



**BASF CORPORATION**  
*FREEPORT, TEXAS*

**HAZARDOUS WASTE COMBUSTOR  
NATIONAL EMISSION STANDARDS FOR  
HAZARDOUS AIR POLLUTANTS**

**INFORMATION COLLECTION REQUEST  
TEST REPORT  
FOR INCINERATOR IN-701**

**SEPTEMBER 2024**

*Coterie* ENVIRONMENTAL

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## 1.0 INTRODUCTION

This test report is being submitted by BASF Corporation (BASF) for a hazardous waste incinerator located at BASF's Freeport, Texas, facility. This unit is designated as Incinerator IN-701. An emission test was performed for Incinerator IN-701 in response to United States Environmental Protection Agency's (USEPA's) Clean Air Act Section 114 Information Collection Request (ICR), dated January 31, 2024, for the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Hazardous Waste Combustors (HWCs) codified in Title 40 Code of Federal Regulations (CFR) Part 63 Subpart EEE.

This report describes the testing that was conducted for the purpose of collecting data on hazardous air pollutants (HAPs).

### 1.1 FACILITY OVERVIEW

The BASF Freeport facility produces organic chemicals for use in various commercial industries. The BASF Freeport facility is considered a major stationary source of HAPs as defined in Section 112(a) of the Clean Air Act as amended November 15, 1990.

The location and identification numbers of the BASF Freeport site are:

BASF Corporation  
602 Copper Road  
Freeport, Texas 77541  
Latitude: 29.00269, Longitude: -95.39355  
EPA ID No. TXD 008 081 697  
EPA Facility Registry Service (FRS) No. 110000463392  
Standard Industrial Classification (SIC) 2869  
North American Industry Classification System (NAICS) 325199

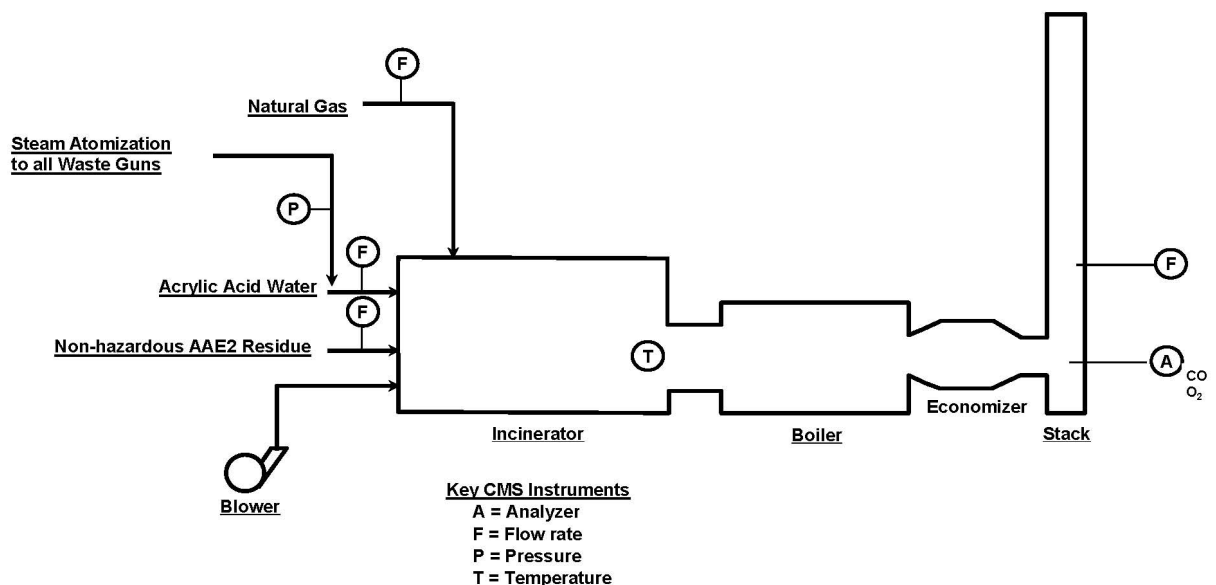
All correspondence should be directed to the following facility contact:

Justin Matthews  
Sr. Environmental Specialist  
BASF Corporation  
602 Copper Road  
Freeport, Texas 77541  
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## 1.2 HAZARDOUS WASTE COMBUSTOR OVERVIEW

Incinerator IN-701 is a liquid injection incinerator. The incinerator is a horizontal, cylindrical, self-supporting unit designed for forced draft operation and has a design thermal capacity of 100 million British thermal units per hour (MMBtu/hr). The incinerator is equipped with heat recovery for steam production. There is no air pollution control equipment installed on the unit. Incinerator IN-701 is fired on a mixture of natural gas, process vent gas, liquid hazardous waste, and liquid non-hazardous waste. The liquid hazardous waste fired in Incinerator IN-701 is identified as acrylic acid water. The liquid non-hazardous waste is identified as AA-E2 residue. The Source Classification Code (SCC) for Incinerator IN-701 is 50300503 (waste disposal, solid waste disposal – industrial, incineration, hazardous waste incinerators: liquid injection). Figure 1-1 provides a general process schematic of Incinerator IN-701.

**FIGURE 1-1  
INCINERATOR IN-701 SCHEMATIC**



## 1.3 TEST OVERVIEW

This emission test was designed to provide the information requested in USEPA's ICR. One test condition was performed for the incinerator. The test condition consisted of seven replicate test runs. Incinerator IN-701 was operated in a normal and representative manner during the emission test (*i.e.*, in a manner consistent with the incinerator's current operating parameter limits (OPLs)).

The ICR required emission testing for the following pollutants:

- Polycyclic aromatic hydrocarbons (PAH);
- Polychlorinated biphenyls (PCB);
- Hydrocarbons (HC);
- Hydrogen fluoride (HF);

- 
- Hydrogen bromide (HBr); and
  - Hydrogen cyanide.

Feedstream (both hazardous and non-hazardous) analyses were also required for higher heating value and fluorine and bromine contents for each test run.

BASF submitted a request to USEPA to waive the emission testing requirements for HF and HBr. In addition, BASF requested to waive the feedstream analytical requirements for fluorine and bromine contents. These waivers were requested because BASF does not use any fluorinated or brominated compounds in any of the processes that generate the incinerator feedstreams. Therefore, the feedstreams should not contain any fluorine or bromine. In a response dated March 12, 2024, USEPA approved the waiver requests. Therefore, this emission test did not include stack gas sampling for HF and HBr and did not include feedstream analyses for fluorine and bromine contents.

The emission test was coordinated by BASF personnel, who provided oversight of the incinerator operations and the stack sampling activities during the test program. Coterie Environmental LLC (Coterie) was responsible for the test report development. Alliance Technical Group, LLC, (ATG) developed the test plan and performed the stack sampling for the test program. ATG was responsible for all stack gas and liquid waste samples collected during the test program, with oversight by BASF and Coterie. The stack gas and liquid waste samples were sent to Eurofins Knoxville (Eurofins) for analysis.

## 1.4 TEST REPORT ORGANIZATION

This report has been prepared following Enclosure 1 of USEPA's ICR. The remaining sections of the report provide the following information:

- Section 2.0 presents a description of the operating conditions;
- Section 3.0 presents a summary of the sampling procedures;
- Section 4.0 presents a summary of the analytical procedures;
- Section 5.0 presents a summary of the feedstream analyses;
- Section 6.0 presents a summary of the stack gas results;
- Appendix A contains the site-specific test plan;
- Appendix B contains the process monitoring data;
- Appendix C contains the liquid waste sampling report;
- Appendix D contains the ATG report entitled *Source Test Report, BASF Corporation, Incinerator IN-701* (Report Number AST-2024-2250);
- Appendix E contains the analytical data packages; and
- Appendix F provides the analytical data assessment forms.

## 2.0 OPERATING CONDITIONS

This emission test was designed to provide the information requested in USEPA's ICR. The program consisted of one test condition. The test condition consisted of seven replicate test runs. The test condition was designed to demonstrate operations of Incinerator IN-701 in a normal and representative manner. The target conditions were set near the 2022 comprehensive performance test (CPT) targets.

### 2.1 COMBUSTION CHAMBER TEMPERATURE

BASF continuously monitors the combustion chamber temperature to demonstrate compliance with the minimum combustion chamber temperature OPL. Combustion chamber temperature is monitored in degrees Celsius (°C).

### 2.2 STACK GAS FLOW RATE

BASF continuously monitors the stack gas flow rate to demonstrate compliance with the maximum stack gas flow rate OPL. The stack gas flow rate is monitored in thousand actual cubic feet per minute (kacfm).

### 2.3 TOTAL HAZARDOUS WASTE FEED RATE

BASF continuously monitors the total hazardous waste feed rate to demonstrate compliance with the maximum total hazardous waste feed rate OPL. The total hazardous waste feed rate is monitored in thousand pounds per hour (klb/hr). The acrylic acid water is the only liquid hazardous waste fired in Incinerator IN-701.

### 2.4 AA-E2 RESIDUE FEED RATE

Non-hazardous AA-E2 residue is also fed to the incinerator. The AA-E2 residue feed rate is monitored in pounds per hour (lb/hr).

### 2.5 NATURAL GAS FEED RATE

Pipeline quality natural gas is used as the main fuel for Incinerator IN-701. BASF continuously monitors the natural gas feed rate for plant operations. This monitoring is not required by the HWC NESHAP. The natural gas feed rate is monitored in thousand standard cubic feet per minute (kscfm).

### 2.6 PROCESS VENT GAS FEED RATE

Non-hazardous process vent gas is also fed to the incinerator. BASF continuously monitors the process vent gas feed rate for plant operations. This monitoring is not required by the HWC NESHAP. The process vent gas is monitored in standard cubic feet per minute (scfm).

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## 2.7 ATOMIZING FLUID PRESSURE

BASF continuously monitors the atomizing fluid pressure to demonstrate compliance with the minimum atomizing fluid pressure OPL. The atomizing fluid pressure is monitored in pounds per square inch gauge (psig).

## 2.8 TEST LOG

The emission test was conducted during the weeks of May 13 and May 20, 2024. Short summaries of the daily test activities are provided below.

*Monday, May 13, 2024* – The test team arrived onsite to setup equipment for testing.

*Tuesday, May 14, 2024* – No testing was performed.

*Wednesday, May 15, 2024* – The incinerator was operating at target conditions at 7:00 a.m. Run 1 began at 9:13 a.m. and ended at 1:21 p.m. Run 2 began at 2:02 p.m. and ended at 6:07 p.m. There were no disruptions during the test runs.

*Thursday, May 16, 2024* – The incinerator was operating at target conditions at 7:00 a.m. Run 3 began at 7:06 a.m. and ended at 11:10 a.m. Run 4 began at 11:40 a.m. and ended at 3:45 p.m. There were no disruptions during the test runs.

*Friday, May 17, 2024* – The incinerator was operating at target conditions at 7:00 a.m. Run 5 began at 7:00 a.m. and ended at 11:25 a.m. Run 6 began at 11:38 a.m. and ended at 3:43 p.m. There were no disruptions during the test runs.

*Monday, May 20, 2024* – The incinerator was operating at target conditions at 7:00 a.m. Run 7 began at 10:55 a.m. and ended at 3:01 p.m. There were no disruptions during the test run. The test team broke down the equipment, packed all samples, and left the site. All testing for the ICR was completed.

## 2.9 OPERATING DATA SUMMARY

Table 2-1 summarizes the operating conditions. The table compares the actual values achieved during the test to the targets provided in the site-specific test plan. The site-specific test plan is provided in Appendix A. The one-minute data recorded for the operating parameters is provided in Appendix B. The table presents the minimum, maximum, and average values for each test run and the average of the test run averages.

**TABLE 2-1**  
**OPERATING CONDITIONS**

OPERATING PARAMETER	UNITS	TARGETS	STATISTICS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Combustion chamber temperature	°C	880	Average	881	881	881	881	881	881	881	881
			Minimum	878	878	877	877	878	879	877	
			Maximum	884	884	884	884	884	884	884	
Stack gas flow rate	kacfm	85	Average	85.5	85.7	85.4	85.1	85.0	85.0	84.8	85.2
			Minimum	80.5	81.1	82.0	81.2	81.8	81.6	81.4	
			Maximum	89.5	89.3	88.9	89.0	89.3	89.4	88.3	
Total hazardous waste feed rate	klb/hr	13.0	Average	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
			Minimum	12.6	12.7	12.7	12.7	12.7	12.7	12.7	
			Maximum	13.4	13.5	13.5	13.4	13.4	13.5	13.4	
AA-E2 residue feed rate	lb/hr	1,000	Average	1,001	1,002	996	1,005	998	1,002	997	1,000
			Minimum	967	978	920	976	974	968	918	
			Maximum	1,090	1,086	1,081	1,098	1,107	1,103	1,087	
Natural gas feed rate	scfm	---	Average	1,285	1,281	1,255	1,261	1,234	1,242	1,280	1,263
			Minimum	1,262	1,258	1,236	1,245	1,212	1,223	1,255	
			Maximum	1,300	1,296	1,276	1,277	1,255	1,258	1,308	
Process vent gas feed rate	scfm	---	Average	19,482	19,499	19,298	19,178	19,277	19,222	19,209	19,309
			Minimum	18,623	18,905	18,440	18,251	18,414	18,444	18,391	
			Maximum	20,140	20,248	20,127	19,821	19,992	19,971	19,926	
Atomizing fluid pressure	psig	---	Average	129	129	129	129	130	130	129	129
			Minimum	129	128	129	128	129	129	128	
			Maximum	130	130	130	130	131	131	130	

## 3.0 SAMPLING PROCEDURES

Sampling was performed during the emission test to satisfy the requirements of the ICR. This section provides descriptions of the liquid waste and stack gas sampling procedures that were performed during the test.

### 3.1 LIQUID WASTE SAMPLING

BASF fed hazardous and non-hazardous liquid wastes to Incinerator IN-701 during the test. The hazardous waste is identified as acrylic acid water, and the non-hazardous waste is identified as AA-E2 residue. Samples of each liquid waste were collected during each run. The sampling methods were standard methods; therefore, only brief descriptions are provided. More detailed descriptions on the sampling methods can be found in the indicated reference documents and in the site-specific test plan. The liquid waste sampling report is provided in Appendix C.

Samples were collected at the beginning, middle, and end of each test run. At each sampling event, approximately 150 milliliters (mL) of each liquid waste was collected into two separate bottles. At the end of the run, each bottle had approximately 450 mL of sample. For each liquid waste, one sample was sent to the laboratory for analysis, and one sample was sent to the laboratory as a backup.

### 3.2 PROCESS VENT GAS SAMPLING

The process vent gas was fed to Incinerator IN-701 during the test. The process vent gas was not sampled during the test. Process vent gas characterization information is provided in Section 5.2.

### 3.3 NATURAL GAS SAMPLING

Natural gas was fed to Incinerator IN-701 during the test. The natural gas was not sampled during the test. The natural gas is not expected to contain any regulated constituents in greater than trace quantities.

### 3.4 STACK GAS SAMPLING

Stack gas samples were collected during each run. The stack gas sampling followed the USEPA methods documented in 40 CFR Part 60 Appendix A. More detailed descriptions of the sampling methods can be found in the indicated reference documents and in the site-specific test plan.

The following monitoring and sampling methods were used:

- USEPA Methods 1, 2, 3A, and 4 for determination of stack sampling traverse points, gas flow rate, composition, and moisture content;
- USEPA Method 23 for measurement of PAH and PCB emissions;



- USEPA Method 25A, a portable continuous emissions monitoring systems (CEMS) operated by the stack sampling contractor, to monitor the concentrations of HC in the stack gas;
- USEPA Method 320 for measurement of hydrogen cyanide emissions; and
- The facility's CEMS to monitor the concentrations of carbon monoxide (CO) and oxygen in the stack gas.

Table 3-1 summarizes the stack gas sampling that was performed and the resulting samples that were collected. The complete field data and sampling procedures for the testing are described in the ATG report in Appendix D.

**TABLE 3-1**  
**STACK GAS SAMPLING**

SAMPLING METHOD <sup>1</sup>	SAMPLING DURATION	SAMPLES COLLECTED PER RUN
USEPA Method 1	Before test series	Not applicable
USEPA Method 2	With each sampling train	Not applicable
USEPA Method 3A	Duration of each test run	Not applicable
USEPA Method 4	With each sampling train	Impingers weighed onsite
USEPA Method 23	240 minutes	Filter
		Front-half and back-half acetone and toluene rinses
		XAD-2 resin
		Deionized water impingers contents
		Deionized water impingers acetone and toluene rinses
USEPA Method 25A (Portable CEMS)	Duration of each test run	Not applicable
USEPA Method 320	60 minutes	Not applicable
Facility CEMS (USEPA Performance Specification 4B)	Duration of each test run	Not applicable

<sup>1</sup> USEPA Method refers to New Source Performance Standards, Test Methods and Procedures, Appendix A, 40 CFR Part 60. USEPA Performance Specification refers to New Source Performance Standards, Performance Specifications, Appendix B, 40 CFR Part 60.

### 3.4.1 POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS

Seven samples for PAH and PCB were collected according to USEPA Methods 1, 2, 3A, 4, and 23. For each run, samples of 20-minute duration were taken isokinetically at each of the 12 traverse points for a total sampling time of 240 minutes. Data was recorded at five-minute intervals.

The USEPA Method 23 sampling train operated during this test program contained the following components:

- Glass nozzle;
- Heated glass probe maintained between 223 and 273 degrees Fahrenheit (°F);

- 
- Heated quartz filter and Teflon support maintained between 223 and 273°F;
  - One condenser coil;
  - XAD sorbent trap;
  - Impinger 1 – empty;
  - Impinger 2 – 100 mL water;
  - Impinger 3 – 100 mL water;
  - Impinger 4 – empty; and
  - Impinger 5 – 200 to 300 grams silica gel.

All glassware used in the sampling train was cleaned prior to use. Additionally, all glassware connections were sealed with Teflon gaskets.

At the conclusion of each run, the filter and sorbent trap modules were recovered by sealing the openings with ground glass caps and plugs. The impinger contents were recovered in accordance with the procedures specified in USEPA Method 23. The inside surfaces of the nozzle, probe, and connecting glassware prior to the filter and sorbent module were washed with acetone and toluene.

The samples collected using the USEPA Method 23 sampling train were analyzed for PAH and PCB by high-resolution gas chromatography and high resolution mass spectrometry according to the guidelines of USEPA Method 23.

### **3.4.2 HYDROCARBONS**

The procedures outlined in USEPA Method 25A were used to measure the concentration of HC (as propane) in the stack gas during the test. A continuous sample of stack gas was withdrawn via a sample probe. The sample gas was filtered for removal of particulates prior to being sent to the analyzer. All parts of the sampling system and the analyzer were heated to a temperature of at least 250°F. Sampling was concurrent with the USEPA Method 23 testing.

### **3.4.3 HYDROGEN CYANIDE**

The procedures outlined in USEPA Method 320 were used to measure the concentration of hydrogen cyanide in the stack gas during the test. The stack gas was extracted at a constant rate through a heated probe, heated filter, and heated sample line and analyzed with a Fourier transform infrared (FTIR) analyzer. All parts of the sampling system and the analyzer were heated to a temperature of approximately 300°F.

### **3.4.4 CARBON MONOXIDE AND OXYGEN**

The Incinerator IN-701 CEMS were operated during each test run to monitor the concentrations of CO and oxygen in the stack gas. A continuous sample of stack gas is withdrawn via a sample probe. The HWC NESHAP requires that the CO and oxygen CEMS comply with Performance Specification 4B in 40 CFR Part 60 Appendix B.

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### **3.5 SAMPLING QUALITY ASSURANCE AND QUALITY CONTROL**

The site-specific test plan described the sampling activities required for the test program. All sampling was performed in accordance with the site-specific test plan and referenced methods. No sampling deviations occurred during this test program.

### **3.6 SAMPLING DATA SUMMARY**

Tables 3-2 through 3-4 provide summaries of the sampling data for the test runs. Table 3-2 summarizes the sampling data for the USEPA Method 23 sampling train. Table 3-3 summarizes the sampling data for USEPA Method 25A. Table 3-4 summarizes the sampling data for USEPA Method 320.

The tables include data for actual sample volume in cubic feet (ft<sup>3</sup>) and corrected sample volume in dry standard cubic feet (dscf). Stack gas temperature and pressure data are presented in °F and inches of mercury (in. Hg), respectively. Stack gas composition data is presented in percent volume (% vol) or percent volume on a dry basis (% vol dry). Stack gas velocity is presented in feet per second (fps), and stack gas flow rate is presented in actual cubic feet per minute (acfm), standard cubic feet per minute (scfm), and/or dry standard cubic feet per minute (dscfm).

**TABLE 3-2**  
**USEPA METHOD 23 SAMPLING TRAIN OPERATING DATA**

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Date	---	05/15/2024	05/15/2024	05/16/2024	05/16/2024	05/17/2024	05/17/2024	05/20/2024	---
Start time	---	09:13	14:02	07:06	11:40	07:00	11:38	10:55	---
Stop time	---	13:21	18:07	11:10	15:45	11:05	15:43	15:01	---
Sampling duration	minutes	240	240	240	240	240	240	240	240
Actual sample volume	ft <sup>3</sup>	176.399	145.525	145.395	144.669	149.17	150.1	159.467	152.961
Corrected sample volume	dscf	172.953	142.504	142.825	142.096	147.108	146.172	154.993	149.807
Stack temperature	°F	638.2	636.6	636.7	636.4	634.6	634.7	636.3	636.2
Stack pressure	in. Hg	29.75	29.70	29.70	29.70	29.76	29.76	29.77	29.73
Moisture content	% vol	21.4	21.1	22.0	22.2	21.4	21.3	22.1	21.6
Carbon dioxide	% vol dry	7.60	7.55	7.62	7.61	7.62	7.59	7.58	7.60
Oxygen	% vol dry	1.87	1.85	1.74	1.68	1.70	1.70	1.69	1.75
Stack gas velocity	fps	52	50.3	50.6	50.3	48.6	49.2	50.4	50.2
Stack gas flow rate	acfm	120,194	116,212	117,057	116,280	112,246	113,708	116,503	116,029
Stack gas flow rate	scfm	35,237	35,237	35,237	35,237	35,237	35,237	35,237	35,237
Stack gas flow rate	dscfm	45,172	43,842	43,612	43,261	42,308	42,922	43,505	43,517
Percent isokinetic	%	102.8	99.5	100.2	100.5	99.9	97.8	102.3	100.4

**TABLE 3-3**  
**USEPA METHOD 25A SAMPLING DATA**

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Date	---	05/15/2024	05/15/2024	05/16/2024	05/16/2024	05/17/2024	05/17/2024	05/20/2024	---
Start time	---	09:13	14:02	07:06	11:40	07:00	11:38	10:55	---
Stop time	---	13:21	18:07	11:10	15:45	11:05	15:43	15:00	---
Sampling duration	min	240	240	240	240	240	240	240	240
Moisture content	% vol	21.4	21.1	22.0	22.2	21.4	21.3	22.1	21.6
Oxygen	% vol dry	1.87	1.85	1.74	1.68	1.70	1.70	1.69	1.75
Stack gas flow rate	dscfm	45,172	43,842	43,612	43,261	42,308	42,922	43,505	43,517

**TABLE 3-4**  
**USEPA METHOD 320 SAMPLING DATA**

PARAMETER	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Date	---	05/15/2024	05/15/2024	05/16/2024	05/16/2024	05/17/2024	05/17/2024	05/20/2024	---
Start time	---	09:13	14:02	07:06	11:40	07:00	11:38	10:55	---
Stop time	---	13:21	18:07	11:10	15:45	11:05	15:43	15:00	---
Sampling duration	min	240	240	240	240	240	240	240	240
Moisture content	% vol	21.4	21.1	22.0	22.2	21.4	21.3	22.1	21.6
Oxygen	% vol dry	1.87	1.85	1.74	1.68	1.70	1.70	1.69	1.75
Stack gas flow rate	dscfm	45,172	43,842	43,612	43,261	42,308	42,922	43,505	43,517

## 4.0 ANALYTICAL PROCEDURES

The analyses followed ASTM International (ASTM) and USEPA methods. This section describes the analyses and discusses any deviations in analytical procedures from those described in the site-specific test plan. The analytical data packages are provided in Appendix E.

### 4.1 LIQUID WASTE ANALYSES

All liquid waste samples were sent to Eurofins for analysis. Samples of the liquid wastes were analyzed for higher heating value using ASTM Method D240. All holding times for these analyses were met, and all quality assurance (QA) and quality control (QC) criteria for these analyses were within acceptance limits.

### 4.2 PROCESS VENT GAS ANALYSES

The process vent gas was not analyzed for the test. Process knowledge is used to characterize the process vent gas. Process vent gas characterization information is provided in Section 5.2.

### 4.3 NATURAL GAS ANALYSES

The natural gas was not analyzed for the test. The natural gas is not expected to contain any regulated constituents in greater than trace quantities.

### 4.4 STACK GAS ANALYSES

The stack gas samples were analyzed for PAH and PCB by high-resolution gas chromatography and high resolution mass spectrometry according to the guidelines of USEPA Method 23. The USEPA Method 23 samples were sent to Eurofins for analysis. In addition, USEPA Method 25A was used to monitor the stack gas for HC concentrations, and USEPA Method 320 (FTIR) was used to monitor the stack gas for hydrogen cyanide concentrations. All holding times for the USEPA Method 23 analyses were met, and all QA/QC criteria for the methods were within acceptable limits, except as noted in Section 4.5.

### 4.5 ANALYTICAL QUALITY ASSURANCE AND QUALITY CONTROL

Prior to testing, BASF and the contract laboratory established QA/QC goals for each analysis that would be performed as part of the test program. QA/QC objectives included precision, accuracy, representativeness, comparability, and completeness. Typical parameters include laboratory control sample (LCS) and LCS duplicate (LCSD) samples, field and sample duplicates, surrogates, standards, and spikes. Precision is expressed in terms of the distribution, or scatter, of replicate measurement results, calculated as the relative standard deviation (RSD) or, for duplicates, as relative percent difference

(RPD). Accuracy is expressed in terms of percent recovery (*e.g.*, for surrogates, spikes, and reference material).

Tables 4-1 through 4-4 provide details on the QA/QC results. Detailed descriptions of the evaluations are included in the analytical data packages provided in Appendix E and the analytical data assessment forms provided in Appendix F.

**TABLE 4-1**  
**SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL**  
**LIQUID WASTE SAMPLES – HIGHER HEATING VALUE**

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Precision	Field duplicate	One per test program	≤20% relative percent difference	None
	Laboratory control sample duplicate	One per analytical batch	≤2% relative percent difference	None
	Sample duplicate	One per analytical batch	≤10% relative percent difference	None
Accuracy	Laboratory control samples	Two per analytical batch	98-102% recovery	None
Calibration	Initial Calibration	Before analysis and as needed	≤1% relative standard deviation	None
	Calibration checks	As needed	±1% difference from initial calibration	None
Contamination effects	None	---	---	---
Handling and traceability	Holding time	Each sample	<180 days	None

**TABLE 4-2**  
**SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL**  
**STACK GAS – POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS**

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Precision	Laboratory control sample duplicate	One per analytical batch	≤50% relative percent difference	None
Accuracy	Laboratory control samples	Two per analytical batch	70-130% recovery	The recovery of 2,2',5-trichlorobiphenyl (PCB-18) in the laboratory control sample was outside of limits.
	Internal standards (isotope dilution)	Every sample	20-130% recovery for polycyclic aromatic hydrocarbons 20-145% recovery for polychlorinated biphenyls	Some recoveries for polycyclic aromatic hydrocarbons in the Run 7 sample were outside of limits.
	Surrogate standards	Every sample	70-130% recovery	Recoveries for polycyclic aromatic hydrocarbon surrogates in several run samples were outside of limits.  The Run 4 sample was diluted so that no recoveries could be reported for polycyclic aromatic hydrocarbon surrogates.
Calibration	Initial calibration (five solutions)	Prior to sample analysis	1. Mean relative response factor for unlabeled standards: <10% relative standard deviation 2. Mean relative response factor for labeled reference compounds: <20% relative standard deviation	None



**TABLE 4-2 (CONTINUED)**  
**SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL**  
**STACK GAS – POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS**

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Calibration (continued)	Calibration verification (midlevel standard)	At least once per shift	1. Response factors within $\pm 25\%$ of the initial calibration mean relative response factor for unlabeled standards 2. Response factors within $\pm 25\%$ of the initial calibration mean relative response factor for pre-sampling adsorbent standard and pre-extraction filter recovery standard 3. Response factors within $\pm 30\%$ of the initial calibration mean relative response factor for pre-extraction standard and alternative recovery standard	The opening continuing calibration verifications (140-88812/1, 140-88831/1, and 140-88872/1) were slightly outside QC limits for one or more isotope dilution analyte recoveries.
	Retention time window verification and gas chromatograph column performance	At the beginning of each shift	Compliance with USEPA Method 23	None
Contamination effects	Method blank	One per analytical batch	<Reporting limit	Phenanthrene was reported in the method blank for Batch 88561 at a concentration above the reporting limit.
	Field proof blank	One per test program	<Reporting limit	Several polycyclic aromatic hydrocarbons were reported in the field proof blank at concentrations above the reporting limit.
Handling and traceability	Holding time	Each sample	1. <30 days to extraction 2. <40 days from extraction to analysis <sup>1</sup>	None

<sup>1</sup> Holding time from extraction may be up to one year if samples are stored below -10°C.

**TABLE 4-3**  
**SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL**  
**STACK GAS – HYDROCARBONS**

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Calibration error test	Checked using USEPA Protocol 1 calibration gases	Prior to the first test run and after any failed drift test	±5% of calibration gas value	None
Drift test	Checked using USEPA Protocol 1 calibration gases	After the last test run and hourly during the test period	±3% of span value	None

**TABLE 4-4**  
**SUMMARY OF QUALITY ASSURANCE/QUALITY CONTROL**  
**STACK GAS – HYDROGEN CYANIDE**

QUALITY CONTROL CHECK		FREQUENCY	ACCEPTANCE CRITERIA	NOTED DEVIATIONS
Calibration transfer standard direct	Verify stability, confirm optical path length	Pre-test	±5% of cert value	None
Calibration transfer standard responses	Verify system stability, recovery, and response time	Pre and post-test run	±5% of mean value	None
Analyte spike	Verify system ability to quantify the analyte of interest in the gas stream	Pre-test	±30% theoretical recovery	None

Table 4-5 summarizes the analytical deviations and provides discussions of the impact that the deviations had on the analytical results, if any.

**TABLE 4-5**  
**SUMMARY OF ANALYTICAL DEVIATIONS**

RUN	DEVIATION/EXCEPTION	SIGNIFICANCE
<b>Liquid waste analyses:</b>		
None	None	None
<b>Stack gas analyses:</b>		
All	The recovery of 2,2',5-trichlorobiphenyl (PCB-18) in the laboratory control sample was outside of limits. The recovery was 144 percent, which is above the upper limit of 130 percent.	The recovery was slightly above the limit indicating a potential high bias. However, recovery in the laboratory control sample duplicate was within limits, indicating that the analysis was in control. Results for the test samples for this congener were all less than the reporting limit. Therefore, this deviations had minimal impact on the results.
7	The recoveries for 13C6-indeno(1,2,3-cd)pyrene and 13C6-dibenz(a,h)anthracene in the Run 7 sample were outside of limits. The recoveries were 14 and 10 percent, respectively, which is below the lower limit of 20 percent.	Generally, data quality is not considered affected if the signal-to-noise ratio is greater than 10:1, which was achieved for all isotope dilution analytes in the sample.
1,2,3,6,7,8	The recoveries for 13C6-benzo(c)fluorene, 13C12-benzo(j)fluoranthene, and anthracene-d10 surrogates in several run samples were outside of limits. The recoveries were all below the lower limit of 70 percent.	Generally, data quality is not considered affected if the signal-to-noise ratio is greater than 10:1, which was achieved for all isotope dilution analytes in the sample.
4	The polycyclic aromatic hydrocarbons surrogate recoveries for the Run 4 sample could not be determined due to the high dilution required to bring analytes within the calibration range.	The Run 4 polycyclic aromatic hydrocarbons results are significantly higher than the other run results. The quality of this data cannot be assessed using surrogate recovery criteria.
1, 2, 3	The response factor for 13C6-indeno(1,2,3-cd)pyrene was outside of the limit in the continuing calibration verification (CCV) for Batch 88812.	Results for Runs 1, 2, and 3 for indeno(1,2,3-cd)pyrene were consistent with other runs. This deviation has minimal impact on the results.
3, 5	The response factors for 13C6-indeno(1,2,3-cd)pyrene and 13C6-dibenz(a,h)anthracene were outside of limits in the CCV for Batch 88831.	Results for Runs 3 and 5 for indeno(1,2,3-cd)pyrene and dibenz(a,h)anthracene were consistent with other runs. This deviation has minimal impact on the results.
All	The response factors for 13C6-indeno(1,2,3-cd)pyrene and 13C6-dibenz(a,h)anthracene were outside of limits in the CCV for Batch 88872. This batch included the field proof blank sample.	Results for the field proof blank for indeno(1,2,3-cd)pyrene and dibenz(a,h)anthracene were slightly above the reporting limit. This deviation indicates a potential high bias for these analytes.
All	Phenanthrene was reported in the method blank for Batch 88561 at a concentration above the reporting limit. The reported concentration was 20.04 nanograms per sample (ng/sample), and the reporting limit was 6.00 ng/sample.	The results for phenanthrene may exhibit a slight high bias. Sample results for phenanthrene were much higher than the amount found in the method blank. Therefore, this deviation has minimal impact on the results.

**TABLE 4-5 (CONTINUED)**  
**SUMMARY OF ANALYTICAL DEVIATIONS**

RUN	DEVIATION/EXCEPTION	SIGNIFICANCE	
All	Several polycyclic aromatic hydrocarbons were reported in the field proof blank at concentrations above the reporting limit.		The results for these polycyclic aromatic hydrocarbons may exhibit a high bias.
	<i>Analyte</i>	<i>Result ng/sample</i>	
		<i>Reporting Limit ng/sample</i>	
	Acenaphthene	1,380	
	Benzo[a]pyrene	71	
	Benzo[g,h,i]perylene	1,110	
	Benzo[k]fluoranthene	76	
	Chrysene	76	
	Dibenz[a,h]anthracene	121	
	Fluoranthene	320	
	Fluorene	774	
	Indeno[1,2,3-cd]pyrene	93	
	2-Methylnaphthalene	4,430	
	Naphthalene	6,750	
	Phenanthrene	1,140	
	Pyrene	280	

## 5.0 FEEDSTREAM RESULTS

Acrylic acid water, AA-E2 residue, process vent gas, and natural gas were fed to Incinerator IN-701 during each test run. This section of the report presents the results of feedstream analyses.

### 5.1 ACRYLIC ACID WATER

The liquid hazardous waste fired in Incinerator IN-701 is identified as acrylic acid water. The acrylic acid water was fed to the incinerator during the testing. Table 5-1 presents the higher heating value of the acrylic acid water for each test run. The higher heating value is provided in British thermal units per pound (Btu/lb).

**TABLE 5-1**  
**ACRYLIC ACID WATER**

RUN	HIGHER HEATING VALUE (BTU/LB)
1	<339
2	449
3	628
4	<342
5	398
6	351
7	1,300
Average	<696

### 5.2 AA-E2 RESIDUE

The liquid non-hazardous waste is identified as AA-E2 residue. The AA-E2 residue was fed to the incinerator during the testing. Table 5-2 presents the higher heating value of the AA-E2 residue for each test run. The higher heating value is provided in Btu/lb.

**TABLE 5-2  
AA-E2 RESIDUE**

RUN	HIGHER HEATING VALUE (BTU/LB)
1	11,900
2	11,800
3	11,800
4	11,700
5	11,700
6	11,600
7	11,100
Average	11,600

### 5.3 PROCESS VENT GAS

Non-hazardous process vent gas was fed to the incinerator during the testing. These process vent gases are identified as the AA-E2 off-gas, the vacuum vent off-gas, and the nitrogen vent off-gas. The process vent gas is predominantly nitrogen with some organic content. The process vent gas is not expected to contain any HWC NESHAP regulated metals or chlorine in greater than trace quantities. Table 5-3 presents typical compositions in percent by weight (% wt) for the process vent gas.

**TABLE 5-3  
PROCESS VENT GAS**

COMPONENT	UNITS	AA-E2 OFF-GAS	VACUUM VENT OFF-GAS	NITROGEN VENT OFF-GAS
Acetic acid	% wt	0.6	0.2	---
Acrolein	% wt	0.1	---	---
Acrylic acid	% wt	0.3	2.8	---
Biphenyl	% wt	0.01	---	7.6
Dimethyl phthalate	% wt	---	---	1.8
Formaldehyde	% wt	0.4	---	---
Propane	% wt	0.8	---	---
Propylene	% wt	0.3	---	---
Carbon dioxide	% wt	3.0	0.1	---
Carbon monoxide	% wt	0.9	---	---
Water	% wt	7.8	0.2	0.6
Oxygen	% wt	3.8	22.5	1.0
Nitrogen	% wt	82	74.2	89

---

## 5.4 NATURAL GAS

Natural gas was also fed during the testing. The natural gas is not expected to contain any HWC NESHA regulated constituents in greater than trace quantities. BASF has an agreement with the supplier that regulates the content of the natural gas. The following requirements are included in the agreement:

- The gas shall contain no CO, halogens, or unsaturated hydrocarbons and not more than four hundred parts per million of hydrogen.
- The gas shall be commercially free from gum, gum-forming constituents, or other objectionable liquid or solid matter which might become separated from the gas during transmission through pipelines.
- The gas shall be free of all corrosive materials that may, in Transporter's determination, be harmful to its facilities.

Any natural gas that meets these requirements will not contain any HWC NESHA regulated constituents.

## 6.0 STACK GAS RESULTS

The emission test was designed to provide the information requested in USEPA's ICR. One test condition was performed for the incinerator. The test condition consisted of seven replicate test runs. The ICR emission testing included the following pollutants:

- PAH;
- PCB;
- HC;
- Hydrogen cyanide; and
- CO

The stack gas emission results are discussed below and summarized in the tables in Section 6.5. The ATG stack sampling report is provided in Appendix D. All analytical data packages are included in Appendix E.

### 6.1 POLYCYCLIC AROMATIC HYDROCARBONS AND POLYCHLORINATED BIPHENYLS EMISSION RESULTS

USEPA Method 23 was used to sample and analyze the stack gas for PAH and PCB concentrations. Analytes that were reported as non-detect in any sample fraction were calculated using the method detection limits (MDLs) and are reported with a "<" sign.

### 6.2 HYDROCARBONS EMISSION RESULTS

USEPA Method 25A was used to monitor the stack gas for HC concentrations. The results were calculated assuming all non-detects were present at the reporting limit (RL) and are reported with a "<" sign.

### 6.3 HYDROGEN CYANIDE EMISSION RESULTS

USEPA Method 320 was used to monitor the stack gas for hydrogen cyanide concentrations. The results were calculated assuming all non-detects were present at the MDL and are reported with a "<" sign.

### 6.4 CARBON MONOXIDE

The Incinerator IN-701 CEMS were operated during the emission test to monitor the concentrations of CO and oxygen in the stack gas. The data presented for CO is based on hourly rolling average (HRA) values; the data presented for oxygen is based on one-minute average readings. The one-minute data recorded is provided in Appendix B.



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## 6.5 STACK GAS RESULTS SUMMARY

Tables 6-1 through 6-5 provide summaries of the stack gas results.

Table 6-1 summarizes the PAH results. Results are presented in nanograms (ng) for the total sample train catch. Emission results are presented in nanograms per dry standard cubic meter (ng/dscm) uncorrected and corrected to seven percent oxygen and lb/hr.

Table 6-2 summarizes the PCB results. Results are presented in ng for the total sample train catch. Emission results are presented in ng/dscm uncorrected and corrected to seven percent oxygen and lb/hr.

Table 6-3 summarizes the HC results. Emission results are reported as propane and are presented in parts per million by volume on a dry basis (ppmv dry) uncorrected and corrected to seven percent oxygen and lb/hr.

Table 6-4 summarizes the hydrogen cyanide results. Emission results are presented in ppmv dry uncorrected and corrected to seven percent oxygen and lb/hr.

Table 6-5 summarizes the CO and oxygen results. The CO emission results are presented in ppmv dry corrected to seven percent oxygen, and the oxygen results are presented in % vol dry.

**TABLE 6-1**  
**POLYCYCLIC AROMATIC HYDROCARBONS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Acenaphthene	ng	85.5	103	1,390	3,180	118	82.2	41.1	714
	ng/dscm	1.75E+01	2.55E+01	3.44E+02	7.90E+02	2.83E+01	1.99E+01	9.36E+00	1.76E+02
	ng/dscm <sup>1</sup>	1.28E+01	1.86E+01	2.49E+02	5.72E+02	2.05E+01	1.44E+01	6.78E+00	1.28E+02
	lb/hr	2.95E-06	4.19E-06	5.61E-05	1.28E-04	4.49E-06	3.19E-06	1.53E-06	2.87E-05
Acenaphthylene	ng	24.5	12.2	196	564	101	42.7	14.2	136
	ng/dscm	5.00E+00	3.02E+00	4.85E+01	1.40E+02	2.42E+01	1.03E+01	3.24E+00	3.35E+01
	ng/dscm <sup>1</sup>	3.65E+00	2.21E+00	3.52E+01	1.01E+02	1.76E+01	7.47E+00	2.34E+00	2.43E+01
	lb/hr	8.46E-07	4.97E-07	7.92E-06	2.27E-05	3.84E-06	1.66E-06	5.27E-07	5.43E-06
Anthracene	ng	45.1	54.6	2,410	7,880	640	60.0	23.4	1,588
	ng/dscm	9.21E+00	1.35E+01	5.96E+02	1.96E+03	1.54E+02	1.45E+01	5.33E+00	3.93E+02
	ng/dscm <sup>1</sup>	6.73E+00	9.87E+00	4.32E+02	1.42E+03	1.11E+02	1.05E+01	3.86E+00	2.84E+02
	lb/hr	1.56E-06	2.22E-06	9.73E-05	3.17E-04	2.43E-05	2.33E-06	8.69E-07	6.37E-05
Benz[a]anthracene	ng	3.64	3.24	371	4,370	235	62.3	<3.00	<721
	ng/dscm	7.43E-01	8.03E-01	9.17E+01	1.09E+03	5.64E+01	1.51E+01	<6.84E-01	<1.79E+02
	ng/dscm <sup>1</sup>	5.43E-01	5.86E-01	6.65E+01	7.85E+02	4.08E+01	1.09E+01	<4.95E-01	<1.29E+02
	lb/hr	1.56E-06	2.22E-06	9.73E-05	3.17E-04	2.43E-05	2.33E-06	<8.69E-07	<6.37E-05
Benzo[b]fluoranthene	ng	15.9	4.71	49.6	1,200	187	67.4	22.6	221
	ng/dscm	3.25E+00	1.17E+00	1.23E+01	2.98E+02	4.49E+01	1.63E+01	5.15E+00	5.45E+01
	ng/dscm <sup>1</sup>	2.37E+00	8.52E-01	8.90E+00	2.16E+02	3.25E+01	1.18E+01	3.73E+00	3.94E+01
	lb/hr	5.49E-07	1.92E-07	2.00E-06	4.83E-05	7.11E-06	2.62E-06	8.39E-07	8.81E-06

**TABLE 6-1 (CONTINUED)**  
**POLYCYCLIC AROMATIC HYDROCARBONS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Benzo[k]fluoranthene	ng	3.78	1.36	13.1	290	<3.00	32.5	4.31	<49.7
	ng/dscm	7.72E-01	3.37E-01	3.24E+00	7.21E+01	<7.20E-01	7.85E+00	9.82E-01	<1.23E+01
	ng/dscm <sup>1</sup>	5.64E-01	2.46E-01	2.35E+00	5.21E+01	<5.21E-01	5.68E+00	7.11E-01	<8.89E+00
	lb/hr	1.31E-07	5.53E-08	5.29E-07	1.17E-05	<1.14E-07	1.26E-06	1.60E-07	<1.99E-06
Benzo[g,h,i]perylene	ng	115	19.2	34.1	381	67.3	83.6	78.2	111
	ng/dscm	2.35E+01	4.76E+00	8.43E+00	9.47E+01	1.62E+01	2.02E+01	1.78E+01	2.65E+01
	ng/dscm <sup>1</sup>	1.72E+01	3.47E+00	6.12E+00	6.85E+01	1.17E+01	1.46E+01	1.29E+01	1.92E+01
	lb/hr	3.97E-06	7.81E-07	1.38E-06	1.53E-05	2.56E-06	3.25E-06	2.90E-06	4.31E-06
Benzo[a]pyrene	ng	4.66	2.58	33.8	938	<3.00	35.3	12.0	<147
	ng/dscm	9.52E-01	6.39E-01	8.36E+00	2.33E+02	<7.20E-01	8.53E+00	2.73E+00	<3.64E+01
	ng/dscm <sup>1</sup>	6.95E-01	4.67E-01	6.06E+00	1.69E+02	<5.21E-01	6.17E+00	1.98E+00	<2.64E+01
	lb/hr	1.61E-07	1.05E-07	1.37E-06	3.78E-05	<1.14E-07	1.37E-06	4.46E-07	<5.91E-06
Benzo[e]pyrene	ng	69.1	12.3	91.5	2,100	376	124	34.6	401
	ng/dscm	1.41E+01	3.05E+00	2.26E+01	5.22E+02	9.03E+01	3.00E+01	7.88E+00	9.85E+01
	ng/dscm <sup>1</sup>	1.03E+01	2.22E+00	1.64E+01	3.77E+02	6.53E+01	2.17E+01	5.70E+00	7.13E+01
	lb/hr	2.39E-06	5.01E-07	3.70E-06	8.46E-05	1.43E-05	4.82E-06	1.28E-06	1.59E-05
Chrysene	ng	44.5	20.7	576	7,030	859	482	617	1,376
	ng/dscm	9.09E+00	5.13E+00	1.42E+02	1.75E+03	2.06E+02	1.16E+02	1.41E+02	3.38E+02
	ng/dscm <sup>1</sup>	6.64E+00	3.74E+00	1.03E+02	1.26E+03	1.49E+02	8.43E+01	1.02E+02	2.45E+02
	lb/hr	1.54E-06	8.42E-07	2.33E-05	2.83E-04	3.27E-05	1.87E-05	2.29E-05	5.47E-05
Dibenz[a,h]anthracene	ng	1.06	2.10	11.3	176	115	51.8	<3.00	<51.5
	ng/dscm	2.16E-01	5.20E-01	2.79E+00	4.37E+01	2.76E+01	1.25E+01	<6.84E-01	<1.26E+01
	ng/dscm <sup>1</sup>	1.58E-01	3.80E-01	2.03E+00	3.16E+01	2.00E+01	9.06E+00	<4.95E-01	<9.11E+00
	lb/hr	3.66E-08	8.55E-08	4.56E-07	7.09E-06	4.38E-06	2.01E-06	<1.11E-07	<2.02E-06

**TABLE 6-1 (CONTINUED)**  
**POLYCYCLIC AROMATIC HYDROCARBONS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Fluoranthene	ng	167	77.3	546	3,010	384	103	62.8	621
	ng/dscm	3.41E+01	1.92E+01	1.35E+02	7.48E+02	9.22E+01	2.49E+01	1.43E+01	1.53E+02
	ng/dscm <sup>1</sup>	2.49E+01	1.40E+01	9.79E+01	5.41E+02	6.67E+01	1.80E+01	1.04E+01	1.10E+02
	lb/hr	5.77E-06	3.15E-06	2.21E-05	1.21E-04	1.46E-05	4.00E-06	2.33E-06	2.47E-05
Fluorene	ng	232	235	6,930	21,500	1,310	180	114	4,357
	ng/dscm	4.74E+01	5.82E+01	1.71E+03	5.34E+03	3.14E+02	4.35E+01	2.60E+01	1.08E+03
	ng/dscm <sup>1</sup>	3.46E+01	4.25E+01	1.24E+03	3.86E+03	2.28E+02	3.15E+01	1.88E+01	7.80E+02
	lb/hr	8.02E-06	9.56E-06	2.80E-04	8.66E-04	4.98E-05	6.99E-06	4.23E-06	1.75E-04
Indeno[1,2,3-cd]pyrene	ng	33.6	5.41	24.7	<89.9	172	50.0	120	<70.8
	ng/dscm	6.86E+00	1.34E+00	6.11E+00	<2.23E+01	4.13E+01	1.21E+01	2.73E+01	<1.68E+01
	ng/dscm <sup>1</sup>	5.01E+00	9.78E-01	4.43E+00	<1.62E+01	2.99E+01	8.75E+00	1.98E+01	<1.21E+01
	lb/hr	1.16E-06	2.20E-07	9.98E-07	<3.62E-06	6.54E-06	1.94E-06	4.46E-06	<2.71E-06
2-Methylnaphthalene	ng	771	614	14,000	41,400	7,140	1,390	1,970	9,612
	ng/dscm	1.57E+02	1.52E+02	3.46E+03	1.03E+04	1.71E+03	3.36E+02	4.49E+02	2.37E+03
	ng/dscm <sup>1</sup>	1.15E+02	1.11E+02	2.51E+03	7.44E+03	1.24E+03	2.43E+02	3.25E+02	1.71E+03
	lb/hr	2.66E-05	2.50E-05	5.66E-04	1.67E-03	2.72E-04	5.40E-05	7.31E-05	3.83E-04
Naphthalene	ng	2,190	1,840	24,900	79,400	17,900	25,800	14,900	23,847
	ng/dscm	4.47E+02	4.56E+02	6.16E+03	1.97E+04	4.30E+03	6.23E+03	3.40E+03	5.82E+03
	ng/dscm <sup>1</sup>	3.27E+02	3.33E+02	4.47E+03	1.43E+04	3.11E+03	4.51E+03	2.46E+03	4.21E+03
	lb/hr	7.57E-05	7.49E-05	1.01E-03	3.20E-03	6.81E-04	1.00E-03	5.53E-04	9.42E-04
Perylene	ng	0.631	<3.00	9.82	<89.9	48.1	29.3	71.7	<36.1
	ng/dscm	1.29E-01	<7.43E-01	2.43E+00	<2.23E+01	1.15E+01	7.08E+00	1.63E+01	<8.66E+00
	ng/dscm <sup>1</sup>	9.41E-02	<5.42E-01	1.76E+00	<1.62E+01	8.36E+00	5.12E+00	1.18E+01	<6.27E+00
	lb/hr	2.18E-08	<1.22E-07	3.97E-07	<3.62E-06	1.83E-06	1.14E-06	2.66E-06	<1.40E-06

**TABLE 6-1 (CONTINUED)**  
**POLYCYCLIC AROMATIC HYDROCARBONS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Phenanthrene	ng	1,040	1,100	12,800	45,600	7,510	1,460	624	10,019
	ng/dscm	2.12E+02	2.73E+02	3.17E+03	1.13E+04	1.80E+03	3.53E+02	1.42E+02	2.47E+03
	ng/dscm <sup>1</sup>	1.55E+02	1.99E+02	2.30E+03	8.20E+03	1.31E+03	2.55E+02	1.03E+02	1.79E+03
	lb/hr	3.59E-05	4.48E-05	5.17E-04	1.84E-03	2.86E-04	5.67E-05	2.32E-05	4.00E-04
Pyrene	ng	249	82.0	915	6,210	470	92.3	35.6	1,151
	ng/dscm	5.08E+01	2.03E+01	2.26E+02	1.54E+03	1.13E+02	2.23E+01	8.11E+00	2.83E+02
	ng/dscm <sup>1</sup>	3.71E+01	1.48E+01	1.64E+02	1.12E+03	8.17E+01	1.61E+01	5.87E+00	2.05E+02
	lb/hr	8.60E-06	3.34E-06	3.70E-05	2.50E-04	1.79E-05	3.59E-06	1.32E-06	4.60E-05

<sup>1</sup> Emission results are corrected to seven percent oxygen.

**TABLE 6-2**  
**POLYCHLORINATED BIPHENYLS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,4'-Dichlorobiphenyl (PCB-8)	ng	1.17	1.35	2.21	5.65	1.44	0.857	0.568	1.89
	ng/dscm	2.39E-01	3.35E-01	5.46E-01	1.40E+00	3.46E-01	2.07E-01	1.29E-01	4.58E-01
	ng/dscm <sup>1</sup>	1.74E-01	2.44E-01	3.96E-01	1.02E+00	2.50E-01	1.50E-01	9.36E-02	3.32E-01
	lb/hr	4.04E-08	5.49E-08	8.93E-08	2.28E-07	5.48E-08	3.33E-08	2.11E-08	7.45E-08
2,2',5-Trichlorobiphenyl (PCB-18)	ng	0.360	0.379	1.14	2.21	0.408	0.139	0.0652	0.672
	ng/dscm	7.35E-02	9.39E-02	2.82E-01	5.49E-01	9.79E-02	3.36E-02	1.49E-02	1.64E-01
	ng/dscm <sup>1</sup>	5.37E-02	6.85E-02	2.04E-01	3.97E-01	7.09E-02	2.43E-02	1.07E-02	1.19E-01
	lb/hr	1.24E-08	1.54E-08	4.60E-08	8.90E-08	1.55E-08	5.40E-09	2.42E-09	2.70E-08
2,4,4'-Trichlorobiphenyl (PCB-28)	ng	0.610	0.635	0.725	1.98	0.248	0.140	0.111	0.636
	ng/dscm	1.25E-01	1.57E-01	1.79E-01	4.92E-01	5.95E-02	3.38E-02	2.53E-02	1.53E-01
	ng/dscm <sup>1</sup>	9.10E-02	1.15E-01	1.30E-01	3.56E-01	4.31E-02	2.45E-02	1.83E-02	1.11E-01
	lb/hr	2.11E-08	2.58E-08	2.93E-08	7.97E-08	9.44E-09	5.44E-09	4.12E-09	2.50E-08
2,2',3,5'- Tetrachlorobiphenyl (PCB-44)	ng	2.13	2.69	2.52	7.55	2.20	1.65	0.984	2.82
	ng/dscm	4.35E-01	6.67E-01	6.23E-01	1.88E+00	5.28E-01	3.99E-01	2.24E-01	6.79E-01
	ng/dscm <sup>1</sup>	3.18E-01	4.86E-01	4.52E-01	1.36E+00	3.82E-01	2.89E-01	1.62E-01	4.92E-01
	lb/hr	7.36E-08	1.09E-07	1.02E-07	3.04E-07	8.37E-08	6.41E-08	3.65E-08	1.10E-07
2,2',5,5'- Tetrachlorobiphenyl (PCB-52)	ng	0.545	0.554	0.643	2.31	0.300	0.123	<0.660	<0.734
	ng/dscm	1.11E-01	1.37E-01	1.59E-01	5.74E-01	7.20E-02	2.97E-02	<1.50E-01	<1.76E-01
	ng/dscm <sup>1</sup>	8.13E-02	1.00E-01	1.15E-01	4.15E-01	5.21E-02	2.15E-02	<1.09E-01	<1.28E-01
	lb/hr	1.88E-08	2.25E-08	2.60E-08	9.30E-08	1.14E-08	4.78E-09	<2.45E-08	<2.87E-08

**TABLE 6-2 (CONTINUED)**  
**POLYCHLORINATED BIPHENYLS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,3',4,4'- Tetrachlorobiphenyl (PCB-66)	ng	0.142	0.129	0.176	1.21	<0.600	<0.600	<0.600	<0.494
	ng/dscm	2.90E-02	3.20E-02	4.35E-02	3.01E-01	<1.44E-01	<1.45E-01	<1.37E-01	<1.19E-01
	ng/dscm <sup>1</sup>	2.12E-02	2.33E-02	3.16E-02	2.17E-01	<1.04E-01	<1.05E-01	<9.89E-02	<8.60E-02
	lb/hr	4.91E-09	5.25E-09	7.11E-09	4.87E-08	<2.28E-08	<2.33E-08	<2.23E-08	<1.92E-08
3,3',4,4'- Tetrachlorobiphenyl (PCB-77)	ng	0.0933	0.0468	0.120	0.975	<0.630	<0.630	<0.630	<0.446
	ng/dscm	1.91E-02	1.16E-02	2.97E-02	2.42E-01	<1.51E-01	<1.52E-01	<1.44E-01	<1.07E-01
	ng/dscm <sup>1</sup>	1.39E-02	8.46E-03	2.15E-02	1.75E-01	<1.09E-01	<1.10E-01	<1.04E-01	<7.75E-02
	lb/hr	3.22E-09	1.90E-09	4.85E-09	3.93E-08	<2.40E-08	<2.45E-08	<2.34E-08	<1.73E-08
3,4,4',5- Tetrachlorobiphenyl (PCB-81)	ng	<0.0960	<0.0960	<0.480	<4.80	<0.480	<0.480	<0.480	<0.987
	ng/dscm	<1.96E-02	<2.38E-02	<1.19E-01	<1.19E+00	<1.15E-01	<1.16E-01	<1.09E-01	<2.42E-01
	ng/dscm <sup>1</sup>	<.43E-02	<1.74E-02	<8.61E-02	<8.63E-01	<8.34E-02	<8.40E-02	<7.91E-02	<1.75E-01
	lb/hr	<3.32E-09	<3.91E-09	<1.94E-08	<1.93E-07	<1.83E-08	<1.86E-08	<1.78E-08	<3.92E-08
2,2',4,5,5'- Pentachlorobiphenyl (PCB-101)	ng	0.182	0.185	0.442	1.27	0.208	0.0690	0.0502	0.344
	ng/dscm	3.72E-02	4.58E-02	1.09E-01	3.16E-01	4.99E-02	1.67E-02	1.14E-02	8.37E-02
	ng/dscm <sup>1</sup>	2.71E-02	3.35E-02	7.93E-02	2.28E-01	3.61E-02	1.21E-02	8.28E-03	6.07E-02
	lb/hr	6.29E-09	7.53E-09	1.79E-08	5.11E-08	7.91E-09	2.68E-09	1.86E-09	1.36E-08
2,3,3',4,4'- Pentachlorobiphenyl (PCB-105)	ng	<0.102	0.0313	<0.510	0.471	<0.510	<0.510	<0.510	<0.378
	ng/dscm	<2.08E-02	7.76E-03	<1.26E-01	1.17E-01	<1.22E-01	<1.23E-01	<1.16E-01	<9.05E-02
	ng/dscm <sup>1</sup>	<1.52E-02	5.66E-03	<9.15E-02	8.47E-02	<8.86E-02	<8.92E-02	<8.41E-02	<6.56E-02
	lb/hr	<3.52E-09	1.27E-09	<2.06E-08	1.90E-08	<1.94E-08	<1.98E-08	<1.89E-08	<1.46E-08
2,3,4,4',5- Pentachlorobiphenyl (PCB-114)	ng	<0.165	<0.165	<0.825	<8.25	<0.825	<0.825	<0.825	<1.70
	ng/dscm	<3.37E-02	<4.09E-02	<2.04E-01	<2.05E+00	<1.98E-01	<1.99E-01	<1.88E-01	<4.16E-01
	ng/dscm <sup>1</sup>	<2.46E-02	<2.98E-02	<1.48E-01	<1.48E+00	<1.43E-01	<1.44E-01	<1.36E-01	<3.01E-01
	lb/hr	<5.70E-09	<6.72E-09	<3.33E-08	<3.32E-07	<3.14E-08	<3.20E-08	<3.06E-08	<6.74E-08

**TABLE 6-2 (CONTINUED)**  
**POLYCHLORINATED BIPHENYLS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,3',4,4',5-Pentachlorobiphenyl (PCB-118)	ng	0.0913	0.0615	<0.915	1.01	<0.915	<0.915	<0.915	<0.689
	ng/dscm	1.86E-02	1.52E-02	<2.26E-01	2.51E-01	<2.20E-01	<2.21E-01	<2.08E-01	<1.66E-01
	ng/dscm <sup>1</sup>	1.36E-02	1.11E-02	<1.64E-01	1.82E-01	<1.59E-01	<1.60E-01	<1.51E-01	<1.20E-01
	lb/hr	3.15E-09	2.50E-09	<3.70E-08	4.07E-08	<3.48E-08	<3.55E-08	<3.40E-08	<2.68E-08
2',3,4,4',5-Pentachlorobiphenyl (PCB-123)	ng	<0.171	<0.171	<0.855	<8.55	<0.855	<0.855	<0.855	<1.76
	ng/dscm	<3.49E-02	<4.24E-02	<2.11E-01	<2.12E+00	<2.05E-01	<2.07E-01	<1.95E-01	<4.31E-01
	ng/dscm <sup>1</sup>	<2.55E-02	<3.09E-02	<1.53E-01	<1.54E+00	<1.49E-01	<1.50E-01	<1.41E-01	<3.12E-01
	lb/hr	<5.91E-09	<6.96E-09	<3.45E-08	<3.44E-07	<3.25E-08	<3.32E-08	<3.17E-08	<6.99E-08
3,3',4,4',5-Pentachlorobiphenyl (PCB-126)	ng	<0.123	<0.123	<0.615	<6.15	<0.615	<0.615	<0.615	<1.27
	ng/dscm	<2.51E-02	<3.05E-02	<1.52E-01	<1.53E+00	<1.48E-01	<1.49E-01	<1.40E-01	<3.10E-01
	ng/dscm <sup>1</sup>	<1.83E-02	<2.22E-02	<1.10E-01	<1.11E+00	<1.07E-01	<1.08E-01	<1.01E-01	<2.25E-01
	lb/hr	<4.25E-09	<5.01E-09	<2.48E-08	<2.48E-07	<2.34E-08	<2.39E-08	<2.28E-08	<5.03E-08
2,2',3,3',4,4'-Hexachlorobiphenyl (PCB-128)	ng	0.00802	0.00391	0.0154	<10.2	<1.02	<1.02	<1.02	<1.90
	ng/dscm	1.64E-03	9.69E-04	3.81E-03	<2.53E+00	<2.45E-01	<2.46E-01	<2.32E-01	<4.66E-01
	ng/dscm <sup>1</sup>	1.20E-03	7.07E-04	2.76E-03	<1.83E+00	<1.77E-01	<1.78E-01	<1.68E-01	<3.37E-01
	lb/hr	2.77E-10	1.59E-10	6.22E-10	<4.11E-07	<3.88E-08	<3.96E-08	<3.79E-08	<7.55E-08
2,2',3,4,4',5'-Hexachlorobiphenyl (PCB-138)	ng	0.0787	0.0475	0.0445	0.323	0.154	0.0710	0.0621	0.112
	ng/dscm	1.61E-02	1.18E-02	1.10E-02	8.03E-02	3.70E-02	1.72E-02	1.41E-02	2.68E-02
	ng/dscm <sup>1</sup>	1.17E-02	8.59E-03	7.98E-03	5.81E-02	2.68E-02	1.24E-02	1.02E-02	1.94E-02
	lb/hr	2.72E-09	1.93E-09	1.80E-09	1.30E-08	5.86E-09	2.76E-09	2.31E-09	4.34E-09
2,2',4,4',5,5'-Hexachlorobiphenyl (PCB-153)	ng	0.0710	0.0544	0.0713	0.456	<1.25	0.0632	0.0597	<0.289
	ng/dscm	1.45E-02	1.35E-02	1.76E-02	1.13E-01	<3.00E-01	1.53E-02	1.36E-02	<6.97E-02
	ng/dscm <sup>1</sup>	1.06E-02	9.84E-03	1.28E-02	8.20E-02	<2.17E-01	1.11E-02	9.84E-03	<5.05E-02
	lb/hr	2.45E-09	2.21E-09	2.88E-09	1.84E-08	<4.76E-08	2.45E-09	2.22E-09	<1.12E-08



**TABLE 6-2 (CONTINUED)**  
**POLYCHLORINATED BIPHENYLS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,3,3',4,4',5'-Hexachlorobiphenyl (PCB-156)	ng	0.0117	0.00940	<1.28	<12.8	<1.28	<1.28	<1.28	<2.56
	ng/dscm	2.39E-03	2.33E-03	<3.16E-01	<3.18E+00	<3.07E-01	<3.09E-01	<2.92E-01	<6.30E-01
	ng/dscm <sup>1</sup>	1.74E-03	1.70E-03	<2.30E-01	<2.30E+00	<2.22E-01	<2.24E-01	<2.11E-01	<4.56E-01
	lb/hr	4.04E-10	3.83E-10	<5.17E-08	<5.16E-07	<4.87E-08	<4.97E-08	<4.75E-08	<1.02E-07
2,3,3',4,4',5'-Hexachlorobiphenyl (PCB-157)	ng	0.0117	0.00940	<1.28	<12.8	<1.28	<1.28	<1.28	<2.56
	ng/dscm	2.39E-03	2.33E-03	<3.16E-01	<3.18E+00	<3.07E-01	<3.09E-01	<2.92E-01	<6.30E-01
	ng/dscm <sup>1</sup>	1.74E-03	1.70E-03	<2.30E-01	<2.30E+00	<2.22E-01	<2.24E-01	<2.11E-01	<4.56E-01
	lb/hr	4.04E-10	3.83E-10	<5.17E-08	<5.16E-07	<4.87E-08	<4.97E-08	<4.75E-08	<1.02E-07
2,3',4,4',5,5'-Hexachlorobiphenyl (PCB-167)	ng	<0.180	<0.180	<0.900	<9.00	<0.900	<0.900	0.00562	<1.72
	ng/dscm	<3.68E-02	<4.46E-02	<2.23E-01	<2.24E+00	<2.16E-01	<2.17E-01	1.28E-03	<4.25E-01
	ng/dscm <sup>1</sup>	<2.68E-02	<3.25E-02	<1.61E-01	<1.62E+00	<1.56E-01	<1.57E-01	9.27E-04	<3.08E-01
	lb/hr	<6.22E-09	<7.33E-09	<3.64E-08	<3.62E-07	<3.42E-08	<3.50E-08	2.09E-10	<6.88E-08
3,3',4,4',5,5'-Hexachlorobiphenyl (PCB-169)	ng	0.00239	0.00369	<0.615	<6.15	<0.615	<0.615	<0.615	<1.23
	ng/dscm	4.88E-04	9.14E-04	<1.52E-01	<1.53E+00	<1.48E-01	<1.49E-01	<1.40E-01	<3.03E-01
	ng/dscm <sup>1</sup>	3.56E-04	6.67E-04	<1.10E-01	<1.11E+00	<1.07E-01	<1.08E-01	<1.01E-01	<2.19E-01
	lb/hr	8.26E-11	1.50E-10	<2.48E-08	<2.48E-07	<2.34E-08	<2.39E-08	<2.28E-08	<4.90E-08
2,2',3,3',4,4',5'-Heptachlorobiphenyl (PCB-170)	ng	0.0105	<0.132	<0.660	<6.60	<0.660	<0.660	<0.660	<1.34
	ng/dscm	2.14E-03	<3.27E-02	<1.63E-01	<1.64E+00	<1.58E-01	<1.59E-01	<1.50E-01	<3.30E-01
	ng/dscm <sup>1</sup>	1.57E-03	<2.39E-02	<1.18E-01	<1.19E+00	<1.15E-01	<1.15E-01	<1.09E-01	<2.38E-01
	lb/hr	3.63E-10	<5.37E-09	<2.67E-08	<2.66E-07	<2.51E-08	<2.56E-08	<2.45E-08	<5.34E-08
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB-180)	ng	0.0228	0.0326	0.00674	<10.2	0.0384	0.0105	0.0239	<1.48
	ng/dscm	4.66E-03	8.08E-03	1.67E-03	<2.53E+00	9.22E-03	2.54E-03	5.45E-03	<3.67E-01
	ng/dscm <sup>1</sup>	3.40E-03	5.89E-03	1.21E-03	<1.83E+00	6.67E-03	1.84E-03	3.94E-03	<2.65E-01
	lb/hr	7.88E-10	1.33E-09	2.72E-10	<4.11E-07	1.46E-09	4.08E-10	8.87E-10	<5.94E-08

**TABLE 6-2 (CONTINUED)**  
**POLYCHLORINATED BIPHENYLS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB-187)	ng	0.0277	0.0175	0.0144	<6.30	0.0614	<0.630	<0.630	<1.10
	ng/dscm	5.66E-03	4.34E-03	3.56E-03	<1.57E+00	1.47E-02	<1.52E-01	<1.44E-01	<2.70E-01
	ng/dscm <sup>1</sup>	4.13E-03	3.16E-03	2.58E-03	<1.13E+00	1.07E-02	<1.10E-01	<1.04E-01	<1.95E-01
	lb/hr	9.57E-10	7.12E-10	5.82E-10	<2.54E-07	2.34E-09	<2.45E-08	<2.34E-08	<4.37E-08
2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB-189)	ng	<0.147	<0.147	<0.735	<7.35	<0.735	<0.735	<0.735	<1.51
	ng/dscm	<3.00E-02	<3.64E-02	<1.82E-01	<1.83E+00	<1.76E-01	<1.78E-01	<1.67E-01	<3.71E-01
	ng/dscm <sup>1</sup>	<2.19E-02	<2.66E-02	<1.32E-01	<1.32E+00	<1.28E-01	<1.29E-01	<1.21E-01	<2.68E-01
	lb/hr	<5.08E-09	<5.98E-09	<2.97E-08	<2.96E-07	<2.80E-08	<2.86E-08	<2.73E-08	<6.01E-08
2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB-195)	ng	<0.159	<0.159	<0.795	<7.95	<0.795	<0.795	<0.795	<1.64
	ng/dscm	<3.25E-02	<3.94E-02	<1.97E-01	<1.98E+00	<1.91E-01	<1.92E-01	<1.81E-01	<4.01E-01
	ng/dscm <sup>1</sup>	<2.37E-02	<2.88E-02	<1.43E-01	<1.43E+00	<1.38E-01	<1.39E-01	<1.31E-01	<2.90E-01
	lb/hr	<5.49E-09	<6.47E-09	<3.21E-08	<3.20E-07	<3.02E-08	<3.09E-08	<2.95E-08	<6.50E-08
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB-206)	ng	<0.171	<0.171	<0.855	<8.55	<0.855	<0.855	<0.855	<1.76
	ng/dscm	<3.49E-02	<4.24E-02	<2.11E-01	<2.12E+00	<2.05E-01	<2.07E-01	<1.95E-01	<4.31E-01
	ng/dscm <sup>1</sup>	<2.55E-02	<3.09E-02	<1.53E-01	<1.54E+00	<1.49E-01	<1.50E-01	<1.41E-01	<3.12E-01
	lb/hr	<5.91E-09	<6.96E-09	<3.45E-08	<3.44E-07	<3.25E-08	<3.32E-08	<3.17E-08	<6.99E-08
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl (PCB-209)	ng	<0.138	0.000789	<0.690	<6.90	<0.690	<0.690	<0.690	<1.40
	ng/dscm	<2.82E-02	1.96E-04	<1.71E-01	<1.71E+00	<1.66E-01	<1.67E-01	<1.57E-01	<3.43E-01
	ng/dscm <sup>1</sup>	<2.06E-02	1.43E-04	<1.24E-01	<1.24E+00	<1.20E-01	<1.21E-01	<1.14E-01	<2.48E-01
	lb/hr	<4.77E-09	3.21E-11	<2.79E-08	<2.78E-07	<2.63E-08	<2.68E-08	<2.56E-08	<5.56E-08

<sup>1</sup> Emission results are corrected to seven percent oxygen.

**TABLE 6-3**  
**HYDROCARBONS RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Hydrocarbons (as propane)	ppmv dry	<6.91E-02	<4.76E-02	<1.02E-02	<4.53E-03	<5.63E-03	<2.28E-03	<1.33E-02	<2.18E-02
	ppmv dry <sup>1</sup>	<5.05E-02	<3.47E-02	<7.39E-03	<3.28E-03	<4.08E-03	<1.65E-03	<9.66E-03	<1.59E-02
	lb/hr	<2.14E-02	<1.43E-02	<3.05E-03	<1.35E-03	<1.64E-03	<6.72E-04	<3.99E-03	<6.64E-03

<sup>1</sup> Emission results are corrected to seven percent oxygen.

**TABLE 6-4**  
**HYDROGEN CYANIDE RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Hydrogen cyanide	ppmv dry	<0.337	<0.450	<0.307	<0.376	<0.347	<0.336	<0.740	<0.359
	ppmv dry <sup>1</sup>	<0.246	<0.328	<0.222	<0.272	<0.251	<0.243	<0.535	<0.261
	lb/hr	<0.0642	<0.0831	<0.0563	<0.0685	<0.0618	<0.0607	<0.136	<0.0658

<sup>1</sup> Emission results are corrected to seven percent oxygen.

**TABLE 6-5**  
**CARBON MONOXIDE AND OXYGEN RESULTS**

ANALYTES	UNITS	RUN 1	RUN 2	RUN 3	RUN 4	RUN 5	RUN 6	RUN 7	AVERAGE
Carbon monoxide	ppmv dry <sup>1</sup>	3.67	3.14	3.48	4.60	3.10	3.66	3.95	3.39
Oxygen	% vol dry	1.91	1.90	1.80	1.74	1.76	1.75	1.74	1.80

<sup>1</sup> Data represents the maximum hourly rolling average corrected to seven percent oxygen.

## **Appendix A:**

### **SITE-SPECIFIC TEST PLAN**



## Site Specific Test Plan Subpart EEE ICR

BASF Corporation  
602 Copper Rd  
Freeport, TX 77541

Source to be Tested: Incinerator IN-701  
(EPN 4-1-1)  
Proposed Test Dates: May 14-17, 2024

Project No. AST-2024-2250

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Prepared By  
Alliance Technical Group, LLC  
5757 Genoa Red Bluff Road  
Pasadena, TX 77507

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**Regulatory Information**

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*Regulatory Citation*

Clean Air Act (CAA) Section 114 – Information Collection Request (ICR)

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**Source Information**

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*Source Name*

Incinerator IN-701

*Source ID*

EPN 4-1-1

*Target Parameters*

PAH/PCB, THC, HCN

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**Contact Information**

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*Test Location*

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Freeport, TX 77541

*Test Company*

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Pasadena, TX 77507

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## 1.0 Introduction

Alliance Technical Group, LLC (Alliance) was retained by BASF Corporation (BASF) to conduct CAA Section 114 ICR testing at the Freeport, Texas facility. Testing will be conducted to determine the emission concentrations of Polycyclic Aromatic Hydrocarbons (PAH), Polychlorinated Biphenyls (PCB), Total Hydrocarbons (THC) and Hydrogen Cyanide (HCN) at the exhaust of Incinerator IN-701 (EPN 4-1-1). These sources are regulated under 40 CFR 63, Subpart EEE which is subject to this ICR. Alliance also understands that waste feed sampling and analysis is also required.

This site-specific test plan (SSTP) has been prepared to outline the project scope and schedule. Enclosure 1 of the EPA ICR does not require the submission of this test plan; however, a copy must be submitted with the final test report.

## 1.1 Facility Description

The BASF Freeport Site produces organic chemicals for use in various commercial industries. At this time, the BASF Freeport Site is considered a major stationary source of hazardous air pollutants (HAPs) as defined in Part A, Section 112 of the Clean Air Act as amended November 15, 1990.

## 1.2 Source and Control System Descriptions

The Incinerator IN-701 is a liquid injection incinerator. The incinerator is a horizontal, cylindrical, self-supporting unit designed for forced draft operation. The incinerator is equipped with heat recovery for steam production. There is no air pollution control equipment installed on the unit. The unit is designed to process non-hazardous and hazardous liquid waste and vent gases up to a capacity of 100 million British thermal units per hour (MMBtu/hr).

## 1.3 Project Team

Personnel planned to be involved in this project are identified in the following table.

**Table 1-1: Project Team**

<b>BASF Personnel</b>	Justin Matthews
<b>Regulatory Agency</b>	EPA
<b>Alliance Personnel</b>	Steven Dryden other field personnel assigned at time of testing event

## 1.4 Safety Requirements

Testing personnel will undergo site-specific safety training for all applicable areas upon arrival at the site. Alliance personnel will have current OSHA or MSHA safety training and be equipped with hard hats, safety glasses with side shields, steel-toed safety shoes, hearing protection, fire resistant clothing, and fall protection (including shock corded lanyards and full-body harnesses). Alliance personnel will conduct themselves in a manner consistent with Client and Alliance's safety policies.

A Job Safety Analysis (JSA) will be completed daily by the Alliance Field Team Leader.



## **2.0 Summary of Test Program**

To satisfy the requirements of the Section 114 ICR, the facility will conduct an informational test program to determine the emission concentrations of selected pollutants at the exhaust of the Incinerator IN-701 (EPN 4-1-1).

### **2.1 General Description**

All testing will be performed in accordance with specifications stipulated in U.S. EPA Reference Test Methods 1, 2, 3A, 4, 23, 25A, 320 and ASTM D240. Table 2-1 presents an outline and tentative schedule for the emissions testing program. The following is a summary of the test objectives.

- Emissions testing will be conducted on the exhaust of Incinerator IN-701 (EPN 4-1-1).
- Performance testing will be conducted in a normal and representative manner.
- Seven (7) test runs will be performed.
- A minimum of 141 dscf (4 dscm) will be collected during each EPA Method 23 test run.
- Total Hydrocarbons will be measured concurrently with the EPA Method 23 sampling.
- Waste feed samples will be collected and analyzed for higher heating value using the methods listed in Table 1.5 of the EPA ICR Enclosure 1 (Appendix A).
- Incinerator IN-701 (EPN 4-1-1) has two (2) liquid waste feed streams.
- Waste feed samples will be collected at the beginning, middle and end of each run and a field duplicate sample will be collected for one of the test runs.
- BASF has received an exemption for testing required for HF and HBr and feed sample analysis for fluorine and bromine listed in table 1.5. This exemption was received by email communication from Rachel Smoak – Fuels and Incineration Group on March 12, 2024

### **2.2 Process/Control System Parameters to be Monitored and Recorded**

Plant personnel will collect operational and parametric data at least once every 15 minutes during the testing. The following list identifies the measurements, observations and records that will be collected during the testing program:

- The same process data required during a Subpart EEE Comprehensive Performance Test.
- THC and/or CO CEMs concentrations corrected to 7% O<sub>2</sub>.

### **2.3 Proposed Test Schedule**

Table 2-1 presents an outline and tentative schedule for the emissions testing program.

**Table 2-1: Program Outline and Tentative Test Schedule**

Testing Location	Parameter	US EPA Method	No. of Runs	Run Duration	Est. Onsite Time
DAY 1 – May 13, 2024					
Equipment Setup & Pretest QA/QC Checks					8 hr
DAY 2 – May 14, 2024					
Incinerator IN-701	VFR	1-2	2	Concurrent with each pollutant test	12 hr
	O <sub>2</sub> /CO <sub>2</sub>	3A			
	BWS	4			
	PAH & PCB	23		4 hrs	
	THC	25A		4 hrs (concurrent with PAH/PCB)	
	HCN	320		1 hr	
	Higher Heating Value	ASTM D240		Approximately 150 mL into two separate bottles at the beginning, middle and end of each test run	
DAY 3 – May 15, 2024					
Incinerator IN-701	VFR	1-2	2	Concurrent with each pollutant test	12 hr
	O <sub>2</sub> /CO <sub>2</sub>	3A			
	BWS	4			
	PAH & PCB	23		4 hrs	
	THC	25A		4 hrs (concurrent with PAH/PCB)	
	HCN	320		1 hrs	
	Higher Heating Value	ASTM D240		Approximately 150 mL into two separate bottles at the beginning, middle and end of each test run	

**Table 2-1: Program Outline and Tentative Test Schedule (Cont.)**

Testing Location	Parameter	US EPA Method	No. of Runs	Run Duration	Est. Onsite Time
DAY 4 – May 16, 2024					
Incinerator IN-701	VFR	1-2	2	Concurrent with each pollutant test	12 hr
	O <sub>2</sub> /CO <sub>2</sub>	3A			
	BWS	4			
	PAH & PCB	23		4 hrs	
	THC	25A		4 hrs (concurrent with PAH/PCB)	
	HCN	320		1 hr	
	Higher Heating Value	ASTM D240		Approximately 150 mL into two separate bottles at the beginning, middle and end of each test run	
DAY 5 – May 17, 2024					
Incinerator IN-701	VFR	1-2	1	Concurrent with each pollutant test	12 hr
	O <sub>2</sub> /CO <sub>2</sub>	3A			
	BWS	4			
	PAH & PCB	23		4 hrs	
	THC	25A		4 hrs (concurrent with PAH/PCB)	
	HCN	320		1 hrs	
	Higher Heating Value	ASTM D240		Approximately 150 mL into two separate bottles at the beginning, middle and end of each test run	

## 2.4 Emission Reporting Units

Emission reporting units for each pollutant are below.

**Table 2-2: Emission Reporting Units**

Pollutant	Reporting Units
PAH & PCB	ng/dscm, ng/dscm @7% O <sub>2</sub>
THC & HCN	ppmvd, ppmvd @7% O <sub>2</sub>
Gas Flow Rate	acfm, scfm, dscfm
O <sub>2</sub> , CO <sub>2</sub>	% volume, dry
Moisture	% volume

Note: Pollutants will be calculated in lb/hr as well and reported in the final test report appendices emission summaries. These lb/hr results will not be summarized in the front summary of the final test report.

## 2.5 Test Report

The final test report must be submitted by August 30, 2024 and will include the following information. In addition to the final test report, the test results must be entered into the U.S. EPA Electronic Reporting Tool (ERT) for submittal via CEDRI.

- *Introduction* – Brief discussion of project scope of work and activities.
- *Results and Discussion* – A summary of test results and process/control system operational data with comparison to regulatory requirements or vendor guarantees along with a description of process conditions and/or testing deviations that may have affected the testing results.
- *Methodology* – A description of the sampling and analytical methodologies.
- *Sample Calculations* – Example calculations for each target parameter.
- *Field Data* – Copies of actual handwritten or electronic field data sheets.
- *Laboratory Data* – Copies of laboratory report(s) and chain of custody(s).
- *Quality Control Data* – Copies of all instrument calibration data and/or calibration gas certificates.
- *Process Operating/Control System Data* – Process operating and control system data (as provided by BASF) to support the test results.

### 3.0 Testing Methodology

This section provides a description of the sampling and analytical procedures for each test method that will be employed during the test program. All equipment, procedures and quality assurance measures necessary for the completion of the test program meet or exceed the specifications of each relevant test method. The emission testing program will be conducted in accordance with the test methods listed in Table 3-1.

**Table 3-1: Source Testing Methodology**

Parameter	U.S. EPA Reference Test Methods	Notes/Remarks
Volumetric Flow Rate	1 & 2	Full Velocity Traverses
Oxygen/Carbon Dioxide	3A	Instrumental Analysis
Moisture Content	4	Gravimetric Analysis
PAH & PCB	23	Isokinetic Sampling
Total Hydrocarbons	25A	Instrumental Analysis
Hydrogen Cyanide	320	FTIR – Continuous Sampling

All stack diameters, depths, widths, upstream and downstream disturbance distances and nipple lengths will be measured on site with an EPA Method 1 verification measurement provided by the Field Team Leader. These measurements will be included in the test report.

#### 3.1 U.S. EPA Reference Test Methods 1 and 2 – Sampling/Traverse Points and Volumetric Flow Rate

The sampling location and number of traverse (sampling) points will be selected in accordance with U.S. EPA Reference Test Method 1. To determine the minimum number of traverse points, the upstream and downstream distances will be equated into equivalent diameters and compared to Figure 1-1 in U.S. EPA Reference Test Method 1.

Full velocity traverses will be conducted in accordance with U.S. EPA Reference Test Method 2 to determine the average stack gas velocity pressure, static pressure and temperature. The velocity and static pressure measurement system will consist of a pitot tube and inclined manometer. The stack gas temperature will be measured with a K-type thermocouple and pyrometer.

Stack gas velocity pressure and temperature readings will be recorded during each test run. The data collected will be utilized to calculate the volumetric flow rate in accordance with U.S. EPA Reference Test Method 2.

#### 3.2 U.S. EPA Reference Test Method 3A – Oxygen / Carbon Dioxide

The oxygen (O<sub>2</sub>) and carbon dioxide (CO<sub>2</sub>) testing will be conducted in accordance with U.S. EPA Reference Test Method 3A. Data will be collected online and reported in one-minute averages. The sampling system will consist of a stainless-steel probe, Teflon sample line(s), gas conditioning system and the identified gas analyzer. The gas conditioning system will be a non-contact condenser used to remove moisture from the stack gas. If an unheated Teflon sample line is used, then a portable non-contact condenser will be placed in the system directly after the probe. Otherwise, a heated Teflon sample line will be used. The quality control measures are described in Section 3.7.

### 3.3 U.S. EPA Reference Test Method 4 – Moisture Content

The stack gas moisture content will be determined in accordance with U.S. EPA Reference Test Method 4. The gas conditioning train will consist of a series of chilled impingers. Prior to testing, each impinger will be filled with a known quantity of water or silica gel. Each impinger will be analyzed gravimetrically before and after each test run on the same analytical balance to determine the amount of moisture condensed.

### 3.4 U.S. EPA Reference Test Method 23 – PAH & PCBs

The polycyclic aromatic hydrocarbons (PAH) and polychlorinated biphenyls (PCB) testing will be conducted in accordance with U.S. EPA Reference Test Method 23. The sampling system will consist of a glass nozzle, heated glass-lined probe, glass filter holder with pre-cleaned heated glass-fiber filter, condenser coil, XAD resin trap, gas conditioning train, pump and calibrated dry gas meter. The gas conditioning system will consist of five (5) chilled impingers. The first impinger will be empty. The next two (2) impingers each will contain 100 mL of water. The fourth impinger will be empty while the fifth impinger will be charged with 200-300 grams of silica gel. The probe liner and filter heating systems will be maintained at a temperature of  $120 \pm 14^{\circ}\text{C}$  ( $248 \pm 25^{\circ}\text{F}$ ), and the impinger temperature will be maintained below at  $20^{\circ}\text{C}$  ( $68^{\circ}\text{F}$ ) or less throughout testing.

Method 23 Section 6.1.7 requires the condenser to be oriented at an angle to cause moisture to flow down to the XAD adsorbent module to facilitate condensate drainage. Glassware with this configuration is not currently available from a national supplier utilizing a large enough condenser to meet the temperature specifications of the method. Alliance will continue to work with manufacturers, but until equipment is widely available, the horizontal or vertical condenser configuration from traditional Method 23 will be utilized.

All glassware leading to the XAD adsorbing resin trap will be cleaned and sealed before mobilizing to the site. The sampling train will be assembled in the sample recovery area. The pre-cleaned quartz filter will be placed in a glass filter holder with a Teflon filter support and connected to the condenser coil. All open ends of the sampling train will be sealed with Teflon tape prior to complete assembly at the sampling location.

Following the completion of each test run, the sampling train will be leak checked at vacuum pressure greater than or equal to the highest vacuum pressure observed during the run and the contents of the impingers will be measured for moisture gain. The filter will be removed from the filter holder and placed in sample container 1. The XAD sorbent module will be sealed on both ends and placed on ice. The nozzle, probe liner, filter holder, condenser and all connecting glassware will be triple-rinsed and brushed with acetone followed by toluene, and these rinses will be recovered in sample container 2. The impinger water condensate will be recovered into sample container 3a. All impingers will then be rinsed three times with acetone and then three times with toluene and collected in sample container 3b. All containers will be sealed, labeled and liquid levels marked for transport to the identified laboratory for analysis.

Method 23 Section 8.2.9 has the impinger water and solvent rinses collected in a single container (No. 3). Due to analytical method development constraints of the subcontracted laboratory, it is necessary to split this recovery between two containers: condensate (Container No. 3a) and solvent rinses (Container No. 3b).

A field blank will be collected prior to initiating testing. A complete sampling system will be placed at the sampling location and multiple leak checks will be performed on the system similar to an actual testing scenario. The sample train will be then moved to the mobile laboratory for recovery. A full set of reagent blanks including a filter and a trap will be also submitted to the laboratory.

Any analyte mass that is non-detect from the laboratory will be reported at the estimated detection limit (EDL) or the minimum detection limit (MDL) and flagged accordingly.

Target PAH and PCB analytes are detailed below:

PAH Analytes			
PAH Compound	CAS Number	PAH Compound	CAS Number
Naphthalene	91-20-3	Chrysene	218-01-9
2-Methylnaphthalene	91-57-6	Benzo[b]fluoranthene	205-99-2
Acenaphthylene	208-96-8	Benzo[k]fluoranthene	207-08-9
Acenaphthene	83-32-9	Perylene	198-55-8
Fluorene	86-73-7	Benzo[a]pyrene	50-32-8
Anthracene	120-12-7	Benzo[e]pyrene	192-97-2
Phenanthrene	85-01-8	Benzo[g,h,i]perylene	191-24-2
Fluoranthene	206-44-0	Indeno[1,2,3-cd]pyrene	193-39-5
Pyrene	129-00-0	Dibenz[a,h]anthracene	53-70-3
Benz[a]anthracene	56-55-3		
PCB Analytes			
PCB Congener	CAS Number	PCB Congener	CAS Number
2,4'-DiCB	34883-43-7	2,2',3,3',4,4'-HxCB	38380-07-3
2,2',5'-TrCB	37680-65-2	2,2',3,4,4',5'-HxCB	35065-28-2
2,4,4'-TrCB	7012-37-5	2,2',4,4',5,5'-HxCB	35065-27-1
2,2',3,5'-TeCB	41464-39-5	2,3,3',4,4',5-HxCB	38380-08-4
2,2',5,5'-TeCB	35693-99-3	2,3,3',4,4',5'-HxCB	69782-90-7
2,3',4,4'-TeCB	32598-10-0	2,3',4,4',5,5'-HxCB	52663-72-6
3,3',4,4'-TeCB	32598-13-3	3,3',4,4',5,5'-HxCB	32774-16-6
3,4,4',5'-TeCB	70362-50-4	2,2',3,3',4,4',5-HpCB	35065-30-6
2,2',4,5,5'-PeCB	37680-73-2	2,2',3,4,4',5,5'-HpCB	35065-29-3
2,3,3',4,4'-PeCB	32598-14-4	2,2',3,4',5,5',6-HpCB	52663-68-0
2,3,4,4',5-PeCB	74472-37-0	2,3,3',4,4',5,5'-HpCB	39635-31-9
2,3',4,4',5-PeCB	31508-00-6	2,2',3,3',4,4',5,6-OcCB	52663-78-2
2',3,4,4',5-PeCB	65510-44-3	2,2',3,3',4,4',5,5',6-NoCB	40186-72-9
3,3',4,4',5-PeCB	57465-28-8	2,2',3,3',4,4',5,5',6,6'-DeCB	2051-24-3

### 3.5 U.S. EPA Reference Test Method 25A – Total Hydrocarbons

The total hydrocarbons (THC) testing will be conducted in accordance with U.S. EPA Reference Test Method 25A. Data will be collected online and reported in one-minute averages. The sampling system will consist of a stainless-steel probe, heated Teflon sample line(s) and the identified gas analyzer. The quality control measures are described in Section 3.8.

### 3.6 U.S. EPA Reference Test Method 320 – Hydrogen Cyanide

The concentrations of hydrogen cyanide (HCN) will be determined in accordance with U.S. EPA Reference Test Method 320. Each source gas stream will be extracted at a constant rate through a heated probe, heated filter and heated sample line and analyzed with a MKS MultiGas 2030 FTIR operated by a portable computer. The computer has FTIR spectra of calibration gases stored on the hard drive. These single component calibration spectra are used to analyze the measured sample spectra. The gas components to be measured will be selected from the spectra library and incorporated into the analytical method. The signal amplitude, linearity, and signal to noise ratio will be measured and recorded to document analyzer performance. A leak check will be performed on the sample cell. The instrument path length will be verified using ethylene as the Calibration Transfer Standard. Dynamic spiking will be performed using a certified standard of the target compound in nitrogen with sulfur hexafluoride blended as a tracer to calculate the dilution factor. All test spectra, interferograms, and analytical method information are recorded and stored with the calculated analytical results. Any data point below the detection limit will be flagged and the MDL will be reported. The quality control measures are described in Section 3.9.

### 3.7 Quality Assurance/Quality Control – U.S. EPA Reference Test Method 3A

Cylinder calibration gases will meet EPA Protocol 1 (+/- 2%) standards. Copies of all calibration gas certificates will be included in the Quality Assurance/Quality Control Appendix of the report.

Low Level gas will be introduced directly to the analyzer. After adjusting the analyzer to the Low-Level gas concentration and once the analyzer reading is stable, the analyzer value will be recorded. This process will be repeated for the High-Level gas. For the Calibration Error Test, Low, Mid, and High-Level calibration gases will be sequentially introduced directly to the analyzer. The Calibration Error for each gas must be within 2.0 percent of the Calibration Span or 0.5% absolute difference.

High or Mid-Level gas (whichever is closer to the stack gas concentration) will be introduced at the probe and the time required for the analyzer reading to reach 95 percent or 0.5% (whichever was less restrictive) of the gas concentration will be recorded. The analyzer reading will be observed until it reaches a stable value, and this value will be recorded. Next, Low-Level gas will be introduced at the probe and the time required for the analyzer reading to decrease to a value within 5.0 percent or 0.5% (whichever was less restrictive) will be recorded. If the Low-Level gas is zero gas, the acceptable response must be 5.0 percent of the upscale gas concentration or 0.5% (whichever was less restrictive). The analyzer reading will be observed until it reaches a stable value, and this value will be recorded. The measurement system response time and initial system bias will be determined from these data. The System Bias for each gas must be within 5.0 percent of the Calibration Span or 0.5% absolute difference.

High or Mid-Level gas (whichever is closer to the stack gas concentration) will be introduced at the probe. After the analyzer response is stable, the value will be recorded. Next, Low-Level gas will be introduced at the probe, and the analyzer value will be recorded once it reaches a stable response. The System Bias for each gas must be within 5.0 percent of the Calibration Span or 0.5% absolute difference or the data is invalidated, and the Calibration Error Test and System Bias must be repeated.

The Drift between pre- and post-run System Bias must be within 3 percent of the Calibration Span or 0.5% absolute difference or the Calibration Error Test and System Bias must be repeated.



To determine the number of sampling points, a gas stratification check will be conducted prior to initiating testing. The pollutant concentrations will be measured at twelve traverse points (as described in Method 1) or three points (16.7, 50.0 and 83.3 percent of the measurement line). Each traverse point will be sampled for a minimum of twice the system response time.

If the pollutant concentration at each traverse point do not differ more than 5% or 0.3% (whichever is less restrictive) of the average pollutant concentration, then single point sampling will be conducted during the test runs. If the pollutant concentration does not meet these specifications but differs less than 10% or 0.5% from the average concentration, then three (3) point sampling will be conducted (stacks less than 7.8 feet in diameter - 16.7, 50.0 and 83.3 percent of the measurement line; stacks greater than 7.8 feet in diameter – 0.4, 1.0, and 2.0 meters from the stack wall). If the pollutant concentration differs by more than 10% or 0.5% from the average concentration, then sampling will be conducted at a minimum of twelve (12) traverse points. Copies of stratification check data will be included in the Quality Assurance/Quality Control Appendix of the report.

A Data Acquisition System with battery backup will be used to record the instrument response in one (1) minute averages. The data will be continuously stored as a \*.CSV file in Excel format on the hard drive of a computer. At the completion of testing, the data will also be saved to the Alliance server. All data will be reviewed by the Field Team Leader before leaving the facility. Once arriving at Alliance's office, all written and electronic data will be relinquished to the report coordinator and then a final review will be performed by the Project Manager.

### **3.8 Quality Assurance/Quality Control – U.S. EPA Reference Test Method 25A**

Cylinder calibration gases will meet EPA Protocol 1 (+/- 2%) standards. Copies of all calibration gas certificates will be included in the Quality Assurance/Quality Control Appendix of the report.

Within two (2) hours prior to testing, zero gas will be introduced through the sampling system to the analyzer. After adjusting the analyzer to the Zero gas concentration and once the analyzer reading is stable, the analyzer value will be recorded. This process will be repeated for the High-Level gas, and the time required for the analyzer reading to reach 95 percent of the gas concentration will be recorded to determine the response time. Next, Low and Mid-Level gases will be introduced through the sampling system to the analyzer, and the response will be recorded when it is stable. All values must be less than +/- 5 percent of the calibration gas concentrations.

Mid-Level gas will be introduced through the sampling system. After the analyzer response is stable, the value will be recorded. Next, Zero gas will be introduced through the sampling system, and the analyzer value recorded once it reaches a stable response. The Analyzer Drift must be less than +/- 3 percent of the span value. Calibration drift checks will be conducted hourly.

Based on correspondence and subsequent approval from the EPA, only the first and last calibration drift check will be reported in the ERT database for each Method 25A test run. All intermittent calibration drift checks will be presented in the full final test report.

A Data Acquisition System with battery backup will be used to record the instrument response in one (1) minute averages. The data will be continuously stored as a \*.CSV file in Excel format on the hard drive of a computer. At the completion of testing, the data will also be saved to the Alliance server. All data will be reviewed by the Field Team Leader before leaving the facility. Once arriving at Alliance's office, all written and electronic data will be relinquished to the report coordinator and then a final review will be performed by the Project Manager.

### 3.9 Quality Assurance/Quality Control – U.S. EPA Reference Method 320

EPA Protocol 1 Calibration Gases – Cylinder calibration gases used will meet EPA Protocol 1 (+/- 2%) standards or will be certified standards.

After providing ample time for the FTIR to reach the desired temperature and to stabilize, zero gas (nitrogen) will be introduced directly to the instrument sample port. While flowing nitrogen the signal amplitude will be recorded, a background spectra will be taken, a linearity check will be performed and recorded, the peak to peak noise and the root mean square in the spectral region of interest will be measured and a screenshot will be recorded.

Following the zero gas checks, room air will be pulled through the sample chamber and the line width and resolution will be verified to be at 1879 cm<sup>-1</sup>, the peak position will be entered and the FWHH will be recorded (screenshot). Following these checks, another background spectra will be recorded and the calibration transfer standard (CTS) will be introduced directly to the instrument sample port. The CTS instrument recovery will be recorded and the instrument mechanical response time will be measured.

Next, stack gas will be introduced to the FTIR through the sampling system and several scans will be taken until a stable reading will be achieved. The native concentration of our surrogate or target spiking analyte will be recorded. Spike gas will be introduced to the sampling system at a constant flow rate  $\leq 10\%$  of the total sample flow rate and a corresponding dilution ratio will be calculated along with a system response time. Matrix spike recovery spectra will be recorded and will be within the  $\pm 30\%$  of the calculated value of the spike concentration that the method requires.

The matrix spike recovery will be conducted once at the beginning of the testing and the CTS recovery procedures will be repeated following each test run. The corresponding values will be recorded.

#### 4.0 Quality Assurance Program

Alliance follows the procedures outlined in the Quality Assurance/Quality Control Management Plan to ensure the continuous production of useful and valid data throughout the course of this test program. The QC checks and procedures described in this section represent an integral part of the overall sampling and analytical scheme. Adherence to prescribed procedures is quite often the most applicable QC check.

#### 4.1 Equipment

Field test equipment is assigned a unique, permanent identification number. Prior to mobilizing for the test program, equipment is inspected before being packed to detect equipment problems prior to arriving on site. This minimizes lost time on the job site due to equipment failure. Occasional equipment failure in the field is unavoidable despite the most rigorous inspection and maintenance procedures. Therefore, replacements for critical equipment or components are brought to the job site. Equipment returning from the field is inspected before it is returned to storage. During the course of these inspections, items are cleaned, repaired, reconditioned and recalibrated where necessary.

Calibrations are conducted in a manner, and at a frequency, which meets or exceeds U.S. EPA specifications. The calibration procedures outlined in the U.S. EPA Methods, and those recommended within the Quality Assurance Handbook for Air Pollution Measurement Systems: Volume III (EPA-600/R-94/038c, September 1994) are utilized. When these methods are inapplicable, methods such as those prescribed by the American Society for Testing and Materials (ASTM) or other nationally recognized agency may be used. Data obtained during calibrations is checked for completeness and accuracy. Copies of calibration forms are included in the report.

The following sections elaborate on the calibration procedures followed by Alliance for these items of equipment.

- Dry Gas Meter and Orifice. A full meter calibration using critical orifices as the calibration standard is conducted at least semi-annually, more frequently if required. The meter calibration procedure determines the meter correction factor (Y) and the meter's orifice pressure differential ( $\Delta H@$ ). Alliance uses approved Alternative Method 009 as a post-test calibration check to ensure that the correction factor has not changed more than 5% since the last full meter calibration. This check is performed after each test series.
- Pitot Tubes and Manometers. Type-S pitot tubes that meet the geometric criteria required by U.S. EPA Reference Test Method 2 are assigned a coefficient of 0.84 unless a specific coefficient has been determined from a wind tunnel calibration. If a specific coefficient from a wind tunnel calibration has been obtained that coefficient will be used in lieu of 0.84. Standard pitot tubes that meet the geometric criteria required by U.S. EPA Reference Test Method 2 are assigned a coefficient of 0.99. Any pitot tubes not meeting the appropriate geometric criteria are discarded and replaced. Manometers are verified to be level and zeroed prior to each test run and do not require further calibration.
- Temperature Measuring Devices. All thermocouple sensors mounted in Dry Gas Meter Consoles are calibrated semi-annually with a NIST-traceable thermocouple calibrator (temperature simulator) and verified during field use using a second NIST-traceable meter. NIST-traceable thermocouple calibrators are calibrated annually by an outside laboratory.
- Nozzles. Nozzles are measured three (3) times prior to initiating sampling with a caliper. The maximum difference between any two (2) dimensions is 0.004 in.
- Digital Calipers. Calipers are calibrated annually by Alliance by using gage blocks that are calibrated annually by an outside laboratory.

- Barometer. The barometric pressure is obtained from a nationally recognized agency or a calibrated barometer. Calibrated barometers are checked prior to each field trip against a mercury barometer. The barometer is acceptable if the values agree within  $\pm 2$  percent absolute. Barometers not meeting this requirement are adjusted or taken out of service.
- Balances and Weights. Balances are calibrated annually by an outside laboratory. A functional check is conducted on the balance each day it is use in the field using a calibration weight. Weights are re-certified every two (2) years by an outside laboratory or internally. If conducted internally, they are weighed on a NIST traceable balance. If the weight does not meet the expected criteria, they are replaced.
- Other Equipment. A mass flow controller calibration is conducted on each Environics system annually following the procedures in the Manufacturer's Operation manual. A methane/ethane penetration factor check is conducted on the total hydrocarbon analyzers equipped with non-methane cutters every six (6) months following the procedures in 40 CFR 60, Subpart JJJJ. Other equipment such as probes, umbilical lines, cold boxes, etc. are routinely maintained and inspected to ensure that they are in good working order. They are repaired or replaced as needed.

#### **4.2 Field Sampling**

Field sampling will be done in accordance with the Standard Operating Procedures (SOP) for the applicable test methods. General QC measures for the test program include:

- Cleaned glassware and sample train components will be sealed until assembly.
- Sample trains will be leak checked before and after each test run.
- Appropriate probe, filter and impinger temperatures will be maintained.
- The sampling port will be sealed to prevent air from leaking from the port.
- Dry gas meter,  $\Delta P$ ,  $\Delta H$ , temperature and pump vacuum data will be recorded during each sample point.
- An isokinetic sampling rate of 90-110% will be maintained, as applicable.
- All raw data will be maintained in organized manner.
- All raw data will be reviewed daily for completeness and acceptability.

#### **4.3 Analytical Laboratory**

Analytical laboratory selection for sample analyses is based on the capabilities, certifications and accreditations that the laboratory possesses. An approved analytical laboratory subcontractor list is maintained with a copy of the certificate and analyte list as evidence of compliance. Alliance assumes responsibility to the client for the subcontractor's work. Alliance maintains a verifiable copy of the results with chain of custody documentation.

## Appendix A

**ENCLOSURE 1**  
**Source Testing Request for Hazardous Waste Combustors:**  
**Test Procedures, Methods, and Reporting Requirements**

This document provides an overview of the required testing, approved sampling and analysis methods, target pollutants and units of measure, and reporting requirements for hazardous waste combustors (HWC) that are required to provide emission test data to the U.S. Environmental Protection Agency (EPA) under the Clean Air Act (CAA) section 114 (42 U.S.C. 7414). The purpose for this testing is to gather data on air pollutant emissions from HWC in this source category to inform the EPA's decision-making process for regulation of these sources. All recipients must complete and submit test results by August 30, 2024. Recipients are asked to submit answers to questions in Section 4.0 of this enclosure by March 1, 2024. The document is organized as follows:

- 1.0    Testing Procedures and Methods**
- 2.0    How to Report Data**
- 3.0    How to Submit Emissions Test Data**
- 4.0    Additional Questions**
- 5.0    Contact Information for Questions**

**1.0    Testing Procedures and Methods**

The EPA requires emissions test data for several pollutants, including specific hazardous air pollutants (HAP) and potential surrogate groups. The Section 114 letter includes a list of emissions sources selected for testing at your facility. For each HWC emissions source listed in your Section 114 letter, you must perform an emissions test for some combination of pollutants (i.e., simultaneous measurements per group) and diluents according to the test protocols presented in Section 1.1 of this document. You are also required to perform feedstream sampling and analysis, where applicable, according to the procedures specified in Section 1.2 of this document.

If your facility has process units that are required to be tested, but you are unable to respond to an item exactly as requested in this document, please explain why you cannot respond as requested and/or provide any information you believe may be related in a submission to EPA for consideration as a request for alternative testing requirements.<sup>1</sup> For example, if you have a similar process unit at a different facility that is more amenable to testing, you may choose to submit a request to the individual specified in Section 5.0 to have the alternative unit tested in place of the unit EPA requested that you test. If you have conducted any of the requested groups of emissions tests since 2019 (i.e., any complete set of tests to be conducted simultaneously as described in Tables 1.1 and 1.2 along with any required feedstream analysis according to Table 1.3), and the prior data remain representative of your operations, please discuss with EPA whether the prior testing may meet the goals of the testing requirements specified in this document (e.g., test method, sample volume). For the issues noted in this paragraph, or if you

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<sup>1</sup>NOTE: The EPA reserves all its enforcement rights provided by CAA section 113, including the right to bring a claim in the U.S. District Court to enforce the CAA section 114 obligation to comply with all the requests described in this document.

would like to request an alternate test method, please contact the person(s) specified in Section 5.0 of this document within **30 days** of receipt of your Section 114 letter with your recommended solution for consideration and approval.

Please note that you do not have to submit a site-specific test plan to the EPA for approval prior to testing; however, we require that you prepare a site-specific test plan to ensure that you address all the testing and reporting requirements and submit it as an appendix with your test report. Please note that you must report your process and emissions testing data using the **EPA's Electronic Reporting Tool (ERT)**, where applicable. You are directed to the ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) for a more complete and interactive description of the ERT, list of emissions test methods currently supported by the ERT, and a link to download the ERT.

You must follow all the procedures as specified in the test methods, including the quality assurance and quality control measures, and document the results in the ERT and in any test report provided to the EPA. For this program, you do not need to obtain audit materials from your state or local agency or from the EPA. You may apply any third-party audit materials you have on hand and document the results, but you are not required to do so.

## ***1.1 Stack Test Methods***

You must follow the stack test method procedures described in this section for the emissions sources listed in your Section 114 letter.

The owner/operator of the HWC must certify that the unit tested was operating in a normal and representative manner during the emissions test (i.e., in a manner consistent with the operating parameter limits specified in the source's title V permit). The owner/operator must also certify that it operated the air pollution control device(s) (APCD), if any, on the unit tested in accordance with the site specific operating plans required by 40 CFR Part 60, Subpart EEE (e.g., Operation and Maintenance Plan) during the emissions testing.

### ***1.1.1 Sample Location***

When selecting sampling locations:

- If the unit has multiple atmospheric vents that are not ducted to a common stack, you will need to test all atmospheric vents used during normal operation.

You must use EPA Method 1 or 1A of Appendix A-1 to 40 CFR Part 60, as applicable, to select the locations and number of traverse points for sampling for the tests in this section. See <https://www.epa.gov/emc/method-1-sample-velocity-traverses> and <https://www.epa.gov/emc/method-1a-small-ducts> for copies of the methods and guidance information for sampling situations not meeting Method 1 criteria.

### ***1.1.2 Emissions Measurement Methods***

Tables 1.1 and 1.2 summarize the testing required to be performed for each type of process unit.

Gas flow rate, oxygen (O<sub>2</sub>)/carbon dioxide (CO<sub>2</sub>), and gas moisture are required to be measured simultaneously with all pollutant tests.

Where concurrent testing is required, it is indicated in the table. If the table does not indicate simultaneous sampling is required for multiple pollutants, you may still choose to do so.

The primary reason for concurrent testing is to obtain a clear understanding about the overall HAP emissions profile from each emission process point. A second reason is to gather information that will help us evaluate the correlations between emissions of one pollutant to another pollutant, to potentially establish surrogate relationships. For example, the organic HAP tests and THC tests from the stack are required to be done at the same time. ***Tests that are required to be concurrent under this test request that are not done in this manner may be considered invalid and may need to be repeated.***

Feedrates of polychlorinated biphenyls (PCBs), fluorinated organics, brominated organics, and metals should be between the average feedrate and the maximum typical feedrate. Actual hazardous waste feedstreams typically fed to the operating unit must be used, rather than a surrogate feedstream. Spiking may be used to elevate the fluorinated organics or brominated organics feedrates to the range requested. This testing does not meet the criteria for subsequent testing of § 63.1207(h); operating parameters and emission limits are not waived during this testing.



**Table 1.1: Summary of Required Emissions Testing – Incinerators, Cement Kilns, Lightweight Aggregate Kilns, Solid Fuel Boilers, Liquid Fuel Boilers**

Parameter	Test Method	Units of Measure <sup>1</sup>
Polycyclic Aromatic Hydrocarbons (PAH), and Polychlorinated Biphenyls (PCB) <sup>2</sup>	EPA Method 23. Collect a minimum sample volume of 141 dscf (4 dscm) per run. Use high resolution mass spectrometry for sample analysis.	ng/dscm ng/dscm @ 7% O <sub>2</sub>
Total Hydrocarbons (THC)	EPA Method 25A <sup>3</sup> . Concurrent with the EPA Method 23 testing.	ppmvd ppmvd @ 7% O <sub>2</sub>
Hydrogen Fluoride (HF) and Hydrogen Bromide (HBr)	EPA Method 320 <sup>4</sup> or EPA Method 26A. Minimum of 2 hour sample duration. For EPA Method 26A, collect a minimum of 60 dscf. For HF, both the acid and basic impingers must be analyzed and reported. Report HF as total F collected in the acid and basic impingers.	ppmvd ppmvd @ 7% O <sub>2</sub>
Hydrogen Cyanide	EPA Method 320 <sup>4</sup> ; where entrained moisture droplets are present, Other Test Method 29 (OTM-29) should be used instead. OTM-29 may not be used on cement kilns. For OTM-29, breakthrough must be determined according to section 9.2.1 and reported.	ppmvd ppmvd @ 7% O <sub>2</sub>
Gas flow rate <sup>5</sup>	EPA Method 2, 2A, 2B, 2C, 2D, 2F, or 2G, as appropriate, simultaneous with each pollutant test run.	acfm, scfm, and dscfm
Oxygen (O <sub>2</sub> ) and Carbon Dioxide (CO <sub>2</sub> ) <sup>5</sup>	EPA Method 3A, simultaneous with each pollutant test run.	percent volume, dry
Moisture <sup>5</sup>	EPA Method 4, simultaneous with each pollutant test run.	percent volume

<sup>1</sup> ppmvd = parts per million by volume, dry basis; dscf = dry standard cubic feet; dscm = dry standard cubic meters; acfm = actual cubic feet per minute; scfm = standard cubic feet per minute; dscfm = dry standard cubic feet per minute; ng/dscm – nanograms per dry standard cubic meter;

<sup>2</sup> The target analytes for PAH and PCB are presented in Tables 1.3 and 1.4 respectively.

<sup>3</sup> If the facility uses a THC CEM to demonstrate compliance, the facility CEM data may be substituted.

<sup>4</sup> For analyte spiking, you must use the analytes of interest; the use of surrogate compound(s) is prohibited for the purposes of this CAA section 114 request.

<sup>5</sup> Gas flow rate, O<sub>2</sub>/CO<sub>2</sub> and moisture are required for all tests.

**Table 1.2: Summary of Required Emissions Testing – Hydrochloric Acid Production Furnaces**

Parameter	Test Method	Units of Measure <sup>1</sup>
Polycyclic Aromatic Hydrocarbons (PAH), and Polychlorinated Biphenyls (PCB) <sup>2</sup>	EPA Method 23. Collect a minimum sample volume of 141 dscf (4 dscm) per run. Use high resolution mass spectrometry for sample analysis.	ng/dscm ng/dscm @ 7% O <sub>2</sub>
Total Hydrocarbons (THC)	EPA Method 25A <sup>3</sup> . Concurrent with the EPA Method 23 testing.	ppmvd ppmvd @ 7% O <sub>2</sub>
Hydrogen Cyanide	EPA Method 320 <sup>4</sup> ; where entrained moisture droplets are present, Other Test Method 29 (OTM-29) should be used. For OTM-29, breakthrough must be determined according to section 9.2.1 and reported.	ppmvd ppmvd @ 7% O <sub>2</sub>
Gas flow rate <sup>5</sup>	EPA Method 2, 2A, 2B, 2C, 2D, 2F, or 2G, as appropriate, simultaneous with each pollutant test run.	acfm, scfm, and dscfm
Oxygen (O <sub>2</sub> ) and Carbon Dioxide (CO <sub>2</sub> ) <sup>5</sup>	EPA Method 3A, simultaneous with each pollutant test run.	percent volume, dry
Moisture <sup>5</sup>	EPA Method 4, simultaneous with each pollutant test run.	percent volume

<sup>1</sup> ppmvd = parts per million by volume, dry basis; dscf = dry standard cubic feet; dscm = dry standard cubic meters; acfm = actual cubic feet per minute; scfm = standard cubic feet per minute; dscfm = dry standard cubic feet per minute; ng/dscm – nanograms per dry standard cubic meter;

<sup>2</sup> The target analytes for PAH and PCB are presented in Tables 1.3 and 1.4 respectively.

<sup>3</sup> If the facility uses a THC CEM to demonstrate compliance, the facility CEM data may be substituted.

<sup>4</sup> For analyte spiking, you must use the analytes of interest; the use of surrogate compound(s) is prohibited for the purposes of this CAA section 114 request.

<sup>5</sup> Gas flow rate, O<sub>2</sub>/CO<sub>2</sub> and moisture are required for all tests.

Tables 1.3 and 1.4 provide a listing of target analytes for the PAH and PCB EPA Method 23 analysis, respectively. For copies of the EPA reference test methods and additional information, please refer to the EPA's Emission Measurement Center (EMC) website, <https://www.epa.gov/emc>.

Report all pollutant emissions test data using the units of measure indicated in Tables 1.1 and 1.2. Report the results of your emissions tests according to the directions provided in Section 2.0 of this document.

Unless otherwise specified, each pollutant emissions test should consist of at least 7 test runs for the sampling duration and/or volume indicated for each specified unit. Cement kilns with in-line raw mills are required to conduct 4 test runs with the raw mill on and 3 test runs with the raw mill off for each pollutant emissions test. For outlet testing, you should collect emissions samples at a location representing the composition of the flue gases at the exit to the atmosphere. For processes where emissions are controlled with an APCD, this location must be downstream of the last APCD the flue gases pass through before exiting to the atmosphere.

**Table 1.3: Target Analytes for PAH Testing**

Compound	CAS <sup>1</sup> Number	Compound	CAS Number
Naphthalene	91-20-3	Chrysene	218-01-9
2-Methylnaphthalene	91-57-6	Benzo[ <i>b</i> ]fluoranthene	205-99-2
Acenaphthylene	208-96-8	Benzo[ <i>k</i> ]fluoranthene	207-08-9
Acenaphthene	83-32-9	Perylene	198-55-8
Fluorene	86-73-7	Benzo[ <i>a</i> ]pyrene	50-32-8
Anthracene	120-12-7	Benzo[ <i>e</i> ]pyrene	192-97-2
Phenanthrene	85-01-8	Benzo[ <i>g,h,i</i> ]perylene	191-24-2
Fluoranthene	206-44-0	Indeno[ <i>1,2,3-cd</i> ]pyrene	193-39-5
Pyrene	129-00-0	Dibenz[ <i>a,h</i> ]anthracene	53-70-3
Benz[ <i>a</i> ]anthracene	56-55-3		

<sup>1</sup> Chemical Abstract Service.**Table 1.4: Target Analytes for PCB Testing**

PCB Congener	BZ No. <sup>1</sup>	CAS <sup>2</sup> Number	PCB Congener	BZ No. <sup>1</sup>	CAS <sup>2</sup> Number
2,4'-DiCB	8	34883-43-7	2,2',3,3',4,4'-HxCB	128	38380-07-3
2,2',5-TrCB	18	37680-65-2	2,2',3,4,4',5'-HxCB	138	35065-28-2
2,4,4'-TrCB	28	7012-37-5	2,2',4,4',5,5'-HxCB	153	35065-27-1
2,2',3,5'-TeCB	44	41464-39-5	2,3,3',4,4',5-HxCB	156	38380-08-4
2,2',5,5'-TeCB	52	35693-99-3	2,3,3',4,4',5'-HxCB	157	69782-90-7
2,3',4,4'-TeCB	66	32598-10-0	2,3',4,4',5,5'-HxCB	167	52663-72-6
3,3',4,4'-TeCB	77	32598-13-3	3,3',4,4',5,5'-HxCB	169	32774-16-6
3,4,4',5-TeCB	81	70362-50-4	2,2',3,3',4,4',5-HpCB	170	35065-30-6
2,2',4,5,5'-PeCB	101	37680-73-2	2,2',3,4,4',5,5'-HpCB	180	35065-29-3
2,3,3',4,4'-PeCB	105	32598-14-4	2,2',3,4',5,5',6-HpCB	187	52663-68-0
2,3,4,4',5-PeCB	114	74472-37-0	2,3,3',4,4',5,5'-HpCB	189	39635-31-9
2,3',4,4',5-PeCB	118	31508-00-6	2,2',3,3',4,4',5,6-OcCB	195	52663-78-2
2',3,4,4',5-PeCB	123	65510-44-3	2,2',3,3',4,4',5,5',6-NoCB	206	40186-72-9
3,3',4,4',5-PeCB	126	57465-28-8	2,2',3,3',4,4',5,5',6,6'-DeCB	209	2051-24-3

<sup>1</sup> BZ No.: Ballschmiter and Zell 1980, or International Union of Pure and Applied Chemistry (IUPAC) number<sup>2</sup> Chemical Abstract Service.

During testing, you should monitor, record, and report all the same process data required during a Comprehensive Performance Test for each test run. Provide the one-minute average of the corrected to 7% oxygen raw values in addition to hourly rolling average data for carbon monoxide or total hydrocarbons CEMS. Report the maximum, minimum, and the average of the one-minute averages of each parameter for each test run. If process units have combined emissions prior to the sampling location, describe each process unit contributing to the emissions. Submit all process data (including CEMs data) in a spreadsheet as an attachment to the ERT. For process data that you record during testing, make clear the correlation between emissions measurements and process data (e.g., identify Method 23, run 1 with the associated

process data on the process data details tab of the ERT or flag the data appropriately in the attached spreadsheet).

In addition to the typical operating parameters, the following must be determined and reported for each test run:

- Total bromine and total fluorine feedrate(s) as determined by the methods in Table 1.5.
- The PCB feedrate for each PCB fed as determined by process knowledge or existing waste stream analysis.

## ***1.2 Feedstream Analysis Procedures and Methods***

Please provide an analysis of each feedstream (both hazardous and non-hazardous) fed during each test run. A minimum of three subsamples must be collected during a test run and composited for analysis according to Table 1.5. Sections 1.2.1 through 1.2.3 provide directions for collecting, selecting, preparing, and analyzing feedstream samples.

### ***1.2.1 How to Collect a Feedstream Sample***

Each stream fed to the HWC during the test shall be sampled according to the procedures used during the most recent comprehensive performance test. For both liquid and solid materials, composite sampling shall be performed for the duration of each test run to produce a single composite sample of each feedstream which can be split for analysis. For gaseous streams such as natural gas and process vents, manufacturer specifications and process knowledge are sufficient; sampling is not required.

### ***1.2.2 Analyzing Feed Samples***

Analyze the feed samples according to the methods in Table 1.5.

**Table 1.5: List of Analytical Methods for Feed Sample Analysis**

<b>Analyte</b>	<b>Method</b>	<b>Target Reported Units of Measure</b>
Higher Heating Value	ASTM E711, ASTM D240; or equivalent <sup>a</sup>	Btu/lb
Fluorine and Bromine	EPA SW-846-5050; ASTM E776; EPA SW-846-9056; SW-846-9076; or equivalent <sup>a</sup>	mg/kg

<sup>a</sup> An equivalent method means a published Voluntary Consensus Standard (VCS) or EPA method for the same analyte (i.e., higher heating value, fluorine, or bromine).

### *1.3 Ensuring Data Quality of the Source Tests Performed*

While we are not specifying numerical minimum detection levels for the tests to be performed, we have specified the testing conditions and methods required, including test run sample volumes or times when appropriate, which we believe will provide data of a quality sufficient for decision making.

We remind source owners and testers of the CAA section 114(a)(1) requirement to provide information requested for the development of emissions standards using methods that provide data necessary for the decisions. That includes data of quality sufficient to support those decisions. For the most part, we can identify test methods and procedures that will satisfy those decision-making needs (e.g., minimum sampling times). In other cases, we recognize that the source owner's or tester's selection of test procedures or equipment could bear significantly on the quality of the data. See **Section 2.3** below for guidance for calculating and reporting values measured below method detection levels.

We believe that the CAA is clear in that it is the responsibility of the source and the tester to apply methods and procedures that result in data quality necessary for our decisions, including providing for the lowest possible detection limits considering practical and reasonable limitations. For example, source owners and testers should not automatically choose to use low or medium quality equipment for testing (e.g., for cost reasons) if high quality equipment is reasonably available. We will review test reports in light of this expectation and will be particularly mindful of whether the testing procedures applied are representative of the highest reasonably expected capabilities (e.g., comparing reported minimum measurement detection levels between tests and testers).

***If we believe that a source owner or tester has failed to meet the requirement of the CAA to provide data of sufficient quality or quantity for our decisions, we will request additional measurements that require the use of improved testing procedures.***

On completion of your required tests, please provide a complete stack test report, including appendices and results from feedstream analysis. A complete stack test report includes the following information, at a minimum:

- General identification information for the facility including a mailing address; the actual facility address; the owner or operator, responsible official, or an appropriate representative (where applicable) and an email address and telephone number for this person; and the appropriate Federal Registry System (FRS) number for the facility;
- For each process unit to be tested, type of hazardous waste combustor (e.g., incinerator, cement kiln, lightweight aggregate kiln, liquid fuel boiler, solid fuel boiler, hydrochloric acid production furnace);
- For each process unit to be tested, a complete unit description, including the sampling location(s), all feedstreams (including supplemental fuels) used during testing, the appropriate source classification code (SCC), and the latitude and longitude of the emission point being tested (decimal degrees to six decimal points);
- Emissions control measures in use during the test, including:
  - APCD description and APCD ID

- A description of any pollution prevention or other HAP emission reduction approaches being implemented during the test program;
- A description of the emission release point configuration, including the Release Point ID, particularly for process units with multiple emission release points and multiple process units sharing the same APCD;
- Sampling site description; description of sampling and analysis procedures and any modifications to standard procedures; quality assurance procedures;
- Description of any deviations from the test methods or other anomalies that occurred with the process or APCD operations during the test;
- Documentation of any samples reanalyzed to evaluate anomalies;
- Run-by-run emission data in units of concentration and lb/hr;
- Stack or exhaust gas flow rate (as determined using EPA Method 2 or alternatives) at the time of and during the emissions test, as appropriate;
- Any process data and APCD monitoring data required in this document;
- Sample calculations of all applicable stack gas parameters, emission rates and analytical results, as applicable. *Note: For each test method, provide a sample calculation of one test run in all reported units (lb/hr, ppmvd, etc.). For concentration calculations involving ppmv, make sure ppmv in every calculation step is noted as wet versus dry (i.e., ppmvw versus ppmvd). For THC concentrations, specify in each calculation step the basis (i.e., “as carbon”, “as propane”, “as methane”, etc.);*
- Raw data sheets for field sampling;
- Raw data sheets for field and laboratory analyses;
- Complete laboratory report, inclusive of chromatograms, etc.;
- Chain-of-custody documentation;
- Explanation of laboratory data qualifiers;
- Quality assurance and quality control activities performed;
- Identification information for the company conducting the emissions test including a contact person and his/her email address;
- Any other information required by the test method, a relevant standard, or the Administrator;
- The test plan; and
- For cement kilns, the percent of operating time with raw mill on and raw mill off while feeding hazardous waste for 2020, 2021, and 2022.

## 2.0 How to Report Data

The method for reporting the results of any testing and monitoring requests depends on the type of tests and the type of methods used to complete the test requirements. This section discusses the requirements for reporting the data.

## 2.1 *Reporting Using the EPA's Electronic Reporting Tool (ERT)*

You must report your data using the most recent version of the EPA's Electronic Reporting Tool (ERT). The ERT is a Microsoft Access® database application that must be downloaded onto your computer prior to data entry. If you are not a registered owner of Microsoft Access®, you can install the runtime version of the Microsoft Access.® The most recent ERT version is available at <https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>. The ERT supports importing data using Microsoft® Excel® import spreadsheets (which can be accessed at the above webpage) to document the collection of the field sampling data.

For Question 7a. of the ERT, for each sampling location, provide the corresponding information from Columns "Process Unit ID(s)," "Process Type Description," and "Control System (APCD ID)".

After completing the ERT, you will also need to attach an electronic copy of the emission test report including any associated feedstream analysis (PDF format preferred) to the Attachments module of the ERT. Both the ERT Access® database file and the emission test report should be transmitted to the EPA as specified below in Section 3.

Rename the ERT test results file according to this naming convention prior to submitting the file: *HWC\_ERT\_Results\_[Company]\_[City-StateAbbrev].accdb*. If multiple ERT files are generated for different HWC at the facility, please succinctly indicate the unit tested at the end of the file name. Submissions will not be accepted if the ERT is not used.

## 2.3 *Instructions for Calculating and Reporting Measurements Less Than In-Stack Method Detection Levels for Emissions Data Submitted in Response to the HWC Testing Request*

The section provides instructions on how to report sample mass measured from isokinetic (manual) test methods (Section 2.3.1) and concentration data measured from instrumental methods (Section 2.3.2) in the ERT.<sup>2</sup>

### 2.3.1 *Instructions for Reporting Sample Mass*

Sample mass from isokinetic/manual methods must be reported in the ERT. When entering a sample mass in the ERT please describe the detection status of the mass in the adjacent *Flag* column using one of the following acronyms:

- **BDL** (below detection level) – the analytical value(s) used to calculate the sample mass is less than the laboratory's reported detection level(s);
- **DLL** (detection level limited)<sup>3</sup> – at least one but not all analytical values used to calculate the sample mass are less than the laboratory's reported detection level(s); or

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<sup>2</sup> For ERT reporting, a facility enters in specific measurement data, which the ERT software uses to calculate emissions.

<sup>3</sup> The DLL description is for test results which have multiple reported fractions.

- **ADL** (above detection level) – the analytical value(s) used to calculate the sample mass is greater than the laboratory’s reported detection level(s).

**Note, if the detection status of the mass is “BDL”, then the sample mass entered should equal the full value of the analytical method detection limit (MDL).** You must use the method-specified approach for calculation and determination of the MDL. If the method does not specify the approach and calculation of the MDL, you must determine the MDL using the procedures specified in Section 15 of Method 301 (located in Appendix A of 40 CFR part 63).

For sample mass reported as BDL:

- Describe in the accompanying test report<sup>4</sup>, the procedures used to calculate the MDL including the measurements made, the standards used, and the statistical procedures applied. Note in the *Comments* column of the BDL value *where* in the test report this description is provided;
- For this request, calculate the corresponding emissions concentration and emissions rate using the full value of the MDL. Flag the calculated emissions concentration and emission rate with the same flag used to identify the sample mass, i.e., BDL, DLL, or ADL.

When entering a sample mass based on multiple reported fractions (for example, in the screen shot below):

- In the comment field, list each mass fraction in the order of the sample train with commas separating the individual values. If any fraction is below the detection limit, list it as a bracketed “less than” detection level value **equal to the MDL**;
- The sample mass should equal the sum of its fractional components including values reported at the MDL (i.e., bracketed less than values);
- If a sample mass is the sum of all BDL fractions, then the sample mass should be flagged as BDL (see chromium example below). If a sample mass consists of a combination of BDL and ADL fractions, then the sample mass should be flagged as “DLL” (see arsenic example below).

Compound	Mass	Units	Flag	Comments
Filterable Particulate	12.3	gm	ADL	
Arsenic	3.5	ug	DLL	[<1.00], 2.5
Cadmium	28.1	ug	ADL	26.8, 1.3
Chromium	2	mg	BDL	[<1.00], [<1.00]

<sup>4</sup> A test report must be submitted along with the HWC Testing Supplement and as part of a ERT submittal.



### 2.3.2 Instructions for Reporting Concentration Data

Instrumental test methods to be used in the HWC test request include EPA Methods 3A, 25A, and 320. For instrumental test methods, concentration rather than sample mass is reported for each test run. When reporting, flag “as measured” concentrations as BDL or ADL. For EPA Method 320, report BDL measurements at the minimum analyte concentration (or minimum analyte uncertainty, MAU), according to the method. Include in the accompanying test report relevant information relative to calibration gas values or other technical qualifiers for the measured data. For EPA Method 320, note in the *Comments* column of the emissions data *where* in the test report this information is provided.

## 3.0 How to Submit Emissions Test Data

Please review the materials gathered for your facility to respond to the test data request for the processes included in your section 114 letter according to this **Enclosure 1** to determine if you will claim any of the information as confidential business information (CBI). The **Enclosure 1** response for the testing conducted at each facility consists of the following (as applicable):

- ERT Access<sup>®</sup> database file(s) for the facility,
- Test report(s) including feedstream analysis for the facility (PDF format preferred), and
- Spreadsheet containing process data.

Each tested hazardous waste combustor must be in its own ERT database file.

If you claim CBI, you will need to separate your data into two portions (non-CBI and CBI) for submission to EPA using two different procedures. If you claim any CBI, create a non-CBI version of the **Enclosure 1** materials to be submitted with the CBI removed. Under CAA section 114(c), emissions data is not entitled to confidential treatment, and the EPA is required to make emissions data available to the public. Thus, emissions data will not be protected as CBI and will be made publicly available. Please refer to **Enclosure 3** to aid you in determining what information can be claimed confidential. Submit the non-CBI version of the **Enclosure 1** materials following the procedure in Section 3.1. Submit the CBI version following the procedure in section 3.2.

### 3.1 Non-confidential Data

To submit your non-confidential data including test data files (ERT Access<sup>®</sup> files, PDF test reports, and the process data spreadsheet):

Attach an electronic copy of the emission test report including feedstream analysis and the process data spreadsheet within the attachment module of the ERT. Create a project data set submission file from the ERT. Upload the project data set zip file with your non-CBI materials

into the EPA's Compliance and Emissions Data Reporting Interface (CEDRI)<sup>5</sup> following the instructions in CEDRI for submitting an "ICR ERT Performance Report." (*Note: Do not upload CBI into CEDRI.*)

### 3.2 ***Confidential Data***

If the process data or other information you are providing is considered confidential, you will need to prepare files containing ***only*** the confidential portion of your data and submit it electronically. Please refer to **Enclosure 3** to aid you in determining what information can be claimed confidential.

Electronic submissions must be transmitted ***directly*** and ***only*** to the OAQPS CBI Office at the email address [oaqpscbi@epa.gov](mailto:oaqpscbi@epa.gov), and should include clear CBI markings and be flagged to the attention of the Hazardous Waste Combustor Sector Lead. Do not copy the sector lead but flag it to their attention in the subject line and text of the email. If assistance is needed with submitting large electronic files that exceed the file size limit for email attachments, and if you do not have your own file sharing service, please email [oaqpscbi@epa.gov](mailto:oaqpscbi@epa.gov) to request a file transfer link. Information submitted to this mailbox will be retrieved and securely maintained on a restricted site limited to personnel with active CBI authorization.

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<sup>5</sup> Log in to CEDRI at <https://cdx.epa.gov/>. For more information on CEDRI visit <https://www.epa.gov/electronic-reporting-air-emissions/cedri>. Once logged in, select "Create a Report" and choose report type "Information Collection Request (ICR)." Use the green "Add" button to add the "Enclosure 1 Source Testing Request" report available for part 63 subpart EEE. Load the non-CBI zip file with your Enclosure 1 response, certify, and submit.

## 4.0 Additional Questions

For the questions in this section, please submit answers through CEDRI<sup>6</sup> as outlined in Section 3 by March 1, 2024.

1. Are you subject to 40 CFR part 63, subpart GGGGG, National Emission Standards for Hazardous Air Pollutants: Site Remediation?
2. Do you accept *remediation material* from a facility performing a remediation that is subject to 40 CFR part 63, subpart GGGGG, National Emission Standards for Hazardous Air Pollutants: Site Remediation?

The definition of *remediation material* found at 40 CFR part 63 subpart GGGGG, § 63.7957, reads as follows:

*Remediation material* means a material that contains one or more of the HAP listed in Table 1 of this subpart, and this material is one of the following:

- (1) A material found in naturally occurring media such as soil, groundwater, surface water, sediments, or a mixture of such materials with liquids, sludges, or solids which is inseparable by simple mechanical removal processes and is made up primarily of media. This material does not include debris as defined in 40 CFR 268.2.
- (2) A material found in intact or substantially intact containers, tanks, storage piles, or other storage units that requires clean up because this material poses a reasonable potential threat to contaminating media. Examples of these materials include, but are not limited to, solvents, oils, paints, and other volatile or semi-volatile organic liquids found in buried drums, cans, or other containers; gasoline, fuel oil, or other fuels in leaking underground storage tanks; and solid materials containing volatile or semi-volatile organics in unused or abandoned piles. Remediation material is not a waste or residue generated by routine equipment maintenance activities performed at a facility such as, but not limited to, tank bottoms and sludges removed during tank cleanouts; sludges and sediments removed from active wastewater treatment tanks, surface impoundments, or lagoons; spent catalyst removed from process equipment; residues removed from air pollution control equipment; and debris removed during heat exchanger and pipeline cleanouts.

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<sup>6</sup> Log in to CEDRI at <https://cdx.epa.gov/>. For more information on CEDRI visit <https://www.epa.gov/electronic-reporting-air-emissions/cedri>. Once logged in, select “Create a Report” and choose report type “Information Collection Request (ICR).” Select the ICR Questionnaire report type for this part of the submission. Use the green “Add” button to add the “ICR Questionnaire” report available for part 63 subpart EEE. Upload the non-CBI file with your Additional Questions response, certify, and submit.

## 5.0 Contact Information for Questions

For questions on how to report data using the ERT, contact one of the following:

Theresa Lowe  
U.S. EPA  
(919) 541-4786

[lowe.theresa@epa.gov](mailto:lowe.theresa@epa.gov)

Kevin McGinn  
U.S. EPA  
(919) 541-3796

[mcginn.kevin@epa.gov](mailto:mcginn.kevin@epa.gov)

For questions on the test methods, contact one of the following:

Ned Shappley  
U.S. EPA  
(919) 541-7903

[shappley.ned@epa.gov](mailto:shappley.ned@epa.gov)

Kevin McGinn  
U.S. EPA  
(919) 541-3796

[mcginn.kevin@epa.gov](mailto:mcginn.kevin@epa.gov)

Walter Lin  
U.S. EPA  
(919) 541-1341

[lin.walter@epa.gov](mailto:lin.walter@epa.gov)

For general questions, including emissions sources selected for testing and reporting mechanisms other than the ERT, contact:

Rachel Smoak  
U.S. EPA  
(919) 541-0253

[smoak.rachel@epa.gov](mailto:smoak.rachel@epa.gov)

## Appendix B: PROCESS MONITORING DATA

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**

			Run 1			Run 2			Run 3			Run 4		
			Average	Min	Max	Average	Min	Max	Average	Min	Max	Average	Min	Max
T-7051	Combustion Chamber Temperature	°C	880	875	883	880	876	883	880	875	883	880	876	883
T-7052	Combustion Chamber Temperature	°C	884	881	887	885	882	887	885	881	887	884	881	887
T-7053	Combustion Chamber Temperature	°C	879	876	882	880	877	882	880	876	882	879	875	882
CALC	Combustion Chamber Temperature Average	°C	881	878	884	881	878	884	881	877	884	881	877	884
F-7073	Stack Gas Flow Rate	kacfm	85.5	80.5	89.5	85.7	81.1	89.3	85.4	82.0	88.9	85.1	81.2	89.0
F-1105	Acrylic Acid Water Feed Rate	klb/hr	13.0	12.6	13.4	13.0	12.7	13.5	13.0	12.7	13.5	13.0	12.7	13.4
F-7062	AA-E2 Residue Feed Rate	lb/hr	1,001	967	1,090	1,002	978	1,086	996	920	1,081	1,005	976	1,098
F-7050	Fuel Gas Feed Rate	scfm	1,285	1,262	1,300	1,281	1,258	1,296	1,255	1,236	1,276	1,261	1,245	1,277
F-1026	Off Gas Feed Rate	scfm	19,482	18,623	20,140	19,499	18,905	20,248	19,298	18,440	20,127	19,178	18,251	19,821
P-7055	Acrylic Acid Water Atomizing Fluid Pressure	psig	129	129	130	129	128	130	129	129	130	129	128	130
A-7014	Corrected Stack Gas CO OMA	ppmv dry	4.41	2.71	7.42	4.18	2.50	6.51	4.40	2.78	6.71	6.03	3.43	9.72
A-7014	Corrected Stack Gas CO HRA	ppmv dry	3.33	3.10	3.67	3.06	2.99	3.14	3.12	2.58	3.48	4.33	3.64	4.60
A-7016	Stack Gas Oxygen	% vol dry	1.91	1.82	2.00	1.90	1.82	1.97	1.80	1.70	1.89	1.74	1.66	1.83

			Run 5			Run 6			Run 7			Avg of Avgs
			Average	Min	Max	Average	Min	Max	Average	Min	Max	
T-7051	Combustion Chamber Temperature	°C	879	874	883	880	876	883	880	874	884	880
T-7052	Combustion Chamber Temperature	°C	884	881	887	885	882	887	884	880	887	884
T-7053	Combustion Chamber Temperature	°C	880	877	882	879	877	881	879	876	881	879
CALC	Combustion Chamber Temperature Average	°C	881	878	884	881	879	884	881	877	884	881
F-7073	Stack Gas Flow Rate	kacfm	85.0	81.8	89.3	85.0	81.6	89.4	84.8	81.4	88.3	85.2
F-1105	Acrylic Acid Water Feed Rate	klb/hr	13.0	12.7	13.4	13.0	12.7	13.5	13.0	12.7	13.4	13.0
F-7062	AA-E2 Residue Feed Rate	lb/hr	998	974	1,107	1,002	968	1,103	997	918	1,087	1,000
F-7050	Fuel Gas Feed Rate	scfm	1,234	1,212	1,255	1,242	1,223	1,258	1,280	1,255	1,308	1,263
F-1026	Off Gas Feed Rate	scfm	19,277	18,414	19,992	19,222	18,444	19,971	19,209	18,391	19,926	19,309
P-7055	Acrylic Acid Water Atomizing Fluid Pressure	psig	130	129	131	130	129	131	129	128	130	129
A-7014	Corrected Stack Gas CO OMA	ppmv dry	3.90	2.52	5.81	4.87	3.42	7.19	5.13	2.87	7.91	4.70
A-7014	Corrected Stack Gas CO HRA	ppmv dry	2.76	2.10	3.10	3.51	3.20	3.66	3.60	3.06	3.95	3.39
A-7016	Stack Gas Oxygen	% vol dry	1.76	1.69	1.86	1.75	1.67	1.83	1.74	1.65	1.83	1.80

September 2024

BASFHWC-Freeport-001692

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	1
Date:	05/15/2024
Start Time:	09:13
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	13:21

Parameter	Units	Acrylic Acid Water	AA-E2 Residue
Heating value	Btu/lb	339	11,900

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
09:13	878	883	878	880	85.6	12.9	991
09:14	878	883	877	879	85.6	13.0	993
09:15	877	883	877	879	86.6	13.0	999
09:16	877	882	877	879	86.1	12.9	1,043
09:17	879	882	877	879	87.5	12.9	1,036
09:18	881	884	880	882	87.6	13.1	998
09:19	883	886	881	883	85.9	12.9	1,007
09:20	883	886	881	883	87.7	13.3	1,000
09:21	882	886	880	883	86.8	13.0	1,001
09:22	881	886	879	882	85.3	12.9	1,007
09:23	881	885	880	882	83.2	13.0	1,004
09:24	881	885	880	882	84.4	13.1	1,007
09:25	879	884	878	880	86.0	12.7	1,015
09:26	878	883	878	880	87.7	12.9	1,011
09:27	877	883	877	879	86.4	12.9	1,032
09:28	878	882	877	879	86.6	12.9	1,018
09:29	879	883	879	880	87.4	13.0	1,007
09:30	879	883	878	880	87.7	13.0	1,001
09:31	880	884	879	881	86.1	13.1	1,010
09:32	881	885	880	882	85.2	13.1	1,004
09:33	881	886	880	882	86.1	12.8	1,003
09:34	881	885	880	882	84.7	12.6	1,005
09:35	880	885	880	882	83.3	12.8	1,023
09:36	881	885	879	882	85.0	13.1	1,008
09:37	880	885	879	881	86.5	13.0	1,008
09:38	879	884	878	880	86.1	13.1	1,010
09:39	878	883	878	880	84.4	13.0	1,003
09:40	879	883	878	880	86.8	13.0	998
09:41	879	884	878	880	85.4	13.0	1,006
09:42	879	884	878	880	84.1	12.9	1,003
09:43	880	884	879	881	85.3	13.1	1,002
09:44	882	885	880	883	83.8	12.9	1,002
09:45	882	886	880	883	84.0	13.0	1,003
09:46	881	885	879	882	87.7	13.0	1,004
09:47	880	885	879	882	87.8	12.8	1,000
09:48	881	885	880	882	83.0	13.0	999
09:49	880	885	879	882	86.6	13.0	1,010
09:50	879	884	878	880	86.1	13.2	1,005
09:51	879	883	877	880	86.2	12.9	1,004
09:52	879	883	877	880	84.4	13.0	1,014
09:53	880	883	878	880	83.7	13.0	1,014
09:54	880	884	878	881	86.4	13.0	1,002
09:55	880	884	879	881	89.5	12.9	1,005
09:56	880	884	879	881	84.4	13.0	994
09:57	881	885	880	882	84.8	13.2	1,000
09:58	880	885	879	881	87.5	13.1	993
09:59	880	885	879	881	85.8	13.2	993
10:00	880	885	880	882	83.0	13.3	999
10:01	881	885	880	882	84.5	13.3	999
10:02	881	885	880	882	85.3	13.1	1,010
10:03	882	885	880	882	86.7	12.7	1,008

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
10:04	881	886	880	882	85.5	13.0	1,004
10:05	880	885	879	881	86.9	13.0	1,005
10:06	879	884	878	880	83.7	13.2	1,001
10:07	877	883	877	879	85.2	13.0	988
10:08	877	882	876	878	84.3	13.0	994
10:09	879	883	878	880	85.4	12.9	993
10:10	880	884	879	881	86.8	13.0	993
10:11	881	884	879	881	88.3	13.1	993
10:12	881	885	879	882	86.1	12.9	1,005
10:13	882	886	880	882	85.6	13.0	992
10:14	881	885	880	882	85.9	13.0	985
10:15	881	885	879	882	85.6	12.9	1,004
10:16	881	885	880	882	84.3	13.1	1,025
10:17	881	885	879	882	85.7	13.0	1,003
10:18	880	885	879	881	87.1	12.9	997
10:19	879	884	879	881	87.0	13.0	1,006
10:20	878	884	878	880	85.1	13.1	999
10:21	877	883	877	879	83.8	13.2	1,000
10:22	877	882	877	879	86.8	13.0	1,002
10:23	878	882	877	879	86.4	12.8	1,016
10:24	879	883	878	880	88.1	13.0	1,016
10:25	882	885	880	882	87.0	13.0	1,014
10:26	883	886	881	883	88.4	13.1	998
10:27	883	886	881	883	86.2	13.1	994
10:28	882	886	880	883	86.3	12.8	990
10:29	881	886	879	882	86.7	12.9	1,004
10:30	881	885	879	881	86.7	12.9	990
10:31	879	884	878	881	86.6	13.0	998
10:32	879	884	878	880	82.1	13.0	996
10:33	879	884	878	880	85.7	13.1	1,002
10:34	879	883	878	880	85.4	13.0	1,013
10:35	879	883	878	880	86.5	12.9	1,001
10:36	879	883	878	880	84.3	13.0	999
10:37	879	883	878	880	84.9	13.0	1,009
10:38	880	884	879	881	84.5	13.1	999
10:39	881	885	879	882	85.8	12.9	1,016
10:40	882	885	880	882	88.4	13.0	1,010
10:41	882	886	880	883	85.9	12.9	1,029
10:42	882	886	880	883	84.5	13.1	1,015
10:43	881	886	880	882	86.7	13.0	998
10:44	880	885	879	881	85.5	13.0	1,007
10:45	879	884	879	880	83.7	13.1	1,014
10:46	877	883	878	880	85.4	13.1	1,032
10:47	878	883	878	880	85.3	13.2	1,090
10:48	879	884	878	880	85.8	13.0	1,038
10:49	878	883	877	880	87.2	13.0	1,013
10:50	878	883	878	880	83.6	13.0	1,004
10:51	880	884	879	881	84.5	13.2	989
10:52	881	884	879	882	85.3	13.1	998
10:53	882	885	880	882	83.8	12.9	999
10:54	882	886	880	883	85.6	13.1	1,000
10:55	882	886	880	883	89.4	13.3	995
10:56	882	886	880	883	86.1	13.2	996
10:57	882	886	880	883	87.4	13.1	1,015
10:58	880	885	878	881	85.4	13.0	1,004
10:59	880	884	878	880	86.2	13.0	1,022
11:00	880	884	878	880	84.8	12.9	998
11:01	878	883	878	880	83.2	12.8	994
11:02	877	882	877	879	84.5	13.1	995
11:03	877	882	876	878	84.5	13.0	1,007
11:04	878	882	877	879	84.8	12.9	1,008
11:05	880	883	878	880	87.2	13.0	1,002
11:06	882	885	880	882	85.2	13.0	994



**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
11:07	882	886	880	883	87.3	12.8	987
11:08	882	886	880	882	86.4	13.1	995
11:09	881	886	880	882	84.0	13.1	986
11:10	881	885	879	882	85.8	12.7	995
11:11	882	885	879	882	84.4	12.8	992
11:12	880	885	879	882	85.4	13.1	991
11:13	877	884	878	880	82.5	13.4	984
11:14	875	882	876	878	83.9	12.8	986
11:15	876	881	876	878	84.4	13.1	1,004
11:16	878	882	878	880	86.6	13.3	983
11:17	881	884	880	882	84.9	13.0	974
11:18	882	886	880	883	84.3	13.0	981
11:19	883	886	881	883	86.7	13.1	982
11:20	883	887	881	884	87.0	13.4	985
11:21	883	887	880	883	85.4	13.1	990
11:22	881	885	879	882	85.6	13.2	979
11:23	880	885	878	881	84.4	12.9	994
11:24	879	884	878	880	85.8	13.0	1,011
11:25	878	883	878	880	84.8	13.1	978
11:26	878	883	877	880	85.0	12.9	974
11:27	878	883	877	880	86.5	13.0	975
11:28	879	883	878	880	87.4	12.9	967
11:29	879	883	878	880	84.3	13.1	968
11:30	880	884	879	881	85.4	13.2	969
11:31	881	885	880	882	86.1	13.3	968
11:32	881	886	880	882	85.1	13.0	967
11:33	880	885	879	882	84.0	12.9	972
11:34	881	885	880	882	84.8	12.9	977
11:35	881	885	880	882	86.7	13.3	987
11:36	879	884	878	880	85.6	13.1	976
11:37	880	884	879	881	84.8	12.9	996
11:38	879	884	878	881	85.8	12.9	986
11:39	878	883	878	880	87.3	12.9	988
11:40	879	883	878	880	85.1	13.1	984
11:41	880	884	879	881	87.6	13.0	982
11:42	881	885	879	882	87.3	13.0	994
11:43	882	885	879	882	87.2	13.2	987
11:44	882	885	879	882	87.0	13.1	991
11:45	882	885	880	882	87.5	13.2	992
11:46	882	886	880	882	84.2	13.2	991
11:47	881	885	879	882	86.0	12.8	992
11:48	880	884	879	881	84.2	13.1	985
11:49	879	884	879	880	85.4	12.9	985
11:50	879	884	879	880	84.8	12.9	985
11:51	879	884	879	881	84.6	12.9	983
11:52	880	884	879	881	84.9	12.8	990
11:53	879	884	879	881	85.3	13.1	986
11:54	879	884	879	881	86.8	13.1	984
11:55	879	884	879	881	84.4	13.2	992
11:56	878	884	878	880	87.0	13.1	982
11:57	880	884	879	881	86.2	13.0	982
11:58	882	885	880	882	86.0	12.9	977
11:59	882	886	880	883	86.9	12.9	971
12:00	881	885	879	882	86.1	12.8	977
12:01	881	885	880	882	85.7	13.0	978
12:02	882	886	880	883	84.2	13.3	977
12:03	881	886	880	882	85.1	13.2	981
12:04	880	885	880	882	83.7	13.0	986
12:05	879	884	879	881	85.9	12.9	979
12:06	878	884	879	880	81.7	13.1	985
12:07	879	884	879	881	84.7	13.1	997
12:08	879	884	879	880	85.3	12.9	988
12:09	879	884	878	880	85.4	13.2	989

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
12:10	880	884	879	881	84.9	13.0	989
12:11	880	885	880	882	87.0	12.9	995
12:12	881	885	880	882	84.7	13.1	1,003
12:13	882	886	881	883	82.9	12.9	999
12:14	881	886	880	883	83.4	13.2	996
12:15	881	885	879	882	81.7	13.3	994
12:16	880	884	878	881	85.9	13.1	994
12:17	879	884	878	880	86.1	12.8	999
12:18	879	883	878	880	82.2	13.1	1,007
12:19	879	883	878	880	86.0	13.2	1,000
12:20	879	883	878	880	84.2	13.2	992
12:21	880	884	879	881	84.0	13.0	985
12:22	881	885	880	882	84.7	13.0	995
12:23	882	886	881	883	84.6	13.0	981
12:24	882	886	881	883	86.7	13.1	997
12:25	882	886	881	883	84.8	13.0	992
12:26	881	886	880	882	84.2	13.2	992
12:27	879	885	879	881	82.2	13.1	993
12:28	877	883	877	879	85.3	13.1	989
12:29	876	882	876	878	86.4	13.0	994
12:30	878	883	878	880	86.7	13.0	1,028
12:31	879	884	879	881	88.3	13.1	1,034
12:32	879	884	879	880	85.1	13.1	1,025
12:33	880	884	879	881	84.4	13.0	1,027
12:34	880	885	880	882	85.5	13.0	1,018
12:35	881	885	881	882	85.4	13.0	1,006
12:36	882	886	881	883	86.8	13.0	1,021
12:37	882	887	881	883	83.7	12.9	1,022
12:38	881	886	880	883	83.6	13.0	1,010
12:39	882	886	881	883	80.5	13.0	1,006
12:40	881	886	880	883	86.8	12.9	1,012
12:41	880	885	880	882	88.4	13.0	1,000
12:42	879	885	880	881	86.8	13.0	1,011
12:43	878	884	878	880	84.0	13.2	1,015
12:44	877	883	878	879	83.4	13.3	1,004
12:45	878	883	879	880	85.0	12.8	1,011
12:46	878	883	879	880	86.2	12.8	1,023
12:47	877	883	878	879	86.3	12.8	1,028
12:48	879	883	878	880	84.1	12.8	1,018
12:49	880	884	879	881	83.8	12.9	1,020
12:50	880	885	879	881	85.4	13.2	1,001
12:51	881	885	880	882	86.7	13.0	1,002
12:52	881	886	881	882	84.2	13.1	1,039
12:53	882	887	882	884	86.8	13.0	1,082
12:54	882	886	880	883	85.1	12.9	1,043
12:55	880	885	879	881	85.6	12.7	1,030
12:56	879	884	879	880	83.6	13.0	1,014
12:57	880	884	880	881	84.9	12.9	1,021
12:58	879	885	880	881	84.0	13.0	1,010
12:59	879	884	880	881	83.0	12.9	1,005
13:00	879	884	878	880	85.4	13.1	1,011
13:01	879	884	879	881	85.0	13.1	1,011
13:02	880	884	880	881	85.6	12.9	1,015
13:03	880	885	880	881	86.6	12.9	1,009
13:04	880	885	880	882	86.1	12.9	1,009
13:05	880	885	879	881	88.4	13.0	1,016
13:06	879	884	879	881	84.8	13.2	1,007
13:07	879	884	880	881	82.8	12.8	1,018
13:08	880	885	881	882	83.5	13.0	1,029
13:09	880	885	880	882	85.2	13.0	1,012
13:10	881	885	879	882	85.2	13.1	1,003
13:11	880	885	879	882	88.3	13.2	991
13:12	880	885	879	881	86.9	13.3	994

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
13:13	880	884	879	881	86.3	13.0	1,010
13:14	881	885	880	882	85.4	13.0	1,005
13:15	880	885	880	882	88.1	13.2	1,001
13:16	879	885	880	881	86.2	13.0	997
13:17	879	885	879	881	85.8	12.9	1,000
13:18	878	884	879	880	85.0	12.9	999
13:19	879	884	880	881	84.9	13.2	991
13:20	880	885	880	882	84.8	13.1	998
13:21	880	885	880	882	85.2	12.9	1,002
Average	880	884	879	881	85.5	13.0	1,001
Minimum	875	881	876	878	80.5	12.6	967
Maximum	883	887	882	884	89.5	13.4	1,090

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	1
Date:	05/15/2024
Start Time:	09:13
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	13:21

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
09:13	1,270	19,720	130	6.97	3.67	1.91
09:14	1,272	19,438	130	5.20	3.67	1.90
09:15	1,280	19,417	130	3.82	3.66	1.96
09:16	1,280	19,587	129	4.61	3.65	1.94
09:17	1,286	19,378	129	5.64	3.64	1.94
09:18	1,291	19,212	129	4.55	3.63	1.94
09:19	1,292	19,656	129	2.97	3.63	1.92
09:20	1,293	19,291	130	4.40	3.62	1.91
09:21	1,287	19,604	129	3.65	3.59	1.95
09:22	1,285	19,477	129	3.10	3.57	1.92
09:23	1,284	19,411	129	4.60	3.57	1.91
09:24	1,270	19,150	129	4.30	3.56	1.93
09:25	1,266	19,418	129	4.00	3.56	1.91
09:26	1,269	19,418	129	4.35	3.55	1.98
09:27	1,270	19,645	130	4.90	3.54	1.94
09:28	1,280	19,845	130	4.69	3.53	1.98
09:29	1,284	19,635	130	6.17	3.52	1.96
09:30	1,290	20,094	130	4.76	3.51	1.97
09:31	1,294	19,671	129	4.74	3.51	1.96
09:32	1,290	19,275	129	4.14	3.49	1.95
09:33	1,288	19,052	130	4.36	3.47	1.96
09:34	1,288	18,938	130	4.33	3.46	1.95
09:35	1,279	18,990	129	4.04	3.45	1.93
09:36	1,284	19,265	130	3.91	3.45	1.97
09:37	1,281	19,064	130	4.52	3.44	1.95
09:38	1,285	19,768	130	4.71	3.44	1.99
09:39	1,287	19,625	130	4.45	3.45	2.00
09:40	1,290	19,774	130	4.00	3.44	1.98
09:41	1,289	19,533	130	3.87	3.44	1.97
09:42	1,289	19,331	130	4.27	3.44	1.97
09:43	1,294	19,447	130	4.88	3.44	1.97
09:44	1,291	19,429	130	4.71	3.43	1.92
09:45	1,290	19,650	130	4.13	3.42	1.95
09:46	1,291	19,242	130	4.34	3.40	1.98
09:47	1,287	19,540	129	5.28	3.39	1.96
09:48	1,289	19,373	130	4.87	3.37	1.99
09:49	1,288	19,283	130	5.15	3.37	1.98
09:50	1,288	19,168	130	4.11	3.38	2.00
09:51	1,287	19,563	130	3.96	3.38	1.98
09:52	1,284	19,638	130	4.64	3.38	1.98
09:53	1,286	19,870	130	4.90	3.37	1.94
09:54	1,283	19,871	130	4.63	3.37	1.97
09:55	1,291	20,109	130	3.99	3.36	1.95
09:56	1,289	19,657	129	4.85	3.36	1.94
09:57	1,289	19,370	129	5.17	3.34	1.96
09:58	1,288	19,737	129	3.62	3.34	1.92
09:59	1,286	20,050	129	4.16	3.34	1.93
10:00	1,287	19,614	129	4.07	3.32	1.94
10:01	1,288	19,448	129	3.71	3.30	1.94
10:02	1,287	18,623	129	3.72	3.27	1.95
10:03	1,287	19,700	129	4.11	3.26	1.91

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
10:04	1,281	19,449	129	4.02	3.25	1.93
10:05	1,278	19,607	129	5.29	3.25	1.91
10:06	1,273	19,367	130	4.77	3.25	1.92
10:07	1,275	19,842	130	5.03	3.26	1.96
10:08	1,279	19,490	130	7.42	3.26	1.93
10:09	1,291	19,241	130	6.44	3.29	1.93
10:10	1,297	19,199	130	4.94	3.32	1.92
10:11	1,296	19,273	130	4.22	3.34	1.93
10:12	1,297	19,282	130	3.61	3.34	1.92
10:13	1,293	19,278	130	4.42	3.34	1.90
10:14	1,294	19,580	130	4.18	3.33	1.92
10:15	1,290	19,809	130	3.47	3.31	1.93
10:16	1,285	19,458	130	3.99	3.30	1.88
10:17	1,284	19,411	130	3.68	3.29	1.93
10:18	1,286	19,211	130	4.31	3.28	1.95
10:19	1,286	18,999	129	3.63	3.27	1.89
10:20	1,282	19,258	129	4.54	3.27	1.92
10:21	1,279	19,608	129	4.46	3.27	1.94
10:22	1,280	19,564	129	5.49	3.29	1.93
10:23	1,281	20,024	129	5.86	3.30	1.91
10:24	1,291	20,025	130	4.59	3.31	1.92
10:25	1,290	19,913	130	4.17	3.32	1.90
10:26	1,288	19,300	129	4.68	3.33	1.89
10:27	1,289	19,564	129	4.15	3.32	1.92
10:28	1,290	19,432	130	4.65	3.32	1.91
10:29	1,291	19,239	130	4.10	3.32	1.92
10:30	1,284	19,434	130	4.46	3.31	1.95
10:31	1,288	19,022	130	4.58	3.29	1.92
10:32	1,289	19,765	130	4.51	3.30	1.92
10:33	1,283	19,807	130	4.04	3.31	1.97
10:34	1,282	19,122	130	4.67	3.31	1.93
10:35	1,282	18,997	130	4.31	3.31	1.92
10:36	1,284	19,405	129	4.90	3.32	1.89
10:37	1,290	19,833	129	4.64	3.33	1.91
10:38	1,288	19,641	129	4.08	3.34	1.86
10:39	1,289	18,962	129	5.03	3.34	1.94
10:40	1,287	19,522	129	4.14	3.33	1.93
10:41	1,289	19,140	129	4.49	3.33	1.92
10:42	1,285	19,360	129	3.53	3.33	1.90
10:43	1,284	18,999	129	3.80	3.33	1.90
10:44	1,270	19,223	129	4.68	3.32	1.90
10:45	1,274	19,644	129	5.81	3.31	1.93
10:46	1,272	19,357	130	5.41	3.31	1.94
10:47	1,262	19,291	130	4.05	3.32	1.91
10:48	1,276	19,012	130	4.60	3.32	1.94
10:49	1,285	19,394	130	5.20	3.31	1.92
10:50	1,283	19,587	130	4.77	3.30	1.91
10:51	1,293	19,137	130	4.83	3.31	1.90
10:52	1,295	19,618	129	4.11	3.31	1.90
10:53	1,296	19,270	130	4.16	3.32	1.92
10:54	1,290	19,675	130	4.37	3.31	1.88
10:55	1,287	19,617	130	5.00	3.31	1.92
10:56	1,289	19,349	130	4.48	3.31	1.92
10:57	1,285	20,042	130	4.43	3.32	1.93
10:58	1,283	19,702	129	4.73	3.32	1.96
10:59	1,279	19,162	129	4.69	3.32	1.97
11:00	1,283	19,675	129	4.28	3.33	1.93
11:01	1,275	19,405	129	4.67	3.34	1.91
11:02	1,270	19,637	129	5.30	3.34	1.93
11:03	1,279	19,533	129	6.00	3.35	1.94
11:04	1,285	19,267	129	4.15	3.36	1.94
11:05	1,289	19,396	129	4.70	3.39	1.89
11:06	1,291	19,846	129	4.12	3.40	1.88

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:07	1,293	19,419	129	3.99	3.39	1.90
11:08	1,293	19,583	129	4.29	3.38	1.92
11:09	1,291	19,440	129	4.40	3.36	1.95
11:10	1,290	18,828	129	3.98	3.33	1.94
11:11	1,291	18,967	130	4.76	3.30	1.92
11:12	1,284	19,149	130	4.50	3.30	1.93
11:13	1,279	19,595	130	4.26	3.31	1.97
11:14	1,276	20,011	130	5.29	3.32	1.97
11:15	1,283	19,578	130	6.02	3.33	1.98
11:16	1,294	19,446	130	5.40	3.34	1.91
11:17	1,300	19,300	130	3.80	3.36	1.91
11:18	1,299	19,626	130	3.58	3.38	1.90
11:19	1,292	19,395	130	4.33	3.38	1.89
11:20	1,294	19,134	130	3.66	3.38	1.89
11:21	1,288	19,352	130	4.16	3.38	1.92
11:22	1,286	19,140	129	3.94	3.38	1.89
11:23	1,287	19,410	130	4.82	3.37	1.95
11:24	1,279	19,526	129	5.19	3.36	1.90
11:25	1,288	19,051	129	4.21	3.36	1.92
11:26	1,282	19,574	129	4.85	3.36	1.96
11:27	1,290	19,499	129	5.76	3.37	1.95
11:28	1,293	19,325	129	3.73	3.38	1.92
11:29	1,292	19,358	129	3.55	3.39	1.90
11:30	1,286	19,537	130	3.48	3.39	1.86
11:31	1,291	19,643	129	3.83	3.38	1.91
11:32	1,293	19,613	129	4.04	3.38	1.89
11:33	1,288	19,554	130	3.19	3.37	1.90
11:34	1,285	19,842	129	4.63	3.37	1.88
11:35	1,286	19,410	129	4.29	3.36	1.88
11:36	1,289	19,211	129	4.50	3.35	1.95
11:37	1,288	19,504	129	4.55	3.36	1.88
11:38	1,282	19,551	129	4.54	3.35	1.88
11:39	1,287	19,474	129	4.20	3.35	1.88
11:40	1,289	19,660	129	4.09	3.36	1.92
11:41	1,290	18,980	130	4.62	3.36	1.91
11:42	1,293	19,511	129	5.02	3.36	1.92
11:43	1,291	19,490	129	4.83	3.37	1.90
11:44	1,291	19,793	129	3.95	3.38	1.90
11:45	1,289	19,337	129	4.92	3.39	1.89
11:46	1,285	19,345	129	4.07	3.39	1.90
11:47	1,284	19,882	129	4.25	3.38	1.90
11:48	1,283	19,670	129	4.54	3.38	1.88
11:49	1,281	19,745	129	3.92	3.37	1.86
11:50	1,284	19,664	129	4.28	3.36	1.91
11:51	1,281	19,637	129	4.43	3.34	1.88
11:52	1,277	19,544	129	5.05	3.33	1.84
11:53	1,278	19,498	130	4.89	3.33	1.89
11:54	1,282	19,373	130	5.63	3.33	1.88
11:55	1,281	19,394	130	5.16	3.34	1.90
11:56	1,289	19,734	130	4.56	3.35	1.89
11:57	1,292	19,222	130	4.45	3.35	1.91
11:58	1,295	19,308	130	3.79	3.35	1.89
11:59	1,295	19,432	130	4.24	3.34	1.86
12:00	1,292	19,671	130	4.44	3.33	1.90
12:01	1,289	19,541	130	4.56	3.32	1.87
12:02	1,289	19,609	130	4.00	3.32	1.90
12:03	1,284	19,366	130	4.31	3.32	1.90
12:04	1,277	19,907	130	4.93	3.30	1.91
12:05	1,275	20,140	130	4.73	3.27	1.91
12:06	1,277	19,733	130	5.41	3.26	1.87
12:07	1,276	19,077	130	5.48	3.28	1.90
12:08	1,280	19,031	130	5.10	3.29	1.89
12:09	1,284	19,274	130	5.14	3.31	1.90

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
12:10	1,291	19,315	129	3.81	3.32	1.85
12:11	1,285	19,215	130	3.51	3.32	1.83
12:12	1,287	19,281	129	3.27	3.32	1.84
12:13	1,284	19,259	129	3.57	3.31	1.87
12:14	1,282	19,288	129	4.26	3.29	1.87
12:15	1,284	19,800	130	4.89	3.29	1.89
12:16	1,283	19,516	129	3.48	3.27	1.93
12:17	1,284	19,009	129	4.22	3.26	1.95
12:18	1,281	19,409	129	5.18	3.25	1.90
12:19	1,284	19,532	129	3.81	3.24	1.87
12:20	1,285	19,473	129	4.14	3.26	1.89
12:21	1,286	19,375	129	4.20	3.25	1.88
12:22	1,289	19,712	130	3.79	3.24	1.88
12:23	1,286	19,418	130	4.63	3.24	1.83
12:24	1,284	19,647	130	4.10	3.23	1.86
12:25	1,279	19,424	130	4.45	3.23	1.83
12:26	1,272	19,345	130	4.26	3.21	1.88
12:27	1,273	19,460	129	5.03	3.20	1.93
12:28	1,267	19,706	129	7.07	3.20	1.91
12:29	1,273	19,688	129	6.20	3.20	1.93
12:30	1,281	19,463	129	5.37	3.23	1.86
12:31	1,280	19,401	129	4.50	3.26	1.86
12:32	1,283	19,618	129	5.09	3.27	1.85
12:33	1,286	19,504	129	4.40	3.28	1.86
12:34	1,289	19,562	130	3.31	3.29	1.86
12:35	1,291	19,642	130	3.39	3.28	1.86
12:36	1,288	19,903	130	3.78	3.28	1.85
12:37	1,282	19,668	130	3.56	3.27	1.82
12:38	1,283	19,620	130	3.77	3.25	1.86
12:39	1,277	18,992	130	3.62	3.24	1.88
12:40	1,279	19,465	130	4.72	3.24	1.87
12:41	1,274	19,389	130	4.99	3.22	1.88
12:42	1,265	19,699	130	5.52	3.22	1.85
12:43	1,272	19,623	130	5.37	3.22	1.89
12:44	1,276	19,224	130	3.99	3.22	1.91
12:45	1,278	19,466	130	3.96	3.24	1.87
12:46	1,275	19,402	130	4.27	3.25	1.84
12:47	1,269	19,610	130	4.96	3.25	1.83
12:48	1,284	19,458	129	4.86	3.24	1.91
12:49	1,290	19,812	130	4.55	3.25	1.89
12:50	1,289	19,303	130	3.24	3.27	1.89
12:51	1,289	19,278	129	4.20	3.28	1.90
12:52	1,286	19,558	130	4.30	3.27	1.90
12:53	1,274	19,937	130	2.96	3.26	1.84
12:54	1,279	19,986	129	4.69	3.25	1.90
12:55	1,281	19,966	130	4.74	3.25	1.93
12:56	1,283	19,347	129	5.08	3.24	1.90
12:57	1,284	19,350	129	3.86	3.24	1.89
12:58	1,280	19,761	129	3.65	3.24	1.87
12:59	1,280	19,196	129	3.64	3.24	1.87
13:00	1,283	19,557	129	4.36	3.24	1.86
13:01	1,282	19,683	129	4.27	3.24	1.90
13:02	1,279	19,782	129	3.59	3.23	1.89
13:03	1,283	19,423	129	4.24	3.22	1.83
13:04	1,280	19,705	129	4.07	3.22	1.87
13:05	1,281	19,918	129	3.96	3.22	1.93
13:06	1,283	19,530	129	3.98	3.21	1.89
13:07	1,279	19,138	129	3.83	3.19	1.85
13:08	1,277	19,761	129	4.11	3.17	1.84
13:09	1,283	19,398	129	4.57	3.15	1.87
13:10	1,288	19,596	129	4.11	3.15	1.92
13:11	1,286	19,479	129	2.71	3.16	1.90
13:12	1,286	19,298	129	3.38	3.16	1.88

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 1**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
13:13	1,288	19,337	129	3.95	3.16	1.87
13:14	1,287	19,248	129	3.31	3.16	1.87
13:15	1,288	19,723	129	3.07	3.16	1.87
13:16	1,288	19,966	129	3.59	3.15	1.93
13:17	1,289	19,456	129	4.14	3.13	1.92
13:18	1,290	19,646	129	3.25	3.13	1.92
13:19	1,289	19,779	129	2.73	3.13	1.87
13:20	1,290	19,117	129	3.41	3.11	1.91
13:21	1,292	19,528	129	3.96	3.10	1.93
Average	1,285	19,482	129	4.41	3.33	1.91
Minimum	1,262	18,623	129	2.71	3.10	1.82
Maximum	1,300	20,140	130	7.42	3.67	2.00



**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	2
Date:	05/15/2024
Start Time:	14:02
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	18:07

Parameter	Units	Acrylic Acid Water	AA-E2 Residue
Heating value	Btu/lb	449	11,800

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
14:02	880	884	880	881	84.7	13.2	993
14:03	880	884	880	881	87.4	12.9	997
14:04	879	884	879	881	85.9	13.1	1,020
14:05	879	884	879	881	84.5	12.8	1,011
14:06	880	884	879	881	85.2	13.1	1,000
14:07	881	885	880	882	86.0	13.0	995
14:08	881	885	880	882	85.4	13.0	999
14:09	881	885	880	882	85.1	12.7	999
14:10	882	886	881	883	86.3	13.0	991
14:11	882	886	881	883	86.2	13.1	998
14:12	880	886	880	882	83.1	13.3	1,002
14:13	880	885	880	882	83.0	13.2	1,004
14:14	880	885	880	882	86.1	13.1	1,009
14:15	879	885	879	881	87.5	13.0	1,012
14:16	879	884	879	881	85.9	13.0	1,000
14:17	879	884	879	881	85.4	12.8	1,000
14:18	878	884	879	880	88.0	13.0	1,000
14:19	878	883	878	880	88.1	12.9	1,003
14:20	879	883	878	880	85.3	13.0	1,005
14:21	879	883	878	880	87.9	13.0	993
14:22	879	883	879	880	89.1	13.1	994
14:23	880	884	879	881	86.8	13.0	988
14:24	880	884	880	881	85.7	13.0	990
14:25	880	885	880	881	83.6	13.1	996
14:26	880	885	880	882	89.3	13.2	989
14:27	880	885	880	881	86.4	13.0	991
14:28	881	885	880	882	83.7	12.9	990
14:29	881	886	880	882	85.7	13.1	993
14:30	881	886	881	882	87.4	13.0	991
14:31	881	886	881	883	85.0	12.9	1,003
14:32	881	886	881	883	87.4	12.9	1,006
14:33	882	886	881	883	86.4	13.5	997
14:34	883	887	882	884	83.6	13.0	999
14:35	881	886	880	882	82.6	12.9	1,005
14:36	880	886	880	882	87.0	12.9	1,016
14:37	879	884	879	881	86.7	12.9	1,008
14:38	878	884	878	880	83.3	12.8	1,012
14:39	879	883	878	880	86.1	12.8	1,020
14:40	880	884	880	881	85.4	12.8	1,009
14:41	880	885	880	882	85.2	13.2	1,001
14:42	880	885	880	882	86.5	13.0	1,002
14:43	881	885	881	882	84.7	13.0	997
14:44	881	886	881	882	87.1	12.9	1,010
14:45	882	886	881	883	86.0	13.1	997
14:46	880	885	880	882	86.1	13.3	995
14:47	879	885	879	881	84.3	12.9	998
14:48	879	885	880	881	86.4	12.8	1,004
14:49	879	884	880	881	87.6	13.1	1,014
14:50	879	884	880	881	85.0	12.8	997
14:51	879	884	880	881	85.6	13.1	999
14:52	879	884	879	881	86.2	13.0	1,000

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
14:53	879	884	879	880	84.8	13.0	995
14:54	878	884	879	880	81.1	13.3	988
14:55	879	884	880	881	83.9	13.0	996
14:56	880	885	881	882	85.2	13.1	1,066
14:57	880	886	881	882	84.4	12.9	1,035
14:58	878	884	879	880	84.4	13.0	1,024
14:59	879	884	879	880	84.3	13.1	1,005
15:00	880	884	880	881	86.9	13.0	1,006
15:01	881	885	880	882	85.1	13.0	1,007
15:02	881	885	880	882	85.3	12.9	992
15:03	880	885	880	882	87.4	13.0	991
15:04	880	885	879	881	87.1	12.8	1,000
15:05	879	884	879	881	84.3	12.7	987
15:06	880	884	880	881	85.4	13.0	997
15:07	881	885	881	882	86.7	13.0	992
15:08	880	886	881	882	85.1	13.0	991
15:09	879	885	879	881	83.5	13.0	995
15:10	878	884	878	880	86.1	13.0	987
15:11	879	884	879	881	89.2	13.1	994
15:12	879	884	879	881	85.4	13.1	1,003
15:13	880	884	879	881	86.0	13.2	999
15:14	880	885	880	882	84.9	13.2	987
15:15	882	886	880	883	84.4	12.8	978
15:16	882	886	881	883	81.7	12.9	984
15:17	880	886	880	882	85.0	13.1	990
15:18	880	885	879	881	83.5	13.0	984
15:19	880	885	880	881	86.1	12.8	986
15:20	879	884	879	881	83.7	13.1	992
15:21	879	884	880	881	85.1	12.8	984
15:22	878	883	879	880	85.1	12.9	984
15:23	877	883	878	879	87.5	12.9	988
15:24	877	883	878	879	84.9	13.2	989
15:25	878	883	879	880	86.5	12.8	991
15:26	880	884	880	881	88.3	12.9	996
15:27	880	885	880	882	85.5	13.0	994
15:28	882	886	882	883	84.5	13.0	999
15:29	883	887	882	884	83.7	13.0	1,001
15:30	882	887	881	883	85.0	13.1	1,015
15:31	882	887	881	884	85.0	13.2	1,007
15:32	882	886	880	883	85.1	13.0	1,010
15:33	881	886	880	883	85.0	12.9	1,014
15:34	880	886	880	882	85.1	12.9	1,015
15:35	879	885	880	881	86.1	12.9	1,019
15:36	877	883	878	879	88.4	12.9	1,003
15:37	876	882	877	878	87.8	13.0	1,009
15:38	878	882	878	880	85.9	13.1	1,018
15:39	880	884	879	881	87.3	13.3	1,021
15:40	880	884	880	881	82.6	13.1	1,012
15:41	881	885	880	882	84.7	12.9	1,003
15:42	882	886	880	883	86.0	12.9	995
15:43	881	886	880	882	84.9	12.9	994
15:44	881	886	880	883	85.8	13.0	990
15:45	881	886	880	882	85.5	13.3	984
15:46	881	886	881	882	83.9	13.1	996
15:47	881	886	881	882	84.3	13.0	996
15:48	880	886	880	882	83.5	12.9	992
15:49	879	885	879	881	83.7	12.9	999
15:50	878	884	879	881	81.7	13.0	998
15:51	879	884	879	881	86.5	13.1	995
15:52	878	884	879	880	86.4	13.0	996
15:53	878	884	879	880	86.5	13.1	1,005
15:54	878	883	879	880	86.8	12.9	1,007
15:55	878	884	879	880	87.1	13.0	1,007

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
15:56	878	884	878	880	85.6	12.9	1,014
15:57	878	883	878	880	87.9	13.1	1,005
15:58	879	883	878	880	87.5	13.0	1,017
15:59	881	884	880	882	87.3	13.1	1,011
16:00	882	886	881	883	85.3	13.0	1,008
16:01	882	886	881	883	86.4	13.1	991
16:02	881	886	880	882	87.5	13.1	992
16:03	881	885	880	882	86.1	13.2	1,005
16:04	881	885	880	882	87.1	13.3	1,013
16:05	881	885	881	882	85.6	13.1	1,010
16:06	881	886	881	883	87.2	13.0	1,009
16:07	879	885	879	881	86.8	13.0	1,003
16:08	879	884	880	881	84.3	12.9	1,007
16:09	877	884	879	880	83.5	13.0	1,014
16:10	877	883	879	880	84.7	12.9	1,016
16:11	878	883	878	879	85.9	12.9	1,002
16:12	879	883	879	880	84.0	13.0	1,000
16:13	880	884	880	881	84.4	13.1	994
16:14	881	885	881	882	88.9	12.9	997
16:15	881	886	881	883	88.3	12.7	1,000
16:16	880	886	880	882	84.9	13.0	993
16:17	880	885	880	882	87.3	13.1	987
16:18	880	885	880	882	86.9	13.1	996
16:19	880	885	880	881	85.2	13.1	991
16:20	879	885	879	881	86.0	13.1	984
16:21	879	884	879	881	84.0	13.1	986
16:22	880	884	879	881	86.1	12.9	993
16:23	880	885	879	881	87.6	13.0	991
16:24	880	884	879	881	86.0	12.9	994
16:25	880	884	879	881	85.4	12.9	996
16:26	880	884	879	881	85.9	13.0	998
16:27	880	885	880	881	87.3	12.9	995
16:28	880	885	880	882	87.5	13.1	1,004
16:29	879	885	880	881	87.4	13.1	1,009
16:30	879	884	879	881	84.9	13.4	995
16:31	880	885	880	882	86.0	13.0	997
16:32	880	885	880	882	87.9	12.8	1,006
16:33	881	885	881	882	86.2	12.9	1,004
16:34	881	886	880	882	85.6	12.9	1,006
16:35	881	886	881	882	86.3	13.0	1,022
16:36	881	886	881	883	88.4	13.1	1,000
16:37	881	886	880	882	85.1	13.3	1,002
16:38	880	885	879	881	84.2	12.8	999
16:39	879	884	878	880	84.5	12.7	1,001
16:40	880	884	879	881	83.4	12.9	1,004
16:41	881	885	879	882	84.7	13.0	1,003
16:42	880	885	879	881	85.0	12.8	1,013
16:43	878	884	879	881	84.9	12.8	1,000
16:44	878	883	879	880	82.6	12.7	1,004
16:45	877	883	878	879	85.6	13.0	1,011
16:46	877	882	877	879	87.2	12.9	994
16:47	878	882	878	880	86.6	12.9	991
16:48	879	883	879	880	86.9	13.1	1,001
16:49	881	884	880	881	87.8	13.0	997
16:50	882	885	881	883	85.3	12.9	1,006
16:51	882	886	881	883	84.2	13.0	1,009
16:52	883	886	881	883	86.0	13.2	1,005
16:53	883	887	881	883	86.9	12.9	1,006
16:54	881	886	880	882	86.2	13.2	1,003
16:55	879	885	879	881	83.5	13.1	1,000
16:56	879	884	879	881	84.4	13.1	1,000
16:57	879	884	880	881	85.4	13.0	1,086
16:58	878	884	879	881	87.2	12.8	1,061

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
16:59	877	883	879	880	83.7	12.8	1,058
17:00	878	883	878	880	84.6	13.0	1,042
17:01	878	883	878	879	83.5	12.9	1,039
17:02	879	883	878	880	86.0	13.0	1,021
17:03	880	884	879	881	86.4	12.9	1,016
17:04	880	884	879	881	83.7	13.1	1,027
17:05	881	885	880	882	84.8	13.0	1,032
17:06	882	886	881	883	86.8	13.0	1,024
17:07	882	886	880	883	87.8	13.1	1,001
17:08	882	886	880	882	85.1	13.0	1,004
17:09	882	886	880	883	86.3	13.0	1,000
17:10	881	886	881	883	84.2	13.0	993
17:11	880	885	880	882	85.1	12.9	994
17:12	879	885	879	881	87.3	13.1	989
17:13	878	884	879	880	86.8	13.2	987
17:14	878	884	879	880	84.7	13.1	989
17:15	878	883	878	880	85.2	12.8	999
17:16	878	883	877	879	83.7	12.8	1,001
17:17	881	884	879	881	87.1	12.9	1,001
17:18	881	885	880	882	85.4	12.9	1,003
17:19	881	885	880	882	83.4	13.0	1,001
17:20	881	885	880	882	88.0	12.8	996
17:21	880	885	880	882	85.3	13.0	990
17:22	880	885	879	881	85.5	13.0	985
17:23	881	885	881	882	86.6	13.1	985
17:24	882	886	881	883	85.7	13.1	982
17:25	882	887	881	883	85.4	13.0	991
17:26	881	886	880	883	84.3	13.0	987
17:27	879	885	879	881	85.9	13.4	989
17:28	878	884	879	880	87.5	12.8	991
17:29	877	884	878	880	85.0	12.9	987
17:30	877	883	878	879	86.5	12.8	987
17:31	878	883	879	880	87.3	13.0	999
17:32	881	884	880	882	88.8	13.3	994
17:33	882	886	881	883	85.4	13.0	1,005
17:34	881	886	881	883	84.4	12.9	1,000
17:35	881	886	880	883	87.9	13.2	993
17:36	881	886	880	882	86.6	12.8	1,001
17:37	880	885	879	882	87.0	13.3	1,017
17:38	879	884	878	880	83.9	13.0	1,021
17:39	877	883	878	879	85.0	13.2	1,010
17:40	877	882	877	879	87.1	13.0	1,006
17:41	877	882	877	879	88.3	13.1	995
17:42	879	883	878	880	85.8	12.9	990
17:43	882	885	880	883	85.7	13.0	994
17:44	882	886	881	883	86.6	13.1	985
17:45	882	886	881	883	84.4	13.0	996
17:46	882	886	881	883	87.5	13.1	1,014
17:47	881	886	880	882	86.3	13.1	1,014
17:48	880	885	880	881	85.8	13.1	1,010
17:49	878	884	878	880	86.9	13.1	994
17:50	879	883	879	880	85.9	12.9	996
17:51	877	883	878	880	82.5	13.0	996
17:52	877	883	878	879	84.9	13.2	1,001
17:53	878	883	879	880	84.9	13.0	996
17:54	880	884	880	882	87.1	13.1	1,000
17:55	880	885	880	882	83.8	12.8	1,008
17:56	881	885	880	882	84.7	12.9	1,005
17:57	882	886	881	883	86.9	12.8	1,006
17:58	882	886	881	883	86.3	13.0	996
17:59	882	886	881	883	83.4	12.8	989
18:00	881	886	881	883	86.7	12.9	1,001
18:01	881	886	880	882	85.6	13.3	1,002

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/15/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
18:02	881	886	880	882	87.3	13.2	1,004
18:03	880	885	879	882	85.5	12.8	1,004
18:04	879	884	879	881	85.0	12.8	998
18:05	877	883	878	880	83.8	13.1	1,009
18:06	877	883	878	879	84.7	13.0	1,035
18:07	877	882	877	878	86.7	13.5	1,005
Average	880	885	880	881	85.7	13.0	1,002
Minimum	876	882	877	878	81.1	12.7	978
Maximum	883	887	882	884	89.3	13.5	1,086

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	2
Date:	05/15/2024
Start Time:	14:02
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	18:07

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:02	1,282	19,433	129	4.48	3.05	1.90
14:03	1,285	19,862	129	4.17	3.05	1.89
14:04	1,288	19,367	129	4.03	3.06	1.87
14:05	1,288	19,371	129	4.49	3.06	1.90
14:06	1,291	19,486	129	3.72	3.06	1.91
14:07	1,294	19,150	129	3.46	3.07	1.88
14:08	1,292	19,507	129	4.25	3.07	1.85
14:09	1,291	19,542	129	4.12	3.07	1.86
14:10	1,289	19,458	129	3.55	3.06	1.88
14:11	1,287	19,175	129	4.15	3.05	1.88
14:12	1,284	19,412	129	3.84	3.04	1.86
14:13	1,286	18,992	129	3.15	3.04	1.89
14:14	1,280	19,636	129	3.43	3.04	1.90
14:15	1,284	19,847	129	3.97	3.04	1.90
14:16	1,283	19,728	129	3.73	3.05	1.84
14:17	1,285	20,029	129	4.26	3.05	1.89
14:18	1,284	19,327	129	4.91	3.05	1.87
14:19	1,287	19,767	129	3.81	3.06	1.93
14:20	1,288	19,239	129	3.91	3.06	1.89
14:21	1,289	19,584	129	2.50	3.08	1.89
14:22	1,292	19,380	129	3.34	3.08	1.95
14:23	1,291	19,393	129	3.90	3.07	1.95
14:24	1,295	19,347	129	4.75	3.06	1.92
14:25	1,291	19,674	129	4.50	3.04	1.93
14:26	1,289	19,695	129	4.50	3.04	1.92
14:27	1,291	19,460	129	4.16	3.04	1.96
14:28	1,290	19,803	129	3.63	3.05	1.90
14:29	1,295	19,748	129	4.86	3.05	1.91
14:30	1,287	19,754	130	3.55	3.06	1.89
14:31	1,293	19,168	129	3.61	3.06	1.91
14:32	1,290	19,445	129	4.26	3.06	1.87
14:33	1,290	19,186	129	3.82	3.06	1.90
14:34	1,284	19,394	129	4.32	3.05	1.90
14:35	1,283	19,261	129	3.95	3.04	1.89
14:36	1,280	19,530	129	4.53	3.02	1.91
14:37	1,283	19,044	129	3.70	3.00	1.87
14:38	1,279	19,236	129	3.74	2.99	1.95
14:39	1,279	19,533	129	4.81	3.00	1.92
14:40	1,284	19,220	129	5.06	3.00	1.90
14:41	1,286	19,706	129	4.03	3.01	1.82
14:42	1,288	19,132	129	3.96	3.02	1.85
14:43	1,285	19,504	129	5.38	3.01	1.87
14:44	1,285	19,413	129	3.83	3.01	1.86
14:45	1,287	19,356	129	3.34	3.01	1.87
14:46	1,285	19,233	129	3.28	3.01	1.94
14:47	1,286	20,047	129	3.84	2.99	1.88
14:48	1,276	19,702	129	4.29	2.99	1.84
14:49	1,279	19,695	129	5.02	2.99	1.88
14:50	1,279	19,739	129	5.42	2.99	1.91
14:51	1,279	19,252	129	4.91	3.00	1.90
14:52	1,283	19,293	129	4.17	3.01	1.93

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:53	1,280	19,645	129	4.59	3.02	1.92
14:54	1,283	19,757	129	4.14	3.01	1.89
14:55	1,281	19,881	129	4.96	3.00	1.88
14:56	1,278	19,410	129	4.19	3.00	1.89
14:57	1,270	19,876	129	4.91	3.00	1.86
14:58	1,277	19,550	129	4.67	3.00	1.93
14:59	1,283	19,493	129	4.69	3.01	1.93
15:00	1,287	19,482	129	5.46	3.02	1.89
15:01	1,285	19,374	129	4.30	3.02	1.89
15:02	1,288	19,691	129	4.11	3.02	1.89
15:03	1,281	19,809	129	4.22	3.02	1.89
15:04	1,289	19,192	129	3.76	3.02	1.93
15:05	1,291	19,641	129	3.20	3.02	1.88
15:06	1,289	19,277	129	4.33	3.01	1.82
15:07	1,287	19,476	129	3.55	3.01	1.88
15:08	1,269	19,168	129	3.57	3.01	1.87
15:09	1,276	19,416	129	5.26	3.01	1.92
15:10	1,280	19,139	129	4.95	3.01	1.96
15:11	1,282	19,311	129	4.84	3.02	1.89
15:12	1,290	19,539	129	4.84	3.04	1.90
15:13	1,284	19,561	129	3.68	3.06	1.91
15:14	1,289	19,354	129	3.98	3.06	1.91
15:15	1,290	19,356	129	3.77	3.05	1.89
15:16	1,289	19,816	129	3.91	3.05	1.86
15:17	1,286	19,271	128	3.85	3.05	1.90
15:18	1,288	19,556	129	3.82	3.05	1.88
15:19	1,287	19,796	129	3.50	3.05	1.91
15:20	1,284	19,611	129	3.50	3.04	1.88
15:21	1,280	19,957	129	4.97	3.03	1.85
15:22	1,283	19,451	129	5.88	3.02	1.85
15:23	1,281	19,202	129	5.11	3.04	1.89
15:24	1,284	19,249	129	5.26	3.05	1.90
15:25	1,291	19,574	129	3.35	3.07	1.95
15:26	1,296	19,108	129	3.05	3.07	1.88
15:27	1,290	19,694	129	2.73	3.07	1.91
15:28	1,290	19,495	129	3.01	3.06	1.85
15:29	1,292	19,482	129	3.70	3.05	1.86
15:30	1,287	19,353	129	3.78	3.03	1.89
15:31	1,284	19,791	129	3.58	3.02	1.93
15:32	1,282	19,794	129	4.05	3.03	1.92
15:33	1,281	19,621	129	3.79	3.02	1.93
15:34	1,265	19,288	129	3.88	3.02	1.93
15:35	1,261	18,958	128	4.67	3.02	1.89
15:36	1,263	19,041	128	4.80	3.02	1.93
15:37	1,274	19,321	128	5.35	3.04	1.97
15:38	1,276	19,402	128	4.14	3.06	1.90
15:39	1,283	19,537	128	4.28	3.07	1.91
15:40	1,286	19,450	128	4.20	3.08	1.94
15:41	1,286	19,517	129	3.61	3.07	1.91
15:42	1,285	19,482	129	4.27	3.07	1.89
15:43	1,283	19,387	129	3.97	3.07	1.89
15:44	1,283	19,353	129	3.70	3.07	1.90
15:45	1,285	19,611	129	4.07	3.06	1.90
15:46	1,283	19,264	129	3.99	3.06	1.93
15:47	1,277	19,068	129	3.79	3.06	1.91
15:48	1,271	19,236	129	5.07	3.07	1.90
15:49	1,270	19,517	129	5.67	3.06	1.90
15:50	1,272	19,707	129	4.75	3.06	1.89
15:51	1,272	19,893	129	5.97	3.06	1.90
15:52	1,274	19,575	129	4.98	3.06	1.87
15:53	1,275	19,389	129	4.41	3.07	1.87
15:54	1,278	19,662	129	4.72	3.08	1.88
15:55	1,270	19,913	129	3.87	3.08	1.87

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
15:56	1,275	20,088	129	4.96	3.08	1.92
15:57	1,278	19,429	129	4.19	3.08	1.94
15:58	1,283	19,638	129	4.91	3.08	1.93
15:59	1,289	19,650	129	4.39	3.08	1.90
16:00	1,288	19,812	129	3.53	3.07	1.87
16:01	1,285	19,369	129	3.39	3.07	1.94
16:02	1,286	19,277	129	4.56	3.07	1.93
16:03	1,282	19,303	129	3.37	3.06	1.88
16:04	1,283	19,236	129	3.58	3.06	1.89
16:05	1,276	19,795	129	3.43	3.05	1.89
16:06	1,271	19,539	129	3.83	3.05	1.88
16:07	1,273	19,569	129	4.10	3.05	1.88
16:08	1,266	19,427	129	4.08	3.05	1.87
16:09	1,262	19,491	129	4.31	3.06	1.88
16:10	1,266	19,300	129	4.65	3.06	1.86
16:11	1,276	19,740	129	4.23	3.06	1.89
16:12	1,277	20,248	129	4.49	3.06	1.88
16:13	1,283	19,328	129	3.57	3.06	1.87
16:14	1,286	19,062	129	3.84	3.06	1.89
16:15	1,286	20,009	129	3.80	3.06	1.88
16:16	1,285	19,868	129	3.82	3.07	1.87
16:17	1,284	19,563	129	3.57	3.06	1.90
16:18	1,280	19,735	129	4.37	3.06	1.92
16:19	1,282	19,570	129	3.36	3.07	1.88
16:20	1,285	19,332	129	4.40	3.07	1.87
16:21	1,285	19,625	129	4.24	3.07	1.89
16:22	1,285	19,762	129	3.71	3.09	1.87
16:23	1,284	19,032	129	4.52	3.08	1.87
16:24	1,286	19,532	129	4.00	3.06	1.88
16:25	1,282	19,116	129	3.52	3.05	1.90
16:26	1,284	18,905	129	3.90	3.04	1.94
16:27	1,287	19,681	129	4.43	3.05	1.86
16:28	1,287	19,431	129	4.61	3.05	1.86
16:29	1,282	19,432	129	3.47	3.07	1.87
16:30	1,289	19,842	129	4.26	3.08	1.85
16:31	1,284	19,164	129	4.25	3.08	1.88
16:32	1,287	19,325	129	3.07	3.08	1.91
16:33	1,287	19,475	129	3.70	3.09	1.84
16:34	1,285	19,823	129	3.72	3.08	1.89
16:35	1,280	19,611	129	3.90	3.08	1.86
16:36	1,282	19,667	129	4.53	3.08	1.88
16:37	1,282	19,924	129	4.63	3.07	1.95
16:38	1,279	19,829	129	4.03	3.05	1.96
16:39	1,283	19,559	129	4.24	3.04	1.87
16:40	1,282	19,601	129	4.70	3.05	1.86
16:41	1,281	19,823	129	5.22	3.05	1.90
16:42	1,279	19,239	129	4.67	3.06	1.90
16:43	1,272	19,325	129	4.18	3.07	1.86
16:44	1,273	19,279	129	4.99	3.08	1.91
16:45	1,269	20,063	129	5.42	3.08	1.88
16:46	1,279	19,525	129	4.70	3.10	1.94
16:47	1,289	19,471	129	4.33	3.11	1.91
16:48	1,292	19,834	129	4.26	3.13	1.91
16:49	1,295	19,925	129	3.47	3.14	1.90
16:50	1,295	19,474	129	4.05	3.13	1.90
16:51	1,293	19,325	129	4.59	3.12	1.84
16:52	1,289	19,310	129	3.57	3.10	1.89
16:53	1,286	19,385	129	3.94	3.08	1.91
16:54	1,283	19,060	129	3.89	3.07	1.91
16:55	1,285	19,395	129	3.20	3.06	1.92
16:56	1,272	19,777	129	3.97	3.05	1.90
16:57	1,265	19,474	128	3.98	3.04	1.90
16:58	1,258	19,479	128	4.00	3.03	1.89



**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
16:59	1,261	19,522	129	6.51	3.03	1.95
17:00	1,276	19,210	129	5.77	3.03	1.88
17:01	1,271	19,475	129	4.76	3.05	1.91
17:02	1,288	19,997	129	3.87	3.07	1.95
17:03	1,285	19,717	128	3.42	3.08	1.92
17:04	1,288	19,375	128	3.42	3.08	1.91
17:05	1,292	19,279	128	3.08	3.07	1.88
17:06	1,287	19,318	128	3.37	3.07	1.89
17:07	1,287	19,493	128	3.37	3.06	1.91
17:08	1,287	19,182	128	3.67	3.05	1.91
17:09	1,284	19,308	128	3.88	3.04	1.91
17:10	1,273	19,572	128	3.76	3.04	1.91
17:11	1,276	19,200	128	3.99	3.03	1.96
17:12	1,276	19,410	128	4.57	3.02	1.95
17:13	1,280	19,502	128	4.03	3.02	1.90
17:14	1,276	19,630	128	4.32	3.03	1.92
17:15	1,275	19,862	128	4.53	3.03	1.91
17:16	1,281	19,595	128	4.88	3.03	1.91
17:17	1,284	19,846	128	4.35	3.05	1.86
17:18	1,285	19,617	128	3.37	3.06	1.91
17:19	1,286	19,907	129	3.42	3.06	1.86
17:20	1,285	19,579	129	2.96	3.05	1.90
17:21	1,287	19,565	129	3.90	3.04	1.91
17:22	1,290	19,788	129	3.90	3.03	1.90
17:23	1,286	19,613	129	3.83	3.04	1.91
17:24	1,285	19,431	129	4.57	3.04	1.90
17:25	1,281	19,875	129	3.56	3.04	1.90
17:26	1,275	19,182	129	4.05	3.04	1.88
17:27	1,270	19,753	129	5.31	3.04	1.88
17:28	1,273	19,898	129	5.02	3.05	1.93
17:29	1,270	19,279	129	4.28	3.05	1.93
17:30	1,277	19,419	129	4.57	3.06	1.93
17:31	1,286	19,491	129	4.72	3.07	1.94
17:32	1,286	19,560	129	4.54	3.08	1.89
17:33	1,281	19,542	129	4.88	3.08	1.94
17:34	1,281	19,391	129	4.14	3.09	1.86
17:35	1,275	19,131	128	3.78	3.11	1.94
17:36	1,279	19,403	128	4.32	3.11	1.90
17:37	1,270	19,486	128	4.20	3.11	1.90
17:38	1,267	18,972	128	3.71	3.11	1.91
17:39	1,266	19,144	128	5.67	3.10	1.91
17:40	1,262	19,439	128	5.07	3.10	1.95
17:41	1,276	19,395	128	5.08	3.10	1.93
17:42	1,287	19,401	128	4.96	3.11	1.95
17:43	1,289	19,082	128	4.32	3.11	1.91
17:44	1,288	19,744	128	5.34	3.11	1.86
17:45	1,283	19,210	128	3.69	3.11	1.88
17:46	1,280	19,270	128	3.46	3.11	1.86
17:47	1,272	19,529	128	3.26	3.09	1.88
17:48	1,270	19,595	128	4.12	3.07	1.88
17:49	1,268	19,527	129	4.46	3.05	1.93
17:50	1,269	19,301	129	4.36	3.05	1.92
17:51	1,269	19,591	128	5.16	3.06	1.90
17:52	1,270	19,735	129	4.86	3.08	1.88
17:53	1,282	19,518	129	4.41	3.09	1.93
17:54	1,281	19,524	129	4.61	3.10	1.88
17:55	1,281	19,488	129	3.66	3.11	1.88
17:56	1,279	19,837	128	4.69	3.11	1.86
17:57	1,282	19,766	129	3.25	3.11	1.91
17:58	1,282	19,590	129	3.41	3.11	1.87
17:59	1,278	19,230	129	3.68	3.10	1.88
18:00	1,277	19,170	129	4.57	3.08	1.87
18:01	1,278	19,793	129	4.40	3.06	1.89

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 2**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/15/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
18:02	1,274	19,158	129	3.40	3.05	1.92
18:03	1,267	19,717	129	3.76	3.04	1.96
18:04	1,264	19,544	129	4.37	3.04	1.95
18:05	1,266	19,523	129	4.63	3.05	1.93
18:06	1,265	19,042	129	4.97	3.06	1.93
18:07	1,273	19,595	129	4.87	3.09	1.90
Average	1,281	19,499	129	4.18	3.06	1.90
Minimum	1,258	18,905	128	2.50	2.99	1.82
Maximum	1,296	20,248	130	6.51	3.14	1.97

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	3
Date:	05/16/2024
Start Time:	07:06
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	11:10

Parameter	Units	Acrylic Acid Water	AA-E2 Residue
Heating value	Btu/lb	628	11,800

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
07:06	877	883	878	879	87.4	13.0	978
07:07	877	883	878	879	87.7	13.1	939
07:08	878	883	879	880	86.3	13.2	922
07:09	879	884	880	881	87.1	12.9	921
07:10	880	885	880	882	85.1	13.0	932
07:11	881	886	880	882	87.3	12.9	922
07:12	881	886	881	883	84.4	12.8	920
07:13	882	887	882	883	87.4	12.8	920
07:14	881	886	881	883	87.2	13.0	927
07:15	882	887	882	884	85.3	13.0	924
07:16	881	887	881	883	85.2	13.0	924
07:17	880	886	881	882	87.1	13.1	922
07:18	880	886	881	882	86.1	12.9	926
07:19	881	885	880	882	86.9	13.0	946
07:20	881	886	882	883	84.2	13.2	963
07:21	878	885	880	881	86.8	12.9	954
07:22	877	883	879	880	85.2	13.2	966
07:23	877	883	879	880	82.9	12.8	970
07:24	877	883	879	880	86.3	13.0	984
07:25	876	882	878	879	86.8	12.8	986
07:26	876	882	877	878	86.8	13.2	982
07:27	877	882	878	879	86.6	13.1	980
07:28	879	883	879	881	86.6	12.9	992
07:29	880	885	880	882	86.6	13.0	992
07:30	881	885	881	882	87.5	12.9	990
07:31	880	885	880	882	85.8	12.8	990
07:32	881	885	880	882	87.4	13.0	991
07:33	882	886	881	883	84.4	13.0	994
07:34	882	886	881	883	86.2	13.2	1,002
07:35	881	886	880	882	85.8	13.0	1,001
07:36	879	885	880	881	87.0	13.0	997
07:37	879	885	880	881	83.8	12.9	992
07:38	878	884	879	881	87.1	12.9	992
07:39	878	884	879	880	86.8	12.8	990
07:40	879	884	880	881	85.8	13.0	992
07:41	878	884	880	881	84.5	13.2	998
07:42	879	884	880	881	84.0	13.2	993
07:43	879	884	880	881	88.3	12.8	1,005
07:44	879	884	879	881	85.9	13.0	1,002
07:45	879	884	880	881	85.1	13.3	1,003
07:46	879	884	880	881	85.3	12.9	1,008
07:47	879	885	880	881	83.8	13.0	1,008
07:48	879	884	879	881	84.9	13.0	1,006
07:49	879	884	879	881	84.7	13.0	1,005
07:50	879	884	879	881	84.0	13.2	1,007
07:51	881	885	880	882	84.7	12.9	1,006
07:52	881	885	881	882	87.0	13.1	1,002
07:53	882	886	881	883	85.7	12.7	1,009
07:54	881	886	880	883	87.4	13.0	1,001
07:55	880	886	881	882	86.7	12.8	1,016
07:56	879	885	880	882	87.0	12.8	1,011

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
07:57	879	885	880	881	84.5	13.2	1,004
07:58	878	884	879	880	82.8	13.0	1,002
07:59	878	884	879	880	86.4	13.0	1,000
08:00	878	884	880	880	84.4	12.9	1,014
08:01	878	884	879	880	85.7	13.3	1,003
08:02	878	883	879	880	87.1	13.0	997
08:03	878	883	879	880	86.0	13.1	998
08:04	879	884	880	881	84.4	13.0	1,007
08:05	881	885	880	882	84.6	13.1	1,005
08:06	882	886	881	883	86.5	13.0	1,001
08:07	881	886	881	883	83.8	12.8	1,003
08:08	880	886	880	882	85.7	12.8	1,002
08:09	879	885	880	881	86.0	13.0	1,002
08:10	879	885	880	881	86.9	12.9	1,009
08:11	880	885	881	882	83.9	12.9	1,007
08:12	879	885	880	881	83.0	12.9	1,014
08:13	879	885	880	881	85.9	12.9	1,010
08:14	879	884	880	881	88.0	13.0	1,011
08:15	879	884	880	881	84.9	13.0	1,001
08:16	879	885	880	881	85.5	12.9	1,031
08:17	880	885	880	882	83.4	12.7	1,016
08:18	879	885	880	881	83.9	12.9	1,003
08:19	879	885	880	881	84.8	12.9	994
08:20	879	885	880	881	84.7	12.8	1,006
08:21	879	885	880	881	84.9	13.0	1,003
08:22	879	884	880	881	85.7	13.0	1,004
08:23	878	884	879	880	84.3	12.8	1,019
08:24	878	883	879	880	83.4	12.7	1,005
08:25	879	884	879	881	84.7	12.9	1,005
08:26	879	884	879	881	88.0	13.1	1,005
08:27	878	883	879	880	84.5	12.8	999
08:28	879	884	879	881	83.8	12.8	1,007
08:29	881	885	880	882	86.1	12.9	1,007
08:30	882	886	882	883	86.7	12.9	1,004
08:31	882	887	882	884	87.0	12.8	1,007
08:32	881	887	882	883	83.9	12.7	1,012
08:33	879	886	881	882	82.5	12.9	1,002
08:34	878	885	880	881	84.2	13.0	1,004
08:35	878	884	879	880	86.5	12.9	1,011
08:36	877	883	879	880	85.6	13.0	1,001
08:37	876	883	878	879	83.7	13.0	994
08:38	876	882	878	879	83.9	13.3	995
08:39	877	883	878	879	84.0	13.4	1,001
08:40	878	883	879	880	84.3	12.8	996
08:41	879	884	880	881	87.1	13.0	990
08:42	881	885	880	882	84.2	12.9	989
08:43	881	885	881	882	85.5	13.2	1,004
08:44	881	886	881	882	86.5	13.0	1,000
08:45	880	885	880	882	86.3	12.9	994
08:46	880	885	880	881	88.9	12.8	996
08:47	880	885	879	881	86.5	13.1	1,002
08:48	880	885	880	882	86.2	12.9	1,002
08:49	880	885	881	882	85.0	12.9	997
08:50	880	885	880	882	84.4	13.1	1,008
08:51	878	884	879	880	84.6	12.9	1,007
08:52	878	884	880	881	85.3	12.9	1,021
08:53	878	884	880	881	82.5	12.9	1,010
08:54	878	883	879	880	85.0	13.1	1,025
08:55	879	884	879	881	85.2	13.4	1,021
08:56	880	884	880	881	84.4	13.2	1,019
08:57	880	884	880	881	84.6	13.0	1,002
08:58	880	884	880	881	85.7	12.8	997
08:59	879	884	879	881	85.4	12.9	1,018

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
09:00	880	885	880	882	85.2	12.8	1,012
09:01	881	885	881	882	86.9	12.8	1,031
09:02	881	886	881	883	83.4	12.9	1,023
09:03	880	886	880	882	86.5	13.0	1,034
09:04	879	884	879	881	84.0	13.0	1,019
09:05	879	884	879	881	86.9	12.9	1,064
09:06	879	884	880	881	86.7	13.0	1,081
09:07	879	884	879	881	85.8	12.9	1,047
09:08	879	884	879	881	84.6	13.1	994
09:09	881	885	880	882	84.1	13.2	1,004
09:10	881	886	881	883	87.0	13.0	999
09:11	880	886	881	882	84.3	13.3	994
09:12	882	886	881	883	85.9	13.2	998
09:13	882	886	881	883	85.5	13.3	993
09:14	881	886	881	883	86.4	13.3	1,002
09:15	881	886	880	882	88.5	13.0	1,001
09:16	881	886	880	882	84.3	12.8	1,008
09:17	881	886	881	883	82.0	13.0	1,011
09:18	879	885	880	882	82.6	12.9	997
09:19	877	884	879	880	84.8	13.0	998
09:20	876	883	879	879	85.4	13.0	999
09:21	875	882	877	878	86.8	13.0	997
09:22	875	881	876	877	84.5	13.2	1,003
09:23	878	882	879	880	85.5	13.0	1,009
09:24	879	884	880	881	87.5	13.1	1,003
09:25	880	884	880	881	84.3	13.0	1,000
09:26	879	884	880	881	85.7	13.5	1,008
09:27	879	884	880	881	86.1	13.2	1,017
09:28	880	885	881	882	85.5	12.8	1,014
09:29	881	885	881	882	86.7	13.0	1,004
09:30	880	885	880	882	84.7	13.0	996
09:31	880	885	880	881	84.0	13.0	993
09:32	880	884	879	881	86.0	13.1	1,000
09:33	879	884	880	881	86.6	13.0	995
09:34	878	884	879	880	85.0	13.0	1,008
09:35	879	884	879	881	85.0	13.4	1,010
09:36	880	885	880	882	85.8	13.1	1,010
09:37	881	885	881	882	85.0	13.1	1,006
09:38	880	886	881	882	84.1	13.0	1,004
09:39	879	885	879	881	87.9	13.1	1,013
09:40	880	885	880	882	84.3	12.9	1,023
09:41	880	885	880	882	85.1	13.0	1,015
09:42	880	885	880	882	86.5	13.0	1,000
09:43	879	885	880	881	86.9	13.0	1,009
09:44	880	885	880	882	83.6	13.0	1,007
09:45	881	886	881	883	87.1	13.0	1,014
09:46	882	886	881	883	87.7	12.8	1,019
09:47	882	886	881	883	84.8	13.0	1,016
09:48	881	886	880	882	86.2	13.1	998
09:49	880	886	881	882	84.8	13.1	1,001
09:50	879	885	880	882	84.6	13.0	1,003
09:51	879	885	880	881	84.0	13.0	1,002
09:52	879	884	879	880	84.3	13.2	1,005
09:53	878	883	879	880	85.8	13.0	1,010
09:54	878	883	878	880	87.2	13.1	1,013
09:55	879	883	878	880	85.1	12.9	1,008
09:56	878	883	879	880	84.5	13.1	1,009
09:57	880	884	880	882	85.5	13.0	1,011
09:58	881	886	881	883	84.0	12.8	1,012
09:59	880	886	880	882	84.5	13.1	1,014
10:00	880	885	880	882	85.5	12.8	1,016
10:01	879	885	879	881	85.1	12.7	996
10:02	879	884	879	881	83.3	12.8	1,007

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
10:03	879	884	879	881	84.6	13.2	999
10:04	879	884	879	881	84.8	13.0	1,014
10:05	880	884	880	881	87.9	13.0	1,007
10:06	879	884	879	881	87.0	12.8	1,010
10:07	879	884	879	881	85.3	12.9	1,015
10:08	881	885	880	882	85.1	12.9	995
10:09	880	885	879	881	85.9	13.0	992
10:10	880	885	880	881	85.8	12.9	999
10:11	880	885	881	882	82.9	13.3	1,011
10:12	880	886	881	882	85.9	13.2	1,011
10:13	882	886	881	883	84.7	12.9	1,018
10:14	881	886	881	883	85.3	13.3	1,011
10:15	879	885	879	881	83.9	13.0	1,009
10:16	880	885	879	881	86.1	13.1	1,009
10:17	880	885	880	882	85.5	12.9	1,002
10:18	880	885	880	881	87.0	13.2	1,004
10:19	880	885	879	881	87.8	12.9	1,003
10:20	880	885	879	881	84.3	13.1	1,004
10:21	878	884	879	880	85.4	12.9	1,010
10:22	877	883	878	879	84.4	12.9	1,010
10:23	877	882	877	879	84.6	13.2	1,010
10:24	878	883	878	880	83.0	13.0	1,014
10:25	880	884	879	881	84.8	12.8	1,014
10:26	881	884	880	882	85.2	12.7	1,013
10:27	882	886	881	883	86.1	12.9	1,004
10:28	883	887	882	884	83.2	13.1	998
10:29	883	887	881	884	83.6	12.8	1,004
10:30	882	886	880	883	83.9	13.0	1,009
10:31	879	885	879	881	83.7	12.9	1,012
10:32	878	884	878	880	85.7	13.0	999
10:33	876	882	877	879	85.4	12.9	989
10:34	877	882	877	879	85.3	13.0	1,019
10:35	879	884	879	881	83.4	12.9	1,069
10:36	879	884	879	880	83.5	12.9	1,012
10:37	880	885	880	882	85.8	13.0	981
10:38	880	885	880	881	84.3	12.9	998
10:39	880	885	880	882	85.8	13.0	983
10:40	880	885	880	881	84.7	13.0	984
10:41	881	885	881	882	86.3	13.0	984
10:42	881	886	881	882	86.1	13.2	987
10:43	881	885	881	882	85.6	13.1	978
10:44	881	885	880	882	84.9	12.9	963
10:45	881	885	880	882	84.5	12.9	965
10:46	881	885	880	882	84.2	13.0	962
10:47	881	885	880	882	84.6	12.9	973
10:48	880	885	880	882	86.0	13.1	965
10:49	881	885	880	882	87.0	13.0	971
10:50	880	885	880	882	85.7	13.0	962
10:51	879	884	879	881	85.8	13.0	962
10:52	878	883	878	880	83.3	12.9	964
10:53	878	883	878	880	84.6	13.1	968
10:54	879	883	879	880	84.9	13.0	976
10:55	880	884	879	881	83.4	13.1	969
10:56	880	884	879	881	85.2	13.0	971
10:57	881	885	880	882	85.0	13.1	966
10:58	881	886	880	882	84.9	13.4	967
10:59	881	886	880	882	82.8	12.9	964
11:00	880	884	878	881	83.4	13.0	958
11:01	880	884	879	881	84.1	13.0	963
11:02	881	885	880	882	82.7	13.0	964
11:03	880	885	880	882	85.8	13.1	974
11:04	880	885	879	881	86.1	12.9	965
11:05	879	884	878	881	85.3	12.8	971

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
11:06	878	883	878	880	86.7	13.0	970
11:07	878	883	878	880	86.4	12.8	966
11:08	878	883	878	880	84.1	13.2	972
11:09	879	884	879	881	86.3	12.9	975
11:10	881	884	880	882	86.9	13.0	967
Average	880	885	880	881	85.4	13.0	996
Minimum	875	881	876	877	82.0	12.7	920
Maximum	883	887	882	884	88.9	13.5	1,081

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	3
Date:	05/16/2024
Start Time:	07:06
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	11:10

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
07:06	1,252	19,488	130	4.53	2.58	1.86
07:07	1,261	19,506	130	4.59	2.61	1.85
07:08	1,269	19,382	130	4.87	2.64	1.85
07:09	1,269	19,282	130	4.76	2.67	1.85
07:10	1,273	19,135	130	4.72	2.69	1.84
07:11	1,275	19,392	130	3.64	2.71	1.82
07:12	1,276	19,474	130	4.32	2.73	1.81
07:13	1,275	19,306	130	4.30	2.75	1.81
07:14	1,275	19,398	130	3.58	2.76	1.81
07:15	1,269	19,641	130	4.16	2.77	1.84
07:16	1,261	18,949	130	4.21	2.78	1.83
07:17	1,264	18,894	129	5.29	2.79	1.83
07:18	1,264	19,479	130	4.82	2.81	1.84
07:19	1,260	19,263	130	5.87	2.83	1.82
07:20	1,252	19,216	130	5.15	2.85	1.83
07:21	1,248	18,975	130	4.27	2.88	1.83
07:22	1,247	19,311	130	4.80	2.90	1.83
07:23	1,249	19,688	129	5.73	2.92	1.85
07:24	1,245	19,908	129	6.30	2.95	1.81
07:25	1,244	18,740	130	5.44	2.98	1.84
07:26	1,255	18,791	130	5.50	3.01	1.86
07:27	1,258	19,370	130	3.96	3.04	1.88
07:28	1,259	19,382	130	4.21	3.07	1.85
07:29	1,259	19,020	130	4.32	3.08	1.81
07:30	1,259	19,048	129	3.81	3.10	1.80
07:31	1,262	19,074	129	3.82	3.11	1.79
07:32	1,262	19,589	129	3.46	3.12	1.80
07:33	1,260	19,229	129	3.03	3.13	1.80
07:34	1,259	19,842	129	3.41	3.13	1.81
07:35	1,253	19,357	129	3.87	3.13	1.83
07:36	1,251	19,760	129	4.28	3.14	1.82
07:37	1,250	19,806	129	4.86	3.15	1.82
07:38	1,249	19,356	129	4.76	3.17	1.80
07:39	1,256	19,331	129	3.83	3.17	1.84
07:40	1,255	19,106	129	3.92	3.17	1.82
07:41	1,255	19,415	129	3.89	3.17	1.79
07:42	1,255	19,393	129	4.05	3.17	1.86
07:43	1,254	19,506	129	4.55	3.16	1.83
07:44	1,253	19,233	129	4.74	3.14	1.82
07:45	1,252	19,174	130	4.53	3.14	1.82
07:46	1,252	19,166	129	4.20	3.14	1.85
07:47	1,253	18,714	130	4.42	3.14	1.78
07:48	1,251	19,252	129	3.70	3.14	1.83
07:49	1,251	19,385	129	4.15	3.14	1.84
07:50	1,255	18,828	129	4.19	3.14	1.81
07:51	1,258	19,149	129	3.97	3.14	1.83
07:52	1,261	19,089	129	3.73	3.14	1.81
07:53	1,259	19,264	129	3.10	3.14	1.81
07:54	1,257	19,159	129	2.78	3.14	1.80
07:55	1,250	19,240	129	3.52	3.14	1.81
07:56	1,249	19,230	129	4.19	3.14	1.78



**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
07:57	1,247	18,440	129	3.70	3.14	1.79
07:58	1,246	18,967	129	4.26	3.14	1.82
07:59	1,246	19,247	129	4.25	3.13	1.81
08:00	1,250	19,246	129	4.78	3.13	1.83
08:01	1,248	19,552	130	4.40	3.14	1.80
08:02	1,251	19,194	130	3.81	3.15	1.88
08:03	1,248	19,779	130	5.48	3.15	1.81
08:04	1,255	19,277	130	4.36	3.15	1.82
08:05	1,258	19,084	130	5.45	3.15	1.81
08:06	1,259	19,234	130	3.85	3.15	1.80
08:07	1,256	19,850	130	3.60	3.13	1.82
08:08	1,256	20,127	130	3.73	3.12	1.86
08:09	1,255	19,439	130	3.97	3.10	1.83
08:10	1,252	19,485	130	4.48	3.09	1.80
08:11	1,250	19,631	130	4.56	3.08	1.81
08:12	1,249	19,166	130	4.30	3.07	1.79
08:13	1,248	19,831	130	3.96	3.07	1.84
08:14	1,250	19,485	129	4.76	3.08	1.84
08:15	1,252	19,724	129	4.51	3.08	1.84
08:16	1,250	19,611	129	4.68	3.09	1.79
08:17	1,247	19,250	129	3.80	3.10	1.77
08:18	1,251	19,461	129	4.31	3.10	1.79
08:19	1,250	19,674	129	4.66	3.09	1.77
08:20	1,247	19,698	129	4.28	3.08	1.79
08:21	1,247	19,490	129	4.74	3.08	1.80
08:22	1,248	18,858	129	4.26	3.07	1.79
08:23	1,248	19,172	129	4.07	3.07	1.79
08:24	1,247	18,671	129	3.42	3.06	1.81
08:25	1,250	18,730	129	4.38	3.05	1.77
08:26	1,250	18,862	129	3.96	3.03	1.79
08:27	1,250	19,477	129	3.48	3.01	1.77
08:28	1,257	19,408	129	4.42	3.00	1.77
08:29	1,263	19,188	129	3.64	2.99	1.78
08:30	1,260	19,374	129	3.31	3.00	1.77
08:31	1,254	19,559	129	3.34	2.99	1.78
08:32	1,246	18,991	129	4.83	2.98	1.71
08:33	1,242	19,352	129	4.58	2.99	1.76
08:34	1,242	19,274	129	5.20	3.00	1.79
08:35	1,244	19,076	129	5.30	3.02	1.81
08:36	1,245	18,578	129	5.30	3.03	1.80
08:37	1,243	18,902	130	5.63	3.04	1.81
08:38	1,244	18,964	130	6.24	3.05	1.79
08:39	1,248	19,388	130	5.39	3.07	1.82
08:40	1,256	19,735	130	5.41	3.08	1.85
08:41	1,259	18,521	130	5.08	3.09	1.79
08:42	1,260	19,296	130	3.70	3.10	1.79
08:43	1,261	19,732	129	5.19	3.12	1.76
08:44	1,263	19,703	130	3.76	3.12	1.81
08:45	1,257	19,587	130	3.79	3.13	1.80
08:46	1,258	19,223	130	4.09	3.12	1.79
08:47	1,260	19,489	129	3.60	3.12	1.78
08:48	1,260	19,292	129	3.55	3.12	1.82
08:49	1,252	19,153	129	3.99	3.12	1.78
08:50	1,250	19,204	129	4.64	3.12	1.78
08:51	1,247	19,212	129	4.49	3.12	1.81
08:52	1,246	19,040	129	4.44	3.12	1.81
08:53	1,247	19,509	129	5.12	3.12	1.77
08:54	1,248	19,354	129	4.79	3.13	1.85
08:55	1,253	19,742	129	3.83	3.15	1.81
08:56	1,254	19,051	129	3.74	3.17	1.84
08:57	1,258	18,607	129	3.56	3.18	1.83
08:58	1,259	18,863	129	4.49	3.19	1.80
08:59	1,258	19,468	129	4.22	3.19	1.80

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
09:00	1,257	19,276	129	4.35	3.20	1.77
09:01	1,258	19,859	129	4.01	3.19	1.77
09:02	1,255	19,558	129	3.82	3.18	1.76
09:03	1,251	19,513	129	3.64	3.17	1.80
09:04	1,254	18,822	129	4.60	3.16	1.83
09:05	1,249	19,226	129	3.62	3.15	1.83
09:06	1,240	19,988	129	3.02	3.15	1.77
09:07	1,245	19,426	129	4.05	3.14	1.84
09:08	1,260	19,351	129	4.70	3.13	1.79
09:09	1,259	19,471	129	3.65	3.13	1.81
09:10	1,260	19,248	129	3.67	3.14	1.80
09:11	1,257	19,299	129	4.19	3.15	1.81
09:12	1,256	19,504	129	3.10	3.14	1.79
09:13	1,258	19,394	129	3.49	3.14	1.76
09:14	1,249	19,004	129	3.89	3.12	1.80
09:15	1,249	19,136	129	3.98	3.11	1.84
09:16	1,250	19,487	129	3.86	3.11	1.81
09:17	1,248	19,389	129	3.85	3.10	1.78
09:18	1,240	19,443	129	4.70	3.09	1.81
09:19	1,240	19,543	129	6.58	3.09	1.84
09:20	1,239	19,423	129	5.43	3.09	1.85
09:21	1,239	19,076	129	6.27	3.11	1.87
09:22	1,254	19,226	129	6.35	3.12	1.89
09:23	1,257	19,588	129	4.19	3.14	1.79
09:24	1,259	19,506	129	4.54	3.16	1.79
09:25	1,257	19,347	129	5.08	3.15	1.83
09:26	1,258	19,528	129	4.67	3.15	1.79
09:27	1,257	18,871	129	3.54	3.16	1.81
09:28	1,257	19,195	130	4.16	3.16	1.79
09:29	1,257	19,621	130	4.32	3.16	1.80
09:30	1,258	19,160	130	3.67	3.16	1.81
09:31	1,255	19,450	129	5.10	3.17	1.80
09:32	1,261	19,128	129	5.06	3.19	1.80
09:33	1,262	19,505	129	3.88	3.20	1.82
09:34	1,257	19,302	129	3.40	3.20	1.79
09:35	1,259	19,616	129	3.33	3.20	1.81
09:36	1,257	19,317	129	3.47	3.18	1.83
09:37	1,259	19,591	129	4.95	3.16	1.80
09:38	1,259	19,979	129	4.51	3.14	1.80
09:39	1,259	19,686	129	3.00	3.13	1.81
09:40	1,256	19,162	129	3.97	3.11	1.79
09:41	1,255	19,116	129	4.05	3.09	1.80
09:42	1,256	19,282	129	4.04	3.08	1.80
09:43	1,259	19,472	129	4.17	3.07	1.81
09:44	1,259	19,369	129	3.71	3.06	1.81
09:45	1,258	19,297	129	4.25	3.06	1.78
09:46	1,257	18,741	129	4.66	3.05	1.78
09:47	1,251	18,848	129	3.26	3.04	1.78
09:48	1,247	19,435	129	4.45	3.04	1.80
09:49	1,242	19,252	129	4.03	3.05	1.79
09:50	1,242	19,229	129	5.18	3.05	1.76
09:51	1,243	19,146	129	4.45	3.05	1.72
09:52	1,242	19,072	129	4.71	3.06	1.73
09:53	1,239	19,366	129	5.22	3.06	1.78
09:54	1,248	19,279	129	5.16	3.07	1.74
09:55	1,252	19,143	129	3.46	3.07	1.75
09:56	1,255	19,026	129	4.21	3.08	1.73
09:57	1,255	19,056	129	3.90	3.07	1.70
09:58	1,255	19,282	129	4.35	3.07	1.73
09:59	1,253	19,162	129	4.01	3.07	1.72
10:00	1,253	19,420	129	4.61	3.07	1.73
10:01	1,253	19,473	130	4.19	3.07	1.75
10:02	1,257	18,912	130	4.92	3.08	1.78

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
10:03	1,258	18,755	129	4.17	3.09	1.76
10:04	1,257	19,200	130	4.46	3.10	1.78
10:05	1,256	19,554	130	4.01	3.11	1.76
10:06	1,255	19,457	130	5.05	3.11	1.73
10:07	1,257	19,275	130	4.15	3.11	1.79
10:08	1,259	19,274	130	4.16	3.13	1.77
10:09	1,258	19,719	130	4.24	3.13	1.77
10:10	1,260	19,027	129	3.45	3.12	1.76
10:11	1,258	19,094	129	3.55	3.13	1.71
10:12	1,256	19,411	129	4.03	3.13	1.77
10:13	1,256	19,362	129	4.52	3.13	1.73
10:14	1,254	18,832	129	4.17	3.14	1.74
10:15	1,248	19,189	129	3.74	3.15	1.81
10:16	1,254	19,317	129	4.83	3.15	1.80
10:17	1,256	19,337	129	3.96	3.16	1.79
10:18	1,257	19,658	129	4.46	3.17	1.76
10:19	1,253	19,070	129	3.79	3.18	1.79
10:20	1,252	18,872	129	4.66	3.18	1.79
10:21	1,236	19,464	129	5.60	3.16	1.83
10:22	1,239	19,106	129	6.47	3.15	1.83
10:23	1,254	19,552	129	5.40	3.14	1.80
10:24	1,257	19,547	129	3.98	3.15	1.80
10:25	1,257	18,725	129	4.13	3.17	1.77
10:26	1,260	19,061	129	3.80	3.18	1.72
10:27	1,263	19,256	129	4.81	3.18	1.77
10:28	1,265	19,263	129	3.72	3.16	1.74
10:29	1,262	19,021	129	4.59	3.17	1.75
10:30	1,256	18,974	129	4.26	3.17	1.81
10:31	1,243	19,339	129	4.06	3.17	1.82
10:32	1,240	19,723	129	5.65	3.16	1.80
10:33	1,243	19,520	129	6.71	3.16	1.82
10:34	1,259	19,325	129	5.88	3.16	1.80
10:35	1,251	19,521	129	4.26	3.19	1.73
10:36	1,262	19,190	129	4.97	3.23	1.78
10:37	1,264	19,552	129	5.39	3.24	1.78
10:38	1,264	19,231	129	4.38	3.25	1.82
10:39	1,265	19,322	129	5.09	3.26	1.79
10:40	1,263	19,107	129	4.13	3.27	1.77
10:41	1,264	19,005	129	4.38	3.28	1.77
10:42	1,263	19,387	129	4.09	3.28	1.78
10:43	1,266	18,874	129	4.55	3.28	1.82
10:44	1,265	19,664	129	5.10	3.28	1.82
10:45	1,265	18,885	129	4.36	3.28	1.81
10:46	1,264	19,434	129	3.73	3.30	1.80
10:47	1,264	19,321	129	4.10	3.31	1.79
10:48	1,266	19,015	129	4.06	3.31	1.77
10:49	1,265	19,290	129	4.37	3.31	1.79
10:50	1,262	19,400	129	3.98	3.32	1.78
10:51	1,255	19,542	129	4.50	3.32	1.81
10:52	1,255	19,476	129	4.74	3.31	1.81
10:53	1,256	18,866	129	4.72	3.30	1.80
10:54	1,256	19,182	129	5.43	3.30	1.80
10:55	1,265	19,212	129	4.88	3.30	1.82
10:56	1,270	19,413	129	4.73	3.30	1.81
10:57	1,269	19,165	129	4.77	3.32	1.79
10:58	1,268	19,047	129	3.27	3.33	1.82
10:59	1,268	19,021	130	4.34	3.35	1.80
11:00	1,264	19,781	130	4.26	3.36	1.87
11:01	1,263	19,290	130	5.13	3.36	1.82
11:02	1,263	19,587	129	5.71	3.37	1.77
11:03	1,258	19,179	129	4.85	3.37	1.77
11:04	1,258	19,352	129	5.43	3.38	1.83
11:05	1,259	19,513	129	5.97	3.39	1.79

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 3**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:06	1,259	19,221	129	6.38	3.40	1.75
11:07	1,256	19,001	129	5.86	3.43	1.81
11:08	1,268	19,619	129	4.73	3.45	1.80
11:09	1,272	19,354	129	4.20	3.47	1.81
11:10	1,269	19,855	129	3.99	3.48	1.77
Average	1,255	19,298	129	4.40	3.12	1.80
Minimum	1,236	18,440	129	2.78	2.58	1.70
Maximum	1,276	20,127	130	6.71	3.48	1.89

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	4
Date:	05/16/2024
Start Time:	11:40
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	15:45

Parameter	Units	Acrylic Acid Water	AA-E2 Residue
Heating value	Btu/lb	342	11,700

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
11:40	878	882	877	879	86.5	13.3	999
11:41	880	883	878	880	85.2	13.0	994
11:42	881	884	880	882	85.5	13.0	1,003
11:43	882	885	881	883	83.9	13.3	1,001
11:44	883	886	882	884	83.7	13.1	1,009
11:45	883	887	881	884	82.6	13.0	1,001
11:46	882	886	880	883	85.0	13.3	1,004
11:47	880	885	880	882	85.6	12.7	1,003
11:48	879	885	879	881	84.7	13.0	1,001
11:49	877	883	877	879	86.1	13.3	1,005
11:50	878	883	878	879	84.6	13.0	1,011
11:51	879	883	879	880	86.7	13.1	1,015
11:52	879	884	879	880	82.4	12.7	1,022
11:53	879	884	878	880	86.6	13.0	1,011
11:54	881	884	879	881	85.3	13.1	1,005
11:55	881	885	879	882	87.5	13.2	995
11:56	881	885	879	882	85.3	13.1	1,009
11:57	881	886	880	882	85.3	13.0	996
11:58	881	885	879	881	84.0	12.7	997
11:59	881	885	879	882	86.6	12.9	1,000
12:00	882	885	880	882	87.5	13.1	1,000
12:01	881	885	880	882	86.6	13.0	1,004
12:02	878	884	878	880	84.2	12.8	991
12:03	877	883	877	879	83.7	12.8	1,001
12:04	877	882	877	879	84.0	13.1	1,003
12:05	877	882	877	879	86.3	13.1	1,000
12:06	878	882	877	879	84.5	12.8	1,008
12:07	880	883	879	881	83.4	13.0	1,006
12:08	881	884	880	882	85.5	12.9	1,013
12:09	882	885	880	882	86.1	13.0	1,029
12:10	881	886	880	882	86.1	12.8	1,025
12:11	881	885	880	882	85.8	13.0	1,030
12:12	881	886	880	882	86.3	13.1	1,026
12:13	881	885	880	882	86.9	13.1	1,009
12:14	881	885	879	882	86.1	13.0	1,011
12:15	880	884	878	881	85.0	13.4	1,006
12:16	880	884	879	881	84.1	13.1	1,008
12:17	880	884	879	881	83.5	12.9	1,007
12:18	880	885	879	881	85.5	13.1	1,017
12:19	879	884	878	881	87.3	13.0	1,006
12:20	878	883	877	879	83.9	12.8	1,014
12:21	878	882	878	879	85.3	12.9	1,006
12:22	879	884	879	881	84.5	13.0	1,021
12:23	878	883	878	880	83.4	12.9	1,022
12:24	878	883	878	880	83.3	12.9	1,006
12:25	880	884	879	881	87.2	13.0	999
12:26	881	885	879	882	85.1	12.9	1,006
12:27	881	885	879	882	81.8	13.0	1,007
12:28	882	885	880	882	83.3	13.0	1,011
12:29	882	886	880	883	86.2	13.1	1,016
12:30	882	886	880	883	88.6	13.1	1,015

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
12:31	882	885	879	882	89.0	12.9	1,016
12:32	880	885	879	881	86.1	12.9	1,011
12:33	878	884	878	880	84.7	13.1	1,003
12:34	878	883	877	879	85.5	12.8	1,008
12:35	877	882	876	878	85.2	12.9	1,017
12:36	877	882	876	878	85.1	13.1	1,018
12:37	879	883	878	880	84.8	12.9	1,002
12:38	881	884	879	882	84.6	13.0	1,011
12:39	883	885	880	883	87.4	13.1	1,011
12:40	883	886	880	883	87.6	12.8	1,004
12:41	881	885	879	882	85.9	13.0	1,005
12:42	881	885	878	881	84.6	13.0	1,007
12:43	881	885	879	882	82.4	13.1	1,015
12:44	879	884	878	881	84.2	13.0	1,011
12:45	878	884	878	880	85.3	12.9	1,018
12:46	877	883	878	879	85.1	12.9	1,017
12:47	878	883	877	879	84.4	13.0	1,098
12:48	880	884	878	881	84.7	13.0	1,051
12:49	881	884	879	881	86.3	13.0	1,042
12:50	880	885	879	881	87.9	13.0	1,018
12:51	880	884	879	881	85.3	12.9	1,020
12:52	881	884	879	881	84.2	12.8	1,017
12:53	882	885	879	882	85.1	13.0	1,024
12:54	882	885	880	882	86.0	13.0	1,015
12:55	881	886	880	882	86.5	12.8	1,010
12:56	880	885	879	882	85.2	13.2	1,012
12:57	880	885	878	881	86.7	13.1	1,016
12:58	881	885	879	882	87.2	12.8	1,011
12:59	881	885	879	882	86.0	12.9	1,006
13:00	878	884	878	880	86.0	13.1	997
13:01	876	882	876	878	88.4	13.0	991
13:02	876	881	875	877	85.5	13.3	998
13:03	878	881	876	878	85.0	13.0	1,004
13:04	880	883	878	880	87.3	13.3	1,004
13:05	882	884	880	882	85.2	13.2	1,005
13:06	883	886	880	883	85.0	12.9	1,005
13:07	882	886	880	883	82.3	13.1	1,008
13:08	882	886	880	883	83.3	12.9	999
13:09	882	886	881	883	86.2	12.8	996
13:10	881	886	880	882	87.7	12.8	989
13:11	879	884	878	881	83.7	12.8	982
13:12	878	883	878	880	85.4	12.9	986
13:13	878	883	878	880	86.4	13.1	989
13:14	878	883	878	880	82.4	13.0	988
13:15	878	883	877	879	84.9	13.0	984
13:16	879	882	877	879	84.8	13.3	997
13:17	881	884	880	882	84.6	13.0	1,000
13:18	881	885	880	882	85.1	12.9	987
13:19	881	885	880	882	82.7	13.0	983
13:20	882	885	880	882	81.2	12.9	994
13:21	882	886	880	882	85.7	13.3	984
13:22	881	885	879	882	86.2	12.9	979
13:23	881	885	880	882	84.3	13.0	983
13:24	880	885	879	881	85.0	13.1	982
13:25	879	884	879	881	86.8	13.1	976
13:26	878	884	878	880	85.0	12.8	981
13:27	876	882	877	879	86.0	13.1	991
13:28	878	882	877	879	85.0	13.0	992
13:29	880	883	878	881	83.4	13.3	984
13:30	882	885	880	882	84.9	13.1	998
13:31	881	885	880	882	86.4	12.9	998
13:32	881	885	880	882	81.5	12.9	988
13:33	881	885	879	882	85.9	12.8	980

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
13:34	882	886	880	883	84.0	13.1	981
13:35	881	886	880	883	83.7	13.0	985
13:36	880	885	880	881	84.1	13.0	993
13:37	880	884	879	881	84.4	12.9	989
13:38	880	885	880	882	84.7	12.8	996
13:39	878	884	878	880	83.3	13.0	990
13:40	877	883	877	879	84.9	12.8	998
13:41	877	882	877	878	83.9	12.9	988
13:42	876	881	876	878	82.8	13.0	986
13:43	879	882	878	880	84.3	13.2	998
13:44	880	884	879	881	84.7	12.9	1,003
13:45	881	885	880	882	87.4	13.3	1,027
13:46	882	886	880	883	84.7	12.9	1,040
13:47	882	886	880	883	85.8	12.8	997
13:48	882	886	880	883	85.6	13.0	991
13:49	881	885	879	882	84.3	13.1	992
13:50	880	885	879	881	84.6	13.1	1,001
13:51	881	885	879	881	85.7	13.0	1,009
13:52	880	885	879	881	86.8	12.9	1,007
13:53	879	884	878	881	85.5	13.2	1,004
13:54	879	883	878	880	86.4	13.1	993
13:55	878	882	877	879	86.6	13.0	988
13:56	878	882	878	879	86.3	12.9	1,000
13:57	880	884	880	881	86.0	13.2	996
13:58	881	885	880	882	85.1	13.1	1,010
13:59	880	885	879	881	83.8	13.0	1,012
14:00	881	885	880	882	84.2	13.0	1,009
14:01	881	885	880	882	84.7	13.4	1,006
14:02	881	885	880	882	85.8	13.1	1,005
14:03	881	885	879	881	83.1	12.9	999
14:04	880	885	879	881	86.1	13.3	1,016
14:05	881	884	879	881	86.8	13.0	1,005
14:06	881	885	879	882	85.5	12.9	1,000
14:07	880	884	878	881	87.2	13.1	1,004
14:08	879	884	878	881	85.7	13.0	1,006
14:09	880	884	879	881	83.5	13.0	998
14:10	880	884	879	881	83.8	13.1	1,006
14:11	881	885	880	882	84.7	12.9	1,006
14:12	880	885	879	881	84.8	13.1	1,018
14:13	877	883	878	880	84.7	13.0	1,003
14:14	876	882	876	878	82.8	13.0	1,003
14:15	877	881	876	878	85.6	12.9	1,013
14:16	880	883	878	880	86.6	13.1	1,000
14:17	880	884	879	881	83.5	13.1	1,003
14:18	881	885	880	882	85.8	12.8	1,002
14:19	882	886	881	883	84.0	13.1	1,014
14:20	882	886	881	883	85.8	13.0	997
14:21	882	886	880	882	87.0	13.1	992
14:22	881	885	879	882	84.0	12.7	996
14:23	880	885	879	881	82.2	13.1	1,004
14:24	881	885	879	882	83.9	13.0	1,008
14:25	881	885	879	881	85.0	13.4	1,012
14:26	879	884	879	881	85.4	13.1	1,006
14:27	878	883	878	880	84.5	13.0	1,007
14:28	877	882	877	879	85.2	12.8	1,010
14:29	878	882	878	879	82.7	12.9	1,015
14:30	880	884	879	881	83.2	13.1	1,006
14:31	882	885	880	883	87.3	13.1	1,010
14:32	881	885	879	882	84.9	12.8	1,010
14:33	882	886	880	882	83.2	12.8	1,014
14:34	882	886	880	883	87.3	13.0	1,006
14:35	881	885	879	882	84.9	13.3	1,007
14:36	880	885	879	881	84.9	13.0	1,003

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
14:37	879	884	878	880	84.4	13.1	999
14:38	879	883	878	880	85.3	13.2	1,008
14:39	878	883	877	879	83.0	12.9	1,007
14:40	878	882	877	879	84.3	12.8	998
14:41	880	883	878	880	85.9	13.0	1,051
14:42	882	885	880	882	81.7	13.2	1,081
14:43	882	885	880	882	85.9	12.8	1,072
14:44	880	885	879	881	87.1	13.0	1,038
14:45	880	884	879	881	83.4	13.0	1,018
14:46	879	884	878	880	84.1	12.9	1,005
14:47	878	883	877	880	84.1	13.0	1,002
14:48	878	883	878	880	87.6	12.9	1,003
14:49	878	883	878	880	84.1	13.0	998
14:50	879	884	879	881	83.7	13.4	997
14:51	881	885	880	882	84.8	13.0	997
14:52	881	885	879	882	84.9	12.9	985
14:53	881	885	880	882	84.0	12.9	996
14:54	882	886	880	883	84.0	13.1	1,007
14:55	882	886	880	883	85.3	13.0	1,002
14:56	882	886	879	882	84.3	13.0	991
14:57	881	885	879	882	86.2	12.9	1,003
14:58	881	885	879	882	86.4	13.0	990
14:59	882	885	879	882	83.3	12.8	990
15:00	881	885	879	881	86.8	12.8	997
15:01	879	884	878	880	82.4	13.2	1,003
15:02	877	883	878	879	83.7	13.2	1,000
15:03	876	882	876	878	85.6	12.8	998
15:04	878	882	878	879	86.2	13.0	1,009
15:05	880	884	879	881	83.6	13.0	995
15:06	881	885	880	882	85.7	12.9	1,003
15:07	882	886	881	883	86.6	12.9	1,008
15:08	882	886	880	883	85.4	12.7	1,017
15:09	881	885	879	882	82.6	13.0	1,024
15:10	880	885	878	881	87.3	13.1	1,028
15:11	879	884	878	881	85.1	13.0	1,013
15:12	879	883	878	880	85.8	13.0	1,015
15:13	879	883	878	880	85.6	12.9	1,009
15:14	879	884	879	881	84.1	12.9	1,011
15:15	878	883	878	880	84.3	13.2	1,010
15:16	877	882	877	879	84.5	12.9	1,018
15:17	879	882	877	879	84.2	13.0	1,012
15:18	880	883	878	880	84.9	12.8	1,014
15:19	881	884	879	881	83.9	13.0	1,005
15:20	882	885	880	882	84.6	13.1	995
15:21	882	886	880	883	85.1	13.1	999
15:22	881	886	880	882	84.3	12.8	1,004
15:23	882	886	880	883	83.8	12.9	1,017
15:24	881	886	880	882	85.2	12.8	1,010
15:25	881	885	880	882	86.0	12.9	1,016
15:26	881	885	880	882	85.7	13.1	1,018
15:27	881	885	879	882	86.8	12.9	1,016
15:28	879	884	879	881	83.1	13.0	1,014
15:29	879	884	879	880	86.4	13.1	1,021
15:30	879	884	878	880	87.6	13.1	1,010
15:31	878	884	879	880	85.0	13.1	1,011
15:32	879	884	879	880	83.8	12.9	1,005
15:33	880	884	879	881	85.3	12.9	1,003
15:34	879	884	878	880	86.7	12.9	1,003
15:35	880	884	879	881	85.9	13.1	999
15:36	880	885	880	881	82.5	12.9	998
15:37	880	885	879	881	87.0	13.1	994
15:38	881	885	879	882	84.7	13.4	994
15:39	882	886	880	882	83.4	13.3	998



**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/16/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
15:40	881	885	879	882	86.5	12.8	1,001
15:41	881	885	879	882	83.4	13.2	1,002
15:42	880	885	879	881	85.5	13.0	998
15:43	881	885	879	882	85.0	13.0	992
15:44	880	885	879	881	85.6	12.7	998
15:45	880	884	879	881	84.6	13.0	1,001
Average	880	884	879	881	85.1	13.0	1,005
Minimum	876	881	875	877	81.2	12.7	976
Maximum	883	887	882	884	89.0	13.4	1,098

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	4
Date:	05/16/2024
Start Time:	11:40
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	15:45

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:40	1,253	19,381	129	5.60	3.64	1.81
11:41	1,260	19,632	129	5.54	3.67	1.80
11:42	1,265	19,181	129	6.15	3.68	1.73
11:43	1,265	19,651	129	4.29	3.71	1.73
11:44	1,259	19,623	129	5.12	3.72	1.75
11:45	1,257	19,489	129	5.61	3.72	1.75
11:46	1,254	19,016	129	5.16	3.73	1.77
11:47	1,254	19,049	129	5.28	3.74	1.82
11:48	1,251	19,294	130	4.42	3.75	1.76
11:49	1,248	18,917	129	4.21	3.77	1.82
11:50	1,248	19,058	130	5.20	3.77	1.83
11:51	1,248	19,509	129	6.16	3.78	1.82
11:52	1,251	19,163	129	7.50	3.80	1.77
11:53	1,260	19,080	130	5.70	3.82	1.76
11:54	1,261	18,581	129	5.32	3.84	1.80
11:55	1,260	19,126	129	5.68	3.84	1.78
11:56	1,262	19,191	129	4.92	3.84	1.76
11:57	1,261	19,270	129	4.31	3.85	1.78
11:58	1,261	19,009	129	5.11	3.85	1.81
11:59	1,257	19,001	129	5.50	3.85	1.74
12:00	1,254	19,297	129	5.61	3.85	1.77
12:01	1,250	18,984	129	6.51	3.87	1.80
12:02	1,249	18,945	129	7.38	3.88	1.80
12:03	1,249	19,277	129	6.89	3.90	1.80
12:04	1,250	19,380	129	6.86	3.91	1.81
12:05	1,257	19,470	129	7.03	3.93	1.82
12:06	1,265	19,104	129	6.50	3.94	1.80
12:07	1,268	19,420	129	5.14	3.95	1.76
12:08	1,264	19,128	129	4.59	3.97	1.74
12:09	1,262	18,894	129	4.51	3.96	1.72
12:10	1,263	19,310	129	3.43	3.95	1.72
12:11	1,260	19,147	129	4.86	3.95	1.74
12:12	1,256	18,251	129	4.04	3.96	1.71
12:13	1,257	18,254	129	5.53	3.96	1.77
12:14	1,258	19,018	129	6.10	3.96	1.81
12:15	1,257	18,997	129	5.77	3.96	1.80
12:16	1,260	19,076	129	4.88	3.98	1.83
12:17	1,254	19,197	129	6.02	3.95	1.78
12:18	1,255	19,413	129	5.64	3.95	1.75
12:19	1,253	19,050	129	7.00	3.97	1.81
12:20	1,255	19,260	129	8.30	3.98	1.81
12:21	1,263	18,947	129	6.36	4.00	1.80
12:22	1,260	18,684	129	7.31	4.04	1.77
12:23	1,256	18,976	130	5.54	4.06	1.76
12:24	1,266	19,294	130	5.56	4.06	1.78
12:25	1,271	19,366	130	5.04	4.06	1.78
12:26	1,267	19,369	130	5.64	4.07	1.79
12:27	1,269	19,050	129	6.89	4.08	1.79
12:28	1,267	19,179	129	5.16	4.09	1.78
12:29	1,263	18,841	129	5.07	4.10	1.78
12:30	1,263	19,279	129	5.56	4.11	1.81

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
12:31	1,258	19,077	129	5.09	4.12	1.79
12:32	1,248	19,004	129	7.06	4.13	1.78
12:33	1,247	19,095	129	8.07	4.14	1.82
12:34	1,245	19,246	129	7.40	4.16	1.80
12:35	1,256	19,079	129	7.11	4.18	1.82
12:36	1,265	19,320	129	7.70	4.22	1.80
12:37	1,269	19,433	129	5.27	4.24	1.80
12:38	1,270	19,142	129	4.54	4.25	1.77
12:39	1,266	19,441	129	5.16	4.25	1.76
12:40	1,264	19,490	129	5.75	4.24	1.79
12:41	1,263	19,206	130	5.88	4.21	1.80
12:42	1,263	18,833	130	7.05	4.21	1.81
12:43	1,257	18,642	129	6.69	4.21	1.76
12:44	1,253	19,111	130	5.65	4.24	1.76
12:45	1,253	19,352	129	6.49	4.25	1.81
12:46	1,251	18,933	129	6.23	4.27	1.78
12:47	1,249	18,771	129	6.45	4.28	1.78
12:48	1,250	18,929	129	5.77	4.28	1.76
12:49	1,253	18,996	129	5.52	4.30	1.76
12:50	1,257	18,938	129	4.64	4.31	1.75
12:51	1,264	18,865	129	5.99	4.32	1.78
12:52	1,265	19,240	129	5.51	4.32	1.71
12:53	1,261	19,169	129	6.59	4.32	1.70
12:54	1,260	19,283	129	5.31	4.30	1.72
12:55	1,260	19,105	129	7.02	4.31	1.75
12:56	1,263	19,227	129	5.91	4.31	1.79
12:57	1,263	18,962	129	5.74	4.30	1.75
12:58	1,261	18,786	129	5.39	4.30	1.77
12:59	1,260	18,933	129	6.37	4.31	1.74
13:00	1,250	18,813	129	7.58	4.32	1.79
13:01	1,248	18,744	129	9.72	4.33	1.79
13:02	1,260	19,432	129	7.27	4.35	1.80
13:03	1,268	19,552	129	4.97	4.36	1.79
13:04	1,277	19,165	129	4.63	4.37	1.75
13:05	1,276	18,977	129	4.46	4.37	1.72
13:06	1,272	18,568	129	4.56	4.34	1.74
13:07	1,271	18,634	130	4.48	4.31	1.68
13:08	1,268	18,802	130	4.49	4.29	1.71
13:09	1,264	18,873	129	5.41	4.29	1.70
13:10	1,258	18,643	130	6.06	4.28	1.71
13:11	1,258	18,860	130	6.28	4.30	1.72
13:12	1,256	18,932	129	6.03	4.32	1.72
13:13	1,257	19,139	129	8.66	4.34	1.73
13:14	1,257	18,540	129	6.67	4.36	1.78
13:15	1,261	19,235	129	6.44	4.39	1.78
13:16	1,270	19,542	129	6.31	4.43	1.75
13:17	1,273	19,442	130	4.69	4.44	1.72
13:18	1,273	19,213	130	4.60	4.44	1.73
13:19	1,271	18,645	130	5.63	4.43	1.74
13:20	1,269	19,773	130	5.79	4.42	1.72
13:21	1,269	19,381	130	4.72	4.40	1.73
13:22	1,268	19,073	130	4.45	4.37	1.74
13:23	1,269	18,912	129	5.86	4.36	1.74
13:24	1,267	19,454	129	5.96	4.35	1.73
13:25	1,255	19,821	129	6.83	4.35	1.74
13:26	1,249	19,094	129	6.77	4.35	1.73
13:27	1,255	19,605	129	8.60	4.34	1.76
13:28	1,270	18,783	129	6.92	4.35	1.75
13:29	1,272	19,545	129	7.03	4.38	1.72
13:30	1,273	19,180	129	5.25	4.41	1.75
13:31	1,274	19,281	129	5.27	4.43	1.70
13:32	1,271	19,708	129	5.43	4.43	1.72
13:33	1,271	19,190	129	5.64	4.43	1.73

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
13:34	1,269	19,142	129	6.12	4.42	1.72
13:35	1,265	19,123	129	6.24	4.37	1.73
13:36	1,261	19,548	129	6.31	4.35	1.73
13:37	1,260	19,277	130	5.50	4.33	1.73
13:38	1,259	19,166	129	7.31	4.33	1.71
13:39	1,257	19,556	129	6.78	4.34	1.71
13:40	1,259	19,042	129	6.37	4.37	1.73
13:41	1,259	19,102	129	6.35	4.39	1.71
13:42	1,271	19,514	129	7.90	4.40	1.78
13:43	1,276	19,435	129	8.65	4.41	1.69
13:44	1,277	19,081	129	4.90	4.42	1.70
13:45	1,274	18,985	129	4.74	4.43	1.70
13:46	1,274	18,880	129	4.79	4.42	1.72
13:47	1,275	19,330	129	5.70	4.40	1.71
13:48	1,270	19,563	129	5.37	4.38	1.71
13:49	1,271	18,956	129	4.83	4.38	1.74
13:50	1,266	19,327	129	4.98	4.38	1.78
13:51	1,267	19,297	129	6.46	4.38	1.75
13:52	1,266	19,211	129	6.35	4.37	1.74
13:53	1,260	19,261	129	6.75	4.38	1.73
13:54	1,260	19,058	129	5.54	4.40	1.74
13:55	1,259	19,513	129	5.27	4.40	1.77
13:56	1,263	19,068	129	6.04	4.41	1.71
13:57	1,265	19,155	129	6.37	4.42	1.70
13:58	1,266	19,121	129	7.03	4.42	1.78
13:59	1,263	19,412	129	5.79	4.44	1.73
14:00	1,266	19,379	129	7.55	4.44	1.72
14:01	1,268	19,290	129	5.84	4.45	1.71
14:02	1,263	19,313	129	6.04	4.45	1.71
14:03	1,265	19,171	129	5.37	4.43	1.72
14:04	1,264	19,373	129	5.62	4.42	1.68
14:05	1,266	19,005	129	5.24	4.41	1.71
14:06	1,260	19,083	129	6.97	4.42	1.73
14:07	1,265	19,064	129	6.39	4.43	1.73
14:08	1,263	18,923	129	5.24	4.45	1.73
14:09	1,267	19,188	129	5.03	4.48	1.71
14:10	1,265	19,745	129	5.43	4.49	1.72
14:11	1,256	19,102	129	7.40	4.49	1.75
14:12	1,252	18,985	129	6.44	4.48	1.70
14:13	1,247	19,248	129	7.36	4.49	1.74
14:14	1,252	19,136	129	8.41	4.51	1.75
14:15	1,266	19,170	129	6.54	4.50	1.70
14:16	1,264	19,308	129	4.91	4.50	1.72
14:17	1,270	19,457	129	4.92	4.50	1.73
14:18	1,274	19,025	129	4.50	4.49	1.70
14:19	1,273	19,510	129	5.49	4.49	1.71
14:20	1,269	19,441	129	5.67	4.49	1.67
14:21	1,269	19,501	129	6.06	4.49	1.72
14:22	1,266	19,440	129	6.37	4.50	1.71
14:23	1,267	19,393	129	6.11	4.50	1.68
14:24	1,263	19,203	129	5.86	4.52	1.72
14:25	1,255	19,438	129	6.33	4.53	1.73
14:26	1,247	19,447	129	7.51	4.54	1.75
14:27	1,249	19,101	129	6.51	4.55	1.77
14:28	1,254	18,837	129	6.43	4.56	1.77
14:29	1,262	19,320	129	6.82	4.56	1.72
14:30	1,269	19,414	129	7.12	4.56	1.71
14:31	1,269	19,597	129	7.23	4.56	1.71
14:32	1,268	19,060	129	5.18	4.56	1.72
14:33	1,266	19,483	129	6.69	4.57	1.68
14:34	1,265	19,384	129	4.74	4.58	1.70
14:35	1,260	19,001	128	5.34	4.58	1.74
14:36	1,255	19,088	129	5.29	4.58	1.73

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:37	1,253	19,228	129	7.09	4.57	1.73
14:38	1,254	19,011	129	7.80	4.56	1.76
14:39	1,254	18,930	129	6.43	4.57	1.74
14:40	1,257	19,424	129	7.43	4.57	1.74
14:41	1,265	19,257	129	7.16	4.58	1.73
14:42	1,252	19,463	129	4.70	4.57	1.67
14:43	1,252	19,404	129	5.43	4.58	1.74
14:44	1,255	19,394	129	6.74	4.54	1.66
14:45	1,259	19,231	129	7.27	4.53	1.75
14:46	1,258	19,374	129	7.22	4.54	1.77
14:47	1,259	19,487	129	6.03	4.57	1.69
14:48	1,260	19,118	129	6.84	4.58	1.72
14:49	1,262	19,202	129	5.91	4.58	1.72
14:50	1,271	19,309	129	5.83	4.58	1.71
14:51	1,271	19,426	129	5.74	4.59	1.71
14:52	1,271	19,535	129	5.28	4.60	1.70
14:53	1,273	19,237	129	4.71	4.59	1.73
14:54	1,269	19,040	129	6.28	4.58	1.70
14:55	1,268	19,255	129	4.40	4.56	1.71
14:56	1,265	19,011	129	5.62	4.56	1.75
14:57	1,265	19,134	129	4.57	4.55	1.75
14:58	1,261	19,021	129	5.57	4.53	1.76
14:59	1,257	19,276	129	7.36	4.52	1.72
15:00	1,247	19,261	129	8.24	4.50	1.69
15:01	1,248	19,235	129	6.74	4.51	1.72
15:02	1,249	18,646	129	7.49	4.52	1.74
15:03	1,251	19,046	129	7.84	4.53	1.77
15:04	1,264	19,002	129	6.97	4.55	1.71
15:05	1,266	19,317	129	6.16	4.57	1.71
15:06	1,266	19,332	129	6.53	4.58	1.71
15:07	1,264	19,271	129	6.77	4.58	1.69
15:08	1,259	19,348	129	6.31	4.58	1.70
15:09	1,257	19,338	129	4.86	4.59	1.69
15:10	1,257	19,407	129	6.14	4.60	1.72
15:11	1,255	19,349	129	6.24	4.60	1.72
15:12	1,260	18,452	129	5.91	4.58	1.76
15:13	1,261	18,834	129	5.61	4.58	1.71
15:14	1,251	18,983	129	5.39	4.57	1.69
15:15	1,249	19,276	129	7.44	4.54	1.72
15:16	1,252	19,219	129	6.26	4.51	1.72
15:17	1,262	19,398	129	7.43	4.51	1.72
15:18	1,265	19,418	129	5.67	4.53	1.72
15:19	1,269	19,272	129	6.85	4.55	1.69
15:20	1,268	18,581	129	5.56	4.55	1.71
15:21	1,269	19,225	129	6.43	4.56	1.73
15:22	1,268	19,075	129	5.26	4.56	1.72
15:23	1,266	19,354	129	4.64	4.56	1.69
15:24	1,262	19,051	129	4.46	4.54	1.72
15:25	1,261	19,197	129	5.29	4.53	1.74
15:26	1,257	19,345	129	6.16	4.51	1.73
15:27	1,255	19,046	129	5.30	4.50	1.73
15:28	1,251	19,176	129	6.17	4.47	1.73
15:29	1,250	19,056	129	8.22	4.45	1.75
15:30	1,254	19,271	129	7.05	4.43	1.76
15:31	1,252	18,801	129	6.42	4.43	1.77
15:32	1,254	19,336	129	6.48	4.43	1.74
15:33	1,258	19,676	129	7.38	4.46	1.71
15:34	1,265	19,420	129	6.62	4.46	1.71
15:35	1,265	19,062	129	5.69	4.49	1.69
15:36	1,261	19,466	129	5.81	4.50	1.70
15:37	1,263	19,444	129	5.51	4.51	1.70
15:38	1,266	19,246	129	4.91	4.51	1.73
15:39	1,266	19,224	129	5.59	4.50	1.73

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 4**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/16/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
15:40	1,263	19,002	129	6.19	4.48	1.70
15:41	1,261	19,026	129	5.42	4.47	1.71
15:42	1,262	19,050	129	6.54	4.46	1.75
15:43	1,262	19,194	129	7.23	4.46	1.76
15:44	1,261	19,161	129	7.59	4.48	1.71
15:45	1,260	19,067	129	5.89	4.50	1.71
Average	1,261	19,178	129	6.03	4.33	1.74
Minimum	1,245	18,251	128	3.43	3.64	1.66
Maximum	1,277	19,821	130	9.72	4.60	1.83

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	5
Date:	05/17/2024
Start Time:	07:00
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	11:05

Parameter	Units	Acrylic Acid Water	AA-E2 Residue
Heating value	Btu/lb	398	11,700

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
07:00	881	885	881	883	84.0	13.0	990
07:01	881	886	881	883	84.7	13.0	984
07:02	882	887	882	883	85.2	13.1	989
07:03	882	887	882	884	85.8	13.0	986
07:04	883	887	882	884	86.4	12.9	990
07:05	881	887	882	883	85.3	13.2	995
07:06	880	886	882	883	84.5	13.1	993
07:07	878	886	881	882	84.3	13.2	997
07:08	879	885	880	881	85.7	12.9	1,002
07:09	878	884	880	881	87.4	12.9	1,006
07:10	878	884	880	880	86.9	13.2	1,009
07:11	876	883	878	879	85.6	12.9	997
07:12	876	882	878	879	85.3	12.9	989
07:13	876	882	878	879	86.9	12.9	992
07:14	876	882	878	879	84.9	12.9	986
07:15	876	882	878	878	82.6	13.1	1,003
07:16	877	882	879	880	84.6	13.2	1,008
07:17	880	884	881	882	83.3	13.2	999
07:18	881	886	881	883	87.2	13.3	1,001
07:19	881	886	880	882	86.2	13.0	990
07:20	881	886	880	883	86.3	13.2	1,000
07:21	881	886	881	883	87.4	13.2	1,026
07:22	881	886	882	883	86.2	12.9	1,006
07:23	881	887	882	883	83.4	13.0	1,012
07:24	879	885	881	882	83.4	13.0	1,009
07:25	877	884	879	880	83.8	13.0	1,006
07:26	875	882	878	879	87.4	12.9	1,018
07:27	875	882	878	878	85.0	13.0	1,005
07:28	874	881	877	878	83.8	13.0	1,009
07:29	878	882	879	880	84.4	13.1	1,014
07:30	879	884	879	881	85.1	12.9	1,005
07:31	879	883	879	880	86.8	12.9	1,017
07:32	879	884	880	881	83.0	13.0	1,005
07:33	879	884	879	881	86.5	12.9	1,009
07:34	879	884	880	881	87.3	13.0	1,005
07:35	881	885	881	882	86.9	12.9	1,007
07:36	881	886	882	883	86.2	12.9	999
07:37	881	886	882	883	86.8	12.8	1,005
07:38	881	886	881	883	85.1	13.1	1,015
07:39	881	886	881	882	85.4	12.8	1,003
07:40	879	885	880	882	85.2	12.9	991
07:41	879	885	881	882	83.8	13.2	997
07:42	878	885	881	881	85.2	13.2	998
07:43	878	884	880	881	84.7	13.1	995
07:44	878	884	880	881	86.7	13.2	1,002
07:45	877	884	880	880	84.7	12.8	997
07:46	877	883	879	880	86.0	12.7	993
07:47	877	883	879	880	84.1	12.8	1,002
07:48	878	883	879	880	84.2	12.9	1,007
07:49	877	884	879	880	82.1	12.9	1,025
07:50	876	883	879	879	86.5	12.8	1,002

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
07:51	877	883	880	880	82.8	13.2	1,009
07:52	878	884	880	880	86.2	13.3	1,024
07:53	878	884	880	881	84.7	12.8	1,008
07:54	879	884	880	881	86.7	12.7	1,002
07:55	880	885	881	882	86.1	13.1	996
07:56	881	886	881	882	88.0	12.9	991
07:57	881	886	882	883	83.4	13.0	997
07:58	880	886	882	883	86.2	12.9	993
07:59	878	885	880	881	84.3	12.9	990
08:00	878	884	880	881	86.6	13.2	992
08:01	878	884	880	881	86.3	13.1	993
08:02	878	884	881	881	85.7	12.8	1,002
08:03	878	884	880	881	85.5	13.1	1,016
08:04	877	884	880	880	83.6	12.9	1,013
08:05	876	883	879	879	82.7	13.2	1,020
08:06	876	882	877	878	85.5	13.1	1,107
08:07	878	883	878	880	86.1	13.0	1,050
08:08	880	884	879	881	84.2	12.7	1,040
08:09	879	884	879	881	82.6	13.1	1,025
08:10	879	884	880	881	83.8	12.9	1,017
08:11	879	885	881	881	85.5	12.7	1,007
08:12	879	885	881	882	89.3	13.2	1,007
08:13	879	885	880	881	85.2	12.9	1,002
08:14	877	884	880	881	86.3	12.9	996
08:15	877	884	879	880	83.3	13.0	994
08:16	879	885	881	881	86.5	13.2	991
08:17	878	885	880	881	83.7	12.7	993
08:18	879	884	880	881	84.6	12.8	993
08:19	879	884	880	881	84.8	13.1	995
08:20	878	884	880	881	88.2	13.2	1,002
08:21	879	884	880	881	84.5	13.2	1,000
08:22	878	884	880	881	85.9	12.8	993
08:23	879	884	880	881	86.0	13.0	992
08:24	878	884	879	880	83.7	13.0	990
08:25	878	884	879	880	84.2	13.2	998
08:26	878	884	880	880	83.0	13.2	991
08:27	877	884	880	880	83.8	12.9	997
08:28	878	884	880	880	83.6	12.9	992
08:29	877	884	880	880	84.1	13.0	994
08:30	877	884	880	880	85.4	13.0	995
08:31	877	883	879	880	83.3	13.0	994
08:32	878	884	881	881	86.1	12.8	996
08:33	878	884	879	880	83.9	13.1	986
08:34	878	884	879	881	85.2	13.2	1,000
08:35	879	884	880	881	82.8	12.9	990
08:36	877	884	880	881	83.9	12.9	990
08:37	878	884	880	881	85.1	13.0	986
08:38	878	885	881	881	85.0	12.9	995
08:39	878	884	880	881	85.5	12.9	983
08:40	878	884	880	881	85.2	13.0	991
08:41	879	885	881	882	86.0	13.0	996
08:42	879	885	881	882	87.1	13.0	1,017
08:43	876	883	878	879	84.0	13.1	1,012
08:44	876	882	877	878	85.3	13.4	993
08:45	878	882	878	879	86.8	13.0	987
08:46	879	883	879	880	83.8	12.8	992
08:47	881	885	881	882	84.2	12.9	994
08:48	881	886	881	883	87.3	13.2	998
08:49	881	886	881	883	84.7	12.9	996
08:50	881	886	881	882	85.9	13.2	990
08:51	881	886	881	882	86.2	13.1	987
08:52	881	886	881	882	87.7	13.0	979
08:53	880	886	880	882	87.2	12.9	985



**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
08:54	878	884	879	880	85.6	13.2	990
08:55	878	884	879	880	84.6	13.1	989
08:56	879	884	880	881	84.8	13.1	992
08:57	879	885	881	882	87.9	13.0	992
08:58	878	884	879	880	84.9	12.9	987
08:59	878	883	879	880	83.4	13.1	1,001
09:00	878	884	879	880	81.8	13.2	990
09:01	877	883	878	880	86.4	12.8	993
09:02	878	883	879	880	84.8	12.9	994
09:03	880	884	881	882	84.4	12.9	992
09:04	881	886	881	883	83.6	13.1	999
09:05	882	886	882	883	83.9	13.1	997
09:06	882	887	882	884	84.4	13.0	987
09:07	880	886	881	883	84.8	13.0	992
09:08	879	885	880	881	84.2	13.1	995
09:09	878	884	879	880	83.2	12.7	993
09:10	876	883	878	879	87.7	13.0	997
09:11	877	883	879	880	86.1	12.9	1,001
09:12	877	883	880	880	85.3	13.0	996
09:13	876	883	879	880	86.0	13.0	997
09:14	877	883	879	880	85.0	13.0	988
09:15	876	883	878	879	82.8	13.2	989
09:16	879	883	879	880	82.4	12.9	990
09:17	881	885	881	882	84.8	13.0	1,004
09:18	882	886	881	883	86.2	12.7	1,005
09:19	881	886	881	883	87.3	12.9	994
09:20	880	886	881	882	83.9	13.2	1,000
09:21	882	886	882	883	86.2	13.0	1,002
09:22	881	887	882	883	82.7	13.0	985
09:23	879	885	880	882	85.1	12.8	997
09:24	878	885	880	881	82.5	13.1	993
09:25	879	885	881	882	84.5	13.1	993
09:26	878	884	880	881	84.9	12.8	992
09:27	876	883	878	879	84.9	12.9	980
09:28	877	883	879	879	86.3	13.0	977
09:29	878	883	879	880	84.6	12.9	974
09:30	879	884	879	881	86.4	12.9	979
09:31	880	885	881	882	84.7	12.9	987
09:32	881	886	881	883	87.1	12.9	988
09:33	880	885	881	882	84.7	12.9	989
09:34	880	886	881	882	87.1	13.0	982
09:35	880	885	880	882	83.5	13.2	994
09:36	881	886	881	882	83.8	13.0	998
09:37	882	886	882	883	85.2	13.0	1,003
09:38	882	887	881	883	86.2	13.0	1,007
09:39	880	886	880	882	84.3	12.7	999
09:40	878	884	879	881	82.5	12.7	992
09:41	877	883	878	879	82.4	12.9	989
09:42	876	882	878	879	85.0	13.0	990
09:43	876	882	878	879	85.5	12.8	996
09:44	876	882	878	879	86.2	13.1	988
09:45	876	882	878	879	85.9	13.0	995
09:46	879	883	879	880	85.8	12.9	1,002
09:47	880	884	880	881	84.9	13.1	1,001
09:48	880	885	881	882	84.6	12.8	990
09:49	881	886	881	882	84.8	13.1	991
09:50	881	886	880	882	83.3	12.8	986
09:51	880	886	881	882	84.8	13.0	998
09:52	879	886	881	882	85.4	12.8	1,009
09:53	878	885	879	881	83.7	12.9	998
09:54	877	883	878	880	83.7	13.0	1,012
09:55	877	883	879	880	82.5	13.1	1,002
09:56	877	883	879	880	85.5	13.0	1,016

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
09:57	878	884	879	880	87.5	12.9	995
09:58	879	884	880	881	87.0	13.0	990
09:59	880	885	881	882	86.6	13.1	1,004
10:00	880	885	880	882	85.8	12.9	1,007
10:01	880	885	880	882	83.1	13.1	1,001
10:02	880	885	880	882	82.8	13.1	1,002
10:03	881	885	881	882	84.7	13.0	1,000
10:04	881	886	881	883	85.4	13.0	1,015
10:05	881	886	881	882	87.9	12.9	1,008
10:06	880	886	880	882	84.3	13.1	1,004
10:07	879	885	879	881	87.8	13.2	1,014
10:08	879	885	879	881	82.6	13.1	1,001
10:09	878	884	878	880	83.5	13.2	1,003
10:10	878	883	879	880	86.7	13.1	997
10:11	878	884	879	880	83.9	13.0	1,013
10:12	878	884	879	880	84.8	13.0	995
10:13	879	884	880	881	85.1	13.0	1,069
10:14	879	884	879	881	83.2	13.0	1,026
10:15	879	884	880	881	84.7	12.9	1,034
10:16	879	884	880	881	84.6	13.0	1,005
10:17	880	884	879	881	82.6	13.1	1,010
10:18	881	885	881	882	83.9	12.9	1,001
10:19	881	885	881	882	85.1	12.9	998
10:20	882	886	881	883	83.2	12.9	1,003
10:21	882	887	881	883	84.6	13.0	999
10:22	881	886	881	883	84.6	13.1	989
10:23	881	886	881	883	85.4	13.0	991
10:24	881	886	882	883	85.7	13.1	993
10:25	880	885	880	882	83.2	13.0	992
10:26	879	884	879	881	82.2	13.2	991
10:27	877	883	879	880	83.8	13.0	988
10:28	877	883	878	879	85.6	13.1	979
10:29	877	883	878	879	85.3	13.3	978
10:30	878	883	879	880	87.0	13.1	976
10:31	879	884	879	881	85.4	13.1	990
10:32	881	885	880	882	83.4	13.0	985
10:33	881	885	880	882	85.1	12.9	989
10:34	881	886	880	882	84.7	13.1	986
10:35	880	885	879	882	85.7	12.9	984
10:36	880	885	879	881	85.7	12.9	984
10:37	879	885	880	881	86.1	13.1	987
10:38	878	884	879	881	84.1	13.2	983
10:39	879	885	880	882	83.7	12.9	996
10:40	877	884	879	880	81.9	13.0	991
10:41	878	883	879	880	87.5	12.9	982
10:42	879	884	879	881	86.0	13.0	982
10:43	878	884	878	880	84.2	13.2	997
10:44	877	883	877	879	83.1	13.0	987
10:45	879	883	878	880	83.6	12.8	1,010
10:46	881	884	879	882	83.6	13.2	1,025
10:47	882	885	880	882	85.4	13.0	1,007
10:48	882	886	881	883	82.2	12.9	1,000
10:49	882	886	881	883	83.6	12.8	1,001
10:50	881	886	880	882	82.2	12.9	988
10:51	880	885	880	882	83.4	13.4	981
10:52	879	885	879	881	84.9	12.9	980
10:53	879	884	879	881	84.8	12.9	998
10:54	879	884	879	881	86.9	12.8	997
10:55	880	885	880	881	85.5	13.1	992
10:56	880	885	880	881	83.8	13.2	987
10:57	880	885	880	882	84.7	13.1	995
10:58	879	885	880	881	85.8	12.7	996
10:59	879	884	879	881	85.6	12.9	1,002

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
11:00	879	884	879	881	83.5	13.0	1,002
11:01	881	885	880	882	83.9	13.1	991
11:02	882	886	882	883	85.4	12.9	1,005
11:03	882	887	882	883	86.4	12.9	992
11:04	881	886	881	883	85.2	13.0	996
11:05	880	886	881	882	82.4	13.0	998
Average	879	884	880	881	85.0	13.0	998
Minimum	874	881	877	878	81.8	12.7	974
Maximum	883	887	882	884	89.3	13.4	1,107

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	5
Date:	05/17/2024
Start Time:	07:00
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	11:05

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
07:00	1,243	18,768	130	3.09	2.10	1.81
07:01	1,245	19,588	130	3.74	2.11	1.78
07:02	1,243	19,425	129	3.48	2.13	1.76
07:03	1,242	19,547	130	2.52	2.15	1.77
07:04	1,236	19,004	130	2.74	2.17	1.77
07:05	1,228	18,859	130	4.37	2.17	1.74
07:06	1,225	19,233	130	3.50	2.18	1.74
07:07	1,224	19,315	130	4.47	2.19	1.78
07:08	1,223	19,364	130	4.29	2.21	1.78
07:09	1,219	19,304	130	4.06	2.24	1.76
07:10	1,218	19,538	130	5.64	2.27	1.72
07:11	1,219	19,326	130	5.41	2.31	1.75
07:12	1,220	19,452	130	4.02	2.34	1.81
07:13	1,223	19,226	130	4.31	2.36	1.77
07:14	1,222	19,052	130	3.39	2.38	1.76
07:15	1,225	19,470	130	4.82	2.41	1.77
07:16	1,232	19,543	130	4.26	2.43	1.79
07:17	1,236	19,506	130	3.62	2.46	1.76
07:18	1,236	19,175	130	3.75	2.48	1.71
07:19	1,232	19,515	130	3.04	2.49	1.77
07:20	1,236	19,727	130	3.38	2.50	1.73
07:21	1,232	19,525	130	2.93	2.51	1.76
07:22	1,229	19,232	129	3.04	2.52	1.72
07:23	1,223	19,727	130	3.52	2.53	1.71
07:24	1,218	19,237	129	3.98	2.55	1.79
07:25	1,214	19,406	129	4.92	2.56	1.77
07:26	1,217	19,589	129	3.55	2.59	1.78
07:27	1,212	19,183	129	3.41	2.62	1.79
07:28	1,225	19,183	129	5.25	2.65	1.80
07:29	1,229	19,917	129	4.28	2.68	1.70
07:30	1,234	19,732	129	3.63	2.71	1.73
07:31	1,233	18,935	129	3.64	2.73	1.75
07:32	1,231	19,533	129	3.76	2.74	1.73
07:33	1,234	19,308	130	4.34	2.75	1.74
07:34	1,237	18,876	130	3.69	2.76	1.75
07:35	1,236	19,131	130	3.23	2.78	1.75
07:36	1,236	19,024	130	3.35	2.79	1.74
07:37	1,236	19,615	130	3.11	2.80	1.75
07:38	1,229	19,592	130	3.41	2.81	1.76
07:39	1,228	18,741	130	3.69	2.82	1.79
07:40	1,229	19,111	130	4.68	2.80	1.76
07:41	1,231	19,077	130	3.17	2.79	1.77
07:42	1,225	19,023	130	3.52	2.79	1.80
07:43	1,226	18,997	130	4.00	2.79	1.75
07:44	1,226	18,858	130	3.76	2.79	1.77
07:45	1,227	19,482	130	3.81	2.81	1.78
07:46	1,224	19,788	130	3.68	2.82	1.77
07:47	1,224	19,502	130	4.21	2.82	1.81
07:48	1,228	19,136	130	3.57	2.83	1.78
07:49	1,222	19,439	130	4.07	2.83	1.72
07:50	1,222	19,676	130	4.44	2.83	1.76

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
07:51	1,223	18,761	130	5.12	2.83	1.72
07:52	1,227	19,131	130	4.08	2.83	1.77
07:53	1,234	19,208	130	3.31	2.84	1.75
07:54	1,233	19,552	130	3.58	2.85	1.70
07:55	1,234	19,686	130	3.26	2.84	1.70
07:56	1,235	19,065	130	2.76	2.83	1.75
07:57	1,232	19,081	129	2.99	2.81	1.72
07:58	1,221	19,332	130	3.40	2.79	1.74
07:59	1,223	19,458	129	4.49	2.76	1.71
08:00	1,226	19,509	129	4.37	2.75	1.74
08:01	1,223	19,408	129	3.52	2.76	1.77
08:02	1,221	19,730	129	4.49	2.77	1.75
08:03	1,219	18,993	129	4.38	2.77	1.72
08:04	1,220	18,819	129	3.48	2.78	1.72
08:05	1,213	19,234	129	5.01	2.79	1.73
08:06	1,214	19,232	129	4.41	2.80	1.77
08:07	1,223	18,919	129	3.61	2.81	1.75
08:08	1,226	19,510	129	4.27	2.81	1.78
08:09	1,227	19,404	129	3.37	2.80	1.75
08:10	1,228	19,319	130	3.33	2.79	1.74
08:11	1,225	19,689	130	3.51	2.78	1.70
08:12	1,228	19,604	130	4.23	2.77	1.69
08:13	1,226	19,681	130	3.12	2.75	1.75
08:14	1,226	19,445	130	4.34	2.74	1.73
08:15	1,228	19,083	130	4.02	2.73	1.76
08:16	1,229	19,044	130	3.92	2.72	1.70
08:17	1,231	19,120	130	3.67	2.72	1.74
08:18	1,232	19,224	130	3.99	2.72	1.70
08:19	1,231	19,370	130	3.64	2.73	1.72
08:20	1,231	19,399	130	3.47	2.73	1.77
08:21	1,227	19,298	130	4.34	2.74	1.75
08:22	1,229	19,355	130	3.72	2.75	1.76
08:23	1,229	19,609	130	4.44	2.76	1.74
08:24	1,227	19,377	130	4.86	2.77	1.73
08:25	1,229	19,214	130	3.72	2.77	1.75
08:26	1,229	19,634	129	3.33	2.77	1.74
08:27	1,229	19,118	129	3.12	2.76	1.69
08:28	1,230	19,503	129	3.03	2.75	1.71
08:29	1,229	18,815	129	2.72	2.74	1.70
08:30	1,228	19,679	129	3.21	2.72	1.71
08:31	1,229	19,452	129	3.66	2.70	1.74
08:32	1,232	19,694	130	4.20	2.70	1.72
08:33	1,231	19,569	130	4.41	2.70	1.74
08:34	1,230	19,528	130	4.13	2.72	1.73
08:35	1,232	19,188	130	3.96	2.72	1.70
08:36	1,231	18,929	130	3.19	2.74	1.77
08:37	1,235	19,609	130	3.65	2.75	1.71
08:38	1,232	19,234	130	2.88	2.75	1.71
08:39	1,228	19,322	130	3.59	2.75	1.74
08:40	1,231	19,753	130	4.33	2.75	1.72
08:41	1,231	19,125	130	3.53	2.75	1.73
08:42	1,230	19,573	130	3.90	2.75	1.69
08:43	1,228	19,183	130	3.87	2.75	1.76
08:44	1,231	19,065	130	4.98	2.76	1.79
08:45	1,239	19,268	130	4.15	2.76	1.82
08:46	1,243	19,196	130	3.71	2.76	1.73
08:47	1,241	18,996	130	3.26	2.77	1.76
08:48	1,242	19,168	130	3.86	2.77	1.74
08:49	1,240	19,816	130	2.78	2.76	1.77
08:50	1,239	18,840	130	3.87	2.75	1.72
08:51	1,235	19,168	130	4.18	2.74	1.77
08:52	1,234	19,290	130	4.21	2.73	1.77
08:53	1,227	19,153	130	4.60	2.71	1.78

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
08:54	1,229	19,466	130	4.52	2.71	1.78
08:55	1,232	19,491	130	2.85	2.72	1.79
08:56	1,231	19,268	130	4.01	2.73	1.74
08:57	1,228	19,438	130	4.23	2.74	1.79
08:58	1,231	19,387	130	3.78	2.75	1.80
08:59	1,230	19,442	130	5.01	2.77	1.75
09:00	1,231	19,623	130	5.21	2.78	1.76
09:01	1,232	19,110	130	4.19	2.78	1.78
09:02	1,242	19,278	129	4.17	2.79	1.77
09:03	1,245	18,925	129	3.60	2.80	1.79
09:04	1,244	18,858	129	2.81	2.80	1.76
09:05	1,244	19,259	129	3.13	2.79	1.74
09:06	1,235	19,057	129	3.24	2.78	1.78
09:07	1,231	18,753	129	4.04	2.77	1.74
09:08	1,231	19,223	129	3.08	2.75	1.76
09:09	1,231	19,652	129	3.06	2.75	1.78
09:10	1,232	19,324	130	3.80	2.74	1.76
09:11	1,232	19,250	130	4.04	2.74	1.79
09:12	1,230	19,451	130	3.87	2.74	1.75
09:13	1,232	19,358	130	3.54	2.75	1.78
09:14	1,230	19,344	130	4.22	2.75	1.81
09:15	1,235	19,251	130	3.75	2.75	1.83
09:16	1,243	18,798	130	3.83	2.75	1.80
09:17	1,243	19,620	130	3.11	2.75	1.78
09:18	1,245	19,552	130	2.66	2.74	1.79
09:19	1,241	19,314	130	3.34	2.74	1.75
09:20	1,241	19,770	130	3.06	2.73	1.79
09:21	1,238	18,875	130	3.14	2.73	1.79
09:22	1,232	19,783	130	2.67	2.72	1.79
09:23	1,226	19,418	130	3.34	2.71	1.83
09:24	1,228	18,634	130	3.93	2.70	1.86
09:25	1,227	18,755	130	5.07	2.70	1.82
09:26	1,221	18,845	130	4.14	2.70	1.80
09:27	1,224	19,523	130	4.39	2.70	1.80
09:28	1,228	19,422	130	4.23	2.72	1.80
09:29	1,232	19,131	130	3.83	2.72	1.76
09:30	1,241	19,108	130	3.69	2.74	1.76
09:31	1,242	19,188	130	3.21	2.76	1.75
09:32	1,241	19,437	131	3.20	2.76	1.72
09:33	1,238	18,973	130	3.13	2.75	1.72
09:34	1,237	19,642	130	3.40	2.74	1.76
09:35	1,238	19,376	130	4.22	2.73	1.79
09:36	1,238	19,576	130	3.30	2.72	1.76
09:37	1,234	19,411	130	3.47	2.72	1.76
09:38	1,229	19,154	130	3.68	2.73	1.75
09:39	1,223	18,852	130	4.08	2.73	1.75
09:40	1,223	18,945	130	3.98	2.73	1.78
09:41	1,225	19,432	130	4.46	2.74	1.79
09:42	1,230	18,414	130	4.56	2.74	1.79
09:43	1,229	19,454	129	3.79	2.75	1.79
09:44	1,229	19,473	130	3.95	2.75	1.79
09:45	1,236	18,740	129	4.77	2.75	1.82
09:46	1,241	19,675	129	3.69	2.75	1.74
09:47	1,244	19,103	130	3.36	2.75	1.77
09:48	1,243	19,119	130	3.06	2.76	1.79
09:49	1,245	19,107	130	3.43	2.76	1.77
09:50	1,244	19,173	130	3.22	2.76	1.78
09:51	1,239	19,261	130	4.05	2.77	1.71
09:52	1,230	19,033	130	4.14	2.77	1.76
09:53	1,230	19,185	130	5.05	2.77	1.75
09:54	1,229	19,420	130	4.05	2.77	1.76
09:55	1,231	19,242	130	3.76	2.78	1.73
09:56	1,232	19,349	130	3.94	2.78	1.77

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
09:57	1,235	19,240	130	4.23	2.79	1.77
09:58	1,244	19,692	130	3.71	2.79	1.79
09:59	1,243	19,321	130	4.42	2.79	1.77
10:00	1,242	19,548	130	2.96	2.78	1.76
10:01	1,237	19,497	130	3.35	2.77	1.73
10:02	1,239	19,720	130	4.69	2.75	1.75
10:03	1,240	19,756	130	3.27	2.74	1.73
10:04	1,239	19,439	130	4.14	2.74	1.78
10:05	1,237	18,997	130	3.69	2.75	1.79
10:06	1,238	18,772	130	4.77	2.77	1.79
10:07	1,239	19,117	130	3.71	2.79	1.80
10:08	1,239	19,328	130	4.42	2.80	1.78
10:09	1,239	19,498	130	4.15	2.81	1.79
10:10	1,239	19,310	130	3.42	2.82	1.73
10:11	1,241	19,107	130	3.42	2.83	1.74
10:12	1,243	19,693	130	3.95	2.83	1.75
10:13	1,233	19,673	130	3.04	2.83	1.71
10:14	1,234	19,411	130	4.49	2.83	1.73
10:15	1,238	19,320	130	4.90	2.83	1.76
10:16	1,237	19,358	130	3.69	2.83	1.77
10:17	1,240	18,878	130	3.87	2.84	1.79
10:18	1,243	19,223	129	3.87	2.84	1.72
10:19	1,244	18,902	129	3.74	2.85	1.70
10:20	1,243	19,091	130	3.52	2.86	1.72
10:21	1,242	19,015	130	4.39	2.87	1.73
10:22	1,240	18,886	130	4.14	2.87	1.74
10:23	1,242	19,414	130	3.80	2.88	1.75
10:24	1,234	19,298	130	4.67	2.89	1.72
10:25	1,234	19,412	130	4.08	2.89	1.76
10:26	1,231	19,029	130	5.02	2.89	1.74
10:27	1,232	19,115	130	5.56	2.90	1.75
10:28	1,235	19,130	130	5.81	2.91	1.77
10:29	1,235	19,024	130	4.57	2.91	1.72
10:30	1,238	19,393	130	4.40	2.92	1.74
10:31	1,247	19,476	130	4.95	2.94	1.79
10:32	1,248	18,579	130	4.12	2.95	1.78
10:33	1,248	18,681	130	5.18	2.97	1.75
10:34	1,247	18,833	130	3.86	2.99	1.76
10:35	1,247	18,419	130	4.10	3.00	1.80
10:36	1,241	19,266	130	3.91	3.02	1.75
10:37	1,237	19,704	130	4.35	3.01	1.74
10:38	1,239	18,952	130	3.36	3.01	1.83
10:39	1,233	18,810	130	4.94	3.02	1.78
10:40	1,235	19,021	130	4.31	3.03	1.80
10:41	1,245	19,339	130	3.94	3.04	1.84
10:42	1,244	19,145	130	4.45	3.04	1.82
10:43	1,236	19,482	130	4.32	3.04	1.78
10:44	1,246	19,723	130	5.78	3.03	1.81
10:45	1,255	19,992	130	4.29	3.04	1.78
10:46	1,252	19,405	130	3.24	3.05	1.78
10:47	1,250	19,196	130	4.29	3.05	1.74
10:48	1,249	19,250	130	4.37	3.04	1.73
10:49	1,248	19,142	130	3.34	3.05	1.76
10:50	1,243	18,732	130	4.03	3.05	1.76
10:51	1,241	19,383	130	3.90	3.05	1.78
10:52	1,241	19,206	130	4.75	3.06	1.82
10:53	1,241	18,752	130	3.96	3.08	1.75
10:54	1,241	19,384	130	4.43	3.08	1.74
10:55	1,239	19,147	130	3.89	3.08	1.74
10:56	1,238	19,463	130	4.47	3.08	1.76
10:57	1,241	19,938	130	4.20	3.08	1.73
10:58	1,239	19,643	130	4.39	3.08	1.75
10:59	1,242	19,318	130	4.18	3.08	1.72

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 5**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:00	1,250	19,012	130	3.77	3.08	1.75
11:01	1,250	19,175	130	4.40	3.08	1.76
11:02	1,251	19,170	130	4.70	3.08	1.75
11:03	1,248	19,302	130	3.33	3.09	1.73
11:04	1,242	18,590	130	3.11	3.10	1.77
11:05	1,239	19,277	130	4.45	3.09	1.73
Average	1,234	19,277	130	3.90	2.76	1.76
Minimum	1,212	18,414	129	2.52	2.10	1.69
Maximum	1,255	19,992	131	5.81	3.10	1.86



**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	6
Date:	05/17/2024
Start Time:	11:38
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	15:43

Parameter	Units	Acrylic Acid Water	AA-E2 Residue
Heating value	Btu/lb	351	11,600

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
11:38	880	885	880	882	85.1	12.8	985
11:39	880	885	880	882	83.4	13.0	999
11:40	880	885	880	882	86.6	13.0	992
11:41	880	885	880	882	84.7	13.3	998
11:42	881	886	881	882	83.8	12.9	1,000
11:43	881	886	881	883	88.5	13.0	990
11:44	880	886	880	882	85.0	13.1	1,026
11:45	877	883	878	879	86.7	13.0	1,002
11:46	878	883	878	880	83.2	12.8	999
11:47	879	884	879	881	84.6	13.1	987
11:48	880	884	880	882	84.9	13.0	996
11:49	880	885	880	882	85.8	12.7	1,005
11:50	879	884	880	881	85.1	13.0	990
11:51	880	885	880	882	87.2	13.0	1,012
11:52	880	885	880	882	85.3	13.0	1,012
11:53	878	884	879	880	86.6	13.0	992
11:54	878	883	878	880	84.4	13.0	985
11:55	880	884	879	881	85.7	12.9	997
11:56	882	885	880	883	86.4	12.9	1,001
11:57	883	886	881	883	85.8	12.9	1,006
11:58	881	885	880	882	83.1	13.0	994
11:59	881	885	880	882	85.3	13.0	988
12:00	880	885	880	882	86.0	13.0	981
12:01	880	885	880	881	83.5	12.8	1,004
12:02	879	884	879	881	85.4	13.0	1,008
12:03	879	884	879	881	84.4	13.0	997
12:04	879	884	879	880	85.6	12.7	1,011
12:05	878	883	878	880	84.2	13.0	994
12:06	878	884	879	880	83.6	13.0	996
12:07	879	884	880	881	83.0	13.2	1,012
12:08	879	885	880	881	84.9	13.0	999
12:09	880	885	880	882	84.9	12.9	1,000
12:10	881	886	880	882	84.7	13.2	1,010
12:11	881	886	880	882	84.8	12.9	1,004
12:12	881	885	879	882	87.8	13.0	995
12:13	880	884	879	881	84.4	13.1	988
12:14	881	885	880	882	86.5	13.1	995
12:15	880	885	880	882	85.4	13.1	992
12:16	879	885	880	881	83.9	12.8	987
12:17	879	884	879	881	86.4	12.9	1,021
12:18	879	885	880	881	84.8	12.9	1,073
12:19	878	884	879	880	82.1	13.1	1,041
12:20	879	884	880	881	86.3	13.1	1,003
12:21	878	884	879	880	84.4	13.0	998
12:22	880	884	879	881	83.1	13.2	995
12:23	880	884	879	881	85.3	12.9	999
12:24	881	885	879	882	85.7	13.1	1,000
12:25	882	886	880	883	81.8	13.2	997
12:26	882	886	880	883	85.0	12.8	997
12:27	881	886	880	882	84.0	13.2	985
12:28	880	885	880	881	85.3	12.8	992

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
12:29	880	885	879	882	84.0	13.3	1,005
12:30	879	884	879	881	83.8	12.8	996
12:31	878	884	879	880	86.9	12.9	1,003
12:32	880	885	881	882	85.5	12.9	994
12:33	878	885	879	881	88.0	12.9	986
12:34	878	884	878	880	84.6	12.9	995
12:35	877	883	878	879	85.8	13.1	990
12:36	878	883	877	879	84.2	13.1	992
12:37	881	884	879	881	83.3	12.9	997
12:38	881	885	880	882	84.0	13.1	994
12:39	882	886	881	883	86.8	13.0	1,001
12:40	882	886	880	883	87.7	12.9	1,008
12:41	880	885	879	881	84.0	13.0	992
12:42	880	885	880	881	83.6	13.0	993
12:43	879	885	880	881	86.0	13.0	987
12:44	878	884	879	880	84.8	12.8	1,000
12:45	878	884	879	880	85.3	13.1	992
12:46	878	883	878	880	85.3	12.9	996
12:47	877	883	878	879	86.8	12.8	987
12:48	877	883	878	879	88.0	13.0	993
12:49	879	883	879	880	84.9	13.0	991
12:50	883	885	881	883	85.2	13.3	997
12:51	883	887	881	884	84.3	12.9	998
12:52	883	886	880	883	85.0	13.1	986
12:53	881	886	881	882	84.4	13.0	988
12:54	881	886	881	883	84.8	13.3	994
12:55	880	885	880	882	85.6	12.7	1,001
12:56	879	885	879	881	84.1	13.5	1,008
12:57	877	883	878	880	86.1	13.2	1,000
12:58	876	882	877	879	86.5	12.9	987
12:59	877	882	878	879	84.8	13.1	984
13:00	878	883	878	879	86.1	12.9	987
13:01	880	884	880	881	86.6	13.1	994
13:02	882	886	881	883	83.9	13.0	999
13:03	882	886	881	883	87.9	12.9	1,004
13:04	882	886	881	883	85.0	13.0	1,000
13:05	881	886	880	883	85.9	12.9	995
13:06	880	885	880	882	85.5	12.8	999
13:07	880	885	880	882	85.8	13.0	991
13:08	880	885	879	881	85.2	12.9	1,003
13:09	879	884	879	881	84.6	13.1	999
13:10	880	884	879	881	84.2	13.0	992
13:11	878	883	878	880	83.9	12.8	1,005
13:12	878	883	878	880	85.3	13.0	996
13:13	878	883	878	880	86.4	13.2	1,000
13:14	879	884	879	881	85.9	13.2	1,001
13:15	879	883	878	880	83.1	13.2	1,007
13:16	880	884	879	881	83.7	12.7	1,008
13:17	881	885	880	882	86.2	13.0	1,007
13:18	881	885	881	882	87.3	12.9	1,018
13:19	882	886	881	883	87.5	13.0	1,018
13:20	881	886	880	882	85.1	13.0	1,005
13:21	882	886	880	882	85.1	13.0	1,011
13:22	881	885	879	882	84.9	12.9	1,012
13:23	881	885	879	882	84.8	13.1	1,008
13:24	879	884	878	881	86.0	13.0	1,007
13:25	879	884	879	881	86.0	13.0	1,021
13:26	879	884	878	880	82.9	12.9	1,009
13:27	877	883	877	879	84.5	12.9	1,017
13:28	878	883	878	880	83.8	12.9	1,015
13:29	878	883	878	880	85.3	13.0	1,010
13:30	878	883	878	880	85.6	13.1	997
13:31	878	883	878	880	85.5	13.0	1,003

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
13:32	880	884	879	881	83.3	12.8	995
13:33	881	885	880	882	83.7	13.2	1,004
13:34	883	886	881	884	83.6	13.1	999
13:35	883	887	881	884	84.0	12.9	1,004
13:36	883	887	881	884	85.1	13.0	1,016
13:37	882	887	881	883	85.5	13.2	1,037
13:38	881	886	880	882	84.6	13.2	1,036
13:39	879	885	879	881	83.7	12.9	1,031
13:40	879	884	878	880	85.4	12.8	1,025
13:41	879	884	879	880	85.8	12.9	1,042
13:42	877	883	877	879	86.4	12.9	1,039
13:43	877	882	877	879	82.6	12.9	1,041
13:44	878	882	878	879	84.0	12.9	1,020
13:45	878	883	878	880	84.7	13.0	1,004
13:46	881	884	879	881	82.3	13.0	1,021
13:47	882	885	880	882	85.4	12.9	1,020
13:48	882	885	880	883	89.4	12.9	1,027
13:49	881	886	880	882	86.2	13.0	1,048
13:50	880	885	879	881	83.1	13.2	1,042
13:51	879	884	879	881	84.3	12.9	1,019
13:52	878	883	878	880	84.8	12.8	1,007
13:53	880	884	879	881	86.9	12.9	1,011
13:54	880	885	880	882	85.0	13.1	1,012
13:55	880	885	880	882	85.1	13.2	1,021
13:56	880	885	880	882	82.9	13.0	1,025
13:57	879	884	879	881	84.6	13.0	1,027
13:58	880	884	878	881	88.0	12.8	1,016
13:59	881	884	878	881	85.5	13.0	1,010
14:00	881	884	879	881	82.2	13.0	1,013
14:01	881	885	881	882	82.3	12.9	1,022
14:02	881	886	881	883	84.5	13.2	1,010
14:03	881	886	881	882	85.2	13.2	1,029
14:04	880	885	880	882	86.3	12.9	1,032
14:05	880	885	879	881	85.5	13.2	1,022
14:06	879	884	878	880	82.9	13.0	1,016
14:07	879	883	878	880	82.7	13.0	1,028
14:08	879	883	878	880	85.3	12.9	1,029
14:09	879	884	879	881	84.3	12.9	1,017
14:10	880	884	880	881	85.5	12.9	1,023
14:11	880	885	880	882	85.5	13.1	1,026
14:12	880	885	880	882	86.2	12.9	1,040
14:13	881	885	879	882	83.8	13.0	1,034
14:14	881	884	879	881	82.2	13.0	1,033
14:15	881	885	879	882	84.6	12.8	1,011
14:16	880	885	880	881	83.5	13.2	1,015
14:17	879	884	880	881	83.6	13.0	1,024
14:18	880	885	880	882	85.3	13.0	1,103
14:19	879	884	879	881	81.6	12.8	1,037
14:20	878	883	878	879	83.4	13.0	1,012
14:21	879	883	879	880	82.9	12.9	998
14:22	880	884	879	881	83.7	13.0	1,001
14:23	881	885	880	882	86.5	12.8	990
14:24	881	885	879	882	87.1	13.0	992
14:25	883	886	881	883	86.6	13.2	991
14:26	883	887	881	884	85.2	12.9	978
14:27	881	886	881	883	85.8	13.2	984
14:28	881	886	880	882	83.1	13.0	986
14:29	880	885	880	882	84.2	13.0	997
14:30	880	885	880	882	84.0	13.1	1,007
14:31	879	885	879	881	84.9	12.9	980
14:32	877	883	878	880	85.4	12.8	987
14:33	877	883	878	880	85.5	12.9	987
14:34	878	883	878	880	86.5	13.2	987

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
14:35	878	883	879	880	85.0	13.1	990
14:36	879	883	878	880	83.7	13.0	991
14:37	879	884	879	881	86.8	13.0	984
14:38	882	885	880	882	85.9	12.8	984
14:39	882	886	881	883	88.5	13.0	984
14:40	882	886	881	883	85.0	13.0	989
14:41	882	886	880	883	84.8	12.8	979
14:42	881	885	880	882	85.5	13.0	988
14:43	881	886	880	882	84.3	13.1	998
14:44	879	885	879	881	83.7	12.9	983
14:45	878	884	878	880	83.6	13.1	990
14:46	878	883	879	880	84.8	12.8	998
14:47	877	883	878	879	84.1	13.0	992
14:48	877	883	878	879	85.8	13.1	1,001
14:49	879	883	879	880	84.5	12.9	1,000
14:50	881	884	880	882	84.6	13.1	998
14:51	882	885	880	883	83.8	13.1	1,002
14:52	882	886	880	883	85.3	12.9	1,004
14:53	881	885	880	882	84.0	12.9	995
14:54	880	885	880	882	83.9	13.0	1,000
14:55	880	885	879	881	85.1	13.1	1,009
14:56	879	884	879	881	85.3	13.3	1,004
14:57	878	883	878	880	83.9	13.0	1,001
14:58	878	883	878	880	83.1	13.0	1,008
14:59	878	883	879	880	86.2	13.0	1,016
15:00	879	884	879	881	85.2	13.0	1,016
15:01	879	884	879	880	84.8	13.1	988
15:02	879	883	878	880	84.6	13.1	997
15:03	879	884	879	881	83.8	12.8	993
15:04	882	885	880	882	86.0	13.0	992
15:05	883	886	881	883	83.9	13.2	974
15:06	882	886	881	883	84.1	13.1	977
15:07	882	886	881	883	84.2	13.1	983
15:08	881	886	880	882	85.3	13.2	979
15:09	879	885	879	881	86.4	13.0	1,003
15:10	879	884	880	881	84.5	13.1	977
15:11	879	885	880	881	85.7	13.0	993
15:12	879	884	879	880	85.2	13.1	982
15:13	879	884	879	880	87.2	12.9	984
15:14	879	884	880	881	87.5	13.0	982
15:15	879	884	879	881	85.1	13.1	994
15:16	879	884	879	880	82.7	13.3	983
15:17	878	883	878	879	86.4	13.1	971
15:18	879	883	879	881	87.1	13.4	970
15:19	881	885	880	882	85.5	13.0	970
15:20	882	886	881	883	86.1	12.9	968
15:21	882	886	881	883	85.1	13.1	992
15:22	882	886	881	883	87.2	12.9	985
15:23	881	886	880	882	84.3	13.0	983
15:24	880	885	880	882	84.7	13.0	984
15:25	879	885	880	881	83.7	13.0	983
15:26	879	884	879	881	83.6	12.8	977
15:27	879	884	879	881	84.1	12.8	982
15:28	879	884	879	881	83.5	13.0	981
15:29	878	884	879	881	86.3	12.9	998
15:30	879	884	879	881	85.4	12.9	988
15:31	878	884	879	880	84.3	13.0	989
15:32	878	884	879	880	83.6	12.9	991
15:33	879	884	879	881	84.1	13.1	998
15:34	880	884	880	881	85.6	13.1	1,010
15:35	881	885	880	882	86.3	12.9	1,008
15:36	882	886	881	883	86.8	12.9	1,000
15:37	881	886	881	883	83.3	12.9	997

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/17/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
15:38	881	886	881	883	84.8	13.1	997
15:39	880	886	880	882	85.0	13.0	990
15:40	879	885	879	881	83.8	13.1	993
15:41	879	884	879	881	83.3	13.2	981
15:42	879	884	879	881	83.8	13.0	991
15:43	877	883	878	880	85.2	13.0	1,002
Average	880	885	879	881	85.0	13.0	1,002
Minimum	876	882	877	879	81.6	12.7	968
Maximum	883	887	881	884	89.4	13.5	1,103

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	6
Date:	05/17/2024
Start Time:	11:38
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	15:43

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:38	1,248	18,475	130	4.26	3.20	1.77
11:39	1,247	18,953	130	3.96	3.21	1.73
11:40	1,245	18,822	130	4.04	3.20	1.74
11:41	1,246	19,003	130	4.50	3.20	1.71
11:42	1,245	19,280	130	4.70	3.20	1.74
11:43	1,244	19,238	130	4.33	3.20	1.76
11:44	1,236	19,445	130	5.99	3.21	1.72
11:45	1,240	19,153	130	6.63	3.21	1.83
11:46	1,241	19,135	130	5.07	3.22	1.76
11:47	1,247	19,152	130	5.72	3.24	1.76
11:48	1,248	19,129	130	4.32	3.26	1.80
11:49	1,239	18,934	130	3.90	3.27	1.76
11:50	1,241	19,376	130	6.28	3.28	1.75
11:51	1,243	19,264	130	5.63	3.28	1.78
11:52	1,235	19,118	130	5.20	3.30	1.73
11:53	1,238	19,518	130	6.02	3.31	1.72
11:54	1,252	18,960	130	6.42	3.31	1.78
11:55	1,253	19,196	130	4.93	3.33	1.75
11:56	1,249	18,775	130	4.53	3.35	1.70
11:57	1,243	19,040	130	3.90	3.36	1.68
11:58	1,244	19,248	130	4.40	3.36	1.71
11:59	1,240	19,117	130	4.53	3.36	1.73
12:00	1,242	19,361	130	5.30	3.37	1.75
12:01	1,240	19,493	130	5.16	3.38	1.70
12:02	1,235	19,412	130	5.52	3.40	1.70
12:03	1,237	19,601	129	5.33	3.41	1.74
12:04	1,237	19,399	129	6.12	3.43	1.74
12:05	1,239	18,985	129	4.40	3.44	1.73
12:06	1,242	19,422	129	4.47	3.46	1.77
12:07	1,238	19,579	129	4.41	3.47	1.71
12:08	1,245	18,720	129	5.22	3.48	1.76
12:09	1,249	19,358	129	4.77	3.48	1.77
12:10	1,249	19,044	129	4.06	3.49	1.75
12:11	1,246	19,180	129	4.06	3.49	1.75
12:12	1,245	19,443	129	4.56	3.49	1.78
12:13	1,247	19,023	130	4.77	3.49	1.79
12:14	1,251	19,248	130	5.21	3.48	1.71
12:15	1,243	19,184	130	4.85	3.47	1.69
12:16	1,241	19,152	130	5.29	3.47	1.70
12:17	1,239	19,226	130	4.62	3.48	1.72
12:18	1,223	19,560	130	5.27	3.49	1.70
12:19	1,235	18,878	130	4.89	3.50	1.70
12:20	1,233	18,919	130	4.81	3.51	1.73
12:21	1,240	19,353	130	4.65	3.51	1.75
12:22	1,240	19,430	130	6.02	3.51	1.69
12:23	1,245	19,490	130	4.71	3.51	1.73
12:24	1,246	19,157	130	3.78	3.52	1.74
12:25	1,248	18,871	130	4.29	3.53	1.75
12:26	1,242	19,328	130	4.48	3.53	1.75
12:27	1,240	19,527	130	4.54	3.52	1.73
12:28	1,241	19,401	130	5.51	3.52	1.71

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
12:29	1,236	19,735	130	5.43	3.52	1.74
12:30	1,233	19,591	130	5.02	3.53	1.73
12:31	1,238	19,280	130	4.67	3.55	1.76
12:32	1,239	19,667	130	5.32	3.56	1.69
12:33	1,238	19,524	130	6.35	3.57	1.74
12:34	1,235	19,653	130	6.23	3.58	1.72
12:35	1,239	19,223	130	5.60	3.58	1.74
12:36	1,252	19,466	130	5.62	3.59	1.79
12:37	1,249	19,021	130	3.87	3.60	1.75
12:38	1,249	19,227	130	4.09	3.61	1.72
12:39	1,247	19,107	130	4.03	3.60	1.74
12:40	1,242	18,958	130	3.69	3.60	1.70
12:41	1,242	18,617	130	3.73	3.59	1.70
12:42	1,239	18,856	130	5.58	3.59	1.70
12:43	1,238	19,648	130	4.88	3.58	1.69
12:44	1,237	19,684	130	4.16	3.59	1.70
12:45	1,239	19,183	130	4.94	3.59	1.72
12:46	1,239	18,948	130	5.14	3.57	1.77
12:47	1,240	19,317	130	5.18	3.56	1.73
12:48	1,244	19,337	130	5.08	3.55	1.76
12:49	1,254	19,300	130	4.34	3.55	1.71
12:50	1,256	18,829	130	4.11	3.56	1.73
12:51	1,248	19,009	130	4.48	3.56	1.70
12:52	1,246	19,256	130	4.18	3.55	1.75
12:53	1,244	19,150	130	4.33	3.54	1.72
12:54	1,240	19,375	130	4.78	3.52	1.72
12:55	1,236	19,928	130	5.43	3.50	1.76
12:56	1,235	19,257	130	6.88	3.49	1.75
12:57	1,232	19,177	130	4.84	3.49	1.78
12:58	1,235	19,017	130	5.42	3.50	1.78
12:59	1,238	19,534	130	5.53	3.52	1.75
13:00	1,239	19,080	130	5.05	3.53	1.72
13:01	1,252	19,106	130	5.56	3.54	1.68
13:02	1,252	19,362	130	4.76	3.53	1.68
13:03	1,251	18,855	130	4.19	3.53	1.70
13:04	1,243	18,532	130	3.79	3.52	1.72
13:05	1,238	18,874	130	3.85	3.51	1.69
13:06	1,238	19,047	130	4.38	3.49	1.77
13:07	1,239	18,703	130	5.02	3.48	1.73
13:08	1,239	18,776	130	4.23	3.49	1.76
13:09	1,237	19,298	130	5.29	3.49	1.71
13:10	1,235	19,305	130	4.54	3.49	1.74
13:11	1,237	19,012	130	4.85	3.49	1.77
13:12	1,237	19,637	130	3.92	3.49	1.70
13:13	1,240	19,250	130	4.39	3.50	1.76
13:14	1,244	19,109	130	4.09	3.50	1.74
13:15	1,247	19,508	130	4.56	3.50	1.72
13:16	1,250	18,950	129	3.42	3.51	1.77
13:17	1,250	18,980	130	4.03	3.51	1.70
13:18	1,250	19,026	129	3.42	3.50	1.72
13:19	1,246	19,021	129	4.34	3.49	1.69
13:20	1,245	19,408	130	4.64	3.47	1.71
13:21	1,244	18,683	129	4.99	3.45	1.74
13:22	1,241	19,561	129	4.10	3.44	1.77
13:23	1,238	19,502	129	5.76	3.44	1.76
13:24	1,237	19,195	130	5.39	3.44	1.79
13:25	1,237	19,205	130	7.19	3.44	1.76
13:26	1,234	19,025	130	5.84	3.45	1.81
13:27	1,238	19,090	130	5.19	3.47	1.76
13:28	1,242	19,044	130	6.77	3.48	1.80
13:29	1,239	19,060	130	5.75	3.49	1.79
13:30	1,240	18,996	130	4.49	3.50	1.81
13:31	1,242	19,049	130	4.25	3.50	1.81

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
13:32	1,248	19,358	130	4.94	3.49	1.79
13:33	1,253	19,466	131	4.25	3.49	1.69
13:34	1,252	18,957	131	4.13	3.48	1.73
13:35	1,248	19,460	130	4.34	3.47	1.74
13:36	1,245	19,150	130	4.53	3.45	1.79
13:37	1,239	19,129	130	5.04	3.44	1.78
13:38	1,231	19,050	130	4.29	3.44	1.80
13:39	1,231	19,304	130	6.14	3.44	1.80
13:40	1,232	19,362	130	5.66	3.45	1.80
13:41	1,231	19,174	130	6.39	3.46	1.73
13:42	1,230	19,450	130	5.63	3.49	1.81
13:43	1,230	19,472	129	5.26	3.51	1.74
13:44	1,233	18,918	130	6.14	3.53	1.75
13:45	1,247	18,967	130	7.10	3.54	1.80
13:46	1,251	19,591	130	5.10	3.56	1.79
13:47	1,252	19,240	130	4.27	3.57	1.77
13:48	1,247	18,970	130	4.70	3.57	1.75
13:49	1,240	18,860	130	5.21	3.56	1.74
13:50	1,239	19,432	130	3.98	3.55	1.76
13:51	1,238	19,274	130	4.12	3.56	1.79
13:52	1,240	19,341	130	4.38	3.56	1.73
13:53	1,243	19,279	130	4.27	3.56	1.72
13:54	1,242	19,294	130	3.85	3.57	1.79
13:55	1,243	19,660	130	3.98	3.57	1.73
13:56	1,240	19,288	130	4.98	3.56	1.75
13:57	1,238	19,236	130	4.82	3.55	1.72
13:58	1,248	19,190	130	5.06	3.53	1.81
13:59	1,251	19,354	130	4.29	3.53	1.79
14:00	1,248	18,920	130	4.09	3.52	1.77
14:01	1,246	19,281	130	4.01	3.51	1.76
14:02	1,245	19,971	130	3.72	3.50	1.77
14:03	1,237	19,241	130	4.43	3.50	1.73
14:04	1,234	19,112	130	4.80	3.50	1.74
14:05	1,233	19,199	130	4.65	3.50	1.76
14:06	1,233	19,368	130	4.37	3.51	1.79
14:07	1,234	19,122	130	5.10	3.51	1.78
14:08	1,242	18,863	130	4.25	3.51	1.77
14:09	1,239	19,474	130	4.84	3.51	1.74
14:10	1,237	19,858	129	5.66	3.50	1.74
14:11	1,237	18,949	130	5.59	3.50	1.75
14:12	1,237	19,301	130	5.48	3.52	1.75
14:13	1,238	19,232	130	5.41	3.53	1.74
14:14	1,242	19,361	130	4.75	3.53	1.78
14:15	1,240	19,059	130	4.77	3.54	1.75
14:16	1,242	19,105	130	4.01	3.55	1.74
14:17	1,239	19,407	130	4.41	3.55	1.75
14:18	1,223	19,468	130	5.54	3.55	1.67
14:19	1,230	19,265	130	6.66	3.56	1.71
14:20	1,235	19,808	130	6.69	3.58	1.78
14:21	1,240	19,291	130	6.30	3.60	1.79
14:22	1,246	19,075	130	4.70	3.63	1.75
14:23	1,251	19,218	130	5.02	3.65	1.73
14:24	1,253	19,187	130	4.35	3.66	1.73
14:25	1,252	19,189	130	3.90	3.66	1.72
14:26	1,250	19,271	130	4.40	3.64	1.73
14:27	1,244	18,665	130	4.50	3.62	1.73
14:28	1,240	19,498	130	4.40	3.60	1.73
14:29	1,239	19,109	130	5.77	3.59	1.75
14:30	1,238	19,329	130	4.50	3.57	1.76
14:31	1,234	19,400	130	4.76	3.57	1.78
14:32	1,234	19,403	130	5.20	3.57	1.80
14:33	1,239	18,849	130	5.21	3.57	1.76
14:34	1,238	18,955	130	5.21	3.57	1.74



**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:35	1,238	19,181	130	4.21	3.58	1.77
14:36	1,237	19,237	130	4.84	3.59	1.80
14:37	1,246	19,101	130	5.48	3.59	1.74
14:38	1,251	19,269	130	4.82	3.60	1.70
14:39	1,247	19,479	130	4.32	3.61	1.74
14:40	1,246	19,165	130	4.59	3.61	1.77
14:41	1,243	19,094	130	4.10	3.59	1.73
14:42	1,244	19,186	130	4.04	3.58	1.73
14:43	1,236	19,181	130	3.99	3.56	1.75
14:44	1,234	19,277	130	5.34	3.54	1.78
14:45	1,238	18,938	130	5.68	3.53	1.77
14:46	1,231	18,690	130	4.57	3.52	1.74
14:47	1,233	19,346	130	6.98	3.52	1.72
14:48	1,232	19,748	130	4.95	3.53	1.76
14:49	1,247	19,044	130	5.19	3.56	1.80
14:50	1,250	18,920	130	5.11	3.57	1.75
14:51	1,249	19,152	130	5.33	3.57	1.73
14:52	1,245	19,126	129	5.41	3.59	1.75
14:53	1,244	19,256	129	4.61	3.58	1.75
14:54	1,240	19,534	130	5.21	3.58	1.71
14:55	1,238	19,566	130	4.31	3.59	1.75
14:56	1,240	19,423	130	4.37	3.60	1.73
14:57	1,238	18,988	129	5.35	3.60	1.73
14:58	1,238	19,167	129	4.81	3.61	1.77
14:59	1,243	19,144	130	4.06	3.60	1.75
15:00	1,238	18,721	129	4.92	3.60	1.73
15:01	1,240	19,741	130	4.28	3.60	1.77
15:02	1,244	19,086	129	4.49	3.60	1.75
15:03	1,245	19,293	130	5.25	3.60	1.71
15:04	1,253	19,274	130	4.80	3.61	1.71
15:05	1,252	19,026	130	4.47	3.61	1.76
15:06	1,250	19,513	129	4.55	3.61	1.75
15:07	1,245	19,532	130	3.61	3.61	1.74
15:08	1,244	19,637	130	4.40	3.60	1.73
15:09	1,240	19,105	130	4.96	3.58	1.70
15:10	1,239	19,622	130	5.66	3.58	1.74
15:11	1,241	18,707	130	6.43	3.58	1.72
15:12	1,242	19,132	130	5.18	3.57	1.74
15:13	1,244	19,151	131	4.40	3.57	1.78
15:14	1,244	19,167	130	4.44	3.56	1.78
15:15	1,244	19,315	131	5.53	3.56	1.76
15:16	1,240	18,444	131	4.97	3.56	1.75
15:17	1,250	19,274	131	5.36	3.57	1.76
15:18	1,254	19,157	131	4.75	3.58	1.78
15:19	1,258	19,547	131	4.09	3.59	1.81
15:20	1,257	19,357	131	5.01	3.58	1.77
15:21	1,254	19,315	131	4.92	3.56	1.76
15:22	1,245	19,554	130	4.60	3.54	1.78
15:23	1,246	19,649	130	4.39	3.51	1.79
15:24	1,245	19,242	130	3.91	3.50	1.79
15:25	1,242	19,078	130	4.21	3.49	1.79
15:26	1,241	19,041	130	4.23	3.49	1.82
15:27	1,241	19,064	130	5.58	3.49	1.77
15:28	1,242	18,976	130	4.68	3.51	1.77
15:29	1,240	18,935	130	4.91	3.51	1.78
15:30	1,239	19,396	130	6.59	3.52	1.73
15:31	1,242	19,290	130	5.77	3.53	1.78
15:32	1,247	19,392	130	5.16	3.53	1.78
15:33	1,253	19,332	130	4.47	3.53	1.74
15:34	1,251	19,128	130	4.37	3.53	1.75
15:35	1,249	19,386	130	4.62	3.52	1.74
15:36	1,251	19,407	130	4.29	3.51	1.74
15:37	1,247	19,319	130	4.71	3.50	1.72

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 6**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/17/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
15:38	1,245	19,366	130	4.49	3.48	1.75
15:39	1,241	19,174	130	4.29	3.47	1.75
15:40	1,239	19,215	130	4.37	3.47	1.73
15:41	1,239	19,008	130	4.92	3.47	1.78
15:42	1,239	19,497	130	6.01	3.48	1.74
15:43	1,236	19,661	130	5.59	3.48	1.76
Average	1,242	19,222	130	4.87	3.51	1.75
Minimum	1,223	18,444	129	3.42	3.20	1.67
Maximum	1,258	19,971	131	7.19	3.66	1.83

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	7
Date:	05/20/2024
Start Time:	10:55
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	15:01

Parameter	Units	Acrylic Acid Water	AA-E2 Residue
Heating value	Btu/lb	1,300	11,100

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/20/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
10:55	880	885	880	882	85.1	13.0	976
10:56	878	884	878	880	84.6	13.0	956
10:57	876	882	877	878	84.5	13.0	956
10:58	877	882	877	879	85.8	13.1	954
10:59	880	883	878	880	85.0	13.1	945
11:00	881	885	880	882	85.7	12.8	962
11:01	882	886	881	883	84.0	12.8	966
11:02	882	886	881	883	86.6	13.0	958
11:03	882	886	880	883	83.5	13.0	951
11:04	881	886	881	883	85.4	13.4	959
11:05	881	885	880	882	84.9	13.2	953
11:06	881	885	880	882	84.7	13.0	947
11:07	881	885	880	882	83.7	13.1	938
11:08	879	884	879	881	84.3	12.9	934
11:09	879	884	879	880	87.1	12.8	932
11:10	878	883	878	880	85.0	13.1	939
11:11	879	883	879	880	85.6	13.0	957
11:12	879	884	879	881	83.5	13.0	957
11:13	879	884	879	881	83.2	12.8	961
11:14	879	884	879	881	84.3	13.2	959
11:15	879	884	879	881	83.9	13.1	977
11:16	881	885	881	882	82.6	12.9	980
11:17	881	885	880	882	82.9	12.9	978
11:18	881	885	880	882	85.4	13.0	984
11:19	881	885	880	882	84.1	13.0	986
11:20	881	886	880	882	84.0	13.0	983
11:21	881	886	880	882	85.5	13.1	995
11:22	880	885	879	881	83.3	13.0	987
11:23	878	884	878	880	83.6	13.0	993
11:24	876	882	878	879	83.5	13.0	1,001
11:25	877	882	877	879	83.8	13.0	1,000
11:26	879	883	878	880	84.5	12.9	1,006
11:27	881	884	880	882	84.0	12.9	1,005
11:28	882	886	880	882	83.9	13.0	1,023
11:29	882	886	880	883	85.9	12.8	1,014
11:30	882	886	880	882	86.7	12.8	993
11:31	882	886	880	882	86.6	12.8	1,005
11:32	881	886	880	883	87.0	13.0	1,000
11:33	880	885	880	882	84.8	12.9	1,009
11:34	879	885	880	881	86.3	13.3	989
11:35	879	884	878	880	83.8	12.8	998
11:36	878	883	878	880	85.4	12.9	1,001
11:37	878	883	877	879	87.6	13.0	996
11:38	878	883	877	879	84.6	13.0	994
11:39	880	883	879	881	86.9	12.9	1,007
11:40	880	884	880	881	84.0	13.0	1,000
11:41	879	884	879	881	85.4	13.1	1,000
11:42	878	883	877	880	85.1	13.3	985
11:43	879	883	879	880	85.2	13.0	994
11:44	881	885	880	882	86.9	13.0	995
11:45	882	885	880	882	85.5	13.2	996

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/20/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
11:46	882	885	880	883	84.3	12.8	995
11:47	882	886	881	883	84.5	12.8	998
11:48	881	885	879	882	86.4	12.9	986
11:49	880	885	879	881	85.5	13.0	993
11:50	880	885	879	881	85.1	12.9	997
11:51	881	885	879	882	86.2	12.8	1,011
11:52	881	885	880	882	84.1	13.0	1,011
11:53	880	885	879	881	86.6	13.2	1,012
11:54	877	883	877	879	86.2	13.2	1,007
11:55	874	881	876	877	82.8	12.9	1,005
11:56	875	880	876	877	82.6	13.0	1,009
11:57	878	881	877	879	83.5	12.7	1,002
11:58	880	883	879	880	87.1	13.0	999
11:59	882	885	880	882	84.0	12.9	1,010
12:00	884	886	881	884	85.9	13.1	1,005
12:01	884	887	881	884	86.2	13.0	995
12:02	883	887	881	884	85.2	13.0	1,008
12:03	882	887	880	883	84.4	13.2	1,014
12:04	880	885	879	881	84.1	12.9	989
12:05	879	884	879	881	86.1	13.0	989
12:06	879	884	878	880	83.1	12.9	998
12:07	879	884	878	880	85.3	12.9	1,004
12:08	880	884	879	881	85.9	13.0	1,011
12:09	880	884	879	881	86.1	12.9	1,002
12:10	879	883	878	880	82.0	13.0	998
12:11	878	883	877	879	82.3	13.0	986
12:12	877	882	876	878	83.9	13.0	989
12:13	878	882	877	879	83.3	12.9	1,005
12:14	880	883	878	880	82.3	12.8	1,003
12:15	881	884	879	881	83.7	12.9	995
12:16	882	885	880	882	83.9	13.0	998
12:17	883	886	881	883	85.4	12.9	999
12:18	882	886	880	883	84.2	12.8	1,007
12:19	882	886	880	882	85.1	12.8	1,020
12:20	880	885	878	881	84.0	13.0	1,012
12:21	879	884	878	881	82.5	13.0	1,012
12:22	878	883	877	880	83.4	13.1	999
12:23	878	882	877	879	82.2	13.1	999
12:24	879	883	878	880	84.9	12.9	996
12:25	880	884	879	881	84.7	13.0	1,002
12:26	880	884	879	881	84.1	13.1	1,005
12:27	880	884	878	881	85.3	13.0	997
12:28	882	885	880	882	85.7	12.8	1,004
12:29	883	886	880	883	84.6	13.1	996
12:30	882	886	880	883	86.1	12.9	997
12:31	881	885	879	882	85.8	13.0	997
12:32	880	885	879	881	85.4	13.2	1,004
12:33	879	884	878	880	87.9	13.3	996
12:34	879	883	878	880	83.2	13.0	996
12:35	879	883	878	880	84.7	13.0	981
12:36	879	884	879	881	83.2	12.7	998
12:37	880	884	879	881	83.8	13.0	991
12:38	879	884	878	880	84.8	13.2	994
12:39	880	884	879	881	83.2	13.0	982
12:40	880	884	879	881	85.7	13.1	987
12:41	879	884	879	881	83.6	13.2	1,002
12:42	880	884	879	881	82.4	13.0	1,087
12:43	881	885	879	882	83.1	12.9	1,032
12:44	880	884	878	881	83.6	12.9	1,007
12:45	880	884	878	881	81.9	13.1	992
12:46	880	884	878	881	87.0	13.1	993
12:47	879	884	878	880	86.0	13.1	978
12:48	878	884	878	880	82.5	13.2	986

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/20/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
12:49	878	883	878	880	84.9	12.9	980
12:50	879	883	878	880	85.0	13.0	977
12:51	880	884	878	881	87.1	13.0	979
12:52	881	884	879	881	84.5	12.9	983
12:53	881	885	879	882	87.1	13.0	999
12:54	881	885	879	881	83.3	12.9	993
12:55	880	884	878	881	85.4	13.2	980
12:56	881	885	879	881	84.5	13.2	1,005
12:57	882	885	879	882	84.3	13.0	986
12:58	881	885	879	882	87.8	13.0	983
12:59	882	885	879	882	85.3	13.0	987
13:00	880	885	879	881	82.2	13.0	993
13:01	879	884	879	881	81.4	13.0	997
13:02	878	884	878	880	85.2	13.0	1,007
13:03	878	883	877	879	86.6	12.8	994
13:04	877	882	877	879	83.0	13.2	993
13:05	879	883	877	880	86.1	13.3	993
13:06	882	884	879	882	85.8	12.9	1,000
13:07	881	885	879	882	85.6	13.1	1,006
13:08	880	885	880	882	85.3	12.9	1,005
13:09	880	885	880	881	85.4	13.2	1,001
13:10	879	884	879	881	82.9	13.0	991
13:11	879	884	878	880	86.2	12.9	999
13:12	879	883	878	880	85.2	12.9	1,004
13:13	881	885	879	882	84.4	13.0	1,011
13:14	881	885	880	882	85.3	13.1	1,001
13:15	880	884	879	881	85.3	13.4	1,006
13:16	879	884	879	881	83.4	13.2	997
13:17	879	884	878	880	84.7	13.1	1,004
13:18	878	883	878	880	84.0	13.0	1,000
13:19	879	883	878	880	85.6	13.0	995
13:20	880	884	878	881	85.3	13.0	991
13:21	879	883	877	880	85.7	13.4	987
13:22	880	884	878	881	83.0	12.8	988
13:23	881	885	880	882	83.7	12.8	992
13:24	882	886	880	883	83.6	13.1	992
13:25	882	886	880	883	85.4	13.0	989
13:26	882	886	880	883	85.5	13.0	1,015
13:27	882	886	880	882	83.0	13.1	1,010
13:28	879	885	879	881	84.3	13.0	1,026
13:29	877	883	877	879	84.3	13.0	1,014
13:30	877	882	876	878	83.3	13.1	1,005
13:31	878	882	876	879	85.1	13.3	1,015
13:32	879	883	877	880	84.8	13.4	1,013
13:33	880	883	878	880	84.7	13.1	1,009
13:34	881	884	879	881	83.9	13.0	999
13:35	882	885	880	882	85.6	13.1	1,003
13:36	883	886	880	883	82.3	13.1	1,002
13:37	881	885	879	882	84.9	13.1	1,007
13:38	881	885	878	881	84.3	12.9	1,020
13:39	880	884	878	881	85.6	12.8	1,006
13:40	880	884	879	881	83.9	13.1	1,018
13:41	880	884	878	881	85.1	13.1	1,019
13:42	879	884	877	880	82.5	12.7	1,016
13:43	879	883	877	880	83.9	13.1	1,014
13:44	878	882	877	879	87.0	12.8	1,016
13:45	879	883	878	880	83.6	12.8	1,025
13:46	880	884	879	881	83.5	12.8	1,042
13:47	880	884	878	881	83.8	12.8	1,032
13:48	879	883	878	880	84.3	13.4	1,038
13:49	879	883	878	880	85.5	13.1	1,011
13:50	880	884	879	881	86.0	13.2	1,017
13:51	881	885	879	881	86.7	12.9	1,018

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/20/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
13:52	881	885	879	882	85.8	13.1	1,021
13:53	881	885	880	882	88.3	13.0	1,025
13:54	881	885	879	882	87.9	13.0	1,018
13:55	881	885	879	882	84.4	13.1	1,007
13:56	881	885	880	882	83.9	13.1	1,010
13:57	881	885	880	882	84.3	13.0	1,014
13:58	881	885	879	882	86.4	13.1	1,017
13:59	879	884	878	881	86.4	13.1	1,014
14:00	880	884	878	881	85.7	13.0	1,008
14:01	880	884	879	881	84.4	13.0	1,019
14:02	880	884	878	881	85.6	13.1	1,035
14:03	879	883	878	880	85.1	13.0	1,026
14:04	877	882	877	879	83.5	13.1	1,023
14:05	877	882	876	878	86.9	13.2	1,006
14:06	877	881	876	878	85.6	13.2	1,014
14:07	880	883	878	880	83.9	13.3	1,011
14:08	882	884	880	882	82.3	13.2	1,015
14:09	883	886	880	883	84.0	13.0	1,018
14:10	883	886	880	883	85.3	12.7	1,011
14:11	882	886	880	883	85.5	12.7	1,014
14:12	882	886	879	882	84.1	12.8	1,016
14:13	882	886	880	882	85.1	12.8	1,016
14:14	880	885	879	881	83.5	13.1	1,009
14:15	879	884	879	881	86.8	13.1	1,016
14:16	879	884	878	880	87.4	12.8	1,043
14:17	879	884	878	880	86.6	13.1	1,023
14:18	879	883	878	880	84.7	12.9	1,030
14:19	878	883	877	880	83.3	12.8	1,020
14:20	877	883	877	879	84.9	13.0	1,015
14:21	880	884	879	881	86.1	12.8	1,028
14:22	882	885	880	883	86.0	12.7	1,026
14:23	882	885	880	882	86.1	12.9	1,021
14:24	881	885	880	882	84.9	13.0	1,031
14:25	880	885	879	881	86.5	12.8	1,037
14:26	879	884	878	881	85.1	13.1	1,029
14:27	879	884	878	880	84.9	12.9	1,026
14:28	880	884	879	881	86.2	13.0	1,049
14:29	880	885	879	881	84.1	13.0	1,038
14:30	880	884	879	881	86.0	13.0	1,029
14:31	879	884	878	881	84.8	12.9	1,031
14:32	879	884	878	880	82.4	12.8	1,012
14:33	881	884	879	881	85.5	13.2	1,016
14:34	880	884	879	881	83.8	12.8	1,019
14:35	880	884	879	881	84.3	13.1	1,015
14:36	881	885	880	882	83.4	13.2	1,023
14:37	881	885	879	882	83.9	12.9	1,018
14:38	880	884	879	881	86.4	12.8	1,010
14:39	880	884	879	881	84.0	12.7	1,018
14:40	880	884	879	881	83.5	12.7	1,006
14:41	880	884	879	881	85.4	12.9	1,005
14:42	880	884	879	881	84.5	13.1	1,028
14:43	879	884	879	881	85.5	13.2	1,033
14:44	880	884	879	881	85.3	13.0	1,041
14:45	878	884	878	880	86.3	13.2	993
14:46	878	883	878	880	84.7	13.1	1,001
14:47	878	883	877	880	84.8	12.9	952
14:48	879	883	878	880	85.1	12.9	940
14:49	879	883	878	880	84.9	13.0	931
14:50	881	884	879	881	86.5	13.1	929
14:51	882	885	880	883	85.1	13.1	927
14:52	883	886	881	883	86.1	12.9	919
14:53	883	886	881	883	83.1	13.0	921
14:54	883	887	881	883	84.5	12.9	919

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Date/Time	T-7051	T-7052	T-7053	CALC	F-7073	F-1105	F-7062
5/20/2024	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature	Combustion Chamber Temperature Average	Stack Gas Flow Rate	Acrylic Acid Water Feed Rate	AA-E2 Residue Feed Rate
Units	°C	°C	°C	°C	kacfm	klb/hr	lb/hr
14:55	882	887	881	883	84.1	12.9	925
14:56	882	887	880	883	84.9	13.0	931
14:57	881	886	880	882	86.8	13.3	918
14:58	880	885	879	881	86.3	13.2	930
14:59	879	884	878	881	84.3	13.0	918
15:00	880	884	879	881	82.9	13.0	931
15:01	879	884	879	881	84.0	13.1	941
Average	880	884	879	881	84.8	13.0	997
Minimum	874	880	876	877	81.4	12.7	918
Maximum	884	887	881	884	88.3	13.4	1,087

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Unit	Incinerator IN-701
Condition:	ICR Test
Run:	7
Date:	05/20/2024
Start Time:	10:55
Suspend:	---
Restart:	---
Suspend:	---
Restart:	---
End Time:	15:01

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/20/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
10:55	1,265	19,616	129	3.89	3.06	1.75
10:56	1,260	19,199	129	7.28	3.06	1.81
10:57	1,266	19,776	129	6.36	3.07	1.82
10:58	1,280	19,351	129	5.98	3.09	1.82
10:59	1,286	18,683	129	4.84	3.12	1.79
11:00	1,287	19,081	129	3.93	3.15	1.78
11:01	1,286	19,249	129	4.50	3.16	1.75
11:02	1,287	19,443	129	3.61	3.16	1.79
11:03	1,285	19,252	130	3.87	3.16	1.75
11:04	1,285	19,372	129	4.87	3.16	1.74
11:05	1,279	19,289	129	3.82	3.16	1.73
11:06	1,279	19,569	129	4.26	3.16	1.75
11:07	1,279	19,231	129	4.10	3.16	1.76
11:08	1,281	19,571	129	6.41	3.15	1.76
11:09	1,279	19,177	129	4.37	3.15	1.78
11:10	1,281	18,911	129	3.90	3.16	1.73
11:11	1,278	18,699	129	4.24	3.17	1.72
11:12	1,279	19,024	129	4.48	3.18	1.73
11:13	1,277	18,481	129	3.91	3.18	1.74
11:14	1,277	19,190	129	4.86	3.19	1.74
11:15	1,282	19,215	129	4.75	3.20	1.76
11:16	1,285	19,473	129	3.69	3.22	1.73
11:17	1,281	19,248	129	3.93	3.22	1.73
11:18	1,282	19,596	129	5.05	3.22	1.65
11:19	1,280	19,024	129	3.70	3.21	1.67
11:20	1,274	19,194	129	3.47	3.20	1.69
11:21	1,274	19,582	129	4.38	3.19	1.70
11:22	1,271	18,833	129	5.03	3.19	1.73
11:23	1,259	18,677	129	4.26	3.19	1.76
11:24	1,255	19,374	129	6.47	3.19	1.74
11:25	1,268	19,394	129	6.03	3.21	1.76
11:26	1,276	18,710	129	3.73	3.23	1.78
11:27	1,283	19,726	129	4.63	3.26	1.75
11:28	1,280	19,869	129	2.87	3.27	1.70
11:29	1,276	19,112	129	3.03	3.29	1.70
11:30	1,278	19,694	129	4.48	3.29	1.78
11:31	1,276	19,494	129	4.13	3.28	1.78
11:32	1,272	19,926	129	4.80	3.29	1.74
11:33	1,266	19,554	129	4.77	3.29	1.74
11:34	1,268	19,462	129	4.26	3.30	1.72
11:35	1,267	18,981	129	4.44	3.31	1.76
11:36	1,270	19,063	129	5.64	3.31	1.72
11:37	1,271	19,568	129	5.08	3.31	1.79
11:38	1,275	19,419	129	5.20	3.30	1.77
11:39	1,279	19,061	129	5.58	3.30	1.76
11:40	1,271	18,916	129	4.36	3.29	1.71
11:41	1,272	19,349	129	4.45	3.28	1.74
11:42	1,281	19,185	129	5.37	3.28	1.77
11:43	1,285	19,133	129	4.90	3.29	1.75
11:44	1,286	19,129	129	4.28	3.29	1.74
11:45	1,284	19,510	129	3.94	3.30	1.68



**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/20/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
11:46	1,280	19,694	129	4.26	3.30	1.72
11:47	1,277	19,025	129	4.02	3.29	1.74
11:48	1,277	18,849	129	4.88	3.28	1.75
11:49	1,278	18,998	129	5.21	3.27	1.70
11:50	1,275	19,056	129	4.78	3.27	1.73
11:51	1,278	18,995	129	5.57	3.27	1.70
11:52	1,277	18,771	129	5.28	3.28	1.67
11:53	1,271	19,478	129	4.61	3.29	1.74
11:54	1,262	19,870	129	5.49	3.30	1.72
11:55	1,267	19,083	129	5.06	3.30	1.82
11:56	1,277	18,700	129	5.34	3.32	1.81
11:57	1,282	18,859	129	3.88	3.34	1.76
11:58	1,289	18,747	129	4.07	3.34	1.77
11:59	1,294	18,938	129	4.38	3.32	1.74
12:00	1,290	19,542	129	3.41	3.29	1.72
12:01	1,285	18,897	129	4.11	3.29	1.73
12:02	1,278	18,724	129	4.97	3.29	1.74
12:03	1,275	19,323	129	5.51	3.29	1.71
12:04	1,270	19,297	129	5.65	3.29	1.73
12:05	1,274	19,534	129	5.68	3.31	1.75
12:06	1,275	18,930	129	4.36	3.32	1.76
12:07	1,276	18,695	129	4.89	3.34	1.74
12:08	1,276	19,333	129	5.78	3.35	1.72
12:09	1,272	18,972	129	5.77	3.36	1.72
12:10	1,273	19,874	129	5.37	3.36	1.75
12:11	1,276	19,131	129	5.90	3.36	1.75
12:12	1,277	19,091	129	5.65	3.38	1.74
12:13	1,277	19,419	129	5.02	3.40	1.75
12:14	1,283	19,470	129	5.47	3.41	1.71
12:15	1,287	19,588	129	4.95	3.41	1.70
12:16	1,286	19,350	129	4.83	3.41	1.72
12:17	1,287	19,433	129	3.42	3.42	1.69
12:18	1,287	19,151	129	4.35	3.43	1.75
12:19	1,275	19,654	129	4.86	3.43	1.73
12:20	1,274	19,429	129	5.37	3.43	1.75
12:21	1,270	19,453	129	4.25	3.44	1.70
12:22	1,274	19,245	129	4.93	3.46	1.69
12:23	1,277	18,999	129	5.46	3.46	1.74
12:24	1,280	19,354	129	5.25	3.47	1.76
12:25	1,279	19,728	129	4.62	3.47	1.77
12:26	1,274	19,165	129	4.34	3.48	1.70
12:27	1,284	19,065	129	5.06	3.46	1.75
12:28	1,287	19,048	129	4.62	3.45	1.72
12:29	1,282	19,036	129	3.58	3.46	1.71
12:30	1,283	19,024	129	4.44	3.46	1.77
12:31	1,279	19,108	129	5.01	3.47	1.72
12:32	1,276	19,452	129	4.31	3.48	1.72
12:33	1,276	19,144	129	5.90	3.49	1.68
12:34	1,277	19,252	129	5.89	3.50	1.71
12:35	1,274	19,785	129	5.92	3.50	1.75
12:36	1,276	19,888	129	7.22	3.52	1.75
12:37	1,277	19,354	129	4.15	3.53	1.75
12:38	1,279	19,117	129	5.23	3.55	1.73
12:39	1,280	19,248	129	5.31	3.55	1.70
12:40	1,286	19,351	129	5.67	3.55	1.76
12:41	1,281	19,291	129	4.69	3.55	1.72
12:42	1,275	19,362	129	4.92	3.57	1.69
12:43	1,276	19,446	130	5.42	3.57	1.72
12:44	1,279	19,098	129	7.37	3.58	1.73
12:45	1,284	19,590	130	5.62	3.59	1.76
12:46	1,283	19,325	129	4.75	3.61	1.77
12:47	1,279	19,143	129	5.02	3.63	1.79
12:48	1,279	18,828	129	4.46	3.64	1.75

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/20/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
12:49	1,278	19,009	129	4.36	3.65	1.76
12:50	1,280	18,838	129	6.24	3.66	1.77
12:51	1,292	19,213	129	6.56	3.66	1.77
12:52	1,294	18,773	129	4.79	3.68	1.81
12:53	1,293	19,290	129	4.39	3.70	1.74
12:54	1,290	18,428	129	6.09	3.70	1.79
12:55	1,291	19,134	129	5.24	3.71	1.76
12:56	1,294	18,873	129	5.13	3.71	1.72
12:57	1,287	18,759	129	4.88	3.70	1.73
12:58	1,290	18,930	129	4.54	3.69	1.76
12:59	1,285	19,398	129	5.67	3.69	1.75
13:00	1,276	19,261	129	5.24	3.71	1.71
13:01	1,272	18,699	129	6.21	3.72	1.74
13:02	1,270	19,498	128	5.54	3.74	1.72
13:03	1,271	19,036	128	6.53	3.76	1.76
13:04	1,280	18,704	128	5.52	3.77	1.76
13:05	1,286	19,537	128	4.48	3.78	1.80
13:06	1,291	19,401	128	4.26	3.79	1.77
13:07	1,285	18,983	128	4.99	3.78	1.72
13:08	1,284	18,955	128	4.30	3.78	1.72
13:09	1,284	18,861	129	5.03	3.77	1.75
13:10	1,281	19,194	129	5.07	3.76	1.73
13:11	1,283	19,023	129	6.36	3.76	1.71
13:12	1,287	19,277	128	5.39	3.76	1.73
13:13	1,287	19,488	129	4.85	3.75	1.73
13:14	1,285	18,864	129	5.02	3.75	1.74
13:15	1,285	19,518	129	5.81	3.75	1.73
13:16	1,285	19,320	129	5.13	3.75	1.72
13:17	1,284	19,102	129	4.73	3.75	1.78
13:18	1,283	18,570	130	5.33	3.76	1.76
13:19	1,285	19,538	130	5.66	3.78	1.73
13:20	1,287	19,352	130	5.45	3.79	1.74
13:21	1,294	19,329	130	5.94	3.79	1.77
13:22	1,299	18,793	130	4.58	3.80	1.77
13:23	1,295	19,169	130	4.79	3.81	1.72
13:24	1,291	19,225	130	5.74	3.82	1.70
13:25	1,291	19,502	130	4.80	3.82	1.72
13:26	1,283	18,790	129	5.61	3.80	1.78
13:27	1,282	19,329	129	4.33	3.80	1.78
13:28	1,261	19,115	129	5.51	3.81	1.79
13:29	1,264	19,054	129	6.61	3.81	1.80
13:30	1,275	19,046	129	6.14	3.83	1.83
13:31	1,282	19,386	129	7.91	3.87	1.78
13:32	1,282	19,325	129	6.43	3.90	1.74
13:33	1,282	18,811	129	5.72	3.92	1.73
13:34	1,287	19,499	128	4.24	3.93	1.74
13:35	1,291	19,612	129	5.16	3.93	1.71
13:36	1,290	19,376	129	5.83	3.92	1.69
13:37	1,283	19,197	129	4.90	3.91	1.72
13:38	1,283	19,200	129	5.20	3.89	1.72
13:39	1,283	19,285	129	5.98	3.89	1.79
13:40	1,278	19,046	129	4.78	3.89	1.76
13:41	1,274	18,894	129	4.62	3.89	1.75
13:42	1,275	19,243	129	4.96	3.88	1.79
13:43	1,274	19,599	129	5.81	3.88	1.75
13:44	1,279	18,993	129	6.07	3.89	1.74
13:45	1,274	18,705	129	5.18	3.90	1.77
13:46	1,278	18,730	129	5.02	3.89	1.77
13:47	1,277	19,243	129	4.97	3.89	1.74
13:48	1,276	18,973	129	5.93	3.89	1.71
13:49	1,281	19,510	129	5.23	3.89	1.73
13:50	1,286	19,340	129	6.85	3.89	1.78
13:51	1,285	19,486	129	5.61	3.89	1.73

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/20/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
13:52	1,286	19,336	129	5.32	3.89	1.75
13:53	1,288	19,625	129	6.05	3.87	1.71
13:54	1,282	19,341	129	4.57	3.87	1.73
13:55	1,280	19,075	129	4.81	3.88	1.77
13:56	1,285	18,919	129	5.71	3.87	1.74
13:57	1,279	19,328	129	5.98	3.86	1.73
13:58	1,279	19,185	129	6.34	3.87	1.77
13:59	1,279	18,994	129	6.24	3.86	1.78
14:00	1,281	19,061	128	5.55	3.86	1.78
14:01	1,279	19,318	129	5.01	3.87	1.78
14:02	1,275	19,039	129	4.36	3.87	1.74
14:03	1,268	19,247	129	4.82	3.86	1.75
14:04	1,269	19,177	129	6.74	3.85	1.76
14:05	1,270	18,993	129	6.63	3.83	1.74
14:06	1,282	19,348	129	6.90	3.84	1.72
14:07	1,286	19,550	129	4.95	3.86	1.73
14:08	1,289	18,906	129	4.61	3.87	1.72
14:09	1,291	19,119	129	5.17	3.87	1.71
14:10	1,290	18,731	129	5.04	3.89	1.74
14:11	1,285	18,391	129	4.36	3.89	1.81
14:12	1,280	18,871	129	4.06	3.89	1.80
14:13	1,273	19,365	129	4.68	3.87	1.79
14:14	1,271	19,406	129	5.00	3.87	1.76
14:15	1,274	19,201	129	5.63	3.87	1.73
14:16	1,267	19,070	129	5.45	3.87	1.73
14:17	1,266	19,707	129	5.59	3.87	1.72
14:18	1,270	19,736	129	6.21	3.88	1.75
14:19	1,267	19,501	129	6.61	3.88	1.72
14:20	1,279	19,634	129	5.51	3.90	1.75
14:21	1,285	19,427	129	5.63	3.91	1.73
14:22	1,283	19,420	129	4.38	3.92	1.73
14:23	1,280	19,597	129	4.89	3.93	1.74
14:24	1,277	19,558	129	5.38	3.93	1.78
14:25	1,273	19,050	129	5.25	3.92	1.76
14:26	1,276	19,082	129	5.79	3.93	1.76
14:27	1,279	19,178	129	5.52	3.94	1.74
14:28	1,277	19,451	129	4.46	3.95	1.70
14:29	1,275	19,472	129	4.94	3.95	1.71
14:30	1,276	19,105	129	5.11	3.93	1.70
14:31	1,274	19,031	129	6.59	3.91	1.74
14:32	1,277	18,540	129	6.05	3.88	1.73
14:33	1,278	18,807	128	5.42	3.87	1.70
14:34	1,279	19,130	128	5.15	3.87	1.72
14:35	1,280	19,379	128	5.33	3.87	1.68
14:36	1,276	18,937	128	3.92	3.87	1.75
14:37	1,277	19,782	128	5.00	3.87	1.75
14:38	1,279	19,621	128	4.87	3.87	1.70
14:39	1,279	19,192	128	3.91	3.87	1.75
14:40	1,284	19,281	129	4.58	3.87	1.77
14:41	1,280	19,150	129	4.68	3.85	1.71
14:42	1,278	19,156	129	5.09	3.84	1.74
14:43	1,276	19,404	129	4.85	3.83	1.72
14:44	1,270	19,042	129	4.85	3.83	1.68
14:45	1,274	19,462	129	7.15	3.82	1.74
14:46	1,278	18,943	129	6.85	3.81	1.73
14:47	1,289	19,242	129	6.21	3.82	1.79
14:48	1,293	19,405	129	6.63	3.84	1.75
14:49	1,299	19,238	129	5.75	3.85	1.74
14:50	1,307	19,106	129	4.76	3.87	1.70
14:51	1,308	19,320	129	5.13	3.89	1.66
14:52	1,307	18,906	129	4.79	3.88	1.73
14:53	1,304	18,816	129	4.86	3.87	1.77
14:54	1,298	19,150	129	4.81	3.87	1.72

**BASF Corporation - Freeport, Texas**  
**Incinerator IN-701**  
**Run 7**

Date/Time	F-7050	F-1026	P-7055	A-7014	A-7014	A-7016
5/20/2024	Fuel Gas Feed Rate	Off Gas Feed Rate	Acrylic Acid Water Atomizing Fluid Pressure	Corrected Stack Gas CO OMA	Corrected Stack Gas CO HRA	Stack Gas Oxygen
Units	scfm	scfm	psig	ppmv dry	ppmv dry	% vol dry
14:55	1,291	19,032	129	5.67	3.87	1.67
14:56	1,282	19,146	129	5.97	3.86	1.74
14:57	1,283	18,732	129	5.26	3.87	1.74
14:58	1,282	19,284	129	6.60	3.88	1.69
14:59	1,285	19,442	129	5.30	3.89	1.72
15:00	1,288	19,113	129	5.48	3.89	1.73
15:01	1,279	19,168	129	7.76	3.89	1.73
Average	1,280	19,209	129	5.13	3.60	1.74
Minimum	1,255	18,391	128	2.87	3.06	1.65
Maximum	1,308	19,926	130	7.91	3.95	1.83

## Appendix C: LIQUID WASTE SAMPLING REPORT

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## LIQUID WASTE SAMPLING REPORT

During each test run, each liquid waste was sampled and analyzed for higher heating value. BASF Corporation (BASF) personnel collected the liquid waste samples using a tap sampling procedure. The sampling taps were located in the waste feed lines. The sample taps were clearly identified and were inspected by the Emission Test Manager prior to testing.

Samples were collected at the beginning, middle, and end of each test run. At each sampling event, approximately 150 milliliters (mL) of each waste stream was collected into two separate bottles. At the conclusion of the run, each sample bottle had approximately 450 mL of sample.

The field duplicates were collected during Run 5.

All samples were properly logged on the waste sampling forms. These forms indicate sampler's initials, the run number, the date, and the time the sample was collected. The completed forms are included in this liquid waste sampling report.

**BASF Corporation – Freeport, Texas**  
**Waste Sampling Log**

**Unit:** Incinerator IN-701

**Test:** HWC NESHAP Information Collection Request Emission Test

**Waste:** Acrylic Acid Water

Run	Date	Grab Sample	Time of Sample	Initials
1	5/15	Beginning	09:13	C. Strother
		Middle	11:30	C. Strother
		End	13:21	C. Strother
2	5/15	Beginning	14:02	C. Strother
		Middle	16:10	C. Strother
		End	18:07	C. Strother
3	5/16	Beginning	07:06	C. Strother
		Middle	09:15	C. Strother
		End	11:10	C. Strother
4	5/16	Beginning	11:40	C. Strother
		Middle	13:30	C. Strother
		End	15:45	C. Strother
5	5/17	Beginning	07:00	C. Strother
		Middle	09:04	C. Strother
		End	11:25	C. Strother

**BASF Corporation – Freeport, Texas**  
**Waste Sampling Log**

**Unit:** Incinerator IN-701

**Test:** HWC NESHAP Information Collection Request Emission Test

**Waste:** Acrylic Acid Water

Run	Date	Grab Sample	Time of Sample	Initials
6	5/17	Beginning	11:38	S. Tuneberg
		Middle	13:45	S. Tuneberg
		End	15:43	S. Tuneberg
7	5/20	Beginning	10:55	S. Tuneberg
		Middle	13:12	S. Tuneberg
		End	15:01	S. Tuneberg
		Beginning		
		Middle		
		End		
		Beginning		
		Middle		
		End		
		Beginning		
		Middle		
		End		



**BASF Corporation – Freeport, Texas**  
**Waste Sampling Log**

**Unit:** Incinerator IN-701

**Test:** HWC NESHAP Information Collection Request Emission Test

**Waste:** AA-E2 Residue

Run	Date	Grab Sample	Time of Sample	Initials
1	5/15	Beginning	09:15	C. Strother
		Middle	11:31	C. Strother
		End	13:22	C. Strother
2	5/15	Beginning	14:05	C. Strother
		Middle	16:14	C. Strother
		End	18:10	C. Strother
3	5/16	Beginning	07:08	C. Strother
		Middle	09:18	C. Strother
		End	11:11	C. Strother
4	5/16	Beginning	11:43	C. Strother
		Middle	13:32	C. Strother
		End	15:49	C. Strother
5	5/17	Beginning	07:04	C. Strother
		Middle	09:10	C. Strother
		End	11:27	C. Strother

**BASF Corporation – Freeport, Texas**  
**Waste Sampling Log**

**Unit:** Incinerator IN-701

**Test:** HWC NESHAP Information Collection Request Emission Test

**Waste:** AA-E2 Residue

Run	Date	Grab Sample	Time of Sample	Initials
6	5/17	Beginning	11:40	S. Tuneberg
		Middle	13:46	S. Tuneberg
		End	15:45	S. Tuneberg
7	5/20	Beginning	10:58	S. Tuneberg
		Middle	13:15	S. Tuneberg
		End	15:02	S. Tuneberg
		Beginning		
		Middle		
		End		
		Beginning		
		Middle		
		End		
		Beginning		
		Middle		
		End		

## Appendix D: STACK SAMPLING REPORT



## Source Test Report

BASF Corporation  
602 Copper Rd  
Freeport, TX 77541

Source Tested: Incinerator IN-701  
(EPN 4-1-1)

Test Dates: May 15-17 & 20, 2024

EPA FRS No.: 110000463392

Project No. AST-2024-2250

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Prepared By  
Alliance Technical Group, LLC  
5757 Genoa Red Bluff Road  
Pasadena, TX 77507

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**Regulatory Information**

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*Regulatory Citation*

Clean Air Act (CAA) Section 114 – Information Collection Request (ICR)

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**Source Information**

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*Source Name*  
Incinerator IN-701

*Source ID*  
EPN 4-1-1

*Target Parameters*  
PAH/PCB, THC, HCN

---

**Contact Information**

---

*Test Location*  
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Freeport, TX 77541

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Pasadena, TX 77507

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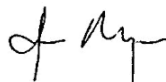
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Alliance Technical Group, LLC (Alliance) has completed the source testing as described in this report. Results apply only to the source tested and operating conditions for the specific test dates and times identified within this report. All results are intended to be considered in their entirety, and Alliance is not responsible for use of less than the complete test report without written consent. This report shall not be reproduced in full or in part without written approval from the customer.

To the best of my knowledge and abilities, all information, facts and test data are correct. Data presented in this report has been checked for completeness and is accurate, error-free and legible. Onsite testing was conducted in accordance with approved internal Standard Operating Procedures. Any deviations or problems are detailed in the relevant sections in the test report.

This report is only considered valid once an authorized representative of Alliance has signed in the space provided below; any other version is considered draft. This document was prepared in portable document format (.pdf) and contains pages as identified in the bottom footer of this document.



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**Jason Myers, QI**  
**Alliance Technical Group, LLC**

09/22/2024

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Date

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## APPENDICES

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## Introduction



## 1.0 Introduction

Alliance Technical Group, LLC (Alliance) was retained by BASF Corporation (BASF) to conduct Clean Air Act (CAA) Section 114 information collection request (ICR) testing at the Freeport, Texas facility at the request of the United States Environmental Protection Agency (USEPA). Testing was conducted to determine the emission concentrations of polycyclic aromatic hydrocarbons (PAH), polychlorinated biphenyls (PCB), total hydrocarbons (THC) and hydrogen cyanide (HCN) at the exhaust of Incinerator IN-701 (EPN 4-1-1). This source is regulated under 40 CFR 63, Subpart EEE which is subject to this ICR.

## 1.1 Project Team

Personnel involved in this project are identified in the following table.

**Table 1-1: Project Team**

<b>BASF Personnel</b>	Brandon DeWitt Justin Matthews
<b>Alliance Personnel</b>	Seth Moore Andrew Christiansen Lane Dryden Jason Lovell Pandu Sattvika Ryan Simon

## 1.2 Test Program Notes

Calibration drift checks were performed on the Method 25A THC reference monitor hourly. Approximate 10-to-15-minute gaps in recorded THC data are noted due to these required QA checks. The EPA Method 320 HCN sampling was conducted using a shared heated sample line and therefore has corresponding data gaps during the THC QA drift checks.

## Summary of Results

## 2.0 Summary of Results

Alliance conducted CAA Section 114 ICR testing at the BASF facility in Freeport, Texas on May 15-17 and 20, 2024. Testing consisted of determining the emission rates of PAH, PCB, THC and HCN at the exhaust of Incinerator IN-701 (EPN 4-1-1).

Tables 2-1 through 2-6 provide summaries of the emission testing results. All results provided in these tables are on a concentration basis. Mass emission rates are provided in Appendix B. Any difference between the summary results listed in the following tables and the detailed results contained in appendices is due to rounding for presentation.

Result Tables Flag Definitions:

**BDL** - Below Detection Level

**DLL** - Detection Level Limited

**ADL** - Above Detection Level

**Table 2-1: Summary of Results – Hydrogen Cyanide (HCN)**

Run Number	Run 1	Flag	Run 2	Flag	Run 3	Flag	Run 4	Flag
Date	5/15/24		5/15/24		5/16/24		5/16/24	
Hydrogen Cyanide Data								
ppmvd	0.337	DLL	0.450	DLL	0.307	DLL	0.376	DLL
ppmvd @ 7% O <sub>2</sub>	0.246		0.328		0.222		0.272	
Run Number	Run 5	Flag	Run 6	Flag	Run 7	Flag	Average	Flag
Date	5/17/24		5/17/24		5/20/24		--	
Hydrogen Cyanide Data								
ppmvd	0.347	DLL	0.336	DLL	0.740	DLL	0.359	DLL
ppmvd @ 7% O <sub>2</sub>	0.251		0.243		0.535		0.261	

**Table 2-2: Summary of Results – Total Hydrocarbons (THC)**

Run Number	Run 1	Flag	Run 2	Flag	Run 3	Flag	Run 4	Flag
Date	5/15/24		5/15/24		5/16/24		5/16/24	
Total Hydrocarbons (as Propane) Data								
ppmvd	6.91E-02	ADL	4.76E-02	ADL	1.02E-02	ADL	4.53E-03	ADL
ppmvd @ 7% O <sub>2</sub>	5.05E-02		3.47E-02		7.39E-03		3.28E-03	
Total Hydrocarbons (as Propane) Data								
Total Hydrocarbons (as Propane) Data								
Run Number	Run 5	Flag	Run 6	Flag	Run 7	Flag	Average	Flag
Date	5/17/24		5/17/24		5/20/24		--	
Total Hydrocarbons (as Propane) Data								
ppmvd	5.63E-03	ADL	2.28E-03	ADL	1.33E-02	ADL	2.18E-02	ADL
ppmvd @ 7% O <sub>2</sub>	4.08E-03		1.65E-03		9.66E-03		1.59E-02	

Table 2-3: Summary of Results – Polycyclic Aromatic Hydrocarbons (PAH)- ng/dscm

Run Number Date	Run 1 5/15/24	Flag	Run 2 5/15/24	Flag	Run 3 5/16/24	Flag	Run 4 5/16/24	Flag	Run 5 5/17/24	Flag	Run 6 5/17/24	Flag	Run 7 5/20/24	Flag	Average
Naphthalene	447	ADL	456	ADL	6,157	ADL	19,733	ADL	4,297	ADL	6,233	ADL	3,395	ADL	5,817
2-Methylnaphthalene	157	ADL	152	ADL	3,462	ADL	10,289	ADL	1,714	ADL	336	ADL	449	ADL	2,366
Acenaphthylene	5.00	ADL	3.02	ADL	48.5	ADL	140	ADL	24.2	ADL	10.3	ADL	3.24	ADL	33.5
Acenaphthene	17.5	ADL	25.5	ADL	344	ADL	790	ADL	28.3	ADL	19.9	ADL	9.36	ADL	176
Fluorene	47.4	ADL	58.2	ADL	1,714	ADL	5,343	ADL	314	ADL	43.5	ADL	26.0	ADL	1,078
Phenanthrene	212	ADL	273	ADL	3,165	ADL	11,333	ADL	1,803	ADL	353	ADL	142	ADL	2,469
Anthracene	9.21	ADL	13.5	ADL	596	ADL	1,958	ADL	154	ADL	14.5	ADL	5.33	ADL	393
Fluoranthene	34.1	ADL	19.2	ADL	135	ADL	748	ADL	92.2	ADL	24.9	ADL	14.3	ADL	153
Pyrene	50.8	ADL	20.3	ADL	226	ADL	1,543	ADL	113	ADL	22.3	ADL	8.11	ADL	283
Benz[a]anthracene	0.743	ADL	0.803	ADL	91.7	ADL	1,086	ADL	56.4	ADL	15.1	ADL	0.684	BDL	179
Chrysene	9.09	ADL	5.13	ADL	142	ADL	1,747	ADL	206	ADL	116	ADL	141	ADL	338
Benzo[b]fluoranthene	3.25	ADL	1.17	ADL	12.3	ADL	298	ADL	44.9	ADL	16.3	ADL	5.15	ADL	54.5
Benzo[k]fluoranthene	0.772	ADL	0.337	ADL	3.24	ADL	72.1	ADL	0.720	BDL	7.85	ADL	0.982	ADL	12.3
Benzo[e]pyrene	14.1	ADL	3.05	ADL	22.6	ADL	522	ADL	90.3	ADL	30.0	ADL	7.88	ADL	98.5
Benzo[a]pyrene	0.952	ADL	0.639	ADL	8.36	ADL	233	ADL	0.720	BDL	8.53	ADL	2.73	ADL	36.4
Perylene	0.129	ADL	0.743	BDL	2.43	ADL	22.3	BDL	11.5	ADL	7.08	ADL	16.3	ADL	8.66
Indeno(1,2,3-cd)pyrene	6.86	ADL	1.34	ADL	6.11	ADL	22.3	BDL	41.3	ADL	12.1	ADL	27.3	ADL	16.8
Dibenz[a,h]anthracene	0.216	ADL	0.520	ADL	2.79	ADL	43.7	ADL	27.6	ADL	12.5	ADL	0.684	BDL	12.6
Benzo[g,h,i]perylene	23.5	ADL	4.76	ADL	8.43	ADL	94.7	ADL	16.2	ADL	20.2	ADL	17.8	ADL	26.5
<b>Total PAH</b>	1,041	ADL	1,039	DDL	16,147	ADL	56,020	DDL	9,035	DDL	7,303	ADL	4,272	DDL	13,551

Table 2-4: Summary of Results – Polycyclic Aromatic Hydrocarbons (PAH) – ng/dscm @ 7% oxygen

Run Number Date	Run 1 5/15/24	Flag	Run 2 5/15/24	Flag	Run 3 5/16/24	Flag	Run 4 5/16/24	Flag	Run 5 5/17/24	Flag	Run 6 5/17/24	Flag	Run 7 5/20/24	Flag	Average
Naphthalene	327	ADL	333	ADL	4,467	ADL	14,271	ADL	3,111	ADL	4,513	ADL	2,457	ADL	4,211
2-Methylnaphthalene	115	ADL	111	ADL	2,511	ADL	7,441	ADL	1,241	ADL	243	ADL	325	ADL	1,712
Acenaphthylene	3.65	ADL	2.21	ADL	35.2	ADL	101	ADL	17.6	ADL	7.47	ADL	2.34	ADL	24.3
Acenaphthene	12.8	ADL	18.6	ADL	249	ADL	572	ADL	20.5	ADL	14.4	ADL	6.78	ADL	128
Fluorene	34.6	ADL	42.5	ADL	1,243	ADL	3,864	ADL	228	ADL	31.5	ADL	18.8	ADL	780
Phenanthrene	155	ADL	199	ADL	2,296	ADL	8,196	ADL	1,305	ADL	255	ADL	103	ADL	1,787
Anthracene	6.73	ADL	9.87	ADL	432	ADL	1,416	ADL	111	ADL	10.5	ADL	3.86	ADL	284
Fluoranthene	24.9	ADL	14.0	ADL	97.9	ADL	541	ADL	66.7	ADL	18.0	ADL	10.4	ADL	110
Pyrene	37.1	ADL	14.8	ADL	164	ADL	1,116	ADL	81.7	ADL	16.1	ADL	5.87	ADL	205
Benz[a]anthracene	0.543	ADL	0.586	ADL	66.5	ADL	785	ADL	40.8	ADL	10.9	ADL	0.495	BDL	129
Chrysene	6.64	ADL	3.74	ADL	103	ADL	1,264	ADL	149	ADL	84.3	ADL	102	ADL	245
Benzo[b]fluoranthene	2.37	ADL	0.852	ADL	8.90	ADL	216	ADL	32.5	ADL	11.8	ADL	3.73	ADL	39.4
Benzo[k]fluoranthene	0.564	ADL	0.246	ADL	2.35	ADL	52.1	ADL	0.521	BDL	5.68	ADL	0.711	ADL	8.89
Benzo[e]pyrene	10.3	ADL	2.22	ADL	16.4	ADL	377	ADL	65.3	ADL	21.7	ADL	5.70	ADL	71.3
Benzo[a]pyrene	0.695	ADL	0.467	ADL	6.06	ADL	169	ADL	0.521	BDL	6.17	ADL	1.98	ADL	26.4
Perylene	0.0941	ADL	0.542	BDL	1.76	ADL	16.2	BDL	8.36	ADL	5.12	ADL	11.8	ADL	6.27
Indeno(1,2,3-cd)pyrene	5.01	ADL	0.978	ADL	4.43	ADL	16.2	BDL	29.9	ADL	8.75	ADL	19.8	ADL	12.1
Dibenz[a,h]anthracene	0.158	ADL	0.380	ADL	2.03	ADL	31.6	ADL	20.0	ADL	9.06	ADL	0.495	BDL	9.11
Benzo[g,h,i]perylene	17.2	ADL	3.47	ADL	6.12	ADL	68.5	ADL	11.7	ADL	14.6	ADL	12.9	ADL	19.2
<b>Total PAH</b>	760	ADL	758	ADL	11,714	ADL	40,514	ADL	6,541	ADL	5,287	ADL	3,091	ADL	9,809

Table 2-5: Summary of Results – Polychlorinated Biphenyls (PCB) – ng/dscm

Run Number	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Flag	Average
Date	5/15/24	5/15/24	5/16/24	5/16/24	5/17/24	5/17/24	5/20/24		
2,4'-DiCB (PCB-8)	0.239	ADL	0.546	ADL	0.346	ADL	0.129	ADL	0.458
2,2',5'-TrCB (PCB-18)	0.0735	ADL	0.282	ADL	0.0979	ADL	0.0149	ADL	0.164
2,4,4'-TrCB (PCB-28)	0.125	ADL	0.179	ADL	0.0595	ADL	0.0253	ADL	0.153
2,2',3,5'-TeCB (PCB-44)	0.435	ADL	0.623	ADL	0.528	ADL	0.224	ADL	0.679
2,2',5,5'-TeCB (PCB-52)	0.111	ADL	0.159	ADL	0.0720	ADL	0.150	BDL	0.176
2,3',4,4'-TeCB (PCB-66)	0.0290	ADL	0.0435	ADL	0.144	BDL	0.137	BDL	0.119
3,3',4,4'-TeCB (PCB-77)	0.0191	ADL	0.0297	ADL	0.151	BDL	0.144	BDL	0.107
3,4,4',5'-TeCB (PCB-81)	0.0196	BDL	0.119	BDL	0.115	BDL	0.109	BDL	0.242
2,2',4,5,5'-PeCB (PCB-101)	0.0372	ADL	0.109	ADL	0.0499	ADL	0.0114	ADL	0.0837
2,3,3',4,4'-PeCB (PCB-105)	0.0208	BDL	0.126	BDL	0.122	BDL	0.116	BDL	0.0905
2,3,4,4',5'-PeCB (PCB-114)	0.0337	BDL	0.204	BDL	0.198	BDL	0.188	BDL	0.416
2,3',4,4',5'-PeCB (PCB-118)	0.0186	ADL	0.226	BDL	0.220	BDL	0.208	BDL	0.166
2',3,4,4',5'-PeCB (PCB-123)	0.0349	BDL	0.211	BDL	0.205	BDL	0.195	BDL	0.431
3,3',4,4',5'-PeCB (PCB-126)	0.0251	BDL	0.152	BDL	0.148	BDL	0.140	BDL	0.310
2,2',3,3',4,4'-HxCB (PCB-128)	0.00164	ADL	0.00381	ADL	0.245	BDL	0.232	BDL	0.466
2,2',3,4,4',5'-HxCB (PCB-138)	0.0161	ADL	0.0110	ADL	0.0370	ADL	0.0141	ADL	0.0268
2,2',4,4',5,5'-HxCB (PCB-153)	0.0145	ADL	0.0176	ADL	0.300	BDL	0.0136	ADL	0.0697
2,3,3',4,4',5'-HxCB (PCB-156)	0.00239	ADL	0.316	BDL	0.307	BDL	0.292	BDL	0.630
2,3,3',4,4',5'-HxCB (PCB-157)	0.00239	ADL	0.316	BDL	0.307	BDL	0.292	BDL	0.630
2,3',4,4',5,5'-HxCB (PCB-167)	0.0368	BDL	0.223	BDL	0.216	BDL	0.00128	ADL	0.425
3,3',4,4',5,5'-HxCB (PCB-169)	4.88E-04	ADL	0.152	BDL	0.148	BDL	0.140	BDL	0.303
2,2',3,3',4,4',5'-HpCB (PCB-170)	0.00214	ADL	0.163	BDL	0.158	BDL	0.150	BDL	0.330
2,2',3,4,4',5,5'-HpCB (PCB-180)	0.00466	ADL	0.00167	ADL	0.00922	ADL	0.00545	ADL	0.367
2,2',3,4',5,5',6-HpCB (PCB-187)	0.00566	ADL	0.00356	ADL	0.0147	ADL	0.144	BDL	0.270
2,3,3',4,4',5,5'-HpCB (PCB-189)	0.0300	BDL	0.182	BDL	0.176	BDL	0.167	BDL	0.371
2,2',3,3',4,4',5,6-OeCB (PCB-195)	0.0325	BDL	0.197	BDL	0.191	BDL	0.181	BDL	0.401
2,2',3,3',4,4',5,5',6-NoCB (PCB-206)	0.0349	BDL	0.211	BDL	0.205	BDL	0.195	BDL	0.431
2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209)	0.0282	BDL	0.171	BDL	0.166	BDL	0.157	BDL	0.343
Total PCB	1.43	DLL	4.98	DLL	4.94	DLL	3.79	DLL	8.66

Table 2-6: Summary of Results – Polychlorinated Biphenyls (PCB) – ng/dscm @ 7% oxygen

Run Number Date	Run 1 5/15/24	Flag	Run 2 5/15/24	Flag	Run 3 5/16/24	Flag	Run 4 5/16/24	Flag	Run 5 5/17/24	Flag	Run 6 5/17/24	Flag	Run 7 5/20/24	Flag	Average
2,4'-DiCB (PCB-8)	0.174	ADL	0.244	ADL	0.396	ADL	1.02	ADL	0.250	ADL	0.150	ADL	0.0936	ADL	0.332
2,2',5'-TrCB (PCB-18)	0.0537	ADL	0.0685	ADL	0.204	ADL	0.397	ADL	0.0709	ADL	0.0243	ADL	0.0107	ADL	0.119
2,4,4'-TrCB (PCB-28)	0.0910	ADL	0.115	ADL	0.130	ADL	0.356	ADL	0.0431	ADL	0.0245	ADL	0.0183	ADL	0.111
2,2',3,5'-TeCB (PCB-44)	0.318	ADL	0.486	ADL	0.452	ADL	1.36	ADL	0.382	ADL	0.289	ADL	0.162	ADL	0.492
2,2',5,5'-TeCB (PCB-52)	0.0813	ADL	0.100	ADL	0.115	ADL	0.415	ADL	0.0521	ADL	0.0215	ADL	0.109	BDL	0.128
2,3',4,4'-TeCB (PCB-66)	0.0212	ADL	0.0233	ADL	0.0316	ADL	0.217	ADL	0.104	BDL	0.105	BDL	0.0989	BDL	0.0860
3,3',4,4'-TeCB (PCB-77)	0.0139	ADL	0.00846	ADL	0.0215	ADL	0.175	ADL	0.109	BDL	0.110	BDL	0.104	BDL	0.0775
3,4,4',5'-TeCB (PCB-81)	0.0143	BDL	0.0174	BDL	0.0861	BDL	0.863	BDL	0.0834	BDL	0.0840	BDL	0.0791	BDL	0.175
2,2',4,5,5'-PeCB (PCB-101)	0.0271	ADL	0.0335	ADL	0.0793	ADL	0.228	ADL	0.0361	ADL	0.0121	ADL	0.00828	ADL	0.0607
2,3,3',4,4'-PeCB (PCB-105)	0.0152	BDL	0.00566	ADL	0.0915	BDL	0.0847	ADL	0.0886	BDL	0.0892	BDL	0.0841	BDL	0.0656
2,3,4,4',5'-PeCB (PCB-114)	0.0246	BDL	0.0298	BDL	0.148	BDL	1.48	BDL	0.143	BDL	0.144	BDL	0.136	BDL	0.301
2,3',4,4',5'-PeCB (PCB-118)	0.0136	ADL	0.0111	ADL	0.164	BDL	0.182	ADL	0.159	BDL	0.160	BDL	0.151	BDL	0.120
2',3,4,4',5'-PeCB (PCB-123)	0.0255	BDL	0.0309	BDL	0.153	BDL	1.54	BDL	0.149	BDL	0.150	BDL	0.141	BDL	0.312
3,3',4,4',5'-PeCB (PCB-126)	0.0183	BDL	0.0222	BDL	0.110	BDL	1.11	BDL	0.107	BDL	0.108	BDL	0.101	BDL	0.225
2,2',3,3',4,4'-HxCB (PCB-128)	0.00120	ADL	7.07E-04	ADL	0.00276	ADL	1.83	BDL	0.177	BDL	0.178	BDL	0.168	BDL	0.337
2,2',3,4,4',5'-HxCB (PCB-138)	0.0117	ADL	0.00859	ADL	0.00798	ADL	0.0581	ADL	0.0268	ADL	0.0124	ADL	0.0102	ADL	0.0194
2,2',4,4',5,5'-HxCB (PCB-153)	0.0106	ADL	0.00984	ADL	0.0128	ADL	0.0820	ADL	0.217	BDL	0.0111	ADL	0.00984	ADL	0.0505
2,3,3',4,4',5'-HxCB (PCB-156)	0.00174	ADL	0.00170	ADL	0.230	BDL	2.30	BDL	0.222	BDL	0.224	BDL	0.211	BDL	0.456
2,3,3',4,4',5'-HxCB (PCB-157)	0.00174	ADL	0.00170	ADL	0.230	BDL	2.30	BDL	0.222	BDL	0.224	BDL	0.211	BDL	0.456
2,3',4,4',5,5'-HxCB (PCB-167)	0.0268	BDL	0.0325	BDL	0.161	BDL	1.62	BDL	0.156	BDL	0.157	BDL	9.27E-04	ADL	0.308
3,3',4,4',5,5'-HxCB (PCB-169)	3.56E-04	ADL	6.67E-04	ADL	0.110	BDL	1.11	BDL	0.107	BDL	0.108	BDL	0.101	BDL	0.219
2,2',3,3',4,4',5'-HpCB (PCB-170)	0.00157	ADL	0.0239	BDL	0.118	BDL	1.19	BDL	0.115	BDL	0.115	BDL	0.109	BDL	0.238
2,2',3,4,4',5,5'-HpCB (PCB-180)	0.00340	ADL	0.00589	ADL	0.00121	ADL	1.83	BDL	0.00667	ADL	0.00184	ADL	0.00394	ADL	0.265
2,2',3,4',5,5',6'-HpCB (PCB-187)	0.00413	ADL	0.00316	ADL	0.00258	ADL	1.13	BDL	0.0107	ADL	0.110	BDL	0.104	BDL	0.195
2,3,3',4,4',5,5'-HpCB (PCB-189)	0.0219	BDL	0.0266	BDL	0.132	BDL	1.32	BDL	0.128	BDL	0.129	BDL	0.121	BDL	0.268
2,2',3,3',4,4',5,6'-OoCB (PCB-195)	0.0237	BDL	0.0288	BDL	0.143	BDL	1.43	BDL	0.138	BDL	0.139	BDL	0.131	BDL	0.290
2,2',3,3',4,4',5,5',6'-NoCB (PCB-206)	0.0255	BDL	0.0309	BDL	0.153	BDL	1.54	BDL	0.149	BDL	0.150	BDL	0.141	BDL	0.312
2,2',3,3',4,4',5,5',6',6'-DeCB (PCB-209)	0.0206	BDL	1.43E-04	ADL	0.124	BDL	1.24	BDL	0.120	BDL	0.121	BDL	0.114	BDL	0.248
Total PCB	1.05	DLL	1.37	DLL	3.61	DLL	28.4	DLL	3.57	DLL	3.15	DLL	2.75	DLL	6.27

## Testing Methodology



### 3.0 Testing Methodology

The emission testing program was conducted in accordance with the test methods listed in Table 3-1. Method descriptions are provided below while quality assurance/quality control data is provided in Appendix D.

**Table 3-1: Source Testing Methodology**

Parameter	U.S. EPA Reference Test Methods	Notes/Remarks
Volumetric Flow Rate	1 & 2	Full Velocity Traverses
Oxygen/Carbon Dioxide	3A	Instrumental Analysis
Moisture Content	4	Gravimetric Analysis
PAH & PCB	23	Isokinetic Sampling
Total Hydrocarbons	25A	Instrumental Analysis
Hydrogen Cyanide	320	FTIR – Continuous Sampling
Gas Dilution System Certification	205	--

#### 3.1 U.S. EPA Reference Test Methods 1 and 2 – Sampling/Traverse Points and Volumetric Flow Rate

The sampling location and number of traverse (sampling) points were selected in accordance with U.S. EPA Reference Test Method 1. To determine the minimum number of traverse points, the upstream and downstream distances were equated into equivalent diameters and compared to Figure 1-1 (for isokinetic sampling) in U.S. EPA Reference Test Method 1.

Full velocity traverses were conducted in accordance with U.S. EPA Reference Test Method 2 to determine the average stack gas velocity pressure, static pressure and temperature. The velocity and static pressure measurement system consisted of a pitot tube and inclined manometer. The stack gas temperature was measured with a K-type thermocouple and pyrometer.

Stack gas velocity pressure and temperature readings were recorded during each test run. The data collected was utilized to calculate the volumetric flow rate in accordance with U.S. EPA Reference Test Method 2.

#### 3.2 U.S. EPA Reference Test Method 3A – Oxygen / Carbon Dioxide

The oxygen (O<sub>2</sub>) and carbon dioxide (CO<sub>2</sub>) testing was conducted in accordance with U.S. EPA Reference Test Method 3A. Data was collected online and reported in one-minute averages. The sampling system consisted of a stainless-steel probe, Teflon sample line(s), gas conditioning system and the identified gas analyzer. The gas conditioning system was a non-contact condenser used to remove moisture from the stack gas. A heated Teflon sample line was used. The quality control measures are described in Section 3.8.

#### 3.3 U.S. EPA Reference Test Method 4 – Moisture Content

The stack gas moisture content (BWS) was determined in accordance with U.S. EPA Reference Test Method 4. The gas conditioning train consisted of a series of chilled impingers. Prior to testing, each impinger was filled with a known quantity of water or silica gel. Each impinger was analyzed gravimetrically before and after each test run on the same balance to determine the amount of moisture condensed.

### 3.4 U.S. EPA Reference Test Method 23 – PAH and PCB

The PAH and PCB testing was conducted in accordance with U.S. EPA Reference Test Method 23. The sampling system consisted of a glass nozzle, heated glass-lined probe, glass filter holder with pre-cleaned heated glass-fiber filter, condenser coil, XAD sorbent module, gas conditioning train, pump and calibrated dry gas meter. The gas conditioning system consisted of five (5) chilled impingers. The first impinger was empty. The next two (2) impingers each contained 100 mL of water. The fourth impinger was empty while the fifth impinger was charged with 200-300 grams of silica gel. The probe liner and filter heating systems were maintained at a temperature of  $120 \pm 14^{\circ}\text{C}$  ( $248 \pm 25^{\circ}\text{F}$ ), and the impinger temperature was maintained at  $20^{\circ}\text{C}$  ( $68^{\circ}\text{F}$ ) or less throughout testing.

Method 23 Section 6.1.7 requires the condenser to be oriented at an angle to cause moisture to flow down to the XAD adsorbent module to facilitate condensate drainage. Glassware with this configuration is not currently available from a national supplier utilizing a large enough condenser to meet the temperature specifications of the method. Alliance will continue to work with manufacturers, but until equipment is widely available, the horizontal or vertical condenser configuration from traditional Method 23 was utilized.

All glassware leading to the XAD adsorbing resin trap was cleaned and sealed before mobilizing to the site. Glassware cleaning consisted of washing with warm soapy water and rinsing with distilled water and acetone. The sampling train was assembled in the sample recovery area. The glass-fiber filter was placed in a glass filter holder with a Teflon filter support and connected to the condenser coil. All open ends of the sampling train were sealed with Teflon tape prior to complete assembly at the sampling location.

Following the completion of each test run, the sampling train was leak checked at vacuum pressure greater than or equal to the highest vacuum pressure observed during the run and the contents of the impingers were measured for moisture gain. The XAD sorbent module was sealed on both ends and placed on ice. The filter was removed from the filter holder and placed in sample container 1. The nozzle, probe liner, filter holder, condenser and all connecting glassware were triple-rinsed and brushed with acetone and then toluene, and these rinses were recovered in sample container 2. The impinger water condensate was recovered into sample container 3a. All impingers were then rinsed three times with acetone and then three times with toluene and collected in sample container 3b. All containers were sealed, labeled and liquid levels marked for transport to the identified laboratory for analysis.

Method 23 Section 8.2.9 has the impinger water and solvent rinses collected in a single container (No. 3). Due to analytical method development constraints of the subcontracted laboratory, it was necessary to split this recovery between two containers: condensate (Container No. 3a) and solvent rinses (Container No. 3b).

A field train proof blank was collected. A complete sampling system was placed at the sampling location and multiple leak checks were performed on the system similar to an actual testing scenario. The sample train was then moved to the mobile laboratory for recovery. A full set of reagent blanks including a filter and a trap were also submitted to the laboratory.

Targeted PAH and PCB analytes are detailed below:

PAH Analytes			
PAH Compound	CAS Number	PAH Compound	CAS Number
Naphthalene	91-20-3	Chrysene	218-01-9
2-Methylnaphthalene	91-57-6	Benzo[b]fluoranthene	205-99-2
Acenaphthylene	208-96-8	Benzo[k]fluoranthene	207-08-9
Acenaphthene	83-32-9	Perylene	198-55-8
Fluorene	86-73-7	Benzo[a]pyrene	50-32-8
Anthracene	120-12-7	Benzo[e]pyrene	192-97-2
Phenanthrene	85-01-8	Benzo[g,h,i]perylene	191-24-2
Fluoranthene	206-44-0	Indeno[1,2,3-cd]pyrene	193-39-5
Pyrene	129-00-0	Dibenz[a,h]anthracene	53-70-3
Benz[a]anthracene	56-55-3		
PCB Analytes			
PCB Congener	CAS Number	PCB Congener	CAS Number
2,4'-DiCB	34883-43-7	2,2',3,3',4,4'-HxCB	38380-07-3
2,2',5-TrCB	37680-65-2	2,2',3,4,4',5'-HxCB	35065-28-2
2,4,4'-TrCB	7012-37-5	2,2',4,4',5,5'-HxCB	35065-27-1
2,2',3,5'-TeCB	41464-39-5	2,3,3',4,4',5-HxCB	38380-08-4
2,2',5,5'-TeCB	35693-99-3	2,3,3',4,4',5'-HxCB	69782-90-7
2,3',4,4'-TeCB	32598-10-0	2,3',4,4',5,5'-HxCB	52663-72-6
3,3',4,4'-TeCB	32598-13-3	3,3',4,4',5,5'-HxCB	32774-16-6
3,4,4',5-TeCB	70362-50-4	2,2',3,3',4,4',5-HpCB	35065-30-6
2,2',4,5,5'-PeCB	37680-73-2	2,2',3,4,4',5,5'-HpCB	35065-29-3
2,3,3',4,4'-PeCB	32598-14-4	2,2',3,4',5,5',6-HpCB	52663-68-0
2,3,4,4',5-PeCB	74472-37-0	2,3,3',4,4',5,5'-HpCB	39635-31-9
2,3',4,4',5-PeCB	31508-00-6	2,2',3,3',4,4',5,6-OcCB	52663-78-2
2',3,4,4',5-PeCB	65510-44-3	2,2',3,3',4,4',5,5',6-NoCB	40186-72-9
3,3',4,4',5-PeCB	57465-28-8	2,2',3,3',4,4',5,5',6,6'-DeCB	2051-24-3

### 3.5 U.S. EPA Reference Test Method 25A – Total Hydrocarbons

The total hydrocarbons (THC) testing was conducted in accordance with U.S. EPA Reference Test Method 25A. Data was collected online and reported in one-minute averages. The sampling system consisted of a stainless-steel probe, heated Teflon sample line(s) and the identified gas analyzer. The quality control measures are described in Section 3.9.

### 3.6 U.S. EPA Reference Test Method 320 – Hydrogen Cyanide

The concentrations of hydrogen cyanide were determined in accordance with U.S. EPA Reference Test Method 320. Each source gas stream was extracted at a constant rate through a heated probe, heated filter and heated sample line and analyzed with a MKS MultiGas 2030 FTIR operated by a portable computer. The computer has FTIR spectra of calibration gases stored on the hard drive. These single component calibration spectra are used to analyze the measured sample spectra. The gas components to be measured were selected from the spectra library and incorporated into the analytical method. The signal amplitude, linearity, and signal to noise ratio were measured and recorded to document analyzer performance. A leak check was performed on the sample cell. The instrument path length was verified using ethylene as the Calibration Transfer Standard. Dynamic spiking was performed using a certified standard of the target compound in nitrogen with sulfur hexafluoride blended as a tracer to calculate the dilution factor. All test spectra, interferograms, and analytical method information are recorded and stored with the calculated analytical results. The quality control measures are described in Section 3.10.

### 3.7 U.S. EPA Reference Test Method 205 – Gas Dilution System Certification

A calibration gas dilution system field check was conducted in accordance with U.S. EPA Reference Method 205. An initial three (3) point calibration was conducted, using individual Protocol 1 gases, on the analyzer used to complete the dilution system field check. Multiple dilution rates and total gas flow rates were utilized to force the dilution system to perform two dilutions on each mass flow controller. The diluted calibration gases was sent directly to the analyzer, and the analyzer response recorded in an electronic field data sheet. A mid-level supply gas, with a cylinder concentration within 10% of one of the gas divider settings described above, was introduced directly to the analyzer, and the analyzer response recorded in an electronic field data sheet. The cylinder concentration and the analyzer response agreed within 2%. These steps were repeated three (3) times. The average analyzer response agreed within 2% of the predicted gas concentration. No single injection differed more than 2% from the average instrument response for that dilution. Copies of the Method 205 data can be found in the Quality Assurance/Quality Control Appendix.

### 3.8 Quality Assurance/Quality Control – U.S. EPA Reference Test Method 3A

Cylinder calibration gases used met EPA Protocol 1 (+/- 2%) standards. Copies of all calibration gas certificates can be found in the Quality Assurance/Quality Control Appendix.

Low Level gas was introduced directly to the analyzer. After adjusting the analyzer to the Low-Level gas concentration and once the analyzer reading was stable, the analyzer value was recorded. This process was repeated for the High-Level gas. For the Calibration Error Test, Low, Mid, and High Level calibration gases were sequentially introduced directly to the analyzer. All values were within 2.0 percent of the Calibration Span or 0.5% absolute difference.

High or Mid-Level gas (whichever was closer to the stack gas concentration) was introduced at the probe and the time required for the analyzer reading to reach 95 percent or 0.5% (whichever was less restrictive) of the gas concentration was recorded. The analyzer reading was observed until it reached a stable value, and this value was recorded. Next, Low Level gas was introduced at the probe and the time required for the analyzer reading to decrease to a value within 5.0 percent or 0.5% (whichever was less restrictive) was recorded. If the Low-Level gas was zero gas, the response was 0.5% or 5.0 percent of the upscale gas concentration (whichever was less restrictive). The analyzer reading was observed until it reached a stable value and this value was recorded.

The measurement system response time and initial system bias were determined from these data. The System Bias was within 5.0 percent of the Calibration Span or 0.5% absolute difference.

High or Mid-Level gas (whichever was closer to the stack gas concentration) was introduced at the probe. After the analyzer response was stable, the value was recorded. Next, Low Level gas was introduced at the probe, and the analyzer value recorded once it reached a stable response. The System Bias was within 5.0 percent of the Calibration Span or 0.5% absolute difference or the data was invalidated and the Calibration Error Test and System Bias were repeated.

Drift between pre- and post-run System Bias was within 3 percent of the Calibration Span or 0.5% absolute difference. If the drift exceeded 3 percent or 0.5%, the Calibration Error Test and System Bias were repeated.

To determine the number of sampling points, a gas stratification check was conducted prior to initiating testing. The pollutant concentrations were measured at three points (16.7, 50.0 and 83.3 percent of the measurement line). Each traverse point was sampled for a minimum of twice the system response time. The diluent concentration at each traverse point did not differ more than 5 percent of the average diluent concentration, and single point sampling was conducted during the test runs. Copies of stratification check data can be found in the Quality Assurance/Quality Control Appendix.

A Data Acquisition System with battery backup was used to record the instrument response in one (1) minute averages. The data was continuously stored as a \*.CSV file in Excel format on the hard drive of a computer. At the completion of testing, the data was also saved to the Alliance server. All data was reviewed by the Field Team Leader before leaving the facility. Once arriving at Alliance's office, all written and electronic data was relinquished to the report coordinator and then a final review was performed by the Project Manager.

### **3.9 Quality Assurance/Quality Control – U.S. EPA Reference Test Method 25A**

Cylinder calibration gases used met EPA Protocol 1 (+/- 2%) standards. Copies of all calibration gas certificates can be found in the Quality Assurance/Quality Control Appendix.

Within two (2) hours prior to testing, zero gas was introduced through the sampling system to the analyzer. After adjusting the analyzer to the Zero gas concentration and once the analyzer reading was stable, the analyzer value was recorded. This process was repeated for the High-Level gas, and the time required for the analyzer reading to reach 95 percent of the gas concentration was recorded to determine the response time. Next, Low and Mid-Level gases were introduced through the sampling system to the analyzer, and the response was recorded when it was stable. All values were less than +/- 5 percent of the calibration gas concentrations.

Mid-Level gas was introduced through the sampling system. After the analyzer response was stable, the value was recorded. Next, Zero gas was introduced through the sampling system, and the analyzer value recorded once it reached a stable response. The Analyzer Drift was less than +/- 3 percent of the span value. Analyzer drift checks were conducted once hourly during testing.

A Data Acquisition System with battery backup was used to record the instrument response in one (1) minute averages. The data was continuously stored as a \*.CSV file in Excel format on the hard drive of a computer. At the completion of testing, the data was also saved to the Alliance server. All data was reviewed by the Field Team Leader before leaving the facility. Once arriving at Alliance's office, all written and electronic data was relinquished to the report coordinator and then a final review was performed by the Project Manager.

### **3.10 Quality Assurance/Quality Control – U.S. EPA Reference Method 320**

EPA Protocol 1 Calibration Gases – Cylinder calibration gases used met EPA Protocol 1 (+/- 2%) standards. Copies of all calibration gas certificates can be found in the Quality Assurance/Quality Control Appendix.

After providing ample time for the FTIR to reach the desired temperature and to stabilize, zero gas (nitrogen) was introduced directly to the instrument sample port. While flowing nitrogen the signal amplitude was recorded, a background spectra was taken, a linearity check was performed and recorded, the peak to peak noise and the root mean square in the spectral region of interest was measured and a screenshot was recorded.

Following the zero gas checks, room air was pulled through the sample chamber and the line width and resolution was verified to be at 1879 cm<sup>-1</sup>, the peak position was entered and the FWHH was recorded (screenshot). Following these checks, another background spectra was recorded and the calibration transfer standard (CTS) was introduced directly to the instrument sample port. The CTS instrument recovery was recorded and the instrument mechanical response time was measured.

Next, stack gas was introduced to the FTIR through the sampling system and several scans were taken until a stable reading was achieved. The native concentration of our target spiking analyte (HCN) was recorded. Spike gas was introduced to the sampling system at a constant flow rate  $\leq 10\%$  of the total sample flow rate and a corresponding dilution ratio was calculated along with a system response time. Matrix spike recovery spectra were recorded and were within the  $\pm 30\%$  of the calculated value of the spike concentration that the method requires.

The matrix spike recovery was conducted once at the beginning of the testing and the CTS recovery procedures were repeated following each test run. The corresponding values were recorded.

## Appendix A

Location: **BASF Corporation - Freeport, TX**  
Source: **Incinerator IN-701 EPN 4-1-1**  
Project No.: **AST-2024-2250**  
Run No.: **1**  
Parameters: **PCB, PAH**

Meter Pressure (Pm), in. Hg

$$P_m = P_b + \frac{\Delta H}{13.6}$$

where,

$P_b$	$\frac{29.81}{}$	= barometric pressure, in. Hg
$\Delta H$	$\frac{1.802}{}$	= pressure differential of orifice, in H <sub>2</sub> O
$P_m$	$\frac{29.94}{}$	= in. Hg

Absolute Stack Gas Pressure (Ps), in. Hg

$$P_s = P_b + \frac{P_g}{13.6}$$

where,

$P_b$	$\frac{29.81}{}$	= barometric pressure, in. Hg
$P_g$	$\frac{-0.75}{}$	= static pressure, in. H <sub>2</sub> O
$P_s$	$\frac{29.75}{}$	= in. Hg

Standard Meter Volume (Vmstd), dscf

$$Vmstd = \frac{17.636 \times Y \times V_m \times P_m}{T_m}$$

where,

$Y$	$\frac{1.014}{}$	= meter correction factor
$V_m$	$\frac{176.399}{}$	= meter volume, cf
$P_m$	$\frac{29.94}{}$	= absolute meter pressure, in. Hg
$T_m$	$\frac{546.1}{}$	= absolute meter temperature, °R
$Vmstd$	$\frac{172.953}{}$	= dscf

Standard Wet Volume (Vwstd), scf

$$Vwstd = 0.04716 \times Vlc$$

where,

$Vlc$	$\frac{996.8}{}$	= weight of H <sub>2</sub> O collected, g
$Vwstd$	$\frac{47.009}{}$	= scf

Moisture Fraction (BWSsat), dimensionless (theoretical at saturated conditions)

$$BWSsat = \frac{10^{6.37 - \left(\frac{2,827}{T_s + 365}\right)}}{P_s}$$

where,

$T_s$	$\frac{638.2}{}$	= stack temperature, °F
$P_s$	$\frac{29.75}{}$	= absolute stack gas pressure, in. Hg
$BWSsat$	$\frac{119.397}{}$	= dimensionless



**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Run No.:** 1  
**Parameters:** PCB, PAH

**Moisture Fraction (BWS), dimensionless (measured)**

$$BWS = \frac{V_{wstd}}{(V_{wstd} + V_{mstd})}$$

where,

$V_{wstd}$	<u>47.009</u>	= standard wet volume, scf
$V_{mstd}$	<u>172.953</u>	= standard meter volume, dscf
$BWS$	<u>0.214</u>	= dimensionless

**Moisture Fraction (BWS), dimensionless**

$$BWS = BWS_{msd} \text{ unless } BWS_{sat} < BWS_{msd}$$

where,

$BWS_{sat}$	<u>119.397</u>	= moisture fraction (theoretical at saturated conditions)
$BWS_{msd}$	<u>0.214</u>	= moisture fraction (measured)
$BWS$	<u>0.214</u>	

**Molecular Weight (DRY) (Md), lb/lb-mole**

$$Md = (0.44 \times \% CO_2) + (0.32 \times \% O_2) + (0.28 (100 - \% CO_2 - \% O_2))$$

where,

$CO_2$	<u>7.60</u>	= carbon dioxide concentration, %
$O_2$	<u>1.87</u>	= oxygen concentration, %
$Md$	<u>29.29</u>	= lb/lb mol

**Molecular Weight (WET) (Ms), lb/lb-mole**

$$Ms = Md (1 - BWS) + 18.015 (BWS)$$

where,

$Md$	<u>29.29</u>	= molecular weight (DRY), lb/lb mol
$BWS$	<u>0.214</u>	= moisture fraction, dimensionless
$Ms$	<u>26.88</u>	= lb/lb mol

**Average Velocity (Vs), ft/sec**

$$Vs = 85.49 \times C_p \times (\Delta P^{1/2})_{avg} \times \sqrt{\frac{T_s}{P_s \times M_s}}$$

where,

$C_p$	<u>0.826</u>	= pitot tube coefficient
$\Delta P^{1/2}$	<u>0.629</u>	= velocity head of stack gas, (in. H <sub>2</sub> O) <sup>1/2</sup>
$T_s$	<u>1097.9</u>	= absolute stack temperature, °R
$P_s$	<u>29.75</u>	= absolute stack gas pressure, in. Hg
$M_s$	<u>26.88</u>	= molecular weight of stack gas, lb/lb mol
$V_s$	<u>52.0</u>	= ft/sec



**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Run No.:** 1  
**Parameters:** PCB, PAH

**Average Stack Gas Flow at Stack Conditions (Qa), acfm**

$$Q_a = 60 \times V_s \times A_s$$

where,

$$\begin{array}{ll}
 V_s \frac{52.0}{\text{ft/sec}} & = \text{stack gas velocity, ft/sec} \\
 A_s \frac{38.52}{\text{ft}^2} & = \text{cross-sectional area of stack, ft}^2 \\
 Q_a \frac{120,194}{\text{acfm}} & = \text{acfm}
 \end{array}$$

**Average Stack Gas Flow at Standard Conditions (Qs), dscfm**

$$Q_s = 17.636 \times Q_a \times (1 - BWS) \times \frac{P_s}{T_s}$$

where,

$$\begin{array}{ll}
 Q_a \frac{120,194}{\text{acfm}} & = \text{average stack gas flow at stack conditions, acfm} \\
 BWS \frac{0.214}{\text{dimensionless}} & = \text{moisture fraction, dimensionless} \\
 P_s \frac{29.75}{\text{in. Hg}} & = \text{absolute stack gas pressure, in. Hg} \\
 T_s \frac{1097.9}{\text{°R}} & = \text{absolute stack temperature, °R} \\
 Q_s \frac{45,172}{\text{dscfm}} & = \text{dscfm}
 \end{array}$$

**Dry Gas Meter Calibration Check (Yqa), dimensionless**

$$Y_{qa} = \frac{Y - \left( \frac{\Theta}{V_m} \sqrt{\frac{0.0319 \times T_m \times 29}{\Delta H @ \times \left( P_b + \frac{\Delta H_{avg.}}{13.6} \right) \times M_d}} \sqrt{\Delta H_{avg.}} \right)}{Y} \times 100$$

where,

$$\begin{array}{ll}
 Y \frac{1.014}{\text{dimensionless}} & = \text{meter correction factor, dimensionless} \\
 \Theta \frac{240}{\text{min.}} & = \text{run time, min.} \\
 V_m \frac{176.399}{\text{dcf}} & = \text{total meter volume, dcf} \\
 T_m \frac{546.1}{\text{°R}} & = \text{absolute meter temperature, °R} \\
 \Delta H @ \frac{1.884}{\text{in. H}_2\text{O}} & = \text{orifice meter calibration coefficient, in. H}_2\text{O} \\
 P_b \frac{29.81}{\text{in. Hg}} & = \text{barometric pressure, in. Hg} \\
 \Delta H_{avg} \frac{1.802}{\text{in. H}_2\text{O}} & = \text{average pressure differential of orifice, in. H}_2\text{O} \\
 M_d \frac{29.29}{\text{lb/lb mol}} & = \text{molecular weight (DRY), lb/lb mol} \\
 (\Delta H)^{1/2} \frac{1.342}{\text{(in. H}_2\text{O})^{1/2}} & = \text{average squareroot pressure differential of orifice, (in. H}_2\text{O})^{1/2} \\
 Y_{qa} \frac{0.4}{\text{percent}} & = \text{percent}
 \end{array}$$

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Run No.:** 1  
**Parameters:** PCB, PAH

Volume of Nozzle (Vn), ft<sup>3</sup>

$$V_n = \frac{T_s}{P_s} \left( 0.002669 \times V_{lc} + \frac{V_m \times P_m \times Y}{T_m} \right)$$

where,

Ts	<u>1097.9</u>	= absolute stack temperature, °R
Ps	<u>29.75</u>	= absolute stack gas pressure, in. Hg
Vlc	<u>996.8</u>	= volume of H <sub>2</sub> O collected, ml
Vm	<u>176.399</u>	= meter volume, cf
Pm	<u>29.94</u>	= absolute meter pressure, in. Hg
Y	<u>1.014</u>	= meter correction factor, unitless
Tm	<u>546.1</u>	= absolute meter temperature, °R
Vn	<u>460.010</u>	= volume of nozzle, ft <sup>3</sup>

Isokinetic Sampling Rate (I), %

$$I = \left( \frac{V_n}{\theta \times 60 \times A_n \times V_s} \right) \times 100$$

where,

Vn	<u>460.010</u>	= nozzle volume, ft <sup>3</sup>
θ	<u>240.0</u>	= run time, minutes
An	<u>0.00060</u>	= area of nozzle, ft <sup>2</sup>
Vs	<u>52.0</u>	= average velocity, ft/sec
I	<u>102.8</u>	= %

Location: **BASF Corporation - Freeport, TX**  
Source: **Incinerator IN-701 EPN 4-1-1**  
Project No.: **AST-2024-2250**  
Run No.: **1**  
Parameters: **PCB, PAH**

**2,4'-DiCB (PCB-8) Concentration ( $C_8$ ), ng/dscm**

$$C_{PCB-8} = \frac{M_{PCB-8} \times 35.3147}{Vmstd}$$

where,

$M_{PCB-8}$	<u>1.17</u>	= 2,4'-DiCB (PCB-8) mass, ng
$Vmstd$	<u>172.953</u>	= standard meter volume, dscf
$C_{PCB-8}$	<u>0.239</u>	= 2,4'-DiCB (PCB-8) Concentration, ng/dscm

**2,4'-DiCB Concentration (corrected) ( $C_{PCB-8c-7}$ ), ng/dscm @ 7%  $O_2$**

$$C_{PCB-8c-7} = \frac{M_{PCB-8} \times 35.3147}{Vmstd} \times \frac{20.9 - 7}{20.9 - O_2}$$

where,

$M_{PCB-8}$	<u>1.17</u>	= 2,4'-DiCB (PCB-8) mass, ng
$Vmstd$	<u>172.953</u>	= standard meter volume, dscf
$O_2$	<u>1.87</u>	= measured $O_2$ Concentration, %d
$C_{PCB-8c-7}$	<u>0.174</u>	= 2,4'-DiCB Concentration, ng/dscm @ 7% $O_2$

**Naphthalene Concentration ( $C_{C_{10}H_8}$ ), ng/dscm**

$$C_{C_{10}H_8} = \frac{M_{C_{10}H_8} \times 35.3147}{Vmstd}$$

where,

$M_{C_{10}H_8}$	<u>2,190</u>	= Naphthalene mass, ng
$Vmstd$	<u>172.953</u>	= standard meter volume, dscf
$C_{C_{10}H_8}$	<u>447</u>	= Naphthalene Concentration, ng/dscm

**Naphthalene Concentration (corrected) ( $C_{C_{10}H_8c-7}$ ), ng/dscm @ 7%  $O_2$**

$$C_{C_{10}H_8c-7} = \frac{M_{C_{10}H_8} \times 35.3147}{Vmstd} \times \frac{20.9 - 7}{20.9 - O_2}$$

where,

$M_{C_{10}H_8}$	<u>2,190</u>	= Naphthalene mass, ng
$Vmstd$	<u>172.953</u>	= standard meter volume, dscf
$O_2$	<u>1.87</u>	= measured $O_2$ Concentration, %d
$C_{C_{10}H_8c-7}$	<u>327</u>	= Naphthalene Concentration, ng/dscm @ 7% $O_2$

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Run No. /Method** Run 1 / Method 3A

**O<sub>2</sub> - Outlet Concentration (C<sub>O<sub>2</sub></sub>), % dry**

$$C_{O_2} = (C_{obs} - C_0) \times \left( \frac{C_{MA}}{C_M - C_0} \right)$$

**where,**

$C_{obs}$	1.86	= average analyzer value during test, % dry
$C_0$	0.00	= average of pretest & posttest zero responses, % dry
$C_{MA}$	11.02	= actual concentration of calibration gas, % dry
$C_M$	10.97	= average of pretest & posttest calibration responses, % dry
$C_{O_2}$	1.87	= O <sub>2</sub> Concentration, % dry

**CO<sub>2</sub> - Outlet Concentration (C<sub>CO<sub>2</sub></sub>), % dry**

$$C_{CO_2} = (C_{obs} - C_0) \times \left( \frac{C_{MA}}{C_M - C_0} \right)$$

**where,**

$C_{obs}$	7.52	= average analyzer value during test, % dry
$C_0$	0.03	= average of pretest & posttest zero responses, % dry
$C_{MA}$	10.95	= actual concentration of calibration gas, % dry
$C_M$	10.82	= average of pretest & posttest calibration responses, % dry
$C_{CO_2}$	7.60	= CO <sub>2</sub> Concentration, % dry

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Run No. /Method** Run 1 / Method 25A

**THC - Outlet Concentration (as C<sub>3</sub>H<sub>8</sub>) (C<sub>THC</sub>), ppmvd**

$$C_{\text{THC}} = \frac{C_{\text{THCw}}}{1 - \text{BWS}}$$

where,

$$\begin{aligned} C_{\text{THCw}} \frac{0.0543}{0.214} &= \text{THC - Outlet Concentration (as C}_3\text{H}_8\text{), ppmvw} \\ \text{BWS} &= \text{moisture fraction, unitless} \\ C_{\text{THC}} \frac{0.0691}{0.0691} &= \text{ppmvd} \end{aligned}$$

**THC - Outlet Concentration (as C<sub>3</sub>H<sub>8</sub>) (C<sub>THC7</sub>), ppmvd @ 7% O<sub>2</sub>**

$$C_{\text{THC7}} = C_{\text{THC}} \times \left( \frac{20.9 - 7}{20.9 - \text{O}_2} \right)$$

where,

$$\begin{aligned} C_{\text{THC}} \frac{0.0691}{1.87} &= \text{THC - Outlet Concentration (as C}_3\text{H}_8\text{), ppmvd} \\ \text{O}_2 &= \text{oxygen concentration, \%} \\ C_{\text{THC7}} \frac{0.0505}{0.0505} &= \text{ppmvd @7\% O}_2 \end{aligned}$$

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Run No. /Method** Run 1 / Method 320

### HCN - Outlet Concentration ( $C_{\text{HCN}}$ ), ppmvd

$$C_{\text{HCN}} = \frac{C_{\text{HCNw}}}{1 - \text{BWS}}$$

where,

$$\begin{array}{lll} C_{\text{HCNw}} & \frac{0.27}{0.214} & = \text{HCN - Outlet Concentration, ppmvw} \\ \text{BWS} & & = \text{moisture fraction, unitless} \\ C_{\text{HCN}} & \frac{0.34}{0.34} & = \text{ppmvd} \end{array}$$

### HCN - Outlet Concentration ( $C_{\text{HCN}7}$ ), ppmvd @ 7% O<sub>2</sub>

$$C_{\text{HCN}7} = C_{\text{HCN}} \times \left( \frac{20.9 - 7}{20.9 - \text{O}_2} \right)$$

where,

$$\begin{array}{lll} C_{\text{HCN}} & \frac{0.34}{1.87} & = \text{HCN - Outlet Concentration, ppmvd} \\ \text{O}_2 & & = \text{oxygen concentration, \%} \\ C_{\text{HCN}7} & \frac{0.25}{0.25} & = \text{ppmvd @7\% O}_2 \end{array}$$

### HCN - Outlet Emission Rate ( $\text{ER}_{\text{HCN}}$ ), lb/hr

$$\text{ER}_{\text{HCN}} = \frac{C_{\text{HCN}} \times \text{MW} \times \text{Qs} \times 60 \frac{\text{min}}{\text{hr}} \times 28.32 \frac{\text{L}}{\text{ft}^3}}{24.04 \frac{\text{L}}{\text{g-mole}} \times 1.0\text{E}06 \times 454 \frac{\text{g}}{\text{lb}}}$$

where,

$$\begin{array}{lll} C_{\text{HCN}} & \frac{0.34}{27.03} & = \text{HCN - Outlet Concentration, ppmvd} \\ \text{MW} & & = \text{HCN molecular weight, g/g-mole} \\ \text{Qs} & \frac{45,172}{0.454} & = \text{stack gas volumetric flow rate at standard conditions, dscfm} \\ \text{ER}_{\text{HCN}} & & = \text{lb/hr} \end{array}$$

**Location** BASF Corporation - Freeport, TX

**Source** Incinerator IN-701 EPN 4-1-1

**Project No.** AST-2024-2250

**Date** 5/14/2024

### CTS Recovery Value (CTS<sub>R</sub>), %

$$\frac{CTS_{avg}}{CTS_{cyl}} \times 100$$

**Where,**

CTS <sub>avg</sub>	<u>99.16</u>	= average of all CTS calibration gas readings, ppm
CTS <sub>cyl</sub>	<u>102</u>	= CTS bottle certified gas value, ppm
CTS <sub>R</sub>	<u>97.2%</u>	= CTS recovery value, %

### Spike Dilution Factor (DF), %

$$\frac{SF6_{spike} - SF6_{nat}}{SF6_{dir}} \times 100$$

**Where,**

SF6 <sub>dir</sub>	<u>9.709</u>	= average of direct tracer gas value readings
SF6 <sub>nat</sub>	<u>0.010</u>	= average of native tracer gas value readings
SF6 <sub>spike</sub>	<u>0.597</u>	= average of dynamic spike tracer gas value readings
DF	<u>6.1%</u>	= spike dilution factor, %

### Calculated Spike (Spike<sub>calc</sub>), ppm

$$(DF \times Analyte_{dir}) + (Analyte_{nat} \times (1 - DF))$$

**Where,**

DF	<u>6.1%</u>	= spike dilution factor, %
Analyte <sub>dir</sub>	<u>88.20</u>	= average of direct analyte gas values, ppm
Analyte <sub>nat</sub>	<u>1.23</u>	= average of native analyte gas values, ppm
Spike <sub>calc</sub>	<u>6.49</u>	= calculated spike, ppm value, ppm

### Spike Recovery Value (Spike<sub>R</sub>), %

$$\frac{Analyte_{spike}}{Spike_{calc}} \times 100$$

**Where,**

Spike <sub>calc</sub>	<u>6.49</u>	= calculated spike, ppm value, ppm
Analyte <sub>spike</sub>	<u>4.86</u>	= average of spiked analyte gas values, ppm
Spike <sub>R</sub>	<u>74.86%</u>	= spike recovery value, %



## Appendix B

## Emission Calculations

**Location** BASF Corporation - Freeport, TX

**Source** Incinerator IN-701 EPN 4-1-1

**Project No.** AST-2024-2250

Run Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/15/24	5/15/24	5/16/24	5/16/24	5/17/24	5/17/24	5/20/24	--
Start Time		9:13	14:02	7:06	11:40	7:00	11:38	10:55	--
Stop Time		13:21	18:07	11:10	15:45	11:05	15:43	15:00	--
<b>Input Data - Outlet</b>									
Moisture Fraction, dimensionless	BWS	0.214	0.211	0.220	0.222	0.214	0.213	0.221	0.216
Volumetric Flow Rate (M1-4), dscfm	Qs	45,172	43,842	43,612	43,261	42,308	42,922	43,505	43,517
<b>Calculated Data - Outlet</b>									
O <sub>2</sub> Concentration, % dry	C <sub>O<sub>2</sub></sub>	1.87	1.85	1.74	1.68	1.70	1.70	1.69	1.75
CO <sub>2</sub> Concentration, % dry	C <sub>CO<sub>2</sub></sub>	7.60	7.55	7.62	7.61	7.62	7.59	7.58	7.60
THC (as C <sub>3</sub> H <sub>8</sub> ) Concentration, ppmvd	C <sub>THC</sub>	6.91E-02	4.76E-02	1.02E-02	4.53E-03	5.63E-03	2.28E-03	1.33E-02	2.18E-02
THC (as C <sub>3</sub> H <sub>8</sub> ) Concentration, ppmvw	C <sub>THCW</sub>	5.43E-02	3.75E-02	7.95E-03	3.53E-03	4.42E-03	1.79E-03	1.04E-02	1.71E-02
THC (as C <sub>3</sub> H <sub>8</sub> ) Concentration, ppmvd @ 7 % O <sub>2</sub>	C <sub>THC@7</sub>	5.05E-02	3.47E-02	7.39E-03	3.28E-03	4.08E-03	1.65E-03	9.66E-03	1.59E-02
THC (as C <sub>3</sub> H <sub>8</sub> ) Emission Rate, lb/hr	ER <sub>THC</sub>	2.14E-02	1.43E-02	3.05E-03	1.35E-03	1.64E-03	6.72E-04	3.99E-03	6.64E-03
<b>FTIR Calculated Data</b>									
HCN - Outlet Concentration, ppmvd	C <sub>HCN</sub>	<u>0.337</u>	<u>0.450</u>	<u>0.307</u>	<u>0.376</u>	<u>0.347</u>	<u>0.336</u>	<u>0.740</u>	0.359
HCN - Outlet Concentration, ppmvw	C <sub>HCNw</sub>	<u>0.265</u>	<u>0.355</u>	<u>0.239</u>	<u>0.292</u>	<u>0.273</u>	<u>0.264</u>	<u>0.576</u>	0.282
HCN - Outlet Concentration, ppmvd @ 7 % O <sub>2</sub>	C <sub>HCN@7</sub>	<u>0.246</u>	<u>0.328</u>	<u>0.222</u>	<u>0.272</u>	<u>0.251</u>	<u>0.243</u>	<u>0.535</u>	0.261
HCN - Outlet Emission Rate, lb/hr	ER <sub>HCN</sub>	<u>0.0642</u>	<u>0.0831</u>	<u>0.0563</u>	<u>0.0685</u>	<u>0.0618</u>	<u>0.0607</u>	<u>0.136</u>	0.0658

Underlined results contained one or more minute data point averages below the minimum detection limit (MDL). The MDL was recorded for this data point and included in the run average. Underlined results are considered detection level limited (DLL) in accordance with the EPA ICR Enclosure.

# Emission Calculations

Location BASF Corporation - Freeport, TX  
Source Incinerator IN-701 EPN 4-1-1  
Project No. AST-2024-2250  
Parameter: PAH

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/15/24	5/15/24	5/16/24	5/16/24	5/17/24	5/17/24	5/20/24	--
Start Time		9:13	14:02	7:06	11:40	7:00	11:38	10:55	--
Stop Time		13:21	18:07	11:10	15:45	11:05	15:43	15:01	--
Input Data									
Standard Meter Volume, ft <sup>3</sup>	(Vmstd)	172.953	142.504	142.825	142.096	147.108	146.172	154.993	149.807
O <sub>2</sub> Concentration, % dry	(O <sub>2</sub> )	1.87	1.85	1.74	1.68	1.70	1.70	1.69	1.75
Emissions Calculations									
Naphthalene Concentration, ng/dscm	C <sub>10H<sub>8</sub></sub>	447	456	6,157	19,733	4,297	6,233	3,395	5,817
Naphthalene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>10H<sub>8</sub></sub> <sup>e</sup>	327	333	4,467	14,271	3,111	4,513	2,457	4,211
2-Methylnaphthalene Concentration, ng/dscm	C <sub>11H<sub>10</sub></sub>	157	152	3,462	10,289	1,714	336	449	2,366
2-Methylnaphthalene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>11H<sub>10</sub></sub> <sup>e</sup>	115	111	2,511	7,441	1,241	243	325	1,712
Acenaphthylene Concentration, ng/dscm	C <sub>12H<sub>8</sub></sub>	5.00	3.02	48.5	140	24.2	10.3	3.24	33.5
Acenaphthylene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>12H<sub>8</sub></sub> <sup>e</sup>	3.65	2.21	35.2	101	17.6	7.47	2.34	24.3
Acenaphthene Concentration, ng/dscm	C <sub>12H<sub>10</sub></sub>	17.5	25.5	344	790	28.3	19.9	9.36	176
Acenaphthene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>12H<sub>10</sub></sub> <sup>e</sup>	12.8	18.6	249	572	20.5	14.4	6.78	128
Fluorene Concentration, ng/dscm	C <sub>13H<sub>10</sub></sub>	47.4	58.2	1,714	5,343	314	43.5	26.0	1,078
Fluorene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>13H<sub>10</sub></sub> <sup>e</sup>	34.6	42.5	1,243	3,864	228	31.5	18.8	780
Phenanthrene Concentration, ng/dscm	C <sub>14H<sub>10</sub></sub>	212	273	3,165	11,333	1,803	353	142	2,469
Phenanthrene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>14H<sub>10</sub></sub> <sup>e</sup>	155	199	2,296	8,196	1,305	255	103	1,787
Anthracene Concentration, ng/dscm	C <sub>14H<sub>10</sub></sub>	9.21	13.5	596	1,958	154	14.5	5.33	393
Anthracene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>14H<sub>10</sub></sub> <sup>e</sup>	6.73	9.87	432	1,416	111	10.5	3.86	284
Fluoranthene Concentration, ng/dscm	C <sub>14H<sub>10</sub></sub>	34.1	19.2	135	748	92.2	24.9	14.3	153
Fluoranthene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>14H<sub>10</sub></sub> <sup>e</sup>	24.9	14.0	97.9	541	66.7	18.0	10.4	110
Pyrene Concentration, ng/dscm	C <sub>16H<sub>10</sub></sub>	50.8	20.3	226	1,543	113	22.3	8.11	283
Pyrene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>16H<sub>10</sub></sub> <sup>e</sup>	37.1	14.8	164	1,116	81.7	16.1	5.87	205
Benzo[a]anthracene Concentration, ng/dscm	C <sub>18H<sub>12</sub></sub>	0.743	0.803	91.7	1,086	56.4	15.1	0.684	179
Benzo[a]anthracene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>18H<sub>12</sub></sub> <sup>e</sup>	0.543	0.586	66.5	785	40.8	10.9	0.495	129
Chrysene Concentration, ng/dscm	C <sub>18H<sub>12</sub></sub>	9.09	5.13	142	1,747	206	116	141	338
Chrysene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>18H<sub>12</sub></sub> <sup>e</sup>	6.64	3.74	103	1,264	149	84.3	102	245
Benzo[b]fluoranthene Concentration, ng/dscm	C <sub>20H<sub>12</sub></sub>	3.25	1.17	12.3	298	44.9	16.3	5.15	54.5
Benzo[b]fluoranthene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>20H<sub>12</sub></sub> <sup>e</sup>	2.37	0.852	8.90	216	32.5	11.8	3.73	39.4
Benzo[k]fluoranthene Concentration, ng/dscm	C <sub>20H<sub>12</sub></sub>	0.772	0.337	3.24	72.1	0.720	7.85	0.982	12.3
Benzo[k]fluoranthene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>20H<sub>12</sub></sub> <sup>e</sup>	0.564	0.246	2.35	52.1	0.521	5.68	0.711	8.89
Benzo[e]pyrene Concentration, ng/dscm	C <sub>20H<sub>12</sub></sub>	14.1	3.05	22.6	522	90.3	30.0	7.88	98.5
Benzo[e]pyrene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>20H<sub>12</sub></sub> <sup>e</sup>	10.3	2.22	16.4	377	65.3	21.7	5.70	71.3
Benzo[a]pyrene Concentration, ng/dscm	C <sub>20H<sub>12</sub></sub>	0.952	0.639	8.36	233	0.720	8.53	2.73	36.4
Benzo[a]pyrene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>20H<sub>12</sub></sub> <sup>e</sup>	0.695	0.467	6.06	169	0.521	6.17	1.98	26.4
Perylene Concentration, ng/dscm	C <sub>20H<sub>12</sub></sub>	0.129	0.743	2.43	22.3	11.5	7.08	16.3	8.66
Perylene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>20H<sub>12</sub></sub> <sup>e</sup>	0.0941	0.542	1.76	16.2	8.36	5.12	11.8	6.27
Indeno[1,2,3-cd]pyrene Concentration, ng/dscm	C <sub>22H<sub>12</sub></sub>	6.86	1.34	6.11	22.3	41.3	12.1	27.3	16.8
Indeno[1,2,3-cd]pyrene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>22H<sub>12</sub></sub> <sup>e</sup>	5.01	0.978	4.43	16.2	29.9	8.75	19.8	12.1
Dibenz(a,h)anthracene Concentration, ng/dscm	C <sub>22H<sub>14</sub></sub>	0.216	0.520	2.79	43.7	27.6	12.5	0.684	12.6
Dibenz(a,h)anthracene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>22H<sub>14</sub></sub> <sup>e</sup>	0.158	0.380	2.03	31.6	20.0	9.06	0.495	9.11
Benzo[g,h,i]perylene Concentration, ng/dscm	C <sub>22H<sub>12</sub></sub>	23.5	4.76	8.43	94.7	16.2	20.2	17.8	26.5
Benzo[g,h,i]perylene Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>22H<sub>12</sub></sub> <sup>e</sup>	17.2	3.47	6.12	68.5	11.7	14.6	12.9	19.2
Summation									
Total PAH Concentrations, ng/dscm	C <sub>PAH</sub>	1,041	1,039	16,147	56,020	9,035	7,303	4,272	13,551
Total PAH Concentrations, ng/dscm @ 7% O <sub>2</sub>	C <sub>PAH</sub> <sup>e</sup>	760	758	11,714	40,514	6,541	5,287	3,091	9,809

Underlined value denotes that the value was below the MDL and is reported as the MDL. This is considered BDL in accordance with the ICR enclosure.

# Emission Calculations

Location BASF Corporation - Freeport, TX  
Source Incinerator IN-701 EPN 4-1-1  
Project No. AST-2024-2250  
Parameter: PAH

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/15/24	5/15/24	5/16/24	5/16/24	5/17/24	5/17/24	5/20/24	--
Start Time		9:13	14:02	7:06	11:40	7:00	11:38	10:55	--
Stop Time		13:21	18:07	11:10	15:45	11:05	15:43	15:01	--
Input Data									
Standard Meter Volume, ft <sup>3</sup>	(Vmstd)	172.953	142.504	142.825	142.096	147.108	146.172	154.993	149.807
Volumetric Flow Rate, dscfm	(Qv)	45.172	43.842	43.612	43.261	42.308	42.922	43.505	43.517
O2 Concentration, % dry	(O2)	1.87	1.85	1.74	1.68	1.70	1.70	1.69	1.75
Emissions Calculations									
Naphthalene Emission Rate, lb/hr	ERC1009	7.57E-05	7.49E-05	1.01E-03	3.20E-03	6.81E-04	1.00E-03	5.53E-04	9.42E-04
2-Methylnaphthalene Emission Rate, lb/hr	ERC11010	2.66E-05	2.50E-05	5.66E-04	1.67E-03	2.72E-04	5.40E-05	7.31E-05	3.83E-04
Acenaphthylene Emission Rate, lb/hr	ERC1208	8.46E-07	4.97E-07	7.92E-06	2.27E-05	3.84E-06	1.66E-06	5.27E-07	5.43E-06
Acenaphthene Emission Rate, lb/hr	ERC1209	2.95E-06	4.19E-06	5.61E-05	1.28E-04	4.49E-06	3.19E-06	1.53E-06	2.87E-05
Fluorene Emission Rate, lb/hr	ERC13010	8.02E-06	9.56E-06	2.80E-04	8.66E-04	4.98E-05	6.99E-06	4.23E-06	1.75E-04
Phenanthrene Emission Rate, lb/hr	ERC14010	3.59E-05	4.48E-05	5.17E-04	1.84E-03	2.86E-04	5.67E-05	2.32E-05	4.00E-04
Anthracene Emission Rate, lb/hr	ERC14010	1.56E-06	2.22E-06	9.73E-05	3.17E-04	2.43E-05	2.33E-06	8.69E-07	6.37E-05
Fluoranthene Emission Rate, lb/hr	ERC14010	5.77E-06	3.15E-06	2.21E-05	1.21E-04	1.46E-05	4.00E-06	2.33E-06	2.47E-05
Pyrene Emission Rate, lb/hr	ERC16010	8.60E-06	3.34E-06	3.70E-05	2.50E-04	1.79E-05	3.59E-06	1.32E-06	4.60E-05
Benzo[a]anthracene Emission Rate, lb/hr	ERC18012	1.26E-07	1.32E-07	1.50E-05	1.76E-04	8.94E-06	2.42E-06	1.11E-07	2.90E-05
Chrysene Emission Rate, lb/hr	ERC18012	1.54E-06	8.42E-07	2.33E-05	2.83E-04	3.27E-05	1.87E-05	2.29E-05	5.47E-05
Benzo[b]fluoranthene Emission Rate, lb/hr	ERC20012	5.49E-07	1.92E-07	2.00E-06	4.83E-05	7.11E-06	2.62E-06	8.39E-07	8.81E-06
Benzo[k]fluoranthene Emission Rate, lb/hr	ERC20012	1.31E-07	5.53E-08	5.29E-07	1.17E-05	1.14E-07	1.26E-06	1.60E-07	1.99E-06
Benzo[e]pyrene Emission Rate, lb/hr	ERC20012	2.39E-06	5.01E-07	3.70E-06	8.46E-05	1.43E-05	4.82E-06	1.28E-06	1.59E-05
Benzo[a]pyrene Emission Rate, lb/hr	ERC20012	1.61E-07	1.05E-07	1.37E-06	3.78E-05	1.14E-07	1.37E-06	4.46E-07	5.91E-06
Perylene Emission Rate, lb/hr	ERC20012	2.18E-08	1.22E-07	3.97E-07	3.62E-06	1.83E-06	1.14E-06	2.66E-06	1.40E-06
Indeno[1,2,3-cd]pyrene Emission Rate, lb/hr	ERC22012	1.16E-06	2.20E-07	9.98E-07	3.62E-06	6.54E-06	1.94E-06	4.46E-06	2.71E-06
Dibenz[a,h]anthracene Emission Rate, lb/hr	ERC22014	3.66E-08	8.55E-08	4.56E-07	7.09E-06	4.38E-06	2.01E-06	1.11E-07	2.02E-06
Benzo[g,h,i]perylene Emission Rate, lb/hr	ERC22012	3.97E-06	7.81E-07	1.38E-06	1.53E-05	2.56E-06	3.25E-06	2.90E-06	4.31E-06
Summation									
Total PAH, lb/hr	ERC20	1.76E-04	1.71E-04	0.00264	0.00908	0.00143	0.00117	6.96E-04	0.00220

Underlined value denotes that the value was below the MDL and is reported as the MDL. This is considered BDL in accordance with the ICR enclosure.

Location BASF Corporation - Freeport, TX

Source Incinerator IN-701 EPN 4-1-1

Project No. ASI-2024-2250

Parameter: PAH

	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7
Naphthalene Mass, ng	M <sub>C10H8</sub> 2,190	B	24,900	79,400	H	17,900	14,900
2-Methylanthracene Mass, ng	M <sub>C14H10</sub> 771	B	14,000	41,400	B	1,390	1,970
Acenaphthylene Mass, ng	M <sub>C12H8</sub> 24.5	JB	196	564	B	42.7	14.2
Acenaphthene Mass, ng	M <sub>C14H10</sub> 85.5	JB	1,390	3,180	HH	82.2	41.1
Fluorene Mass, ng	M <sub>C15H10</sub> 232	JB	6,930	21,500	B	180	114
Phenanthrene Mass, ng	M <sub>C15H10</sub> 1,040	B	12,800	45,600	B	1,460	624
Anthracene Mass, ng	M <sub>C14H10</sub> 45.1	JB	2,410	7,880	JB	60.0	23.4
Fluoranthene Mass, ng	M <sub>C15H10</sub> 167	JB	546	3,010	B	103	62.8
Pyrene Mass, ng	M <sub>C16H10</sub> 249	B	915	6,210	B	92.3	35.6
Benzo[a]anthracene Mass, ng	M <sub>C18H12</sub> 3.64	JB	371	4,370	B	62.3	3.00
Chrysene Mass, ng	M <sub>C18H12</sub> 44.5	JB	576	7,030	B	482	617
Benzo[b]fluoranthene Mass, ng	M <sub>C20H14</sub> 15.9	JB	49.60	1,200	JB	67.4	22.6
Benzo[k]fluoranthene Mass, ng	M <sub>C22H16</sub> 3.78	JB	13.1	290	JB	32.5	4.31
Benzo[e]pyrene Mass, ng	M <sub>C22H16</sub> 69.1	B	91.5	2,100	B	124	34.6
Benzo[a]pyrene Mass, ng	M <sub>C22H16</sub> 4.66	JB	33.8	938	H	35.3	12.0
Perylene Mass, ng	M <sub>C22H16</sub> 0.631	ND	9.82	89.9	ND	29.3	71.7
Indeno[1,2,3-cd]pyrene Mass, ng	M <sub>C24H18</sub> 33.6	JB	24.7	89.9	B	50.0	120
Dibenz[a,h]anthracene Mass, ng	M <sub>C26H18</sub> 1.06	JB	11.3	176	B	51.8	3.00
Benzo[ghi]perylene Mass, ng	M <sub>C26H18</sub> 115	B	34.1	381	B	83.6	78.2

See analytical report for flag descriptions.

Underlined value denotes that the value was below the MDL and is reported as the MDL. This is considered BDL in accordance with the ICR enclosure.

Location BASF Corporation - Freeport, TX  
Source Incinerator IN-701 EPN 4-1-1  
Project No. AST-2024-2250  
Parameter: PCB

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/15/24	5/15/24	5/16/24	5/16/24	5/17/24	5/17/24	5/20/24	--
Start Time		9:13	14:02	7:06	11:40	7:00	11:38	10:55	--
Stop Time		13:21	18:07	11:10	15:45	11:05	15:43	15:01	--
Input Data									
Standard Meter Volume, ft <sup>3</sup>	(Vmstd)	172.953	142.504	142.825	142.096	147.108	146.172	154.993	149.807
O <sub>2</sub> Concentration, % dry	(O <sub>2</sub> )	1.87	1.85	1.74	1.68	1.70	1.70	1.69	1.75
Emissions Calculations									
2,4'-DiCB (PCB-8) Concentration, ng/dscm	C <sub>8</sub>	0.239	0.335	0.546	1.40	0.346	0.207	0.129	0.458
2,4'-DiCB (PCB-8) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>8c</sub>	0.174	0.244	0.396	1.02	0.250	0.150	0.0936	0.332
2,2',5'-TrCB (PCB-18) Concentration, ng/dscm	C <sub>18</sub>	0.0735	0.0939	0.282	0.549	0.0979	0.0336	0.0149	0.164
2,2',5'-TrCB (PCB-18) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>18c</sub>	0.0537	0.0685	0.204	0.397	0.0709	0.0243	0.0107	0.119
2,4,4'-TrCB (PCB-28) Concentration, ng/dscm	C <sub>28</sub>	0.125	0.157	0.179	0.492	0.0595	0.0338	0.0253	0.153
2,4,4'-TrCB (PCB-28) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>28c</sub>	0.0910	0.115	0.130	0.356	0.0431	0.0245	0.0183	0.111
2,2',3,5'-TeCB (PCB-44) Concentration, ng/dscm	C <sub>44</sub>	0.435	0.667	0.623	1.88	0.528	0.399	0.224	0.679
2,2',3,5'-TeCB (PCB-44) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>44c</sub>	0.318	0.486	0.452	1.36	0.382	0.289	0.162	0.492
2,2',5,5'-TeCB (PCB-52) Concentration, ng/dscm	C <sub>52</sub>	0.111	0.137	0.159	0.574	0.0720	0.0297	0.150	0.176
2,2',5,5'-TeCB (PCB-52) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>52c</sub>	0.0813	0.100	0.115	0.415	0.0521	0.0215	0.109	0.128
2,3',4,4'-TeCB (PCB-66) Concentration, ng/dscm	C <sub>66</sub>	0.0290	0.0320	0.0435	0.301	0.144	0.145	0.137	0.119
2,3',4,4'-TeCB (PCB-66) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>66c</sub>	0.0212	0.0233	0.0316	0.217	0.104	0.105	0.0989	0.0860
3,3',4,4'-TeCB (PCB-77) Concentration, ng/dscm	C <sub>77</sub>	0.0191	0.0116	0.0297	0.242	0.151	0.152	0.144	0.107
3,3',4,4'-TeCB (PCB-77) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>77c</sub>	0.0139	0.00846	0.0215	0.175	0.109	0.110	0.104	0.0775
3,4,4',5'-TeCB (PCB-81) Concentration, ng/dscm	C <sub>81</sub>	0.0196	0.0238	0.119	1.19	0.115	0.116	0.109	0.242
3,4,4',5'-TeCB (PCB-81) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>81c</sub>	0.0143	0.0174	0.0861	0.863	0.0834	0.0840	0.0791	0.175
2,2',4,5',5'-PeCB (PCB-101) Concentration, ng/dscm	C <sub>101</sub>	0.0372	0.0458	0.109	0.316	0.0499	0.0167	0.0114	0.0837
2,2',4,5',5'-PeCB (PCB-101) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>101c</sub>	0.0271	0.0335	0.0793	0.228	0.0361	0.0121	0.00828	0.0607
2,3,3',4,4'-PeCB (PCB-105) Concentration, ng/dscm	C <sub>105</sub>	0.0208	0.00776	0.126	0.117	0.122	0.123	0.116	0.0905
2,3,3',4,4'-PeCB (PCB-105) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>105c</sub>	0.0152	0.00566	0.0915	0.0847	0.0886	0.0892	0.0841	0.0656
2,3,4,4',5'-PeCB (PCB-114) Concentration, ng/dscm	C <sub>114</sub>	0.0337	0.0409	0.204	2.05	0.198	0.199	0.188	0.416
2,3,4,4',5'-PeCB (PCB-114) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>114c</sub>	0.0246	0.0298	0.148	1.48	0.143	0.144	0.136	0.301
2,3',4,4',5'-PeCB (PCB-118) Concentration, ng/dscm	C <sub>118</sub>	0.0186	0.0152	0.226	0.251	0.220	0.221	0.208	0.166
2,3',4,4',5'-PeCB (PCB-118) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>118c</sub>	0.0136	0.0111	0.164	0.182	0.159	0.160	0.151	0.120
2',3,4,4',5'-PeCB (PCB-123) Concentration, ng/dscm	C <sub>123</sub>	0.0349	0.0424	0.211	2.12	0.205	0.207	0.195	0.431
2',3,4,4',5'-PeCB (PCB-123) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>123c</sub>	0.0255	0.0309	0.153	1.54	0.149	0.150	0.141	0.312
3,3',4,4',5'-PeCB (PCB-126) Concentration, ng/dscm	C <sub>126</sub>	0.0251	0.0305	0.152	1.53	0.148	0.149	0.140	0.310
3,3',4,4',5'-PeCB (PCB-126) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>126c</sub>	0.0183	0.0222	0.110	1.11	0.107	0.108	0.101	0.225
2,2',3,3',4,4'-HxCB (PCB-128) Concentration, ng/dscm	C <sub>128</sub>	0.00164	9.69E-04	0.00381	2.53	0.245	0.246	0.232	0.466
2,2',3,3',4,4'-HxCB (PCB-128) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>128c</sub>	0.00120	7.07E-04	0.00276	1.83	0.177	0.178	0.168	0.337
2,2',3,4,4',5'-HxCB (PCB-138) Concentration, ng/dscm	C <sub>138</sub>	0.0161	0.0118	0.0110	0.0803	0.0370	0.0172	0.0141	0.0268
2,2',3,4,4',5'-HxCB (PCB-138) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>138c</sub>	0.0117	0.00859	0.00798	0.0581	0.0268	0.0124	0.0102	0.0194
2,2',4,4',5,5'-HxCB (PCB-153) Concentration, ng/dscm	C <sub>153</sub>	0.0145	0.0135	0.0176	0.113	0.300	0.0153	0.0136	0.0697
2,2',4,4',5,5'-HxCB (PCB-153) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>153c</sub>	0.0106	0.00984	0.0128	0.0820	0.217	0.0111	0.00984	0.0505
2,3,3',4,4',5'-HxCB (PCB-156) Concentration, ng/dscm	C <sub>156</sub>	0.00239	0.00233	0.316	3.18	0.307	0.309	0.292	0.630
2,3,3',4,4',5'-HxCB (PCB-156) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>156c</sub>	0.00174	0.00170	0.230	2.30	0.222	0.224	0.211	0.456
2,3,3',4,4',5'-HxCB (PCB-157) Concentration, ng/dscm	C <sub>157</sub>	0.00239	0.00233	0.316	3.18	0.307	0.309	0.292	0.630
2,3,3',4,4',5'-HxCB (PCB-157) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>157c</sub>	0.00174	0.00170	0.230	2.30	0.222	0.224	0.211	0.456
2,3',4,4',5,5'-HxCB (PCB-167) Concentration, ng/dscm	C <sub>167</sub>	0.0368	0.0446	0.223	2.24	0.216	0.217	0.00128	0.425
2,3',4,4',5,5'-HxCB (PCB-167) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>167c</sub>	0.0268	0.0325	0.161	1.62	0.156	0.157	9.27E-04	0.308
3,3',4,4',5,5'-HxCB (PCB-169) Concentration, ng/dscm	C <sub>169</sub>	4.88E-04	9.14E-04	0.152	1.53	0.148	0.149	0.140	0.303
3,3',4,4',5,5'-HxCB (PCB-169) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>169c</sub>	3.56E-04	6.67E-04	0.110	1.11	0.107	0.108	0.101	0.219
2,2',3,3',4,4',5'-HpCB (PCB-170) Concentration, ng/dscm	C <sub>170</sub>	0.00214	0.0327	0.163	1.64	0.158	0.159	0.150	0.330
2,2',3,3',4,4',5'-HpCB (PCB-170) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>170c</sub>	0.00157	0.0239	0.118	1.19	0.115	0.115	0.109	0.238
2,2',3,4,4',5,5'-HpCB (PCB-180) Concentration, ng/dscm	C <sub>180</sub>	0.00466	0.00808	0.00167	2.53	0.00922	0.00254	0.00545	0.367
2,2',3,4,4',5,5'-HpCB (PCB-180) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>180c</sub>	0.00340	0.00589	0.00121	1.83	0.00667	0.00184	0.00394	0.265
2,2',3,4',5,5',6'-HpCB (PCB-187) Concentration, ng/dscm	C <sub>187</sub>	0.00566	0.00434	0.00356	1.57	0.0147	0.152	0.144	0.270
2,2',3,4',5,5',6'-HpCB (PCB-187) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>187c</sub>	0.00413	0.00316	0.00258	1.13	0.0107	0.110	0.104	0.195
2,3,3',4,4',5,5'-HpCB (PCB-189) Concentration, ng/dscm	C <sub>189</sub>	0.0300	0.0364	0.182	1.83	0.176	0.178	0.167	0.371
2,3,3',4,4',5,5'-HpCB (PCB-189) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>189c</sub>	0.0219	0.0266	0.132	1.32	0.128	0.129	0.121	0.268
2,2',3,3',4,4',5,6-OcCB (PCB-195) Concentration, ng/dscm	C <sub>195</sub>	0.0325	0.0394	0.197	1.98	0.191	0.192	0.181	0.401
2,2',3,3',4,4',5,6-OcCB (PCB-195) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>195c</sub>	0.0237	0.0288	0.143	1.43	0.138	0.139	0.131	0.290
2,2',3,3',4,4',5,5',6-NoCB (PCB-206) Concentration, ng/dscm	C <sub>206</sub>	0.0349	0.0424	0.211	2.12	0.205	0.207	0.195	0.431
2,2',3,3',4,4',5,5',6-NoCB (PCB-206) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>206c</sub>	0.0255	0.0309	0.153	1.54	0.149	0.150	0.141	0.312
2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209) Concentration, ng/dscm	C <sub>209</sub>	0.0282	1.96E-04	0.171	1.71	0.166	0.167	0.157	0.343
2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209) Concentration, ng/dscm @ 7% O <sub>2</sub>	C <sub>209c</sub>	0.0206	1.43E-04	0.124	1.24	0.120	0.121	0.114	0.248
Summation									
Total PCB Concentrations, ng/dscm	C <sub>PCB</sub>	1.43	1.88	4.98	39.3	4.94	4.35	3.78	8.66
Total PCB Concentrations, ng/dscm @ 7% O <sub>2</sub>	C <sub>PCBc</sub>	1.05	1.37	3.61	28.4	3.57	3.15	2.73	6.27

Underlined value denotes that the value was below the MDL and is reported as the MDL. This is considered BDL in accordance with the ICR enclosure.

# Emission Calculations

Location BASF Corporation - Freeport, TX  
Source Incinerator IN-701 EPN 4-1-1  
Project No. AST-2024-2250  
Parameter: PCB

Trap Set Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/15/24	5/15/24	5/16/24	5/16/24	5/17/24	5/17/24	5/20/24	--
Start Time		9:13	14:02	7:06	11:40	7:00	11:38	10:55	--
Stop Time		13:21	18:07	11:10	15:45	11:05	15:43	15:01	--
Input Data									
Standard Meter Volume, ft <sup>3</sup>	(Vmstd)	172.953	142.504	142.825	142.096	147.108	146.172	154.993	149.807
Volumetric Flow Rate, dscfm	(Qv)	45.172	43.842	43.612	43.261	42.308	42.922	43.505	43.517
O2 Concentration, % dry	(O <sub>2</sub> )	1.87	1.85	1.74	1.68	1.70	1.70	1.69	1.75
Emissions Calculations									
2,4'-DiCB (PCB-8) Emission Rate, lb/hr	ER <sub>8</sub>	4.04E-08	5.49E-08	8.93E-08	2.28E-07	5.48E-08	3.33E-08	2.11E-08	7.45E-08
2,2',5'-TrCB (PCB-18) Emission Rate, lb/hr	ER <sub>18</sub>	1.24E-08	1.54E-08	4.60E-08	8.90E-08	1.55E-08	5.40E-09	2.42E-09	2.66E-08
2,4,4'-TrCB (PCB-28) Emission Rate, lb/hr	ER <sub>28</sub>	2.11E-08	2.58E-08	2.93E-08	7.97E-08	9.44E-09	5.44E-09	4.12E-09	2.50E-08
2,2',3,5'-TeCB (PCB-44) Emission Rate, lb/hr	ER <sub>44</sub>	7.36E-08	1.09E-07	1.02E-07	3.04E-07	8.37E-08	6.41E-08	3.65E-08	1.10E-07
2,2',5,5'-TeCB (PCB-52) Emission Rate, lb/hr	ER <sub>52</sub>	1.88E-08	2.25E-08	2.60E-08	9.30E-08	1.14E-08	4.78E-09	2.45E-08	2.87E-08
2,3',4,4'-TeCB (PCB-66) Emission Rate, lb/hr	ER <sub>66</sub>	4.91E-09	5.25E-09	7.11E-09	4.87E-08	2.28E-08	2.33E-08	2.23E-08	1.92E-08
3,3',4,4'-TeCB (PCB-77) Emission Rate, lb/hr	ER <sub>77</sub>	3.22E-09	1.90E-09	4.85E-09	3.93E-08	2.40E-08	2.45E-08	2.34E-08	1.73E-08
3,4,4',5'-TeCB (PCB-81) Emission Rate, lb/hr	ER <sub>81</sub>	3.32E-09	3.91E-09	1.94E-08	1.93E-07	1.83E-08	1.86E-08	1.78E-08	3.92E-08
2,2',4,5,5'-PeCB (PCB-101) Emission Rate, lb/hr	ER <sub>101</sub>	6.29E-09	7.53E-09	1.79E-08	5.11E-08	7.91E-09	2.68E-09	1.86E-09	1.36E-08
2,3,3',4,4'-PeCB (PCB-105) Emission Rate, lb/hr	ER <sub>105</sub>	3.52E-09	1.27E-09	2.06E-08	1.90E-08	1.94E-08	1.98E-08	1.89E-08	1.46E-08
2,3,4,4',5'-PeCB (PCB-114) Emission Rate, lb/hr	ER <sub>114</sub>	5.70E-09	6.72E-09	3.33E-08	3.32E-07	3.14E-08	3.20E-08	3.06E-08	6.74E-08
2,3',4,4',5'-PeCB (PCB-118) Emission Rate, lb/hr	ER <sub>118</sub>	3.15E-09	2.50E-09	3.70E-08	4.07E-08	3.48E-08	3.55E-08	3.40E-08	2.68E-08
2,3,4,4',5'-PeCB (PCB-123) Emission Rate, lb/hr	ER <sub>123</sub>	5.91E-09	6.96E-09	3.45E-08	3.44E-07	3.25E-08	3.32E-08	3.17E-08	6.99E-08
3,3',4,4',5'-PeCB (PCB-126) Emission Rate, lb/hr	ER <sub>126</sub>	4.25E-09	5.01E-09	2.48E-08	2.48E-07	2.34E-08	2.39E-08	2.28E-08	5.03E-08
2,2',3,3',4,4'-HxCB (PCB-128) Emission Rate, lb/hr	ER <sub>128</sub>	2.77E-10	1.59E-10	6.22E-10	4.11E-07	3.88E-08	3.96E-08	3.79E-08	7.55E-08
2,2',3,4,4',5'-HxCB (PCB-138) Emission Rate, lb/hr	ER <sub>138</sub>	2.72E-09	1.93E-09	1.80E-09	1.30E-08	5.86E-09	2.76E-09	2.31E-09	4.34E-09
2,2',4,4',5,5'-HxCB (PCB-153) Emission Rate, lb/hr	ER <sub>153</sub>	2.45E-09	2.21E-09	2.88E-09	1.84E-08	4.76E-08	2.45E-09	2.22E-09	1.12E-08
2,3,3',4,4',5'-HxCB (PCB-156) Emission Rate, lb/hr	ER <sub>156</sub>	4.04E-10	3.83E-10	5.17E-08	5.16E-07	4.87E-08	4.97E-08	4.75E-08	1.02E-07
2,3,3',4,4',5'-HxCB (PCB-157) Emission Rate, lb/hr	ER <sub>157</sub>	4.04E-10	3.83E-10	5.17E-08	5.16E-07	4.87E-08	4.97E-08	4.75E-08	1.02E-07
2,3',4,4',5,5'-HxCB (PCB-167) Emission Rate, lb/hr	ER <sub>167</sub>	6.22E-09	7.33E-09	3.64E-08	3.62E-07	3.42E-08	3.50E-08	2.09E-10	6.88E-08
3,3',4,4',5,5'-HxCB (PCB-169) Emission Rate, lb/hr	ER <sub>169</sub>	8.26E-11	1.50E-10	2.48E-08	2.48E-07	2.34E-08	2.39E-08	2.28E-08	4.90E-08
2,2',3,3',4,4',5'-HpCB (PCB-170) Emission Rate, lb/hr	ER <sub>170</sub>	3.63E-10	5.37E-09	2.67E-08	2.66E-07	2.51E-08	2.56E-08	2.45E-08	5.34E-08
2,2',3,4,4',5,5'-HpCB (PCB-180) Emission Rate, lb/hr	ER <sub>180</sub>	7.88E-10	1.33E-09	2.72E-10	4.11E-07	1.46E-09	4.08E-10	8.87E-10	5.94E-08
2,2',3,4',5,5',6'-HpCB (PCB-187) Emission Rate, lb/hr	ER <sub>187</sub>	9.57E-10	7.12E-10	5.82E-10	2.54E-07	2.34E-09	2.45E-08	2.34E-08	4.37E-08
2,3,3',4,4',5,5'-HpCB (PCB-189) Emission Rate, lb/hr	ER <sub>189</sub>	5.08E-09	5.98E-09	2.97E-08	2.96E-07	2.80E-08	2.86E-08	2.73E-08	6.01E-08
2,2',3,3',4,4',5,6-OcCB (PCB-195) Emission Rate, lb/hr	ER <sub>195</sub>	5.49E-09	6.47E-09	3.21E-08	3.20E-07	3.02E-08	3.09E-08	2.95E-08	6.50E-08
2,2',3,3',4,4',5,5',6-NoCB (PCB-206) Emission Rate, lb/hr	ER <sub>206</sub>	5.91E-09	6.96E-09	3.45E-08	3.44E-07	3.25E-08	3.32E-08	3.17E-08	6.99E-08
2,2',3,3',4,4',5,5',6,6'-DeCB (PCB-209) Emission Rate, lb/hr	ER <sub>209</sub>	4.77E-09	3.21E-11	2.79E-08	2.78E-07	2.63E-08	2.68E-08	2.56E-08	5.56E-08
Summation									
Total PCB Emission Rate, lb/hr	ER <sub>PCB</sub>	2.43E-07	3.09E-07	8.13E-07	6.36E-06	7.83E-07	7.00E-07	6.16E-07	1.40E-06

Underlined value denotes that the value was below the MDL and is reported as the MDL. This is considered BDL in accordance with the ICR enclosure.

Location BASF Corporation - Freeport, TX

Source Incinerator IN-701 EPN 4-1-1

Project No. AST-2024-2250

Parameter: PCB

	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7
M <sub>1</sub> 2,4'-DiCB (PCB-8) Mass, ng	1.17	1.35	2.21	5.65	1.44	0.857	0.568
M <sub>2</sub> 2,2'-5-TrCB (PCB-18) Mass, ng	0.360	0.379	1.14	2.21	0.408	0.139	0.0652
M <sub>3</sub> 2,4,4'-TrCB (PCB-28) Mass, ng	0.610	0.635	0.725	1.98	0.248	J q C20 B	J s q C B
M <sub>4</sub> 2,2',3,5'-TeCB (PCB-44) Mass, ng	2.13	2.69	2.52	7.55	2.20	J q C	J q C20 B
M <sub>5</sub> 2,2',5,5'-TeCB (PCB-52) Mass, ng	0.545	0.554	0.643	2.31	0.300	J q	J q
M <sub>6</sub> 2,3',4,4'-TeCB (PCB-66) Mass, ng	0.142	0.129	0.176	1.21	0.600	ND	ND
M <sub>7</sub> 3,3',4,4'-TeCB (PCB-77) Mass, ng	0.0933	J	0.120	J q	0.630	ND	ND
M <sub>8</sub> 3,4,4',5'-TeCB (PCB-81) Mass, ng	0.0960	J q	J	0.975	J q	ND	ND
M <sub>9</sub> 2,2',4,5'-PcCB (PCB-101) Mass, ng	0.182	0.185	0.480	4.80	0.480	ND	ND
M <sub>10</sub> 2,2',3,4,4'-PcCB (PCB-105) Mass, ng	0.102	0.0313	0.442	1.27	0.208	J q C90	J q C90
M <sub>11</sub> 2,3,4,4',5'-PcCB (PCB-114) Mass, ng	0.165	J	0.510	0.471	0.510	ND	ND
M <sub>12</sub> 2,3,4,4',5'-PcCB (PCB-118) Mass, ng	0.0913	ND	0.825	8.25	0.525	ND	ND
M <sub>13</sub> 2,3,4,4',5'-PcCB (PCB-123) Mass, ng	0.171	0.0615	0.915	1.01	0.915	ND	ND
M <sub>14</sub> 3,3',4,4',5'-PcCB (PCB-126) Mass, ng	0.123	0.171	0.855	8.55	0.855	ND	ND
M <sub>15</sub> 2,2',3,3',4',4'-HxCB (PCB-128) Mass, ng	0.00802	0.123	0.615	6.15	0.615	ND	ND
M <sub>16</sub> 2,2',3,3',4',4',5'-HxCB (PCB-128) Mass, ng	0.0787	0.00391	0.0154	10.2	1.02	ND C	ND C
M <sub>17</sub> 2,2',3,3',4',4',5'-HxCB (PCB-153) Mass, ng	0.0710	J q C	0.0445	0.323	J q C129 B	J q C129 B	J q C129 B
M <sub>18</sub> 2,2',4,4',5'-HxCB (PCB-153) Mass, ng	0.0117	0.0544	0.0713	0.456	1.25	J q C	J q C
M <sub>19</sub> 2,3,3',4',4',5'-HxCB (PCB-156) Mass, ng	0.0117	0.00940	1.28	12.8	1.28	ND C	ND C
M <sub>20</sub> 2,3,3',4',4',5'-HxCB (PCB-157) Mass, ng	0.180	J q C156	ND	ND	ND	ND C	ND C
M <sub>21</sub> 2,3,4,4',5'-HxCB (PCB-167) Mass, ng	0.00239	0.180	0.200	2.00	0.200	ND	ND
M <sub>22</sub> 2,2',3,3',4',4',5'-HxCB (PCB-169) Mass, ng	0.0105	0.00369	0.615	6.15	0.615	ND	ND
M <sub>23</sub> 2,2',3,3',4',4',5'-HxCB (PCB-170) Mass, ng	0.0228	0.132	0.660	6.6	0.660	ND	ND
M <sub>24</sub> 2,2',3,4',4',5',5'-HpCB (PCB-180) Mass, ng	0.0277	0.0326	0.00674	10.2	0.0384	J q C B	J q C B
M <sub>25</sub> 2,2',3,4',4',5',5'-HpCB (PCB-187) Mass, ng	0.147	0.0175	J q	6.30	0.0614	J q	ND
M <sub>26</sub> 2,2',3,3',4',4',5',5'-HpCB (PCB-189) Mass, ng	0.159	0.147	0.735	7.35	0.735	ND	ND
M <sub>27</sub> 2,2',3,3',4',4',5',5'-HpCB (PCB-195) Mass, ng	0.171	0.159	0.795	7.95	0.795	ND	ND
M <sub>28</sub> 2,2',3,3',4',4',5',5',6'-NoCB (PCB-195) Mass, ng	0.171	0.171	0.855	8.55	0.855	ND	ND
M <sub>29</sub> 2,2',3,3',4',4',5',5',6'-NoCB (PCB-206) Mass, ng	0.138	0.00789	0.690	6.90	0.690	ND	ND
M <sub>30</sub> 2,2',3,3',4',4',5',5',6'-DcCB (PCB-209) Mass, ng	0.138	0.00789	0.690	6.90	0.690	ND	ND

See analytical report for flag descriptions.

Underlined value denotes that the value was below the MDL and is reported as the MDL. This is considered BDL in accordance with the ICR enclosure.



## Appendix C

## Emission Calculations

Location **BASF Corporation - Freeport, TX**

Source **Incinerator IN-701 EPN 4-1-1**

Project No. **AST-2024-2250**

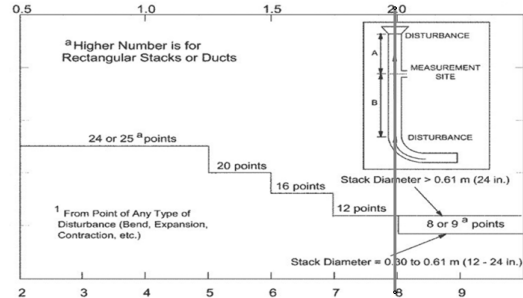
Parameters **PCB, PAH**

Run Number		Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date		5/15/24	5/15/24	5/16/24	5/16/24	5/17/24	5/17/24	5/20/24	--
Start Time		9:13	14:02	7:06	11:40	7:00	11:38	10:55	--
Stop Time		13:21	18:07	11:10	15:45	11:05	15:43	15:01	--
Run Time, min	( $\theta$ )	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
<b>INPUT DATA</b>									
Barometric Pressure, in. Hg	(Pb)	29.81	29.76	29.76	29.76	29.82	29.82	29.83	29.79
Meter Correction Factor	(Y)	1.014	1.014	1.014	1.014	1.014	1.014	1.014	1.014
Orifice Calibration Value	( $\Delta H @$ )	1.884	1.884	1.884	1.884	1.884	1.884	1.884	1.884
Meter Volume, ft <sup>3</sup>	(Vm)	176.399	145.525	145.395	144.669	149.170	150.100	159.467	152.961
Meter Temperature, °F	(Tm)	86.5	85.4	83.7	83.8	83.0	89.8	91.2	86.2
Meter Temperature, °R	(Tm)	546.1	545.1	543.4	543.4	542.7	549.4	550.9	545.9
Meter Orifice Pressure, in. WC	( $\Delta H$ )	1.802	1.198	1.215	1.202	1.461	1.348	1.502	1.390
Volume H <sub>2</sub> O Collected, mL	(Vlc)	996.8	805.8	855.6	857.9	850.4	839.0	930.2	876.5
Nozzle Diameter, in	(Dn)	0.331	0.310	0.310	0.310	0.320	0.320	0.320	0.317
Area of Nozzle, ft <sup>2</sup>	(An)	0.0006	0.0005	0.0005	0.0005	0.0006	0.0006	0.0006	0.0005
<b>ISOKINETIC DATA</b>									
Standard Meter Volume, ft <sup>3</sup>	(Vmstd)	172.953	142.504	142.825	142.096	147.108	146.172	154.993	149.807
Standard Water Volume, ft <sup>3</sup>	(Vwstd)	47.009	38.002	40.350	40.459	40.105	39.567	43.868	41.337
Moisture Fraction Measured	(BWSmsd)	0.214	0.211	0.220	0.222	0.214	0.213	0.221	0.216
Moisture Fraction @ Saturation	(BWSsat)	119.397	118.376	118.440	118.168	116.600	116.647	117.874	117.929
Moisture Fraction	(BWS)	0.214	0.211	0.220	0.222	0.214	0.213	0.221	0.216
Meter Pressure, in Hg	(Pm)	29.94	29.85	29.85	29.85	29.93	29.92	29.94	29.90
Volume at Nozzle, ft <sup>3</sup>	(Vn)	460.010	377.587	383.192	381.771	390.124	387.075	414.887	399.24
Isokinetic Sampling Rate, (%)	(I)	102.8	99.5	100.2	100.5	99.9	97.8	102.3	100.4
DGM Calibration Check Value, (+/- 5%)	(Y <sub>gc</sub> )	0.4	1.5	0.9	0.9	0.1	-1.4	-1.0	0.2

Location BASF Corporation - Freeport, TX  
Source Incinerator IN-701 EPN 4-1-1  
Project No. AST-2024-2250  
Date: 05/14/24

**Stack Parameters**

Duct Orientation: Vertical  
Duct Design: Circular  
Distance from Far Wall to Outside of Port: 91.54 in  
Nipple Length: 7.50 in  
Depth of Duct: 84.04 in  
Cross Sectional Area of Duct: 38.52 ft<sup>2</sup>  
No. of Test Ports: 2  
Distance A: 62.0 ft  
Distance A Duct Diameters: 8.9 (must be ≥ 0.5)  
Distance B: 55.5 ft  
Distance B Duct Diameters: 7.9 (must be ≥ 2)  
Minimum Number of Traverse Points: 12  
Actual Number of Traverse Points: 12  
Number of Readings per Point: 4  
Measurer (Initial and Date): LAD 5/14/24  
Reviewer (Initial and Date): JAS 5/14/24

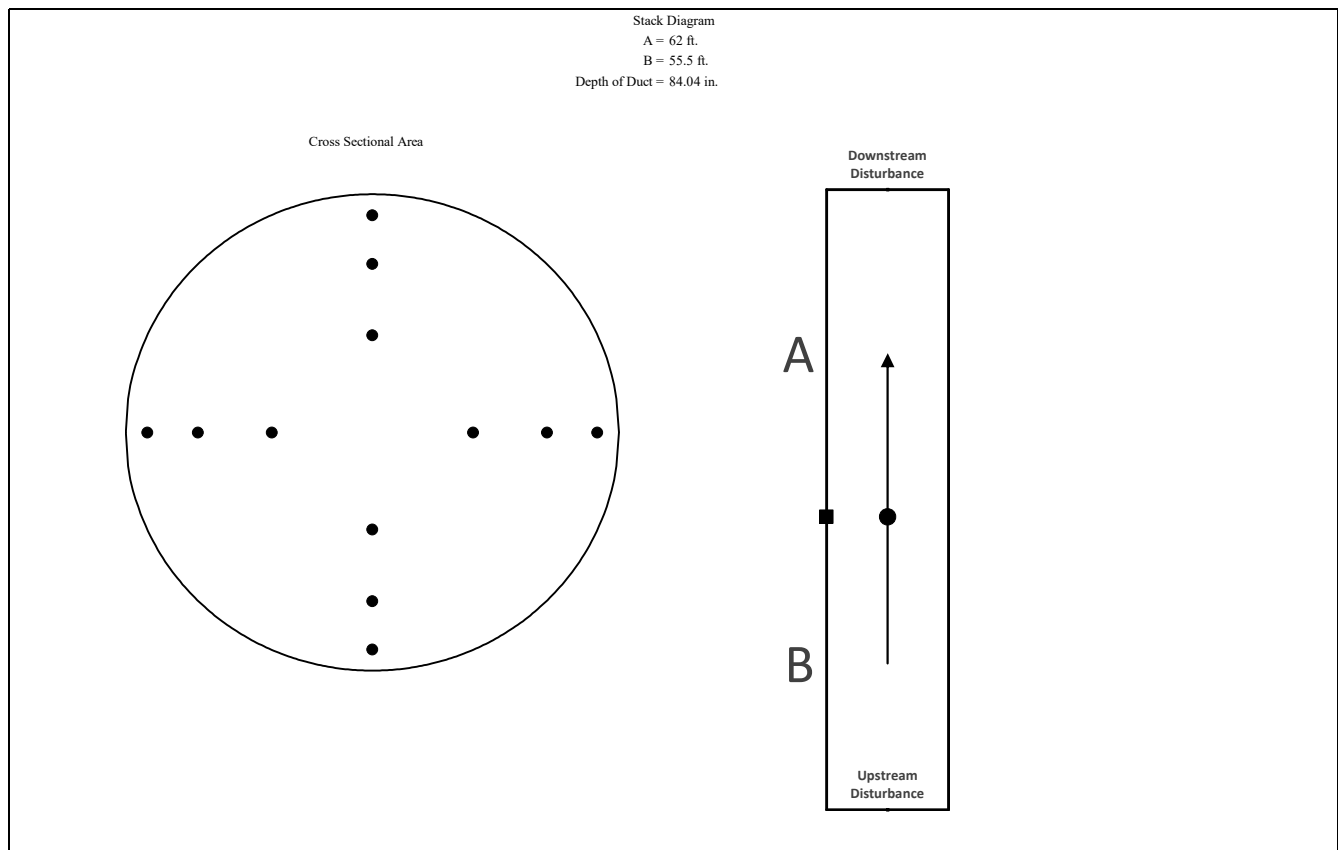


**CIRCULAR DUCT**

LOCATION OF TRAVERSE POINTS											
Number of traverse points on a diameter											
	2	3	4	5	6	7	8	9	10	11	12
1	14.6	--	6.7	--	4.4	--	3.2	--	2.6	--	2.1
2	85.4	--	25.0	--	14.6	--	10.5	--	8.2	--	6.7
3	--	--	75.0	--	29.6	--	19.4	--	14.6	--	11.8
4	--	--	93.3	--	70.4	--	32.3	--	22.6	--	17.7
5	--	--	--	--	85.4	--	67.7	--	34.2	--	25.0
6	--	--	--	--	95.6	--	80.6	--	65.8	--	35.6
7	--	--	--	--	--	--	89.5	--	77.4	--	64.4
8	--	--	--	--	--	--	96.8	--	85.4	--	75.0
9	--	--	--	--	--	--	--	--	91.8	--	82.3
10	--	--	--	--	--	--	--	--	97.4	--	88.2
11	--	--	--	--	--	--	--	--	--	--	93.3
12	--	--	--	--	--	--	--	--	--	--	97.9

\*Percent of stack diameter from inside wall to traverse point.

Traverse Point	% of Diameter	Distance from inside wall	Distance from outside of port
1	4.4	3.70	11 3/16
2	14.6	12.27	19 3/4
3	29.6	24.88	32 3/8
4	70.4	59.16	66 11/16
5	85.4	71.77	79 1/4
6	95.6	80.34	87 13/16
7	--	--	--
8	--	--	--
9	--	--	--
10	--	--	--
11	--	--	--
12	--	--	--



## Cyclonic Flow Check

**Location** BASF Corporation - Freeport, TX  
**Source** Incinerator IN-701 EPN 4-1-1  
**Project No.** AST-2024-2250  
**Date** 05/15/24

Sample Point	Angle ( $\Delta P=0$ )
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
Average	0

## Emission Calculations

Location **BASF Corporation - Freeport, TX**  
Source **Incinerator IN-701 EPN 4-1-1**  
Project No. **AST-2024-2250**  
Parameters **PCB, PAH**

Run Number	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Average
Date	5/15/24	5/15/24	5/16/24	5/16/24	5/17/24	5/17/24	5/20/24	--
Start Time	9:13	14:02	7:06	11:40	7:00	11:38	10:55	--
Stop Time	13:21	18:07	11:10	15:45	11:05	15:43	15:01	--
Run Time, min	240.0	240.0	240.0	240.0	240.0	240.0	240.0	240.0
<b>VELOCITY HEAD, in. WC</b>								
Point 1	0.37	0.39	0.41	0.36	0.37	0.35	0.37	0.37
Point 2	0.34	0.38	0.38	0.37	0.37	0.34	0.37	0.36
Point 3	0.41	0.37	0.37	0.36	0.43	0.42	0.37	0.39
Point 4	0.41	0.37	0.36	0.38	0.37	0.39	0.40	0.38
Point 5	0.41	0.35	0.36	0.36	0.39	0.39	0.37	0.38
Point 6	0.40	0.36	0.38	0.37	0.41	0.37	0.36	0.38
Point 7	0.41	0.39	0.38	0.40	0.37	0.37	0.36	0.38
Point 8	0.40	0.36	0.44	0.38	0.38	0.40	0.37	0.39
Point 9	0.40	0.37	0.40	0.36	0.41	0.40	0.38	0.39
Point 10	0.40	0.37	0.37	0.38	0.37	0.37	0.36	0.37
Point 11	0.40	0.35	0.38	0.38	0.42	0.37	0.37	0.38
Point 12	0.40	0.36	0.35	0.37	0.37	0.36	0.37	0.37
Point 13	0.40	0.38	0.37	0.37	0.23	0.29	0.35	0.34
Point 14	0.39	0.34	0.38	0.37	0.22	0.39	0.37	0.35
Point 15	0.39	0.37	0.38	0.36	0.23	0.39	0.35	0.35
Point 16	0.40	0.37	0.35	0.35	0.37	0.36	0.35	0.36
Point 17	0.40	0.39	0.36	0.36	0.39	0.38	0.37	0.38
Point 18	0.37	0.37	0.38	0.40	0.40	0.35	0.38	0.38
Point 19	0.38	0.37	0.38	0.40	0.31	0.37	0.38	0.37
Point 20	0.40	0.38	0.37	0.36	0.29	0.36	0.40	0.37
Point 21	0.37	0.36	0.39	0.35	0.30	0.36	0.36	0.36
Point 22	0.38	0.39	0.43	0.34	0.30	0.37	0.36	0.37
Point 23	0.39	0.36	0.37	0.40	0.31	0.37	0.37	0.37
Point 24	0.40	0.36	0.39	0.36	0.28	0.38	0.41	0.37
Point 25	0.40	0.34	0.37	0.35	0.37	0.40	0.37	0.37
Point 26	0.40	0.37	0.35	0.37	0.40	0.36	0.38	0.38
Point 27	0.39	0.37	0.37	0.37	0.36	0.40	0.37	0.37
Point 28	0.38	0.37	0.37	0.38	0.38	0.37	0.36	0.37
Point 29	0.40	0.36	0.34	0.36	0.36	0.36	0.38	0.36
Point 30	0.39	0.39	0.33	0.36	0.37	0.41	0.38	0.38
Point 31	0.39	0.38	0.39	0.34	0.38	0.38	0.39	0.38
Point 32	0.41	0.37	0.36	0.35	0.41	0.37	0.38	0.38
Point 33	0.43	0.40	0.36	0.36	0.37	0.36	0.37	0.38
Point 34	0.40	0.36	0.40	0.36	0.38	0.40	0.41	0.39
Point 35	0.39	0.39	0.36	0.37	0.41	0.38	0.36	0.38
Point 36	0.40	0.34	0.35	0.38	0.38	0.38	0.39	0.37
Point 37	0.38	0.35	0.36	0.35	0.38	0.30	0.37	0.36
Point 38	0.38	0.34	0.43	0.36	0.38	0.29	0.37	0.36
Point 39	0.37	0.38	0.36	0.36	0.20	0.32	0.36	0.34
Point 40	0.42	0.37	0.37	0.36	0.20	0.31	0.36	0.34
Point 41	0.43	0.38	0.37	0.37	0.20	0.31	0.36	0.34
Point 42	0.41	0.38	0.37	0.37	0.20	0.32	0.36	0.34
Point 43	0.39	0.39	0.36	0.35	0.42	0.32	0.37	0.37
Point 44	0.38	0.36	0.40	0.37	0.42	0.36	0.36	0.38
Point 45	0.39	0.43	0.35	0.39	0.40	0.28	0.37	0.37
Point 46	0.42	0.36	0.38	0.37	0.43	0.28	0.37	0.37
Point 47	0.43	0.39	0.41	0.39	0.35	0.27	0.36	0.37
Point 48	0.38	0.35	0.36	0.41	0.35	0.27	0.36	0.35
<b>CALCULATED DATA</b>								
Square Root of $\Delta P$ , (in. WC) <sup>1/2</sup>	( $\Delta P$ )	0.629	0.608	0.611	0.607	0.588	0.596	0.607
Pitot Tube Coefficient	(Cp)	0.826	0.826	0.826	0.826	0.826	0.826	0.826
Barometric Pressure, in. Hg	(Pb)	29.81	29.76	29.76	29.76	29.82	29.82	29.79
Static Pressure, in. WC	(Pg)	-0.75	-0.75	-0.75	-0.75	-0.77	-0.77	-0.76
Stack Pressure, in. Hg	(Ps)	29.75	29.70	29.70	29.70	29.76	29.77	29.74
Stack Cross-sectional Area, ft <sup>2</sup>	(As)	38.52	38.52	38.52	38.52	38.52	38.52	38.52
Temperature, °F	(Ts)	638.2	636.6	636.7	636.4	634.6	634.7	636.2
Temperature, °R	(Ts)	1097.9	1096.3	1096.4	1096.0	1094.3	1094.3	1095.9
Moisture Fraction Measured	(BWSmsd)	0.214	0.211	0.220	0.222	0.214	0.213	0.221
Moisture Fraction @ Saturation	(BWSsat)	119.397	118.376	118.440	118.168	116.600	116.647	117.874
Moisture Fraction	(BWS)	0.214	0.211	0.220	0.222	0.214	0.213	0.221
O <sub>2</sub> Concentration, %	(O <sub>2</sub> )	1.87	1.85	1.74	1.68	1.70	1.70	1.69
CO <sub>2</sub> Concentration, %	(CO <sub>2</sub> )	7.60	7.55	7.62	7.61	7.62	7.59	7.60
Molecular Weight, lb/lb-mole (dry)	(Md)	29.29	29.28	29.29	29.28	29.29	29.28	29.29
Molecular Weight, lb/lb-mole (wet)	(Ms)	26.88	26.91	26.81	26.79	26.87	26.88	26.85
Velocity, ft/sec	(Vs)	52.0	50.3	50.6	50.3	48.6	49.2	50.4
<b>VOLUMETRIC FLOW RATE</b>								
At Stack Conditions, acfm	(Qa)	120,194	116,212	117,057	116,280	112,246	113,708	116,029
At Standard Conditions, scfm	(Qsw)	57,450	55,533	55,933	55,579	53,843	54,541	55,528
At Standard Conditions, dscfm	(Qs)	45,172	43,842	43,612	43,261	42,308	42,922	43,505

Location **BASF Corporation - Freeport, TX**

Source **Incinerator IN-701 EPN 4-1-1**

Project No. **AST-2024-2250**

Parameters **PCB, PAH**

Analysis **Gravimetric**

<b>Run 1</b>	<b>Date:</b> 5/15/24						
<b>Impinger No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>Total</b>
<b>Contents</b>	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
<b>Initial Mass, g</b>	327.9	522.7	742.6	737.4	620.0	975.0	3925.6
<b>Final Mass, g</b>	330.1	1203.5	937.6	798.4	628.1	1024.7	4922.4
<b>Gain</b>	2.2	680.8	195.0	61.0	8.1	49.7	996.8
<b>Run 2</b>	<b>Date:</b> 5/15/24						
<b>Impinger No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>Total</b>
<b>Contents</b>	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
<b>Initial Mass, g</b>	293.7	503.8	697.0	746.9	631.3	995.0	3867.7
<b>Final Mass, g</b>	297.4	1139.7	813.7	746.9	636.7	1039.1	4673.5
<b>Gain</b>	3.7	635.9	116.7	0.0	5.4	44.1	805.8
<b>Run 3</b>	<b>Date:</b> 5/16/24						
<b>Impinger No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>Total</b>
<b>Contents</b>	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
<b>Initial Mass, g</b>	290.6	527.3	748.8	726.8	623.0	957.4	3873.9
<b>Final Mass, g</b>	309.4	1215.7	847.6	727.1	628.8	1000.9	4729.5
<b>Gain</b>	18.8	688.4	98.8	0.3	5.8	43.5	855.6
<b>Run 4</b>	<b>Date:</b> 5/16/24						
<b>Impinger No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>Total</b>
<b>Contents</b>	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
<b>Initial Mass, g</b>	295.2	505.0	661.3	714.2	633.5	992.9	3802.1
<b>Final Mass, g</b>	312.2	1169.4	783.7	714.8	634.9	1045.0	4660.0
<b>Gain</b>	17.0	664.4	122.4	0.6	1.4	52.1	857.9
<b>Run 5</b>	<b>Date:</b> 5/17/24						
<b>Impinger No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>Total</b>
<b>Contents</b>	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
<b>Initial Mass, g</b>	292.1	525.7	726.5	717.8	622.6	995.6	3880.3
<b>Final Mass, g</b>	309.4	1195.7	825.6	719.2	643.7	1037.1	4730.7
<b>Gain</b>	17.3	670.0	99.1	1.4	21.1	41.5	850.4
<b>Run 6</b>	<b>Date:</b> 5/17/24						
<b>Impinger No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>Total</b>
<b>Contents</b>	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
<b>Initial Mass, g</b>	292.5	504.6	713.1	737.3	605.1	1022.4	3875.0
<b>Final Mass, g</b>	311.6	1127.4	858.2	737.3	611.7	1067.8	4714.0
<b>Gain</b>	19.1	622.8	145.1	0.0	6.6	45.4	839.0
<b>Run 7</b>	<b>Date:</b> 5/20/24						
<b>Impinger No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>Total</b>
<b>Contents</b>	XAD Trap	Empty	H2O	H2O	Empty	Silica	--
<b>Initial Mass, g</b>	284.8	526.9	686.6	717.5	648.1	1005.3	3869.2
<b>Final Mass, g</b>	304.3	1203.8	867.6	717.6	651.4	1054.7	4799.4
<b>Gain</b>	19.5	676.9	181.0	0.1	3.3	49.4	930.2

Location: BASF Corporation - Freeport, TX				Start Time: 9:13		Source: Incinerator IN-701 EPN 4-1-1			
Date: 5/15/24		Run 1	VALID	End Time: 13:21		Project No.: AST-2024-2250		Parameters: PCB, PAH	

STACK DATA (EST)	EQUIPMENT	STACK DATA (EST)	FILTER NO.	STACK DATA (FINAL)	MOIST. DATA																				
Moisture: 17.5 % est.	Meter Box ID: MB 509	Est. Tm: 74 °F		Pb: 29.81 in. Hg	Vlc (ml)																				
Barometric: 29.81 in. Hg	Y: 1.014	Est. Ts: 632 °F		Pg: -0.75 in. WC	996.8																				
Static Press: -0.75 in. WC	AH @ (in.WC): 1.884	Est. AP: 0.33 in. WC		O <sub>2</sub> : 1.87 %	K-FACTOR																				
Stack Press: 29.75 in. Hg	Probe ID: PR-508-1	Est. Dn: 0.313 in.		CO <sub>2</sub> : 7.6 %	4.632																				
CO <sub>2</sub> : 7.5 %	Liner Material: glass	Target Rate: 0.60 scfm		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Check Pt.</th> <th>Initial</th> <th>Final</th> <th>Corr.</th> </tr> <tr> <td>Mid 1 (cf)</td> <td></td> <td></td> <td>--</td> </tr> <tr> <td>Mid 2 (cf)</td> <td></td> <td></td> <td>--</td> </tr> <tr> <td>Mid 3 (cf)</td> <td></td> <td></td> <td>--</td> </tr> <tr> <td colspan="4">Mid-Point Leak Check Vol (cf): --</td> </tr> </table>		Check Pt.	Initial	Final	Corr.	Mid 1 (cf)			--	Mid 2 (cf)			--	Mid 3 (cf)			--	Mid-Point Leak Check Vol (cf): --			
Check Pt.	Initial	Final	Corr.																						
Mid 1 (cf)			--																						
Mid 2 (cf)			--																						
Mid 3 (cf)			--																						
Mid-Point Leak Check Vol (cf): --																									
O <sub>2</sub> : 1.8 %	Pitot ID: PR-508-1	LEAK CHECK: Pre Mid 1 Mid 2 Mid 3 Post																							
N <sub>2</sub> /CO: 90.7 %	Pitot Cp/Type: 0.826 S-type	Leak Rate (cfm): 0.000 -- -- -- 0.000																							
Md: 29.27 lb/lb-mole	Nozzle ID: GN-331 glass	Vacuum (in Hg): 17 -- -- -- 12																							
Ms: 27.30 lb/lb-mole	Nozzle Dn (in.): 0.331	Pitot Tube: Pass -- -- -- Pass																							

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft <sup>3</sup> )	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
					DGM Average	Stack				Probe	Filter	Imp Exit	Aux		
	Begin	End			Amb.	Amb.	Amb.	Amb.		Amb.	Amb.				
A1	0.00	5.00	0.000	0.370	71	636	1.70	1.65	6	245	251	65	61	97.3	49.89
1	5.00	10.00	3.410	0.338	73	637	1.56	1.50	8	245	251	62	52	98.2	47.71
1	10.00	15.00	6.710	0.410	75	637	1.89	1.85	8	245	250	62	52	97.8	52.54
1	15.00	20.00	10.340	0.410	77	637	1.90	1.85	8	245	250	58	52	97.7	52.54
A2	20.00	25.00	13.980	0.408	78	637	1.90	1.85	9	244	249	58	52	98.6	52.41
2	25.00	30.00	17.650	0.399	79	639	1.85	1.80	9	241	248	58	53	98.7	51.87
2	30.00	35.00	21.290	0.405	81	639	1.89	1.55	9	242	250	58	54	98.4	52.26
2	35.00	40.00	24.960	0.397	81	639	1.85	1.80	9	242	248	58	56	98.6	51.74
A3	40.00	45.00	28.600	0.404	81	639	1.88	1.80	9	241	249	58	57	98.0	52.20
3	45.00	50.00	32.250	0.401	82	641	1.87	1.80	9	242	250	59	58	98.6	52.05
3	50.00	55.00	35.910	0.400	84	641	1.87	1.80	9	242	251	59	59	98.6	51.99
3	55.00	60.00	39.580	0.398	85	641	1.87	1.80	9	245	244	59	59	98.9	51.86
A4	60.00	65.00	43.260	0.402	86	638	1.89	1.85	9	245	245	60	59	98.7	52.05
4	65.00	70.00	46.960	0.392	87	638	1.85	1.80	9	245	249	61	60	98.7	51.39
4	70.00	75.00	50.620	0.393	87	637	1.86	1.80	9	248	249	61	60	99.0	51.44
4	75.00	80.00	54.300	0.400	88	637	1.89	1.85	9	250	251	55	50	99.0	51.89
A5	80.00	85.00	58.020	0.404	88	638	1.91	1.85	9	251	251	55	50	98.9	52.17
5	85.00	90.00	61.750	0.372	88	640	1.76	1.70	9	250	250	56	51	98.7	50.11
5	90.00	95.00	65.320	0.384	89	639	1.82	1.75	9	250	251	57	52	98.8	50.89
5	95.00	100.00	68.960	0.403	89	639	1.91	1.85	9	251	251	57	52	99.1	52.13
A6	100.00	105.00	72.700	0.372	89	639	1.76	1.70	9	251	250	57	52	99.0	50.09
6	105.00	110.00	76.290	0.380	89	639	1.80	1.75	9	251	250	58	52	99.0	50.62
6	110.00	115.00	79.920	0.386	89	639	1.83	1.75	9	250	250	58	52	99.1	51.02
6	115.00	120.00	83.580	0.399	89	639	1.89	1.85	9	251	250	59	53	100.6	51.87
B1	120.00	125.00	87.356	0.400	82	638	1.87	1.80	9	250	249	65	54	91.4	51.92
1	125.00	130.00	90.750	0.403	86	638	1.90	1.85	9	250	249	56	50	99.1	52.11
1	130.00	135.00	94.470	0.388	88	639	1.83	1.80	9	250	250	56	52	99.3	51.15
1	135.00	140.00	98.140	0.381	88	639	1.80	1.75	9	251	249	57	53	99.6	50.69
B2	140.00	145.00	101.790	0.395	89	640	1.87	1.80	9	250	250	57	53	99.1	51.64
2	145.00	150.00	105.490	0.391	89	640	1.85	1.80	9	250	252	57	53	99.6	51.38
2	150.00	155.00	109.190	0.394	89	638	1.87	1.80	9	248	250	57	54	99.1	51.53
2	155.00	160.00	112.890	0.410	89	637	1.94	1.90	9	248	251	58	54	99.5	52.54
B3	160.00	165.00	116.680	0.425	89	638	2.01	1.95	9	250	251	58	54	99.1	53.51
3	165.00	170.00	120.520	0.400	89	637	1.90	1.85	9	250	251	58	54	99.1	51.89
3	170.00	175.00	124.250	0.387	89	638	1.83	1.80	9	251	252	59	55	99.2	51.07
3	175.00	180.00	127.920	0.400	89	636	1.90	1.85	9	250	251	59	56	99.4	51.87
B4	180.00	185.00	131.660	0.380	90	637	1.80	1.75	9	251	250	61	58	99.3	50.58
4	185.00	190.00	135.310	0.376	90	638	1.78	1.75	9	250	251	61	57	99.3	50.33
4	190.00	195.00	138.940	0.373	90	638	1.77	1.70	9	251	249	61	58	99.2	50.13
4	195.00	200.00	142.550	0.420	91	637	2.00	1.95	9	251	250	61	58	99.5	53.17
B5	200.00	205.00	146.400	0.428	91	638	2.03	2.00	9	250	249	61	59	98.9	53.70
5	205.00	210.00	150.260	0.414	91	638	1.97	1.90	9	250	249	61	60	99.5	52.82
5	210.00	215.00	154.080	0.385	91	637	1.83	1.75	9	250	249	61	60	99.0	50.91
5	215.00	220.00	157.750	0.380	91	638	1.81	1.76	9	251	249	61	60	99.2	50.60
B6	220.00	225.00	161.400	0.392	91	637	1.86	1.80	9	250	250	61	60	99.0	51.37
6	225.00	230.00	165.100	0.420	91	638	2.00	1.95	9	251	251	61	61	99.3	53.20
6	230.00	235.00	168.940	0.425	91	638	2.02	1.95	9	250	251	61	61	99.2	53.51
6	235.00	240.00	172.800	0.380	91	637	1.81	1.75	9	250	249	61	61	97.8	50.58
Final DGM:			176.399												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	Y <sub>qa</sub>				
	240.0	min	176.399	ft <sup>3</sup>	0.40	in. WC	86.5	°F	638.2	°F	9	1.802	in. WC	102.8	0.214

Location: BASF Corporation - Freeport, TX				Start Time: 14:02		Source: Incinerator IN-701 EPN 4-1-1					
Date: 5/15/24		Run 2		VALID		End Time: 18:07		Project No.: AST-2024-2250		Parameters: PCB, PAH	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA	
Moisture:	21.4	% est.	Meter Box ID:	MB 509	Est. Tm:	86	°F			Pb:	29.76	in. Hg	Vlc (ml)	
Barometric:	29.81	in. Hg	Y:	1.014	Est. Ts:	638	°F			Pg:	-0.75	in. WC	805.8	
Static Press:	-0.75	in. WC	AH @ (in.WC):	1.884	Est. AP:	0.40	in. WC			O <sub>2</sub> :	1.85	%	K-FACTOR	
Stack Press:	29.75	in. Hg	Probe ID:	PR-508-1	Est. Dn:	0.302	in.			CO <sub>2</sub> :	7.55	%	3.34	
CO <sub>2</sub> :	7.5	%	Liner Material:	glass	Target Rate:	0.60	scfm			Check Pt. Initial Final Corr.				
O <sub>2</sub> :	1.8	%	Pitot ID:	PR-508-1	LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)		--	
N <sub>2</sub> /CO:	90.7	%	Pitot Cp/Type:	0.826 S-type	Leak Rate (cfm):	0.000	--	--	--	0.000	Mid 2 (cf)		--	
Md:	29.27	lb/lb-mole	Nozzle ID:	GN-310 glass	Vacuum (in Hg):	17	--	--	--	10	Mid 3 (cf)		--	
Ms:	26.86	lb/lb-mole	Nozzle Dn (in.):	0.310	Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):		--	

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft <sup>3</sup> )	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
A1	0.00	5.00	0.000	0.390	79	637	1.29	1.25	4	249	250	61	43	99.8	51.66
1	5.00	10.00	3.070	0.375	80	637	1.24	1.20	5	249	250	52	43	97.9	50.65
1	10.00	15.00	6.030	0.370	81	636	1.23	1.20	6	250	250	53	45	100.0	50.29
1	15.00	20.00	9.040	0.366	81	636	1.22	1.20	6	251	251	54	46	100.2	50.02
A2	20.00	25.00	12.040	0.352	82	637	1.17	1.15	6	250	251	55	48	100.0	49.08
2	25.00	30.00	14.980	0.362	83	637	1.21	1.15	6	249	249	56	49	99.1	49.77
2	30.00	35.00	17.940	0.388	83	636	1.29	1.25	6	251	252	57	51	100.2	51.50
2	35.00	40.00	21.040	0.361	84	637	1.21	1.15	6	249	248	58	52	99.7	49.70
A3	40.00	45.00	24.020	0.365	85	638	1.22	1.20	6	248	247	58	53	100.0	50.00
3	45.00	50.00	27.030	0.373	86	637	1.25	1.20	6	250	249	59	54	99.0	50.52
3	50.00	55.00	30.050	0.351	86	640	1.17	1.15	6	253	251	59	54	100.5	49.07
3	55.00	60.00	33.020	0.363	86	639	1.21	1.20	6	250	251	60	55	100.2	49.88
A4	60.00	65.00	36.030	0.375	86	638	1.26	1.20	6	251	252	60	55	100.1	50.68
4	65.00	70.00	39.090	0.344	86	639	1.15	1.10	6	250	252	60	55	99.8	48.56
4	70.00	75.00	42.010	0.369	86	640	1.23	1.20	6	251	252	61	56	100.0	50.32
4	75.00	80.00	45.040	0.366	86	639	1.22	1.20	6	250	252	62	57	99.7	50.09
A5	80.00	85.00	48.050	0.386	87	635	1.30	1.25	6	251	252	55	48	100.3	51.34
5	85.00	90.00	51.170	0.371	87	636	1.25	1.20	6	250	251	55	48	100.4	50.36
5	90.00	95.00	54.230	0.370	87	637	1.24	1.20	6	251	251	55	48	99.6	50.32
5	95.00	100.00	57.260	0.383	87	636	1.29	1.25	6	251	251	55	48	100.4	51.17
A6	100.00	105.00	60.370	0.358	87	637	1.20	1.15	6	249	248	56	48	99.6	49.49
6	105.00	110.00	63.350	0.386	87	636	1.30	1.25	6	250	250	56	48	100.0	51.37
6	110.00	115.00	66.460	0.358	87	637	1.20	1.15	6	251	251	57	48	100.6	49.49
6	115.00	120.00	69.470	0.360	87	636	1.21	1.15	6	251	251	57	49	100.6	49.61
B1	120.00	125.00	72.490	0.341	86	635	1.15	1.10	6	250	251	45	47	100.4	48.26
1	125.00	130.00	75.420	0.374	86	636	1.25	1.20	6	252	249	44	45	99.8	50.56
1	130.00	135.00	78.470	0.370	86	637	1.24	1.20	6	251	252	44	45	99.4	50.32
1	135.00	140.00	81.490	0.368	86	636	1.23	1.20	6	250	252	44	45	100.0	50.16
B2	140.00	145.00	84.520	0.355	86	636	1.19	1.15	6	250	251	44	45	99.8	49.26
2	145.00	150.00	87.490	0.386	86	637	1.29	1.25	6	251	248	45	46	100.3	51.39
2	150.00	155.00	90.600	0.382	86	636	1.28	1.25	6	248	248	45	46	101.4	51.10
2	155.00	160.00	93.730	0.374	86	636	1.25	1.22	6	251	252	45	41	100.5	50.56
B3	160.00	165.00	96.800	0.400	86	635	1.34	1.30	6	250	249	46	41	99.7	52.27
3	165.00	170.00	99.950	0.361	86	635	1.21	1.15	6	251	249	45	41	99.9	49.65
3	170.00	175.00	102.950	0.385	86	636	1.29	1.25	6	250	249	46	41	100.4	51.30
3	175.00	180.00	106.060	0.344	86	635	1.16	1.10	6	250	248	46	41	99.3	48.47
B4	180.00	185.00	108.970	0.352	86	637	1.18	1.15	6	248	251	47	42	100.3	49.08
4	185.00	190.00	111.940	0.339	86	635	1.14	1.10	6	248	250	48	43	100.7	48.12
4	190.00	195.00	114.870	0.381	86	636	1.28	1.25	6	249	249	49	44	100.6	51.03
4	195.00	200.00	117.970	0.370	86	637	1.24	1.20	6	250	248	50	46	100.1	50.32
B5	200.00	205.00	121.010	0.377	86	636	1.26	1.25	6	247	249	50	47	99.8	50.77
5	205.00	210.00	124.070	0.380	86	635	1.28	1.25	6	248	247	51	48	100.3	50.94
5	210.00	215.00	127.160	0.386	86	636	1.29	1.25	6	250	251	51	48	99.6	51.37
5	215.00	220.00	130.250	0.361	86	637	1.21	1.15	6	251	251	52	49	100.7	49.70
B6	220.00	225.00	133.270	0.428	86	636	1.43	1.40	6	250	251	52	50	99.8	54.09
6	225.00	230.00	136.530	0.361	86	636	1.21	1.15	6	251	252	52	51	99.9	49.68
6	230.00	235.00	139.530	0.386	86	637	1.29	1.25	6	250	250	53	52	99.3	51.39
6	235.00	240.00	142.610	0.350	86	637	1.17	1.15	6	250	251	55	54	98.7	48.94
Final DGM:			145.525												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	AH	%ISO	BWS	Y <sub>qa</sub>	
	240.0	min	145.525	ft <sup>3</sup>	0.37	in. WC	85.4	°F	636.6	°F	6	
								1.198	in. WC	99.5	0.211	1.5



Location: BASF Corporation - Freeport, TX				Start Time: 7:06		Source: Incinerator IN-701 EPN 4-1-1					
Date: 5/16/24		Run 3		VALID		End Time: 11:10		Project No.: AST-2024-2250		Parameters: PCB, PAH	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA	
Moisture:	21.1	% est.	Meter Box ID:	MB 509	Est. Tm:	85	°F		Pb:	29.76	in. Hg	Vlc (ml)		
Barometric:	29.81	in. Hg	Y:	1.014	Est. Ts:	637	°F		Pg:	-0.75	in. WC	855.6		
Static Press:	-0.75	in. WC	AH @ (in.WC):	1.884	Est. AP:	0.37	in. WC		O <sub>2</sub> :	1.74	%	K-FACTOR		
Stack Press:	29.75	in. Hg	Probe ID:	PR-508-1	Est. Dn:	0.307	in.		CO <sub>2</sub> :	7.62	%	3.364		
CO <sub>2</sub> :	7.5	%	Liner Material:	glass	Target Rate:	0.60	scfm				Check Pt.	Initial	Final	Corr.
O <sub>2</sub> :	1.8	%	Pitot ID:	PR-508-1	LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)		--	
N <sub>2</sub> /CO:	90.7	%	Pitot Cp/Type:	0.826 S-type	Leak Rate (cfm):	0.000	--	--	--	0.000	Mid 2 (cf)		--	
Md:	29.27	lb/lb-mole	Nozzle ID:	GN-310 glass	Vacuum (in Hg):	17	--	--	--	12	Mid 3 (cf)		--	
Ms:	26.89	lb/lb-mole	Nozzle Dn (in.):	0.310	Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):		--	

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft <sup>3</sup> )	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
A1	0.00	5.00	0.000	0.405	71	630	1.34	1.30	5	251	251	65	64	96.8	52.44
1	5.00	10.00	3.010	0.375	73	639	1.23	1.20	7	250	251	55	48	100.3	50.67
1	10.00	15.00	6.010	0.372	75	638	1.23	1.20	7	251	249	56	47	98.6	50.44
1	15.00	20.00	8.960	0.361	77	638	1.20	1.15	6	252	248	57	48	99.4	49.69
A2	20.00	25.00	11.900	0.361	78	638	1.20	1.15	6	248	247	58	48	99.5	49.69
2	25.00	30.00	14.850	0.378	79	637	1.26	1.20	7	249	248	58	49	98.7	50.82
2	30.00	35.00	17.850	0.375	80	638	1.25	1.20	7	248	248	59	50	98.9	50.65
2	35.00	40.00	20.850	0.435	81	637	1.45	1.40	7	249	249	59	49	100.0	54.52
A3	40.00	45.00	24.120	0.400	82	638	1.34	1.30	7	251	249	61	49	99.6	52.31
3	45.00	50.00	27.250	0.368	83	637	1.23	1.20	7	249	251	55	47	100.3	50.15
3	50.00	55.00	30.280	0.375	83	637	1.26	1.20	7	249	250	55	47	101.0	50.62
3	55.00	60.00	33.360	0.345	84	637	1.16	1.10	7	251	250	56	45	100.3	48.56
A4	60.00	65.00	36.300	0.365	84	637	1.23	1.20	7	249	249	56	46	99.5	49.94
4	65.00	70.00	39.300	0.383	84	637	1.29	1.25	7	251	250	57	45	98.8	51.16
4	70.00	75.00	42.350	0.375	85	636	1.26	1.20	7	249	248	57	46	99.3	50.60
4	75.00	80.00	45.390	0.352	86	637	1.19	1.15	7	248	247	58	47	99.9	49.05
A5	80.00	85.00	48.360	0.358	86	637	1.21	1.15	7	250	251	58	48	99.8	49.46
5	85.00	90.00	51.350	0.375	86	637	1.26	1.25	8	251	251	59	48	98.5	50.62
5	90.00	95.00	54.370	0.376	86	637	1.27	1.25	8	250	251	59	48	99.0	50.69
5	95.00	100.00	57.410	0.366	86	637	1.23	1.20	8	251	250	60	49	99.0	50.01
A6	100.00	105.00	60.410	0.392	87	637	1.32	1.30	8	250	250	61	50	99.7	51.76
6	105.00	110.00	63.540	0.428	87	637	1.45	1.40	9	251	250	62	51	99.1	54.08
6	110.00	115.00	66.790	0.368	87	636	1.24	1.20	9	250	251	62	51	99.5	50.12
6	115.00	120.00	69.820	0.391	87	637	1.32	1.30	9	250	251	63	52	99.8	51.69
B1	120.00	125.00	72.950	0.367	83	637	1.23	1.20	9	251	252	63	53	100.7	50.08
1	125.00	130.00	75.990	0.351	84	637	1.18	1.15	8	251	251	55	48	98.8	48.98
1	130.00	135.00	78.910	0.370	84	637	1.24	1.20	8	251	251	55	48	99.5	50.28
1	135.00	140.00	81.930	0.371	84	637	1.25	1.20	8	251	251	55	48	98.4	50.35
B2	140.00	145.00	84.920	0.342	84	636	1.15	1.10	8	251	252	56	48	99.0	48.32
2	145.00	150.00	87.810	0.333	85	636	1.12	1.10	8	252	251	57	48	99.1	47.68
2	150.00	155.00	90.670	0.387	85	636	1.30	1.25	8	251	250	57	48	99.0	51.40
2	155.00	160.00	93.750	0.358	85	636	1.21	1.15	8	250	249	50	50	99.2	49.44
B3	160.00	165.00	96.720	0.355	85	637	1.20	1.15	8	251	250	51	51	99.0	49.25
3	165.00	170.00	99.670	0.401	85	636	1.35	1.30	8	250	251	52	51	99.2	52.32
3	170.00	175.00	102.810	0.358	85	637	1.21	1.15	8	251	252	52	52	98.6	49.46
3	175.00	180.00	105.760	0.351	86	636	1.18	1.15	8	250	252	52	52	100.7	48.95
B4	180.00	185.00	108.750	0.360	86	637	1.21	1.20	8	251	252	53	48	99.5	49.60
4	185.00	190.00	111.740	0.425	86	636	1.43	1.40	8	251	251	54	49	99.5	53.87
4	190.00	195.00	114.990	0.364	86	637	1.23	1.20	8	252	253	55	50	98.9	49.87
4	195.00	200.00	117.980	0.368	86	637	1.24	1.20	8	251	250	56	51	99.1	50.15
B5	200.00	205.00	120.990	0.368	86	636	1.24	1.20	8	250	251	57	53	99.3	50.12
5	205.00	210.00	124.010	0.372	86	637	1.25	1.20	8	251	251	58	54	99.5	50.42
5	210.00	215.00	127.050	0.360	86	636	1.22	1.20	8	252	250	59	55	99.1	49.58
5	215.00	220.00	130.030	0.396	85	636	1.33	1.20	8	249	250	60	56	99.4	52.00
B6	220.00	225.00	133.160	0.354	85	637	1.19	1.15	8	250	250	61	57	98.8	49.18
6	225.00	230.00	136.100	0.384	85	636	1.29	1.25	8	252	251	58	51	99.7	51.20
6	230.00	235.00	139.190	0.412	85	637	1.39	1.35	8	251	251	59	51	99.4	53.06
6	235.00	240.00	142.380	0.361	85	636	1.22	1.20	8	251	251	59	51	100.3	49.65
Final DGM:			145.395												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	AH	%ISO	BWS	Y <sub>qa</sub>				
	240.0	min	145.395	ft <sup>3</sup>	0.37	in. WC	83.7	°F	636.7	°F	9	1.215	in. WC	100.2	0.220

Location: BASF Corporation - Freeport, TX				Start Time: 11:40		Source: Incinerator IN-701 EPN 4-1-1					
Date: 5/16/24		Run 4		VALID		End Time: 15:45		Project No.: AST-2024-2250		Parameters: PCB, PAH	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA	
Moisture:	21.1	% est.	Meter Box ID:	MB 509	Est. Tm:	84	°F		Pb:	29.76	in. Hg	Vlc (ml)		
Barometric:	29.81	in. Hg	Y:	1.014	Est. Ts:	637	°F		Pg:	-0.75	in. WC	857.9		
Static Press:	-0.75	in. WC	AH @ (in.WC):	1.884	Est. AP:	0.37	in. WC		O <sub>2</sub> :	1.68	%	K-FACTOR		
Stack Press:	29.75	in. Hg	Probe ID:	PR-508-1	Est. Dn:	0.307	in.		CO <sub>2</sub> :	7.61	%	3.354		
CO <sub>2</sub> :	7.5	%	Liner Material:	glass	Target Rate:	0.60	scfm				Check Pt.	Initial	Final	Corr.
O <sub>2</sub> :	1.8	%	Pitot ID:	PR-508-1	LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)			
N <sub>2</sub> /CO:	90.7	%	Pitot Cp/Type:	0.826 S-type	Leak Rate (cfm):	0.000	--	--	--	0.001	Mid 2 (cf)			
Md:	29.27	lb/lb-mole	Nozzle ID:	GN-310 glass	Vacuum (in Hg):	17	--	--	--	10	Mid 3 (cf)			
Ms:	26.89	lb/lb-mole	Nozzle Dn (in.):	0.310	Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):	--		

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft <sup>3</sup> )	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
A1	0.00	5.00	0.000	0.361	77	636	1.20	1.15	4	249	251	61	43	99.6	49.65
1	5.00	10.00	2.950	0.369	78	637	1.23	1.20	4	250	251	55	44	99.7	50.22
1	10.00	15.00	5.940	0.363	78	636	1.21	1.15	4	251	252	55	44	99.5	49.78
1	15.00	20.00	8.900	0.378	79	637	1.26	1.20	4	250	252	55	44	99.0	50.82
A2	20.00	25.00	11.910	0.361	80	638	1.20	1.18	4	251	249	55	45	99.2	49.69
2	25.00	30.00	14.860	0.369	80	637	1.23	1.20	4	250	250	55	45	99.4	50.22
2	30.00	35.00	17.850	0.402	81	636	1.34	1.30	5	251	249	57	46	99.8	52.39
2	35.00	40.00	20.990	0.379	82	637	1.27	1.25	5	252	250	57	47	99.0	50.89
A3	40.00	45.00	24.020	0.359	83	635	1.21	1.15	6	251	249	58	48	99.4	49.49
3	45.00	50.00	26.990	0.382	84	637	1.28	1.25	6	250	249	59	49	99.9	51.09
3	50.00	55.00	30.070	0.384	85	636	1.29	1.25	7	251	249	60	50	99.4	51.20
3	55.00	60.00	33.150	0.370	85	637	1.25	1.20	7	250	249	60	50	99.0	50.28
A4	60.00	65.00	36.160	0.371	85	636	1.25	1.20	7	249	248	61	51	99.5	50.33
4	65.00	70.00	39.190	0.365	85	636	1.23	1.20	7	250	250	62	52	98.9	49.92
4	70.00	75.00	42.180	0.362	85	636	1.22	1.20	7	250	251	63	53	100.0	49.71
4	75.00	80.00	45.190	0.354	85	637	1.19	1.15	7	251	251	64	54	100.2	49.18
A5	80.00	85.00	48.170	0.362	86	634	1.22	1.20	7	250	249	61	51	99.1	49.67
5	85.00	90.00	51.160	0.401	86	636	1.35	1.30	7	251	252	59	49	99.0	52.32
5	90.00	95.00	54.300	0.398	85	637	1.34	1.30	7	249	249	59	50	98.6	52.15
5	95.00	100.00	57.410	0.362	86	637	1.22	1.20	7	249	248	60	51	99.2	49.74
A6	100.00	105.00	60.400	0.351	86	636	1.18	1.15	7	250	250	61	52	100.0	48.95
6	105.00	110.00	63.370	0.342	86	637	1.15	1.10	7	251	250	62	52	99.3	48.34
6	110.00	115.00	66.280	0.403	86	637	1.36	1.30	7	250	252	62	52	99.4	52.48
6	115.00	120.00	69.440	0.358	86	638	1.21	1.15	7	250	249	63	53	99.4	49.48
B1	120.00	125.00	72.418	0.354	81	635	1.19	1.15	7	251	252	55	58	99.5	49.14
1	125.00	130.00	75.360	0.366	82	637	1.23	1.20	7	249	250	51	50	99.7	50.01
1	130.00	135.00	78.360	0.365	82	636	1.22	1.20	7	251	252	52	51	98.8	49.92
1	135.00	140.00	81.330	0.378	82	637	1.27	1.25	7	249	248	52	51	100.1	50.82
B2	140.00	145.00	84.390	0.361	83	637	1.21	1.20	7	248	247	53	52	98.9	49.67
2	145.00	150.00	87.350	0.362	83	635	1.22	1.20	7	247	247	54	53	100.0	49.69
2	150.00	155.00	90.350	0.343	84	635	1.15	1.10	7	248	248	55	54	99.5	48.37
2	155.00	160.00	93.260	0.351	85	635	1.18	1.15	7	250	250	56	55	100.8	48.93
B3	160.00	165.00	96.250	0.363	85	637	1.22	1.20	7	251	252	57	56	99.6	49.81
3	165.00	170.00	99.250	0.355	85	636	1.20	1.15	7	249	251	58	57	99.3	49.23
3	170.00	175.00	102.210	0.371	85	635	1.25	1.20	7	249	248	59	58	99.4	50.31
3	175.00	180.00	105.240	0.376	85	636	1.27	1.25	7	251	251	60	58	99.1	50.67
B4	180.00	185.00	108.280	0.353	85	635	1.19	1.15	7	252	252	60	58	99.9	49.07
4	185.00	190.00	111.250	0.356	85	637	1.20	1.15	7	253	250	61	59	100.9	49.32
4	190.00	195.00	114.260	0.360	85	636	1.21	1.20	7	252	251	62	59	99.6	49.58
4	195.00	200.00	117.250	0.362	85	637	1.22	1.20	7	251	251	62	59	99.4	49.74
B5	200.00	205.00	120.240	0.374	85	636	1.26	1.20	7	251	250	62	60	99.7	50.53
5	205.00	210.00	123.290	0.371	85	637	1.25	1.20	7	249	251	55	48	100.5	50.35
5	210.00	215.00	126.350	0.352	85	637	1.19	1.15	7	251	250	56	49	99.4	49.05
5	215.00	220.00	129.300	0.366	85	637	1.23	1.20	7	251	250	56	50	100.2	50.01
B6	220.00	225.00	132.330	0.385	85	636	1.30	1.25	7	251	251	56	50	98.9	51.27
6	225.00	230.00	135.400	0.371	85	637	1.25	1.20	7	251	251	56	50	98.8	50.35
6	230.00	235.00	138.410	0.386	85	636	1.30	1.25	7	250	252	57	51	99.4	51.34
6	235.00	240.00	141.500	0.409	85	637	1.38	1.35	7	250	253	57	51	99.2	52.87
Final DGM:			144.669												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	AH	%ISO	BWS	Y <sub>qa</sub>			
	240.0	min	144.669	ft <sup>3</sup>	0.37	in. WC	83.8	°F	636.4	°F	7	1.202 in. WC	100.5	0.222

Location: BASF Corporation - Freeport, TX				Start Time: 7:00		Source: Incinerator IN-701 EPN 4-1-1					
Date: 5/17/24		Run 5		VALID		End Time: 11:05		Project No.: AST-2024-2250		Parameters: PCB, PAH	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA			
Moisture:	21.0	% est.	Meter Box ID:	MB 509	Est. Tm:	84	°F		Pb:	29.82	in. Hg	Vlc (ml)				
Barometric:	29.81	in. Hg	Y:	1.014	Est. Ts:	636	°F		Pg:	-0.77	in. WC	850.4				
Static Press:	-0.75	in. WC	ΔH @ (in.WC):	1.884	Est. ΔP:	0.37	in. WC		O <sub>2</sub> :	1.7	%	K-FACTOR				
Stack Press:	29.75	in. Hg	Probe ID:	PR-508-1	Est. Dn:	0.319	in.		CO <sub>2</sub> :	7.62	%	3.817				
CO <sub>2</sub> :	7.5	%	Liner Material:	glass	Target Rate:	0.65	scfm						Check Pt.	Initial	Final	Corr.
O <sub>2</sub> :	1.8	%	Pitot ID:	PR-508-1	LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)		--			
N <sub>2</sub> /CO:	90.7	%	Pitot Cp/Type:	0.826 S-type	Leak Rate (cfm):	0.000	--	--	--	0.000	Mid 2 (cf)		--			
Md:	29.27	lb/lb-mole	Nozzle ID:	GN-320 glass	Vacuum (in Hg):	15	--	--	--	10	Mid 3 (cf)		--			
Ms:	26.91	lb/lb-mole	Nozzle Dn (in.):	0.320	Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):		--			

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft <sup>3</sup> )	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
A1	0.00	5.00	0.000	0.37	70	634	1.38	1.20	5	251	250	67	41	99.9	50.14
1	5.00	10.00	3.150	0.37	73	635	1.39	1.20	5	250	251	58	44	98.3	50.23
1	10.00	15.00	6.270	0.43	75	634	1.62	1.40	6	249	253	60	44	98.4	54.12
1	15.00	20.00	9.650	0.37	76	634	1.40	1.20	6	248	254	61	48	101.3	50.27
A2	20.00	25.00	12.890	0.39	78	635	1.48	1.30	6	249	250	63	52	99.1	51.57
2	25.00	30.00	16.150	0.41	79	638	1.55	1.30	6	249	249	63	51	100.5	52.94
2	30.00	35.00	19.540	0.37	80	638	1.40	1.20	7	251	252	64	51	100.2	50.30
2	35.00	40.00	22.760	0.38	81	638	1.44	1.24	7	248	249	65	53	100.6	50.97
A3	40.00	45.00	26.040	0.41	82	638	1.56	1.30	7	249	249	64	53	99.3	52.94
3	45.00	50.00	29.410	0.37	82	639	1.41	1.20	7	248	247	65	55	99.3	50.32
3	50.00	55.00	32.610	0.42	83	638	1.60	1.40	7	250	249	64	55	99.1	53.59
3	55.00	60.00	36.020	0.37	84	639	1.41	1.20	7	251	250	64	55	98.6	50.32
A4	60.00	65.00	39.210	0.23	84	640	0.86	0.70	6	251	250	64	55	100.8	39.34
4	65.00	70.00	41.760	0.22	84	640	0.84	0.70	6	249	248	67	56	101.7	38.82
4	70.00	75.00	44.300	0.23	84	640	0.88	0.80	6	248	248	68	63	98.4	39.69
4	75.00	80.00	46.810	0.37	84	637	1.41	1.20	7	249	248	65	48	99.1	50.27
A5	80.00	85.00	50.020	0.39	83	639	1.49	1.30	7	251	252	62	46	97.8	51.66
5	85.00	90.00	53.260	0.40	84	639	1.53	1.30	7	249	248	61	44	97.8	52.32
5	90.00	95.00	56.550	0.31	84	639	1.18	1.20	7	248	250	60	42	100.0	46.06
5	95.00	100.00	59.510	0.29	84	614	1.13	1.10	6	249	250	58	43	99.7	44.04
A6	100.00	105.00	62.400	0.30	84	614	1.17	1.00	6	248	251	58	41	98.7	44.79
6	105.00	110.00	65.310	0.30	83	613	1.17	1.00	6	249	250	57	42	99.5	44.77
6	110.00	115.00	68.240	0.31	83	619	1.20	1.03	6	248	251	55	43	99.5	45.64
6	115.00	120.00	71.210	0.28	83	612	1.09	0.94	6	247	248	56	43	98.0	43.23
B1	120.00	125.00	74.000	0.37	80	634	1.41	1.20	7	247	247	63	52	96.9	50.20
1	125.00	130.00	77.120	0.40	82	634	1.53	1.30	7	246	249	62	54	99.5	52.20
1	130.00	135.00	80.460	0.36	83	634	1.38	1.20	7	246	249	64	55	99.0	49.52
1	135.00	140.00	83.620	0.38	83	634	1.45	1.20	7	247	249	66	56	99.1	50.88
B2	140.00	145.00	86.870	0.36	84	634	1.38	1.20	7	248	248	67	58	97.9	49.52
2	145.00	150.00	90.000	0.37	84	634	1.42	1.20	7	247	246	60	44	99.6	50.20
2	150.00	155.00	93.230	0.38	84	634	1.46	1.30	7	249	249	57	41	100.2	50.88
2	155.00	160.00	96.520	0.41	84	634	1.58	1.50	7	249	250	56	43	99.2	52.98
B3	160.00	165.00	99.910	0.37	84	634	1.42	1.40	7	248	250	57	52	99.1	50.20
3	165.00	170.00	103.120	0.38	84	638	1.45	1.20	7	247	251	58	52	100.3	50.97
3	170.00	175.00	106.410	0.41	85	640	1.56	1.50	7	249	249	59	52	98.9	52.99
3	175.00	180.00	109.780	0.38	85	640	1.44	1.40	7	248	248	61	52	98.4	50.88
B4	180.00	185.00	113.000	0.38	85	640	1.41	1.40	7	249	249	62	53	104.0	51.02
4	185.00	190.00	116.310	0.38	86	640	1.45	1.40	7	248	248	63	54	97.0	51.02
4	190.00	195.00	119.500	0.20	86	641	0.77	0.70	5	249	248	63	54	99.3	37.03
4	195.00	200.00	121.870	0.20	86	641	0.77	0.70	5	250	250	65	55	102.2	37.03
B5	200.00	205.00	124.310	0.20	86	641	0.75	0.70	5	249	251	66	56	100.9	36.56
5	205.00	210.00	126.690	0.20	86	640	0.75	0.70	5	248	251	66	57	102.2	36.55
5	210.00	215.00	129.100	0.42	86	637	1.61	1.60	8	250	249	64	51	99.7	53.56
5	215.00	220.00	132.550	0.42	86	637	1.61	1.60	8	249	249	63	48	100.0	53.56
B6	220.00	225.00	136.010	0.40	87	636	1.54	1.50	8	250	250	63	48	100.5	52.25
6	225.00	230.00	139.410	0.43	87	637	1.65	1.60	8	251	250	63	53	99.8	54.20
6	230.00	235.00	142.910	0.35	87	634	1.35	1.30	7	251	251	63	51	98.4	48.83
6	235.00	240.00	146.030	0.35	88	627	1.36	1.30	7	248	249	65	58	98.6	48.67
Final DGM:			149.170												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	Y <sub>qa</sub>				
	240.0	min	149.170	ft <sup>3</sup>	0.35	in. WC	83.0	°F	634.6	°F	8	1.461	in. WC	99.9	0.214

Location: BASF Corporation - Freeport, TX					Start Time: 11:38		Source: Incinerator IN-701 EPN 4-1-1				
Date: 5/17/24		Run 6		VALID		End Time: 15:43		Project No.: AST-2024-2250		Parameters: PCB, PAH	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA		
Moisture:	21.0	% est.	Meter Box ID:	MB 509	Est. Tm:	83	°F			Pb:	29.82	in. Hg	Vlc (ml)		
Barometric:	29.81	in. Hg	Y:	1.014	Est. Ts:	635	°F			Pg:	-0.77	in. WC	839.0		
Static Press:	-0.75	in. WC	ΔH @ (in.WC):	1.884	Est. ΔP:	0.35	in. WC			O <sub>2</sub> :	1.7	%	K-FACTOR		
Stack Press:	29.75	in. Hg	Probe ID:	PR-508-1	Est. Dn:	0.312	in.			CO <sub>2</sub> :	7.59	%	3.818		
CO <sub>2</sub> :	7.5	%	Liner Material:	glass	Target Rate:	0.60	scfm					Check Pt.	Initial	Final	Corr.
O <sub>2</sub> :	1.8	%	Pitot ID:	PR-508-1	LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)				
N <sub>2</sub> /CO:	90.7	%	Pitot Cp/Type:	0.826 S-type	Leak Rate (cfm):	0.000	--	--	--	0.000	Mid 2 (cf)				
Md:	29.27	lb/lb-mole	Nozzle ID:	GN-320 glass	Vacuum (in Hg):	15	--	--	--	10	Mid 3 (cf)				
Ms:	26.91	lb/lb-mole	Nozzle Dn (in.):	0.320	Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):	--			

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft <sup>3</sup> )	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
	Begin	End			DGM Average	Stack	Ideal	Actual		Probe	Filter	Imp Exit	Trap		
A1	0.00	5.00	0.000	0.35	80	636	1.31	1.30	5	253	249	55	63	99.9	48.52
1	5.00	10.00	3.100	0.34	82	636	1.30	1.30	5	254	253	55	63	98.6	48.17
1	10.00	15.00	6.150	0.42	83	636	1.60	1.60	5	251	250	55	63	96.1	53.41
1	15.00	20.00	9.450	0.39	85	635	1.48	1.40	8	250	249	56	61	97.0	51.37
A2	20.00	25.00	12.670	0.39	87	636	1.50	1.50	9	251	251	59	63	102.5	51.66
2	25.00	30.00	16.100	0.37	88	637	1.41	1.40	9	252	252	60	66	102.6	50.07
2	30.00	35.00	19.430	0.37	88	637	1.42	1.40	9	251	248	62	67	104.3	50.27
2	35.00	40.00	22.830	0.40	89	637	1.54	1.50	9	250	252	61	67	91.9	52.27
A3	40.00	45.00	25.950	0.40	89	637	1.54	1.50	8	253	254	55	67	91.3	52.27
3	45.00	50.00	29.050	0.37	89	640	1.42	1.40	8	253	251	58	67	95.4	50.34
3	50.00	55.00	32.160	0.37	89	640	1.42	1.40	8	251	252	60	67	95.7	50.34
3	55.00	60.00	35.280	0.36	89	640	1.38	1.40	8	252	251	65	67	107.5	49.66
A4	60.00	65.00	38.740	0.29	89	640	1.12	1.10	7	250	254	64	66	93.4	44.57
4	65.00	70.00	41.440	0.39	89	637	1.50	1.50	7	251	252	66	59	91.6	51.61
4	70.00	75.00	44.510	0.39	90	639	1.50	1.50	7	249	250	65	57	99.5	51.66
4	75.00	80.00	47.850	0.36	90	639	1.39	1.40	7	248	249	64	57	99.9	49.63
A5	80.00	85.00	51.070	0.38	90	639	1.47	1.40	7	249	248	64	54	95.7	50.99
5	85.00	90.00	54.240	0.35	90	640	1.35	1.30	7	248	247	64	54	99.4	48.96
5	90.00	95.00	57.400	0.37	90	639	1.43	1.40	7	249	249	66	56	99.4	50.32
5	95.00	100.00	60.650	0.36	91	636	1.39	1.40	7	248	247	65	52	97.4	49.57
A6	100.00	105.00	63.800	0.36	91	636	1.39	1.40	7	249	249	63	47	99.5	49.57
6	105.00	110.00	67.020	0.37	91	636	1.43	1.40	7	250	251	62	46	98.5	50.25
6	110.00	115.00	70.250	0.37	91	636	1.43	1.40	7	250	251	62	46	95.1	50.25
6	115.00	120.00	73.370	0.38	91	636	1.47	1.40	7	249	248	61	50	96.6	50.92
B1	120.00	125.00	76.581	0.40	88	636	1.54	1.40	7	250	251	65	43	94.3	52.25
1	125.00	130.00	79.780	0.36	90	636	1.39	1.40	7	249	250	55	41	99.7	49.57
1	130.00	135.00	83.000	0.40	90	636	1.55	1.50	7	246	248	56	41	98.7	52.25
1	135.00	140.00	86.360	0.37	91	636	1.43	1.40	7	248	249	57	40	97.9	50.25
B2	140.00	145.00	89.570	0.36	91	636	1.39	1.40	7	248	249	60	46	99.9	49.57
2	145.00	150.00	92.800	0.41	91	636	1.59	1.50	7	247	251	63	48	96.2	52.90
2	150.00	155.00	96.120	0.38	92	636	1.47	1.50	7	248	249	64	49	97.6	50.92
2	155.00	160.00	99.370	0.37	92	636	1.44	1.40	7	249	251	66	50	98.3	50.25
B3	160.00	165.00	102.600	0.36	92	636	1.40	1.40	7	250	251	67	54	100.6	49.57
3	165.00	170.00	105.860	0.40	92	636	1.55	1.50	7	251	250	68	60	91.9	52.25
3	170.00	175.00	109.000	0.38	92	636	1.47	1.40	7	249	249	64	52	99.1	50.92
3	175.00	180.00	112.300	0.38	92	636	1.47	1.40	7	249	249	60	45	99.7	50.92
B4	180.00	185.00	115.620	0.30	92	638	1.16	1.10	6	248	248	59	50	100.7	45.29
4	185.00	190.00	118.600	0.29	92	640	1.12	1.10	6	247	245	60	53	99.8	44.57
4	190.00	195.00	121.500	0.32	91	641	1.23	1.20	6	249	249	63	54	91.0	46.84
4	195.00	200.00	124.270	0.31	91	641	1.20	1.20	7	248	250	65	50	97.8	46.10
B5	200.00	205.00	127.200	0.31	91	640	1.20	1.20	7	249	251	66	55	92.4	46.08
5	205.00	210.00	129.970	0.32	91	628	1.25	1.20	7	248	248	66	61	94.4	46.56
5	210.00	215.00	132.860	0.32	91	627	1.25	1.20	7	251	250	67	61	99.2	46.54
5	215.00	220.00	135.900	0.36	91	635	1.40	1.40	7	250	250	68	61	94.2	49.54
B6	220.00	225.00	138.950	0.28	91	610	1.11	1.10	6	249	249	66	52	98.6	43.19
6	225.00	230.00	141.800	0.28	91	610	1.11	1.10	6	249	249	65	52	98.6	43.19
6	230.00	235.00	144.650	0.27	91	611	1.07	1.00	7	250	251	64	50	93.8	42.43
6	235.00	240.00	147.310	0.27	91	611	1.07	1.00	7	249	248	63	49	98.4	42.43
Final DGM:			150.100												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	ΔH	%ISO	BWS	Y <sub>qa</sub>	
	240.0	min	150.100	ft <sup>3</sup>	0.36	in. WC	89.8	°F	634.7	°F	9	
								1.348	in. WC	97.8	0.213	-1.4

Location: <b>BASF Corporation - Freeport, TX</b>				Start Time: <b>10:55</b>		Source: <b>Incinerator IN-701 EPN 4-1-1</b>					
Date: <b>5/20/24</b>		Run 7		VALID		End Time: <b>15:01</b>		Project No.: <b>AST-2024-2250</b>		Parameters: <b>PCB, PAH</b>	

STACK DATA (EST)			EQUIPMENT		STACK DATA (EST)			FILTER NO.		STACK DATA (FINAL)			MOIST. DATA		
Moisture:	21.0	% est.	Meter Box ID:	MB 509	Est. Tm:	90	°F		Pb:	29.83	in. Hg	Vlc (ml)			
Barometric:	29.81	in. Hg	Y:	1.014	Est. Ts:	635	°F		Pg:	-0.75	in. WC	930.2			
Static Press:	-0.75	in. WC	AH @ (in.WC):	1.884	Est. AP:	0.36	in. WC		O <sub>2</sub> :	1.69	%	K-FACTOR			
Stack Press:	29.75	in. Hg	Probe ID:	PR-508-1	Est. Dn:	0.308	in.		CO <sub>2</sub> :	7.58	%	3.865			
CO <sub>2</sub> :	7.5	%	Liner Material:	glass	Target Rate:	0.60	scfm					Check Pt.	Initial	Final	Corr.
O <sub>2</sub> :	1.8	%	Pitot ID:	PR-508-1	LEAK CHECK:	Pre	Mid 1	Mid 2	Mid 3	Post	Mid 1 (cf)				
N <sub>2</sub> /CO:	90.7	%	Pitot Cp/Type:	0.826 S-type	Leak Rate (cfm):	0.001	--	--	--	0.001	Mid 2 (cf)				
Md:	29.27	lb/lb-mole	Nozzle ID:	GN-320 glass	Vacuum (in Hg):	15	--	--	--	13	Mid 3 (cf)				
Ms:	26.91	lb/lb-mole	Nozzle Dn (in.):	0.320	Pitot Tube:	Pass	--	--	--	Pass	Mid-Point Leak Check Vol (cf):				

Sample Pt.	Sample Time (minutes)		Dry Gas Meter Reading (ft <sup>3</sup> )	Pitot Tube ΔP (in WC)	Gas Temperatures (°F)		Orifice Press. ΔH (in. WC)		Pump Vac (in. Hg)	Gas Temperatures (°F)				% ISO	Vs (fps)
					DGM Average	Stack				Probe	Filter	Imp Exit	Trap		
	Amb.	Stack			Amb.	Amb.	Amb.	Amb.							
	Begin	End			--	--	Ideal	Actual		--	--	--	--		
A1	0.00	5.00	0.000	0.37	78	637	1.40	1.50	8	248	249	67	47	96.9	50.27
1	5.00	10.00	3.101	0.37	82	637	1.41	1.50	8	247	248	64	50	96.1	50.27
1	10.00	15.00	6.200	0.37	83	637	1.41	1.50	9	250	251	63	49	100.3	50.27
1	15.00	20.00	9.440	0.40	84	637	1.53	1.60	10	251	252	63	49	101.4	52.27
A2	20.00	25.00	12.850	0.37	87	637	1.42	1.50	10	250	251	62	46	104.8	50.27
2	25.00	30.00	16.260	0.36	88	637	1.39	1.40	10	249	249	61	46	102.0	49.59
2	30.00	35.00	19.540	0.36	89	637	1.39	1.40	10	248	249	61	45	101.2	49.59
2	35.00	40.00	22.800	0.37	90	637	1.43	1.50	10	249	251	61	44	100.6	50.27
A3	40.00	45.00	26.090	0.38	90	637	1.47	1.50	10	251	252	61	46	97.7	50.95
3	45.00	50.00	29.330	0.36	91	637	1.39	1.50	10	250	251	62	50	103.6	49.59
3	50.00	55.00	32.680	0.37	91	637	1.43	1.50	10	249	250	63	53	97.0	50.27
3	55.00	60.00	35.860	0.37	91	637	1.43	1.50	10	248	250	64	54	100.1	50.27
A4	60.00	65.00	39.140	0.35	91	637	1.35	1.40	10	248	247	65	54	99.1	48.90
4	65.00	70.00	42.300	0.37	92	637	1.43	1.50	10	247	248	65	55	97.2	50.27
4	70.00	75.00	45.490	0.35	92	636	1.36	1.40	10	251	250	66	56	104.5	48.87
4	75.00	80.00	48.830	0.35	92	636	1.36	1.40	10	250	250	66	55	96.7	48.87
A5	80.00	85.00	51.920	0.37	92	636	1.44	1.50	10	250	251	64	52	102.3	50.25
5	85.00	90.00	55.280	0.38	92	636	1.47	1.50	10	250	250	65	53	99.1	50.92
5	90.00	95.00	58.580	0.38	92	636	1.47	1.50	10	251	252	65	53	97.0	50.92
5	95.00	100.00	61.810	0.40	92	636	1.55	1.60	10	250	251	65	54	97.8	52.25
A6	100.00	105.00	65.150	0.36	92	636	1.40	1.45	10	251	250	65	53	102.5	49.57
6	105.00	110.00	68.470	0.36	92	636	1.40	1.45	10	251	250	64	53	101.5	49.57
6	110.00	115.00	71.760	0.37	92	636	1.44	1.50	10	250	250	64	53	102.3	50.25
6	115.00	120.00	75.120	0.41	92	636	1.59	1.65	10	250	251	64	53	98.1	52.90
B1	120.00	125.00	78.510	0.37	93	636	1.44	1.50	11	251	252	65	56	103.6	50.25
1	125.00	130.00	81.920	0.38	93	636	1.48	1.50	11	250	250	66	54	102.9	50.92
1	130.00	135.00	85.350	0.37	93	636	1.44	1.50	11	251	251	65	54	105.8	50.25
1	135.00	140.00	88.830	0.36	92	636	1.40	1.45	11	250	250	64	47	107.1	49.57
B2	140.00	145.00	92.300	0.38	93	636	1.48	1.50	11	249	248	63	49	101.7	50.92
2	145.00	150.00	95.690	0.38	93	636	1.48	1.50	11	248	248	62	51	102.9	50.92
2	150.00	155.00	99.120	0.39	93	636	1.52	1.60	11	249	249	63	55	99.8	51.59
2	155.00	160.00	102.490	0.38	93	637	1.48	1.50	11	251	251	65	58	101.1	50.95
B3	160.00	165.00	105.860	0.37	93	637	1.44	1.50	11	250	251	66	59	101.5	50.27
3	165.00	170.00	109.200	0.41	93	636	1.59	1.70	11	251	252	67	60	98.5	52.90
3	170.00	175.00	112.610	0.36	93	636	1.40	1.50	11	250	252	68	63	104.4	49.57
3	175.00	180.00	116.000	0.39	93	636	1.52	1.60	11	250	252	61	48	100.4	51.59
B4	180.00	185.00	119.390	0.37	93	636	1.44	1.50	11	251	250	58	44	106.7	50.25
4	185.00	190.00	122.900	0.37	93	636	1.44	1.50	11	251	250	58	44	100.9	50.25
4	190.00	195.00	126.220	0.36	93	636	1.40	1.50	11	250	251	58	45	102.6	49.57
4	195.00	200.00	129.550	0.36	93	637	1.40	1.50	11	251	250	58	47	105.4	49.59
B5	200.00	205.00	132.970	0.36	93	637	1.40	1.50	11	251	250	58	50	105.7	49.59
5	205.00	210.00	136.400	0.36	93	637	1.40	1.50	11	252	250	59	53	104.8	49.59
5	210.00	215.00	139.800	0.37	93	636	1.44	1.50	11	251	250	59	55	95.1	50.25
5	215.00	220.00	142.930	0.36	93	636	1.40	1.50	11	250	250	60	57	102.6	49.57
B6	220.00	225.00	146.260	0.37	93	636	1.44	1.50	11	251	250	61	58	101.5	50.25
6	225.00	230.00	149.600	0.37	93	636	1.44	1.50	11	251	250	58	53	97.2	50.25
6	230.00	235.00	152.800	0.36	93	635	1.40	1.50	11	252	252	60	48	101.6	49.54
6	235.00	240.00	156.100	0.36	93	634	1.40	1.50	11	252	252	61	49	103.6	49.52
Final DGM:			159.467												

RESULTS	Run Time		Vm	AP	Tm	Ts	Max Vac	AH	%ISO	BWS	Y <sub>qa</sub>	
	240.0	min	159.467	ft <sup>3</sup>	0.37	in. WC	91.2	°F	636.3	°F	11	
								1.502	in. WC	102.3	0.221	-1.0

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250

Response Times, seconds			
Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Zero</b>	30	30	30
<b>Low</b>	NA	NA	30
<b>Mid</b>	30	30	30
<b>High</b>	30	30	30
<b>Average</b>	30.0	30.0	30.0

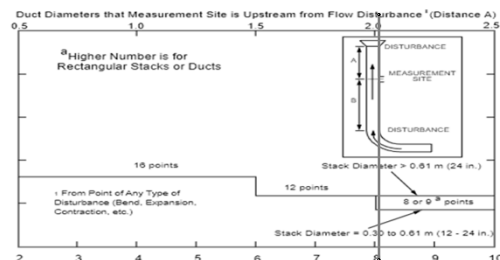
**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/15/2024

Traverse Point	Time	O <sub>2</sub> (%)	CO <sub>2</sub> (%)
A-1	9:13	1.88	7.48
2	9:15	1.87	7.49
3	9:17	1.90	7.49
Average		1.9	7.5
Criteria Met		Single Point	Single Point

Location **BASF Corporation - Freeport, TX**  
Source **Incinerator IN-701 EPN 4-1-1**  
Project No. **AST-2024-2250**  
Date: **05/14/24**

### Stack Parameters

Duct Orientation: **Vertical**  
Duct Design: **Circular**  
Distance from Far Wall to Outside of Port: **91.54 in**  
Nipple Length: **7.50 in**  
Depth of Duct: **84.04 in**  
Cross Sectional Area of Duct: **38.52 ft<sup>2</sup>**  
No. of Test Ports: **4**  
Number of Readings per Point: **1**  
Distance A: **62.0 ft**  
Distance A Duct Diameters: **8.9 (must be  $\geq 0.5$ )**  
Distance B: **55.5 ft**  
Distance B Duct Diameters: **7.9 (must be  $\geq 2$ )**  
Actual Number of Traverse Points: **3**  
Measurer (Initial and Date): **LAD (5/14/2024)**  
Reviewer (Initial and Date): **JAS (5/14/2024)**

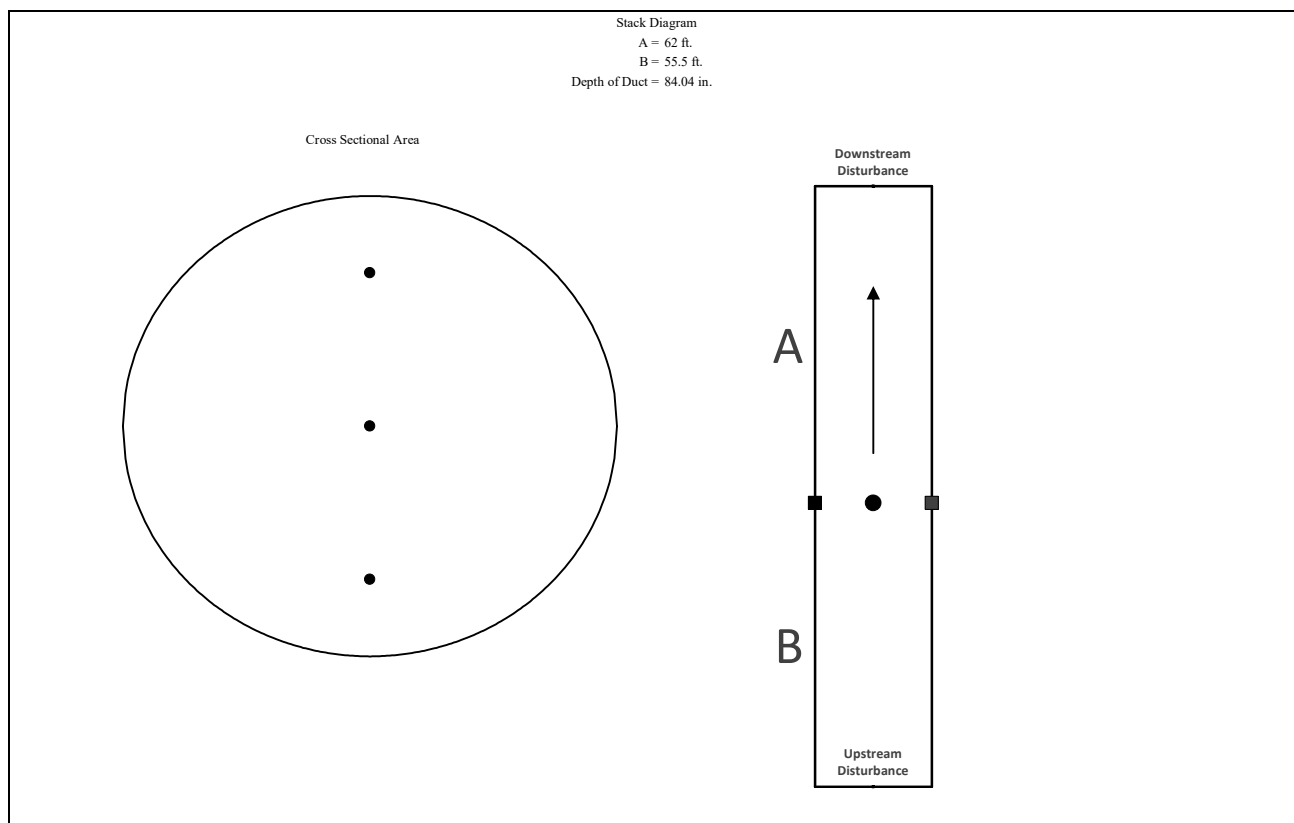


### CIRCULAR DUCT

LOCATION OF TRAVERSE POINTS											
Number of traverse points on a diameter											
	2	3	4	5	6	7	8	9	10	11	12
1	14.6	16.7	6.7	--	4.4	--	3.2	--	2.6	--	2.1
2	85.4	50.0	25.0	--	14.6	--	10.5	--	8.2	--	6.7
3	--	83.3	75.0	--	29.6	--	19.4	--	14.6	--	11.8
4	--	--	93.3	--	70.4	--	32.3	--	22.6	--	17.7
5	--	--	--	--	85.4	--	67.7	--	34.2	--	25.0
6	--	--	--	--	95.6	--	80.6	--	65.8	--	35.6
7	--	--	--	--	--	--	89.5	--	77.4	--	64.4
8	--	--	--	--	--	--	96.8	--	85.4	--	75.0
9	--	--	--	--	--	--	--	--	91.8	--	82.3
10	--	--	--	--	--	--	--	--	97.4	--	88.2
11	--	--	--	--	--	--	--	--	--	--	93.3
12	--	--	--	--	--	--	--	--	--	--	97.9

\*Percent of stack diameter from inside wall to traverse point.

Traverse Point	% of Diameter	Distance from inside wall	Distance from outside of port
1	16.7	14.03	21.53
2	50.0	42.02	49.52
3	83.3	70.01	77.51
4	--	--	--
5	--	--	--
6	--	--	--
7	--	--	--
8	--	--	--
9	--	--	--
10	--	--	--
11	--	--	--
12	--	--	--





Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.86	7.52	0.05
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.03	0.00
Pretest System Cal Response	10.96	10.90	15.24
Posttest System Cal Response	10.98	10.74	15.12
Average Cal Response (C <sub>M</sub> )	10.97	10.82	15.18
Corrected Run Average (Corr)	1.87	7.60	NA
9:13	1.88	7.48	0.00
9:14	1.89	7.47	0.00
9:15	1.87	7.49	0.00
9:16	1.96	7.44	0.00
9:17	1.90	7.49	0.00
9:18	1.88	7.50	0.00
9:19	1.86	7.52	0.00
9:20	1.88	7.51	0.02
9:21	1.87	7.51	0.00
9:22	1.87	7.51	0.00
9:23	1.87	7.52	0.04
9:24	1.88	7.50	0.00
9:25	1.89	7.50	0.26
9:26	1.90	7.50	0.00
9:27	1.92	7.50	0.04
9:28	1.90	7.51	0.04
9:29	1.92	7.49	0.02
9:30	1.90	7.52	0.03
9:31	1.88	7.53	0.00
9:32	1.91	7.51	0.00
9:33	1.90	7.52	0.00
9:34	1.89	7.53	0.02
9:35	1.90	7.53	0.00
9:36	1.94	7.50	0.00
9:37	1.92	7.52	0.01
9:38	1.97	7.49	0.00
9:39	1.91	7.52	0.00
9:40	1.93	7.51	0.00
9:41	1.91	7.52	0.00
9:42	1.91	7.52	0.00
9:43	1.90	7.52	0.01
9:44	1.89	7.53	0.03
9:45	1.91	7.52	0.00
9:46	1.91	7.52	0.09
9:47	1.92	7.52	0.00
9:48	1.92	7.51	0.02
9:49	1.92	7.51	0.00
9:50	1.93	7.51	0.00
9:51	1.91	7.52	0.00
9:52	1.91	7.52	0.00
9:53	1.91	7.52	0.04
9:54	1.93	7.51	0.00
9:55	1.89	7.54	0.03
9:56	1.90	7.52	0.00
9:57	1.89	7.53	0.00
9:58	1.88	7.53	0.00
9:59	1.88	7.53	0.00
10:00	1.88	7.53	0.00

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.86	7.52	0.05
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.03	0.00
Pretest System Cal Response	10.96	10.90	15.24
Posttest System Cal Response	10.98	10.74	15.12
Average Cal Response (C <sub>M</sub> )	10.97	10.82	15.18
Corrected Run Average (Corr)	1.87	7.60	NA

10:01	1.88	7.53	0.00
10:02	1.84	7.55	0.04
10:03	1.86	7.54	0.19
10:04	1.87	7.53	1.05
10:05	1.88	7.52	1.34
10:06	1.89	7.51	2.29
10:07	1.91	7.49	0.00
10:08	1.88	7.52	0.00
10:09	1.86	7.53	THC Drift Ch
10:10	1.88	7.52	
10:11	1.87	7.53	
10:12	1.84	7.54	
10:13	1.85	7.54	
10:14	1.87	7.52	0.12
10:15	1.85	7.54	0.00
10:16	1.86	7.53	0.00
10:17	1.89	7.52	0.06
10:18	1.86	7.52	0.00
10:19	1.86	7.52	0.06
10:20	1.88	7.51	0.10
10:21	1.89	7.50	0.11
10:22	1.86	7.51	0.00
10:23	1.87	7.51	0.00
10:24	1.85	7.51	0.12
10:25	1.84	7.52	0.00
10:26	1.84	7.50	0.10
10:27	1.83	7.50	0.00
10:28	1.89	7.47	0.15
10:29	1.87	7.48	0.00
10:30	1.91	7.47	0.03
10:31	1.88	7.48	0.06
10:32	1.88	7.48	0.00
10:33	1.88	7.49	0.10
10:34	1.86	7.50	0.00
10:35	1.87	7.49	0.12
10:36	1.88	7.48	0.00
10:37	1.83	7.52	0.00
10:38	1.88	7.48	0.09
10:39	1.85	7.52	0.00
10:40	1.89	7.49	0.11
10:41	1.86	7.51	0.00
10:42	1.85	7.51	0.19
10:43	1.86	7.50	0.00
10:44	1.87	7.49	0.00
10:45	1.86	7.50	0.15
10:46	1.84	7.51	0.00
10:47	1.86	7.52	0.07
10:48	1.88	7.51	0.00

THC Drift Ch

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.86	7.52	0.05
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.03	0.00
Pretest System Cal Response	10.96	10.90	15.24
Posttest System Cal Response	10.98	10.74	15.12
Average Cal Response (C <sub>M</sub> )	10.97	10.82	15.18
Corrected Run Average (Corr)	1.87	7.60	NA

10:49	1.89	7.49	0.07
10:50	1.86	7.50	0.00
10:51	1.85	7.51	0.02
10:52	1.86	7.50	0.07
10:53	1.83	7.53	0.00
10:54	1.87	7.50	0.19
10:55	1.85	7.52	0.00
10:56	1.87	7.50	0.09
10:57	1.88	7.50	0.00
10:58	1.93	7.48	0.01
10:59	1.88	7.50	0.13
11:00	1.88	7.49	0.01
11:01	1.89	7.48	0.11
11:02	1.87	7.50	0.00
11:03	1.87	7.50	0.14
11:04	1.87	7.51	0.00
11:05	1.83	7.53	0.06
11:06	1.85	7.52	0.01
11:07	1.86	7.51	0.00
11:08	1.87	7.51	0.07
11:09	1.87	7.51	0.00
11:10	1.87	7.52	0.07
11:11	1.88	7.51	0.00
11:12	1.88	7.49	0.13
11:13	1.90	7.49	0.00
11:14	1.91	7.48	0.01
11:15	1.89	7.52	0.09
11:16	1.88	7.51	
11:17	1.82	7.53	
11:18	1.84	7.52	
11:19	1.83	7.52	
11:20	1.87	7.50	
11:21	1.84	7.51	0.00
11:22	1.89	7.48	0.15
11:23	1.85	7.51	0.00
11:24	1.89	7.48	0.15
11:25	1.88	7.50	0.00
11:26	1.91	7.48	0.08
11:27	1.87	7.50	0.00
11:28	1.85	7.51	0.00
11:29	1.84	7.51	0.20
11:30	1.85	7.51	0.00
11:31	1.83	7.52	0.18
11:32	1.84	7.52	0.00
11:33	1.84	7.52	0.26
11:34	1.86	7.52	0.00
11:35	1.85	7.51	0.00
11:36	1.87	7.51	0.14

THC Drift Ch

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.86	7.52	0.05
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.03	0.00
Pretest System Cal Response	10.96	10.90	15.24
Posttest System Cal Response	10.98	10.74	15.12
Average Cal Response (C <sub>M</sub> )	10.97	10.82	15.18
Corrected Run Average (Corr)	1.87	7.60	NA
11:37	1.84	7.52	0.00
11:38	1.83	7.52	0.02
11:39	1.85	7.52	0.00
11:40	1.86	7.52	0.05
11:41	1.86	7.52	0.00
11:42	1.86	7.53	0.00
11:43	1.86	7.52	0.02
11:44	1.82	7.54	0.00
11:45	1.82	7.54	0.04
11:46	1.84	7.53	0.00
11:47	1.84	7.53	0.01
11:48	1.83	7.53	0.00
11:49	1.85	7.51	0.00
11:50	1.84	7.53	0.01
11:51	1.82	7.54	0.00
11:52	1.85	7.52	0.07
11:53	1.84	7.53	0.00
11:54	1.87	7.51	0.01
11:55	1.83	7.53	0.00
11:56	1.86	7.52	0.02
11:57	1.85	7.53	0.01
11:58	1.84	7.54	0.00
11:59	1.86	7.52	0.07
12:00	1.84	7.54	0.00
12:01	1.84	7.53	0.00
12:02	1.84	7.53	0.00
12:03	1.83	7.53	0.02
12:04	1.87	7.50	0.00
12:05	1.84	7.53	0.00
12:06	1.82	7.53	0.03
12:07	1.86	7.52	0.00
12:08	1.85	7.52	0.02
12:09	1.80	7.55	0.00
12:10	1.79	7.55	0.06
12:11	1.80	7.55	0.00
12:12	1.80	7.55	0.01
12:13	1.82	7.54	0.02
12:14	1.85	7.53	0.00
12:15	1.87	7.52	0.01
12:16	1.90	7.51	0.00
12:17	1.86	7.53	0.03
12:18	1.81	7.55	0.00
12:19	1.83	7.55	0.56
12:20	1.83	7.55	0.05
12:21	1.83	7.54	
12:22	1.78	7.57	THC Drift Ch
12:23	1.80	7.55	
12:24	1.78	7.57	

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.86	7.52	0.05
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.03	0.00
Pretest System Cal Response	10.96	10.90	15.24
Posttest System Cal Response	10.98	10.74	15.12
Average Cal Response (C <sub>M</sub> )	10.97	10.82	15.18
Corrected Run Average (Corr)	1.87	7.60	NA
12:25	1.84	7.53	0.00
12:26	1.86	7.52	0.06
12:27	1.85	7.52	0.04
12:28	1.86	7.51	0.00
12:29	1.85	7.52	0.00
12:30	1.80	7.55	0.00
12:31	1.81	7.55	0.02
12:32	1.84	7.54	0.00
12:33	1.78	7.57	0.03
12:34	1.82	7.54	0.01
12:35	1.79	7.56	0.00
12:36	1.78	7.57	0.04
12:37	1.82	7.55	0.00
12:38	1.83	7.55	0.07
12:39	1.81	7.55	0.00
12:40	1.82	7.54	0.00
12:41	1.81	7.53	0.01
12:42	1.82	7.53	0.00
12:43	1.83	7.53	0.09
12:44	1.85	7.53	0.00
12:45	1.79	7.55	0.14
12:46	1.82	7.54	0.00
12:47	1.83	7.53	0.08
12:48	1.82	7.55	0.00
12:49	1.85	7.53	0.02
12:50	1.85	7.53	0.18
12:51	1.84	7.54	0.00
12:52	1.81	7.57	0.10
12:53	1.84	7.56	0.00
12:54	1.88	7.55	0.06
12:55	1.86	7.55	0.00
12:56	1.83	7.55	0.00
12:57	1.82	7.56	0.08
12:58	1.83	7.56	0.00
12:59	1.84	7.55	0.14
13:00	1.85	7.53	0.00
13:01	1.84	7.54	0.13
13:02	1.80	7.57	0.00
13:03	1.81	7.56	0.00
13:04	1.87	7.53	0.07
13:05	1.85	7.55	0.00
13:06	1.83	7.54	0.07
13:07	1.80	7.56	0.00
13:08	1.81	7.56	0.07
13:09	1.83	7.55	0.00
13:10	1.81	7.56	0.00
13:11	1.82	7.55	0.05
13:12	1.83	7.54	0.00

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.86	7.52	0.05
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>o</sub> )	0.00	0.03	0.00
Pretest System Cal Response	10.96	10.90	15.24
Posttest System Cal Response	10.98	10.74	15.12
Average Cal Response (C <sub>M</sub> )	10.97	10.82	15.18
Corrected Run Average (Corr)	1.87	7.60	NA
13:13	1.80	7.56	0.04
13:14	1.80	7.56	0.00
13:15	1.86	7.53	0.15
13:16	1.86	7.53	0.00
13:17	1.88	7.53	0.00
13:18	1.84	7.55	0.04
13:19	1.84	7.55	0.00
13:20	1.88	7.53	0.04
13:21	1.84	7.55	0.00

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/15/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:13	191.3	0.908	0.194	19.56
9:14	191.2	0.908	0.149	18.61
9:15	191.2	0.911	0.235	19.28
9:16	191.2	0.911	0.222	18.20
9:17	191.2	0.908	0.130	23.24
9:18	191.2	0.910	0.211	19.13
9:19	191.2	0.907	0.130	20.83
9:20	191.2	0.909	0.233	18.90
9:21	191.3	0.904	0.130	24.89
9:22	191.2	0.914	0.207	15.69
9:23	191.3	0.905	0.190	19.62
9:24	191.3	0.907	0.130	24.19
9:25	191.4	0.991	0.410	23.63
9:26	191.6	0.991	0.304	27.50
9:28	191.7	0.994	0.340	25.29
9:29	191.7	0.995	0.506	21.00
9:30	191.8	0.990	0.635	18.03
9:31	191.5	0.912	0.283	10.95
9:32	191.4	0.907	0.130	20.60
9:33	191.3	0.906	0.130	23.81
9:34	191.2	0.910	0.130	21.20
9:35	191.2	0.909	0.343	18.59
9:36	191.2	0.908	0.277	19.22
9:37	191.3	0.912	0.176	16.00
9:38	191.2	0.907	0.168	19.59
9:39	191.2	0.908	0.130	21.22
9:40	191.3	0.910	0.135	15.76
9:41	191.2	0.906	0.130	24.89
9:42	191.2	0.911	0.194	17.68
9:43	191.3	0.961	0.454	13.17
9:44	191.5	0.991	0.633	21.50
9:45	191.6	0.993	0.223	28.58
9:46	191.7	0.994	0.310	26.81
9:47	191.7	0.995	0.516	23.23
9:49	191.4	0.932	0.393	13.93
9:50	191.3	0.905	0.162	20.67
9:51	191.1	0.908	0.130	23.73
9:52	191.2	0.907	0.130	20.99
9:53	191.2	0.907	0.130	22.58
9:54	191.2	0.911	0.244	17.97
9:55	191.2	0.908	0.130	20.75
9:56	191.2	0.909	0.130	20.94
9:57	191.2	0.910	0.419	16.95
9:58	191.2	0.912	0.222	15.92
9:59	191.2	0.908	0.130	20.45
10:00	191.3	0.940	0.335	18.66
10:01	191.4	0.986	0.413	27.24
10:02	191.6	0.994	0.130	33.08
10:03	191.7	0.995	0.256	27.98
10:04	191.8	1.001	0.375	24.79
10:05	191.8	1.004	0.429	24.86
10:06	191.8	1.003	0.428	24.55
10:07	191.5	0.926	0.130	13.57
10:08	191.4	0.909	0.436	18.15
10:19	191.3	0.911	0.234	16.17
10:20	191.3	0.912	0.237	18.29

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/15/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:21	191.3	0.911	0.308	17.04
10:22	191.3	0.910	0.130	21.32
10:23	191.3	0.912	0.130	16.10
10:24	191.3	0.912	0.324	18.50
10:25	191.3	0.906	0.130	24.65
10:26	191.3	0.911	0.403	18.70
10:27	191.3	0.909	0.382	19.68
10:28	191.3	0.913	0.262	16.84
10:29	191.3	0.909	0.130	21.32
10:30	191.3	0.912	0.130	19.49
10:31	191.3	0.912	0.290	16.95
10:33	191.3	0.908	0.130	20.58
10:34	191.3	0.909	0.130	21.34
10:35	191.3	0.910	0.243	19.25
10:36	191.3	0.910	0.130	21.47
10:37	191.3	0.910	0.224	19.53
10:38	191.3	0.911	0.130	20.56
10:39	191.2	0.911	0.150	18.67
10:40	191.2	0.909	0.149	21.20
10:41	191.3	0.910	0.130	20.49
10:42	191.2	0.911	0.134	16.17
10:43	191.2	0.911	0.130	20.39
10:44	191.3	0.907	0.130	22.89
10:45	191.3	0.912	0.136	19.37
10:46	191.3	0.909	0.210	19.70
10:47	191.3	0.912	0.130	20.42
10:48	191.3	0.908	0.143	20.62
10:49	191.3	0.912	0.229	18.19
10:50	191.3	0.910	0.412	19.33
10:51	191.3	0.911	0.186	20.36
10:52	191.3	0.910	0.187	18.03
10:53	191.3	0.912	0.318	16.39
10:55	191.3	0.908	0.130	21.87
10:56	191.3	0.910	0.130	21.36
10:57	191.2	0.910	0.480	17.92
10:58	191.3	0.912	0.323	16.31
10:59	191.3	0.907	0.130	21.45
11:00	191.3	0.911	0.815	17.94
11:01	191.1	0.913	0.189	15.56
11:02	191.1	0.905	0.130	25.09
11:03	191.1	0.911	0.431	18.33
11:04	191.2	0.910	0.607	20.34
11:05	191.2	0.910	0.226	18.78
11:06	191.3	0.910	0.405	19.66
11:07	191.3	0.912	0.284	17.75
11:08	191.3	0.908	0.130	22.83
11:09	191.2	0.911	0.343	17.68
11:10	191.3	0.910	0.411	18.09
11:11	191.2	0.908	0.130	21.57
11:12	191.2	0.910	0.200	19.74
11:13	191.3	0.912	0.396	15.51
11:26	191.1	0.913	0.262	15.58
11:27	191.3	0.912	0.153	17.09
11:28	191.2	0.911	0.130	21.21
11:29	191.3	0.913	0.371	16.91
11:30	191.3	0.916	0.357	12.96



Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/15/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
11:31	191.2	0.907	0.542	18.07
11:32	191.1	0.905	0.130	28.73
11:33	191.1	0.914	0.130	19.95
11:34	191.2	0.912	0.290	13.93
11:35	191.3	0.912	0.442	17.38
11:36	191.4	0.911	0.636	17.72
11:37	191.4	0.910	0.140	21.29
11:39	191.4	0.913	0.276	15.99
11:40	191.3	0.910	0.216	16.62
11:41	191.4	0.911	0.275	19.63
11:42	191.3	0.910	0.130	20.75
11:43	191.3	0.915	0.302	15.11
11:44	191.2	0.911	0.311	16.30
11:45	191.3	0.908	0.130	22.80
11:46	191.3	0.909	0.130	22.96
11:47	191.3	0.911	0.285	17.46
11:48	191.3	0.911	0.529	18.91
11:49	191.3	0.911	0.462	16.94
11:50	191.3	0.912	0.172	19.96
11:51	191.3	0.908	0.130	22.08
11:52	191.3	0.912	0.423	17.71
11:53	191.3	0.910	0.512	18.51
11:54	191.3	0.911	0.347	17.78
11:55	191.3	0.912	0.306	17.94
11:56	191.3	0.908	0.130	20.92
11:57	191.2	0.908	0.130	21.58
11:58	191.2	0.909	0.158	22.01
12:00	191.3	0.911	0.442	16.96
12:01	191.3	0.913	0.312	15.61
12:02	191.3	0.908	0.465	17.95
12:03	191.3	0.908	0.130	23.54
12:04	191.3	0.908	0.130	22.74
12:05	191.3	0.908	0.365	21.56
12:06	191.0	0.910	0.597	18.25
12:07	191.2	0.911	0.464	19.57
12:08	191.3	0.913	0.464	17.41
12:09	191.3	0.909	0.130	22.81
12:10	191.3	0.912	0.333	18.77
12:11	191.4	0.916	0.230	12.00
12:12	191.4	0.908	0.140	21.79
12:13	191.3	0.910	0.130	22.46
12:14	191.3	0.911	0.465	19.26
12:15	191.4	0.913	0.352	17.39
12:16	191.4	0.911	0.163	19.51
12:17	191.4	0.909	0.260	20.72
12:18	191.3	0.914	0.323	15.53
12:19	191.4	0.909	0.136	20.80
12:29	191.3	0.908	0.692	17.33
12:30	191.3	0.911	0.244	19.08
12:31	191.3	0.912	0.584	19.01
12:32	191.3	0.912	0.349	17.48
12:33	191.3	0.912	0.438	18.94
12:34	191.3	0.914	0.452	17.74
12:35	191.3	0.909	0.417	20.13
12:36	191.3	0.910	0.130	22.22
12:37	191.3	0.913	0.324	17.16

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/15/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
12:38	191.3	0.910	0.130	23.30
12:39	191.3	0.913	0.284	15.61
12:40	191.3	0.912	0.276	16.59
12:41	191.3	0.908	0.130	21.82
12:42	191.3	0.910	0.161	20.57
12:44	191.3	0.911	0.195	19.92
12:45	191.3	0.910	0.211	20.09
12:46	191.3	0.914	0.370	17.46
12:47	191.3	0.910	0.184	20.81
12:48	191.3	0.912	0.136	19.88
12:49	191.3	0.912	0.268	17.86
12:50	191.3	0.909	0.396	18.66
12:51	191.3	0.911	0.455	18.10
12:52	191.3	0.910	0.410	17.69
12:53	191.3	0.908	0.130	26.86
12:54	191.2	0.912	0.278	17.76
12:55	191.3	0.909	0.232	21.03
12:56	191.3	0.912	0.274	15.40
12:57	191.3	0.909	0.647	18.90
12:58	191.2	0.908	0.544	20.13
12:59	191.2	0.909	0.130	23.18
13:00	191.3	0.913	0.312	14.28
13:01	191.3	0.908	0.240	20.19
13:02	191.3	0.910	0.130	22.02
13:03	191.2	0.908	0.244	20.02
13:04	191.2	0.909	0.130	22.94
13:06	191.2	0.912	0.341	17.17
13:07	191.3	0.911	0.242	15.03
13:08	191.3	0.910	0.242	20.20
13:09	191.3	0.908	0.159	20.83
13:10	191.2	0.908	0.144	20.39
13:11	191.2	0.908	0.130	22.34
13:12	191.2	0.910	0.130	21.56
13:13	191.3	0.912	0.401	16.31
13:14	191.3	0.909	0.130	20.51
13:15	191.3	0.908	0.130	22.89
13:16	191.2	0.910	0.183	19.74
13:17	191.3	0.911	0.171	19.52
13:18	191.3	0.910	0.256	18.03
13:19	191.3	0.911	0.227	15.72
13:20	191.2	0.907	0.153	21.84
13:21	191.2	0.910	0.552	18.31

Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.3	0.917	0.265	19.69

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.84	7.42	0.04
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.00	0.00
Pretest System Cal Response	10.98	10.74	15.12
Posttest System Cal Response	10.97	10.78	15.27
Average Cal Response (C <sub>M</sub> )	10.98	10.76	15.20
Corrected Run Average (Corr)	1.85	7.55	NA
14:02	1.84	7.40	0.10
14:03	1.84	7.41	0.00
14:04	1.86	7.40	0.01
14:05	1.85	7.40	0.13
14:06	1.85	7.41	0.00
14:07	1.82	7.42	0.10
14:08	1.81	7.42	0.00
14:09	1.83	7.42	0.13
14:10	1.86	7.41	0.00
14:11	1.81	7.43	0.00
14:12	1.81	7.42	0.11
14:13	1.83	7.42	0.04
14:14	1.84	7.42	0.07
14:15	1.82	7.43	0.00
14:16	1.82	7.42	0.10
14:17	1.79	7.43	0.00
14:18	1.88	7.41	0.00
14:19	1.84	7.42	0.03
14:20	1.86	7.41	0.00
14:21	1.86	7.41	0.12
14:22	1.89	7.40	0.00
14:23	1.88	7.41	0.10
14:24	1.87	7.41	0.01
14:25	1.89	7.41	0.00
14:26	1.90	7.40	0.07
14:27	1.85	7.43	0.00
14:28	1.86	7.42	0.11
14:29	1.85	7.43	0.00
14:30	1.86	7.42	0.10
14:31	1.86	7.44	0.00
14:32	1.85	7.43	0.00
14:33	1.84	7.44	0.18
14:34	1.83	7.43	0.00
14:35	1.86	7.42	0.06
14:36	1.83	7.43	0.00
14:37	1.85	7.42	0.08
14:38	1.89	7.41	0.01
14:39	1.86	7.44	0.00
14:40	1.80	7.45	0.03
14:41	1.81	7.44	0.00
14:42	1.83	7.44	0.08
14:43	1.81	7.44	0.00
14:44	1.81	7.44	0.04
14:45	1.86	7.42	0.05
14:46	1.84	7.43	0.00
14:47	1.79	7.45	0.07
14:48	1.83	7.43	0.00
14:49	1.82	7.44	0.13

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.84	7.42	0.04
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.00	0.00
Pretest System Cal Response	10.98	10.74	15.12
Posttest System Cal Response	10.97	10.78	15.27
Average Cal Response (C <sub>M</sub> )	10.98	10.76	15.20
Corrected Run Average (Corr)	1.85	7.55	NA

14:50	1.84	7.42	0.00
14:51	1.85	7.42	0.00
14:52	1.86	7.41	0.07
14:53	1.86	7.41	0.00
14:54	1.82	7.43	0.12
14:55	1.85	7.41	0.00
14:56	1.75	7.48	0.07
14:57	1.86	7.42	1.25
14:58	1.90	7.41	0.01
14:59	1.86	7.42	0.09
15:00	1.82	7.44	
15:01	1.85	7.43	
15:02	1.83	7.42	
15:03	1.85	7.42	
15:04	1.85	7.42	
15:05	1.80	7.44	
15:06	1.82	7.43	0.09
15:07	1.79	7.44	0.00
15:08	1.88	7.39	0.06
15:09	1.88	7.40	0.00
15:10	1.84	7.42	0.06
15:11	1.87	7.42	0.00
15:12	1.84	7.42	0.00
15:13	1.83	7.44	0.06
15:14	1.85	7.42	0.00
15:15	1.82	7.44	0.07
15:16	1.82	7.44	0.00
15:17	1.85	7.42	0.01
15:18	1.87	7.42	0.06
15:19	1.87	7.41	0.00
15:20	1.82	7.42	0.07
15:21	1.81	7.42	0.01
15:22	1.84	7.42	0.08
15:23	1.86	7.41	0.00
15:24	1.88	7.41	0.01
15:25	1.83	7.43	0.02
15:26	1.84	7.43	0.00
15:27	1.81	7.44	0.04
15:28	1.78	7.46	0.00
15:29	1.80	7.45	0.05
15:30	1.85	7.43	0.00
15:31	1.86	7.42	0.00
15:32	1.86	7.42	0.03
15:33	1.89	7.42	0.00
15:34	1.86	7.41	0.03
15:35	1.86	7.41	0.00
15:36	1.90	7.40	0.04
15:37	1.88	7.41	0.00

THC Drift Ch

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.84	7.42	0.04
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.00	0.00
Pretest System Cal Response	10.98	10.74	15.12
Posttest System Cal Response	10.97	10.78	15.27
Average Cal Response (C <sub>M</sub> )	10.98	10.76	15.20
Corrected Run Average (Corr)	1.85	7.55	NA

15:38	1.83	7.44	0.02
15:39	1.88	7.42	0.13
15:40	1.86	7.43	0.00
15:41	1.83	7.43	0.10
15:42	1.81	7.44	0.00
15:43	1.84	7.43	0.09
15:44	1.82	7.44	0.02
15:45	1.84	7.43	0.00
15:46	1.85	7.43	0.09
15:47	1.86	7.42	0.00
15:48	1.86	7.41	0.11
15:49	1.87	7.41	0.00
15:50	1.85	7.42	0.07
15:51	1.82	7.43	0.00
15:52	1.81	7.43	0.00
15:53	1.83	7.43	0.03
15:54	1.82	7.43	0.00
15:55	1.84	7.43	0.05
15:56	1.89	7.41	0.00
15:57	1.88	7.41	0.04
15:58	1.85	7.42	0.00
15:59	1.82	7.45	0.00
16:00	1.86	7.42	0.07
16:01	1.86	7.42	0.84
16:02	1.84	7.43	0.10
16:03	1.81	7.44	
16:04	1.81	7.45	
16:05	1.80	7.45	
16:06	1.82	7.42	
16:07	1.81	7.43	
16:08	1.82	7.42	
16:09	1.84	7.41	
16:10	1.83	7.42	0.10
16:11	1.84	7.41	0.00
16:12	1.82	7.42	0.01
16:13	1.80	7.43	0.00
16:14	1.78	7.44	0.08
16:15	1.81	7.41	0.00
16:16	1.82	7.41	0.09
16:17	1.85	7.39	0.00
16:18	1.82	7.41	0.00
16:19	1.83	7.40	0.06
16:20	1.84	7.39	0.00
16:21	1.82	7.41	0.03
16:22	1.83	7.40	0.00
16:23	1.82	7.41	0.11
16:24	1.85	7.40	0.01
16:25	1.86	7.40	0.00

THC Drift Ch

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.84	7.42	0.04
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.00	0.00
Pretest System Cal Response	10.98	10.74	15.12
Posttest System Cal Response	10.97	10.78	15.27
Average Cal Response (C <sub>M</sub> )	10.98	10.76	15.20
Corrected Run Average (Corr)	1.85	7.55	NA
16:26	1.84	7.41	0.05
16:27	1.82	7.42	0.00
16:28	1.79	7.43	0.07
16:29	1.81	7.42	0.00
16:30	1.81	7.42	0.03
16:31	1.82	7.42	0.02
16:32	1.83	7.42	0.00
16:33	1.82	7.42	0.08
16:34	1.82	7.42	0.00
16:35	1.81	7.43	0.04
16:36	1.86	7.40	0.00
16:37	1.85	7.40	0.05
16:38	1.85	7.40	0.06
16:39	1.84	7.40	0.00
16:40	1.83	7.41	0.11
16:41	1.84	7.40	0.00
16:42	1.81	7.41	0.03
16:43	1.85	7.39	0.00
16:44	1.84	7.40	0.02
16:45	1.86	7.39	0.00
16:46	1.85	7.39	0.00
16:47	1.85	7.40	0.02
16:48	1.83	7.41	0.00
16:49	1.83	7.42	0.08
16:50	1.80	7.43	0.00
16:51	1.81	7.43	0.01
16:52	1.85	7.41	0.04
16:53	1.87	7.40	0.00
16:54	1.86	7.40	0.07
16:55	1.83	7.41	0.00
16:56	1.85	7.40	0.02
16:57	1.79	7.46	0.00
16:58	1.88	7.40	0.00
16:59	1.85	7.42	0.01
17:00	1.83	7.43	0.00
17:01	1.88	7.40	0.03
17:02	1.83	7.43	0.00
17:03	1.85	7.42	0.01
17:04	1.83	7.43	0.00
17:05	1.83	7.44	0.00
17:06	1.85	7.43	0.04
17:07	1.87	7.41	0.00
17:08	1.86	7.42	0.01
17:09	1.85	7.42	0.00
17:10	1.86	7.40	0.00
17:11	1.87	7.40	0.03
17:12	1.85	7.41	0.00
17:13	1.85	7.40	0.02

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.84	7.42	0.04
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.00	0.00
Pretest System Cal Response	10.98	10.74	15.12
Posttest System Cal Response	10.97	10.78	15.27
Average Cal Response (C <sub>M</sub> )	10.98	10.76	15.20
Corrected Run Average (Corr)	1.85	7.55	NA

17:14	1.84	7.41	0.00
17:15	1.86	7.41	0.05
17:16	1.83	7.43	0.43
17:17	1.85	7.42	0.03
17:18	1.82	7.43	0.00
17:19	1.82	7.43	0.00
17:20	1.84	7.42	0.03
17:21	1.85	7.41	
17:22	1.84	7.42	
17:23	1.84	7.43	
17:24	1.85	7.42	
17:25	1.80	7.44	
17:26	1.82	7.42	
17:27	1.84	7.41	0.01
17:28	1.84	7.42	0.00
17:29	1.85	7.40	0.00
17:30	1.88	7.39	0.00
17:31	1.82	7.44	0.00
17:32	1.83	7.42	0.02
17:33	1.81	7.44	0.00
17:34	1.84	7.42	0.01
17:35	1.84	7.42	0.00
17:36	1.85	7.42	0.07
17:37	1.84	7.42	0.00
17:38	1.85	7.41	0.00
17:39	1.85	7.41	0.01
17:40	1.87	7.40	0.00
17:41	1.84	7.42	0.01
17:42	1.83	7.42	0.00
17:43	1.80	7.43	0.00
17:44	1.82	7.42	0.00
17:45	1.82	7.43	0.00
17:46	1.83	7.43	0.00
17:47	1.82	7.43	0.00
17:48	1.84	7.41	0.00
17:49	1.84	7.41	0.00
17:50	1.85	7.41	0.00
17:51	1.83	7.42	0.00
17:52	1.85	7.42	0.00
17:53	1.84	7.43	0.02
17:54	1.82	7.44	0.00
17:55	1.84	7.43	0.12
17:56	1.83	7.44	0.00
17:57	1.82	7.44	0.00
17:58	1.83	7.44	0.02
17:59	1.85	7.42	0.00
18:00	1.83	7.43	0.00
18:01	1.85	7.42	0.00

THC Drift Ch

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/15/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.84	7.42	0.04
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.00
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>o</sub> )	0.00	0.00	0.00
Pretest System Cal Response	10.98	10.74	15.12
Posttest System Cal Response	10.97	10.78	15.27
Average Cal Response (C <sub>M</sub> )	10.98	10.76	15.20
Corrected Run Average (Corr)	1.85	7.55	NA
18:02	1.84	7.43	0.00
18:03	1.85	7.41	0.01
18:04	1.85	7.40	0.00
18:05	1.84	7.41	0.01
18:06	1.87	7.39	0.00
18:07	1.85	7.41	0.01



Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/15/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:02	191.1	0.905	0.130	26.69
14:03	191.1	0.910	0.575	18.56
14:04	191.2	0.915	0.310	13.72
14:05	191.3	0.910	0.467	16.66
14:06	191.3	0.912	0.425	18.36
14:07	191.3	0.908	0.658	19.65
14:08	191.3	0.909	0.324	20.30
14:09	191.3	0.913	0.410	15.44
14:10	191.1	0.908	0.130	24.24
14:11	191.2	0.912	0.427	15.32
14:12	191.3	0.910	0.417	20.07
14:13	191.3	0.910	0.491	18.09
14:14	191.3	0.909	0.711	20.05
14:15	191.3	0.911	0.219	20.25
14:16	191.3	0.911	0.347	15.52
14:17	191.3	0.910	0.672	18.59
14:18	191.3	0.910	0.543	19.90
14:19	191.3	0.909	0.242	20.79
14:21	191.3	0.909	0.523	18.93
14:22	191.3	0.911	0.424	15.88
14:23	191.3	0.908	0.238	21.42
14:24	191.3	0.908	0.493	19.01
14:25	191.3	0.909	0.733	19.18
14:26	191.2	0.908	0.130	21.88
14:27	191.3	0.909	0.247	20.29
14:28	191.3	0.908	0.355	19.64
14:29	191.3	0.909	0.346	19.05
14:30	191.3	0.909	0.594	19.91
14:31	191.3	0.909	0.262	20.75
14:32	191.3	0.912	0.503	17.21
14:33	191.3	0.907	0.286	20.57
14:34	191.3	0.908	0.347	19.20
14:35	191.3	0.908	0.398	20.72
14:36	191.1	0.910	0.353	13.72
14:37	191.2	0.908	0.130	23.61
14:38	191.2	0.911	0.372	15.92
14:39	191.3	0.907	0.320	21.23
14:40	191.2	0.907	0.130	24.00
14:41	191.3	0.909	0.255	20.68
14:43	191.4	0.910	0.461	15.96
14:44	191.3	0.911	0.364	16.20
14:45	191.3	0.911	0.411	16.02
14:46	191.3	0.904	0.130	23.50
14:47	191.2	0.909	0.130	22.19
14:48	191.3	0.908	0.147	21.00
14:49	191.3	0.909	0.618	18.09
14:50	191.3	0.909	0.229	20.80
14:51	191.3	0.908	0.238	21.16
14:52	191.3	0.909	0.495	18.63
14:53	191.3	0.911	0.481	16.47
14:54	191.1	0.901	0.130	30.68
14:55	191.1	0.911	0.448	16.38
14:56	191.3	0.912	0.544	16.01
14:57	191.3	0.908	0.339	19.10
15:11	191.3	0.906	0.130	24.16
15:12	191.1	0.913	0.322	16.16

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Date:** 5/15/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
15:13	191.2	0.910	0.574	16.40
15:14	191.3	0.913	0.463	15.90
15:15	191.3	0.911	<u>0.391</u>	15.78
15:16	191.3	0.909	0.410	19.84
15:17	191.2	0.908	0.342	20.39
15:18	191.3	0.910	0.490	17.96
15:19	191.3	0.910	0.450	18.48
15:20	191.3	0.911	0.533	17.11
15:21	191.3	0.910	0.452	18.09
15:22	191.3	0.908	0.794	19.86
15:23	191.3	0.914	0.354	12.97
15:24	191.3	0.906	0.645	18.60
15:26	191.3	0.908	0.698	18.61
15:27	191.3	0.908	0.289	21.57
15:28	191.2	0.910	0.244	20.28
15:29	191.3	0.909	0.280	19.01
15:30	191.3	0.910	0.512	18.47
15:31	191.3	0.912	0.426	16.97
15:32	191.3	0.906	0.329	20.75
15:33	191.3	0.909	0.564	18.22
15:34	191.3	0.909	0.526	20.25
15:35	191.3	0.907	0.130	22.24
15:36	191.3	0.911	0.360	16.28
15:37	191.3	0.907	0.562	18.91
15:38	191.3	0.908	0.445	19.00
15:39	191.3	0.907	<u>0.130</u>	23.53
15:40	191.3	0.907	0.558	19.03
15:41	191.3	0.907	0.226	21.60
15:42	191.2	0.907	0.161	22.17
15:43	191.3	0.910	<u>0.449</u>	19.03
15:44	191.3	0.903	0.130	26.13
15:45	191.2	0.910	0.210	19.60
15:46	191.3	0.907	0.361	18.89
15:48	191.3	0.909	0.583	17.19
15:49	191.3	0.910	<u>0.392</u>	16.33
15:50	191.3	0.907	0.264	19.34
15:51	191.2	0.904	0.130	25.52
15:52	191.2	0.909	0.149	22.44
15:53	191.2	0.909	0.460	15.39
15:54	191.3	0.909	0.374	16.06
15:55	191.3	0.906	<u>0.382</u>	19.40
15:56	191.2	0.908	0.364	19.50
15:57	191.3	0.909	0.413	15.75
15:58	191.3	0.908	0.176	21.52
15:59	191.2	0.905	0.130	24.02
16:00	191.2	0.909	0.585	17.55
16:01	191.3	0.909	0.276	21.17
16:15	191.4	0.909	0.510	18.49
16:16	191.4	0.911	<u>0.400</u>	17.48
16:17	191.3	0.912	0.367	13.60
16:18	191.3	0.909	0.604	18.84
16:19	191.3	0.909	0.388	15.99
16:20	191.3	0.908	0.227	20.45
16:21	191.3	0.911	0.360	18.82
16:22	191.3	0.909	0.393	17.55
16:23	191.4	0.912	0.436	17.61

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/15/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
16:24	191.4	0.906	0.596	20.21
16:25	191.4	0.909	0.337	18.36
16:26	191.3	0.908	0.538	20.28
16:27	191.3	0.911	0.429	16.67
16:28	191.3	0.906	0.219	21.47
16:29	191.3	0.911	0.340	15.96
16:30	191.3	0.906	0.286	20.45
16:32	191.3	0.908	0.528	17.43
16:33	191.3	0.905	0.130	23.34
16:34	191.1	0.907	0.130	21.76
16:35	191.2	0.906	0.130	24.28
16:36	191.3	0.911	0.338	15.06
16:37	191.3	0.907	<u>0.483</u>	18.80
16:38	191.3	0.907	<u>0.188</u>	21.88
16:39	191.3	0.908	<u>0.378</u>	16.95
16:40	191.3	0.906	0.381	19.52
16:41	191.3	0.906	0.130	22.25
16:42	191.2	0.907	0.131	21.99
16:43	191.2	0.908	0.268	20.64
16:44	191.3	0.908	0.380	18.57
16:45	191.3	0.908	<u>0.608</u>	19.58
16:46	191.3	0.908	<u>0.327</u>	19.73
16:47	191.3	0.910	0.391	18.33
16:48	191.3	0.907	0.487	19.74
16:49	191.3	0.911	0.300	15.50
16:50	191.2	0.905	0.155	20.88
16:51	191.2	0.907	0.313	19.85
16:53	191.3	0.908	0.450	17.69
16:54	191.2	0.906	0.184	21.04
16:55	191.3	0.910	0.508	17.50
16:56	191.3	0.904	0.130	23.29
16:57	191.3	0.911	0.317	15.29
16:58	191.3	0.906	0.303	20.34
16:59	191.3	0.909	0.333	19.38
17:00	191.3	0.907	<u>0.229</u>	20.57
17:01	191.2	0.906	0.496	17.48
17:02	191.2	0.907	0.274	20.37
17:03	191.3	0.909	0.570	17.24
17:04	191.3	0.906	0.232	21.01
17:05	191.2	0.908	0.473	18.76
17:06	191.1	0.904	0.130	25.90
17:07	191.2	0.908	0.249	21.20
17:08	191.2	0.913	0.441	14.16
17:09	191.1	0.905	0.722	17.79
17:10	191.2	0.909	<u>0.525</u>	19.72
17:11	191.2	0.908	0.380	18.42
17:12	191.3	0.909	0.457	17.76
17:13	191.2	0.904	0.130	22.96
17:15	191.2	0.907	0.348	19.80
17:16	191.2	0.908	0.369	18.83
17:17	191.2	0.905	0.198	21.73
17:30	191.3	0.911	<u>0.362</u>	14.40
17:31	191.3	0.909	0.260	15.18
17:32	191.3	0.909	0.264	17.27
17:33	191.3	0.910	0.364	16.29
17:34	191.3	0.912	0.342	15.12

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Date:** 5/15/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
17:35	191.2	0.906	0.199	20.68
17:37	191.2	0.911	0.222	15.29
17:38	191.3	0.906	0.259	20.05
17:39	191.2	0.908	0.246	18.62
17:40	191.2	0.907	0.487	18.05
17:41	191.3	0.907	0.424	19.60
17:42	191.3	0.907	0.267	19.77
17:43	191.3	0.909	0.341	16.86
17:44	191.3	0.904	0.130	23.02
17:45	191.3	0.908	0.367	18.09
17:46	191.3	0.906	0.393	19.33
17:47	191.3	0.903	0.130	22.74
17:48	191.2	0.909	<u>0.283</u>	15.73
17:49	191.2	0.903	0.130	24.37
17:50	191.2	0.908	0.431	19.16
17:51	191.2	0.906	<u>0.236</u>	20.91
17:52	191.3	0.909	0.357	14.85
17:53	191.3	0.904	<u>0.354</u>	20.15
17:54	191.1	0.910	0.342	14.77
17:55	191.2	0.902	0.130	23.46
17:56	191.2	0.906	0.130	22.54
17:57	191.3	0.906	0.500	18.10
17:59	191.3	0.908	0.509	19.56
18:00	191.3	0.908	<u>0.337</u>	15.21
18:01	191.3	0.903	<u>0.130</u>	26.10
18:02	191.3	0.910	0.334	16.65
18:03	191.3	0.905	0.130	23.29
18:04	191.3	0.910	0.404	16.14
18:05	191.3	0.908	<u>0.387</u>	17.57
18:06	191.3	0.907	0.565	15.97
18:07	191.3	0.904	<u>0.130</u>	25.13
Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.3	0.908	0.355	19.23

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
<b>Uncorrected Run Average (C<sub>obs</sub>)</b>	1.73	7.62	0.01
<b>Cal Gas Concentration (C<sub>MA</sub>)</b>	11.02	10.95	15.00
<b>Pretest System Zero Response</b>	0.00	0.06	0.00
<b>Posttest System Zero Response</b>	0.00	0.00	0.01
<b>Average Zero Response (C<sub>o</sub>)</b>	0.00	0.03	0.01
<b>Pretest System Cal Response</b>	10.94	10.91	15.03
<b>Posttest System Cal Response</b>	10.96	10.97	14.98
<b>Average Cal Response (C<sub>M</sub>)</b>	10.95	10.94	15.01
<b>Corrected Run Average (Corr)</b>	1.74	7.62	NA
7:06	1.80	7.52	0.00
7:07	1.79	7.51	0.00
7:08	1.74	7.53	0.01
7:09	1.74	7.53	0.00
7:10	1.74	7.54	0.01
7:11	1.77	7.52	0.00
7:12	1.73	7.55	0.00
7:13	1.76	7.53	0.00
7:14	1.75	7.54	0.00
7:15	1.76	7.54	0.04
7:16	1.76	7.53	0.00
7:17	1.76	7.53	0.04
7:18	1.76	7.53	0.15
7:19	1.75	7.55	0.00
7:20	1.73	7.56	0.03
7:21	1.78	7.53	0.00
7:22	1.78	7.52	0.05
7:23	1.76	7.54	0.00
7:24	1.76	7.53	0.00
7:25	1.78	7.53	0.00
7:26	1.81	7.52	0.00
7:27	1.76	7.55	0.01
7:28	1.74	7.56	0.00
7:29	1.72	7.57	0.01
7:30	1.74	7.56	0.00
7:31	1.75	7.56	0.00
7:32	1.73	7.57	0.02
7:33	1.73	7.58	0.00
7:34	1.72	7.59	0.01
7:35	1.75	7.57	0.00
7:36	1.76	7.57	0.00
7:37	1.74	7.58	0.01
7:38	1.77	7.57	0.18
7:39	1.75	7.58	0.48
7:40	1.73	7.60	0.00
7:41	1.74	7.59	0.02
7:42	1.74	7.59	0.00
7:43	1.74	7.59	0.02
7:44	1.75	7.60	0.00
7:45	1.75	7.60	0.00
7:46	1.74	7.60	0.04
7:47	1.73	7.61	0.00
7:48	1.76	7.59	0.00
7:49	1.72	7.61	0.00
7:50	1.76	7.60	0.00
7:51	1.74	7.62	0.01
7:52	1.75	7.60	0.00
7:53	1.74	7.62	0.02

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.62	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.01
Average Zero Response (C <sub>0</sub> )	0.00	0.03	0.01
Pretest System Cal Response	10.94	10.91	15.03
Posttest System Cal Response	10.96	10.97	14.98
Average Cal Response (C <sub>M</sub> )	10.95	10.94	15.01
Corrected Run Average (Corr)	1.74	7.62	NA

7:54	1.76	7.60	0.00
7:55	1.73	7.61	0.01
7:56	1.72	7.62	0.00
7:57	1.74	7.61	0.00
7:58	1.76	7.60	0.01
7:59	1.76	7.59	
8:00	1.72	7.62	
8:01	1.79	7.58	
8:02	1.76	7.60	
8:03	1.73	7.62	
8:04	1.74	7.62	
8:05	1.71	7.64	0.01
8:06	1.75	7.61	0.00
8:07	1.78	7.61	0.00
8:08	1.77	7.62	0.00
8:09	1.73	7.63	0.01
8:10	1.75	7.62	0.00
8:11	1.71	7.64	0.00
8:12	1.76	7.61	0.02
8:13	1.77	7.62	0.00
8:14	1.77	7.62	0.00
8:15	1.74	7.63	0.00
8:16	1.71	7.65	0.00
8:17	1.74	7.63	0.00
8:18	1.74	7.63	0.00
8:19	1.72	7.63	0.01
8:20	1.69	7.65	0.00
8:21	1.72	7.63	0.01
8:22	1.74	7.62	0.00
8:23	1.73	7.63	0.00
8:24	1.72	7.63	0.01
8:25	1.72	7.63	0.00
8:26	1.70	7.63	0.01
8:27	1.72	7.63	0.00
8:28	1.74	7.63	0.00
8:29	1.70	7.64	0.00
8:30	1.69	7.65	0.00
8:31	1.68	7.65	0.00
8:32	1.70	7.63	0.00
8:33	1.70	7.62	0.00
8:34	1.74	7.61	0.00
8:35	1.72	7.62	0.00
8:36	1.74	7.61	0.00
8:37	1.74	7.61	0.02
8:38	1.76	7.60	0.05
8:39	1.76	7.61	0.00
8:40	1.73	7.63	0.00
8:41	1.71	7.62	0.01

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Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.62	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.01
Average Zero Response (C <sub>0</sub> )	0.00	0.03	0.01
Pretest System Cal Response	10.94	10.91	15.03
Posttest System Cal Response	10.96	10.97	14.98
Average Cal Response (C <sub>M</sub> )	10.95	10.94	15.01
Corrected Run Average (Corr)	1.74	7.62	NA

8:42	1.71	7.63	0.00
8:43	1.73	7.62	0.02
8:44	1.72	7.63	0.00
8:45	1.73	7.62	0.02
8:46	1.75	7.62	0.00
8:47	1.74	7.62	0.02
8:48	1.71	7.63	0.02
8:49	1.72	7.62	0.00
8:50	1.73	7.62	0.00
8:51	1.75	7.62	0.00
8:52	1.73	7.63	0.01
8:53	1.76	7.61	0.00
8:54	1.76	7.62	0.00
8:55	1.75	7.62	0.00
8:56	1.74	7.63	0.00
8:57	1.73	7.63	0.01
8:58	1.72	7.63	0.00
8:59	1.70	7.64	0.04
9:00	1.70	7.64	0.00
9:01	1.68	7.67	0.00
9:02	1.73	7.63	0.00
9:03	1.75	7.62	Hourly THC I
9:04	1.76	7.62	
9:05	1.70	7.66	
9:06	1.76	7.63	
9:07	1.73	7.64	
9:08	1.74	7.63	
9:09	1.71	7.65	
9:10	1.72	7.64	
9:11	1.70	7.64	0.02
9:12	1.70	7.64	0.00
9:13	1.69	7.64	0.00
9:14	1.71	7.64	0.00
9:15	1.72	7.63	0.00
9:16	1.73	7.64	0.00
9:17	1.73	7.63	0.00
9:18	1.76	7.61	0.03
9:19	1.75	7.61	0.00
9:20	1.79	7.59	0.00
9:21	1.83	7.58	0.00
9:22	1.73	7.64	0.00
9:23	1.73	7.63	0.00
9:24	1.74	7.62	0.00
9:25	1.72	7.64	0.00
9:26	1.72	7.64	0.00
9:27	1.69	7.65	0.00
9:28	1.71	7.64	0.00
9:29	1.71	7.64	0.00

Hourly THC I

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.62	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.01
Average Zero Response (C <sub>0</sub> )	0.00	0.03	0.01
Pretest System Cal Response	10.94	10.91	15.03
Posttest System Cal Response	10.96	10.97	14.98
Average Cal Response (C <sub>M</sub> )	10.95	10.94	15.01
Corrected Run Average (Corr)	1.74	7.62	NA
9:30	1.73	7.63	0.00
9:31	1.74	7.62	0.00
9:32	1.76	7.61	0.00
9:33	1.72	7.63	0.00
9:34	1.72	7.63	0.00
9:35	1.72	7.63	0.02
9:36	1.71	7.64	0.00
9:37	1.73	7.62	0.00
9:38	1.73	7.63	0.00
9:39	1.71	7.64	0.00
9:40	1.73	7.64	0.00
9:41	1.73	7.64	0.00
9:42	1.74	7.63	0.00
9:43	1.73	7.63	0.00
9:44	1.71	7.65	0.00
9:45	1.73	7.64	0.01
9:46	1.71	7.65	0.00
9:47	1.73	7.64	0.01
9:48	1.69	7.64	0.00
9:49	1.72	7.63	0.00
9:50	1.69	7.64	0.00
9:51	1.66	7.66	0.01
9:52	1.68	7.65	0.00
9:53	1.69	7.65	0.00
9:54	1.68	7.66	0.03
9:55	1.69	7.65	0.00
9:56	1.64	7.68	0.01
9:57	1.64	7.68	0.00
9:58	1.66	7.67	0.00
9:59	1.65	7.67	0.01
10:00	1.68	7.67	0.00
10:01	1.72	7.64	0.04
10:02	1.71	7.65	0.00
10:03	1.68	7.66	0.00
10:04	1.68	7.68	0.01
10:05	1.68	7.66	0.00
10:06	1.71	7.66	0.00
10:07	1.71	7.68	0.00
10:08	1.69	7.67	0.03
10:09	1.70	7.66	0.00
10:10	1.67	7.67	0.00
10:11	1.65	7.69	Hourly THC I
10:12	1.68	7.67	
10:13	1.69	7.67	
10:14	1.72	7.65	
10:15	1.71	7.65	
10:16	1.71	7.65	
10:17	1.70	7.66	
10:18			



**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
<b>Uncorrected Run Average (C<sub>obs</sub>)</b>	1.73	7.62	0.01
<b>Cal Gas Concentration (C<sub>MA</sub>)</b>	11.02	10.95	15.00
<b>Pretest System Zero Response</b>	0.00	0.06	0.00
<b>Posttest System Zero Response</b>	0.00	0.00	0.01
<b>Average Zero Response (C<sub>0</sub>)</b>	0.00	0.03	0.01
<b>Pretest System Cal Response</b>	10.94	10.91	15.03
<b>Posttest System Cal Response</b>	10.96	10.97	14.98
<b>Average Cal Response (C<sub>M</sub>)</b>	10.95	10.94	15.01
<b>Corrected Run Average (Corr)</b>	1.74	7.62	NA
10:18	1.71	7.65	0.00
10:19	1.72	7.66	0.00
10:20	1.72	7.64	0.00
10:21	1.75	7.62	0.00
10:22	1.76	7.62	0.00
10:23	1.72	7.64	0.00
10:24	1.69	7.65	0.00
10:25	1.68	7.66	0.01
10:26	1.67	7.66	0.00
10:27	1.63	7.67	0.00
10:28	1.68	7.65	0.00
10:29	1.71	7.64	0.00
10:30	1.73	7.63	0.00
10:31	1.71	7.63	0.00
10:32	1.75	7.61	0.00
10:33	1.75	7.61	0.00
10:34	1.68	7.66	0.02
10:35	1.72	7.65	0.00
10:36	1.72	7.64	0.00
10:37	1.72	7.63	0.00
10:38	1.70	7.65	0.00
10:39	1.72	7.64	0.00
10:40	1.70	7.65	0.00
10:41	1.69	7.66	0.01
10:42	1.72	7.64	0.00
10:43	1.70	7.65	0.00
10:44	1.71	7.64	0.00
10:45	1.73	7.64	0.00
10:46	1.72	7.64	0.00
10:47	1.71	7.65	0.00
10:48	1.72	7.64	0.00
10:49	1.70	7.65	0.00
10:50	1.74	7.62	0.00
10:51	1.72	7.63	0.01
10:52	1.72	7.64	0.00
10:53	1.72	7.63	0.02
10:54	1.72	7.64	0.00
10:55	1.73	7.64	0.00
10:56	1.73	7.64	0.00
10:57	1.73	7.64	0.00
10:58	1.72	7.65	0.00
10:59	1.77	7.62	0.00
11:00	1.74	7.64	0.00
11:01	1.71	7.64	0.00
11:02	1.70	7.65	0.00
11:03	1.74	7.63	0.00
11:04	1.74	7.63	0.00
11:05	1.72	7.64	0.00

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.62	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.01
Average Zero Response (C <sub>o</sub> )	0.00	0.03	0.01
Pretest System Cal Response	10.94	10.91	15.03
Posttest System Cal Response	10.96	10.97	14.98
Average Cal Response (C <sub>M</sub> )	10.95	10.94	15.01
Corrected Run Average (Corr)	1.74	7.62	NA
11:06	1.73	7.64	0.00
11:07	1.72	7.65	0.00
11:08	1.72	7.65	0.00
11:09	1.70	7.66	0.00
11:10	1.73	7.65	0.00

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/16/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
7:06	191.3	0.911	0.223	12.99
7:07	191.2	0.908	<u>0.130</u>	19.66
7:08	191.2	0.909	<u>0.130</u>	19.88
7:09	191.2	0.909	0.227	18.09
7:10	191.3	0.911	0.349	18.70
7:11	191.2	0.909	0.335	18.27
7:12	191.3	0.910	0.340	18.28
7:13	191.3	0.909	0.252	16.08
7:14	191.3	0.910	0.292	16.98
7:15	191.3	0.909	0.307	18.99
7:17	191.3	0.909	0.382	19.02
7:18	191.3	0.906	0.339	20.53
7:19	191.3	0.909	0.199	18.10
7:20	191.3	0.907	<u>0.130</u>	21.37
7:21	191.3	0.906	<u>0.130</u>	22.77
7:22	191.3	0.910	0.197	15.99
7:23	191.3	0.907	0.292	18.89
7:24	191.3	0.907	<u>0.130</u>	20.86
7:25	191.3	0.908	<u>0.130</u>	20.62
7:26	191.3	0.905	<u>0.130</u>	21.27
7:27	191.3	0.908	0.379	18.84
7:28	191.3	0.905	<u>0.130</u>	23.41
7:29	191.3	0.907	0.137	19.87
7:30	191.3	0.907	<u>0.130</u>	20.48
7:31	191.3	0.909	0.135	18.79
7:32	191.3	0.904	<u>0.130</u>	22.85
7:33	191.3	0.909	<u>0.130</u>	19.65
7:34	191.4	0.907	0.246	17.71
7:35	191.3	0.908	<u>0.130</u>	21.33
7:36	191.3	0.908	0.316	18.08
7:37	191.3	0.905	<u>0.130</u>	21.68
7:39	191.3	0.907	<u>0.130</u>	20.87
7:40	191.4	0.910	0.151	19.47
7:41	191.4	0.911	0.146	15.60
7:42	191.4	0.906	<u>0.130</u>	22.76
7:43	191.4	0.907	0.137	21.78
7:44	191.4	0.907	<u>0.130</u>	20.58
7:45	191.4	0.907	0.175	19.31
7:46	191.4	0.909	0.138	19.48
7:47	191.4	0.909	0.221	18.31
7:48	191.3	0.907	0.316	17.20
7:49	191.3	0.905	<u>0.130</u>	20.89
7:50	191.3	0.906	<u>0.130</u>	22.62
7:51	191.3	0.906	<u>0.130</u>	22.29
7:52	191.3	0.910	0.346	17.60
7:53	191.3	0.907	0.195	19.62
7:54	191.3	0.908	0.181	18.96
7:55	191.3	0.908	0.648	18.50
7:56	191.3	0.907	0.457	20.24
7:57	191.3	0.909	0.169	16.48
7:58	191.4	0.909	0.365	18.61
8:00	191.4	0.905	<u>0.130</u>	21.41
8:09	191.4	0.906	0.190	19.71
8:10	191.4	0.908	0.225	18.10
8:11	191.4	0.911	0.251	13.76
8:12	191.4	0.908	0.205	14.96

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/16/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
8:13	191.3	0.902	0.130	29.48
8:14	191.2	0.910	0.154	19.85
8:15	191.3	0.906	0.153	19.26
8:16	191.3	0.909	0.341	18.51
8:17	191.4	0.909	0.349	17.59
8:18	191.4	0.906	0.130	21.57
8:19	191.4	0.909	0.299	17.17
8:20	191.4	0.906	0.148	20.91
8:22	191.3	0.909	0.130	19.78
8:23	191.4	0.907	0.399	17.66
8:24	191.4	0.908	0.182	19.61
8:25	191.4	0.908	0.193	18.80
8:26	191.4	0.906	0.425	20.10
8:27	191.4	0.911	0.130	12.71
8:28	191.1	0.901	0.130	25.14
8:29	191.2	0.909	0.518	19.17
8:30	191.3	0.907	0.313	17.61
8:31	191.3	0.907	0.405	13.97
8:32	191.3	0.909	0.476	17.72
8:33	191.4	0.907	0.222	16.02
8:34	191.3	0.903	0.130	22.61
8:35	191.4	0.907	0.201	19.70
8:36	191.4	0.906	0.130	22.51
8:37	191.4	0.905	0.130	22.62
8:38	191.4	0.909	0.338	17.53
8:39	191.4	0.906	0.130	20.93
8:40	191.4	0.907	0.130	23.01
8:41	191.4	0.909	0.182	15.04
8:42	191.4	0.906	0.130	21.85
8:44	191.4	0.906	0.130	20.95
8:45	191.3	0.908	0.130	19.61
8:46	191.3	0.906	0.327	17.68
8:47	191.4	0.906	0.130	20.93
8:48	191.3	0.908	0.396	19.14
8:49	191.3	0.906	0.417	19.87
8:50	191.3	0.906	0.169	20.31
8:51	191.4	0.906	0.136	20.68
8:52	191.4	0.908	0.235	18.16
8:53	191.4	0.907	0.439	19.46
8:54	191.3	0.905	0.130	23.68
8:55	191.3	0.909	0.419	18.36
8:56	191.3	0.906	0.362	19.75
8:57	191.3	0.908	0.330	17.76
8:58	191.3	0.904	0.130	20.99
8:59	191.3	0.906	0.130	23.97
9:00	191.2	0.910	0.286	16.36
9:01	191.3	0.906	0.144	20.23
9:02	191.3	0.909	0.130	20.21
9:03	191.3	0.906	0.153	20.90
9:15	191.4	0.910	0.164	14.50
9:16	191.3	0.904	0.130	24.01
9:17	191.3	0.912	0.139	14.06
9:18	191.3	0.908	0.474	17.20
9:19	191.3	0.909	0.315	16.82
9:20	191.4	0.909	0.130	20.91
9:21	191.4	0.908	0.448	17.82

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Date:** 5/16/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:22	191.4	0.909	0.341	18.04
9:23	191.4	0.908	0.254	16.71
9:24	191.3	0.905	0.130	24.71
9:25	191.3	0.911	0.170	15.35
9:26	191.3	0.906	0.151	20.46
9:28	191.3	0.908	0.171	19.23
9:29	191.3	0.908	0.370	18.94
9:30	191.3	0.908	0.387	19.65
9:31	191.3	0.907	0.241	19.80
9:32	191.3	0.909	0.312	15.64
9:33	191.3	0.910	0.340	18.99
9:34	191.3	0.904	0.130	25.05
9:35	191.3	0.909	0.375	18.77
9:36	191.4	0.908	0.280	18.86
9:37	191.4	0.909	0.476	18.59
9:38	191.3	0.906	0.130	21.93
9:39	191.3	0.908	0.130	21.07
9:40	191.4	0.908	0.184	19.80
9:41	191.4	0.909	0.160	18.79
9:42	191.4	0.907	0.310	18.16
9:43	191.4	0.908	0.387	20.68
9:44	191.4	0.906	0.319	18.77
9:45	191.4	0.909	0.338	18.25
9:46	191.3	0.903	0.130	23.44
9:47	191.3	0.908	0.166	20.68
9:48	191.3	0.909	0.199	18.48
9:50	191.4	0.907	0.354	16.56
9:51	191.3	0.902	0.130	24.56
9:52	191.3	0.908	0.209	19.58
9:53	191.4	0.908	0.184	18.20
9:54	191.4	0.907	0.130	20.93
9:55	191.4	0.906	0.130	21.08
9:56	191.4	0.909	0.166	19.91
9:57	191.4	0.907	0.130	19.53
9:58	191.4	0.908	0.211	15.56
9:59	191.4	0.905	0.130	20.37
10:00	191.4	0.905	0.130	21.36
10:01	191.3	0.906	0.130	23.15
10:02	191.4	0.906	0.146	19.83
10:03	191.3	0.905	0.130	25.31
10:04	191.3	0.910	0.414	18.20
10:05	191.4	0.908	0.271	13.49
10:06	191.4	0.907	0.130	19.96
10:07	191.4	0.907	0.162	20.01
10:08	191.4	0.907	0.130	20.96
10:09	191.4	0.905	0.185	20.08
10:11	191.4	0.907	0.264	17.74
10:12	191.4	0.908	0.247	17.02
10:22	191.4	0.907	0.355	18.24
10:23	191.4	0.908	0.327	18.19
10:24	191.4	0.910	0.130	15.40
10:25	191.4	0.908	0.210	16.47
10:26	191.4	0.910	0.268	18.83
10:27	191.4	0.906	0.365	17.90
10:28	191.4	0.907	0.367	18.91
10:29	191.4	0.907	0.516	19.07

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Date:** 5/16/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:30	191.3	0.906	0.306	20.33
10:31	191.3	0.907	<u>0.130</u>	20.92
10:33	191.4	0.908	0.477	18.37
10:34	191.4	0.908	0.274	18.00
10:35	191.4	0.906	0.311	19.58
10:36	191.3	0.907	<u>0.130</u>	19.99
10:37	191.3	0.906	<u>0.130</u>	19.47
10:38	191.3	0.906	<u>0.130</u>	21.12
10:39	191.3	0.908	0.287	17.84
10:40	191.3	0.908	0.296	17.69
10:41	191.4	0.907	0.315	19.20
10:42	191.4	0.906	0.220	18.63
10:43	191.4	0.903	<u>0.130</u>	25.60
10:44	191.4	0.909	0.292	18.75
10:45	191.4	0.904	<u>0.130</u>	22.62
10:46	191.4	0.909	0.370	18.61
10:47	191.4	0.905	0.253	18.75
10:48	191.4	0.906	<u>0.130</u>	20.85
10:49	191.3	0.902	<u>0.130</u>	24.75
10:50	191.3	0.909	0.398	18.48
10:51	191.4	0.908	0.402	19.93
10:52	191.4	0.908	0.270	18.38
10:53	191.4	0.905	0.388	20.68
10:55	191.4	0.906	<u>0.130</u>	21.56
10:56	191.4	0.908	<u>0.130</u>	21.14
10:57	191.3	0.907	<u>0.130</u>	20.76
10:58	191.3	0.907	0.422	17.14
10:59	191.4	0.907	<u>0.130</u>	22.44
11:00	191.4	0.909	0.380	19.21
11:01	191.4	0.906	0.476	20.17
11:02	191.4	0.910	0.186	16.52
11:03	191.4	0.905	0.429	18.60
11:04	191.4	0.908	0.670	17.61
11:05	191.3	0.907	0.316	18.76
11:06	191.3	0.904	<u>0.130</u>	24.35
11:07	191.4	0.909	0.345	17.88
11:08	191.4	0.906	0.480	18.42
11:09	191.4	0.909	0.374	17.20
11:10	191.4	0.908	0.325	18.03
<b>Parameter</b>	<b>Temperature</b>	<b>Pressure</b>	<b>HCN - Outlet</b>	<b>BWS - Outlet</b>
<b>Run Average</b>	191.3	0.907	0.239	19.45

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
<b>Uncorrected Run Average (C<sub>obs</sub>)</b>	1.67	7.62	0.00
<b>Cal Gas Concentration (C<sub>MA</sub>)</b>	11.02	10.95	15.00
<b>Pretest System Zero Response</b>	0.00	0.00	0.01
<b>Posttest System Zero Response</b>	0.00	0.00	0.00
<b>Average Zero Response (C<sub>0</sub>)</b>	0.00	0.00	0.01
<b>Pretest System Cal Response</b>	10.96	10.97	14.98
<b>Posttest System Cal Response</b>	10.96	10.98	15.24
<b>Average Cal Response (C<sub>M</sub>)</b>	10.96	10.98	15.11
<b>Corrected Run Average (Corr)</b>	1.68	7.61	NA
11:40	1.68	7.62	0.00
11:41	1.69	7.62	0.00
11:42	1.64	7.64	0.00
11:43	1.67	7.63	0.01
11:44	1.68	7.62	0.00
11:45	1.69	7.60	0.08
11:46	1.71	7.60	0.00
11:47	1.71	7.60	0.00
11:48	1.73	7.58	0.00
11:49	1.72	7.59	0.00
11:50	1.72	7.59	0.02
11:51	1.71	7.60	0.00
11:52	1.71	7.59	0.00
11:53	1.70	7.60	0.00
11:54	1.70	7.60	0.00
11:55	1.72	7.59	0.00
11:56	1.69	7.61	0.00
11:57	1.73	7.59	0.00
11:58	1.70	7.60	0.00
11:59	1.71	7.60	0.01
12:00	1.72	7.60	0.00
12:01	1.72	7.60	0.00
12:02	1.73	7.58	0.00
12:03	1.72	7.60	0.00
12:04	1.74	7.59	0.00
12:05	1.75	7.58	0.00
12:06	1.70	7.60	0.00
12:07	1.68	7.62	0.00
12:08	1.67	7.61	0.00
12:09	1.66	7.62	0.03
12:10	1.67	7.61	0.00
12:11	1.66	7.60	0.00
12:12	1.68	7.58	0.00
12:13	1.72	7.57	0.00
12:14	1.71	7.58	0.00
12:15	1.73	7.56	0.00
12:16	1.70	7.57	0.00
12:17	1.68	7.58	0.00
12:18	1.71	7.57	0.00
12:19	1.76	7.55	0.00
12:20	1.74	7.56	0.00
12:21	1.68	7.60	0.00
12:22	1.69	7.59	0.00
12:23	1.71	7.59	0.02
12:24	1.72	7.59	0.00
12:25	1.71	7.59	0.01
12:26	1.70	7.60	0.00
12:27	1.71	7.59	0.00

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.67	7.62	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.01
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.00	0.01
Pretest System Cal Response	10.96	10.97	14.98
Posttest System Cal Response	10.96	10.98	15.24
Average Cal Response (C <sub>M</sub> )	10.96	10.98	15.11
Corrected Run Average (Corr)	1.68	7.61	NA

12:28	1.68	7.61	0.00
12:29	1.72	7.59	0.00
12:30	1.71	7.59	0.00
12:31	1.72	7.59	0.00
12:32	1.74	7.57	0.00
12:33	1.74	7.57	0.00
12:34	1.76	7.56	0.00
12:35	1.76	7.57	0.09
12:36	1.71	7.60	0.00
12:37	1.69	7.61	0.00
12:38	1.69	7.62	0.00
12:39	1.69	7.74	0.01
12:40	1.71	7.62	0.02
12:41	1.68	7.64	
12:42	1.70	7.58	
12:43	1.68	7.60	
12:44	1.74	7.57	
12:45	1.70	7.61	
12:46	1.72	7.59	
12:47	1.67	7.65	
12:48	1.71	7.62	0.00
12:49	1.66	7.65	0.00
12:50	1.70	7.62	0.00
12:51	1.67	7.63	0.01
12:52	1.66	7.64	0.00
12:53	1.65	7.65	0.00
12:54	1.68	7.63	0.00
12:55	1.71	7.60	0.00
12:56	1.68	7.62	0.01
12:57	1.70	7.60	0.00
12:58	1.69	7.60	0.02
12:59	1.70	7.59	0.00
13:00	1.71	7.57	0.00
13:01	1.74	7.55	0.01
13:02	1.71	7.59	0.00
13:03	1.69	7.60	0.00
13:04	1.63	7.63	0.00
13:05	1.62	7.64	0.00
13:06	1.64	7.64	0.00
13:07	1.63	7.65	0.00
13:08	1.65	7.63	0.01
13:09	1.67	7.62	0.00
13:10	1.68	7.61	0.01
13:11	1.66	7.62	0.00
13:12	1.68	7.62	0.00
13:13	1.69	7.61	0.00
13:14	1.69	7.61	0.00
13:15	1.67	7.62	0.00

THC Hourly I



Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.67	7.62	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.01
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.00	0.01
Pretest System Cal Response	10.96	10.97	14.98
Posttest System Cal Response	10.96	10.98	15.24
Average Cal Response (C <sub>M</sub> )	10.96	10.98	15.11
Corrected Run Average (Corr)	1.68	7.61	NA
13:16	1.65	7.64	0.00
13:17	1.64	7.64	0.00
13:18	1.66	7.64	0.00
13:19	1.66	7.64	0.00
13:20	1.66	7.64	0.01
13:21	1.65	7.64	0.00
13:22	1.66	7.62	0.05
13:23	1.66	7.63	0.00
13:24	1.66	7.63	0.00
13:25	1.65	7.61	0.01
13:26	1.70	7.58	0.00
13:27	1.69	7.60	0.02
13:28	1.65	7.63	0.00
13:29	1.66	7.62	0.00
13:30	1.63	7.64	0.00
13:31	1.65	7.63	0.00
13:32	1.67	7.62	0.00
13:33	1.66	7.61	0.00
13:34	1.65	7.63	0.00
13:35	1.65	7.62	0.00
13:36	1.66	7.61	0.00
13:37	1.63	7.63	0.00
13:38	1.66	7.61	0.00
13:39	1.66	7.61	0.01
13:40	1.64	7.62	0.00
13:41	1.68	7.60	0.00
13:42	1.64	7.63	0.00
13:43	1.62	7.64	0.00
13:44	1.63	7.63	0.00
13:45	1.64	7.62	0.00
13:46	1.65	7.62	THC Hourly I
13:47	1.64	7.62	
13:48	1.67	7.60	
13:49	1.69	7.58	
13:50	1.66	7.60	
13:51	1.67	7.60	
13:52	1.67	7.60	
13:53	1.68	7.59	
13:54	1.69	7.58	
13:55	1.67	7.60	
13:56	1.64	7.61	0.00
13:57	1.66	7.61	0.00
13:58	1.64	7.61	0.01
13:59	1.66	7.61	0.00
14:00	1.62	7.63	0.02
14:01	1.65	7.61	0.00
14:02	1.64	7.62	0.00
14:03	1.65	7.61	0.00

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.67	7.62	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.01
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.00	0.01
Pretest System Cal Response	10.96	10.97	14.98
Posttest System Cal Response	10.96	10.98	15.24
Average Cal Response (C <sub>M</sub> )	10.96	10.98	15.11
Corrected Run Average (Corr)	1.68	7.61	NA
14:04	1.63	7.63	0.00
14:05	1.66	7.61	0.04
14:06	1.67	7.61	0.00
14:07	1.65	7.62	0.00
14:08	1.63	7.63	0.00
14:09	1.64	7.62	0.00
14:10	1.67	7.62	0.00
14:11	1.66	7.61	0.00
14:12	1.66	7.61	0.00
14:13	1.69	7.60	0.00
14:14	1.67	7.61	0.00
14:15	1.63	7.64	0.00
14:16	1.65	7.63	0.00
14:17	1.61	7.66	0.00
14:18	1.62	7.64	0.00
14:19	1.61	7.66	0.00
14:20	1.64	7.64	0.00
14:21	1.65	7.64	0.00
14:22	1.65	7.63	0.00
14:23	1.65	7.64	0.00
14:24	1.67	7.63	0.00
14:25	1.66	7.63	0.02
14:26	1.68	7.62	0.00
14:27	1.67	7.63	0.01
14:28	1.70	7.62	0.00
14:29	1.64	7.65	0.03
14:30	1.63	7.66	0.00
14:31	1.67	7.64	0.00
14:32	1.64	7.66	0.00
14:33	1.64	7.66	0.00
14:34	1.65	7.65	0.06
14:35	1.65	7.65	0.00
14:36	1.65	7.64	0.00
14:37	1.68	7.63	0.00
14:38	1.66	7.65	0.00
14:39	1.67	7.64	0.01
14:40	1.68	7.64	0.00
14:41	1.59	7.70	0.01
14:42	1.65	7.67	0.00
14:43	1.62	7.69	0.00
14:44	1.69	7.64	0.00
14:45	1.68	7.65	0.00
14:46	1.64	7.66	0.00
14:47	1.67	7.65	0.00
14:48	1.66	7.65	0.00
14:49	1.67	7.65	0.00
14:50	1.63	7.67	0.00
14:51	1.62	7.68	0.03

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.67	7.62	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.01
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.00	0.00	0.01
Pretest System Cal Response	10.96	10.97	14.98
Posttest System Cal Response	10.96	10.98	15.24
Average Cal Response (C <sub>M</sub> )	10.96	10.98	15.11
Corrected Run Average (Corr)	1.68	7.61	NA

14:52	1.64	7.66	0.00
14:53	1.62	7.69	0.01
14:54	1.65	7.67	
14:55	1.66	7.66	
14:56	1.68	7.65	
14:57	1.67	7.66	
14:58	1.67	7.65	
14:59	1.65	7.66	
15:00	1.66	7.64	
15:01	1.67	7.64	
15:02	1.67	7.65	0.01
15:03	1.69	7.64	0.00
15:04	1.63	7.67	0.00
15:05	1.64	7.66	0.00
15:06	1.62	7.68	0.00
15:07	1.65	7.66	0.02
15:08	1.62	7.67	0.00
15:09	1.66	7.65	0.00
15:10	1.66	7.66	0.00
15:11	1.70	7.63	0.00
15:12	1.66	7.65	0.00
15:13	1.64	7.65	0.00
15:14	1.64	7.65	0.00
15:15	1.66	7.64	0.02
15:16	1.68	7.64	0.00
15:17	1.64	7.67	0.00
15:18	1.64	7.67	0.00
15:19	1.64	7.67	0.00
15:20	1.65	7.65	0.00
15:21	1.64	7.66	0.00
15:22	1.64	7.67	0.00
15:23	1.63	7.67	0.00
15:24	1.65	7.66	0.00
15:25	1.65	7.66	0.00
15:26	1.65	7.66	0.00
15:27	1.66	7.65	0.00
15:28	1.67	7.64	0.00
15:29	1.66	7.65	0.01
15:30	1.66	7.65	0.00
15:31	1.67	7.64	0.00
15:32	1.65	7.65	0.00
15:33	1.65	7.65	0.00
15:34	1.63	7.66	0.00
15:35	1.64	7.65	0.00
15:36	1.63	7.66	0.00
15:37	1.64	7.66	0.00
15:38	1.63	7.66	0.00
15:39	1.62	7.67	0.00

THC Hourly I

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.67	7.62	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.00	0.00	0.01
Posttest System Zero Response	0.00	0.00	0.00
Average Zero Response (C <sub>o</sub> )	0.00	0.00	0.01
Pretest System Cal Response	10.96	10.97	14.98
Posttest System Cal Response	10.96	10.98	15.24
Average Cal Response (C <sub>M</sub> )	10.96	10.98	15.11
Corrected Run Average (Corr)	1.68	7.61	NA
15:40	1.64	7.65	0.00
15:41	1.65	7.65	0.00
15:42	1.66	7.65	0.00
15:43	1.67	7.64	0.00
15:44	1.64	7.65	0.00
15:45	1.65	7.65	0.00

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/16/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
11:40	191.1	0.908	0.281	18.58
11:41	191.3	0.907	0.449	19.79
11:42	191.3	0.905	0.130	21.04
11:43	191.3	0.909	0.233	18.58
11:44	191.3	0.907	0.361	20.30
11:45	191.3	0.907	0.130	20.87
11:46	191.3	0.910	0.341	17.02
11:47	191.3	0.907	0.352	18.62
11:48	191.3	0.908	0.274	19.83
11:49	191.3	0.904	0.130	22.07
11:50	191.3	0.907	0.130	20.95
11:51	191.3	0.909	0.268	15.05
11:52	191.3	0.904	0.130	23.27
11:54	191.3	0.907	0.130	22.20
11:55	191.3	0.908	0.178	19.53
11:56	191.4	0.908	0.291	15.08
11:57	191.4	0.903	0.130	25.49
11:58	191.3	0.909	0.407	17.60
11:59	191.3	0.905	0.130	21.04
12:00	191.4	0.906	0.385	18.11
12:01	191.4	0.908	0.382	16.64
12:02	191.4	0.900	0.130	28.93
12:03	191.3	0.907	0.130	21.95
12:04	191.3	0.907	0.329	19.49
12:05	191.3	0.907	0.256	19.61
12:06	191.4	0.909	0.328	15.78
12:07	191.4	0.906	0.131	22.29
12:08	191.3	0.908	0.481	19.19
12:09	191.4	0.906	0.543	19.98
12:10	191.3	0.907	0.378	17.65
12:11	191.3	0.908	0.257	19.60
12:12	191.3	0.905	0.130	22.73
12:13	191.3	0.910	0.425	16.96
12:14	191.3	0.905	0.291	19.54
12:16	191.4	0.909	0.314	18.40
12:17	191.3	0.904	0.130	21.84
12:18	191.4	0.906	0.130	21.76
12:19	191.4	0.907	0.461	19.09
12:20	191.4	0.907	0.401	20.10
12:21	191.4	0.907	0.567	16.66
12:22	191.3	0.908	0.130	20.99
12:23	191.3	0.905	0.130	21.85
12:24	191.4	0.907	0.527	17.86
12:25	191.3	0.906	0.141	21.73
12:26	191.4	0.908	0.421	17.52
12:27	191.4	0.907	0.164	21.80
12:28	191.4	0.906	0.493	19.02
12:29	191.4	0.906	0.586	19.08
12:30	191.4	0.906	0.563	19.53
12:31	191.3	0.906	0.200	21.12
12:32	191.4	0.907	0.404	16.98
12:33	191.4	0.908	0.191	20.57
12:34	191.4	0.908	0.328	18.16
12:35	191.4	0.903	0.130	24.52
12:36	191.4	0.907	0.511	15.94
12:38	191.3	0.905	0.130	21.41

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/16/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
12:39	191.4	0.906	0.223	19.61
12:40	191.4	0.906	0.130	22.56
12:41	191.3	0.904	0.130	23.90
12:42	191.3	0.909	0.292	18.85
12:51	191.4	0.911	0.324	7.78
12:52	191.4	0.909	0.278	16.00
12:53	191.4	0.907	0.194	15.31
12:54	191.4	0.906	0.178	21.43
12:55	191.4	0.909	0.461	16.56
12:56	191.3	0.907	0.451	17.98
12:57	191.4	0.908	0.396	18.32
12:58	191.4	0.908	0.275	17.98
13:00	191.4	0.903	0.130	25.08
13:01	191.3	0.909	0.306	17.74
13:02	191.4	0.906	0.601	19.51
13:03	191.4	0.908	0.309	18.85
13:04	191.4	0.905	0.436	19.15
13:05	191.4	0.905	0.130	21.55
13:06	191.4	0.909	0.367	16.96
13:07	191.3	0.905	0.357	18.94
13:08	191.4	0.906	0.351	20.20
13:09	191.3	0.902	0.130	24.95
13:10	191.3	0.906	0.211	20.33
13:11	191.3	0.908	0.228	18.63
13:12	191.3	0.905	0.130	20.94
13:13	191.3	0.905	0.130	21.27
13:14	191.3	0.905	0.130	22.67
13:15	191.3	0.906	0.412	18.98
13:16	191.3	0.905	0.130	23.83
13:17	191.3	0.909	0.391	17.78
13:18	191.3	0.906	0.425	18.15
13:19	191.3	0.907	0.444	20.15
13:20	191.3	0.905	0.244	20.07
13:22	191.3	0.907	0.362	18.28
13:23	191.3	0.905	0.130	23.57
13:24	191.3	0.908	0.340	17.68
13:25	191.3	0.905	0.130	22.39
13:26	191.4	0.909	0.381	14.88
13:27	191.3	0.905	0.544	17.78
13:28	191.3	0.906	0.494	20.62
13:29	191.3	0.906	0.229	19.90
13:30	191.3	0.904	0.130	23.08
13:31	191.4	0.907	0.363	18.72
13:32	191.4	0.904	0.147	21.62
13:33	191.4	0.906	0.495	19.30
13:34	191.4	0.907	0.334	18.46
13:35	191.3	0.902	0.130	27.18
13:36	191.3	0.907	0.390	19.08
13:37	191.4	0.907	0.478	18.74
13:38	191.3	0.905	0.477	19.98
13:39	191.4	0.905	0.199	21.25
13:40	191.4	0.907	0.446	19.05
13:41	191.3	0.907	0.273	19.43
13:42	191.3	0.903	0.130	24.38
13:44	191.3	0.906	0.130	22.46
13:45	191.3	0.906	0.176	20.39

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/16/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
13:46	191.3	0.903	0.130	24.48
13:47	191.3	0.909	0.329	14.98
13:57	191.3	0.907	0.241	19.51
13:58	191.3	0.909	0.226	15.16
13:59	191.3	0.909	0.470	17.95
14:00	191.3	0.907	0.302	16.06
14:01	191.3	0.905	0.130	22.39
14:02	191.4	0.911	0.189	12.11
14:03	191.3	0.903	0.169	19.79
14:05	191.3	0.907	0.562	17.53
14:06	191.3	0.905	0.267	20.29
14:07	191.3	0.907	0.280	17.80
14:08	191.3	0.906	0.517	18.54
14:09	191.4	0.907	0.435	18.41
14:10	191.4	0.904	0.130	21.66
14:11	191.4	0.907	0.365	18.43
14:12	191.4	0.906	0.362	17.77
14:13	191.4	0.904	0.167	21.72
14:14	191.4	0.906	0.226	19.51
14:15	191.4	0.903	0.198	20.44
14:16	191.3	0.906	0.190	20.81
14:17	191.3	0.902	0.130	23.90
14:18	191.4	0.906	0.445	18.10
14:19	191.4	0.906	0.315	17.89
14:20	191.3	0.902	0.130	26.87
14:21	191.3	0.908	0.280	13.69
14:22	191.3	0.904	0.130	22.32
14:23	191.3	0.905	0.152	21.86
14:24	191.3	0.907	0.363	18.32
14:25	191.4	0.903	0.130	24.08
14:27	191.4	0.908	0.366	17.45
14:28	191.4	0.905	0.389	18.10
14:29	191.4	0.904	0.130	23.99
14:30	191.3	0.904	0.130	22.59
14:31	191.3	0.906	0.544	17.64
14:32	191.4	0.908	0.521	17.24
14:33	191.3	0.906	0.531	18.79
14:34	191.4	0.906	0.350	19.77
14:35	191.4	0.908	0.458	16.73
14:36	191.3	0.901	0.130	27.36
14:37	191.3	0.908	0.370	17.80
14:38	191.4	0.905	0.443	18.86
14:39	191.4	0.906	0.510	20.57
14:40	191.4	0.905	0.130	21.53
14:41	191.4	0.904	0.293	20.47
14:42	191.3	0.904	0.320	20.87
14:43	191.4	0.907	0.458	17.09
14:44	191.4	0.906	0.255	19.94
14:45	191.4	0.905	0.199	20.32
14:46	191.4	0.903	0.130	23.70
14:47	191.4	0.907	0.229	20.54
14:49	191.4	0.904	0.229	20.91
14:50	191.4	0.908	0.539	17.85
14:51	191.4	0.905	0.360	20.36
14:52	191.4	0.906	0.311	19.20
14:53	191.4	0.908	0.300	15.68

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Date:** 5/16/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:54	191.3	0.902	0.130	22.42
15:05	191.4	0.907	0.428	16.34
15:06	191.4	0.908	0.320	17.59
15:07	191.4	0.908	0.463	18.50
15:08	191.3	0.907	0.297	14.52
15:09	191.3	0.908	0.252	17.54
15:11	191.4	0.906	0.409	16.90
15:12	191.4	0.906	0.248	21.02
15:13	191.3	0.907	0.249	15.52
15:14	191.3	0.904	0.130	21.03
15:15	191.3	0.908	0.428	17.57
15:16	191.3	0.903	0.130	23.06
15:17	191.4	0.905	0.260	20.47
15:18	191.4	0.907	0.266	18.98
15:19	191.4	0.904	0.392	19.53
15:20	191.4	0.906	0.185	20.94
15:21	191.4	0.908	0.345	13.24
15:22	191.4	0.902	0.130	25.17
15:23	191.4	0.906	0.401	19.19
15:24	191.4	0.902	0.258	20.25
15:25	191.3	0.905	0.198	20.78
15:26	191.4	0.903	0.130	22.54
15:27	191.4	0.906	0.468	18.79
15:28	191.4	0.904	0.509	20.22
15:29	191.4	0.903	0.130	22.25
15:30	191.4	0.904	0.309	19.84
15:31	191.4	0.907	0.275	17.91
15:33	191.3	0.901	0.130	24.14
15:34	191.4	0.905	0.304	19.87
15:35	191.4	0.908	0.263	14.25
15:36	191.4	0.902	0.299	19.65
15:37	191.4	0.905	0.226	21.47
15:38	191.4	0.903	0.531	18.97
15:39	191.4	0.905	0.347	18.21
15:40	191.4	0.902	0.556	20.38
15:41	191.4	0.902	0.130	25.07
15:42	191.3	0.903	0.535	19.24
15:43	191.4	0.906	0.161	21.53
15:44	191.4	0.903	0.554	18.26
15:45	191.4	0.901	0.130	25.27

Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.4	0.906	0.292	19.75



**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.55	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.03	0.01	0.00
Posttest System Zero Response	0.04	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.04	0.01	0.00
Pretest System Cal Response	11.01	10.88	14.99
Posttest System Cal Response	11.02	10.83	15.11
Average Cal Response (C <sub>M</sub> )	11.02	10.86	15.05
Corrected Run Average (Corr)	1.70	7.62	NA
7:00	1.76	7.57	0.00
7:01	1.74	7.57	0.00
7:02	1.75	7.57	0.00
7:03	1.73	7.57	0.00
7:04	1.71	7.58	0.01
7:05	1.71	7.58	0.00
7:06	1.75	7.55	0.00
7:07	1.75	7.57	0.00
7:08	1.72	7.57	0.00
7:09	1.74	7.57	0.00
7:10	1.73	7.57	0.00
7:11	1.76	7.55	0.01
7:12	1.74	7.56	0.00
7:13	1.73	7.57	0.00
7:14	1.77	7.55	0.01
7:15	1.75	7.58	0.00
7:16	1.71	7.60	0.00
7:17	1.71	7.59	0.05
7:18	1.71	7.60	0.00
7:19	1.71	7.59	0.01
7:20	1.72	7.59	0.00
7:21	1.69	7.60	0.00
7:22	1.71	7.58	0.00
7:23	1.73	7.57	0.00
7:24	1.75	7.56	0.00
7:25	1.76	7.56	0.00
7:26	1.72	7.58	0.00
7:27	1.76	7.56	0.33
7:28	1.74	7.58	0.00
7:29	1.71	7.60	0.03
7:30	1.72	7.60	0.03
7:31	1.74	7.59	0.00
7:32	1.73	7.60	0.00
7:33	1.71	7.61	0.00
7:34	1.73	7.59	0.00
7:35	1.72	7.60	0.02
7:36	1.75	7.58	0.00
7:37	1.75	7.58	0.00
7:38	1.73	7.59	0.00
7:39	1.76	7.56	0.00
7:40	1.73	7.58	0.03
7:41	1.74	7.57	0.00
7:42	1.76	7.56	0.00
7:43	1.75	7.57	0.00
7:44	1.74	7.57	0.00
7:45	1.77	7.55	0.00
7:46	1.76	7.56	0.00
7:47	1.74	7.57	0.01

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.55	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.03	0.01	0.00
Posttest System Zero Response	0.04	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.04	0.01	0.00
Pretest System Cal Response	11.01	10.88	14.99
Posttest System Cal Response	11.02	10.83	15.11
Average Cal Response (C <sub>M</sub> )	11.02	10.86	15.05
Corrected Run Average (Corr)	1.70	7.62	NA
7:48	1.71	7.59	0.00
7:49	1.74	7.56	0.01
7:50	1.72	7.57	0.00
7:51	1.72	7.58	0.00
7:52	1.71	7.59	0.00
7:53	1.72	7.59	
7:54	1.71	7.59	
7:55	1.71	7.59	
7:56	1.72	7.58	
7:57	1.70	7.59	
7:58	1.71	7.57	
7:59	1.71	7.57	
8:00	1.70	7.58	
8:01	1.71	7.57	0.01
8:02	1.70	7.58	0.00
8:03	1.71	7.58	0.00
8:04	1.72	7.57	0.00
8:05	1.75	7.57	0.00
8:06	1.72	7.60	0.00
8:07	1.75	7.58	0.00
8:08	1.73	7.58	0.00
8:09	1.70	7.59	0.00
8:10	1.69	7.58	0.00
8:11	1.69	7.58	0.03
8:12	1.70	7.58	0.00
8:13	1.70	7.58	0.00
8:14	1.73	7.56	0.00
8:15	1.70	7.57	0.00
8:16	1.71	7.57	0.00
8:17	1.70	7.57	0.00
8:18	1.70	7.58	0.01
8:19	1.74	7.56	0.00
8:20	1.73	7.56	0.00
8:21	1.73	7.56	0.00
8:22	1.71	7.57	0.00
8:23	1.72	7.57	0.00
8:24	1.73	7.56	0.00
8:25	1.70	7.58	0.00
8:26	1.69	7.58	0.00
8:27	1.69	7.58	0.00
8:28	1.69	7.58	0.00
8:29	1.70	7.57	0.00
8:30	1.70	7.57	0.00
8:31	1.70	7.57	0.00
8:32	1.73	7.56	0.01
8:33	1.71	7.57	0.00
8:34	1.70	7.58	0.00
8:35	1.71	7.57	0.00

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.55	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.03	0.01	0.00
Posttest System Zero Response	0.04	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.04	0.01	0.00
Pretest System Cal Response	11.01	10.88	14.99
Posttest System Cal Response	11.02	10.83	15.11
Average Cal Response (C <sub>M</sub> )	11.02	10.86	15.05
Corrected Run Average (Corr)	1.70	7.62	NA
8:36	1.70	7.58	0.00
8:37	1.68	7.59	0.00
8:38	1.70	7.58	0.00
8:39	1.72	7.57	0.00
8:40	1.70	7.58	0.00
8:41	1.68	7.59	0.00
8:42	1.77	7.53	0.00
8:43	1.78	7.54	0.00
8:44	1.77	7.55	0.00
8:45	1.74	7.57	0.00
8:46	1.72	7.58	0.01
8:47	1.74	7.57	0.00
8:48	1.71	7.59	0.00
8:49	1.74	7.57	0.00
8:50	1.72	7.58	0.01
8:51	1.74	7.56	0.00
8:52	1.72	7.57	0.00
8:53	1.76	7.55	0.00
8:54	1.74	7.57	0.00
8:55	1.74	7.57	0.00
8:56	1.75	7.57	0.00
8:57	1.75	7.57	0.00
8:58	1.74	7.56	0.00
8:59	1.73	7.57	0.00
9:00	1.73	7.57	0.00
9:01	1.77	7.56	0.00
9:02	1.74	7.58	0.00
9:03	1.74	7.58	0.00
9:04	1.71	7.59	0.00
9:05	1.73	7.57	0.00
9:06	1.74	7.56	0.02
9:07	1.74	7.56	0.00
9:08	1.75	7.55	
9:09	1.76	7.54	
9:10	1.77	7.54	
9:11	1.74	7.56	
9:12	1.76	7.54	
9:13	1.76	7.55	
9:14	1.79	7.52	
9:15	1.76	7.55	0.00
9:16	1.75	7.56	0.00
9:17	1.74	7.57	0.00
9:18	1.78	7.54	0.00
9:19	1.78	7.54	0.00
9:20	1.76	7.56	0.00
9:21	1.75	7.56	0.00
9:22	1.81	7.52	0.00
9:23	1.78	7.54	0.00

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.55	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.03	0.01	0.00
Posttest System Zero Response	0.04	0.00	0.00
Average Zero Response (C <sub>0</sub> )	0.04	0.01	0.00
Pretest System Cal Response	11.01	10.88	14.99
Posttest System Cal Response	11.02	10.83	15.11
Average Cal Response (C <sub>M</sub> )	11.02	10.86	15.05
Corrected Run Average (Corr)	1.70	7.62	NA
9:24	1.77	7.54	0.00
9:25	1.77	7.53	0.00
9:26	1.80	7.51	0.00
9:27	1.76	7.53	0.00
9:28	1.75	7.54	0.00
9:29	1.73	7.54	0.00
9:30	1.70	7.56	0.00
9:31	1.70	7.55	0.01
9:32	1.71	7.55	0.00
9:33	1.75	7.53	0.01
9:34	1.73	7.54	0.00
9:35	1.72	7.54	0.00
9:36	1.73	7.54	0.00
9:37	1.73	7.54	0.00
9:38	1.72	7.54	0.00
9:39	1.77	7.50	0.00
9:40	1.77	7.51	0.00
9:41	1.76	7.52	0.00
9:42	1.76	7.51	0.00
9:43	1.76	7.51	0.00
9:44	1.81	7.48	0.00
9:45	1.71	7.56	0.00
9:46	1.75	7.53	0.00
9:47	1.76	7.53	0.01
9:48	1.75	7.53	0.00
9:49	1.77	7.52	0.00
9:50	1.70	7.55	0.00
9:51	1.75	7.52	0.00
9:52	1.73	7.53	0.06
9:53	1.75	7.53	0.00
9:54	1.71	7.53	0.00
9:55	1.73	7.53	0.00
9:56	1.77	7.52	0.00
9:57	1.75	7.53	0.00
9:58	1.75	7.53	0.00
9:59	1.71	7.55	0.00
10:00	1.72	7.54	0.00
10:01	1.74	7.52	0.00
10:02	1.73	7.53	0.00
10:03	1.73	7.54	0.00
10:04	1.76	7.52	0.00
10:05	1.77	7.51	0.00
10:06	1.76	7.51	0.00
10:07	1.76	7.51	0.00
10:08	1.77	7.51	0.00
10:09	1.73	7.53	0.00
10:10	1.73	7.52	0.05
10:11	1.74	7.52	0.00

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
<b>Uncorrected Run Average (C<sub>obs</sub>)</b>	1.73	7.55	0.00
<b>Cal Gas Concentration (C<sub>MA</sub>)</b>	11.02	10.95	15.00
<b>Pretest System Zero Response</b>	0.03	0.01	0.00
<b>Posttest System Zero Response</b>	0.04	0.00	0.00
<b>Average Zero Response (C<sub>0</sub>)</b>	0.04	0.01	0.00
<b>Pretest System Cal Response</b>	11.01	10.88	14.99
<b>Posttest System Cal Response</b>	11.02	10.83	15.11
<b>Average Cal Response (C<sub>M</sub>)</b>	11.02	10.86	15.05
<b>Corrected Run Average (Corr)</b>	1.70	7.62	NA
10:12	1.65	7.57	0.00
10:13	1.76	7.52	0.00
10:14	1.71	7.56	0.00
10:15	1.75	7.52	0.00
10:16	1.73	7.53	0.00
10:17	1.69	7.55	0.00
10:18	1.69	7.55	0.00
10:19	1.73	7.53	0.00
10:20	1.71	7.54	0.00
10:21	1.71	7.54	
10:22	1.71	7.52	
10:23	1.68	7.55	
10:24	1.73	7.52	
10:25	1.75	7.51	
10:26	1.73	7.52	0.00
10:27	1.74	7.52	0.00
10:28	1.74	7.50	0.00
10:29	1.73	7.51	0.00
10:30	1.76	7.51	0.00
10:31	1.73	7.51	0.00
10:32	1.74	7.50	0.00
10:33	1.75	7.51	0.00
10:34	1.76	7.50	0.13
10:35	1.74	7.52	0.00
10:36	1.73	7.52	0.00
10:37	1.77	7.50	0.00
10:38	1.76	7.50	0.00
10:39	1.78	7.50	0.02
10:40	1.79	7.49	0.00
10:41	1.78	7.49	0.01
10:42	1.76	7.49	0.00
10:43	1.82	7.47	0.00
10:44	1.75	7.51	0.00
10:45	1.76	7.50	0.00
10:46	1.73	7.53	0.00
10:47	1.73	7.52	0.00
10:48	1.74	7.52	0.00
10:49	1.73	7.52	0.00
10:50	1.75	7.51	0.00
10:51	1.77	7.50	0.00
10:52	1.73	7.52	0.00
10:53	1.74	7.51	0.01
10:54	1.72	7.52	0.00
10:55	1.72	7.52	0.00
10:56	1.73	7.51	0.00
10:57	1.71	7.52	0.00
10:58	1.69	7.53	0.00
10:59	1.73	7.52	0.00

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.55	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.03	0.01	0.00
Posttest System Zero Response	0.04	0.00	0.00
Average Zero Response (C <sub>o</sub> )	0.04	0.01	0.00
Pretest System Cal Response	11.01	10.88	14.99
Posttest System Cal Response	11.02	10.83	15.11
Average Cal Response (C <sub>M</sub> )	11.02	10.86	15.05
Corrected Run Average (Corr)	1.70	7.62	NA
11:00	1.75	7.51	0.00
11:01	1.74	7.51	0.00
11:02	1.69	7.53	0.00
11:03	1.71	7.52	0.00
11:04	1.72	7.52	0.03
11:05	1.68	7.52	0.01

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/17/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
7:02	191.3	0.904	0.396	18.62
7:03	191.3	0.904	<u>0.130</u>	20.90
7:04	191.2	0.906	0.284	17.54
7:05	191.3	0.907	0.290	16.90
7:06	191.3	0.904	<u>0.130</u>	20.30
7:07	191.3	0.907	0.227	19.01
7:08	191.3	0.906	0.344	16.91
7:09	191.2	0.904	<u>0.130</u>	21.40
7:10	191.3	0.905	0.404	18.26
7:11	191.3	0.906	0.490	18.72
7:12	191.3	0.904	<u>0.130</u>	21.96
7:13	191.3	0.905	0.397	19.23
7:14	191.3	0.901	<u>0.130</u>	23.95
7:15	191.2	0.906	0.194	19.92
7:16	191.3	0.903	<u>0.130</u>	21.94
7:17	191.3	0.907	0.253	16.05
7:18	191.4	0.907	0.264	19.54
7:19	191.3	0.903	0.163	21.48
7:20	191.3	0.907	0.482	17.06
7:21	191.3	0.904	<u>0.130</u>	21.38
7:23	191.4	0.907	0.361	17.35
7:24	191.3	0.905	<u>0.130</u>	21.72
7:25	191.3	0.908	0.312	13.60
7:26	191.4	0.903	<u>0.130</u>	22.20
7:27	191.3	0.905	<u>0.130</u>	23.06
7:28	191.2	0.903	0.213	19.70
7:29	191.3	0.911	0.314	17.85
7:30	191.3	0.907	0.384	17.36
7:31	191.4	0.908	0.412	18.19
7:32	191.4	0.905	0.174	20.79
7:33	191.4	0.906	0.253	20.65
7:34	191.3	0.906	0.186	20.33
7:35	191.3	0.905	<u>0.130</u>	21.17
7:36	191.3	0.907	0.428	18.71
7:37	191.4	0.904	0.130	22.66
7:38	191.3	0.906	0.174	19.78
7:39	191.3	0.907	0.170	19.70
7:40	191.3	0.910	0.286	14.43
7:41	191.4	0.905	0.185	19.43
7:42	191.3	0.907	0.368	18.51
7:43	191.4	0.908	0.407	17.63
7:45	191.4	0.905	0.154	20.40
7:46	191.3	0.907	0.201	20.06
7:47	191.3	0.905	<u>0.130</u>	22.71
7:48	191.3	0.908	0.336	19.05
7:49	191.3	0.906	0.443	16.80
7:50	191.4	0.907	0.155	19.94
7:51	191.3	0.905	<u>0.130</u>	25.52
7:52	191.3	0.907	0.354	18.13
7:53	191.4	0.908	0.462	17.74
8:05	191.4	0.911	0.364	13.90
8:07	191.4	0.910	0.254	16.03
8:08	191.4	0.910	0.157	16.38
8:09	191.4	0.910	0.355	14.92
8:10	191.3	0.909	0.384	18.82
8:11	191.3	0.907	<u>0.130</u>	22.06

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Date:** 5/17/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
8:12	191.3	0.910	0.234	14.18
8:13	191.3	0.908	0.153	20.82
8:14	191.3	0.908	0.403	18.51
8:15	191.3	0.907	0.375	19.51
8:16	191.3	0.909	0.329	18.00
8:17	191.3	0.907	0.457	19.98
8:18	191.4	0.908	0.381	16.98
8:19	191.4	0.908	0.144	20.17
8:20	191.3	0.905	0.130	23.76
8:21	191.4	0.909	0.299	14.19
8:22	191.3	0.907	0.133	19.67
8:23	191.3	0.904	0.130	25.08
8:24	191.3	0.906	0.130	21.34
8:25	191.3	0.907	0.147	20.27
8:26	191.4	0.906	0.186	19.24
8:28	191.4	0.907	0.440	19.93
8:29	191.4	0.906	0.203	19.36
8:30	191.3	0.903	0.130	25.36
8:31	191.3	0.907	0.130	21.71
8:32	191.3	0.908	0.340	17.04
8:33	191.3	0.909	0.468	18.84
8:34	191.4	0.907	0.456	17.53
8:35	191.4	0.908	0.211	19.69
8:36	191.3	0.907	0.425	17.58
8:37	191.4	0.911	0.354	15.99
8:38	191.4	0.906	0.130	22.36
8:39	191.4	0.910	0.130	14.35
8:40	191.4	0.905	0.165	23.25
8:41	191.3	0.905	0.130	22.54
8:42	191.3	0.910	0.150	14.49
8:43	191.3	0.905	0.130	24.41
8:44	191.3	0.909	0.243	15.58
8:45	191.3	0.906	0.130	22.52
8:46	191.3	0.906	0.130	21.33
8:47	191.3	0.908	0.460	17.82
8:48	191.3	0.908	0.334	19.89
8:50	191.3	0.906	0.134	21.32
8:51	191.3	0.911	0.236	13.36
8:52	191.4	0.906	0.224	20.11
8:53	191.3	0.906	0.130	23.38
8:54	191.3	0.904	0.130	23.31
8:55	191.4	0.909	0.334	18.15
8:56	191.3	0.904	0.130	23.91
8:57	191.3	0.908	0.200	20.36
8:58	191.4	0.909	0.313	17.83
8:59	191.4	0.910	0.347	16.44
9:00	191.4	0.906	0.247	19.80
9:01	191.4	0.910	0.209	14.99
9:02	191.4	0.905	0.130	23.26
9:03	191.3	0.906	0.130	20.74
9:19	191.4	0.908	0.234	16.41
9:20	191.4	0.907	0.254	14.37
9:21	191.4	0.907	0.379	16.39
9:22	191.3	0.909	0.319	15.82
9:23	191.3	0.907	0.311	18.15
9:24	191.3	0.906	0.499	17.10



Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/17/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
9:25	191.3	0.907	0.448	16.39
9:26	191.3	0.909	0.326	16.85
9:27	191.3	0.903	0.130	22.19
9:28	191.3	0.905	0.479	18.78
9:29	191.3	0.905	0.449	20.71
9:30	191.3	0.907	0.372	17.65
9:31	191.3	0.905	0.130	20.07
9:32	191.3	0.906	0.328	17.88
9:34	191.3	0.904	0.350	18.03
9:35	191.3	0.903	0.130	23.08
9:36	191.3	0.906	0.425	18.01
9:37	191.3	0.902	0.130	23.02
9:38	191.3	0.903	0.130	21.06
9:39	191.3	0.907	0.356	18.92
9:40	191.3	0.902	0.130	23.00
9:41	191.3	0.906	0.363	17.01
9:42	191.3	0.907	0.290	16.19
9:43	191.3	0.899	0.130	27.83
9:44	191.3	0.906	0.335	16.25
9:45	191.3	0.908	0.479	18.21
9:46	191.3	0.903	0.177	21.82
9:47	191.4	0.908	0.396	17.53
9:48	191.4	0.906	0.634	16.03
9:49	191.3	0.905	0.550	19.15
9:50	191.3	0.905	0.648	20.15
9:51	191.3	0.908	0.298	15.79
9:52	191.4	0.905	0.268	17.08
9:53	191.3	0.905	0.130	21.62
9:54	191.3	0.904	0.130	22.41
9:56	191.4	0.908	0.223	16.15
9:57	191.3	0.902	0.130	26.15
9:58	191.3	0.908	0.340	15.53
9:59	191.4	0.905	0.153	20.90
10:00	191.3	0.906	0.191	19.62
10:01	191.4	0.907	0.333	17.16
10:02	191.4	0.907	0.294	20.07
10:03	191.3	0.904	0.130	21.34
10:04	191.4	0.908	0.365	15.87
10:05	191.3	0.907	0.453	19.03
10:06	191.3	0.904	0.437	20.55
10:07	191.3	0.907	0.213	19.69
10:08	191.4	0.906	0.304	18.90
10:09	191.3	0.909	0.413	19.18
10:10	191.3	0.905	0.130	21.35
10:11	191.3	0.907	0.405	19.08
10:12	191.3	0.907	0.130	21.14
10:13	191.4	0.908	0.440	19.16
10:14	191.4	0.908	0.222	15.60
10:15	191.4	0.905	0.130	23.63
10:16	191.3	0.910	0.293	14.31
10:18	191.4	0.903	0.130	26.63
10:19	191.4	0.912	0.130	12.77
10:30	191.3	0.911	0.256	15.03
10:31	191.4	0.911	0.227	16.88
10:32	191.4	0.911	0.457	17.97
10:33	191.4	0.909	0.263	14.34

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Date:** 5/17/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:34	191.4	0.909	0.510	18.43
10:35	191.4	0.911	0.398	16.72
10:36	191.4	0.905	0.185	19.86
10:37	191.4	0.910	0.242	19.66
10:38	191.3	0.908	0.593	16.51
10:40	191.3	0.907	0.396	18.78
10:41	191.4	0.908	0.533	19.72
10:42	191.4	0.912	0.306	13.92
10:43	191.4	0.906	0.196	20.78
10:44	191.3	0.906	0.130	23.22
10:45	191.4	0.910	0.338	17.00
10:46	191.4	0.907	0.226	20.63
10:47	191.3	0.908	0.130	21.26
10:48	191.3	0.906	0.130	23.61
10:49	191.3	0.911	0.233	14.90
10:50	191.3	0.907	0.255	20.25
10:51	191.3	0.908	0.237	20.21
10:52	191.4	0.910	0.247	14.45
10:53	191.4	0.908	0.130	22.39
10:54	191.4	0.908	0.521	17.86
10:55	191.4	0.908	0.613	17.98
10:56	191.4	0.908	0.633	19.93
10:57	191.4	0.910	0.415	16.75
10:58	191.4	0.909	0.254	19.55
10:59	191.4	0.907	0.130	24.03
11:01	191.4	0.910	0.404	17.59
11:02	191.4	0.909	0.140	21.58
11:03	191.4	0.910	0.357	18.89
11:04	191.4	0.907	0.130	22.03
11:05	191.4	0.911	0.464	16.52
<b>Parameter</b>	<b>Temperature</b>	<b>Pressure</b>	<b>HCN - Outlet</b>	<b>BWS - Outlet</b>
<b>Run Average</b>	191.3	0.907	0.273	19.21

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
<b>Uncorrected Run Average (C<sub>obs</sub>)</b>	1.73	7.52	0.00
<b>Cal Gas Concentration (C<sub>MA</sub>)</b>	11.02	10.95	15.00
<b>Pretest System Zero Response</b>	0.04	0.00	0.00
<b>Posttest System Zero Response</b>	0.05	0.02	0.00
<b>Average Zero Response (C<sub>0</sub>)</b>	0.05	0.01	0.00
<b>Pretest System Cal Response</b>	11.02	10.83	15.11
<b>Posttest System Cal Response</b>	11.02	10.84	14.96
<b>Average Cal Response (C<sub>M</sub>)</b>	11.02	10.84	15.04
<b>Corrected Run Average (Corr)</b>	1.70	7.59	NA
11:38	1.70	7.52	0.00
11:39	1.70	7.52	0.00
11:40	1.68	7.53	0.04
11:41	1.71	7.52	0.00
11:42	1.72	7.51	0.00
11:43	1.72	7.50	0.00
11:44	1.81	7.46	0.00
11:45	1.75	7.49	0.00
11:46	1.75	7.50	0.00
11:47	1.75	7.49	0.00
11:48	1.75	7.50	0.00
11:49	1.76	7.49	0.00
11:50	1.75	7.50	0.00
11:51	1.72	7.51	0.00
11:52	1.71	7.50	0.00
11:53	1.74	7.48	0.00
11:54	1.72	7.50	0.00
11:55	1.69	7.52	0.00
11:56	1.68	7.53	0.00
11:57	1.70	7.50	0.00
11:58	1.71	7.50	0.00
11:59	1.72	7.49	0.00
12:00	1.71	7.49	0.00
12:01	1.69	7.51	0.00
12:02	1.72	7.50	0.00
12:03	1.74	7.49	0.00
12:04	1.73	7.50	0.01
12:05	1.75	7.48	0.00
12:06	1.71	7.51	0.00
12:07	1.73	7.50	0.00
12:08	1.74	7.51	0.00
12:09	1.73	7.50	0.00
12:10	1.74	7.51	0.00
12:11	1.77	7.48	0.01
12:12	1.76	7.49	0.00
12:13	1.73	7.50	0.00
12:14	1.68	7.51	0.00
12:15	1.70	7.51	0.00
12:16	1.70	7.51	0.00
12:17	1.69	7.53	0.00
12:18	1.72	7.52	0.00
12:19	1.70	7.53	0.00
12:20	1.71	7.51	0.00
12:21	1.71	7.52	0.00
12:22	1.73	7.51	0.00
12:23	1.71	7.51	0.00
12:24	1.72	7.52	0.00
12:25	1.73	7.51	0.03

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.52	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.04	0.00	0.00
Posttest System Zero Response	0.05	0.02	0.00
Average Zero Response (C <sub>0</sub> )	0.05	0.01	0.00
Pretest System Cal Response	11.02	10.83	15.11
Posttest System Cal Response	11.02	10.84	14.96
Average Cal Response (C <sub>M</sub> )	11.02	10.84	15.04
Corrected Run Average (Corr)	1.70	7.59	NA

12:26	1.72	7.51	0.00
12:27	1.71	7.51	0.00
12:28	1.74	7.50	0.00
12:29	1.72	7.51	0.00
12:30	1.73	7.50	0.00
12:31	1.70	7.52	0.00
12:32	1.72	7.50	0.00
12:33	1.71	7.52	0.00
12:34	1.71	7.51	0.00
12:35	1.76	7.50	0.00
12:36	1.72	7.52	0.00
12:37	1.72	7.52	0.03
12:38	1.72	7.52	0.00
12:39	1.69	7.54	THC Hourly I
12:40	1.69	7.52	
12:41	1.68	7.53	
12:42	1.67	7.53	
12:43	1.68	7.53	
12:44	1.72	7.51	
12:45	1.73	7.51	
12:46	1.73	7.51	
12:47	1.73	7.50	
12:48	1.71	7.52	
12:49	1.72	7.52	0.00
12:50	1.70	7.54	0.00
12:51	1.71	7.53	0.00
12:52	1.72	7.51	0.00
12:53	1.71	7.52	0.00
12:54	1.75	7.50	0.07
12:55	1.75	7.52	0.00
12:56	1.74	7.51	0.00
12:57	1.76	7.50	0.00
12:58	1.71	7.52	0.00
12:59	1.70	7.52	0.00
13:00	1.68	7.54	0.00
13:01	1.68	7.55	0.00
13:02	1.68	7.55	0.00
13:03	1.70	7.55	0.00
13:04	1.71	7.53	0.00
13:05	1.73	7.52	0.00
13:06	1.72	7.53	0.00
13:07	1.74	7.52	0.00
13:08	1.72	7.53	0.00
13:09	1.73	7.53	0.00
13:10	1.74	7.51	0.00
13:11	1.69	7.53	0.01
13:12	1.73	7.52	0.00
13:13	1.71	7.54	0.00

THC Hourly I

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.52	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.04	0.00	0.00
Posttest System Zero Response	0.05	0.02	0.00
Average Zero Response (C <sub>0</sub> )	0.05	0.01	0.00
Pretest System Cal Response	11.02	10.83	15.11
Posttest System Cal Response	11.02	10.84	14.96
Average Cal Response (C <sub>M</sub> )	11.02	10.84	15.04
Corrected Run Average (Corr)	1.70	7.59	NA
13:14	1.71	7.53	0.00
13:15	1.74	7.52	0.00
13:16	1.69	7.56	0.00
13:17	1.72	7.53	0.00
13:18	1.69	7.56	0.03
13:19	1.72	7.54	0.00
13:20	1.72	7.54	0.01
13:21	1.76	7.52	0.00
13:22	1.75	7.53	0.00
13:23	1.79	7.51	0.01
13:24	1.75	7.52	0.00
13:25	1.79	7.51	0.00
13:26	1.78	7.52	0.00
13:27	1.79	7.52	0.00
13:28	1.81	7.50	0.00
13:29	1.81	7.50	0.00
13:30	1.76	7.53	0.00
13:31	1.78	7.51	0.00
13:32	1.70	7.56	0.00
13:33	1.70	7.56	0.00
13:34	1.73	7.55	0.00
13:35	1.78	7.52	0.00
13:36	1.77	7.53	0.00
13:37	1.78	7.52	0.00
13:38	1.79	7.52	0.00
13:39	1.79	7.51	0.00
13:40	1.74	7.53	0.00
13:41	1.76	7.51	0.00
13:42	1.73	7.53	0.00
13:43	1.76	7.52	0.00
13:44	1.80	7.50	0.00
13:45	1.77	7.52	0.00
13:46	1.75	7.54	0.00
13:47	1.75	7.53	0.00
13:48	1.74	7.54	0.00
13:49	1.76	7.52	THC Hourly I
13:50	1.75	7.52	
13:51	1.74	7.52	
13:52	1.73	7.53	
13:53	1.76	7.51	
13:54	1.72	7.53	0.00
13:55	1.72	7.52	0.00
13:56	1.72	7.52	0.00
13:57	1.80	7.49	0.00
13:58	1.78	7.50	0.00
13:59	1.79	7.51	0.00
14:00	1.74	7.52	0.00
14:01	1.74	7.52	0.00

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.52	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.04	0.00	0.00
Posttest System Zero Response	0.05	0.02	0.00
Average Zero Response (C <sub>0</sub> )	0.05	0.01	0.00
Pretest System Cal Response	11.02	10.83	15.11
Posttest System Cal Response	11.02	10.84	14.96
Average Cal Response (C <sub>M</sub> )	11.02	10.84	15.04
Corrected Run Average (Corr)	1.70	7.59	NA
14:02	1.71	7.53	0.00
14:03	1.74	7.52	0.00
14:04	1.74	7.52	0.00
14:05	1.75	7.52	0.00
14:06	1.77	7.50	0.00
14:07	1.75	7.52	0.00
14:08	1.73	7.52	0.00
14:09	1.73	7.52	0.00
14:10	1.72	7.53	0.00
14:11	1.72	7.53	0.00
14:12	1.76	7.53	0.00
14:13	1.77	7.51	0.00
14:14	1.73	7.53	0.00
14:15	1.72	7.53	0.00
14:16	1.74	7.52	0.00
14:17	1.68	7.57	0.00
14:18	1.74	7.54	0.00
14:19	1.76	7.52	0.00
14:20	1.75	7.52	0.00
14:21	1.73	7.53	0.00
14:22	1.73	7.53	0.00
14:23	1.72	7.53	0.00
14:24	1.69	7.55	0.00
14:25	1.73	7.53	0.00
14:26	1.70	7.54	0.00
14:27	1.70	7.53	0.00
14:28	1.73	7.51	0.00
14:29	1.74	7.52	0.00
14:30	1.77	7.50	0.00
14:31	1.79	7.49	0.00
14:32	1.77	7.50	0.00
14:33	1.75	7.51	0.00
14:34	1.75	7.51	0.00
14:35	1.77	7.49	0.11
14:36	1.76	7.50	0.00
14:37	1.69	7.53	0.00
14:38	1.71	7.52	0.00
14:39	1.75	7.50	0.00
14:40	1.72	7.52	0.00
14:41	1.74	7.51	0.00
14:42	1.73	7.52	0.00
14:43	1.78	7.48	0.00
14:44	1.77	7.50	0.00
14:45	1.74	7.51	0.00
14:46	1.75	7.51	0.00
14:47	1.74	7.51	0.00
14:48	1.77	7.50	0.00
14:49	1.75	7.52	0.00

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.52	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.04	0.00	0.00
Posttest System Zero Response	0.05	0.02	0.00
Average Zero Response (C <sub>0</sub> )	0.05	0.01	0.00
Pretest System Cal Response	11.02	10.83	15.11
Posttest System Cal Response	11.02	10.84	14.96
Average Cal Response (C <sub>M</sub> )	11.02	10.84	15.04
Corrected Run Average (Corr)	1.70	7.59	NA

14:50	1.72	7.54	0.00
14:51	1.75	7.53	0.00
14:52	1.72	7.53	0.00
14:53	1.71	7.52	0.00
14:54	1.72	7.51	0.00
14:55	1.70	7.54	0.00
14:56	1.74	7.51	0.00
14:57	1.73	7.52	0.00
14:58	1.73	7.53	0.00
14:59	1.72	7.54	0.00
15:00	1.75	7.52	0.00
15:01	1.73	7.52	0.00
15:02	1.70	7.53	0.00
15:03	1.73	7.53	0.00
15:04	1.75	7.51	0.00
15:05	1.72	7.52	0.00
15:06	1.70	7.52	0.00
15:07	1.72	7.51	0.00
15:08	1.71	7.52	0.00
15:09	1.73	7.51	
15:10	1.73	7.51	
15:11	1.74	7.51	
15:12	1.75	7.50	
15:13	1.73	7.51	
15:14	1.74	7.51	
15:15	1.74	7.50	
15:16	1.74	7.50	
15:17	1.73	7.51	
15:18	1.75	7.50	
15:19	1.75	7.50	
15:20	1.74	7.51	0.01
15:21	1.76	7.51	0.00
15:22	1.79	7.48	0.00
15:23	1.77	7.50	0.00
15:24	1.77	7.49	0.00
15:25	1.77	7.49	0.00
15:26	1.75	7.50	0.00
15:27	1.76	7.49	0.00
15:28	1.76	7.50	0.00
15:29	1.73	7.52	0.00
15:30	1.76	7.50	0.00
15:31	1.76	7.50	0.00
15:32	1.75	7.51	0.00
15:33	1.76	7.52	0.00
15:34	1.75	7.53	0.00
15:35	1.73	7.54	0.00
15:36	1.71	7.55	0.00
15:37	1.74	7.52	0.00

THC Hourly I

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.52	0.00
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.04	0.00	0.00
Posttest System Zero Response	0.05	0.02	0.00
Average Zero Response (C <sub>o</sub> )	0.05	0.01	0.00
Pretest System Cal Response	11.02	10.83	15.11
Posttest System Cal Response	11.02	10.84	14.96
Average Cal Response (C <sub>M</sub> )	11.02	10.84	15.04
Corrected Run Average (Corr)	1.70	7.59	NA
15:38	1.71	7.54	0.00
15:39	1.73	7.53	0.00
15:40	1.75	7.52	0.00
15:41	1.71	7.53	0.00
15:42	1.74	7.51	0.00
15:43	1.80	7.49	0.00



Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/17/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
11:38	191.3	0.909	0.302	17.90
11:40	191.3	0.911	<u>0.130</u>	15.41
11:41	191.3	0.908	<u>0.130</u>	19.17
11:42	191.3	0.907	0.328	20.10
11:43	191.3	0.911	0.277	16.30
11:44	191.3	0.906	<u>0.130</u>	22.20
11:45	191.3	0.909	0.312	17.87
11:46	191.3	0.907	0.267	19.70
11:47	191.4	0.909	0.206	18.26
11:48	191.4	0.907	0.378	19.03
11:49	191.3	0.909	0.382	20.33
11:50	191.3	0.906	<u>0.130</u>	22.12
11:51	191.3	0.911	0.289	17.32
11:52	191.3	0.905	<u>0.130</u>	21.46
11:53	191.4	0.909	0.136	19.61
11:54	191.3	0.906	<u>0.130</u>	20.62
11:55	191.3	0.907	<u>0.130</u>	22.21
11:56	191.4	0.909	0.142	19.70
11:57	191.4	0.906	<u>0.130</u>	20.91
11:58	191.4	0.910	0.294	16.26
11:59	191.4	0.905	0.156	21.94
12:00	191.4	0.908	0.313	18.00
12:02	191.4	0.907	0.330	20.19
12:03	191.4	0.904	<u>0.130</u>	23.10
12:04	191.3	0.907	0.167	19.65
12:05	191.4	0.908	<u>0.130</u>	21.92
12:06	191.3	0.906	0.499	17.73
12:07	191.4	0.908	0.308	18.73
12:08	191.4	0.905	<u>0.130</u>	21.51
12:09	191.3	0.907	<u>0.130</u>	20.59
12:10	191.4	0.905	<u>0.130</u>	20.29
12:11	191.4	0.907	0.233	19.23
12:12	191.3	0.908	0.427	17.61
12:13	191.4	0.905	0.286	19.63
12:14	191.4	0.907	0.291	18.87
12:15	191.4	0.904	<u>0.130</u>	21.16
12:16	191.4	0.909	0.280	19.12
12:17	191.4	0.906	0.430	18.14
12:18	191.4	0.907	0.144	21.29
12:19	191.4	0.908	<u>0.130</u>	15.77
12:20	191.4	0.904	<u>0.130</u>	25.54
12:21	191.4	0.909	0.471	17.67
12:22	191.4	0.908	0.540	19.64
12:24	191.4	0.906	0.451	17.64
12:25	191.4	0.906	<u>0.130</u>	24.22
12:26	191.4	0.910	0.267	17.72
12:27	191.4	0.907	0.347	17.16
12:28	191.4	0.908	0.573	18.71
12:29	191.4	0.907	0.593	17.60
12:30	191.4	0.910	0.342	17.72
12:31	191.4	0.907	0.411	18.52
12:32	191.4	0.908	0.382	18.21
12:33	191.4	0.903	<u>0.130</u>	24.18
12:34	191.4	0.910	0.403	17.40
12:35	191.4	0.906	<u>0.130</u>	20.74
12:36	191.4	0.909	0.255	17.24

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/17/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
12:37	191.4	0.907	0.181	19.59
12:38	191.4	0.909	0.304	16.78
12:39	191.4	0.904	0.130	23.03
12:50	191.4	0.906	0.422	18.70
12:51	191.4	0.908	0.303	17.69
12:52	191.4	0.909	0.296	17.39
12:53	191.4	0.908	0.327	17.54
12:54	191.4	0.907	0.141	20.41
12:55	191.4	0.907	0.313	17.55
12:56	191.4	0.905	0.177	20.43
12:57	191.3	0.907	0.130	21.47
12:58	191.3	0.907	0.283	13.72
12:59	191.3	0.904	0.130	22.94
13:00	191.3	0.909	0.427	17.55
13:01	191.3	0.903	0.130	21.31
13:02	191.3	0.909	0.197	14.71
13:03	191.3	0.904	0.130	24.81
13:04	191.4	0.906	0.152	19.60
13:05	191.4	0.908	0.255	15.71
13:07	191.4	0.904	0.130	20.92
13:08	191.4	0.907	0.237	19.80
13:09	191.4	0.907	0.444	17.37
13:10	191.3	0.903	0.130	23.55
13:11	191.4	0.910	0.130	15.95
13:12	191.3	0.903	0.130	20.96
13:13	191.3	0.907	0.450	19.30
13:14	191.3	0.905	0.171	20.56
13:15	191.4	0.907	0.384	17.40
13:16	191.4	0.904	0.130	22.59
13:17	191.4	0.906	0.130	21.13
13:18	191.4	0.904	0.232	19.71
13:19	191.3	0.908	0.492	17.40
13:20	191.3	0.907	0.150	19.16
13:21	191.4	0.906	0.130	20.83
13:22	191.4	0.908	0.324	16.95
13:23	191.4	0.904	0.130	23.28
13:24	191.4	0.908	0.338	18.14
13:25	191.4	0.908	0.467	18.25
13:26	191.4	0.905	0.130	21.09
13:27	191.4	0.906	0.153	21.58
13:29	191.4	0.907	0.197	19.97
13:30	191.3	0.904	0.130	25.68
13:31	191.4	0.911	0.479	18.15
13:32	191.4	0.908	0.397	16.73
13:33	191.4	0.911	0.474	16.72
13:34	191.4	0.908	0.438	17.70
13:35	191.4	0.909	0.537	17.85
13:36	191.4	0.908	0.394	18.13
13:37	191.4	0.908	0.130	21.56
13:38	191.4	0.909	0.320	18.56
13:39	191.4	0.911	0.130	14.24
13:40	191.4	0.908	0.474	18.33
13:41	191.4	0.904	0.130	21.41
13:42	191.4	0.909	0.130	21.54
13:43	191.3	0.905	0.198	20.85
13:44	191.3	0.907	0.130	20.48

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/17/24

Time Unit MDL Status	Temperature °C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
13:45	191.4	0.909	0.484	17.26
13:46	191.4	0.909	0.488	15.75
13:47	191.4	0.910	0.413	17.69
13:48	191.3	0.904	0.130	25.21
13:49	191.3	0.911	0.425	16.36
13:59	191.4	0.911	0.260	16.58
14:00	191.4	0.907	0.130	20.28
14:01	191.4	0.910	0.240	17.90
14:02	191.4	0.908	0.455	16.53
14:03	191.4	0.911	0.268	17.21
14:04	191.4	0.906	0.228	19.54
14:05	191.4	0.908	0.259	18.29
14:06	191.3	0.905	0.130	21.42
14:07	191.3	0.910	0.399	17.89
14:08	191.3	0.906	0.384	19.31
14:09	191.4	0.909	0.230	19.00
14:10	191.4	0.907	0.563	18.21
14:11	191.4	0.907	0.130	22.17
14:13	191.4	0.910	0.180	16.29
14:14	191.4	0.906	0.323	18.77
14:15	191.4	0.907	0.573	18.24
14:16	191.4	0.908	0.376	19.70
14:17	191.4	0.905	0.130	22.72
14:18	191.4	0.909	0.294	18.03
14:19	191.4	0.907	0.357	18.82
14:20	191.4	0.905	0.143	22.88
14:21	191.3	0.907	0.147	19.47
14:22	191.4	0.910	0.130	15.97
14:23	191.4	0.905	0.130	22.38
14:24	191.4	0.905	0.130	23.40
14:25	191.4	0.908	0.130	20.77
14:26	191.3	0.907	0.388	18.72
14:27	191.4	0.908	0.600	20.12
14:28	191.4	0.909	0.352	16.51
14:29	191.4	0.907	0.130	22.47
14:30	191.4	0.911	0.291	17.12
14:31	191.4	0.908	0.199	19.41
14:32	191.4	0.910	0.287	18.51
14:33	191.4	0.907	0.130	22.68
14:35	191.3	0.909	0.134	20.73
14:36	191.4	0.910	0.406	16.95
14:37	191.3	0.907	0.130	23.62
14:38	191.3	0.910	0.178	20.05
14:39	191.3	0.910	0.572	16.33
14:40	191.3	0.913	0.316	13.31
14:41	191.3	0.906	0.130	21.57
14:42	191.3	0.909	0.417	14.23
14:43	191.3	0.910	0.200	19.59
14:44	191.3	0.907	0.130	22.45
14:45	191.3	0.912	0.213	14.98
14:46	191.3	0.906	0.130	23.03
14:47	191.4	0.913	0.178	14.74
14:48	191.4	0.906	0.130	21.18
14:49	191.3	0.912	0.218	14.80
14:50	191.4	0.905	0.130	22.38
14:51	191.3	0.908	0.131	20.97

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/17/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:52	191.4	0.906	0.130	20.90
14:53	191.3	0.908	0.130	20.69
14:54	191.4	0.907	0.130	21.00
14:56	191.3	0.910	0.333	18.04
14:57	191.3	0.910	0.400	17.96
14:58	191.4	0.907	0.353	18.19
14:59	191.4	0.907	0.409	20.48
15:00	191.3	0.906	0.257	19.40
15:01	191.3	0.909	0.191	17.75
15:02	191.4	0.907	0.311	18.74
15:03	191.4	0.908	0.381	18.05
15:04	191.4	0.906	0.626	20.62
15:05	191.3	0.908	0.330	14.86
15:06	191.3	0.904	0.559	18.37
15:07	191.3	0.906	0.130	22.49
15:08	191.4	0.908	0.216	19.99
15:09	191.4	0.907	0.284	16.87
15:10	191.4	0.907	0.130	20.82
15:24	191.4	0.911	0.158	15.26
15:25	191.4	0.910	0.171	14.49
15:26	191.4	0.911	0.231	14.97
15:27	191.4	0.908	0.167	20.29
15:28	191.4	0.911	0.202	14.49
15:29	191.4	0.907	0.130	22.77
15:30	191.4	0.910	0.146	16.29
15:31	191.4	0.908	0.130	20.75
15:32	191.4	0.911	0.198	16.07
15:33	191.4	0.909	0.130	22.43
15:34	191.4	0.912	0.255	14.86
15:35	191.4	0.909	0.265	16.16
15:36	191.4	0.908	0.612	18.09
15:37	191.4	0.906	0.130	23.50
15:38	191.4	0.910	0.513	16.71
15:40	191.4	0.907	0.413	17.82
15:41	191.4	0.907	0.924	16.80
15:42	191.3	0.912	0.384	16.21
15:43	191.4	0.904	0.162	20.14

Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.4	0.908	0.264	19.17

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/20/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.54	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.05	0.05	0.00
Posttest System Zero Response	0.06	0.03	0.00
Average Zero Response (C <sub>0</sub> )	0.06	0.04	0.00
Pretest System Cal Response	10.92	10.87	14.98
Posttest System Cal Response	10.94	10.88	14.99
Average Cal Response (C <sub>M</sub> )	10.93	10.88	14.99
Corrected Run Average (Corr)	1.69	7.58	NA
10:55	1.79	7.51	0.00
10:56	1.81	7.50	0.03
10:57	1.79	7.53	0.00
10:58	1.75	7.55	0.00
10:59	1.73	7.56	0.03
11:00	1.72	7.57	0.00
11:01	1.73	7.55	0.02
11:02	1.72	7.55	0.02
11:03	1.71	7.56	0.67
11:04	1.73	7.55	0.03
11:05	1.73	7.55	0.01
11:06	1.73	7.55	0.01
11:07	1.77	7.52	0.00
11:08	1.72	7.54	0.00
11:09	1.71	7.55	0.02
11:10	1.70	7.56	0.00
11:11	1.71	7.56	0.02
11:12	1.72	7.56	0.00
11:13	1.71	7.56	0.00
11:14	1.69	7.58	0.00
11:15	1.70	7.58	0.00
11:16	1.72	7.56	0.03
11:17	1.66	7.59	0.00
11:18	1.68	7.58	0.01
11:19	1.69	7.58	0.00
11:20	1.67	7.59	0.04
11:21	1.72	7.56	0.00
11:22	1.74	7.55	0.00
11:23	1.73	7.55	0.04
11:24	1.75	7.55	0.00
11:25	1.74	7.57	0.01
11:26	1.71	7.58	0.02
11:27	1.69	7.59	0.00
11:28	1.68	7.59	0.01
11:29	1.76	7.55	0.00
11:30	1.74	7.55	0.00
11:31	1.72	7.56	0.01
11:32	1.72	7.55	0.00
11:33	1.71	7.56	0.01
11:34	1.73	7.54	0.02
11:35	1.72	7.56	0.00
11:36	1.77	7.53	0.00
11:37	1.75	7.54	0.00
11:38	1.76	7.54	0.00
11:39	1.68	7.58	0.00
11:40	1.74	7.55	0.00
11:41	1.79	7.53	0.02
11:42	1.74	7.55	0.03

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/20/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.54	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.05	0.05	0.00
Posttest System Zero Response	0.06	0.03	0.00
Average Zero Response (C <sub>0</sub> )	0.06	0.04	0.00
Pretest System Cal Response	10.92	10.87	14.98
Posttest System Cal Response	10.94	10.88	14.99
Average Cal Response (C <sub>M</sub> )	10.93	10.88	14.99
Corrected Run Average (Corr)	1.69	7.58	NA
11:43	1.69	7.58	0.01
11:44	1.66	7.58	0.00
11:45	1.71	7.56	0.00
11:46	1.70	7.56	0.03
11:47	1.73	7.55	0.00
11:48	1.71	7.56	0.01
11:49	1.72	7.56	0.00
11:50	1.71	7.56	0.00
11:51	1.70	7.57	0.02
11:52	1.72	7.54	0.00
11:53	1.73	7.53	0.00
11:54	1.78	7.51	0.00
11:55	1.76	7.53	0.00
11:56	1.70	7.56	
11:57	1.71	7.56	
11:58	1.71	7.57	
11:59	1.71	7.56	
12:00	1.72	7.56	
12:01	1.73	7.55	
12:02	1.69	7.55	
12:03	1.72	7.53	
12:04	1.74	7.52	0.00
12:05	1.72	7.52	0.00
12:06	1.71	7.53	0.02
12:07	1.71	7.54	0.01
12:08	1.71	7.53	0.01
12:09	1.75	7.51	0.00
12:10	1.75	7.50	0.00
12:11	1.74	7.51	0.02
12:12	1.74	7.53	0.00
12:13	1.73	7.54	0.23
12:14	1.71	7.55	0.00
12:15	1.69	7.56	0.00
12:16	1.67	7.56	0.00
12:17	1.72	7.54	0.00
12:18	1.71	7.55	0.02
12:19	1.75	7.53	0.00
12:20	1.69	7.55	0.00
12:21	1.72	7.53	0.04
12:22	1.74	7.52	0.00
12:23	1.76	7.52	0.01
12:24	1.73	7.53	0.00
12:25	1.69	7.55	0.00
12:26	1.75	7.53	0.02
12:27	1.69	7.57	0.00
12:28	1.70	7.56	0.01
12:29	1.71	7.54	0.00
12:30	1.73	7.53	0.00

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/20/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.54	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.05	0.05	0.00
Posttest System Zero Response	0.06	0.03	0.00
Average Zero Response (C <sub>0</sub> )	0.06	0.04	0.00
Pretest System Cal Response	10.92	10.87	14.98
Posttest System Cal Response	10.94	10.88	14.99
Average Cal Response (C <sub>M</sub> )	10.93	10.88	14.99
Corrected Run Average (Corr)	1.69	7.58	NA
12:31	1.71	7.53	0.03
12:32	1.70	7.54	0.00
12:33	1.72	7.53	0.01
12:34	1.73	7.52	0.00
12:35	1.72	7.54	0.01
12:36	1.71	7.54	0.01
12:37	1.72	7.52	0.00
12:38	1.70	7.53	0.01
12:39	1.75	7.51	0.00
12:40	1.71	7.53	0.01
12:41	1.68	7.57	0.00
12:42	1.75	7.53	0.00
12:43	1.73	7.54	0.01
12:44	1.76	7.52	0.00
12:45	1.75	7.53	0.01
12:46	1.74	7.52	0.00
12:47	1.73	7.52	0.00
12:48	1.73	7.52	0.01
12:49	1.76	7.52	0.00
12:50	1.77	7.51	0.00
12:51	1.76	7.52	0.00
12:52	1.73	7.53	0.00
12:53	1.79	7.49	0.00
12:54	1.74	7.52	0.00
12:55	1.70	7.55	0.06
12:56	1.73	7.53	0.00
12:57	1.73	7.53	0.00
12:58	1.74	7.53	0.00
12:59	1.71	7.53	0.00
13:00	1.71	7.53	0.00
13:01	1.71	7.54	0.00
13:02	1.75	7.51	0.00
13:03	1.73	7.52	0.00
13:04	1.77	7.51	
13:05	1.70	7.54	
13:06	1.72	7.54	
13:07	1.72	7.54	
13:08	1.71	7.54	
13:09	1.73	7.52	
13:10	1.72	7.54	0.01
13:11	1.73	7.54	0.00
13:12	1.72	7.54	0.00
13:13	1.72	7.54	0.00
13:14	1.72	7.54	0.00
13:15	1.74	7.53	0.02
13:16	1.73	7.54	0.00
13:17	1.73	7.55	0.01
13:18	1.73	7.54	0.01

Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date: 5/20/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.54	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.05	0.05	0.00
Posttest System Zero Response	0.06	0.03	0.00
Average Zero Response (C <sub>0</sub> )	0.06	0.04	0.00
Pretest System Cal Response	10.92	10.87	14.98
Posttest System Cal Response	10.94	10.88	14.99
Average Cal Response (C <sub>M</sub> )	10.93	10.88	14.99
Corrected Run Average (Corr)	1.69	7.58	NA
13:19	1.74	7.54	0.00
13:20	1.76	7.54	0.01
13:21	1.76	7.53	0.00
13:22	1.74	7.55	0.01
13:23	1.73	7.55	0.00
13:24	1.74	7.55	0.00
13:25	1.74	7.54	0.01
13:26	1.77	7.52	0.00
13:27	1.77	7.53	0.02
13:28	1.77	7.51	0.00
13:29	1.79	7.51	0.00
13:30	1.81	7.51	0.01
13:31	1.74	7.54	0.00
13:32	1.75	7.54	0.01
13:33	1.74	7.54	0.00
13:34	1.73	7.54	0.01
13:35	1.72	7.55	0.00
13:36	1.73	7.53	0.00
13:37	1.73	7.55	0.00
13:38	1.78	7.52	0.00
13:39	1.72	7.54	0.01
13:40	1.74	7.53	0.00
13:41	1.75	7.52	0.00
13:42	1.72	7.54	0.02
13:43	1.74	7.53	0.00
13:44	1.72	7.54	0.01
13:45	1.70	7.56	0.01
13:46	1.70	7.55	0.00
13:47	1.72	7.55	0.04
13:48	1.75	7.53	0.00
13:49	1.74	7.54	0.00
13:50	1.73	7.54	0.02
13:51	1.71	7.56	0.00
13:52	1.72	7.55	0.00
13:53	1.72	7.55	0.00
13:54	1.76	7.53	0.00
13:55	1.75	7.54	0.00
13:56	1.73	7.55	0.00
13:57	1.76	7.54	0.00
13:58	1.77	7.53	0.00
13:59	1.76	7.53	0.01
14:00	1.76	7.54	0.00
14:01	1.73	7.56	0.00
14:02	1.72	7.55	0.02
14:03	1.76	7.53	0.00
14:04	1.74	7.54	0.01
14:05	1.75	7.53	0.00
14:06	1.73	7.55	0.00



**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/20/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.54	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.05	0.05	0.00
Posttest System Zero Response	0.06	0.03	0.00
Average Zero Response (C <sub>0</sub> )	0.06	0.04	0.00
Pretest System Cal Response	10.92	10.87	14.98
Posttest System Cal Response	10.94	10.88	14.99
Average Cal Response (C <sub>M</sub> )	10.93	10.88	14.99
Corrected Run Average (Corr)	1.69	7.58	NA
14:07	1.72	7.56	0.02
14:08	1.74	7.55	0.00
14:09	1.74	7.55	
14:10	1.74	7.55	
14:11	1.73	7.56	
14:12	1.72	7.56	
14:13	1.73	7.55	
14:14	1.74	7.54	
14:15	1.71	7.55	0.00
14:16	1.71	7.55	0.00
14:17	1.73	7.53	0.00
14:18	1.74	7.54	0.00
14:19	1.72	7.55	0.02
14:20	1.71	7.56	0.00
14:21	1.68	7.58	0.00
14:22	1.72	7.55	0.00
14:23	1.74	7.55	0.00
14:24	1.74	7.55	0.03
14:25	1.75	7.55	0.00
14:26	1.73	7.55	0.00
14:27	1.69	7.57	0.03
14:28	1.69	7.58	0.00
14:29	1.71	7.56	0.01
14:30	1.71	7.55	0.00
14:31	1.70	7.56	0.00
14:32	1.72	7.55	0.01
14:33	1.72	7.55	0.00
14:34	1.72	7.55	0.00
14:35	1.72	7.55	0.00
14:36	1.71	7.56	0.00
14:37	1.70	7.56	0.01
14:38	1.72	7.55	0.00
14:39	1.72	7.54	0.03
14:40	1.72	7.55	0.00
14:41	1.70	7.56	0.00
14:42	1.71	7.55	0.01
14:43	1.67	7.58	0.00
14:44	1.74	7.53	0.02
14:45	1.73	7.54	0.00
14:46	1.76	7.51	0.00
14:47	1.73	7.53	0.05
14:48	1.72	7.54	0.00
14:49	1.69	7.55	0.02
14:50	1.71	7.55	0.00
14:51	1.73	7.53	0.00
14:52	1.74	7.52	0.00
14:53	1.71	7.54	0.00
14:54	1.71	7.54	0.01

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/20/24

Time Unit Status	O <sub>2</sub> - Outlet % dry Valid	CO <sub>2</sub> - Outlet % dry Valid	THC - Outlet ppmvw Valid
Uncorrected Run Average (C <sub>obs</sub> )	1.73	7.54	0.01
Cal Gas Concentration (C <sub>MA</sub> )	11.02	10.95	15.00
Pretest System Zero Response	0.05	0.05	0.00
Posttest System Zero Response	0.06	0.03	0.00
Average Zero Response (C <sub>o</sub> )	0.06	0.04	0.00
Pretest System Cal Response	10.92	10.87	14.98
Posttest System Cal Response	10.94	10.88	14.99
Average Cal Response (C <sub>M</sub> )	10.93	10.88	14.99
Corrected Run Average (Corr)	1.69	7.58	NA
14:55	1.72	7.53	0.00
14:56	1.72	7.52	0.02
14:57	1.69	7.54	0.00
14:58	1.71	7.52	0.00
14:59	1.69	7.53	0.04
15:00	1.71	7.53	0.00

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/18/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
10:55	191.4	0.919	0.265	20.20
10:56	191.3	0.922	0.399	17.62
10:57	191.3	0.923	0.557	16.57
10:58	191.3	0.922	0.624	17.71
10:59	191.3	0.922	0.700	17.04
11:00	191.4	0.923	0.613	17.13
11:01	191.4	0.917	0.206	22.63
11:02	191.4	0.921	0.698	18.83
11:03	191.4	0.922	0.815	19.54
11:05	191.3	0.924	0.341	19.35
11:06	191.3	0.923	0.541	17.25
11:07	191.4	0.922	0.508	16.88
11:08	191.4	0.919	0.268	21.85
11:09	191.3	0.924	0.538	14.20
11:10	191.3	0.922	0.461	19.29
11:11	191.3	0.922	0.526	15.05
11:12	191.3	0.918	0.374	19.52
11:13	191.3	0.920	0.331	21.70
11:14	191.3	0.920	0.946	18.09
11:15	191.4	0.923	0.702	14.84
11:16	191.3	0.919	0.352	20.63
11:17	191.4	0.921	0.370	20.05
11:18	191.4	0.922	0.427	20.22
11:19	191.3	0.917	0.569	20.72
11:20	191.3	0.924	0.722	16.80
11:21	191.4	0.920	0.409	20.51
11:22	191.4	0.922	0.754	18.31
11:23	191.4	0.921	0.929	17.90
11:24	191.4	0.921	0.999	18.37
11:25	191.4	0.924	0.610	14.62
11:27	191.4	0.924	0.574	13.09
11:28	191.3	0.916	0.319	22.94
11:29	191.3	0.920	0.140	24.24
11:30	191.4	0.926	0.549	13.56
11:31	191.4	0.920	0.500	19.30
11:32	191.4	0.921	0.476	18.39
11:33	191.4	0.920	0.361	22.41
11:34	191.4	0.922	0.703	16.67
11:35	191.4	0.923	0.861	14.36
11:36	191.4	0.922	0.456	16.45
11:37	191.4	0.917	0.230	24.83
11:38	191.3	0.920	0.344	21.95
11:39	191.4	0.920	0.476	19.42
11:40	191.4	0.924	0.498	13.72
11:41	191.4	0.920	0.740	18.38
11:42	191.4	0.918	0.130	25.36
11:43	191.4	0.920	0.310	20.53
11:44	191.4	0.921	0.853	17.54
11:45	191.3	0.919	0.277	22.83
11:46	191.3	0.924	0.445	14.89
11:48	191.4	0.919	0.481	19.92
11:49	191.4	0.920	0.199	23.40
11:50	191.4	0.921	0.767	18.47
11:51	191.4	0.921	0.880	17.77
11:52	191.4	0.920	0.881	19.96
11:53	191.4	0.921	0.435	19.99

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Date:** 5/18/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
11:54	191.4	0.921	0.381	19.75
11:55	191.4	0.920	0.473	20.58
11:56	191.4	0.920	0.430	20.37
11:57	191.4	0.922	0.601	18.93
12:06	191.5	0.921	0.130	11.92
12:07	191.4	0.924	0.646	17.33
12:08	191.4	0.924	0.558	14.07
12:10	191.4	0.923	0.556	14.18
12:11	191.4	0.921	0.872	18.74
12:12	191.4	0.921	0.851	19.75
12:13	191.4	0.923	0.590	15.21
12:14	191.4	0.926	0.356	12.40
12:15	191.4	0.917	0.338	22.08
12:16	191.4	0.922	0.712	16.72
12:17	191.4	0.920	0.562	19.37
12:18	191.4	0.921	0.543	19.43
12:19	191.4	0.925	0.635	13.27
12:20	191.4	0.918	0.560	20.55
12:21	191.4	0.920	0.356	21.60
12:22	191.4	0.921	0.497	19.39
12:23	191.4	0.920	0.506	20.09
12:24	191.4	0.920	0.472	21.68
12:25	191.4	0.921	0.607	18.86
12:26	191.4	0.919	0.418	21.66
12:27	191.4	0.920	0.878	18.18
12:28	191.4	0.919	0.304	22.57
12:29	191.4	0.920	1.024	17.54
12:30	191.4	0.921	0.360	20.68
12:32	191.4	0.920	0.445	20.41
12:33	191.4	0.920	0.532	19.09
12:34	191.4	0.919	0.407	20.57
12:35	191.4	0.916	0.665	23.62
12:36	191.3	0.923	0.805	17.19
12:37	191.3	0.918	0.577	20.52
12:38	191.4	0.921	0.420	22.29
12:39	191.4	0.921	0.471	21.87
12:40	191.4	0.924	0.789	16.14
12:41	191.4	0.921	0.749	18.69
12:42	191.4	0.922	0.762	16.88
12:43	191.5	0.921	0.768	18.36
12:44	191.5	0.920	1.011	17.67
12:45	191.4	0.922	0.820	20.35
12:46	191.4	0.921	0.401	21.96
12:47	191.4	0.922	0.677	17.05
12:48	191.4	0.923	0.760	18.36
12:49	191.4	0.921	0.754	18.54
12:50	191.4	0.921	0.417	20.59
12:51	191.4	0.922	0.856	17.06
12:52	191.4	0.921	1.096	18.47
12:54	191.4	0.922	0.768	18.35
12:55	191.4	0.919	0.661	19.93
12:56	191.4	0.923	0.816	17.28
12:57	191.4	0.918	0.243	23.78
12:58	191.4	0.920	0.570	21.03
12:59	191.4	0.923	0.987	17.94
13:00	191.4	0.921	0.813	19.98

Location: BASF Corporation - Freeport, TX

Source: Incinerator IN-701 EPN 4-1-1

Project No.: AST-2024-2250

Date: 5/18/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
13:01	191.4	0.918	0.239	23.41
13:02	191.4	0.923	0.737	18.25
13:03	191.4	0.922	0.647	16.57
13:04	191.4	0.919	0.472	21.91
13:14	191.4	0.920	0.956	17.89
13:16	191.4	0.922	0.538	15.00
13:17	191.4	0.922	0.684	17.75
13:18	191.4	0.924	0.600	13.48
13:19	191.4	0.922	0.570	17.04
13:20	191.4	0.918	0.484	20.92
13:21	191.4	0.919	1.089	18.91
13:22	191.4	0.921	0.813	19.59
13:23	191.4	0.923	0.720	15.16
13:24	191.4	0.923	0.515	14.14
13:25	191.4	0.916	0.395	23.21
13:26	191.4	0.920	0.430	20.70
13:27	191.4	0.921	0.527	19.46
13:28	191.4	0.923	0.467	18.51
13:29	191.4	0.921	0.754	17.36
13:30	191.4	0.920	0.400	20.64
13:31	191.4	0.920	0.490	20.57
13:32	191.4	0.922	0.707	17.25
13:33	191.4	0.921	0.498	19.16
13:34	191.4	0.917	0.250	23.92
13:35	191.4	0.923	0.651	16.17
13:37	191.4	0.920	0.130	23.67
13:38	191.4	0.922	0.619	15.31
13:39	191.4	0.922	0.408	20.13
13:40	191.4	0.919	0.465	21.01
13:41	191.4	0.921	0.730	18.64
13:42	191.4	0.922	0.873	17.95
13:43	191.4	0.921	0.843	18.87
13:44	191.4	0.920	0.775	16.62
13:45	191.4	0.919	0.435	21.55
13:46	191.4	0.921	0.545	15.43
13:47	191.5	0.921	0.389	21.49
13:48	191.4	0.921	0.732	17.78
13:49	191.4	0.919	0.898	17.38
13:50	191.4	0.918	0.168	24.66
13:51	191.4	0.920	0.444	19.86
13:52	191.4	0.920	0.437	20.62
13:53	191.4	0.920	0.836	17.53
13:54	191.4	0.918	0.359	24.35
13:55	191.4	0.922	0.645	14.57
13:56	191.5	0.924	0.656	13.04
13:57	191.4	0.919	0.949	16.78
13:59	191.4	0.918	0.586	20.07
14:00	191.4	0.922	0.617	15.12
14:01	191.4	0.917	0.130	25.98
14:02	191.4	0.919	0.449	21.87
14:03	191.4	0.920	0.798	18.39
14:04	191.4	0.922	0.849	19.55
14:05	191.4	0.919	0.582	20.37
14:06	191.4	0.923	0.732	16.83
14:07	191.4	0.918	0.558	21.17
14:08	191.4	0.919	0.499	20.35

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

**Date:** 5/18/24

Time Unit MDL Status	Temperature ° C -- Valid	Pressure atm -- Valid	HCN - Outlet ppmvw 0.13 Valid	BWS - Outlet % (wet) -- Valid
14:09	191.4	0.920	0.585	19.61
14:10	191.4	0.922	0.636	16.60
14:19	191.5	0.919	0.536	19.46
14:21	191.5	0.921	0.555	17.98
14:22	191.5	0.921	0.737	16.23
14:23	191.5	0.922	0.546	19.43
14:24	191.4	0.922	0.764	16.47
14:25	191.4	0.921	0.763	16.28
14:26	191.4	0.920	0.450	20.49
14:27	191.4	0.917	0.349	22.27
14:28	191.4	0.920	0.790	18.83
14:29	191.4	0.922	0.817	17.38
14:30	191.4	0.914	0.130	25.78
14:31	191.4	0.922	0.724	18.14
14:32	191.4	0.921	0.407	21.59
14:33	191.4	0.921	0.677	17.36
14:34	191.4	0.923	0.696	15.87
14:35	191.4	0.920	0.650	16.00
14:36	191.4	0.917	0.130	26.17
14:37	191.4	0.914	0.130	29.00
14:38	191.4	0.923	0.707	17.19
14:39	191.4	0.919	0.529	20.68
14:40	191.4	0.922	0.811	18.41
14:41	191.5	0.922	0.731	16.37
14:43	191.4	0.918	0.366	21.96
14:44	191.4	0.919	0.443	20.92
14:45	191.4	0.924	0.700	9.93
14:46	191.4	0.916	0.405	23.42
14:47	191.4	0.920	0.464	20.37
14:48	191.4	0.921	0.661	18.75
14:49	191.4	0.921	0.796	16.05
14:50	191.4	0.921	0.522	19.45
14:51	191.4	0.918	0.563	20.31
14:52	191.4	0.921	1.104	16.78
14:53	191.4	0.922	0.606	13.37
14:54	191.4	0.917	0.490	21.28
14:55	191.4	0.920	0.960	17.03
14:56	191.4	0.918	0.539	21.47
14:57	191.4	0.921	0.551	20.52
14:58	191.4	0.922	0.568	14.81
14:59	191.4	0.920	0.557	16.08
15:00	191.4	0.917	0.517	21.84
15:01	191.4	0.918	0.481	20.49

Parameter	Temperature	Pressure	HCN - Outlet	BWS - Outlet
Run Average	191.4	0.921	0.576	18.94

## Appendix D

Location **BASF Corporation - Freeport, TX**


Source **Incinerator IN-701 EPN 4-1-1**

Project No. **AST-2024-2250**

Parameters **PCB, PAH**

Date	Nozzle ID	#1	#2	#3	Dn (Average)	Difference	Criteria	Material
5/14/24	GN-331	0.331	0.331	0.331	0.331	0.000	≤ 0.004 in.	glass
5/14/24	GN-310	0.310	0.310	0.310	0.310	0.000		glass
5/17/24	GN-320	0.320	0.320	0.320	0.320	0.000		glass
Date	Pitot ID	Evidence of damage?	Evidence of mis-alignment?	Calibration or Repair required?				
5/14/24	PR-508-1	no	no	no				
Date	Probe or Thermocouple ID	Reference Temp. (°F)	Indicated Temp. (°F)	Difference	Criteria	Probe Length		
5/14/24	PR-508-1	85.0	85.0	0.0%	± 1.5 % (absolute)	8 '		
Field Balance Check								
Date	05/14/24	05/15/24	05/16/24	05/17/24	05/20/24			
Balance ID:	BAL-5-1	BAL-5-1	BAL-5-1	BAL-5-1	BAL-5-1			
Certified Weight ID:	HOU-1KG-7	HOU-1KG-7	HOU-1KG-7	HOU-1KG-7	HOU-1KG-7			
Certified Weight Expiration:	1/9/26	1/9/26	1/9/26	1/9/26	1/9/26			
Certified Weight (g):	1000.0	1000.0	1000.0	1000.0	1000.0			
Measured Weight (g):	1000.0	1000.0	1000.0	1000.0	1000.0			
Weight Difference (g):	0.0	0.0	0.0	0.0	0.0	--		
Date	Barometric Pressure	Evidence of damage?	Reading Verified	Calibration or Repair required?	Weather Station Location			
5/14/24	Weather Station	NA	NA	NA	Freeport, TX			
Date	Meter Box ID	Positive Pressure Leak Check						
5/14/24	MB 509	Pass						
Reagent	Lot#	Field Prep performed	Field Lot	Date	By			
Acetone	232064	No						
Toluene	234975	No						



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		Revision	24.0
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#### Equipment Detail - Dry Gas Meter

Console ID: MB 509  
 Meter S/N: 18H0120031  
 Critical Orifice S/N: 1535s

#### Calibration Detail

Initial Barometric Pressure, in. Hg	(P <sub>b</sub> )	30.21					
Final Barometric Pressure, in. Hg	(P <sub>bF</sub> )	30.21					
Average Barometric Pressure, in. Hg	(P <sub>b</sub> )	30.21					
Critical Orifice ID	(Y)	12	12	17	17	20	20
K' Factor, ft <sup>3</sup> ·R <sup>1/2</sup> / in. WC·min	(K')	0.3147	0.3147	0.4430	0.443	0.5199	0.520
Vacuum Pressure, in. Hg	(V <sub>p</sub> )	19.5	19.5	17.0	17.0	16.0	16.0
Initial DGM Volume, ft <sup>3</sup>	(V <sub>m</sub> )	0.000	6.223	0.000	8.582	0.000	0.000
Final DGM Volume, ft <sup>3</sup>	(V <sub>mF</sub> )	6.223	12.452	8.582	17.207	10.153	10.242
Total DGM Volume, ft <sup>3</sup>	(V <sub>m</sub> )	6.223	6.229	8.582	8.625	10.153	10.242
Ambient Temperature, °F	(T <sub>a</sub> )	72	72	72	72	72	72
Initial DGM Temperature, °F	(T <sub>m</sub> )	80	80	77	74	83	86
Final DGM Temperature, °F	(T <sub>mF</sub> )	80	81	80	76	85	90
Average DGM Temperature, °F	(T <sub>m</sub> )	80	81	79	75	84	88
Elapsed Time	(Θ)	15.00	15.00	15.00	15.00	15.00	15.00
Meter Orifice Pressure, in. WC	(ΔH)	0.59	0.59	1.13	1.13	1.55	1.55
Standard Meter volume, ft <sup>3</sup>	(V <sub>mstd</sub> )	6.1536	6.1538	8.5211	8.6198	9.9891	10.0031
Standard Critical Orifice Volume, ft <sup>3</sup>	(V <sub>cr</sub> )	6.1846	6.1846	8.7060	8.7060	10.2172	10.2172
Meter Correction Factor	(Y)	1.005	1.005	1.022	1.010	1.023	1.021
Tolerance	--	0.009	0.009	0.007	0.004	0.009	0.007
Orifice Calibration Value	(ΔH @)	1.930	1.929	1.874	1.886	1.849	1.835
Tolerance	--	0.047	0.045	0.010	0.002	0.035	0.048
Orifice Cal Check	--	1.67		1.08		1.70	
Meter Correction Factor	(Y)	1.014					
Orifice Calibration Value	(ΔH @)	1.884					
Positive Pressure Leak Check		Yes					

#### Equipment Detail - Thermocouple Sensor


Reference Calibrator Make: Omega  
 Reference Calibrator Model: CL3512A  
 Reference Calibrator S/N: 18000594

#### Calibration Detail

Reference Temp.		Display Temp.		Accuracy	Absolute Difference
°F	°R	°F	°R	%	°F
0	460	0	460	0.0	0
68	528	68	528	0.0	0
100	560	101	561	-0.2	1
223	683	224	684	-0.1	1
248	708	250	710	-0.3	2
273	733	275	735	-0.3	2
300	760	302	762	-0.3	2
400	860	402	862	-0.2	2
500	960	502	962	-0.2	2
600	1,060	602	1,062	-0.2	2
700	1,160	703	1,163	-0.3	3
800	1,260	803	1,263	-0.2	3
900	1,360	903	1,363	-0.2	3
1,000	1,460	1,003	1,463	-0.2	3
1,100	1,560	1,104	1,564	-0.3	4
1,200	1,660	1,204	1,664	-0.2	4

#### Personnel

Calibration By: MRM  
 Calibration Date: 4/22/2024  
 Reviewed By: JMY

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#### Equipment Detail - Dry Gas Meter

Console ID: MB 509  
 Meter S/N: 18H0120031  
 Critical Orifice S/N: CO-1789

#### Calibration Detail

Initial Barometric Pressure, in. Hg	(P <sub>b</sub> )	29.87					
Final Barometric Pressure, in. Hg	(P <sub>bF</sub> )	29.87					
Average Barometric Pressure, in. Hg	(P <sub>b</sub> )	29.87					
Critical Orifice ID	(Y)	12	12	17	17	20	20
K' Factor, ft <sup>3</sup> ·R <sup>1/2</sup> / in. WC·min	(K')	0.3307	0.3307	0.4530	0.453	0.5506	0.551
Vacuum Pressure, in. Hg	(V <sub>p</sub> )	23.0	23.0	21.0	21.0	20.0	20.0
Initial DGM Volume, ft <sup>3</sup>	(V <sub>m</sub> )	0.000	0.000	0.000	0.000	0.000	0.000
Final DGM Volume, ft <sup>3</sup>	(V <sub>mF</sub> )	15.387	15.387	9.003	9.003	7.248	7.248
Total DGM Volume, ft <sup>3</sup>	(V <sub>m</sub> )	15.387	15.387	9.003	9.003	7.248	7.248
Ambient Temperature, °F	(T <sub>a</sub> )	79	79	79	79	79	79
Initial DGM Temperature, °F	(T <sub>m</sub> )	84	84	84	84	85	85
Final DGM Temperature, °F	(T <sub>mF</sub> )	85	85	85	85	86	86
Average DGM Temperature, °F	(T <sub>m</sub> )	85	85	85	85	86	86
Elapsed Time	(Θ)	35.00	35.00	15.00	15.00	10.00	10.00
Meter Orifice Pressure, in. WC	(ΔH)	0.59	0.59	1.13	1.13	1.65	1.65
Standard Meter volume, ft <sup>3</sup>	(V <sub>mstd</sub> )	14.9200	14.9200	8.7413	8.7413	7.0334	7.0334
Standard Critical Orifice Volume, ft <sup>3</sup>	(V <sub>cr</sub> )	14.8959	14.8959	8.7449	8.7449	7.0860	7.0860
Meter Correction Factor	(Y)	0.998	0.998	1.000	1.000	1.007	1.007
Tolerance	--	0.004	0.004	0.002	0.002	0.005	0.005
Orifice Calibration Value	(ΔH @)	1.777	1.777	1.816	1.816	1.794	1.794
Tolerance	--	0.019	0.019	0.020	0.020	0.002	0.002
Orifice Cal Check	--	0.90		0.70		0.91	
Meter Correction Factor	(Y)	1.002					
Orifice Calibration Value	(ΔH @)	1.795					
Positive Pressure Leak Check		Yes					

#### Equipment Detail - Thermocouple Sensor

Reference Calibrator Make: OMEGA  
 Reference Calibrator Model: CL23A  
 Reference Calibrator S/N: T-296766

#### Calibration Detail

Reference Temp.		Display Temp.		Accuracy	Absolute Difference
°F	°R	°F	°R	%	°F
0	460	0	460	0.0	0
68	528	68	528	0.0	0
100	560	100	560	0.0	0
223	683	223	683	0.0	0
248	708	248	708	0.0	0
273	733	273	733	0.0	0
300	760	300	760	0.0	0
400	860	400	860	0.0	0
500	960	500	960	0.0	0
600	1,060	600	1,060	0.0	0
700	1,160	700	1,160	0.0	0
800	1,260	800	1,260	0.0	0
900	1,360	900	1,360	0.0	0
1,000	1,460	1,000	1,460	0.0	0
1,100	1,560	1,100	1,560	0.0	0
1,200	1,660	1,200	1,660	0.0	0

#### Personnel

Calibration By: Steven Dryden  
 Calibration Date: 9/16/2024  
 Reviewed By: CWB

	Pitot Calibration-Wind Tunnel	Document ID	620.002
		Revision	20.1
		Effective Date	8/26/2020
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#### Equipment Detail

Model: Type S  
ID: PR-508-1

#### Calibration Detail

Time: 11:00  
T<sub>s</sub>: 58 °F  
Pb: 30.24 in. Hg  
C<sub>pstd</sub>: 0.990

Flow fps	ΔPstd			High Side - "A"			Low Side - "B"		
	Standard	Start	End	ΔPs	σ	ΔPs	Cp(b)	σ	
	in. WC	in. WC	in. WC	in. WC	Cp(a)				Deviation
20	0.09	0.09	0.09	0.13	0.824	-0.002	0.13	0.824	-0.002
30	0.21	0.21	0.21	0.29	0.842	0.016	0.29	0.842	0.016
40	0.38	0.37	0.37	0.53	0.827	0.001	0.53	0.827	0.001
50	0.59	0.58	0.58	0.83	0.828	0.002	0.83	0.828	0.002
60	0.85	0.83	0.83	1.25	0.807	-0.019	1.25	0.807	-0.019
70	1.15	1.15	1.15	1.65	0.826	0.000	1.65	0.826	0.000
80	1.51	1.50	1.50	2.15	0.827	0.001	2.15	0.827	0.001
90	1.91	1.85	1.85	2.65	0.827	0.001	2.65	0.827	0.001
EPA Method 2 Section 10.1.3 QA/QC									
50	0.59	0.58	0.58	0.83	0.828	0.002	0.83	0.828	0.002
50	0.59	0.58	0.58	0.83	0.828	0.002	0.83	0.828	0.002
Average					0.826	0.005		0.826	0.005
Acceptability Criteria					--	≤ 0.01		--	≤ 0.01
					Cp(a)-Cp(b) ≤ 0.01			Cp(a)-Cp(b) = 0.000	

	Pitot Calibration-Wind Tunnel	Document ID	620.002
		Revision	23.0
		Effective Date	1/25/2023
Issuing Department	Tech Services	Page:	1 of 1

#### Equipment Detail

Model: Type S  
ID: PR-508-1

#### Calibration Detail

Time: 11:40  
T<sub>s</sub>: 88 °F  
Pb: 30.06 in. Hg  
Std Pitot ID: 12-STD-1  
C<sub>pstd</sub>: 0.990

Flow fps	ΔPstd			High Side - "A"			Low Side - "B"		
	Standard	Start	End	ΔPs	Cp(a)	σ	ΔPs	Cp(b)	σ
	in. WC	in. WC	in. WC	in. WC		Deviation	in. WC		Deviation
20	0.09	0.09	0.09	0.14	0.794	-0.003	0.13	0.824	0.027
30	0.20	0.21	0.20	0.30	0.818	0.021	0.31	0.805	0.008
40	0.35	0.36	0.36	0.57	0.787	-0.010	0.56	0.794	-0.003
50	0.55	0.56	0.55	0.85	0.800	0.003	0.84	0.805	0.008
60	0.80	0.81	0.81	1.25	0.797	0.000	1.25	0.797	0.000
70	1.08	1.09	1.09	1.68	0.797	0.000	1.72	0.788	-0.009
80	1.42	1.41	1.14	2.10	0.771	-0.026	2.10	0.771	-0.026
90	1.79	1.78	1.79	2.66	0.811	0.014	2.77	0.795	-0.002
EPA Method 2 Section 10.1.3 QA/QC									
50	0.55	0.56	0.57	0.85	0.807	0.010	0.90	0.784	-0.013
50	0.55	0.56	0.57	0.85	0.807	0.010	0.91	0.780	-0.017
Average					0.797	0.010	0.797		
Acceptability Criteria					--	≤ 0.01	--		
					Cp(a)-Cp(b)  ≤ 0.01		Cp(a)-Cp(b)  = 0.000		

#### Personnel

Calibrated By: CWB  
Calibration Date: 7/29/24  
Reviewed By: Stacey Cunningham

**Location** BASF Corporation - Freeport, TX

**Source** Incinerator IN-701 EPN 4-1-1

**Project No.** AST-2024-2250

Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Make</b>	CAI	CAI	VIG
<b>Model</b>	600	600	20-2
<b>S/N</b>	V03021-M	V03021-M	8030320
<b>Operating Range</b>	0-25	0-25	0-100
<b>Cylinder ID</b>			
<b>Zero</b>	NA	NA	NA
<b>Mid</b>	EB0051149	EB0051149	EB0038756
<b>High</b>	EB0050312	EB0050312	EB0038756
<b>Cylinder Certified Values</b>			
<b>Zero</b>	NA	NA	NA
<b>Mid</b>	11.02	10.95	859
<b>High</b>	23.0	22.9	859
<b>Cylinder Expiration Date</b>			
<b>Zero</b>	NA	NA	NA
<b>Mid</b>	11/1/31	11/1/31	7/5/30
<b>High</b>	3/18/31	3/18/31	7/5/30
<b>Type of Sample Line</b>	Heated Sample Line		

## Calibration Data

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/15/24

Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Expected Average Concentration</b>	5.00	7.00	5.00
<b>Span Between</b>			
<b>Low</b>	5.00	7.00	7.50
<b>High</b>	25.00	35.00	12.50
<b>Desired Span</b>	23.00	22.90	30.00
<b>Low Range Gas</b>			
<b>Low</b>	NA	NA	7.50
<b>High</b>	NA	NA	10.50
<b>Mid Range Gas</b>			
<b>Low</b>	9.20	9.16	13.50
<b>High</b>	13.80	13.74	16.50
<b>High Range Gas</b>			
<b>Low</b>	NA	NA	24.00
<b>High</b>	NA	NA	27.00
<b>Actual Concentration (% or ppm)</b>			
<b>Zero</b>	0.00	0.00	0.00
<b>Low</b>	NA	NA	9.00
<b>Mid</b>	11.02	10.95	15.00
<b>High</b>	23.00	22.90	25.50
<b>Upscale Calibration Gas (C<sub>MA</sub>)</b>	Mid	Mid	Mid
<b>Instrument Response (% or ppm)</b>			
<b>Zero</b>	0.00	0.00	0.00
<b>Low</b>	NA	NA	8.98
<b>Mid</b>	10.99	10.98	15.19
<b>High</b>	23.04	22.85	25.39
<b>Performance (% of Span or Cal. Gas Conc.)</b>			
<b>Zero</b>	0.00	0.00	0.00
<b>Low</b>	NA	NA	0.21
<b>Mid</b>	0.13	0.13	1.70
<b>High</b>	0.17	0.22	0.00
<b>Status</b>			
<b>Zero</b>	PASS	PASS	PASS
<b>Low</b>	NA	NA	PASS
<b>Mid</b>	PASS	PASS	PASS
<b>High</b>	PASS	PASS	PASS

## Calibration Data

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/16/24

Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Expected Average Concentration</b>	1.86	7.52	0.05
<b>Span Between</b>			
<b>Low</b>	1.86	7.52	0.08
<b>High</b>	20.00	37.61	0.14
<b>Desired Span</b>	23.00	22.90	30.00
<b>Low Range Gas</b>			
<b>Low</b>	NA	NA	7.50
<b>High</b>	NA	NA	10.50
<b>Mid Range Gas</b>			
<b>Low</b>	9.20	9.16	13.50
<b>High</b>	13.80	13.74	16.50
<b>High Range Gas</b>			
<b>Low</b>	NA	NA	24.00
<b>High</b>	NA	NA	27.00
<b>Actual Concentration (% or ppm)</b>			
<b>Zero</b>	0.00	0.00	0.00
<b>Low</b>	NA	NA	9.00
<b>Mid</b>	11.02	10.95	15.00
<b>High</b>	23.00	22.90	25.50
<b>Upscale Calibration Gas (C<sub>MA</sub>)</b>	Mid	Mid	Mid
<b>Instrument Response (% or ppm)</b>			
<b>Zero</b>	0.00	0.01	0.11
<b>Low</b>	NA	NA	9.06
<b>Mid</b>	10.96	10.99	15.08
<b>High</b>	23.01	22.91	25.38
<b>Performance (% of Span or Cal. Gas Conc.)</b>			
<b>Zero</b>	0.00	0.04	0.00
<b>Low</b>	NA	NA	0.35
<b>Mid</b>	0.26	0.17	0.70
<b>High</b>	0.04	0.04	0.00
<b>Status</b>			
<b>Zero</b>	PASS	PASS	PASS
<b>Low</b>	NA	NA	PASS
<b>Mid</b>	PASS	PASS	PASS
<b>High</b>	PASS	PASS	PASS

## Calibration Data

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/17/24

Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Expected Average Concentration</b>	1.86	7.52	0.05
<b>Span Between</b>			
<b>Low</b>	1.86	7.52	0.08
<b>High</b>	20.00	37.61	0.14
<b>Desired Span</b>	23.00	22.90	30.00
<b>Low Range Gas</b>			
<b>Low</b>	NA	NA	7.50
<b>High</b>	NA	NA	10.50
<b>Mid Range Gas</b>			
<b>Low</b>	9.20	9.16	13.50
<b>High</b>	13.80	13.74	16.50
<b>High Range Gas</b>			
<b>Low</b>	NA	NA	24.00
<b>High</b>	NA	NA	27.00
<b>Actual Concentration (% or ppm)</b>			
<b>Zero</b>	0.00	0.00	0.00
<b>Low</b>	NA	NA	9.00
<b>Mid</b>	11.02	10.95	15.00
<b>High</b>	23.00	22.90	25.50
<b>Upscale Calibration Gas (C<sub>MA</sub>)</b>	Mid	Mid	Mid
<b>Instrument Response (% or ppm)</b>			
<b>Zero</b>	0.03	0.00	0.00
<b>Low</b>	NA	NA	8.98
<b>Mid</b>	11.02	10.95	15.04
<b>High</b>	23.07	22.94	25.49
<b>Performance (% of Span or Cal. Gas Conc.)</b>			
<b>Zero</b>	0.13	0.00	0.00
<b>Low</b>	NA	NA	-0.18
<b>Mid</b>	0.00	0.00	0.31
<b>High</b>	0.30	0.17	0.00
<b>Status</b>			
<b>Zero</b>	PASS	PASS	PASS
<b>Low</b>	NA	NA	PASS
<b>Mid</b>	PASS	PASS	PASS
<b>High</b>	PASS	PASS	PASS



## Calibration Data

**Location:** BASF Corporation - Freeport, TX  
**Source:** Incinerator IN-701 EPN 4-1-1  
**Project No.:** AST-2024-2250  
**Date:** 5/20/24

Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Expected Average Concentration</b>	1.86	7.52	0.05
<b>Span Between</b>			
<b>Low</b>	1.86	7.52	0.08
<b>High</b>	20.00	37.61	0.14
<b>Desired Span</b>	23.00	22.90	30.00
<b>Low Range Gas</b>			
<b>Low</b>	NA	NA	7.50
<b>High</b>	NA	NA	10.50
<b>Mid Range Gas</b>			
<b>Low</b>	9.20	9.16	13.50
<b>High</b>	13.80	13.74	16.50
<b>High Range Gas</b>			
<b>Low</b>	NA	NA	24.00
<b>High</b>	NA	NA	27.00
<b>Actual Concentration (% or ppm)</b>			
<b>Zero</b>	0.00	0.00	0.00
<b>Low</b>	NA	NA	9.00
<b>Mid</b>	11.02	10.95	15.00
<b>High</b>	23.00	22.90	25.50
<b>Upscale Calibration Gas (C<sub>MA</sub>)</b>	Mid	Mid	Mid
<b>Instrument Response (% or ppm)</b>			
<b>Zero</b>	0.02	0.00	0.00
<b>Low</b>	NA	NA	9.06
<b>Mid</b>	10.93	10.93	15.01
<b>High</b>	22.89	22.82	25.23
<b>Performance (% of Span or Cal. Gas Conc.)</b>			
<b>Zero</b>	0.09	0.00	0.00
<b>Low</b>	NA	NA	1.73
<b>Mid</b>	0.39	0.09	1.13
<b>High</b>	0.48	0.35	0.00
<b>Status</b>			
<b>Zero</b>	PASS	PASS	PASS
<b>Low</b>	NA	NA	PASS
<b>Mid</b>	PASS	PASS	PASS
<b>High</b>	PASS	PASS	PASS

## Bias/Drift Determinations

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Run 1 5/15/2024</b>			
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.00
Pretest System Upscale Response	10.96	10.90	15.24
Posttest System Upscale Response	10.98	10.74	15.12
<b>Run 2 5/15/2024</b>			
Pretest System Zero Response	0.00	0.00	0.00
Posttest System Zero Response	0.00	0.00	0.00
Pretest System Upscale Response	10.98	10.74	15.12
Posttest System Upscale Response	10.97	10.78	15.27
<b>Run 3 5/16/2024</b>			
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.01
Pretest System Upscale Response	10.94	10.91	15.03
Posttest System Upscale Response	10.96	10.97	14.98
<b>Run 4 5/16/2024</b>			
Pretest System Zero Response	0.00	0.00	0.01
Posttest System Zero Response	0.00	0.00	0.00
Pretest System Upscale Response	10.96	10.97	14.98
Posttest System Upscale Response	10.96	10.98	15.24
<b>Run 5 5/17/2024</b>			
Pretest System Zero Response	0.03	0.01	0.00
Posttest System Zero Response	0.04	0.00	0.00
Pretest System Upscale Response	11.01	10.88	14.99
Posttest System Upscale Response	11.02	10.83	15.11
<b>Run 6 5/17/2024</b>			
Pretest System Zero Response	0.04	0.00	0.00
Posttest System Zero Response	0.05	0.02	0.00
Pretest System Upscale Response	11.02	10.83	15.11
Posttest System Upscale Response	11.02	10.84	14.96
<b>Run 7 5/18/2024</b>			
Pretest System Zero Response	0.05	0.05	0.00
Posttest System Zero Response	0.06	0.03	0.00
Pretest System Upscale Response	10.92	10.87	14.98
Posttest System Upscale Response	10.94	10.88	14.99

## Bias/Drift Determinations

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Run 1    Date            5/15/24</b>			
Span Value	23.00	22.90	30.00
Initial Instrument Zero Cal Response	0.00	0.00	0.00
Initial Instrument Upscale Cal Response	10.99	10.98	15.19
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.00
Pretest System Upscale Response	10.96	10.90	15.24
Posttest System Upscale Response	10.98	10.74	15.12
Bias (%)			
Pretest Zero	0.00	0.26	NA
Posttest Zero	0.00	0.00	NA
Pretest Span	-0.13	-0.35	NA
Posttest Span	-0.04	-1.05	NA
Drift (%)			
Zero	0.00	-0.26	0.00
Mid	0.09	-0.70	-0.40
<b>Run 2    Date            5/15/24</b>			
Span Value	23.00	22.90	30.00
Instrument Zero Cal Response	0.00	0.00	0.00
Instrument Upscale Cal Response	10.99	10.98	15.08
Pretest System Zero Response	0.00	0.00	0.00
Posttest System Zero Response	0.00	0.00	0.00
Pretest System Upscale Response	10.98	10.74	15.12
Posttest System Upscale Response	10.97	10.78	15.27
Bias (%)			
Pretest Zero	0.00	0.00	NA
Posttest Zero	0.00	0.00	NA
Pretest Span	-0.04	-1.05	NA
Posttest Span	-0.09	-0.87	NA
Drift (%)			
Zero	0.00	0.00	0.00
Mid	-0.04	0.17	0.50
<b>Run 3    Date            5/16/24</b>			
Span Value	23.00	22.90	30.00
Instrument Zero Cal Response	0.00	0.01	0.11
Instrument Upscale Cal Response	10.96	10.99	15.08
Pretest System Zero Response	0.00	0.06	0.00
Posttest System Zero Response	0.00	0.00	0.01
Pretest System Upscale Response	10.94	10.91	15.03
Posttest System Upscale Response	10.96	10.97	14.98
Bias (%)			
Pretest Zero	0.00	0.22	NA
Posttest Zero	0.00	-0.04	NA
Pretest Span	-0.09	-0.35	NA
Posttest Span	0.00	-0.09	NA
Drift (%)			
Zero	0.00	-0.26	0.03
Mid	0.09	0.26	-0.17

## Bias/Drift Determinations

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Run 4    Date    5/16/24</b>			
Span Value	23.00	22.90	30.00
Instrument Zero Cal Response	0.00	0.01	0.11
Instrument Upscale Cal Response	10.96	10.99	15.08
Pretest System Zero Response	0.00	0.00	0.01
Posttest System Zero Response	0.00	0.00	0.00
Pretest System Upscale Response	10.96	10.97	14.98
Posttest System Upscale Response	10.96	10.98	15.24
Bias (%)			
Pretest Zero	0.00	0.04	NA
Posttest Zero	0.00	0.04	NA
Pretest Span	0.00	0.09	NA
Posttest Span	0.00	0.04	NA
Drift (%)			
Zero	0.00	0.00	-0.03
Mid	0.00	0.04	0.87
<b>Run 5    Date    5/17/24</b>			
Span Value	23.00	22.90	30.00
Instrument Zero Cal Response	0.03	0.00	0.00
Instrument Upscale Cal Response	11.02	10.95	15.04
Pretest System Zero Response	0.03	0.01	0.00
Posttest System Zero Response	0.04	0.00	0.00
Pretest System Upscale Response	11.01	10.88	14.99
Posttest System Upscale Response	11.02	10.83	15.11
Bias (%)			
Pretest Zero	0.00	0.04	NA
Posttest Zero	0.04	0.00	NA
Pretest Span	0.04	0.31	NA
Posttest Span	0.00	0.52	NA
Drift (%)			
Zero	0.04	-0.04	0.00
Mid	0.04	-0.22	0.40
<b>Run 6    Date    5/17/24</b>			
Span Value	23.00	22.90	30.00
Instrument Zero Cal Response	0.03	0.00	0.00
Instrument Upscale Cal Response	11.02	10.95	15.04
Pretest System Zero Response	0.04	0.00	0.00
Posttest System Zero Response	0.05	0.02	0.00
Pretest System Upscale Response	11.02	10.83	15.11
Posttest System Upscale Response	11.02	10.84	14.96
Bias (%)			
Pretest Zero	0.04	0.00	NA
Posttest Zero	0.09	0.09	NA
Pretest Span	0.00	0.52	NA
Posttest Span	0.00	0.48	NA
Drift (%)			
Zero	0.04	0.09	0.00
Mid	0.00	0.04	-0.50

## Bias/Drift Determinations

**Location:** BASF Corporation - Freeport, TX

**Source:** Incinerator IN-701 EPN 4-1-1

**Project No.:** AST-2024-2250

Parameter	O <sub>2</sub> - Outlet	CO <sub>2</sub> - Outlet	THC - Outlet
<b>Run 7      Date      5/20/24</b>			
Span Value	23.00	22.90	30.00
Instrument Zero Cal Response	0.02	0.00	0.00
Instrument Upscale Cal Response	10.93	10.93	15.01
Pretest System Zero Response	0.05	0.05	0.00
Posttest System Zero Response	0.06	0.03	0.00
Pretest System Upscale Response	10.92	10.87	14.98
Posttest System Upscale Response	10.94	10.88	14.99
Bias (%)			
Pretest Zero	0.13	0.22	NA
Posttest Zero	0.17	0.13	NA
Pretest Span	0.04	0.26	NA
Posttest Span	0.04	0.22	NA
Drift (%)			
Zero	0.04	-0.09	0.00
Mid	0.09	0.04	0.03



Red Ball Technical Gas Service  
555 Craig Kennedy Way  
Shreveport, LA 71107  
800-551-8150  
PGVP Vendor ID # G12023

## EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0050312	Certification Date:	03/20/2023
Product ID Number:	125372	Expiration Date:	03/18/2031
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0050312.20230228-0	Lot Number:	EB0050312.20230228
Customer PO. NO.:		Tracking Number:	073560728
Customer:		Previous Certification Dates:	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G2.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

### Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Carbon Dioxide	22.9 %	±0.13 %	FTIR	03/20/2023
Oxygen	23.0 %	±0.13 %	MPA	03/13/2023
Nitrogen	Balance			

Analytical Measurement Data Available Online.

### Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
CC237232	CC237232.20180504	07/21/2026	GMIS	N2	O2	24 %	0.497	071001
CC724006	CC724006.20201022	03/08/2029	GMIS	N2	CO2	19.49 %	0.191	C1847810.03

### Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
O2	MPA	Thermo	410i	1162980025	03/13/2023
CO2	FTIR	MKS	MKS 2031DJG2EKVS13T	017146467	03/20/2023

### SMART-CERT



This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of k=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

Jasmine Godfrey

Jasmine Godfrey  
Analytical Chemist  
Assay Laboratory: Red Ball TGS  
Version 02.1 - Revised on 2018-09-17  
BAS-FHWC-Freepont-001908



Red Ball Technical Gas Service  
555 Craig Kennedy Way  
Shreveport, LA 71107  
800-551-8150  
PGVP Vendor ID # G12023

## EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0051149	Certification Date:	11/03/2023
Product ID Number:	125371	Expiration Date:	11/01/2031
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0051149.20231024-0	Lot Number:	EB0051149.20231024
Customer PO. NO.:		Tracking Number:	074159680
Customer:		Previous Certification Dates:	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G1.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

### Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Carbon Dioxide	10.95 %	±0.05 %	NDIR	11/02/2023
Oxygen	11.02 %	±0.03 %	MPA	11/03/2023
Nitrogen	Balance			

Analytical Measurement Data Available Online.

### Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
CC716408	CC716408.20230109	07/09/2031	GMIS	N2	O2	12.003 %	0.122	SRM 2659a
CC749243	CC749243.20230228	07/09/2031	GMIS	N2	O2	20.01 %	0.112	SRM 2659a
EB0004315	EB0004315.20201022	04/05/2030	GMIS	N2	CO2	24.75 %	0.237	C2190301.03
EB0022021	EB0022021.20180323	07/15/2026	GMIS	N2	CO2	14.9 %	0.777	101001

### Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
CO2	NDIR	Thermo	410i	1162980025	10/17/2023
O2	MPA	Thermo	410i	1162980025	10/31/2023

### SMART-CERT



This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of k=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

*Hayden Hartley*

Hayden Hartley  
Analyst

Assay Laboratory: Red Ball TGS

Version 02.1 - Revised on 2018-09-17  
BASF-HWC-Freepont-001909



Red Ball Technical Gas Service  
555 Craig Kennedy Way  
Shreveport, LA 71107  
800-551-8150  
PGVP Vendor ID # G12022

## EPA PROTOCOL GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0038756	Certification Date:	07/07/2022
Product ID Number:	125263	Expiration Date:	07/05/2030
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0038756.20220630-0	Lot Number:	EB0038756.20220630
Customer PO. NO.:		Tracking Number:	056854295
Customer:		Previous Certification Dates:	

This calibration standard has been certified per the May 2012 EPA Traceability Protocol, Document EPA-600/R-12/531, using procedure G1.

Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

### Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle	Assayed On
Propane	859 PPM	±8 PPM	FTIR	07/07/2022
Nitrogen	Balance			

Analytical Measurement Data Available Online.

### Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
EB0050267	EB0050267.20160114g	05/17/2024	GMIS	N2	C3H8	1494 PPM	0.603	2647a
EB0057206	EB0057206.20160107	05/17/2024	GMIS	N2	C3H8	750 PPM	0.634	5647A

### Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
C3H8	FTIR	MKS	MKS 2031DJG2EKVS13T	017146467	06/21/2022

### SMART-CERT



This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of k=2 to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

*B. Theus*

Brandon Theus  
Laboratory Supervisor  
Assay Laboratory: Red Ball TGS  
Version 02-1-17 Revised on 2018-09-17  
BASF-HWC-Freepont-001910





Location: BASF Corporation - Freeport, TX  
Source: Incinerator IN-701 EPN 4-1-1  
Project No.: AST-2024-2250  
Date 5/14/24

Method Criteria		EPA
Parameter		O2
	Make	CAI
	Model	600
	S/N	V03021-M
	Span	23.0
Cylinder Number ID		
	Zero	NA
	Mid	EB0051149
	High	EB0050312
Cylinder Certified Values		
	Zero	0.0
	Mid	11.02
	High	23.0
Instrument Response (% or ppm)		
	Zero	0.0
	Mid	11.1
	High	23.0
Calibration Gas Selection (% of Span)		
	Mid	47.9
	High	100.0
Calibration Error Performance (% of Span)		
	Zero	0.1
	Mid	0.1
	High	0.1
Linearity (% of Range)		
		0.0

Analyzer Make: CAI  
Analyzer Model: 600  
Analyzer SN: V03021  
Enviroics ID: 9391  
Component/Balance Gas: O2/N2  
Cylinder Gas ID (Dilution): EB0050312  
Cylinder Gas Concentration (Dilution), %: 23.0  
Cylinder Gas ID (Mid-Level): EB0051149  
Cylinder Gas Concentration (Mid-Level), %: 11.02

Target Mass Flow Contollers	Target Dilution (%)	Target Flow Rate lpm	Target Concentration (%)	Actual Concentration (%)	Injection 1 Analyzer Concentration (%)	Injection 2 Analyzer Concentration (%)	Injection 3 Analyzer Concentration (%)	Average Analyzer Concentration (%)	Difference (%)	Average Error ( ± 2 %)
10L/10L*	90.0	7.0	20.7	20.7	20.6	20.6	20.6	20.59	-0.11	-0.5%
10L/10L*	80.0	7.0	18.4	18.4	18.4	18.4	18.5	18.43	0.03	0.2%
10L/10L	80.0	5.0	18.4	18.4	18.4	18.4	18.5	18.43	0.03	0.2%
10L/10L	50.0	5.0	11.5	11.5	11.5	11.5	11.5	11.52	0.02	0.2%
10L/1L	20.0	4.0	4.6	4.6	4.7	4.6	4.6	4.63	0.03	0.7%
10L/1L	10.0	4.0	2.3	2.3	2.3	2.3	2.3	2.28	-0.02	-1.0%

\*Not all AST Enviroics Units have 2-10L Mass Flow Controllers. For these units the 90% @ 7lpm and 80% @ 7lpm injections will not be conducted.

Average Analyzer Concentration (%)	Injection 1 Error ( ± 2 %)	Injection 2 Error ( ± 2 %)	Injection 3 Error ( ± 2 %)
20.59	0.1%	0.0%	-0.1%
18.43	-0.1%	0.0%	0.1%
18.43	-0.1%	0.0%	0.1%
11.52	0.1%	0.0%	-0.1%
4.63	0.4%	0.0%	-0.4%
2.28	0.1%	0.1%	-0.3%

Mid-Level Supply Gas Calibration Direct to Analyzer

Calibration Gas Concentration (%)	Injection 1 Analyzer Concentration (%)	Injection 2 Analyzer Concentration (%)	Injection 3 Analyzer Concentration (%)	Average Analyzer Concentration (%)	Difference (%)	Average Error ( ± 2 %)
11.02	11.0	11.0	11.0	10.96	-0.06	-0.6%

### Mass Flow Controller Calibration

<b>Dilution System Make:</b>	Envionics
<b>Dilution System Model:</b>	4040
<b>Dilution System S/N:</b>	9391
<b>Calibration Equipment Make:</b>	Alicat Scientific
<b>Calibration Equipment Model:</b>	M-10SLPD/5MM-D/5M, M-1SLPM-D/5M
<b>Calibration Equipment S/N:</b>	391710, 391709
<b>Flow Cell S/N:</b>	127208
<b>Flow Cell S/N:</b>	127206
<b>Calibration Gas:</b>	Nitrogen
<b>Barometric Pressure, mmHg:</b>	635
<b>Ambient Temperature, °F:</b>	71

Mass Flow Controller ID	#1			#2			#3			#4		
<b>Size, ccm:</b>	10,000			10,000			1,000			100		
<b>Make:</b>	Hastings			Hastings			Hastings			Hastings		
<b>Model:</b>												
<b>S/N:</b>	1207435003			1207435004			1207437002			1207439002		
	Set Flow	True Flow	Difference	Set Flow	True Flow	Difference	Set Flow	True Flow	Difference	Set Flow	True Flow	Difference
	cc/min	cc/min		cc/min	cc/min		cc/min	cc/min		cc/min	cc/min	
5%	500	520	4.0%	500	530	6.0%	50.0	54.5	9.0%	5	5	8.0%
10%	1,000	1,045	4.5%	1,000	1,060	6.0%	100.0	106.0	6.0%	10	11	7.0%
20%	2,000	2,100	5.0%	2,000	2,100	5.0%	200.0	213.2	6.6%	20	21	4.5%
30%	3,000	3,140	4.7%	3,000	3,135	4.5%	300.0	318.8	6.3%	30	31	3.3%
40%	4,000	4,170	4.3%	4,000	4,145	3.6%	400.0	425.2	6.3%	40	41	3.5%
50%	5,000	5,190	3.8%	5,000	5,140	2.8%	500.0	529.6	5.9%	50	51	2.6%
60%	6,000	6,185	3.1%	6,000	6,140	2.3%	600.0	632.2	5.4%	60	61	2.3%
70%	7,000	7,219	3.1%	7,000	7,145	2.1%	700.0	735.2	5.0%	70	72	2.1%
80%	8,000	8,195	2.4%	8,000	8,150	1.9%	800.0	843.2	5.4%	80	82	2.5%
90%	9,000	9,207	2.3%	9,000	9,145	1.6%	900.0	950.5	5.6%	90	92	2.6%
100%	10,000	10,216	2.2%	10,000	10,105	1.1%	1000.0	1050.0	5.0%	100	102	2.0%

Note: The mass flow controller's calibration values are used by the dilution system's operating software to improve accuracy. These calibrations are not necessarily indicative of the systems overall performance. Performance is verified by conducting a Method 205 prior to each field use.

Calibration Performed By Steve Dryden

Date 7/28/23



Location BASF Corporation - Freeport, TX  
Source Incinerator IN-701 EPN 4-1-1  
Project No. AST-2024-2250  
Date 5/14/2024  
Ethylene Cylinder ID EB0099721  
Concentration (ppmv) 102  
Instrument Outlet MKS 3 (Serial #016589333)

CTS 1	98.73	CTS 7	99.37	AVERAGE	99.16	Greatest Deviation from average	
CTS 2	98.78	CTS 8	99.65	MAX	99.65		0.50%
CTS 3	99.48	CTS 9	99.06	deviation	0.50	Agreement with Assumed Pathlength	
CTS 4	99.46	CTS 10	98.83	MIN	98.72		97.21%
CTS 5	99.08	CTS 11	98.72	deviation	0.44	within 5% no correction required	
CTS 6	99.54	CTS 12	99.22				

CTS 1						CTS 7					
Date	Time	File	Temperature (° Pressure		Ethylene	Date	Time	File	Temperature (° Pressure		Ethylene
5/14/24	14:00:35	AST-2024-2250 BA	191.5	1.005	98.70	5/16/24	16:02:22	AST-2024-2250 BA	191.6	1.000	99.28
5/14/24	14:01:38	AST-2024-2250 BA	191.5	1.005	98.75	5/16/24	16:03:25	AST-2024-2250 BA	191.6	1.000	99.32
5/14/24	14:02:41	AST-2024-2250 BA	191.5	1.005	98.74	5/16/24	16:04:28	AST-2024-2250 BA	191.6	1.000	99.51
CTS 2						CTS 8					
Date	Time	File	Temperature (° Pressure		Ethylene	Date	Time	File	Temperature (° Pressure		Ethylene
5/15/24	7:23:20	AST-2024-2250 BA	191.5	1.007	98.36	5/17/24	6:33:47	AST-2024-2250 BA	191.5	1.003	99.92
5/15/24	7:24:22	AST-2024-2250 BA	191.5	1.007	98.92	5/17/24	6:34:49	AST-2024-2250 BA	191.5	1.003	99.44
5/15/24	7:25:25	AST-2024-2250 BA	191.5	1.007	99.06	5/17/24	6:35:52	AST-2024-2250 BA	191.5	1.003	99.61
CTS 3						CTS 9					
Date	Time	File	Temperature (° Pressure		Ethylene	Date	Time	File	Temperature (° Pressure		Ethylene
5/15/24	13:41:12	AST-2024-2250 BA	191.5	1.007	99.07	5/17/24	11:20:55	AST-2024-2250 BA	191.6	1.006	99.00
5/15/24	13:42:15	AST-2024-2250 BA	191.6	1.007	99.57	5/17/24	11:21:57	AST-2024-2250 BA	191.7	1.006	99.34
5/15/24	13:43:18	AST-2024-2250 BA	191.6	1.007	99.79	5/17/24	11:23:00	AST-2024-2250 BA	191.7	1.006	98.83
CTS 4						CTS 10					
Date	Time	File	Temperature (° Pressure		Ethylene	Date	Time	File	Temperature (° Pressure		Ethylene
5/15/24	18:25:13	AST-2024-2250 BA	191.7	1.006	98.85	5/17/24	15:53:38	AST-2024-2250 BA	191.7	1.005	98.72
5/15/24	18:26:16	AST-2024-2250 BA	191.6	1.006	99.64	5/17/24	15:54:41	AST-2024-2250 BA	191.7	1.005	98.62
5/15/24	18:27:19	AST-2024-2250 BA	191.6	1.006	99.89	5/17/24	15:55:44	AST-2024-2250 BA	191.7	1.005	99.14
CTS 5						CTS 11					
Date	Time	File	Temperature (° Pressure		Ethylene	Date	Time	File	Temperature (° Pressure		Ethylene
5/16/24	6:36:10	AST-2024-2250 BA	191.6	1.005	99.11	5/20/24	9:25:11	AST-2024-2250 BA	191.6	1.008	98.81
5/16/24	6:37:13	AST-2024-2250 BA	191.6	1.005	99.20	5/20/24	9:26:14	AST-2024-2250 BA	191.7	1.008	98.75
5/16/24	6:38:16	AST-2024-2250 BA	191.6	1.005	98.91	5/20/24	9:27:17	AST-2024-2250 BA	191.7	1.008	98.59
CTS 6						CTS 12					
Date	Time	File	Temperature (° Pressure		Ethylene	Date	Time	File	Temperature (° Pressure		Ethylene
5/16/24	11:21:12	AST-2024-2250 BA	191.6	1.004	99.27	5/20/24	15:20:57	AST-2024-2250 BA	191.7	1.009	99.09
5/16/24	11:22:15	AST-2024-2250 BA	191.6	1.004	99.56	5/20/24	15:22:00	AST-2024-2250 BA	191.7	1.009	99.33
5/16/24	11:23:18	AST-2024-2250 BA	191.6	1.004	99.78	5/20/24	15:23:03	AST-2024-2250 BA	191.7	1.009	99.23

Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Date	5/14/2024

Spike Cylinder ID	CC731714	Component
Spike Gas concentration	102	Hydrogen Cyanide
Tracer Cylinder ID	CC731714	Component
Tracer Gas concentration	10.1	SF6
Instrument ID     Outlet	MKS 3 (Serial #016589333)	

## Direct Spike Values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
05/14/24	14:34:52	AST-2024-2250 BA	191.5	1.005	88.20	9.688
05/14/24	14:35:55	AST-2024-2250 BA	191.4	1.005	88.20	9.706
05/14/24	14:36:58	AST-2024-2250 BA	191.4	1.005	88.32	9.722
05/14/24	14:38:01	AST-2024-2250 BA	191.4	1.005	88.17	9.720
05/14/24	14:39:04	AST-2024-2250 BA	191.5	1.005	88.32	9.720
05/14/24	14:40:07	AST-2024-2250 BA	191.5	1.005	88.18	9.707
05/14/24	14:41:09	AST-2024-2250 BA	191.5	1.005	88.05	9.703
Average					88.20	9.709

## Native Values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
05/14/24	16:20:42	AST-2024-2250 BA	191.2	0.900	0.57	0.010
05/14/24	16:21:44	AST-2024-2250 BA	191.2	0.918	0.57	0.010
05/14/24	16:22:47	AST-2024-2250 BA	191.4	1.005	1.14	0.010
05/14/24	16:23:50	AST-2024-2250 BA	191.6	1.004	1.29	0.010
05/14/24	16:24:53	AST-2024-2250 BA	191.7	1.004	1.58	0.010
05/14/24	16:25:56	AST-2024-2250 BA	191.7	1.004	1.61	0.010
05/14/24	16:26:59	AST-2024-2250 BA	191.8	1.003	1.85	0.010
Average					1.23	0.010

## Spiked values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
05/14/24	16:31:10	AST-2024-2250 BA	191.2	0.901	4.62	0.484
05/14/24	16:32:13	AST-2024-2250 BA	191.2	0.899	5.52	0.711
05/14/24	16:33:16	AST-2024-2250 BA	191.2	0.896	4.90	0.620
05/14/24	16:34:19	AST-2024-2250 BA	191.1	0.902	4.71	0.598
05/14/24	16:35:22	AST-2024-2250 BA	191.2	0.898	4.93	0.615
05/14/24	16:36:25	AST-2024-2250 BA	191.2	0.909	4.75	0.587
05/14/24	16:37:28	AST-2024-2250 BA	191.4	1.005	4.59	0.567
Average					4.86	0.597

Dilution Factor  
6.1%

Calculated Spike  
6.49

Spike Recovery  
74.86%



Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Date	5/20/2024

Spike Cylinder ID	CC731714	Component
Spike Gas concentration	102	Hydrogen Cyanide
Tracer Cylinder ID	CC731714	Component
Tracer Gas concentration	10.1	SF6
Instrument ID     Outlet	MKS 3 (Serial #016589333)	

#### Direct Spike Values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
05/20/24	9:39:51	AST-2024-2250 BA	191.7	1.008	87.19	9.485
05/20/24	9:40:54	AST-2024-2250 BA	191.8	1.008	86.81	9.456
05/20/24	9:41:57	AST-2024-2250 BA	191.7	1.008	87.33	9.467
05/20/24	9:43:00	AST-2024-2250 BA	191.7	1.008	87.52	9.498
05/20/24	9:44:02	AST-2024-2250 BA	191.8	1.008	87.83	9.522
05/20/24	9:45:05	AST-2024-2250 BA	191.7	1.008	87.89	9.531
05/20/24	9:46:08	AST-2024-2250 BA	191.7	1.008	87.73	9.514
Average					<b>87.47</b>	<b>9.496</b>

#### Native Values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
05/20/24	9:54:31	AST-2024-2250 BA	191.1	0.911	0.68	0.010
05/20/24	9:55:34	AST-2024-2250 BA	191.2	0.910	0.44	0.010
05/20/24	9:56:37	AST-2024-2250 BA	191.2	0.909	0.39	0.010
05/20/24	9:57:40	AST-2024-2250 BA	191.1	0.914	0.46	0.010
05/20/24	9:58:43	AST-2024-2250 BA	191.2	0.910	0.57	0.010
05/20/24	9:59:46	AST-2024-2250 BA	191.2	0.910	0.69	0.010
05/20/24	10:00:48	AST-2024-2250 BA	191.2	0.912	0.49	0.010
Average					<b>0.53</b>	<b>0.010</b>

#### Spiked values

Date	Time	File	Temperature (C)	Pressure	Spike (ppm)	Tracer (ppm)
05/20/24	10:03:57	AST-2024-2250 BA	191.3	0.910	5.17	0.604
05/20/24	10:05:00	AST-2024-2250 BA	191.3	0.913	5.64	0.620
05/20/24	10:06:03	AST-2024-2250 BA	191.3	0.915	5.76	0.613
05/20/24	10:07:06	AST-2024-2250 BA	191.3	0.909	5.38	0.601
05/20/24	10:08:09	AST-2024-2250 BA	191.3	0.911	5.56	0.605
05/20/24	10:09:11	AST-2024-2250 BA	191.3	0.907	5.14	0.577
05/20/24	10:10:14	AST-2024-2250 BA	191.3	0.910	4.98	0.571
Average					<b>5.37</b>	<b>0.599</b>

Dilution Factor  
6.2%

Calculated Spike  
5.92

Spike Recovery  
90.75%



Red Ball Technical Gas Service  
555 Craig Kennedy Way  
Shreveport, LA 71107  
800-551-8150  
PGVP Vendor ID # G12023

## CERTIFIED GAS CERTIFICATE OF ANALYSIS

Cylinder Number:	EB0099721	Certification Date:	11/13/2023
Product ID Number:	124838	Expiration Date:	11/12/2025
Cylinder Pressure:	1900 PSIG	MFG Facility:	- Shreveport - LA
COA #	EB0099721.20231102-0	Lot Number:	EB0099721.20231102
Customer PO. NO.:		Tracking Number:	095703006
Customer:		Previous Certification Dates:	

This mixture is for laboratory use only, not for drug, household or other use.  
This mixture is certified in Mole % to be within  $\pm 2\%$  of the actual number reported with a confidence of 95%.  
This mixture was manufactured by scale; weights traceable to N.I.S.T. Certificate #822/266926-02.  
Do Not Use This Cylinder Below 100 psig (0.7 Megapascal).

### Certified Concentration(s)

Component	Concentration	Uncertainty	Analytical Principle
Ethylene	102 PPM	$\pm 2\%$ NIST	FTIR
Nitrogen	Balance		

Analytical Measurement Data Available Online.

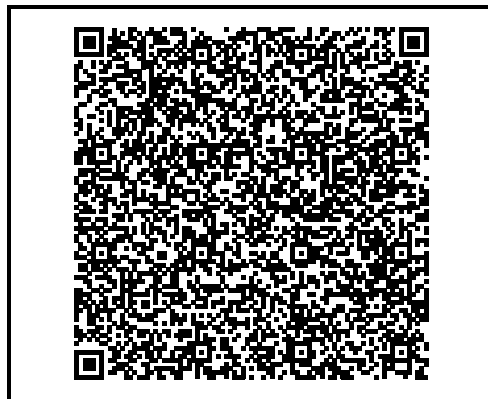
### Reference Standard(s)

Serial Number	Lot	Expiration	Type	Balance	Component	Concentration	Uncertainty(%)	NIST Reference
CC734580	CC734580	07/26/2024	PS	N2	C2H4	1005 PPM	2	4034426

### Analytical Instrumentation

Component	Principle	Make	Model	Serial	MPC Date
C2H4	FTIR	MKS	MKS 2031DJG2EKVS13T	017146467	

### SMART-CERT



This is to certify the gases referenced have been calibrated/tested, and verified to meet the defined specifications. This calibration/test was performed using Gases or Scales that are traceable through National Institute of Standards and Technology (NIST) to the International System of Units (SI). The basis of compliance stated is a comparison of the measurement parameters to the specified or required calibration/testing process. The expanded uncertainties use a coverage factor of  $k=2$  to approximate the 95% confidence level of the measurement, unless otherwise noted. This calibration certificate applies only to the item described and shall not be reproduced other than in full, without written approval from Red Ball Technical Gas Services. If not included, the uncertainty of calibrations are available upon request and were taken into account when determining pass or fail.

*Aaron Varelas*

Aaron Varelas  
Analytical Chemist

Assay Laboratory: Red Ball TGS

Version 02-G, Revised on 2017-07-02  
BASFWHC-Freeport-001916

**SPECGAS, INC.**

SPECGAS, Inc.  
86 Vincent Circle  
Warminster, PA. 18974  
Tel. 215 443 2600  
Fax. 215 443 2665  
WWW.SPECGASINC.COM

# CERTIFICATE



## ANALYTICAL REPORT-PRODUCT CERTIFICATION

SOLD TO: Red Ball Oxygen  
PO Box 7316  
Shreveport, LA. 71137-7316

SHIP TO: Houston Store  
6200 South Loop East  
Houston, TX 77087

DATE: 4/16/24  
PO#: 4051003

## CERTIFIED STANDARD MIXTURE

CYLINDER #  
CC731714

Component		Nominal	Actual
SULFUR HEXAFLUORIDE	SF6	10.0 ppm	10.1 ppm
HYDROGEN CYANIDE	HCN	100 ppm	102 ppm
NITROGEN	N2	Balance	Balance

SF6:

Blend Tolerance: +/- 10 %

Analytical Tolerance: +/- 5 %

HCN:

Blend Tolerance: +/- 5 %

Analytical Tolerance: +/- 2 %

N.I.S.T.: Mixture was blended on a high resolution Scale (Sartorius Combiics 1, Serial # 29503041) Traceable to N.I.S.T. through test # 221140

4kg wt. (Serial #85424) Standards traceable to N.I.S.T. through weight & measures test # 2267372

PRESSURE: 2000 psia

VALVE: CGA 350 s/s

CYL. SIZE: 150A COC

ANALYSIS DATE: 4/16/24

EXPIRATION DATE: 4/16/25

UN 1956, Compressed Gas, N.O.S.

(Hydrogen Cyanide, Nitrogen) 2.2

Emergency Phone #: 1 800 535 5053



### Warning

Contains gas under pressure

May explode if heated

May displace oxygen and cause rapid suffocation

ANALYST

DATE

4/16/24

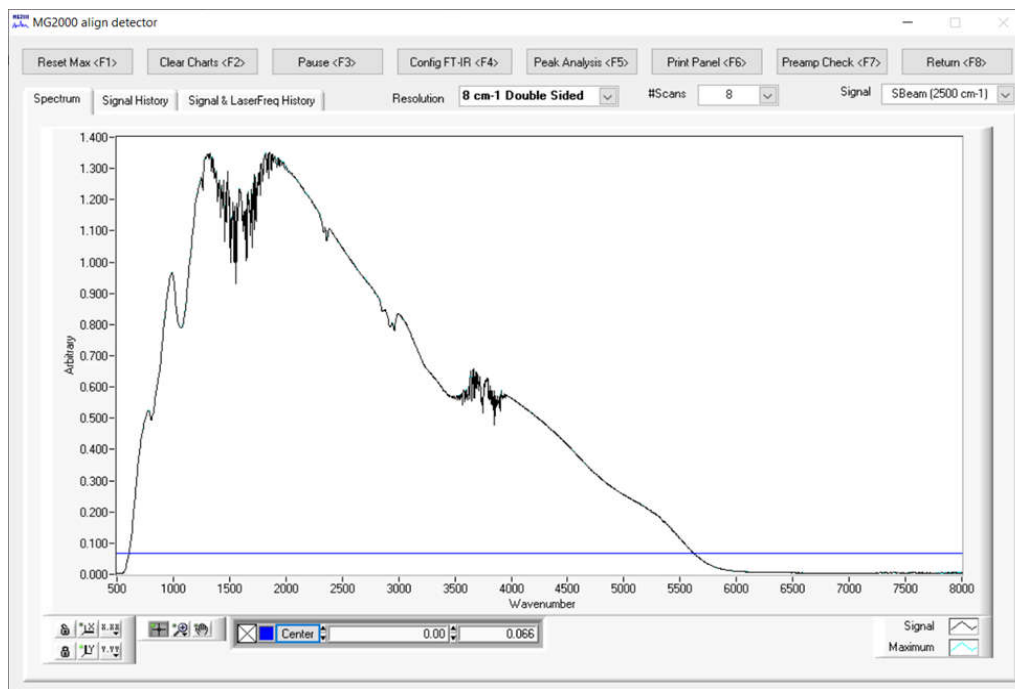
Location	BASF Corporation - Freeport, TX
Project No.	AST-2024-2250
Instrument	MKS 3 (Serial #016589333)

Summary of Spikes

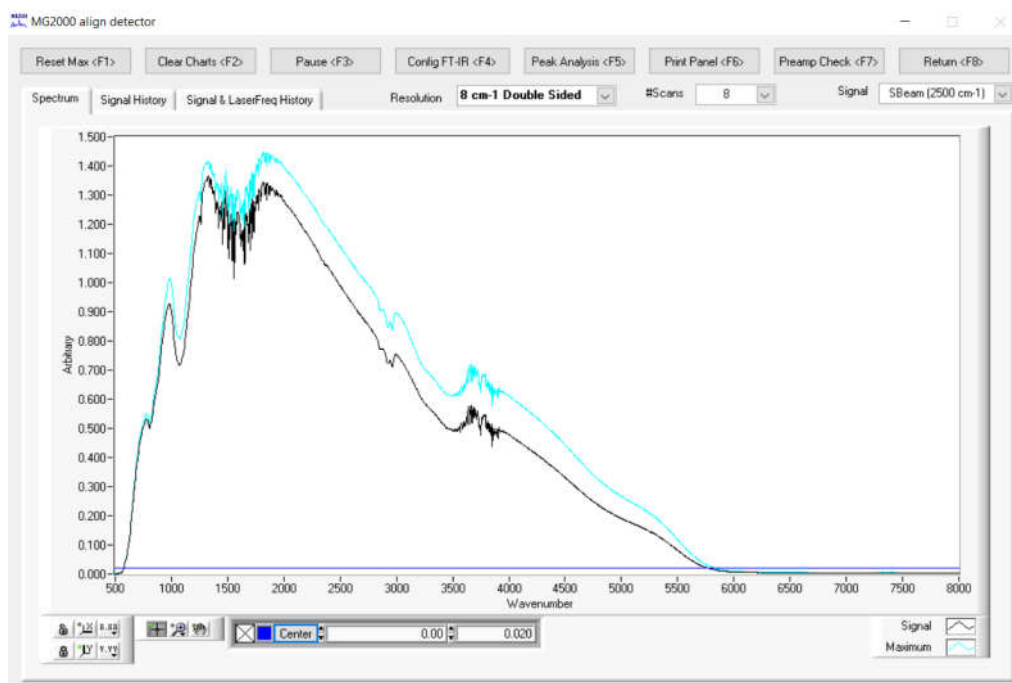
Source	Incinerator IN-701 EPN 4-1-1	Incinerator IN-701 EPN 4-1-1
Date	5/14/24	5/20/24
Time	16:31	10:03
Analyte	Hydrogen Cyanide	Hydrogen Cyanide
Direct	88.20	87.47
Native	1.23	0.53
Spiked	4.86	5.37
Dilution	6.1%	6.2%
Recovery	75%	91%
Result	PASS	PASS



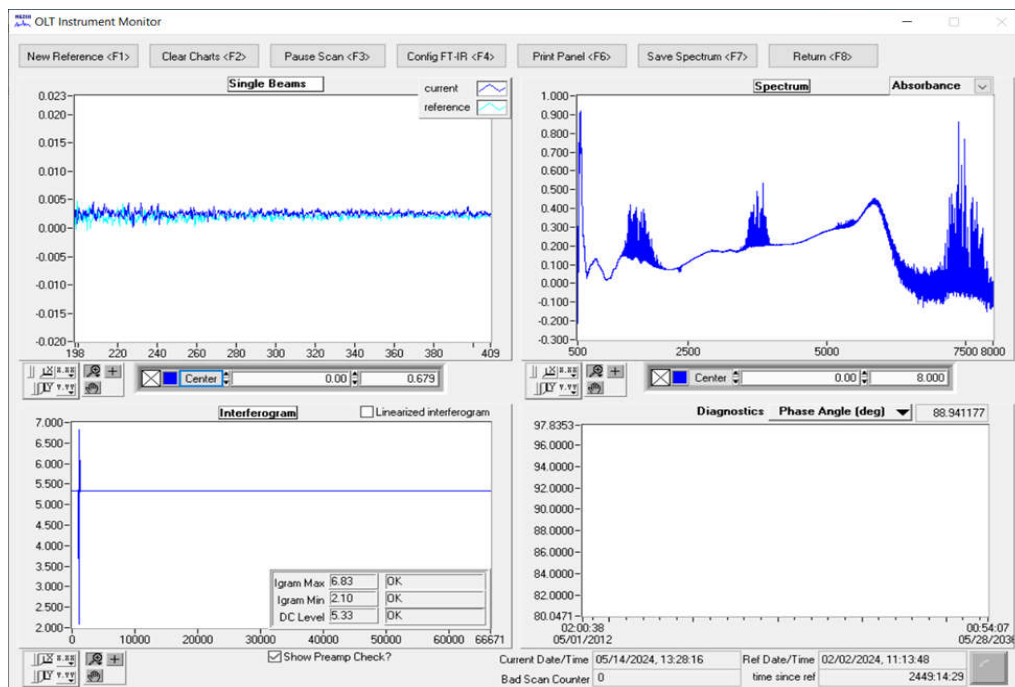
Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Health Check Parameter	Single Beam (Pre-Test)
Instrument ID	MKS 3 (Serial #016589333)
Date	5/14/2024



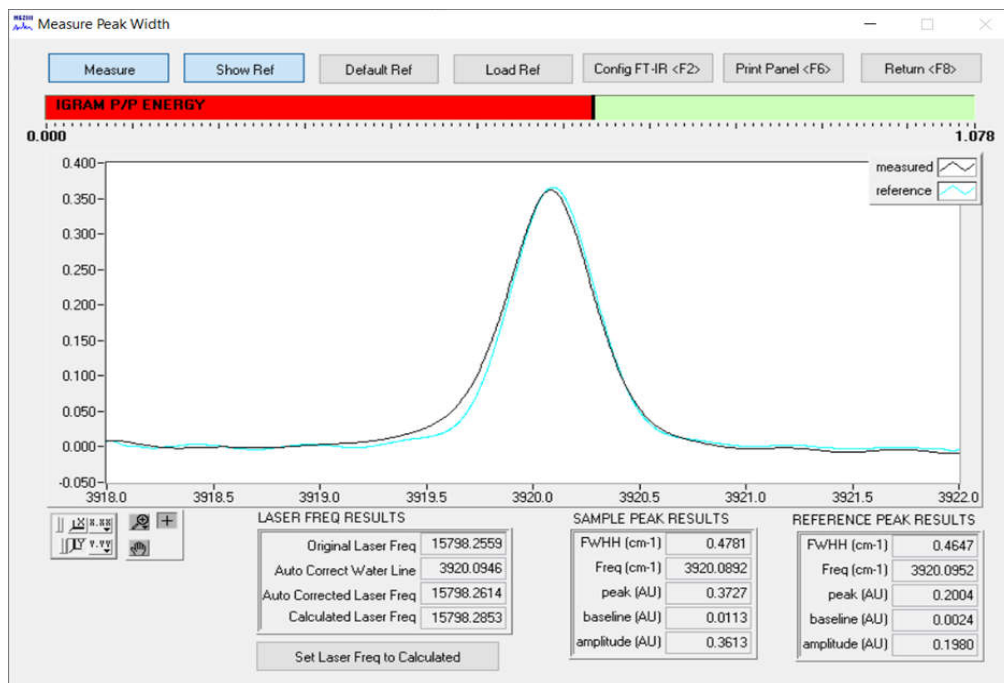
Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Health Check Parameter	Single Beam (Post-Test)
Instrument ID	MKS 3 (Serial #016589333)
Date	5/20/2024



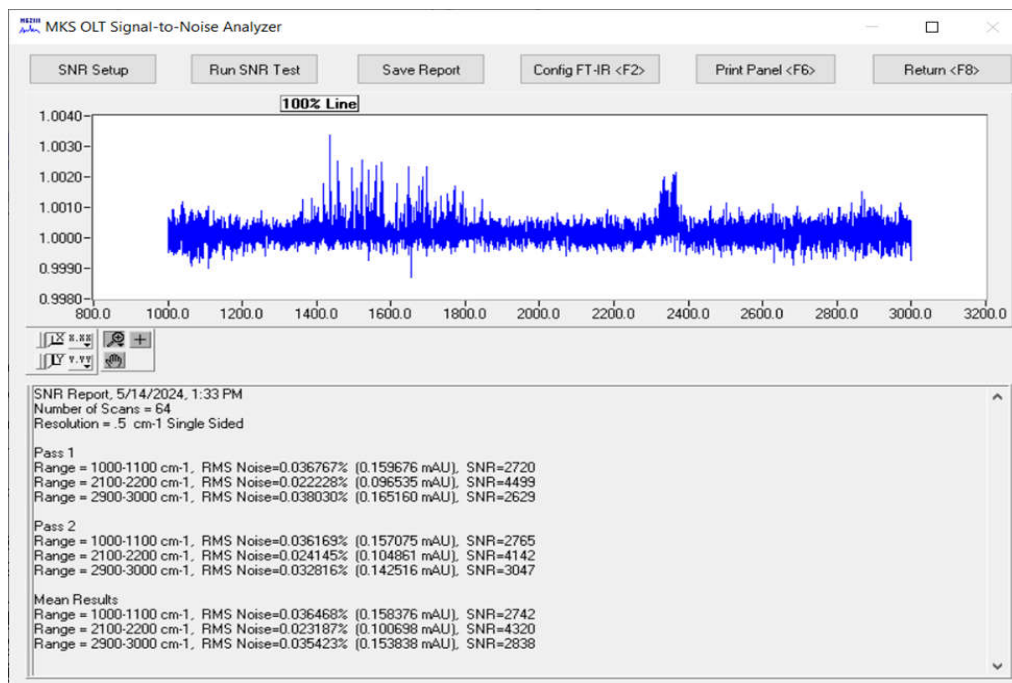
Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Health Check Parameter	Detector Linearity
Instrument ID	MKS 3 (Serial #016589333)
Date	5/14/2024



Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Health Check Parameter	Peak Analysis
Instrument ID	MKS 3 (Serial #016589333)
Date	5/14/2024



Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Health Check Parameter	Signal to Noise Ratio
Instrument ID	MKS 3 (Serial #016589333)
Date	5/14/2024





Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Health Check Parameter	Analysis Validation Utility
Instrument ID	MKS 3 (Serial #016589333)
Date	5/14/2024

#### Analysis Validation Report

Sample Filename: D:\Documents\2024\24-2550 BAF Freeport\AST-2024-2250 BASF\_000150.LAB

Filename for noise: D:\Documents\2024\24-2550 BAF Freeport\AST-2024-2250 BASF\_000010.LAB

Interferences Filenames: C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #1.LAB

C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #2.LAB

C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #3.LAB

C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #4.LAB

C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #5.LAB

C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #6.LAB

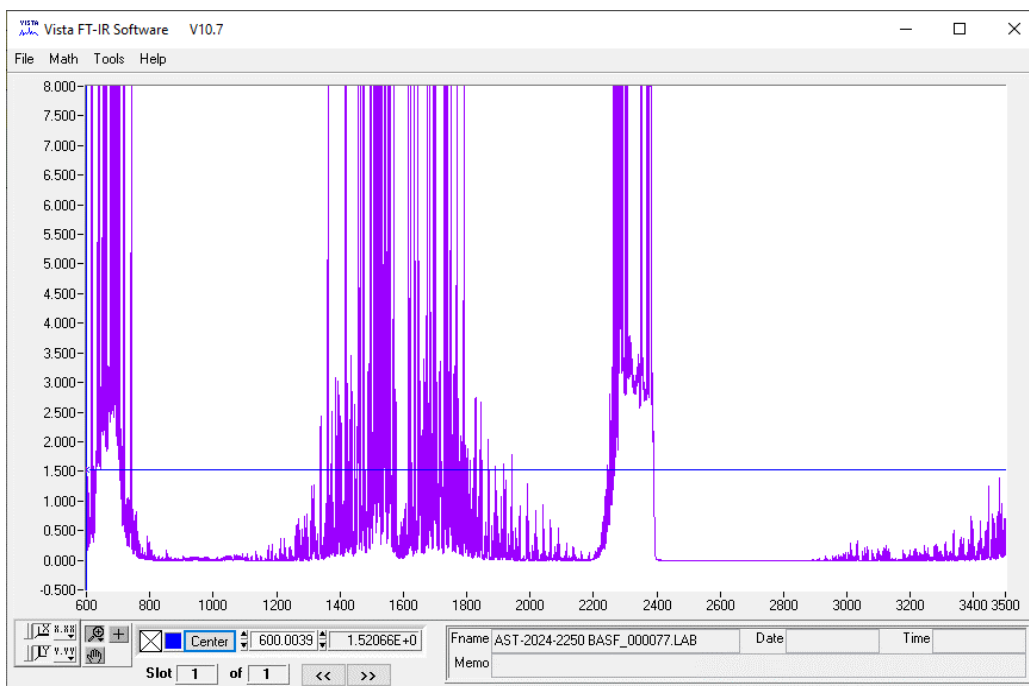
C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #7.LAB

C:\OLT\Analysis Validation Utility\Support spectra\1min 191C LN2\Interferents H2O 20pct CO2 20pct 1min #8.LAB

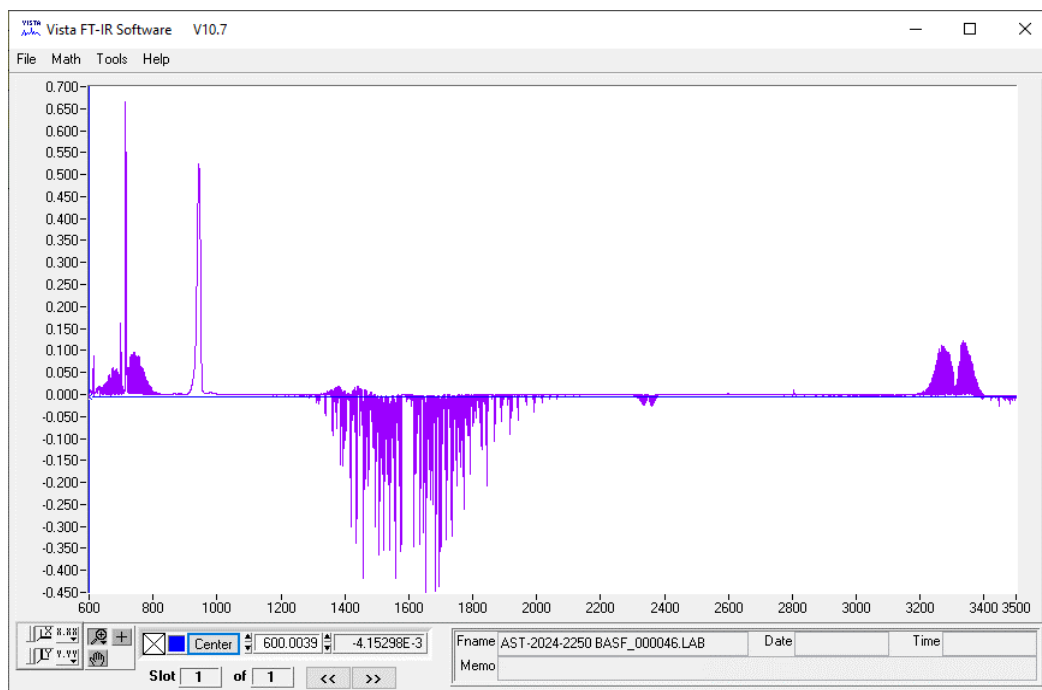
Recipe path: C:\OLT\RECIPES\BASF ICR HCN.MGRCP

Gas calibration Name	Conc	MDC3	MDC2	MDC1	MAU	FMU*R	OCU	~ DL
NO (350,3000) 191C	18.5	4.13	0.15	0.26	0.36	5.63	5.63	2.28
NO2 (150) 191C (1OF2)	-0.07	0.35	0.21	0.03	0.03	0.37	0.37	0.41
NO2 (2000) 191C (2OF2)	-5.03	8.53	0.69	1.11	1.41	10.86	10.86	4.18
N2O (100,200,300) 191C	0.12	0.37	0.05	0.04	0.05	0.43	0.43	0.06
NH3 (300) 191C (1OF2)	1.39	0.97	0.04	0.16	0.27	1.64	1.64	0.62
NH3 (3000) 191C (2OF2)	1.53	12.62	0.52	1.81	3.42	23.81	23.81	2.86
H2O% (20) 191C	16.52	0.1	-	0.01	0.02	0.18	0.18	-
CO2% (20) 191C	6.06	0.17	-	0.01	0.02	0.23	0.23	-
CO (500) 191C (1OF2)	4.54	1.67	0.1	0.16	0.34	3.6	3.6	0.44
CO% (1) 191C (2OF2)	0	0	0	0	0	0	0	0
CH4 (3000) 191C	-1.16	7.92	0.68	1.77	2.92	13.05	13.05	1.82
ETHANE (500) 191C	0.59	2.02	0.15	0.25	0.27	2.25	2.25	0.4
ETHYLENE (100,3000) 191C	0.42	1.34	0.13	0.19	0.34	2.34	2.34	0.71
ACETYLENE (1000) 191C	0.66	4.96	0.26	0.58	0.78	6.65	6.65	0.29
PROPANE (200) 191C	-0.89	1	0.28	0.14	0.15	1.08	1.08	0.72
PROPYLENE (200,1000) 191	-0.17	3.16	0.22	0.54	0.64	3.7	3.7	1.63
BUTANE (200) 191C	2.72	0.89	0.27	0.12	0.15	1.05	1.05	0.3
FORMALDEHYDE (70) 191C	0.35	0.99	0.09	0.2	0.23	1.12	1.12	0.24
ACETALDEHYDE (500) 191C	-0.32	4.3	0.14	0.58	0.75	5.54	5.54	1.58
FORMIC ACID (10) 191C	0.72	0.53	0.02	0.07	0.09	0.63	0.63	0.68
MEOH (10) 191C	0.07	0.47	0.27	0.19	0.22	0.55	0.55	0.57
SF6 (10) 191C	0	0.01	0.01	0	0	0.01	0.01	0.09
HCN (100) 191C	1.36	3.75	0.13	0.47	0.8	6.42	6.42	0.47

Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Spectra (CTS)	AST-2024-2250 BASF_000014.LAB
Date	5/14/2024
Time	2:00:35 PM

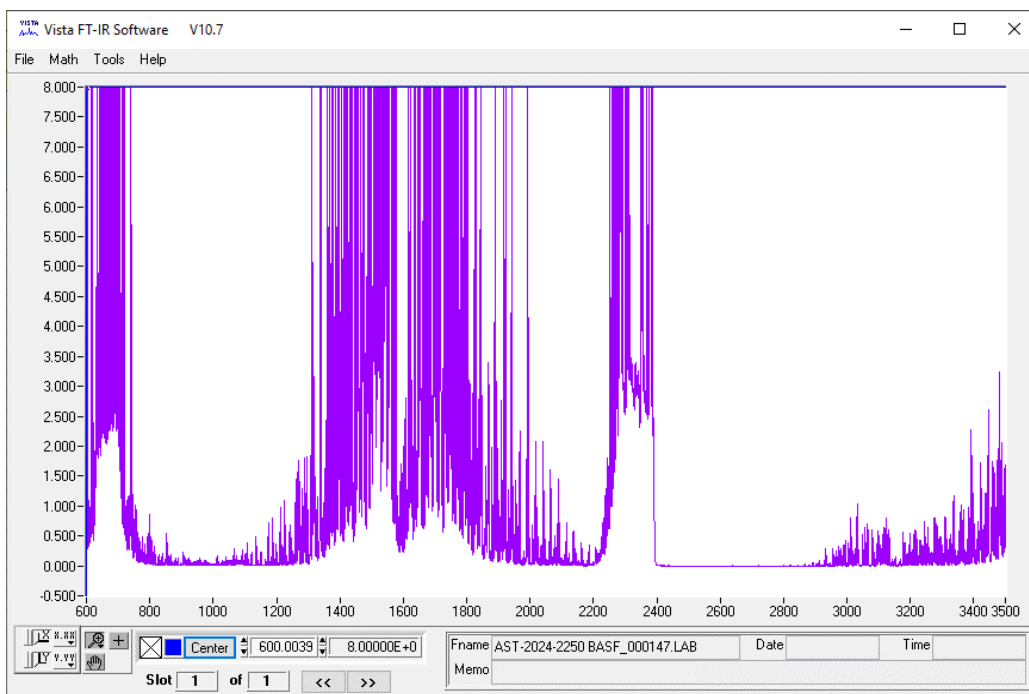


Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Spectra (Analyte Direct)	AST-2024-2250 BASF_000046.LAB
Date	5/14/2024
Time	2:34:52 PM

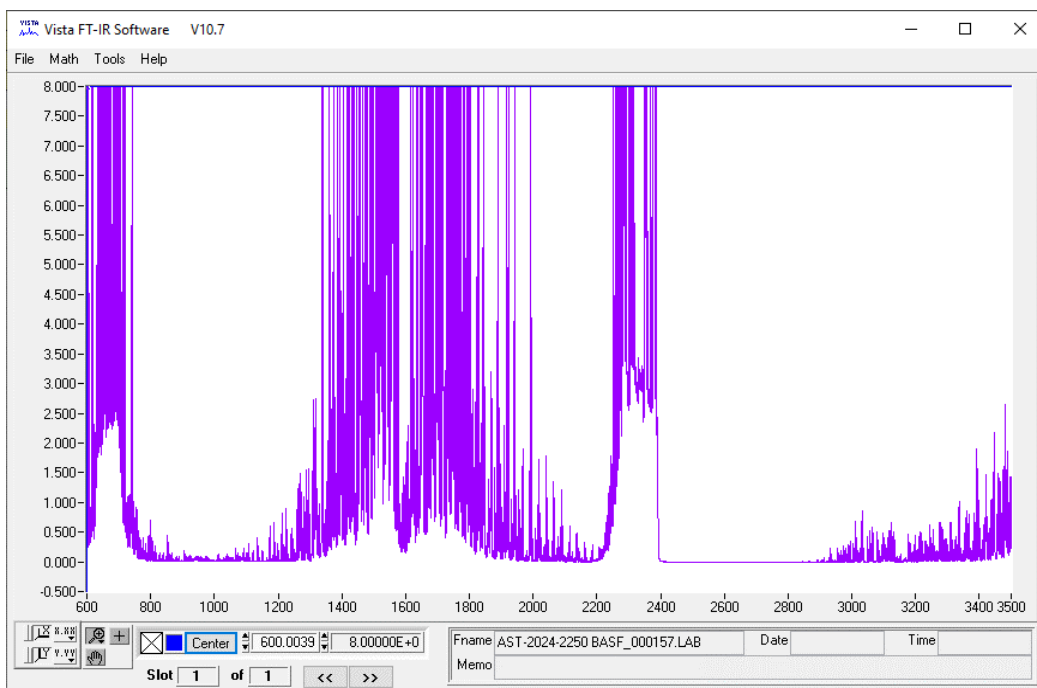




Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Spectra (Native)	AST-2024-2250 BASF_000147.LAB
Date	5/14/2024
Time	4:20:42 PM



Location	BASF Corporation - Freeport, TX
Source	Incinerator IN-701 EPN 4-1-1
Project No.	AST-2024-2250
Spectra (Spike)	AST-2024-2250 BASF_000157.LAB
Date	5/14/2024
Time	4:31:10 PM



## Appendix E

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 12:42	0.01	0.01	0.10	
5/14/24 12:43	18.49	0.17	70.31	
5/14/24 12:44	22.59	0.16	94.41	
5/14/24 12:45	22.59	0.17	95.06	
5/14/24 12:46	22.58	0.17	95.85	
5/14/24 12:47	22.58	0.17	96.96	
5/14/24 12:48	22.59	0.16	99.91	
5/14/24 12:49	22.59	0.16	102.60	
5/14/24 12:50	22.59	0.17	105.31	
5/14/24 12:51	22.59	0.17	105.68	
5/14/24 12:52	22.58	0.17	106.02	
5/14/24 12:53	22.59	0.17	106.26	
5/14/24 12:54	22.59	0.17	106.06	
5/14/24 12:55	22.58	0.17	104.73	
5/14/24 12:56	22.59	0.17	30.66	
5/14/24 12:57	22.58	0.17	0.04	
5/14/24 12:58	22.59	0.17	6.31	
5/14/24 12:59	22.59	0.17	0.03	
5/14/24 13:00	22.58	0.18	0.05	
5/14/24 13:01	22.58	0.18	99.15	
5/14/24 13:02	22.58	0.18	113.76	
5/14/24 13:03	22.57	0.19	107.32	
5/14/24 13:04	22.56	0.19	107.89	
5/14/24 13:05	22.56	0.20	107.77	
5/14/24 13:06	22.55	0.21	103.23	
5/14/24 13:07	22.54	0.22	84.31	
5/14/24 13:08	22.51	0.22	104.46	
5/14/24 13:09	22.51	0.23	105.12	
5/14/24 13:10	22.53	0.22	105.12	
5/14/24 13:11	22.52	0.23	107.77	
5/14/24 13:12	22.51	0.24	112.23	
5/14/24 13:13	22.50	0.24	111.64	
5/14/24 13:14	22.52	0.24	105.63	
5/14/24 13:15	22.52	0.24	105.55	
5/14/24 13:16	22.53	0.23	105.99	
5/14/24 13:17	22.55	0.22	105.91	
5/14/24 13:18	22.53	0.23	106.36	
5/14/24 13:19	22.52	0.23	106.20	
5/14/24 13:20	22.51	0.24	106.07	
5/14/24 13:21	22.51	0.25	106.24	
5/14/24 13:22	3.13	0.10	102.29	
5/14/24 13:23	3.01	3.56	104.69	
5/14/24 13:24	24.91	21.78	114.53	
5/14/24 13:25	23.01	22.78	114.75	
5/14/24 13:26	13.31	13.20	110.84	
5/14/24 13:27	13.17	13.37	109.96	
5/14/24 13:28	20.62	20.70	115.03	
5/14/24 13:29	18.79	18.89	114.29	
5/14/24 13:30	18.41	18.62	114.41	
5/14/24 13:31	13.08	13.31	111.99	
5/14/24 13:32	11.53	11.87	112.27	
5/14/24 13:33	6.33	6.56	108.68	
5/14/24 13:34	4.34	4.63	107.21	
5/14/24 13:35	2.24	2.51	107.54	
5/14/24 13:36	4.71	4.98	106.62	
5/14/24 13:37	14.56	14.84	112.47	
5/14/24 13:38	20.59	20.73	114.90	
5/14/24 13:39	18.72	18.85	115.34	
5/14/24 13:40	18.42	18.67	115.76	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 13:41	12.07	12.35	111.82	
5/14/24 13:42	9.83	10.10	111.18	
5/14/24 13:43	4.65	5.01	107.52	
5/14/24 13:44	3.39	3.68	107.57	
5/14/24 13:45	2.27	2.56	106.71	
5/14/24 13:46	7.02	7.34	108.78	
5/14/24 13:47	11.71	12.09	112.90	
5/14/24 13:48	20.61	20.76	115.32	
5/14/24 13:49	20.58	20.74	116.55	
5/14/24 13:50	18.73	18.89	115.11	
5/14/24 13:51	18.45	18.72	115.66	
5/14/24 13:52	12.83	13.11	112.08	
5/14/24 13:53	11.51	11.90	112.10	
5/14/24 13:54	5.73	6.00	108.51	
5/14/24 13:55	4.62	4.98	107.26	
5/14/24 13:56	3.08	3.37	105.50	
5/14/24 13:57	2.27	2.56	105.25	
5/14/24 13:58	9.74	10.08	111.70	
5/14/24 13:59	10.95	11.33	111.81	
5/14/24 14:00	11.00	11.14	112.44	
5/14/24 14:01	21.74	12.03	113.04	
5/14/24 14:02	22.97	22.96	115.33	
5/14/24 14:03	22.98	22.97	116.04	
5/14/24 14:04	22.99	22.97	115.86	
5/14/24 14:05	22.98	22.93	115.93	
5/14/24 14:06	22.97	22.74	115.54	
5/14/24 14:07	15.88	15.79	113.50	
5/14/24 14:08	11.00	11.35	109.82	
5/14/24 14:09	10.98	11.34	111.16	
5/14/24 14:10	10.97	11.34	111.57	
5/14/24 14:11	10.96	11.15	112.28	
5/14/24 14:12	10.87	10.76	112.03	
5/14/24 14:13	0.07	0.07	103.84	
5/14/24 14:14	0.03	0.02	103.81	
5/14/24 14:15	6.01	5.36	104.52	
5/14/24 14:16	11.01	10.86	110.95	
5/14/24 14:17	13.02	8.60	112.06	
5/14/24 14:18	20.71	0.16	108.18	
5/14/24 14:19	20.67	0.16	108.47	
5/14/24 14:20	20.67	0.16	107.51	
5/14/24 14:21	20.67	0.16	109.44	
5/14/24 14:22	20.61	0.11	107.64	
5/14/24 14:23	20.82	0.07	109.55	
5/14/24 14:24	20.82	0.07	107.45	
5/14/24 14:25	20.82	0.08	109.35	
5/14/24 14:26	20.82	0.08	107.69	
5/14/24 14:27	20.82	0.08	107.43	
5/14/24 14:28	20.82	0.07	108.04	
5/14/24 14:29	20.82	0.07	107.98	
5/14/24 14:30	20.82	0.07	109.47	
5/14/24 14:31	20.82	0.07	107.66	
5/14/24 14:32	20.83	0.06	109.75	
5/14/24 14:33	20.83	0.06	107.37	
5/14/24 14:34	20.83	0.06	108.14	
5/14/24 14:35	20.83	0.06	110.13	
5/14/24 14:36	20.83	0.06	107.58	
5/14/24 14:37	20.83	0.06	110.89	
5/14/24 14:38	20.83	0.07	106.97	
5/14/24 14:39	20.83	0.07	108.85	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 14:40	20.83	0.07	106.49	
5/14/24 14:41	20.84	0.07	106.49	
5/14/24 14:42	20.83	0.07	109.57	
5/14/24 14:43	20.83	0.07	106.62	
5/14/24 14:44	20.84	0.07	106.74	
5/14/24 14:45	20.84	0.07	107.58	
5/14/24 14:46	20.83	0.07	109.22	
5/14/24 14:47	20.84	0.07	108.66	
5/14/24 14:48	20.84	0.07	108.16	
5/14/24 14:49	20.84	0.08	107.61	
5/14/24 14:50	20.84	0.08	107.14	
5/14/24 14:51	20.83	0.08	106.38	
5/14/24 14:52	20.83	0.08	107.10	
5/14/24 14:53	20.83	0.08	107.62	
5/14/24 14:54	20.84	0.08	106.71	
5/14/24 14:55	20.84	0.08	107.09	
5/14/24 14:56	20.84	0.08	106.16	
5/14/24 14:57	20.84	0.08	105.44	
5/14/24 14:58	20.84	0.08	110.31	
5/14/24 14:59	20.84	0.08	110.03	
5/14/24 15:00	20.84	0.08	99.43	
5/14/24 15:01	5.88	5.88	107.32	
5/14/24 15:02	1.56	7.46	110.21	
5/14/24 15:03	1.58	7.46	112.92	
5/14/24 15:04	1.47	7.57	112.39	
5/14/24 15:05	1.49	7.65	115.57	
5/14/24 15:06	2.01	7.49	117.61	
5/14/24 15:07	1.77	7.62	111.13	
5/14/24 15:08	1.63	7.72	34.55	
5/14/24 15:09	1.62	7.73	81.57	
5/14/24 15:10	1.67	7.72	4.71	
5/14/24 15:11	1.68	7.71	18.69	
5/14/24 15:12	1.69	7.70	41.30	
5/14/24 15:13	1.66	7.71	0.00	
5/14/24 15:14	1.68	7.68	0.27	
5/14/24 15:15	1.72	7.67	0.38	
5/14/24 15:16	1.73	7.66	0.35	
5/14/24 15:17	1.79	7.62	0.47	
5/14/24 15:18	1.89	7.58	0.30	
5/14/24 15:19	1.89	7.57	0.48	
5/14/24 15:20	1.89	7.58	0.38	
5/14/24 15:21	1.24	4.52	0.27	
5/14/24 15:22	0.14	0.09	0.00	
5/14/24 15:23	0.03	0.03	0.04	
5/14/24 15:24	0.31	1.28	0.15	
5/14/24 15:25	8.88	9.07	0.00	
5/14/24 15:26	10.91	10.81	-50.15	
5/14/24 15:27	10.91	10.83	158.16	
5/14/24 15:28	10.91	10.83	211.30	
5/14/24 15:29	10.91	10.84	210.89	
5/14/24 15:30	10.91	10.84	210.62	
5/14/24 15:31	10.91	10.84	209.71	
5/14/24 15:32	10.91	10.85	185.99	
5/14/24 15:33	10.91	10.84	19.92	
5/14/24 15:34	10.91	10.84	23.81	
5/14/24 15:35	10.91	10.84	1.33	
5/14/24 15:36	10.91	10.83	0.79	
5/14/24 15:37	10.91	10.82	0.62	
5/14/24 15:38	10.91	10.81	0.45	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 15:39	10.91	10.81	1.64	
5/14/24 15:40	10.91	10.81	0.27	
5/14/24 15:41	10.91	10.81	0.40	
5/14/24 15:42	10.91	10.81	0.94	
5/14/24 15:43	10.91	10.81	-0.63	
5/14/24 15:44	10.91	10.81	4.23	
5/14/24 15:45	10.91	10.81	-0.86	
5/14/24 15:46	10.91	10.81	-0.89	
5/14/24 15:47	5.53	8.83	-0.88	
5/14/24 15:48	1.82	7.53	-0.38	
5/14/24 15:49	1.85	7.50	-0.95	
5/14/24 15:50	1.82	7.50	-0.62	
5/14/24 15:51	1.81	7.52	-0.98	
5/14/24 15:52	1.84	7.51	-1.09	
5/14/24 15:53	1.83	7.51	-0.79	
5/14/24 15:54	1.81	7.52	-0.99	
5/14/24 15:55	1.86	7.49	-0.90	
5/14/24 15:56	1.81	7.51	-1.17	
5/14/24 15:57	1.78	7.52	-1.12	
5/14/24 15:58	1.76	7.53	-1.41	
5/14/24 15:59	1.76	7.53	-1.23	
5/14/24 16:00	1.75	7.54	-0.45	
5/14/24 16:01	1.77	7.53	-0.90	
5/14/24 16:02	1.83	7.51	-0.52	
5/14/24 16:03	1.82	7.52	-0.96	
5/14/24 16:04	1.76	7.53	-0.65	
5/14/24 16:05	1.78	7.53	-0.78	
5/14/24 16:06	1.80	7.52	-0.48	
5/14/24 16:07	1.78	7.52	-0.78	
5/14/24 16:08	1.78	7.53	-0.76	
5/14/24 16:09	1.84	7.51	-0.50	
5/14/24 16:10	1.83	7.51	-0.88	
5/14/24 16:11	1.83	7.50	-0.44	
5/14/24 16:12	1.82	7.52	-0.93	
5/14/24 16:13	1.82	7.53	-0.79	
5/14/24 16:14	1.78	7.55	-1.08	
5/14/24 16:15	1.78	7.55	-0.68	
5/14/24 16:16	1.79	7.55	-1.10	
5/14/24 16:17	1.82	7.54	-1.11	
5/14/24 16:18	1.82	7.54	-0.77	
5/14/24 16:19	1.82	7.55	-1.05	
5/14/24 16:20	1.80	7.56	-0.84	
5/14/24 16:21	1.75	7.56	-1.12	
5/14/24 16:22	1.73	7.60	-0.84	
5/14/24 16:23	1.76	7.57	-1.04	
5/14/24 16:24	1.79	7.57	-1.00	
5/14/24 16:25	1.87	7.51	-0.79	
5/14/24 16:26	1.87	7.51	-1.09	
5/14/24 16:27	1.82	7.54	-0.84	
5/14/24 16:28	1.85	7.52	-1.00	
5/14/24 16:29	1.78	7.55	-0.39	
5/14/24 16:30	1.80	7.54	-0.91	
5/14/24 16:31	1.82	7.53	-0.63	
5/14/24 16:32	1.81	7.54	-0.88	
5/14/24 16:33	1.82	7.53	-0.94	
5/14/24 16:34	1.82	7.53	-0.53	
5/14/24 16:35	1.80	7.54	-0.72	
5/14/24 16:36	1.77	7.56	-0.62	
5/14/24 16:37	1.77	7.55	-0.77	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 16:38	1.85	7.51	-0.29	
5/14/24 16:39	1.97	7.47	-0.71	
5/14/24 16:40	1.91	7.49	-0.45	
5/14/24 16:41	1.88	7.50	-0.52	
5/14/24 16:42	1.89	7.51	-0.58	
5/14/24 16:43	1.86	7.53	-0.04	
5/14/24 16:44	1.89	7.52	-0.45	
5/14/24 16:45	1.88	7.53	-0.73	
5/14/24 16:46	1.88	7.53	-1.57	
5/14/24 16:47	1.88	7.51	-1.46	
5/14/24 16:48	1.88	7.52	45.41	
5/14/24 16:49	1.87	7.52	11.62	
5/14/24 16:50	1.82	7.54	11.69	
5/14/24 16:51	1.82	7.54	12.92	
5/14/24 16:52	1.80	7.54	12.20	
5/14/24 16:53	1.82	7.53	11.53	
5/14/24 16:54	1.86	7.51	12.04	
5/14/24 16:55	1.87	7.49	97.21	
5/14/24 16:56	1.87	7.49	43.24	
5/14/24 16:57	1.88	7.49	5.08	
5/14/24 16:58	1.87	7.48	6.05	
5/14/24 16:59	1.86	7.46	6.43	
5/14/24 17:00	1.82	7.48	6.45	
5/14/24 17:01	1.84	7.47	6.82	
5/14/24 17:02	1.88	7.45	6.71	
5/14/24 17:03	1.89	7.45	7.02	
5/14/24 17:04	1.86	7.46	6.96	
5/14/24 17:05	1.83	7.48	7.02	
5/14/24 17:06	1.84	7.47	7.28	
5/14/24 17:07	1.85	7.46	7.24	
5/14/24 17:08	1.84	7.46	7.43	
5/14/24 17:09	1.82	7.47	7.47	
5/14/24 17:10	1.84	7.46	7.70	
5/14/24 17:11	1.84	7.46	7.62	
5/14/24 17:12	1.83	7.47	7.63	
5/14/24 17:13	1.86	7.45	7.80	
5/14/24 17:14	1.84	7.47	7.77	
5/14/24 17:15	1.83	7.46	8.00	
5/14/24 17:16	1.84	7.46	7.95	
5/14/24 17:17	1.85	7.46	8.21	
5/14/24 17:18	1.82	7.48	8.16	
5/14/24 17:19	1.84	7.47	8.32	
5/14/24 17:20	1.86	7.47	8.21	
5/14/24 17:21	1.81	7.48	8.25	
5/14/24 17:22	1.80	7.48	8.43	
5/14/24 17:23	1.81	7.48	8.34	
5/14/24 17:24	1.79	7.49	8.50	
5/14/24 17:25	1.83	7.48	8.39	
5/14/24 17:26	1.85	7.47	8.64	
5/14/24 17:27	1.81	7.48	8.50	
5/14/24 17:28	1.88	7.45	8.63	
5/14/24 17:29	1.88	7.44	8.65	
5/14/24 17:30	1.88	7.45	8.66	
5/14/24 17:31	1.89	7.45	8.72	
5/14/24 17:32	1.91	7.43	7.91	
5/14/24 17:33	1.90	7.44	8.22	
5/14/24 17:34	1.88	7.45	8.14	
5/14/24 17:35	1.86	7.47	8.16	
5/14/24 17:36	1.91	7.44	8.18	



BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 17:37	1.86	7.46	8.32	
5/14/24 17:38	1.82	7.47	8.50	
5/14/24 17:39	1.82	7.48	8.56	
5/14/24 17:40	1.83	7.47	8.71	
5/14/24 17:41	1.83	7.47	8.65	
5/14/24 17:42	1.86	7.46	8.71	
5/14/24 17:43	1.85	7.47	8.63	
5/14/24 17:44	1.84	7.47	8.92	
5/14/24 17:45	1.82	7.48	8.79	
5/14/24 17:46	1.82	7.48	8.73	
5/14/24 17:47	1.88	7.46	8.89	
5/14/24 17:48	1.88	7.45	8.87	
5/14/24 17:49	1.87	7.46	9.01	
5/14/24 17:50	1.89	7.46	8.87	
5/14/24 17:51	1.88	7.45	9.05	
5/14/24 17:52	1.83	7.47	8.90	
5/14/24 17:53	1.80	7.49	8.95	
5/14/24 17:54	1.79	7.49	9.15	
5/14/24 17:55	1.80	7.50	9.05	
5/14/24 17:56	1.86	7.46	9.17	
5/14/24 17:57	1.80	7.49	9.16	
5/14/24 17:58	1.80	7.49	9.32	
5/14/24 17:59	1.82	7.48	9.20	
5/14/24 18:00	1.86	7.46	9.33	
5/14/24 18:01	1.81	7.49	9.15	
5/14/24 18:02	1.81	7.49	9.25	
5/14/24 18:03	1.81	7.49	9.35	
5/14/24 18:04	1.85	7.46	9.29	
5/14/24 18:05	1.80	7.49	9.43	
5/14/24 18:06	1.77	7.51	9.37	
5/14/24 18:07	1.80	7.49	9.57	
5/14/24 18:08	1.81	7.49	9.49	
5/14/24 18:09	1.81	7.49	9.50	
5/14/24 18:10	1.79	7.49	9.56	
5/14/24 18:11	1.80	7.50	9.49	
5/14/24 18:12	1.81	7.50	9.65	
5/14/24 18:13	1.82	7.48	9.61	
5/14/24 18:14	1.82	7.48	9.68	
5/14/24 18:15	1.79	7.50	9.65	
5/14/24 18:16	1.80	7.50	9.67	
5/14/24 18:17	1.80	7.50	9.65	
5/14/24 18:18	1.81	7.49	9.66	
5/14/24 18:19	1.80	7.49	9.78	
5/14/24 18:20	1.82	7.48	9.60	
5/14/24 18:21	1.83	7.48	9.70	
5/14/24 18:22	1.80	7.50	9.66	
5/14/24 18:23	1.82	7.50	9.75	
5/14/24 18:24	1.86	7.48	9.76	
5/14/24 18:25	1.84	7.47	9.70	
5/14/24 18:26	1.83	7.49	9.79	
5/14/24 18:27	1.81	7.49	9.71	
5/14/24 18:28	1.79	7.51	9.83	
5/14/24 18:29	1.81	7.49	9.71	
5/14/24 18:30	1.83	7.49	10.01	
5/14/24 18:31	1.82	7.49	9.87	
5/14/24 18:32	1.80	7.50	9.91	
5/14/24 18:33	1.80	7.49	10.03	
5/14/24 18:34	1.79	7.50	10.00	
5/14/24 18:35	1.82	7.47	10.11	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 18:36	1.81	7.48	10.07	
5/14/24 18:37	1.86	7.46	10.28	
5/14/24 18:38	1.86	7.46	10.36	
5/14/24 18:39	1.85	7.47	9.89	
5/14/24 18:40	1.82	7.49	7.69	
5/14/24 18:41	1.82	7.49	4.91	
5/14/24 18:42	1.82	7.49	2.18	
5/14/24 18:43	1.80	7.50	0.79	
5/14/24 18:44	1.82	7.49	-0.09	
5/14/24 18:45	1.81	7.50	-0.06	
5/14/24 18:46	1.78	7.51	-0.14	
5/14/24 18:47	1.81	7.49	-0.26	
5/14/24 18:48	1.77	7.51	-0.21	
5/14/24 18:49	1.80	7.50	-0.28	
5/14/24 18:50	1.79	7.50	-0.27	
5/14/24 18:51	1.80	7.50	-0.28	
5/14/24 18:52	1.81	7.49	-0.25	
5/14/24 18:53	1.80	7.49	-0.33	
5/14/24 18:54	1.81	7.49	-0.30	
5/14/24 18:55	1.82	7.47	-0.17	
5/14/24 18:56	1.82	7.48	-0.32	
5/14/24 18:57	1.85	7.46	-0.33	
5/14/24 18:58	1.84	7.47	-0.19	
5/14/24 18:59	1.84	7.48	-0.32	
5/14/24 19:00	1.84	7.46	-0.32	
5/14/24 19:01	1.85	7.47	-0.21	
5/14/24 19:02	1.82	7.49	-0.32	
5/14/24 19:03	1.83	7.48	-0.29	
5/14/24 19:04	1.80	7.50	-0.24	
5/14/24 19:05	1.77	7.52	-0.29	
5/14/24 19:06	1.80	7.49	-0.28	
5/14/24 19:07	1.80	7.49	-0.26	
5/14/24 19:08	1.80	7.49	-0.24	
5/14/24 19:09	1.84	7.48	-0.31	
5/14/24 19:10	1.86	7.46	-0.29	
5/14/24 19:11	1.83	7.49	-0.18	
5/14/24 19:12	1.83	7.48	-0.34	
5/14/24 19:13	1.84	7.48	-0.34	
5/14/24 19:14	1.83	7.47	-0.21	
5/14/24 19:15	1.83	7.48	-0.32	
5/14/24 19:16	1.87	7.46	-0.33	
5/14/24 19:17	1.85	7.47	-0.22	
5/14/24 19:18	1.82	7.48	-0.32	
5/14/24 19:19	1.84	7.47	-0.29	
5/14/24 19:20	1.82	7.48	-0.24	
5/14/24 19:21	1.83	7.47	-0.30	
5/14/24 19:22	1.80	7.50	-0.28	
5/14/24 19:23	1.83	7.48	-0.26	
5/14/24 19:24	1.83	7.48	-0.23	
5/14/24 19:25	1.82	7.48	-0.32	
5/14/24 19:26	1.81	7.49	-0.29	
5/14/24 19:27	1.79	7.49	-0.17	
5/14/24 19:28	1.81	7.48	-0.34	
5/14/24 19:29	1.80	7.48	-0.32	
5/14/24 19:30	1.81	7.48	-0.18	
5/14/24 19:31	1.83	7.47	-0.31	
5/14/24 19:32	1.83	7.48	-0.32	
5/14/24 19:33	1.83	7.48	-0.21	
5/14/24 19:34	1.80	7.49	-0.28	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 19:35	1.80	7.49	-0.28	
5/14/24 19:36	1.80	7.49	-0.24	
5/14/24 19:37	1.84	7.47	-0.29	
5/14/24 19:38	1.81	7.48	-0.28	
5/14/24 19:39	1.81	7.49	-0.27	
5/14/24 19:40	1.83	7.48	-0.23	
5/14/24 19:41	1.80	7.49	-0.32	
5/14/24 19:42	1.84	7.47	-0.28	
5/14/24 19:43	1.84	7.47	-0.17	
5/14/24 19:44	1.82	7.48	-0.34	
5/14/24 19:45	1.83	7.47	-0.32	
5/14/24 19:46	1.85	7.47	-0.18	
5/14/24 19:47	1.84	7.47	-0.29	
5/14/24 19:48	1.82	7.48	-0.30	
5/14/24 19:49	1.80	7.48	-0.20	
5/14/24 19:50	1.79	7.49	-0.28	
5/14/24 19:51	1.82	7.47	-0.27	
5/14/24 19:52	1.81	7.48	-0.23	
5/14/24 19:53	1.82	7.48	-0.27	
5/14/24 19:54	1.81	7.48	-0.26	
5/14/24 19:55	1.84	7.47	-0.24	
5/14/24 19:56	1.83	7.46	-0.23	
5/14/24 19:57	1.79	7.51	-0.31	
5/14/24 19:58	1.89	7.45	-0.26	
5/14/24 19:59	1.90	7.44	-0.16	
5/14/24 20:00	1.91	7.39	-0.34	
5/14/24 20:01	1.77	7.51	-0.31	
5/14/24 20:02	1.81	7.49	-0.18	
5/14/24 20:03	1.81	7.49	-0.28	
5/14/24 20:04	1.83	7.47	-0.31	
5/14/24 20:05	1.82	7.48	-0.21	
5/14/24 20:06	1.82	7.48	-0.27	
5/14/24 20:07	1.82	7.48	-0.28	
5/14/24 20:08	1.80	7.49	-0.26	
5/14/24 20:09	1.82	7.48	-0.29	
5/14/24 20:10	1.83	7.47	-0.29	
5/14/24 20:11	1.81	7.48	-0.27	
5/14/24 20:12	1.81	7.48	-0.26	
5/14/24 20:13	1.85	7.46	-0.32	
5/14/24 20:14	1.85	7.46	-0.30	
5/14/24 20:15	1.88	7.44	-0.18	
5/14/24 20:16	1.85	7.46	-0.36	
5/14/24 20:17	1.92	7.42	-0.33	
5/14/24 20:18	1.87	7.46	-0.19	
5/14/24 20:19	1.83	7.47	-0.31	
5/14/24 20:20	1.83	7.48	-0.31	
5/14/24 20:21	1.85	7.46	-0.22	
5/14/24 20:22	1.84	7.47	-0.28	
5/14/24 20:23	1.84	7.47	-0.28	
5/14/24 20:24	1.85	7.46	-0.27	
5/14/24 20:25	1.83	7.47	-0.27	
5/14/24 20:26	1.84	7.46	-0.29	
5/14/24 20:27	1.85	7.46	-0.27	
5/14/24 20:28	1.86	7.46	-0.24	
5/14/24 20:29	1.87	7.46	-0.32	
5/14/24 20:30	1.87	7.46	-0.29	
5/14/24 20:31	1.88	7.45	-0.18	
5/14/24 20:32	1.90	7.44	-0.36	
5/14/24 20:33	1.90	7.43	-0.31	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 20:34	1.91	7.43	-0.17	
5/14/24 20:35	1.88	7.45	-0.28	
5/14/24 20:36	1.92	7.42	-0.29	
5/14/24 20:37	1.91	7.43	-0.19	
5/14/24 20:38	1.85	7.47	-0.25	
5/14/24 20:39	1.87	7.45	-0.27	
5/14/24 20:40	1.88	7.45	-0.25	
5/14/24 20:41	1.90	7.44	-0.25	
5/14/24 20:42	1.87	7.45	-0.28	
5/14/24 20:43	1.88	7.44	-0.25	
5/14/24 20:44	1.88	7.45	-0.23	
5/14/24 20:45	1.89	7.44	-0.30	
5/14/24 20:46	1.90	7.44	-0.27	
5/14/24 20:47	1.91	7.43	-0.16	
5/14/24 20:48	1.90	7.44	-0.34	
5/14/24 20:49	1.91	7.43	-0.30	
5/14/24 20:50	1.89	7.44	-0.18	
5/14/24 20:51	1.86	7.46	-0.30	
5/14/24 20:52	1.89	7.44	-0.30	
5/14/24 20:53	1.91	7.43	-0.22	
5/14/24 20:54	1.89	7.45	-0.25	
5/14/24 20:55	1.91	7.44	-0.27	
5/14/24 20:56	1.86	7.47	-0.26	
5/14/24 20:57	1.88	7.46	-0.25	
5/14/24 20:58	1.85	7.47	-0.28	
5/14/24 20:59	1.89	7.44	-0.25	
5/14/24 21:00	1.89	7.45	-0.23	
5/14/24 21:01	1.91	7.44	-0.32	
5/14/24 21:02	1.88	7.45	-0.28	
5/14/24 21:03	1.88	7.44	-0.17	
5/14/24 21:04	1.90	7.42	-0.34	
5/14/24 21:05	1.90	7.44	-0.30	
5/14/24 21:06	1.87	7.45	-0.19	
5/14/24 21:07	1.88	7.44	-0.31	
5/14/24 21:08	1.88	7.45	-0.29	
5/14/24 21:09	1.88	7.45	-0.23	
5/14/24 21:10	1.88	7.45	-0.26	
5/14/24 21:11	1.90	7.43	-0.27	
5/14/24 21:12	1.88	7.45	-0.27	
5/14/24 21:13	1.87	7.45	-0.25	
5/14/24 21:14	1.86	7.45	-0.28	
5/14/24 21:15	1.86	7.45	-0.27	
5/14/24 21:16	1.85	7.45	-0.22	
5/14/24 21:17	1.85	7.45	-0.32	
5/14/24 21:18	1.85	7.45	-0.28	
5/14/24 21:19	1.85	7.46	-0.17	
5/14/24 21:20	1.85	7.45	-0.35	
5/14/24 21:21	1.87	7.44	-0.30	
5/14/24 21:22	1.85	7.45	-0.17	
5/14/24 21:23	1.84	7.46	-0.32	
5/14/24 21:24	1.84	7.46	-0.29	
5/14/24 21:25	1.88	7.44	-0.24	
5/14/24 21:26	1.90	7.43	-0.27	
5/14/24 21:27	1.87	7.45	-0.28	
5/14/24 21:28	1.86	7.46	-0.28	
5/14/24 21:29	1.89	7.44	-0.25	
5/14/24 21:30	1.88	7.44	-0.29	
5/14/24 21:31	1.89	7.43	-0.29	
5/14/24 21:32	1.89	7.44	-0.22	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 21:33	1.89	7.44	-0.32	
5/14/24 21:34	1.88	7.45	-0.29	
5/14/24 21:35	1.87	7.45	-0.18	
5/14/24 21:36	1.90	7.43	-0.37	
5/14/24 21:37	1.87	7.45	-0.31	
5/14/24 21:38	1.89	7.44	-0.19	
5/14/24 21:39	1.87	7.45	-0.32	
5/14/24 21:40	1.88	7.44	-0.29	
5/14/24 21:41	1.90	7.44	-0.24	
5/14/24 21:42	1.89	7.44	-0.27	
5/14/24 21:43	1.86	7.45	-0.27	
5/14/24 21:44	1.85	7.46	-0.27	
5/14/24 21:45	1.83	7.47	-0.23	
5/14/24 21:46	1.83	7.47	-0.27	
5/14/24 21:47	1.80	7.48	-0.28	
5/14/24 21:48	1.81	7.47	-0.20	
5/14/24 21:49	1.79	7.49	-0.31	
5/14/24 21:50	1.79	7.47	-0.28	
5/14/24 21:51	1.81	7.46	-0.17	
5/14/24 21:52	1.77	7.48	-0.35	
5/14/24 21:53	1.75	7.49	-0.30	
5/14/24 21:54	1.74	7.50	-0.17	
5/14/24 21:55	1.77	7.48	-0.32	
5/14/24 21:56	1.77	7.49	-0.28	
5/14/24 21:57	1.77	7.49	-0.23	
5/14/24 21:58	1.80	7.47	-0.26	
5/14/24 21:59	1.77	7.49	-0.27	
5/14/24 22:00	1.80	7.45	-0.26	
5/14/24 22:01	1.81	7.46	-0.23	
5/14/24 22:02	1.80	7.46	-0.27	
5/14/24 22:03	1.82	7.45	-0.27	
5/14/24 22:04	1.79	7.47	-0.19	
5/14/24 22:05	1.81	7.46	-0.31	
5/14/24 22:06	1.78	7.48	-0.27	
5/14/24 22:07	1.79	7.48	-0.16	
5/14/24 22:08	1.78	7.47	-0.35	
5/14/24 22:09	1.77	7.48	-0.30	
5/14/24 22:10	1.79	7.47	-0.17	
5/14/24 22:11	1.79	7.47	-0.31	
5/14/24 22:12	1.80	7.45	-0.27	
5/14/24 22:13	1.78	7.46	-0.23	
5/14/24 22:14	1.81	7.45	-0.26	
5/14/24 22:15	1.79	7.46	-0.28	
5/14/24 22:16	1.81	7.44	-0.26	
5/14/24 22:17	1.83	7.44	-0.23	
5/14/24 22:18	1.78	7.46	-0.28	
5/14/24 22:19	1.81	7.45	-0.28	
5/14/24 22:20	1.82	7.45	-0.19	
5/14/24 22:21	1.78	7.47	-0.31	
5/14/24 22:22	1.80	7.46	-0.28	
5/14/24 22:23	1.77	7.48	-0.17	
5/14/24 22:24	1.77	7.48	-0.36	
5/14/24 22:25	1.79	7.47	-0.31	
5/14/24 22:26	1.79	7.47	-0.18	
5/14/24 22:27	1.79	7.47	-0.32	
5/14/24 22:28	1.82	7.45	-0.27	
5/14/24 22:29	1.81	7.45	-0.25	
5/14/24 22:30	1.82	7.45	-0.29	
5/14/24 22:31	1.86	7.42	-0.28	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 22:32	1.83	7.44	-0.27	
5/14/24 22:33	1.85	7.43	-0.23	
5/14/24 22:34	1.83	7.44	-0.28	
5/14/24 22:35	1.80	7.45	-0.30	
5/14/24 22:36	1.79	7.46	-0.19	
5/14/24 22:37	1.77	7.46	-0.32	
5/14/24 22:38	1.79	7.46	-0.29	
5/14/24 22:39	1.78	7.48	-0.17	
5/14/24 22:40	1.84	7.44	-0.36	
5/14/24 22:41	1.81	7.45	-0.31	
5/14/24 22:42	1.81	7.44	-0.18	
5/14/24 22:43	1.81	7.45	-0.32	
5/14/24 22:44	1.82	7.43	-0.27	
5/14/24 22:45	1.79	7.46	-0.23	
5/14/24 22:46	1.81	7.45	-0.28	
5/14/24 22:47	1.85	7.42	-0.28	
5/14/24 22:48	1.82	7.44	-0.27	
5/14/24 22:49	1.81	7.44	-0.23	
5/14/24 22:50	1.81	7.46	-0.28	
5/14/24 22:51	1.80	7.46	-0.29	
5/14/24 22:52	1.82	7.44	-0.18	
5/14/24 22:53	1.82	7.44	-0.31	
5/14/24 22:54	1.82	7.44	-0.30	
5/14/24 22:55	1.79	7.44	-0.17	
5/14/24 22:56	1.83	7.42	-0.34	
5/14/24 22:57	1.87	7.40	-0.31	
5/14/24 22:58	1.85	7.41	-0.17	
5/14/24 22:59	1.81	7.44	-0.32	
5/14/24 23:00	1.80	7.45	-0.27	
5/14/24 23:01	1.79	7.45	-0.24	
5/14/24 23:02	1.82	7.44	-0.29	
5/14/24 23:03	1.82	7.43	-0.28	
5/14/24 23:04	1.81	7.44	-0.26	
5/14/24 23:05	1.82	7.44	-0.23	
5/14/24 23:06	1.83	7.43	-0.28	
5/14/24 23:07	1.81	7.44	-0.30	
5/14/24 23:08	1.83	7.43	-0.17	
5/14/24 23:09	1.82	7.44	-0.31	
5/14/24 23:10	1.82	7.44	-0.30	
5/14/24 23:11	1.85	7.43	-0.17	
5/14/24 23:12	1.85	7.41	-0.33	
5/14/24 23:13	1.81	7.44	-0.31	
5/14/24 23:14	1.84	7.42	-0.16	
5/14/24 23:15	1.81	7.44	-0.32	
5/14/24 23:16	1.86	7.41	-0.26	
5/14/24 23:17	1.81	7.44	-0.23	
5/14/24 23:18	1.82	7.43	-0.29	
5/14/24 23:19	1.79	7.46	-0.27	
5/14/24 23:20	1.82	7.44	-0.26	
5/14/24 23:21	1.82	7.44	-0.23	
5/14/24 23:22	1.84	7.43	-0.28	
5/14/24 23:23	1.82	7.43	-0.29	
5/14/24 23:24	1.83	7.42	-0.17	
5/14/24 23:25	1.85	7.41	-0.31	
5/14/24 23:26	1.82	7.44	-0.30	
5/14/24 23:27	1.85	7.42	-0.17	
5/14/24 23:28	1.84	7.42	-0.32	
5/14/24 23:29	1.85	7.41	-0.31	
5/14/24 23:30	1.82	7.44	-0.17	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/14/24 23:31	1.83	7.43	-0.31	
5/14/24 23:32	1.82	7.45	-0.26	
5/14/24 23:33	1.82	7.44	-0.23	
5/14/24 23:34	1.83	7.43	-0.29	
5/14/24 23:35	1.83	7.43	-0.27	
5/14/24 23:36	1.84	7.42	-0.25	
5/14/24 23:37	1.86	7.41	-0.23	
5/14/24 23:38	1.82	7.43	-0.29	
5/14/24 23:39	1.84	7.42	-0.29	
5/14/24 23:40	1.86	7.42	-0.17	
5/14/24 23:41	1.81	7.44	-0.31	
5/14/24 23:42	1.81	7.45	-0.31	
5/14/24 23:43	1.83	7.43	-0.17	
5/14/24 23:44	1.82	7.43	-0.31	
5/14/24 23:45	1.83	7.43	-0.31	
5/14/24 23:46	1.84	7.42	-0.17	
5/14/24 23:47	1.82	7.44	-0.32	
5/14/24 23:48	1.82	7.42	-0.26	
5/14/24 23:49	1.83	7.42	-0.24	
5/14/24 23:50	1.84	7.42	-0.29	
5/14/24 23:51	1.84	7.41	-0.28	
5/14/24 23:52	1.83	7.43	-0.26	
5/14/24 23:53	1.82	7.43	-0.22	
5/14/24 23:54	1.83	7.42	-0.29	
5/14/24 23:55	1.77	7.45	-0.29	
5/14/24 23:56	1.81	7.43	-0.18	
5/14/24 23:57	1.81	7.43	-0.31	
5/14/24 23:58	1.82	7.43	-0.32	
5/14/24 23:59	1.83	7.42	-0.17	
5/15/24 0:00	1.83	7.42	-0.31	
5/15/24 0:01	1.83	7.42	-0.31	
5/15/24 0:02	1.83	7.42	-0.17	
5/15/24 0:03	1.82	7.43	-0.32	
5/15/24 0:04	1.86	7.40	-0.27	
5/15/24 0:05	1.83	7.42	-0.24	
5/15/24 0:06	1.84	7.41	-0.29	
5/15/24 0:07	1.80	7.42	-0.28	
5/15/24 0:08	1.84	7.41	-0.26	
5/15/24 0:09	1.86	7.39	-0.23	
5/15/24 0:10	1.86	7.39	-0.30	
5/15/24 0:11	1.84	7.42	-0.29	
5/15/24 0:12	1.81	7.43	-0.17	
5/15/24 0:13	1.82	7.43	-0.31	
5/15/24 0:14	1.83	7.42	-0.32	
5/15/24 0:15	1.83	7.40	-0.17	
5/15/24 0:16	1.83	7.41	-0.30	
5/15/24 0:17	1.82	7.42	-0.31	
5/15/24 0:18	1.82	7.42	-0.18	
5/15/24 0:19	1.79	7.44	-0.31	
5/15/24 0:20	1.83	7.41	-0.28	
5/15/24 0:21	1.81	7.43	-0.24	
5/15/24 0:22	1.84	7.40	-0.29	
5/15/24 0:23	1.82	7.41	-0.28	
5/15/24 0:24	1.83	7.40	-0.26	
5/15/24 0:25	1.82	7.40	-0.23	
5/15/24 0:26	1.84	7.39	-0.30	
5/15/24 0:27	1.84	7.39	-0.29	
5/15/24 0:28	1.85	7.39	-0.17	
5/15/24 0:29	1.87	7.37	-0.32	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 0:30	1.85	7.39	-0.33	
5/15/24 0:31	1.81	7.41	-0.17	
5/15/24 0:32	1.81	7.41	-0.30	
5/15/24 0:33	1.83	7.40	-0.30	
5/15/24 0:34	1.82	7.41	-0.17	
5/15/24 0:35	1.84	7.39	-0.28	
5/15/24 0:36	1.83	7.40	-0.25	
5/15/24 0:37	1.84	7.39	-0.21	
5/15/24 0:38	1.85	7.38	-0.27	
5/15/24 0:39	1.84	7.39	-0.25	
5/15/24 0:40	1.84	7.38	-0.23	
5/15/24 0:41	1.85	7.38	-0.20	
5/15/24 0:42	1.84	7.39	-0.28	
5/15/24 0:43	1.83	7.40	-0.26	
5/15/24 0:44	1.82	7.40	-0.14	
5/15/24 0:45	1.81	7.41	-0.30	
5/15/24 0:46	1.85	7.39	-0.30	
5/15/24 0:47	1.83	7.41	-0.14	
5/15/24 0:48	1.82	7.43	-0.27	
5/15/24 0:49	1.85	7.42	-0.29	
5/15/24 0:50	1.80	7.45	-0.17	
5/15/24 0:51	1.80	7.44	-0.27	
5/15/24 0:52	1.82	7.43	-0.25	
5/15/24 0:53	1.79	7.45	-0.20	
5/15/24 0:54	1.82	7.43	-0.26	
5/15/24 0:55	1.83	7.43	-0.25	
5/15/24 0:56	1.83	7.42	-0.22	
5/15/24 0:57	1.84	7.41	-0.19	
5/15/24 0:58	1.85	7.41	-0.28	
5/15/24 0:59	1.84	7.42	-0.25	
5/15/24 1:00	1.86	7.40	-0.13	
5/15/24 1:01	1.83	7.42	-0.29	
5/15/24 1:02	1.83	7.43	-0.28	
5/15/24 1:03	1.80	7.45	-0.13	
5/15/24 1:04	1.83	7.42	-0.25	
5/15/24 1:05	1.82	7.43	-0.27	
5/15/24 1:06	1.83	7.42	-0.16	
5/15/24 1:07	1.83	7.41	-0.25	
5/15/24 1:08	1.85	7.41	-0.24	
5/15/24 1:09	1.84	7.41	-0.19	
5/15/24 1:10	1.83	7.42	-0.26	
5/15/24 1:11	1.86	7.39	-0.25	
5/15/24 1:12	1.84	7.41	-0.22	
5/15/24 1:13	1.84	7.40	-0.20	
5/15/24 1:14	1.85	7.40	-0.28	
5/15/24 1:15	1.84	7.40	-0.25	
5/15/24 1:16	1.84	7.40	-0.14	
5/15/24 1:17	1.86	7.39	-0.30	
5/15/24 1:18	1.86	7.39	-0.29	
5/15/24 1:19	1.86	7.39	-0.15	
5/15/24 1:20	1.84	7.40	-0.26	
5/15/24 1:21	1.89	7.38	-0.29	
5/15/24 1:22	1.82	7.42	-0.18	
5/15/24 1:23	1.85	7.40	-0.25	
5/15/24 1:24	1.83	7.40	-0.26	
5/15/24 1:25	1.82	7.41	-0.21	
5/15/24 1:26	1.86	7.39	-0.26	
5/15/24 1:27	1.86	7.39	-0.26	
5/15/24 1:28	1.88	7.39	-0.24	



BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 1:29	1.87	7.39	-0.22	
5/15/24 1:30	1.86	7.39	-0.31	
5/15/24 1:31	1.90	7.37	-0.29	
5/15/24 1:32	1.86	7.39	-0.17	
5/15/24 1:33	1.85	7.39	-0.35	
5/15/24 1:34	1.84	7.40	-0.32	
5/15/24 1:35	1.83	7.41	-0.18	
5/15/24 1:36	1.88	7.37	-0.30	
5/15/24 1:37	1.87	7.38	-0.32	
5/15/24 1:38	1.87	7.39	-0.22	
5/15/24 1:39	1.85	7.40	-0.28	
5/15/24 1:40	1.86	7.39	-0.28	
5/15/24 1:41	1.88	7.38	-0.24	
5/15/24 1:42	1.86	7.39	-0.29	
5/15/24 1:43	1.83	7.41	-0.28	
5/15/24 1:44	1.82	7.41	-0.26	
5/15/24 1:45	1.85	7.40	-0.23	
5/15/24 1:46	1.85	7.40	-0.32	
5/15/24 1:47	1.88	7.37	-0.28	
5/15/24 1:48	1.86	7.39	-0.18	
5/15/24 1:49	1.87	7.39	-0.34	
5/15/24 1:50	1.86	7.38	-0.30	
5/15/24 1:51	1.86	7.38	-0.18	
5/15/24 1:52	1.87	7.38	-0.29	
5/15/24 1:53	1.86	7.38	-0.31	
5/15/24 1:54	1.84	7.40	-0.22	
5/15/24 1:55	1.85	7.39	-0.28	
5/15/24 1:56	1.83	7.40	-0.28	
5/15/24 1:57	1.86	7.38	-0.26	
5/15/24 1:58	1.85	7.39	-0.28	
5/15/24 1:59	1.86	7.39	-0.28	
5/15/24 2:00	1.83	7.40	-0.26	
5/15/24 2:01	1.83	7.40	-0.24	
5/15/24 2:02	1.80	7.42	-0.31	
5/15/24 2:03	1.83	7.40	-0.29	
5/15/24 2:04	1.87	7.38	-0.17	
5/15/24 2:05	1.87	7.39	-0.34	
5/15/24 2:06	1.86	7.39	-0.30	
5/15/24 2:07	1.86	7.39	-0.17	
5/15/24 2:08	1.88	7.37	-0.29	
5/15/24 2:09	1.87	7.38	-0.31	
5/15/24 2:10	1.89	7.36	-0.22	
5/15/24 2:11	1.87	7.37	-0.27	
5/15/24 2:12	1.87	7.37	-0.27	
5/15/24 2:13	1.84	7.39	-0.25	
5/15/24 2:14	1.88	7.37	-0.26	
5/15/24 2:15	1.89	7.37	-0.27	
5/15/24 2:16	1.87	7.38	-0.25	
5/15/24 2:17	1.85	7.39	-0.23	
5/15/24 2:18	1.85	7.38	-0.31	
5/15/24 2:19	1.83	7.40	-0.29	
5/15/24 2:20	1.85	7.39	-0.16	
5/15/24 2:21	1.84	7.39	-0.34	
5/15/24 2:22	1.85	7.39	-0.29	
5/15/24 2:23	1.87	7.38	-0.17	
5/15/24 2:24	1.87	7.37	-0.29	
5/15/24 2:25	1.87	7.37	-0.29	
5/15/24 2:26	1.86	7.38	-0.22	
5/15/24 2:27	1.87	7.38	-0.26	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 2:28	1.87	7.37	-0.27	
5/15/24 2:29	1.84	7.40	-0.26	
5/15/24 2:30	1.86	7.39	-0.25	
5/15/24 2:31	1.87	7.39	-0.27	
5/15/24 2:32	1.85	7.39	-0.25	
5/15/24 2:33	1.85	7.39	-0.23	
5/15/24 2:34	1.85	7.39	-0.31	
5/15/24 2:35	1.86	7.38	-0.28	
5/15/24 2:36	1.88	7.37	-0.16	
5/15/24 2:37	1.89	7.36	-0.34	
5/15/24 2:38	1.89	7.36	-0.30	
5/15/24 2:39	1.86	7.37	-0.17	
5/15/24 2:40	1.90	7.34	-0.29	
5/15/24 2:41	1.88	7.36	-0.28	
5/15/24 2:42	1.88	7.36	-0.21	
5/15/24 2:43	1.82	7.40	-0.26	
5/15/24 2:44	1.85	7.38	-0.27	
5/15/24 2:45	1.86	7.37	-0.26	
5/15/24 2:46	1.85	7.37	-0.24	
5/15/24 2:47	1.86	7.36	-0.27	
5/15/24 2:48	1.88	7.35	-0.25	
5/15/24 2:49	1.87	7.36	-0.23	
5/15/24 2:50	1.87	7.36	-0.31	
5/15/24 2:51	1.88	7.36	-0.28	
5/15/24 2:52	1.87	7.36	-0.16	
5/15/24 2:53	1.88	7.35	-0.35	
5/15/24 2:54	1.89	7.34	-0.30	
5/15/24 2:55	1.86	7.36	-0.17	
5/15/24 2:56	1.87	7.35	-0.30	
5/15/24 2:57	1.88	7.35	-0.28	
5/15/24 2:58	1.88	7.36	-0.22	
5/15/24 2:59	1.86	7.36	-0.25	
5/15/24 3:00	1.84	7.38	-0.26	
5/15/24 3:01	1.82	7.39	-0.26	
5/15/24 3:02	1.85	7.38	-0.23	
5/15/24 3:03	1.86	7.37	-0.27	
5/15/24 3:04	1.86	7.37	-0.26	
5/15/24 3:05	1.87	7.36	-0.21	
5/15/24 3:06	1.87	7.37	-0.30	
5/15/24 3:07	1.88	7.35	-0.27	
5/15/24 3:08	1.86	7.36	-0.15	
5/15/24 3:09	1.91	7.34	-0.33	
5/15/24 3:10	1.88	7.35	-0.29	
5/15/24 3:11	1.93	7.33	-0.17	
5/15/24 3:12	1.87	7.37	-0.30	
5/15/24 3:13	1.87	7.36	-0.26	
5/15/24 3:14	1.83	7.39	-0.22	
5/15/24 3:15	1.84	7.38	-0.24	
5/15/24 3:16	1.87	7.37	-0.26	
5/15/24 3:17	1.85	7.38	-0.26	
5/15/24 3:18	1.86	7.37	-0.23	
5/15/24 3:19	1.87	7.37	-0.26	
5/15/24 3:20	1.88	7.36	-0.25	
5/15/24 3:21	1.88	7.36	-0.20	
5/15/24 3:22	1.87	7.36	-0.29	
5/15/24 3:23	1.83	7.38	-0.26	
5/15/24 3:24	1.86	7.37	-0.14	
5/15/24 3:25	1.88	7.36	-0.32	
5/15/24 3:26	1.86	7.37	-0.29	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 3:27	1.86	7.37	-0.16	
5/15/24 3:28	1.86	7.37	-0.30	
5/15/24 3:29	1.85	7.37	-0.26	
5/15/24 3:30	1.84	7.39	-0.21	
5/15/24 3:31	1.85	7.37	-0.23	
5/15/24 3:32	1.86	7.37	-0.25	
5/15/24 3:33	1.86	7.37	-0.23	
5/15/24 3:34	1.86	7.37	-0.19	
5/15/24 3:35	1.87	7.37	-0.24	
5/15/24 3:36	1.87	7.36	-0.22	
5/15/24 3:37	1.88	7.35	-0.16	
5/15/24 3:38	1.87	7.36	-0.26	
5/15/24 3:39	1.87	7.36	-0.22	
5/15/24 3:40	1.86	7.37	-0.11	
5/15/24 3:41	1.86	7.36	-0.30	
5/15/24 3:42	1.85	7.37	-0.26	
5/15/24 3:43	1.87	7.36	-0.11	
5/15/24 3:44	1.83	7.38	-0.26	
5/15/24 3:45	1.82	7.39	-0.22	
5/15/24 3:46	1.85	7.37	-0.17	
5/15/24 3:47	1.84	7.38	-0.21	
5/15/24 3:48	1.83	7.38	-0.22	
5/15/24 3:49	1.84	7.37	-0.21	
5/15/24 3:50	1.83	7.38	-0.17	
5/15/24 3:51	1.83	7.38	-0.22	
5/15/24 3:52	1.86	7.36	-0.22	
5/15/24 3:53	1.84	7.38	-0.13	
5/15/24 3:54	1.86	7.36	-0.25	
5/15/24 3:55	1.87	7.36	-0.22	
5/15/24 3:56	1.86	7.37	-0.11	
5/15/24 3:57	1.83	7.37	-0.29	
5/15/24 3:58	1.85	7.36	-0.25	
5/15/24 3:59	1.84	7.37	-0.10	
5/15/24 4:00	1.88	7.35	-0.25	
5/15/24 4:01	1.87	7.35	-0.23	
5/15/24 4:02	1.86	7.36	-0.20	
5/15/24 4:03	1.86	7.36	-0.24	
5/15/24 4:04	1.86	7.36	-0.24	
5/15/24 4:05	1.85	7.37	-0.22	
5/15/24 4:06	1.88	7.35	-0.18	
5/15/24 4:07	1.84	7.38	-0.25	
5/15/24 4:08	1.84	7.38	-0.25	
5/15/24 4:09	1.84	7.37	-0.15	
5/15/24 4:10	1.86	7.35	-0.28	
5/15/24 4:11	1.86	7.35	-0.25	
5/15/24 4:12	1.83	7.37	-0.12	
5/15/24 4:13	1.88	7.34	-0.30	
5/15/24 4:14	1.85	7.36	-0.27	
5/15/24 4:15	1.85	7.35	-0.14	
5/15/24 4:16	1.89	7.34	-0.28	
5/15/24 4:17	1.85	7.36	-0.23	
5/15/24 4:18	1.83	7.37	-0.19	
5/15/24 4:19	1.85	7.36	-0.24	
5/15/24 4:20	1.84	7.36	-0.23	
5/15/24 4:21	1.84	7.37	-0.22	
5/15/24 4:22	1.84	7.36	-0.19	
5/15/24 4:23	1.85	7.35	-0.24	
5/15/24 4:24	1.85	7.36	-0.25	
5/15/24 4:25	1.86	7.35	-0.14	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 4:26	1.87	7.35	-0.27	
5/15/24 4:27	1.88	7.34	-0.24	
5/15/24 4:28	1.84	7.36	-0.13	
5/15/24 4:29	1.86	7.34	-0.30	
5/15/24 4:30	1.86	7.35	-0.26	
5/15/24 4:31	1.86	7.36	-0.13	
5/15/24 4:32	1.90	7.33	-0.27	
5/15/24 4:33	1.90	7.34	-0.24	
5/15/24 4:34	1.88	7.34	-0.19	
5/15/24 4:35	1.85	7.36	-0.23	
5/15/24 4:36	1.85	7.36	-0.24	
5/15/24 4:37	1.82	7.38	-0.21	
5/15/24 4:38	1.84	7.37	-0.18	
5/15/24 4:39	1.79	7.40	-0.24	
5/15/24 4:40	1.89	7.35	-0.25	
5/15/24 4:41	1.87	7.36	-0.14	
5/15/24 4:42	1.89	7.35	-0.28	
5/15/24 4:43	1.89	7.34	-0.26	
5/15/24 4:44	1.87	7.35	-0.12	
5/15/24 4:45	1.91	7.34	-0.30	
5/15/24 4:46	1.91	7.32	-0.27	
5/15/24 4:47	1.90	7.33	-0.13	
5/15/24 4:48	1.87	7.34	-0.28	
5/15/24 4:49	1.91	7.33	-0.23	
5/15/24 4:50	1.89	7.34	-0.19	
5/15/24 4:51	1.86	7.35	-0.24	
5/15/24 4:52	1.86	7.35	-0.24	
5/15/24 4:53	1.88	7.34	-0.22	
5/15/24 4:54	1.90	7.33	-0.19	
5/15/24 4:55	1.90	7.33	-0.24	
5/15/24 4:56	1.92	7.31	-0.26	
5/15/24 4:57	1.91	7.32	-0.14	
5/15/24 4:58	1.93	7.31	-0.28	
5/15/24 4:59	1.95	7.30	-0.26	
5/15/24 5:00	1.98	7.29	-0.13	
5/15/24 5:01	1.96	7.31	-0.29	
5/15/24 5:02	1.96	7.32	-0.27	
5/15/24 5:03	1.93	7.33	-0.13	
5/15/24 5:04	1.89	7.35	-0.28	
5/15/24 5:05	1.90	7.35	-0.24	
5/15/24 5:06	1.94	7.32	-0.19	
5/15/24 5:07	1.94	7.33	-0.25	
5/15/24 5:08	1.90	7.33	-0.24	
5/15/24 5:09	1.94	7.31	-0.22	
5/15/24 5:10	1.89	7.33	-0.19	
5/15/24 5:11	1.90	7.33	-0.25	
5/15/24 5:12	1.93	7.32	-0.26	
5/15/24 5:13	1.91	7.33	-0.13	
5/15/24 5:14	1.93	7.32	-0.28	
5/15/24 5:15	1.91	7.34	-0.27	
5/15/24 5:16	1.89	7.34	-0.12	
5/15/24 5:17	1.94	7.32	-0.28	
5/15/24 5:18	1.93	7.32	-0.27	
5/15/24 5:19	1.93	7.32	-0.13	
5/15/24 5:20	1.94	7.32	-0.28	
5/15/24 5:21	1.92	7.32	-0.23	
5/15/24 5:22	1.91	7.33	-0.19	
5/15/24 5:23	1.91	7.33	-0.25	
5/15/24 5:24	1.94	7.31	-0.24	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 5:25	1.94	7.32	-0.22	
5/15/24 5:26	1.92	7.34	-0.19	
5/15/24 5:27	1.96	7.32	-0.26	
5/15/24 5:28	1.96	7.32	-0.24	
5/15/24 5:29	1.96	7.31	-0.13	
5/15/24 5:30	1.95	7.33	-0.28	
5/15/24 5:31	1.95	7.32	-0.28	
5/15/24 5:32	1.92	7.33	-0.13	
5/15/24 5:33	1.93	7.33	-0.27	
5/15/24 5:34	1.94	7.33	-0.27	
5/15/24 5:35	1.94	7.33	-0.13	
5/15/24 5:36	1.90	7.34	-0.28	
5/15/24 5:37	1.89	7.33	-0.23	
5/15/24 5:38	1.92	7.31	-0.19	
5/15/24 5:39	1.96	7.30	-0.25	
5/15/24 5:40	1.93	7.32	-0.23	
5/15/24 5:41	1.92	7.32	-0.22	
5/15/24 5:42	1.94	7.30	-0.19	
5/15/24 5:43	1.94	7.31	-0.26	
5/15/24 5:44	1.93	7.31	-0.25	
5/15/24 5:45	1.94	7.31	-0.12	
5/15/24 5:46	1.95	7.32	-0.28	
5/15/24 5:47	1.98	7.30	-0.28	
5/15/24 5:48	1.97	7.31	-0.12	
5/15/24 5:49	1.97	7.32	-0.26	
5/15/24 5:50	1.97	7.32	-0.26	
5/15/24 5:51	1.99	7.31	-0.13	
5/15/24 5:52	1.93	7.34	-0.27	
5/15/24 5:53	1.99	7.31	-0.23	
5/15/24 5:54	1.98	7.31	-0.19	
5/15/24 5:55	1.94	7.32	-0.24	
5/15/24 5:56	1.94	7.32	-0.23	
5/15/24 5:57	1.93	7.32	-0.21	
5/15/24 5:58	1.92	7.33	-0.18	
5/15/24 5:59	1.91	7.33	-0.26	
5/15/24 6:00	1.89	7.34	-0.24	
5/15/24 6:01	1.91	7.33	-0.12	
5/15/24 6:02	1.92	7.34	-0.27	
5/15/24 6:03	1.98	7.30	-0.29	
5/15/24 6:04	1.96	7.30	-0.12	
5/15/24 6:05	1.96	7.30	-0.26	
5/15/24 6:06	1.97	7.30	-0.27	
5/15/24 6:07	1.97	7.31	-0.13	
5/15/24 6:08	2.01	7.29	-0.27	
5/15/24 6:09	1.96	7.32	-0.23	
5/15/24 6:10	1.93	7.33	-0.19	
5/15/24 6:11	1.96	7.32	-0.25	
5/15/24 6:12	1.97	7.32	-0.24	
5/15/24 6:13	1.98	7.31	-0.22	
5/15/24 6:14	1.97	7.32	-0.20	
5/15/24 6:15	1.94	7.34	-0.27	
5/15/24 6:16	1.93	7.34	-0.25	
5/15/24 6:17	1.98	7.32	-0.13	
5/15/24 6:18	1.96	7.32	-0.28	
5/15/24 6:19	1.97	7.32	-0.29	
5/15/24 6:20	2.02	7.29	-0.13	
5/15/24 6:21	1.98	7.32	-0.25	
5/15/24 6:22	1.99	7.30	-0.27	
5/15/24 6:23	1.99	7.30	-0.15	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 6:24	2.00	7.30	-0.26	
5/15/24 6:25	1.99	7.29	-0.24	
5/15/24 6:26	2.00	7.30	-0.18	
5/15/24 6:27	1.95	7.32	-0.26	
5/15/24 6:28	1.97	7.30	-0.24	
5/15/24 6:29	1.96	7.32	-0.22	
5/15/24 6:30	1.94	7.32	-0.19	
5/15/24 6:31	1.92	7.33	-0.27	
5/15/24 6:32	1.99	7.31	-0.25	
5/15/24 6:33	1.98	7.30	-0.13	
5/15/24 6:34	1.94	7.31	-0.29	
5/15/24 6:35	1.99	7.29	-0.29	
5/15/24 6:36	1.96	7.31	-0.13	
5/15/24 6:37	1.96	7.31	-0.25	
5/15/24 6:38	1.94	7.33	-0.27	
5/15/24 6:39	1.94	7.33	-0.15	
5/15/24 6:40	1.97	7.32	-0.25	
5/15/24 6:41	1.97	7.32	-0.23	
5/15/24 6:42	1.89	7.38	-0.19	
5/15/24 6:43	2.02	7.30	-0.27	
5/15/24 6:44	1.99	7.32	-0.24	
5/15/24 6:45	2.00	7.31	-0.22	
5/15/24 6:46	1.97	7.31	-0.19	
5/15/24 6:47	1.93	7.33	-0.28	
5/15/24 6:48	1.97	7.31	-0.25	
5/15/24 6:49	1.97	7.32	-0.14	
5/15/24 6:50	1.96	7.32	-0.29	
5/15/24 6:51	1.92	7.35	-0.29	
5/15/24 6:52	1.93	7.34	-0.15	
5/15/24 6:53	1.94	7.33	-0.27	
5/15/24 6:54	1.96	7.32	-0.29	
5/15/24 6:55	1.94	7.32	-0.17	
5/15/24 6:56	1.95	7.31	-0.27	
5/15/24 6:57	1.94	7.32	-0.25	
5/15/24 6:58	1.94	7.32	-0.21	
5/15/24 6:59	1.92	7.32	-0.27	
5/15/24 7:00	1.94	7.32	-0.27	
5/15/24 7:01	1.94	7.32	-0.25	
5/15/24 7:02	1.94	7.32	-0.22	
5/15/24 7:03	1.91	7.34	-0.30	
5/15/24 7:04	1.96	7.32	-0.27	
5/15/24 7:05	1.94	7.33	-0.16	
5/15/24 7:06	1.91	7.34	-0.33	
5/15/24 7:07	1.93	7.35	-0.31	
5/15/24 7:08	1.86	7.38	-0.17	
5/15/24 7:09	1.87	7.37	-0.28	
5/15/24 7:10	1.84	7.38	-0.31	
5/15/24 7:11	1.87	7.35	5.06	
5/15/24 7:12	1.86	7.36	4.08	
5/15/24 7:13	2.41	4.55	13.25	Direct Cals
5/15/24 7:14	0.00	0.00	7.69	Zeros
5/15/24 7:15	0.00	0.02	6.72	
5/15/24 7:16	13.70	12.84	6.13	
5/15/24 7:17	22.91	22.21	6.04	
5/15/24 7:18	23.04	22.85	5.60	High
5/15/24 7:19	23.04	22.84	5.42	
5/15/24 7:20	11.18	10.89	7.56	
5/15/24 7:21	10.99	10.98	93.06	Mid
5/15/24 7:22	8.76	8.75	94.34	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 7:23	0.01	0.11	94.02	Initial Bias
5/15/24 7:24	0.00	0.06	93.97	Zeros
5/15/24 7:25	2.64	2.58	74.58	
5/15/24 7:26	10.96	10.90	11.24	Mid
5/15/24 7:27	8.66	10.08	7.79	
5/15/24 7:28	1.88	7.53	7.09	
5/15/24 7:29	1.87	7.54	6.79	
5/15/24 7:30	1.86	7.53	6.27	
5/15/24 7:31	1.87	7.52	1.40	Initial CAL for THC
5/15/24 7:32	1.89	7.50	0.00	Zero
5/15/24 7:33	1.91	7.50	0.08	
5/15/24 7:34	1.91	7.50	19.17	
5/15/24 7:35	1.91	7.50	26.95	
5/15/24 7:36	1.87	7.51	25.28	
5/15/24 7:37	1.88	7.51	25.39	High
5/15/24 7:38	1.88	7.51	25.43	
5/15/24 7:39	1.86	7.52	10.84	
5/15/24 7:40	1.85	7.53	8.53	
5/15/24 7:41	1.91	7.49	8.98	Low
5/15/24 7:42	1.88	7.50	10.57	
5/15/24 7:43	1.89	7.50	16.68	
5/15/24 7:44	1.89	7.49	15.19	Mid
5/15/24 7:45	1.87	7.51	12.37	
5/15/24 7:46	1.89	7.49	0.00	Zero
5/15/24 7:47	1.87	7.51	5.81	
5/15/24 7:48	1.88	7.50	14.97	Mid
5/15/24 7:49	1.89	7.50	15.11	
5/15/24 7:50	1.89	7.50	5.81	
5/15/24 7:51	1.87	7.51	0.00	
5/15/24 7:52	1.87	7.50	0.00	
5/15/24 7:53	1.86	7.52	0.00	
5/15/24 7:54	1.89	7.51	0.02	
5/15/24 7:55	1.86	7.53	0.00	
5/15/24 7:56	1.86	7.52	0.00	
5/15/24 7:57	1.84	7.53	0.00	
5/15/24 7:58	1.83	7.54	0.00	
5/15/24 7:59	1.87	7.51	0.00	
5/15/24 8:00	1.87	7.52	0.00	
5/15/24 8:01	1.90	7.51	0.00	
5/15/24 8:02	1.84	7.53	0.00	
5/15/24 8:03	1.86	7.52	0.00	
5/15/24 8:04	1.86	7.53	0.00	
5/15/24 8:05	1.89	7.51	0.00	
5/15/24 8:06	1.84	7.54	0.00	
5/15/24 8:07	1.84	7.54	0.00	
5/15/24 8:08	1.86	7.53	0.01	
5/15/24 8:09	1.86	7.54	0.00	
5/15/24 8:10	1.88	7.53	0.00	
5/15/24 8:11	1.87	7.53	0.00	
5/15/24 8:12	1.86	7.53	0.00	
5/15/24 8:13	1.86	7.52	0.00	
5/15/24 8:14	1.85	7.52	0.05	
5/15/24 8:15	1.88	7.50	2.22	
5/15/24 8:16	1.84	7.52	2.17	
5/15/24 8:17	1.87	7.51	2.04	
5/15/24 8:18	1.86	7.52	1.75	
5/15/24 8:19	1.85	7.53	0.05	
5/15/24 8:20	1.83	7.53	0.06	
5/15/24 8:21	1.81	7.55	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 8:22	1.85	7.51	0.05	
5/15/24 8:23	1.83	7.52	0.00	
5/15/24 8:24	1.87	7.49	0.00	
5/15/24 8:25	1.86	7.48	0.00	
5/15/24 8:26	1.85	7.48	0.00	
5/15/24 8:27	1.87	7.46	0.40	
5/15/24 8:28	1.84	7.48	1.39	
5/15/24 8:29	1.83	7.47	1.45	
5/15/24 8:30	1.84	7.47	1.31	
5/15/24 8:31	1.81	7.48	1.07	
5/15/24 8:32	1.83	7.47	0.00	
5/15/24 8:33	1.81	7.48	0.00	
5/15/24 8:34	1.78	7.50	0.01	
5/15/24 8:35	1.83	7.47	0.00	
5/15/24 8:36	1.85	7.46	0.00	
5/15/24 8:37	1.83	7.48	0.00	
5/15/24 8:38	1.85	7.47	0.00	
5/15/24 8:39	1.86	7.46	0.01	
5/15/24 8:40	1.84	7.47	0.00	
5/15/24 8:41	1.82	7.48	0.45	
5/15/24 8:42	1.84	7.48	0.84	
5/15/24 8:43	1.86	7.46	4.43	
5/15/24 8:44	1.86	7.45	1.32	
5/15/24 8:45	1.88	7.45	2.21	
5/15/24 8:46	1.89	7.45	3.92	
5/15/24 8:47	1.87	7.46	0.77	
5/15/24 8:48	1.83	7.48	1.13	
5/15/24 8:49	1.83	7.47	2.87	
5/15/24 8:50	1.87	7.47	5.49	
5/15/24 8:51	1.84	7.48	6.79	
5/15/24 8:52	1.84	7.48	6.18	
5/15/24 8:53	1.84	7.48	6.51	
5/15/24 8:54	1.84	7.48	7.27	
5/15/24 8:55	1.85	7.47	6.99	
5/15/24 8:56	1.87	7.46	5.54	
5/15/24 8:57	1.86	7.47	5.53	
5/15/24 8:58	1.88	7.45	5.36	
5/15/24 8:59	1.88	7.46	5.08	
5/15/24 9:00	1.89	7.47	1.52	
5/15/24 9:01	1.89	7.47	0.00	Zero
5/15/24 9:02	1.88	7.48	5.02	
5/15/24 9:03	1.85	7.49	14.79	
5/15/24 9:04	1.85	7.49	15.24	Mid
5/15/24 9:05	1.84	7.50	9.28	
5/15/24 9:06	1.86	7.49	0.01	
5/15/24 9:07	1.88	7.48	0.00	
5/15/24 9:08	1.88	7.49	0.00	
5/15/24 9:09	1.89	7.47	0.01	
5/15/24 9:10	1.89	7.48	0.00	
5/15/24 9:11	1.88	7.47	0.02	
5/15/24 9:12	1.85	7.48	0.00	
5/15/24 9:13	1.88	7.48	0.00	Run 1/ Strat Check
5/15/24 9:14	1.89	7.47	0.00	
5/15/24 9:15	1.87	7.49	0.00	
5/15/24 9:16	1.96	7.44	0.00	
5/15/24 9:17	1.90	7.49	0.00	
5/15/24 9:18	1.88	7.50	0.00	
5/15/24 9:19	1.86	7.52	0.00	
5/15/24 9:20	1.88	7.51	0.02	



BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 9:21	1.87	7.51	0.00	
5/15/24 9:22	1.87	7.51	0.00	
5/15/24 9:23	1.87	7.52	0.04	
5/15/24 9:24	1.88	7.50	0.00	
5/15/24 9:25	1.89	7.50	0.26	
5/15/24 9:26	1.90	7.50	0.00	
5/15/24 9:27	1.92	7.50	0.04	
5/15/24 9:28	1.90	7.51	0.04	
5/15/24 9:29	1.92	7.49	0.02	
5/15/24 9:30	1.90	7.52	0.03	
5/15/24 9:31	1.88	7.53	0.00	
5/15/24 9:32	1.91	7.51	0.00	
5/15/24 9:33	1.90	7.52	0.00	
5/15/24 9:34	1.89	7.53	0.02	
5/15/24 9:35	1.90	7.53	0.00	
5/15/24 9:36	1.94	7.50	0.00	
5/15/24 9:37	1.92	7.52	0.01	
5/15/24 9:38	1.97	7.49	0.00	
5/15/24 9:39	1.91	7.52	0.00	
5/15/24 9:40	1.93	7.51	0.00	
5/15/24 9:41	1.91	7.52	0.00	
5/15/24 9:42	1.91	7.52	0.00	
5/15/24 9:43	1.90	7.52	0.01	
5/15/24 9:44	1.89	7.53	0.03	
5/15/24 9:45	1.91	7.52	0.00	
5/15/24 9:46	1.91	7.52	0.09	
5/15/24 9:47	1.92	7.52	0.00	
5/15/24 9:48	1.92	7.51	0.02	
5/15/24 9:49	1.92	7.51	0.00	
5/15/24 9:50	1.93	7.51	0.00	
5/15/24 9:51	1.91	7.52	0.00	
5/15/24 9:52	1.91	7.52	0.00	
5/15/24 9:53	1.91	7.52	0.04	
5/15/24 9:54	1.93	7.51	0.00	
5/15/24 9:55	1.89	7.54	0.03	
5/15/24 9:56	1.90	7.52	0.00	
5/15/24 9:57	1.89	7.53	0.00	
5/15/24 9:58	1.88	7.53	0.00	
5/15/24 9:59	1.88	7.53	0.00	
5/15/24 10:00	1.88	7.53	0.00	
5/15/24 10:01	1.88	7.53	0.00	
5/15/24 10:02	1.84	7.55	0.04	
5/15/24 10:03	1.86	7.54	0.19	
5/15/24 10:04	1.87	7.53	1.05	
5/15/24 10:05	1.88	7.52	1.34	
5/15/24 10:06	1.89	7.51	2.29	
5/15/24 10:07	1.91	7.49	0.00	
5/15/24 10:08	1.88	7.52	0.00	
5/15/24 10:09	1.86	7.53	7.40	
5/15/24 10:10	1.88	7.52	14.77	THC Hourly Drift Check
5/15/24 10:11	1.87	7.53	15.29	
5/15/24 10:12	1.84	7.54	9.66	
5/15/24 10:13	1.85	7.54	0.00	
5/15/24 10:14	1.87	7.52	0.12	
5/15/24 10:15	1.85	7.54	0.00	
5/15/24 10:16	1.86	7.53	0.00	
5/15/24 10:17	1.89	7.52	0.06	
5/15/24 10:18	1.86	7.52	0.00	
5/15/24 10:19	1.86	7.52	0.06	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 10:20	1.88	7.51	0.10	
5/15/24 10:21	1.89	7.50	0.11	
5/15/24 10:22	1.86	7.51	0.00	
5/15/24 10:23	1.87	7.51	0.00	
5/15/24 10:24	1.85	7.51	0.12	
5/15/24 10:25	1.84	7.52	0.00	
5/15/24 10:26	1.84	7.50	0.10	
5/15/24 10:27	1.83	7.50	0.00	
5/15/24 10:28	1.89	7.47	0.15	
5/15/24 10:29	1.87	7.48	0.00	
5/15/24 10:30	1.91	7.47	0.03	
5/15/24 10:31	1.88	7.48	0.06	
5/15/24 10:32	1.88	7.48	0.00	
5/15/24 10:33	1.88	7.49	0.10	
5/15/24 10:34	1.86	7.50	0.00	
5/15/24 10:35	1.87	7.49	0.12	
5/15/24 10:36	1.88	7.48	0.00	
5/15/24 10:37	1.83	7.52	0.00	
5/15/24 10:38	1.88	7.48	0.09	
5/15/24 10:39	1.85	7.52	0.00	
5/15/24 10:40	1.89	7.49	0.11	
5/15/24 10:41	1.86	7.51	0.00	
5/15/24 10:42	1.85	7.51	0.19	
5/15/24 10:43	1.86	7.50	0.00	
5/15/24 10:44	1.87	7.49	0.00	
5/15/24 10:45	1.86	7.50	0.15	
5/15/24 10:46	1.84	7.51	0.00	
5/15/24 10:47	1.86	7.52	0.07	
5/15/24 10:48	1.88	7.51	0.00	
5/15/24 10:49	1.89	7.49	0.07	
5/15/24 10:50	1.86	7.50	0.00	
5/15/24 10:51	1.85	7.51	0.02	
5/15/24 10:52	1.86	7.50	0.07	
5/15/24 10:53	1.83	7.53	0.00	
5/15/24 10:54	1.87	7.50	0.19	
5/15/24 10:55	1.85	7.52	0.00	
5/15/24 10:56	1.87	7.50	0.09	
5/15/24 10:57	1.88	7.50	0.00	
5/15/24 10:58	1.93	7.48	0.01	
5/15/24 10:59	1.88	7.50	0.13	
5/15/24 11:00	1.88	7.49	0.01	
5/15/24 11:01	1.89	7.48	0.11	
5/15/24 11:02	1.87	7.50	0.00	
5/15/24 11:03	1.87	7.50	0.14	
5/15/24 11:04	1.87	7.51	0.00	
5/15/24 11:05	1.83	7.53	0.06	
5/15/24 11:06	1.85	7.52	0.01	
5/15/24 11:07	1.86	7.51	0.00	
5/15/24 11:08	1.87	7.51	0.07	
5/15/24 11:09	1.87	7.51	0.00	
5/15/24 11:10	1.87	7.52	0.07	
5/15/24 11:11	1.88	7.51	0.00	
5/15/24 11:12	1.88	7.49	0.13	
5/15/24 11:13	1.90	7.49	0.00	
5/15/24 11:14	1.91	7.48	0.01	THC Hourly Drift Check
5/15/24 11:15	1.89	7.52	0.09	
5/15/24 11:16	1.88	7.51	0.00	
5/15/24 11:17	1.82	7.53	8.10	
5/15/24 11:18	1.84	7.52	15.30	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 11:19	1.83	7.52	15.43	
5/15/24 11:20	1.87	7.50	3.27	
5/15/24 11:21	1.84	7.51	0.00	
5/15/24 11:22	1.89	7.48	0.15	
5/15/24 11:23	1.85	7.51	0.00	
5/15/24 11:24	1.89	7.48	0.15	
5/15/24 11:25	1.88	7.50	0.00	
5/15/24 11:26	1.91	7.48	0.08	
5/15/24 11:27	1.87	7.50	0.00	
5/15/24 11:28	1.85	7.51	0.00	
5/15/24 11:29	1.84	7.51	0.20	
5/15/24 11:30	1.85	7.51	0.00	
5/15/24 11:31	1.83	7.52	0.18	
5/15/24 11:32	1.84	7.52	0.00	
5/15/24 11:33	1.84	7.52	0.26	
5/15/24 11:34	1.86	7.52	0.00	
5/15/24 11:35	1.85	7.51	0.00	
5/15/24 11:36	1.87	7.51	0.14	
5/15/24 11:37	1.84	7.52	0.00	
5/15/24 11:38	1.83	7.52	0.02	
5/15/24 11:39	1.85	7.52	0.00	
5/15/24 11:40	1.86	7.52	0.05	
5/15/24 11:41	1.86	7.52	0.00	
5/15/24 11:42	1.86	7.53	0.00	
5/15/24 11:43	1.86	7.52	0.02	
5/15/24 11:44	1.82	7.54	0.00	
5/15/24 11:45	1.82	7.54	0.04	
5/15/24 11:46	1.84	7.53	0.00	
5/15/24 11:47	1.84	7.53	0.01	
5/15/24 11:48	1.83	7.53	0.00	
5/15/24 11:49	1.85	7.51	0.00	
5/15/24 11:50	1.84	7.53	0.01	
5/15/24 11:51	1.82	7.54	0.00	
5/15/24 11:52	1.85	7.52	0.07	
5/15/24 11:53	1.84	7.53	0.00	
5/15/24 11:54	1.87	7.51	0.01	
5/15/24 11:55	1.83	7.53	0.00	
5/15/24 11:56	1.86	7.52	0.02	
5/15/24 11:57	1.85	7.53	0.01	
5/15/24 11:58	1.84	7.54	0.00	
5/15/24 11:59	1.86	7.52	0.07	
5/15/24 12:00	1.84	7.54	0.00	
5/15/24 12:01	1.84	7.53	0.00	
5/15/24 12:02	1.84	7.53	0.00	
5/15/24 12:03	1.83	7.53	0.02	
5/15/24 12:04	1.87	7.50	0.00	
5/15/24 12:05	1.84	7.53	0.00	
5/15/24 12:06	1.82	7.53	0.03	
5/15/24 12:07	1.86	7.52	0.00	
5/15/24 12:08	1.85	7.52	0.02	
5/15/24 12:09	1.80	7.55	0.00	
5/15/24 12:10	1.79	7.55	0.06	
5/15/24 12:11	1.80	7.55	0.00	
5/15/24 12:12	1.80	7.55	0.01	
5/15/24 12:13	1.82	7.54	0.02	
5/15/24 12:14	1.85	7.53	0.00	
5/15/24 12:15	1.87	7.52	0.01	
5/15/24 12:16	1.90	7.51	0.00	
5/15/24 12:17	1.86	7.53	0.03	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 12:18	1.81	7.55	0.00	THC Hourly Drift Check
5/15/24 12:19	1.83	7.55	0.56	
5/15/24 12:20	1.83	7.55	0.05	
5/15/24 12:21	1.83	7.54	0.00	
5/15/24 12:22	1.78	7.57	6.76	
5/15/24 12:23	1.80	7.55	15.26	
5/15/24 12:24	1.78	7.57	9.83	
5/15/24 12:25	1.84	7.53	0.00	
5/15/24 12:26	1.86	7.52	0.06	
5/15/24 12:27	1.85	7.52	0.04	
5/15/24 12:28	1.86	7.51	0.00	
5/15/24 12:29	1.85	7.52	0.00	
5/15/24 12:30	1.80	7.55	0.00	
5/15/24 12:31	1.81	7.55	0.02	
5/15/24 12:32	1.84	7.54	0.00	
5/15/24 12:33	1.78	7.57	0.03	
5/15/24 12:34	1.82	7.54	0.01	
5/15/24 12:35	1.79	7.56	0.00	
5/15/24 12:36	1.78	7.57	0.04	
5/15/24 12:37	1.82	7.55	0.00	
5/15/24 12:38	1.83	7.55	0.07	
5/15/24 12:39	1.81	7.55	0.00	
5/15/24 12:40	1.82	7.54	0.00	
5/15/24 12:41	1.81	7.53	0.01	
5/15/24 12:42	1.82	7.53	0.00	
5/15/24 12:43	1.83	7.53	0.09	
5/15/24 12:44	1.85	7.53	0.00	
5/15/24 12:45	1.79	7.55	0.14	
5/15/24 12:46	1.82	7.54	0.00	
5/15/24 12:47	1.83	7.53	0.08	
5/15/24 12:48	1.82	7.55	0.00	
5/15/24 12:49	1.85	7.53	0.02	
5/15/24 12:50	1.85	7.53	0.18	
5/15/24 12:51	1.84	7.54	0.00	
5/15/24 12:52	1.81	7.57	0.10	
5/15/24 12:53	1.84	7.56	0.00	
5/15/24 12:54	1.88	7.55	0.06	
5/15/24 12:55	1.86	7.55	0.00	
5/15/24 12:56	1.83	7.55	0.00	
5/15/24 12:57	1.82	7.56	0.08	
5/15/24 12:58	1.83	7.56	0.00	
5/15/24 12:59	1.84	7.55	0.14	
5/15/24 13:00	1.85	7.53	0.00	
5/15/24 13:01	1.84	7.54	0.13	
5/15/24 13:02	1.80	7.57	0.00	
5/15/24 13:03	1.81	7.56	0.00	
5/15/24 13:04	1.87	7.53	0.07	
5/15/24 13:05	1.85	7.55	0.00	
5/15/24 13:06	1.83	7.54	0.07	
5/15/24 13:07	1.80	7.56	0.00	
5/15/24 13:08	1.81	7.56	0.07	
5/15/24 13:09	1.83	7.55	0.00	
5/15/24 13:10	1.81	7.56	0.00	
5/15/24 13:11	1.82	7.55	0.05	
5/15/24 13:12	1.83	7.54	0.00	
5/15/24 13:13	1.80	7.56	0.04	
5/15/24 13:14	1.80	7.56	0.00	
5/15/24 13:15	1.86	7.53	0.15	
5/15/24 13:16	1.86	7.53	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 13:17	1.88	7.53	0.00	
5/15/24 13:18	1.84	7.55	0.04	
5/15/24 13:19	1.84	7.55	0.00	
5/15/24 13:20	1.88	7.53	0.04	
5/15/24 13:21	1.84	7.55	0.00	End Run 1
5/15/24 13:22	1.88	7.52	0.13	
5/15/24 13:23	1.92	7.49	0.00	
5/15/24 13:24	1.87	7.52	0.01	
5/15/24 13:25	1.84	7.54	0.09	
5/15/24 13:26	1.83	7.54	0.01	
5/15/24 13:27	1.82	7.55	0.08	
5/15/24 13:28	2.13	7.51	0.00	
5/15/24 13:29	1.25	1.13	0.04	
5/15/24 13:30	0.00	0.03	0.00	
5/15/24 13:31	0.00	0.00	0.00	
5/15/24 13:32	0.00	0.00	0.09	Bias Run 1
5/15/24 13:33	0.00	0.00	0.00	Zeros
5/15/24 13:34	2.91	2.49	0.06	
5/15/24 13:35	10.96	10.66	0.00	
5/15/24 13:36	10.98	10.74	0.05	Mids
5/15/24 13:37	8.70	9.92	0.00	
5/15/24 13:38	1.83	7.41	0.04	
5/15/24 13:39	1.82	7.40	63.02	
5/15/24 13:40	1.82	7.41	74.69	
5/15/24 13:41	1.80	7.41	75.04	
5/15/24 13:42	1.79	7.43	74.57	
5/15/24 13:43	1.82	7.41	5.95	
5/15/24 13:44	1.83	7.40	0.00	
5/15/24 13:45	1.83	7.40	0.00	
5/15/24 13:46	1.81	7.41	0.10	
5/15/24 13:47	1.82	7.40	0.00	Zero
5/15/24 13:48	1.85	7.40	4.76	
5/15/24 13:49	1.83	7.40	6.80	
5/15/24 13:50	1.85	7.39	13.83	
5/15/24 13:51	1.86	7.38	15.12	Mid
5/15/24 13:52	1.85	7.39	9.52	
5/15/24 13:53	1.85	7.39	0.06	
5/15/24 13:54	1.86	7.39	0.00	
5/15/24 13:55	1.87	7.39	0.09	
5/15/24 13:56	1.86	7.40	0.00	
5/15/24 13:57	1.82	7.41	0.07	
5/15/24 13:58	1.84	7.40	0.00	
5/15/24 13:59	1.85	7.40	0.00	
5/15/24 14:00	1.85	7.40	0.04	
5/15/24 14:01	1.84	7.41	0.00	
5/15/24 14:02	1.84	7.40	0.10	Run 2
5/15/24 14:03	1.84	7.41	0.00	
5/15/24 14:04	1.86	7.40	0.01	
5/15/24 14:05	1.85	7.40	0.13	
5/15/24 14:06	1.85	7.41	0.00	
5/15/24 14:07	1.82	7.42	0.10	
5/15/24 14:08	1.81	7.42	0.00	
5/15/24 14:09	1.83	7.42	0.13	
5/15/24 14:10	1.86	7.41	0.00	
5/15/24 14:11	1.81	7.43	0.00	
5/15/24 14:12	1.81	7.42	0.11	
5/15/24 14:13	1.83	7.42	0.04	
5/15/24 14:14	1.84	7.42	0.07	
5/15/24 14:15	1.82	7.43	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 14:16	1.82	7.42	0.10	
5/15/24 14:17	1.79	7.43	0.00	
5/15/24 14:18	1.88	7.41	0.00	
5/15/24 14:19	1.84	7.42	0.03	
5/15/24 14:20	1.86	7.41	0.00	
5/15/24 14:21	1.86	7.41	0.12	
5/15/24 14:22	1.89	7.40	0.00	
5/15/24 14:23	1.88	7.41	0.10	
5/15/24 14:24	1.87	7.41	0.01	
5/15/24 14:25	1.89	7.41	0.00	
5/15/24 14:26	1.90	7.40	0.07	
5/15/24 14:27	1.85	7.43	0.00	
5/15/24 14:28	1.86	7.42	0.11	
5/15/24 14:29	1.85	7.43	0.00	
5/15/24 14:30	1.86	7.42	0.10	
5/15/24 14:31	1.86	7.44	0.00	
5/15/24 14:32	1.85	7.43	0.00	
5/15/24 14:33	1.84	7.44	0.18	
5/15/24 14:34	1.83	7.43	0.00	
5/15/24 14:35	1.86	7.42	0.06	
5/15/24 14:36	1.83	7.43	0.00	
5/15/24 14:37	1.85	7.42	0.08	
5/15/24 14:38	1.89	7.41	0.01	
5/15/24 14:39	1.86	7.44	0.00	
5/15/24 14:40	1.80	7.45	0.03	
5/15/24 14:41	1.81	7.44	0.00	
5/15/24 14:42	1.83	7.44	0.08	
5/15/24 14:43	1.81	7.44	0.00	
5/15/24 14:44	1.81	7.44	0.04	
5/15/24 14:45	1.86	7.42	0.05	
5/15/24 14:46	1.84	7.43	0.00	
5/15/24 14:47	1.79	7.45	0.07	
5/15/24 14:48	1.83	7.43	0.00	
5/15/24 14:49	1.82	7.44	0.13	
5/15/24 14:50	1.84	7.42	0.00	
5/15/24 14:51	1.85	7.42	0.00	
5/15/24 14:52	1.86	7.41	0.07	
5/15/24 14:53	1.86	7.41	0.00	
5/15/24 14:54	1.82	7.43	0.12	
5/15/24 14:55	1.85	7.41	0.00	
5/15/24 14:56	1.75	7.48	0.07	
5/15/24 14:57	1.86	7.42	1.25	
5/15/24 14:58	1.90	7.41	0.01	
5/15/24 14:59	1.86	7.42	0.09	
5/15/24 15:00	1.82	7.44	0.00	THC Hourly Drift Check
5/15/24 15:01	1.85	7.43	7.62	
5/15/24 15:02	1.83	7.42	8.26	
5/15/24 15:03	1.85	7.42	11.15	
5/15/24 15:04	1.85	7.42	14.89	
5/15/24 15:05	1.80	7.44	8.93	
5/15/24 15:06	1.82	7.43	0.09	
5/15/24 15:07	1.79	7.44	0.00	
5/15/24 15:08	1.88	7.39	0.06	
5/15/24 15:09	1.88	7.40	0.00	
5/15/24 15:10	1.84	7.42	0.06	
5/15/24 15:11	1.87	7.42	0.00	
5/15/24 15:12	1.84	7.42	0.00	
5/15/24 15:13	1.83	7.44	0.06	
5/15/24 15:14	1.85	7.42	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 15:15	1.82	7.44	0.07	
5/15/24 15:16	1.82	7.44	0.00	
5/15/24 15:17	1.85	7.42	0.01	
5/15/24 15:18	1.87	7.42	0.06	
5/15/24 15:19	1.87	7.41	0.00	
5/15/24 15:20	1.82	7.42	0.07	
5/15/24 15:21	1.81	7.42	0.01	
5/15/24 15:22	1.84	7.42	0.08	
5/15/24 15:23	1.86	7.41	0.00	
5/15/24 15:24	1.88	7.41	0.01	
5/15/24 15:25	1.83	7.43	0.02	
5/15/24 15:26	1.84	7.43	0.00	
5/15/24 15:27	1.81	7.44	0.04	
5/15/24 15:28	1.78	7.46	0.00	
5/15/24 15:29	1.80	7.45	0.05	
5/15/24 15:30	1.85	7.43	0.00	
5/15/24 15:31	1.86	7.42	0.00	
5/15/24 15:32	1.86	7.42	0.03	
5/15/24 15:33	1.89	7.42	0.00	
5/15/24 15:34	1.86	7.41	0.03	
5/15/24 15:35	1.86	7.41	0.00	
5/15/24 15:36	1.90	7.40	0.04	
5/15/24 15:37	1.88	7.41	0.00	
5/15/24 15:38	1.83	7.44	0.02	
5/15/24 15:39	1.88	7.42	0.13	
5/15/24 15:40	1.86	7.43	0.00	
5/15/24 15:41	1.83	7.43	0.10	
5/15/24 15:42	1.81	7.44	0.00	
5/15/24 15:43	1.84	7.43	0.09	
5/15/24 15:44	1.82	7.44	0.02	
5/15/24 15:45	1.84	7.43	0.00	
5/15/24 15:46	1.85	7.43	0.09	
5/15/24 15:47	1.86	7.42	0.00	
5/15/24 15:48	1.86	7.41	0.11	
5/15/24 15:49	1.87	7.41	0.00	
5/15/24 15:50	1.85	7.42	0.07	
5/15/24 15:51	1.82	7.43	0.00	
5/15/24 15:52	1.81	7.43	0.00	
5/15/24 15:53	1.83	7.43	0.03	
5/15/24 15:54	1.82	7.43	0.00	
5/15/24 15:55	1.84	7.43	0.05	
5/15/24 15:56	1.89	7.41	0.00	
5/15/24 15:57	1.88	7.41	0.04	
5/15/24 15:58	1.85	7.42	0.00	
5/15/24 15:59	1.82	7.45	0.00	
5/15/24 16:00	1.86	7.42	0.07	
5/15/24 16:01	1.86	7.42	0.84	
5/15/24 16:02	1.84	7.43	0.10	
5/15/24 16:03	1.81	7.44	0.00	THC Hourly Drift Check
5/15/24 16:04	1.81	7.45	7.66	
5/15/24 16:05	1.80	7.45	14.76	
5/15/24 16:06	1.82	7.42	15.34	
5/15/24 16:07	1.81	7.43	15.33	
5/15/24 16:08	1.82	7.42	14.99	
5/15/24 16:09	1.84	7.41	14.67	
5/15/24 16:10	1.83	7.42	0.10	
5/15/24 16:11	1.84	7.41	0.00	
5/15/24 16:12	1.82	7.42	0.01	
5/15/24 16:13	1.80	7.43	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 16:14	1.78	7.44	0.08	
5/15/24 16:15	1.81	7.41	0.00	
5/15/24 16:16	1.82	7.41	0.09	
5/15/24 16:17	1.85	7.39	0.00	
5/15/24 16:18	1.82	7.41	0.00	
5/15/24 16:19	1.83	7.40	0.06	
5/15/24 16:20	1.84	7.39	0.00	
5/15/24 16:21	1.82	7.41	0.03	
5/15/24 16:22	1.83	7.40	0.00	
5/15/24 16:23	1.82	7.41	0.11	
5/15/24 16:24	1.85	7.40	0.01	
5/15/24 16:25	1.86	7.40	0.00	
5/15/24 16:26	1.84	7.41	0.05	
5/15/24 16:27	1.82	7.42	0.00	
5/15/24 16:28	1.79	7.43	0.07	
5/15/24 16:29	1.81	7.42	0.00	
5/15/24 16:30	1.81	7.42	0.03	
5/15/24 16:31	1.82	7.42	0.02	
5/15/24 16:32	1.83	7.42	0.00	
5/15/24 16:33	1.82	7.42	0.08	
5/15/24 16:34	1.82	7.42	0.00	
5/15/24 16:35	1.81	7.43	0.04	
5/15/24 16:36	1.86	7.40	0.00	
5/15/24 16:37	1.85	7.40	0.05	
5/15/24 16:38	1.85	7.40	0.06	
5/15/24 16:39	1.84	7.40	0.00	
5/15/24 16:40	1.83	7.41	0.11	
5/15/24 16:41	1.84	7.40	0.00	
5/15/24 16:42	1.81	7.41	0.03	
5/15/24 16:43	1.85	7.39	0.00	
5/15/24 16:44	1.84	7.40	0.02	
5/15/24 16:45	1.86	7.39	0.00	
5/15/24 16:46	1.85	7.39	0.00	
5/15/24 16:47	1.85	7.40	0.02	
5/15/24 16:48	1.83	7.41	0.00	
5/15/24 16:49	1.83	7.42	0.08	
5/15/24 16:50	1.80	7.43	0.00	
5/15/24 16:51	1.81	7.43	0.01	
5/15/24 16:52	1.85	7.41	0.04	
5/15/24 16:53	1.87	7.40	0.00	
5/15/24 16:54	1.86	7.40	0.07	
5/15/24 16:55	1.83	7.41	0.00	
5/15/24 16:56	1.85	7.40	0.02	
5/15/24 16:57	1.79	7.46	0.00	
5/15/24 16:58	1.88	7.40	0.00	
5/15/24 16:59	1.85	7.42	0.01	
5/15/24 17:00	1.83	7.43	0.00	
5/15/24 17:01	1.88	7.40	0.03	
5/15/24 17:02	1.83	7.43	0.00	
5/15/24 17:03	1.85	7.42	0.01	
5/15/24 17:04	1.83	7.43	0.00	
5/15/24 17:05	1.83	7.44	0.00	
5/15/24 17:06	1.85	7.43	0.04	
5/15/24 17:07	1.87	7.41	0.00	
5/15/24 17:08	1.86	7.42	0.01	
5/15/24 17:09	1.85	7.42	0.00	
5/15/24 17:10	1.86	7.40	0.00	
5/15/24 17:11	1.87	7.40	0.03	
5/15/24 17:12	1.85	7.41	0.00	



BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 17:13	1.85	7.40	0.02	
5/15/24 17:14	1.84	7.41	0.00	
5/15/24 17:15	1.86	7.41	0.05	
5/15/24 17:16	1.83	7.43	0.43	
5/15/24 17:17	1.85	7.42	0.03	
5/15/24 17:18	1.82	7.43	0.00	
5/15/24 17:19	1.82	7.43	0.00	
5/15/24 17:20	1.84	7.42	0.03	
5/15/24 17:21	1.85	7.41	0.00	THC Hourly Drift Check
5/15/24 17:22	1.84	7.42	0.04	
5/15/24 17:23	1.84	7.43	13.57	
5/15/24 17:24	1.85	7.42	14.95	
5/15/24 17:25	1.80	7.44	15.21	
5/15/24 17:26	1.82	7.42	3.09	
5/15/24 17:27	1.84	7.41	0.01	
5/15/24 17:28	1.84	7.42	0.00	
5/15/24 17:29	1.85	7.40	0.00	
5/15/24 17:30	1.88	7.39	0.00	
5/15/24 17:31	1.82	7.44	0.00	
5/15/24 17:32	1.83	7.42	0.02	
5/15/24 17:33	1.81	7.44	0.00	
5/15/24 17:34	1.84	7.42	0.01	
5/15/24 17:35	1.84	7.42	0.00	
5/15/24 17:36	1.85	7.42	0.07	
5/15/24 17:37	1.84	7.42	0.00	
5/15/24 17:38	1.85	7.41	0.00	
5/15/24 17:39	1.85	7.41	0.01	
5/15/24 17:40	1.87	7.40	0.00	
5/15/24 17:41	1.84	7.42	0.01	
5/15/24 17:42	1.83	7.42	0.00	
5/15/24 17:43	1.80	7.43	0.00	
5/15/24 17:44	1.82	7.42	0.00	
5/15/24 17:45	1.82	7.43	0.00	
5/15/24 17:46	1.83	7.43	0.00	
5/15/24 17:47	1.82	7.43	0.00	
5/15/24 17:48	1.84	7.41	0.00	
5/15/24 17:49	1.84	7.41	0.00	
5/15/24 17:50	1.85	7.41	0.00	
5/15/24 17:51	1.83	7.42	0.00	
5/15/24 17:52	1.85	7.42	0.00	
5/15/24 17:53	1.84	7.43	0.02	
5/15/24 17:54	1.82	7.44	0.00	
5/15/24 17:55	1.84	7.43	0.12	
5/15/24 17:56	1.83	7.44	0.00	
5/15/24 17:57	1.82	7.44	0.00	
5/15/24 17:58	1.83	7.44	0.02	
5/15/24 17:59	1.85	7.42	0.00	
5/15/24 18:00	1.83	7.43	0.00	
5/15/24 18:01	1.85	7.42	0.00	
5/15/24 18:02	1.84	7.43	0.00	
5/15/24 18:03	1.85	7.41	0.01	
5/15/24 18:04	1.85	7.40	0.00	
5/15/24 18:05	1.84	7.41	0.01	
5/15/24 18:06	1.87	7.39	0.00	
5/15/24 18:07	1.85	7.41	0.01	
5/15/24 18:08	1.82	7.43	0.00	
5/15/24 18:09	1.81	7.43	0.00	
5/15/24 18:10	1.80	7.43	0.00	
5/15/24 18:11	1.80	7.44	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/15/24 18:12	1.82	7.43	1.16	
5/15/24 18:13	1.82	7.43	0.05	Bias Run 2
5/15/24 18:14	1.84	7.41	0.00	Zero
5/15/24 18:15	1.84	7.42	0.10	
5/15/24 18:16	1.83	7.43	14.31	
5/15/24 18:17	1.83	7.43	14.78	
5/15/24 18:18	1.82	7.44	15.35	
5/15/24 18:19	1.84	7.41	15.27	Mid
5/15/24 18:20	2.59	7.26	10.20	
5/15/24 18:21	0.08	0.10	0.15	
5/15/24 18:22	0.00	0.00	0.16	Zeros
5/15/24 18:23	3.03	2.67	33.52	
5/15/24 18:24	10.95	10.72	71.96	
5/15/24 18:25	10.97	10.78	72.08	Mids
5/15/24 18:26	7.24	9.41	72.41	
5/15/24 18:27	1.80	7.46	12.65	
5/15/24 18:28	1.82	7.44	0.00	
5/15/24 18:29	1.81	7.45	0.01	
5/15/24 18:30	1.81	7.45	0.00	
5/15/24 18:31	1.82	7.45	0.01	
5/15/24 18:32	1.82	7.45	0.00	
5/15/24 18:33	1.81	7.46	0.02	
5/16/24 6:25	2.70	7.10	0.00	Next Day (Start with Run 3)
5/16/24 6:26	0.25	0.14	0.01	Initial Cals (CALS 3)
5/16/24 6:27	0.00	0.01	0.00	Zeros
5/16/24 6:28	1.33	0.97	0.02	
5/16/24 6:29	22.94	21.89	0.00	
5/16/24 6:30	23.01	22.91	0.01	Highs
5/16/24 6:31	22.66	22.55	0.00	
5/16/24 6:32	10.85	10.69	0.00	
5/16/24 6:33	10.96	10.99	2.90	Mids
5/16/24 6:34	9.35	9.38	75.27	
5/16/24 6:35	0.00	0.12	76.25	Initial Bias (run 3)
5/16/24 6:36	0.00	0.06	76.01	Zeros
5/16/24 6:37	2.74	2.69	72.89	
5/16/24 6:38	10.94	10.91	28.12	Mids
5/16/24 6:39	8.87	10.20	1.59	
5/16/24 6:40	1.78	7.61	0.76	
5/16/24 6:41	1.79	7.59	0.20	Initial THC CAL
5/16/24 6:42	1.77	7.60	0.11	Zero
5/16/24 6:43	1.76	7.61	0.00	
5/16/24 6:44	1.73	7.62	17.08	
5/16/24 6:45	1.74	7.63	26.96	
5/16/24 6:46	1.76	7.60	25.38	High
5/16/24 6:47	1.76	7.61	18.79	
5/16/24 6:48	1.77	7.60	9.06	Low
5/16/24 6:49	1.78	7.60	10.20	
5/16/24 6:50	1.78	7.59	17.67	
5/16/24 6:51	1.75	7.61	15.41	
5/16/24 6:52	1.74	7.62	15.08	Mid
5/16/24 6:53	1.73	7.62	10.63	
5/16/24 6:54	1.74	7.62	0.00	Zero
5/16/24 6:55	1.78	7.59	2.93	
5/16/24 6:56	1.77	7.59	15.03	Mid
5/16/24 6:57	1.74	7.61	11.17	
5/16/24 6:58	1.76	7.60	0.00	
5/16/24 6:59	1.73	7.61	0.00	
5/16/24 7:00	1.75	7.59	0.00	
5/16/24 7:01	1.75	7.58	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 7:02	1.74	7.59	0.00	
5/16/24 7:03	1.81	7.55	0.81	
5/16/24 7:04	1.79	7.54	0.14	
5/16/24 7:05	1.79	7.53	0.00	
5/16/24 7:06	1.80	7.52	0.00	Run 3 Start
5/16/24 7:07	1.79	7.51	0.00	
5/16/24 7:08	1.74	7.53	0.01	
5/16/24 7:09	1.74	7.53	0.00	
5/16/24 7:10	1.74	7.54	0.01	
5/16/24 7:11	1.77	7.52	0.00	
5/16/24 7:12	1.73	7.55	0.00	
5/16/24 7:13	1.76	7.53	0.00	
5/16/24 7:14	1.75	7.54	0.00	
5/16/24 7:15	1.76	7.54	0.04	
5/16/24 7:16	1.76	7.53	0.00	
5/16/24 7:17	1.76	7.53	0.04	
5/16/24 7:18	1.76	7.53	0.15	
5/16/24 7:19	1.75	7.55	0.00	
5/16/24 7:20	1.73	7.56	0.03	
5/16/24 7:21	1.78	7.53	0.00	
5/16/24 7:22	1.78	7.52	0.05	
5/16/24 7:23	1.76	7.54	0.00	
5/16/24 7:24	1.76	7.53	0.00	
5/16/24 7:25	1.78	7.53	0.00	
5/16/24 7:26	1.81	7.52	0.00	
5/16/24 7:27	1.76	7.55	0.01	
5/16/24 7:28	1.74	7.56	0.00	
5/16/24 7:29	1.72	7.57	0.01	
5/16/24 7:30	1.74	7.56	0.00	
5/16/24 7:31	1.75	7.56	0.00	
5/16/24 7:32	1.73	7.57	0.02	
5/16/24 7:33	1.73	7.58	0.00	
5/16/24 7:34	1.72	7.59	0.01	
5/16/24 7:35	1.75	7.57	0.00	
5/16/24 7:36	1.76	7.57	0.00	
5/16/24 7:37	1.74	7.58	0.01	
5/16/24 7:38	1.77	7.57	0.18	
5/16/24 7:39	1.75	7.58	0.48	
5/16/24 7:40	1.73	7.60	0.00	
5/16/24 7:41	1.74	7.59	0.02	
5/16/24 7:42	1.74	7.59	0.00	
5/16/24 7:43	1.74	7.59	0.02	
5/16/24 7:44	1.75	7.60	0.00	
5/16/24 7:45	1.75	7.60	0.00	
5/16/24 7:46	1.74	7.60	0.04	
5/16/24 7:47	1.73	7.61	0.00	
5/16/24 7:48	1.76	7.59	0.00	
5/16/24 7:49	1.72	7.61	0.00	
5/16/24 7:50	1.76	7.60	0.00	
5/16/24 7:51	1.74	7.62	0.01	
5/16/24 7:52	1.75	7.60	0.00	
5/16/24 7:53	1.74	7.62	0.02	
5/16/24 7:54	1.76	7.60	0.00	
5/16/24 7:55	1.73	7.61	0.01	
5/16/24 7:56	1.72	7.62	0.00	
5/16/24 7:57	1.74	7.61	0.00	
5/16/24 7:58	1.76	7.60	0.01	
5/16/24 7:59	1.76	7.59	0.89	
5/16/24 8:00	1.72	7.62	0.02	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 8:01	1.79	7.58	5.10	
5/16/24 8:02	1.76	7.60	14.22	
5/16/24 8:03	1.73	7.62	15.27	
5/16/24 8:04	1.74	7.62	8.54	
5/16/24 8:05	1.71	7.64	0.01	
5/16/24 8:06	1.75	7.61	0.00	
5/16/24 8:07	1.78	7.61	0.00	
5/16/24 8:08	1.77	7.62	0.00	
5/16/24 8:09	1.73	7.63	0.01	
5/16/24 8:10	1.75	7.62	0.00	
5/16/24 8:11	1.71	7.64	0.00	
5/16/24 8:12	1.76	7.61	0.02	
5/16/24 8:13	1.77	7.62	0.00	
5/16/24 8:14	1.77	7.62	0.00	
5/16/24 8:15	1.74	7.63	0.00	
5/16/24 8:16	1.71	7.65	0.00	
5/16/24 8:17	1.74	7.63	0.00	
5/16/24 8:18	1.74	7.63	0.00	
5/16/24 8:19	1.72	7.63	0.01	
5/16/24 8:20	1.69	7.65	0.00	
5/16/24 8:21	1.72	7.63	0.01	
5/16/24 8:22	1.74	7.62	0.00	
5/16/24 8:23	1.73	7.63	0.00	
5/16/24 8:24	1.72	7.63	0.01	
5/16/24 8:25	1.72	7.63	0.00	
5/16/24 8:26	1.70	7.63	0.01	
5/16/24 8:27	1.72	7.63	0.00	
5/16/24 8:28	1.74	7.63	0.00	
5/16/24 8:29	1.70	7.64	0.00	
5/16/24 8:30	1.69	7.65	0.00	
5/16/24 8:31	1.68	7.65	0.00	
5/16/24 8:32	1.70	7.63	0.00	
5/16/24 8:33	1.70	7.62	0.00	
5/16/24 8:34	1.74	7.61	0.00	
5/16/24 8:35	1.72	7.62	0.00	
5/16/24 8:36	1.74	7.61	0.00	
5/16/24 8:37	1.74	7.61	0.02	
5/16/24 8:38	1.76	7.60	0.05	
5/16/24 8:39	1.76	7.61	0.00	
5/16/24 8:40	1.73	7.63	0.00	
5/16/24 8:41	1.71	7.62	0.01	
5/16/24 8:42	1.71	7.63	0.00	
5/16/24 8:43	1.73	7.62	0.02	
5/16/24 8:44	1.72	7.63	0.00	
5/16/24 8:45	1.73	7.62	0.02	
5/16/24 8:46	1.75	7.62	0.00	
5/16/24 8:47	1.74	7.62	0.02	
5/16/24 8:48	1.71	7.63	0.02	
5/16/24 8:49	1.72	7.62	0.00	
5/16/24 8:50	1.73	7.62	0.00	
5/16/24 8:51	1.75	7.62	0.00	
5/16/24 8:52	1.73	7.63	0.01	
5/16/24 8:53	1.76	7.61	0.00	
5/16/24 8:54	1.76	7.62	0.00	
5/16/24 8:55	1.75	7.62	0.00	
5/16/24 8:56	1.74	7.63	0.00	
5/16/24 8:57	1.73	7.63	0.01	
5/16/24 8:58	1.72	7.63	0.00	
5/16/24 8:59	1.70	7.64	0.04	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 9:00	1.70	7.64	0.00	
5/16/24 9:01	1.68	7.67	0.00	
5/16/24 9:02	1.73	7.63	0.00	
5/16/24 9:03	1.75	7.62	0.46	
5/16/24 9:04	1.76	7.62	0.01	
5/16/24 9:05	1.70	7.66	0.00	
5/16/24 9:06	1.76	7.63	10.57	
5/16/24 9:07	1.73	7.64	14.88	
5/16/24 9:08	1.74	7.63	15.40	
5/16/24 9:09	1.71	7.65	15.12	
5/16/24 9:10	1.72	7.64	8.25	
5/16/24 9:11	1.70	7.64	0.02	
5/16/24 9:12	1.70	7.64	0.00	
5/16/24 9:13	1.69	7.64	0.00	
5/16/24 9:14	1.71	7.64	0.00	
5/16/24 9:15	1.72	7.63	0.00	
5/16/24 9:16	1.73	7.64	0.00	
5/16/24 9:17	1.73	7.63	0.00	
5/16/24 9:18	1.76	7.61	0.03	
5/16/24 9:19	1.75	7.61	0.00	
5/16/24 9:20	1.79	7.59	0.00	
5/16/24 9:21	1.83	7.58	0.00	
5/16/24 9:22	1.73	7.64	0.00	
5/16/24 9:23	1.73	7.63	0.00	
5/16/24 9:24	1.74	7.62	0.00	
5/16/24 9:25	1.72	7.64	0.00	
5/16/24 9:26	1.72	7.64	0.00	
5/16/24 9:27	1.69	7.65	0.00	
5/16/24 9:28	1.71	7.64	0.00	
5/16/24 9:29	1.71	7.64	0.00	
5/16/24 9:30	1.73	7.63	0.00	
5/16/24 9:31	1.74	7.62	0.00	
5/16/24 9:32	1.76	7.61	0.00	
5/16/24 9:33	1.72	7.63	0.00	
5/16/24 9:34	1.72	7.63	0.00	
5/16/24 9:35	1.72	7.63	0.02	
5/16/24 9:36	1.71	7.64	0.00	
5/16/24 9:37	1.73	7.62	0.00	
5/16/24 9:38	1.73	7.63	0.00	
5/16/24 9:39	1.71	7.64	0.00	
5/16/24 9:40	1.73	7.64	0.00	
5/16/24 9:41	1.73	7.64	0.00	
5/16/24 9:42	1.74	7.63	0.00	
5/16/24 9:43	1.73	7.63	0.00	
5/16/24 9:44	1.71	7.65	0.00	
5/16/24 9:45	1.73	7.64	0.01	
5/16/24 9:46	1.71	7.65	0.00	
5/16/24 9:47	1.73	7.64	0.01	
5/16/24 9:48	1.69	7.64	0.00	
5/16/24 9:49	1.72	7.63	0.00	
5/16/24 9:50	1.69	7.64	0.00	
5/16/24 9:51	1.66	7.66	0.01	
5/16/24 9:52	1.68	7.65	0.00	
5/16/24 9:53	1.69	7.65	0.00	
5/16/24 9:54	1.68	7.66	0.03	
5/16/24 9:55	1.69	7.65	0.00	
5/16/24 9:56	1.64	7.68	0.01	
5/16/24 9:57	1.64	7.68	0.00	
5/16/24 9:58	1.66	7.67	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 9:59	1.65	7.67	0.01	
5/16/24 10:00	1.68	7.67	0.00	
5/16/24 10:01	1.72	7.64	0.04	
5/16/24 10:02	1.71	7.65	0.00	
5/16/24 10:03	1.68	7.66	0.00	
5/16/24 10:04	1.68	7.68	0.01	
5/16/24 10:05	1.68	7.66	0.00	
5/16/24 10:06	1.71	7.66	0.00	
5/16/24 10:07	1.71	7.68	0.00	
5/16/24 10:08	1.69	7.67	0.03	
5/16/24 10:09	1.70	7.66	0.00	
5/16/24 10:10	1.67	7.67	0.00	
5/16/24 10:11	1.65	7.69	0.51	
5/16/24 10:12	1.68	7.67	0.00	
5/16/24 10:13	1.69	7.67	6.88	
5/16/24 10:14	1.72	7.65	14.09	
5/16/24 10:15	1.71	7.65	15.42	
5/16/24 10:16	1.71	7.65	15.33	
5/16/24 10:17	1.70	7.66	10.25	
5/16/24 10:18	1.71	7.65	0.00	
5/16/24 10:19	1.72	7.66	0.00	
5/16/24 10:20	1.72	7.64	0.00	
5/16/24 10:21	1.75	7.62	0.00	
5/16/24 10:22	1.76	7.62	0.00	
5/16/24 10:23	1.72	7.64	0.00	
5/16/24 10:24	1.69	7.65	0.00	
5/16/24 10:25	1.68	7.66	0.01	
5/16/24 10:26	1.67	7.66	0.00	
5/16/24 10:27	1.63	7.67	0.00	
5/16/24 10:28	1.68	7.65	0.00	
5/16/24 10:29	1.71	7.64	0.00	
5/16/24 10:30	1.73	7.63	0.00	
5/16/24 10:31	1.71	7.63	0.00	
5/16/24 10:32	1.75	7.61	0.00	
5/16/24 10:33	1.75	7.61	0.00	
5/16/24 10:34	1.68	7.66	0.02	
5/16/24 10:35	1.72	7.65	0.00	
5/16/24 10:36	1.72	7.64	0.00	
5/16/24 10:37	1.72	7.63	0.00	
5/16/24 10:38	1.70	7.65	0.00	
5/16/24 10:39	1.72	7.64	0.00	
5/16/24 10:40	1.70	7.65	0.00	
5/16/24 10:41	1.69	7.66	0.01	
5/16/24 10:42	1.72	7.64	0.00	
5/16/24 10:43	1.70	7.65	0.00	
5/16/24 10:44	1.71	7.64	0.00	
5/16/24 10:45	1.73	7.64	0.00	
5/16/24 10:46	1.72	7.64	0.00	
5/16/24 10:47	1.71	7.65	0.00	
5/16/24 10:48	1.72	7.64	0.00	
5/16/24 10:49	1.70	7.65	0.00	
5/16/24 10:50	1.74	7.62	0.00	
5/16/24 10:51	1.72	7.63	0.01	
5/16/24 10:52	1.72	7.64	0.00	
5/16/24 10:53	1.72	7.63	0.02	
5/16/24 10:54	1.72	7.64	0.00	
5/16/24 10:55	1.73	7.64	0.00	
5/16/24 10:56	1.73	7.64	0.00	
5/16/24 10:57	1.73	7.64	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 10:58	1.72	7.65	0.00	
5/16/24 10:59	1.77	7.62	0.00	
5/16/24 11:00	1.74	7.64	0.00	
5/16/24 11:01	1.71	7.64	0.00	
5/16/24 11:02	1.70	7.65	0.00	
5/16/24 11:03	1.74	7.63	0.00	
5/16/24 11:04	1.74	7.63	0.00	
5/16/24 11:05	1.72	7.64	0.00	
5/16/24 11:06	1.73	7.64	0.00	
5/16/24 11:07	1.72	7.65	0.00	
5/16/24 11:08	1.72	7.65	0.00	
5/16/24 11:09	1.70	7.66	0.00	
5/16/24 11:10	1.73	7.65	0.00	
5/16/24 11:11	1.71	7.66	0.51	
5/16/24 11:12	1.72	7.64	0.01	
5/16/24 11:13	1.70	7.65	3.68	
5/16/24 11:14	1.76	7.61	14.65	
5/16/24 11:15	1.72	7.63	14.98	
5/16/24 11:16	1.68	7.65	15.31	
5/16/24 11:17	2.47	6.85	9.53	
5/16/24 11:18	0.00	0.18	10.85	
5/16/24 11:19	0.00	0.00	73.89	
5/16/24 11:20	2.40	2.08	74.29	
5/16/24 11:21	10.94	10.85	74.79	
5/16/24 11:22	10.96	10.97	66.07	
5/16/24 11:23	7.90	9.83	4.59	
5/16/24 11:24	1.74	7.62	0.00	
5/16/24 11:25	1.69	7.63	0.00	
5/16/24 11:26	1.65	7.65	0.01	
5/16/24 11:27	1.65	7.65	0.00	
5/16/24 11:28	1.67	7.64	0.00	
5/16/24 11:29	1.67	7.63	0.00	
5/16/24 11:30	1.66	7.64	0.00	
5/16/24 11:31	1.70	7.62	0.01	
5/16/24 11:32	1.70	7.62	0.29	
5/16/24 11:33	1.70	7.61	0.01	
5/16/24 11:34	1.71	7.61	0.00	
5/16/24 11:35	1.69	7.61	0.00	
5/16/24 11:36	1.70	7.60	0.02	
5/16/24 11:37	1.72	7.59	0.00	
5/16/24 11:38	1.69	7.60	0.00	
5/16/24 11:39	1.75	7.58	0.00	
5/16/24 11:40	1.68	7.62	0.00	Run 4
5/16/24 11:41	1.69	7.62	0.00	
5/16/24 11:42	1.64	7.64	0.00	
5/16/24 11:43	1.67	7.63	0.01	
5/16/24 11:44	1.68	7.62	0.00	
5/16/24 11:45	1.69	7.60	0.08	
5/16/24 11:46	1.71	7.60	0.00	
5/16/24 11:47	1.71	7.60	0.00	
5/16/24 11:48	1.73	7.58	0.00	
5/16/24 11:49	1.72	7.59	0.00	
5/16/24 11:50	1.72	7.59	0.02	
5/16/24 11:51	1.71	7.60	0.00	
5/16/24 11:52	1.71	7.59	0.00	
5/16/24 11:53	1.70	7.60	0.00	
5/16/24 11:54	1.70	7.60	0.00	
5/16/24 11:55	1.72	7.59	0.00	
5/16/24 11:56	1.69	7.61	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 11:57	1.73	7.59	0.00	
5/16/24 11:58	1.70	7.60	0.00	
5/16/24 11:59	1.71	7.60	0.01	
5/16/24 12:00	1.72	7.60	0.00	
5/16/24 12:01	1.72	7.60	0.00	
5/16/24 12:02	1.73	7.58	0.00	
5/16/24 12:03	1.72	7.60	0.00	
5/16/24 12:04	1.74	7.59	0.00	
5/16/24 12:05	1.75	7.58	0.00	
5/16/24 12:06	1.70	7.60	0.00	
5/16/24 12:07	1.68	7.62	0.00	
5/16/24 12:08	1.67	7.61	0.00	
5/16/24 12:09	1.66	7.62	0.03	
5/16/24 12:10	1.67	7.61	0.00	
5/16/24 12:11	1.66	7.60	0.00	
5/16/24 12:12	1.68	7.58	0.00	
5/16/24 12:13	1.72	7.57	0.00	
5/16/24 12:14	1.71	7.58	0.00	
5/16/24 12:15	1.73	7.56	0.00	
5/16/24 12:16	1.70	7.57	0.00	
5/16/24 12:17	1.68	7.58	0.00	
5/16/24 12:18	1.71	7.57	0.00	
5/16/24 12:19	1.76	7.55	0.00	
5/16/24 12:20	1.74	7.56	0.00	
5/16/24 12:21	1.68	7.60	0.00	
5/16/24 12:22	1.69	7.59	0.00	
5/16/24 12:23	1.71	7.59	0.02	
5/16/24 12:24	1.72	7.59	0.00	
5/16/24 12:25	1.71	7.59	0.01	
5/16/24 12:26	1.70	7.60	0.00	
5/16/24 12:27	1.71	7.59	0.00	
5/16/24 12:28	1.68	7.61	0.00	
5/16/24 12:29	1.72	7.59	0.00	
5/16/24 12:30	1.71	7.59	0.00	
5/16/24 12:31	1.72	7.59	0.00	
5/16/24 12:32	1.74	7.57	0.00	
5/16/24 12:33	1.74	7.57	0.00	
5/16/24 12:34	1.76	7.56	0.00	
5/16/24 12:35	1.76	7.57	0.09	
5/16/24 12:36	1.71	7.60	0.00	
5/16/24 12:37	1.69	7.61	0.00	
5/16/24 12:38	1.69	7.62	0.00	
5/16/24 12:39	1.69	7.74	0.01	
5/16/24 12:40	1.71	7.62	0.02	
5/16/24 12:41	1.68	7.64	0.40	
5/16/24 12:42	1.70	7.58	0.00	
5/16/24 12:43	1.68	7.60	0.00	
5/16/24 12:44	1.74	7.57	11.31	
5/16/24 12:45	1.70	7.61	14.87	
5/16/24 12:46	1.72	7.59	15.12	
5/16/24 12:47	1.67	7.65	4.51	
5/16/24 12:48	1.71	7.62	0.00	
5/16/24 12:49	1.66	7.65	0.00	
5/16/24 12:50	1.70	7.62	0.00	
5/16/24 12:51	1.67	7.63	0.01	
5/16/24 12:52	1.66	7.64	0.00	
5/16/24 12:53	1.65	7.65	0.00	
5/16/24 12:54	1.68	7.63	0.00	
5/16/24 12:55	1.71	7.60	0.00	



BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 12:56	1.68	7.62	0.01	
5/16/24 12:57	1.70	7.60	0.00	
5/16/24 12:58	1.69	7.60	0.02	
5/16/24 12:59	1.70	7.59	0.00	
5/16/24 13:00	1.71	7.57	0.00	
5/16/24 13:01	1.74	7.55	0.01	
5/16/24 13:02	1.71	7.59	0.00	
5/16/24 13:03	1.69	7.60	0.00	
5/16/24 13:04	1.63	7.63	0.00	
5/16/24 13:05	1.62	7.64	0.00	
5/16/24 13:06	1.64	7.64	0.00	
5/16/24 13:07	1.63	7.65	0.00	
5/16/24 13:08	1.65	7.63	0.01	
5/16/24 13:09	1.67	7.62	0.00	
5/16/24 13:10	1.68	7.61	0.01	
5/16/24 13:11	1.66	7.62	0.00	
5/16/24 13:12	1.68	7.62	0.00	
5/16/24 13:13	1.69	7.61	0.00	
5/16/24 13:14	1.69	7.61	0.00	
5/16/24 13:15	1.67	7.62	0.00	
5/16/24 13:16	1.65	7.64	0.00	
5/16/24 13:17	1.64	7.64	0.00	
5/16/24 13:18	1.66	7.64	0.00	
5/16/24 13:19	1.66	7.64	0.00	
5/16/24 13:20	1.66	7.64	0.01	
5/16/24 13:21	1.65	7.64	0.00	
5/16/24 13:22	1.66	7.62	0.05	
5/16/24 13:23	1.66	7.63	0.00	
5/16/24 13:24	1.66	7.63	0.00	
5/16/24 13:25	1.65	7.61	0.01	
5/16/24 13:26	1.70	7.58	0.00	
5/16/24 13:27	1.69	7.60	0.02	
5/16/24 13:28	1.65	7.63	0.00	
5/16/24 13:29	1.66	7.62	0.00	
5/16/24 13:30	1.63	7.64	0.00	
5/16/24 13:31	1.65	7.63	0.00	
5/16/24 13:32	1.67	7.62	0.00	
5/16/24 13:33	1.66	7.61	0.00	
5/16/24 13:34	1.65	7.63	0.00	
5/16/24 13:35	1.65	7.62	0.00	
5/16/24 13:36	1.66	7.61	0.00	
5/16/24 13:37	1.63	7.63	0.00	
5/16/24 13:38	1.66	7.61	0.00	
5/16/24 13:39	1.66	7.61	0.01	
5/16/24 13:40	1.64	7.62	0.00	
5/16/24 13:41	1.68	7.60	0.00	
5/16/24 13:42	1.64	7.63	0.00	
5/16/24 13:43	1.62	7.64	0.00	
5/16/24 13:44	1.63	7.63	0.00	
5/16/24 13:45	1.64	7.62	0.00	
5/16/24 13:46	1.65	7.62	0.47	
5/16/24 13:47	1.64	7.62	0.00	
5/16/24 13:48	1.67	7.60	0.00	
5/16/24 13:49	1.69	7.58	7.05	
5/16/24 13:50	1.66	7.60	14.77	
5/16/24 13:51	1.67	7.60	15.23	
5/16/24 13:52	1.67	7.60	8.92	
5/16/24 13:53	1.68	7.59	0.01	
5/16/24 13:54	1.69	7.58	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 13:55	1.67	7.60	0.00	
5/16/24 13:56	1.64	7.61	0.00	
5/16/24 13:57	1.66	7.61	0.00	
5/16/24 13:58	1.64	7.61	0.01	
5/16/24 13:59	1.66	7.61	0.00	
5/16/24 14:00	1.62	7.63	0.02	
5/16/24 14:01	1.65	7.61	0.00	
5/16/24 14:02	1.64	7.62	0.00	
5/16/24 14:03	1.65	7.61	0.00	
5/16/24 14:04	1.63	7.63	0.00	
5/16/24 14:05	1.66	7.61	0.04	
5/16/24 14:06	1.67	7.61	0.00	
5/16/24 14:07	1.65	7.62	0.00	
5/16/24 14:08	1.63	7.63	0.00	
5/16/24 14:09	1.64	7.62	0.00	
5/16/24 14:10	1.67	7.62	0.00	
5/16/24 14:11	1.66	7.61	0.00	
5/16/24 14:12	1.66	7.61	0.00	
5/16/24 14:13	1.69	7.60	0.00	
5/16/24 14:14	1.67	7.61	0.00	
5/16/24 14:15	1.63	7.64	0.00	
5/16/24 14:16	1.65	7.63	0.00	
5/16/24 14:17	1.61	7.66	0.00	
5/16/24 14:18	1.62	7.64	0.00	
5/16/24 14:19	1.61	7.66	0.00	
5/16/24 14:20	1.64	7.64	0.00	
5/16/24 14:21	1.65	7.64	0.00	
5/16/24 14:22	1.65	7.63	0.00	
5/16/24 14:23	1.65	7.64	0.00	
5/16/24 14:24	1.67	7.63	0.00	
5/16/24 14:25	1.66	7.63	0.02	
5/16/24 14:26	1.68	7.62	0.00	
5/16/24 14:27	1.67	7.63	0.01	
5/16/24 14:28	1.70	7.62	0.00	
5/16/24 14:29	1.64	7.65	0.03	
5/16/24 14:30	1.63	7.66	0.00	
5/16/24 14:31	1.67	7.64	0.00	
5/16/24 14:32	1.64	7.66	0.00	
5/16/24 14:33	1.64	7.66	0.00	
5/16/24 14:34	1.65	7.65	0.06	
5/16/24 14:35	1.65	7.65	0.00	
5/16/24 14:36	1.65	7.64	0.00	
5/16/24 14:37	1.68	7.63	0.00	
5/16/24 14:38	1.66	7.65	0.00	
5/16/24 14:39	1.67	7.64	0.01	
5/16/24 14:40	1.68	7.64	0.00	
5/16/24 14:41	1.59	7.70	0.01	
5/16/24 14:42	1.65	7.67	0.00	
5/16/24 14:43	1.62	7.69	0.00	
5/16/24 14:44	1.69	7.64	0.00	
5/16/24 14:45	1.68	7.65	0.00	
5/16/24 14:46	1.64	7.66	0.00	
5/16/24 14:47	1.67	7.65	0.00	
5/16/24 14:48	1.66	7.65	0.00	
5/16/24 14:49	1.67	7.65	0.00	
5/16/24 14:50	1.63	7.67	0.00	
5/16/24 14:51	1.62	7.68	0.03	
5/16/24 14:52	1.64	7.66	0.00	
5/16/24 14:53	1.62	7.69	0.01	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 14:54	1.65	7.67	0.59	
5/16/24 14:55	1.66	7.66	0.00	
5/16/24 14:56	1.68	7.65	3.41	
5/16/24 14:57	1.67	7.66	14.55	
5/16/24 14:58	1.67	7.65	15.54	
5/16/24 14:59	1.65	7.66	15.20	
5/16/24 15:00	1.66	7.64	15.40	
5/16/24 15:01	1.67	7.64	2.92	
5/16/24 15:02	1.67	7.65	0.01	
5/16/24 15:03	1.69	7.64	0.00	
5/16/24 15:04	1.63	7.67	0.00	
5/16/24 15:05	1.64	7.66	0.00	
5/16/24 15:06	1.62	7.68	0.00	
5/16/24 15:07	1.65	7.66	0.02	
5/16/24 15:08	1.62	7.67	0.00	
5/16/24 15:09	1.66	7.65	0.00	
5/16/24 15:10	1.66	7.66	0.00	
5/16/24 15:11	1.70	7.63	0.00	
5/16/24 15:12	1.66	7.65	0.00	
5/16/24 15:13	1.64	7.65	0.00	
5/16/24 15:14	1.64	7.65	0.00	
5/16/24 15:15	1.66	7.64	0.02	
5/16/24 15:16	1.68	7.64	0.00	
5/16/24 15:17	1.64	7.67	0.00	
5/16/24 15:18	1.64	7.67	0.00	
5/16/24 15:19	1.64	7.67	0.00	
5/16/24 15:20	1.65	7.65	0.00	
5/16/24 15:21	1.64	7.66	0.00	
5/16/24 15:22	1.64	7.67	0.00	
5/16/24 15:23	1.63	7.67	0.00	
5/16/24 15:24	1.65	7.66	0.00	
5/16/24 15:25	1.65	7.66	0.00	
5/16/24 15:26	1.65	7.66	0.00	
5/16/24 15:27	1.66	7.65	0.00	
5/16/24 15:28	1.67	7.64	0.00	
5/16/24 15:29	1.66	7.65	0.01	
5/16/24 15:30	1.66	7.65	0.00	
5/16/24 15:31	1.67	7.64	0.00	
5/16/24 15:32	1.65	7.65	0.00	
5/16/24 15:33	1.65	7.65	0.00	
5/16/24 15:34	1.63	7.66	0.00	
5/16/24 15:35	1.64	7.65	0.00	
5/16/24 15:36	1.63	7.66	0.00	
5/16/24 15:37	1.64	7.66	0.00	
5/16/24 15:38	1.63	7.66	0.00	
5/16/24 15:39	1.62	7.67	0.00	
5/16/24 15:40	1.64	7.65	0.00	
5/16/24 15:41	1.65	7.65	0.00	
5/16/24 15:42	1.66	7.65	0.00	
5/16/24 15:43	1.67	7.64	0.00	
5/16/24 15:44	1.64	7.65	0.00	
5/16/24 15:45	1.65	7.65	0.00	End Run 4
5/16/24 15:46	1.65	7.65	0.00	
5/16/24 15:47	1.65	7.65	0.41	
5/16/24 15:48	1.66	7.64	0.00	
5/16/24 15:49	1.66	7.64	5.64	
5/16/24 15:50	1.71	7.63	14.57	
5/16/24 15:51	1.65	7.66	14.89	
5/16/24 15:52	1.62	7.67	15.24	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/16/24 15:53	1.49	6.34	9.91	
5/16/24 15:54	0.00	0.12	0.00	
5/16/24 15:55	0.00	0.00	0.00	
5/16/24 15:56	2.09	1.80	30.47	
5/16/24 15:57	10.93	10.82	40.30	
5/16/24 15:58	10.96	10.98	51.73	
5/16/24 15:59	9.60	10.49	71.54	
5/16/24 16:00	1.67	7.64	73.84	
5/16/24 16:01	1.64	7.63	74.19	
5/16/24 16:02	1.67	7.62	74.69	
5/16/24 16:03	1.68	7.61	71.50	
5/16/24 16:04	1.68	7.61	3.27	
5/16/24 16:05	1.65	7.63	0.00	
5/16/24 16:06	1.66	7.62	0.00	
5/16/24 16:07	1.65	7.63	0.00	
5/16/24 16:08	1.66	7.63	0.00	
5/16/24 16:09	1.65	7.63	0.00	
5/16/24 16:10	1.64	7.65	0.00	
5/16/24 16:11	1.66	7.64	0.00	
5/16/24 16:12	1.67	7.62	10.03	
5/16/24 16:13	1.63	7.64	13.24	
5/17/24 6:18	2.60	7.25	0.00	
5/17/24 6:19	0.49	0.99	0.00	(Cals 5)
5/17/24 6:20	0.00	0.02	0.01	Direct Calibrations
5/17/24 6:21	0.03	0.00	0.00	Zeros
5/17/24 6:22	0.03	0.00	0.00	
5/17/24 6:23	21.83	20.45	0.00	
5/17/24 6:24	23.07	22.94	0.00	Highs
5/17/24 6:25	20.77	20.43	0.00	
5/17/24 6:26	11.00	11.04	0.00	
5/17/24 6:27	11.02	10.95	0.00	Mids
5/17/24 6:28	8.58	8.62	0.00	
5/17/24 6:29	0.05	0.09	0.00	Initial bias (run 5)
5/17/24 6:30	0.03	0.01	49.14	Zeros
5/17/24 6:31	1.48	1.37	78.09	
5/17/24 6:32	10.99	10.81	78.20	
5/17/24 6:33	11.01	10.88	78.12	Mids
5/17/24 6:34	10.95	10.87	74.95	
5/17/24 6:35	2.06	7.66	26.30	
5/17/24 6:36	1.73	7.58	2.08	
5/17/24 6:37	1.77	7.54	2.06	
5/17/24 6:38	1.75	7.56	1.15	
5/17/24 6:39	1.75	7.56	0.10	THC Calibrations
5/17/24 6:40	1.73	7.57	0.00	Zero
5/17/24 6:41	1.66	7.60	10.54	
5/17/24 6:42	1.69	7.58	28.80	
5/17/24 6:43	1.69	7.58	25.49	High
5/17/24 6:44	1.72	7.57	21.20	
5/17/24 6:45	1.73	7.57	8.72	
5/17/24 6:46	1.71	7.58	9.12	
5/17/24 6:47	1.74	7.56	8.98	Low
5/17/24 6:48	1.77	7.54	14.55	
5/17/24 6:49	1.78	7.54	15.04	Mid
5/17/24 6:50	1.75	7.56	8.09	Bias Shot THC (run 5)
5/17/24 6:51	1.75	7.55	0.00	Zero
5/17/24 6:52	1.74	7.56	7.30	
5/17/24 6:53	1.76	7.55	14.99	Mid
5/17/24 6:54	1.76	7.55	12.37	
5/17/24 6:55	1.76	7.55	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 6:56	1.81	7.53	0.00	
5/17/24 6:57	1.79	7.55	0.00	
5/17/24 6:58	1.74	7.58	0.00	
5/17/24 6:59	1.75	7.57	0.00	
5/17/24 7:00	1.76	7.57	0.00	Start run 5
5/17/24 7:01	1.74	7.57	0.00	
5/17/24 7:02	1.75	7.57	0.00	
5/17/24 7:03	1.73	7.57	0.00	
5/17/24 7:04	1.71	7.58	0.01	
5/17/24 7:05	1.71	7.58	0.00	
5/17/24 7:06	1.75	7.55	0.00	
5/17/24 7:07	1.75	7.57	0.00	
5/17/24 7:08	1.72	7.57	0.00	
5/17/24 7:09	1.74	7.57	0.00	
5/17/24 7:10	1.73	7.57	0.00	
5/17/24 7:11	1.76	7.55	0.01	
5/17/24 7:12	1.74	7.56	0.00	
5/17/24 7:13	1.73	7.57	0.00	
5/17/24 7:14	1.77	7.55	0.01	
5/17/24 7:15	1.75	7.58	0.00	
5/17/24 7:16	1.71	7.60	0.00	
5/17/24 7:17	1.71	7.59	0.05	
5/17/24 7:18	1.71	7.60	0.00	
5/17/24 7:19	1.71	7.59	0.01	
5/17/24 7:20	1.72	7.59	0.00	
5/17/24 7:21	1.69	7.60	0.00	
5/17/24 7:22	1.71	7.58	0.00	
5/17/24 7:23	1.73	7.57	0.00	
5/17/24 7:24	1.75	7.56	0.00	
5/17/24 7:25	1.76	7.56	0.00	
5/17/24 7:26	1.72	7.58	0.00	
5/17/24 7:27	1.76	7.56	0.33	
5/17/24 7:28	1.74	7.58	0.00	
5/17/24 7:29	1.71	7.60	0.03	
5/17/24 7:30	1.72	7.60	0.03	
5/17/24 7:31	1.74	7.59	0.00	
5/17/24 7:32	1.73	7.60	0.00	
5/17/24 7:33	1.71	7.61	0.00	
5/17/24 7:34	1.73	7.59	0.00	
5/17/24 7:35	1.72	7.60	0.02	
5/17/24 7:36	1.75	7.58	0.00	
5/17/24 7:37	1.75	7.58	0.00	
5/17/24 7:38	1.73	7.59	0.00	
5/17/24 7:39	1.76	7.56	0.00	
5/17/24 7:40	1.73	7.58	0.03	
5/17/24 7:41	1.74	7.57	0.00	
5/17/24 7:42	1.76	7.56	0.00	
5/17/24 7:43	1.75	7.57	0.00	
5/17/24 7:44	1.74	7.57	0.00	
5/17/24 7:45	1.77	7.55	0.00	
5/17/24 7:46	1.76	7.56	0.00	
5/17/24 7:47	1.74	7.57	0.01	
5/17/24 7:48	1.71	7.59	0.00	
5/17/24 7:49	1.74	7.56	0.01	
5/17/24 7:50	1.72	7.57	0.00	
5/17/24 7:51	1.72	7.58	0.00	
5/17/24 7:52	1.71	7.59	0.00	
5/17/24 7:53	1.72	7.59	0.59	
5/17/24 7:54	1.71	7.59	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 7:55	1.71	7.59	7.22	
5/17/24 7:56	1.72	7.58	13.11	
5/17/24 7:57	1.70	7.59	14.55	
5/17/24 7:58	1.71	7.57	15.37	
5/17/24 7:59	1.71	7.57	15.14	
5/17/24 8:00	1.70	7.58	10.12	
5/17/24 8:01	1.71	7.57	0.01	
5/17/24 8:02	1.70	7.58	0.00	
5/17/24 8:03	1.71	7.58	0.00	
5/17/24 8:04	1.72	7.57	0.00	
5/17/24 8:05	1.75	7.57	0.00	
5/17/24 8:06	1.72	7.60	0.00	
5/17/24 8:07	1.75	7.58	0.00	
5/17/24 8:08	1.73	7.58	0.00	
5/17/24 8:09	1.70	7.59	0.00	
5/17/24 8:10	1.69	7.58	0.00	
5/17/24 8:11	1.69	7.58	0.03	
5/17/24 8:12	1.70	7.58	0.00	
5/17/24 8:13	1.70	7.58	0.00	
5/17/24 8:14	1.73	7.56	0.00	
5/17/24 8:15	1.70	7.57	0.00	
5/17/24 8:16	1.71	7.57	0.00	
5/17/24 8:17	1.70	7.57	0.00	
5/17/24 8:18	1.70	7.58	0.01	
5/17/24 8:19	1.74	7.56	0.00	
5/17/24 8:20	1.73	7.56	0.00	
5/17/24 8:21	1.73	7.56	0.00	
5/17/24 8:22	1.71	7.57	0.00	
5/17/24 8:23	1.72	7.57	0.00	
5/17/24 8:24	1.73	7.56	0.00	
5/17/24 8:25	1.70	7.58	0.00	
5/17/24 8:26	1.69	7.58	0.00	
5/17/24 8:27	1.69	7.58	0.00	
5/17/24 8:28	1.69	7.58	0.00	
5/17/24 8:29	1.70	7.57	0.00	
5/17/24 8:30	1.70	7.57	0.00	
5/17/24 8:31	1.70	7.57	0.00	
5/17/24 8:32	1.73	7.56	0.01	
5/17/24 8:33	1.71	7.57	0.00	
5/17/24 8:34	1.70	7.58	0.00	
5/17/24 8:35	1.71	7.57	0.00	
5/17/24 8:36	1.70	7.58	0.00	
5/17/24 8:37	1.68	7.59	0.00	
5/17/24 8:38	1.70	7.58	0.00	
5/17/24 8:39	1.72	7.57	0.00	
5/17/24 8:40	1.70	7.58	0.00	
5/17/24 8:41	1.68	7.59	0.00	
5/17/24 8:42	1.77	7.53	0.00	
5/17/24 8:43	1.78	7.54	0.00	
5/17/24 8:44	1.77	7.55	0.00	
5/17/24 8:45	1.74	7.57	0.00	
5/17/24 8:46	1.72	7.58	0.01	
5/17/24 8:47	1.74	7.57	0.00	
5/17/24 8:48	1.71	7.59	0.00	
5/17/24 8:49	1.74	7.57	0.00	
5/17/24 8:50	1.72	7.58	0.01	
5/17/24 8:51	1.74	7.56	0.00	
5/17/24 8:52	1.72	7.57	0.00	
5/17/24 8:53	1.76	7.55	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 8:54	1.74	7.57	0.00	
5/17/24 8:55	1.74	7.57	0.00	
5/17/24 8:56	1.75	7.57	0.00	
5/17/24 8:57	1.75	7.57	0.00	
5/17/24 8:58	1.74	7.56	0.00	
5/17/24 8:59	1.73	7.57	0.00	
5/17/24 9:00	1.73	7.57	0.00	
5/17/24 9:01	1.77	7.56	0.00	
5/17/24 9:02	1.74	7.58	0.00	
5/17/24 9:03	1.74	7.58	0.00	
5/17/24 9:04	1.71	7.59	0.00	
5/17/24 9:05	1.73	7.57	0.00	
5/17/24 9:06	1.74	7.56	0.02	
5/17/24 9:07	1.74	7.56	0.00	
5/17/24 9:08	1.75	7.55	0.00	
5/17/24 9:09	1.76	7.54	0.00	
5/17/24 9:10	1.77	7.54	0.00	
5/17/24 9:11	1.74	7.56	0.00	
5/17/24 9:12	1.76	7.54	11.39	
5/17/24 9:13	1.76	7.55	15.03	
5/17/24 9:14	1.79	7.52	8.83	
5/17/24 9:15	1.76	7.55	0.00	
5/17/24 9:16	1.75	7.56	0.00	
5/17/24 9:17	1.74	7.57	0.00	
5/17/24 9:18	1.78	7.54	0.00	
5/17/24 9:19	1.78	7.54	0.00	
5/17/24 9:20	1.76	7.56	0.00	
5/17/24 9:21	1.75	7.56	0.00	
5/17/24 9:22	1.81	7.52	0.00	
5/17/24 9:23	1.78	7.54	0.00	
5/17/24 9:24	1.77	7.54	0.00	
5/17/24 9:25	1.77	7.53	0.00	
5/17/24 9:26	1.80	7.51	0.00	
5/17/24 9:27	1.76	7.53	0.00	
5/17/24 9:28	1.75	7.54	0.00	
5/17/24 9:29	1.73	7.54	0.00	
5/17/24 9:30	1.70	7.56	0.00	
5/17/24 9:31	1.70	7.55	0.01	
5/17/24 9:32	1.71	7.55	0.00	
5/17/24 9:33	1.75	7.53	0.01	
5/17/24 9:34	1.73	7.54	0.00	
5/17/24 9:35	1.72	7.54	0.00	
5/17/24 9:36	1.73	7.54	0.00	
5/17/24 9:37	1.73	7.54	0.00	
5/17/24 9:38	1.72	7.54	0.00	
5/17/24 9:39	1.77	7.50	0.00	
5/17/24 9:40	1.77	7.51	0.00	
5/17/24 9:41	1.76	7.52	0.00	
5/17/24 9:42	1.76	7.51	0.00	
5/17/24 9:43	1.76	7.51	0.00	
5/17/24 9:44	1.81	7.48	0.00	
5/17/24 9:45	1.71	7.56	0.00	
5/17/24 9:46	1.75	7.53	0.00	
5/17/24 9:47	1.76	7.53	0.01	
5/17/24 9:48	1.75	7.53	0.00	
5/17/24 9:49	1.77	7.52	0.00	
5/17/24 9:50	1.70	7.55	0.00	
5/17/24 9:51	1.75	7.52	0.00	
5/17/24 9:52	1.73	7.53	0.06	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 9:53	1.75	7.53	0.00	
5/17/24 9:54	1.71	7.53	0.00	
5/17/24 9:55	1.73	7.53	0.00	
5/17/24 9:56	1.77	7.52	0.00	
5/17/24 9:57	1.75	7.53	0.00	
5/17/24 9:58	1.75	7.53	0.00	
5/17/24 9:59	1.71	7.55	0.00	
5/17/24 10:00	1.72	7.54	0.00	
5/17/24 10:01	1.74	7.52	0.00	
5/17/24 10:02	1.73	7.53	0.00	
5/17/24 10:03	1.73	7.54	0.00	
5/17/24 10:04	1.76	7.52	0.00	
5/17/24 10:05	1.77	7.51	0.00	
5/17/24 10:06	1.76	7.51	0.00	
5/17/24 10:07	1.76	7.51	0.00	
5/17/24 10:08	1.77	7.51	0.00	
5/17/24 10:09	1.73	7.53	0.00	
5/17/24 10:10	1.73	7.52	0.05	
5/17/24 10:11	1.74	7.52	0.00	
5/17/24 10:12	1.65	7.57	0.00	
5/17/24 10:13	1.76	7.52	0.00	
5/17/24 10:14	1.71	7.56	0.00	
5/17/24 10:15	1.75	7.52	0.00	
5/17/24 10:16	1.73	7.53	0.00	
5/17/24 10:17	1.69	7.55	0.00	
5/17/24 10:18	1.69	7.55	0.00	
5/17/24 10:19	1.73	7.53	0.00	
5/17/24 10:20	1.71	7.54	0.00	
5/17/24 10:21	1.71	7.54	0.00	
5/17/24 10:22	1.71	7.52	0.00	
5/17/24 10:23	1.68	7.55	9.06	
5/17/24 10:24	1.73	7.52	14.78	
5/17/24 10:25	1.75	7.51	8.74	
5/17/24 10:26	1.73	7.52	0.00	
5/17/24 10:27	1.74	7.52	0.00	
5/17/24 10:28	1.74	7.50	0.00	
5/17/24 10:29	1.73	7.51	0.00	
5/17/24 10:30	1.76	7.51	0.00	
5/17/24 10:31	1.73	7.51	0.00	
5/17/24 10:32	1.74	7.50	0.00	
5/17/24 10:33	1.75	7.51	0.00	
5/17/24 10:34	1.76	7.50	0.13	
5/17/24 10:35	1.74	7.52	0.00	
5/17/24 10:36	1.73	7.52	0.00	
5/17/24 10:37	1.77	7.50	0.00	
5/17/24 10:38	1.76	7.50	0.00	
5/17/24 10:39	1.78	7.50	0.02	
5/17/24 10:40	1.79	7.49	0.00	
5/17/24 10:41	1.78	7.49	0.01	
5/17/24 10:42	1.76	7.49	0.00	
5/17/24 10:43	1.82	7.47	0.00	
5/17/24 10:44	1.75	7.51	0.00	
5/17/24 10:45	1.76	7.50	0.00	
5/17/24 10:46	1.73	7.53	0.00	
5/17/24 10:47	1.73	7.52	0.00	
5/17/24 10:48	1.74	7.52	0.00	
5/17/24 10:49	1.73	7.52	0.00	
5/17/24 10:50	1.75	7.51	0.00	
5/17/24 10:51	1.77	7.50	0.00	



BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 10:52	1.73	7.52	0.00	
5/17/24 10:53	1.74	7.51	0.01	
5/17/24 10:54	1.72	7.52	0.00	
5/17/24 10:55	1.72	7.52	0.00	
5/17/24 10:56	1.73	7.51	0.00	
5/17/24 10:57	1.71	7.52	0.00	
5/17/24 10:58	1.69	7.53	0.00	
5/17/24 10:59	1.73	7.52	0.00	
5/17/24 11:00	1.75	7.51	0.00	
5/17/24 11:01	1.74	7.51	0.00	
5/17/24 11:02	1.69	7.53	0.00	
5/17/24 11:03	1.71	7.52	0.00	
5/17/24 11:04	1.72	7.52	0.03	
5/17/24 11:05	1.68	7.52	0.01	
5/17/24 11:06	0.05	0.01	0.00	
5/17/24 11:07	0.04	0.00	0.00	
5/17/24 11:08	2.41	2.02	0.00	
5/17/24 11:09	10.84	10.55	0.00	
5/17/24 11:10	11.02	10.83	0.00	
5/17/24 11:11	9.00	10.11	0.00	
5/17/24 11:12	1.79	7.51	0.01	
5/17/24 11:13	1.71	7.54	4.81	
5/17/24 11:14	1.74	7.53	14.47	
5/17/24 11:15	1.77	7.52	14.73	
5/17/24 11:16	1.80	7.50	15.11	
5/17/24 11:17	1.79	7.50	8.21	
5/17/24 11:18	1.82	7.48	53.27	
5/17/24 11:19	1.79	7.49	75.86	
5/17/24 11:20	1.75	7.51	76.12	
5/17/24 11:21	1.81	7.47	76.56	
5/17/24 11:22	1.78	7.49	37.94	
5/17/24 11:23	1.79	7.48	0.00	
5/17/24 11:24	1.82	7.47	0.00	
5/17/24 11:25	1.74	7.52	0.00	
5/17/24 11:26	1.76	7.50	0.01	
5/17/24 11:27	1.78	7.50	0.00	
5/17/24 11:28	1.80	7.48	0.00	
5/17/24 11:29	1.79	7.49	0.00	
5/17/24 11:30	1.78	7.49	0.00	
5/17/24 11:31	1.77	7.50	0.00	
5/17/24 11:32	1.79	7.48	0.86	
5/17/24 11:33	1.81	7.47	0.63	
5/17/24 11:34	1.75	7.50	0.00	
5/17/24 11:35	1.73	7.51	0.00	
5/17/24 11:36	1.75	7.49	0.01	
5/17/24 11:37	1.75	7.50	0.00	
5/17/24 11:38	1.70	7.52	0.00	Start run 6
5/17/24 11:39	1.70	7.52	0.00	
5/17/24 11:40	1.68	7.53	0.04	
5/17/24 11:41	1.71	7.52	0.00	
5/17/24 11:42	1.72	7.51	0.00	
5/17/24 11:43	1.72	7.50	0.00	
5/17/24 11:44	1.81	7.46	0.00	
5/17/24 11:45	1.75	7.49	0.00	
5/17/24 11:46	1.75	7.50	0.00	
5/17/24 11:47	1.75	7.49	0.00	
5/17/24 11:48	1.75	7.50	0.00	
5/17/24 11:49	1.76	7.49	0.00	
5/17/24 11:50	1.75	7.50	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 11:51	1.72	7.51	0.00	
5/17/24 11:52	1.71	7.50	0.00	
5/17/24 11:53	1.74	7.48	0.00	
5/17/24 11:54	1.72	7.50	0.00	
5/17/24 11:55	1.69	7.52	0.00	
5/17/24 11:56	1.68	7.53	0.00	
5/17/24 11:57	1.70	7.50	0.00	
5/17/24 11:58	1.71	7.50	0.00	
5/17/24 11:59	1.72	7.49	0.00	
5/17/24 12:00	1.71	7.49	0.00	
5/17/24 12:01	1.69	7.51	0.00	
5/17/24 12:02	1.72	7.50	0.00	
5/17/24 12:03	1.74	7.49	0.00	
5/17/24 12:04	1.73	7.50	0.01	
5/17/24 12:05	1.75	7.48	0.00	
5/17/24 12:06	1.71	7.51	0.00	
5/17/24 12:07	1.73	7.50	0.00	
5/17/24 12:08	1.74	7.51	0.00	
5/17/24 12:09	1.73	7.50	0.00	
5/17/24 12:10	1.74	7.51	0.00	
5/17/24 12:11	1.77	7.48	0.01	
5/17/24 12:12	1.76	7.49	0.00	
5/17/24 12:13	1.73	7.50	0.00	
5/17/24 12:14	1.68	7.51	0.00	
5/17/24 12:15	1.70	7.51	0.00	
5/17/24 12:16	1.70	7.51	0.00	
5/17/24 12:17	1.69	7.53	0.00	
5/17/24 12:18	1.72	7.52	0.00	
5/17/24 12:19	1.70	7.53	0.00	
5/17/24 12:20	1.71	7.51	0.00	
5/17/24 12:21	1.71	7.52	0.00	
5/17/24 12:22	1.73	7.51	0.00	
5/17/24 12:23	1.71	7.51	0.00	
5/17/24 12:24	1.72	7.52	0.00	
5/17/24 12:25	1.73	7.51	0.03	
5/17/24 12:26	1.72	7.51	0.00	
5/17/24 12:27	1.71	7.51	0.00	
5/17/24 12:28	1.74	7.50	0.00	
5/17/24 12:29	1.72	7.51	0.00	
5/17/24 12:30	1.73	7.50	0.00	
5/17/24 12:31	1.70	7.52	0.00	
5/17/24 12:32	1.72	7.50	0.00	
5/17/24 12:33	1.71	7.52	0.00	
5/17/24 12:34	1.71	7.51	0.00	
5/17/24 12:35	1.76	7.50	0.00	
5/17/24 12:36	1.72	7.52	0.00	
5/17/24 12:37	1.72	7.52	0.03	
5/17/24 12:38	1.72	7.52	0.00	
5/17/24 12:39	1.69	7.54	0.52	
5/17/24 12:40	1.69	7.52	0.00	
5/17/24 12:41	1.68	7.53	0.00	
5/17/24 12:42	1.67	7.53	0.00	
5/17/24 12:43	1.68	7.53	11.57	
5/17/24 12:44	1.72	7.51	15.02	
5/17/24 12:45	1.73	7.51	7.02	
5/17/24 12:46	1.73	7.51	0.03	
5/17/24 12:47	1.73	7.50	0.00	
5/17/24 12:48	1.71	7.52	0.00	
5/17/24 12:49	1.72	7.52	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 12:50	1.70	7.54	0.00	
5/17/24 12:51	1.71	7.53	0.00	
5/17/24 12:52	1.72	7.51	0.00	
5/17/24 12:53	1.71	7.52	0.00	
5/17/24 12:54	1.75	7.50	0.07	
5/17/24 12:55	1.75	7.52	0.00	
5/17/24 12:56	1.74	7.51	0.00	
5/17/24 12:57	1.76	7.50	0.00	
5/17/24 12:58	1.71	7.52	0.00	
5/17/24 12:59	1.70	7.52	0.00	
5/17/24 13:00	1.68	7.54	0.00	
5/17/24 13:01	1.68	7.55	0.00	
5/17/24 13:02	1.68	7.55	0.00	
5/17/24 13:03	1.70	7.55	0.00	
5/17/24 13:04	1.71	7.53	0.00	
5/17/24 13:05	1.73	7.52	0.00	
5/17/24 13:06	1.72	7.53	0.00	
5/17/24 13:07	1.74	7.52	0.00	
5/17/24 13:08	1.72	7.53	0.00	
5/17/24 13:09	1.73	7.53	0.00	
5/17/24 13:10	1.74	7.51	0.00	
5/17/24 13:11	1.69	7.53	0.01	
5/17/24 13:12	1.73	7.52	0.00	
5/17/24 13:13	1.71	7.54	0.00	
5/17/24 13:14	1.71	7.53	0.00	
5/17/24 13:15	1.74	7.52	0.00	
5/17/24 13:16	1.69	7.56	0.00	
5/17/24 13:17	1.72	7.53	0.00	
5/17/24 13:18	1.69	7.56	0.03	
5/17/24 13:19	1.72	7.54	0.00	
5/17/24 13:20	1.72	7.54	0.01	
5/17/24 13:21	1.76	7.52	0.00	
5/17/24 13:22	1.75	7.53	0.00	
5/17/24 13:23	1.79	7.51	0.01	
5/17/24 13:24	1.75	7.52	0.00	
5/17/24 13:25	1.79	7.51	0.00	
5/17/24 13:26	1.78	7.52	0.00	
5/17/24 13:27	1.79	7.52	0.00	
5/17/24 13:28	1.81	7.50	0.00	
5/17/24 13:29	1.81	7.50	0.00	
5/17/24 13:30	1.76	7.53	0.00	
5/17/24 13:31	1.78	7.51	0.00	
5/17/24 13:32	1.70	7.56	0.00	
5/17/24 13:33	1.70	7.56	0.00	
5/17/24 13:34	1.73	7.55	0.00	
5/17/24 13:35	1.78	7.52	0.00	
5/17/24 13:36	1.77	7.53	0.00	
5/17/24 13:37	1.78	7.52	0.00	
5/17/24 13:38	1.79	7.52	0.00	
5/17/24 13:39	1.79	7.51	0.00	
5/17/24 13:40	1.74	7.53	0.00	
5/17/24 13:41	1.76	7.51	0.00	
5/17/24 13:42	1.73	7.53	0.00	
5/17/24 13:43	1.76	7.52	0.00	
5/17/24 13:44	1.80	7.50	0.00	
5/17/24 13:45	1.77	7.52	0.00	
5/17/24 13:46	1.75	7.54	0.00	
5/17/24 13:47	1.75	7.53	0.00	
5/17/24 13:48	1.74	7.54	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 13:49	1.76	7.52	0.59	
5/17/24 13:50	1.75	7.52	0.00	
5/17/24 13:51	1.74	7.52	13.58	
5/17/24 13:52	1.73	7.53	14.84	
5/17/24 13:53	1.76	7.51	7.68	
5/17/24 13:54	1.72	7.53	0.00	
5/17/24 13:55	1.72	7.52	0.00	
5/17/24 13:56	1.72	7.52	0.00	
5/17/24 13:57	1.80	7.49	0.00	
5/17/24 13:58	1.78	7.50	0.00	
5/17/24 13:59	1.79	7.51	0.00	
5/17/24 14:00	1.74	7.52	0.00	
5/17/24 14:01	1.74	7.52	0.00	
5/17/24 14:02	1.71	7.53	0.00	
5/17/24 14:03	1.74	7.52	0.00	
5/17/24 14:04	1.74	7.52	0.00	
5/17/24 14:05	1.75	7.52	0.00	
5/17/24 14:06	1.77	7.50	0.00	
5/17/24 14:07	1.75	7.52	0.00	
5/17/24 14:08	1.73	7.52	0.00	
5/17/24 14:09	1.73	7.52	0.00	
5/17/24 14:10	1.72	7.53	0.00	
5/17/24 14:11	1.72	7.53	0.00	
5/17/24 14:12	1.76	7.53	0.00	
5/17/24 14:13	1.77	7.51	0.00	
5/17/24 14:14	1.73	7.53	0.00	
5/17/24 14:15	1.72	7.53	0.00	
5/17/24 14:16	1.74	7.52	0.00	
5/17/24 14:17	1.68	7.57	0.00	
5/17/24 14:18	1.74	7.54	0.00	
5/17/24 14:19	1.76	7.52	0.00	
5/17/24 14:20	1.75	7.52	0.00	
5/17/24 14:21	1.73	7.53	0.00	
5/17/24 14:22	1.73	7.53	0.00	
5/17/24 14:23	1.72	7.53	0.00	
5/17/24 14:24	1.69	7.55	0.00	
5/17/24 14:25	1.73	7.53	0.00	
5/17/24 14:26	1.70	7.54	0.00	
5/17/24 14:27	1.70	7.53	0.00	
5/17/24 14:28	1.73	7.51	0.00	
5/17/24 14:29	1.74	7.52	0.00	
5/17/24 14:30	1.77	7.50	0.00	
5/17/24 14:31	1.79	7.49	0.00	
5/17/24 14:32	1.77	7.50	0.00	
5/17/24 14:33	1.75	7.51	0.00	
5/17/24 14:34	1.75	7.51	0.00	
5/17/24 14:35	1.77	7.49	0.11	
5/17/24 14:36	1.76	7.50	0.00	
5/17/24 14:37	1.69	7.53	0.00	
5/17/24 14:38	1.71	7.52	0.00	
5/17/24 14:39	1.75	7.50	0.00	
5/17/24 14:40	1.72	7.52	0.00	
5/17/24 14:41	1.74	7.51	0.00	
5/17/24 14:42	1.73	7.52	0.00	
5/17/24 14:43	1.78	7.48	0.00	
5/17/24 14:44	1.77	7.50	0.00	
5/17/24 14:45	1.74	7.51	0.00	
5/17/24 14:46	1.75	7.51	0.00	
5/17/24 14:47	1.74	7.51	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 14:48	1.77	7.50	0.00	
5/17/24 14:49	1.75	7.52	0.00	
5/17/24 14:50	1.72	7.54	0.00	
5/17/24 14:51	1.75	7.53	0.00	
5/17/24 14:52	1.72	7.53	0.00	
5/17/24 14:53	1.71	7.52	0.00	
5/17/24 14:54	1.72	7.51	0.00	
5/17/24 14:55	1.70	7.54	0.00	
5/17/24 14:56	1.74	7.51	0.00	
5/17/24 14:57	1.73	7.52	0.00	
5/17/24 14:58	1.73	7.53	0.00	
5/17/24 14:59	1.72	7.54	0.00	
5/17/24 15:00	1.75	7.52	0.00	
5/17/24 15:01	1.73	7.52	0.00	
5/17/24 15:02	1.70	7.53	0.00	
5/17/24 15:03	1.73	7.53	0.00	
5/17/24 15:04	1.75	7.51	0.00	
5/17/24 15:05	1.72	7.52	0.00	
5/17/24 15:06	1.70	7.52	0.00	
5/17/24 15:07	1.72	7.51	0.00	
5/17/24 15:08	1.71	7.52	0.00	
5/17/24 15:09	1.73	7.51	0.00	
5/17/24 15:10	1.73	7.51	0.00	
5/17/24 15:11	1.74	7.51	3.53	
5/17/24 15:12	1.75	7.50	13.82	
5/17/24 15:13	1.73	7.51	14.42	
5/17/24 15:14	1.74	7.51	14.90	
5/17/24 15:15	1.74	7.50	15.14	
5/17/24 15:16	1.74	7.50	15.29	
5/17/24 15:17	1.73	7.51	15.29	
5/17/24 15:18	1.75	7.50	15.47	
5/17/24 15:19	1.75	7.50	8.56	
5/17/24 15:20	1.74	7.51	0.01	
5/17/24 15:21	1.76	7.51	0.00	
5/17/24 15:22	1.79	7.48	0.00	
5/17/24 15:23	1.77	7.50	0.00	
5/17/24 15:24	1.77	7.49	0.00	
5/17/24 15:25	1.77	7.49	0.00	
5/17/24 15:26	1.75	7.50	0.00	
5/17/24 15:27	1.76	7.49	0.00	
5/17/24 15:28	1.76	7.50	0.00	
5/17/24 15:29	1.73	7.52	0.00	
5/17/24 15:30	1.76	7.50	0.00	
5/17/24 15:31	1.76	7.50	0.00	
5/17/24 15:32	1.75	7.51	0.00	
5/17/24 15:33	1.76	7.52	0.00	
5/17/24 15:34	1.75	7.53	0.00	
5/17/24 15:35	1.73	7.54	0.00	
5/17/24 15:36	1.71	7.55	0.00	
5/17/24 15:37	1.74	7.52	0.00	
5/17/24 15:38	1.71	7.54	0.00	
5/17/24 15:39	1.73	7.53	0.00	
5/17/24 15:40	1.75	7.52	0.00	
5/17/24 15:41	1.71	7.53	0.00	
5/17/24 15:42	1.74	7.51	0.00	
5/17/24 15:43	1.80	7.49	0.00	
5/17/24 15:44	1.72	7.54	0.49	
5/17/24 15:45	1.74	7.54	0.00	
5/17/24 15:46	1.68	7.56	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/17/24 15:47	1.70	7.55	10.72	
5/17/24 15:48	1.73	7.54	14.96	
5/17/24 15:49	2.29	6.13	10.44	
5/17/24 15:50	0.06	0.07	73.89	
5/17/24 15:51	0.05	0.04	75.28	
5/17/24 15:52	0.05	0.03	76.04	
5/17/24 15:53	0.05	0.02	76.07	
5/17/24 15:54	1.64	1.36	63.59	
5/17/24 15:55	2.27	7.59	0.08	
5/17/24 15:56	1.76	7.51	0.00	
5/17/24 15:57	1.75	7.51	0.00	
5/17/24 15:58	1.73	7.52	0.00	
5/17/24 15:59	4.27	8.15	0.00	
5/17/24 16:00	11.02	10.81	0.00	
5/17/24 16:01	11.02	10.84	0.70	
New Week same stack				
5/20/24 9:00	18.01	0.01	2.78	
5/20/24 9:01	2.38	2.22	2.80	
5/20/24 9:02	23.11	22.14	2.57	
5/20/24 9:03	16.87	15.89	2.33	
5/20/24 9:04	10.96	10.80	2.31	
5/20/24 9:05	18.02	17.31	2.26	
5/20/24 9:06	19.39	18.77	2.32	
5/20/24 9:07	18.39	17.92	2.15	
5/20/24 9:08	18.39	17.91	2.16	
5/20/24 9:09	16.13	15.65	5.94	
5/20/24 9:10	11.54	11.38	0.02	
5/20/24 9:11	6.21	6.10	0.02	
5/20/24 9:12	3.58	3.59	0.00	
5/20/24 9:13	2.31	2.37	0.00	
5/20/24 9:14	5.84	5.81	0.00	
5/20/24 9:15	10.99	10.85	0.11	
5/20/24 9:16	11.60	11.47	0.02	
5/20/24 9:17	20.71	20.05	0.00	
5/20/24 9:18	19.16	18.57	0.00	
5/20/24 9:19	18.40	17.93	0.00	
5/20/24 9:20	17.52	16.98	0.00	
5/20/24 9:21	11.53	11.39	39.16	
5/20/24 9:22	11.51	11.37	80.10	
5/20/24 9:23	7.72	7.58	80.16	
5/20/24 9:24	3.96	4.00	79.99	
5/20/24 9:25	2.28	2.37	80.14	
5/20/24 9:26	7.16	7.12	16.05	
5/20/24 9:27	10.98	10.86	0.00	
5/20/24 9:28	14.76	14.46	0.00	
5/20/24 9:29	20.68	20.04	0.00	
5/20/24 9:30	18.83	18.26	0.00	
5/20/24 9:31	18.08	17.52	0.00	
5/20/24 9:32	11.53	11.40	0.62	
5/20/24 9:33	9.00	8.83	5.88	
5/20/24 9:34	4.62	4.71	6.88	
5/20/24 9:35	2.68	2.74	7.09	
5/20/24 9:36	2.29	2.38	7.08	
5/20/24 9:37	2.59	2.67	7.24	
5/20/24 9:38	10.99	10.86	7.14	
5/20/24 9:39	10.99	10.87	7.17	
5/20/24 9:40	11.33	5.37	7.27	
5/20/24 9:41	3.06	4.00	7.19	
5/20/24 9:42	0.02	0.01	7.28	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/20/24 9:43	0.02	0.00	7.20	Direct Calibrations
5/20/24 9:44	0.02	0.00	7.22	Zeros
5/20/24 9:45	0.03	0.00	4.05	
5/20/24 9:46	0.03	0.00	0.00	
5/20/24 9:47	16.96	16.09	0.55	
5/20/24 9:48	22.86	21.98	1.12	
5/20/24 9:49	22.87	22.02	0.00	
5/20/24 9:50	22.88	22.04	0.00	
5/20/24 9:51	22.89	22.21	0.00	
5/20/24 9:52	22.89	22.82	0.00	Highs
5/20/24 9:53	22.17	21.99	0.00	
5/20/24 9:54	10.94	11.00	0.00	
5/20/24 9:55	10.93	10.93	0.00	Mids
5/20/24 9:56	10.85	10.81	0.00	
5/20/24 9:57	0.26	0.26	0.01	Initial Bias (run 7)
5/20/24 9:58	0.05	0.05	0.00	Zeros
5/20/24 9:59	0.71	0.69	0.02	
5/20/24 10:00	10.88	10.79	0.19	
5/20/24 10:01	10.92	10.87	0.00	Mids
5/20/24 10:02	8.85	10.11	0.01	
5/20/24 10:03	1.73	7.56	0.00	
5/20/24 10:04	1.74	7.56	0.04	
5/20/24 10:05	1.72	7.57	0.00	
5/20/24 10:06	1.73	7.55	0.00	
5/20/24 10:07	1.69	7.57	0.02	
5/20/24 10:08	1.68	7.58	0.00	
5/20/24 10:09	1.70	7.57	0.02	
5/20/24 10:10	1.74	7.55	0.00	
5/20/24 10:11	1.75	7.54	0.00	
5/20/24 10:12	1.73	7.56	0.01	
5/20/24 10:13	1.74	7.55	0.00	
5/20/24 10:14	1.74	7.54	0.00	
5/20/24 10:15	1.73	7.56	0.00	
5/20/24 10:16	1.75	7.55	0.01	
5/20/24 10:17	1.72	7.57	0.11	
5/20/24 10:18	1.73	7.56	0.00	
5/20/24 10:19	1.71	7.57	0.29	
5/20/24 10:20	1.75	7.56	0.00	
5/20/24 10:21	1.69	7.60	0.00	
5/20/24 10:22	1.74	7.57	0.01	
5/20/24 10:23	1.73	7.58	0.00	
5/20/24 10:24	1.72	7.58	0.04	
5/20/24 10:25	1.69	7.59	68.50	
5/20/24 10:26	1.69	7.59	78.51	
5/20/24 10:27	1.70	7.58	78.68	
5/20/24 10:28	1.72	7.57	78.86	
5/20/24 10:29	1.68	7.59	59.47	
5/20/24 10:30	1.73	7.56	21.81	
5/20/24 10:31	2.05	7.61	3.85	
5/20/24 10:32	1.77	7.55	0.33	
5/20/24 10:33	1.78	7.54	0.02	
5/20/24 10:34	1.74	7.56	0.04	
5/20/24 10:35	1.72	7.56	0.00	
5/20/24 10:36	1.78	7.53	0.00	
5/20/24 10:37	1.75	7.55	0.05	Initial Cals THC (run 7)
5/20/24 10:38	2.59	7.81	0.00	Zero
5/20/24 10:39	1.71	7.58	36.87	
5/20/24 10:40	1.72	7.56	25.23	High
5/20/24 10:41	1.70	7.58	20.18	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/20/24 10:42	1.75	7.54	9.06	Low
5/20/24 10:43	1.74	7.55	11.96	
5/20/24 10:44	1.71	7.56	15.01	Mid
5/20/24 10:45	1.75	7.54	8.54	
5/20/24 10:46	1.75	7.54	0.00	Zero
5/20/24 10:47	1.77	7.54	7.60	
5/20/24 10:48	1.73	7.55	14.98	Mid
5/20/24 10:49	1.72	7.57	7.81	
5/20/24 10:50	1.71	7.56	0.00	
5/20/24 10:51	1.73	7.55	0.02	
5/20/24 10:52	1.71	7.57	0.00	
5/20/24 10:53	1.75	7.54	0.00	
5/20/24 10:54	1.74	7.55	0.02	
5/20/24 10:55	1.79	7.51	0.00	Run 7
5/20/24 10:56	1.81	7.50	0.03	
5/20/24 10:57	1.79	7.53	0.00	
5/20/24 10:58	1.75	7.55	0.00	
5/20/24 10:59	1.73	7.56	0.03	
5/20/24 11:00	1.72	7.57	0.00	
5/20/24 11:01	1.73	7.55	0.02	
5/20/24 11:02	1.72	7.55	0.02	
5/20/24 11:03	1.71	7.56	0.67	
5/20/24 11:04	1.73	7.55	0.03	
5/20/24 11:05	1.73	7.55	0.01	
5/20/24 11:06	1.73	7.55	0.01	
5/20/24 11:07	1.77	7.52	0.00	
5/20/24 11:08	1.72	7.54	0.00	
5/20/24 11:09	1.71	7.55	0.02	
5/20/24 11:10	1.70	7.56	0.00	
5/20/24 11:11	1.71	7.56	0.02	
5/20/24 11:12	1.72	7.56	0.00	
5/20/24 11:13	1.71	7.56	0.00	
5/20/24 11:14	1.69	7.58	0.00	
5/20/24 11:15	1.70	7.58	0.00	
5/20/24 11:16	1.72	7.56	0.03	
5/20/24 11:17	1.66	7.59	0.00	
5/20/24 11:18	1.68	7.58	0.01	
5/20/24 11:19	1.69	7.58	0.00	
5/20/24 11:20	1.67	7.59	0.04	
5/20/24 11:21	1.72	7.56	0.00	
5/20/24 11:22	1.74	7.55	0.00	
5/20/24 11:23	1.73	7.55	0.04	
5/20/24 11:24	1.75	7.55	0.00	
5/20/24 11:25	1.74	7.57	0.01	
5/20/24 11:26	1.71	7.58	0.02	
5/20/24 11:27	1.69	7.59	0.00	
5/20/24 11:28	1.68	7.59	0.01	
5/20/24 11:29	1.76	7.55	0.00	
5/20/24 11:30	1.74	7.55	0.00	
5/20/24 11:31	1.72	7.56	0.01	
5/20/24 11:32	1.72	7.55	0.00	
5/20/24 11:33	1.71	7.56	0.01	
5/20/24 11:34	1.73	7.54	0.02	
5/20/24 11:35	1.72	7.56	0.00	
5/20/24 11:36	1.77	7.53	0.00	
5/20/24 11:37	1.75	7.54	0.00	
5/20/24 11:38	1.76	7.54	0.00	
5/20/24 11:39	1.68	7.58	0.00	
5/20/24 11:40	1.74	7.55	0.00	



BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/20/24 11:41	1.79	7.53	0.02	
5/20/24 11:42	1.74	7.55	0.03	
5/20/24 11:43	1.69	7.58	0.01	
5/20/24 11:44	1.66	7.58	0.00	
5/20/24 11:45	1.71	7.56	0.00	
5/20/24 11:46	1.70	7.56	0.03	
5/20/24 11:47	1.73	7.55	0.00	
5/20/24 11:48	1.71	7.56	0.01	
5/20/24 11:49	1.72	7.56	0.00	
5/20/24 11:50	1.71	7.56	0.00	
5/20/24 11:51	1.70	7.57	0.02	
5/20/24 11:52	1.72	7.54	0.00	
5/20/24 11:53	1.73	7.53	0.00	
5/20/24 11:54	1.78	7.51	0.00	
5/20/24 11:55	1.76	7.53	0.00	
5/20/24 11:56	1.70	7.56	0.80	
5/20/24 11:57	1.71	7.56	0.00	
5/20/24 11:58	1.71	7.57	0.00	
5/20/24 11:59	1.71	7.56	0.01	
5/20/24 12:00	1.72	7.56	12.89	
5/20/24 12:01	1.73	7.55	14.88	
5/20/24 12:02	1.69	7.55	15.15	
5/20/24 12:03	1.72	7.53	1.11	
5/20/24 12:04	1.74	7.52	0.00	
5/20/24 12:05	1.72	7.52	0.00	
5/20/24 12:06	1.71	7.53	0.02	
5/20/24 12:07	1.71	7.54	0.01	
5/20/24 12:08	1.71	7.53	0.01	
5/20/24 12:09	1.75	7.51	0.00	
5/20/24 12:10	1.75	7.50	0.00	
5/20/24 12:11	1.74	7.51	0.02	
5/20/24 12:12	1.74	7.53	0.00	
5/20/24 12:13	1.73	7.54	0.23	
5/20/24 12:14	1.71	7.55	0.00	
5/20/24 12:15	1.69	7.56	0.00	
5/20/24 12:16	1.67	7.56	0.00	
5/20/24 12:17	1.72	7.54	0.00	
5/20/24 12:18	1.71	7.55	0.02	
5/20/24 12:19	1.75	7.53	0.00	
5/20/24 12:20	1.69	7.55	0.00	
5/20/24 12:21	1.72	7.53	0.04	
5/20/24 12:22	1.74	7.52	0.00	
5/20/24 12:23	1.76	7.52	0.01	
5/20/24 12:24	1.73	7.53	0.00	
5/20/24 12:25	1.69	7.55	0.00	
5/20/24 12:26	1.75	7.53	0.02	
5/20/24 12:27	1.69	7.57	0.00	
5/20/24 12:28	1.70	7.56	0.01	
5/20/24 12:29	1.71	7.54	0.00	
5/20/24 12:30	1.73	7.53	0.00	
5/20/24 12:31	1.71	7.53	0.03	
5/20/24 12:32	1.70	7.54	0.00	
5/20/24 12:33	1.72	7.53	0.01	
5/20/24 12:34	1.73	7.52	0.00	
5/20/24 12:35	1.72	7.54	0.01	
5/20/24 12:36	1.71	7.54	0.01	
5/20/24 12:37	1.72	7.52	0.00	
5/20/24 12:38	1.70	7.53	0.01	
5/20/24 12:39	1.75	7.51	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/20/24 12:40	1.71	7.53	0.01	
5/20/24 12:41	1.68	7.57	0.00	
5/20/24 12:42	1.75	7.53	0.00	
5/20/24 12:43	1.73	7.54	0.01	
5/20/24 12:44	1.76	7.52	0.00	
5/20/24 12:45	1.75	7.53	0.01	
5/20/24 12:46	1.74	7.52	0.00	
5/20/24 12:47	1.73	7.52	0.00	
5/20/24 12:48	1.73	7.52	0.01	
5/20/24 12:49	1.76	7.52	0.00	
5/20/24 12:50	1.77	7.51	0.00	
5/20/24 12:51	1.76	7.52	0.00	
5/20/24 12:52	1.73	7.53	0.00	
5/20/24 12:53	1.79	7.49	0.00	
5/20/24 12:54	1.74	7.52	0.00	
5/20/24 12:55	1.70	7.55	0.06	
5/20/24 12:56	1.73	7.53	0.00	
5/20/24 12:57	1.73	7.53	0.00	
5/20/24 12:58	1.74	7.53	0.00	
5/20/24 12:59	1.71	7.53	0.00	
5/20/24 13:00	1.71	7.53	0.00	
5/20/24 13:01	1.71	7.54	0.00	
5/20/24 13:02	1.75	7.51	0.00	
5/20/24 13:03	1.73	7.52	0.00	
5/20/24 13:04	1.77	7.51	0.70	
5/20/24 13:05	1.70	7.54	0.00	
5/20/24 13:06	1.72	7.54	6.83	
5/20/24 13:07	1.72	7.54	14.70	
5/20/24 13:08	1.71	7.54	15.07	
5/20/24 13:09	1.73	7.52	7.85	
5/20/24 13:10	1.72	7.54	0.01	
5/20/24 13:11	1.73	7.54	0.00	
5/20/24 13:12	1.72	7.54	0.00	
5/20/24 13:13	1.72	7.54	0.00	
5/20/24 13:14	1.72	7.54	0.00	
5/20/24 13:15	1.74	7.53	0.02	
5/20/24 13:16	1.73	7.54	0.00	
5/20/24 13:17	1.73	7.55	0.01	
5/20/24 13:18	1.73	7.54	0.01	
5/20/24 13:19	1.74	7.54	0.00	
5/20/24 13:20	1.76	7.54	0.01	
5/20/24 13:21	1.76	7.53	0.00	
5/20/24 13:22	1.74	7.55	0.01	
5/20/24 13:23	1.73	7.55	0.00	
5/20/24 13:24	1.74	7.55	0.00	
5/20/24 13:25	1.74	7.54	0.01	
5/20/24 13:26	1.77	7.52	0.00	
5/20/24 13:27	1.77	7.53	0.02	
5/20/24 13:28	1.77	7.51	0.00	
5/20/24 13:29	1.79	7.51	0.00	
5/20/24 13:30	1.81	7.51	0.01	
5/20/24 13:31	1.74	7.54	0.00	
5/20/24 13:32	1.75	7.54	0.01	
5/20/24 13:33	1.74	7.54	0.00	
5/20/24 13:34	1.73	7.54	0.01	
5/20/24 13:35	1.72	7.55	0.00	
5/20/24 13:36	1.73	7.53	0.00	
5/20/24 13:37	1.73	7.55	0.00	
5/20/24 13:38	1.78	7.52	0.00	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/20/24 13:39	1.72	7.54	0.01	
5/20/24 13:40	1.74	7.53	0.00	
5/20/24 13:41	1.75	7.52	0.00	
5/20/24 13:42	1.72	7.54	0.02	
5/20/24 13:43	1.74	7.53	0.00	
5/20/24 13:44	1.72	7.54	0.01	
5/20/24 13:45	1.70	7.56	0.01	
5/20/24 13:46	1.70	7.55	0.00	
5/20/24 13:47	1.72	7.55	0.04	
5/20/24 13:48	1.75	7.53	0.00	
5/20/24 13:49	1.74	7.54	0.00	
5/20/24 13:50	1.73	7.54	0.02	
5/20/24 13:51	1.71	7.56	0.00	
5/20/24 13:52	1.72	7.55	0.00	
5/20/24 13:53	1.72	7.55	0.00	
5/20/24 13:54	1.76	7.53	0.00	
5/20/24 13:55	1.75	7.54	0.00	
5/20/24 13:56	1.73	7.55	0.00	
5/20/24 13:57	1.76	7.54	0.00	
5/20/24 13:58	1.77	7.53	0.00	
5/20/24 13:59	1.76	7.53	0.01	
5/20/24 14:00	1.76	7.54	0.00	
5/20/24 14:01	1.73	7.56	0.00	
5/20/24 14:02	1.72	7.55	0.02	
5/20/24 14:03	1.76	7.53	0.00	
5/20/24 14:04	1.74	7.54	0.01	
5/20/24 14:05	1.75	7.53	0.00	
5/20/24 14:06	1.73	7.55	0.00	
5/20/24 14:07	1.72	7.56	0.02	
5/20/24 14:08	1.74	7.55	0.00	
5/20/24 14:09	1.74	7.55	0.64	
5/20/24 14:10	1.74	7.55	0.01	
5/20/24 14:11	1.73	7.56	7.24	
5/20/24 14:12	1.72	7.56	14.82	
5/20/24 14:13	1.73	7.55	15.00	
5/20/24 14:14	1.74	7.54	8.40	
5/20/24 14:15	1.71	7.55	0.00	
5/20/24 14:16	1.71	7.55	0.00	
5/20/24 14:17	1.73	7.53	0.00	
5/20/24 14:18	1.74	7.54	0.00	
5/20/24 14:19	1.72	7.55	0.02	
5/20/24 14:20	1.71	7.56	0.00	
5/20/24 14:21	1.68	7.58	0.00	
5/20/24 14:22	1.72	7.55	0.00	
5/20/24 14:23	1.74	7.55	0.00	
5/20/24 14:24	1.74	7.55	0.03	
5/20/24 14:25	1.75	7.55	0.00	
5/20/24 14:26	1.73	7.55	0.00	
5/20/24 14:27	1.69	7.57	0.03	
5/20/24 14:28	1.69	7.58	0.00	
5/20/24 14:29	1.71	7.56	0.01	
5/20/24 14:30	1.71	7.55	0.00	
5/20/24 14:31	1.70	7.56	0.00	
5/20/24 14:32	1.72	7.55	0.01	
5/20/24 14:33	1.72	7.55	0.00	
5/20/24 14:34	1.72	7.55	0.00	
5/20/24 14:35	1.72	7.55	0.00	
5/20/24 14:36	1.71	7.56	0.00	
5/20/24 14:37	1.70	7.56	0.01	

BASF - Freeport, TX  
Incinerator IN-701 CSV Data

Time	O2	CO2	THC	Notes
5/20/24 14:38	1.72	7.55	0.00	
5/20/24 14:39	1.72	7.54	0.03	
5/20/24 14:40	1.72	7.55	0.00	
5/20/24 14:41	1.70	7.56	0.00	
5/20/24 14:42	1.71	7.55	0.01	
5/20/24 14:43	1.67	7.58	0.00	
5/20/24 14:44	1.74	7.53	0.02	
5/20/24 14:45	1.73	7.54	0.00	
5/20/24 14:46	1.76	7.51	0.00	
5/20/24 14:47	1.73	7.53	0.05	
5/20/24 14:48	1.72	7.54	0.00	
5/20/24 14:49	1.69	7.55	0.02	
5/20/24 14:50	1.71	7.55	0.00	
5/20/24 14:51	1.73	7.53	0.00	
5/20/24 14:52	1.74	7.52	0.00	
5/20/24 14:53	1.71	7.54	0.00	
5/20/24 14:54	1.71	7.54	0.01	
5/20/24 14:55	1.72	7.53	0.00	
5/20/24 14:56	1.72	7.52	0.02	
5/20/24 14:57	1.69	7.54	0.00	
5/20/24 14:58	1.71	7.52	0.00	
5/20/24 14:59	1.69	7.53	0.04	
5/20/24 15:00	1.71	7.53	0.00	
5/20/24 15:01	1.73	7.51	0.55	
5/20/24 15:02	1.70	7.54	0.03	
5/20/24 15:03	1.68	7.54	0.00	
5/20/24 15:04	1.72	7.52	5.83	
5/20/24 15:05	1.70	7.54	14.99	
5/20/24 15:06	1.56	5.02	7.63	
5/20/24 15:07	0.07	0.06	0.10	
5/20/24 15:08	0.06	0.03	0.00	
5/20/24 15:09	2.43	2.07	0.02	
5/20/24 15:10	22.81	21.66	0.00	
5/20/24 15:11	14.43	13.79	0.15	
5/20/24 15:12	10.94	10.88	0.70	
5/20/24 15:13	10.94	10.88	0.74	

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/14/2024	1:44:43 PM	191.5	1.006	-0.41	0.02	-0.03	-0.01
5/14/2024	1:45:46 PM	191.5	1.006	-0.37	0.02	0.03	0.00
5/14/2024	1:46:49 PM	191.5	1.006	-0.36	0.02	0.01	-0.01
5/14/2024	1:47:52 PM	191.5	1.006	-0.36	0.02	-0.03	0.00
5/14/2024	1:48:55 PM	191.5	1.005	-0.44	0.02	-0.04	0.00
5/14/2024	1:49:58 PM	191.5	1.005	-0.45	0.02	0.04	0.00
5/14/2024	1:51:01 PM	191.5	1.005	-0.36	0.02	0.09	0.00
5/14/2024	1:52:04 PM	191.5	1.005	-0.36	0.02	0.01	0.00
5/14/2024	1:55:15 PM	191.5	1.005	0.00	0.00	0.00	0.00
5/14/2024	1:56:24 PM	191.5	1.005	-0.03	0.00	0.00	0.00
5/14/2024	1:57:27 PM	191.5	1.005	0.01	0.01	-0.05	0.00
5/14/2024	1:58:30 PM	191.6	1.005	-0.05	0.02	40.85	-0.06
5/14/2024	1:59:33 PM	191.6	1.005	-0.02	0.00	98.60	-0.01
5/14/2024	2:00:35 PM	191.5	1.005	-0.10	0.00	98.70	-0.01
5/14/2024	2:01:38 PM	191.5	1.005	-0.02	-0.01	98.75	-0.01
5/14/2024	2:02:41 PM	191.5	1.005	-0.07	0.00	98.74	-0.02
5/14/2024	2:03:44 PM	191.5	1.005	-0.05	0.01	14.02	-0.02
5/14/2024	2:04:47 PM	191.5	1.005	0.00	0.00	-0.09	0.00
5/14/2024	2:05:50 PM	191.5	1.005	0.01	0.00	-0.04	0.00
5/14/2024	2:06:53 PM	191.4	1.005	0.02	0.00	-0.08	0.00
5/14/2024	2:07:56 PM	191.4	1.006	0.02	0.01	0.00	0.00
5/14/2024	2:08:58 PM	191.5	1.005	-0.02	0.01	-0.03	0.00
5/14/2024	2:10:01 PM	191.5	1.005	-0.05	0.00	-0.02	0.00
5/14/2024	2:11:04 PM	191.4	1.005	0.02	0.00	-0.04	0.00
5/14/2024	2:12:07 PM	191.4	1.005	-0.02	0.00	-0.08	0.00
5/14/2024	2:13:10 PM	191.4	1.005	-0.06	0.00	-0.03	0.00
5/14/2024	2:14:13 PM	191.4	1.005	0.05	0.00	-0.10	0.00
5/14/2024	2:15:16 PM	191.4	1.005	0.01	0.01	0.00	0.00
5/14/2024	2:16:19 PM	191.4	1.005	0.04	0.00	-0.01	0.00
5/14/2024	2:17:21 PM	191.5	1.005	0.02	0.00	-0.02	0.00
5/14/2024	2:18:24 PM	191.5	1.005	-0.05	0.00	-0.01	0.00
5/14/2024	2:19:27 PM	191.5	1.005	-0.03	0.00	0.01	0.00
5/14/2024	2:20:30 PM	191.5	1.005	-0.02	0.00	-0.04	0.00
5/14/2024	2:21:33 PM	191.4	1.005	-0.09	0.00	-0.03	0.00
5/14/2024	2:22:36 PM	191.4	1.005	0.06	0.00	0.01	0.01
5/14/2024	2:23:39 PM	191.4	1.005	11.53	0.02	2.11	1.15
5/14/2024	2:24:42 PM	191.5	1.004	80.03	0.01	-0.85	9.50
5/14/2024	2:25:45 PM	191.6	1.004	83.88	0.00	-0.95	9.52
5/14/2024	2:26:47 PM	191.7	1.004	84.86	0.00	-0.82	9.50
5/14/2024	2:27:50 PM	191.6	1.005	86.20	-0.01	-0.78	9.52
5/14/2024	2:28:53 PM	191.6	1.005	86.89	-0.01	-0.82	9.56
5/14/2024	2:29:56 PM	191.6	1.005	87.26	-0.01	-0.58	9.63
5/14/2024	2:30:59 PM	191.5	1.005	86.81	-0.01	-0.38	9.59
5/14/2024	2:32:02 PM	191.5	1.005	87.33	-0.01	-0.32	9.63
5/14/2024	2:33:05 PM	191.5	1.005	88.14	-0.01	-0.41	9.71
5/14/2024	2:34:52 PM	1.0	0.000	88.20	-0.01	-0.28	191.46
5/14/2024	2:35:55 PM	1.0	0.000	88.20	-0.01	-0.30	191.44
5/14/2024	2:36:58 PM	1.0	0.000	88.32	-0.01	-0.45	191.44
5/14/2024	2:38:01 PM	1.0	0.000	88.17	-0.01	-0.50	191.45
5/14/2024	2:39:04 PM	1.0	0.000	88.32	-0.01	-0.40	191.49
5/14/2024	2:40:07 PM	1.0	0.000	88.18	-0.02	-0.46	191.50
5/14/2024	2:41:09 PM	1.0	0.000	88.05	-0.02	-0.46	191.51
5/14/2024	2:42:12 PM	1.0	0.000	87.94	-0.01	-0.39	191.51
5/14/2024	2:43:15 PM	1.0	0.000	86.53	-0.01	-0.78	191.56
5/14/2024	2:44:18 PM	1.0	0.000	19.58	-0.01	2.33	191.65
5/14/2024	2:45:21 PM	1.0	0.000	0.34	-0.01	-0.03	191.58
5/14/2024	2:46:24 PM	1.0	0.000	0.30	0.00	-0.08	191.54
5/14/2024	2:47:27 PM	1.0	0.000	0.24	0.00	-0.01	191.54
5/14/2024	2:48:30 PM	1.0	0.000	0.27	-0.01	-0.01	191.51
5/14/2024	2:49:32 PM	1.0	0.000	0.13	-0.01	-0.01	191.51
5/14/2024	2:50:35 PM	1.0	0.000	0.19	-0.01	-0.02	191.51
5/14/2024	2:51:38 PM	1.0	0.000	0.08	-0.01	-0.07	191.52
5/14/2024	2:52:41 PM	1.0	0.000	0.16	-0.01	-0.01	191.50

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/14/2024	2:53:44 PM	1.0	0.000	0.17	0.00	-0.08	191.49
5/14/2024	2:54:47 PM	1.0	0.000	0.07	-0.01	-0.06	191.51
5/14/2024	2:55:49 PM	1.0	0.000	0.13	0.00	0.00	191.51
5/14/2024	2:56:52 PM	1.0	0.000	0.14	-0.01	-0.08	191.51
5/14/2024	2:57:55 PM	1.0	0.000	0.17	-0.01	-0.03	191.51
5/14/2024	2:58:58 PM	1.0	0.000	0.10	-0.01	-0.02	191.54
5/14/2024	3:00:01 PM	1.0	0.000	4.01	1.93	0.02	191.57
5/14/2024	3:01:04 PM	1.0	0.000	2.73	3.69	0.12	191.65
5/14/2024	3:02:06 PM	1.0	0.000	1.53	3.77	0.11	191.67
5/14/2024	3:03:09 PM	1.0	0.000	1.03	3.85	0.17	191.70
5/14/2024	3:04:12 PM	1.0	0.000	0.94	3.94	0.18	191.74
5/14/2024	3:05:15 PM	1.0	0.000	0.75	4.03	0.05	191.74
5/14/2024	3:06:18 PM	1.0	0.000	1.19	4.05	0.10	191.77
5/14/2024	3:07:21 PM	1.0	0.000	1.22	4.04	0.09	191.74
5/14/2024	3:08:24 PM	1.0	0.000	0.73	4.08	0.06	191.74
5/14/2024	3:09:27 PM	1.0	0.000	0.60	4.15	0.05	191.74
5/14/2024	3:10:29 PM	1.0	0.000	0.53	4.21	-0.04	191.76
5/14/2024	3:11:32 PM	1.0	0.000	0.60	4.25	0.04	191.76
5/14/2024	3:12:35 PM	1.0	0.000	0.64	4.29	0.19	191.78
5/14/2024	3:13:38 PM	1.0	0.000	0.64	4.36	0.17	191.77
5/14/2024	3:14:41 PM	1.0	0.000	0.55	4.40	0.19	191.80
5/14/2024	3:15:44 PM	1.0	0.000	0.64	4.45	0.10	191.81
5/14/2024	3:16:46 PM	1.0	0.000	0.55	4.52	0.05	191.77
5/14/2024	3:17:49 PM	1.0	0.000	0.55	4.56	0.18	191.77
5/14/2024	3:18:52 PM	1.0	0.000	0.48	4.60	0.19	191.77
5/14/2024	3:19:55 PM	1.0	0.000	0.54	4.63	0.16	191.76
5/14/2024	3:20:58 PM	1.0	0.000	0.48	4.64	0.15	191.74
5/14/2024	3:22:01 PM	1.0	0.000	0.58	4.67	0.20	191.74
5/14/2024	3:23:04 PM	1.0	0.000	0.51	4.70	9.17	191.76
5/14/2024	3:24:06 PM	1.0	0.000	0.55	4.71	2.04	191.75
5/14/2024	3:25:09 PM	1.0	0.000	0.58	4.74	0.38	191.75
5/14/2024	3:26:12 PM	1.0	0.000	0.47	4.77	51.35	191.76
5/14/2024	3:27:15 PM	1.0	0.000	0.39	4.77	91.92	191.76
5/14/2024	3:28:18 PM	1.0	0.000	0.44	4.78	93.32	191.78
5/14/2024	3:29:21 PM	1.0	0.000	0.32	4.79	93.49	191.75
5/14/2024	3:30:24 PM	1.0	0.000	0.47	4.83	93.65	191.76
5/14/2024	3:31:26 PM	1.0	0.000	0.42	4.84	93.44	191.78
5/14/2024	3:32:29 PM	1.0	0.000	0.44	4.90	93.19	191.78
5/14/2024	3:33:32 PM	1.0	0.000	0.44	4.93	93.15	191.76
5/14/2024	3:34:35 PM	1.0	0.000	0.60	4.83	90.85	191.77
5/14/2024	3:35:38 PM	1.0	0.000	0.59	4.53	84.39	191.80
5/14/2024	3:36:41 PM	1.0	0.000	0.69	4.51	84.07	191.75
5/14/2024	3:37:44 PM	1.0	0.000	0.80	4.49	84.09	191.76
5/14/2024	3:38:47 PM	1.0	0.000	1.02	4.48	83.90	191.73
5/14/2024	3:39:49 PM	1.0	0.000	1.09	4.48	83.86	191.74
5/14/2024	3:40:52 PM	1.0	0.000	1.05	4.44	83.36	191.76
5/14/2024	3:41:55 PM	1.0	0.000	1.18	4.44	83.35	191.73
5/14/2024	3:42:58 PM	1.0	0.000	1.21	4.39	82.99	191.73
5/14/2024	3:44:01 PM	1.0	0.000	1.10	4.12	77.73	191.74
5/14/2024	3:45:04 PM	1.0	0.000	0.60	3.58	47.48	191.75
5/14/2024	3:46:07 PM	1.0	0.000	0.34	3.28	12.57	191.71
5/14/2024	3:47:10 PM	1.0	0.000	0.19	2.68	10.83	191.41
5/14/2024	3:48:12 PM	1.0	0.000	0.26	2.37	15.71	191.28
5/14/2024	3:49:15 PM	1.0	0.000	0.20	1.98	17.04	191.16
5/14/2024	3:50:18 PM	1.0	0.000	0.07	1.65	17.56	191.13
5/14/2024	3:51:21 PM	1.0	0.000	-0.01	1.57	17.44	191.12
5/14/2024	3:52:24 PM	1.0	0.000	0.05	1.61	17.54	191.08
5/14/2024	3:53:27 PM	1.0	0.000	0.08	1.70	19.16	191.05
5/14/2024	3:54:30 PM	1.0	0.000	0.09	1.59	9.66	191.05
5/14/2024	3:55:33 PM	1.0	0.000	0.05	1.65	12.44	190.92
5/14/2024	3:56:35 PM	1.0	0.000	0.08	1.85	13.06	190.88
5/14/2024	3:57:38 PM	1.0	0.000	0.04	1.78	4.50	190.88
5/14/2024	3:58:41 PM	1.0	0.000	0.06	1.76	8.89	191.03
5/14/2024	3:59:44 PM	1.0	0.000	0.06	1.76	18.35	191.06

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/14/2024	4:00:47 PM	0.9	0.000	0.07	4.14	87.87	191.14
5/14/2024	4:01:50 PM	0.9	0.000	0.13	6.18	94.66	191.12
5/14/2024	4:02:53 PM	0.9	0.000	0.21	7.50	93.12	191.16
5/14/2024	4:03:56 PM	0.9	0.000	0.26	8.31	92.45	191.14
5/14/2024	4:04:58 PM	0.9	0.000	0.13	6.55	94.10	191.12
5/14/2024	4:06:01 PM	0.9	0.000	0.22	5.89	94.90	191.21
5/14/2024	4:07:04 PM	0.9	0.000	0.16	5.31	95.59	191.17
5/14/2024	4:08:07 PM	0.9	0.000	0.28	5.02	14.65	191.24
5/14/2024	4:09:10 PM	0.9	0.000	0.27	4.95	0.36	191.24
5/14/2024	4:10:13 PM	0.9	0.000	0.31	4.98	0.18	191.26
5/14/2024	4:11:16 PM	0.9	0.000	0.40	6.13	0.22	191.29
5/14/2024	4:12:19 PM	0.9	0.000	0.44	10.22	0.31	191.22
5/14/2024	4:13:21 PM	0.9	0.000	0.45	17.38	0.19	191.10
5/14/2024	4:14:24 PM	0.9	0.000	0.28	17.44	0.36	191.08
5/14/2024	4:15:27 PM	0.9	0.000	0.40	17.30	0.32	191.08
5/14/2024	4:16:30 PM	0.9	0.000	11.56	19.60	5.95	191.02
5/14/2024	4:17:33 PM	0.9	0.000	47.86	13.94	0.55	191.13
5/14/2024	4:18:36 PM	0.9	0.000	13.00	11.61	0.80	191.16
5/14/2024	4:19:39 PM	0.9	0.000	0.51	12.69	0.25	191.17
5/14/2024	4:20:42 PM	0.9	0.000	0.57	17.36	0.32	191.20
5/14/2024	4:21:44 PM	0.9	0.000	0.57	17.23	0.15	191.20
5/14/2024	4:22:47 PM	1.0	0.000	1.14	16.33	0.42	191.43
5/14/2024	4:23:50 PM	1.0	0.000	1.29	16.51	0.44	191.63
5/14/2024	4:24:53 PM	1.0	0.000	1.58	16.69	0.36	191.70
5/14/2024	4:25:56 PM	1.0	0.000	1.61	16.84	0.40	191.73
5/14/2024	4:26:59 PM	1.0	0.000	1.85	16.87	0.45	191.76
5/14/2024	4:28:02 PM	1.0	0.000	1.71	15.74	0.55	191.74
5/14/2024	4:29:05 PM	0.9	0.000	12.03	17.55	1.17	191.42
5/14/2024	4:30:07 PM	0.9	0.000	20.96	18.53	1.19	191.20
5/14/2024	4:31:10 PM	0.9	0.000	4.62	13.45	0.24	191.16
5/14/2024	4:32:13 PM	0.9	0.000	5.52	14.68	0.19	191.20
5/14/2024	4:33:16 PM	0.9	0.000	4.90	20.70	0.27	191.19
5/14/2024	4:34:19 PM	0.9	0.000	4.71	16.12	0.19	191.08
5/14/2024	4:35:22 PM	0.9	0.000	4.93	15.67	0.10	191.16
5/14/2024	4:36:25 PM	0.9	0.000	4.75	15.93	0.20	191.17
5/14/2024	4:37:28 PM	1.0	0.000	4.59	14.72	0.16	191.41
5/14/2024	4:38:30 PM	1.0	0.000	3.52	15.63	0.21	191.59
5/14/2024	4:39:33 PM	1.0	0.000	3.59	15.99	0.26	191.71
5/14/2024	4:40:36 PM	1.0	0.000	3.74	15.01	0.22	191.76
5/14/2024	4:41:39 PM	1.0	0.000	3.80	14.11	0.22	191.78
5/14/2024	4:42:42 PM	1.0	0.000	3.89	15.80	0.29	191.75
5/14/2024	4:43:45 PM	0.9	0.000	1.32	17.66	0.30	191.13
5/14/2024	4:44:48 PM	1.0	0.000	0.80	19.16	0.38	191.32
5/14/2024	4:45:51 PM	1.0	0.000	0.43	3.57	0.04	191.60
5/14/2024	4:46:53 PM	1.0	0.000	0.61	6.32	0.25	191.69
5/14/2024	4:47:56 PM	1.0	0.000	1.15	13.76	0.35	191.72
5/14/2024	4:48:59 PM	1.0	0.000	0.95	13.47	0.32	191.75
5/14/2024	4:50:02 PM	1.0	0.000	0.74	13.48	0.30	191.76
5/14/2024	4:51:05 PM	1.0	0.000	1.86	12.79	0.41	191.76
5/14/2024	4:52:08 PM	1.0	0.000	1.12	12.66	0.14	191.76
5/14/2024	4:53:11 PM	0.9	0.000	0.19	10.99	-0.07	191.33
5/14/2024	4:54:14 PM	0.9	0.000	-0.08	22.00	0.32	191.01
5/14/2024	4:55:17 PM	0.9	0.000	0.25	10.62	0.19	190.93
5/14/2024	4:56:19 PM	0.9	0.000	0.26	6.76	0.12	191.00
5/14/2024	4:57:22 PM	0.9	0.000	0.22	5.43	0.10	191.04
5/15/2024	7:17:47 AM	1.0	0.000	0.08	0.00	-0.02	191.48
5/15/2024	7:20:05 AM	1.0	0.000	0.00	0.00	0.00	191.40
5/15/2024	7:21:14 AM	1.0	0.000	0.05	-0.01	0.01	191.37
5/15/2024	7:22:17 AM	1.0	0.000	-0.03	-0.01	67.99	191.39
5/15/2024	7:23:20 AM	1.0	0.000	0.05	-0.01	98.36	191.46
5/15/2024	7:24:22 AM	1.0	0.000	0.03	-0.02	98.92	191.51
5/15/2024	7:25:25 AM	1.0	0.000	-0.06	-0.02	99.06	191.51
5/15/2024	7:26:28 AM	1.0	0.000	0.11	1.00	51.87	191.51
5/15/2024	7:27:31 AM	0.9	0.000	0.17	3.73	-0.02	191.29

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	7:28:34 AM	0.9	0.000	0.18	3.91	0.12	191.17
5/15/2024	7:29:37 AM	0.9	0.000	0.12	7.36	0.15	191.08
5/15/2024	7:30:40 AM	0.9	0.000	0.12	8.81	0.21	191.05
5/15/2024	7:31:43 AM	0.9	0.000	0.14	6.73	0.05	191.09
5/15/2024	7:32:45 AM	0.9	0.000	-0.02	5.46	-0.02	191.05
5/15/2024	7:33:48 AM	0.9	0.000	0.06	4.67	0.18	191.06
5/15/2024	7:34:51 AM	0.9	0.000	0.21	4.36	0.11	191.09
5/15/2024	7:35:54 AM	0.9	0.000	0.18	4.18	0.07	191.14
5/15/2024	7:36:57 AM	0.9	0.000	0.13	3.98	0.07	191.14
5/15/2024	7:38:00 AM	0.9	0.000	0.17	3.93	0.02	191.13
5/15/2024	7:39:03 AM	0.9	0.000	0.16	3.85	0.10	191.08
5/15/2024	7:40:05 AM	0.9	0.000	0.13	3.51	0.03	191.04
5/15/2024	7:41:08 AM	0.9	0.000	0.06	2.72	0.07	191.12
5/15/2024	7:42:11 AM	0.9	0.000	0.17	2.22	0.06	191.13
5/15/2024	7:43:14 AM	0.9	0.000	-0.06	1.89	-0.05	191.14
5/15/2024	7:44:17 AM	0.9	0.000	-0.08	1.63	0.06	191.10
5/15/2024	7:45:20 AM	0.9	0.000	-0.10	1.41	0.07	191.13
5/15/2024	7:46:23 AM	0.9	0.000	-0.15	1.21	0.05	191.17
5/15/2024	7:47:26 AM	0.9	0.000	-0.10	1.03	0.01	191.17
5/15/2024	7:48:28 AM	0.9	0.000	-0.15	0.96	0.03	191.25
5/15/2024	7:49:31 AM	0.9	0.000	-0.15	0.83	0.16	191.25
5/15/2024	7:50:34 AM	0.9	0.000	-0.19	0.73	0.02	191.24
5/15/2024	7:51:37 AM	0.9	0.000	0.04	2.15	0.18	191.27
5/15/2024	7:52:40 AM	0.9	0.000	0.22	3.04	0.15	191.21
5/15/2024	7:53:43 AM	0.9	0.000	0.21	3.45	0.21	191.26
5/15/2024	7:54:46 AM	0.9	0.000	0.28	6.16	0.22	191.28
5/15/2024	7:55:49 AM	0.9	0.000	0.24	13.90	0.35	191.20
5/15/2024	7:56:51 AM	0.9	0.000	0.14	17.04	0.30	191.11
5/15/2024	7:57:54 AM	0.9	0.000	0.20	18.93	0.37	191.12
5/15/2024	7:58:57 AM	0.9	0.000	0.26	17.67	0.35	191.06
5/15/2024	8:00:00 AM	0.9	0.000	0.20	18.35	0.35	191.11
5/15/2024	8:01:03 AM	0.9	0.000	0.13	18.41	0.36	191.10
5/15/2024	8:02:06 AM	0.9	0.000	0.10	19.91	0.21	191.13
5/15/2024	8:03:09 AM	0.9	0.000	0.18	19.34	0.27	191.13
5/15/2024	8:04:12 AM	0.9	0.000	0.16	18.24	0.31	191.14
5/15/2024	8:05:14 AM	0.9	0.000	0.22	15.70	0.29	191.09
5/15/2024	8:06:17 AM	0.9	0.000	0.31	19.37	0.29	191.10
5/15/2024	8:07:20 AM	0.9	0.000	0.24	19.98	0.21	191.04
5/15/2024	8:08:23 AM	0.9	0.000	0.15	20.51	0.37	191.09
5/15/2024	8:09:26 AM	0.9	0.000	0.02	20.88	0.19	191.13
5/15/2024	8:10:29 AM	0.9	0.000	0.20	20.48	0.26	191.15
5/15/2024	8:11:32 AM	0.9	0.000	0.13	19.14	0.33	191.17
5/15/2024	8:12:35 AM	0.9	0.000	0.05	19.61	0.35	191.18
5/15/2024	8:13:37 AM	0.9	0.000	0.22	21.40	0.27	191.17
5/15/2024	8:14:40 AM	0.9	0.000	0.13	19.96	0.24	191.11
5/15/2024	8:15:43 AM	1.0	0.000	0.48	15.31	0.32	191.29
5/15/2024	8:16:46 AM	1.0	0.000	-0.18	36.94	0.11	191.38
5/15/2024	8:17:49 AM	1.0	0.000	-0.11	34.72	0.76	191.55
5/15/2024	8:18:52 AM	1.0	0.000	0.31	26.89	0.56	191.67
5/15/2024	8:19:55 AM	0.9	0.000	0.69	18.90	0.12	191.58
5/15/2024	8:20:58 AM	0.9	0.000	0.23	15.43	0.20	191.32
5/15/2024	8:22:00 AM	0.9	0.000	-0.08	23.12	0.46	191.14
5/15/2024	8:23:03 AM	0.9	0.000	0.02	21.30	0.26	191.13
5/15/2024	8:24:06 AM	0.9	0.000	0.09	20.52	0.30	191.10
5/15/2024	8:25:09 AM	0.9	0.000	0.05	22.04	0.31	191.09
5/15/2024	8:26:12 AM	0.9	0.000	0.05	20.70	0.35	191.08
5/15/2024	8:27:15 AM	0.9	0.000	0.15	19.72	0.31	191.08
5/15/2024	8:28:18 AM	1.0	0.000	0.47	14.85	0.36	191.22
5/15/2024	8:29:21 AM	1.0	0.000	0.72	20.89	0.45	191.56
5/15/2024	8:30:23 AM	1.0	0.000	0.50	23.35	0.52	191.68
5/15/2024	8:31:26 AM	1.0	0.000	0.60	18.66	0.41	191.76
5/15/2024	8:32:29 AM	1.0	0.000	0.69	16.63	0.19	191.69
5/15/2024	8:33:32 AM	0.9	0.000	0.21	13.59	0.28	191.29
5/15/2024	8:34:35 AM	0.9	0.000	-0.22	23.83	0.34	191.09



BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	8:35:38 AM	0.9	0.000	-0.04	21.30	0.34	191.10
5/15/2024	8:36:41 AM	0.9	0.000	-0.02	21.24	0.18	191.12
5/15/2024	8:37:44 AM	0.9	0.000	0.15	18.83	0.33	191.09
5/15/2024	8:38:46 AM	0.9	0.000	0.01	21.80	0.23	191.09
5/15/2024	8:39:49 AM	0.9	0.000	0.11	19.41	0.33	191.08
5/15/2024	8:40:52 AM	0.9	0.000	-0.03	20.56	0.35	191.09
5/15/2024	8:41:55 AM	0.9	0.000	0.33	18.98	0.37	191.16
5/15/2024	8:42:58 AM	1.0	0.000	0.53	20.86	0.40	191.52
5/15/2024	8:44:01 AM	1.0	0.000	0.56	21.50	0.48	191.65
5/15/2024	8:45:04 AM	1.0	0.000	0.57	21.22	0.46	191.73
5/15/2024	8:46:07 AM	1.0	0.000	0.64	21.12	0.52	191.77
5/15/2024	8:47:09 AM	1.0	0.000	0.66	21.15	0.47	191.78
5/15/2024	8:48:12 AM	1.0	0.000	0.72	21.00	0.45	191.77
5/15/2024	8:49:15 AM	1.0	0.000	0.86	21.61	0.21	191.76
5/15/2024	8:50:18 AM	1.0	0.000	0.09	34.49	0.76	191.71
5/15/2024	8:51:21 AM	1.0	0.000	0.63	13.48	0.19	191.80
5/15/2024	8:52:24 AM	1.0	0.000	0.57	11.72	0.28	191.79
5/15/2024	8:53:27 AM	1.0	0.000	0.55	11.22	0.23	191.78
5/15/2024	8:54:30 AM	1.0	0.000	0.49	10.81	0.29	191.80
5/15/2024	8:55:32 AM	1.0	0.000	0.50	10.36	0.31	191.80
5/15/2024	8:56:35 AM	1.0	0.000	0.53	10.40	0.22	191.81
5/15/2024	8:57:38 AM	1.0	0.000	0.56	10.47	0.29	191.84
5/15/2024	8:58:41 AM	1.0	0.000	0.57	10.23	0.31	191.83
5/15/2024	8:59:44 AM	1.0	0.000	0.56	9.90	0.25	191.82
5/15/2024	9:00:47 AM	1.0	0.000	0.41	9.85	0.15	191.79
5/15/2024	9:01:50 AM	0.9	0.000	0.19	7.83	0.22	191.38
5/15/2024	9:02:53 AM	0.9	0.000	-0.71	24.72	0.07	190.66
5/15/2024	9:03:56 AM	0.9	0.000	-0.16	14.24	-0.01	190.75
5/15/2024	9:04:58 AM	0.9	0.000	0.07	8.02	0.08	190.96
5/15/2024	9:06:01 AM	0.9	0.000	0.11	6.24	0.00	191.12
5/15/2024	9:07:04 AM	0.9	0.000	0.32	5.81	0.21	191.28
5/15/2024	9:08:07 AM	0.9	0.000	0.08	5.53	0.34	191.32
5/15/2024	9:09:10 AM	0.9	0.000	0.24	5.40	0.17	191.31
5/15/2024	9:10:13 AM	0.9	0.000	0.19	11.22	0.34	191.27
5/15/2024	9:11:16 AM	0.9	0.000	0.20	13.26	0.25	191.25
5/15/2024	9:12:19 AM	0.9	0.000	0.21	17.70	0.31	191.26
5/15/2024	9:13:21 AM	0.9	0.000	0.19	19.56	0.16	191.27
5/15/2024	9:14:24 AM	0.9	0.000	0.15	18.61	0.34	191.23
5/15/2024	9:15:27 AM	0.9	0.000	0.23	19.28	0.21	191.23
5/15/2024	9:16:30 AM	0.9	0.000	0.22	18.20	0.23	191.24
5/15/2024	9:17:33 AM	0.9	0.000	-0.01	23.24	0.36	191.21
5/15/2024	9:18:36 AM	0.9	0.000	0.21	19.13	0.23	191.22
5/15/2024	9:19:39 AM	0.9	0.000	0.03	20.83	0.27	191.22
5/15/2024	9:20:42 AM	0.9	0.000	0.23	18.90	0.29	191.24
5/15/2024	9:21:45 AM	0.9	0.000	-0.14	24.89	0.26	191.25
5/15/2024	9:22:47 AM	0.9	0.000	0.21	15.69	0.22	191.22
5/15/2024	9:23:50 AM	0.9	0.000	0.19	19.62	0.16	191.25
5/15/2024	9:24:53 AM	0.9	0.000	0.00	24.19	0.34	191.28
5/15/2024	9:25:56 AM	1.0	0.000	0.41	23.63	0.46	191.39
5/15/2024	9:26:59 AM	1.0	0.000	0.30	27.50	0.52	191.60
5/15/2024	9:28:02 AM	1.0	0.000	0.34	25.29	0.45	191.69
5/15/2024	9:29:05 AM	1.0	0.000	0.51	21.00	0.35	191.73
5/15/2024	9:30:08 AM	1.0	0.000	0.64	18.03	0.33	191.78
5/15/2024	9:31:10 AM	0.9	0.000	0.28	10.95	0.33	191.48
5/15/2024	9:32:13 AM	0.9	0.000	0.06	20.60	0.34	191.36
5/15/2024	9:33:16 AM	0.9	0.000	-0.16	23.81	0.33	191.32
5/15/2024	9:34:19 AM	0.9	0.000	0.02	21.20	0.25	191.21
5/15/2024	9:35:22 AM	0.9	0.000	0.34	18.59	0.33	191.23
5/15/2024	9:36:25 AM	0.9	0.000	0.28	19.22	0.29	191.23
5/15/2024	9:37:28 AM	0.9	0.000	0.18	16.00	0.23	191.27
5/15/2024	9:38:31 AM	0.9	0.000	0.17	19.59	0.27	191.22
5/15/2024	9:39:33 AM	0.9	0.000	-0.07	21.22	0.26	191.25
5/15/2024	9:40:36 AM	0.9	0.000	0.13	15.76	0.24	191.26
5/15/2024	9:41:39 AM	0.9	0.000	-0.28	24.89	0.44	191.19

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	9:42:42 AM	0.9	0.000	0.19	17.68	0.36	191.19
5/15/2024	9:43:45 AM	1.0	0.000	0.45	13.17	0.27	191.32
5/15/2024	9:44:48 AM	1.0	0.000	0.63	21.50	0.37	191.49
5/15/2024	9:45:51 AM	1.0	0.000	0.22	28.58	0.45	191.60
5/15/2024	9:46:54 AM	1.0	0.000	0.31	26.81	0.51	191.67
5/15/2024	9:47:57 AM	1.0	0.000	0.52	23.23	0.47	191.69
5/15/2024	9:49:00 AM	0.9	0.000	0.39	13.93	0.17	191.44
5/15/2024	9:50:02 AM	0.9	0.000	0.16	20.67	0.27	191.30
5/15/2024	9:51:05 AM	0.9	0.000	-0.19	23.73	0.30	191.14
5/15/2024	9:52:08 AM	0.9	0.000	0.06	20.99	0.23	191.16
5/15/2024	9:53:11 AM	0.9	0.000	-0.13	22.58	0.38	191.19
5/15/2024	9:54:14 AM	0.9	0.000	0.24	17.97	0.26	191.21
5/15/2024	9:55:17 AM	0.9	0.000	0.01	20.75	0.28	191.21
5/15/2024	9:56:20 AM	0.9	0.000	0.06	20.94	0.20	191.23
5/15/2024	9:57:23 AM	0.9	0.000	0.42	16.95	0.10	191.25
5/15/2024	9:58:25 AM	0.9	0.000	0.22	15.92	0.19	191.16
5/15/2024	9:59:28 AM	0.9	0.000	0.02	20.45	0.28	191.25
5/15/2024	10:00:31 AM	0.9	0.000	0.33	18.66	0.25	191.26
5/15/2024	10:01:34 AM	1.0	0.000	0.41	27.24	0.35	191.41
5/15/2024	10:02:37 AM	1.0	0.000	-0.14	33.08	0.61	191.56
5/15/2024	10:03:40 AM	1.0	0.000	0.26	27.98	0.56	191.70
5/15/2024	10:04:43 AM	1.0	0.000	0.37	24.79	0.49	191.75
5/15/2024	10:05:46 AM	1.0	0.000	0.43	24.86	0.53	191.78
5/15/2024	10:06:48 AM	1.0	0.000	0.43	24.55	0.50	191.83
5/15/2024	10:07:51 AM	0.9	0.000	0.09	13.57	-0.43	191.48
5/15/2024	10:08:54 AM	0.9	0.000	0.44	18.15	0.22	191.37
5/15/2024	10:09:57 AM	0.9	0.000	-0.20	24.54	0.30	191.32
5/15/2024	10:11:00 AM	0.9	0.000	0.08	17.71	0.07	191.29
5/15/2024	10:12:03 AM	0.9	0.000	0.03	17.65	0.07	191.32
5/15/2024	10:13:06 AM	0.9	0.000	-0.01	11.83	0.07	191.31
5/15/2024	10:14:09 AM	0.9	0.000	0.14	6.45	0.13	191.33
5/15/2024	10:15:12 AM	0.9	0.000	0.09	5.47	0.11	191.36
5/15/2024	10:16:14 AM	0.9	0.000	0.28	5.16	0.22	191.36
5/15/2024	10:17:17 AM	0.9	0.000	0.23	5.09	0.18	191.35
5/15/2024	10:18:20 AM	0.9	0.000	0.32	8.20	0.13	191.37
5/15/2024	10:19:23 AM	0.9	0.000	0.23	16.17	0.29	191.34
5/15/2024	10:20:26 AM	0.9	0.000	0.24	18.29	0.23	191.34
5/15/2024	10:21:29 AM	0.9	0.000	0.31	17.04	0.24	191.30
5/15/2024	10:22:32 AM	0.9	0.000	0.02	21.32	0.15	191.28
5/15/2024	10:23:35 AM	0.9	0.000	0.12	16.10	0.20	191.28
5/15/2024	10:24:37 AM	0.9	0.000	0.32	18.50	0.23	191.29
5/15/2024	10:25:40 AM	0.9	0.000	-0.27	24.65	0.33	191.29
5/15/2024	10:26:43 AM	0.9	0.000	0.40	18.70	0.29	191.27
5/15/2024	10:27:46 AM	0.9	0.000	0.38	19.68	0.16	191.31
5/15/2024	10:28:49 AM	0.9	0.000	0.26	16.84	0.28	191.33
5/15/2024	10:29:52 AM	0.9	0.000	0.04	21.32	0.29	191.31
5/15/2024	10:30:55 AM	0.9	0.000	0.13	19.49	0.31	191.28
5/15/2024	10:31:58 AM	0.9	0.000	0.29	16.95	0.21	191.29
5/15/2024	10:33:01 AM	0.9	0.000	0.10	20.58	0.23	191.30
5/15/2024	10:34:04 AM	0.9	0.000	0.08	21.34	0.23	191.31
5/15/2024	10:35:06 AM	0.9	0.000	0.24	19.25	0.24	191.27
5/15/2024	10:36:09 AM	0.9	0.000	0.04	21.47	0.20	191.27
5/15/2024	10:37:12 AM	0.9	0.000	0.22	19.53	0.09	191.28
5/15/2024	10:38:15 AM	0.9	0.000	0.05	20.56	0.35	191.28
5/15/2024	10:39:18 AM	0.9	0.000	0.15	18.67	0.23	191.19
5/15/2024	10:40:21 AM	0.9	0.000	0.15	21.20	0.32	191.22
5/15/2024	10:41:24 AM	0.9	0.000	0.09	20.49	0.25	191.26
5/15/2024	10:42:26 AM	0.9	0.000	0.13	16.17	0.28	191.25
5/15/2024	10:43:29 AM	0.9	0.000	0.06	20.39	0.17	191.24
5/15/2024	10:44:32 AM	0.9	0.000	-0.02	22.89	0.25	191.29
5/15/2024	10:45:35 AM	0.9	0.000	0.14	19.37	0.28	191.28
5/15/2024	10:46:38 AM	0.9	0.000	0.21	19.70	0.25	191.30
5/15/2024	10:47:41 AM	0.9	0.000	0.11	20.42	0.22	191.29
5/15/2024	10:48:44 AM	0.9	0.000	0.14	20.62	0.27	191.25

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	10:49:47 AM	0.9	0.000	0.23	18.19	0.23	191.32
5/15/2024	10:50:50 AM	0.9	0.000	0.41	19.33	0.24	191.30
5/15/2024	10:51:52 AM	0.9	0.000	0.19	20.36	0.10	191.33
5/15/2024	10:52:55 AM	0.9	0.000	0.19	18.03	0.20	191.31
5/15/2024	10:53:58 AM	0.9	0.000	0.32	16.39	0.22	191.31
5/15/2024	10:55:01 AM	0.9	0.000	0.12	21.87	0.27	191.31
5/15/2024	10:56:04 AM	0.9	0.000	0.05	21.36	0.23	191.31
5/15/2024	10:57:07 AM	0.9	0.000	0.48	17.92	0.25	191.24
5/15/2024	10:58:10 AM	0.9	0.000	0.32	16.31	0.19	191.31
5/15/2024	10:59:13 AM	0.9	0.000	0.07	21.45	0.21	191.29
5/15/2024	11:00:16 AM	0.9	0.000	0.82	17.94	0.09	191.29
5/15/2024	11:01:18 AM	0.9	0.000	0.19	15.56	0.13	191.08
5/15/2024	11:02:21 AM	0.9	0.000	-0.10	25.09	0.27	191.10
5/15/2024	11:03:24 AM	0.9	0.000	0.43	18.33	0.23	191.14
5/15/2024	11:04:27 AM	0.9	0.000	0.61	20.34	0.17	191.24
5/15/2024	11:05:30 AM	0.9	0.000	0.23	18.78	0.22	191.25
5/15/2024	11:06:33 AM	0.9	0.000	0.41	19.66	0.17	191.29
5/15/2024	11:07:36 AM	0.9	0.000	0.28	17.75	0.29	191.33
5/15/2024	11:08:39 AM	0.9	0.000	0.03	22.83	0.22	191.31
5/15/2024	11:09:41 AM	0.9	0.000	0.34	17.68	0.21	191.20
5/15/2024	11:10:44 AM	0.9	0.000	0.41	18.09	0.12	191.26
5/15/2024	11:11:47 AM	0.9	0.000	0.08	21.57	0.20	191.24
5/15/2024	11:12:50 AM	0.9	0.000	0.20	19.74	0.24	191.18
5/15/2024	11:13:53 AM	0.9	0.000	0.40	15.51	0.03	191.29
5/15/2024	11:14:56 AM	0.9	0.000	0.41	18.98	0.25	191.30
5/15/2024	11:15:59 AM	0.9	0.000	0.06	19.41	-0.04	191.33
5/15/2024	11:17:02 AM	0.9	0.000	0.14	14.12	0.07	191.33
5/15/2024	11:18:04 AM	0.9	0.000	0.19	9.66	0.09	191.33
5/15/2024	11:19:07 AM	0.9	0.000	0.25	6.13	0.13	191.35
5/15/2024	11:20:10 AM	0.9	0.000	0.20	5.49	0.10	191.34
5/15/2024	11:21:13 AM	0.9	0.000	0.17	5.14	0.11	191.34
5/15/2024	11:22:16 AM	0.9	0.000	0.30	5.07	0.21	191.35
5/15/2024	11:23:19 AM	0.9	0.000	0.29	4.92	0.23	191.35
5/15/2024	11:24:22 AM	0.9	0.000	0.77	8.79	0.01	191.35
5/15/2024	11:25:25 AM	0.9	0.000	-0.04	21.66	0.37	190.95
5/15/2024	11:26:28 AM	0.9	0.000	0.26	15.58	0.08	191.11
5/15/2024	11:27:30 AM	0.9	0.000	0.15	17.09	0.09	191.25
5/15/2024	11:28:33 AM	0.9	0.000	0.03	21.21	0.29	191.21
5/15/2024	11:29:36 AM	0.9	0.000	0.37	16.91	0.32	191.26
5/15/2024	11:30:39 AM	0.9	0.000	0.36	12.96	0.17	191.30
5/15/2024	11:31:42 AM	0.9	0.000	0.54	18.07	0.12	191.24
5/15/2024	11:32:45 AM	0.9	0.000	-0.58	28.73	0.15	191.13
5/15/2024	11:33:48 AM	0.9	0.000	0.09	19.95	0.21	191.07
5/15/2024	11:34:51 AM	0.9	0.000	0.29	13.93	0.09	191.22
5/15/2024	11:35:54 AM	0.9	0.000	0.44	17.38	0.09	191.32
5/15/2024	11:36:56 AM	0.9	0.000	0.64	17.72	0.17	191.35
5/15/2024	11:37:59 AM	0.9	0.000	0.14	21.29	0.15	191.36
5/15/2024	11:39:02 AM	0.9	0.000	0.28	15.99	0.11	191.35
5/15/2024	11:40:05 AM	0.9	0.000	0.22	16.62	0.09	191.33
5/15/2024	11:41:08 AM	0.9	0.000	0.27	19.63	0.25	191.36
5/15/2024	11:42:11 AM	0.9	0.000	0.06	20.75	0.19	191.33
5/15/2024	11:43:14 AM	0.9	0.000	0.30	15.11	0.08	191.35
5/15/2024	11:44:17 AM	0.9	0.000	0.31	16.30	0.07	191.23
5/15/2024	11:45:20 AM	0.9	0.000	-0.06	22.80	0.27	191.25
5/15/2024	11:46:22 AM	0.9	0.000	-0.07	22.96	0.28	191.30
5/15/2024	11:47:25 AM	0.9	0.000	0.29	17.46	0.27	191.29
5/15/2024	11:48:28 AM	0.9	0.000	0.53	18.91	0.27	191.35
5/15/2024	11:49:31 AM	0.9	0.000	0.46	16.94	0.14	191.34
5/15/2024	11:50:34 AM	0.9	0.000	0.17	19.96	0.25	191.32
5/15/2024	11:51:37 AM	0.9	0.000	0.03	22.08	0.33	191.34
5/15/2024	11:52:40 AM	0.9	0.000	0.42	17.71	0.19	191.34
5/15/2024	11:53:43 AM	0.9	0.000	0.51	18.51	0.03	191.35
5/15/2024	11:54:45 AM	0.9	0.000	0.35	17.78	0.25	191.34
5/15/2024	11:55:48 AM	0.9	0.000	0.31	17.94	0.17	191.33

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	11:56:51 AM	0.9	0.000	0.13	20.92	0.26	191.31
5/15/2024	11:57:54 AM	0.9	0.000	0.11	21.58	0.12	191.23
5/15/2024	11:58:57 AM	0.9	0.000	0.16	22.01	0.24	191.21
5/15/2024	12:00:00 PM	0.9	0.000	0.44	16.96	0.09	191.26
5/15/2024	12:01:03 PM	0.9	0.000	0.31	15.61	0.14	191.32
5/15/2024	12:02:06 PM	0.9	0.000	0.47	17.95	0.08	191.32
5/15/2024	12:03:09 PM	0.9	0.000	0.01	23.54	0.28	191.31
5/15/2024	12:04:11 PM	0.9	0.000	0.00	22.74	0.26	191.29
5/15/2024	12:05:14 PM	0.9	0.000	0.36	21.56	0.02	191.31
5/15/2024	12:06:17 PM	0.9	0.000	0.60	18.25	0.12	190.99
5/15/2024	12:07:20 PM	0.9	0.000	0.46	19.57	0.16	191.19
5/15/2024	12:08:23 PM	0.9	0.000	0.46	17.41	0.25	191.33
5/15/2024	12:09:26 PM	0.9	0.000	0.01	22.81	0.24	191.33
5/15/2024	12:10:29 PM	0.9	0.000	0.33	18.77	0.15	191.35
5/15/2024	12:11:32 PM	0.9	0.000	0.23	12.00	0.20	191.38
5/15/2024	12:12:35 PM	0.9	0.000	0.14	21.79	0.19	191.35
5/15/2024	12:13:37 PM	0.9	0.000	0.03	22.46	0.21	191.34
5/15/2024	12:14:40 PM	0.9	0.000	0.47	19.26	0.25	191.34
5/15/2024	12:15:43 PM	0.9	0.000	0.35	17.39	0.25	191.36
5/15/2024	12:16:46 PM	0.9	0.000	0.16	19.51	0.19	191.35
5/15/2024	12:17:49 PM	0.9	0.000	0.26	20.72	-0.05	191.35
5/15/2024	12:18:52 PM	0.9	0.000	0.32	15.53	0.19	191.35
5/15/2024	12:19:55 PM	0.9	0.000	0.14	20.80	0.12	191.35
5/15/2024	12:20:58 PM	0.9	0.000	0.32	18.19	0.02	191.36
5/15/2024	12:22:00 PM	0.9	0.000	0.17	16.06	-0.04	191.36
5/15/2024	12:23:03 PM	0.9	0.000	0.00	11.84	-0.03	191.36
5/15/2024	12:24:06 PM	0.9	0.000	0.18	6.53	0.11	191.37
5/15/2024	12:25:09 PM	0.9	0.000	0.21	6.07	0.08	191.37
5/15/2024	12:26:12 PM	0.9	0.000	0.25	5.65	0.15	191.38
5/15/2024	12:27:15 PM	0.9	0.000	0.32	5.55	0.15	191.36
5/15/2024	12:28:18 PM	0.9	0.000	0.35	6.81	0.22	191.38
5/15/2024	12:29:21 PM	0.9	0.000	0.69	17.33	0.38	191.28
5/15/2024	12:30:24 PM	0.9	0.000	0.24	19.08	0.27	191.31
5/15/2024	12:31:26 PM	0.9	0.000	0.58	19.01	0.12	191.30
5/15/2024	12:32:29 PM	0.9	0.000	0.35	17.48	0.22	191.29
5/15/2024	12:33:32 PM	0.9	0.000	0.44	18.94	0.16	191.33
5/15/2024	12:34:35 PM	0.9	0.000	0.45	17.74	0.30	191.35
5/15/2024	12:35:38 PM	0.9	0.000	0.42	20.13	0.38	191.29
5/15/2024	12:36:41 PM	0.9	0.000	0.05	22.22	0.00	191.30
5/15/2024	12:37:44 PM	0.9	0.000	0.32	17.16	0.25	191.29
5/15/2024	12:38:47 PM	0.9	0.000	-0.05	23.30	0.33	191.31
5/15/2024	12:39:50 PM	0.9	0.000	0.28	15.61	0.25	191.32
5/15/2024	12:40:52 PM	0.9	0.000	0.28	16.59	0.03	191.34
5/15/2024	12:41:55 PM	0.9	0.000	0.03	21.82	0.15	191.32
5/15/2024	12:42:58 PM	0.9	0.000	0.16	20.57	0.22	191.32
5/15/2024	12:44:01 PM	0.9	0.000	0.20	19.92	0.24	191.31
5/15/2024	12:45:04 PM	0.9	0.000	0.21	20.09	0.17	191.31
5/15/2024	12:46:07 PM	0.9	0.000	0.37	17.46	0.30	191.29
5/15/2024	12:47:10 PM	0.9	0.000	0.18	20.81	0.19	191.34
5/15/2024	12:48:13 PM	0.9	0.000	0.14	19.88	0.22	191.33
5/15/2024	12:49:16 PM	0.9	0.000	0.27	17.86	0.28	191.33
5/15/2024	12:50:18 PM	0.9	0.000	0.40	18.66	-0.08	191.31
5/15/2024	12:51:21 PM	0.9	0.000	0.45	18.10	0.18	191.30
5/15/2024	12:52:24 PM	0.9	0.000	0.41	17.69	0.20	191.33
5/15/2024	12:53:27 PM	0.9	0.000	-0.33	26.86	0.18	191.26
5/15/2024	12:54:30 PM	0.9	0.000	0.28	17.76	0.22	191.20
5/15/2024	12:55:33 PM	0.9	0.000	0.23	21.03	0.26	191.27
5/15/2024	12:56:36 PM	0.9	0.000	0.27	15.40	0.21	191.29
5/15/2024	12:57:39 PM	0.9	0.000	0.65	18.90	-0.12	191.28
5/15/2024	12:58:42 PM	0.9	0.000	0.54	20.13	0.02	191.24
5/15/2024	12:59:44 PM	0.9	0.000	-0.08	23.18	0.05	191.22
5/15/2024	1:00:47 PM	0.9	0.000	0.31	14.28	0.16	191.27
5/15/2024	1:01:50 PM	0.9	0.000	0.24	20.19	0.26	191.32
5/15/2024	1:02:53 PM	0.9	0.000	0.05	22.02	0.20	191.26

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	1:03:56 PM	0.9	0.000	0.24	20.02	0.21	191.24
5/15/2024	1:04:59 PM	0.9	0.000	0.04	22.94	0.28	191.25
5/15/2024	1:06:02 PM	0.9	0.000	0.34	17.17	0.17	191.20
5/15/2024	1:07:05 PM	0.9	0.000	0.24	15.03	0.13	191.31
5/15/2024	1:08:07 PM	0.9	0.000	0.24	20.20	0.35	191.31
5/15/2024	1:09:10 PM	0.9	0.000	0.16	20.83	0.22	191.32
5/15/2024	1:10:13 PM	0.9	0.000	0.14	20.39	0.37	191.25
5/15/2024	1:11:16 PM	0.9	0.000	-0.05	22.34	0.21	191.20
5/15/2024	1:12:19 PM	0.9	0.000	0.08	21.56	0.24	191.19
5/15/2024	1:13:22 PM	0.9	0.000	0.40	16.31	0.20	191.31
5/15/2024	1:14:25 PM	0.9	0.000	0.13	20.51	0.25	191.31
5/15/2024	1:15:28 PM	0.9	0.000	0.09	22.89	0.12	191.31
5/15/2024	1:16:31 PM	0.9	0.000	0.18	19.74	0.23	191.23
5/15/2024	1:17:33 PM	0.9	0.000	0.17	19.52	0.17	191.28
5/15/2024	1:18:36 PM	0.9	0.000	0.26	18.03	0.27	191.30
5/15/2024	1:19:39 PM	0.9	0.000	0.23	15.72	0.26	191.35
5/15/2024	1:20:42 PM	0.9	0.000	0.15	21.84	0.13	191.17
5/15/2024	1:21:45 PM	0.9	0.000	0.55	18.31	0.15	191.18
5/15/2024	1:22:48 PM	0.9	0.000	0.31	17.14	0.22	191.29
5/15/2024	1:23:51 PM	0.9	0.000	0.48	18.95	0.17	191.32
5/15/2024	1:24:54 PM	0.9	0.000	0.47	20.62	0.25	191.32
5/15/2024	1:25:56 PM	0.9	0.000	0.22	19.64	0.21	191.32
5/15/2024	1:26:59 PM	0.9	0.000	0.04	21.53	0.21	191.28
5/15/2024	1:28:02 PM	0.9	0.000	0.54	16.71	0.10	191.30
5/15/2024	1:29:05 PM	0.8	0.000	0.47	9.64	-0.08	191.31
5/15/2024	1:30:08 PM	0.7	0.000	-0.19	0.24	0.06	191.42
5/15/2024	1:31:11 PM	0.7	0.000	-0.10	0.16	0.03	191.47
5/15/2024	1:32:14 PM	0.8	0.000	-0.22	0.12	0.00	191.49
5/15/2024	1:34:32 PM	0.8	0.000	0.00	0.00	0.00	191.47
5/15/2024	1:35:41 PM	0.9	0.000	-0.04	-0.02	-0.04	191.49
5/15/2024	1:36:44 PM	1.0	0.000	0.04	-0.01	0.01	191.54
5/15/2024	1:39:00 PM	1.0	0.000	0.00	0.00	0.00	191.54
5/15/2024	1:40:09 PM	1.0	0.000	-0.03	0.01	31.35	191.55
5/15/2024	1:41:12 PM	1.0	0.000	0.07	0.00	99.07	191.50
5/15/2024	1:42:15 PM	1.0	0.000	0.02	-0.01	99.57	191.57
5/15/2024	1:43:18 PM	1.0	0.000	-0.04	-0.01	99.79	191.59
5/15/2024	1:44:21 PM	0.9	0.000	0.54	8.57	33.88	191.51
5/15/2024	1:45:24 PM	0.9	0.000	-0.34	24.11	-0.31	191.03
5/15/2024	1:46:27 PM	0.9	0.000	0.07	14.74	-0.11	190.88
5/15/2024	1:47:30 PM	0.9	0.000	0.18	11.77	0.11	191.16
5/15/2024	1:48:32 PM	0.9	0.000	0.30	6.81	0.11	191.33
5/15/2024	1:49:35 PM	0.9	0.000	0.37	5.71	0.00	191.35
5/15/2024	1:50:38 PM	0.9	0.000	0.16	5.50	0.08	191.35
5/15/2024	1:51:41 PM	0.9	0.000	0.20	5.44	-0.04	191.35
5/15/2024	1:52:44 PM	0.9	0.000	0.30	5.39	0.04	191.34
5/15/2024	1:53:47 PM	0.9	0.000	0.31	5.34	0.11	191.35
5/15/2024	1:54:50 PM	0.9	0.000	0.41	5.32	0.08	191.35
5/15/2024	1:55:53 PM	0.9	0.000	0.32	5.30	0.15	191.36
5/15/2024	1:56:56 PM	0.9	0.000	0.41	5.62	0.14	191.36
5/15/2024	1:57:59 PM	0.9	0.000	0.35	15.55	0.12	191.36
5/15/2024	1:59:01 PM	0.9	0.000	0.28	16.68	0.19	191.34
5/15/2024	2:00:04 PM	0.9	0.000	0.46	14.90	0.21	191.33
5/15/2024	2:01:07 PM	0.9	0.000	0.34	15.81	0.25	191.32
5/15/2024	2:02:10 PM	0.9	0.000	-0.39	26.69	0.31	191.13
5/15/2024	2:03:13 PM	0.9	0.000	0.58	18.56	0.12	191.08
5/15/2024	2:04:16 PM	0.9	0.000	0.31	13.72	0.17	191.21
5/15/2024	2:05:19 PM	0.9	0.000	0.47	16.66	0.18	191.30
5/15/2024	2:06:21 PM	0.9	0.000	0.42	18.36	0.15	191.29
5/15/2024	2:07:24 PM	0.9	0.000	0.66	19.65	0.23	191.29
5/15/2024	2:08:27 PM	0.9	0.000	0.32	20.30	0.14	191.29
5/15/2024	2:09:30 PM	0.9	0.000	0.41	15.44	0.14	191.28
5/15/2024	2:10:33 PM	0.9	0.000	-0.03	24.24	0.14	191.11
5/15/2024	2:11:36 PM	0.9	0.000	0.43	15.32	0.11	191.18
5/15/2024	2:12:39 PM	0.9	0.000	0.42	20.07	0.23	191.31

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	2:13:42 PM	0.9	0.000	0.49	18.09	0.12	191.33
5/15/2024	2:14:45 PM	0.9	0.000	0.71	20.05	0.34	191.34
5/15/2024	2:15:47 PM	0.9	0.000	0.22	20.25	0.17	191.31
5/15/2024	2:16:50 PM	0.9	0.000	0.35	15.52	0.13	191.33
5/15/2024	2:17:53 PM	0.9	0.000	0.67	18.59	0.13	191.35
5/15/2024	2:18:56 PM	0.9	0.000	0.54	19.90	0.13	191.31
5/15/2024	2:19:59 PM	0.9	0.000	0.24	20.79	0.22	191.32
5/15/2024	2:21:02 PM	0.9	0.000	0.52	18.93	0.33	191.33
5/15/2024	2:22:05 PM	0.9	0.000	0.42	15.88	0.12	191.35
5/15/2024	2:23:08 PM	0.9	0.000	0.24	21.42	0.14	191.30
5/15/2024	2:24:10 PM	0.9	0.000	0.49	19.01	0.22	191.32
5/15/2024	2:25:13 PM	0.9	0.000	0.73	19.18	0.17	191.32
5/15/2024	2:26:16 PM	0.9	0.000	0.13	21.88	0.27	191.21
5/15/2024	2:27:19 PM	0.9	0.000	0.25	20.29	0.17	191.28
5/15/2024	2:28:22 PM	0.9	0.000	0.35	19.64	0.45	191.27
5/15/2024	2:29:25 PM	0.9	0.000	0.35	19.05	0.10	191.31
5/15/2024	2:30:28 PM	0.9	0.000	0.59	19.91	0.19	191.33
5/15/2024	2:31:31 PM	0.9	0.000	0.26	20.75	0.24	191.31
5/15/2024	2:32:33 PM	0.9	0.000	0.50	17.21	0.18	191.29
5/15/2024	2:33:36 PM	0.9	0.000	0.29	20.57	0.11	191.28
5/15/2024	2:34:39 PM	0.9	0.000	0.35	19.20	0.32	191.32
5/15/2024	2:35:42 PM	0.9	0.000	0.40	20.72	0.02	191.31
5/15/2024	2:36:45 PM	0.9	0.000	0.35	13.72	0.00	191.11
5/15/2024	2:37:48 PM	0.9	0.000	0.07	23.61	0.27	191.19
5/15/2024	2:38:51 PM	0.9	0.000	0.37	15.92	0.27	191.20
5/15/2024	2:39:54 PM	0.9	0.000	0.32	21.23	0.20	191.26
5/15/2024	2:40:57 PM	0.9	0.000	0.12	24.00	0.34	191.23
5/15/2024	2:41:59 PM	0.9	0.000	0.26	20.68	-0.03	191.27
5/15/2024	2:43:02 PM	0.9	0.000	0.46	15.96	0.09	191.35
5/15/2024	2:44:05 PM	0.9	0.000	0.36	16.20	0.11	191.34
5/15/2024	2:45:08 PM	0.9	0.000	0.41	16.02	0.16	191.34
5/15/2024	2:46:11 PM	0.9	0.000	0.10	23.50	0.19	191.28
5/15/2024	2:47:14 PM	0.9	0.000	0.12	22.19	0.21	191.23
5/15/2024	2:48:17 PM	0.9	0.000	0.15	21.00	0.19	191.27
5/15/2024	2:49:20 PM	0.9	0.000	0.62	18.09	0.17	191.31
5/15/2024	2:50:23 PM	0.9	0.000	0.23	20.80	0.23	191.31
5/15/2024	2:51:25 PM	0.9	0.000	0.24	21.16	0.26	191.30
5/15/2024	2:52:28 PM	0.9	0.000	0.49	18.63	0.15	191.32
5/15/2024	2:53:31 PM	0.9	0.000	0.48	16.47	0.18	191.33
5/15/2024	2:54:34 PM	0.9	0.000	-0.67	30.68	0.10	191.08
5/15/2024	2:55:37 PM	0.9	0.000	0.45	16.38	0.19	191.07
5/15/2024	2:56:40 PM	0.9	0.000	0.54	16.01	0.10	191.27
5/15/2024	2:57:43 PM	0.9	0.000	0.34	19.10	0.21	191.30
5/15/2024	2:58:46 PM	0.9	0.000	0.47	16.46	0.15	191.34
5/15/2024	2:59:48 PM	0.9	0.000	-0.02	22.89	-0.06	191.33
5/15/2024	3:00:51 PM	0.9	0.000	0.21	12.06	0.05	191.34
5/15/2024	3:01:54 PM	0.9	0.000	0.34	7.54	0.03	191.36
5/15/2024	3:02:57 PM	0.9	0.000	0.38	6.35	0.04	191.38
5/15/2024	3:04:00 PM	0.9	0.000	0.24	5.64	-0.03	191.38
5/15/2024	3:05:03 PM	0.9	0.000	0.26	5.38	0.04	191.38
5/15/2024	3:06:06 PM	0.9	0.000	0.28	5.38	0.02	191.39
5/15/2024	3:07:09 PM	0.9	0.000	0.36	5.40	0.19	191.40
5/15/2024	3:08:11 PM	0.9	0.000	0.38	5.47	0.00	191.39
5/15/2024	3:09:14 PM	0.9	0.000	0.37	5.45	0.09	191.36
5/15/2024	3:10:17 PM	0.9	0.000	0.21	11.92	0.08	191.35
5/15/2024	3:11:20 PM	0.9	0.000	0.00	24.16	0.52	191.27
5/15/2024	3:12:23 PM	0.9	0.000	0.32	16.16	0.11	191.14
5/15/2024	3:13:26 PM	0.9	0.000	0.57	16.40	0.19	191.23
5/15/2024	3:14:29 PM	0.9	0.000	0.46	15.90	0.11	191.30
5/15/2024	3:15:32 PM	0.9	0.000	0.39	15.78	0.19	191.34
5/15/2024	3:16:34 PM	0.9	0.000	0.41	19.84	0.17	191.29
5/15/2024	3:17:37 PM	0.9	0.000	0.34	20.39	0.01	191.23
5/15/2024	3:18:40 PM	0.9	0.000	0.49	17.96	0.32	191.30
5/15/2024	3:19:43 PM	0.9	0.000	0.45	18.48	0.19	191.32

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	3:20:46 PM	0.9	0.000	0.53	17.11	0.14	191.35
5/15/2024	3:21:49 PM	0.9	0.000	0.45	18.09	0.18	191.35
5/15/2024	3:22:52 PM	0.9	0.000	0.79	19.86	0.08	191.34
5/15/2024	3:23:55 PM	0.9	0.000	0.35	12.97	0.24	191.30
5/15/2024	3:24:58 PM	0.9	0.000	0.65	18.60	-0.02	191.28
5/15/2024	3:26:00 PM	0.9	0.000	0.70	18.61	0.21	191.27
5/15/2024	3:27:03 PM	0.9	0.000	0.29	21.57	0.21	191.27
5/15/2024	3:28:06 PM	0.9	0.000	0.24	20.28	0.19	191.25
5/15/2024	3:29:09 PM	0.9	0.000	0.28	19.01	0.17	191.32
5/15/2024	3:30:12 PM	0.9	0.000	0.51	18.47	0.16	191.33
5/15/2024	3:31:15 PM	0.9	0.000	0.43	16.97	0.09	191.34
5/15/2024	3:32:18 PM	0.9	0.000	0.33	20.75	0.29	191.31
5/15/2024	3:33:21 PM	0.9	0.000	0.56	18.22	0.03	191.28
5/15/2024	3:34:23 PM	0.9	0.000	0.53	20.25	0.23	191.29
5/15/2024	3:35:26 PM	0.9	0.000	0.10	22.24	0.17	191.31
5/15/2024	3:36:29 PM	0.9	0.000	0.36	16.28	0.17	191.31
5/15/2024	3:37:32 PM	0.9	0.000	0.56	18.91	0.05	191.32
5/15/2024	3:38:35 PM	0.9	0.000	0.45	19.00	0.26	191.32
5/15/2024	3:39:38 PM	0.9	0.000	0.04	23.53	0.09	191.29
5/15/2024	3:40:41 PM	0.9	0.000	0.56	19.03	0.19	191.32
5/15/2024	3:41:44 PM	0.9	0.000	0.23	21.60	0.24	191.33
5/15/2024	3:42:47 PM	0.9	0.000	0.16	22.17	0.24	191.23
5/15/2024	3:43:49 PM	0.9	0.000	0.45	19.03	0.18	191.29
5/15/2024	3:44:52 PM	0.9	0.000	-0.07	26.13	0.36	191.27
5/15/2024	3:45:55 PM	0.9	0.000	0.21	19.60	0.20	191.23
5/15/2024	3:46:58 PM	0.9	0.000	0.36	18.89	0.22	191.26
5/15/2024	3:48:01 PM	0.9	0.000	0.58	17.19	0.20	191.32
5/15/2024	3:49:04 PM	0.9	0.000	0.39	16.33	0.14	191.32
5/15/2024	3:50:07 PM	0.9	0.000	0.26	19.34	0.17	191.34
5/15/2024	3:51:10 PM	0.9	0.000	-0.10	25.52	0.21	191.24
5/15/2024	3:52:12 PM	0.9	0.000	0.15	22.44	0.17	191.19
5/15/2024	3:53:15 PM	0.9	0.000	0.46	15.39	0.09	191.23
5/15/2024	3:54:18 PM	0.9	0.000	0.37	16.06	0.17	191.34
5/15/2024	3:55:21 PM	0.9	0.000	0.38	19.40	-0.09	191.28
5/15/2024	3:56:24 PM	0.9	0.000	0.36	19.50	0.13	191.20
5/15/2024	3:57:27 PM	0.9	0.000	0.41	15.75	0.12	191.29
5/15/2024	3:58:30 PM	0.9	0.000	0.18	21.52	0.29	191.29
5/15/2024	3:59:33 PM	0.9	0.000	0.00	24.02	0.13	191.22
5/15/2024	4:00:36 PM	0.9	0.000	0.59	17.55	0.08	191.23
5/15/2024	4:01:38 PM	0.9	0.000	0.28	21.17	0.12	191.25
5/15/2024	4:02:41 PM	0.9	0.000	0.34	15.17	0.09	191.33
5/15/2024	4:03:44 PM	0.9	0.000	0.24	18.70	0.05	191.35
5/15/2024	4:04:47 PM	0.9	0.000	0.23	17.06	-0.06	191.36
5/15/2024	4:05:50 PM	0.9	0.000	0.40	8.20	0.10	191.36
5/15/2024	4:06:53 PM	0.9	0.000	0.29	5.86	0.15	191.38
5/15/2024	4:07:56 PM	0.9	0.000	0.23	5.47	-0.03	191.36
5/15/2024	4:08:59 PM	0.9	0.000	0.25	5.53	0.02	191.37
5/15/2024	4:10:02 PM	0.9	0.000	0.24	5.46	0.00	191.38
5/15/2024	4:11:04 PM	0.9	0.000	0.36	5.35	0.08	191.39
5/15/2024	4:12:07 PM	0.9	0.000	0.46	5.30	0.08	191.37
5/15/2024	4:13:10 PM	0.9	0.000	0.44	5.63	0.15	191.36
5/15/2024	4:14:13 PM	0.9	0.000	0.46	5.41	0.11	191.36
5/15/2024	4:15:16 PM	0.9	0.000	0.51	18.49	0.23	191.36
5/15/2024	4:16:19 PM	0.9	0.000	0.40	17.48	0.20	191.36
5/15/2024	4:17:22 PM	0.9	0.000	0.37	13.60	0.17	191.35
5/15/2024	4:18:25 PM	0.9	0.000	0.60	18.84	0.32	191.32
5/15/2024	4:19:27 PM	0.9	0.000	0.39	15.99	0.16	191.33
5/15/2024	4:20:30 PM	0.9	0.000	0.23	20.45	0.37	191.35
5/15/2024	4:21:33 PM	0.9	0.000	0.36	18.82	0.26	191.32
5/15/2024	4:22:36 PM	0.9	0.000	0.39	17.55	0.18	191.33
5/15/2024	4:23:39 PM	0.9	0.000	0.44	17.61	0.09	191.36
5/15/2024	4:24:42 PM	0.9	0.000	0.60	20.21	0.19	191.37
5/15/2024	4:25:45 PM	0.9	0.000	0.34	18.36	0.22	191.37
5/15/2024	4:26:48 PM	0.9	0.000	0.54	20.28	0.18	191.34

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	4:27:50 PM	0.9	0.000	0.43	16.67	0.27	191.35
5/15/2024	4:28:53 PM	0.9	0.000	0.22	21.47	0.20	191.34
5/15/2024	4:29:56 PM	0.9	0.000	0.34	15.96	0.20	191.33
5/15/2024	4:30:59 PM	0.9	0.000	0.29	20.45	0.23	191.33
5/15/2024	4:32:02 PM	0.9	0.000	0.53	17.43	0.22	191.33
5/15/2024	4:33:05 PM	0.9	0.000	0.04	23.34	0.01	191.25
5/15/2024	4:34:08 PM	0.9	0.000	0.09	21.76	0.25	191.15
5/15/2024	4:35:11 PM	0.9	0.000	0.09	24.28	0.30	191.20
5/15/2024	4:36:14 PM	0.9	0.000	0.34	15.06	0.20	191.30
5/15/2024	4:37:16 PM	0.9	0.000	0.48	18.80	0.10	191.33
5/15/2024	4:38:19 PM	0.9	0.000	0.19	21.88	0.31	191.34
5/15/2024	4:39:22 PM	0.9	0.000	0.38	16.95	0.16	191.33
5/15/2024	4:40:25 PM	0.9	0.000	0.38	19.52	0.11	191.34
5/15/2024	4:41:28 PM	0.9	0.000	0.12	22.25	0.27	191.30
5/15/2024	4:42:31 PM	0.9	0.000	0.13	21.99	0.33	191.20
5/15/2024	4:43:34 PM	0.9	0.000	0.27	20.64	0.20	191.25
5/15/2024	4:44:37 PM	0.9	0.000	0.38	18.57	0.22	191.29
5/15/2024	4:45:39 PM	0.9	0.000	0.61	19.58	0.28	191.30
5/15/2024	4:46:42 PM	0.9	0.000	0.33	19.73	0.23	191.33
5/15/2024	4:47:45 PM	0.9	0.000	0.39	18.33	0.28	191.34
5/15/2024	4:48:48 PM	0.9	0.000	0.49	19.74	0.26	191.32
5/15/2024	4:49:51 PM	0.9	0.000	0.30	15.50	0.26	191.34
5/15/2024	4:50:54 PM	0.9	0.000	0.15	20.88	0.29	191.25
5/15/2024	4:51:57 PM	0.9	0.000	0.31	19.85	0.06	191.24
5/15/2024	4:53:00 PM	0.9	0.000	0.45	17.69	0.15	191.29
5/15/2024	4:54:02 PM	0.9	0.000	0.18	21.04	0.22	191.25
5/15/2024	4:55:05 PM	0.9	0.000	0.51	17.50	0.18	191.31
5/15/2024	4:56:08 PM	0.9	0.000	0.12	23.29	0.20	191.28
5/15/2024	4:57:11 PM	0.9	0.000	0.32	15.29	0.25	191.28
5/15/2024	4:58:14 PM	0.9	0.000	0.30	20.34	0.19	191.32
5/15/2024	4:59:17 PM	0.9	0.000	0.33	19.38	0.15	191.32
5/15/2024	5:00:20 PM	0.9	0.000	0.23	20.57	0.21	191.28
5/15/2024	5:01:23 PM	0.9	0.000	0.50	17.48	0.18	191.21
5/15/2024	5:02:25 PM	0.9	0.000	0.27	20.37	0.14	191.24
5/15/2024	5:03:28 PM	0.9	0.000	0.57	17.24	0.18	191.28
5/15/2024	5:04:31 PM	0.9	0.000	0.23	21.01	0.18	191.28
5/15/2024	5:05:34 PM	0.9	0.000	0.47	18.76	0.06	191.25
5/15/2024	5:06:37 PM	0.9	0.000	-0.27	25.90	0.21	191.13
5/15/2024	5:07:40 PM	0.9	0.000	0.25	21.20	0.15	191.17
5/15/2024	5:08:43 PM	0.9	0.000	0.44	14.16	0.18	191.19
5/15/2024	5:09:46 PM	0.9	0.000	0.72	17.79	0.20	191.12
5/15/2024	5:10:49 PM	0.9	0.000	0.52	19.72	0.20	191.21
5/15/2024	5:11:51 PM	0.9	0.000	0.38	18.42	0.28	191.25
5/15/2024	5:12:54 PM	0.9	0.000	0.46	17.76	0.22	191.27
5/15/2024	5:13:57 PM	0.9	0.000	0.08	22.96	0.12	191.24
5/15/2024	5:15:00 PM	0.9	0.000	0.35	19.80	-0.11	191.23
5/15/2024	5:16:03 PM	0.9	0.000	0.37	18.83	0.20	191.25
5/15/2024	5:17:06 PM	0.9	0.000	0.20	21.73	0.28	191.21
5/15/2024	5:18:09 PM	0.9	0.000	0.33	17.38	0.12	191.18
5/15/2024	5:19:12 PM	0.9	0.000	0.07	15.87	-0.08	191.24
5/15/2024	5:20:14 PM	0.9	0.000	0.13	14.98	0.06	191.27
5/15/2024	5:21:17 PM	0.9	0.000	0.22	7.04	0.06	191.33
5/15/2024	5:22:20 PM	0.9	0.000	0.30	5.36	0.01	191.35
5/15/2024	5:23:23 PM	0.9	0.000	0.23	5.05	0.05	191.35
5/15/2024	5:24:26 PM	0.9	0.000	0.29	5.50	0.04	191.36
5/15/2024	5:25:29 PM	0.9	0.000	0.24	5.12	0.04	191.36
5/15/2024	5:26:32 PM	0.9	0.000	0.19	4.83	0.10	191.35
5/15/2024	5:27:35 PM	0.9	0.000	0.25	4.92	0.04	191.36
5/15/2024	5:28:37 PM	0.9	0.000	0.24	4.91	0.11	191.37
5/15/2024	5:29:40 PM	0.9	0.000	0.40	5.26	0.07	191.36
5/15/2024	5:30:43 PM	0.9	0.000	0.36	14.40	0.15	191.34
5/15/2024	5:31:46 PM	0.9	0.000	0.26	15.18	0.06	191.33
5/15/2024	5:32:49 PM	0.9	0.000	0.26	17.27	0.19	191.27
5/15/2024	5:33:52 PM	0.9	0.000	0.36	16.29	0.14	191.27



BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/15/2024	5:34:55 PM	0.9	0.000	0.34	15.12	0.13	191.31
5/15/2024	5:35:58 PM	0.9	0.000	0.20	20.68	0.19	191.21
5/15/2024	5:37:01 PM	0.9	0.000	0.22	15.29	0.16	191.25
5/15/2024	5:38:03 PM	0.9	0.000	0.26	20.05	0.15	191.27
5/15/2024	5:39:06 PM	0.9	0.000	0.25	18.62	0.14	191.21
5/15/2024	5:40:09 PM	0.9	0.000	0.49	18.05	0.21	191.19
5/15/2024	5:41:12 PM	0.9	0.000	0.42	19.60	0.24	191.27
5/15/2024	5:42:15 PM	0.9	0.000	0.27	19.77	0.41	191.26
5/15/2024	5:43:18 PM	0.9	0.000	0.34	16.86	0.17	191.26
5/15/2024	5:44:21 PM	0.9	0.000	0.09	23.02	0.21	191.27
5/15/2024	5:45:24 PM	0.9	0.000	0.37	18.09	0.22	191.32
5/15/2024	5:46:26 PM	0.9	0.000	0.39	19.33	0.14	191.34
5/15/2024	5:47:29 PM	0.9	0.000	0.02	22.74	0.28	191.30
5/15/2024	5:48:32 PM	0.9	0.000	0.28	15.73	0.05	191.18
5/15/2024	5:49:35 PM	0.9	0.000	-0.08	24.37	0.42	191.16
5/15/2024	5:50:38 PM	0.9	0.000	0.43	19.16	0.15	191.23
5/15/2024	5:51:41 PM	0.9	0.000	0.24	20.91	0.33	191.22
5/15/2024	5:52:44 PM	0.9	0.000	0.36	14.85	0.13	191.30
5/15/2024	5:53:47 PM	0.9	0.000	0.35	20.15	0.15	191.29
5/15/2024	5:54:49 PM	0.9	0.000	0.34	14.77	0.29	191.14
5/15/2024	5:55:52 PM	0.9	0.000	0.05	23.46	0.09	191.18
5/15/2024	5:56:55 PM	0.9	0.000	0.07	22.54	0.16	191.24
5/15/2024	5:57:58 PM	0.9	0.000	0.50	18.10	0.17	191.29
5/15/2024	5:59:01 PM	0.9	0.000	0.51	19.56	0.19	191.33
5/15/2024	6:00:04 PM	0.9	0.000	0.34	15.21	0.14	191.33
5/15/2024	6:01:07 PM	0.9	0.000	-0.20	26.10	0.25	191.31
5/15/2024	6:02:10 PM	0.9	0.000	0.33	16.65	0.19	191.33
5/15/2024	6:03:12 PM	0.9	0.000	0.09	23.29	0.33	191.32
5/15/2024	6:04:15 PM	0.9	0.000	0.40	16.14	0.12	191.34
5/15/2024	6:05:18 PM	0.9	0.000	0.39	17.57	0.19	191.35
5/15/2024	6:06:21 PM	0.9	0.000	0.57	15.97	0.00	191.33
5/15/2024	6:07:24 PM	0.9	0.000	-0.15	25.13	0.25	191.32
5/15/2024	6:08:27 PM	0.9	0.000	0.48	19.27	0.18	191.31
5/15/2024	6:09:30 PM	0.9	0.000	0.41	17.56	0.29	191.34
5/15/2024	6:10:33 PM	0.9	0.000	0.22	21.58	0.18	191.33
5/15/2024	6:11:35 PM	0.9	0.000	0.13	21.70	0.16	191.29
5/15/2024	6:12:38 PM	0.9	0.000	0.39	16.15	0.15	191.34
5/15/2024	6:13:41 PM	0.9	0.000	0.25	19.70	0.11	191.34
5/15/2024	6:14:44 PM	0.9	0.000	0.36	18.89	0.03	191.33
5/15/2024	6:15:47 PM	0.9	0.000	0.19	14.25	0.17	191.26
5/15/2024	6:16:50 PM	0.9	0.000	0.27	5.96	0.11	191.34
5/15/2024	6:17:53 PM	0.9	0.000	0.19	5.01	-0.02	191.35
5/15/2024	6:18:56 PM	0.9	0.000	0.27	4.89	0.05	191.36
5/15/2024	6:19:58 PM	0.9	0.000	0.18	4.64	0.05	191.35
5/15/2024	6:21:01 PM	0.9	0.000	0.11	4.82	0.01	191.38
5/15/2024	6:22:04 PM	0.9	0.000	0.27	4.61	0.11	191.37
5/15/2024	6:23:07 PM	1.0	0.000	0.32	3.65	0.17	191.56
5/15/2024	6:24:10 PM	1.0	0.000	0.40	3.61	3.93	191.69
5/15/2024	6:25:13 PM	1.0	0.000	-0.09	0.42	98.85	191.67
5/15/2024	6:26:16 PM	1.0	0.000	0.01	0.07	99.64	191.60
5/15/2024	6:27:19 PM	1.0	0.000	0.10	0.00	99.89	191.57
5/15/2024	6:28:21 PM	1.0	0.000	0.17	0.01	53.68	191.60
5/15/2024	6:29:24 PM	1.0	0.000	0.05	0.01	0.06	191.65
5/15/2024	6:30:27 PM	1.0	0.000	0.19	0.00	0.01	191.66
5/15/2024	6:31:30 PM	1.0	0.000	0.11	0.00	-0.06	191.65
5/15/2024	6:34:47 PM	1.0	0.000	0.00	0.00	0.00	191.70
5/15/2024	6:35:56 PM	1.0	0.000	0.09	0.00	-0.15	191.66
5/16/2024	6:29:33 AM	1.0	0.000	-0.03	0.02	-0.10	191.66
5/16/2024	6:30:35 AM	1.0	0.000	0.02	0.01	-0.06	191.60
5/16/2024	6:32:55 AM	1.0	0.000	0.00	0.00	0.00	191.55
5/16/2024	6:34:04 AM	1.0	0.000	-0.06	0.00	0.09	191.53
5/16/2024	6:35:07 AM	1.0	0.000	-0.02	0.00	37.65	191.57
5/16/2024	6:36:10 AM	1.0	0.000	0.01	-0.02	99.11	191.60

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/16/2024	6:37:13 AM	1.0	0.000	-0.06	-0.01	99.20	191.62
5/16/2024	6:38:16 AM	1.0	0.000	0.02	-0.01	98.91	191.59
5/16/2024	6:39:19 AM	1.0	0.000	0.01	1.21	47.48	191.56
5/16/2024	6:40:22 AM	0.9	0.000	0.20	3.60	0.16	191.40
5/16/2024	6:41:24 AM	0.9	0.000	0.07	5.52	0.14	191.35
5/16/2024	6:42:27 AM	0.9	0.000	-0.14	12.30	0.07	191.28
5/16/2024	6:43:30 AM	0.9	0.000	0.14	9.99	0.08	191.14
5/16/2024	6:44:33 AM	0.9	0.000	0.15	7.05	0.10	191.18
5/16/2024	6:45:36 AM	0.9	0.000	0.13	5.44	0.12	191.29
5/16/2024	6:46:39 AM	0.9	0.000	0.08	4.59	0.11	191.32
5/16/2024	6:47:42 AM	0.9	0.000	0.19	8.11	0.14	191.33
5/16/2024	6:48:44 AM	0.9	0.000	0.03	5.03	0.05	191.34
5/16/2024	6:49:47 AM	0.9	0.000	0.08	4.16	0.06	191.36
5/16/2024	6:50:50 AM	0.9	0.000	0.11	3.92	0.02	191.37
5/16/2024	6:51:53 AM	0.9	0.000	0.08	3.76	0.02	191.38
5/16/2024	6:52:56 AM	0.9	0.000	0.05	3.50	0.04	191.38
5/16/2024	6:53:59 AM	0.9	0.000	0.11	3.48	0.06	191.36
5/16/2024	6:55:02 AM	0.9	0.000	0.05	3.45	0.06	191.36
5/16/2024	6:56:05 AM	0.9	0.000	0.03	3.39	0.13	191.37
5/16/2024	6:57:07 AM	0.9	0.000	0.01	3.15	0.09	191.39
5/16/2024	6:58:10 AM	0.9	0.000	-0.04	2.65	-0.05	191.38
5/16/2024	6:59:13 AM	0.9	0.000	0.22	2.78	0.15	191.37
5/16/2024	7:00:16 AM	0.9	0.000	0.14	3.03	0.15	191.37
5/16/2024	7:01:19 AM	0.9	0.000	0.16	3.24	0.16	191.33
5/16/2024	7:02:22 AM	0.9	0.000	0.24	8.80	0.22	191.31
5/16/2024	7:03:25 AM	0.9	0.000	0.15	11.36	0.30	191.34
5/16/2024	7:04:27 AM	1.0	0.000	0.60	14.66	0.24	191.46
5/16/2024	7:05:30 AM	0.9	0.000	0.37	15.08	0.12	191.49
5/16/2024	7:06:33 AM	0.9	0.000	0.22	12.99	0.21	191.33
5/16/2024	7:07:36 AM	0.9	0.000	0.08	19.66	0.30	191.24
5/16/2024	7:08:39 AM	0.9	0.000	0.08	19.88	0.24	191.21
5/16/2024	7:09:42 AM	0.9	0.000	0.23	18.09	0.30	191.23
5/16/2024	7:10:45 AM	0.9	0.000	0.35	18.70	0.30	191.26
5/16/2024	7:11:48 AM	0.9	0.000	0.34	18.27	0.31	191.23
5/16/2024	7:12:51 AM	0.9	0.000	0.34	18.28	0.30	191.30
5/16/2024	7:13:53 AM	0.9	0.000	0.25	16.08	0.26	191.32
5/16/2024	7:14:56 AM	0.9	0.000	0.29	16.98	0.23	191.34
5/16/2024	7:15:59 AM	0.9	0.000	0.31	18.99	0.43	191.31
5/16/2024	7:17:02 AM	0.9	0.000	0.38	19.02	0.26	191.29
5/16/2024	7:18:05 AM	0.9	0.000	0.34	20.53	0.21	191.29
5/16/2024	7:19:08 AM	0.9	0.000	0.20	18.10	0.26	191.29
5/16/2024	7:20:11 AM	0.9	0.000	0.01	21.37	0.30	191.34
5/16/2024	7:21:13 AM	0.9	0.000	-0.13	22.77	0.36	191.30
5/16/2024	7:22:16 AM	0.9	0.000	0.20	15.99	0.32	191.34
5/16/2024	7:23:19 AM	0.9	0.000	0.29	18.89	0.31	191.34
5/16/2024	7:24:22 AM	0.9	0.000	0.11	20.86	0.30	191.33
5/16/2024	7:25:25 AM	0.9	0.000	0.03	20.62	0.37	191.32
5/16/2024	7:26:28 AM	0.9	0.000	0.07	21.27	0.30	191.34
5/16/2024	7:27:31 AM	0.9	0.000	0.38	18.84	0.35	191.33
5/16/2024	7:28:34 AM	0.9	0.000	-0.08	23.41	0.47	191.32
5/16/2024	7:29:36 AM	0.9	0.000	0.14	19.87	0.15	191.31
5/16/2024	7:30:40 AM	0.9	0.000	0.11	20.48	0.27	191.33
5/16/2024	7:31:42 AM	0.9	0.000	0.13	18.79	0.22	191.35
5/16/2024	7:32:45 AM	0.9	0.000	-0.09	22.85	0.40	191.34
5/16/2024	7:33:48 AM	0.9	0.000	0.10	19.65	0.29	191.34
5/16/2024	7:34:51 AM	0.9	0.000	0.25	17.71	0.27	191.35
5/16/2024	7:35:54 AM	0.9	0.000	0.06	21.33	0.35	191.34
5/16/2024	7:36:57 AM	0.9	0.000	0.32	18.08	0.30	191.34
5/16/2024	7:37:59 AM	0.9	0.000	0.07	21.68	0.28	191.35
5/16/2024	7:39:02 AM	0.9	0.000	0.05	20.87	0.26	191.34
5/16/2024	7:40:06 AM	0.9	0.000	0.15	19.47	0.26	191.35
5/16/2024	7:41:08 AM	0.9	0.000	0.15	15.60	0.31	191.36
5/16/2024	7:42:11 AM	0.9	0.000	0.01	22.76	0.32	191.36
5/16/2024	7:43:14 AM	0.9	0.000	0.14	21.78	0.26	191.35

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/16/2024	7:44:17 AM	0.9	0.000	0.03	20.58	0.34	191.36
5/16/2024	7:45:20 AM	0.9	0.000	0.18	19.31	0.55	191.36
5/16/2024	7:46:23 AM	0.9	0.000	0.14	19.48	0.16	191.36
5/16/2024	7:47:25 AM	0.9	0.000	0.22	18.31	0.27	191.37
5/16/2024	7:48:28 AM	0.9	0.000	0.32	17.20	0.28	191.35
5/16/2024	7:49:31 AM	0.9	0.000	0.10	20.89	0.26	191.34
5/16/2024	7:50:34 AM	0.9	0.000	-0.05	22.62	0.31	191.34
5/16/2024	7:51:37 AM	0.9	0.000	-0.02	22.29	0.32	191.31
5/16/2024	7:52:40 AM	0.9	0.000	0.35	17.60	0.22	191.33
5/16/2024	7:53:43 AM	0.9	0.000	0.19	19.62	0.22	191.34
5/16/2024	7:54:46 AM	0.9	0.000	0.18	18.96	0.27	191.35
5/16/2024	7:55:48 AM	0.9	0.000	0.65	18.50	0.11	191.34
5/16/2024	7:56:51 AM	0.9	0.000	0.46	20.24	0.22	191.32
5/16/2024	7:57:54 AM	0.9	0.000	0.17	16.48	0.33	191.34
5/16/2024	7:58:57 AM	0.9	0.000	0.37	18.61	0.21	191.38
5/16/2024	8:00:00 AM	0.9	0.000	0.06	21.41	0.25	191.36
5/16/2024	8:01:03 AM	0.9	0.000	0.12	19.87	0.12	191.37
5/16/2024	8:02:06 AM	0.9	0.000	-0.16	21.55	0.12	191.38
5/16/2024	8:03:09 AM	0.9	0.000	0.01	11.71	0.16	191.37
5/16/2024	8:04:11 AM	0.9	0.000	0.13	7.30	0.15	191.40
5/16/2024	8:05:14 AM	0.9	0.000	0.06	4.95	0.11	191.43
5/16/2024	8:06:17 AM	0.9	0.000	0.08	4.22	0.15	191.42
5/16/2024	8:07:20 AM	0.9	0.000	0.12	3.84	0.11	191.44
5/16/2024	8:08:23 AM	0.9	0.000	0.34	5.17	0.06	191.43
5/16/2024	8:09:26 AM	0.9	0.000	0.19	19.71	0.19	191.38
5/16/2024	8:10:29 AM	0.9	0.000	0.23	18.10	0.26	191.37
5/16/2024	8:11:32 AM	0.9	0.000	0.25	13.76	0.23	191.35
5/16/2024	8:12:35 AM	0.9	0.000	0.20	14.96	0.22	191.36
5/16/2024	8:13:37 AM	0.9	0.000	-0.65	29.48	0.17	191.30
5/16/2024	8:14:40 AM	0.9	0.000	0.15	19.85	0.20	191.23
5/16/2024	8:15:43 AM	0.9	0.000	0.15	19.26	0.17	191.30
5/16/2024	8:16:46 AM	0.9	0.000	0.34	18.51	0.22	191.32
5/16/2024	8:17:49 AM	0.9	0.000	0.35	17.59	0.25	191.36
5/16/2024	8:18:52 AM	0.9	0.000	0.02	21.57	0.24	191.36
5/16/2024	8:19:55 AM	0.9	0.000	0.30	17.17	0.18	191.37
5/16/2024	8:20:58 AM	0.9	0.000	0.15	20.91	0.26	191.37
5/16/2024	8:22:00 AM	0.9	0.000	0.01	19.78	0.18	191.35
5/16/2024	8:23:04 AM	0.9	0.000	0.40	17.66	0.16	191.36
5/16/2024	8:24:06 AM	0.9	0.000	0.18	19.61	0.31	191.36
5/16/2024	8:25:09 AM	0.9	0.000	0.19	18.80	0.30	191.35
5/16/2024	8:26:12 AM	0.9	0.000	0.42	20.10	0.27	191.36
5/16/2024	8:27:15 AM	0.9	0.000	0.04	12.71	0.00	191.35
5/16/2024	8:28:18 AM	0.9	0.000	-0.12	25.14	0.19	191.11
5/16/2024	8:29:21 AM	0.9	0.000	0.52	19.17	0.23	191.25
5/16/2024	8:30:23 AM	0.9	0.000	0.31	17.61	0.10	191.31
5/16/2024	8:31:26 AM	0.9	0.000	0.41	13.97	0.10	191.35
5/16/2024	8:32:29 AM	0.9	0.000	0.48	17.72	0.14	191.35
5/16/2024	8:33:32 AM	0.9	0.000	0.22	16.02	0.24	191.35
5/16/2024	8:34:35 AM	0.9	0.000	0.04	22.61	0.30	191.35
5/16/2024	8:35:38 AM	0.9	0.000	0.20	19.70	0.27	191.36
5/16/2024	8:36:41 AM	0.9	0.000	0.10	22.51	0.29	191.36
5/16/2024	8:37:44 AM	0.9	0.000	-0.01	22.62	0.41	191.38
5/16/2024	8:38:47 AM	0.9	0.000	0.34	17.53	0.16	191.38
5/16/2024	8:39:49 AM	0.9	0.000	0.01	20.93	0.00	191.36
5/16/2024	8:40:52 AM	0.9	0.000	-0.08	23.01	0.37	191.35
5/16/2024	8:41:55 AM	0.9	0.000	0.18	15.04	0.29	191.36
5/16/2024	8:42:58 AM	0.9	0.000	0.04	21.85	0.28	191.36
5/16/2024	8:44:01 AM	0.9	0.000	0.11	20.95	0.37	191.36
5/16/2024	8:45:04 AM	0.9	0.000	0.13	19.61	0.26	191.34
5/16/2024	8:46:07 AM	0.9	0.000	0.33	17.68	0.19	191.35
5/16/2024	8:47:10 AM	0.9	0.000	0.09	20.93	0.31	191.35
5/16/2024	8:48:12 AM	0.9	0.000	0.40	19.14	0.22	191.34
5/16/2024	8:49:15 AM	0.9	0.000	0.42	19.87	0.27	191.34
5/16/2024	8:50:18 AM	0.9	0.000	0.17	20.31	0.29	191.35

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/16/2024	8:51:21 AM	0.9	0.000	0.14	20.68	0.21	191.36
5/16/2024	8:52:24 AM	0.9	0.000	0.23	18.16	0.33	191.37
5/16/2024	8:53:27 AM	0.9	0.000	0.44	19.46	0.20	191.35
5/16/2024	8:54:30 AM	0.9	0.000	-0.05	23.68	0.32	191.34
5/16/2024	8:55:33 AM	0.9	0.000	0.42	18.36	0.10	191.33
5/16/2024	8:56:35 AM	0.9	0.000	0.36	19.75	0.35	191.32
5/16/2024	8:57:39 AM	0.9	0.000	0.33	17.76	0.20	191.32
5/16/2024	8:58:41 AM	0.9	0.000	0.06	20.99	0.21	191.31
5/16/2024	8:59:44 AM	0.9	0.000	0.02	23.97	0.11	191.33
5/16/2024	9:00:47 AM	0.9	0.000	0.29	16.36	0.17	191.23
5/16/2024	9:01:50 AM	0.9	0.000	0.14	20.23	0.27	191.32
5/16/2024	9:02:53 AM	0.9	0.000	0.05	20.21	0.28	191.35
5/16/2024	9:03:56 AM	0.9	0.000	0.15	20.90	0.36	191.35
5/16/2024	9:04:58 AM	0.9	0.000	0.23	17.93	0.11	191.36
5/16/2024	9:06:01 AM	0.9	0.000	0.15	16.68	0.12	191.36
5/16/2024	9:07:04 AM	0.9	0.000	0.18	8.83	0.18	191.41
5/16/2024	9:08:07 AM	0.9	0.000	0.16	7.31	0.15	191.42
5/16/2024	9:09:10 AM	0.9	0.000	0.16	5.57	0.08	191.41
5/16/2024	9:10:13 AM	0.9	0.000	-0.01	4.72	0.12	191.42
5/16/2024	9:11:16 AM	0.9	0.000	0.14	6.16	0.17	191.42
5/16/2024	9:12:19 AM	0.9	0.000	0.18	5.91	0.22	191.42
5/16/2024	9:13:21 AM	0.9	0.000	0.17	4.56	0.16	191.41
5/16/2024	9:14:24 AM	0.9	0.000	0.36	9.86	0.14	191.40
5/16/2024	9:15:27 AM	0.9	0.000	0.16	14.50	0.22	191.36
5/16/2024	9:16:30 AM	0.9	0.000	-0.12	24.01	0.22	191.35
5/16/2024	9:17:33 AM	0.9	0.000	0.14	14.06	0.33	191.30
5/16/2024	9:18:36 AM	0.9	0.000	0.47	17.20	0.24	191.33
5/16/2024	9:19:39 AM	0.9	0.000	0.31	16.82	0.29	191.34
5/16/2024	9:20:42 AM	0.9	0.000	0.08	20.91	0.32	191.37
5/16/2024	9:21:45 AM	0.9	0.000	0.45	17.82	0.18	191.37
5/16/2024	9:22:47 AM	0.9	0.000	0.34	18.04	0.22	191.35
5/16/2024	9:23:50 AM	0.9	0.000	0.25	16.71	0.25	191.36
5/16/2024	9:24:53 AM	0.9	0.000	-0.13	24.71	0.60	191.31
5/16/2024	9:25:56 AM	0.9	0.000	0.17	15.35	0.22	191.29
5/16/2024	9:26:59 AM	0.9	0.000	0.15	20.46	0.31	191.33
5/16/2024	9:28:02 AM	0.9	0.000	0.17	19.23	0.14	191.32
5/16/2024	9:29:05 AM	0.9	0.000	0.37	18.94	0.36	191.34
5/16/2024	9:30:08 AM	0.9	0.000	0.39	19.65	0.23	191.35
5/16/2024	9:31:10 AM	0.9	0.000	0.24	19.80	0.16	191.35
5/16/2024	9:32:13 AM	0.9	0.000	0.31	15.64	0.14	191.34
5/16/2024	9:33:16 AM	0.9	0.000	0.34	18.99	0.31	191.35
5/16/2024	9:34:19 AM	0.9	0.000	-0.23	25.05	0.20	191.33
5/16/2024	9:35:22 AM	0.9	0.000	0.37	18.77	0.32	191.34
5/16/2024	9:36:25 AM	0.9	0.000	0.28	18.86	0.29	191.36
5/16/2024	9:37:28 AM	0.9	0.000	0.48	18.59	0.24	191.36
5/16/2024	9:38:31 AM	0.9	0.000	-0.09	21.93	0.16	191.32
5/16/2024	9:39:33 AM	0.9	0.000	0.05	21.07	0.27	191.34
5/16/2024	9:40:36 AM	0.9	0.000	0.18	19.80	0.20	191.35
5/16/2024	9:41:39 AM	0.9	0.000	0.16	18.79	0.30	191.35
5/16/2024	9:42:42 AM	0.9	0.000	0.31	18.16	0.35	191.37
5/16/2024	9:43:45 AM	0.9	0.000	0.39	20.68	0.21	191.36
5/16/2024	9:44:48 AM	0.9	0.000	0.32	18.77	0.21	191.36
5/16/2024	9:45:51 AM	0.9	0.000	0.34	18.25	0.34	191.37
5/16/2024	9:46:54 AM	0.9	0.000	-0.06	23.44	0.26	191.26
5/16/2024	9:47:56 AM	0.9	0.000	0.17	20.68	0.22	191.32
5/16/2024	9:48:59 AM	0.9	0.000	0.20	18.48	0.26	191.33
5/16/2024	9:50:02 AM	0.9	0.000	0.35	16.56	0.25	191.36
5/16/2024	9:51:05 AM	0.9	0.000	-0.06	24.56	0.21	191.25
5/16/2024	9:52:08 AM	0.9	0.000	0.21	19.58	0.27	191.32
5/16/2024	9:53:11 AM	0.9	0.000	0.18	18.20	0.29	191.35
5/16/2024	9:54:14 AM	0.9	0.000	0.04	20.93	0.15	191.36
5/16/2024	9:55:17 AM	0.9	0.000	0.13	21.08	0.27	191.37
5/16/2024	9:56:19 AM	0.9	0.000	0.17	19.91	0.29	191.37
5/16/2024	9:57:22 AM	0.9	0.000	0.11	19.53	0.23	191.35

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/16/2024	9:58:25 AM	0.9	0.000	0.21	15.56	0.25	191.37
5/16/2024	9:59:28 AM	0.9	0.000	0.13	20.37	0.34	191.36
5/16/2024	10:00:31 AM	0.9	0.000	0.07	21.36	0.32	191.36
5/16/2024	10:01:34 AM	0.9	0.000	-0.02	23.15	0.38	191.35
5/16/2024	10:02:37 AM	0.9	0.000	0.15	19.83	0.33	191.35
5/16/2024	10:03:40 AM	0.9	0.000	-0.28	25.31	0.39	191.34
5/16/2024	10:04:42 AM	0.9	0.000	0.41	18.20	0.33	191.35
5/16/2024	10:05:45 AM	0.9	0.000	0.27	13.49	0.23	191.36
5/16/2024	10:06:48 AM	0.9	0.000	0.10	19.96	0.23	191.38
5/16/2024	10:07:51 AM	0.9	0.000	0.16	20.01	0.25	191.37
5/16/2024	10:08:54 AM	0.9	0.000	0.11	20.96	0.23	191.36
5/16/2024	10:09:57 AM	0.9	0.000	0.19	20.08	0.31	191.36
5/16/2024	10:11:00 AM	0.9	0.000	0.26	17.74	0.28	191.37
5/16/2024	10:12:03 AM	0.9	0.000	0.25	17.02	0.25	191.38
5/16/2024	10:13:05 AM	0.9	0.000	-0.35	27.50	0.08	191.35
5/16/2024	10:14:08 AM	0.9	0.000	0.04	15.37	-0.14	191.31
5/16/2024	10:15:11 AM	0.9	0.000	0.20	9.91	0.11	191.34
5/16/2024	10:16:14 AM	0.9	0.000	0.13	5.46	0.06	191.38
5/16/2024	10:17:17 AM	0.9	0.000	0.01	4.74	0.08	191.41
5/16/2024	10:18:20 AM	0.9	0.000	0.08	4.50	0.10	191.41
5/16/2024	10:19:23 AM	0.9	0.000	0.11	4.42	0.22	191.42
5/16/2024	10:20:26 AM	0.9	0.000	0.28	8.48	0.30	191.42
5/16/2024	10:21:28 AM	0.9	0.000	0.12	11.23	0.31	191.43
5/16/2024	10:22:31 AM	0.9	0.000	0.36	18.24	0.23	191.38
5/16/2024	10:23:34 AM	0.9	0.000	0.33	18.19	0.33	191.38
5/16/2024	10:24:37 AM	0.9	0.000	0.08	15.40	0.26	191.37
5/16/2024	10:25:40 AM	0.9	0.000	0.21	16.47	0.19	191.37
5/16/2024	10:26:43 AM	0.9	0.000	0.27	18.83	0.34	191.37
5/16/2024	10:27:46 AM	0.9	0.000	0.36	17.90	0.25	191.36
5/16/2024	10:28:49 AM	0.9	0.000	0.37	18.91	0.23	191.38
5/16/2024	10:29:51 AM	0.9	0.000	0.52	19.07	0.16	191.38
5/16/2024	10:30:54 AM	0.9	0.000	0.31	20.33	0.41	191.33
5/16/2024	10:31:57 AM	0.9	0.000	0.11	20.92	0.25	191.34
5/16/2024	10:33:00 AM	0.9	0.000	0.48	18.37	0.20	191.36
5/16/2024	10:34:03 AM	0.9	0.000	0.27	18.00	0.21	191.36
5/16/2024	10:35:06 AM	0.9	0.000	0.31	19.58	0.34	191.37
5/16/2024	10:36:09 AM	0.9	0.000	0.09	19.99	0.28	191.34
5/16/2024	10:37:12 AM	0.9	0.000	0.11	19.47	0.30	191.34
5/16/2024	10:38:15 AM	0.9	0.000	0.07	21.12	0.29	191.31
5/16/2024	10:39:17 AM	0.9	0.000	0.29	17.84	0.27	191.33
5/16/2024	10:40:20 AM	0.9	0.000	0.30	17.69	0.38	191.34
5/16/2024	10:41:23 AM	0.9	0.000	0.32	19.20	0.30	191.35
5/16/2024	10:42:26 AM	0.9	0.000	0.22	18.63	0.25	191.37
5/16/2024	10:43:29 AM	0.9	0.000	-0.24	25.60	0.25	191.36
5/16/2024	10:44:32 AM	0.9	0.000	0.29	18.75	0.27	191.36
5/16/2024	10:45:35 AM	0.9	0.000	-0.04	22.62	0.44	191.35
5/16/2024	10:46:38 AM	0.9	0.000	0.37	18.61	0.21	191.36
5/16/2024	10:47:40 AM	0.9	0.000	0.25	18.75	0.16	191.37
5/16/2024	10:48:43 AM	0.9	0.000	0.11	20.85	0.41	191.38
5/16/2024	10:49:46 AM	0.9	0.000	-0.17	24.75	0.30	191.33
5/16/2024	10:50:49 AM	0.9	0.000	0.40	18.48	0.25	191.31
5/16/2024	10:51:52 AM	0.9	0.000	0.40	19.93	0.29	191.35
5/16/2024	10:52:55 AM	0.9	0.000	0.27	18.38	0.32	191.37
5/16/2024	10:53:58 AM	0.9	0.000	0.39	20.68	0.26	191.38
5/16/2024	10:55:01 AM	0.9	0.000	0.03	21.56	0.40	191.37
5/16/2024	10:56:03 AM	0.9	0.000	0.04	21.14	0.29	191.35
5/16/2024	10:57:06 AM	0.9	0.000	0.10	20.76	0.25	191.34
5/16/2024	10:58:09 AM	0.9	0.000	0.42	17.14	0.27	191.35
5/16/2024	10:59:12 AM	0.9	0.000	0.05	22.44	0.23	191.38
5/16/2024	11:00:15 AM	0.9	0.000	0.38	19.21	0.27	191.36
5/16/2024	11:01:18 AM	0.9	0.000	0.48	20.17	0.35	191.35
5/16/2024	11:02:21 AM	0.9	0.000	0.19	16.52	0.33	191.36
5/16/2024	11:03:24 AM	0.9	0.000	0.43	18.60	0.20	191.37
5/16/2024	11:04:26 AM	0.9	0.000	0.67	17.61	0.02	191.38

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/16/2024	11:05:29 AM	0.9	0.000	0.32	18.76	0.21	191.28
5/16/2024	11:06:32 AM	0.9	0.000	-0.11	24.35	0.35	191.33
5/16/2024	11:07:35 AM	0.9	0.000	0.34	17.88	0.29	191.37
5/16/2024	11:08:38 AM	0.9	0.000	0.48	18.42	0.23	191.37
5/16/2024	11:09:41 AM	0.9	0.000	0.37	17.20	0.31	191.35
5/16/2024	11:10:44 AM	0.9	0.000	0.33	18.03	0.23	191.37
5/16/2024	11:11:47 AM	0.9	0.000	-0.05	23.55	0.39	191.36
5/16/2024	11:12:49 AM	0.9	0.000	0.27	18.13	0.22	191.33
5/16/2024	11:13:52 AM	0.9	0.000	0.13	18.96	0.09	191.36
5/16/2024	11:14:55 AM	0.9	0.000	0.10	15.00	0.04	191.36
5/16/2024	11:15:58 AM	0.9	0.000	0.01	6.43	0.14	191.39
5/16/2024	11:17:01 AM	0.9	0.000	0.09	5.11	0.06	191.41
5/16/2024	11:18:04 AM	0.9	0.000	-0.02	4.25	0.12	191.42
5/16/2024	11:19:07 AM	0.8	0.000	0.17	5.24	2.09	191.44
5/16/2024	11:20:10 AM	1.0	0.000	-0.19	1.69	53.99	191.45
5/16/2024	11:21:12 AM	1.0	0.000	-0.21	0.08	99.27	191.58
5/16/2024	11:22:15 AM	1.0	0.000	-0.07	-0.01	99.56	191.60
5/16/2024	11:23:18 AM	1.0	0.000	-0.09	-0.01	99.78	191.61
5/16/2024	11:24:21 AM	1.0	0.000	0.01	0.01	41.73	191.67
5/16/2024	11:25:24 AM	1.0	0.000	-0.03	0.00	0.05	191.72
5/16/2024	11:26:27 AM	1.0	0.000	-0.06	0.00	0.00	191.73
5/16/2024	11:27:30 AM	1.0	0.000	-0.02	-0.01	0.02	191.72
5/16/2024	11:28:33 AM	1.0	0.000	-0.07	0.00	0.02	191.74
5/16/2024	11:29:36 AM	1.0	0.000	-0.10	0.00	0.01	191.74
5/16/2024	11:31:53 AM	1.0	0.000	0.00	0.00	0.00	191.72
5/16/2024	11:33:02 AM	1.0	0.000	0.02	0.00	-0.04	191.75
5/16/2024	11:34:05 AM	0.9	0.000	0.01	11.08	0.01	191.63
5/16/2024	11:35:08 AM	0.9	0.000	0.34	7.99	0.23	191.39
5/16/2024	11:36:11 AM	0.9	0.000	0.12	10.82	0.28	191.36
5/16/2024	11:37:14 AM	0.9	0.000	0.25	17.83	0.17	191.24
5/16/2024	11:38:17 AM	0.9	0.000	0.40	19.96	0.18	191.15
5/16/2024	11:39:20 AM	0.9	0.000	0.17	15.50	0.12	191.08
5/16/2024	11:40:22 AM	0.9	0.000	0.28	18.58	0.29	191.13
5/16/2024	11:41:25 AM	0.9	0.000	0.45	19.79	0.39	191.26
5/16/2024	11:42:28 AM	0.9	0.000	0.09	21.04	0.27	191.27
5/16/2024	11:43:31 AM	0.9	0.000	0.23	18.58	0.26	191.32
5/16/2024	11:44:34 AM	0.9	0.000	0.36	20.30	0.13	191.34
5/16/2024	11:45:37 AM	0.9	0.000	0.10	20.87	0.41	191.34
5/16/2024	11:46:40 AM	0.9	0.000	0.34	17.02	0.22	191.35
5/16/2024	11:47:43 AM	0.9	0.000	0.35	18.62	0.23	191.34
5/16/2024	11:48:45 AM	0.9	0.000	0.27	19.83	0.20	191.34
5/16/2024	11:49:48 AM	0.9	0.000	-0.04	22.07	0.19	191.32
5/16/2024	11:50:51 AM	0.9	0.000	0.04	20.95	0.25	191.31
5/16/2024	11:51:54 AM	0.9	0.000	0.27	15.05	0.18	191.35
5/16/2024	11:52:57 AM	0.9	0.000	0.05	23.27	-0.05	191.35
5/16/2024	11:54:00 AM	0.9	0.000	0.06	22.20	0.28	191.32
5/16/2024	11:55:03 AM	0.9	0.000	0.18	19.53	0.21	191.32
5/16/2024	11:56:06 AM	0.9	0.000	0.29	15.08	0.17	191.35
5/16/2024	11:57:09 AM	0.9	0.000	-0.18	25.49	0.14	191.35
5/16/2024	11:58:11 AM	0.9	0.000	0.41	17.60	0.22	191.35
5/16/2024	11:59:14 AM	0.9	0.000	0.11	21.04	0.24	191.35
5/16/2024	12:00:17 PM	0.9	0.000	0.39	18.11	-0.01	191.36
5/16/2024	12:01:20 PM	0.9	0.000	0.38	16.64	0.21	191.35
5/16/2024	12:02:23 PM	0.9	0.000	-0.40	28.93	0.46	191.35
5/16/2024	12:03:26 PM	0.9	0.000	-0.01	21.95	0.23	191.29
5/16/2024	12:04:29 PM	0.9	0.000	0.33	19.49	0.21	191.33
5/16/2024	12:05:32 PM	0.9	0.000	0.26	19.61	0.19	191.35
5/16/2024	12:06:34 PM	0.9	0.000	0.33	15.78	0.09	191.35
5/16/2024	12:07:37 PM	0.9	0.000	0.13	22.29	0.27	191.36
5/16/2024	12:08:40 PM	0.9	0.000	0.48	19.19	0.21	191.34
5/16/2024	12:09:43 PM	0.9	0.000	0.54	19.98	0.11	191.36
5/16/2024	12:10:46 PM	0.9	0.000	0.38	17.65	0.16	191.34
5/16/2024	12:11:49 PM	0.9	0.000	0.26	19.60	0.19	191.35
5/16/2024	12:12:52 PM	0.9	0.000	0.08	22.73	0.37	191.34

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/16/2024	12:13:55 PM	0.9	0.000	0.43	16.96	0.17	191.35
5/16/2024	12:14:57 PM	0.9	0.000	0.29	19.54	0.14	191.35
5/16/2024	12:16:00 PM	0.9	0.000	0.31	18.40	0.25	191.35
5/16/2024	12:17:03 PM	0.9	0.000	0.11	21.84	0.27	191.34
5/16/2024	12:18:06 PM	0.9	0.000	0.00	21.76	0.33	191.36
5/16/2024	12:19:09 PM	0.9	0.000	0.46	19.09	0.26	191.36
5/16/2024	12:20:12 PM	0.9	0.000	0.40	20.10	0.28	191.37
5/16/2024	12:21:15 PM	0.9	0.000	0.57	16.66	0.03	191.38
5/16/2024	12:22:18 PM	0.9	0.000	0.07	20.99	0.36	191.35
5/16/2024	12:23:20 PM	0.9	0.000	0.07	21.85	0.26	191.35
5/16/2024	12:24:23 PM	0.9	0.000	0.53	17.86	0.10	191.36
5/16/2024	12:25:26 PM	0.9	0.000	0.14	21.73	0.36	191.35
5/16/2024	12:26:29 PM	0.9	0.000	0.42	17.52	0.19	191.35
5/16/2024	12:27:32 PM	0.9	0.000	0.16	21.80	0.28	191.37
5/16/2024	12:28:35 PM	0.9	0.000	0.49	19.02	0.24	191.35
5/16/2024	12:29:38 PM	0.9	0.000	0.59	19.08	0.21	191.35
5/16/2024	12:30:41 PM	0.9	0.000	0.56	19.53	0.03	191.37
5/16/2024	12:31:44 PM	0.9	0.000	0.20	21.12	0.25	191.35
5/16/2024	12:32:46 PM	0.9	0.000	0.40	16.98	0.23	191.36
5/16/2024	12:33:50 PM	0.9	0.000	0.19	20.57	0.26	191.36
5/16/2024	12:34:52 PM	0.9	0.000	0.33	18.16	0.24	191.37
5/16/2024	12:35:55 PM	0.9	0.000	0.00	24.52	0.51	191.36
5/16/2024	12:36:58 PM	0.9	0.000	0.51	15.94	-0.18	191.37
5/16/2024	12:38:01 PM	0.9	0.000	0.10	21.41	0.14	191.32
5/16/2024	12:39:04 PM	0.9	0.000	0.22	19.61	0.22	191.36
5/16/2024	12:40:07 PM	0.9	0.000	0.07	22.56	0.22	191.35
5/16/2024	12:41:09 PM	0.9	0.000	-0.04	23.90	0.42	191.32
5/16/2024	12:42:12 PM	0.9	0.000	0.29	18.85	0.23	191.35
5/16/2024	12:43:15 PM	0.9	0.000	-0.04	20.30	0.00	191.36
5/16/2024	12:44:18 PM	0.9	0.000	0.07	16.08	-0.02	191.37
5/16/2024	12:45:21 PM	0.9	0.000	0.06	11.23	-0.08	191.40
5/16/2024	12:46:24 PM	0.9	0.000	0.24	6.94	0.03	191.43
5/16/2024	12:47:27 PM	0.9	0.000	0.18	6.03	0.08	191.38
5/16/2024	12:48:30 PM	0.9	0.000	0.20	6.21	0.17	191.40
5/16/2024	12:49:32 PM	0.9	0.000	0.29	5.00	0.19	191.42
5/16/2024	12:50:35 PM	0.9	0.000	0.14	4.67	0.08	191.43
5/16/2024	12:51:38 PM	0.9	0.000	0.32	7.78	-0.09	191.44
5/16/2024	12:52:41 PM	0.9	0.000	0.28	16.00	0.31	191.36
5/16/2024	12:53:44 PM	0.9	0.000	0.19	15.31	0.05	191.38
5/16/2024	12:54:47 PM	0.9	0.000	0.18	21.43	0.38	191.35
5/16/2024	12:55:50 PM	0.9	0.000	0.46	16.56	0.17	191.35
5/16/2024	12:56:53 PM	0.9	0.000	0.45	17.98	0.22	191.35
5/16/2024	12:57:56 PM	0.9	0.000	0.40	18.32	0.21	191.35
5/16/2024	12:58:58 PM	0.9	0.000	0.27	17.98	0.17	191.38
5/16/2024	1:00:01 PM	0.9	0.000	-0.05	25.08	0.23	191.35
5/16/2024	1:01:04 PM	0.9	0.000	0.31	17.74	0.31	191.34
5/16/2024	1:02:07 PM	0.9	0.000	0.60	19.51	0.19	191.37
5/16/2024	1:03:10 PM	0.9	0.000	0.31	18.85	0.24	191.36
5/16/2024	1:04:13 PM	0.9	0.000	0.44	19.15	0.13	191.36
5/16/2024	1:05:16 PM	0.9	0.000	0.13	21.55	0.10	191.36
5/16/2024	1:06:19 PM	0.9	0.000	0.37	16.96	0.25	191.36
5/16/2024	1:07:21 PM	0.9	0.000	0.36	18.94	0.10	191.34
5/16/2024	1:08:24 PM	0.9	0.000	0.35	20.20	0.14	191.35
5/16/2024	1:09:27 PM	0.9	0.000	-0.17	24.95	0.14	191.34
5/16/2024	1:10:30 PM	0.9	0.000	0.21	20.33	0.38	191.34
5/16/2024	1:11:33 PM	0.9	0.000	0.23	18.63	0.27	191.34
5/16/2024	1:12:36 PM	0.9	0.000	0.13	20.94	0.25	191.35
5/16/2024	1:13:39 PM	0.9	0.000	0.08	21.27	0.26	191.35
5/16/2024	1:14:42 PM	0.9	0.000	0.03	22.67	0.39	191.28
5/16/2024	1:15:44 PM	0.9	0.000	0.41	18.98	0.08	191.27
5/16/2024	1:16:47 PM	0.9	0.000	-0.02	23.83	0.24	191.32
5/16/2024	1:17:50 PM	0.9	0.000	0.39	17.78	0.26	191.33
5/16/2024	1:18:53 PM	0.9	0.000	0.42	18.15	0.16	191.35
5/16/2024	1:19:56 PM	0.9	0.000	0.44	20.15	0.18	191.35

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/16/2024	1:20:59 PM	0.9	0.000	0.24	20.07	-0.09	191.35
5/16/2024	1:22:02 PM	0.9	0.000	0.36	18.28	0.12	191.34
5/16/2024	1:23:05 PM	0.9	0.000	0.01	23.57	0.12	191.34
5/16/2024	1:24:08 PM	0.9	0.000	0.34	17.68	0.22	191.34
5/16/2024	1:25:10 PM	0.9	0.000	0.05	22.39	0.17	191.34
5/16/2024	1:26:14 PM	0.9	0.000	0.38	14.88	0.05	191.36
5/16/2024	1:27:16 PM	0.9	0.000	0.54	17.78	0.01	191.29
5/16/2024	1:28:19 PM	0.9	0.000	0.49	20.62	0.18	191.33
5/16/2024	1:29:22 PM	0.9	0.000	0.23	19.90	0.20	191.35
5/16/2024	1:30:25 PM	0.9	0.000	-0.02	23.08	0.26	191.35
5/16/2024	1:31:28 PM	0.9	0.000	0.36	18.72	0.23	191.37
5/16/2024	1:32:30 PM	0.9	0.000	0.15	21.62	0.01	191.40
5/16/2024	1:33:33 PM	0.9	0.000	0.49	19.30	0.18	191.37
5/16/2024	1:34:36 PM	0.9	0.000	0.33	18.46	0.15	191.41
5/16/2024	1:35:39 PM	0.9	0.000	-0.20	27.18	0.17	191.34
5/16/2024	1:36:42 PM	0.9	0.000	0.39	19.08	0.18	191.33
5/16/2024	1:37:45 PM	0.9	0.000	0.48	18.74	0.21	191.36
5/16/2024	1:38:48 PM	0.9	0.000	0.48	19.98	0.19	191.35
5/16/2024	1:39:51 PM	0.9	0.000	0.20	21.25	0.26	191.36
5/16/2024	1:40:54 PM	0.9	0.000	0.45	19.05	0.17	191.35
5/16/2024	1:41:56 PM	0.9	0.000	0.27	19.43	0.19	191.35
5/16/2024	1:42:59 PM	0.9	0.000	-0.08	24.38	0.20	191.34
5/16/2024	1:44:02 PM	0.9	0.000	-0.01	22.46	0.23	191.29
5/16/2024	1:45:05 PM	0.9	0.000	0.18	20.39	0.19	191.32
5/16/2024	1:46:08 PM	0.9	0.000	-0.03	24.48	0.26	191.31
5/16/2024	1:47:11 PM	0.9	0.000	0.33	14.98	0.20	191.33
5/16/2024	1:48:14 PM	0.9	0.000	0.11	19.23	0.03	191.36
5/16/2024	1:49:17 PM	0.9	0.000	-0.18	22.86	0.08	191.35
5/16/2024	1:50:19 PM	0.9	0.000	0.12	11.67	0.10	191.34
5/16/2024	1:51:22 PM	0.9	0.000	0.21	9.93	0.11	191.35
5/16/2024	1:52:25 PM	0.9	0.000	0.18	6.21	0.07	191.36
5/16/2024	1:53:28 PM	0.9	0.000	0.23	7.86	0.13	191.39
5/16/2024	1:54:31 PM	0.9	0.000	0.32	6.49	0.20	191.39
5/16/2024	1:55:34 PM	0.9	0.000	0.28	5.67	0.13	191.37
5/16/2024	1:56:37 PM	0.9	0.000	0.31	8.23	0.16	191.38
5/16/2024	1:57:40 PM	0.9	0.000	0.24	19.51	0.22	191.33
5/16/2024	1:58:42 PM	0.9	0.000	0.23	15.16	0.18	191.35
5/16/2024	1:59:45 PM	0.9	0.000	0.47	17.95	0.24	191.35
5/16/2024	2:00:48 PM	0.9	0.000	0.30	16.06	0.22	191.34
5/16/2024	2:01:51 PM	0.9	0.000	0.02	22.39	0.27	191.35
5/16/2024	2:02:54 PM	0.9	0.000	0.19	12.11	0.06	191.35
5/16/2024	2:03:57 PM	0.9	0.000	0.17	19.79	0.21	191.31
5/16/2024	2:05:00 PM	0.9	0.000	0.56	17.53	0.19	191.34
5/16/2024	2:06:03 PM	0.9	0.000	0.27	20.29	0.12	191.31
5/16/2024	2:07:06 PM	0.9	0.000	0.28	17.80	0.15	191.29
5/16/2024	2:08:08 PM	0.9	0.000	0.52	18.54	0.17	191.35
5/16/2024	2:09:11 PM	0.9	0.000	0.44	18.41	0.16	191.37
5/16/2024	2:10:14 PM	0.9	0.000	0.13	21.66	0.22	191.36
5/16/2024	2:11:17 PM	0.9	0.000	0.37	18.43	0.21	191.36
5/16/2024	2:12:20 PM	0.9	0.000	0.36	17.77	0.14	191.35
5/16/2024	2:13:23 PM	0.9	0.000	0.17	21.72	0.25	191.36
5/16/2024	2:14:26 PM	0.9	0.000	0.23	19.51	0.25	191.36
5/16/2024	2:15:29 PM	0.9	0.000	0.20	20.44	0.22	191.37
5/16/2024	2:16:31 PM	0.9	0.000	0.19	20.81	0.23	191.34
5/16/2024	2:17:34 PM	0.9	0.000	-0.04	23.90	0.36	191.34
5/16/2024	2:18:37 PM	0.9	0.000	0.45	18.10	0.18	191.36
5/16/2024	2:19:40 PM	0.9	0.000	0.31	17.89	0.22	191.36
5/16/2024	2:20:43 PM	0.9	0.000	-0.15	26.87	0.17	191.34
5/16/2024	2:21:46 PM	0.9	0.000	0.28	13.69	0.15	191.30
5/16/2024	2:22:49 PM	0.9	0.000	0.08	22.32	0.16	191.33
5/16/2024	2:23:52 PM	0.9	0.000	0.15	21.86	0.26	191.34
5/16/2024	2:24:54 PM	0.9	0.000	0.36	18.32	0.21	191.35
5/16/2024	2:25:57 PM	0.9	0.000	-0.02	24.08	0.25	191.36
5/16/2024	2:27:00 PM	0.9	0.000	0.37	17.45	0.20	191.36



BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/16/2024	2:28:03 PM	0.9	0.000	0.39	18.10	0.14	191.38
5/16/2024	2:29:06 PM	0.9	0.000	0.12	23.99	0.11	191.36
5/16/2024	2:30:09 PM	0.9	0.000	0.10	22.59	0.20	191.35
5/16/2024	2:31:12 PM	0.9	0.000	0.54	17.64	0.09	191.34
5/16/2024	2:32:15 PM	0.9	0.000	0.52	17.24	0.14	191.35
5/16/2024	2:33:17 PM	0.9	0.000	0.53	18.79	0.19	191.35
5/16/2024	2:34:20 PM	0.9	0.000	0.35	19.77	0.30	191.36
5/16/2024	2:35:23 PM	0.9	0.000	0.46	16.73	0.16	191.37
5/16/2024	2:36:26 PM	0.9	0.000	-0.31	27.36	0.25	191.35
5/16/2024	2:37:29 PM	0.9	0.000	0.37	17.80	0.24	191.33
5/16/2024	2:38:32 PM	0.9	0.000	0.44	18.86	0.22	191.36
5/16/2024	2:39:35 PM	0.9	0.000	0.51	20.57	0.21	191.38
5/16/2024	2:40:38 PM	0.9	0.000	0.10	21.53	0.26	191.35
5/16/2024	2:41:41 PM	0.9	0.000	0.29	20.47	0.11	191.36
5/16/2024	2:42:43 PM	0.9	0.000	0.32	20.87	0.21	191.34
5/16/2024	2:43:46 PM	0.9	0.000	0.46	17.09	0.23	191.37
5/16/2024	2:44:49 PM	0.9	0.000	0.25	19.94	0.27	191.36
5/16/2024	2:45:52 PM	0.9	0.000	0.20	20.32	0.26	191.40
5/16/2024	2:46:55 PM	0.9	0.000	0.05	23.70	0.32	191.42
5/16/2024	2:47:58 PM	0.9	0.000	0.23	20.54	0.12	191.39
5/16/2024	2:49:01 PM	0.9	0.000	0.23	20.91	0.24	191.40
5/16/2024	2:50:04 PM	0.9	0.000	0.54	17.85	0.20	191.40
5/16/2024	2:51:06 PM	0.9	0.000	0.36	20.36	0.26	191.37
5/16/2024	2:52:09 PM	0.9	0.000	0.31	19.20	0.28	191.36
5/16/2024	2:53:12 PM	0.9	0.000	0.30	15.68	0.17	191.37
5/16/2024	2:54:15 PM	0.9	0.000	0.04	22.42	0.14	191.35
5/16/2024	2:55:18 PM	0.9	0.000	-0.05	23.68	0.17	191.36
5/16/2024	2:56:21 PM	0.9	0.000	0.12	19.50	0.13	191.33
5/16/2024	2:57:24 PM	0.9	0.000	0.27	10.22	-0.04	191.37
5/16/2024	2:58:27 PM	0.9	0.000	0.20	6.07	0.06	191.40
5/16/2024	2:59:30 PM	0.9	0.000	0.14	5.40	0.02	191.47
5/16/2024	3:00:32 PM	0.9	0.000	0.15	6.46	0.06	191.47
5/16/2024	3:01:35 PM	0.9	0.000	0.17	6.93	0.13	191.49
5/16/2024	3:02:38 PM	0.9	0.000	0.29	5.31	0.08	191.51
5/16/2024	3:03:41 PM	0.9	0.000	0.26	4.89	0.06	191.50
5/16/2024	3:04:44 PM	0.9	0.000	0.33	6.58	0.15	191.50
5/16/2024	3:05:47 PM	0.9	0.000	0.43	16.34	0.15	191.41
5/16/2024	3:06:50 PM	0.9	0.000	0.32	17.59	0.19	191.37
5/16/2024	3:07:53 PM	0.9	0.000	0.46	18.50	0.07	191.38
5/16/2024	3:08:55 PM	0.9	0.000	0.30	14.52	0.06	191.32
5/16/2024	3:09:58 PM	0.9	0.000	0.25	17.54	0.12	191.34
5/16/2024	3:11:01 PM	0.9	0.000	0.41	16.90	0.12	191.35
5/16/2024	3:12:04 PM	0.9	0.000	0.25	21.02	0.21	191.38
5/16/2024	3:13:07 PM	0.9	0.000	0.25	15.52	0.09	191.27
5/16/2024	3:14:10 PM	0.9	0.000	0.08	21.03	0.13	191.29
5/16/2024	3:15:13 PM	0.9	0.000	0.43	17.57	0.22	191.35
5/16/2024	3:16:16 PM	0.9	0.000	-0.01	23.06	0.21	191.35
5/16/2024	3:17:19 PM	0.9	0.000	0.26	20.47	0.19	191.38
5/16/2024	3:18:21 PM	0.9	0.000	0.27	18.98	0.16	191.40
5/16/2024	3:19:24 PM	0.9	0.000	0.39	19.53	0.14	191.41
5/16/2024	3:20:27 PM	0.9	0.000	0.18	20.94	0.20	191.41
5/16/2024	3:21:30 PM	0.9	0.000	0.34	13.24	0.17	191.41
5/16/2024	3:22:33 PM	0.9	0.000	-0.16	25.17	0.18	191.39
5/16/2024	3:23:36 PM	0.9	0.000	0.40	19.19	0.10	191.38
5/16/2024	3:24:39 PM	0.9	0.000	0.26	20.25	0.20	191.40
5/16/2024	3:25:41 PM	0.9	0.000	0.20	20.78	0.26	191.35
5/16/2024	3:26:44 PM	0.9	0.000	0.06	22.54	0.21	191.35
5/16/2024	3:27:47 PM	0.9	0.000	0.47	18.79	0.22	191.37
5/16/2024	3:28:50 PM	0.9	0.000	0.51	20.22	0.16	191.38
5/16/2024	3:29:53 PM	0.9	0.000	0.05	22.25	0.10	191.35
5/16/2024	3:30:56 PM	0.9	0.000	0.31	19.84	0.23	191.35
5/16/2024	3:31:59 PM	0.9	0.000	0.28	17.91	0.17	191.35
5/16/2024	3:33:02 PM	0.9	0.000	0.00	24.14	0.39	191.35
5/16/2024	3:34:05 PM	0.9	0.000	0.30	19.87	-0.03	191.37

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/16/2024	3:35:07 PM	0.9	0.000	0.26	14.25	0.09	191.35
5/16/2024	3:36:10 PM	0.9	0.000	0.30	19.65	0.18	191.39
5/16/2024	3:37:13 PM	0.9	0.000	0.23	21.47	0.19	191.39
5/16/2024	3:38:16 PM	0.9	0.000	0.53	18.97	0.19	191.42
5/16/2024	3:39:19 PM	0.9	0.000	0.35	18.21	0.13	191.40
5/16/2024	3:40:22 PM	0.9	0.000	0.56	20.38	-0.10	191.40
5/16/2024	3:41:25 PM	0.9	0.000	-0.09	25.07	0.23	191.38
5/16/2024	3:42:28 PM	0.9	0.000	0.54	19.24	0.26	191.34
5/16/2024	3:43:31 PM	0.9	0.000	0.16	21.53	0.24	191.37
5/16/2024	3:44:33 PM	0.9	0.000	0.55	18.26	0.19	191.38
5/16/2024	3:45:36 PM	0.9	0.000	-0.09	25.27	0.21	191.38
5/16/2024	3:46:39 PM	0.9	0.000	0.36	16.88	0.20	191.38
5/16/2024	3:47:42 PM	0.9	0.000	0.30	19.31	0.32	191.39
5/16/2024	3:48:45 PM	0.9	0.000	0.30	19.55	0.16	191.38
5/16/2024	3:49:48 PM	0.9	0.000	0.14	20.17	0.17	191.38
5/16/2024	3:50:51 PM	0.9	0.000	0.20	17.07	0.09	191.37
5/16/2024	3:51:54 PM	0.9	0.000	0.21	8.51	0.02	191.37
5/16/2024	3:52:56 PM	0.9	0.000	0.12	6.27	0.05	191.38
5/16/2024	3:53:59 PM	0.9	0.000	0.13	5.26	0.09	191.39
5/16/2024	3:55:02 PM	0.9	0.000	0.33	7.05	0.17	191.38
5/16/2024	3:56:05 PM	0.9	0.000	0.30	5.58	0.05	191.39
5/16/2024	3:57:08 PM	0.9	0.000	0.29	4.82	4.39	191.41
5/16/2024	3:58:11 PM	1.0	0.000	0.28	7.31	58.55	191.38
5/16/2024	3:59:14 PM	0.9	0.000	0.26	8.46	56.82	191.35
5/16/2024	4:00:17 PM	0.9	0.000	-0.30	0.55	97.44	191.44
5/16/2024	4:01:19 PM	1.0	0.000	-0.19	0.24	99.23	191.54
5/16/2024	4:02:22 PM	1.0	0.000	-0.04	0.06	99.28	191.59
5/16/2024	4:03:25 PM	1.0	0.000	0.09	0.01	99.32	191.62
5/16/2024	4:04:28 PM	1.0	0.000	0.11	0.01	99.51	191.63
5/16/2024	4:05:31 PM	1.0	0.000	0.07	0.02	20.26	191.66
5/16/2024	4:06:34 PM	1.0	0.000	0.02	0.02	0.04	191.69
5/16/2024	4:07:37 PM	1.0	0.000	0.04	0.02	-0.04	191.70
5/16/2024	4:08:40 PM	1.0	0.000	0.08	0.02	0.04	191.71
5/16/2024	4:09:42 PM	1.0	0.000	0.15	0.01	-0.02	191.71
5/16/2024	4:12:17 PM	1.0	0.000	0.00	0.00	0.00	191.70
5/17/2024	6:24:03 AM	1.0	0.000	-0.01	0.00	0.01	191.79
5/17/2024	6:25:05 AM	1.0	0.000	-0.07	0.00	-0.02	191.65
5/17/2024	6:26:08 AM	1.0	0.000	-0.13	0.00	0.01	191.60
5/17/2024	6:27:11 AM	1.0	0.000	-0.01	0.00	-0.02	191.54
5/17/2024	6:29:29 AM	1.0	0.000	0.00	0.00	0.00	191.52
5/17/2024	6:30:38 AM	1.0	0.000	-0.04	0.00	-0.07	191.52
5/17/2024	6:31:41 AM	1.0	0.000	-0.05	0.01	24.25	191.56
5/17/2024	6:32:44 AM	1.0	0.000	0.08	-0.02	99.69	191.54
5/17/2024	6:33:47 AM	1.0	0.000	0.01	-0.01	99.92	191.50
5/17/2024	6:34:49 AM	1.0	0.000	0.13	-0.02	99.44	191.50
5/17/2024	6:35:52 AM	1.0	0.000	0.01	-0.01	99.61	191.49
5/17/2024	6:36:55 AM	0.9	0.000	0.12	2.33	15.45	191.43
5/17/2024	6:37:58 AM	1.0	0.000	0.33	3.10	0.04	191.52
5/17/2024	6:39:01 AM	0.9	0.000	0.83	16.54	-0.26	191.38
5/17/2024	6:40:04 AM	0.9	0.000	0.04	13.60	0.12	190.85
5/17/2024	6:41:07 AM	0.9	0.000	-0.17	12.36	0.02	191.03
5/17/2024	6:42:09 AM	0.9	0.000	0.03	10.24	0.12	191.13
5/17/2024	6:43:12 AM	0.9	0.000	0.17	5.59	0.11	191.25
5/17/2024	6:44:15 AM	0.9	0.000	0.14	3.70	-0.06	191.32
5/17/2024	6:45:18 AM	0.9	0.000	0.11	4.72	-0.04	191.31
5/17/2024	6:46:21 AM	0.9	0.000	0.13	4.60	0.02	191.35
5/17/2024	6:47:24 AM	0.9	0.000	0.18	3.03	-0.10	191.33
5/17/2024	6:48:27 AM	0.9	0.000	0.14	2.73	0.05	191.33
5/17/2024	6:49:30 AM	0.9	0.000	0.03	2.61	-0.09	191.35
5/17/2024	6:50:32 AM	0.9	0.000	0.06	2.53	-0.02	191.36
5/17/2024	6:51:35 AM	0.9	0.000	0.10	2.49	-0.05	191.35
5/17/2024	6:52:38 AM	0.9	0.000	0.07	2.45	0.01	191.36
5/17/2024	6:53:41 AM	0.9	0.000	0.12	2.44	-0.01	191.37

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/17/2024	6:54:44 AM	0.9	0.000	0.17	2.45	0.00	191.36
5/17/2024	6:55:47 AM	0.9	0.000	0.10	2.43	-0.03	191.36
5/17/2024	6:56:50 AM	0.9	0.000	0.24	2.43	0.13	191.37
5/17/2024	6:57:52 AM	0.9	0.000	0.17	2.42	0.12	191.37
5/17/2024	6:58:55 AM	0.9	0.000	0.18	2.51	0.07	191.36
5/17/2024	6:59:58 AM	0.9	0.000	0.32	10.94	0.24	191.36
5/17/2024	7:01:01 AM	0.9	0.000	0.28	13.00	0.19	191.33
5/17/2024	7:02:04 AM	0.9	0.000	0.40	18.62	0.24	191.32
5/17/2024	7:03:07 AM	0.9	0.000	0.12	20.90	0.22	191.27
5/17/2024	7:04:10 AM	0.9	0.000	0.28	17.54	0.23	191.24
5/17/2024	7:05:13 AM	0.9	0.000	0.29	16.90	0.16	191.26
5/17/2024	7:06:15 AM	0.9	0.000	0.12	20.30	0.23	191.30
5/17/2024	7:07:18 AM	0.9	0.000	0.23	19.01	0.26	191.30
5/17/2024	7:08:21 AM	0.9	0.000	0.34	16.91	0.27	191.29
5/17/2024	7:09:24 AM	0.9	0.000	0.09	21.40	0.35	191.23
5/17/2024	7:10:27 AM	0.9	0.000	0.40	18.26	0.31	191.31
5/17/2024	7:11:30 AM	0.9	0.000	0.49	18.72	0.31	191.29
5/17/2024	7:12:33 AM	0.9	0.000	0.05	21.96	0.37	191.28
5/17/2024	7:13:35 AM	0.9	0.000	0.40	19.23	0.28	191.31
5/17/2024	7:14:38 AM	0.9	0.000	-0.05	23.95	0.18	191.30
5/17/2024	7:15:41 AM	0.9	0.000	0.19	19.92	0.27	191.23
5/17/2024	7:16:44 AM	0.9	0.000	0.13	21.94	0.33	191.27
5/17/2024	7:17:47 AM	0.9	0.000	0.25	16.05	0.14	191.31
5/17/2024	7:18:50 AM	0.9	0.000	0.26	19.54	0.30	191.36
5/17/2024	7:19:53 AM	0.9	0.000	0.16	21.48	0.27	191.32
5/17/2024	7:20:56 AM	0.9	0.000	0.48	17.06	0.15	191.35
5/17/2024	7:21:58 AM	0.9	0.000	0.12	21.38	0.30	191.33
5/17/2024	7:23:01 AM	0.9	0.000	0.36	17.35	0.27	191.35
5/17/2024	7:24:04 AM	0.9	0.000	0.12	21.72	0.28	191.35
5/17/2024	7:25:07 AM	0.9	0.000	0.31	13.60	0.18	191.34
5/17/2024	7:26:10 AM	0.9	0.000	0.06	22.20	0.33	191.36
5/17/2024	7:27:13 AM	0.9	0.000	-0.01	23.06	0.27	191.34
5/17/2024	7:28:16 AM	0.9	0.000	0.21	19.70	0.09	191.23
5/17/2024	7:29:19 AM	0.9	0.000	0.31	17.85	0.16	191.32
5/17/2024	7:30:21 AM	0.9	0.000	0.38	17.36	0.25	191.34
5/17/2024	7:31:24 AM	0.9	0.000	0.41	18.19	0.23	191.35
5/17/2024	7:32:27 AM	0.9	0.000	0.17	20.79	0.36	191.35
5/17/2024	7:33:30 AM	0.9	0.000	0.25	20.65	0.22	191.36
5/17/2024	7:34:33 AM	0.9	0.000	0.19	20.33	0.33	191.34
5/17/2024	7:35:36 AM	0.9	0.000	0.06	21.17	0.31	191.33
5/17/2024	7:36:39 AM	0.9	0.000	0.43	18.71	0.25	191.35
5/17/2024	7:37:42 AM	0.9	0.000	0.13	22.66	0.13	191.35
5/17/2024	7:38:44 AM	0.9	0.000	0.17	19.78	0.18	191.32
5/17/2024	7:39:47 AM	0.9	0.000	0.17	19.70	0.24	191.34
5/17/2024	7:40:50 AM	0.9	0.000	0.29	14.43	0.18	191.34
5/17/2024	7:41:53 AM	0.9	0.000	0.18	19.43	0.26	191.36
5/17/2024	7:42:56 AM	0.9	0.000	0.37	18.51	0.28	191.34
5/17/2024	7:43:59 AM	0.9	0.000	0.41	17.63	0.20	191.36
5/17/2024	7:45:02 AM	0.9	0.000	0.15	20.40	0.30	191.37
5/17/2024	7:46:05 AM	0.9	0.000	0.20	20.06	0.23	191.35
5/17/2024	7:47:07 AM	0.9	0.000	0.05	22.71	0.32	191.33
5/17/2024	7:48:10 AM	0.9	0.000	0.34	19.05	0.17	191.34
5/17/2024	7:49:13 AM	0.9	0.000	0.44	16.80	0.15	191.35
5/17/2024	7:50:16 AM	0.9	0.000	0.16	19.94	0.26	191.35
5/17/2024	7:51:19 AM	0.9	0.000	-0.18	25.52	0.32	191.33
5/17/2024	7:52:22 AM	0.9	0.000	0.35	18.13	0.27	191.34
5/17/2024	7:53:25 AM	0.9	0.000	0.46	17.74	0.20	191.36
5/17/2024	7:54:28 AM	0.9	0.000	-0.18	26.68	0.44	191.34
5/17/2024	7:55:30 AM	0.9	0.000	0.35	19.11	0.06	191.25
5/17/2024	7:56:33 AM	0.9	0.000	0.17	14.12	-0.04	191.29
5/17/2024	7:57:36 AM	0.9	0.000	0.19	7.14	0.08	191.36
5/17/2024	7:58:39 AM	0.9	0.000	0.09	4.01	-0.01	191.39
5/17/2024	7:59:42 AM	0.9	0.000	0.21	7.37	0.12	191.42
5/17/2024	8:00:45 AM	0.9	0.000	0.16	3.82	-0.04	191.43

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/17/2024	8:01:48 AM	0.9	0.000	0.06	2.84	0.02	191.42
5/17/2024	8:02:51 AM	0.9	0.000	0.19	2.62	0.12	191.44
5/17/2024	8:03:54 AM	0.9	0.000	0.10	2.54	0.13	191.46
5/17/2024	8:04:56 AM	0.9	0.000	0.38	8.80	0.11	191.43
5/17/2024	8:05:59 AM	0.9	0.000	0.36	13.90	0.14	191.40
5/17/2024	8:07:02 AM	0.9	0.000	0.25	16.03	0.12	191.36
5/17/2024	8:08:05 AM	0.9	0.000	0.16	16.38	0.18	191.35
5/17/2024	8:09:08 AM	0.9	0.000	0.35	14.92	0.18	191.35
5/17/2024	8:10:11 AM	0.9	0.000	0.38	18.82	0.14	191.34
5/17/2024	8:11:14 AM	0.9	0.000	-0.01	22.06	0.23	191.34
5/17/2024	8:12:17 AM	0.9	0.000	0.23	14.18	0.15	191.33
5/17/2024	8:13:19 AM	0.9	0.000	0.15	20.82	0.09	191.33
5/17/2024	8:14:22 AM	0.9	0.000	0.40	18.51	0.30	191.35
5/17/2024	8:15:25 AM	0.9	0.000	0.38	19.51	0.15	191.35
5/17/2024	8:16:28 AM	0.9	0.000	0.33	18.00	0.25	191.35
5/17/2024	8:17:31 AM	0.9	0.000	0.46	19.98	0.31	191.34
5/17/2024	8:18:34 AM	0.9	0.000	0.38	16.98	0.23	191.36
5/17/2024	8:19:37 AM	0.9	0.000	0.14	20.17	0.30	191.35
5/17/2024	8:20:40 AM	0.9	0.000	-0.06	23.76	0.32	191.35
5/17/2024	8:21:42 AM	0.9	0.000	0.30	14.19	0.09	191.36
5/17/2024	8:22:45 AM	0.9	0.000	0.13	19.67	0.24	191.34
5/17/2024	8:23:48 AM	0.9	0.000	-0.18	25.08	0.15	191.34
5/17/2024	8:24:51 AM	0.9	0.000	0.08	21.34	0.23	191.31
5/17/2024	8:25:54 AM	0.9	0.000	0.15	20.27	0.26	191.34
5/17/2024	8:26:57 AM	0.9	0.000	0.19	19.24	0.25	191.35
5/17/2024	8:28:00 AM	0.9	0.000	0.44	19.93	0.19	191.36
5/17/2024	8:29:03 AM	0.9	0.000	0.20	19.36	0.25	191.35
5/17/2024	8:30:05 AM	0.9	0.000	-0.25	25.36	0.28	191.27
5/17/2024	8:31:08 AM	0.9	0.000	0.06	21.71	0.20	191.28
5/17/2024	8:32:11 AM	0.9	0.000	0.34	17.04	0.19	191.30
5/17/2024	8:33:14 AM	0.9	0.000	0.47	18.84	0.12	191.34
5/17/2024	8:34:17 AM	0.9	0.000	0.46	17.53	0.23	191.36
5/17/2024	8:35:20 AM	0.9	0.000	0.21	19.69	0.24	191.36
5/17/2024	8:36:23 AM	0.9	0.000	0.43	17.58	0.21	191.34
5/17/2024	8:37:26 AM	0.9	0.000	0.35	15.99	0.19	191.37
5/17/2024	8:38:29 AM	0.9	0.000	0.03	22.36	0.28	191.37
5/17/2024	8:39:31 AM	0.9	0.000	0.13	14.35	0.26	191.36
5/17/2024	8:40:34 AM	0.9	0.000	0.17	23.25	0.37	191.35
5/17/2024	8:41:37 AM	0.9	0.000	0.03	22.54	0.31	191.34
5/17/2024	8:42:40 AM	0.9	0.000	0.15	14.49	0.20	191.34
5/17/2024	8:43:43 AM	0.9	0.000	-0.08	24.41	0.22	191.35
5/17/2024	8:44:46 AM	0.9	0.000	0.24	15.58	0.15	191.34
5/17/2024	8:45:49 AM	0.9	0.000	0.00	22.52	0.45	191.31
5/17/2024	8:46:52 AM	0.9	0.000	0.08	21.33	0.26	191.34
5/17/2024	8:47:54 AM	0.9	0.000	0.46	17.82	0.24	191.34
5/17/2024	8:48:57 AM	0.9	0.000	0.33	19.89	0.21	191.35
5/17/2024	8:50:00 AM	0.9	0.000	0.13	21.32	0.11	191.34
5/17/2024	8:51:03 AM	0.9	0.000	0.24	13.36	0.19	191.35
5/17/2024	8:52:06 AM	0.9	0.000	0.22	20.11	0.23	191.37
5/17/2024	8:53:09 AM	0.9	0.000	0.02	23.38	0.21	191.35
5/17/2024	8:54:12 AM	0.9	0.000	0.00	23.31	0.25	191.32
5/17/2024	8:55:15 AM	0.9	0.000	0.33	18.15	0.31	191.35
5/17/2024	8:56:17 AM	0.9	0.000	-0.09	23.91	0.20	191.32
5/17/2024	8:57:20 AM	0.9	0.000	0.20	20.36	0.31	191.32
5/17/2024	8:58:23 AM	0.9	0.000	0.31	17.83	0.23	191.35
5/17/2024	8:59:26 AM	0.9	0.000	0.35	16.44	0.32	191.35
5/17/2024	9:00:29 AM	0.9	0.000	0.25	19.80	0.29	191.36
5/17/2024	9:01:32 AM	0.9	0.000	0.21	14.99	0.16	191.37
5/17/2024	9:02:35 AM	0.9	0.000	-0.01	23.26	0.32	191.36
5/17/2024	9:03:38 AM	0.9	0.000	0.09	20.74	0.25	191.35
5/17/2024	9:04:40 AM	0.9	0.000	0.43	17.60	0.19	191.35
5/17/2024	9:05:43 AM	0.9	0.000	0.04	19.26	0.10	191.35
5/17/2024	9:06:46 AM	0.9	0.000	-0.10	12.16	0.02	191.36
5/17/2024	9:07:49 AM	0.9	0.000	0.09	6.87	0.07	191.39

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/17/2024	9:08:52 AM	0.9	0.000	0.03	3.31	-0.06	191.40
5/17/2024	9:09:55 AM	0.9	0.000	0.05	2.75	0.00	191.39
5/17/2024	9:10:58 AM	0.9	0.000	0.09	2.64	0.03	191.41
5/17/2024	9:12:01 AM	0.9	0.000	0.04	2.59	0.08	191.42
5/17/2024	9:13:04 AM	0.9	0.000	0.03	2.56	0.00	191.41
5/17/2024	9:14:06 AM	0.9	0.000	0.24	8.84	-0.02	191.39
5/17/2024	9:15:09 AM	0.9	0.000	0.02	4.73	0.08	191.39
5/17/2024	9:16:12 AM	0.9	0.000	0.15	3.30	0.12	191.40
5/17/2024	9:17:15 AM	0.9	0.000	0.16	2.89	0.13	191.40
5/17/2024	9:18:18 AM	0.9	0.000	0.22	2.61	0.10	191.41
5/17/2024	9:19:21 AM	0.9	0.000	0.23	16.41	0.11	191.38
5/17/2024	9:20:24 AM	0.9	0.000	0.25	14.37	0.15	191.36
5/17/2024	9:21:27 AM	0.9	0.000	0.38	16.39	0.23	191.36
5/17/2024	9:22:29 AM	0.9	0.000	0.32	15.82	0.25	191.33
5/17/2024	9:23:32 AM	0.9	0.000	0.31	18.15	0.31	191.34
5/17/2024	9:24:35 AM	0.9	0.000	0.50	17.10	0.40	191.33
5/17/2024	9:25:38 AM	0.9	0.000	0.45	16.39	0.24	191.34
5/17/2024	9:26:41 AM	0.9	0.000	0.33	16.85	0.25	191.35
5/17/2024	9:27:44 AM	0.9	0.000	0.13	22.19	0.17	191.34
5/17/2024	9:28:47 AM	0.9	0.000	0.48	18.78	0.22	191.33
5/17/2024	9:29:50 AM	0.9	0.000	0.45	20.71	0.07	191.33
5/17/2024	9:30:52 AM	0.9	0.000	0.37	17.65	0.20	191.33
5/17/2024	9:31:55 AM	0.9	0.000	0.12	20.07	0.23	191.33
5/17/2024	9:32:58 AM	0.9	0.000	0.33	17.88	0.28	191.34
5/17/2024	9:34:01 AM	0.9	0.000	0.35	18.03	0.21	191.35
5/17/2024	9:35:04 AM	0.9	0.000	-0.03	23.08	0.36	191.32
5/17/2024	9:36:07 AM	0.9	0.000	0.43	18.01	0.23	191.32
5/17/2024	9:37:10 AM	0.9	0.000	-0.02	23.02	0.21	191.33
5/17/2024	9:38:13 AM	0.9	0.000	0.08	21.06	0.19	191.28
5/17/2024	9:39:15 AM	0.9	0.000	0.36	18.92	0.26	191.33
5/17/2024	9:40:18 AM	0.9	0.000	0.02	23.00	0.35	191.32
5/17/2024	9:41:21 AM	0.9	0.000	0.36	17.01	0.21	191.33
5/17/2024	9:42:24 AM	0.9	0.000	0.29	16.19	0.17	191.34
5/17/2024	9:43:27 AM	0.9	0.000	-0.35	27.83	0.29	191.28
5/17/2024	9:44:30 AM	0.9	0.000	0.33	16.25	0.08	191.28
5/17/2024	9:45:33 AM	0.9	0.000	0.48	18.21	0.20	191.33
5/17/2024	9:46:36 AM	0.9	0.000	0.18	21.82	0.24	191.35
5/17/2024	9:47:39 AM	0.9	0.000	0.40	17.53	0.28	191.35
5/17/2024	9:48:41 AM	0.9	0.000	0.63	16.03	0.06	191.35
5/17/2024	9:49:44 AM	0.9	0.000	0.55	19.15	0.13	191.34
5/17/2024	9:50:47 AM	0.9	0.000	0.65	20.15	0.19	191.33
5/17/2024	9:51:50 AM	0.9	0.000	0.30	15.79	0.11	191.33
5/17/2024	9:52:53 AM	0.9	0.000	0.27	17.08	0.06	191.36
5/17/2024	9:53:56 AM	0.9	0.000	0.09	21.62	0.36	191.34
5/17/2024	9:54:59 AM	0.9	0.000	0.11	22.41	0.34	191.33
5/17/2024	9:56:02 AM	0.9	0.000	0.22	16.15	0.22	191.37
5/17/2024	9:57:04 AM	0.9	0.000	-0.21	26.15	0.32	191.33
5/17/2024	9:58:07 AM	0.9	0.000	0.34	15.53	0.20	191.34
5/17/2024	9:59:10 AM	0.9	0.000	0.15	20.90	0.38	191.36
5/17/2024	10:00:13 AM	0.9	0.000	0.19	19.62	0.29	191.35
5/17/2024	10:01:16 AM	0.9	0.000	0.33	17.16	0.22	191.35
5/17/2024	10:02:19 AM	0.9	0.000	0.29	20.07	0.25	191.35
5/17/2024	10:03:22 AM	0.9	0.000	0.06	21.34	0.26	191.34
5/17/2024	10:04:25 AM	0.9	0.000	0.36	15.87	0.09	191.36
5/17/2024	10:05:27 AM	0.9	0.000	0.45	19.03	0.17	191.34
5/17/2024	10:06:30 AM	0.9	0.000	0.44	20.55	0.15	191.33
5/17/2024	10:07:33 AM	0.9	0.000	0.21	19.69	0.28	191.35
5/17/2024	10:08:36 AM	0.9	0.000	0.30	18.90	0.28	191.35
5/17/2024	10:09:39 AM	0.9	0.000	0.41	19.18	0.17	191.34
5/17/2024	10:10:42 AM	0.9	0.000	0.07	21.35	0.31	191.35
5/17/2024	10:11:45 AM	0.9	0.000	0.41	19.08	0.20	191.35
5/17/2024	10:12:48 AM	0.9	0.000	0.06	21.14	0.25	191.35
5/17/2024	10:13:50 AM	0.9	0.000	0.44	19.16	0.17	191.36
5/17/2024	10:14:53 AM	0.9	0.000	0.22	15.60	0.17	191.35

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/17/2024	10:15:56 AM	0.9	0.000	0.13	23.63	0.72	191.38
5/17/2024	10:16:59 AM	0.9	0.000	0.29	14.31	0.24	191.33
5/17/2024	10:18:02 AM	0.9	0.000	-0.11	26.63	0.12	191.35
5/17/2024	10:19:05 AM	0.9	0.000	0.01	12.77	0.18	191.36
5/17/2024	10:20:08 AM	0.9	0.000	0.36	17.53	0.16	191.37
5/17/2024	10:21:11 AM	0.9	0.000	0.19	18.85	0.04	191.39
5/17/2024	10:22:13 AM	0.9	0.000	0.31	10.22	-0.05	191.42
5/17/2024	10:23:16 AM	0.9	0.000	0.03	4.48	0.05	191.44
5/17/2024	10:24:19 AM	0.9	0.000	0.06	3.11	0.03	191.48
5/17/2024	10:25:22 AM	0.9	0.000	0.10	2.90	-0.01	191.48
5/17/2024	10:26:25 AM	0.9	0.000	0.03	2.84	-0.04	191.49
5/17/2024	10:27:28 AM	0.9	0.000	0.26	2.79	0.14	191.47
5/17/2024	10:28:31 AM	0.9	0.000	0.19	2.76	0.08	191.45
5/17/2024	10:29:34 AM	0.9	0.000	-0.32	11.83	-0.40	191.40
5/17/2024	10:30:37 AM	0.9	0.000	0.26	15.03	0.27	191.34
5/17/2024	10:31:39 AM	0.9	0.000	0.23	16.88	0.22	191.36
5/17/2024	10:32:42 AM	0.9	0.000	0.46	17.97	0.18	191.37
5/17/2024	10:33:45 AM	0.9	0.000	0.26	14.34	0.21	191.40
5/17/2024	10:34:48 AM	0.9	0.000	0.51	18.43	0.20	191.39
5/17/2024	10:35:51 AM	0.9	0.000	0.40	16.72	0.23	191.38
5/17/2024	10:36:54 AM	0.9	0.000	0.19	19.86	0.16	191.38
5/17/2024	10:37:57 AM	0.9	0.000	0.24	19.66	0.18	191.36
5/17/2024	10:38:59 AM	0.9	0.000	0.59	16.51	0.08	191.33
5/17/2024	10:40:02 AM	0.9	0.000	0.40	18.78	0.19	191.35
5/17/2024	10:41:05 AM	0.9	0.000	0.53	19.72	0.15	191.36
5/17/2024	10:42:08 AM	0.9	0.000	0.31	13.92	0.40	191.36
5/17/2024	10:43:11 AM	0.9	0.000	0.20	20.78	0.19	191.37
5/17/2024	10:44:14 AM	0.9	0.000	-0.06	23.22	0.24	191.35
5/17/2024	10:45:17 AM	0.9	0.000	0.34	17.00	0.22	191.38
5/17/2024	10:46:20 AM	0.9	0.000	0.23	20.63	0.30	191.37
5/17/2024	10:47:22 AM	0.9	0.000	0.11	21.26	0.29	191.35
5/17/2024	10:48:25 AM	0.9	0.000	-0.07	23.61	0.21	191.34
5/17/2024	10:49:28 AM	0.9	0.000	0.23	14.90	0.14	191.35
5/17/2024	10:50:31 AM	0.9	0.000	0.26	20.25	0.12	191.34
5/17/2024	10:51:34 AM	0.9	0.000	0.24	20.21	0.23	191.34
5/17/2024	10:52:37 AM	0.9	0.000	0.25	14.45	0.19	191.36
5/17/2024	10:53:40 AM	0.9	0.000	0.08	22.39	0.16	191.35
5/17/2024	10:54:43 AM	0.9	0.000	0.52	17.86	0.23	191.35
5/17/2024	10:55:46 AM	0.9	0.000	0.61	17.98	0.20	191.36
5/17/2024	10:56:48 AM	0.9	0.000	0.63	19.93	0.22	191.37
5/17/2024	10:57:51 AM	0.9	0.000	0.41	16.75	0.14	191.36
5/17/2024	10:58:54 AM	0.9	0.000	0.25	19.55	0.32	191.36
5/17/2024	10:59:57 AM	0.9	0.000	-0.07	24.03	0.33	191.37
5/17/2024	11:01:00 AM	0.9	0.000	0.40	17.59	-0.06	191.38
5/17/2024	11:02:03 AM	0.9	0.000	0.14	21.58	0.34	191.36
5/17/2024	11:03:06 AM	0.9	0.000	0.36	18.89	0.25	191.38
5/17/2024	11:04:09 AM	0.9	0.000	0.02	22.03	0.33	191.38
5/17/2024	11:05:11 AM	0.9	0.000	0.46	16.52	0.15	191.38
5/17/2024	11:06:14 AM	0.9	0.000	0.41	18.58	0.13	191.39
5/17/2024	11:07:17 AM	0.9	0.000	-0.03	23.30	0.29	191.39
5/17/2024	11:08:20 AM	0.9	0.000	0.38	7.97	0.25	191.41
5/17/2024	11:09:23 AM	0.9	0.000	0.01	22.56	0.41	191.38
5/17/2024	11:10:26 AM	0.9	0.000	0.12	20.33	0.28	191.35
5/17/2024	11:11:29 AM	0.9	0.000	0.16	20.84	0.29	191.35
5/17/2024	11:12:32 AM	0.9	0.000	0.37	18.20	0.30	191.35
5/17/2024	11:13:34 AM	0.9	0.000	-0.01	20.39	-0.06	191.36
5/17/2024	11:14:37 AM	0.9	0.000	0.19	14.70	-0.03	191.35
5/17/2024	11:15:40 AM	0.9	0.000	-0.08	11.85	-0.02	191.38
5/17/2024	11:16:43 AM	0.9	0.000	0.16	5.46	0.05	191.42
5/17/2024	11:17:46 AM	0.9	0.000	0.06	3.62	0.05	191.51
5/17/2024	11:18:49 AM	0.9	0.000	0.06	3.01	-0.01	191.50
5/17/2024	11:19:52 AM	1.0	0.000	-0.12	1.38	46.60	191.58
5/17/2024	11:20:55 AM	1.0	0.000	0.05	0.01	99.00	191.62
5/17/2024	11:21:57 AM	1.0	0.000	0.03	-0.01	99.34	191.68

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/17/2024	11:23:00 AM	1.0	0.000	0.06	-0.01	98.83	191.66
5/17/2024	11:24:03 AM	1.0	0.000	0.00	0.02	45.73	191.69
5/17/2024	11:25:06 AM	1.0	0.000	-0.01	0.00	0.05	191.73
5/17/2024	11:26:09 AM	1.0	0.000	-0.08	-0.01	0.03	191.76
5/17/2024	11:27:12 AM	1.0	0.000	0.02	0.00	-0.04	191.75
5/17/2024	11:28:15 AM	1.0	0.000	-0.02	-0.01	-0.03	191.79
5/17/2024	11:29:18 AM	1.0	0.000	0.05	0.00	-0.04	191.78
5/17/2024	11:30:20 AM	1.0	0.000	0.00	-0.01	-0.01	191.80
5/17/2024	11:32:35 AM	1.0	0.000	0.00	0.00	0.00	191.78
5/17/2024	11:33:44 AM	1.0	0.000	0.00	0.00	-0.01	191.78
5/17/2024	11:34:47 AM	0.9	0.000	-0.11	1.29	0.18	191.72
5/17/2024	11:35:50 AM	0.9	0.000	0.28	6.95	0.24	191.54
5/17/2024	11:36:53 AM	0.9	0.000	0.26	16.06	0.27	191.36
5/17/2024	11:37:55 AM	0.9	0.000	0.16	14.54	0.28	191.26
5/17/2024	11:38:58 AM	0.9	0.000	0.30	17.90	0.27	191.30
5/17/2024	11:40:01 AM	0.9	0.000	0.10	15.41	0.22	191.32
5/17/2024	11:41:04 AM	0.9	0.000	0.11	19.17	0.30	191.33
5/17/2024	11:42:07 AM	0.9	0.000	0.33	20.10	0.31	191.32
5/17/2024	11:43:10 AM	0.9	0.000	0.28	16.30	0.32	191.33
5/17/2024	11:44:13 AM	0.9	0.000	-0.02	22.20	0.22	191.33
5/17/2024	11:45:16 AM	0.9	0.000	0.31	17.87	0.27	191.35
5/17/2024	11:46:18 AM	0.9	0.000	0.27	19.70	0.32	191.35
5/17/2024	11:47:21 AM	0.9	0.000	0.21	18.26	0.19	191.36
5/17/2024	11:48:24 AM	0.9	0.000	0.38	19.03	0.24	191.36
5/17/2024	11:49:27 AM	0.9	0.000	0.38	20.33	0.32	191.33
5/17/2024	11:50:30 AM	0.9	0.000	0.07	22.12	0.37	191.35
5/17/2024	11:51:33 AM	0.9	0.000	0.29	17.32	0.23	191.34
5/17/2024	11:52:36 AM	0.9	0.000	0.00	21.46	0.27	191.34
5/17/2024	11:53:39 AM	0.9	0.000	0.14	19.61	0.16	191.35
5/17/2024	11:54:41 AM	0.9	0.000	0.08	20.62	0.30	191.33
5/17/2024	11:55:44 AM	0.9	0.000	0.05	22.21	0.25	191.34
5/17/2024	11:56:47 AM	0.9	0.000	0.14	19.70	0.25	191.35
5/17/2024	11:57:50 AM	0.9	0.000	0.10	20.91	0.38	191.36
5/17/2024	11:58:53 AM	0.9	0.000	0.29	16.26	0.20	191.36
5/17/2024	11:59:56 AM	0.9	0.000	0.16	21.94	0.30	191.37
5/17/2024	12:00:59 PM	0.9	0.000	0.31	18.00	0.28	191.36
5/17/2024	12:02:02 PM	0.9	0.000	0.33	20.19	0.16	191.35
5/17/2024	12:03:04 PM	0.9	0.000	0.04	23.10	0.21	191.35
5/17/2024	12:04:07 PM	0.9	0.000	0.17	19.65	0.14	191.34
5/17/2024	12:05:10 PM	0.9	0.000	0.00	21.92	0.25	191.35
5/17/2024	12:06:13 PM	0.9	0.000	0.50	17.73	0.16	191.35
5/17/2024	12:07:16 PM	0.9	0.000	0.31	18.73	0.28	191.37
5/17/2024	12:08:19 PM	0.9	0.000	0.00	21.51	0.27	191.37
5/17/2024	12:09:22 PM	0.9	0.000	0.06	20.59	0.20	191.35
5/17/2024	12:10:25 PM	0.9	0.000	0.12	20.29	0.27	191.36
5/17/2024	12:11:28 PM	0.9	0.000	0.23	19.23	0.33	191.37
5/17/2024	12:12:30 PM	0.9	0.000	0.43	17.61	0.20	191.35
5/17/2024	12:13:33 PM	0.9	0.000	0.29	19.63	0.03	191.35
5/17/2024	12:14:36 PM	0.9	0.000	0.29	18.87	0.23	191.38
5/17/2024	12:15:39 PM	0.9	0.000	0.12	21.16	0.23	191.37
5/17/2024	12:16:42 PM	0.9	0.000	0.28	19.12	0.17	191.35
5/17/2024	12:17:45 PM	0.9	0.000	0.43	18.14	0.20	191.37
5/17/2024	12:18:48 PM	0.9	0.000	0.14	21.29	0.26	191.39
5/17/2024	12:19:51 PM	0.9	0.000	0.13	15.77	0.26	191.39
5/17/2024	12:20:53 PM	0.9	0.000	-0.14	25.54	0.19	191.37
5/17/2024	12:21:56 PM	0.9	0.000	0.47	17.67	0.31	191.36
5/17/2024	12:22:59 PM	0.9	0.000	0.54	19.64	0.23	191.36
5/17/2024	12:24:02 PM	0.9	0.000	0.45	17.64	0.19	191.38
5/17/2024	12:25:05 PM	0.9	0.000	-0.07	24.22	0.28	191.38
5/17/2024	12:26:08 PM	0.9	0.000	0.27	17.72	0.34	191.37
5/17/2024	12:27:11 PM	0.9	0.000	0.35	17.16	0.25	191.39
5/17/2024	12:28:14 PM	0.9	0.000	0.57	18.71	0.15	191.39
5/17/2024	12:29:17 PM	0.9	0.000	0.59	17.60	-0.14	191.38
5/17/2024	12:30:19 PM	0.9	0.000	0.34	17.72	0.26	191.36

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/17/2024	12:31:22 PM	0.9	0.000	0.41	18.52	0.23	191.39
5/17/2024	12:32:25 PM	0.9	0.000	0.38	18.21	0.18	191.38
5/17/2024	12:33:28 PM	0.9	0.000	0.09	24.18	0.21	191.38
5/17/2024	12:34:31 PM	0.9	0.000	0.40	17.40	0.27	191.35
5/17/2024	12:35:34 PM	0.9	0.000	0.13	20.74	0.27	191.36
5/17/2024	12:36:37 PM	0.9	0.000	0.25	17.24	0.19	191.37
5/17/2024	12:37:40 PM	0.9	0.000	0.18	19.59	0.23	191.40
5/17/2024	12:38:42 PM	0.9	0.000	0.30	16.78	0.18	191.38
5/17/2024	12:39:45 PM	0.9	0.000	-0.07	23.03	0.34	191.36
5/17/2024	12:40:48 PM	0.9	0.000	0.03	22.73	0.39	191.35
5/17/2024	12:41:51 PM	0.9	0.000	0.07	14.72	0.05	191.38
5/17/2024	12:42:54 PM	0.9	0.000	-0.09	11.33	-0.04	191.39
5/17/2024	12:43:57 PM	0.9	0.000	0.14	12.60	0.00	191.37
5/17/2024	12:45:00 PM	0.9	0.000	0.29	9.95	0.12	191.38
5/17/2024	12:46:03 PM	0.9	0.000	0.04	4.18	0.01	191.41
5/17/2024	12:47:05 PM	0.9	0.000	0.07	3.13	0.07	191.43
5/17/2024	12:48:08 PM	0.9	0.000	0.21	3.82	0.16	191.46
5/17/2024	12:49:11 PM	0.9	0.000	0.16	3.29	0.19	191.46
5/17/2024	12:50:14 PM	0.9	0.000	0.42	18.70	0.29	191.41
5/17/2024	12:51:17 PM	0.9	0.000	0.30	17.69	0.19	191.36
5/17/2024	12:52:20 PM	0.9	0.000	0.30	17.39	0.31	191.38
5/17/2024	12:53:23 PM	0.9	0.000	0.33	17.54	0.26	191.38
5/17/2024	12:54:26 PM	0.9	0.000	0.14	20.41	0.34	191.37
5/17/2024	12:55:29 PM	0.9	0.000	0.31	17.55	0.22	191.38
5/17/2024	12:56:31 PM	0.9	0.000	0.18	20.43	0.22	191.37
5/17/2024	12:57:34 PM	0.9	0.000	0.05	21.47	0.37	191.33
5/17/2024	12:58:37 PM	0.9	0.000	0.28	13.72	0.17	191.33
5/17/2024	12:59:40 PM	0.9	0.000	0.03	22.94	0.16	191.33
5/17/2024	1:00:43 PM	0.9	0.000	0.43	17.55	0.25	191.35
5/17/2024	1:01:46 PM	0.9	0.000	0.10	21.31	0.16	191.33
5/17/2024	1:02:49 PM	0.9	0.000	0.20	14.71	0.12	191.34
5/17/2024	1:03:52 PM	0.9	0.000	-0.02	24.81	0.37	191.35
5/17/2024	1:04:54 PM	0.9	0.000	0.15	19.60	0.19	191.36
5/17/2024	1:05:57 PM	0.9	0.000	0.25	15.71	0.20	191.38
5/17/2024	1:07:00 PM	0.9	0.000	0.12	20.92	0.28	191.37
5/17/2024	1:08:03 PM	0.9	0.000	0.24	19.80	0.29	191.37
5/17/2024	1:09:06 PM	0.9	0.000	0.44	17.37	0.31	191.37
5/17/2024	1:10:09 PM	0.9	0.000	-0.12	23.55	0.30	191.35
5/17/2024	1:11:12 PM	0.9	0.000	0.10	15.95	0.20	191.35
5/17/2024	1:12:15 PM	0.9	0.000	0.04	20.96	0.23	191.35
5/17/2024	1:13:18 PM	0.9	0.000	0.45	19.30	0.18	191.34
5/17/2024	1:14:20 PM	0.9	0.000	0.17	20.56	0.36	191.35
5/17/2024	1:15:23 PM	0.9	0.000	0.38	17.40	0.14	191.36
5/17/2024	1:16:26 PM	0.9	0.000	-0.01	22.59	0.25	191.37
5/17/2024	1:17:29 PM	0.9	0.000	0.10	21.13	0.18	191.35
5/17/2024	1:18:32 PM	0.9	0.000	0.23	19.71	0.34	191.35
5/17/2024	1:19:35 PM	0.9	0.000	0.49	17.40	0.28	191.35
5/17/2024	1:20:38 PM	0.9	0.000	0.15	19.16	0.13	191.35
5/17/2024	1:21:41 PM	0.9	0.000	0.11	20.83	0.21	191.36
5/17/2024	1:22:43 PM	0.9	0.000	0.32	16.95	0.24	191.37
5/17/2024	1:23:46 PM	0.9	0.000	0.04	23.28	0.36	191.38
5/17/2024	1:24:49 PM	0.9	0.000	0.34	18.14	0.28	191.37
5/17/2024	1:25:52 PM	0.9	0.000	0.47	18.25	0.20	191.39
5/17/2024	1:26:55 PM	0.9	0.000	0.09	21.09	0.22	191.36
5/17/2024	1:27:58 PM	0.9	0.000	0.15	21.58	0.27	191.37
5/17/2024	1:29:01 PM	0.9	0.000	0.20	19.97	0.13	191.36
5/17/2024	1:30:04 PM	0.9	0.000	-0.15	25.68	0.23	191.32
5/17/2024	1:31:07 PM	0.9	0.000	0.48	18.15	0.14	191.35
5/17/2024	1:32:09 PM	0.9	0.000	0.40	16.73	0.17	191.36
5/17/2024	1:33:12 PM	0.9	0.000	0.47	16.72	0.32	191.37
5/17/2024	1:34:15 PM	0.9	0.000	0.44	17.70	0.09	191.37
5/17/2024	1:35:18 PM	0.9	0.000	0.54	17.85	0.18	191.36
5/17/2024	1:36:21 PM	0.9	0.000	0.39	18.13	0.20	191.36
5/17/2024	1:37:24 PM	0.9	0.000	0.08	21.56	0.32	191.36



BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/17/2024	1:38:27 PM	0.9	0.000	0.32	18.56	0.22	191.37
5/17/2024	1:39:30 PM	0.9	0.000	0.11	14.24	0.28	191.39
5/17/2024	1:40:32 PM	0.9	0.000	0.47	18.33	0.17	191.36
5/17/2024	1:41:35 PM	0.9	0.000	0.06	21.41	0.20	191.38
5/17/2024	1:42:38 PM	0.9	0.000	0.04	21.54	0.17	191.36
5/17/2024	1:43:41 PM	0.9	0.000	0.20	20.85	0.15	191.34
5/17/2024	1:44:44 PM	0.9	0.000	0.10	20.48	0.22	191.32
5/17/2024	1:45:47 PM	0.9	0.000	0.48	17.26	0.16	191.37
5/17/2024	1:46:50 PM	0.9	0.000	0.49	15.75	0.08	191.44
5/17/2024	1:47:53 PM	0.9	0.000	0.41	17.69	0.15	191.41
5/17/2024	1:48:55 PM	0.9	0.000	-0.06	25.21	0.19	191.34
5/17/2024	1:49:58 PM	0.9	0.000	0.43	16.36	0.20	191.34
5/17/2024	1:51:01 PM	0.9	0.000	-0.04	21.70	0.15	191.35
5/17/2024	1:52:04 PM	0.9	0.000	0.00	14.80	-0.04	191.37
5/17/2024	1:53:07 PM	0.9	0.000	0.03	5.03	0.05	191.43
5/17/2024	1:54:10 PM	0.9	0.000	0.14	7.44	0.11	191.48
5/17/2024	1:55:13 PM	0.9	0.000	0.04	4.24	0.01	191.46
5/17/2024	1:56:16 PM	0.9	0.000	0.27	3.32	0.16	191.48
5/17/2024	1:57:19 PM	0.9	0.000	0.32	4.53	0.00	191.50
5/17/2024	1:58:21 PM	0.9	0.000	-0.03	22.94	0.27	191.37
5/17/2024	1:59:24 PM	0.9	0.000	0.26	16.58	0.32	191.36
5/17/2024	2:00:27 PM	0.9	0.000	0.12	20.28	0.23	191.37
5/17/2024	2:01:30 PM	0.9	0.000	0.24	17.90	0.26	191.38
5/17/2024	2:02:33 PM	0.9	0.000	0.46	16.53	0.10	191.38
5/17/2024	2:03:36 PM	0.9	0.000	0.27	17.21	0.25	191.38
5/17/2024	2:04:39 PM	0.9	0.000	0.23	19.54	0.14	191.36
5/17/2024	2:05:42 PM	0.9	0.000	0.26	18.29	0.17	191.36
5/17/2024	2:06:44 PM	0.9	0.000	0.01	21.42	0.29	191.31
5/17/2024	2:07:47 PM	0.9	0.000	0.40	17.89	0.27	191.34
5/17/2024	2:08:50 PM	0.9	0.000	0.38	19.31	0.31	191.35
5/17/2024	2:09:53 PM	0.9	0.000	0.23	19.00	0.19	191.36
5/17/2024	2:10:56 PM	0.9	0.000	0.56	18.21	0.19	191.36
5/17/2024	2:11:59 PM	0.9	0.000	0.02	22.17	0.21	191.37
5/17/2024	2:13:02 PM	0.9	0.000	0.18	16.29	0.09	191.37
5/17/2024	2:14:05 PM	0.9	0.000	0.32	18.77	0.23	191.38
5/17/2024	2:15:08 PM	0.9	0.000	0.57	18.24	0.11	191.36
5/17/2024	2:16:10 PM	0.9	0.000	0.38	19.70	0.29	191.35
5/17/2024	2:17:13 PM	0.9	0.000	0.11	22.72	0.24	191.38
5/17/2024	2:18:16 PM	0.9	0.000	0.29	18.03	0.27	191.39
5/17/2024	2:19:19 PM	0.9	0.000	0.36	18.82	0.24	191.39
5/17/2024	2:20:22 PM	0.9	0.000	0.14	22.88	0.20	191.38
5/17/2024	2:21:25 PM	0.9	0.000	0.15	19.47	0.27	191.35
5/17/2024	2:22:28 PM	0.9	0.000	0.13	15.97	0.19	191.36
5/17/2024	2:23:31 PM	0.9	0.000	0.04	22.38	0.29	191.36
5/17/2024	2:24:33 PM	0.9	0.000	-0.02	23.40	0.33	191.35
5/17/2024	2:25:36 PM	0.9	0.000	0.06	20.77	0.24	191.35
5/17/2024	2:26:39 PM	0.9	0.000	0.39	18.72	0.39	191.34
5/17/2024	2:27:42 PM	0.9	0.000	0.60	20.12	0.14	191.36
5/17/2024	2:28:45 PM	0.9	0.000	0.35	16.51	0.21	191.35
5/17/2024	2:29:48 PM	0.9	0.000	0.11	22.47	0.42	191.37
5/17/2024	2:30:51 PM	0.9	0.000	0.29	17.12	0.22	191.36
5/17/2024	2:31:54 PM	0.9	0.000	0.20	19.41	0.23	191.36
5/17/2024	2:32:57 PM	0.9	0.000	0.29	18.51	0.18	191.37
5/17/2024	2:33:59 PM	0.9	0.000	0.03	22.68	0.23	191.37
5/17/2024	2:35:02 PM	0.9	0.000	0.13	20.73	0.19	191.34
5/17/2024	2:36:05 PM	0.9	0.000	0.41	16.95	0.24	191.36
5/17/2024	2:37:08 PM	0.9	0.000	-0.01	23.62	0.12	191.34
5/17/2024	2:38:11 PM	0.9	0.000	0.18	20.05	0.19	191.32
5/17/2024	2:39:14 PM	0.9	0.000	0.57	16.33	0.11	191.33
5/17/2024	2:40:17 PM	0.9	0.000	0.32	13.31	0.16	191.34
5/17/2024	2:41:20 PM	0.9	0.000	0.06	21.57	0.18	191.33
5/17/2024	2:42:23 PM	0.9	0.000	0.42	14.23	0.25	191.35
5/17/2024	2:43:25 PM	0.9	0.000	0.20	19.59	0.25	191.29
5/17/2024	2:44:28 PM	0.9	0.000	0.05	22.45	0.20	191.34

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/17/2024	2:45:31 PM	0.9	0.000	0.21	14.98	0.25	191.35
5/17/2024	2:46:34 PM	0.9	0.000	-0.05	23.03	0.27	191.34
5/17/2024	2:47:37 PM	0.9	0.000	0.18	14.74	0.18	191.36
5/17/2024	2:48:40 PM	0.9	0.000	0.02	21.18	0.23	191.36
5/17/2024	2:49:43 PM	0.9	0.000	0.22	14.80	0.12	191.35
5/17/2024	2:50:45 PM	0.9	0.000	-0.03	22.38	0.39	191.36
5/17/2024	2:51:48 PM	0.9	0.000	0.13	20.97	0.25	191.35
5/17/2024	2:52:51 PM	0.9	0.000	0.12	20.90	0.40	191.36
5/17/2024	2:53:54 PM	0.9	0.000	0.01	20.69	0.26	191.35
5/17/2024	2:54:57 PM	0.9	0.000	0.08	21.00	0.12	191.36
5/17/2024	2:56:00 PM	0.9	0.000	0.33	18.04	0.32	191.35
5/17/2024	2:57:03 PM	0.9	0.000	0.40	17.96	0.25	191.35
5/17/2024	2:58:06 PM	0.9	0.000	0.35	18.19	0.26	191.36
5/17/2024	2:59:09 PM	0.9	0.000	0.41	20.48	0.24	191.37
5/17/2024	3:00:12 PM	0.9	0.000	0.26	19.40	0.29	191.35
5/17/2024	3:01:14 PM	0.9	0.000	0.19	17.75	0.17	191.33
5/17/2024	3:02:17 PM	0.9	0.000	0.31	18.74	0.27	191.35
5/17/2024	3:03:20 PM	0.9	0.000	0.38	18.05	0.25	191.35
5/17/2024	3:04:23 PM	0.9	0.000	0.63	20.62	0.11	191.36
5/17/2024	3:05:26 PM	0.9	0.000	0.33	14.86	0.00	191.34
5/17/2024	3:06:29 PM	0.9	0.000	0.56	18.37	0.20	191.30
5/17/2024	3:07:32 PM	0.9	0.000	-0.07	22.49	0.16	191.34
5/17/2024	3:08:34 PM	0.9	0.000	0.22	19.99	0.26	191.36
5/17/2024	3:09:37 PM	0.9	0.000	0.28	16.87	0.20	191.35
5/17/2024	3:10:41 PM	0.9	0.000	0.09	20.82	0.10	191.37
5/17/2024	3:11:43 PM	0.9	0.000	0.07	15.78	0.20	191.37
5/17/2024	3:12:46 PM	0.9	0.000	0.09	21.25	0.03	191.36
5/17/2024	3:13:49 PM	0.9	0.000	0.26	8.95	0.20	191.38
5/17/2024	3:14:52 PM	0.9	0.000	0.10	5.83	0.13	191.40
5/17/2024	3:15:55 PM	0.9	0.000	0.05	3.40	0.09	191.40
5/17/2024	3:16:58 PM	0.9	0.000	0.01	3.05	0.08	191.42
5/17/2024	3:18:00 PM	0.9	0.000	0.02	5.41	0.10	191.43
5/17/2024	3:19:03 PM	0.9	0.000	-0.08	5.27	0.08	191.43
5/17/2024	3:20:06 PM	0.9	0.000	-0.05	3.17	0.08	191.43
5/17/2024	3:21:09 PM	0.9	0.000	0.13	2.98	0.15	191.43
5/17/2024	3:22:12 PM	0.9	0.000	0.21	4.06	0.12	191.41
5/17/2024	3:23:15 PM	0.9	0.000	0.22	5.07	0.19	191.44
5/17/2024	3:24:18 PM	0.9	0.000	0.16	15.26	0.21	191.40
5/17/2024	3:25:21 PM	0.9	0.000	0.17	14.49	0.23	191.38
5/17/2024	3:26:23 PM	0.9	0.000	0.23	14.97	0.23	191.38
5/17/2024	3:27:26 PM	0.9	0.000	0.17	20.29	0.20	191.36
5/17/2024	3:28:29 PM	0.9	0.000	0.20	14.49	0.21	191.37
5/17/2024	3:29:32 PM	0.9	0.000	0.01	22.77	0.31	191.36
5/17/2024	3:30:35 PM	0.9	0.000	0.15	16.29	0.27	191.37
5/17/2024	3:31:38 PM	0.9	0.000	0.13	20.75	0.12	191.36
5/17/2024	3:32:41 PM	0.9	0.000	0.20	16.07	0.19	191.36
5/17/2024	3:33:44 PM	0.9	0.000	-0.01	22.43	0.38	191.37
5/17/2024	3:34:46 PM	0.9	0.000	0.26	14.86	0.22	191.37
5/17/2024	3:35:49 PM	0.9	0.000	0.26	16.16	0.18	191.39
5/17/2024	3:36:52 PM	0.9	0.000	0.61	18.09	0.27	191.39
5/17/2024	3:37:55 PM	0.9	0.000	-0.03	23.50	0.47	191.36
5/17/2024	3:38:58 PM	0.9	0.000	0.51	16.71	0.12	191.37
5/17/2024	3:40:01 PM	0.9	0.000	0.41	17.82	0.41	191.35
5/17/2024	3:41:04 PM	0.9	0.000	0.92	16.80	-0.16	191.37
5/17/2024	3:42:07 PM	0.9	0.000	0.38	16.21	0.21	191.33
5/17/2024	3:43:10 PM	0.9	0.000	0.16	20.14	0.28	191.35
5/17/2024	3:44:12 PM	0.9	0.000	-0.14	28.51	0.37	191.32
5/17/2024	3:45:15 PM	0.9	0.000	0.38	17.76	0.09	191.27
5/17/2024	3:46:18 PM	0.9	0.000	-0.03	19.84	0.09	191.31
5/17/2024	3:47:21 PM	0.9	0.000	0.05	14.21	-0.01	191.34
5/17/2024	3:48:24 PM	0.9	0.000	0.23	8.98	0.18	191.38
5/17/2024	3:49:27 PM	0.9	0.000	0.13	7.00	0.11	191.39
5/17/2024	3:50:30 PM	0.9	0.000	0.08	3.55	0.03	191.43
5/17/2024	3:51:33 PM	1.0	0.000	-0.13	1.67	47.32	191.50

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/17/2024	3:52:35 PM	1.0	0.000	-0.21	0.21	98.70	191.60
5/17/2024	3:53:38 PM	1.0	0.000	-0.06	0.00	98.72	191.69
5/17/2024	3:54:41 PM	1.0	0.000	0.01	0.00	98.62	191.75
5/17/2024	3:55:44 PM	1.0	0.000	0.00	0.00	99.14	191.74
5/17/2024	3:56:47 PM	1.0	0.000	-0.09	0.02	11.43	191.74
5/17/2024	3:57:50 PM	1.0	0.000	0.00	0.01	0.04	191.75
5/17/2024	3:58:53 PM	1.0	0.000	-0.06	0.01	0.08	191.74
5/17/2024	4:01:21 PM	1.0	0.000	0.00	0.00	0.00	191.75
5/17/2024	4:02:30 PM	1.0	0.000	-0.12	0.00	-0.06	191.75
5/20/2024	9:13:17 AM	1.0	0.000	-0.18	0.03	-0.04	191.54
5/20/2024	9:14:20 AM	1.0	0.000	-0.32	0.03	-0.07	191.51
5/20/2024	9:15:23 AM	1.0	0.000	-0.25	0.03	-0.05	191.43
5/20/2024	9:16:26 AM	1.0	0.000	-0.27	0.03	-0.02	191.48
5/20/2024	9:17:29 AM	1.0	0.000	-0.19	0.03	-0.04	191.50
5/20/2024	9:18:32 AM	1.0	0.000	-0.23	0.02	0.06	191.50
5/20/2024	9:20:53 AM	1.0	0.000	0.00	0.00	0.00	191.51
5/20/2024	9:22:02 AM	1.0	0.000	0.01	0.00	-0.02	191.52
5/20/2024	9:23:05 AM	1.0	0.000	0.01	0.03	27.11	191.53
5/20/2024	9:24:08 AM	1.0	0.000	-0.05	-0.01	98.63	191.58
5/20/2024	9:25:11 AM	1.0	0.000	0.06	-0.01	98.81	191.62
5/20/2024	9:26:14 AM	1.0	0.000	-0.01	-0.01	98.75	191.66
5/20/2024	9:27:17 AM	1.0	0.000	-0.04	-0.02	98.59	191.73
5/20/2024	9:28:20 AM	1.0	0.000	0.00	0.00	14.68	191.71
5/20/2024	9:29:22 AM	1.0	0.000	0.03	0.00	-0.04	191.64
5/20/2024	9:30:25 AM	1.0	0.000	0.01	0.00	-0.13	191.64
5/20/2024	9:31:28 AM	1.0	0.000	0.01	0.00	-0.02	191.59
5/20/2024	9:32:31 AM	1.0	0.000	-0.02	-0.01	-0.09	191.57
5/20/2024	9:33:34 AM	1.0	0.000	0.05	0.00	-0.06	191.58
5/20/2024	9:34:37 AM	1.0	0.000	3.14	0.01	0.55	191.60
5/20/2024	9:35:40 AM	1.0	0.000	84.86	0.01	-0.86	191.66
5/20/2024	9:36:42 AM	1.0	0.000	86.55	-0.01	-0.88	191.66
5/20/2024	9:37:45 AM	1.0	0.000	86.89	-0.01	-0.95	191.71
5/20/2024	9:38:48 AM	1.0	0.000	87.35	-0.01	-0.93	191.72
5/20/2024	9:39:51 AM	1.0	0.000	87.19	-0.01	-0.91	191.72
5/20/2024	9:40:54 AM	1.0	0.000	86.81	-0.02	-0.85	191.78
5/20/2024	9:41:57 AM	1.0	0.000	87.33	-0.02	-0.75	191.74
5/20/2024	9:43:00 AM	1.0	0.000	87.52	-0.01	-0.86	191.72
5/20/2024	9:44:02 AM	1.0	0.000	87.83	-0.02	-1.02	191.75
5/20/2024	9:45:05 AM	1.0	0.000	87.89	-0.01	-0.94	191.74
5/20/2024	9:46:08 AM	1.0	0.000	87.73	-0.01	-0.81	191.71
5/20/2024	9:47:11 AM	1.0	0.000	56.22	-0.01	4.17	191.73
5/20/2024	9:48:14 AM	1.0	0.000	0.22	0.00	-0.12	191.70
5/20/2024	9:49:17 AM	1.0	0.000	0.14	0.09	-0.05	191.64
5/20/2024	9:50:20 AM	0.9	0.000	0.48	3.14	-0.02	191.45
5/20/2024	9:51:23 AM	0.9	0.000	0.65	7.53	0.26	191.34
5/20/2024	9:52:25 AM	0.9	0.000	0.46	14.43	0.12	191.28
5/20/2024	9:53:28 AM	0.9	0.000	0.38	14.72	0.13	191.15
5/20/2024	9:54:31 AM	0.9	0.000	0.68	18.45	0.08	191.10
5/20/2024	9:55:34 AM	0.9	0.000	0.44	16.83	0.23	191.19
5/20/2024	9:56:37 AM	0.9	0.000	0.39	21.80	0.18	191.20
5/20/2024	9:57:40 AM	0.9	0.000	0.46	18.35	0.18	191.14
5/20/2024	9:58:43 AM	0.9	0.000	0.57	18.68	0.19	191.22
5/20/2024	9:59:46 AM	0.9	0.000	0.69	20.39	0.20	191.23
5/20/2024	10:00:48 AM	0.9	0.000	0.49	17.96	0.25	191.19
5/20/2024	10:01:51 AM	0.9	0.000	0.46	19.14	0.25	191.28
5/20/2024	10:02:54 AM	0.9	0.000	2.70	18.31	0.20	191.30
5/20/2024	10:03:57 AM	0.9	0.000	5.17	21.54	0.07	191.32
5/20/2024	10:05:00 AM	0.9	0.000	5.64	17.61	0.18	191.34
5/20/2024	10:06:03 AM	0.9	0.000	5.76	15.13	0.08	191.35
5/20/2024	10:07:06 AM	0.9	0.000	5.38	20.06	0.22	191.32
5/20/2024	10:08:09 AM	0.9	0.000	5.56	18.47	0.14	191.33
5/20/2024	10:09:11 AM	0.9	0.000	5.14	22.83	0.12	191.33
5/20/2024	10:10:14 AM	0.9	0.000	4.98	23.52	0.20	191.31

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/20/2024	10:11:17 AM	0.9	0.000	5.64	16.56	0.13	191.30
5/20/2024	10:12:20 AM	0.9	0.000	7.31	18.03	0.11	191.35
5/20/2024	10:13:23 AM	0.9	0.000	4.59	19.51	0.17	191.33
5/20/2024	10:14:26 AM	0.9	0.000	0.51	15.37	0.24	191.33
5/20/2024	10:15:29 AM	0.9	0.000	0.38	20.64	0.20	191.35
5/20/2024	10:16:32 AM	0.9	0.000	0.41	19.82	0.14	191.37
5/20/2024	10:17:35 AM	0.9	0.000	0.25	21.04	0.21	191.32
5/20/2024	10:18:37 AM	1.0	0.000	0.53	9.82	0.11	191.33
5/20/2024	10:19:40 AM	0.8	0.000	0.13	2.00	-0.12	191.37
5/20/2024	10:20:43 AM	0.8	0.000	-0.07	0.25	-0.11	191.48
5/20/2024	10:21:46 AM	1.0	0.000	-0.07	0.13	-0.06	191.54
5/20/2024	10:22:49 AM	1.0	0.000	-0.08	0.09	0.02	191.54
5/20/2024	10:25:05 AM	1.0	0.000	0.00	0.00	0.00	191.55
5/20/2024	10:26:15 AM	1.0	0.000	0.02	-0.01	0.03	191.56
5/20/2024	10:27:18 AM	1.0	0.000	0.03	-0.02	84.57	191.61
5/20/2024	10:28:20 AM	1.0	0.000	0.02	-0.03	99.28	191.65
5/20/2024	10:29:23 AM	1.0	0.000	-0.12	-0.05	99.01	191.67
5/20/2024	10:30:26 AM	1.0	0.000	0.05	-0.08	99.32	191.68
5/20/2024	10:31:29 AM	0.7	0.000	0.05	-0.12	95.52	191.72
5/20/2024	10:32:32 AM	0.5	0.000	1.16	3.93	53.42	191.78
5/20/2024	10:33:35 AM	0.9	0.000	1.34	17.02	-0.20	191.51
5/20/2024	10:34:38 AM	0.9	0.000	0.29	20.23	0.26	191.29
5/20/2024	10:35:41 AM	0.9	0.000	0.36	20.25	0.25	191.34
5/20/2024	10:36:44 AM	0.9	0.000	0.37	20.55	0.28	191.34
5/20/2024	10:37:46 AM	0.9	0.000	0.35	15.67	0.21	191.34
5/20/2024	10:38:49 AM	0.9	0.000	0.31	20.26	0.32	191.34
5/20/2024	10:39:52 AM	0.9	0.000	0.51	17.18	0.27	191.35
5/20/2024	10:40:55 AM	0.9	0.000	4.45	18.41	0.57	191.35
5/20/2024	10:41:58 AM	0.9	0.000	0.12	21.41	0.07	191.37
5/20/2024	10:43:01 AM	0.9	0.000	0.15	12.01	-0.03	191.33
5/20/2024	10:44:04 AM	0.9	0.000	0.35	6.42	0.07	191.38
5/20/2024	10:45:07 AM	0.9	0.000	0.32	6.91	0.14	191.44
5/20/2024	10:46:09 AM	0.9	0.000	0.24	5.95	0.14	191.46
5/20/2024	10:47:12 AM	0.9	0.000	0.26	5.57	0.07	191.45
5/20/2024	10:48:15 AM	0.9	0.000	0.25	5.39	0.06	191.40
5/20/2024	10:49:18 AM	0.9	0.000	0.30	5.25	0.16	191.46
5/20/2024	10:50:21 AM	0.9	0.000	0.20	5.24	0.18	191.45
5/20/2024	10:51:24 AM	0.9	0.000	0.38	5.21	0.13	191.46
5/20/2024	10:52:27 AM	0.9	0.000	0.40	5.21	0.12	191.41
5/20/2024	10:53:30 AM	0.9	0.000	0.46	5.23	0.17	191.42
5/20/2024	10:54:33 AM	0.9	0.000	0.54	6.45	0.16	191.44
5/20/2024	10:55:35 AM	0.9	0.000	0.27	20.20	0.28	191.40
5/20/2024	10:56:38 AM	0.9	0.000	0.40	17.62	0.21	191.31
5/20/2024	10:57:41 AM	0.9	0.000	0.56	16.57	0.22	191.33
5/20/2024	10:58:44 AM	0.9	0.000	0.62	17.71	0.22	191.34
5/20/2024	10:59:47 AM	0.9	0.000	0.70	17.04	0.23	191.34
5/20/2024	11:00:50 AM	0.9	0.000	0.61	17.13	0.18	191.37
5/20/2024	11:01:53 AM	0.9	0.000	0.21	22.63	0.18	191.36
5/20/2024	11:02:56 AM	0.9	0.000	0.70	18.83	0.22	191.36
5/20/2024	11:03:59 AM	0.9	0.000	0.81	19.54	0.18	191.37
5/20/2024	11:05:01 AM	0.9	0.000	0.34	19.35	0.25	191.33
5/20/2024	11:06:04 AM	0.9	0.000	0.54	17.25	0.28	191.34
5/20/2024	11:07:07 AM	0.9	0.000	0.51	16.88	0.23	191.37
5/20/2024	11:08:10 AM	0.9	0.000	0.27	21.85	0.22	191.35
5/20/2024	11:09:13 AM	0.9	0.000	0.54	14.20	0.17	191.33
5/20/2024	11:10:16 AM	0.9	0.000	0.46	19.29	0.25	191.34
5/20/2024	11:11:19 AM	0.9	0.000	0.53	15.05	0.25	191.34
5/20/2024	11:12:22 AM	0.9	0.000	0.37	19.52	0.25	191.34
5/20/2024	11:13:24 AM	0.9	0.000	0.33	21.70	0.04	191.34
5/20/2024	11:14:27 AM	0.9	0.000	0.95	18.09	0.13	191.34
5/20/2024	11:15:30 AM	0.9	0.000	0.70	14.84	0.09	191.36
5/20/2024	11:16:33 AM	0.9	0.000	0.35	20.62	0.26	191.34
5/20/2024	11:17:36 AM	0.9	0.000	0.37	20.05	0.19	191.36
5/20/2024	11:18:39 AM	0.9	0.000	0.43	20.22	0.23	191.37

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/20/2024	11:19:42 AM	0.9	0.000	0.57	20.72	0.11	191.28
5/20/2024	11:20:45 AM	0.9	0.000	0.72	16.80	0.17	191.35
5/20/2024	11:21:48 AM	0.9	0.000	0.41	20.51	0.18	191.37
5/20/2024	11:22:50 AM	0.9	0.000	0.75	18.31	0.21	191.39
5/20/2024	11:23:53 AM	0.9	0.000	0.93	17.90	-0.29	191.41
5/20/2024	11:24:56 AM	0.9	0.000	1.00	18.37	-0.01	191.38
5/20/2024	11:25:59 AM	0.9	0.000	0.61	14.62	0.13	191.38
5/20/2024	11:27:02 AM	0.9	0.000	0.57	13.09	0.14	191.37
5/20/2024	11:28:05 AM	0.9	0.000	0.32	22.93	0.05	191.32
5/20/2024	11:29:08 AM	0.9	0.000	0.14	24.24	0.33	191.33
5/20/2024	11:30:11 AM	0.9	0.000	0.55	13.56	0.21	191.36
5/20/2024	11:31:13 AM	0.9	0.000	0.50	19.30	0.24	191.36
5/20/2024	11:32:16 AM	0.9	0.000	0.48	18.39	0.13	191.39
5/20/2024	11:33:19 AM	0.9	0.000	0.36	22.41	0.21	191.38
5/20/2024	11:34:22 AM	0.9	0.000	0.70	16.67	0.10	191.39
5/20/2024	11:35:25 AM	0.9	0.000	0.86	14.36	0.08	191.40
5/20/2024	11:36:28 AM	0.9	0.000	0.46	16.45	0.20	191.40
5/20/2024	11:37:31 AM	0.9	0.000	0.23	24.83	0.06	191.39
5/20/2024	11:38:34 AM	0.9	0.000	0.34	21.95	0.24	191.34
5/20/2024	11:39:37 AM	0.9	0.000	0.48	19.42	0.16	191.37
5/20/2024	11:40:39 AM	0.9	0.000	0.50	13.71	0.18	191.39
5/20/2024	11:41:42 AM	0.9	0.000	0.74	18.38	0.27	191.39
5/20/2024	11:42:46 AM	0.9	0.000	0.06	25.36	0.23	191.39
5/20/2024	11:43:48 AM	0.9	0.000	0.31	20.53	0.27	191.35
5/20/2024	11:44:51 AM	0.9	0.000	0.85	17.54	0.06	191.38
5/20/2024	11:45:54 AM	0.9	0.000	0.28	22.83	0.27	191.35
5/20/2024	11:46:57 AM	0.9	0.000	0.45	14.88	0.20	191.35
5/20/2024	11:48:00 AM	0.9	0.000	0.48	19.92	0.24	191.38
5/20/2024	11:49:03 AM	0.9	0.000	0.20	23.40	0.13	191.37
5/20/2024	11:50:05 AM	0.9	0.000	0.77	18.47	0.26	191.35
5/20/2024	11:51:08 AM	0.9	0.000	0.88	17.77	0.25	191.38
5/20/2024	11:52:11 AM	0.9	0.000	0.88	19.96	0.09	191.36
5/20/2024	11:53:14 AM	0.9	0.000	0.43	19.99	0.29	191.36
5/20/2024	11:54:17 AM	0.9	0.000	0.38	19.74	0.28	191.37
5/20/2024	11:55:20 AM	0.9	0.000	0.47	20.58	0.10	191.40
5/20/2024	11:56:23 AM	0.9	0.000	0.43	20.37	0.20	191.38
5/20/2024	11:57:26 AM	0.9	0.000	0.60	18.93	0.13	191.37
5/20/2024	11:58:29 AM	0.9	0.000	0.71	18.85	0.21	191.29
5/20/2024	11:59:31 AM	0.9	0.000	0.31	19.25	0.05	191.35
5/20/2024	12:00:34 PM	0.9	0.000	0.48	7.93	0.13	191.40
5/20/2024	12:01:37 PM	0.9	0.000	0.50	6.56	0.16	191.45
5/20/2024	12:02:40 PM	0.9	0.000	0.32	5.66	0.08	191.44
5/20/2024	12:03:43 PM	0.9	0.000	0.23	5.25	0.04	191.45
5/20/2024	12:04:46 PM	0.9	0.000	0.35	5.09	0.08	191.45
5/20/2024	12:05:49 PM	0.9	0.000	0.46	5.08	0.13	191.48
5/20/2024	12:06:52 PM	0.9	0.000	0.07	11.92	-0.53	191.47
5/20/2024	12:07:55 PM	0.9	0.000	0.65	17.33	0.22	191.37
5/20/2024	12:08:57 PM	0.9	0.000	0.56	14.07	0.19	191.39
5/20/2024	12:10:00 PM	0.9	0.000	0.56	14.18	0.20	191.42
5/20/2024	12:11:03 PM	0.9	0.000	0.87	18.74	0.20	191.40
5/20/2024	12:12:06 PM	0.9	0.000	0.85	19.75	0.17	191.41
5/20/2024	12:13:09 PM	0.9	0.000	0.59	15.21	0.14	191.40
5/20/2024	12:14:12 PM	0.9	0.000	0.36	12.39	0.13	191.43
5/20/2024	12:15:15 PM	0.9	0.000	0.34	22.08	0.27	191.39
5/20/2024	12:16:18 PM	0.9	0.000	0.71	16.72	0.27	191.40
5/20/2024	12:17:20 PM	0.9	0.000	0.56	19.37	0.20	191.41
5/20/2024	12:18:23 PM	0.9	0.000	0.54	19.43	0.16	191.37
5/20/2024	12:19:26 PM	0.9	0.000	0.64	13.27	0.22	191.36
5/20/2024	12:20:29 PM	0.9	0.000	0.56	20.55	0.22	191.37
5/20/2024	12:21:32 PM	0.9	0.000	0.36	21.60	0.28	191.41
5/20/2024	12:22:35 PM	0.9	0.000	0.50	19.39	0.19	191.40
5/20/2024	12:23:38 PM	0.9	0.000	0.51	20.09	0.34	191.42
5/20/2024	12:24:41 PM	0.9	0.000	0.47	21.68	0.33	191.43
5/20/2024	12:25:44 PM	0.9	0.000	0.61	18.85	0.29	191.38

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/20/2024	12:26:46 PM	0.9	0.000	0.42	21.66	0.30	191.39
5/20/2024	12:27:49 PM	0.9	0.000	0.88	18.18	0.19	191.41
5/20/2024	12:28:52 PM	0.9	0.000	0.30	22.57	0.02	191.39
5/20/2024	12:29:55 PM	0.9	0.000	1.02	17.54	0.10	191.41
5/20/2024	12:30:58 PM	0.9	0.000	0.36	20.68	0.23	191.35
5/20/2024	12:32:01 PM	0.9	0.000	0.44	20.41	0.25	191.36
5/20/2024	12:33:04 PM	0.9	0.000	0.53	19.09	0.19	191.43
5/20/2024	12:34:07 PM	0.9	0.000	0.41	20.57	0.32	191.40
5/20/2024	12:35:10 PM	0.9	0.000	0.66	23.62	-0.05	191.38
5/20/2024	12:36:12 PM	0.9	0.000	0.81	17.19	0.18	191.29
5/20/2024	12:37:15 PM	0.9	0.000	0.58	20.52	0.11	191.34
5/20/2024	12:38:18 PM	0.9	0.000	0.42	22.29	0.23	191.36
5/20/2024	12:39:21 PM	0.9	0.000	0.47	21.86	0.28	191.36
5/20/2024	12:40:24 PM	0.9	0.000	0.79	16.14	0.24	191.43
5/20/2024	12:41:27 PM	0.9	0.000	0.75	18.69	0.21	191.40
5/20/2024	12:42:30 PM	0.9	0.000	0.76	16.88	0.15	191.42
5/20/2024	12:43:33 PM	0.9	0.000	0.77	18.36	0.17	191.50
5/20/2024	12:44:35 PM	0.9	0.000	1.01	17.67	0.22	191.46
5/20/2024	12:45:38 PM	0.9	0.000	0.82	20.35	0.23	191.38
5/20/2024	12:46:41 PM	0.9	0.000	0.40	21.96	0.29	191.40
5/20/2024	12:47:44 PM	0.9	0.000	0.68	17.05	0.25	191.38
5/20/2024	12:48:47 PM	0.9	0.000	0.76	18.36	0.25	191.41
5/20/2024	12:49:50 PM	0.9	0.000	0.75	18.54	0.23	191.40
5/20/2024	12:50:53 PM	0.9	0.000	0.42	20.59	0.30	191.40
5/20/2024	12:51:56 PM	0.9	0.000	0.86	17.06	0.04	191.42
5/20/2024	12:52:59 PM	0.9	0.000	1.10	18.47	-0.06	191.38
5/20/2024	12:54:01 PM	0.9	0.000	0.77	18.35	0.15	191.35
5/20/2024	12:55:04 PM	0.9	0.000	0.66	19.93	0.24	191.36
5/20/2024	12:56:07 PM	0.9	0.000	0.82	17.28	0.25	191.38
5/20/2024	12:57:10 PM	0.9	0.000	0.24	23.78	0.32	191.38
5/20/2024	12:58:13 PM	0.9	0.000	0.57	21.03	0.23	191.38
5/20/2024	12:59:16 PM	0.9	0.000	0.99	17.94	0.21	191.40
5/20/2024	1:00:19 PM	0.9	0.000	0.81	19.98	0.11	191.38
5/20/2024	1:01:22 PM	0.9	0.000	0.24	23.41	0.29	191.37
5/20/2024	1:02:25 PM	0.9	0.000	0.74	18.25	0.26	191.40
5/20/2024	1:03:27 PM	0.9	0.000	0.65	16.57	0.17	191.40
5/20/2024	1:04:30 PM	0.9	0.000	0.47	21.91	0.28	191.38
5/20/2024	1:05:33 PM	0.9	0.000	0.70	17.66	0.21	191.38
5/20/2024	1:06:36 PM	0.9	0.000	0.30	19.20	-0.10	191.37
5/20/2024	1:07:39 PM	0.9	0.000	0.23	21.34	0.11	191.36
5/20/2024	1:08:42 PM	0.9	0.000	0.41	9.14	0.06	191.39
5/20/2024	1:09:45 PM	0.9	0.000	0.36	6.03	0.07	191.46
5/20/2024	1:10:47 PM	0.9	0.000	0.36	5.46	0.11	191.50
5/20/2024	1:11:50 PM	0.9	0.000	0.52	5.51	0.23	191.49
5/20/2024	1:12:53 PM	0.9	0.000	0.49	5.49	0.18	191.50
5/20/2024	1:13:56 PM	0.9	0.000	0.42	5.42	0.18	191.52
5/20/2024	1:14:59 PM	0.9	0.000	0.96	17.89	0.25	191.42
5/20/2024	1:16:02 PM	0.9	0.000	0.54	15.00	0.14	191.38
5/20/2024	1:17:05 PM	0.9	0.000	0.68	17.75	0.25	191.42
5/20/2024	1:18:08 PM	0.9	0.000	0.60	13.48	0.11	191.44
5/20/2024	1:19:11 PM	0.9	0.000	0.57	17.04	0.26	191.42
5/20/2024	1:20:13 PM	0.9	0.000	0.48	20.92	0.32	191.37
5/20/2024	1:21:16 PM	0.9	0.000	1.09	18.91	0.21	191.37
5/20/2024	1:22:19 PM	0.9	0.000	0.81	19.59	0.15	191.39
5/20/2024	1:23:22 PM	0.9	0.000	0.72	15.16	0.12	191.39
5/20/2024	1:24:25 PM	0.9	0.000	0.52	14.13	0.10	191.38
5/20/2024	1:25:28 PM	0.9	0.000	0.39	23.21	0.36	191.36
5/20/2024	1:26:31 PM	0.9	0.000	0.43	20.70	0.26	191.39
5/20/2024	1:27:34 PM	0.9	0.000	0.53	19.46	0.22	191.41
5/20/2024	1:28:37 PM	0.9	0.000	0.47	18.51	0.21	191.41
5/20/2024	1:29:39 PM	0.9	0.000	0.75	17.36	0.22	191.40
5/20/2024	1:30:42 PM	0.9	0.000	0.40	20.64	0.20	191.40
5/20/2024	1:31:45 PM	0.9	0.000	0.49	20.57	0.16	191.40
5/20/2024	1:32:48 PM	0.9	0.000	0.71	17.25	0.23	191.40

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/20/2024	1:33:51 PM	0.9	0.000	0.50	19.16	0.25	191.37
5/20/2024	1:34:54 PM	0.9	0.000	0.25	23.92	0.29	191.36
5/20/2024	1:35:57 PM	0.9	0.000	0.65	16.17	0.23	191.39
5/20/2024	1:37:00 PM	0.9	0.000	0.12	23.67	0.27	191.39
5/20/2024	1:38:02 PM	0.9	0.000	0.62	15.31	0.17	191.42
5/20/2024	1:39:05 PM	0.9	0.000	0.41	20.13	0.24	191.45
5/20/2024	1:40:08 PM	0.9	0.000	0.46	21.01	0.21	191.41
5/20/2024	1:41:11 PM	0.9	0.000	0.73	18.64	0.20	191.42
5/20/2024	1:42:14 PM	0.9	0.000	0.87	17.95	0.19	191.44
5/20/2024	1:43:17 PM	0.9	0.000	0.84	18.87	0.20	191.41
5/20/2024	1:44:20 PM	0.9	0.000	0.77	16.62	0.10	191.41
5/20/2024	1:45:23 PM	0.9	0.000	0.43	21.55	0.27	191.40
5/20/2024	1:46:26 PM	0.9	0.000	0.54	15.43	0.09	191.43
5/20/2024	1:47:28 PM	0.9	0.000	0.39	21.49	0.31	191.45
5/20/2024	1:48:31 PM	0.9	0.000	0.73	17.78	0.24	191.39
5/20/2024	1:49:34 PM	0.9	0.000	0.90	17.38	0.12	191.41
5/20/2024	1:50:37 PM	0.9	0.000	0.17	24.66	0.36	191.39
5/20/2024	1:51:40 PM	0.9	0.000	0.44	19.85	0.24	191.37
5/20/2024	1:52:43 PM	0.9	0.000	0.44	20.62	0.24	191.41
5/20/2024	1:53:46 PM	0.9	0.000	0.84	17.53	0.27	191.38
5/20/2024	1:54:49 PM	0.9	0.000	0.36	24.35	0.33	191.40
5/20/2024	1:55:52 PM	0.9	0.000	0.65	14.57	0.07	191.39
5/20/2024	1:56:54 PM	0.9	0.000	0.66	13.04	0.15	191.45
5/20/2024	1:57:57 PM	0.9	0.000	0.95	16.78	0.08	191.39
5/20/2024	1:59:00 PM	0.9	0.000	0.59	20.06	0.16	191.40
5/20/2024	2:00:03 PM	0.9	0.000	0.62	15.12	0.12	191.42
5/20/2024	2:01:06 PM	0.9	0.000	0.08	25.98	0.25	191.42
5/20/2024	2:02:09 PM	0.9	0.000	0.45	21.87	0.30	191.40
5/20/2024	2:03:12 PM	0.9	0.000	0.80	18.39	0.28	191.40
5/20/2024	2:04:15 PM	0.9	0.000	0.85	19.55	0.22	191.42
5/20/2024	2:05:17 PM	0.9	0.000	0.58	20.37	0.26	191.43
5/20/2024	2:06:21 PM	0.9	0.000	0.73	16.83	0.26	191.44
5/20/2024	2:07:24 PM	0.9	0.000	0.56	21.17	0.08	191.41
5/20/2024	2:08:26 PM	0.9	0.000	0.50	20.35	0.19	191.41
5/20/2024	2:09:29 PM	0.9	0.000	0.58	19.61	0.19	191.43
5/20/2024	2:10:32 PM	0.9	0.000	0.64	16.60	0.22	191.40
5/20/2024	2:11:35 PM	0.9	0.000	0.73	18.66	0.05	191.42
5/20/2024	2:12:38 PM	0.9	0.000	0.30	20.11	0.02	191.45
5/20/2024	2:13:41 PM	0.9	0.000	0.34	17.67	-0.02	191.48
5/20/2024	2:14:44 PM	0.9	0.000	0.31	7.37	0.07	191.46
5/20/2024	2:15:46 PM	0.9	0.000	0.23	5.82	0.10	191.51
5/20/2024	2:16:49 PM	0.9	0.000	0.44	5.34	0.16	191.46
5/20/2024	2:17:52 PM	0.9	0.000	0.46	5.09	0.22	191.49
5/20/2024	2:18:55 PM	0.9	0.000	0.48	5.15	0.15	191.50
5/20/2024	2:19:58 PM	0.9	0.000	0.54	19.46	0.25	191.48
5/20/2024	2:21:01 PM	0.9	0.000	0.55	17.98	0.33	191.48
5/20/2024	2:22:04 PM	0.9	0.000	0.74	16.23	0.22	191.45
5/20/2024	2:23:07 PM	0.9	0.000	0.55	19.43	0.23	191.46
5/20/2024	2:24:09 PM	0.9	0.000	0.76	16.47	0.20	191.40
5/20/2024	2:25:12 PM	0.9	0.000	0.76	16.28	0.23	191.41
5/20/2024	2:26:15 PM	0.9	0.000	0.45	20.49	0.32	191.44
5/20/2024	2:27:18 PM	0.9	0.000	0.35	22.27	0.18	191.41
5/20/2024	2:28:21 PM	0.9	0.000	0.79	18.83	0.29	191.41
5/20/2024	2:29:24 PM	0.9	0.000	0.82	17.38	0.21	191.43
5/20/2024	2:30:27 PM	0.9	0.000	0.13	25.78	0.08	191.37
5/20/2024	2:31:30 PM	0.9	0.000	0.72	18.14	0.19	191.36
5/20/2024	2:32:32 PM	0.9	0.000	0.41	21.59	0.25	191.39
5/20/2024	2:33:35 PM	0.9	0.000	0.68	17.35	0.22	191.44
5/20/2024	2:34:38 PM	0.9	0.000	0.70	15.87	0.21	191.43
5/20/2024	2:35:41 PM	0.9	0.000	0.65	16.00	0.19	191.42
5/20/2024	2:36:44 PM	0.9	0.000	0.00	26.17	0.24	191.40
5/20/2024	2:37:47 PM	0.9	0.000	-0.23	29.00	0.51	191.35
5/20/2024	2:38:50 PM	0.9	0.000	0.71	17.19	0.21	191.39
5/20/2024	2:39:53 PM	0.9	0.000	0.53	20.68	0.27	191.45

BASF - Freeport, TX  
Incinerator IN-701 FTIR Data

Date	Time	Temp (C)	Pressure (Atm)	HCN (ppmvw)	H2O (%)	Ethylene (ppmvw)	SF6 (ppmvw)
5/20/2024	2:40:56 PM	0.9	0.000	0.81	18.41	0.20	191.44
5/20/2024	2:41:58 PM	0.9	0.000	0.73	16.37	0.27	191.46
5/20/2024	2:43:01 PM	0.9	0.000	0.37	21.96	0.32	191.43
5/20/2024	2:44:04 PM	0.9	0.000	0.44	20.92	0.26	191.38
5/20/2024	2:45:07 PM	0.9	0.000	0.70	9.92	0.23	191.41
5/20/2024	2:46:10 PM	0.9	0.000	0.41	23.42	0.13	191.39
5/20/2024	2:47:13 PM	0.9	0.000	0.46	20.37	0.17	191.39
5/20/2024	2:48:16 PM	0.9	0.000	0.66	18.75	0.28	191.38
5/20/2024	2:49:19 PM	0.9	0.000	0.80	16.05	0.17	191.37
5/20/2024	2:50:22 PM	0.9	0.000	0.52	19.45	0.46	191.40
5/20/2024	2:51:25 PM	0.9	0.000	0.56	20.31	0.38	191.41
5/20/2024	2:52:27 PM	0.9	0.000	1.10	16.78	0.05	191.41
5/20/2024	2:53:30 PM	0.9	0.000	0.61	13.37	0.11	191.37
5/20/2024	2:54:33 PM	0.9	0.000	0.49	21.28	0.28	191.39
5/20/2024	2:55:36 PM	0.9	0.000	0.96	17.03	0.10	191.41
5/20/2024	2:56:39 PM	0.9	0.000	0.54	21.47	0.26	191.41
5/20/2024	2:57:42 PM	0.9	0.000	0.55	20.52	0.27	191.40
5/20/2024	2:58:45 PM	0.9	0.000	0.57	14.81	0.18	191.39
5/20/2024	2:59:47 PM	0.9	0.000	0.56	16.08	0.12	191.40
5/20/2024	3:00:50 PM	0.9	0.000	0.52	21.84	0.11	191.40
5/20/2024	3:01:53 PM	0.9	0.000	0.48	20.49	0.16	191.39
5/20/2024	3:02:56 PM	0.9	0.000	0.21	24.29	0.08	191.37
5/20/2024	3:03:59 PM	0.9	0.000	0.32	14.53	-0.01	191.37
5/20/2024	3:05:02 PM	0.9	0.000	0.21	11.56	0.07	191.39
5/20/2024	3:06:05 PM	0.9	0.000	0.33	6.12	0.09	191.44
5/20/2024	3:07:08 PM	0.9	0.000	0.34	6.02	0.04	191.46
5/20/2024	3:08:11 PM	0.9	0.000	0.24	12.16	0.14	191.50
5/20/2024	3:09:14 PM	1.0	0.000	0.44	5.46	0.21	191.52
5/20/2024	3:10:16 PM	1.0	0.000	-0.09	0.39	-0.04	191.62
5/20/2024	3:11:19 PM	1.0	0.000	0.12	-0.07	0.07	191.71
5/20/2024	3:12:22 PM	1.0	0.000	0.07	-0.09	0.01	191.71
5/20/2024	3:13:25 PM	1.0	0.000	0.11	-0.09	0.03	191.75
5/20/2024	3:14:28 PM	1.0	0.000	0.09	-0.09	0.00	191.74
5/20/2024	3:17:42 PM	1.0	0.000	0.00	0.00	0.00	191.78
5/20/2024	3:18:51 PM	1.0	0.000	-0.04	0.00	-0.03	191.77
5/20/2024	3:19:54 PM	1.0	0.000	-0.03	0.00	81.40	191.73
5/20/2024	3:20:57 PM	1.0	0.000	0.06	-0.01	99.09	191.71
5/20/2024	3:22:00 PM	1.0	0.000	-0.02	0.00	99.33	191.71
5/20/2024	3:23:03 PM	1.0	0.000	-0.05	-0.01	99.23	191.70
5/20/2024	3:24:06 PM	1.0	0.000	0.02	0.00	26.55	191.70



**Last Page of Report**

## Appendix E: ANALYTICAL DATA PACKAGES

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## Table of Contents

Appendix	Description
E.1	Liquid Waste Analyses
E.2	Stack Gas Analyses – Polycyclic Aromatic Hydrocarbons And Polychlorinated Biphenyls

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## **Appendix E.1**

### **Liquid Waste Analyses**



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Austin Abranovic  
Alliance Source Testing, LLC  
214 Central Circle SW  
Decatur AL 35603

Generated 6/30/2024 1:48 PM

## JOB DESCRIPTION

BASF Waste Feeds

## JOB NUMBER

140-36941-1

# Eurofins Knoxville

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

## Authorization



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Authorized for release by  
Courtney M Adkins, Project Manager II  
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865 291-3019

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# Definitions/Glossary

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

## Qualifiers

### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



# Method Summary

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Method	Method Description	Protocol	Laboratory
D240	Heat of Combustion	ASTM	EET KNX

- Protocol References:**  
ASTM = ASTM International
- Laboratory References:**  
EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

# Sample Summary

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-36941-1	WASTE FEED #1 ACID -RUN 1A	Waste	05/15/24 09:13	05/30/24 19:00
140-36941-3	WASTE FEED #1 ACID -RUN 2A	Waste	05/15/24 14:02	05/30/24 19:00
140-36941-5	WASTE FEED #1 ACID -RUN 3A	Waste	05/16/24 07:06	05/30/24 19:00
140-36941-7	WASTE FEED #1 ACID -RUN 4A	Waste	05/16/24 11:40	05/30/24 19:00
140-36941-9	WASTE FEED #1 ACID -RUN 5A	Waste	05/17/24 07:00	05/30/24 19:00
140-36941-10	WASTE FEED #1 ACID -RUN 5B-DUP	Waste	05/17/24 07:00	05/30/24 19:00
140-36941-11	WASTE FEED #1 ACID -RUN 6A	Waste	05/17/24 11:38	05/30/24 19:00
140-36941-13	WASTE FEED #1 ACID -RUN 7A	Waste	05/20/24 10:55	05/30/24 19:00
140-36941-15	WASTE FEED #2 RESIDUE-RUN 1A	Waste	05/15/24 09:13	05/30/24 19:00
140-36941-17	WASTE FEED #2 RESIDUE-RUN 2A	Waste	05/15/24 14:02	05/30/24 19:00
140-36941-19	WASTE FEED #2 RESIDUE-RUN 3A	Waste	05/16/24 07:06	05/30/24 19:00
140-36941-21	WASTE FEED #2 RESIDUE-RUN 4A	Waste	05/16/24 11:40	05/30/24 19:00
140-36941-23	WASTE FEED #2 RESIDUE-RUN 5A	Waste	05/17/24 07:00	05/30/24 19:00
140-36941-24	WASTE FEED #2 RESIDUE-RUN 5B-DUP	Waste	05/17/24 07:00	05/30/24 19:00
140-36941-25	WASTE FEED #2 RESIDUE-RUN 6A	Waste	05/17/24 11:38	05/30/24 19:00
140-36941-27	WASTE FEED #2 RESIDUE-RUN 7A	Waste	05/20/24 10:55	05/30/24 19:00

**Job Narrative**  
**140-36941-1**

**Receipt**

The samples were received on 5/30/2024 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 4.0° C.

**Receipt Exceptions**

The Field Sampler was not listed on the Chain of Custody.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Matrix not listed, logged per project requirements.

**General Chemistry**

Gross Calorific Value: The heat of combustion (gross calorific value) of the samples was determined using SOP number KNOX-WC-0010 (based on ASTM Method D5865 for solids and ASTM Method D240 for liquids). A waste feed sample is combusted in an oxygen bomb that has been placed in a bomb calorimeter. The energy released during this combustion process is captured in the calorimeter, and the temperature rise of a water bath surrounding the bomb is measured. The temperature rise is proportional to the heat liberated during the combustion in calories. The gross calorific value is calculated from the temperature rise, the sample weight, and the calibration coefficient of the calorimeter. Certain extraneous sources of heat are assessed, and the effect of these heat sources is accounted for in the calculation, as well as the effect of various accelerants that are added to enhance combustion of the sample. The gross heat of combustion is calculated in units of cal/g using the following equation:

$$Q \text{ (gross)} = [(\Delta tEE) - (e1+e2+e3+e4)] / m$$

Where:

Q (gross) = Gross calorific value at constant volume as determined, cal/g

EE = Heat capacity of the calorimeter, cal/°C

Δt = Corrected temperature rise as measured by the calorimeter, °C

e1 = Correction for heat of formation of nitric acid in calories, calculated by the calorimeter based on the energy released by the sample

e2 = Correction for sulfur, which is usually 0

e3 = Correction for fuse wire

e4 = Correction for spike addition that is calculated by the calorimeter using the spike weight benzoic acid equivalent (grams) times the benzoic acid heat of combustion (6318 cal/g)

m = Mass of the sample, g

The results are converted to Btu/lb, as necessary using the following conversion factor: 1 cal/g = 1.8 Btu/lb.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# QC Association Summary

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

## General Chemistry

### Analysis Batch: 88130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36941-1	WASTE FEED #1 ACID -RUN 1A	Total/NA	Waste	D240	
LCS 140-88130/3	Lab Control Sample	Total/NA	Waste	D240	
LCSD 140-88130/4	Lab Control Sample Dup	Total/NA	Waste	D240	
140-36928-A-5 DU	Duplicate	Total/NA	Waste	D240	

### Analysis Batch: 88175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36941-3	WASTE FEED #1 ACID -RUN 2A	Total/NA	Waste	D240	
140-36941-5	WASTE FEED #1 ACID -RUN 3A	Total/NA	Waste	D240	
140-36941-7	WASTE FEED #1 ACID -RUN 4A	Total/NA	Waste	D240	
140-36941-9	WASTE FEED #1 ACID -RUN 5A	Total/NA	Waste	D240	
140-36941-10	WASTE FEED #1 ACID -RUN 5B-DUP	Total/NA	Waste	D240	
140-36941-11	WASTE FEED #1 ACID -RUN 6A	Total/NA	Waste	D240	
140-36941-13	WASTE FEED #1 ACID -RUN 7A	Total/NA	Waste	D240	
140-36941-15	WASTE FEED #2 RESIDUE-RUN 1A	Total/NA	Waste	D240	
140-36941-17	WASTE FEED #2 RESIDUE-RUN 2A	Total/NA	Waste	D240	
140-36941-19	WASTE FEED #2 RESIDUE-RUN 3A	Total/NA	Waste	D240	
140-36941-21	WASTE FEED #2 RESIDUE-RUN 4A	Total/NA	Waste	D240	
140-36941-23	WASTE FEED #2 RESIDUE-RUN 5A	Total/NA	Waste	D240	
140-36941-24	WASTE FEED #2 RESIDUE-RUN 5B-DUP	Total/NA	Waste	D240	
140-36941-25	WASTE FEED #2 RESIDUE-RUN 6A	Total/NA	Waste	D240	
140-36941-27	WASTE FEED #2 RESIDUE-RUN 7A	Total/NA	Waste	D240	
LCS 140-88175/3	Lab Control Sample	Total/NA	Waste	D240	
LCSD 140-88175/4	Lab Control Sample Dup	Total/NA	Waste	D240	
140-36941-5 DU	WASTE FEED #1 ACID -RUN 3A	Total/NA	Waste	D240	
140-36941-19 DU	WASTE FEED #2 RESIDUE-RUN 3A	Total/NA	Waste	D240	

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #1 ACID -RUN 1A  
Date Collected: 05/15/24 09:13  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-1  
Matrix: Waste

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	ND		1700	339	BTU/lb			06/26/24 10:55	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #1 ACID -RUN 2A  
Date Collected: 05/15/24 14:02  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-3  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	449	J	1750	350	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #1 ACID -RUN 3A  
Date Collected: 05/16/24 07:06  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-5  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	628	J	1710	343	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #1 ACID -RUN 4A  
Date Collected: 05/16/24 11:40  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-7  
Matrix: Waste

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	ND		1710	342	BTU/lb			06/27/24 10:39	1



Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #1 ACID -RUN 5A  
Date Collected: 05/17/24 07:00  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-9  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	398	J	1690	339	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #1 ACID -RUN 5B-DUP  
Date Collected: 05/17/24 07:00  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-10  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	346	J	1680	335	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #1 ACID -RUN 6A  
Date Collected: 05/17/24 11:38  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-11  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	351	J	1720	343	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #1 ACID -RUN 7A  
Date Collected: 05/20/24 10:55  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-13  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	1300	J	1680	337	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 1A  
Date Collected: 05/15/24 09:13  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-15  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11900		1650	330	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 2A  
Date Collected: 05/15/24 14:02  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-17  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11800		1700	340	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 3A  
Date Collected: 05/16/24 07:06  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-19  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11800		1700	340	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 4A  
Date Collected: 05/16/24 11:40  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-21  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11700		1680	336	BTU/lb			06/27/24 10:39	1



Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 5A  
Date Collected: 05/17/24 07:00  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-23  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11700		1700	339	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 5B-DUP  
Date Collected: 05/17/24 07:00  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-24  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11500		1710	342	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 6A  
Date Collected: 05/17/24 11:38  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-25  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11600		1720	344	BTU/lb			06/27/24 10:39	1

Client Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 7A  
Date Collected: 05/20/24 10:55  
Date Received: 05/30/24 19:00

Lab Sample ID: 140-36941-27  
Matrix: Waste

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gross Calorific Value (ASTM D240)	11100		1680	336	BTU/lb			06/27/24 10:40	1

Default Detection Limits

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

General Chemistry

Analyte	RL	MDL	Units
Gross Calorific Value	1800	360	BTU/lb

# QC Sample Results

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

## Method: D240 - Heat of Combustion

Lab Sample ID: LCS 140-88130/3  
Matrix: Waste  
Analysis Batch: 88130

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gross Calorific Value	20600	20380		BTU/lb		99	98 - 102

Lab Sample ID: LCSD 140-88130/4  
Matrix: Waste  
Analysis Batch: 88130

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gross Calorific Value	20600	20540		BTU/lb		100	98 - 102	1	2.0

Lab Sample ID: 140-36928-A-5 DU  
Matrix: Waste  
Analysis Batch: 88130

Client Sample ID: Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gross Calorific Value	16900		16960		BTU/lb		0.2	10

Lab Sample ID: LCS 140-88175/3  
Matrix: Waste  
Analysis Batch: 88175

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gross Calorific Value	20600	20270		BTU/lb		99	98 - 102

Lab Sample ID: LCSD 140-88175/4  
Matrix: Waste  
Analysis Batch: 88175

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gross Calorific Value	20600	20380		BTU/lb		99	98 - 102	1	2.0

Lab Sample ID: 140-36941-5 DU  
Matrix: Waste  
Analysis Batch: 88175

Client Sample ID: WASTE FEED #1 ACID -RUN 3A  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gross Calorific Value	628	J	ND		BTU/lb		NC	10

Lab Sample ID: 140-36941-19 DU  
Matrix: Waste  
Analysis Batch: 88175

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 3A  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Gross Calorific Value	11800		11800		BTU/lb		0.4	10

# Lab Chronicle

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

**Client Sample ID: WASTE FEED #1 ACID -RUN 1A**

**Lab Sample ID: 140-36941-1**

**Date Collected: 05/15/24 09:13**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5304 g	0.5 g	88130	06/26/24 10:55	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #1 ACID -RUN 2A**

**Lab Sample ID: 140-36941-3**

**Date Collected: 05/15/24 14:02**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5146 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #1 ACID -RUN 3A**

**Lab Sample ID: 140-36941-5**

**Date Collected: 05/16/24 07:06**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5249 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #1 ACID -RUN 4A**

**Lab Sample ID: 140-36941-7**

**Date Collected: 05/16/24 11:40**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5266 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #1 ACID -RUN 5A**

**Lab Sample ID: 140-36941-9**

**Date Collected: 05/17/24 07:00**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5313 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #1 ACID -RUN 5B-DUP**

**Lab Sample ID: 140-36941-10**

**Date Collected: 05/17/24 07:00**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5366 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

**Client Sample ID: WASTE FEED #1 ACID -RUN 6A**

**Lab Sample ID: 140-36941-11**

**Date Collected: 05/17/24 11:38**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5246 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #1 ACID -RUN 7A**

**Lab Sample ID: 140-36941-13**

**Date Collected: 05/20/24 10:55**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5344 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #2 RESIDUE-RUN 1A**

**Lab Sample ID: 140-36941-15**

**Date Collected: 05/15/24 09:13**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5450 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #2 RESIDUE-RUN 2A**

**Lab Sample ID: 140-36941-17**

**Date Collected: 05/15/24 14:02**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5295 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #2 RESIDUE-RUN 3A**

**Lab Sample ID: 140-36941-19**

**Date Collected: 05/16/24 07:06**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5296 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #2 RESIDUE-RUN 4A**

**Lab Sample ID: 140-36941-21**

**Date Collected: 05/16/24 11:40**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5364 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										



# Lab Chronicle

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

**Client Sample ID: WASTE FEED #2 RESIDUE-RUN 5A**

**Lab Sample ID: 140-36941-23**

**Date Collected: 05/17/24 07:00**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5306 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #2 RESIDUE-RUN 5B-DUP**

**Lab Sample ID: 140-36941-24**

**Date Collected: 05/17/24 07:00**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5260 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #2 RESIDUE-RUN 6A**

**Lab Sample ID: 140-36941-25**

**Date Collected: 05/17/24 11:38**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5239 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #2 RESIDUE-RUN 7A**

**Lab Sample ID: 140-36941-27**

**Date Collected: 05/20/24 10:55**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5350 g	0.5 g	88175	06/27/24 10:40	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 140-88130/3**

**Date Collected: N/A**

**Matrix: Waste**

**Date Received: N/A**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5120 g	0.5 g	88130	06/26/24 10:41	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 140-88175/3**

**Date Collected: N/A**

**Matrix: Waste**

**Date Received: N/A**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5019 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

# Lab Chronicle

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 140-88130/4**

**Date Collected: N/A**

**Matrix: Waste**

**Date Received: N/A**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5172 g	0.5 g	88130	06/26/24 10:41	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 140-88175/4**

**Date Collected: N/A**

**Matrix: Waste**

**Date Received: N/A**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5072 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: Duplicate**

**Lab Sample ID: 140-36928-A-5 DU**

**Date Collected: N/A**

**Matrix: Waste**

**Date Received: N/A**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5435 g	0.5 g	88130	06/26/24 10:54	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #1 ACID -RUN 3A**

**Lab Sample ID: 140-36941-5 DU**

**Date Collected: 05/16/24 07:06**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5222 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

**Client Sample ID: WASTE FEED #2 RESIDUE-RUN 3A**

**Lab Sample ID: 140-36941-19 DU**

**Date Collected: 05/16/24 07:06**

**Matrix: Waste**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D240		1	0.5268 g	0.5 g	88175	06/27/24 10:39	TMB	EET KNX
Instrument ID: NOEQUIP										

## Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

# Accreditation/Certification Summary

Client: Alliance Source Testing, LLC  
Project/Site: BASF Waste Feeds

Job ID: 140-36941-1

## Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-25
Colorado	State	TN00009	02-28-25
Connecticut	State	PH-0223	10-01-26
Florida	NELAP	E87177	06-30-24
Georgia (DW)	State	906	07-27-25
Hawaii	State	NA	07-27-24
Kansas	NELAP	E-10349	10-31-24
Kentucky (DW)	State	90101	12-31-24
Louisiana (All)	NELAP	83979	06-30-24
Louisiana (DW)	State	LA019	12-31-24
Maryland	State	277	03-31-25
Michigan	State	9933	07-27-25
Nevada	State	TN00009	07-31-24
New Hampshire	NELAP	2999	01-17-25
New Jersey	NELAP	TN001	06-30-25
New York	NELAP	10781	03-31-25
North Carolina (DW)	State	21705	07-31-24
North Carolina (WW/SW)	State	64	12-31-24
Oklahoma	State	9415	08-31-24
Oregon	NELAP	TNI0189	01-01-25
Pennsylvania	NELAP	68-00576	12-31-24
Tennessee	State	02014	07-27-25
Texas	NELAP	T104704380-23-18	08-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	525-22-279-18762	10-06-25
Utah	NELAP	TN00009	07-31-24
Virginia	NELAP	460176	09-14-24
Washington	State	C593	01-19-25
West Virginia (DW)	State	9955C	12-31-24
West Virginia DEP	State	345	04-30-25
Wisconsin	State	998044300	08-31-24

# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville

Job Number: 140-36941-1

SDG No.:

Project: BASF Waste Feeds

Client Sample ID	Lab Sample ID
WASTE FEED #1 ACID -RUN 1A	140-36941-1
WASTE FEED #1 ACID -RUN 2A	140-36941-3
WASTE FEED #1 ACID -RUN 3A	140-36941-5
WASTE FEED #1 ACID -RUN 4A	140-36941-7
WASTE FEED #1 ACID -RUN 5A	140-36941-9
WASTE FEED #1 ACID -RUN 5B-DUP	140-36941-10
WASTE FEED #1 ACID -RUN 6A	140-36941-11
WASTE FEED #1 ACID -RUN 7A	140-36941-13
WASTE FEED #2 RESIDUE-RUN 1A	140-36941-15
WASTE FEED #2 RESIDUE-RUN 2A	140-36941-17
WASTE FEED #2 RESIDUE-RUN 3A	140-36941-19
WASTE FEED #2 RESIDUE-RUN 4A	140-36941-21
WASTE FEED #2 RESIDUE-RUN 5A	140-36941-23
WASTE FEED #2 RESIDUE-RUN 5B-DUP	140-36941-24
WASTE FEED #2 RESIDUE-RUN 6A	140-36941-25
WASTE FEED #2 RESIDUE-RUN 7A	140-36941-27

Comments:

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #1 ACID -RUN 1A

Lab Sample ID: 140-36941-1

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/15/2024 09:13

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	ND	1700	339	BTU/lb			1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #1 ACID -RUN 2A

Lab Sample ID: 140-36941-3

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/15/2024 14:02

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	449	1750	350	BTU/lb	J		1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #1 ACID -RUN 3A

Lab Sample ID: 140-36941-5

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/16/2024 07:06

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	628	1710	343	BTU/lb	J		1	D240



1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #1 ACID -RUN 4A

Lab Sample ID: 140-36941-7

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/16/2024 11:40

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	ND	1710	342	BTU/lb			1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #1 ACID -RUN 5A

Lab Sample ID: 140-36941-9

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/17/2024 07:00

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	398	1690	339	BTU/lb	J		1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #1 ACID -RUN 5B-DUP

Lab Sample ID: 140-36941-10

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/17/2024 07:00

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	346	1680	335	BTU/lb	J		1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #1 ACID -RUN 6A

Lab Sample ID: 140-36941-11

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/17/2024 11:38

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	351	1720	343	BTU/lb	J		1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #1 ACID -RUN 7A

Lab Sample ID: 140-36941-13

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/20/2024 10:55

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	1300	1680	337	BTU/lb	J		1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 1A

Lab Sample ID: 140-36941-15

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/15/2024 09:13

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11900	1650	330	BTU/lb			1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 2A

Lab Sample ID: 140-36941-17

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/15/2024 14:02

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11800	1700	340	BTU/lb			1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 3A

Lab Sample ID: 140-36941-19

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/16/2024 07:06

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11800	1700	340	BTU/lb			1	D240



1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 4A

Lab Sample ID: 140-36941-21

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/16/2024 11:40

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11700	1680	336	BTU/lb			1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 5A

Lab Sample ID: 140-36941-23

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/17/2024 07:00

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11700	1700	339	BTU/lb			1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 5B-DUP

Lab Sample ID: 140-36941-24

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/17/2024 07:00

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11500	1710	342	BTU/lb			1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 6A

Lab Sample ID: 140-36941-25

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/17/2024 11:38

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11600	1720	344	BTU/lb			1	D240

1B-IN  
INORGANIC ANALYSIS DATA SHEET  
GENERAL CHEMISTRY

Client Sample ID: WASTE FEED #2 RESIDUE-RUN 7A

Lab Sample ID: 140-36941-27

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG ID.:

Matrix: Waste

Date Sampled: 05/20/2024 10:55

Reporting Basis: WET

Date Received: 05/30/2024 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	Gross Calorific Value	11100	1680	336	BTU/lb			1	D240

2-IN  
CALIBRATION QUALITY CONTROL  
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36941-1  
SDG No.: \_\_\_\_\_  
Analyst: TMB Batch Start Date: 06/26/2024  
Reporting Units: BTU/lb Analytical Batch No.: 88130

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:41	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_00010
2	CCV	10:41	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_00010

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN  
CALIBRATION QUALITY CONTROL  
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36941-1  
SDG No.: \_\_\_\_\_  
Analyst: TMB Batch Start Date: 06/27/2024  
Reporting Units: BTU/lb Analytical Batch No.: 88175

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:39	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_00010
2	CCV	10:39	Gross Calorific Value	11370	11400	100	99-101		85INBENZACIDP_00010

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

6-IN  
DUPLICATE  
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36941-1  
SDG No.: \_\_\_\_\_  
Matrix: Waste

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 88130 Date: 06/26/2024 10:54								
D240		140-36928-A-5	Gross Calorific Value	16900	BTU/lb			
D240		140-36928-A-5 DU	Gross Calorific Value	16960	BTU/lb	0.2	10	
Batch ID: 88175 Date: 06/27/2024 10:39								
D240	WASTE FEED #1 ACID -RUN 3A	140-36941-5	Gross Calorific Value	628	BTU/lb			J
D240	WASTE FEED #1 ACID -RUN 3A	140-36941-5 DU	Gross Calorific Value	ND	BTU/lb	NC	10	
Batch ID: 88175 Date: 06/27/2024 10:39								
D240	WASTE FEED #2 RESIDUE-RUN 3A	140-36941-19	Gross Calorific Value	11800	BTU/lb			
D240	WASTE FEED #2 RESIDUE-RUN 3A	140-36941-19 DU	Gross Calorific Value	11800	BTU/lb	0.4	10	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN



7A-IN  
LAB CONTROL SAMPLE  
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville

Job No.: 140-36941-1

SDG No.:

Matrix: Waste

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 88130 Date: 06/26/2024 10:41											
						LCS Source: 85NTISOCTP_00005					
D240	LCS 140-88130/3	Gross Calorific Value	20380		BTU/lb	20600	99	98-102	1	2.0	
Batch ID: 88175 Date: 06/27/2024 10:39											
						LCS Source: 85NTISOCTP_00005					
D240	LCS 140-88175/3	Gross Calorific Value	20270		BTU/lb	20600	99	98-102	1	2.0	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

7A-IN  
LAB CONTROL SAMPLE DUPLICATE  
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36941-1

SDG No.:

Matrix: Waste

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 88130 Date: 06/26/2024 10:41											
						LCSD Source: 85NTISOCTP_00005					
D240	LCSD 140-88130/4	Gross Calorific Value	20540		BTU/lb	20600	100	98-102	1	2.0	
Batch ID: 88175 Date: 06/27/2024 10:39											
						LCSD Source: 85NTISOCTP_00005					
D240	LCSD 140-88175/4	Gross Calorific Value	20380		BTU/lb	20600	99	98-102	1	2.0	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville

Job Number: 140-36941-1

SDG Number: \_\_\_\_\_

Matrix: Waste

Instrument ID: NOEQUIP

Method: D240

MDL Date: 09/25/2019 10:07

Analyte	Wavelength/ Mass	RL (BTU/lb)	MDL (BTU/lb)
Gross Calorific Value		1800	360

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job Number: 140-36941-1  
SDG Number: \_\_\_\_\_  
Matrix: Waste Instrument ID: NOEQUIP  
Method: D240 XMDL Date: 01/28/2015 15:50

Analyte	Wavelength/ Mass	XRL (BTU/lb)	XMDL (BTU/lb)
Gross Calorific Value		1800	130

Lab Name: Eurofins Knoxville	Job No.: 140-36941-1
SDG No.:	
Instrument ID: NOEQUIP	Analysis Method: D240
Start Date: 06/26/2024 10:41	End Date: 06/26/2024 10:55

[illegible]

BASFHWC-16-000002083  
6/30/2024  
1:48:52 PM

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: Eurofins Knoxville Job No.: 140-36941-1  
SDG No.: \_\_\_\_\_  
Instrument ID: NOEQUIP Analysis Method: D240  
Start Date: 06/27/2024 10:39 End Date: 06/27/2024 10:41

Lab Sample Id	D/F	T Y P e	Time	Analytes																			
				G C V																			
CCV 140-88175/1	1		10:39	X																			
CCV 140-88175/2	1		10:39	X																			
LCS 140-88175/3	1	T	10:39	X																			
LCSD 140-88175/4	1	T	10:39	X																			
140-36941-3	1	T	10:39	X																			
140-36941-5	1	T	10:39	X																			
140-36941-5 DU	1	T	10:39	X																			
140-36941-7	1	T	10:39	X																			
140-36941-9	1	T	10:39	X																			
140-36941-10	1	T	10:39	X																			
140-36941-11	1	T	10:39	X																			
140-36941-13	1	T	10:39	X																			
140-36941-15	1	T	10:39	X																			
140-36941-17	1	T	10:39	X																			
140-36941-19	1	T	10:39	X																			
140-36941-19 DU	1	T	10:39	X																			
140-36941-21	1	T	10:39	X																			
140-36941-23	1	T	10:39	X																			
140-36941-24	1	T	10:39	X																			
140-36941-25	1	T	10:39	X																			
140-36941-27	1	T	10:40	X																			
ZZZZZZ			10:40																				
ZZZZZZ			10:40																				
ZZZZZZ			10:40																				
ZZZZZZ			10:40																				
ZZZZZZ			10:41																				
ZZZZZZ			10:41																				

Prep Types: \_\_\_\_\_  
T = Total/NA

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36941-1

SDG No.: \_\_\_\_\_

Batch Number: 88130 Batch Start Date: 06/26/24 10:41 Batch Analyst: Bunch, Taylor MBatch Method: D240 Batch End Date: 06/27/24 11:27

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	BombId	CalSmpNo	BombEE	TapeWt
CCV 140-88130/1		D240			1.0365 g	0.5 g	1	4758	2370.11 Cal/Degree C	
CCV 140-88130/2		D240			1.0445 g	0.5 g	4	4759	2397.28 Cal/Degree C	
LCS 140-88130/3		D240			0.5120 g	0.5 g	1	4760	2381.61 Cal/Degree C	0.0430 g
LCSD 140-88130/4		D240			0.5172 g	0.5 g	4	4761	2406.77 Cal/Degree C	0.0426 g
140-36928-A-5 DU		D240		T	0.5435 g	0.5 g	4	4782	2406.77 Cal/Degree C	0.0461 g
140-36941-A-1	WASTE FEED #1 ACID -RUN 1A	D240	Waste	T	0.5304 g	0.5 g	1	4788	2381.61 Cal/Degree C	0.0440 g

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	1OctanolWgt	FuseCorr	BAE	TempChg	AcidCorr	HeatofComb
CCV 140-88130/1		D240				15.00 Cal	0 g	2.7737 Degrees C	10.00 Cal	6318.354179450 07 Cal/g
CCV 140-88130/2		D240				15.00 Cal	0 g	2.7634 Degrees C	10.00 Cal	6318.471567257 06 Cal/g
LCS 140-88130/3		D240				15.00 Cal	0.042537195314 9731 g	2.5579 Degrees C	10.00 Cal	11324.55120898 44 Cal/g
LCSD 140-88130/4		D240				15.00 Cal	0.042141500474 8338 g	2.5731 Degrees C	10.00 Cal	11410.69197022 43 Cal/g
140-36928-A-5 DU		D240		T	0.3441 g	15.00 Cal	0.574770591959 481 g	3.6473 Degrees C	10.00 Cal	9423.756432382 7 Cal/g
140-36941-A-1	WASTE FEED #1 ACID -RUN 1A	D240	Waste	T	0.5276 g	15.00 Cal	0.854884710351 377 g	2.3033 Degrees C	10.00 Cal	111.9922944947 21 Cal/g

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	85INBENZACIDP 00010	85NTISOCTP 00005				
CCV 140-88130/1		D240			1.0365 mL					
CCV 140-88130/2		D240			1.0445 mL					
LCS 140-88130/3		D240				0.512 g				
LCSD 140-88130/4		D240				0.5172 g				
140-36928-A-5 DU		D240		T						
140-36941-A-1	WASTE FEED #1 ACID -RUN 1A	D240	Waste	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

D240

Page 1 of 2

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36941-1

SDG No.: \_\_\_\_\_

Batch Number: 88130 Batch Start Date: 06/26/24 10:41 Batch Analyst: Bunch, Taylor MBatch Method: D240 Batch End Date: 06/27/24 11:27

Batch Notes	
Perform Calculation (0=No, 1=Yes)	Yes
Nominal Amount Used	0.5 g
Heat of Combustion Value of Tape	6250 Cal/g
Heat of Combustion Value of Paper	4600 Cal/g
Batch Comment	HoC of gelatin capsule substituted for paper

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

D240

Page 2 of 2



## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins KnoxvilleJob No.: 140-36941-1

SDG No.: \_\_\_\_\_

Batch Number: 88175Batch Start Date: 06/27/24 10:39Batch Analyst: Bunch, Taylor MBatch Method: D240Batch End Date: 06/28/24 14:30

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	BombId	CalSmpNo	BombEE	TapeWt
CCV 140-88175/1		D240			1.0521 g	0.5 g	1	4789	2382.21 Cal/Degree C	
CCV 140-88175/2		D240			1.0595 g	0.5 g	4	4790	2397.61 Cal/Degree C	
LCS 140-88175/3		D240			0.5019 g	0.5 g	1	4791	2378.56 Cal/Degree C	0.0448 g
LCSD 140-88175/4		D240			0.5072 g	0.5 g	4	4792	2401.44 Cal/Degree C	0.0473 g
140-36941-A-3	WASTE FEED #1 ACID -RUN 2A	D240	Waste	T	0.5146 g	0.5 g	1	4793	2378.56 Cal/Degree C	0.0434 g
140-36941-A-5	WASTE FEED #1 ACID -RUN 3A	D240	Waste	T	0.5249 g	0.5 g	4	4794	2401.44 Cal/Degree C	0.0435 g
140-36941-A-5 DU	WASTE FEED #1 ACID -RUN 3A	D240	Waste	T	0.5222 g	0.5 g	1	4795	2378.56 Cal/Degree C	0.0463 g
140-36941-A-7	WASTE FEED #1 ACID -RUN 4A	D240	Waste	T	0.5266 g	0.5 g	4	4796	2401.44 Cal/Degree C	0.0475 g
140-36941-A-9	WASTE FEED #1 ACID -RUN 5A	D240	Waste	T	0.5313 g	0.5 g	1	4797	2378.56 Cal/Degree C	0.0433 g
140-36941-A-10	WASTE FEED #1 ACID -RUN 5B-DUP	D240	Waste	T	0.5366 g	0.5 g	4	4799	2401.44 Cal/Degree C	0.0443 g
140-36941-A-11	WASTE FEED #1 ACID -RUN 6A	D240	Waste	T	0.5246 g	0.5 g	1	4800	2378.56 Cal/Degree C	0.0440 g
140-36941-A-13	WASTE FEED #1 ACID -RUN 7A	D240	Waste	T	0.5344 g	0.5 g	4	4803	2401.44 Cal/Degree C	0.0440 g
140-36941-A-15	WASTE FEED #2 RESIDUE-RUN 1A	D240	Waste	T	0.5450 g	0.5 g	1	4805	2378.56 Cal/Degree C	0.0427 g
140-36941-A-17	WASTE FEED #2 RESIDUE-RUN 2A	D240	Waste	T	0.5295 g	0.5 g	4	4806	2401.44 Cal/Degree C	0.0472 g
140-36941-A-19	WASTE FEED #2 RESIDUE-RUN 3A	D240	Waste	T	0.5296 g	0.5 g	1	4807	2378.56 Cal/Degree C	0.0431 g
140-36941-A-19 DU	WASTE FEED #2 RESIDUE-RUN 3A	D240	Waste	T	0.5268 g	0.5 g	4	4808	2401.44 Cal/Degree C	0.0431 g
140-36941-A-21	WASTE FEED #2 RESIDUE-RUN 4A	D240	Waste	T	0.5364 g	0.5 g	1	4809	2378.56 Cal/Degree C	0.0428 g
140-36941-A-23	WASTE FEED #2 RESIDUE-RUN 5A	D240	Waste	T	0.5306 g	0.5 g	4	4810	2401.44 Cal/Degree C	0.0462 g
140-36941-A-24	WASTE FEED #2 RESIDUE-RUN 5B-DUP	D240	Waste	T	0.5260 g	0.5 g	1	4811	2378.56 Cal/Degree C	0.0466 g
140-36941-A-25	WASTE FEED #2 RESIDUE-RUN 6A	D240	Waste	T	0.5239 g	0.5 g	4	4812	2401.44 Cal/Degree C	0.0436 g

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36941-1

SDG No.: \_\_\_\_\_

Batch Number: 88175 Batch Start Date: 06/27/24 10:39 Batch Analyst: Bunch, Taylor MBatch Method: D240 Batch End Date: 06/28/24 14:30

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	BombId	CalSmpNo	BombEE	TapeWt
140-36941-A-27	WASTE FEED #2 RESIDUE-RUN 7A	D240	Waste	T	0.5350 g	0.5 g	1	4813	2378.56 Cal/Degree C	0.0432 g

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	PaperWt	1OctanolWgt	FuseCorr	BAE	TempChg	AcidCorr
CCV 140-88175/1		D240					15.00 Cal	0 g	2.8010 Degrees C	10.00 Cal
CCV 140-88175/2		D240					15.00 Cal	0 g	2.8025 Degrees C	10.00 Cal
LCS 140-88175/3		D240					15.00 Cal	0.044317822095 5999 g	2.5049 Degrees C	10.00 Cal
LCSD 140-88175/4		D240					15.00 Cal	0.046790914846 4704 g	2.5254 Degrees C	10.00 Cal
140-36941-A-3	WASTE FEED #1 ACID -RUN 2A	D240	Waste	T		0.5522 g	15.00 Cal	0.892121747388 414 g	2.4341 Degrees C	10.00 Cal
140-36941-A-5	WASTE FEED #1 ACID -RUN 3A	D240	Waste	T		0.5397 g	15.00 Cal	0.872997815764 482 g	2.3834 Degrees C	10.00 Cal
140-36941-A-5 DU	WASTE FEED #1 ACID -RUN 3A	D240	Waste	T		0.5405 g	15.00 Cal	0.876997942386 831 g	2.3525 Degrees C	10.00 Cal
140-36941-A-7	WASTE FEED #1 ACID -RUN 4A	D240	Waste	T		0.5496 g	15.00 Cal	0.892179265590 377 g	2.3976 Degrees C	10.00 Cal
140-36941-A-9	WASTE FEED #1 ACID -RUN 5A	D240	Waste	T		0.5452 g	15.00 Cal	0.881258024691 358 g	2.4007 Degrees C	10.00 Cal
140-36941-A-10	WASTE FEED #1 ACID -RUN 5B-DUP	D240	Waste	T		0.5661 g	15.00 Cal	0.914387875910 098 g	2.4591 Degrees C	10.00 Cal
140-36941-A-11	WASTE FEED #1 ACID -RUN 6A	D240	Waste	T		0.5400 g	15.00 Cal	0.873953782842 672 g	2.3750 Degrees C	10.00 Cal
140-36941-A-13	WASTE FEED #1 ACID -RUN 7A	D240	Waste	T	0.2088 g	0.5383 g	15.00 Cal	1.001461069958 85 g	2.8064 Degrees C	10.00 Cal
140-36941-A-15	WASTE FEED #2 RESIDUE-RUN 1A	D240	Waste	T		0.5133 g	15.00 Cal	0.831607755618 867 g	3.7294 Degrees C	10.00 Cal
140-36941-A-17	WASTE FEED #2 RESIDUE-RUN 2A	D240	Waste	T		0.3392 g	15.00 Cal	0.568323393478 949 g	2.9539 Degrees C	10.00 Cal
140-36941-A-19	WASTE FEED #2 RESIDUE-RUN 3A	D240	Waste	T		0.3472 g	15.00 Cal	0.576570148781 26 g	2.9971 Degrees C	10.00 Cal
140-36941-A-19 DU	WASTE FEED #2 RESIDUE-RUN 3A	D240	Waste	T		0.3697 g	15.00 Cal	0.611171288382 4 g	3.0570 Degrees C	10.00 Cal
140-36941-A-21	WASTE FEED #2 RESIDUE-RUN 4A	D240	Waste	T		0.3768 g	15.00 Cal	0.621793099081 988 g	3.1222 Degrees C	10.00 Cal
140-36941-A-23	WASTE FEED #2 RESIDUE-RUN 5A	D240	Waste	T		0.3456 g	15.00 Cal	0.577176258309 592 g	2.9603 Degrees C	10.00 Cal

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36941-1

SDG No.: \_\_\_\_\_

Batch Number: 88175 Batch Start Date: 06/27/24 10:39 Batch Analyst: Bunch, Taylor MBatch Method: D240 Batch End Date: 06/28/24 14:30

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	PaperWt	1OctanolWgt	FuseCorr	BAE	TempChg	AcidCorr
140-36941-A-24	WASTE FEED #2 RESIDUE-RUN 5B-DUP	D240	Waste	T		0.3357 g	15.00 Cal	0.562347451725 229 g	2.9166 Degrees C	10.00 Cal
140-36941-A-25	WASTE FEED #2 RESIDUE-RUN 6A	D240	Waste	T		0.3382 g	15.00 Cal	0.563224311490 978 g	2.8956 Degrees C	10.00 Cal
140-36941-A-27	WASTE FEED #2 RESIDUE-RUN 7A	D240	Waste	T		0.3526 g	15.00 Cal	0.584973345995 568 g	2.9553 Degrees C	10.00 Cal

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	HeatofComb	85INBENZACIDP 00010	85NTISOOCTP 00005			
CCV 140-88175/1		D240			6318.382482653 74 Cal/g	1.0521 mL				
CCV 140-88175/2		D240			6318.359627182 63 Cal/g	1.0595 mL				
LCS 140-88175/3		D240			11263.30931261 21 Cal/g		0.5019 g			
LCSD 140-88175/4		D240			11324.86509463 72 Cal/g		0.5072 g			
140-36941-A-3	WASTE FEED #1 ACID -RUN 2A	D240	Waste	T	249.1793548387 1 Cal/g					
140-36941-A-5	WASTE FEED #1 ACID -RUN 3A	D240	Waste	T	348.6223966469 8 Cal/g					
140-36941-A-5 DU	WASTE FEED #1 ACID -RUN 3A	D240	Waste	T	56.85446189199 58 Cal/g					
140-36941-A-7	WASTE FEED #1 ACID -RUN 4A	D240	Waste	T	182.1191492594 01 Cal/g					
140-36941-A-9	WASTE FEED #1 ACID -RUN 5A	D240	Waste	T	221.0065725578 77 Cal/g					
140-36941-A-10	WASTE FEED #1 ACID -RUN 5B-DUP	D240	Waste	T	192.4683265001 86 Cal/g					
140-36941-A-11	WASTE FEED #1 ACID -RUN 6A	D240	Waste	T	195.2725886389 63 Cal/g					
140-36941-A-13	WASTE FEED #1 ACID -RUN 7A	D240	Waste	T	724.4950898203 61 Cal/g					
140-36941-A-15	WASTE FEED #2 RESIDUE-RUN 1A	D240	Waste	T	6589.915346788 99 Cal/g					
140-36941-A-17	WASTE FEED #2 RESIDUE-RUN 2A	D240	Waste	T	6568.359614730 88 Cal/g					
140-36941-A-19	WASTE FEED #2 RESIDUE-RUN 3A	D240	Waste	T	6535.143459214 5 Cal/g					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36941-1

SDG No.: \_\_\_\_\_

Batch Number: 88175 Batch Start Date: 06/27/24 10:39 Batch Analyst: Bunch, Taylor MBatch Method: D240 Batch End Date: 06/28/24 14:30

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	HeatofComb	85INBENZACIDP 00010	85NTISOCTP 00005			
140-36941-A-19 DU	WASTE FEED #2 RESIDUE-RUN 3A	D240	Waste	T	6558.128094153 38 Cal/g					
140-36941-A-21	WASTE FEED #2 RESIDUE-RUN 4A	D240	Waste	T	6474.368441461 6 Cal/g					
140-36941-A-23	WASTE FEED #2 RESIDUE-RUN 5A	D240	Waste	T	6478.294820957 41 Cal/g					
140-36941-A-24	WASTE FEED #2 RESIDUE-RUN 5B-DUP	D240	Waste	T	6386.686114068 44 Cal/g					
140-36941-A-25	WASTE FEED #2 RESIDUE-RUN 6A	D240	Waste	T	6432.827761023 1 Cal/g					
140-36941-A-27	WASTE FEED #2 RESIDUE-RUN 7A	D240	Waste	T	6184.106108411 21 Cal/g					

Batch Notes	
Perform Calculation (0=No, 1=Yes)	Yes
Nominal Amount Used	0.5 g
Heat of Combustion Value of Tape	6250 Cal/g
Heat of Combustion Value of Paper	3937.3 Cal/g

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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General Chemistry Raw Data Report

Job ID: 140-36941-1

Batch: 88130  
Method: D240

Analyst Initials: TMB  
Instrument: NONE

Lab Sample ID: CCV 140-88130/1					Analysis Date: Jun 26, 2024 10:41	
Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13097.948214	Cal/g	1.0365 g	0.5 g

Lab Sample ID: CCV 140-88130/2					Analysis Date: Jun 26, 2024 10:41	
Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13199.287104	Cal/g	1.0445 g	0.5 g

Lab Sample ID: LCS 140-88130/3					Analysis Date: Jun 26, 2024 10:41	
Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11596.340438	Cal/g	0.5120 g	0.5 g

Lab Sample ID: LCSD 140-88130/4					Analysis Date: Jun 26, 2024 10:41	
Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11803.219774	Cal/g	0.5172 g	0.5 g

Lab Sample ID: 140-36928-A-5 DU					Analysis Date: Jun 26, 2024 10:54	
Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	10243.623242	Cal/g	0.5435 g	0.5 g

Lab Sample ID: 140-36941-A-1					Analysis Date: Jun 26, 2024 10:55	
Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	118.801426	Cal/g	0.5304 g	0.5 g

**TestAmerica Knoxville**  
**Calorimeter Calibration Worksheet**  
**Determination of Energy Equivalent (EE)**  
**per SOP KNOX-WC-0010**

***Initial Calibration Data***

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	Mean EE (cal/°C)	SD EE (cal/°C)	%RSD (%)
<b><i>BOMB ID=1</i></b>					
CCV-061024-1a	06/10/24	2412.6800	2381.6060	15.8	0.66%
CCV-061024-1b	06/10/24	2396.8300			
CCV-061124-1	06/11/24	2382.9800			
CCV-061724-1	06/17/24	2360.0100			
CCV-061824-1	06/18/24	2379.9800			
CCV-061924-1	06/19/24	2378.7000			
CCV-062024-1	06/20/24	2386.7200			
CCV-062424-1a	06/24/24	2361.9400			
CCV-062424-1b	06/24/24	2386.1100			
CCV-062624-1	06/26/24	2370.1100			

***Daily Calibration Check Standard***

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	ICAL Mean EE (cal/°C)	%D (%)
CCV-062624-1	06/26/24	2370.1100	2381.6060	0.5%

**TestAmerica Laboratories**  
**Bomb Calorimeter Data Worksheet**  
**Measurement of Heat of Combustion**  
**per SOP KNOX-WC-0010**

**Sample ID:** CCV-062624-1  
**Work Order Number:** NA  
**Analysis Date:** 06/26/2024  
**Std. or Determination?** STD  
**Analyst:** TMB

**Gross Heat of Combustion (cal/g):** NA  
**Gross Heat of Combustion (Btu/lb):** NA

***Bomb Calorimeter Data Report***

ID:	4758	06/26/24	10:25:52	
Mod	Dynamic Type		Final	
Standardization Bomb ID			1	
Temp	23.0456	EE Value	2370.11	
T	30.0026	Temp. Rise	2.7737	
Weight	1.03650	Spike Wght	0.00000	
	15.0000	Acid	10.0000	
Sulfur	0.00000			
		Gross Heat	11428.5	

TMB  
4126124

### Initial Calibration Data

### Daily Calibration Check Standard

Calorimeter Calibration Worksheet 06262024-C06W.DOC Calorimeter Calibration Worksheet Rev 0.xlt



**TestAmerica Laboratories**  
**Bomb Calorimeter Data Worksheet**  
**Measurement of Heat of Combustion**  
**per SOP KNOX-WC-0010**

Sample ID: CCV-062624-4  
 Work Order Number: NA  
 Analysis Date: 06/26/2024  
 Std. or Determination? STD  
 Analyst: TMB

Gross Heat of Combustion (cal/g): NA  
 Gross Heat of Combustion (Btu/lb): NA

***Bomb Calorimeter Data Report***

Parr 6200 Calorimeter Rev. 190314104420			
Sample ID:	4759	06/26/24	10:33:25
Method	Dynamic Type	Final	
Standardization Bomb ID			4
Init. Temp	24.0047	EE Value	2397.28
Ignit T	30.0040	Temp. Rise	2.7634
Spike	1.04450	Spike Wght	0.00000
Fuse	15.0000	Acid	10.0000
Sulfur	0.00000		
	Gross Heat		11418.3

TMB  
06/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4760 06/26/24 10:52:59

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 24.9329 EE Value 2381.61

Jacket T 30.1768 Temp. Rise 2.5579

Weight 0.51200 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21329.3

Btu/lb

TMB  
6/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4763 06/26/24 11:30:49

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 25.9085 EE Value 2381.61

Jacket T 30.0034 Temp. Rise 3.1107

Weight 0.56480 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 23531.0

Btu/lb

TMB  
6/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4761 06/26/24 11:01:19

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 25.5734 EE Value 2406.77

Jacket T 29.8970 Temp. Rise 2.5731

Weight 0.51720 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21465.8

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4764 06/26/24 12:23:10

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 24.3526 EE Value 2406.77

Jacket T 30.0014 Temp. Rise 3.1792

Weight 0.56690 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 24215.7

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420  
 Sample ID: 4765 06/26/24 12:31:57  
 Method Dynamic Type Preliminary  
 Mode Determination Bomb ID 1  
 Init. Temp 25.3743 EE Value 2381.61  
 Jacket T 30.0029 Temp. Rise 2.0522  
 Weight 0.69700 Spike Wght 0.00000  
 Fuse 15.0000 Acid 10.0000  
 Sulfur 0.00000

Gross Heat 12557.5  
 Btu/lb

TMB  
 6/26/24

Parr 6200 Calorimeter Rev. 190314104420  
 Sample ID: 4767 06/26/24 12:55:02  
 Method Dynamic Type Preliminary  
 Mode Determination Bomb ID 1  
 Init. Temp 25.9558 EE Value 2381.61  
 Jacket T 30.0051 Temp. Rise 2.8185  
 Weight 0.59170 Spike Wght 0.00000  
 Fuse 15.0000 Acid 10.0000  
 Sulfur 0.00000

Gross Heat 20344.1  
 Btu/lb

TMB  
 6/26/24

Parr 6200 Calorimeter Rev. 190314104420  
 Sample ID: 4766 06/26/24 12:42:13  
 Method Dynamic Type Preliminary  
 Mode Determination Bomb ID 4  
 Init. Temp 26.6351 EE Value 2406.77  
 Jacket T 29.9847 Temp. Rise 2.6501  
 Weight 0.54000 Spike Wght 0.00000  
 Fuse 15.0000 Acid 10.0000  
 Sulfur 0.00000

Gross Heat 21177.2  
 Btu/lb

Parr 6200 Calorimeter Rev. 190314104420  
 Sample ID: 4768 06/26/24 13:08:36  
 Method Dynamic Type Preliminary  
 Mode Determination Bomb ID 4  
 Init. Temp 27.2027 EE Value 2406.77  
 Jacket T 30.0028 Temp. Rise 2.7068  
 Weight 0.59430 Spike Wght 0.00000  
 Fuse 15.0000 Acid 10.0000  
 Sulfur 0.00000

Gross Heat 19655.8  
 Btu/lb

TMB  
 6/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4769 06/26/24 13:17:52

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 27.1025 EE Value 2381.61

Jacket T 30.0035 Temp. Rise 2.9103

Weight 0.59250 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20981.0

Btu/lb

TMB  
6/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4771 06/26/24 13:36:23

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 28.4805 EE Value 2381.61

Jacket T 30.0024 Temp. Rise 2.8783

Weight 0.56210 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21871.3

Btu/lb

TMB  
6/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4770 06/26/24 13:26:36

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 28.3526 EE Value 2406.77

Jacket T 30.0009 Temp. Rise 2.8933

Weight 0.59460 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21004.4

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4772 06/26/24 13:47:11

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 29.4487 EE Value 2406.77

Jacket T 30.0030 Temp. Rise 2.8692

Weight 0.63760 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19424.0

Btu/lb

TMB  
6/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4773 06/26/24 13:55:36

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 29.5336 EE Value 2381.61

Jacket T 30.0041 Temp. Rise 2.9291

Weight 0.58460 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21401.9

Btu/lb

TMB  
6/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4775 06/26/24 14:13:01

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 30.6170 EE Value 2381.61

Jacket T 30.0037 Temp. Rise 3.0893

Weight 0.51630 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25563.8

Btu/lb

TMB  
6/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4774 06/26/24 14:04:31

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 30.4205 EE Value 2406.77

Jacket T 30.0033 Temp. Rise 2.8212

Weight 0.57090 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21329.7

Btu/lb

TMB  
6/26/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4776 06/26/24 14:24:47

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 30.7028 EE Value 2406.77

Jacket T 30.0188 Temp. Rise 3.0950

Weight 0.52040 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25678.9

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4777 06/27/24 07:57:29

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 19.7338 EE Value 2381.61

Jacket T 30.0056 Temp. Rise 3.2185

Weight 0.50990 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 26971.0

Btu/lb

TMB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4779 06/27/24 08:16:20

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 22.6431 EE Value 2381.61

Jacket T 30.0028 Temp. Rise 3.3879

Weight 0.50240 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 28818.5

Btu/lb

TMB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4778 06/27/24 08:06:46

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 19.8969 EE Value 2406.77

Jacket T 29.9995 Temp. Rise 3.2310

Weight 0.50950 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 27384.3

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4780 06/27/24 08:35:50

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 22.6151 EE Value 2406.77

Jacket T 30.0134 Temp. Rise 3.4518

Weight 0.51390 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 29010.7

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4781 06/27/24 08:45:03

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 24.8935 EE Value 2381.61

Jacket T 30.0029 Temp. Rise 3.5541

Weight 0.54430 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 27909.7

Btu/lb

TMB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4783 06/27/24 09:05:09

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 27.1782 EE Value 2381.61

Jacket T 30.0040 Temp. Rise 3.1271

Weight 0.50510 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 26451.7

Btu/lb

TMB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4782 06/27/24 08:53:42

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 25.5402 EE Value 2406.77

Jacket T 30.0004 Temp. Rise 3.6473

Weight 0.54350 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 28989.2

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4784 06/27/24 09:14:14

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 27.8474 EE Value 2406.77

Jacket T 30.0013 Temp. Rise 3.0281

Weight 0.51830 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 25223.2

Btu/lb

TMB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4785 06/27/24 09:57:12

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 26.6682 EE Value 2381.61

Jacket T 30.0023 Temp. Rise 3.4817

Weight 0.55020 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 27046.0

Btu/lb

TmB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4788 06/27/24 10:28:33

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 29.4287 EE Value 2381.61

Jacket T 30.0049 Temp. Rise 2.3033

Weight 0.53040 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 18531.0

Btu/lb

TmB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4786 06/27/24 10:05:59

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 26.9997 EE Value 2406.77

Jacket T 30.0003 Temp. Rise 2.7028

Weight 0.54580 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21370.3

Btu/lb



## Eurofins TestAmerica Knoxville Heat of Combustion Data Review / Narrative Checklist

Methods: ASTM D5865, D240 by SOP KNOX-WC-0010, Rev. 8

Page 1 of 1

Batch Number:	88130	Job Number(s):	140-37073, 140-36919, 140-36928, 140-36941		
Analysis Date:	6/27/2024	Analyst Name:	TMB	Method Citation	<input type="checkbox"/> D5865 <input checked="" type="checkbox"/> D240

Review Items	N/A	Y	N	If No, why is data reportable?	2nd √
<b>Section 1. Calibration</b>					
1. Was a <b>weekly</b> calibration check performed for each bomb/bucket combination and %D $\leq$ 1%?		X			X
2. Is the %D for the weekly calibration check $\leq$ 1%?		X		If not $\leq$ 1.0%, discard data and repeat.	X
3. Was the final weekly calibration successful? (%D $\leq$ 1.0%)		X			X
4. Is the initial calibration complete, with at least ten calibration runs?		X			X
5. Are the previous ten calibration runs recorded on the calorimeter calibration worksheet?		X			X
6. Does the rolling average show a %RSD $\leq$ 1.0%?		X			X
<b>Section 2. Client Sample Analysis</b>					
1. Were all special project requirements met? (Review Project Notes, Project Documents, and Comments in Backlog)		X			X
2. Were sample IDs verified?		X			X
3. Were all weights entered directly into TALS?		X			X
4. Were all transcriptions checked? (Check transcription of data from calorimeter to TALS worksheet ( $\Delta t$ , Acid Correction))		X			X
5. Were any data collected by writing the values on paper?			N		X
6. Are all written entries neat, professional, and scanned into the documents section of the TALS batch?	N/A				X
7. Calculations checked for error? (Verify that the final instrument result = calculated result on spreadsheet (to 3 significant figures))		X			X
<b>Section 3. Preparation/Matrix QC</b>					
1. LCS/LCSD done per batch of up to twenty samples?		X			X
2. LCS/LCSD recoveries within laboratory established QC limits? (98-102%)		X			X
3. LCS/LCSD RPD within laboratory established QC limits? ( $\leq$ 2.0% RPD)		X			X
4. Was a duplicate sample analyzed per batch of up to 10 samples?		X			X
5. DUP RPD $\leq$ 10.0%? If no, list ID:		X		____ [F5] OS &/or DUP < 5xRL, absolute difference < RL ____ [Option] MS/MSD/DUP-%RPD.NCM: _____	X
<b>Section 4. TALS Reporting</b>					
1. If Batch Information Complete?		X			X
2. Batch QC linked correctly?		X			X
3. Is raw data from calorimeter and calibration summary attached as a default file?		X			X
4. Are all non-conformances documented (NCM Manager)?	N/A			NCM Number(s): _____	X
5. Was appropriate narrative NCM added (NCM Create/Edit)?		X		<input checked="" type="checkbox"/> [5853]	X
6. Final report acceptable? (Results, units, analysis dates are correct. Flags and/or errors were addressed.)		X			X

Reviewed by: TMB	Date: 6/27/2024
Comments:	
2 <sup>nd</sup> Level Reviewer: DCW	Date: 6/27/24
Comments:	

# General Chemistry Raw Data Report

Job ID: 140-36941-1

**Batch: 88175**  
**Method: D240**

**Analyst Initials: TMB**  
**Instrument: NONE**

**Lab Sample ID: CCV 140-88175/1**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13295.14042	Cal/g	1.0521 g	0.5 g

**Lab Sample ID: CCV 140-88175/2**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	13388.60405	Cal/g	1.0595 g	0.5 g

**Lab Sample ID: LCS 140-88175/3**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11306.109888	Cal/g	0.5019 g	0.5 g

**Lab Sample ID: LCSD 140-88175/4**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	11487.943152	Cal/g	0.5072 g	0.5 g

**Lab Sample ID: 140-36941-A-3**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	256.455392	Cal/g	0.5146 g	0.5 g

**Lab Sample ID: 140-36941-A-5**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	365.983792	Cal/g	0.5249 g	0.5 g

**Lab Sample ID: 140-36941-A-5 DU**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	59.3788000000004	Cal/g	0.5222 g	0.5 g

**Lab Sample ID: 140-36941-A-7**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	191.807888000001	Cal/g	0.5266 g	0.5 g

**Lab Sample ID: 140-36941-A-9**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	234.841584	Cal/g	0.5313 g	0.5 g

**Lab Sample ID: 140-36941-A-10**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	206.557008	Cal/g	0.5366 g	0.5 g

**Lab Sample ID: 140-36941-A-11**

**Analysis Date: Jun 27, 2024 10:39**

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	204.88	Cal/g	0.5246 g	0.5 g

Eurofins Knoxville

General Chemistry Raw Data Report

Job ID: 140-36941-1

Batch: 88175 (Continued)  
Method: D240

Analyst Initials: TMB  
Instrument: NONE

Lab Sample ID: 140-36941-A-13

Analysis Date: Jun 27, 2024 10:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	774.340352000002	Cal/g	0.5344 g	0.5 g

Lab Sample ID: 140-36941-A-15

Analysis Date: Jun 27, 2024 10:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	7183.007728	Cal/g	0.5450 g	0.5 g

Lab Sample ID: 140-36941-A-17

Analysis Date: Jun 27, 2024 10:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6955.892832	Cal/g	0.5295 g	0.5 g

Lab Sample ID: 140-36941-A-19

Analysis Date: Jun 27, 2024 10:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6922.023952	Cal/g	0.5296 g	0.5 g

Lab Sample ID: 140-36941-A-19 DU

Analysis Date: Jun 27, 2024 10:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6909.64376	Cal/g	0.5268 g	0.5 g

Lab Sample ID: 140-36941-A-21

Analysis Date: Jun 27, 2024 10:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6945.702464	Cal/g	0.5364 g	0.5 g

Lab Sample ID: 140-36941-A-23

Analysis Date: Jun 27, 2024 10:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6874.766464	Cal/g	0.5306 g	0.5 g

Lab Sample ID: 140-36941-A-24

Analysis Date: Jun 27, 2024 10:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6718.793792	Cal/g	0.5260 g	0.5 g

Lab Sample ID: 140-36941-A-25

Analysis Date: Jun 27, 2024 10:39

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6740.316928	Cal/g	0.5239 g	0.5 g

Lab Sample ID: 140-36941-A-27

Analysis Date: Jun 27, 2024 10:40

Analyte	Detector	Dilution	Raw Result	Unit	Initial Amount	Final Amount
Gross Calorific Value	None	1	6616.993536	Cal/g	0.5350 g	0.5 g

**TestAmerica Knoxville**  
**Calorimeter Calibration Worksheet**  
**Determination of Energy Equivalent (EE)**  
**per SOP KNOX-WC-0010**

***Initial Calibration Data***

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	Mean EE (cal/°C)	SD EE (cal/°C)	%RSD (%)
<b><i>BOMB ID=1</i></b>					
CCV-061024-1b	06/10/24	2396.8300	2378.5590	11.5	0.48%
CCV-061124-1	06/11/24	2382.9800			
CCV-061724-1	06/17/24	2360.0100			
CCV-061824-1	06/18/24	2379.9800			
CCV-061924-1	06/19/24	2378.7000			
CCV-062024-1	06/20/24	2386.7200			
CCV-062424-1a	06/24/24	2361.9400			
CCV-062424-1b	06/24/24	2386.1100			
CCV-062624-1	06/26/24	2370.1100			
CCV-062724-1	06/27/24	2382.2100			

***Daily Calibration Check Standard***

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	ICAL Mean EE (cal/°C)	%D (%)
CCV-062724-1	06/27/24	2382.2100	2378.5590	0.2%

**TestAmerica Laboratories**  
**Bomb Calorimeter Data Worksheet**  
**Measurement of Heat of Combustion**  
**per SOP KNOX-WC-0010**

**Sample ID:** CCV-042724-1  
**Work Order Number:** NA  
**Analysis Date:** 06/27/2024  
**Std. or Determination?** STD  
**Analyst:** TMB

**Gross Heat of Combustion (cal/g):** NA  
**Gross Heat of Combustion (Btu/lb):** NA

***Bomb Calorimeter Data Report***

Parr 62	4789	06/27/24	11:19:10	TMB 6/27/24
Method	Dynamic Type	Final		
Standardization Bomb ID		1		
Temp	27.7569 EE Value	2382.21		
Net T	30.0015 Temp. Rise	2.8010		
Weight	1.05210 Spike Wght	0.00000		
Acid	15.0000 Acid	10.0000		
Sulfur	0.00000			
Gross Heat		11355.6		
		Btu/lb		

**TestAmerica Knoxville**  
**Calorimeter Calibration Worksheet**  
**Determination of Energy Equivalent (EE)**  
**per SOP KNOX-WC-0010**

***Initial Calibration Data***

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	Mean EE (cal/°C)	SD EE (cal/°C)	%RSD (%)
<b>BOMB ID=4</b>					
CCV-061024-4b	06/10/24	2422.4000	2401.4400	11.7	0.49%
CCV-061124-4	06/11/24	2410.9000			
CCV-061724-4	06/17/24	2384.8600			
CCV-061824-4	06/18/24	2407.6600			
CCV-061924-4	06/19/24	2402.2200			
CCV-062024-4	06/20/24	2406.0800			
CCV-062424-4a	06/24/24	2383.0300			
CCV-062424-4b	06/24/24	2402.3600			
CCV-062624-4	06/26/24	2397.2800			
CCV-062724-4	06/27/24	2397.6100			

***Daily Calibration Check Standard***

Calorimeter Sample ID	Calibration Date	EE (cal/°C)	ICAL Mean EE (cal/°C)	%D (%)
CCV-062724-4	06/27/24	2397.6100	2401.4400	0.2%

**TestAmerica Laboratories**  
**Bomb Calorimeter Data Worksheet**  
**Measurement of Heat of Combustion**  
**per SOP KNOX-WC-0010**

Sample ID: CCV-062724-4  
 Work Order Number: NA  
 Analysis Date: 06/27/2024  
 Std. or Determination? STD  
 Analyst: TMB

Gross Heat of Combustion (cal/g): NA  
 Gross Heat of Combustion (Btu/lb): NA

***Bomb Calorimeter Data Report***

Parr 620	( )		
Sample ID:	4790	06/27/24	11:27:42
Method	Dynamic Type	Final	
Standardization Bomb ID		4	
Temp	25.4907 EE Value	2397.61	
Weight	30.0003 Temp. Rise	2.8025	
Weight	1.05950 Spike Wght	0.00000	
Fuse	15.0000 Acid	10.0000	
Sulfur	0.00000		
	Gross Heat	11391.3	
		Btu/lb	

*TMB*  
*06/27/24*

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4791 06/27/24 11:36:35

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 29.2795 EE Value 2378.56

Jacket T 30.0012 Temp. Rise 2.5049

Weight 0.50190 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21278.5

Btu/lb

TMB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4793 06/27/24 12:02:13

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 29.2410 EE Value 2378.56

Jacket T 30.0043 Temp. Rise 2.4341

Weight 0.51460 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20164.3

Btu/lb

TMB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4792 06/27/24 11:45:12

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 27.3593 EE Value 2401.44

Jacket T 30.0034 Temp. Rise 2.5254

Weight 0.50720 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 21434.1

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4794 06/27/24 12:15:15

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 27.7829 EE Value 2401.44

Jacket T 30.0039 Temp. Rise 2.3834

Weight 0.52490 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19542.2

Btu/lb



Parr 6200 06/27/24 12:23:30

Sample ID: 4795 06/27/24 12:23:30

Method Dynamic Type Preliminary

Termination Bomb ID 1

Temp 29.6444 EE Value 2378.56

Temp 30.0067 Temp. Rise 2.3525

0.52220 Spike Wght 0.00000

15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19201.3

TMB  
6/27/24

Parr 6200 06/27/24 13:35:55

Sample ID: 4797 06/27/24 13:35:55

Method Dynamic Type Preliminary

Termination Bomb ID 1

Temp 26.7288 EE Value 2378.56

Temp 30.0034 Temp. Rise 2.4007

0.53130 Spike Wght 0.00000

15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19261.3

TMB  
6/27/24

Parr 6200 06/27/24 13:27:09

Sample ID: 4796 06/27/24 13:27:09

Method Dynamic Type Preliminary

Termination Bomb ID 4

Temp 25.9581 EE Value 2401.44

Temp 30.0041 Temp. Rise 2.3976

0.52660 Spike Wght 0.00000

15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19595.0

TMB  
6/27/24

Parr 6200 06/27/24 14:11:44

Sample ID: 4799 06/27/24 14:11:44

Method Dynamic Type Preliminary

Termination Bomb ID 4

Temp 25.8758 EE Value 2401.44

Temp 30.0059 Temp. Rise 2.4591

0.53660 Spike Wght 0.00000

15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19725.1

TMB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4800 06/27/24 14:20:07

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 26.3116 EE Value 2378.56

Jacket T 30.0180 Temp. Rise 2.3750

Weight 0.52460 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19296.9

Btu/lb

TMB  
6/27/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4805 06/28/24 08:16:34

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 24.4860 EE Value 2378.56

Jacket T 30.0013 Temp. Rise 3.7294

Weight 0.54500 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 29214.8

Btu/lb

TMB  
6/28/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4803 06/28/24 07:55:21

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 20.6307 EE Value 2401.44

Jacket T 30.0046 Temp. Rise 2.8064

Weight 0.53440 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 22615.7

Btu/lb

TMB  
6/28/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4806 06/28/24 08:28:21

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 22.6592 EE Value 2401.44

Jacket T 30.0050 Temp. Rise 2.9539

Weight 0.52950 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 24028.9

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4807 06/28/24 08:36:20

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 27.0302 EE Value 2378.56

Jacket T 30.0041 Temp. Rise 2.9971

Weight 0.52950 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 24144.5

Btu/lb

TMB  
6/28/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4809 06/28/24 08:53:34

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 28.7067 EE Value 2378.56

Jacket T 30.0016 Temp. Rise 3.1222

Weight 0.53640 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 24836.4

Btu/lb

TMB  
6/28/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4808 06/28/24 08:45:18

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 25.0921 EE Value 2401.44

Jacket T 30.0018 Temp. Rise 3.0570

Weight 0.52680 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 24998.4

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4810 06/28/24 09:02:38

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 27.1431 EE Value 2401.44

Jacket T 30.0023 Temp. Rise 2.9603

Weight 0.53060 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 24031.8

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4811 06/28/24 09:11:22

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 30.0694 EE Value 2378.56

Jacket T 30.0911 Temp. Rise 2.9166

Weight 0.52600 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 23654.6

Btu/lb

TMB

6/28/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4813 06/28/24 09:29:51

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 31.0835 EE Value 2378.56

Jacket T 30.0048 Temp. Rise 2.9553

Weight 0.53500 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 23566.2

Btu/lb

TMB

6/28/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4812 06/28/24 09:19:18

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 28.8734 EE Value 2401.44

Jacket T 30.0068 Temp. Rise 2.8956

Weight 0.52390 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 23805.0

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4814 06/28/24 09:38:07

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 30.0011 EE Value 2401.44

Jacket T 30.1609 Temp. Rise 2.1177

Weight 0.50850 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 17913.2

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4815 06/28/24 10:06:25

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 29.8761 EE Value 2378.56

Jacket T 30.0029 Temp. Rise 2.4592

Weight 0.50900 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20597.2

Btu/lb

TMB  
6/28/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4817 06/28/24 10:28:06

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 30.2668 EE Value 2378.56

Jacket T 30.0053 Temp. Rise 2.5555

Weight 0.56930 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19139.8

Btu/lb

TMB  
6/28/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4816 06/28/24 10:17:19

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 28.4542 EE Value 2401.44

Jacket T 30.0006 Temp. Rise 2.5020

Weight 0.53270 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 20218.0

Btu/lb

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4818 06/28/24 10:39:49

Method Dynamic Type Preliminary

Mode Determination Bomb ID 4

Init. Temp 28.9637 EE Value 2401.44

Jacket T 29.9999 Temp. Rise 2.5821

Weight 0.56280 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19752.0

Btu/lb

TMB  
6/28/24

Parr 6200 Calorimeter Rev. 190314104420

Sample ID: 4819 06/28/24 10:51:21

Method Dynamic Type Preliminary

Mode Determination Bomb ID 1

Init. Temp 30.2064 EE Value 2378.56

Jacket T 30.0017 Temp. Rise 2.5724

Weight 0.55080 Spike Wght 0.00000

Fuse 15.0000 Acid 10.0000

Sulfur 0.00000

Gross Heat 19913.7

Btu/lb

TMB  
6/28/24

## Eurofins TestAmerica Knoxville Heat of Combustion Data Review / Narrative Checklist

Methods: ASTM D5865, D240 by SOP KNOX-WC-0010, Rev. 8

Page 1 of 1

Batch Number:	88175	Job Number(s):	140-36941, 140-36956		
Analysis Date:	6/28/2024	Analyst Name:	TMB	Method Citation	<input type="checkbox"/> D5865 <input checked="" type="checkbox"/> D240

Review Items	N/A	Y	N	If No, why is data reportable?	2nd √
<b>Section 1. Calibration</b>					
1. Was a <b>weekly</b> calibration check performed for each bomb/bucket combination and %D ≤ 1%?		X			X
2. Is the %D for the weekly calibration check ≤1%?		X		If not ≤1.0%, discard data and repeat.	X
3. Was the final weekly calibration successful? (%D ≤1.0%)		X			X
4. Is the initial calibration complete, with at least ten calibration runs?		X			X
5. Are the previous ten calibration runs recorded on the calorimeter calibration worksheet?		X			X
6. Does the rolling average show a %RSD ≤1.0%?		X			X
<b>Section 2. Client Sample Analysis</b>					
1. Were all special project requirements met? (Review Project Notes, Project Documents, and Comments in Backlog)		X			X
2. Were sample IDs verified?		X			X
3. Were all weights entered directly into TALS?		X			X
4. Were all transcriptions checked? (Check transcription of data from calorimeter to TALS worksheet (Δt, Acid Correction)		X			X
5. Were any data collected by writing the values on paper?			N		X
6. Are all written entries neat, professional, and scanned into the documents section of the TALS batch?	N/A				X
7. Calculations checked for error? (Verify that the final instrument result = calculated result on spreadsheet (to 3 significant figures))		X			X
<b>Section 3. Preparation/Matrix QC</b>					
1. LCS/LCSD done per batch of up to twenty samples?		X			X
2. LCS/LCSD recoveries within laboratory established QC limits? (98-102%)		X			X
3. LCS/LCSD RPD within laboratory established QC limits?(≤2.0% RPD)		X			X
4. Was a duplicate sample analyzed per batch of up to 10 samples?		X			X
5. DUP RPD ≤10.0%? If no, list ID:		X		____ [F5] OS &/or DUP < 5xRL, absolute difference <RL ____ [Option] MS/MSD/DUP-%RPD.NCM:_____	X
<b>Section 4. TALS Reporting</b>					
1. If Batch Information Complete?		X			X
2. Batch QC linked correctly?		X			X
3. Is raw data from calorimeter and calibration summary attached as a default file?		X			X
4. Are all non-conformances documented (NCM Manager)?	N/A			NCM Number(s): _____	X
5. Was appropriate narrative NCM added (NCM Create/Edit)?		X		<input checked="" type="checkbox"/> [5853]	X
6. Final report acceptable? (Results, units, analysis dates are correct. Flags and/or errors were addressed.)		X			X

Reviewed by: TMB	Date: 6/28/2024
Comments:	
2 <sup>nd</sup> Level Reviewer: DCW	Date: 6/28/24
Comments:	

# Shipping and Receiving Documents



Acid Waste

'old Back-ups except Run 5 Dup

TestAmerica Knoxville  
5815 Middlebrook Pike

Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.584.4315



140-36941 Chain of Custody

Lab Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: ☐

Project Manager: Jason Myers  
Tel/Fax: \_\_\_\_\_  
Analysis Turnaround Time  
☐ CALENDAR DAYS ☐ WORKING DAYS  
TAT if different from Below  
☐ 2 weeks  
☐ 1 week  
☐ 2 days  
☐ 1 day

Client Contact  
AST Office: HOU  
Address: 5757 Genon Red Bluff Road  
City/State/Zip: Pasadena TX 77507  
Phone: \_\_\_\_\_  
HOUreports@stacktest.com  
Project Name: BASF 24-2250  
Site: Freeport, TX  
PO# \_\_\_\_\_

Sample Date	Sample Time	Sample Type (or Comp. or Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Lab Contact:	Site Contact:	Carrier:	Date:	COC No. of COCs	Sampler:	For Lab Use Only: Walk-In Client: Lab Sampling:	Job / SDG No.:	Sample Specific Notes:
5/15/24	09:13	Waste Feed #1 Acid - Run 1A		1			ASTM D240								Highest Heating Value
5/15/24	09:13	Waste Feed #1 Acid - Run 1B		1											"
5/15/24	14:02	Waste Feed #1 Acid - Run 2A		1											"
5/15/24	14:02	Waste Feed #1 Acid - Run 2B		1											"
5/16/24	07:06	Waste Feed #1 Acid - Run 3A		1											"
5/16/24	07:06	Waste Feed #1 Acid - Run 3B		1											"
5/16/24	11:40	Waste Feed #1 Acid - Run 4A		1											"
5/16/24	11:40	Waste Feed #1 Acid - Run 4B		1											"
5/17/24	07:00	Waste Feed #1 Acid - Run 5A		1											"
5/17/24	07:00	Waste Feed #1 Acid - Run 5B-DUP		1											"

Possible Hazard Identification:  
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments section if the lab is to dispose of the sample.  
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Special Instructions/QC Requirements & Comments:  
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Relinquished by: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_  
Relinquished by: \_\_\_\_\_  
Custody Seal No.: \_\_\_\_\_  
Company: \_\_\_\_\_  
Date/Time: 5/29/24 1445  
Company: ETA KNOX  
Date/Time: 5-30-24 1900  
Company: ETA KNOX  
Date/Time: \_\_\_\_\_

# COPYRIGHT RECORD

[illegible]

M.H. ZADERHAGEN/ENVIRONMENTAL TOXICOLOGY

Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.291.3001

phone 865.291.3000 fax 865.584.4315

Regulatory Program: ☐ DW ☐ NDEES ☐ DORA ☐ Other:

TestAmerica Laboratories, Inc.

[illegible]

Form No. GA-C-WI-002, Rev. 4.11, dated 1/24/2017

Residue waste Hold Back vps except Run 5-24

TestAmerica Knoxville  
5815 Middlebrook Pike

Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.584.4315  
Regulatory Program: ☐ DOW ☐ NPDES ☐ RCRA ☐ Other: ☐

Client Contact  
Alliance Source Testing AST Office: HOU  
Address: 5/57 Gentry Red Bluff Road  
City/State/Zip: Pasadena TX 77507  
256-351-0121 Phone  
HOUreports@stacktest.com  
Project Name: BASF 24-2250  
Site: Freeport, TX  
PO #

Tell/Fax: \_\_\_\_\_  
Project Manager: Jason Myers  
Analysis Turnaround Time  
☐ CALENDAR DAYS ☐ WORKING DAYS  
TAT if different from Below:  
☐ 2 weeks  
☐ 1 week  
☐ 2 days  
☐ 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, G-Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		ASTM D340	Hold	Date:	Critic:	COC No. of COCs
						Y	N	Y	N					
Waste Feed #2 Residue - Run 1A	5/15/24	09:13			1									
Waste Feed #2 Residue - Run 1B	5/15/24	09:13			1						X			
Waste Feed #2 Residue - Run 2A	5/15/24	14:02			1									
Waste Feed #2 Residue - Run 2B	5/15/24	14:02			1						X			
Waste Feed #2 Residue - Run 3A	5/16/24	07:06			1									
Waste Feed #2 Residue - Run 3B	5/16/24	07:06			1						X			
Waste Feed #2 Residue - Run 4A	5/16/24	11:40			1									
Waste Feed #2 Residue - Run 4B	5/16/24	11:40			1						X			
Waste Feed #2 Residue - Run 5A	5/17/24	07:00			1									
Waste Feed #2 Residue - Run 5B-DUP	5/17/24	07:00			1									

Preservation: ☐ Ice ☐ Dry ☐ Room Temp ☐ Other: \_\_\_\_\_  
Possible Hazard Identification: \_\_\_\_\_  
Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
☐ Acetone ☐ Benzene ☐ Butane ☐ Gas ☐ Inert ☐ Non-hazardous ☐ Other: \_\_\_\_\_

Special Instructions/QC Requirements & Comments: \_\_\_\_\_

Chain of Custody Seal No.: \_\_\_\_\_  
Custody Seal Intact: ☐ Yes ☐ No  
Relinquished by: \_\_\_\_\_  
Received by: \_\_\_\_\_  
Date/Time: \_\_\_\_\_  
Company: \_\_\_\_\_  
Date/Time: \_\_\_\_\_  
Company: \_\_\_\_\_  
Date/Time: \_\_\_\_\_  
Company: \_\_\_\_\_

Residue waste

Chain of Custody Record

TestAmerica Knoxville  
5815 Middleton Pike

Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.584.4313

Regulatory Program: ☐ TOW ☐ NDES ☐ RCRA ☐ Other: ☐  
Project Manager: Jason Friess

Client Contact: AST Office: HOU  
Address: 5757 Genoa Red Bluff Road  
City/State/Zip: Pasadena TX 77507  
Phone: 256-351-0121  
HOUreports@stacktest.com  
Project Name: BASF 24-2250  
Site: Freeport, TX  
P.O.#:

Analysis Turnaround Time  
☐ CALENDAR DAYS ☐ WORKING DAYS  
TAT if different from Below: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Sample Date: 5/17/24 Sample Time: 11:36 Sample Type: (e-Cont, e-Grab) Matrix: # of Cont: 1

Sample Identification: Waste Feed #2 Residue - Run 6A

Sample Date: 5/17/24 Sample Time: 11:36 Sample Type: (e-Cont, e-Grab) Matrix: # of Cont: 1

Sample Identification: Waste Feed #2 Residue - Run 6B

Sample Date: 5/20/24 Sample Time: 10:55 Sample Type: (e-Cont, e-Grab) Matrix: # of Cont: 1

Sample Identification: Waste Feed #2 Residue - Run 7A

Sample Date: 5/20/24 Sample Time: 10:55 Sample Type: (e-Cont, e-Grab) Matrix: # of Cont: 1

Sample Identification: Waste Feed #2 Residue - Run 7B

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

Sample Date: Sample Time: Sample Type: (e-Cont, e-Grab) Matrix: # of Cont:

EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	<i>Custody seal intact</i>
2. Were ambient air containers received intact?				<input type="checkbox"/> Checked in lab	<i>Received at RT 3.5°C ± 3.6°C</i>
3. The coolers/containers custody seal if present, is it intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Yes <input type="checkbox"/> NA	<i>CAL 5-30-24 Hand delivered</i>
4. Is the cooler temperature within limits? (> freezing temp. of water to 6°C, VOST: 10°C) Thermometer ID : <u>5076</u> Correction factor: <u>+0.1°C</u>			<input checked="" type="checkbox"/>	<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	<i>10</i>
5. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	<i>13</i>
6. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	
7. Do sample container labels match COC? (IDs, Dates, Times)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	
8. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC; No Date/Time; Client Contacted	<i>Labeling Verified by: _____ Date: _____</i>
10. Was the sampler identified on the COC?		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> Sampler Not Listed on COC	
11. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
12. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC No tests on COC	<i>pH test strip lot number: _____</i>
13. Is the matrix of the samples noted?		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	
15. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Holding Time - Receipt	Box 16A: pH _____ Box 18A: Residual Chlorine _____
16. Were samples received with correct chemical preservative (excluding Encore)?			<input checked="" type="checkbox"/>	<input type="checkbox"/> pH Adjusted, pH Included (See box 16A) <input type="checkbox"/> Incorrect Preservative	Preservative: _____ Lot Number: _____ Exp Date: _____ Analyst: _____ Date: _____ Time: _____
17. Were VOA samples received without headspace?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number: _____			<input checked="" type="checkbox"/>		
19. For 1613B water samples is pH<9?			<input checked="" type="checkbox"/>	<input type="checkbox"/> If no, notify lab to adjust	
20. For rad samples was sample activity info. Provided?			<input checked="" type="checkbox"/>	<input type="checkbox"/> Project missing info	

Project #: 14007031 PM Instructions: \_\_\_\_\_

Sample Receiving Associate: CM Palmer Date: 5-31-24

---

## **Appendix E.2**

### **Stack Gas Analyses –**

### **Polycyclic Aromatic Hydrocarbons And Polychlorinated Biphenyls**



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Austin Abranovic  
Alliance Source Testing LLC  
214 Central Circle SW  
Decatur AL 35603

Generated 9/6/2024 3:53 PM Revision 1

## JOB DESCRIPTION

BASF Freeport TX - ICR M23

## JOB NUMBER

140-36940-1

## Eurofins Knoxville

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

## Authorization

Courneuf Adams

Generated  
9/6/2024 3:53 PM  
Revision 1

Authorized for release by  
Courtney M Adkins, Project Manager II  
Courtney.Adkins@et.eurofinsus.com  
865 291-3019



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# Definitions/Glossary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Qualifiers

### Dioxin

Qualifier	Qualifier Description
*5-	Isotope dilution analyte is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
C	The compound co-eluted with other compounds
C129	The compound co-eluted with PCB-129
C156	The compound co-eluted with PCB-156
C20	The compound co-eluted with PCB-20
C90	The compound co-eluted with PCB-90
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
S	Ion suppression

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Method Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Method	Method Description	Protocol	Laboratory
23	Chlorinated Biphenyl Congeners (Stationary Source)	EPA	EET KNX
23	Polycyclic Aromatic Hydrocarbons (Stationary Source)	EPA	EET KNX
Combined Prep	Extraction, Source Air Samples (Combined)	None	EET KNX
Dilution	Dilution and Re-fortification of Standards	None	EET KNX
Split	Source Air Split	None	EET KNX

### Protocol References:

EPA = US Environmental Protection Agency  
None = None

### Laboratory References:

EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

# Sample Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Air	05/15/24 13:45	05/30/24 19:00
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Air	05/15/24 18:45	05/30/24 19:00
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Air	05/16/24 11:45	05/30/24 19:00
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Air	05/16/24 17:00	05/30/24 19:00
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Air	05/17/24 12:30	05/30/24 19:00
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Air	05/17/24 16:30	05/30/24 19:00
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Air	05/20/24 15:30	05/30/24 19:00
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINE	Air	05/15/24 10:00	05/30/24 19:00
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTEF	Air	05/15/24 00:00	05/30/24 19:00

**Job Narrative**  
**140-36940-1**

**Revision**

The report being provided is a revision of the original report sent on 7/30/2024. The report (revision 1) is being revised due to: being revised to include a table with isotope dilution corrections for the field surrogates.

**Receipt**

The samples were received on 5/30/2024 7:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.8° C, 20.1° C and 20.1° C.

**Receipt Exceptions**

The Field Sampler was not listed on the Chain of Custody.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sample matrix not listed.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): M23 - EPN 4-1/IN-701-RUN 5-COMBINED (140-36940-5). Back half solvent rinse and water rinse labeled as run 6, matched by collection time.

The Chain of Custody was received without any analyses selected. No analysis listed on COC for filter fractions.

**High-Res**

The Pre-Sampling Adsorbent Standards and Pre-Extraction Filter Recovery Standard for the PAH analysis were not quantitated by isotope dilution technique, but rather by internal standards that were added after extraction & concentration. These standards were removed from the final report forms. The recoveries were recalculated by isotope dilution technique outside the LIMS system and are presented in a table in the narrative. The target analytes were quantitated by isotope dilution technique.

Sample #	13C6-Benzo(c)fluorene	13C12-Benzo(j)fluoranthene	Anthracene-d10
1	116	102	27
2	113	104	2
3	107	65	99
4	diluted out		
5	118	74	75
6	118	46	85
7	127	63	87
8	53	97	47

The EPA Method 23 states to quantitate the sample results against the continuing calibration verification. Knoxville's approach is to quantitate the sample results against the initial calibration, consistent with other Hi-Res methodology.

The reporting limit (RL) and method detection limit (MDL) for the PAH analytes have not been established. The MDL is set equal to the RL. The reporting limit is supported by the initial calibration.

The Pre-Extraction Filter Surrogate, PCB-159L, was not spiked onto the filter due to unavailability of the standard when the extraction started.

Method 23: One or more Isotope Dilution Analyte (IDA) recoveries associated with the following sample are below the method recommended limit: M23 - EPN 4-1/IN-701-RUN 7-COMBINED (140-36940-7). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

Method 23: The method blank for preparation batch 140-87620 and 140-87906 contained Phenanthrene above the reporting limit (RL). The entire sample was consumed during analysis or extraction, therefore, the data have been reported.

Method 23: The PAH field surrogate and filter surrogate are not reported due to the high dilution required to bring analytes within calibration range. These surrogates are diluted out M23 - EPN 4-1/IN-701-RUN 4-COMBINED (140-36940-4).

Method 23: Although the sample extraction time was met, EPA Method EPA\_23\_PAH samples, M23 - EPN 4-1/IN-701-RUN 4-COMBINED (140-36940-4) were analyzed outside the extraction holding time (40 days). The extracts were stored frozen, which extends the holding time to one year. There is no holding time violation and no impact on the data quality.

Method 23: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED (140-36940-8) . The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method 23: Filter surrogate Anthracene-d10 or field surrogate 13C12-Benzo(j)fluoranthene was below QC limits, even after recalculating against its respective IDA for the following samples. See the recoveries in the table in the narrative.

M23 - EPN 4-1/IN-701-RUN 1-COMBINED (140-36940-1), M23 - EPN 4-1/IN-701-RUN 2-COMBINED (140-36940-2) and M23 - EPN 4-1/IN-701-RUN 3-COMBINED (140-36940-3)

Method 23: Field surrogate 13C12-Benzo(j)fluoranthene is below QC limits even after recalculating vs its respective IDA for the following samples. See the recoveries in the table in the narrative.

M23 - EPN 4-1/IN-701-RUN 7-COMBINED (140-36940-7)

Method 23: Field surrogate 13C12-Benzo(j)fluoranthene was below QC limits for the following sample, even after requantitating vs its respective IDA. The recoveries can be found in the table in the narrative.

M23 - EPN 4-1/IN-701-RUN 6-COMBINED (140-36940-6)

Method 23: Filter surrogate Anthracene-d10 and field surrogate 13C6-Benzo(c)fluorene was below QC limits even after requantitating against its respective IDA for the following sample. Surrogate recoveries can be found in a table in the narrative.

M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED (140-36940-8)

Method 23: The opening PAH Continuing Calibration Verification, (CCV 140-88872/1) was slightly outside QC limits for one or more Isotope Dilution Analyte (IDA) recoveries. All target analyte recoveries are in QC limits. After discussion with the project manager, it was decided to report the data with narration.

Method 23: The opening PAH Continuing Calibration Verification, (CCV 140-88812/1) was slightly outside QC limits for one or more Isotope Dilution Analyte (IDA) recoveries. All target analyte recoveries are in QC limits. After discussion with the project manager, it was decided to report the data with narration.

Method 23: The opening PAH Continuing Calibration Verification, (CCV 140-88831/1) was slightly outside QC limits for one or more Isotope Dilution Analyte (IDA) recoveries. All target analyte recoveries are in QC limits. After discussion with the project manager, it was decided to report the data with narration.

Method 23: One or more Isotope Dilution Analyte (IDA) recoveries associated with the following samples are below the method recommended limit: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER (140-36940-14). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s).

Method 23: One or more ion abundance ratios are outside criteria for a labeled surrogate associated with the following samples: M23 - EPN 4-1/IN-701-RUN 5-COMBINED (140-36940-5) and M23 - EPN 4-1/IN-701-RUN 6-COMBINED (140-36940-6).

Method 23: The required dilution factor for the following sample was higher than could be achieved by "in vial" dilution, as it would dilute out the Isotope Dilution Analytes (IDA): M23 - EPN 4-1/IN-701-RUN 4-COMBINED (140-36940-4). As such, the dilution was achieved by taking a subsample of the undiluted extract, adding sufficient solvent, and re-spiking the extract with IDA. This samples was analyzed undiluted and at a 20X dilution prior to the post dilution spike being required. These analyses produce no usable results due to extreme matrix interferences.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

PAH Filter Surrogate Anthracene-d10 was spiked 10 x lower than the method requirement. Recoveries were calculated based on the amount spiked.

Method Split: The following samples required a Gel-Permeation clean up, via EPA method 3640A, to reduce matrix interference: M23 - EPN 4-1/IN-701-RUN 1-COMBINED (140-36940-1), M23 - EPN 4-1/IN-701-RUN 2-COMBINED (140-36940-2), M23 - EPN 4-1/IN-701-RUN 3-COMBINED (140-36940-3), M23 - EPN 4-1/IN-701-RUN 4-COMBINED (140-36940-4), M23 - EPN 4-1/IN-701-RUN 5-COMBINED (140-36940-5), M23 - EPN 4-1/IN-701-RUN 6-COMBINED (140-36940-6), M23 - EPN 4-1/IN-701-RUN 7-COMBINED (140-36940-7), M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED (140-36940-8) and A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER (140-36940-14).

Method Split: During final concentration, this sample turned yellow and developed strange characteristics. The sample concentrated normally until slightly less than 1 mL, including recovery standard. At this point, concentration on the N-Evap with only nitrogen slowed to a near halt. The N-Evap bath was used, at hexane temperature, to aid in concentration. After several cumulative hours of both nitrogen only and nitrogen with bath concentration, the sample fully stopped concentrating at slightly above 0.5 mL.

In the bath, the sample looked clear yellow, but upon sitting out of the bath for a few minutes the sample turned extremely cloudy. After sitting out even longer, the sample solidified and when inverted multiple times became a viscous liquid.

M23 - EPN 4-1/IN-701-RUN 4-COMBINED (140-36940-4)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



# QC Association Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Specialty Organics

### Prep Batch: 87620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Total/NA	Air	Combined Prep	
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Total/NA	Air	Combined Prep	
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Total/NA	Air	Combined Prep	
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Total/NA	Air	Combined Prep	
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Total/NA	Air	Combined Prep	
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Total/NA	Air	Combined Prep	
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Total/NA	Air	Combined Prep	
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINEI	Total/NA	Air	Combined Prep	
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	Combined Prep	
MB 140-87620/21-B	Method Blank	Total/NA	Air	Combined Prep	
LCS 140-87620/19-B	Lab Control Sample	Total/NA	Air	Combined Prep	
LCSD 140-87620/20-B	Lab Control Sample Dup	Total/NA	Air	Combined Prep	

### Prep Batch: 87624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Total/NA	Air	Combined Prep	
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Total/NA	Air	Combined Prep	
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Total/NA	Air	Combined Prep	
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Total/NA	Air	Combined Prep	
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Total/NA	Air	Combined Prep	
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Total/NA	Air	Combined Prep	
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Total/NA	Air	Combined Prep	
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINEI	Total/NA	Air	Combined Prep	
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	Combined Prep	
MB 140-87624/21-B	Method Blank	Total/NA	Air	Combined Prep	
LCS 140-87624/19-B	Lab Control Sample	Total/NA	Air	Combined Prep	
LCSD 140-87624/20-B	Lab Control Sample Dup	Total/NA	Air	Combined Prep	

### Cleanup Batch: 87905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Total/NA	Air	Split	87624
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Total/NA	Air	Split	87624
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Total/NA	Air	Split	87624
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Total/NA	Air	Split	87624
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Total/NA	Air	Split	87624
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Total/NA	Air	Split	87624
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Total/NA	Air	Split	87624
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINEI	Total/NA	Air	Split	87624
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	Split	87624
MB 140-87624/21-B	Method Blank	Total/NA	Air	Split	87624
LCS 140-87624/19-B	Lab Control Sample	Total/NA	Air	Split	87624
LCSD 140-87624/20-B	Lab Control Sample Dup	Total/NA	Air	Split	87624

### Cleanup Batch: 87906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Total/NA	Air	Split	87620
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Total/NA	Air	Split	87620
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Total/NA	Air	Split	87620
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Total/NA	Air	Split	87620
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Total/NA	Air	Split	87620
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Total/NA	Air	Split	87620

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# QC Association Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Specialty Organics (Continued)

### Cleanup Batch: 87906 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Total/NA	Air	Split	87620
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINEI	Total/NA	Air	Split	87620
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	Split	87620
MB 140-87620/21-B	Method Blank	Total/NA	Air	Split	87620
LCS 140-87620/19-B	Lab Control Sample	Total/NA	Air	Split	87620
LCSD 140-87620/20-B	Lab Control Sample Dup	Total/NA	Air	Split	87620

### Analysis Batch: 88205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Total/NA	Air	23	87905
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Total/NA	Air	23	87905
MB 140-87624/21-B	Method Blank	Total/NA	Air	23	87905
LCS 140-87624/19-B	Lab Control Sample	Total/NA	Air	23	87905
LCSD 140-87624/20-B	Lab Control Sample Dup	Total/NA	Air	23	87905

### Analysis Batch: 88219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Total/NA	Air	23	87905
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Total/NA	Air	23	87905
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Total/NA	Air	23	87905
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Total/NA	Air	23	87905
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	23	87905

### Analysis Batch: 88242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINEI	Total/NA	Air	23	87905

### Dilution Batch: 88321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Total/NA	Air	Dilution	87905

### Analysis Batch: 88362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Total/NA	Air	23	88321

### Analysis Batch: 88561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 140-87620/21-B	Method Blank	Total/NA	Air	23	87906
LCS 140-87620/19-B	Lab Control Sample	Total/NA	Air	23	87906
LCSD 140-87620/20-B	Lab Control Sample Dup	Total/NA	Air	23	87906

### Analysis Batch: 88812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Total/NA	Air	23	87906
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Total/NA	Air	23	87906
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Total/NA	Air	23	87906

### Analysis Batch: 88831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Total/NA	Air	23	87906
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Total/NA	Air	23	87906

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# QC Association Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Specialty Organics (Continued)

### Analysis Batch: 88831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Total/NA	Air	23	87906
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTEF	Total/NA	Air	23	87906

### Analysis Batch: 88872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINEI	Total/NA	Air	23	87906

### Analysis Batch: 88945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Total/NA	Air	23	87906

### Dilution Batch: 89047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Total/NA	Air	Dilution	87906

### Analysis Batch: 89185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Total/NA	Air	23	89047

### Analysis Batch: 89271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Total/NA	Air	23	87906

# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED

Lab Sample ID: 140-36940-1

Date Collected: 05/15/24 13:45

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	1.17	B	0.600	0.132	0.0247	ng/Sample		06/28/24 04:00	1
PCB-18	0.360	J S C B	0.600	0.285	0.00435	ng/Sample		06/28/24 04:00	1
PCB-28	0.610	C20 B	0.600	0.252	0.0115	ng/Sample		06/28/24 04:00	1
PCB-44	2.13	C	0.900	0.390	0.0170	ng/Sample		06/28/24 04:00	1
PCB-52	0.545		0.300	0.132	0.0180	ng/Sample		06/28/24 04:00	1
PCB-66	0.142	J q	0.300	0.120	0.0132	ng/Sample		06/28/24 04:00	1
PCB-77	0.0933	J	0.300	0.126	0.0154	ng/Sample		06/28/24 04:00	1
PCB-81	ND		0.300	0.0960	0.0153	ng/Sample		06/28/24 04:00	1
PCB-101	0.182	J C90	0.900	0.390	0.00498	ng/Sample		06/28/24 04:00	1
PCB-105	ND		0.300	0.102	0.0339	ng/Sample		06/28/24 04:00	1
PCB-114	ND		0.300	0.165	0.0352	ng/Sample		06/28/24 04:00	1
PCB-118	0.0913	J B	0.300	0.183	0.0318	ng/Sample		06/28/24 04:00	1
PCB-123	ND		0.300	0.171	0.0368	ng/Sample		06/28/24 04:00	1
PCB-126	ND		0.300	0.123	0.0382	ng/Sample		06/28/24 04:00	1
PCB-128	0.00802	J q C	0.600	0.204	0.00221	ng/Sample		06/28/24 04:00	1
PCB-138	0.0787	J C129 B	1.20	0.510	0.00229	ng/Sample		06/28/24 04:00	1
PCB-153	0.0710	J C	0.600	0.249	0.00198	ng/Sample		06/28/24 04:00	1
PCB-156	0.0117	J C	0.600	0.255	0.00242	ng/Sample		06/28/24 04:00	1
PCB-157	0.0117	J C156	0.600	0.255	0.00242	ng/Sample		06/28/24 04:00	1
PCB-167	ND		0.300	0.180	0.00154	ng/Sample		06/28/24 04:00	1
PCB-169	0.00239	J q B	0.300	0.123	0.00167	ng/Sample		06/28/24 04:00	1
PCB-170	0.0105	J	0.300	0.132	0.00140	ng/Sample		06/28/24 04:00	1
PCB-180	0.0228	J q C B	0.600	0.204	0.00106	ng/Sample		06/28/24 04:00	1
PCB-187	0.0277	J q	0.300	0.126	0.00112	ng/Sample		06/28/24 04:00	1
PCB-189	ND		0.300	0.147	0.00504	ng/Sample		06/28/24 04:00	1
PCB-195	ND		0.300	0.159	0.00251	ng/Sample		06/28/24 04:00	1
PCB-206	ND		0.300	0.171	0.0330	ng/Sample		06/28/24 04:00	1
PCB-209	ND		0.300	0.138	0.00168	ng/Sample		06/28/24 04:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	49		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-3L	77		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-4L	58		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-15L	77		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-19L	83		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-37L	84		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-54L	121		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-77L	82		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-81L	85		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-104L	85		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-105L	86		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-114L	84		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-118L	86		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-123L	84		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-126L	87		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-155L	85		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-156L	88 C		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-157L	88 C156		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-167L	89		20 - 145	06/13/24 10:44	06/28/24 04:00	1

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED

Lab Sample ID: 140-36940-1

Date Collected: 05/15/24 13:45

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	83		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-170L	84		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-188L	84		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-189L	98		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-202L	83		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-205L	89		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-206L	78		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-208L	80		20 - 145	06/13/24 10:44	06/28/24 04:00	1
PCB-209L	80		20 - 145	06/13/24 10:44	06/28/24 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	81		20 - 130	06/13/24 10:44	06/28/24 04:00	1
PCB-111L	86		20 - 130	06/13/24 10:44	06/28/24 04:00	1
PCB-178L	84		20 - 130	06/13/24 10:44	06/28/24 04:00	1
PCB-8L	90		70 - 130	06/13/24 10:44	06/28/24 04:00	1
PCB-79L	100		70 - 130	06/13/24 10:44	06/28/24 04:00	1
PCB-95L	104		70 - 130	06/13/24 10:44	06/28/24 04:00	1
PCB-153L	90		70 - 130	06/13/24 10:44	06/28/24 04:00	1

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	2190	B	750	750	2.06	ng/Sample		07/16/24 19:03	10
2-Methylnaphthalene	771	B	750	750	0.350	ng/Sample		07/16/24 19:03	10
Acenaphthylene	24.5	J B	30.0	30.0	1.11	ng/Sample		07/16/24 19:03	10
Acenaphthene	85.5	J B	300	300	1.10	ng/Sample		07/16/24 19:03	10
Fluorene	232	J B	300	300	0.482	ng/Sample		07/16/24 19:03	10
Phenanthrene	1040	B	60.0	60.0	0.868	ng/Sample		07/16/24 19:03	10
Anthracene	45.1	J	300	300	0.803	ng/Sample		07/16/24 19:03	10
Fluoranthene	167	B	60.0	60.0	0.441	ng/Sample		07/16/24 19:03	10
Pyrene	249	B	60.0	60.0	0.435	ng/Sample		07/16/24 19:03	10
Benzo[a]anthracene	3.64	J B	60.0	60.0	0.198	ng/Sample		07/16/24 19:03	10
Chrysene	44.5	J B	60.0	60.0	0.199	ng/Sample		07/16/24 19:03	10
Benzo[b]fluoranthene	15.9	J B	300	300	0.0886	ng/Sample		07/16/24 19:03	10
Benzo[k]fluoranthene	3.78	J B	60.0	60.0	0.0873	ng/Sample		07/16/24 19:03	10
Benzo[e]pyrene	69.1	B	60.0	60.0	0.0767	ng/Sample		07/16/24 19:03	10
Benzo[a]pyrene	4.66	J	30.0	30.0	0.0814	ng/Sample		07/16/24 19:03	10
Perylene	0.631	J B	30.0	30.0	0.0686	ng/Sample		07/16/24 19:03	10
Indeno[1,2,3-cd]pyrene	33.6	B	30.0	30.0	0.112	ng/Sample		07/16/24 19:03	10
Dibenz(a,h)anthracene	1.06	J B	60.0	60.0	0.0418	ng/Sample		07/16/24 19:03	10
Benzo[g,h,i]perylene	115	B	60.0	60.0	0.0976	ng/Sample		07/16/24 19:03	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	60		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-2-Methylnaphthalene	65		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Acenaphthylene	81		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Acenaphthene	83		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Fluorene	87		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Fluoranthrene	89		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C3-Pyrene	87		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Benzo(a)anthracene	73		20 - 130	06/13/24 10:30	07/16/24 19:03	10

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED**

**Lab Sample ID: 140-36940-1**

**Date Collected: 05/15/24 13:45**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

**Sample Container: Air Train**

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	77		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Benzo(b)fluoranthene	74		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Benzo(k)fluoranthene	74		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C4-Benzo(e)pyrene	67		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C4-Benzo(a)pyrene	74		20 - 130	06/13/24 10:30	07/16/24 19:03	10
Perylene-d12	74		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Indeno(1,2,3-cd)pyrene	57		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Dibenz(a,h)anthracene	63		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C12-Benzo(ghi)perylene	49		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Anthracene	67		20 - 130	06/13/24 10:30	07/16/24 19:03	10
13C6-Phenanthrene	59		20 - 130	06/13/24 10:30	07/16/24 19:03	10

# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED

Lab Sample ID: 140-36940-2

Date Collected: 05/15/24 18:45

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	1.35	B	0.600	0.132	0.0231	ng/Sample		06/28/24 05:01	1
PCB-18	0.379	J S C B	0.600	0.285	0.00472	ng/Sample		06/28/24 05:01	1
PCB-28	0.635	C20 B	0.600	0.252	0.0103	ng/Sample		06/28/24 05:01	1
PCB-44	2.69	C	0.900	0.390	0.0180	ng/Sample		06/28/24 05:01	1
PCB-52	0.554		0.300	0.132	0.0190	ng/Sample		06/28/24 05:01	1
PCB-66	0.129	J	0.300	0.120	0.0139	ng/Sample		06/28/24 05:01	1
PCB-77	0.0468	J q	0.300	0.126	0.0160	ng/Sample		06/28/24 05:01	1
PCB-81	ND		0.300	0.0960	0.0163	ng/Sample		06/28/24 05:01	1
PCB-101	0.185	J C90	0.900	0.390	0.00678	ng/Sample		06/28/24 05:01	1
PCB-105	0.0313	J	0.300	0.102	0.0110	ng/Sample		06/28/24 05:01	1
PCB-114	ND		0.300	0.165	0.0124	ng/Sample		06/28/24 05:01	1
PCB-118	0.0615	J B	0.300	0.183	0.0105	ng/Sample		06/28/24 05:01	1
PCB-123	ND		0.300	0.171	0.0131	ng/Sample		06/28/24 05:01	1
PCB-126	ND		0.300	0.123	0.0126	ng/Sample		06/28/24 05:01	1
PCB-128	0.00391	J q C	0.600	0.204	0.00191	ng/Sample		06/28/24 05:01	1
PCB-138	0.0475	J q C129 B	1.20	0.510	0.00199	ng/Sample		06/28/24 05:01	1
PCB-153	0.0544	J q C	0.600	0.249	0.00172	ng/Sample		06/28/24 05:01	1
PCB-156	0.00940	J q C	0.600	0.255	0.00211	ng/Sample		06/28/24 05:01	1
PCB-157	0.00940	J q C156	0.600	0.255	0.00211	ng/Sample		06/28/24 05:01	1
PCB-167	ND		0.300	0.180	0.00135	ng/Sample		06/28/24 05:01	1
PCB-169	0.00369	J q B	0.300	0.123	0.00141	ng/Sample		06/28/24 05:01	1
PCB-170	ND		0.300	0.132	0.000154	ng/Sample		06/28/24 05:01	1
PCB-180	0.0326	J C B	0.600	0.204	0.000123	ng/Sample		06/28/24 05:01	1
PCB-187	0.0175	J q	0.300	0.126	0.000130	ng/Sample		06/28/24 05:01	1
PCB-189	ND		0.300	0.147	0.00284	ng/Sample		06/28/24 05:01	1
PCB-195	ND		0.300	0.159	0.00236	ng/Sample		06/28/24 05:01	1
PCB-206	ND		0.300	0.171	0.0372	ng/Sample		06/28/24 05:01	1
PCB-209	0.000789	J q B	0.300	0.138	0.000470	ng/Sample		06/28/24 05:01	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	62		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-3L	87		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-4L	69		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-15L	74		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-19L	109		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-37L	90		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-54L	141		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-77L	88		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-81L	88		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-104L	87		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-105L	93		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-114L	86		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-118L	91		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-123L	85		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-126L	92		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-155L	85		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-156L	89 C		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-157L	89 C156		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-167L	88		20 - 145	06/13/24 10:44	06/28/24 05:01	1

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED

Lab Sample ID: 140-36940-2

Date Collected: 05/15/24 18:45

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	86		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-170L	91		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-188L	86		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-189L	96		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-202L	86		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-205L	90		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-206L	83		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-208L	89		20 - 145	06/13/24 10:44	06/28/24 05:01	1
PCB-209L	84		20 - 145	06/13/24 10:44	06/28/24 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	84		20 - 130	06/13/24 10:44	06/28/24 05:01	1
PCB-111L	89		20 - 130	06/13/24 10:44	06/28/24 05:01	1
PCB-178L	87		20 - 130	06/13/24 10:44	06/28/24 05:01	1
PCB-8L	88		70 - 130	06/13/24 10:44	06/28/24 05:01	1
PCB-79L	102		70 - 130	06/13/24 10:44	06/28/24 05:01	1
PCB-95L	110		70 - 130	06/13/24 10:44	06/28/24 05:01	1
PCB-153L	96		70 - 130	06/13/24 10:44	06/28/24 05:01	1

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	1840	B	750	750	2.28	ng/Sample		07/16/24 20:07	10
2-Methylnaphthalene	614	J B	750	750	0.488	ng/Sample		07/16/24 20:07	10
Acenaphthylene	12.2	J B	30.0	30.0	1.07	ng/Sample		07/16/24 20:07	10
Acenaphthene	103	J B	300	300	1.01	ng/Sample		07/16/24 20:07	10
Fluorene	235	J B	300	300	0.437	ng/Sample		07/16/24 20:07	10
Phenanthrene	1100	B	60.0	60.0	0.893	ng/Sample		07/16/24 20:07	10
Anthracene	54.6	J	300	300	0.675	ng/Sample		07/16/24 20:07	10
Fluoranthene	77.3	B	60.0	60.0	0.416	ng/Sample		07/16/24 20:07	10
Pyrene	82.0	B	60.0	60.0	0.416	ng/Sample		07/16/24 20:07	10
Benzo[a]anthracene	3.24	J B	60.0	60.0	0.253	ng/Sample		07/16/24 20:07	10
Chrysene	20.7	J B	60.0	60.0	0.237	ng/Sample		07/16/24 20:07	10
Benzo[b]fluoranthene	4.71	J B	300	300	0.111	ng/Sample		07/16/24 20:07	10
Benzo[k]fluoranthene	1.36	J B	60.0	60.0	0.103	ng/Sample		07/16/24 20:07	10
Benzo[e]pyrene	12.3	J B	60.0	60.0	0.0915	ng/Sample		07/16/24 20:07	10
Benzo[a]pyrene	2.58	J	30.0	30.0	0.0945	ng/Sample		07/16/24 20:07	10
Perylene	ND		30.0	30.0	0.0832	ng/Sample		07/16/24 20:07	10
Indeno[1,2,3-cd]pyrene	5.41	J B	30.0	30.0	0.102	ng/Sample		07/16/24 20:07	10
Dibenz(a,h)anthracene	2.10	J B	60.0	60.0	0.0544	ng/Sample		07/16/24 20:07	10
Benzo[g,h,i]perylene	19.2	J B	60.0	60.0	0.0936	ng/Sample		07/16/24 20:07	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	56		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-2-Methylnaphthalene	67		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Acenaphthylene	77		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Acenaphthene	83		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Fluorene	83		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Fluoranthrene	87		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C3-Pyrene	87		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Benzo(a)anthracene	67		20 - 130	06/13/24 10:30	07/16/24 20:07	10

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED**

**Lab Sample ID: 140-36940-2**

**Date Collected: 05/15/24 18:45**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

**Sample Container: Air Train**

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	70		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Benzo(b)fluoranthene	66		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Benzo(k)fluoranthene	68		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C4-Benzo(e)pyrene	60		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C4-Benzo(a)pyrene	65		20 - 130	06/13/24 10:30	07/16/24 20:07	10
Perylene-d12	67		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Indeno(1,2,3-cd)pyrene	41		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Dibenz(a,h)anthracene	50		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C12-Benzo(ghi)perylene	38		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Anthracene	72		20 - 130	06/13/24 10:30	07/16/24 20:07	10
13C6-Phenanthrene	56		20 - 130	06/13/24 10:30	07/16/24 20:07	10

# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED

Lab Sample ID: 140-36940-3

Date Collected: 05/16/24 11:45

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	2.21	J B	3.00	0.660	0.131	ng/Sample		06/28/24 13:48	5
PCB-18	1.14	J S C B	3.00	1.43	0.0226	ng/Sample		06/28/24 13:48	5
PCB-28	0.725	J C20 B	3.00	1.26	0.0312	ng/Sample		06/28/24 13:48	5
PCB-44	2.52	J C	4.50	1.95	0.0356	ng/Sample		06/28/24 13:48	5
PCB-52	0.643	J	1.50	0.660	0.0377	ng/Sample		06/28/24 13:48	5
PCB-66	0.176	J q	1.50	0.600	0.0275	ng/Sample		06/28/24 13:48	5
PCB-77	0.120	J	1.50	0.630	0.0318	ng/Sample		06/28/24 13:48	5
PCB-81	ND		1.50	0.480	0.0322	ng/Sample		06/28/24 13:48	5
PCB-101	0.442	J C90	4.50	1.95	0.0117	ng/Sample		06/28/24 13:48	5
PCB-105	ND		1.50	0.510	0.0579	ng/Sample		06/28/24 13:48	5
PCB-114	ND		1.50	0.825	0.0618	ng/Sample		06/28/24 13:48	5
PCB-118	ND		1.50	0.915	0.0565	ng/Sample		06/28/24 13:48	5
PCB-123	ND		1.50	0.855	0.0620	ng/Sample		06/28/24 13:48	5
PCB-126	ND		1.50	0.615	0.0642	ng/Sample		06/28/24 13:48	5
PCB-128	0.0154	J C	3.00	1.02	0.00502	ng/Sample		06/28/24 13:48	5
PCB-138	0.0445	J q C129 B	6.00	2.55	0.00521	ng/Sample		06/28/24 13:48	5
PCB-153	0.0713	J q C	3.00	1.25	0.00451	ng/Sample		06/28/24 13:48	5
PCB-156	ND	C	3.00	1.28	0.00548	ng/Sample		06/28/24 13:48	5
PCB-157	ND	C156	3.00	1.28	0.00548	ng/Sample		06/28/24 13:48	5
PCB-167	ND		1.50	0.900	0.00361	ng/Sample		06/28/24 13:48	5
PCB-169	ND		1.50	0.615	0.00368	ng/Sample		06/28/24 13:48	5
PCB-170	ND		1.50	0.660	0.00424	ng/Sample		06/28/24 13:48	5
PCB-180	0.00674	J q C B	3.00	1.02	0.00334	ng/Sample		06/28/24 13:48	5
PCB-187	0.0144	J q	1.50	0.630	0.00354	ng/Sample		06/28/24 13:48	5
PCB-189	ND		1.50	0.735	0.0195	ng/Sample		06/28/24 13:48	5
PCB-195	ND		1.50	0.795	0.00361	ng/Sample		06/28/24 13:48	5
PCB-206	ND		1.50	0.855	0.121	ng/Sample		06/28/24 13:48	5
PCB-209	ND		1.50	0.690	0.0125	ng/Sample		06/28/24 13:48	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	61		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-3L	74		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-4L	73		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-15L	89		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-19L	59		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-37L	89		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-54L	98		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-77L	88		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-81L	89		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-104L	87		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-105L	94		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-114L	90		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-118L	90		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-123L	93		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-126L	92		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-155L	87		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-156L	86	C	20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-157L	86	C156	20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-167L	84		20 - 145	06/13/24 10:44	06/28/24 13:48	5

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED

Lab Sample ID: 140-36940-3

Date Collected: 05/16/24 11:45

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	84		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-170L	91		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-188L	88		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-189L	63		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-202L	86		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-205L	89		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-206L	102		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-208L	105		20 - 145	06/13/24 10:44	06/28/24 13:48	5
PCB-209L	104		20 - 145	06/13/24 10:44	06/28/24 13:48	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	83		20 - 130	06/13/24 10:44	06/28/24 13:48	5
PCB-111L	88		20 - 130	06/13/24 10:44	06/28/24 13:48	5
PCB-178L	87		20 - 130	06/13/24 10:44	06/28/24 13:48	5
PCB-8L	99		70 - 130	06/13/24 10:44	06/28/24 13:48	5
PCB-79L	104		70 - 130	06/13/24 10:44	06/28/24 13:48	5
PCB-95L	107		70 - 130	06/13/24 10:44	06/28/24 13:48	5
PCB-153L	103		70 - 130	06/13/24 10:44	06/28/24 13:48	5

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	24900	B	1500	1500	16.6	ng/Sample		07/17/24 03:28	20
2-Methylnaphthalene	14000	B	750	750	2.75	ng/Sample		07/16/24 21:12	10
Acenaphthylene	196	B	30.0	30.0	11.7	ng/Sample		07/16/24 21:12	10
Acenaphthene	1390	B	300	300	11.0	ng/Sample		07/16/24 21:12	10
Fluorene	6930	B	300	300	2.72	ng/Sample		07/16/24 21:12	10
Phenanthrene	12800	B	60.0	60.0	5.46	ng/Sample		07/16/24 21:12	10
Anthracene	2410		300	300	5.37	ng/Sample		07/16/24 21:12	10
Fluoranthene	546	B	60.0	60.0	6.90	ng/Sample		07/16/24 21:12	10
Pyrene	915	B	60.0	60.0	6.50	ng/Sample		07/16/24 21:12	10
Benzo[a]anthracene	371	B	60.0	60.0	12.4	ng/Sample		07/16/24 21:12	10
Chrysene	576	B	60.0	60.0	12.5	ng/Sample		07/16/24 21:12	10
Benzo[b]fluoranthene	49.6	J B	300	300	0.964	ng/Sample		07/16/24 21:12	10
Benzo[k]fluoranthene	13.1	J B	60.0	60.0	0.848	ng/Sample		07/16/24 21:12	10
Benzo[e]pyrene	91.5	B	60.0	60.0	1.09	ng/Sample		07/16/24 21:12	10
Benzo[a]pyrene	33.8		30.0	30.0	0.581	ng/Sample		07/16/24 21:12	10
Perylene	9.82	J B	30.0	30.0	0.498	ng/Sample		07/16/24 21:12	10
Indeno[1,2,3-cd]pyrene	24.7	J B	30.0	30.0	0.343	ng/Sample		07/16/24 21:12	10
Dibenz(a,h)anthracene	11.3	J B	60.0	60.0	0.188	ng/Sample		07/16/24 21:12	10
Benzo[g,h,i]perylene	34.1	J B	60.0	60.0	0.333	ng/Sample		07/16/24 21:12	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	60		20 - 130	06/13/24 10:30	07/17/24 03:28	20
13C6-2-Methylnaphthalene	76		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Acenaphthylene	99		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Acenaphthene	91		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Fluorene	53		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Fluoranthrene	105		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C3-Pyrene	107		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Benzo(a)anthracene	98		20 - 130	06/13/24 10:30	07/16/24 21:12	10

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED**

**Lab Sample ID: 140-36940-3**

**Date Collected: 05/16/24 11:45**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

**Sample Container: Air Train**

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	92		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Benzo(b)fluoranthene	42		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Benzo(k)fluoranthene	43		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C4-Benzo(e)pyrene	32		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C4-Benzo(a)pyrene	60		20 - 130	06/13/24 10:30	07/16/24 21:12	10
Perylene-d12	70		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Indeno(1,2,3-cd)pyrene	76		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Dibenz(a,h)anthracene	78		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C12-Benzo(ghi)perylene	56		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Anthracene	83		20 - 130	06/13/24 10:30	07/16/24 21:12	10
13C6-Phenanthrene	75		20 - 130	06/13/24 10:30	07/16/24 21:12	10

# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED

Lab Sample ID: 140-36940-4

Date Collected: 05/16/24 17:00

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	5.65	J q	30.0	6.60	0.827	ng/Sample		07/02/24 19:57	1
PCB-18	2.21	J q C	30.0	14.3	0.141	ng/Sample		07/02/24 19:57	1
PCB-28	1.98	J q C20	30.0	12.6	0.310	ng/Sample		07/02/24 19:57	1
PCB-44	7.55	J q C	45.0	19.5	0.309	ng/Sample		07/02/24 19:57	1
PCB-52	2.31	J	15.0	6.60	0.327	ng/Sample		07/02/24 19:57	1
PCB-66	1.21	J q	15.0	6.00	0.239	ng/Sample		07/02/24 19:57	1
PCB-77	0.975	J q	15.0	6.30	0.279	ng/Sample		07/02/24 19:57	1
PCB-81	ND		15.0	4.80	0.277	ng/Sample		07/02/24 19:57	1
PCB-101	1.27	J q C90	45.0	19.5	0.111	ng/Sample		07/02/24 19:57	1
PCB-105	0.471	J q	15.0	5.10	0.182	ng/Sample		07/02/24 19:57	1
PCB-114	ND		15.0	8.25	0.202	ng/Sample		07/02/24 19:57	1
PCB-118	1.01	J	15.0	9.15	0.178	ng/Sample		07/02/24 19:57	1
PCB-123	ND		15.0	8.55	0.209	ng/Sample		07/02/24 19:57	1
PCB-126	ND		15.0	6.15	0.204	ng/Sample		07/02/24 19:57	1
PCB-128	ND C		30.0	10.2	0.00858	ng/Sample		07/02/24 19:57	1
PCB-138	0.323	J q C129	60.0	25.5	0.00891	ng/Sample		07/02/24 19:57	1
PCB-153	0.456	J C	30.0	12.5	0.00771	ng/Sample		07/02/24 19:57	1
PCB-156	ND C		30.0	12.8	0.00951	ng/Sample		07/02/24 19:57	1
PCB-157	ND C156		30.0	12.8	0.00951	ng/Sample		07/02/24 19:57	1
PCB-167	ND		15.0	9.00	0.00623	ng/Sample		07/02/24 19:57	1
PCB-169	ND		15.0	6.15	0.00609	ng/Sample		07/02/24 19:57	1
PCB-170	ND		15.0	6.60	0.0120	ng/Sample		07/02/24 19:57	1
PCB-180	ND C		30.0	10.2	0.00929	ng/Sample		07/02/24 19:57	1
PCB-187	ND		15.0	6.30	0.00985	ng/Sample		07/02/24 19:57	1
PCB-189	ND		15.0	7.35	0.134	ng/Sample		07/02/24 19:57	1
PCB-195	ND		15.0	7.95	0.0773	ng/Sample		07/02/24 19:57	1
PCB-206	ND		15.0	8.55	1.14	ng/Sample		07/02/24 19:57	1
PCB-209	ND		15.0	6.90	0.0110	ng/Sample		07/02/24 19:57	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	105		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-3L	105		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-4L	98		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-15L	108		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-19L	95		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-37L	103		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-54L	110		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-77L	106		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-81L	110		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-104L	101		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-105L	109		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-114L	102		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-118L	103		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-123L	102		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-126L	109		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-155L	106		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-156L	105 C		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-157L	105 C156		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-167L	101		20 - 145	06/13/24 10:44	07/02/24 19:57	1

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED

Lab Sample ID: 140-36940-4

Date Collected: 05/16/24 17:00

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	103		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-170L	101		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-188L	100		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-189L	119		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-202L	101		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-205L	102		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-206L	105		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-208L	106		20 - 145	06/13/24 10:44	07/02/24 19:57	1
PCB-209L	108		20 - 145	06/13/24 10:44	07/02/24 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	89		20 - 130	06/13/24 10:44	07/02/24 19:57	1
PCB-111L	91		20 - 130	06/13/24 10:44	07/02/24 19:57	1
PCB-178L	91		20 - 130	06/13/24 10:44	07/02/24 19:57	1
PCB-8L	97		70 - 130	06/13/24 10:44	07/02/24 19:57	1
PCB-79L	101		70 - 130	06/13/24 10:44	07/02/24 19:57	1
PCB-95L	114		70 - 130	06/13/24 10:44	07/02/24 19:57	1
PCB-153L	96		70 - 130	06/13/24 10:44	07/02/24 19:57	1

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	79400	H	22500	22500	103	ng/Sample		07/25/24 01:56	1
2-Methylnaphthalene	41400	H	22500	22500	23.4	ng/Sample		07/25/24 01:56	1
Acenaphthylene	564	J H	900	900	53.5	ng/Sample		07/25/24 01:56	1
Acenaphthene	3180	J H	9000	9000	74.9	ng/Sample		07/25/24 01:56	1
Fluorene	21500	H	9000	9000	20.1	ng/Sample		07/25/24 01:56	1
Phenanthrene	45600	H	1800	1800	28.8	ng/Sample		07/25/24 01:56	1
Anthracene	7880	J H	9000	9000	27.6	ng/Sample		07/25/24 01:56	1
Fluoranthene	3010	H	1800	1800	47.7	ng/Sample		07/25/24 01:56	1
Pyrene	6210	H	1800	1800	45.1	ng/Sample		07/25/24 01:56	1
Benzo[a]anthracene	4370	H	1800	1800	136	ng/Sample		07/25/24 01:56	1
Chrysene	7030	H	1800	1800	137	ng/Sample		07/25/24 01:56	1
Benzo[b]fluoranthene	1200	J H	9000	9000	9.62	ng/Sample		07/25/24 01:56	1
Benzo[k]fluoranthene	290	J H	1800	1800	6.79	ng/Sample		07/25/24 01:56	1
Benzo[e]pyrene	2100	H	1800	1800	12.7	ng/Sample		07/25/24 01:56	1
Benzo[a]pyrene	938	H	900	900	6.26	ng/Sample		07/25/24 01:56	1
Perylene	ND	H	900	900	5.61	ng/Sample		07/25/24 01:56	1
Indeno[1,2,3-cd]pyrene	ND	H	900	900	3.99	ng/Sample		07/25/24 01:56	1
Dibenz(a,h)anthracene	176	J H	1800	1800	2.85	ng/Sample		07/25/24 01:56	1
Benzo[g,h,i]perylene	381	J H	1800	1800	3.47	ng/Sample		07/25/24 01:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	64		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-2-Methylnaphthalene	67		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Acenaphthylene	96		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Acenaphthene	88		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Fluorene	101		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Fluoranthrene	98		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C3-Pyrene	98		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Benzo(a)anthracene	86		20 - 130	06/13/24 10:30	07/25/24 01:56	1

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED**

**Lab Sample ID: 140-36940-4**

**Date Collected: 05/16/24 17:00**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

**Sample Container: Air Train**

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	86		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Benzo(b)fluoranthene	63		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Benzo(k)fluoranthene	100		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C4-Benzo(e)pyrene	51		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C4-Benzo(a)pyrene	92		20 - 130	06/13/24 10:30	07/25/24 01:56	1
Perylene-d12	97		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Indeno(1,2,3-cd)pyrene	93		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Dibenz(a,h)anthracene	109		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C12-Benzo(ghi)perylene	92		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Anthracene	104		20 - 130	06/13/24 10:30	07/25/24 01:56	1
13C6-Phenanthrene	93		20 - 130	06/13/24 10:30	07/25/24 01:56	1



# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED

Lab Sample ID: 140-36940-5

Date Collected: 05/17/24 12:30

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	1.44	J B	3.00	0.660	0.114	ng/Sample		06/28/24 15:51	5
PCB-18	0.408	J q C B	3.00	1.43	0.0130	ng/Sample		06/28/24 15:51	5
PCB-28	0.248	J C20 B	3.00	1.26	0.0187	ng/Sample		06/28/24 15:51	5
PCB-44	2.20	J C	4.50	1.95	0.0399	ng/Sample		06/28/24 15:51	5
PCB-52	0.300	J	1.50	0.660	0.0422	ng/Sample		06/28/24 15:51	5
PCB-66	ND		1.50	0.600	0.0308	ng/Sample		06/28/24 15:51	5
PCB-77	ND		1.50	0.630	0.0352	ng/Sample		06/28/24 15:51	5
PCB-81	ND		1.50	0.480	0.0366	ng/Sample		06/28/24 15:51	5
PCB-101	0.208	J q C90	4.50	1.95	0.0185	ng/Sample		06/28/24 15:51	5
PCB-105	ND		1.50	0.510	0.0820	ng/Sample		06/28/24 15:51	5
PCB-114	ND		1.50	0.825	0.0801	ng/Sample		06/28/24 15:51	5
PCB-118	ND		1.50	0.915	0.0757	ng/Sample		06/28/24 15:51	5
PCB-123	ND		1.50	0.855	0.0872	ng/Sample		06/28/24 15:51	5
PCB-126	ND		1.50	0.615	0.0869	ng/Sample		06/28/24 15:51	5
PCB-128	ND C		3.00	1.02	0.0210	ng/Sample		06/28/24 15:51	5
PCB-138	0.154	J q C129 B	6.00	2.55	0.0218	ng/Sample		06/28/24 15:51	5
PCB-153	ND C		3.00	1.25	0.0188	ng/Sample		06/28/24 15:51	5
PCB-156	ND C		3.00	1.28	0.0233	ng/Sample		06/28/24 15:51	5
PCB-157	ND C156		3.00	1.28	0.0233	ng/Sample		06/28/24 15:51	5
PCB-167	ND		1.50	0.900	0.0152	ng/Sample		06/28/24 15:51	5
PCB-169	ND		1.50	0.615	0.0149	ng/Sample		06/28/24 15:51	5
PCB-170	ND		1.50	0.660	0.0182	ng/Sample		06/28/24 15:51	5
PCB-180	0.0384	J q C B	3.00	1.02	0.0140	ng/Sample		06/28/24 15:51	5
PCB-187	0.0614	J q	1.50	0.630	0.0148	ng/Sample		06/28/24 15:51	5
PCB-189	ND		1.50	0.735	0.0298	ng/Sample		06/28/24 15:51	5
PCB-195	ND		1.50	0.795	0.0429	ng/Sample		06/28/24 15:51	5
PCB-206	ND		1.50	0.855	0.227	ng/Sample		06/28/24 15:51	5
PCB-209	ND		1.50	0.690	0.0139	ng/Sample		06/28/24 15:51	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	60		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-3L	72		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-4L	74		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-15L	89		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-19L	70		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-37L	88		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-54L	90		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-77L	88		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-81L	87		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-104L	86		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-105L	89		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-114L	90		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-118L	86		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-123L	87		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-126L	92		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-155L	87		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-156L	91 C		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-157L	91 C156		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-167L	89		20 - 145	06/13/24 10:44	06/28/24 15:51	5

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED

Lab Sample ID: 140-36940-5

Date Collected: 05/17/24 12:30

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	89		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-170L	90		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-188L	87		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-189L	61		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-202L	84		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-205L	89		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-206L	103		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-208L	109		20 - 145	06/13/24 10:44	06/28/24 15:51	5
PCB-209L	113		20 - 145	06/13/24 10:44	06/28/24 15:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	84		20 - 130	06/13/24 10:44	06/28/24 15:51	5
PCB-111L	89		20 - 130	06/13/24 10:44	06/28/24 15:51	5
PCB-178L	88		20 - 130	06/13/24 10:44	06/28/24 15:51	5
PCB-8L	80 q		70 - 130	06/13/24 10:44	06/28/24 15:51	5
PCB-79L	96		70 - 130	06/13/24 10:44	06/28/24 15:51	5
PCB-95L	105		70 - 130	06/13/24 10:44	06/28/24 15:51	5
PCB-153L	89		70 - 130	06/13/24 10:44	06/28/24 15:51	5

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	17900	H B	1500	1500	8.89	ng/Sample		07/28/24 18:10	20
2-Methylnaphthalene	7140	B	750	750	2.24	ng/Sample		07/17/24 04:33	10
Acenaphthylene	101	B	30.0	30.0	3.16	ng/Sample		07/17/24 04:33	10
Acenaphthene	118	J B	300	300	3.32	ng/Sample		07/17/24 04:33	10
Fluorene	1310	B	300	300	0.850	ng/Sample		07/17/24 04:33	10
Phenanthrene	7510	B	60.0	60.0	2.90	ng/Sample		07/17/24 04:33	10
Anthracene	640		300	300	2.94	ng/Sample		07/17/24 04:33	10
Fluoranthene	384	B	60.0	60.0	3.63	ng/Sample		07/17/24 04:33	10
Pyrene	470	B	60.0	60.0	3.72	ng/Sample		07/17/24 04:33	10
Benzo[a]anthracene	235	B	60.0	60.0	39.0	ng/Sample		07/17/24 04:33	10
Chrysene	859	B	60.0	60.0	36.5	ng/Sample		07/17/24 04:33	10
Benzo[b]fluoranthene	187	J B	300	300	3.13	ng/Sample		07/17/24 04:33	10
Benzo[k]fluoranthene	ND		60.0	60.0	4.89	ng/Sample		07/17/24 04:33	10
Benzo[e]pyrene	376	B	60.0	60.0	3.32	ng/Sample		07/17/24 04:33	10
Benzo[a]pyrene	ND		30.0	30.0	3.40	ng/Sample		07/17/24 04:33	10
Perylene	48.1	B	30.0	30.0	1.16	ng/Sample		07/17/24 04:33	10
Indeno[1,2,3-cd]pyrene	172	B	30.0	30.0	0.799	ng/Sample		07/17/24 04:33	10
Dibenz(a,h)anthracene	115	B	60.0	60.0	0.775	ng/Sample		07/17/24 04:33	10
Benzo[g,h,i]perylene	67.3	B	60.0	60.0	0.512	ng/Sample		07/17/24 04:33	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	75		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Naphthalene	54		20 - 130	06/13/24 10:30	07/28/24 18:10	20
13C6-2-Methylnaphthalene	70		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Acenaphthylene	92		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Acenaphthene	97		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Fluorene	94		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Fluoranthrene	94		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C3-Pyrene	89		20 - 130	06/13/24 10:30	07/17/24 04:33	10

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED**

**Lab Sample ID: 140-36940-5**

**Date Collected: 05/17/24 12:30**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

**Sample Container: Air Train**

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Benzo(a)anthracene	110		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Chrysene	110		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Benzo(b)fluoranthene	25		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Benzo(k)fluoranthene	22		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C4-Benzo(e)pyrene	26		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C4-Benzo(a)pyrene	24		20 - 130	06/13/24 10:30	07/17/24 04:33	10
Perylene-d12	59		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Indeno(1,2,3-cd)pyrene	69		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Dibenz(a,h)anthracene	28		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C12-Benzo(ghi)perylene	56		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Anthracene	83		20 - 130	06/13/24 10:30	07/17/24 04:33	10
13C6-Phenanthrene	70		20 - 130	06/13/24 10:30	07/17/24 04:33	10

# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED

Lab Sample ID: 140-36940-6

Date Collected: 05/17/24 16:30

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.857	J B	3.00	0.660	0.102	ng/Sample		06/28/24 16:52	5
PCB-18	0.139	J S q C B	3.00	1.43	0.00988	ng/Sample		06/28/24 16:52	5
PCB-28	0.140	J q C20 B	3.00	1.26	0.0139	ng/Sample		06/28/24 16:52	5
PCB-44	1.65	J C	4.50	1.95	0.0518	ng/Sample		06/28/24 16:52	5
PCB-52	0.123	J q	1.50	0.660	0.0548	ng/Sample		06/28/24 16:52	5
PCB-66	ND		1.50	0.600	0.0401	ng/Sample		06/28/24 16:52	5
PCB-77	ND		1.50	0.630	0.0472	ng/Sample		06/28/24 16:52	5
PCB-81	ND		1.50	0.480	0.0460	ng/Sample		06/28/24 16:52	5
PCB-101	0.0690	J q C90	4.50	1.95	0.0112	ng/Sample		06/28/24 16:52	5
PCB-105	ND		1.50	0.510	0.0304	ng/Sample		06/28/24 16:52	5
PCB-114	ND		1.50	0.825	0.0314	ng/Sample		06/28/24 16:52	5
PCB-118	ND		1.50	0.915	0.0288	ng/Sample		06/28/24 16:52	5
PCB-123	ND		1.50	0.855	0.0320	ng/Sample		06/28/24 16:52	5
PCB-126	ND		1.50	0.615	0.0354	ng/Sample		06/28/24 16:52	5
PCB-128	ND C		3.00	1.02	0.0211	ng/Sample		06/28/24 16:52	5
PCB-138	0.0710	J q C129 B	6.00	2.55	0.0219	ng/Sample		06/28/24 16:52	5
PCB-153	0.0632	J C	3.00	1.25	0.0190	ng/Sample		06/28/24 16:52	5
PCB-156	ND C		3.00	1.28	0.0232	ng/Sample		06/28/24 16:52	5
PCB-157	ND C156		3.00	1.28	0.0232	ng/Sample		06/28/24 16:52	5
PCB-167	ND		1.50	0.900	0.0151	ng/Sample		06/28/24 16:52	5
PCB-169	ND		1.50	0.615	0.0154	ng/Sample		06/28/24 16:52	5
PCB-170	ND		1.50	0.660	0.00452	ng/Sample		06/28/24 16:52	5
PCB-180	0.0105	J q C B	3.00	1.02	0.00365	ng/Sample		06/28/24 16:52	5
PCB-187	ND		1.50	0.630	0.00387	ng/Sample		06/28/24 16:52	5
PCB-189	ND		1.50	0.735	0.0113	ng/Sample		06/28/24 16:52	5
PCB-195	ND		1.50	0.795	0.0363	ng/Sample		06/28/24 16:52	5
PCB-206	ND		1.50	0.855	0.0995	ng/Sample		06/28/24 16:52	5
PCB-209	ND		1.50	0.690	0.00308	ng/Sample		06/28/24 16:52	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	53		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-3L	62		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-4L	65		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-15L	79		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-19L	69		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-37L	78		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-54L	82		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-77L	83		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-81L	84		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-104L	84		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-105L	88		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-114L	87		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-118L	88		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-123L	88		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-126L	88		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-155L	83		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-156L	88 C		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-157L	88 C156		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-167L	87		20 - 145	06/13/24 10:44	06/28/24 16:52	5

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED

Lab Sample ID: 140-36940-6

Date Collected: 05/17/24 16:30

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	88		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-170L	90		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-188L	86		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-189L	59		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-202L	86		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-205L	87		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-206L	102		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-208L	106		20 - 145	06/13/24 10:44	06/28/24 16:52	5
PCB-209L	109		20 - 145	06/13/24 10:44	06/28/24 16:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	82		20 - 130	06/13/24 10:44	06/28/24 16:52	5
PCB-111L	87		20 - 130	06/13/24 10:44	06/28/24 16:52	5
PCB-178L	88		20 - 130	06/13/24 10:44	06/28/24 16:52	5
PCB-8L	89 q		70 - 130	06/13/24 10:44	06/28/24 16:52	5
PCB-79L	103		70 - 130	06/13/24 10:44	06/28/24 16:52	5
PCB-95L	106		70 - 130	06/13/24 10:44	06/28/24 16:52	5
PCB-153L	97		70 - 130	06/13/24 10:44	06/28/24 16:52	5

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	25800	B	1500	1500	5.12	ng/Sample		07/19/24 03:06	20
2-Methylnaphthalene	1390	J B	1500	1500	0.929	ng/Sample		07/19/24 03:06	20
Acenaphthylene	42.7	J B	60.0	60.0	2.67	ng/Sample		07/19/24 03:06	20
Acenaphthene	82.2	J B	600	600	3.02	ng/Sample		07/19/24 03:06	20
Fluorene	180	J B	600	600	1.33	ng/Sample		07/19/24 03:06	20
Phenanthrene	1460	B	120	120	1.37	ng/Sample		07/19/24 03:06	20
Anthracene	60.0	J	600	600	1.22	ng/Sample		07/19/24 03:06	20
Fluoranthene	103	J B	120	120	1.10	ng/Sample		07/19/24 03:06	20
Pyrene	92.3	J B	120	120	1.17	ng/Sample		07/19/24 03:06	20
Benzo[a]anthracene	62.3	J B	120	120	35.9	ng/Sample		07/19/24 03:06	20
Chrysene	482	B	120	120	32.8	ng/Sample		07/19/24 03:06	20
Benzo[b]fluoranthene	67.4	J B	600	600	0.729	ng/Sample		07/19/24 03:06	20
Benzo[k]fluoranthene	32.5	J B	120	120	0.598	ng/Sample		07/19/24 03:06	20
Benzo[e]pyrene	124	B	120	120	1.17	ng/Sample		07/19/24 03:06	20
Benzo[a]pyrene	35.3	J	60.0	60.0	0.600	ng/Sample		07/19/24 03:06	20
Perylene	29.3	J B	60.0	60.0	0.533	ng/Sample		07/19/24 03:06	20
Indeno[1,2,3-cd]pyrene	50.0	J B	60.0	60.0	0.881	ng/Sample		07/19/24 03:06	20
Dibenz(a,h)anthracene	51.8	J B	120	120	0.391	ng/Sample		07/19/24 03:06	20
Benzo[g,h,i]perylene	83.6	J B	120	120	0.731	ng/Sample		07/19/24 03:06	20

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	71		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-2-Methylnaphthalene	74		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Acenaphthylene	105		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Acenaphthene	98		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Fluorene	110		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Fluoranthrene	96		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C3-Pyrene	88		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Benzo(a)anthracene	68		20 - 130	06/13/24 10:30	07/19/24 03:06	20

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED**

**Lab Sample ID: 140-36940-6**

**Date Collected: 05/17/24 16:30**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

**Sample Container: Air Train**

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	73		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Benzo(b)fluoranthene	49		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Benzo(k)fluoranthene	69		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C4-Benzo(e)pyrene	27		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C4-Benzo(a)pyrene	67		20 - 130	06/13/24 10:30	07/19/24 03:06	20
Perylene-d12	64		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Indeno(1,2,3-cd)pyrene	51		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Dibenz(a,h)anthracene	54		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C12-Benzo(ghi)perylene	42		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Anthracene	98		20 - 130	06/13/24 10:30	07/19/24 03:06	20
13C6-Phenanthrene	82		20 - 130	06/13/24 10:30	07/19/24 03:06	20

# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

Lab Sample ID: 140-36940-7

Date Collected: 05/20/24 15:30

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.568	J B	3.00	0.660	0.0710	ng/Sample		06/28/24 17:53	5
PCB-18	0.0652	J S q C B	3.00	1.43	0.00486	ng/Sample		06/28/24 17:53	5
PCB-28	0.111	J q C20 B	3.00	1.26	0.0228	ng/Sample		06/28/24 17:53	5
PCB-44	0.984	J C	4.50	1.95	0.0584	ng/Sample		06/28/24 17:53	5
PCB-52	ND		1.50	0.660	0.0618	ng/Sample		06/28/24 17:53	5
PCB-66	ND		1.50	0.600	0.0451	ng/Sample		06/28/24 17:53	5
PCB-77	ND		1.50	0.630	0.0536	ng/Sample		06/28/24 17:53	5
PCB-81	ND		1.50	0.480	0.0514	ng/Sample		06/28/24 17:53	5
PCB-101	0.0502	J q C90	4.50	1.95	0.0163	ng/Sample		06/28/24 17:53	5
PCB-105	ND		1.50	0.510	0.0445	ng/Sample		06/28/24 17:53	5
PCB-114	ND		1.50	0.825	0.0471	ng/Sample		06/28/24 17:53	5
PCB-118	ND		1.50	0.915	0.0414	ng/Sample		06/28/24 17:53	5
PCB-123	ND		1.50	0.855	0.0481	ng/Sample		06/28/24 17:53	5
PCB-126	ND		1.50	0.615	0.0496	ng/Sample		06/28/24 17:53	5
PCB-128	ND C		3.00	1.02	0.00584	ng/Sample		06/28/24 17:53	5
PCB-138	0.0621	J q C129 B	6.00	2.55	0.00607	ng/Sample		06/28/24 17:53	5
PCB-153	0.0597	J C	3.00	1.25	0.00525	ng/Sample		06/28/24 17:53	5
PCB-156	ND C		3.00	1.28	0.00653	ng/Sample		06/28/24 17:53	5
PCB-157	ND C156		3.00	1.28	0.00653	ng/Sample		06/28/24 17:53	5
PCB-167	0.00562	J q B	1.50	0.900	0.00408	ng/Sample		06/28/24 17:53	5
PCB-169	ND		1.50	0.615	0.00427	ng/Sample		06/28/24 17:53	5
PCB-170	ND		1.50	0.660	0.00106	ng/Sample		06/28/24 17:53	5
PCB-180	0.0239	J q C B	3.00	1.02	0.000873	ng/Sample		06/28/24 17:53	5
PCB-187	ND		1.50	0.630	0.000926	ng/Sample		06/28/24 17:53	5
PCB-189	ND		1.50	0.735	0.0183	ng/Sample		06/28/24 17:53	5
PCB-195	ND		1.50	0.795	0.00869	ng/Sample		06/28/24 17:53	5
PCB-206	ND		1.50	0.855	0.105	ng/Sample		06/28/24 17:53	5
PCB-209	ND		1.50	0.690	0.00817	ng/Sample		06/28/24 17:53	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	54		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-3L	58		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-4L	65		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-15L	76		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-19L	71		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-37L	80		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-54L	83		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-77L	82		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-81L	84		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-104L	86		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-105L	87		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-114L	85		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-118L	87		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-123L	86		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-126L	88		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-155L	84		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-156L	89 C		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-157L	89 C156		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-167L	87		20 - 145	06/13/24 10:44	06/28/24 17:53	5

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

Lab Sample ID: 140-36940-7

Date Collected: 05/20/24 15:30

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-169L	87		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-170L	93		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-188L	87		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-189L	59		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-202L	89		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-205L	89		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-206L	107		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-208L	109		20 - 145	06/13/24 10:44	06/28/24 17:53	5
PCB-209L	116		20 - 145	06/13/24 10:44	06/28/24 17:53	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	76		20 - 130	06/13/24 10:44	06/28/24 17:53	5
PCB-111L	86		20 - 130	06/13/24 10:44	06/28/24 17:53	5
PCB-178L	82		20 - 130	06/13/24 10:44	06/28/24 17:53	5
PCB-8L	99		70 - 130	06/13/24 10:44	06/28/24 17:53	5
PCB-79L	100		70 - 130	06/13/24 10:44	06/28/24 17:53	5
PCB-95L	104		70 - 130	06/13/24 10:44	06/28/24 17:53	5
PCB-153L	90		70 - 130	06/13/24 10:44	06/28/24 17:53	5

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	14900	B	750	750	3.15	ng/Sample		07/17/24 06:42	10
2-Methylnaphthalene	1970	B	750	750	0.414	ng/Sample		07/17/24 06:42	10
Acenaphthylene	14.2	J B	30.0	30.0	1.80	ng/Sample		07/17/24 06:42	10
Acenaphthene	41.1	J B	300	300	2.05	ng/Sample		07/17/24 06:42	10
Fluorene	114	J B	300	300	0.770	ng/Sample		07/17/24 06:42	10
Phenanthrene	624	B	60.0	60.0	0.770	ng/Sample		07/17/24 06:42	10
Anthracene	23.4	J	300	300	0.807	ng/Sample		07/17/24 06:42	10
Fluoranthene	62.8	B	60.0	60.0	0.342	ng/Sample		07/17/24 06:42	10
Pyrene	35.6	J B	60.0	60.0	0.397	ng/Sample		07/17/24 06:42	10
Benzo[a]anthracene	ND		60.0	60.0	24.3	ng/Sample		07/17/24 06:42	10
Chrysene	617	B	60.0	60.0	24.6	ng/Sample		07/17/24 06:42	10
Benzo[b]fluoranthene	22.6	J B	300	300	0.345	ng/Sample		07/17/24 06:42	10
Benzo[k]fluoranthene	4.31	J B	60.0	60.0	0.337	ng/Sample		07/17/24 06:42	10
Benzo[e]pyrene	34.6	J B	60.0	60.0	0.649	ng/Sample		07/17/24 06:42	10
Benzo[a]pyrene	12.0	J	30.0	30.0	0.344	ng/Sample		07/17/24 06:42	10
Perylene	71.7	B	30.0	30.0	0.360	ng/Sample		07/17/24 06:42	10
Indeno[1,2,3-cd]pyrene	120	B	30.0	30.0	1.06	ng/Sample		07/17/24 06:42	10
Dibenz(a,h)anthracene	ND		60.0	60.0	0.604	ng/Sample		07/17/24 06:42	10
Benzo[g,h,i]perylene	78.2	B	60.0	60.0	0.361	ng/Sample		07/17/24 06:42	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	77		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-2-Methylnaphthalene	75		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Acenaphthylene	84		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Acenaphthene	89		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Fluorene	89		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Fluoranthrene	95		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C3-Pyrene	82		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Benzo(a)anthracene	78		20 - 130	06/13/24 10:30	07/17/24 06:42	10

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED**

**Lab Sample ID: 140-36940-7**

**Date Collected: 05/20/24 15:30**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

**Sample Container: Air Train**

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C6-Chrysene	76		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Benzo(b)fluoranthene	40		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Benzo(k)fluoranthene	40		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C4-Benzo(e)pyrene	26		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C4-Benzo(a)pyrene	54		20 - 130	06/13/24 10:30	07/17/24 06:42	10
Perylene-d12	37		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Indeno(1,2,3-cd)pyrene	14	*5-	20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Dibenz(a,h)anthracene	10	*5-	20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C12-Benzo(ghi)perylene	42		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Anthracene	71		20 - 130	06/13/24 10:30	07/17/24 06:42	10
13C6-Phenanthrene	74		20 - 130	06/13/24 10:30	07/17/24 06:42	10



# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-FIELD

Lab Sample ID: 140-36940-8

BLANK-COMBINED

Date Collected: 05/15/24 10:00

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.0182	J q B	0.600	0.132	0.00454	ng/Sample		06/29/24 03:19	1
PCB-18	ND	C	0.600	0.285	0.00207	ng/Sample		06/29/24 03:19	1
PCB-28	0.0271	J q C20 B	0.600	0.252	0.00386	ng/Sample		06/29/24 03:19	1
PCB-44	0.0652	J C	0.900	0.390	0.0115	ng/Sample		06/29/24 03:19	1
PCB-52	ND		0.300	0.132	0.0122	ng/Sample		06/29/24 03:19	1
PCB-66	ND		0.300	0.120	0.00889	ng/Sample		06/29/24 03:19	1
PCB-77	ND		0.300	0.126	0.0102	ng/Sample		06/29/24 03:19	1
PCB-81	ND		0.300	0.0960	0.0105	ng/Sample		06/29/24 03:19	1
PCB-101	0.0361	J q C90	0.900	0.390	0.00355	ng/Sample		06/29/24 03:19	1
PCB-105	0.0140	J	0.300	0.102	0.00376	ng/Sample		06/29/24 03:19	1
PCB-114	ND		0.300	0.165	0.00402	ng/Sample		06/29/24 03:19	1
PCB-118	0.0140	J q B	0.300	0.183	0.00347	ng/Sample		06/29/24 03:19	1
PCB-123	ND		0.300	0.171	0.00405	ng/Sample		06/29/24 03:19	1
PCB-126	ND		0.300	0.123	0.00406	ng/Sample		06/29/24 03:19	1
PCB-128	ND	C	0.600	0.204	0.00215	ng/Sample		06/29/24 03:19	1
PCB-138	0.0242	J q C129 E	1.20	0.510	0.00223	ng/Sample		06/29/24 03:19	1
PCB-153	0.0148	J q C	0.600	0.249	0.00193	ng/Sample		06/29/24 03:19	1
PCB-156	ND	C	0.600	0.255	0.00238	ng/Sample		06/29/24 03:19	1
PCB-157	ND	C156	0.600	0.255	0.00238	ng/Sample		06/29/24 03:19	1
PCB-167	0.00290	J B	0.300	0.180	0.00157	ng/Sample		06/29/24 03:19	1
PCB-169	0.00193	J q B	0.300	0.123	0.00152	ng/Sample		06/29/24 03:19	1
PCB-170	0.00457	J q	0.300	0.132	0.000687	ng/Sample		06/29/24 03:19	1
PCB-180	0.00846	J q C B	0.600	0.204	0.000573	ng/Sample		06/29/24 03:19	1
PCB-187	0.00631	J q	0.300	0.126	0.000607	ng/Sample		06/29/24 03:19	1
PCB-189	ND		0.300	0.147	0.00375	ng/Sample		06/29/24 03:19	1
PCB-195	0.00353	J q	0.300	0.159	0.00277	ng/Sample		06/29/24 03:19	1
PCB-206	ND		0.300	0.171	0.0191	ng/Sample		06/29/24 03:19	1
PCB-209	0.00590	J B	0.300	0.138	0.000545	ng/Sample		06/29/24 03:19	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	53		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-3L	61		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-4L	62		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-15L	68		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-19L	63		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-37L	69		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-54L	71		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-77L	80		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-81L	78		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-104L	72		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-105L	85		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-114L	80		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-118L	84		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-123L	81		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-126L	88		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-155L	79		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-156L	89	C	20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-157L	89	C156	20 - 145	06/13/24 10:44	06/29/24 03:19	1

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-FIELD

Lab Sample ID: 140-36940-8

BLANK-COMBINED

Date Collected: 05/15/24 10:00

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	86		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-169L	89		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-170L	91		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-188L	80		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-189L	88		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-202L	84		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-205L	93		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-206L	94		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-208L	97		20 - 145	06/13/24 10:44	06/29/24 03:19	1
PCB-209L	97		20 - 145	06/13/24 10:44	06/29/24 03:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	71		20 - 130	06/13/24 10:44	06/29/24 03:19	1
PCB-111L	81		20 - 130	06/13/24 10:44	06/29/24 03:19	1
PCB-178L	83		20 - 130	06/13/24 10:44	06/29/24 03:19	1
PCB-8L	96		70 - 130	06/13/24 10:44	06/29/24 03:19	1
PCB-79L	98		70 - 130	06/13/24 10:44	06/29/24 03:19	1
PCB-95L	111		70 - 130	06/13/24 10:44	06/29/24 03:19	1
PCB-153L	89		70 - 130	06/13/24 10:44	06/29/24 03:19	1

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	6750	B	750	750	56.2	ng/Sample		07/17/24 16:04	10
2-Methylnaphthalene	4430	B	750	750	43.4	ng/Sample		07/17/24 16:04	10
Acenaphthylene	ND	G	36.6	30.0	36.6	ng/Sample		07/17/24 16:04	10
Acenaphthene	1380	B	300	300	67.0	ng/Sample		07/17/24 16:04	10
Fluorene	774	B	300	300	17.4	ng/Sample		07/17/24 16:04	10
Phenanthrene	1140	B	60.0	60.0	45.3	ng/Sample		07/17/24 16:04	10
Anthracene	ND		300	300	57.0	ng/Sample		07/17/24 16:04	10
Fluoranthene	320	B	60.0	60.0	14.1	ng/Sample		07/17/24 16:04	10
Pyrene	280	B	60.0	60.0	14.9	ng/Sample		07/17/24 16:04	10
Benzo[a]anthracene	48.6	J B	60.0	60.0	13.4	ng/Sample		07/17/24 16:04	10
Chrysene	76.4	B	60.0	60.0	7.31	ng/Sample		07/17/24 16:04	10
Benzo[b]fluoranthene	89.0	J B	300	300	4.94	ng/Sample		07/17/24 16:04	10
Benzo[k]fluoranthene	75.7	B	60.0	60.0	4.95	ng/Sample		07/17/24 16:04	10
Benzo[e]pyrene	27.8	J B	60.0	60.0	4.52	ng/Sample		07/17/24 16:04	10
Benzo[a]pyrene	70.6		30.0	30.0	4.20	ng/Sample		07/17/24 16:04	10
Perylene	21.4	J B	30.0	30.0	4.77	ng/Sample		07/17/24 16:04	10
Indeno[1,2,3-cd]pyrene	92.5	B	30.0	30.0	2.48	ng/Sample		07/17/24 16:04	10
Dibenz(a,h)anthracene	121	B	60.0	60.0	2.32	ng/Sample		07/17/24 16:04	10
Benzo[g,h,i]perylene	1110	B	60.0	60.0	3.32	ng/Sample		07/17/24 16:04	10

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	33		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-2-Methylnaphthalene	43		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Acenaphthylene	38		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Acenaphthene	47		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Fluorene	76		20 - 130	06/13/24 10:30	07/17/24 16:04	10

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: M23 - EPN 4-1/IN-701-FIELD

Lab Sample ID: 140-36940-8

BLANK-COMBINED

Date Collected: 05/15/24 10:00

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Fluoranthrene	63		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C3-Pyrene	79		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Benzo(a)anthracene	48		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Chrysene	64		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Benzo(b)fluoranthene	61		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Benzo(k)fluoranthene	61		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C4-Benzo(e)pyrene	55		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C4-Benzo(a)pyrene	74		20 - 130	06/13/24 10:30	07/17/24 16:04	10
Perylene-d12	62		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Indeno(1,2,3-cd)pyrene	115		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Dibenz(a,h)anthracene	74		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C12-Benzo(ghi)perylene	70		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Anthracene	48		20 - 130	06/13/24 10:30	07/17/24 16:04	10
13C6-Phenanthrene	47		20 - 130	06/13/24 10:30	07/17/24 16:04	10

# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: A-2174,A-2175 M23 MEDIA CHECK

Lab Sample ID: 140-36940-14

XAD,FILTER

Date Collected: 05/15/24 00:00

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.0169	J q B	0.600	0.132	0.00469	ng/Sample		06/28/24 12:47	1
PCB-18	0.0105	J C B	0.600	0.285	0.00221	ng/Sample		06/28/24 12:47	1
PCB-28	0.0221	J q C20 B	0.600	0.252	0.00550	ng/Sample		06/28/24 12:47	1
PCB-44	ND	C	0.900	0.390	0.0230	ng/Sample		06/28/24 12:47	1
PCB-52	ND		0.300	0.132	0.0244	ng/Sample		06/28/24 12:47	1
PCB-66	ND		0.300	0.120	0.0178	ng/Sample		06/28/24 12:47	1
PCB-77	ND		0.300	0.126	0.0206	ng/Sample		06/28/24 12:47	1
PCB-81	ND		0.300	0.0960	0.0208	ng/Sample		06/28/24 12:47	1
PCB-101	0.0151	J q C90	0.900	0.390	0.00275	ng/Sample		06/28/24 12:47	1
PCB-105	0.00801	J q	0.300	0.102	0.00586	ng/Sample		06/28/24 12:47	1
PCB-114	ND		0.300	0.165	0.00620	ng/Sample		06/28/24 12:47	1
PCB-118	ND		0.300	0.183	0.00539	ng/Sample		06/28/24 12:47	1
PCB-123	ND		0.300	0.171	0.00635	ng/Sample		06/28/24 12:47	1
PCB-126	ND		0.300	0.123	0.00665	ng/Sample		06/28/24 12:47	1
PCB-128	0.00358	J C	0.600	0.204	0.00325	ng/Sample		06/28/24 12:47	1
PCB-138	0.0168	J C129 B	1.20	0.510	0.00337	ng/Sample		06/28/24 12:47	1
PCB-153	0.00877	J C	0.600	0.249	0.00292	ng/Sample		06/28/24 12:47	1
PCB-156	ND	C	0.600	0.255	0.00354	ng/Sample		06/28/24 12:47	1
PCB-157	ND	C156	0.600	0.255	0.00354	ng/Sample		06/28/24 12:47	1
PCB-167	ND		0.300	0.180	0.00240	ng/Sample		06/28/24 12:47	1
PCB-169	ND		0.300	0.123	0.00231	ng/Sample		06/28/24 12:47	1
PCB-170	0.00336	J q	0.300	0.132	0.00187	ng/Sample		06/28/24 12:47	1
PCB-180	0.0187	J q C B	0.600	0.204	0.00158	ng/Sample		06/28/24 12:47	1
PCB-187	0.0104	J q	0.300	0.126	0.00167	ng/Sample		06/28/24 12:47	1
PCB-189	ND		0.300	0.147	0.00395	ng/Sample		06/28/24 12:47	1
PCB-195	0.0185	J q	0.300	0.159	0.00277	ng/Sample		06/28/24 12:47	1
PCB-206	ND		0.300	0.171	0.00315	ng/Sample		06/28/24 12:47	1
PCB-209	ND		0.300	0.138	0.00285	ng/Sample		06/28/24 12:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	14	*5-	20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-3L	44		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-4L	19	*5-	20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-15L	68		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-19L	27		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-37L	71		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-54L	49		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-77L	79		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-81L	78		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-104L	75		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-105L	87		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-114L	83		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-118L	84		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-123L	83		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-126L	85		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-155L	78		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-156L	87	C	20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-157L	87	C156	20 - 145	06/13/24 10:44	06/28/24 12:47	1

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: A-2174,A-2175 M23 MEDIA CHECK

Lab Sample ID: 140-36940-14

XAD,FILTER

Date Collected: 05/15/24 00:00

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	83		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-169L	87		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-170L	90		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-188L	79		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-189L	60		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-202L	82		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-205L	87		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-206L	102		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-208L	103		20 - 145	06/13/24 10:44	06/28/24 12:47	1
PCB-209L	110		20 - 145	06/13/24 10:44	06/28/24 12:47	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	69		20 - 130	06/13/24 10:44	06/28/24 12:47	1
PCB-111L	78		20 - 130	06/13/24 10:44	06/28/24 12:47	1
PCB-178L	78		20 - 130	06/13/24 10:44	06/28/24 12:47	1

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Analyte	Result	Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	67.8	J B	75.0	75.0	0.0613	ng/Sample		07/17/24 02:24	1
2-Methylnaphthalene	29.5	J B	75.0	75.0	0.0548	ng/Sample		07/17/24 02:24	1
Acenaphthylene	0.505	J B	3.00	3.00	0.0431	ng/Sample		07/17/24 02:24	1
Acenaphthene	8.93	J B	30.0	30.0	0.0630	ng/Sample		07/17/24 02:24	1
Fluorene	10.0	J B	30.0	30.0	0.0690	ng/Sample		07/17/24 02:24	1
Phenanthrene	14.4	B	6.00	6.00	0.0811	ng/Sample		07/17/24 02:24	1
Anthracene	0.276	J	30.0	30.0	0.0792	ng/Sample		07/17/24 02:24	1
Fluoranthene	2.98	J B	6.00	6.00	0.0221	ng/Sample		07/17/24 02:24	1
Pyrene	3.64	J B	6.00	6.00	0.0225	ng/Sample		07/17/24 02:24	1
Benzo[a]anthracene	0.0581	J B	6.00	6.00	0.0203	ng/Sample		07/17/24 02:24	1
Chrysene	0.987	J B	6.00	6.00	0.0202	ng/Sample		07/17/24 02:24	1
Benzo[b]fluoranthene	0.253	J B	30.0	30.0	0.00927	ng/Sample		07/17/24 02:24	1
Benzo[k]fluoranthene	0.104	J B	6.00	6.00	0.00885	ng/Sample		07/17/24 02:24	1
Benzo[e]pyrene	0.220	J B	6.00	6.00	0.00794	ng/Sample		07/17/24 02:24	1
Benzo[a]pyrene	0.111	J	3.00	3.00	0.00689	ng/Sample		07/17/24 02:24	1
Perylene	0.0828	J B	3.00	3.00	0.00746	ng/Sample		07/17/24 02:24	1
Indeno[1,2,3-cd]pyrene	0.0756	J B	3.00	3.00	0.00450	ng/Sample		07/17/24 02:24	1
Dibenz(a,h)anthracene	0.0575	J B	6.00	6.00	0.00358	ng/Sample		07/17/24 02:24	1
Benzo[g,h,i]perylene	0.127	J B	6.00	6.00	0.00466	ng/Sample		07/17/24 02:24	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared		Analyzed	Dil Fac
13C6-Naphthalene	77		20 - 130			06/13/24 10:30		07/17/24 02:24	1
13C6-2-Methylnaphthalene	72		20 - 130			06/13/24 10:30		07/17/24 02:24	1
13C6-Acenaphthylene	95		20 - 130			06/13/24 10:30		07/17/24 02:24	1
13C6-Acenaphthene	83		20 - 130			06/13/24 10:30		07/17/24 02:24	1
13C6-Fluorene	85		20 - 130			06/13/24 10:30		07/17/24 02:24	1
13C6-Fluoranthrene	84		20 - 130			06/13/24 10:30		07/17/24 02:24	1
13C3-Pyrene	84		20 - 130			06/13/24 10:30		07/17/24 02:24	1
13C6-Benzo(a)anthracene	84		20 - 130			06/13/24 10:30		07/17/24 02:24	1
13C6-Chrysene	84		20 - 130			06/13/24 10:30		07/17/24 02:24	1

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# Client Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: A-2174,A-2175 M23 MEDIA CHECK

Lab Sample ID: 140-36940-14

XAD,FILTER

Date Collected: 05/15/24 00:00

Matrix: Air

Date Received: 05/30/24 19:00

Sample Container: Air Train

## Method: EPA 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Benzo(b)fluoranthene	93		20 - 130	06/13/24 10:30	07/17/24 02:24	1
13C6-Benzo(k)fluoranthene	84		20 - 130	06/13/24 10:30	07/17/24 02:24	1
13C4-Benzo(e)pyrene	87		20 - 130	06/13/24 10:30	07/17/24 02:24	1
13C4-Benzo(a)pyrene	90		20 - 130	06/13/24 10:30	07/17/24 02:24	1
Perylene-d12	88		20 - 130	06/13/24 10:30	07/17/24 02:24	1
13C6-Indeno(1,2,3-cd)pyrene	118		20 - 130	06/13/24 10:30	07/17/24 02:24	1
13C6-Dibenz(a,h)anthracene	100		20 - 130	06/13/24 10:30	07/17/24 02:24	1
13C12-Benzo(ghi)perylene	85		20 - 130	06/13/24 10:30	07/17/24 02:24	1
13C6-Anthracene	75		20 - 130	06/13/24 10:30	07/17/24 02:24	1
13C6-Phenanthrene	68		20 - 130	06/13/24 10:30	07/17/24 02:24	1

# Default Detection Limits

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

### Prep: Combined Prep

Analyte	RL	Units
PCB-101	0.300	ng/Sample
PCB-105	0.100	ng/Sample
PCB-114	0.100	ng/Sample
PCB-118	0.100	ng/Sample
PCB-123	0.100	ng/Sample
PCB-126	0.100	ng/Sample
PCB-128	0.200	ng/Sample
PCB-138	0.400	ng/Sample
PCB-153	0.200	ng/Sample
PCB-156	0.200	ng/Sample
PCB-157	0.200	ng/Sample
PCB-167	0.100	ng/Sample
PCB-169	0.100	ng/Sample
PCB-170	0.100	ng/Sample
PCB-18	0.200	ng/Sample
PCB-180	0.200	ng/Sample
PCB-187	0.100	ng/Sample
PCB-189	0.100	ng/Sample
PCB-195	0.100	ng/Sample
PCB-206	0.100	ng/Sample
PCB-209	0.100	ng/Sample
PCB-28	0.200	ng/Sample
PCB-44	0.300	ng/Sample
PCB-52	0.100	ng/Sample
PCB-66	0.100	ng/Sample
PCB-77	0.100	ng/Sample
PCB-8	0.200	ng/Sample
PCB-81	0.100	ng/Sample

## Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

### Prep: Combined Prep

Analyte	RL	Units
2-Methylnaphthalene	25.0	ng/Sample
Acenaphthene	10.0	ng/Sample
Acenaphthylene	1.00	ng/Sample
Anthracene	10.0	ng/Sample
Benzo[a]anthracene	2.00	ng/Sample
Benzo[a]pyrene	1.00	ng/Sample
Benzo[b]fluoranthene	10.0	ng/Sample
Benzo[e]pyrene	2.00	ng/Sample
Benzo[g,h,i]perylene	2.00	ng/Sample
Benzo[k]fluoranthene	2.00	ng/Sample
Chrysene	2.00	ng/Sample
Dibenz(a,h)anthracene	2.00	ng/Sample
Fluoranthene	2.00	ng/Sample
Fluorene	10.0	ng/Sample
Indeno[1,2,3-cd]pyrene	1.00	ng/Sample
Naphthalene	25.0	ng/Sample
Perylene	1.00	ng/Sample
Phenanthrene	2.00	ng/Sample
Pyrene	2.00	ng/Sample

# Surrogate Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)						
		PCB28L (20-130)	PCB111L (20-130)	PCB178L (20-130)	PCB8L (70-130)	PCB79L (70-130)	PCB95L (70-130)	PCB153L (70-130)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-C	81	86	84	90	100	104	90
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	84	89	87	88	102	110	96
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	83	88	87	99	104	107	103
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	89	91	91	97	101	114	96
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	84	89	88	80 q	96	105	89
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	82	87	88	89 q	103	106	97
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	76	86	82	99	100	104	90
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	71	81	83	96	98	111	89
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	69	78	78				
MB 140-87624/21-B	Method Blank	77	81	78				

### Surrogate Legend

PCB28L = PCB-28L  
PCB111L = PCB-111L  
PCB178L = PCB-178L  
PCB8L = PCB-8L  
PCB79L = PCB-79L  
PCB95L = PCB-95L  
PCB153L = PCB-153L

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		PCB28L (15-145)	PCB111L (40-145)	PCB178L (40-145)
LCS 140-87624/19-B	Lab Control Sample	74	82	80
LCSD 140-87624/20-B	Lab Control Sample Dup	72	79	79

### Surrogate Legend

PCB28L = PCB-28L  
PCB111L = PCB-111L  
PCB178L = PCB-178L



# Isotope Dilution Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB1L (20-145)	PCB3L (20-145)	PCB4L (20-145)	PCB15L (20-145)	PCB19L (20-145)	PCB37L (20-145)	PCB54L (20-145)	PCB77L (20-145)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-C	49	77	58	77	83	84	121	82
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	62	87	69	74	109	90	141	88
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	61	74	73	89	59	89	98	88
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	105	105	98	108	95	103	110	106
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	60	72	74	89	70	88	90	88
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	53	62	65	79	69	78	82	83
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	54	58	65	76	71	80	83	82
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	53	61	62	68	63	69	71	80
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	14 *5-	44	19 *5-	68	27	71	49	79
MB 140-87624/21-B	Method Blank	46	77	45	74	51	78	71	88

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB81L (20-145)	PCB104L (20-145)	PCB105L (20-145)	PCB114L (20-145)	PCB118L (20-145)	PCB123L (20-145)	PCB126L (20-145)	PCB155L (20-145)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-C	85	85	86	84	86	84	87	85
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	88	87	93	86	91	85	92	85
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	89	87	94	90	90	93	92	87
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	110	101	109	102	103	102	109	106
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	87	86	89	90	86	87	92	87
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	84	84	88	87	88	88	88	83
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	84	86	87	85	87	86	88	84
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	78	72	85	80	84	81	88	79
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	78	75	87	83	84	83	85	78
MB 140-87624/21-B	Method Blank	85	78	86	83	83	82	89	84

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB156L (20-145)	PCB157L (20-145)	PCB167L (20-145)	PCB169L (20-145)	PCB170L (20-145)	PCB188L (20-145)	PCB189L (20-145)	PCB202L (20-145)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-C	88 C	88 C156	89	83	84	84	98	83
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	89 C	89 C156	88	86	91	86	96	86
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	86 C	86 C156	84	84	91	88	63	86
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	105 C	105 C156	101	103	101	100	119	101
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	91 C	91 C156	89	89	90	87	61	84
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	88 C	88 C156	87	88	90	86	59	86

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# Isotope Dilution Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB156L (20-145)	PCB157L (20-145)	PCB167L (20-145)	PCB169L (20-145)	PCB170L (20-145)	PCB188L (20-145)	PCB189L (20-145)	PCB202L (20-145)
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-C	89 C	89 C156	87	87	93	87	59	89
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	89 C	89 C156	86	89	91	80	88	84
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	87 C	87 C156	83	87	90	79	60	82
MB 140-87624/21-B	Method Blank	92 C	92 C156	88	91	89	77	102	82

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)			
		PCB205L (20-145)	PCB206L (20-145)	PCB208L (20-145)	PCB209L (20-145)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-C	89	78	80	80
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	90	83	89	84
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	89	102	105	104
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	102	105	106	108
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	89	103	109	113
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	87	102	106	109
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	89	107	109	116
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	93	94	97	97
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	87	102	103	110
MB 140-87624/21-B	Method Blank	89	87	86	88

### Surrogate Legend

PCB1L = PCB-1L  
PCB3L = PCB-3L  
PCB4L = PCB-4L  
PCB15L = PCB-15L  
PCB19L = PCB-19L  
PCB37L = PCB-37L  
PCB54L = PCB-54L  
PCB77L = PCB-77L  
PCB81L = PCB-81L  
PCB104L = PCB-104L  
PCB105L = PCB-105L  
PCB114L = PCB-114L  
PCB118L = PCB-118L  
PCB123L = PCB-123L  
PCB126L = PCB-126L  
PCB155L = PCB-155L  
PCB156L = PCB-156L  
PCB157L = PCB-157L  
PCB167L = PCB-167L  
PCB169L = PCB-169L  
PCB170L = PCB-170L  
PCB188L = PCB-188L  
PCB189L = PCB-189L  
PCB202L = PCB-202L

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# Isotope Dilution Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23  
PCB205L = PCB-205L  
PCB206L = PCB-206L  
PCB208L = PCB-208L  
PCB209L = PCB-209L

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB1L (15-145)	PCB3L (15-145)	PCB4L (15-145)	PCB15L (15-145)	PCB19L (15-145)	PCB37L (15-145)	PCB54L (15-145)	PCB77L (40-145)
LCS 140-87624/19-B	Lab Control Sample	52	78	49	74	53	79	70	87
LCSD 140-87624/20-B	Lab Control Sample Dup	61	82	56	73	58	77	75	86

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB81L (40-145)	PCB104L (40-145)	PCB105L (40-145)	PCB114L (40-145)	PCB118L (40-145)	PCB123L (40-145)	PCB126L (40-145)	PCB155L (40-145)
LCS 140-87624/19-B	Lab Control Sample	85	81	87	84	88	86	90	87
LCSD 140-87624/20-B	Lab Control Sample Dup	84	76	82	80	82	81	88	80

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB156L (40-145)	PCB157L (40-145)	PCB167L (40-145)	PCB169L (40-145)	PCB170L (40-145)	PCB188L (40-145)	PCB189L (40-145)	PCB202L (40-145)
LCS 140-87624/19-B	Lab Control Sample	89 C	89 C156	87	93	92	81	103	81
LCSD 140-87624/20-B	Lab Control Sample Dup	88 C	88 C156	84	89	89	76	100	80

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB205L (40-145)	PCB206L (40-145)	PCB208L (40-145)	PCB209L (40-145)				
LCS 140-87624/19-B	Lab Control Sample	90	87	87	90				
LCSD 140-87624/20-B	Lab Control Sample Dup	88	84	85	87				

### Surrogate Legend

PCB1L = PCB-1L  
PCB3L = PCB-3L  
PCB4L = PCB-4L  
PCB15L = PCB-15L  
PCB19L = PCB-19L  
PCB37L = PCB-37L  
PCB54L = PCB-54L  
PCB77L = PCB-77L  
PCB81L = PCB-81L  
PCB104L = PCB-104L  
PCB105L = PCB-105L  
PCB114L = PCB-114L  
PCB118L = PCB-118L  
PCB123L = PCB-123L  
PCB126L = PCB-126L  
PCB155L = PCB-155L  
PCB156L = PCB-156L  
PCB157L = PCB-157L  
PCB167L = PCB-167L  
PCB169L = PCB-169L  
PCB170L = PCB-170L  
PCB188L = PCB-188L  
PCB189L = PCB-189L  
PCB202L = PCB-202L  
PCB205L = PCB-205L  
PCB206L = PCB-206L

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# Isotope Dilution Summary

Client: Alliance Source Testing LLC  
 Project/Site: BASF Freeport TX - ICR M23  
 PCB208L = PCB-208L  
 PCB209L = PCB-209L

Job ID: 140-36940-1

## Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		C6N (20-130)	C62MN (20-130)	C6Acy (20-130)	C6Ace (20-130)	C6Fle (20-130)	C6Fla (20-130)	C3Pyr (20-130)	C6BaA (20-130)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-C	60	65	81	83	87	89	87	73
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	56	67	77	83	83	87	87	67
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED		76	99	91	53	105	107	98
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	60							
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	64	67	96	88	101	98	98	86
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	75	70	92	97	94	94	89	110
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	54							
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	71	74	105	98	110	96	88	68
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	77	75	84	89	89	95	82	78
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	33	43	38	47	76	63	79	48
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	77	72	95	83	85	84	84	84
LCS 140-87620/19-B	Lab Control Sample	66	69	101	90	96	91	86	96
LCSD 140-87620/20-B	Lab Control Sample Dup	66	71	104	92	105	92	88	99
MB 140-87620/21-B	Method Blank	68	69	104	90	101	89	88	105

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		C6Chr (20-130)	C6BbF (20-130)	C6BkF (20-130)	C4BeP (20-130)	C4BaP (20-130)	PRY (20-130)	IND (20-130)	DBA (20-130)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-C	77	74	74	67	74	74	57	63
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	70	66	68	60	65	67	41	50
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	92	42	43	32	60	70	76	78
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED								
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	86	63	100	51	92	97	93	109
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	110	25	22	26	24	59	69	28
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED								
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	73	49	69	27	67	64	51	54
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	76	40	40	26	54	37	14 *5-	10 *5-
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	64	61	61	55	74	62	115	74
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	84	93	84	87	90	88	118	100
LCS 140-87620/19-B	Lab Control Sample	93	93	84	85	84	74	114	109
LCSD 140-87620/20-B	Lab Control Sample Dup	94	96	89	89	94	94	116	108
MB 140-87620/21-B	Method Blank	102	97	88	84	83	81	106	101

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# Isotope Dilution Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)		
		BghiP (20-130)	AN (20-130)	C6Ph (20-130)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-C	49	67	59
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	38	72	56
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	56	83	75
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED			
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	92	104	93
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	56	83	70
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED			
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	42	98	82
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	42	71	74
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	70	48	47
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	85	75	68
LCS 140-87620/19-B	Lab Control Sample	90	99	81
LCSD 140-87620/20-B	Lab Control Sample Dup	93	94	80
MB 140-87620/21-B	Method Blank	84	96	87

### Surrogate Legend

C6N = 13C6-Naphthalene  
C62MN = 13C6-2-Methylnaphthalene  
C6Acy = 13C6-Acenaphthylene  
C6Ace = 13C6-Acenaphthene  
C6Fle = 13C6-Fluorene  
C6Fla = 13C6-Fluoranthrene  
C3Pyr = 13C3-Pyrene  
C6BaA = 13C6-Benzo(a)anthracene  
C6Chr = 13C6-Chrysene  
C6BbF = 13C6-Benzo(b)fluoranthene  
C6BkF = 13C6-Benzo(k)fluoranthene  
C4BeP = 13C4-Benzo(e)pyrene  
C4BaP = 13C4-Benzo(a)pyrene  
PRY = Perylene-d12  
IND = 13C6-Indeno(1,2,3-cd)pyrene  
DBA = 13C6-Dibenz(a,h)anthracene  
BghiP = 13C12-Benzo(ghi)perylene  
AN = 13C6-Anthracene  
C6Ph = 13C6-Phenanthrene

# QC Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source)

Lab Sample ID: MB 140-87624/21-B

Matrix: Air

Analysis Batch: 88205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87624

Analyte	MB Result	MB Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
PCB-8	0.005311	J q	0.600	0.132	0.00133	ng/Sample		06/28/24 02:59	1
PCB-18	0.01087	J C	0.600	0.285	0.00192	ng/Sample		06/28/24 02:59	1
PCB-28	0.03140	J C20	0.600	0.252	0.00279	ng/Sample		06/28/24 02:59	1
PCB-44	ND	C	0.900	0.390	0.0162	ng/Sample		06/28/24 02:59	1
PCB-52	ND		0.300	0.132	0.0171	ng/Sample		06/28/24 02:59	1
PCB-66	ND		0.300	0.120	0.0125	ng/Sample		06/28/24 02:59	1
PCB-77	ND		0.300	0.126	0.0142	ng/Sample		06/28/24 02:59	1
PCB-81	ND		0.300	0.0960	0.0149	ng/Sample		06/28/24 02:59	1
PCB-101	ND	C90	0.900	0.390	0.00251	ng/Sample		06/28/24 02:59	1
PCB-105	ND		0.300	0.102	0.00624	ng/Sample		06/28/24 02:59	1
PCB-114	ND		0.300	0.165	0.00636	ng/Sample		06/28/24 02:59	1
PCB-118	0.01078	J q	0.300	0.183	0.00564	ng/Sample		06/28/24 02:59	1
PCB-123	ND		0.300	0.171	0.00659	ng/Sample		06/28/24 02:59	1
PCB-126	ND		0.300	0.123	0.00672	ng/Sample		06/28/24 02:59	1
PCB-128	ND	C	0.600	0.204	0.00397	ng/Sample		06/28/24 02:59	1
PCB-138	0.01471	J q C129	1.20	0.510	0.00412	ng/Sample		06/28/24 02:59	1
PCB-153	ND	C	0.600	0.249	0.00357	ng/Sample		06/28/24 02:59	1
PCB-156	ND	C	0.600	0.255	0.00437	ng/Sample		06/28/24 02:59	1
PCB-157	ND	C156	0.600	0.255	0.00437	ng/Sample		06/28/24 02:59	1
PCB-167	0.008199	J q	0.300	0.180	0.00289	ng/Sample		06/28/24 02:59	1
PCB-169	0.004557	J q	0.300	0.123	0.00283	ng/Sample		06/28/24 02:59	1
PCB-170	ND		0.300	0.132	0.000229	ng/Sample		06/28/24 02:59	1
PCB-180	0.01591	J C	0.600	0.204	0.000191	ng/Sample		06/28/24 02:59	1
PCB-187	ND		0.300	0.126	0.000202	ng/Sample		06/28/24 02:59	1
PCB-189	ND		0.300	0.147	0.00276	ng/Sample		06/28/24 02:59	1
PCB-195	ND		0.300	0.159	0.00188	ng/Sample		06/28/24 02:59	1
PCB-206	ND		0.300	0.171	0.0292	ng/Sample		06/28/24 02:59	1
PCB-209	0.01017	J q	0.300	0.138	0.000744	ng/Sample		06/28/24 02:59	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-1L	46		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-3L	77		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-4L	45		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-15L	74		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-19L	51		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-37L	78		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-54L	71		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-77L	88		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-81L	85		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-104L	78		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-105L	86		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-114L	83		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-118L	83		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-123L	82		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-126L	89		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-155L	84		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-156L	92	C	20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-157L	92	C156	20 - 145	06/13/24 10:44	06/28/24 02:59	1

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# QC Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Lab Sample ID: MB 140-87624/21-B

Matrix: Air

Analysis Batch: 88205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87624

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-167L	88		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-169L	91		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-170L	89		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-188L	77		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-189L	102		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-202L	82		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-205L	89		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-206L	87		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-208L	86		20 - 145	06/13/24 10:44	06/28/24 02:59	1
PCB-209L	88		20 - 145	06/13/24 10:44	06/28/24 02:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	77		20 - 130	06/13/24 10:44	06/28/24 02:59	1
PCB-111L	81		20 - 130	06/13/24 10:44	06/28/24 02:59	1
PCB-178L	78		20 - 130	06/13/24 10:44	06/28/24 02:59	1

Lab Sample ID: LCS 140-87624/19-B

Matrix: Air

Analysis Batch: 88205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1	15.0	16.49		ng/Sample		110	60 - 135
PCB-3	15.0	16.55		ng/Sample		110	60 - 135
PCB-4	15.0	15.73		ng/Sample		105	60 - 135
PCB-15	15.0	14.56		ng/Sample		97	60 - 135
PCB-19	15.0	15.69		ng/Sample		105	60 - 135
PCB-37	15.0	15.45		ng/Sample		103	60 - 135
PCB-54	15.0	14.45		ng/Sample		96	60 - 135
PCB-77	15.0	15.37		ng/Sample		102	60 - 135
PCB-81	15.0	14.61		ng/Sample		97	60 - 135
PCB-104	15.0	15.88		ng/Sample		106	60 - 135
PCB-105	15.0	15.00		ng/Sample		100	60 - 135
PCB-114	15.0	16.24		ng/Sample		108	60 - 135
PCB-118	15.0	13.93		ng/Sample		93	60 - 135
PCB-123	15.0	15.55		ng/Sample		104	60 - 135
PCB-126	15.0	18.14		ng/Sample		121	60 - 135
PCB-155	15.0	14.33		ng/Sample		96	60 - 135
PCB-156	30.0	30.27	C	ng/Sample		101	60 - 135
PCB-157	30.0	30.27	C156	ng/Sample		101	60 - 135
PCB-167	15.0	15.81		ng/Sample		105	60 - 135
PCB-169	15.0	16.77		ng/Sample		112	60 - 135
PCB-188	15.0	14.87		ng/Sample		99	60 - 135
PCB-189	15.0	16.08		ng/Sample		107	60 - 135
PCB-202	15.0	15.11		ng/Sample		101	60 - 135
PCB-205	15.0	16.63		ng/Sample		111	60 - 135
PCB-206	15.0	15.04		ng/Sample		100	60 - 135
PCB-208	15.0	14.22		ng/Sample		95	60 - 135
PCB-209	15.0	13.81		ng/Sample		92	60 - 135

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# QC Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
PCB-1L	52		15 - 145
PCB-3L	78		15 - 145
PCB-4L	49		15 - 145
PCB-15L	74		15 - 145
PCB-19L	53		15 - 145
PCB-37L	79		15 - 145
PCB-54L	70		15 - 145
PCB-77L	87		40 - 145
PCB-81L	85		40 - 145
PCB-104L	81		40 - 145
PCB-105L	87		40 - 145
PCB-114L	84		40 - 145
PCB-118L	88		40 - 145
PCB-123L	86		40 - 145
PCB-126L	90		40 - 145
PCB-155L	87		40 - 145
PCB-156L	89	C	40 - 145
PCB-157L	89	C156	40 - 145
PCB-167L	87		40 - 145
PCB-169L	93		40 - 145
PCB-170L	92		40 - 145
PCB-188L	81		40 - 145
PCB-189L	103		40 - 145
PCB-202L	81		40 - 145
PCB-205L	90		40 - 145
PCB-206L	87		40 - 145
PCB-208L	87		40 - 145
PCB-209L	90		40 - 145

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
PCB-28L	74		15 - 145
PCB-111L	82		40 - 145
PCB-178L	80		40 - 145

Lab Sample ID: LCSD 140-87624/20-B  
Matrix: Air  
Analysis Batch: 88205

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 87624

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	
							Limits		RPD	Limit
PCB-1	15.0	16.66		ng/Sample		111	60 - 135		1	50
PCB-3	15.0	16.58		ng/Sample		111	60 - 135		0	50
PCB-4	15.0	16.24		ng/Sample		108	60 - 135		3	50
PCB-15	15.0	14.95		ng/Sample		100	60 - 135		3	50
PCB-19	15.0	16.07		ng/Sample		107	60 - 135		2	50
PCB-37	15.0	15.53		ng/Sample		104	60 - 135		1	50
PCB-54	15.0	14.70		ng/Sample		98	60 - 135		2	50
PCB-77	15.0	16.16		ng/Sample		108	60 - 135		5	50
PCB-81	15.0	15.65		ng/Sample		104	60 - 135		7	50
PCB-104	15.0	16.23		ng/Sample		108	60 - 135		2	50
PCB-105	15.0	15.49		ng/Sample		103	60 - 135		3	50
PCB-114	15.0	16.45		ng/Sample		110	60 - 135		1	50

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# QC Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Lab Sample ID: LCSD 140-87624/20-B

Matrix: Air

Analysis Batch: 88205

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87624

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-118	15.0	14.68		ng/Sample		98	60 - 135	5	50
PCB-123	15.0	15.28		ng/Sample		102	60 - 135	2	50
PCB-126	15.0	18.37		ng/Sample		122	60 - 135	1	50
PCB-155	15.0	14.62		ng/Sample		97	60 - 135	2	50
PCB-156	30.0	30.41	C	ng/Sample		101	60 - 135	0	50
PCB-157	30.0	30.41	C156	ng/Sample		101	60 - 135	0	50
PCB-167	15.0	15.67		ng/Sample		104	60 - 135	1	50
PCB-169	15.0	17.08		ng/Sample		114	60 - 135	2	50
PCB-188	15.0	14.78		ng/Sample		99	60 - 135	1	50
PCB-189	15.0	16.41		ng/Sample		109	60 - 135	2	50
PCB-202	15.0	15.35		ng/Sample		102	60 - 135	2	50
PCB-205	15.0	16.65		ng/Sample		111	60 - 135	0	50
PCB-206	15.0	15.08		ng/Sample		101	60 - 135	0	50
PCB-208	15.0	14.50		ng/Sample		97	60 - 135	2	50
PCB-209	15.0	14.31		ng/Sample		95	60 - 135	4	50

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
PCB-1L	61		15 - 145
PCB-3L	82		15 - 145
PCB-4L	56		15 - 145
PCB-15L	73		15 - 145
PCB-19L	58		15 - 145
PCB-37L	77		15 - 145
PCB-54L	75		15 - 145
PCB-77L	86		40 - 145
PCB-81L	84		40 - 145
PCB-104L	76		40 - 145
PCB-105L	82		40 - 145
PCB-114L	80		40 - 145
PCB-118L	82		40 - 145
PCB-123L	81		40 - 145
PCB-126L	88		40 - 145
PCB-155L	80		40 - 145
PCB-156L	88	C	40 - 145
PCB-157L	88	C156	40 - 145
PCB-167L	84		40 - 145
PCB-169L	89		40 - 145
PCB-170L	89		40 - 145
PCB-188L	76		40 - 145
PCB-189L	100		40 - 145
PCB-202L	80		40 - 145
PCB-205L	88		40 - 145
PCB-206L	84		40 - 145
PCB-208L	85		40 - 145
PCB-209L	87		40 - 145

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
PCB-28L	72		15 - 145

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# QC Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Chlorinated Biphenyl Congeners (Stationary Source) (Continued)

Lab Sample ID: LCSD 140-87624/20-B

Matrix: Air

Analysis Batch: 88205

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87624

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
PCB-111L	79		40 - 145
PCB-178L	79		40 - 145

## Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source)

Lab Sample ID: MB 140-87620/21-B

Matrix: Air

Analysis Batch: 88561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87620

Analyte	MB Result	MB Qualifier	RL	MDL	EDL	Unit	D	Analyzed	Dil Fac
Naphthalene	59.30	J	75.0	75.0	0.0851	ng/Sample		07/10/24 15:12	1
2-Methylnaphthalene	41.21	J	75.0	75.0	0.0664	ng/Sample		07/10/24 15:12	1
Acenaphthylene	0.5923	J	3.00	3.00	0.0441	ng/Sample		07/10/24 15:12	1
Acenaphthene	12.46	J	30.0	30.0	0.0651	ng/Sample		07/10/24 15:12	1
Fluorene	13.26	J	30.0	30.0	0.0704	ng/Sample		07/10/24 15:12	1
Phenanthrene	20.04		6.00	6.00	0.132	ng/Sample		07/10/24 15:12	1
Anthracene	ND		30.0	30.0	0.128	ng/Sample		07/10/24 15:12	1
Fluoranthene	4.354	J	6.00	6.00	0.0594	ng/Sample		07/10/24 15:12	1
Pyrene	4.020	J	6.00	6.00	0.0602	ng/Sample		07/10/24 15:12	1
Benzo[a]anthracene	0.1932	J	6.00	6.00	0.0381	ng/Sample		07/10/24 15:12	1
Chrysene	1.436	J	6.00	6.00	0.0376	ng/Sample		07/10/24 15:12	1
Benzo[b]fluoranthene	0.3617	J	30.0	30.0	0.0173	ng/Sample		07/10/24 15:12	1
Benzo[k]fluoranthene	0.2311	J	6.00	6.00	0.0169	ng/Sample		07/10/24 15:12	1
Benzo[e]pyrene	0.4635	J	6.00	6.00	0.0156	ng/Sample		07/10/24 15:12	1
Benzo[a]pyrene	ND		3.00	3.00	0.0158	ng/Sample		07/10/24 15:12	1
Perylene	0.3650	J	3.00	3.00	0.0152	ng/Sample		07/10/24 15:12	1
Indeno[1,2,3-cd]pyrene	0.3555	J	3.00	3.00	0.0115	ng/Sample		07/10/24 15:12	1
Dibenz(a,h)anthracene	0.1524	J	6.00	6.00	0.00906	ng/Sample		07/10/24 15:12	1
Benzo[g,h,i]perylene	0.4522	J	6.00	6.00	0.0103	ng/Sample		07/10/24 15:12	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Naphthalene	68		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-2-Methylnaphthalene	69		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Acenaphthylene	104		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Acenaphthene	90		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Fluorene	101		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Fluoranthene	89		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C3-Pyrene	88		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Benzo(a)anthracene	105		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Chrysene	102		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Benzo(b)fluoranthene	97		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Benzo(k)fluoranthene	88		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C4-Benzo(e)pyrene	84		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C4-Benzo(a)pyrene	83		20 - 130	06/13/24 10:30	07/10/24 15:12	1
Perylene-d12	81		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Indeno(1,2,3-cd)pyrene	106		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Dibenz(a,h)anthracene	101		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C12-Benzo(ghi)perylene	84		20 - 130	06/13/24 10:30	07/10/24 15:12	1
13C6-Anthracene	96		20 - 130	06/13/24 10:30	07/10/24 15:12	1

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# QC Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Lab Sample ID: MB 140-87620/21-B  
Matrix: Air  
Analysis Batch: 88561

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 87620

Isotope Dilution	MB MB %Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C6-Phenanthrene	87		20 - 130	06/13/24 10:30	07/10/24 15:12	1

Lab Sample ID: LCS 140-87620/19-B  
Matrix: Air  
Analysis Batch: 88561

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 87620

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	150	191.6		ng/Sample		128	60 - 140
2-Methylnaphthalene	150	172.1		ng/Sample		115	60 - 140
Acenaphthylene	150	121.1		ng/Sample		81	60 - 140
Acenaphthene	150	133.3		ng/Sample		89	60 - 140
Fluorene	150	146.2		ng/Sample		97	60 - 140
Phenanthrene	150	160.0		ng/Sample		107	60 - 140
Anthracene	150	124.5		ng/Sample		83	60 - 140
Fluoranthene	150	133.9		ng/Sample		89	60 - 140
Pyrene	150	136.2		ng/Sample		91	60 - 140
Benzo[a]anthracene	150	168.2		ng/Sample		112	60 - 140
Chrysene	150	172.4		ng/Sample		115	60 - 140
Benzo[b]fluoranthene	150	135.5		ng/Sample		90	60 - 140
Benzo[k]fluoranthene	150	129.7		ng/Sample		86	60 - 140
Benzo[e]pyrene	150	137.3		ng/Sample		92	60 - 140
Benzo[a]pyrene	150	122.4		ng/Sample		82	60 - 140
Perylene	150	127.2		ng/Sample		85	60 - 140
Indeno[1,2,3-cd]pyrene	150	144.5		ng/Sample		96	60 - 140
Dibenz(a,h)anthracene	150	139.8		ng/Sample		93	60 - 140
Benzo[g,h,i]perylene	150	136.4		ng/Sample		91	60 - 140

Isotope Dilution	LCS LCS %Recovery	Qualifier	Limits
13C6-Naphthalene	66		20 - 130
13C6-2-Methylnaphthalene	69		20 - 130
13C6-Acenaphthylene	101		20 - 130
13C6-Acenaphthene	90		20 - 130
13C6-Fluorene	96		20 - 130
13C6-Fluoranthrene	91		20 - 130
13C3-Pyrene	86		20 - 130
13C6-Benzo(a)anthracene	96		20 - 130
13C6-Chrysene	93		20 - 130
13C6-Benzo(b)fluoranthene	93		20 - 130
13C6-Benzo(k)fluoranthene	84		20 - 130
13C4-Benzo(e)pyrene	85		20 - 130
13C4-Benzo(a)pyrene	84		20 - 130
Perylene-d12	74		20 - 130
13C6-Indeno(1,2,3-cd)pyrene	114		20 - 130
13C6-Dibenz(a,h)anthracene	109		20 - 130
13C12-Benzo(ghi)perylene	90		20 - 130
13C6-Anthracene	99		20 - 130
13C6-Phenanthrene	81		20 - 130

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# QC Sample Results

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Method: 23 - Polycyclic Aromatic Hydrocarbons (Stationary Source) (Continued)

Lab Sample ID: LCSD 140-87620/20-B

Matrix: Air

Analysis Batch: 88561

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87620

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	150	183.1		ng/Sample		122	60 - 140	5	25
2-Methylnaphthalene	150	177.0		ng/Sample		118	60 - 140	3	25
Acenaphthylene	150	123.3		ng/Sample		82	60 - 140	2	25
Acenaphthene	150	130.9		ng/Sample		87	60 - 140	2	25
Fluorene	150	145.8		ng/Sample		97	60 - 140	0	25
Phenanthrene	150	161.5		ng/Sample		108	60 - 140	1	25
Anthracene	150	122.0		ng/Sample		81	60 - 140	2	25
Fluoranthene	150	136.6		ng/Sample		91	60 - 140	2	25
Pyrene	150	137.4		ng/Sample		92	60 - 140	1	25
Benzo[a]anthracene	150	167.6		ng/Sample		112	60 - 140	0	25
Chrysene	150	172.1		ng/Sample		115	60 - 140	0	25
Benzo[b]fluoranthene	150	135.5		ng/Sample		90	60 - 140	0	25
Benzo[k]fluoranthene	150	127.8		ng/Sample		85	60 - 140	1	25
Benzo[e]pyrene	150	143.3		ng/Sample		96	60 - 140	4	25
Benzo[a]pyrene	150	117.3		ng/Sample		78	60 - 140	4	25
Perylene	150	118.9		ng/Sample		79	60 - 140	7	25
Indeno[1,2,3-cd]pyrene	150	137.8		ng/Sample		92	60 - 140	5	25
Dibenz(a,h)anthracene	150	141.2		ng/Sample		94	60 - 140	1	25
Benzo[g,h,i]perylene	150	134.9		ng/Sample		90	60 - 140	1	25

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C6-Naphthalene	66		20 - 130
13C6-2-Methylnaphthalene	71		20 - 130
13C6-Acenaphthylene	104		20 - 130
13C6-Acenaphthene	92		20 - 130
13C6-Fluorene	105		20 - 130
13C6-Fluoranthrene	92		20 - 130
13C3-Pyrene	88		20 - 130
13C6-Benzo(a)anthracene	99		20 - 130
13C6-Chrysene	94		20 - 130
13C6-Benzo(b)fluoranthene	96		20 - 130
13C6-Benzo(k)fluoranthene	89		20 - 130
13C4-Benzo(e)pyrene	89		20 - 130
13C4-Benzo(a)pyrene	94		20 - 130
Perylene-d12	94		20 - 130
13C6-Indeno(1,2,3-cd)pyrene	116		20 - 130
13C6-Dibenz(a,h)anthracene	108		20 - 130
13C12-Benzo(ghi)perylene	93		20 - 130
13C6-Anthracene	94		20 - 130
13C6-Phenanthrene	80		20 - 130

# Lab Chronicle

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED**

**Lab Sample ID: 140-36940-1**

**Date Collected: 05/15/24 13:45**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		1			88205	06/28/24 04:00	MSP	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		10			88812	07/16/24 19:03	MSP	EET KNX
Instrument ID: D3PAH										

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED**

**Lab Sample ID: 140-36940-2**

**Date Collected: 05/15/24 18:45**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		1			88205	06/28/24 05:01	MSP	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		10			88812	07/16/24 20:07	MSP	EET KNX
Instrument ID: D3PAH										

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED**

**Lab Sample ID: 140-36940-3**

**Date Collected: 05/16/24 11:45**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		5			88219	06/28/24 13:48	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		10			88812	07/16/24 21:12	MSP	EET KNX
Instrument ID: D3PAH										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		20			88831	07/17/24 03:28	MSP	EET KNX
Instrument ID: D3PAH										

# Lab Chronicle

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED**

**Lab Sample ID: 140-36940-4**

**Date Collected: 05/16/24 17:00**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Dilution	Dilution			2 uL	100 uL	88321	07/02/24 07:51	CAA	EET KNX
Total/NA	Analysis	23		1			88362	07/02/24 19:57	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Dilution	Dilution			1.666666666	500 uL	89047	07/22/24 11:57	RKG	EET KNX
					66667 uL					
Total/NA	Analysis	23		1			89185	07/25/24 01:56	MSP	EET KNX
Instrument ID: D3PAH										

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED**

**Lab Sample ID: 140-36940-5**

**Date Collected: 05/17/24 12:30**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		5			88219	06/28/24 15:51	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		10			88831	07/17/24 04:33	MSP	EET KNX
Instrument ID: D3PAH										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		20			89271	07/28/24 18:10	MAC	EET KNX
Instrument ID: D3PAH										

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED**

**Lab Sample ID: 140-36940-6**

**Date Collected: 05/17/24 16:30**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		5			88219	06/28/24 16:52	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		20			88945	07/19/24 03:06	MSP	EET KNX
Instrument ID: D3PAH										

Eurofins Knoxville

# Lab Chronicle

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED**

**Lab Sample ID: 140-36940-7**

**Date Collected: 05/20/24 15:30**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		5			88219	06/28/24 17:53	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		10			88831	07/17/24 06:42	MSP	EET KNX
Instrument ID: D3PAH										

**Client Sample ID: M23 - EPN 4-1/IN-701-FIELD**

**Lab Sample ID: 140-36940-8**

**BLANK-COMBINED**

**Date Collected: 05/15/24 10:00**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		1			88242	06/29/24 03:19	LKM	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		10			88872	07/17/24 16:04	MAC	EET KNX
Instrument ID: D3PAH										

**Client Sample ID: A-2174,A-2175 M23 MEDIA CHECK**

**Lab Sample ID: 140-36940-14**

**XAD,FILTER**

**Date Collected: 05/15/24 00:00**

**Matrix: Air**

**Date Received: 05/30/24 19:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		1			88219	06/28/24 12:47	BKK	EET KNX
Instrument ID: D2D										
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		1			88831	07/17/24 02:24	MSP	EET KNX
Instrument ID: D3PAH										



# Lab Chronicle

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 140-87620/21-B**

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		1			88561	07/10/24 15:12	MAC	EET KNX
Instrument ID: D3PAH										

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 140-87624/21-B**

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		1			88205	06/28/24 02:59	MSP	EET KNX
Instrument ID: D2D										

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 140-87620/19-B**

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		1			88561	07/10/24 11:56	MAC	EET KNX
Instrument ID: D3PAH										

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 140-87624/19-B**

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		1			88205	06/27/24 23:11	MSP	EET KNX
Instrument ID: D2D										

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 140-87620/20-B**

Date Collected: N/A

Matrix: Air

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87620	06/13/24 10:30	SSS	EET KNX
Total/NA	Cleanup	Split			10 mL	500 uL	87906	06/20/24 14:13	DER	EET KNX
Total/NA	Analysis	23		1			88561	07/10/24 13:00	MAC	EET KNX
Instrument ID: D3PAH										

Eurofins Knoxville



Lab Chronicle

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

Client Sample ID: Lab Control Sample Dup  
Date Collected: N/A  
Date Received: N/A

Lab Sample ID: LCSD 140-87624/20-B  
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Combined Prep			1 Sample	30 mL	87624	06/13/24 10:44	DRM	EET KNX
Total/NA	Cleanup	Split			10 mL	100 uL	87905	06/20/24 14:09	DER	EET KNX
Total/NA	Analysis	23		1			88205	06/28/24 00:12	MSP	EET KNX
Instrument ID: D2D										

Laboratory References:  
EET KNX = Eurofins Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

# Accreditation/Certification Summary

Client: Alliance Source Testing LLC  
Project/Site: BASF Freeport TX - ICR M23

Job ID: 140-36940-1

## Laboratory: Eurofins Knoxville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	N/A	
ANAB	Dept. of Defense ELAP	L2311	02-13-25
ANAB	Dept. of Energy	L2311.01	02-13-25
ANAB	ISO/IEC 17025	L2311	02-13-25
Arkansas DEQ	State	88-0688	06-17-25
Colorado	State	TN00009	02-28-25
Connecticut	State	PH-0223	10-01-26
Florida	NELAP	E87177	06-30-25
Georgia (DW)	State	906	07-27-25
Hawaii	State	NA	07-27-25
Kansas	NELAP	E-10349	10-31-24
Kentucky (DW)	State	90101	12-31-24
Louisiana (All)	NELAP	83979	06-30-25
Louisiana (DW)	State	LA019	12-31-24
Maryland	State	277	03-31-25
Michigan	State	9933	07-27-25
Nevada	State	TN00009	07-31-24
New Hampshire	NELAP	2999	01-17-25
New Jersey	NELAP	TN001	06-30-25
New York	NELAP	10781	03-31-25
North Carolina (DW)	State	21705	07-31-25
North Carolina (WW/SW)	State	64	12-31-24
Oklahoma	State	9415	08-31-24
Oregon	NELAP	TNI0189	01-01-25
Pennsylvania	NELAP	68-00576	12-31-24
Tennessee	State	02014	07-27-25
Texas	NELAP	T104704380	08-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	525-22-279-18762	10-06-25
Utah	NELAP	TN00009	07-31-24
Virginia	NELAP	460176	09-14-24
Washington	State	C593	01-19-25
West Virginia (DW)	State	9955C	12-31-24
West Virginia DEP	State	345	04-30-25
Wisconsin	State	998044300	08-07-24

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 14:36 Lab File ID: d2240531pila.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-23	21.82	Split Peak	V4XA	05/31/24 19:26
PCB-45	23.14	Incomplete Integration	P0IK	05/31/24 16:29
PCB-45/51	23.14	Incomplete Integration	P0IK	05/31/24 16:29
PCB-51	23.14	Incomplete Integration	P0IK	05/31/24 16:29
PCB-21	23.22	Incomplete Integration	P0IK	05/31/24 16:28
PCB-21/33	23.22	Incomplete Integration	P0IK	05/31/24 16:28
PCB-33	23.22	Incomplete Integration	P0IK	05/31/24 16:28
PCB-46	23.39	Incomplete Integration	P0IK	05/31/24 16:29
PCB-22	23.60	Baseline	V4XA	05/31/24 21:29
PCB-43	24.94	Incomplete Integration	P0IK	05/31/24 16:29
PCB-43/73	24.94	Incomplete Integration	P0IK	05/31/24 16:29
PCB-73	24.94	Incomplete Integration	P0IK	05/31/24 16:29
PCB-40	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-40/41/71	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-41	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-71	26.81	Incomplete Integration	P0IK	05/31/24 16:30
PCB-103	28.06	Baseline	V4XA	05/31/24 19:30
PCB-94	28.28	Invalid Compound ID	V4XA	05/31/24 19:30
PCB-102	29.13	Incomplete Integration	P0IK	05/31/24 16:39
PCB-98	29.13	Incomplete Integration	P0IK	05/31/24 16:39
PCB-98/102	29.13	Incomplete Integration	P0IK	05/31/24 16:39
PCB-88	29.48	Incomplete Integration	P0IK	05/31/24 16:39
PCB-88/91	29.48	Incomplete Integration	P0IK	05/31/24 16:39
PCB-91	29.48	Incomplete Integration	P0IK	05/31/24 16:39
PCB-84	29.79	Incomplete Integration	P0IK	05/31/24 16:39
PCB-121	30.69	Baseline	P0IK	05/31/24 16:40
PCB-101	31.63	Split Peak	V4XA	05/31/24 19:29
PCB-113	31.63	Split Peak	V4XA	05/31/24 19:29
PCB-90	31.63	Split Peak	V4XA	05/31/24 19:29
PCB-90/101/113	31.63	Split Peak	V4XA	05/31/24 19:29

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/1

Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 14:36

Lab File ID: d2240531pila.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-83	32.24	Split Peak	V4XA	05/31/24 19:29
PCB-83/99	32.24	Split Peak	V4XA	05/31/24 19:29
PCB-99	32.24	Split Peak	V4XA	05/31/24 19:29
PCB-112	32.34	Baseline	V4XA	05/31/24 19:30
PCB-109	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-119	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-125	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-86	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-86/87/97/109/119/125	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-87	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-97	32.71	Incomplete Integration	P0IK	05/31/24 16:40
PCB-79	32.72	Baseline	P0IK	05/31/24 16:32
PCB-78	33.30	Incomplete Integration	P0IK	05/31/24 16:30
PCB-110	33.69	Incomplete Integration	P0IK	05/31/24 16:40
PCB-110/115	33.69	Incomplete Integration	P0IK	05/31/24 16:40
PCB-115	33.69	Incomplete Integration	P0IK	05/31/24 16:40
PCB-81	33.71	Incomplete Integration	P0IK	05/31/24 16:31
PCB-77	34.27	Incomplete Integration	P0IK	05/31/24 16:31
PCB-135	34.55	Incomplete Integration	P0IK	05/31/24 16:42
PCB-135/151	34.55	Incomplete Integration	P0IK	05/31/24 16:42
PCB-151	34.55	Incomplete Integration	P0IK	05/31/24 16:42
PCB-154	34.78	Baseline	V4XA	05/31/24 19:31
PCB-120	34.81	Split Peak	V4XA	05/31/24 21:31
PCB-144	35.13	Incomplete Integration	P0IK	05/31/24 16:42
PCB-147	35.47	Baseline	V4XA	05/31/24 19:32
PCB-147/149	35.47	Baseline	V4XA	05/31/24 19:32
PCB-149	35.47	Baseline	V4XA	05/31/24 19:32
PCB-108	35.92	Split Peak	V4XA	05/31/24 21:31
PCB-108/124	35.92	Split Peak	V4XA	05/31/24 21:31
PCB-124	35.92	Split Peak	V4XA	05/31/24 21:31

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 14:36 Lab File ID: d2240531pila.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-131	36.28	Baseline	P0IK	06/01/24 11:28
PCB-142	36.41	Baseline	P0IK	06/01/24 11:28
PCB-129	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-129/138/160/163	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-138	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-160	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-163	39.74	Incomplete Integration	P0IK	05/31/24 16:43
PCB-158	40.13	Incomplete Integration	P0IK	05/31/24 16:43
PCB-126	40.87	Baseline	P0IK	05/31/24 16:41
PCB-128	40.96	Incomplete Integration	P0IK	05/31/24 17:03
PCB-128/166	40.96	Incomplete Integration	P0IK	05/31/24 17:03
PCB-166	40.96	Incomplete Integration	P0IK	05/31/24 17:03
PCB-159L	41.95	Peak assignment corrected	P0IK	05/31/24 16:25
PCB-162	42.25	Baseline	P0IK	05/31/24 17:03
PCB-177	42.38	Baseline	V4XA	05/31/24 19:32
PCB-167	42.73	Incomplete Integration	P0IK	05/31/24 15:37
PCB-197	44.35	Incomplete Integration	P0IK	05/31/24 17:04
PCB-169	47.11	Incomplete Integration	P0IK	05/31/24 15:37
PCB-196	47.93	Incomplete Integration	P0IK	05/31/24 17:05
PCB-208	49.19	Baseline	P0IK	05/31/24 15:38
PCB-195	49.38	Baseline	V4XA	05/31/24 19:33
PCB-207	50.09	Incomplete Integration	P0IK	05/31/24 17:05
PCB-194	51.77	Incomplete Integration	P0IK	05/31/24 17:05
PCB-205	52.21	Incomplete Integration	P0IK	05/31/24 15:38
PCB-206	53.98	Baseline	P0IK	05/31/24 15:39

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 16:53 Lab File ID: d2240531pi2a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-6	16.42	Baseline	V4XA	05/31/24 19:42
PCB-54L	20.22	Baseline	V4XA	05/31/24 21:35
PCB-54	20.24	Baseline	P0IK	05/31/24 17:57
PCB-21	23.14	Incomplete Integration	P0IK	05/31/24 18:02
PCB-21/33	23.14	Incomplete Integration	P0IK	05/31/24 18:02
PCB-33	23.14	Incomplete Integration	P0IK	05/31/24 18:02
PCB-45	23.15	Incomplete Integration	P0IK	05/31/24 18:02
PCB-45/51	23.15	Incomplete Integration	P0IK	05/31/24 18:02
PCB-51	23.15	Incomplete Integration	P0IK	05/31/24 18:02
PCB-43	24.96	Incomplete Integration	P0IK	05/31/24 18:03
PCB-43/73	24.96	Incomplete Integration	P0IK	05/31/24 18:03
PCB-73	24.96	Incomplete Integration	P0IK	05/31/24 18:03
PCB-49	25.24	Incomplete Integration	P0IK	05/31/24 18:03
PCB-49/69	25.24	Incomplete Integration	P0IK	05/31/24 18:03
PCB-69	25.24	Incomplete Integration	P0IK	05/31/24 18:03
PCB-104	25.75	Baseline	P0IK	05/31/24 17:55
PCB-38	26.10	Split Peak	V4XA	05/31/24 21:34
PCB-40	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-40/41/71	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-41	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-71	26.83	Incomplete Integration	P0IK	05/31/24 18:03
PCB-64	27.06	Split Peak	V4XA	05/31/24 21:35
PCB-102	29.14	Baseline	V4XA	05/31/24 19:35
PCB-98	29.14	Baseline	V4XA	05/31/24 19:35
PCB-98/102	29.14	Baseline	V4XA	05/31/24 19:35
PCB-61	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-61/70/74/76	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-70	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-74	29.59	Incomplete Integration	P0IK	05/31/24 18:04
PCB-76	29.59	Incomplete Integration	P0IK	05/31/24 18:04

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/2

Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 16:53

Lab File ID: d2240531pi2a.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-89	30.29	Baseline	V4XA	05/31/24 19:36
PCB-121	30.69	Baseline	V4XA	05/31/24 19:36
PCB-92	31.07	Baseline	V4XA	05/31/24 19:36
PCB-83	32.21	Split Peak	V4XA	05/31/24 21:36
PCB-83/99	32.21	Split Peak	V4XA	05/31/24 21:36
PCB-99	32.21	Split Peak	V4XA	05/31/24 21:36
PCB-109	32.74	Baseline	V4XA	05/31/24 19:36
PCB-119	32.74	Baseline	V4XA	05/31/24 19:36
PCB-125	32.74	Baseline	V4XA	05/31/24 19:36
PCB-86	32.74	Baseline	V4XA	05/31/24 19:36
PCB-86/87/97/109/119/125	32.74	Baseline	V4XA	05/31/24 19:36
PCB-87	32.74	Baseline	V4XA	05/31/24 19:36
PCB-97	32.74	Baseline	V4XA	05/31/24 19:36
PCB-78	33.29	Baseline	V4XA	05/31/24 21:36
PCB-110	33.65	Baseline	V4XA	05/31/24 19:36
PCB-110/115	33.65	Baseline	V4XA	05/31/24 19:36
PCB-115	33.65	Baseline	V4XA	05/31/24 19:36
PCB-81	33.71	Split Peak	V4XA	05/31/24 19:35
PCB-135	34.60	Baseline	V4XA	05/31/24 21:38
PCB-135/151	34.60	Baseline	V4XA	05/31/24 21:38
PCB-151	34.60	Baseline	V4XA	05/31/24 21:38
PCB-134	35.68	Baseline	V4XA	05/31/24 21:38
PCB-134/143	35.68	Baseline	V4XA	05/31/24 21:38
PCB-143	35.68	Baseline	V4XA	05/31/24 21:38
PCB-108	35.93	Split Peak	V4XA	05/31/24 20:09
PCB-108/124	35.93	Split Peak	V4XA	05/31/24 20:09
PCB-124	35.93	Split Peak	V4XA	05/31/24 20:09
PCB-107	36.18	Split Peak	V4XA	05/31/24 20:09
PCB-131	36.28	Baseline	V4XA	06/01/24 03:35
PCB-142	36.40	Baseline	V4XA	06/01/24 03:35

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 16:53 Lab File ID: d2240531pi2a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-105	37.78	Split Peak	V4XA	05/31/24 21:37
PCB-129	39.74	Baseline	V4XA	05/31/24 21:39
PCB-129/138/160/163	39.74	Baseline	V4XA	05/31/24 21:39
PCB-138	39.74	Baseline	V4XA	05/31/24 21:39
PCB-160	39.74	Baseline	V4XA	05/31/24 21:39
PCB-163	39.74	Baseline	V4XA	05/31/24 21:39
PCB-183	41.71	Baseline	V4XA	05/31/24 19:40
PCB-183/185	41.71	Baseline	V4XA	05/31/24 19:40
PCB-185	41.71	Baseline	V4XA	05/31/24 19:40
PCB-159	41.96	Split Peak	V4XA	05/31/24 21:39
PCB-162	42.25	Split Peak	V4XA	05/31/24 21:39
PCB-177	42.38	Baseline	V4XA	05/31/24 19:41
PCB-170	46.55	Baseline	V4XA	05/31/24 19:40
PCB-169	47.12	Baseline	V4XA	05/31/24 21:40
PCB-208	49.20	Baseline	P0IK	05/31/24 17:56
PCB-195	49.39	Split Peak	V4XA	05/31/24 21:40
PCB-207	50.09	Baseline	V4XA	05/31/24 19:40
PCB-206	53.98	Baseline	P0IK	05/31/24 17:56



HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/3

Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 18:00

Lab File ID: d2240531pi3.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.83	Baseline	P0IK	05/31/24 19:08
PCB-54L	20.20	Baseline	V4XA	05/31/24 21:43
PCB-21	23.13	Baseline	V4XA	05/31/24 21:42
PCB-21/33	23.13	Baseline	V4XA	05/31/24 21:42
PCB-33	23.13	Baseline	V4XA	05/31/24 21:42
PCB-45	23.13	Baseline	V4XA	05/31/24 21:43
PCB-45/51	23.13	Baseline	V4XA	05/31/24 21:43
PCB-51	23.13	Baseline	V4XA	05/31/24 21:43
PCB-43	24.94	Baseline	V4XA	05/31/24 21:44
PCB-43/73	24.94	Baseline	V4XA	05/31/24 21:44
PCB-73	24.94	Baseline	V4XA	05/31/24 21:44
PCB-40	26.80	Baseline	V4XA	05/31/24 21:44
PCB-40/41/71	26.80	Baseline	V4XA	05/31/24 21:44
PCB-41	26.80	Baseline	V4XA	05/31/24 21:44
PCB-71	26.80	Baseline	V4XA	05/31/24 21:44
PCB-102	29.08	Baseline	V4XA	05/31/24 21:46
PCB-98	29.08	Baseline	V4XA	05/31/24 21:46
PCB-98/102	29.08	Baseline	V4XA	05/31/24 21:46
PCB-88	29.46	Baseline	V4XA	05/31/24 21:46
PCB-88/91	29.46	Baseline	V4XA	05/31/24 21:46
PCB-91	29.46	Baseline	V4XA	05/31/24 21:46
PCB-61	29.57	Baseline	V4XA	05/31/24 21:44
PCB-61/70/74/76	29.57	Baseline	V4XA	05/31/24 21:44
PCB-70	29.57	Baseline	V4XA	05/31/24 21:44
PCB-74	29.57	Baseline	V4XA	05/31/24 21:44
PCB-76	29.57	Baseline	V4XA	05/31/24 21:44
PCB-56	30.56	Split Peak	V4XA	05/31/24 21:45
PCB-83	32.21	Split Peak	V4XA	05/31/24 21:46
PCB-83/99	32.21	Split Peak	V4XA	05/31/24 21:46
PCB-99	32.21	Split Peak	V4XA	05/31/24 21:46

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/3

Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 18:00

Lab File ID: d2240531pi3.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-109	32.70	Baseline	V4XA	05/31/24 21:46
PCB-119	32.70	Baseline	V4XA	05/31/24 21:46
PCB-125	32.70	Baseline	V4XA	05/31/24 21:46
PCB-86	32.70	Baseline	V4XA	05/31/24 21:46
PCB-86/87/97/109/119/125	32.70	Baseline	V4XA	05/31/24 21:46
PCB-87	32.70	Baseline	V4XA	05/31/24 21:46
PCB-97	32.70	Baseline	V4XA	05/31/24 21:46
PCB-78	33.25	Baseline	V4XA	05/31/24 21:45
PCB-116	33.43	Baseline	V4XA	05/31/24 21:47
PCB-117	33.43	Baseline	V4XA	05/31/24 21:47
PCB-85	33.43	Baseline	V4XA	05/31/24 21:47
PCB-85/116/117	33.43	Baseline	V4XA	05/31/24 21:47
PCB-110	33.62	Baseline	V4XA	05/31/24 21:47
PCB-110/115	33.62	Baseline	V4XA	05/31/24 21:47
PCB-115	33.62	Baseline	V4XA	05/31/24 21:47
PCB-81	33.70	Split Peak	V4XA	05/31/24 21:45
PCB-105	37.77	Split Peak	V4XA	05/31/24 21:47
PCB-127	39.25	Baseline	V4XA	05/31/24 21:48
PCB-129	39.73	Baseline	V4XA	05/31/24 21:50
PCB-129/138/160/163	39.73	Baseline	V4XA	05/31/24 21:50
PCB-138	39.73	Baseline	V4XA	05/31/24 21:50
PCB-160	39.73	Baseline	V4XA	05/31/24 21:50
PCB-163	39.73	Baseline	V4XA	05/31/24 21:50
PCB-183	41.69	Baseline	V4XA	05/31/24 21:50
PCB-183/185	41.69	Baseline	V4XA	05/31/24 21:50
PCB-185	41.69	Baseline	V4XA	05/31/24 21:50
PCB-190	47.04	Split Peak	V4XA	05/31/24 21:51
PCB-208	49.18	Baseline	V4XA	05/31/24 21:51
PCB-207	50.11	Baseline	V4XA	05/31/24 21:51
PCB-206	53.97	Baseline	V4XA	05/31/24 21:51

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/4

Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 19:10

Lab File ID: d2240531pi4.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.12	Baseline	V4XA	05/31/24 21:23
PCB-21/33	23.12	Baseline	V4XA	05/31/24 21:23
PCB-33	23.12	Baseline	V4XA	05/31/24 21:23
PCB-45	23.13	Baseline	V4XA	05/31/24 21:23
PCB-45/51	23.13	Baseline	V4XA	05/31/24 21:23
PCB-51	23.13	Baseline	V4XA	05/31/24 21:23
PCB-52	24.78	Split Peak	V4XA	05/31/24 21:24
PCB-43	24.93	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-43/73	24.93	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-73	24.93	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-49	25.23	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-49/69	25.23	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-69	25.23	Invalid Compound ID	V4XA	05/31/24 21:24
PCB-40	26.80	Baseline	V4XA	05/31/24 21:25
PCB-40/41/71	26.80	Baseline	V4XA	05/31/24 21:25
PCB-41	26.80	Baseline	V4XA	05/31/24 21:25
PCB-71	26.80	Baseline	V4XA	05/31/24 21:25
PCB-61	29.56	Baseline	V4XA	05/31/24 21:25
PCB-61/70/74/76	29.56	Baseline	V4XA	05/31/24 21:25
PCB-70	29.56	Baseline	V4XA	05/31/24 21:25
PCB-74	29.56	Baseline	V4XA	05/31/24 21:25
PCB-76	29.56	Baseline	V4XA	05/31/24 21:25
PCB-109	32.70	Baseline	V4XA	05/31/24 21:26
PCB-119	32.70	Baseline	V4XA	05/31/24 21:26
PCB-125	32.70	Baseline	V4XA	05/31/24 21:26
PCB-86	32.70	Baseline	V4XA	05/31/24 21:26
PCB-86/87/97/109/119/125	32.70	Baseline	V4XA	05/31/24 21:26
PCB-87	32.70	Baseline	V4XA	05/31/24 21:26
PCB-97	32.70	Baseline	V4XA	05/31/24 21:26
PCB-135	34.53	Invalid Compound ID	V4XA	05/31/24 20:54

# HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 19:10 Lab File ID: d2240531pi4.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-135/151	34.53	Invalid Compound ID	V4XA	05/31/24 20:54
PCB-151	34.53	Invalid Compound ID	V4XA	05/31/24 20:54
PCB-131	36.25	Baseline	V4XA	06/01/24 03:37
PCB-142	36.39	Baseline	V4XA	06/01/24 03:37
PCB-129	39.72	Baseline	V4XA	05/31/24 21:27
PCB-129/138/160/163	39.72	Baseline	V4XA	05/31/24 21:27
PCB-138	39.72	Baseline	V4XA	05/31/24 21:27
PCB-160	39.72	Baseline	V4XA	05/31/24 21:27
PCB-163	39.72	Baseline	V4XA	05/31/24 21:27
PCB-183	41.69	Invalid Compound ID	V4XA	05/31/24 21:28
PCB-183/185	41.69	Invalid Compound ID	V4XA	05/31/24 21:28
PCB-185	41.69	Invalid Compound ID	V4XA	05/31/24 21:28
PCB-206	53.96	Baseline	V4XA	06/01/24 03:12

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/5

Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 20:12

Lab File ID: d2240531pi5.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.10	Baseline	V4XA	06/01/24 02:57
PCB-21/33	23.10	Baseline	V4XA	06/01/24 02:57
PCB-33	23.10	Baseline	V4XA	06/01/24 02:57
PCB-45	23.12	Baseline	V4XA	06/01/24 02:57
PCB-45/51	23.12	Baseline	V4XA	06/01/24 02:57
PCB-51	23.12	Baseline	V4XA	06/01/24 02:57
PCB-43	24.92	Baseline	V4XA	06/01/24 02:57
PCB-43/73	24.92	Baseline	V4XA	06/01/24 02:57
PCB-73	24.92	Baseline	V4XA	06/01/24 02:57
PCB-40	26.79	Baseline	V4XA	06/01/24 02:58
PCB-40/41/71	26.79	Baseline	V4XA	06/01/24 02:58
PCB-41	26.79	Baseline	V4XA	06/01/24 02:58
PCB-71	26.79	Baseline	V4XA	06/01/24 02:58
PCB-102	29.05	Baseline	V4XA	06/01/24 02:58
PCB-98	29.05	Baseline	V4XA	06/01/24 02:58
PCB-98/102	29.05	Baseline	V4XA	06/01/24 02:58
PCB-61	29.55	Baseline	V4XA	06/01/24 02:58
PCB-61/70/74/76	29.55	Baseline	V4XA	06/01/24 02:58
PCB-70	29.55	Baseline	V4XA	06/01/24 02:58
PCB-74	29.55	Baseline	V4XA	06/01/24 02:58
PCB-76	29.55	Baseline	V4XA	06/01/24 02:58
PCB-109	32.68	Baseline	V4XA	06/01/24 02:58
PCB-119	32.68	Baseline	V4XA	06/01/24 02:58
PCB-125	32.68	Baseline	V4XA	06/01/24 02:58
PCB-86	32.68	Baseline	V4XA	06/01/24 02:58
PCB-86/87/97/109/119/125	32.68	Baseline	V4XA	06/01/24 02:58
PCB-87	32.68	Baseline	V4XA	06/01/24 02:58
PCB-97	32.68	Baseline	V4XA	06/01/24 02:58
PCB-110	33.59	Baseline	V4XA	06/01/24 02:59
PCB-110/115	33.59	Baseline	V4XA	06/01/24 02:59

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 20:12 Lab File ID: d2240531pi5.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-115	33.59	Baseline	V4XA	06/01/24 02:59
PCB-135	34.51	Baseline	V4XA	06/01/24 02:59
PCB-135/151	34.51	Baseline	V4XA	06/01/24 02:59
PCB-151	34.51	Baseline	V4XA	06/01/24 02:59
PCB-129	39.72	Baseline	V4XA	06/01/24 03:00
PCB-129/138/160/163	39.72	Baseline	V4XA	06/01/24 03:00
PCB-138	39.72	Baseline	V4XA	06/01/24 03:00
PCB-160	39.72	Baseline	V4XA	06/01/24 03:00
PCB-163	39.72	Baseline	V4XA	06/01/24 03:00
PCB-158	40.10	Invalid Compound ID	V4XA	06/01/24 03:01
PCB-183	41.69	Invalid Compound ID	V4XA	06/01/24 03:01
PCB-183/185	41.69	Invalid Compound ID	V4XA	06/01/24 03:01
PCB-185	41.69	Invalid Compound ID	V4XA	06/01/24 03:01

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D

Analysis Batch Number: 87130

Lab Sample ID: IC 140-87130/6

Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 21:13

Lab File ID: d2240531pi6.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-54L	20.16	Baseline	V4XA	06/01/24 03:03
PCB-21	23.10	Baseline	V4XA	06/01/24 03:03
PCB-21/33	23.10	Baseline	V4XA	06/01/24 03:03
PCB-33	23.10	Baseline	V4XA	06/01/24 03:03
PCB-45	23.10	Baseline	V4XA	06/01/24 03:03
PCB-45/51	23.10	Baseline	V4XA	06/01/24 03:03
PCB-51	23.10	Baseline	V4XA	06/01/24 03:03
PCB-43	24.90	Invalid Compound ID	V4XA	06/01/24 03:04
PCB-43/73	24.90	Invalid Compound ID	V4XA	06/01/24 03:04
PCB-73	24.90	Invalid Compound ID	V4XA	06/01/24 03:04
PCB-49	25.20	Split Peak	V4XA	06/01/24 03:04
PCB-49/69	25.20	Split Peak	V4XA	06/01/24 03:04
PCB-69	25.20	Split Peak	V4XA	06/01/24 03:04
PCB-40	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-40/41/71	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-41	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-71	26.77	Invalid Compound ID	V4XA	06/01/24 03:05
PCB-121	30.66	Baseline	V4XA	06/01/24 03:06
PCB-92	31.03	Baseline	V4XA	06/01/24 03:06
PCB-109	32.68	Baseline	V4XA	06/01/24 03:06
PCB-119	32.68	Baseline	V4XA	06/01/24 03:06
PCB-125	32.68	Baseline	V4XA	06/01/24 03:06
PCB-86	32.68	Baseline	V4XA	06/01/24 03:06
PCB-86/87/97/109/119/125	32.68	Baseline	V4XA	06/01/24 03:06
PCB-87	32.68	Baseline	V4XA	06/01/24 03:06
PCB-97	32.68	Baseline	V4XA	06/01/24 03:06
PCB-135	34.51	Baseline	V4XA	06/01/24 03:06
PCB-135/151	34.51	Baseline	V4XA	06/01/24 03:06
PCB-151	34.51	Baseline	V4XA	06/01/24 03:06
PCB-129	39.72	Baseline	V4XA	06/01/24 03:07

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: D2D Analysis Batch Number: 87130  
 Lab Sample ID: IC 140-87130/6 Client Sample ID: \_\_\_\_\_  
 Date Analyzed: 05/31/24 21:13 Lab File ID: d2240531pi6.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-129/138/160/163	39.72	Baseline	V4XA	06/01/24 03:07
PCB-138	39.72	Baseline	V4XA	06/01/24 03:07
PCB-160	39.72	Baseline	V4XA	06/01/24 03:07
PCB-163	39.72	Baseline	V4XA	06/01/24 03:07
PCB-183	41.69	Invalid Compound ID	V4XA	06/01/24 03:07
PCB-183/185	41.69	Invalid Compound ID	V4XA	06/01/24 03:07
PCB-185	41.69	Invalid Compound ID	V4XA	06/01/24 03:07
PCB-206	53.96	Baseline	V4XA	06/01/24 03:12



HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: ICV 140-87130/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 22:58 Lab File ID: d2240531icv.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-21/33	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-33	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-45	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-45/51	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-51	23.10	Incomplete Integration	P0IK	06/01/24 11:07
PCB-43	24.92	Incomplete Integration	P0IK	06/01/24 11:08
PCB-43/73	24.92	Incomplete Integration	P0IK	06/01/24 11:08
PCB-73	24.92	Incomplete Integration	P0IK	06/01/24 11:08
PCB-40	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-40/41/71	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-41	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-71	26.77	Incomplete Integration	P0IK	06/01/24 11:08
PCB-102	29.05	Incomplete Integration	P0IK	06/01/24 11:09
PCB-98	29.05	Incomplete Integration	P0IK	06/01/24 11:09
PCB-98/102	29.05	Incomplete Integration	P0IK	06/01/24 11:09
PCB-109	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-119	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-125	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-86	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-86/87/97/109/119/125	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-87	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-97	32.68	Incomplete Integration	P0IK	06/01/24 11:09
PCB-135	34.56	Incomplete Integration	P0IK	06/01/24 11:10
PCB-135/151	34.56	Incomplete Integration	P0IK	06/01/24 11:10
PCB-151	34.56	Incomplete Integration	P0IK	06/01/24 11:10
PCB-129	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-129/138/160/163	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-138	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-160	39.71	Incomplete Integration	P0IK	06/01/24 11:10

# HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 87130

Lab Sample ID: ICV 140-87130/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/31/24 22:58 Lab File ID: d2240531icv.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-163	39.71	Incomplete Integration	P0IK	06/01/24 11:10
PCB-183	41.67	Incomplete Integration	P0IK	06/01/24 11:11
PCB-183/185	41.67	Incomplete Integration	P0IK	06/01/24 11:11
PCB-185	41.67	Incomplete Integration	P0IK	06/01/24 11:11

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 88205

Lab Sample ID: WDMCCV 140-88205/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/27/24 22:00 Lab File ID: d2240627c2a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.24	Baseline	Q9DB	06/27/24 23:12
PCB-21/33	23.24	Baseline	Q9DB	06/27/24 23:12
PCB-33	23.24	Baseline	Q9DB	06/27/24 23:12
PCB-43	24.98	Baseline	Q9DB	06/27/24 23:13
PCB-43/73	24.98	Baseline	Q9DB	06/27/24 23:13
PCB-73	24.98	Baseline	Q9DB	06/27/24 23:13
PCB-121	30.69	Baseline	Q9DB	06/27/24 23:16
PCB-92	31.07	Baseline	Q9DB	06/27/24 23:16
PCB-109	32.72	Baseline	Q9DB	06/27/24 23:16
PCB-119	32.72	Baseline	Q9DB	06/27/24 23:16
PCB-125	32.72	Baseline	Q9DB	06/27/24 23:16
PCB-86	32.72	Baseline	Q9DB	06/27/24 23:16
PCB-86/87/97/109/119/125	32.72	Baseline	Q9DB	06/27/24 23:16
PCB-87	32.72	Baseline	Q9DB	06/27/24 23:16
PCB-97	32.72	Baseline	Q9DB	06/27/24 23:16
PCB-135	34.54	Baseline	Q9DB	06/27/24 23:17
PCB-135/151	34.54	Baseline	Q9DB	06/27/24 23:17
PCB-151	34.54	Baseline	Q9DB	06/27/24 23:17
PCB-129	39.74	Baseline	Q9DB	06/27/24 23:18
PCB-129/138/160/163	39.74	Baseline	Q9DB	06/27/24 23:18
PCB-138	39.74	Baseline	Q9DB	06/27/24 23:18
PCB-160	39.74	Baseline	Q9DB	06/27/24 23:18
PCB-163	39.74	Baseline	Q9DB	06/27/24 23:18
PCB-183	41.68	Baseline	Q9DB	06/27/24 23:18
PCB-183/185	41.68	Baseline	Q9DB	06/27/24 23:18
PCB-185	41.68	Baseline	Q9DB	06/27/24 23:18
PCB-170	46.52	Baseline	Q9DB	06/27/24 23:19

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: D2D Analysis Batch Number: 88205  
 Lab Sample ID: LCS 140-87624/19-B Client Sample ID: \_\_\_\_\_  
 Date Analyzed: 06/27/24 23:11 Lab File ID: lcs140-8762419-b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-138	39.73	Baseline	Q9DB	06/28/24 00:28

Lab Sample ID: LCSD 140-87624/20-B Client Sample ID: \_\_\_\_\_  
 Date Analyzed: 06/28/24 00:12 Lab File ID: lcsd140-8762420-b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-138	39.74	Baseline	Q9DB	06/28/24 01:28

Lab Sample ID: MB 140-87624/21-B Client Sample ID: \_\_\_\_\_  
 Date Analyzed: 06/28/24 02:59 Lab File ID: mb140-8762421-b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-15		Invalid Compound ID	P0IK	06/28/24 11:35
PCB-8	16.88	Invalid Compound ID	P0IK	06/28/24 11:35
PCB-18	19.01	Incomplete Integration	P0IK	06/28/24 11:36
PCB-28	22.95	Incomplete Integration	P0IK	06/28/24 11:36
PCB-37	26.99	Incomplete Integration	P0IK	06/28/24 11:37
PCB-118	36.58	Incomplete Integration	P0IK	06/28/24 11:39
PCB-138	39.69	Incomplete Integration	P0IK	06/28/24 11:40
PCB-128	41.02	Incomplete Integration	P0IK	06/28/24 11:41
PCB-167	42.71	Incomplete Integration	P0IK	06/28/24 11:41
PCB-180	45.23	Incomplete Integration	P0IK	06/28/24 11:42
PCB-169	47.10	Incomplete Integration	P0IK	06/28/24 11:41
PCB-209	55.54	Incomplete Integration	P0IK	06/28/24 11:43

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 88205

Lab Sample ID: 140-36940-1 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED

Date Analyzed: 06/28/24 04:00 Lab File ID: 140-36940-a-1-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-18	19.13	Incomplete Integration	P0IK	06/28/24 11:46
PCB-128	40.99	Incomplete Integration	P0IK	06/28/24 11:54
PCB-156	43.92	Incomplete Integration	P0IK	06/28/24 11:54
PCB-157	43.92	Incomplete Integration	P0IK	06/28/24 11:54
PCB-180	45.25	Incomplete Integration	P0IK	06/28/24 11:57
PCB-170	46.56	Incomplete Integration	P0IK	06/28/24 11:58

Lab Sample ID: 140-36940-2 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED

Date Analyzed: 06/28/24 05:01 Lab File ID: 140-36940-a-2-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.91	Incomplete Integration	P0IK	06/28/24 12:05
PCB-8	16.92	Incomplete Integration	P0IK	06/28/24 12:05
PCB-18	19.22	Incomplete Integration	P0IK	06/28/24 12:54
PCB-52	24.86	Incomplete Integration	P0IK	06/28/24 12:12
PCB-44	25.89	Incomplete Integration	P0IK	06/28/24 12:12
PCB-153	38.51	Incomplete Integration	P0IK	06/28/24 12:16
PCB-138	39.76	Incomplete Integration	P0IK	06/28/24 12:16
PCB-180	45.29	Incomplete Integration	P0IK	06/28/24 12:18

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 88219

Lab Sample ID: WDMCCV 140-88219/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/28/24 09:53 Lab File ID: d2240628c1b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-21	23.14	Incomplete Integration	OWJ7	06/28/24 10:55
PCB-21/33	23.14	Incomplete Integration	OWJ7	06/28/24 10:55
PCB-33	23.14	Incomplete Integration	OWJ7	06/28/24 10:55
PCB-45	23.14	Incomplete Integration	OWJ7	06/28/24 10:55
PCB-45/51	23.14	Incomplete Integration	OWJ7	06/28/24 10:55
PCB-51	23.14	Incomplete Integration	OWJ7	06/28/24 10:55
PCB-43	24.93	Incomplete Integration	OWJ7	06/28/24 10:55
PCB-43/73	24.93	Incomplete Integration	OWJ7	06/28/24 10:55
PCB-73	24.93	Incomplete Integration	OWJ7	06/28/24 10:55
PCB-40	26.81	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-40/41/71	26.81	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-41	26.81	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-71	26.81	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-109	32.69	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-119	32.69	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-125	32.69	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-86	32.69	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-86/87/97/109/119/125	32.69	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-87	32.69	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-97	32.69	Incomplete Integration	OWJ7	06/28/24 10:56
PCB-135	34.52	Incomplete Integration	OWJ7	06/28/24 10:54
PCB-135/151	34.52	Incomplete Integration	OWJ7	06/28/24 10:54
PCB-151	34.52	Incomplete Integration	OWJ7	06/28/24 10:54
PCB-129	39.71	Incomplete Integration	OWJ7	06/28/24 10:57
PCB-129/138/160/163	39.71	Incomplete Integration	OWJ7	06/28/24 10:57
PCB-138	39.71	Incomplete Integration	OWJ7	06/28/24 10:57
PCB-160	39.71	Incomplete Integration	OWJ7	06/28/24 10:57
PCB-163	39.71	Incomplete Integration	OWJ7	06/28/24 10:57
PCB-183	41.67	Incomplete Integration	OWJ7	06/28/24 10:57
PCB-183/185	41.67	Incomplete Integration	OWJ7	06/28/24 10:57

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: D2D Analysis Batch Number: 88219  
 Lab Sample ID: WDMCCV 140-88219/1 Client Sample ID: \_\_\_\_\_  
 Date Analyzed: 06/28/24 09:53 Lab File ID: d2240628c1b.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-185	41.67	Incomplete Integration	OWJ7	06/28/24 10:57

Lab Sample ID: 140-36940-14 Client Sample ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
 Date Analyzed: 06/28/24 12:47 Lab File ID: 140-36940-a-14-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-206		Invalid Compound ID	P0IK	06/28/24 14:21
PCB-8	16.90	Incomplete Integration	P0IK	06/28/24 14:14
PCB-28	22.96	Incomplete Integration	P0IK	06/28/24 14:16
PCB-101	31.65	Incomplete Integration	P0IK	06/28/24 14:17
PCB-105	37.81	Incomplete Integration	P0IK	06/28/24 14:18
PCB-138	39.67	Incomplete Integration	P0IK	06/28/24 14:19
PCB-180	45.25	Incomplete Integration	P0IK	06/28/24 14:20
PCB-195	49.40	Incomplete Integration	P0IK	06/28/24 14:20

Lab Sample ID: 140-36940-3 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
 Date Analyzed: 06/28/24 13:48 Lab File ID: 140-36940-a-3-c5x.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8	16.88	Incomplete Integration	P0IK	06/28/24 14:53
PCB-18	19.07	Incomplete Integration	P0IK	06/28/24 14:55
PCB-44	25.84	Incomplete Integration	P0IK	06/28/24 14:57
PCB-66	29.89	Incomplete Integration	P0IK	06/28/24 15:02
PCB-153	38.50	Incomplete Integration	P0IK	06/28/24 15:16
PCB-138	39.74	Incomplete Integration	P0IK	06/28/24 15:17

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 88219

Lab Sample ID: 140-36940-5 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED

Date Analyzed: 06/28/24 15:51 Lab File ID: 140-36940-a-5-c5x.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-18	19.05	Incomplete Integration	P0IK	06/28/24 17:29
PCB-138	39.71	Incomplete Integration	P0IK	06/28/24 17:34
PCB-187	41.06	Incomplete Integration	P0IK	06/28/24 17:34

Lab Sample ID: 140-36940-6 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED

Date Analyzed: 06/28/24 16:52 Lab File ID: 140-36940-a-6-c5x.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-187		Invalid Compound ID	P0IK	06/29/24 11:32
PCB-18	19.07	Incomplete Integration	P0IK	06/29/24 11:29
PCB-52	24.81	Incomplete Integration	P0IK	06/29/24 11:30

Lab Sample ID: 140-36940-7 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

Date Analyzed: 06/28/24 17:53 Lab File ID: 140-36940-a-7-c5x.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8L	16.83	Incomplete Integration	P0IK	06/29/24 11:37
PCB-18	19.01	Incomplete Integration	P0IK	06/29/24 11:38
PCB-15L	19.91	Incomplete Integration	P0IK	06/29/24 11:37
PCB-28	22.92	Incomplete Integration	P0IK	06/29/24 11:39
PCB-44	25.79	Incomplete Integration	P0IK	06/29/24 11:40
PCB-101	31.59	Incomplete Integration	P0IK	06/29/24 11:42
PCB-153	38.43	Incomplete Integration	P0IK	06/29/24 11:45
PCB-138	39.65	Incomplete Integration	P0IK	06/29/24 11:45



# HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D

Analysis Batch Number: 88242

Lab Sample ID: WDMCCV 140-88242/1

Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/28/24 23:29

Lab File ID: d2240628c2a.d

GC Column: SPB-Octyl

ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-54L	20.24	Baseline	V4XA	06/29/24 00:31
PCB-21	23.15	Baseline	V4XA	06/29/24 00:31
PCB-21/33	23.15	Baseline	V4XA	06/29/24 00:31
PCB-33	23.15	Baseline	V4XA	06/29/24 00:31
PCB-45	23.15	Baseline	V4XA	06/29/24 00:31
PCB-45/51	23.15	Baseline	V4XA	06/29/24 00:31
PCB-51	23.15	Baseline	V4XA	06/29/24 00:31
PCB-43	24.94	Baseline	V4XA	06/29/24 00:32
PCB-43/73	24.94	Baseline	V4XA	06/29/24 00:32
PCB-73	24.94	Baseline	V4XA	06/29/24 00:32
PCB-40	26.82	Baseline	V4XA	06/29/24 00:32
PCB-40/41/71	26.82	Baseline	V4XA	06/29/24 00:32
PCB-41	26.82	Baseline	V4XA	06/29/24 00:32
PCB-71	26.82	Baseline	V4XA	06/29/24 00:32
PCB-102	29.06	Baseline	V4XA	06/29/24 00:32
PCB-98	29.06	Baseline	V4XA	06/29/24 00:32
PCB-98/102	29.06	Baseline	V4XA	06/29/24 00:32
PCB-109	32.69	Baseline	V4XA	06/29/24 00:33
PCB-119	32.69	Baseline	V4XA	06/29/24 00:33
PCB-125	32.69	Baseline	V4XA	06/29/24 00:33
PCB-86	32.69	Baseline	V4XA	06/29/24 00:33
PCB-86/87/97/109/119/125	32.69	Baseline	V4XA	06/29/24 00:33
PCB-87	32.69	Baseline	V4XA	06/29/24 00:33
PCB-97	32.69	Baseline	V4XA	06/29/24 00:33
PCB-135	34.50	Baseline	V4XA	06/29/24 00:33
PCB-135/151	34.50	Baseline	V4XA	06/29/24 00:33
PCB-151	34.50	Baseline	V4XA	06/29/24 00:33
PCB-142	36.38	Baseline	V4XA	06/29/24 00:34
PCB-132	36.71	Baseline	V4XA	06/29/24 00:34
PCB-161	37.97	Baseline	V4XA	06/29/24 00:34

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 88242

Lab Sample ID: WDMCCV 140-88242/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/28/24 23:29 Lab File ID: d2240628c2a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-153	38.47	Baseline	V4XA	06/29/24 00:34
PCB-153/168	38.47	Baseline	V4XA	06/29/24 00:34
PCB-168	38.47	Baseline	V4XA	06/29/24 00:34
PCB-129	39.70	Baseline	V4XA	06/29/24 00:34
PCB-129/138/160/163	39.70	Baseline	V4XA	06/29/24 00:34
PCB-138	39.70	Baseline	V4XA	06/29/24 00:34
PCB-160	39.70	Baseline	V4XA	06/29/24 00:34
PCB-163	39.70	Baseline	V4XA	06/29/24 00:34
PCB-183	41.64	Invalid Compound ID	V4XA	06/29/24 00:35
PCB-183/185	41.64	Invalid Compound ID	V4XA	06/29/24 00:35
PCB-185	41.64	Invalid Compound ID	V4XA	06/29/24 00:35

Lab Sample ID: 140-36940-8 Client Sample ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED

Date Analyzed: 06/29/24 03:19 Lab File ID: 140-36940-a-8-c.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8	16.87	Incomplete Integration	P0IK	06/29/24 15:44
PCB-44	25.79	Incomplete Integration	P0IK	06/29/24 15:45
PCB-153	38.46	Incomplete Integration	P0IK	06/29/24 16:03
PCB-138	39.70	Incomplete Integration	P0IK	06/29/24 16:04
PCB-187	41.10	Incomplete Integration	P0IK	06/29/24 16:05
PCB-167	42.71	Incomplete Integration	P0IK	06/29/24 16:04
PCB-180	45.23	Incomplete Integration	P0IK	06/29/24 16:06
PCB-169	47.12	Incomplete Integration	P0IK	06/29/24 16:04
PCB-195	49.38	Incomplete Integration	P0IK	06/29/24 16:07
PCB-209	55.52	Incomplete Integration	P0IK	06/29/24 16:07

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 88362

Lab Sample ID: WDMCCV 140-88362/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/02/24 17:01 Lab File ID: d2240702c1a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-54L	20.23	Baseline	V4XA	07/02/24 19:10
PCB-25	22.35	Baseline	V4XA	07/02/24 19:09
PCB-31	22.67	Baseline	V4XA	07/02/24 19:09
PCB-45	23.15	Baseline	V4XA	07/02/24 19:10
PCB-45/51	23.15	Baseline	V4XA	07/02/24 19:10
PCB-51	23.15	Baseline	V4XA	07/02/24 19:10
PCB-21	23.21	Baseline	V4XA	07/02/24 19:09
PCB-21/33	23.21	Baseline	V4XA	07/02/24 19:09
PCB-33	23.21	Baseline	V4XA	07/02/24 19:09
PCB-43	24.94	Baseline	V4XA	07/02/24 19:10
PCB-43/73	24.94	Baseline	V4XA	07/02/24 19:10
PCB-73	24.94	Baseline	V4XA	07/02/24 19:10
PCB-40	26.81	Baseline	V4XA	07/02/24 19:11
PCB-40/41/71	26.81	Baseline	V4XA	07/02/24 19:11
PCB-41	26.81	Baseline	V4XA	07/02/24 19:11
PCB-71	26.81	Baseline	V4XA	07/02/24 19:11
PCB-102	29.05	Baseline	V4XA	07/02/24 19:11
PCB-98	29.05	Baseline	V4XA	07/02/24 19:11
PCB-98/102	29.05	Baseline	V4XA	07/02/24 19:11
PCB-109	32.68	Baseline	V4XA	07/02/24 19:12
PCB-119	32.68	Baseline	V4XA	07/02/24 19:12
PCB-125	32.68	Baseline	V4XA	07/02/24 19:12
PCB-86	32.68	Baseline	V4XA	07/02/24 19:12
PCB-86/87/97/109/119/125	32.68	Baseline	V4XA	07/02/24 19:12
PCB-87	32.68	Baseline	V4XA	07/02/24 19:12
PCB-97	32.68	Baseline	V4XA	07/02/24 19:12
PCB-135	34.50	Baseline	V4XA	07/02/24 19:12
PCB-135/151	34.50	Baseline	V4XA	07/02/24 19:12
PCB-151	34.50	Baseline	V4XA	07/02/24 19:12
PCB-129	39.69	Baseline	V4XA	07/02/24 19:13

HI-RES PCBS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Analysis Batch Number: 88362

Lab Sample ID: WDMCCV 140-88362/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/02/24 17:01 Lab File ID: d2240702c1a.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-129/138/160/163	39.69	Baseline	V4XA	07/02/24 19:13
PCB-138	39.69	Baseline	V4XA	07/02/24 19:13
PCB-160	39.69	Baseline	V4XA	07/02/24 19:13
PCB-163	39.69	Baseline	V4XA	07/02/24 19:13
PCB-183	41.64	Invalid Compound ID	V4XA	07/02/24 19:14
PCB-183/185	41.64	Invalid Compound ID	V4XA	07/02/24 19:14
PCB-185	41.64	Invalid Compound ID	V4XA	07/02/24 19:14

Lab Sample ID: 140-36940-4 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED

Date Analyzed: 07/02/24 19:57 Lab File ID: 140-36940-a-4-e.d GC Column: SPB-Octyl ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-8	16.83	Split Peak	V4XA	07/02/24 21:27
PCB-18	19.01	Baseline	V4XA	07/02/24 21:27
PCB-28	22.93	Baseline	V4XA	07/02/24 21:29
PCB-52	24.79	Split Peak	V4XA	07/02/24 21:31
PCB-101	31.59	Baseline	V4XA	07/02/24 21:33
PCB-77	34.20	Baseline	V4XA	07/02/24 21:32
PCB-123	36.20	Split Peak	V4XA	07/02/24 21:34
PCB-118	36.58	Baseline	V4XA	07/02/24 21:35
PCB-105	37.76	Baseline	V4XA	07/02/24 21:35
PCB-153	38.45	Baseline	V4XA	07/02/24 21:37

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Analysis Batch Number: 87843

Lab Sample ID: IC 140-87843/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/19/24 16:34 Lab File ID: d3240619ic1.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz (a,h) anthracene	58.09	Incomplete Integration	F9EE	06/19/24 18:15
13C12-Benzo (ghi) perylene	58.47	Incomplete Integration	F9EE	06/19/24 18:14
Benzo [g,h,i] perylene	58.49	Incomplete Integration	F9EE	06/19/24 18:14

Lab Sample ID: IC 140-87843/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/19/24 17:38 Lab File ID: d3240619ic2.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno (1,2,3-cd) pyrene	58.03	Incomplete Integration	F9EE	06/19/24 18:48
13C6-Dibenz (a,h) anthracene	58.11	Incomplete Integration	F9EE	06/19/24 18:49
13C12-Benzo (ghi) perylene	58.50	Incomplete Integration	F9EE	06/19/24 18:49
Benzo [g,h,i] perylene	58.51	Incomplete Integration	F9EE	06/19/24 18:49

Lab Sample ID: IC 140-87843/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/19/24 18:42 Lab File ID: d3240619ic3.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz (a,h) anthracene	58.11	Incomplete Integration	F9EE	06/20/24 09:34
Dibenz (a,h) anthracene	58.11	Incomplete Integration	F9EE	06/20/24 09:34
13C12-Benzo (ghi) perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:35
Benzo [g,h,i] perylene	58.51	Incomplete Integration	F9EE	06/20/24 09:35

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: D3PAH Analysis Batch Number: 87843  
 Lab Sample ID: IC 140-87843/4 Client Sample ID: \_\_\_\_\_  
 Date Analyzed: 06/19/24 19:47 Lab File ID: d3240619ic4.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno(1,2,3-cd)pyrene	58.01	Incomplete Integration	F9EE	06/20/24 09:35
13C6-Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:35
Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:35
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:35
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:36

Lab Sample ID: IC 140-87843/5 Client Sample ID: \_\_\_\_\_  
 Date Analyzed: 06/19/24 20:51 Lab File ID: d3240619ic5.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:36
Dibenz(a,h)anthracene	58.09	Incomplete Integration	F9EE	06/20/24 09:36
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:36
Benzo[g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:36

Lab Sample ID: IC 140-87843/6 Client Sample ID: \_\_\_\_\_  
 Date Analyzed: 06/19/24 21:56 Lab File ID: d3240619ic6.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz(a,h)anthracene	58.08	Incomplete Integration	F9EE	06/20/24 09:37
Dibenz(a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:37
13C12-Benzo(ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:37
Benzo[g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:37

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Analysis Batch Number: 87843

Lab Sample ID: IC 140-87843/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/19/24 23:00 Lab File ID: d3240619ic7.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Indeno (1,2,3-cd)pyrene	58.02	Incomplete Integration	F9EE	06/20/24 09:37
13C6-Dibenz (a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
Dibenz (a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
13C12-Benzo (ghi)perylene	58.49	Incomplete Integration	F9EE	06/20/24 09:38
Benzo [g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:38

Lab Sample ID: IC 140-87843/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/20/24 00:04 Lab File ID: d3240619ic8.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Dibenz (a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
Dibenz (a,h)anthracene	58.10	Incomplete Integration	F9EE	06/20/24 09:38
13C12-Benzo (ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:39
Benzo [g,h,i]perylene	58.50	Incomplete Integration	F9EE	06/20/24 09:39

Lab Sample ID: IC 140-87843/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/20/24 01:09 Lab File ID: d3240619ic9.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno [1,2,3-cd]pyrene	58.01	Incomplete Integration	F9EE	06/20/24 09:39
13C6-Dibenz (a,h)anthracene	58.07	Incomplete Integration	F9EE	06/20/24 09:39
Dibenz (a,h)anthracene	58.07	Incomplete Integration	F9EE	06/20/24 09:39
13C12-Benzo (ghi)perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:39
Benzo [g,h,i]perylene	58.48	Incomplete Integration	F9EE	06/20/24 09:39

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Instrument ID: D3PAH Analysis Batch Number: 87843  
 Lab Sample ID: ICV 140-87843/10 Client Sample ID: \_\_\_\_\_  
 Date Analyzed: 06/20/24 02:46 Lab File ID: d3240619icv.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C6-Naphthalene	11.67	Incomplete Integration	F9EE	06/20/24 09:48
Naphthalene	11.67	Incomplete Integration	F9EE	06/20/24 09:48



HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Analysis Batch Number: 88561

Lab Sample ID: MB 140-87620/21-B Client Sample ID: \_\_\_\_\_

Date Analyzed: 07/10/24 15:12 Lab File ID: MB140-8762021-B.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene	13.71	Incomplete Integration	TT6I	07/11/24 07:20
Acenaphthylene	16.56	Incomplete Integration	TT6I	07/11/24 07:21
Fluorene	19.51	Incomplete Integration	TT6I	07/11/24 07:22
Pyrene	35.23	Incomplete Integration	TT6I	07/11/24 07:21
Benzo[b]fluoranthene	54.42	Incomplete Integration	TT6I	07/11/24 07:21
Benzo[k]fluoranthene	54.55	Incomplete Integration	TT6I	07/11/24 07:22
Benzo[e]pyrene	55.41	Incomplete Integration	TT6I	07/11/24 07:20
Indeno[1,2,3-cd]pyrene	57.89	Incomplete Integration	TT6I	07/11/24 07:20
Dibenz (a,h) anthracene	57.95	Incomplete Integration	TT6I	07/11/24 07:21
Benzo[g,h,i]perylene	58.34	Incomplete Integration	TT6I	07/11/24 07:21

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Analysis Batch Number: 88812

Lab Sample ID: 140-36940-1 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED

Date Analyzed: 07/16/24 19:03 Lab File ID: 140-36940-a-1-d\_20240716 GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	16.60	Baseline	Q9DB	07/16/24 20:13
Perylene	55.75	Baseline	Q9DB	07/16/24 20:14
Dibenz (a,h) anthracene	57.98	Baseline	Q9DB	07/16/24 20:14

Lab Sample ID: 140-36940-2 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED

Date Analyzed: 07/16/24 20:07 Lab File ID: 140-36940-a-2-d\_20240716 GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	16.63	Baseline	Q9DB	07/16/24 21:12
Benzo[b]fluoranthene	54.49	Baseline	Q9DB	07/16/24 21:13
Benzo[k]fluoranthene	54.63	Baseline	Q9DB	07/16/24 21:13
13C6-Indeno (1,2,3-cd) pyrene	57.93	Baseline	Q9DB	07/16/24 21:14
Indeno[1,2,3-cd]pyrene	57.93	Baseline	Q9DB	07/16/24 21:14
Dibenz (a,h) anthracene	58.01	Baseline	Q9DB	07/16/24 21:14
Benzo[g,h,i]perylene	58.40	Baseline	Q9DB	07/16/24 21:14

Lab Sample ID: 140-36940-3 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED

Date Analyzed: 07/16/24 21:12 Lab File ID: 140-36940-a-3-d.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Perylene	55.76	Baseline	Q9DB	07/17/24 17:10
Indeno[1,2,3-cd]pyrene	57.91	Baseline	Q9DB	07/17/24 17:11
Benzo[g,h,i]perylene	58.37	Baseline	Q9DB	07/17/24 17:11

## HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No.:

Instrument ID: D3PAH

Analysis Batch Number: 88831

Lab Sample ID: 140-36940-14

Client Sample ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER

Date Analyzed: 07/17/24 02:24

Lab File ID: 140-36940-a-14-d.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Anthracene	25.24	Incomplete Integration	F9EE	07/17/24 13:23
Benzo[b]fluoranthene	54.45	Incomplete Integration	F9EE	07/17/24 13:23
Benzo[k]fluoranthene	54.59	Incomplete Integration	F9EE	07/17/24 13:24
Benzo[a]pyrene	55.57	Incomplete Integration	F9EE	07/17/24 13:25
Perylene	55.75	Incomplete Integration	F9EE	07/17/24 13:24
13C6-Indeno(1,2,3-cd)pyrene	57.87	Incomplete Integration	F9EE	07/17/24 13:25
Indeno[1,2,3-cd]pyrene	57.87	Incomplete Integration	F9EE	07/17/24 13:26
Dibenz(a,h)anthracene	57.96	Incomplete Integration	F9EE	07/17/24 13:25
Benzo[g,h,i]perylene	58.35	Incomplete Integration	F9EE	07/17/24 13:26

Lab Sample ID: 140-36940-5

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED

Date Analyzed: 07/17/24 04:33

Lab File ID: 140-36940-a-5-d.d

GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthene	17.32	Incomplete Integration	F9EE	07/17/24 16:07
Benzo[b]fluoranthene	54.50	Incomplete Integration	F9EE	07/17/24 16:07
13C4-Benzo(e)pyrene	55.48	Incomplete Integration	F9EE	07/17/24 16:08
13C4-Benzo(a)pyrene	55.71	Incomplete Integration	F9EE	07/17/24 16:08
Perylene	55.83	Incomplete Integration	F9EE	07/17/24 16:08
Indeno[1,2,3-cd]pyrene	57.96	Incomplete Integration	F9EE	07/17/24 16:09
Dibenz(a,h)anthracene	58.02	Incomplete Integration	F9EE	07/17/24 16:09
Benzo[g,h,i]perylene	58.41	Incomplete Integration	F9EE	07/17/24 16:09

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Analysis Batch Number: 88831

Lab Sample ID: 140-36940-7 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

Date Analyzed: 07/17/24 06:42 Lab File ID: 140-36940-a-7-d.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	16.60	Incomplete Integration	F9EE	07/17/24 16:03
Acenaphthene	17.30	Incomplete Integration	F9EE	07/17/24 16:03
Benzo[a]anthracene	45.78	Incomplete Integration	F9EE	07/17/24 16:04
Chrysene	46.03	Incomplete Integration	F9EE	07/17/24 16:04
13C4-Benzo(e)pyrene	55.43	Incomplete Integration	F9EE	07/17/24 16:22
Benzo[e]pyrene	55.43	Incomplete Integration	F9EE	07/17/24 16:05
13C4-Benzo(a)pyrene	55.59	Incomplete Integration	F9EE	07/17/24 16:05
Benzo[a]pyrene	55.59	Incomplete Integration	F9EE	07/17/24 16:05
Perylene	55.77	Incomplete Integration	F9EE	07/17/24 16:05
13C6-Indeno(1,2,3-cd)pyrene	57.88	Incomplete Integration	F9EE	07/17/24 16:05

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Analysis Batch Number: 88872

Lab Sample ID: 140-36940-8 Client Sample ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED

Date Analyzed: 07/17/24 16:04 Lab File ID: 140-36940-a-8-da.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylnaphthalene	13.77	Baseline	Q9DB	07/17/24 20:45
13C6-Acenaphthylene	16.63	Baseline	Q9DB	07/17/24 20:45
13C6-Acenaphthene	17.34	Baseline	Q9DB	07/17/24 20:46
Fluoranthene	33.70	Baseline	Q9DB	07/17/24 20:46
Benzo[b]fluoranthene	54.51	Baseline	Q9DB	07/17/24 20:47
Benzo[k]fluoranthene	54.64	Baseline	Q9DB	07/17/24 20:47
Benzo[e]pyrene	55.47	Baseline	Q9DB	07/17/24 20:47
Benzo[a]pyrene	55.60	Baseline	Q9DB	07/17/24 20:48
Perylene	55.86	Baseline	Q9DB	07/17/24 20:48
Indeno[1,2,3-cd]pyrene	57.91	Baseline	Q9DB	07/17/24 20:48
Dibenz (a,h) anthracene	57.99	Baseline	Q9DB	07/17/24 20:48
Benzo[g,h,i]perylene	58.38	Baseline	Q9DB	07/17/24 20:48

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Analysis Batch Number: 88945

Lab Sample ID: 140-36940-6 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED

Date Analyzed: 07/19/24 03:06 Lab File ID: 140-36940-a-6-d\_20240719 GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	16.63	Incomplete Integration	TT6I	07/20/24 10:21
Acenaphthene	17.32	Incomplete Integration	TT6I	07/20/24 10:22
Phenanthrene	24.96	Incomplete Integration	TT6I	07/20/24 10:21
Anthracene	25.28	Incomplete Integration	TT6I	07/20/24 10:19
13C6-Fluoranthrene	33.66	Incomplete Integration	TT6I	07/20/24 10:21
Pyrene	35.35	Incomplete Integration	TT6I	07/20/24 10:21
Benzo[a]anthracene	45.88	Incomplete Integration	TT6I	07/20/24 10:21
Chrysene	46.08	Incomplete Integration	TT6I	07/20/24 10:21
Benzo[k]fluoranthene	54.62	Incomplete Integration	TT6I	07/20/24 10:22
Benzo[e]pyrene	55.48	Incomplete Integration	TT6I	07/20/24 10:20
Perylene	55.88	Incomplete Integration	TT6I	07/20/24 10:20
13C6-Indeno(1,2,3-cd)pyrene	57.94	Incomplete Integration	TT6I	07/20/24 10:20
Indeno[1,2,3-cd]pyrene	57.94	Incomplete Integration	TT6I	07/20/24 10:20
Dibenz(a,h)anthracene	58.02	Incomplete Integration	TT6I	07/20/24 10:21
Benzo[g,h,i]perylene	58.41	Incomplete Integration	TT6I	07/20/24 10:21

HI-RES PAHS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Analysis Batch Number: 89185

Lab Sample ID: 140-36940-4 Client Sample ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED

Date Analyzed: 07/25/24 01:56 Lab File ID: 140-36940-a-4-f.d GC Column: Rxi-5SilMS 2 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acenaphthylene	16.63	Incomplete Integration	TT6I	07/26/24 09:21
Acenaphthene	17.33	Incomplete Integration	TT6I	07/26/24 09:19
Chrysene	46.15	Incomplete Integration	TT6I	07/26/24 09:19
Benzo[k]fluoranthene	54.59	Incomplete Integration	TT6I	07/26/24 09:22
Benzo[e]pyrene	55.46	Incomplete Integration	TT6I	07/26/24 09:21
Benzo[a]pyrene	55.61	Incomplete Integration	TT6I	07/26/24 09:21
Dibenz (a,h) anthracene	57.99	Incomplete Integration	TT6I	07/26/24 09:20
Benzo[g,h,i]perylene	58.39	Incomplete Integration	TT6I	07/26/24 09:21

# Method 23 Revised (PAHs)

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Method 23 Revised (PAHs)



FORM II  
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	C62MN #	C6Acy #	C6Ace #	C6Fle #	C6Ph #	AN #	C6Fla #	C3Pyr #
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	76	99	91	53	75	83	105	107

	<u>QC LIMITS</u>
C62MN = 13C6-2-Methylnaphthalene	20-130
C6Acy = 13C6-Acenaphthylene	20-130
C6Ace = 13C6-Acenaphthene	20-130
C6Fle = 13C6-Fluorene	20-130
C6Ph = 13C6-Phenanthrene	20-130
AN = 13C6-Anthracene	20-130
C6Fla = 13C6-Fluoranthrene	20-130
C3Pyr = 13C3-Pyrene	20-130

# Column to be used to flag recovery values

FORM II  
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	C6BaA #	C6Chr #	C6BbF #	C6BkF #	C4BeP #	C4BaP #	PRY #	IND #
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	98	92	42	43	32	60	70	76

	QC LIMITS
C6BaA = 13C6-Benzo (a) anthracene	20-130
C6Chr = 13C6-Chrysene	20-130
C6BbF = 13C6-Benzo (b) fluoranthene	20-130
C6BkF = 13C6-Benzo (k) fluoranthene	20-130
C4BeP = 13C4-Benzo (e) pyrene	20-130
C4BaP = 13C4-Benzo (a) pyrene	20-130
PRY = Perylene-d12	20-130
IND = 13C6-Indeno (1,2,3-cd) pyrene	20-130

# Column to be used to flag recovery values

FORM II  
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBA #	BghiP #
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	78	56

DBA = 13C6-Dibenz(a,h)anthracene  
BghiP = 13C12-Benzo(ghi)perylene

QC LIMITS  
20-130  
20-130

# Column to be used to flag recovery values

FORM II  
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	C6N #
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	60
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	54

C6N = 13C6-Naphthalene

QC LIMITS  
20-130

# Column to be used to flag recovery values

FORM II 23

FORM II  
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	C6N #	C62MN #	C6Acy #	C6Ace #	C6Fle #	C6Ph #	AN #	C6Fla #
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	60	65	81	83	87	59	67	89
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	56	67	77	83	83	56	72	87
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	64	67	96	88	101	93	104	98
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	75	70	92	97	94	70	83	94
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	71	74	105	98	110	82	98	96
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	77	75	84	89	89	74	71	95
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	33	43	38	47	76	47	48	63
A-2174,A-2175 M23 MEDIA CHECK XAD, FILTER	140-36940-14	77	72	95	83	85	68	75	84
	MB 140-87620/21-B	68	69	104	90	101	87	96	89
	LCS 140-87620/19-B	66	69	101	90	96	81	99	91
	LCSD 140-87620/20-B	66	71	104	92	105	80	94	92

QC LIMITS

C6N = 13C6-Naphthalene	20-130
C62MN = 13C6-2-Methylnaphthalene	20-130
C6Acy = 13C6-Acenaphthylene	20-130
C6Ace = 13C6-Acenaphthene	20-130
C6Fle = 13C6-Fluorene	20-130
C6Ph = 13C6-Phenanthrene	20-130
AN = 13C6-Anthracene	20-130
C6Fla = 13C6-Fluoranthrene	20-130

# Column to be used to flag recovery values

FORM II  
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	C3Pyr #	C6BaA #	C6Chr #	C6BbF #	C6BkF #	C4BeP #	C4BaP #	PRY #
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	87	73	77	74	74	67	74	74
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	87	67	70	66	68	60	65	67
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	98	86	86	63	100	51	92	97
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	89	110	110	25	22	26	24	59
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	88	68	73	49	69	27	67	64
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	82	78	76	40	40	26	54	37
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	79	48	64	61	61	55	74	62
A-2174, A-2175 M23 MEDIA CHECK XAD, FILTER	140-36940-14	84	84	84	93	84	87	90	88
	MB 140-87620/21-B	88	105	102	97	88	84	83	81
	LCS 140-87620/19-B	86	96	93	93	84	85	84	74
	LCSD 140-87620/20-B	88	99	94	96	89	89	94	94

QC LIMITS

C3Pyr = 13C3-Pyrene	20-130
C6BaA = 13C6-Benzo (a) anthracene	20-130
C6Chr = 13C6-Chrysene	20-130
C6BbF = 13C6-Benzo (b) fluoranthene	20-130
C6BkF = 13C6-Benzo (k) fluoranthene	20-130
C4BeP = 13C4-Benzo (e) pyrene	20-130
C4BaP = 13C4-Benzo (a) pyrene	20-130
PRY = Perylene-d12	20-130

# Column to be used to flag recovery values

FORM II  
HI-RES PAHS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): Rxi-5SilMS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	IND #	DBA #	BghiP #
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	57	63	49
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	41	50	38
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	93	109	92
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	69	28	56
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	51	54	42
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	14 *5-	10 *5-	42
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	115	74	70
A-2174,A-2175 M23 MEDIA CHECK XAD, FILTER	140-36940-14	118	100	85
	MB 140-87620/21-B	106	101	84
	LCS 140-87620/19-B	114	109	90
	LCSD 140-87620/20-B	116	108	93

	<u>QC LIMITS</u>
IND = 13C6-Indeno (1,2,3-cd)pyrene	20-130
DBA = 13C6-Dibenz (a,h) anthracene	20-130
BghiP = 13C12-Benzo (ghi) perylene	20-130

# Column to be used to flag recovery values

FORM II 23

FORM III  
HI-RES PAHS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: LCS140-8762019-B\_202407101153  
 Lab ID: LCS 140-87620/19-B Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/Sample)	LCS CONCENTRATION (ng/Sample)	LCS % REC	QC LIMITS REC	#
Naphthalene	150	191.6	128	60-140	
2-Methylnaphthalene	150	172.1	115	60-140	
Acenaphthylene	150	121.1	81	60-140	
Acenaphthene	150	133.3	89	60-140	
Fluorene	150	146.2	97	60-140	
Phenanthrene	150	160.0	107	60-140	
Anthracene	150	124.5	83	60-140	
Fluoranthene	150	133.9	89	60-140	
Pyrene	150	136.2	91	60-140	
Benzo[a]anthracene	150	168.2	112	60-140	
Chrysene	150	172.4	115	60-140	
Benzo[b]fluoranthene	150	135.5	90	60-140	
Benzo[k]fluoranthene	150	129.7	86	60-140	
Benzo[e]pyrene	150	137.3	92	60-140	
Benzo[a]pyrene	150	122.4	82	60-140	
Perylene	150	127.2	85	60-140	
Indeno[1,2,3-cd]pyrene	150	144.5	96	60-140	
Dibenz(a,h)anthracene	150	139.8	93	60-140	
Benzo[g,h,i]perylene	150	136.4	91	60-140	
13C6-Naphthalene	150	98.87	66	20-130	
13C6-2-Methylnaphthalene	150	104.2	69	20-130	
13C6-Acenaphthylene	150	151.7	101	20-130	
13C6-Acenaphthene	150	134.6	90	20-130	
13C6-Fluorene	150	143.8	96	20-130	
13C6-Fluoranthrene	150	135.8	91	20-130	
13C3-Pyrene	150	129.5	86	20-130	
13C6-Benzo(a)anthracene	150	143.8	96	20-130	
13C6-Chrysene	150	138.9	93	20-130	
13C6-Benzo(b)fluoranthene	150	140.1	93	20-130	
13C6-Benzo(k)fluoranthene	150	126.1	84	20-130	
13C4-Benzo(e)pyrene	150	127.4	85	20-130	
13C4-Benzo(a)pyrene	150	125.3	84	20-130	
Perylene-d12	150	111.3	74	20-130	
13C6-Indeno(1,2,3-cd)pyrene	150	170.5	114	20-130	
13C6-Dibenz(a,h)anthracene	150	163.0	109	20-130	
13C12-Benzo(ghi)perylene	150	134.4	90	20-130	
13C6-Anthracene	150	148.2	99	20-130	
13C6-Phenanthrene	150	122.0	81	20-130	

# Column to be used to flag recovery and RPD values



FORM III  
HI-RES PAHS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Matrix: Air Level: Low Lab File ID: LCSD140-8762020-Ba.d  
Lab ID: LCSD 140-87620/20-B Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/Sample)	LCSD CONCENTRATION (ng/Sample)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Naphthalene	150	183.1	122	5	25	60-140	
2-Methylnaphthalene	150	177.0	118	3	25	60-140	
Acenaphthylene	150	123.3	82	2	25	60-140	
Acenaphthene	150	130.9	87	2	25	60-140	
Fluorene	150	145.8	97	0	25	60-140	
Phenanthrene	150	161.5	108	1	25	60-140	
Anthracene	150	122.0	81	2	25	60-140	
Fluoranthene	150	136.6	91	2	25	60-140	
Pyrene	150	137.4	92	1	25	60-140	
Benzo[a]anthracene	150	167.6	112	0	25	60-140	
Chrysene	150	172.1	115	0	25	60-140	
Benzo[b]fluoranthene	150	135.5	90	0	25	60-140	
Benzo[k]fluoranthene	150	127.8	85	1	25	60-140	
Benzo[e]pyrene	150	143.3	96	4	25	60-140	
Benzo[a]pyrene	150	117.3	78	4	25	60-140	
Perylene	150	118.9	79	7	25	60-140	
Indeno[1,2,3-cd]pyrene	150	137.8	92	5	25	60-140	
Dibenz(a,h)anthracene	150	141.2	94	1	25	60-140	
Benzo[g,h,i]perylene	150	134.9	90	1	25	60-140	
13C6-Naphthalene	150	99.72	66			20-130	
13C6-2-Methylnaphthalene	150	106.4	71			20-130	
13C6-Acenaphthylene	150	156.1	104			20-130	
13C6-Acenaphthene	150	138.4	92			20-130	
13C6-Fluorene	150	157.8	105			20-130	
13C6-Fluoranthrene	150	138.2	92			20-130	
13C3-Pyrene	150	132.5	88			20-130	
13C6-Benzo(a)anthracene	150	148.6	99			20-130	
13C6-Chrysene	150	141.2	94			20-130	
13C6-Benzo(b)fluoranthene	150	144.0	96			20-130	
13C6-Benzo(k)fluoranthene	150	133.2	89			20-130	
13C4-Benzo(e)pyrene	150	133.7	89			20-130	
13C4-Benzo(a)pyrene	150	140.9	94			20-130	
Perylene-d12	150	140.8	94			20-130	
13C6-Indeno(1,2,3-cd)pyrene	150	174.5	116			20-130	
13C6-Dibenz(a,h)anthracene	150	161.7	108			20-130	
13C12-Benzo(ghi)perylene	150	139.0	93			20-130	
13C6-Anthracene	150	140.5	94			20-130	
13C6-Phenanthrene	150	120.2	80			20-130	

# Column to be used to flag recovery and RPD values

FORM IV  
HI-RES PAHS METHOD BLANK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: MB140-8762021-B.d Lab Sample ID: MB 140-87620/21-B  
 Matrix: Air Date Extracted: 06/13/2024 10:30  
 Instrument ID: D3PAH Date Analyzed: 07/10/2024 15:12  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-87620/19-B	LCS140-8762019-B_20240710115341.d	07/10/2024 11:56
	LCSD 140-87620/20-B	LCSD140-8762020-Ba.d	07/10/2024 13:00
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	140-36940-a-1-d_20240716185927.d	07/16/2024 19:03
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	140-36940-a-2-d_20240716200352.d	07/16/2024 20:07
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	140-36940-a-3-d.d	07/16/2024 21:12
A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	140-36940-14	140-36940-a-14-d.d	07/17/2024 02:24
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	140-36940-a-3-d_20240717032449.d	07/17/2024 03:28
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	140-36940-a-5-d.d	07/17/2024 04:33
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	140-36940-a-7-d.d	07/17/2024 06:42
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	140-36940-a-8-da.d	07/17/2024 16:04
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	140-36940-a-6-d_20240719030234.d	07/19/2024 03:06
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	140-36940-a-4-f.d	07/25/2024 01:56
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	140-36940-a-5-d-20x.d	07/28/2024 18:10

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>1-COMBINED</u>	Lab Sample ID: <u>140-36940-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-1-d_20240716185927</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 13:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 19:03</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88812</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	2190	B	750	750	2.06
91-57-6	2-Methylnaphthalene	771	B	750	750	0.350
208-96-8	Acenaphthylene	24.5	J B	30.0	30.0	1.11
83-32-9	Acenaphthene	85.5	J B	300	300	1.10
86-73-7	Fluorene	232	J B	300	300	0.482
85-01-8	Phenanthrene	1040	B	60.0	60.0	0.868
120-12-7	Anthracene	45.1	J	300	300	0.803
206-44-0	Fluoranthene	167	B	60.0	60.0	0.441
129-00-0	Pyrene	249	B	60.0	60.0	0.435
56-55-3	Benzo[a]anthracene	3.64	J B	60.0	60.0	0.198
218-01-9	Chrysene	44.5	J B	60.0	60.0	0.199
205-99-2	Benzo[b]fluoranthene	15.9	J B	300	300	0.0886
207-08-9	Benzo[k]fluoranthene	3.78	J B	60.0	60.0	0.0873
192-97-2	Benzo[e]pyrene	69.1	B	60.0	60.0	0.0767
50-32-8	Benzo[a]pyrene	4.66	J	30.0	30.0	0.0814
198-55-0	Perylene	0.631	J B	30.0	30.0	0.0686
193-39-5	Indeno[1,2,3-cd]pyrene	33.6	B	30.0	30.0	0.112
53-70-3	Dibenz(a,h)anthracene	1.06	J B	60.0	60.0	0.0418
191-24-2	Benzo[g,h,i]perylene	115	B	60.0	60.0	0.0976

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>1-COMBINED</u>	Lab Sample ID: <u>140-36940-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-1-d_20240716185927</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 13:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 19:03</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88812</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	60		20-130
STL03357	13C6-2-Methylnaphthalene	65		20-130
189811-56-1	13C6-Acenaphthylene	81		20-130
189811-57-2	13C6-Acenaphthene	83		20-130
STL00616	13C6-Fluorene	87		20-130
1397194-60-3	13C6-Fluoranthrene	89		20-130
1397214-90-2	13C3-Pyrene	87		20-130
917378-11-1	13C6-Benzo (a) anthracene	73		20-130
1397177-72-8	13C6-Chrysene	77		20-130
STL03358	13C6-Benzo (b) fluoranthene	74		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	74		20-130
STL03382	13C4-Benzo (e) pyrene	67		20-130
STL03359	13C4-Benzo (a) pyrene	74		20-130
1520-96-3	Perylene-d12	74		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	57		20-130
STL03360	13C6-Dibenz (a,h) anthracene	63		20-130
350820-11-0	13C12-Benzo (ghi) perylene	49		20-130
189811-60-7	13C6-Anthracene	67		20-130
1189955-53-0	13C6-Phenanthrene	59		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Lims ID: 140-36940-A-1-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Sample Type: Client  
Inject. Date: 16-Jul-2024 19:03:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033522-010  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 16-Jul-2024 20:15:27 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1628

First Level Reviewer: Q9DB

Date: 16-Jul-2024 20:15:27

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:22	2519471		3.3746	6.014	6.014	0.002837	0.002837	60.14	
Naphthalene	11:23	47475659		1.2893	146.2	146.2	0.1374	0.1374		
D 13C6-2-Methylnaphthalene	13:45	1295480		1.6031	6.510	6.510	0.000947	0.000947	65.10	
2-Methylnaphthalene	13:45	8515442		1.2786	51.4	51.4	0.0233	0.0233		
D 13C6-Acenaphthylene	16:36	1659962		1.6520	8.094	8.094	0.001300	0.001300	80.94	
Acenaphthylene	16:36	387054		2.3661	1.630	1.630	0.0740	0.0740		M
* Acenaphthene-d10	17:11	620694		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:18	1003480		0.9792	8.255	8.255	0.002433	0.002433	82.55	
Acenaphthene	17:18	726252		1.2697	5.700	5.700	0.0734	0.0734		
D 13C6-Fluorene	19:34	960454		0.8898	8.695	8.695	0.004461	0.004461	86.95	
Fluorene	19:34	1861347		1.2532	15.5	15.5	0.0321	0.0321		
D 13C6-Phenanthrene	24:55	1288688		0.5724	5.895	5.895	0.000604	0.000604	58.95	
Phenanthrene	24:55	9842020		1.1044	69.2	69.2	0.0578	0.0578		
\$ Anthracin-d10	25:08	29551		0.4257	0.1818	0.1818	0.000390	0.000390	18.18	
D 13C6-Anthracene	25:15	1162788		0.4523	6.731	6.731	0.000764	0.000764	67.31	
Anthracene	25:15	474881		1.3586	3.006	3.006	0.0536	0.0536		
D 13C6-Fluoranthrene	33:38	4062533		1.1994	8.869	8.869	0.0137	0.0137	88.69	
Fluoranthene	33:39	5192527		1.1513	11.1	11.1	0.0294	0.0294		
* Pyrene-d10	35:11	1909530		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:19	4515258		1.3512	8.750	8.750	0.008696	0.008696	87.50	
Pyrene	35:19	7972771		1.0652	16.6	16.6	0.0290	0.0290		
\$ 13C6-Benzo(c)fluorene	39:02	1330074		0.5136	6.781	6.781	0.003688	0.003688	102	
D 13C6-Benzo(a)anthracene	45:51	3824055		1.5189	7.258	7.258	0.005044	0.005044	72.58	
Benzo[a]anthracene	45:52	90341		0.9739	0.2426	0.2426	0.0132	0.0132		
D 13C6-Chrysene	46:07	4330485		1.6287	7.665	7.665	0.004704	0.004704	76.65	
Chrysene	46:04	1261378		0.9815	2.968	2.968	0.0132	0.0132		
D 13C6-Benzo(b)fluoranthene	54:29	3771170		1.4621	7.436	7.436	0.001566	0.001566	74.36	
Benzo[b]fluoranthene	54:29	448930		1.1249	1.058	1.058	0.005906	0.005906		
\$ 13C12-Benzo(j)fluoranthene	54:31	2370395		1.3558	5.040	5.040	0.007095	0.007095	75.60	
D 13C6-Benzo(k)fluoranthene	54:36	4509889		1.7507	7.426	7.426	0.001308	0.001308	74.26	
Benzo[k]fluoranthene	54:36	128088		1.1271	0.2520	0.2520	0.005822	0.005822		
* Benzo(e)pyrene-d12	55:22	1734447		5.7E+04	5.000	5.000				
D 13C4-Benzo(e)pyrene	55:27	3830669		1.6368	6.746	6.746	0.002196	0.002196	67.46	
Benzo[e]pyrene	55:27	1767369		1.0013	4.608	4.608	0.005111	0.005111		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:35	3973024		1.5508	7.385	7.385	0.002318	0.002318	73.85	
Benzo[a]pyrene	55:35	137267		1.1130	0.3104	0.3104	0.005425	0.005425		
D Perylene-d12	55:46	3077124		1.1917	7.444	7.444	0.006906	0.006906	74.44	
Perylene	55:46	18532		1.4307	0.0421	0.0421	0.004571	0.004571		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:54	2014576		1.0218	5.683	5.683	0.005480	0.005480	56.83	
Indeno[1,2,3-cd]pyrene	57:54	508049		1.1249	2.242	2.242	0.007440	0.007440		
D 13C6-Dibenz(a,h)anthracene	57:58	2290801		1.0553	6.258	6.258	0.002438	0.002438	62.58	
Dibenz(a,h)anthracene	57:59	18293		1.1314	0.0706	0.0706	0.002785	0.002785		M
D 13C12-Benzo(ghi)perylene	58:21	2186626		1.2749	4.944	4.944	0.001721	0.001721	49.44	
Benzo[g,h,i]perylene	58:22	2157946		1.2838	7.687	7.687	0.006508	0.006508		

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Lims ID: 140-36940-A-1-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Sample Type: Client  
Inject. Date: 16-Jul-2024 19:03:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033522-010  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 16-Jul-2024 20:15:27 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1628

First Level Reviewer: Q9DB

Date: 16-Jul-2024 20:15:27

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:22	11:24	-3	0.661	2519471	853922	164	410	5207		
Naphthalene											
128.0626	11:23	11:22	-2	1.001	47475659	16352215	6052	15130	2702		
13C6-2-Methylnaphthalene											
148.0984	13:45	13:46	-2	0.800	1295480	604712	26	65	23258		
2-Methylnaphthalene											
142.0783	13:45	13:45	-2	1.001	8515442	3975418	722	1805	5506		
13C6-Acenaphthylene											
158.0828	16:36	16:37	-2	0.967	1659962	578325	37	92	15630		
Acenaphthylene											
152.0626	16:36	16:36	-2	1.000	387054	90033	2395	5987	38		M
Acenaphthene-d10											
164.1404	17:11	17:12	-2		620694	214111	5	12	42822		M
13C6-Acenaphthene											
160.0984	17:18	17:18	-2	1.007	1003480	342159	41	102	8345		
Acenaphthene											
154.0783	17:18	17:18	-2	1.000	726252	238211	1276	3190	187		
13C6-Fluorene											
172.0984	19:34	19:34	-2	1.139	960454	278551	68	170	4096		
Fluorene											
166.0783	19:34	19:35	-2	1.000	1861347	539354	449	1122	1201		
13C6-Phenanthrene											
184.0984	24:55	24:55	-2	0.708	1288688	293023	10	25	29302		
Phenanthrene											
178.0783	24:55	24:55	-2	1.000	9842020	2149406	749	1872	2870		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:08	25:08	-2	0.714	29551	9683	5	12	1937		
13C6-Anthracene											
184.0984	25:15	25:15	-1	0.718	1162788	257300	10	25	25730		
Anthracene											
178.0783	25:15	25:16	-2	1.000	474881	88411	749	1872	118		
13C6-Fluoranthrene											
208.0984	33:38	33:38	-2	0.956	4062533	744260	474	1185	1570		
Fluoranthene											
202.0783	33:39	33:38	-1	1.000	5192527	964336	1008	2520	957		
Pyrene-d10											
212.1404	35:11	35:13	-2		1909530	361683	45	112	8037		
13C3-Pyrene											
205.0883	35:19	35:19	-1	1.004	4515258	815205	340	850	2398		
Pyrene											
202.0783	35:19	35:20	-2	1.000	7972771	1398442	1008	2520	1387		
13C6-Benzo(c)fluorene											
222.1134	39:02	39:02	-1	0.705	1330074	230157	55	137	4185		
13C6-Benzo(a)anthracene											
234.1140	45:51	45:49	-1	1.303	3824055	628637	324	810	1940		
Benzo[a]anthracene											
228.0939	45:52	45:51	0	1.000	90341	16147	324	810	50		
13C6-Chrysene											
234.1140	46:07	46:06	-1	1.311	4330485	623630	324	810	1925		
Chrysene											
228.0939	46:04	46:07	-4	0.999	1261378	145539	324	810	449		
13C6-Benzo(b)fluoranthene											
258.1140	54:29	54:28	0	0.984	3771170	955720	97	242	9853		
Benzo[b]fluoranthene											
252.0939	54:29	54:30	-1	1.000	448930	97983	254	635	386		
13C12-Benzo(j)fluoranthene											
264.1336	54:31	54:30	0	0.985	2370395	549583	407	1017	1350		
13C6-Benzo(k)fluoranthene											
258.1140	54:36	54:36	-1	0.986	4509889	967629	97	242	9976		
Benzo[k]fluoranthene											
252.0939	54:36	54:36	-1	1.000	128088	23427	254	635	92		
Benzo(e)pyrene-d12											
264.1692	55:22	55:22	-1		1734447	528602	348	870	1519		
13C4-Benzo(e)pyrene											
256.1073	55:27	55:27	-1	1.002	3830669	1240936	152	380	8164		
Benzo[e]pyrene											
252.0939	55:27	55:27	-1	1.000	1767369	558404	254	635	2198		
13C4-Benzo(a)pyrene											
256.1073	55:35	55:35	-1	1.004	3973024	1051599	152	380	6918		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:35	55:35	-1	1.000	137267	24905	254	635	98		
Perylene-d12											
264.1692	55:46	55:46	-1	1.007	3077124	971006	348	870	2790		
Perylene											
252.0939	55:46	55:46	-5	1.000	18532	4260	254	635	17		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:54	57:53	0	1.046	2014576	653529	237	592	2758		
Indeno[1,2,3-cd]pyrene											
276.0939	57:54	57:55	-1	1.000	508049	134096	219	547	612		
13C6-Dibenz(a,h)anthracene											
284.1296	57:58	57:58	-1	1.047	2290801	640981	109	272	5881		
Dibenz(a,h)anthracene											
278.1096	57:59	57:59	0	1.000	18293	2415	81	202	30		M
13C12-Benzo(ghi)perylene											
288.1342	58:21	58:21	-1	1.054	2186626	654761	93	232	7040		
Benzo[g,h,i]perylene											
276.0939	58:22	58:21	0	1.000	2157946	569773	219	547	2602		

### QC Flag Legend

Processing Flags

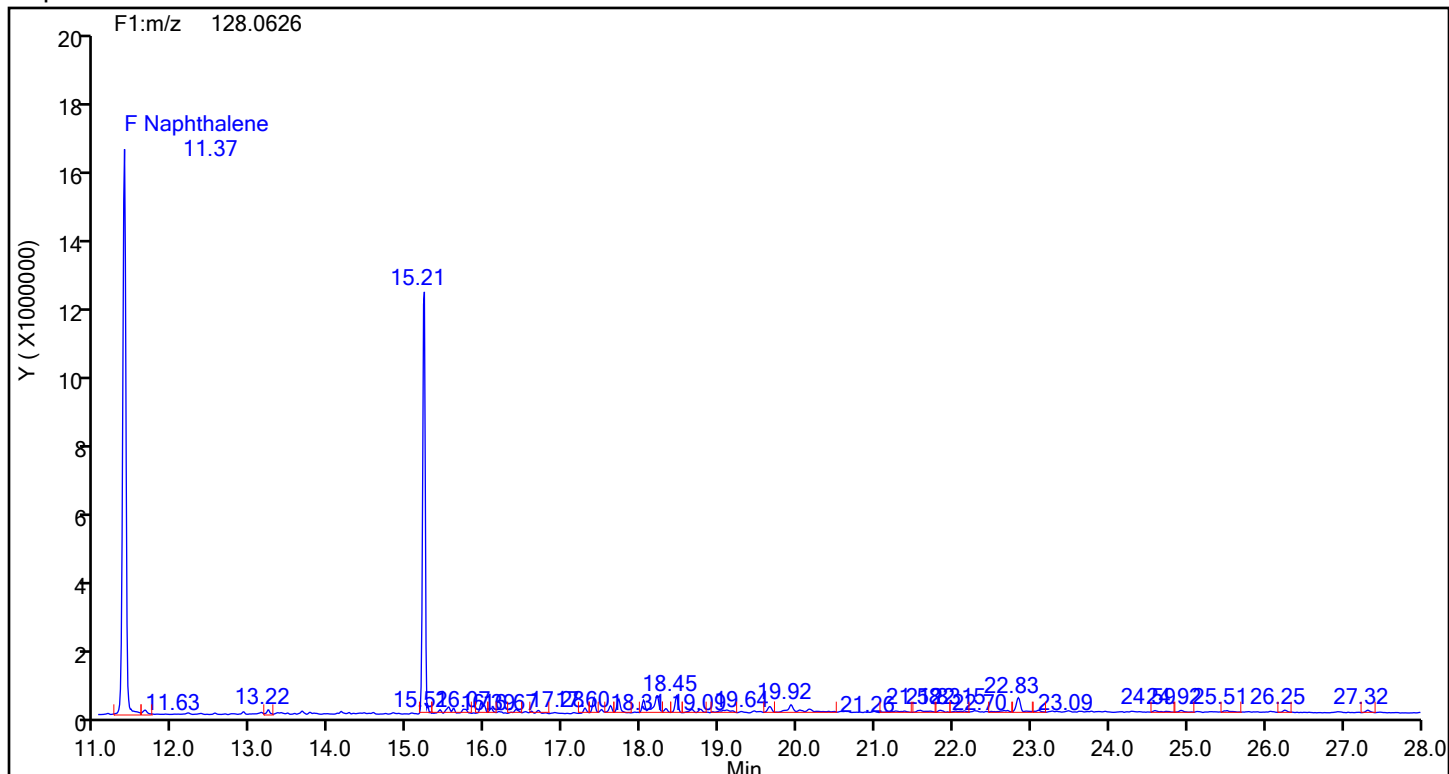
Review Flags

M - Manually Integrated

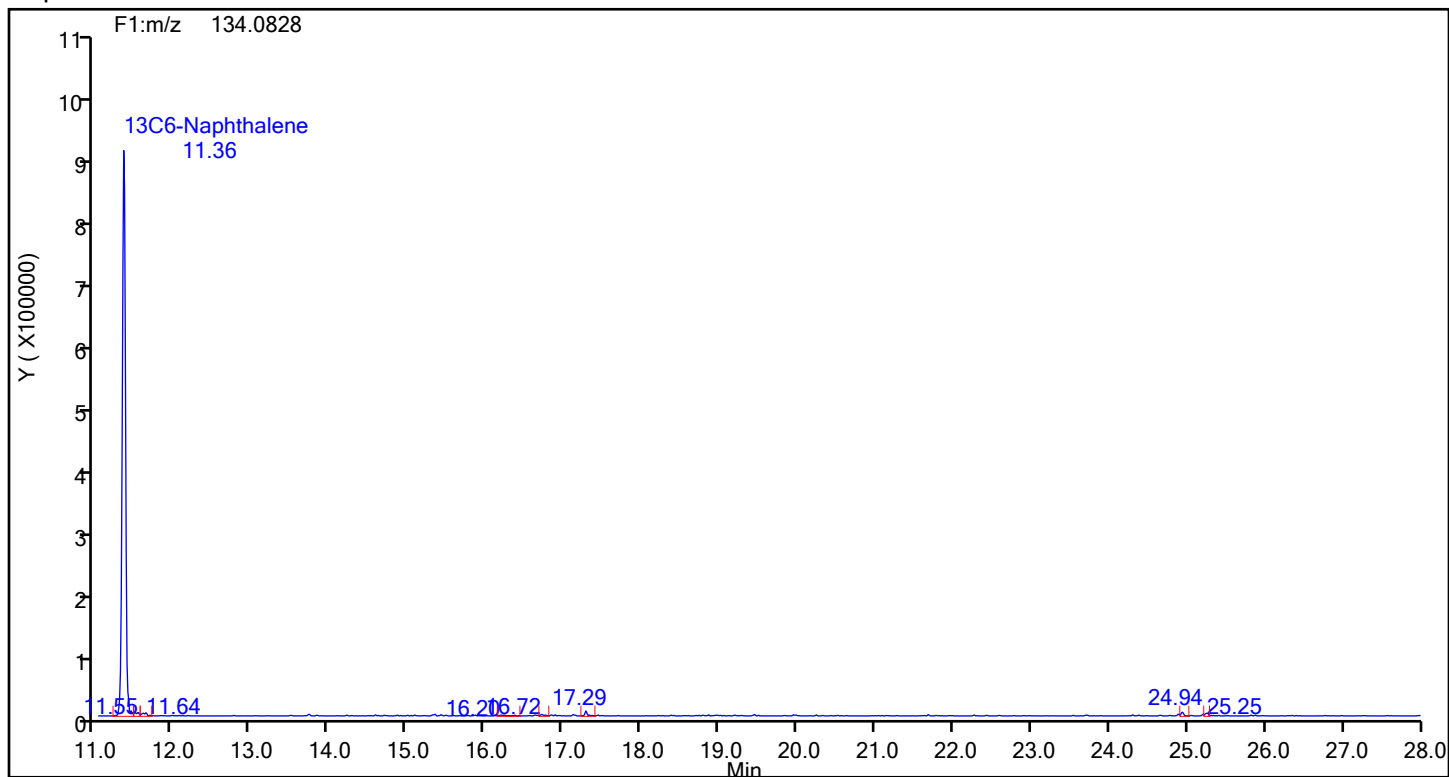
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



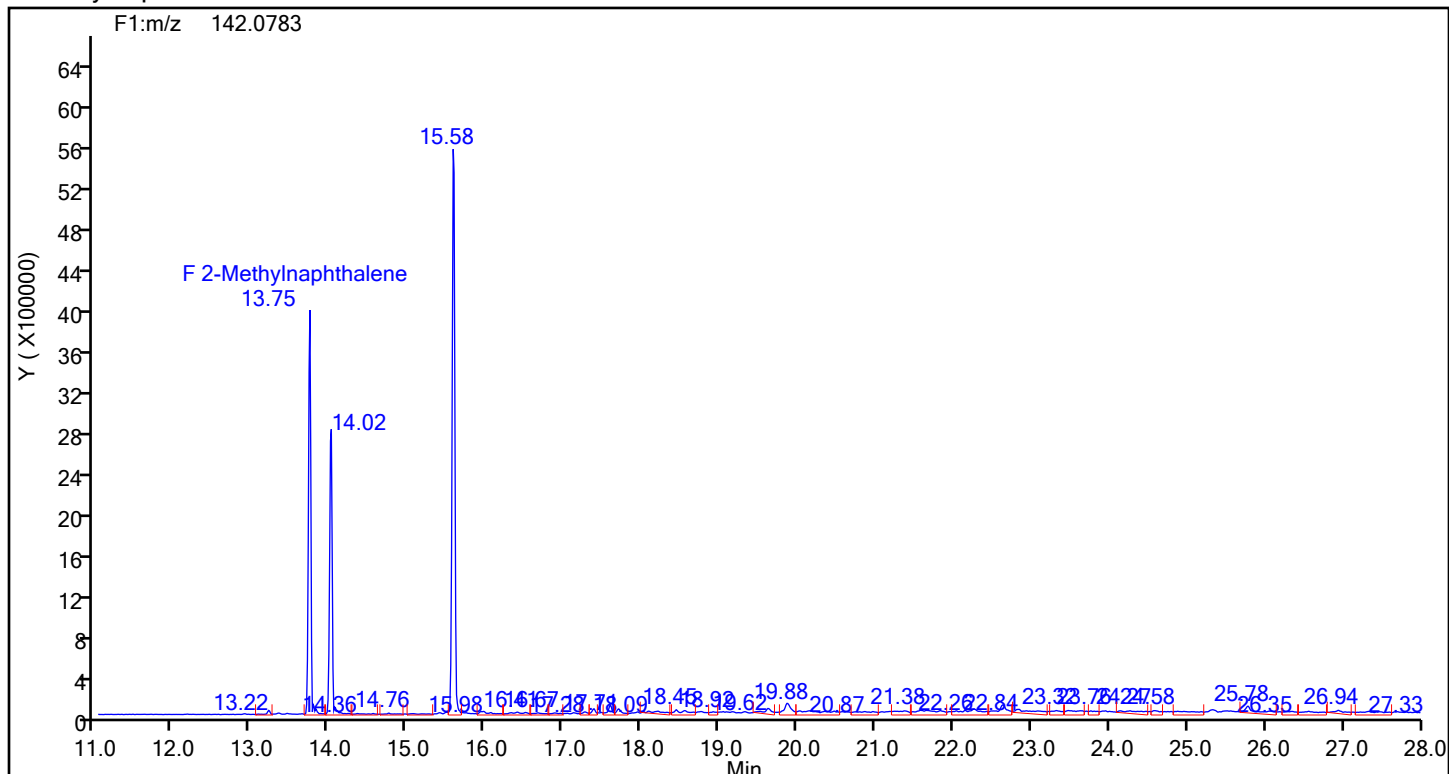
## Naphthalene Standards



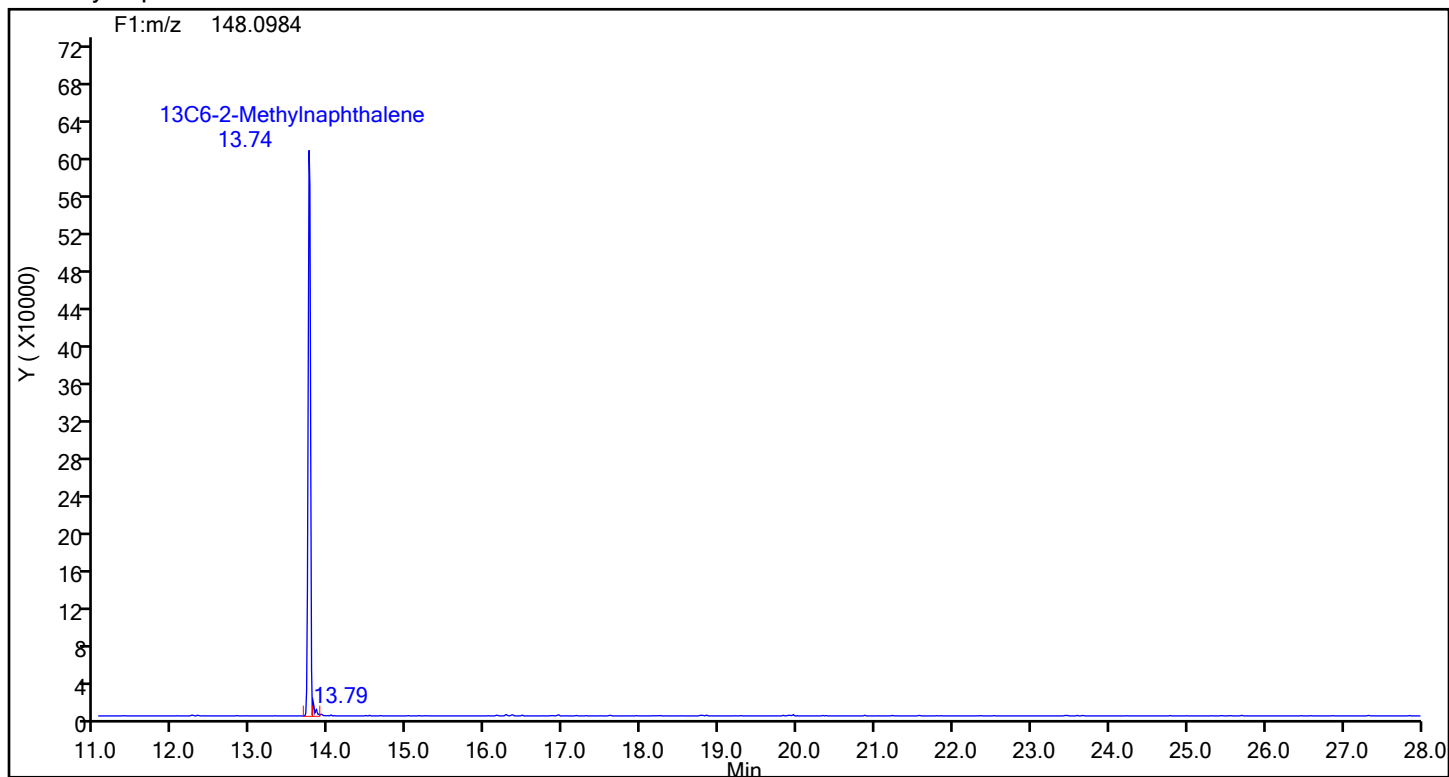
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



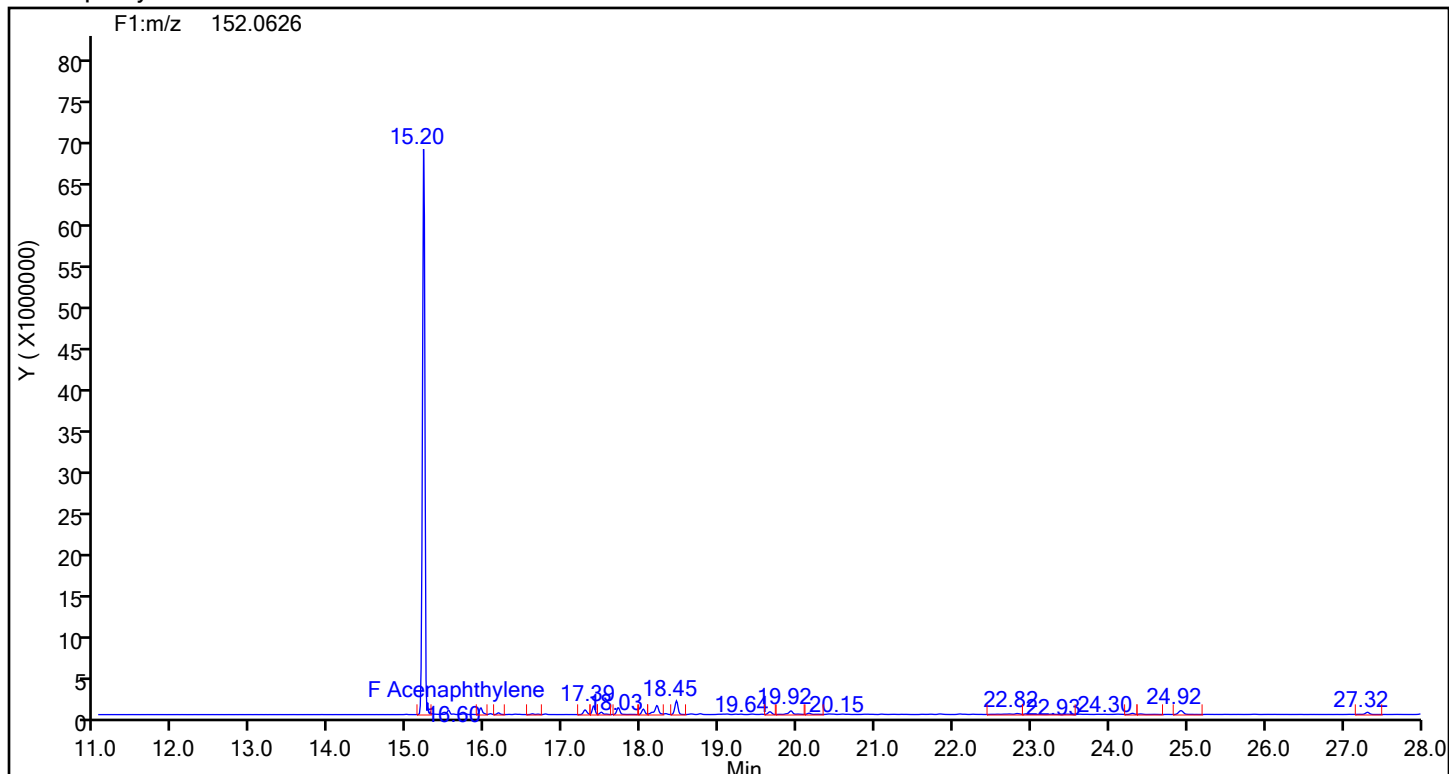
## 2-Methylnaphthalene Standards



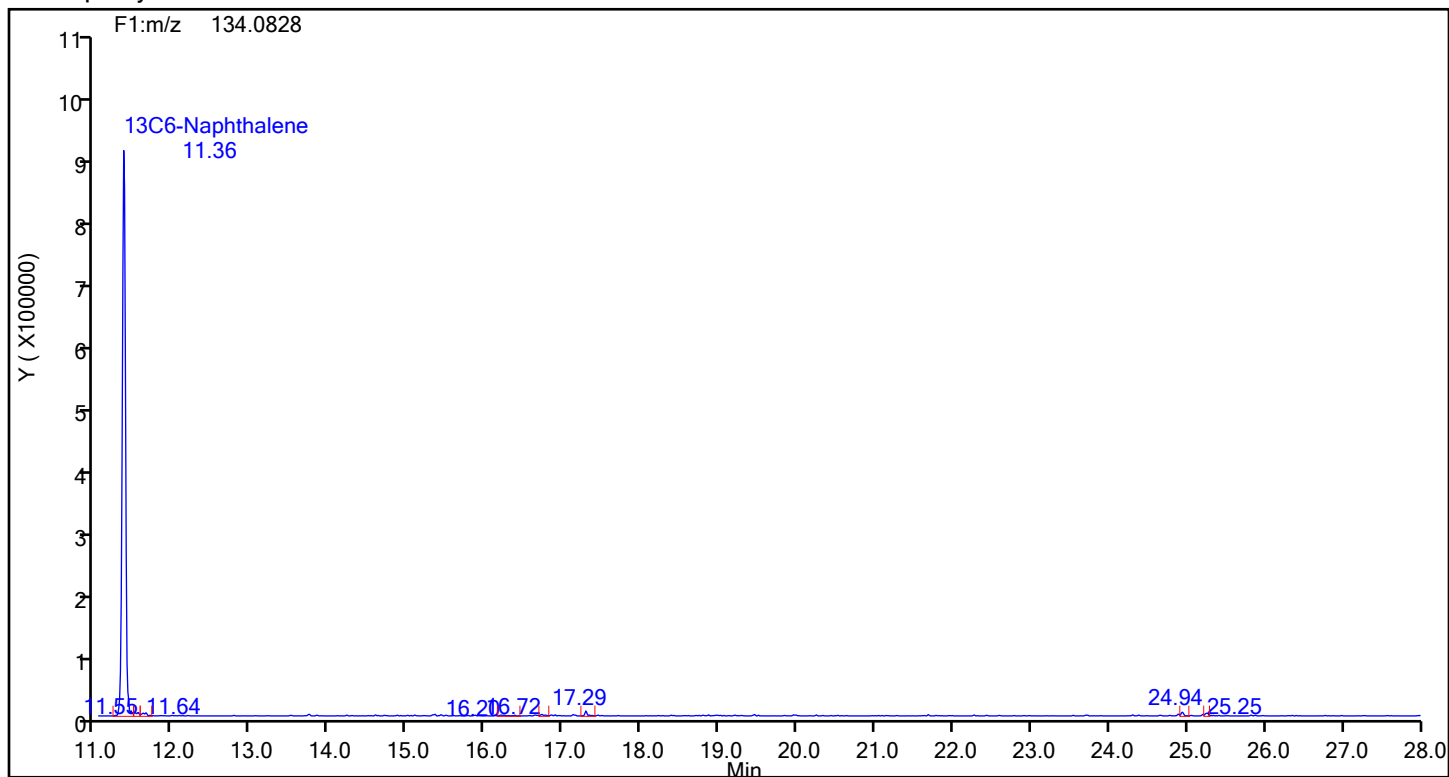
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



## Acenaphthylene Standards



## Eurofins Knoxville

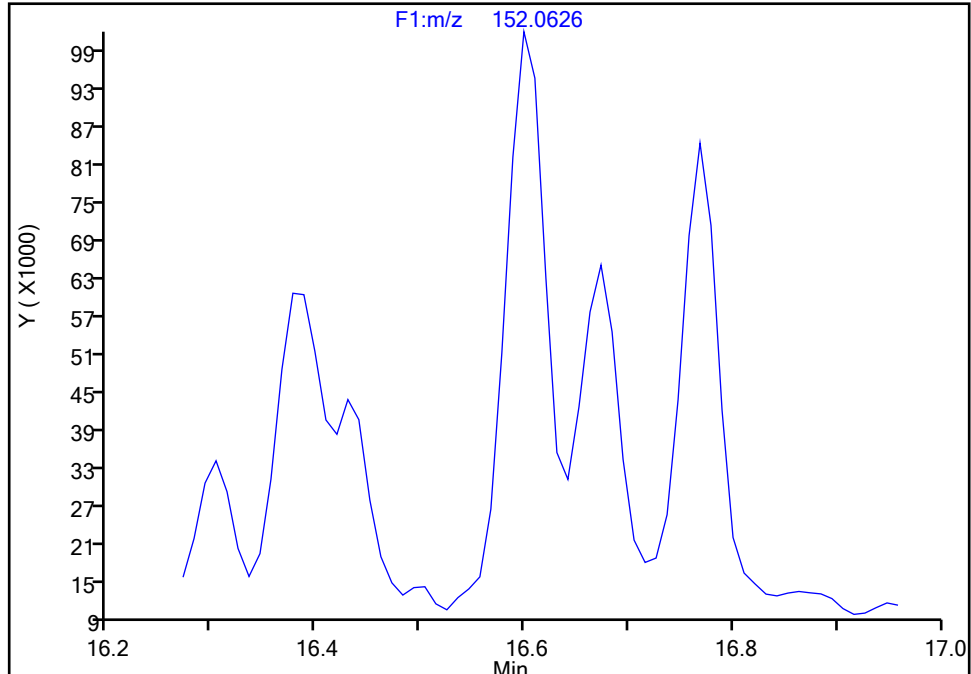
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Injection Date: 16-Jul-2024 19:03:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-1-D Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**Acenaphthylene, CAS: 208-96-8**

Signal: 1

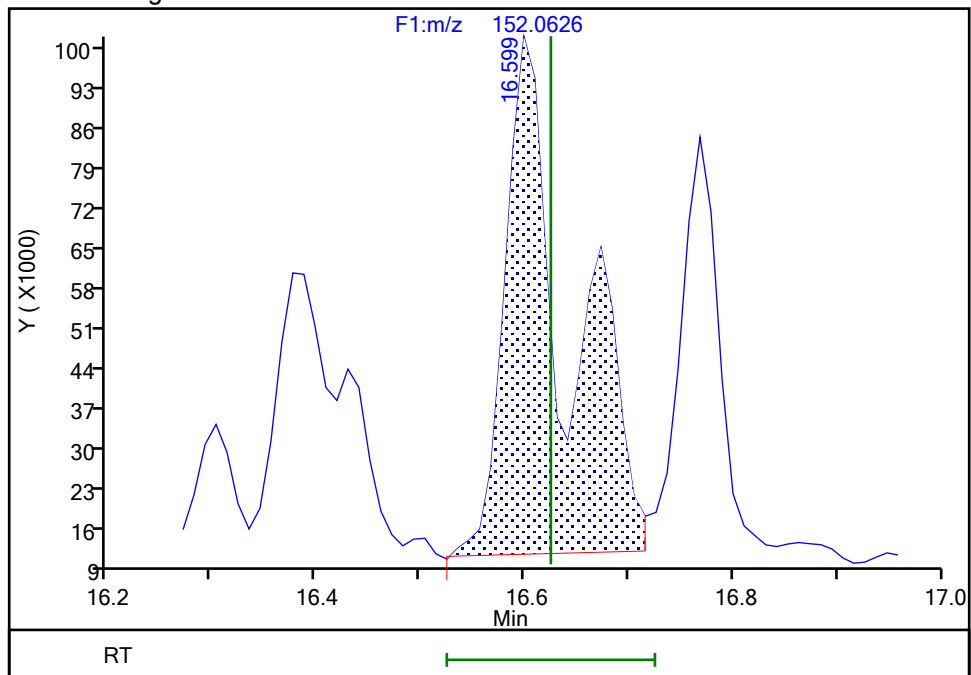
Not Detected  
Expected RT: 16.62

## Processing Integration Results



## Manual Integration Results

RT: 16.60  
Area: 387054  
Amount: 1.630135  
Amount Units: pg/ul



Reviewer: Q9DB, 16-Jul-2024 20:13:23 -04:00:00 (UTC)

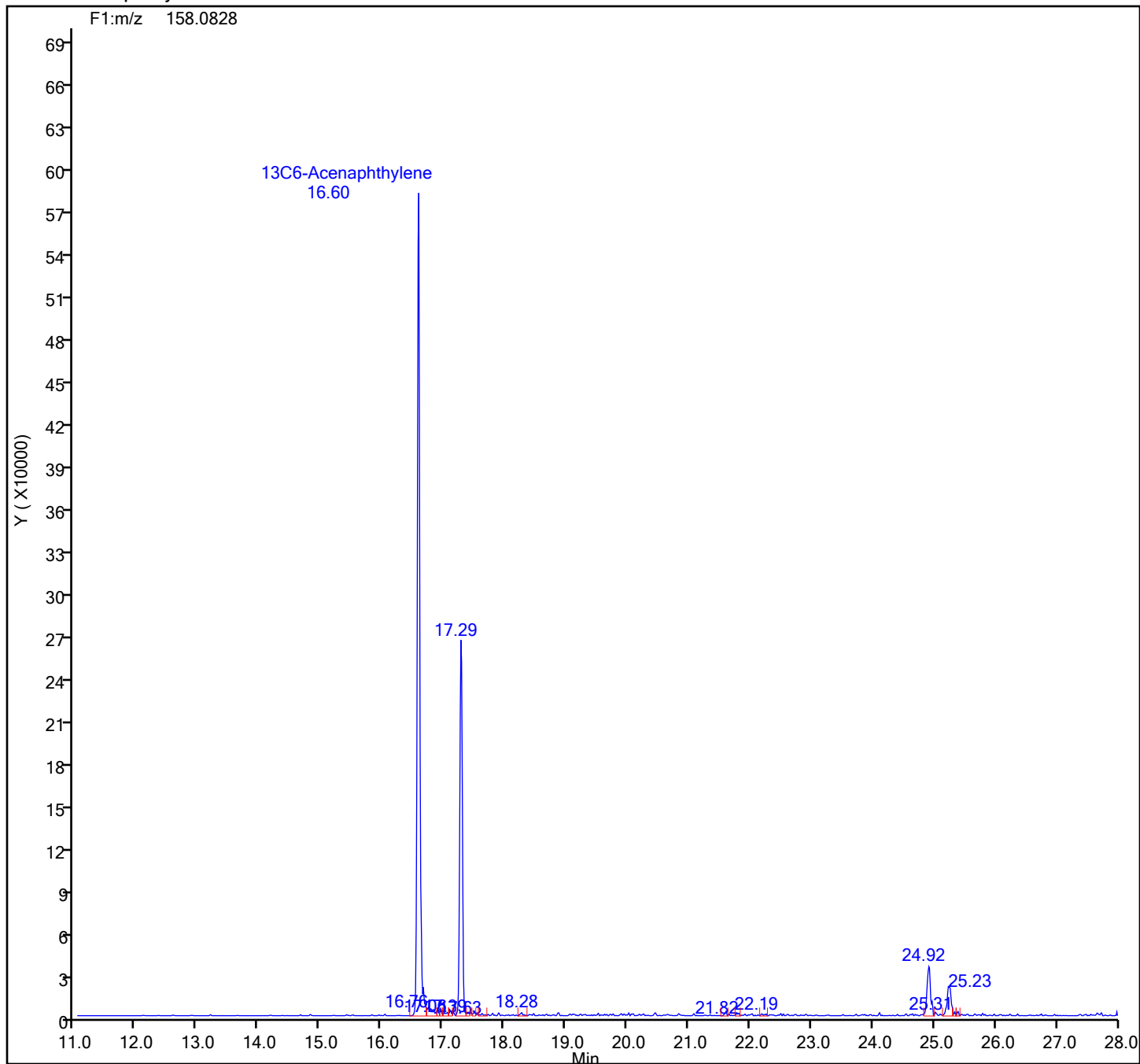
Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

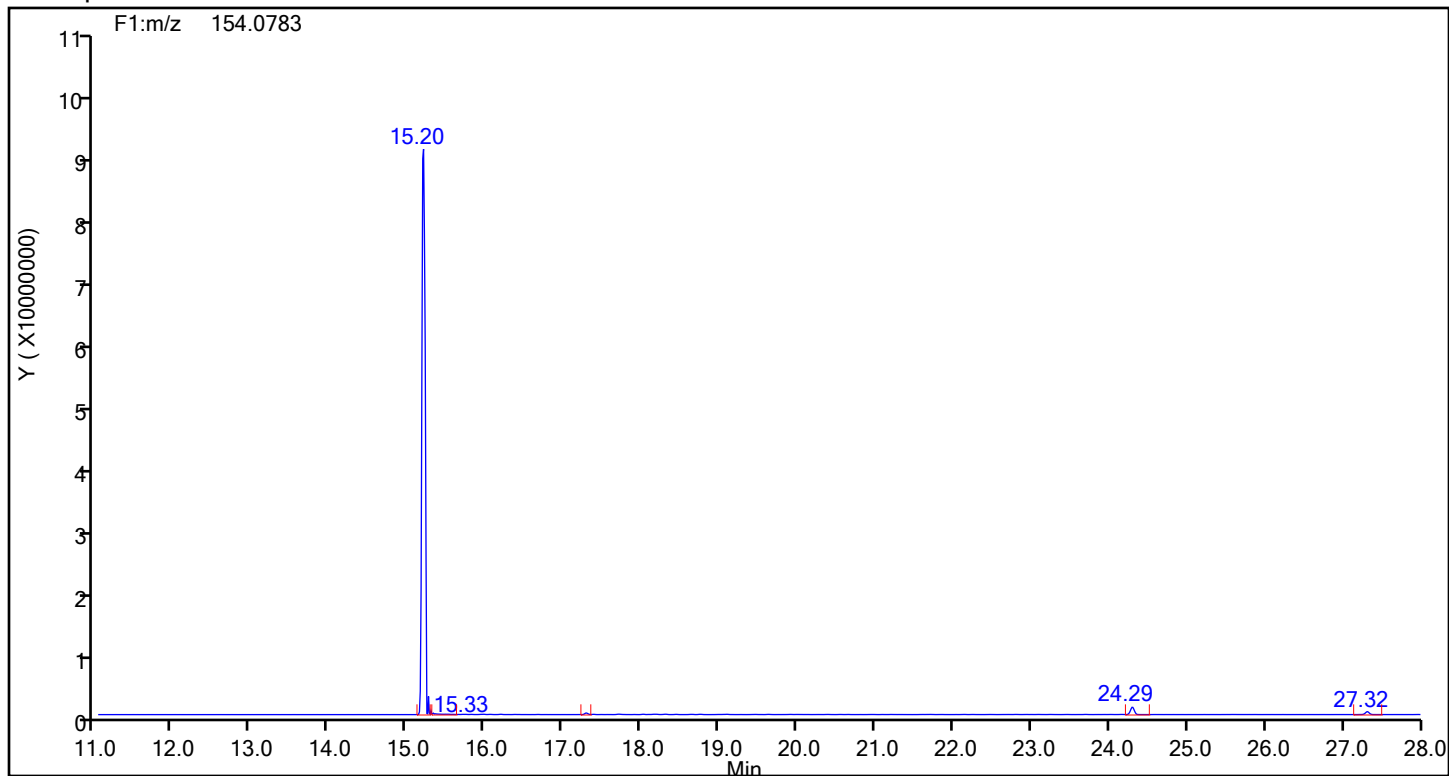
## 13C6-Acenaphthylene Standards



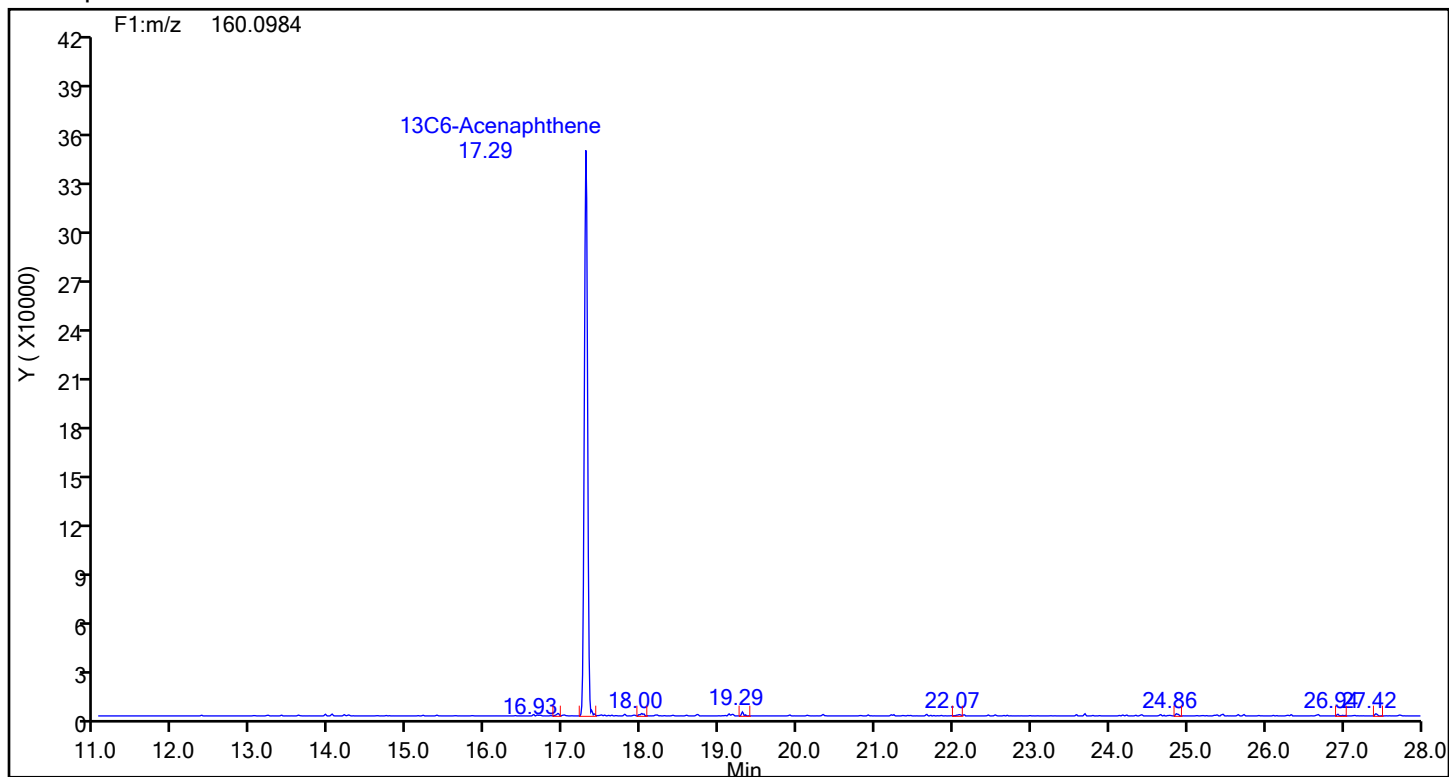
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



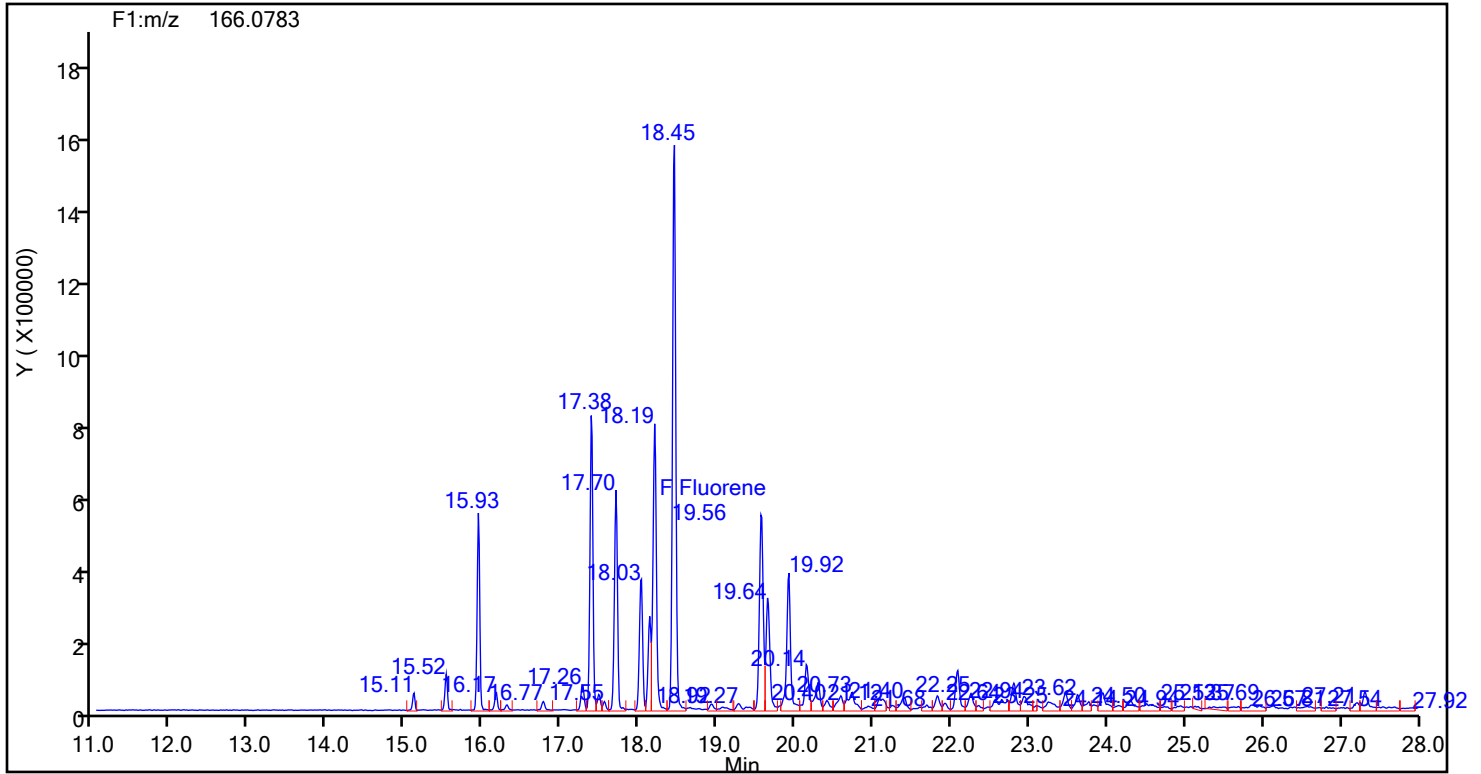
## Acenaphthene Standards



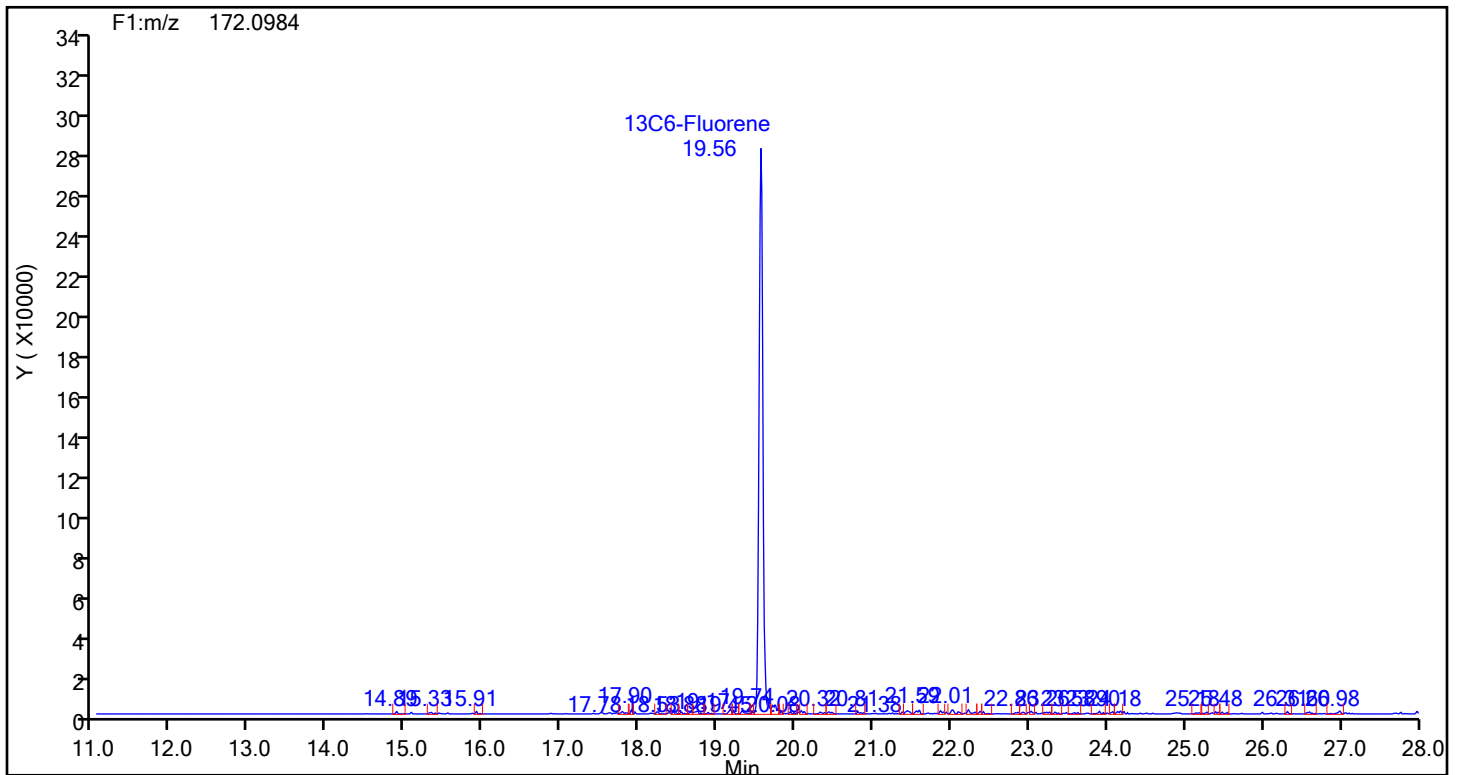
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



## Fluorene Standards

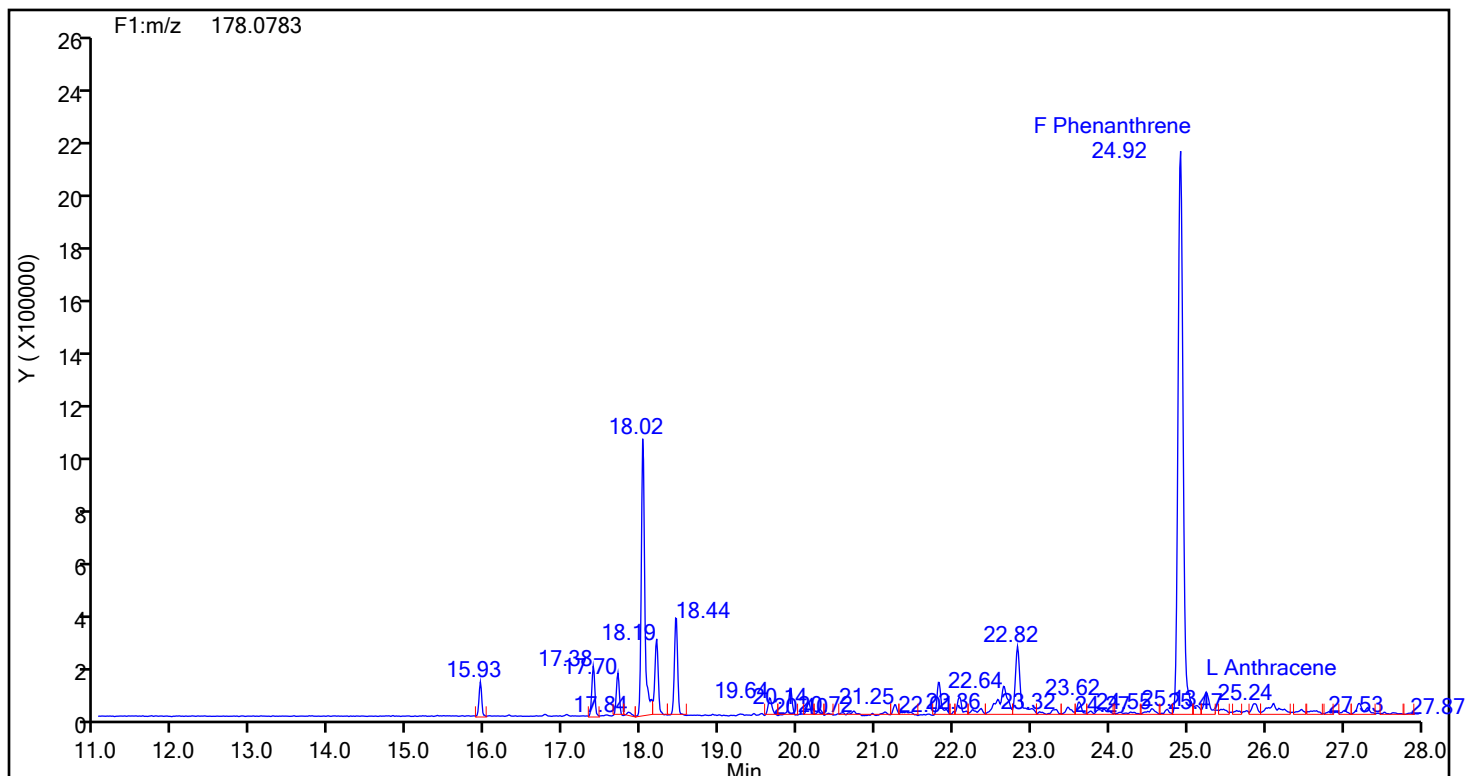




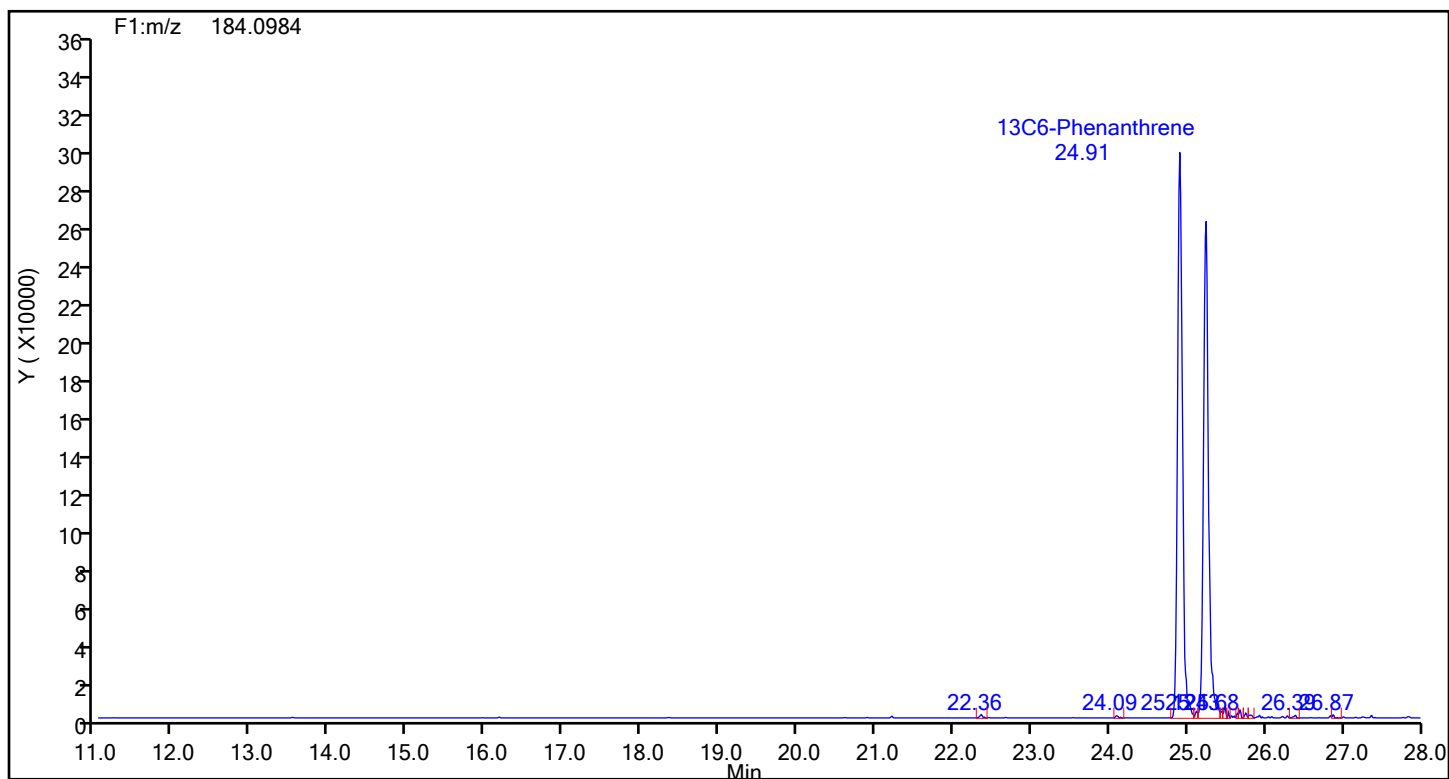
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Phenanthrene

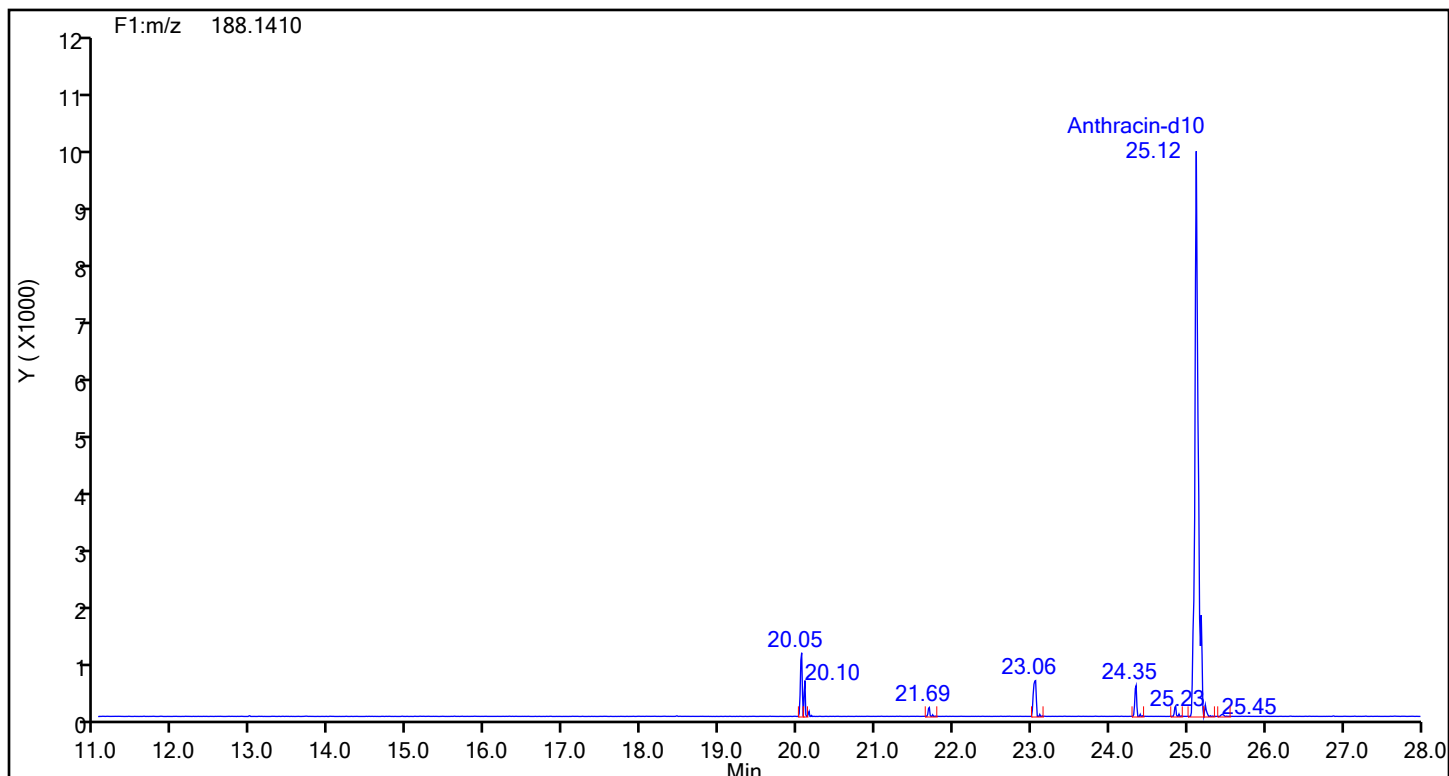


## Phenanthrene Standards

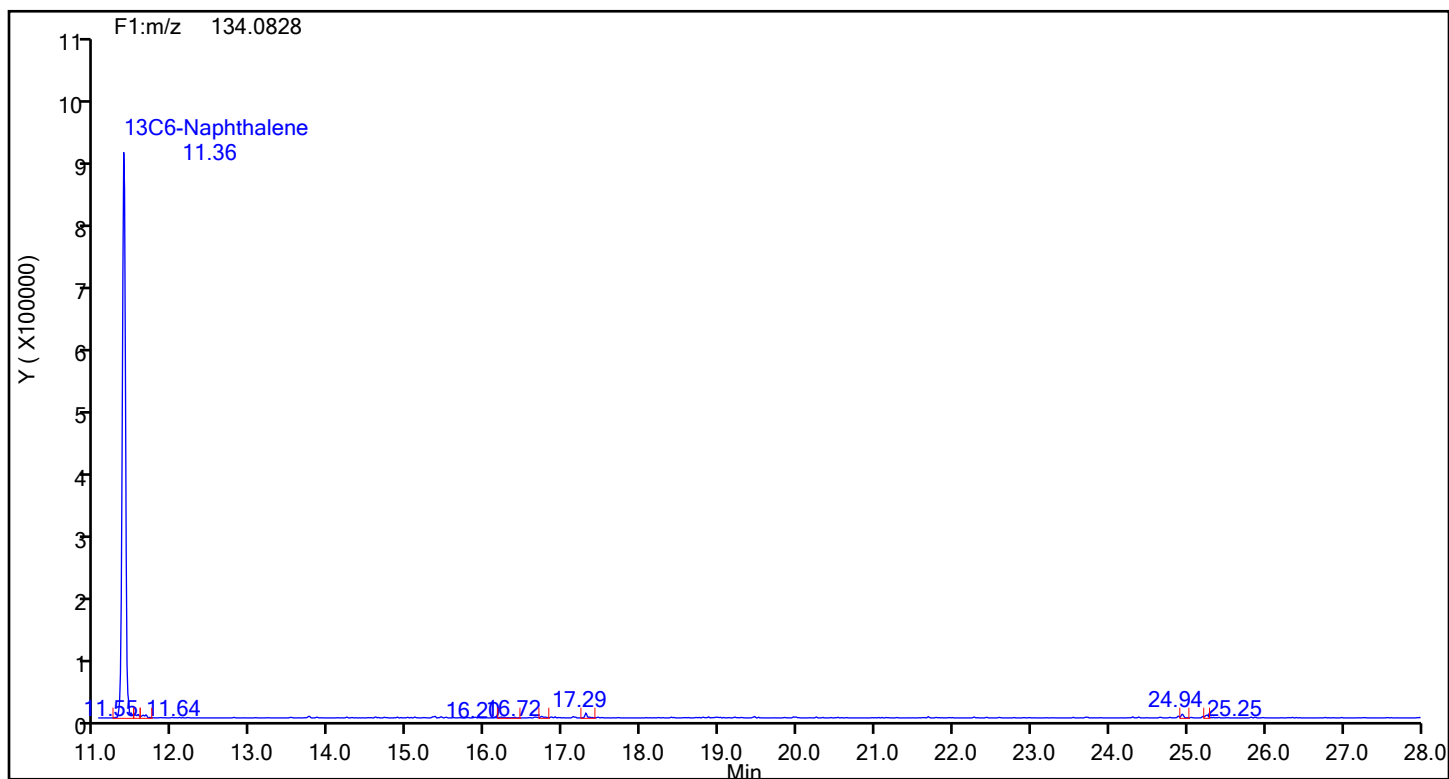


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

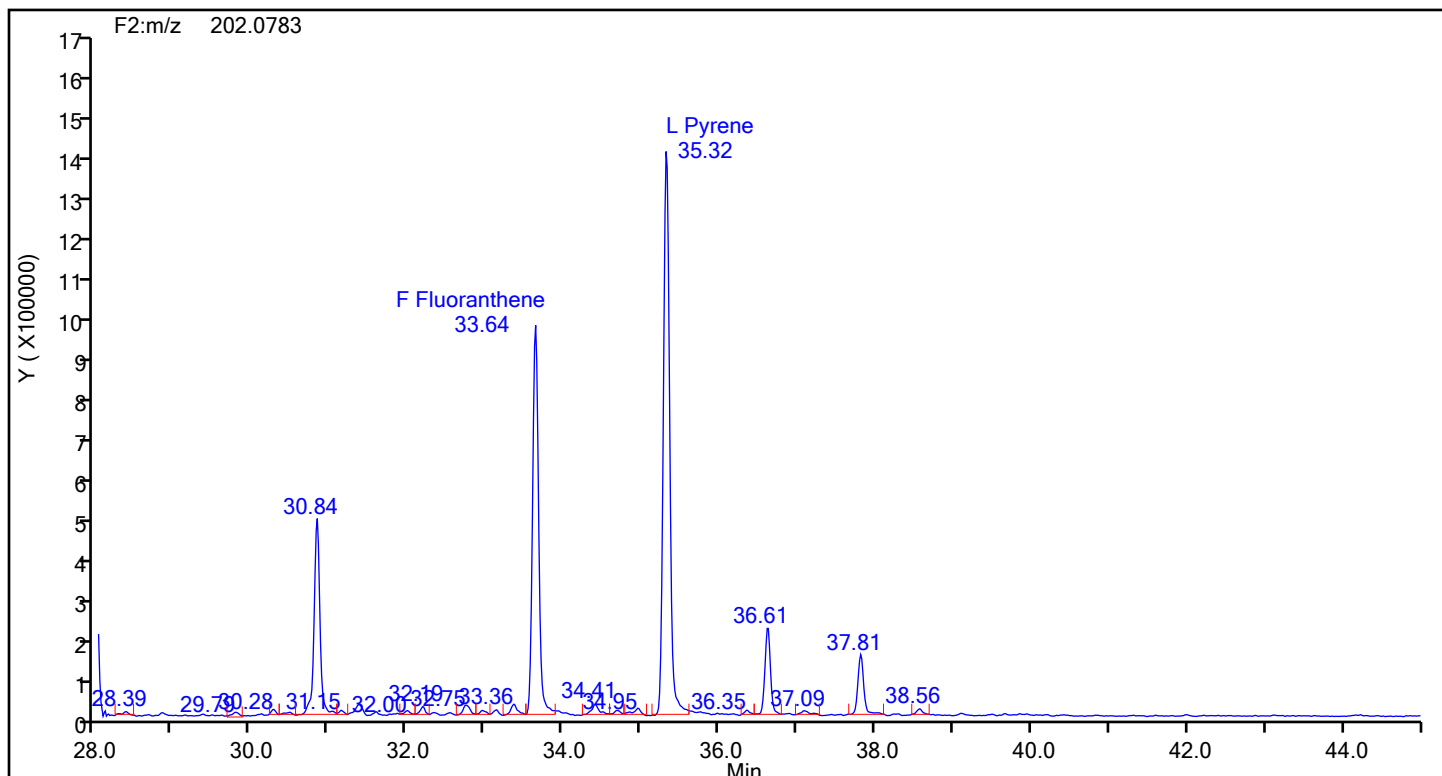


## Anthracin-d10 Standards

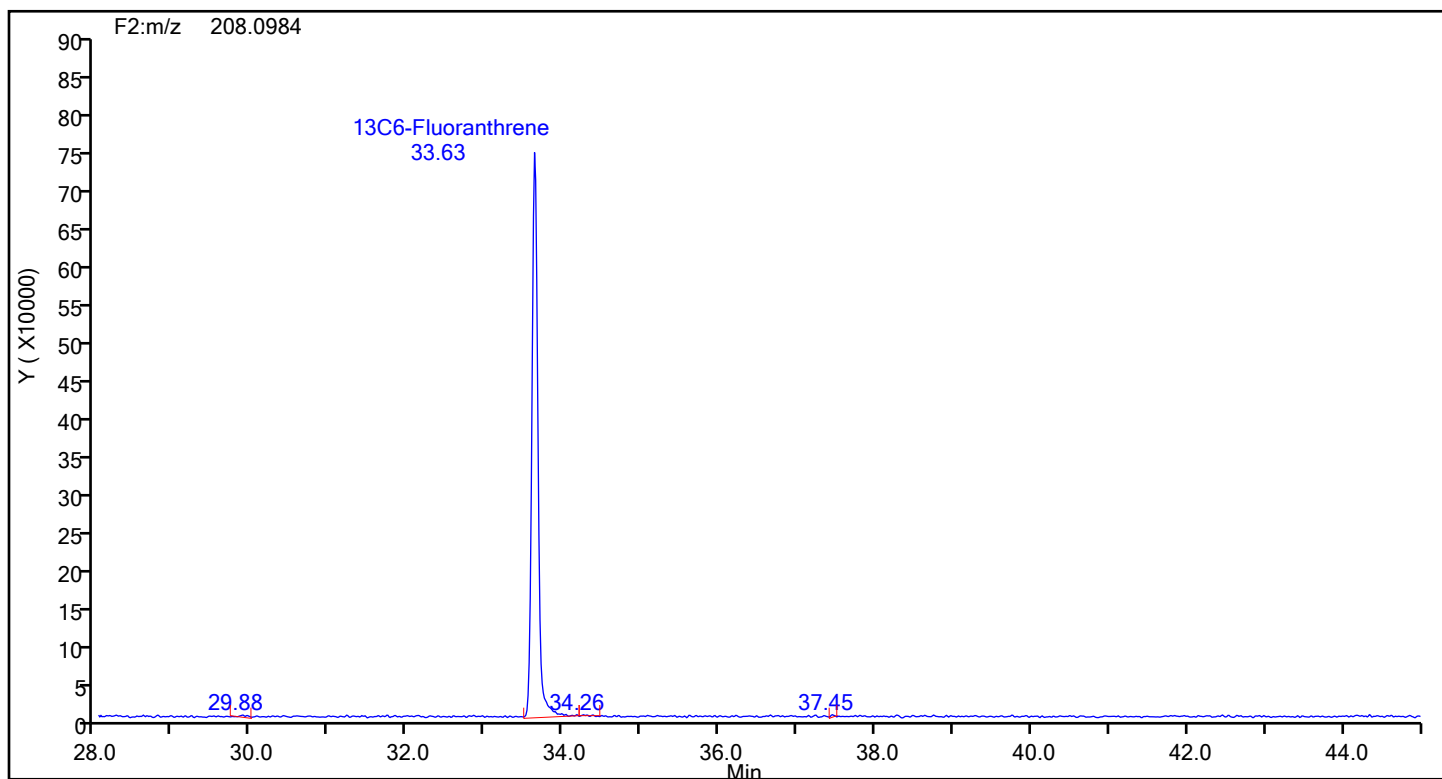


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



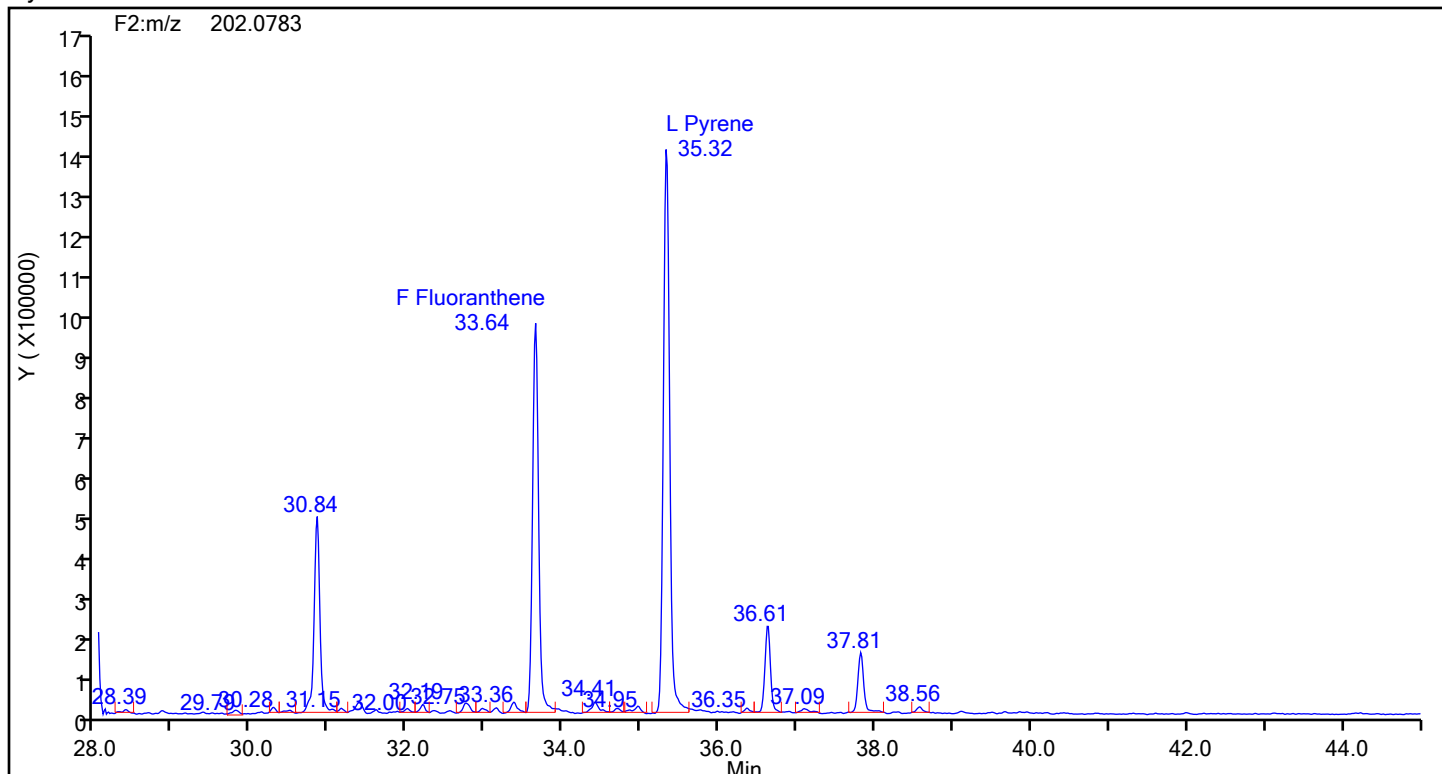
## Fluoranthene Standards



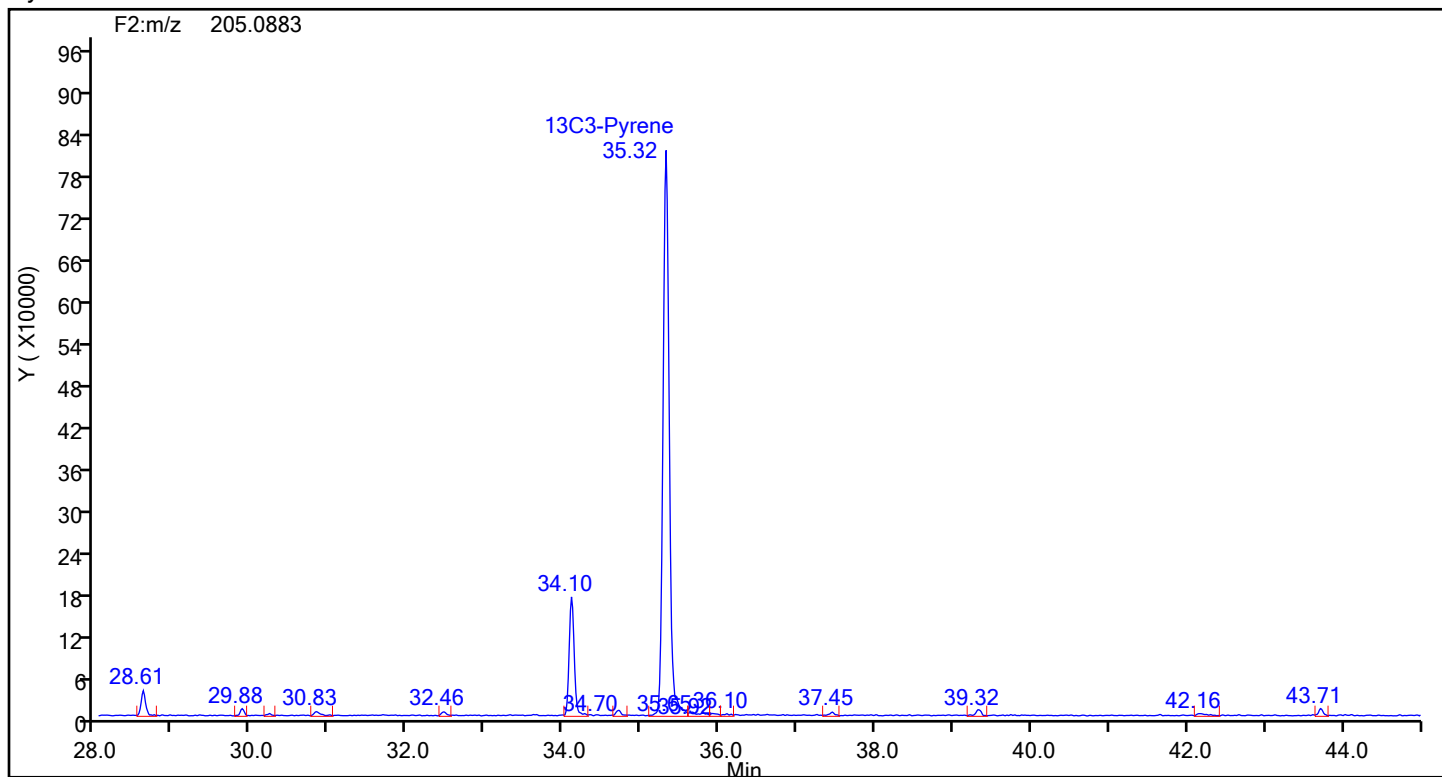
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



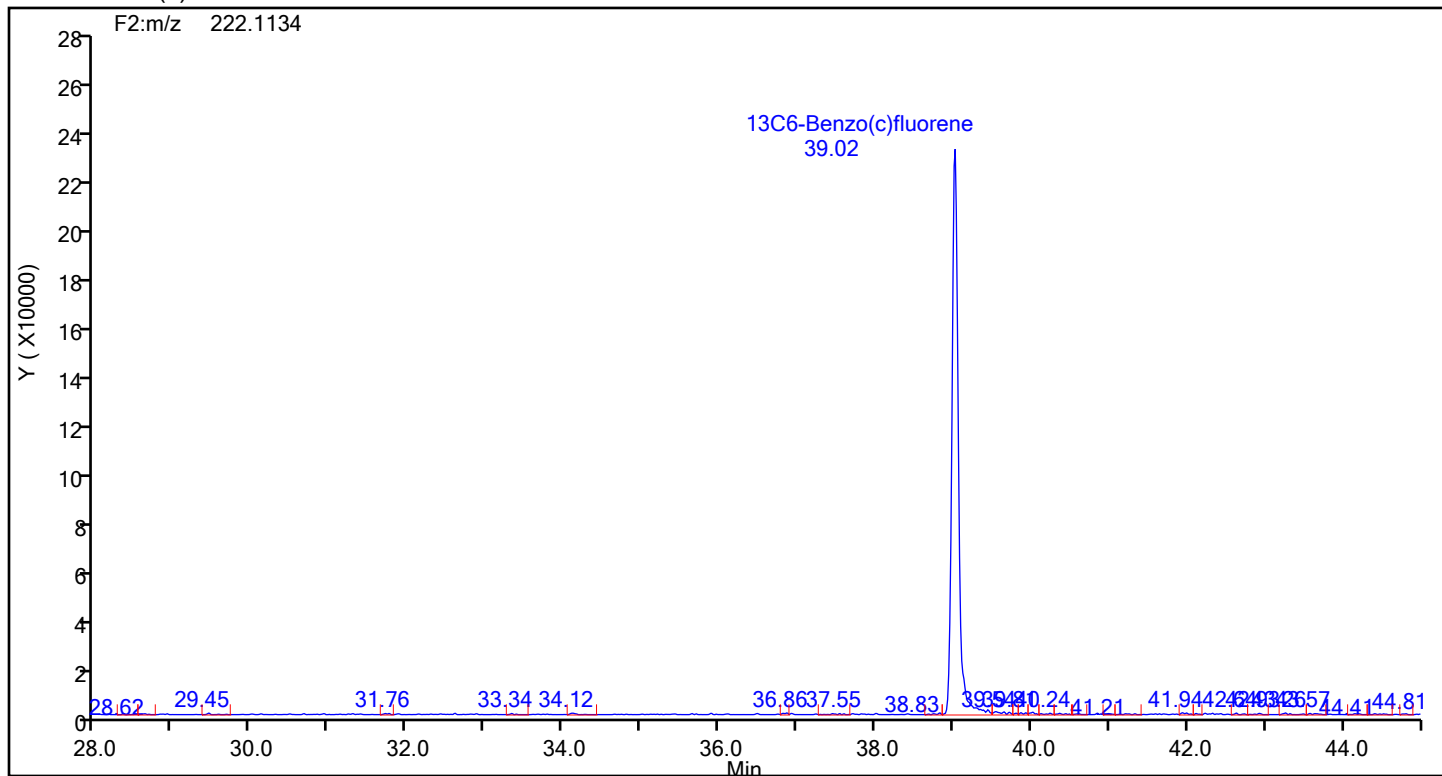
## Pyrene Standards



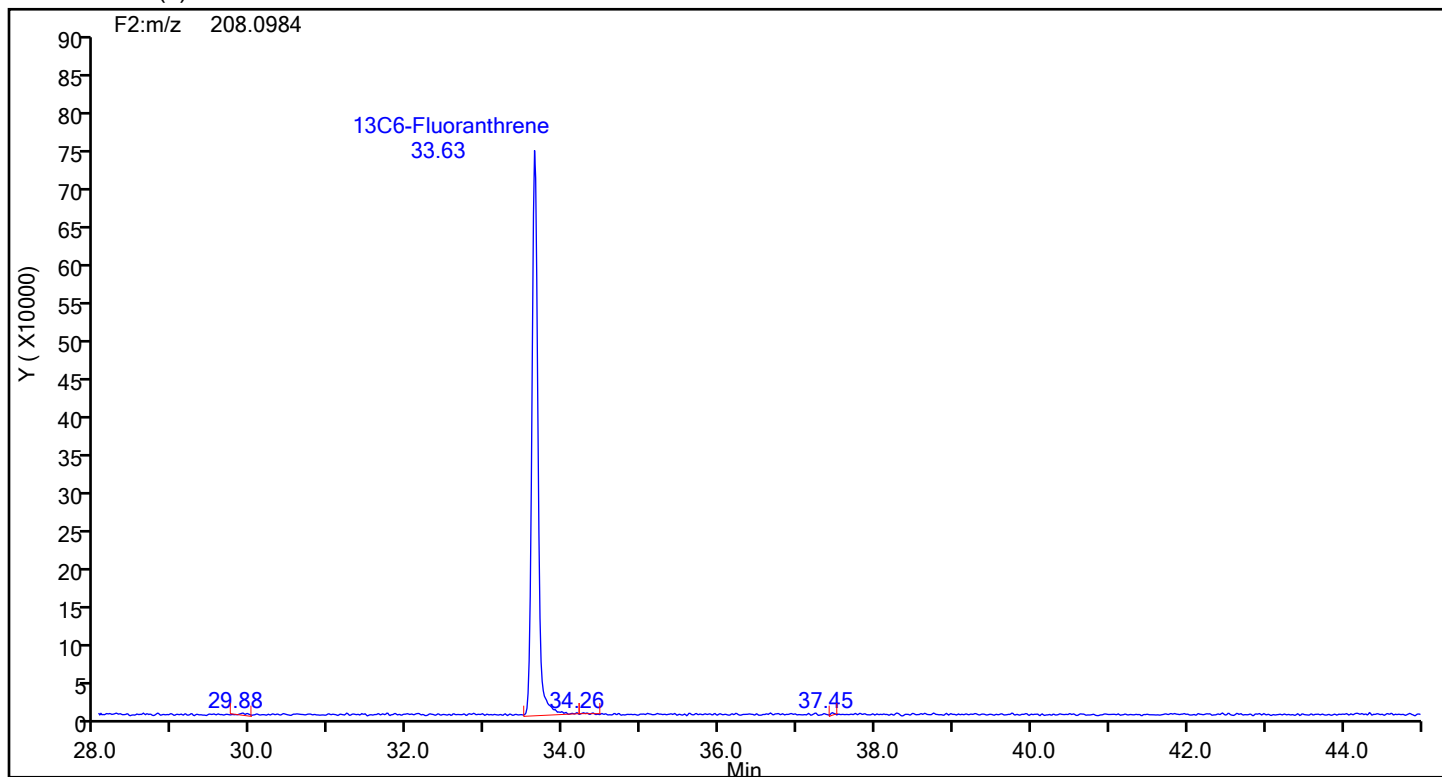
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



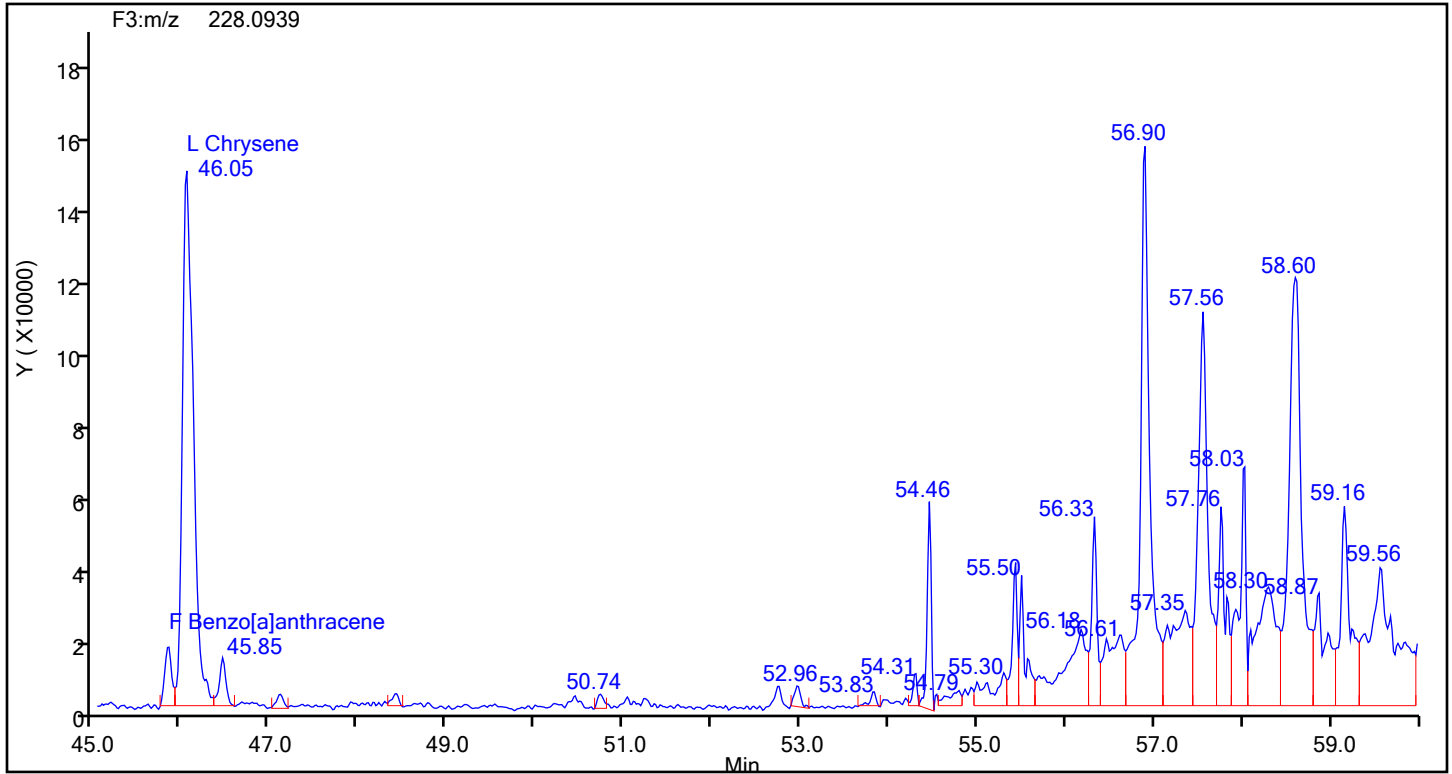
## 13C6-Benzo(c)fluorene Standards



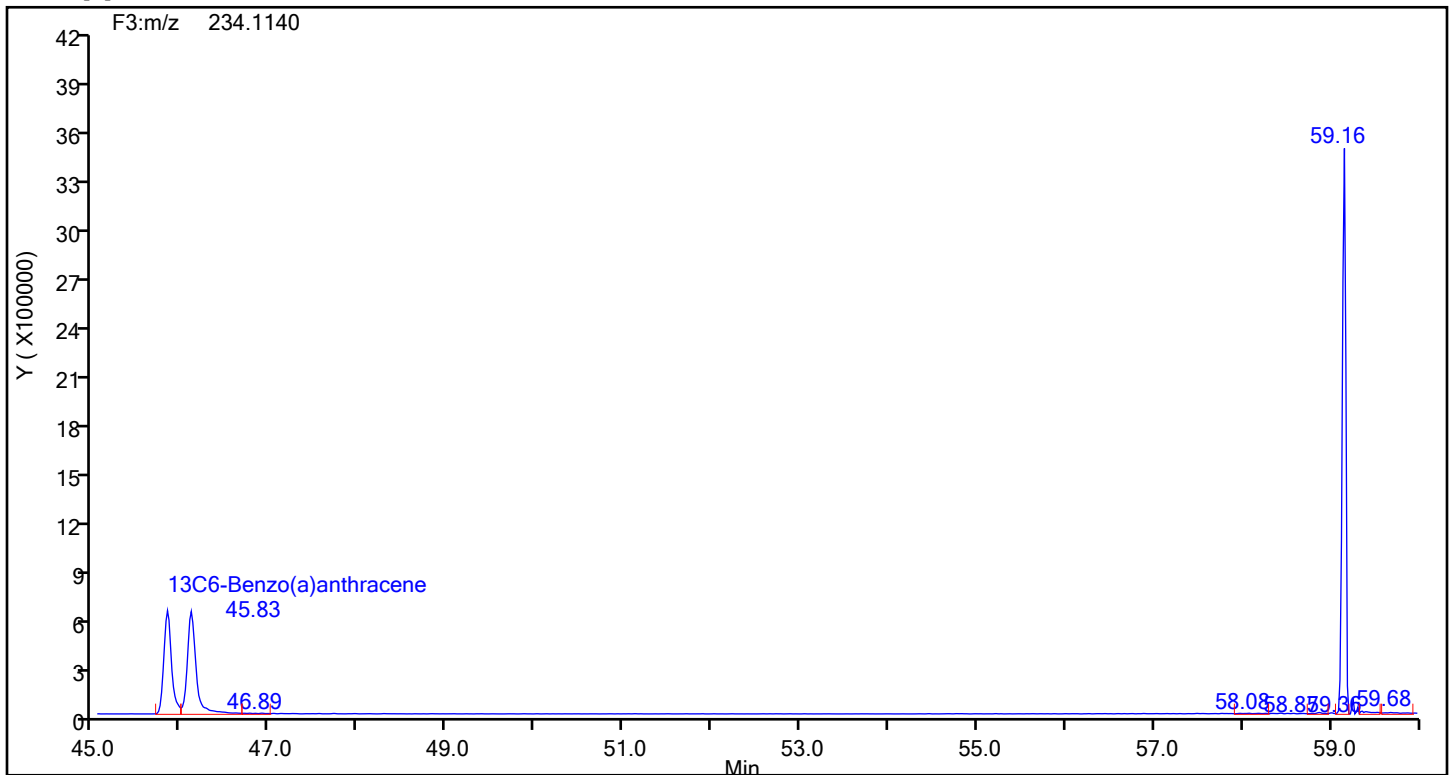
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



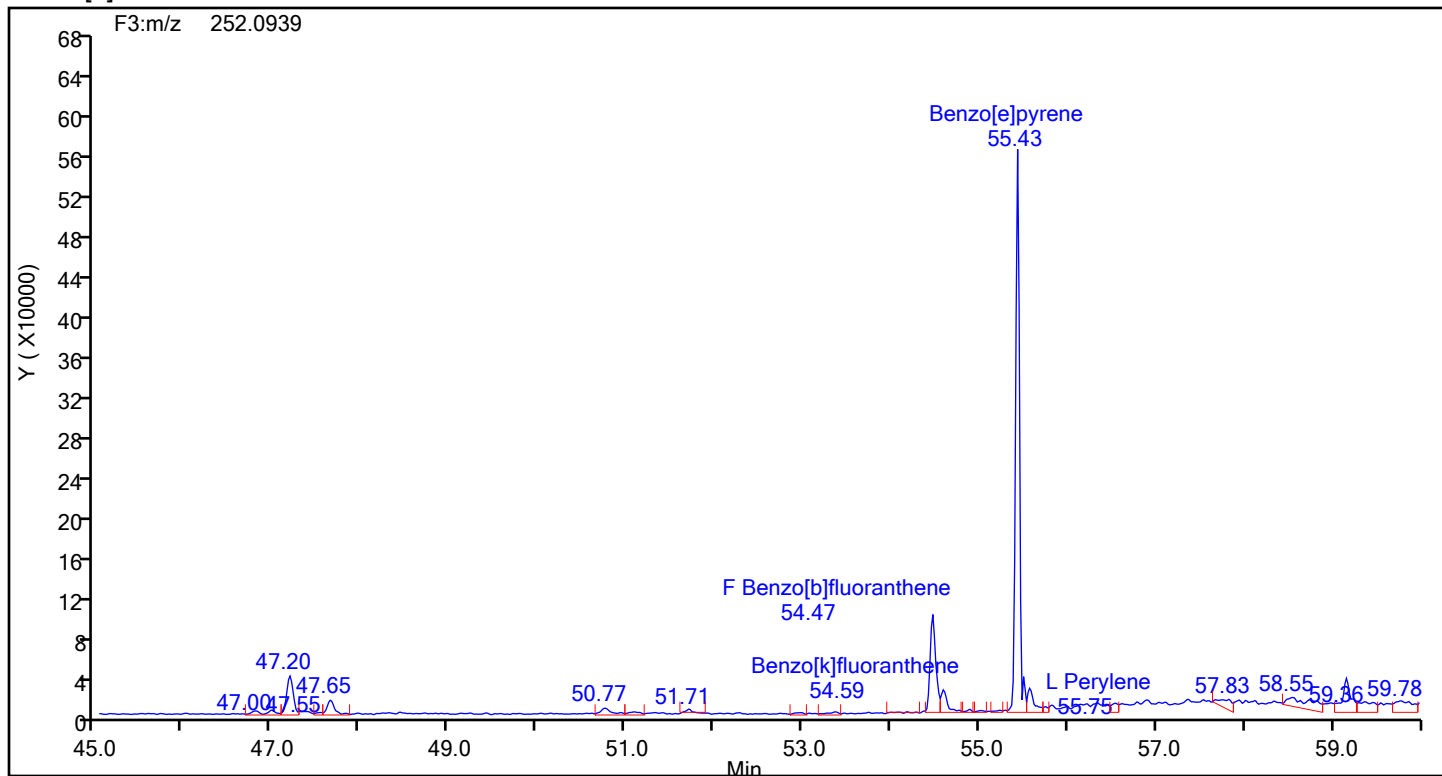
## Benzo[a]anthracene Standards



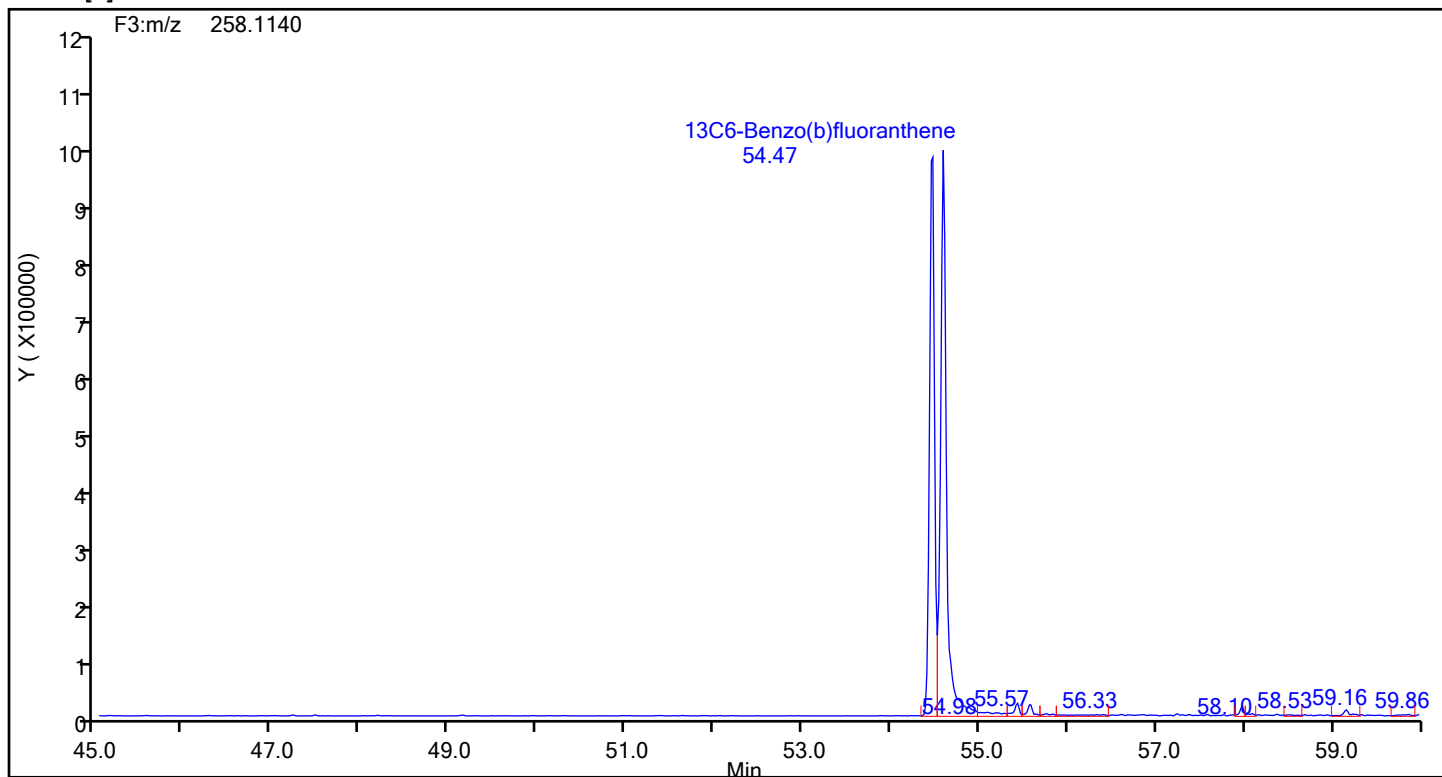
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



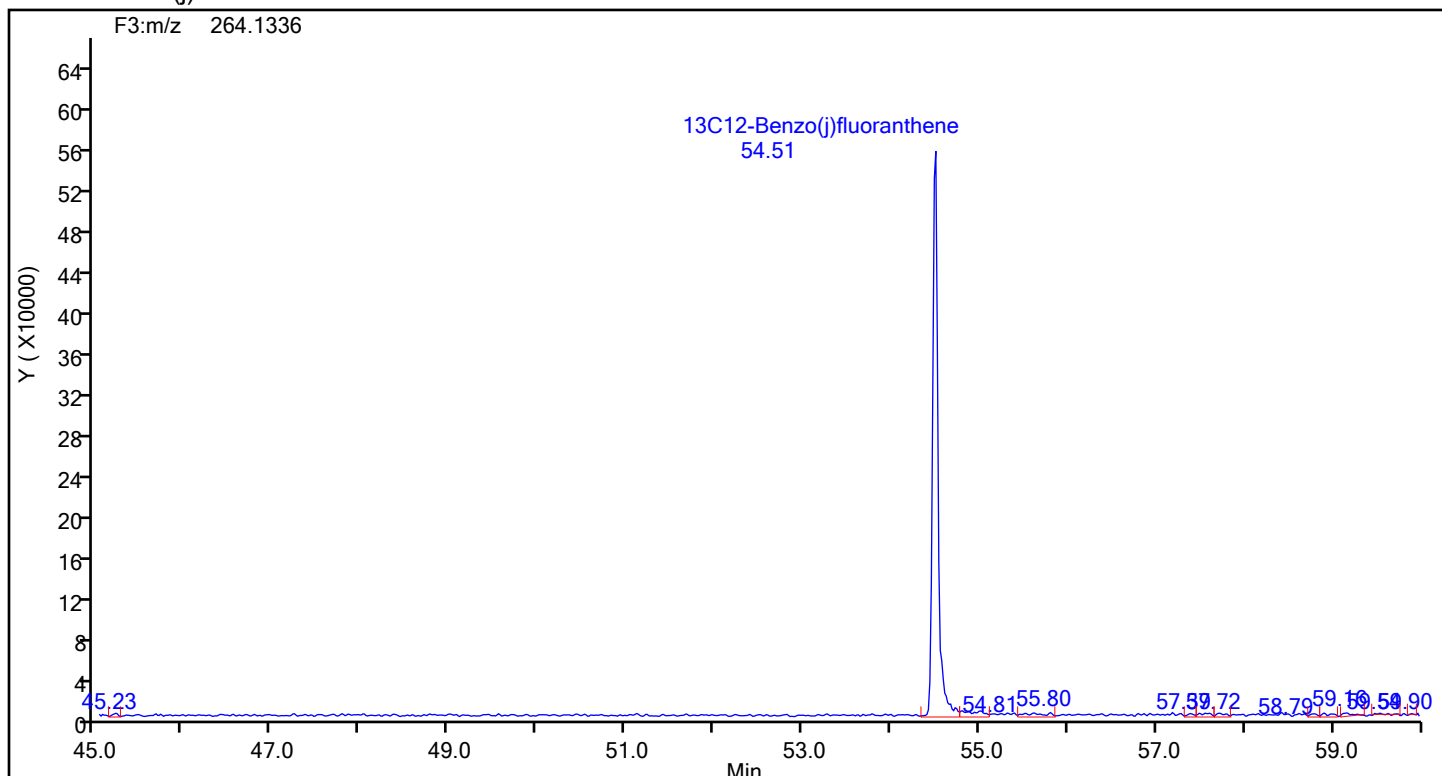
## Benzo[b]fluoranthene Standards



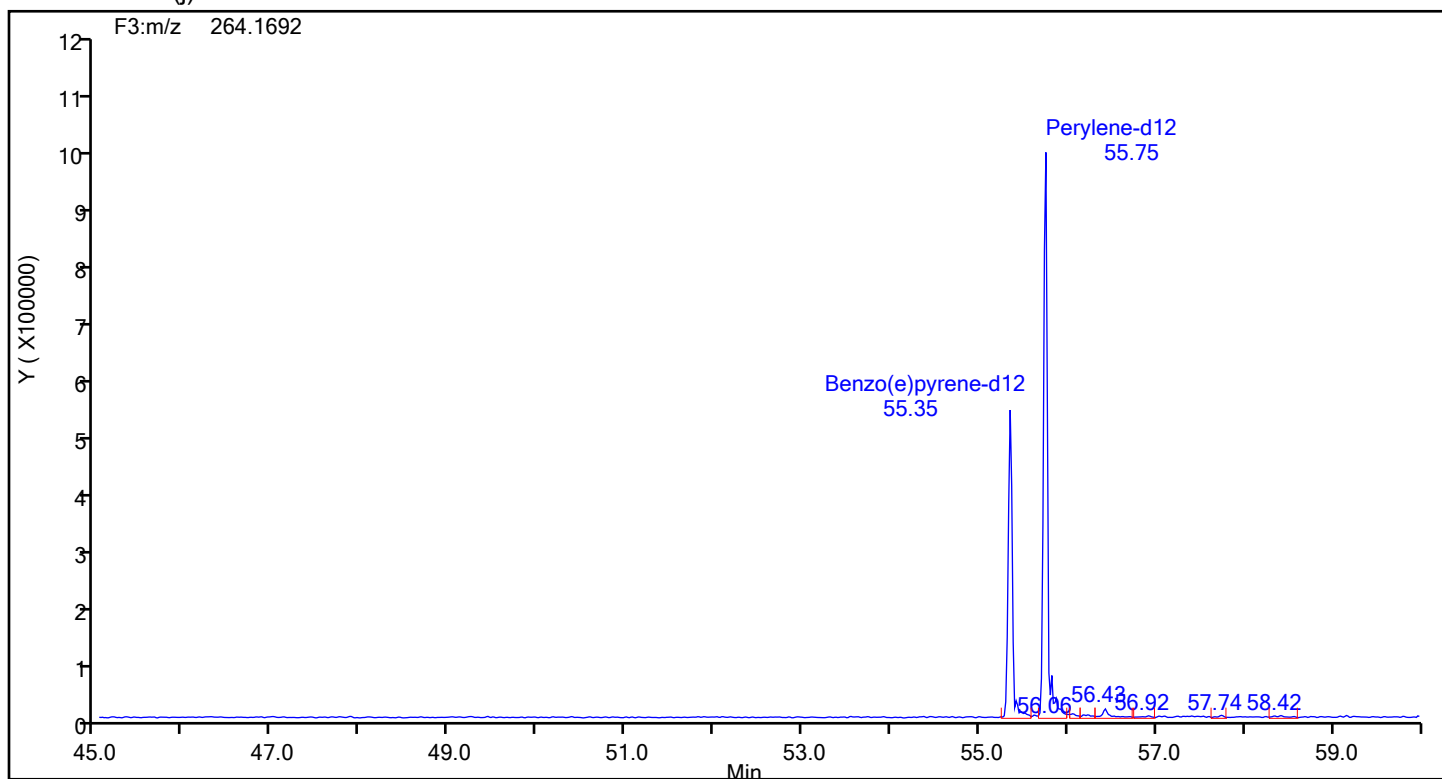
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



## 13C12-Benzo(j)fluoranthene Standards

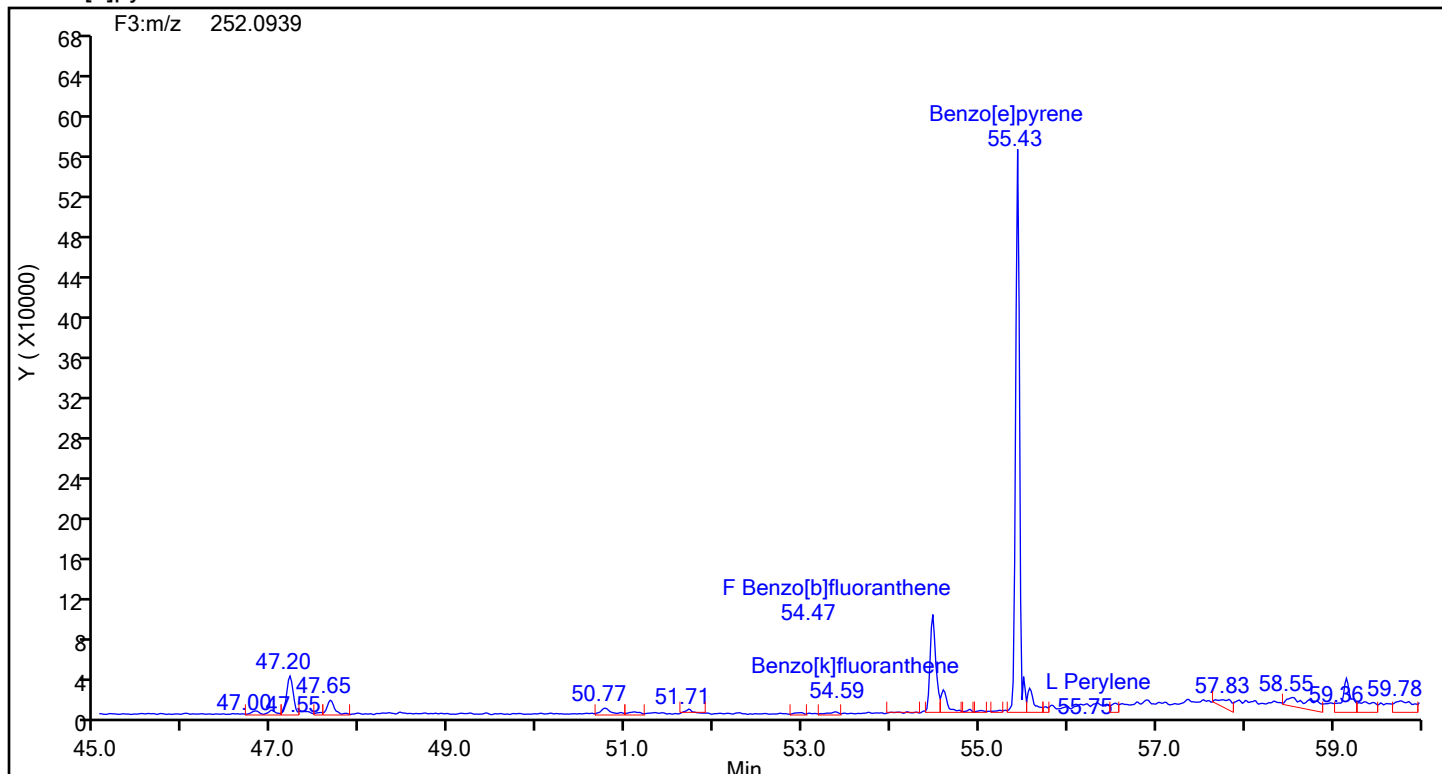




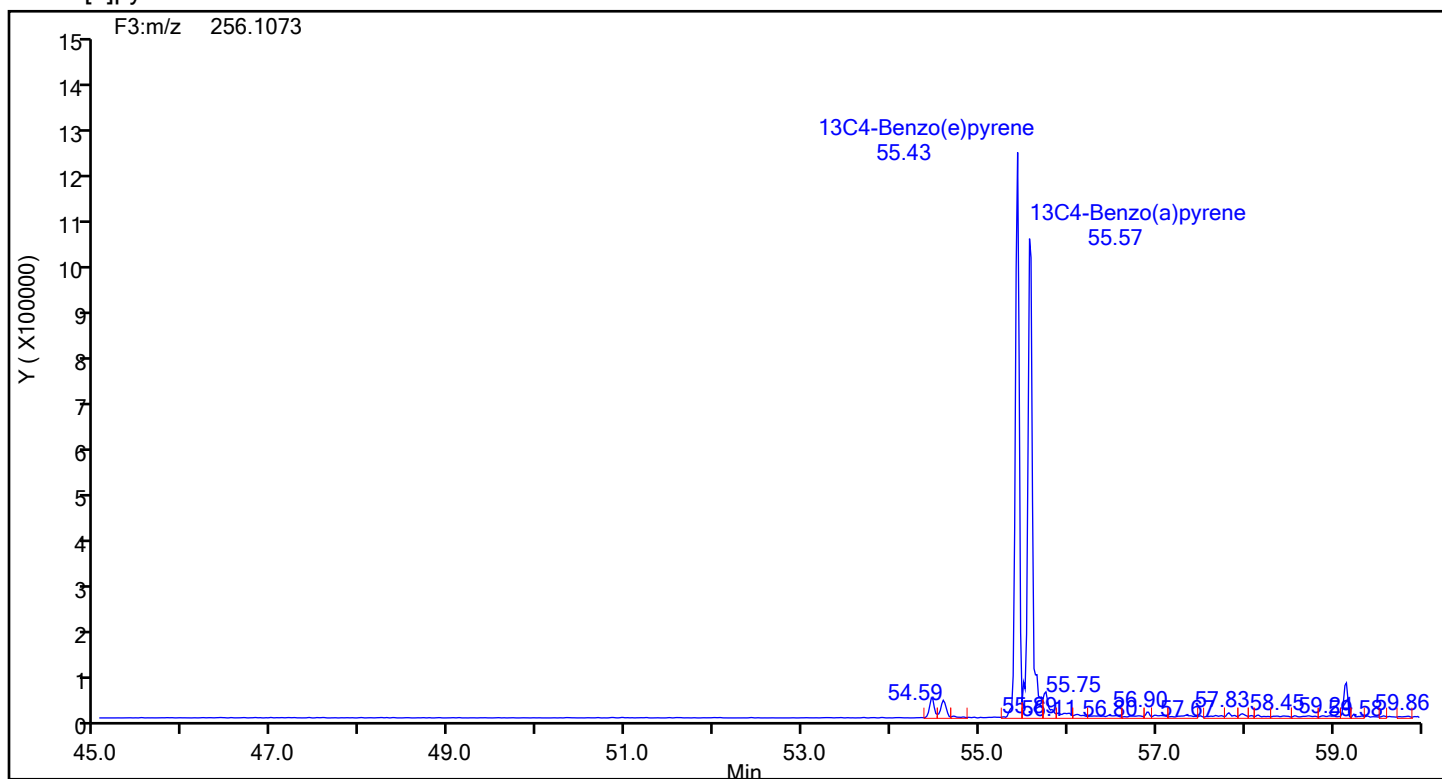
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene

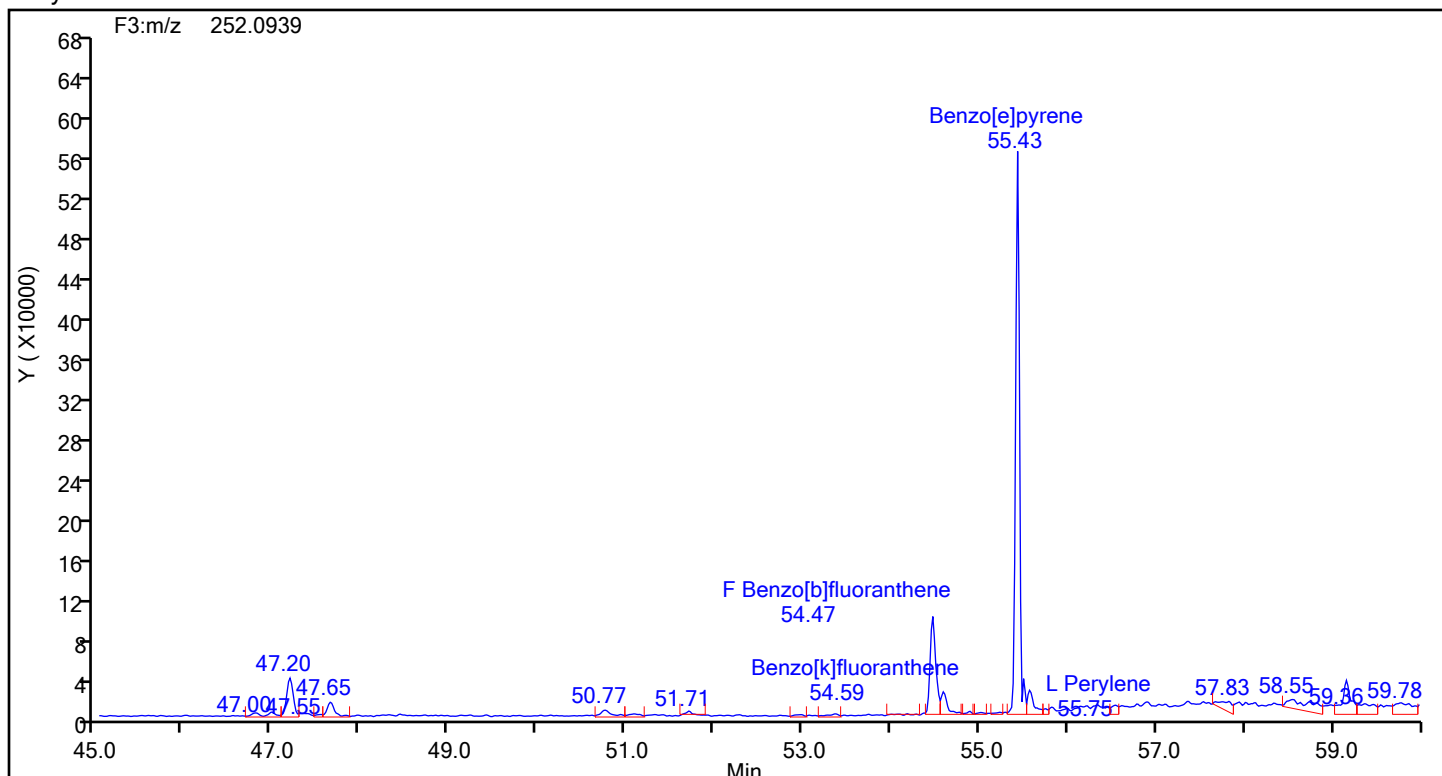


## Benzo[e]pyrene Standards

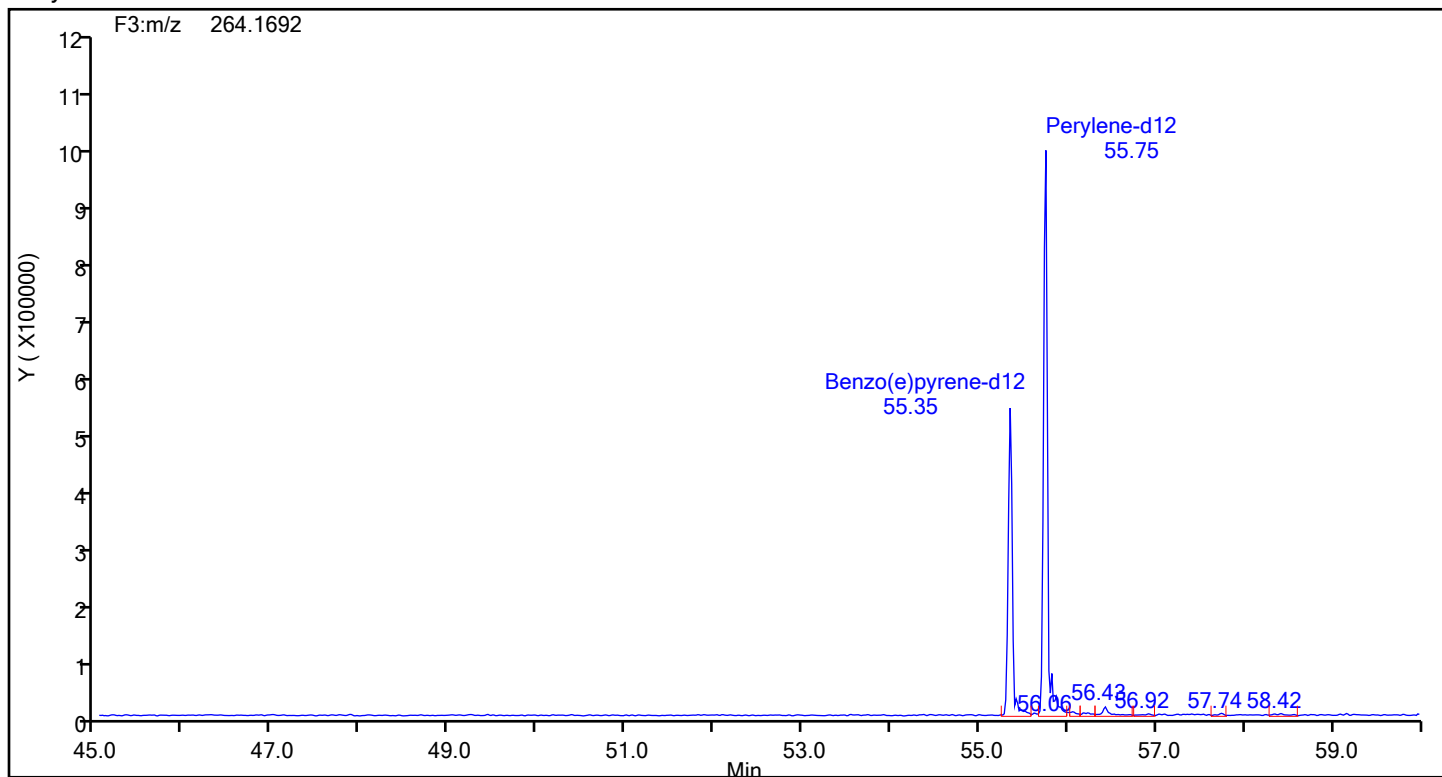


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Perylene



## Perylene Standards



## Eurofins Knoxville

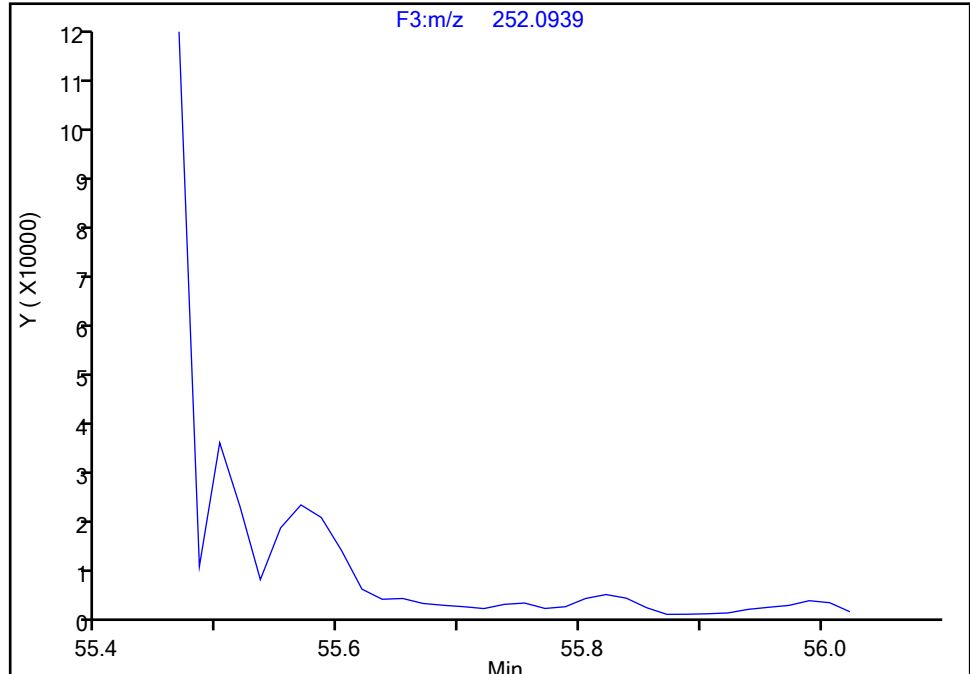
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-1-D Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Perylene, CAS: 198-55-0

Signal: 1

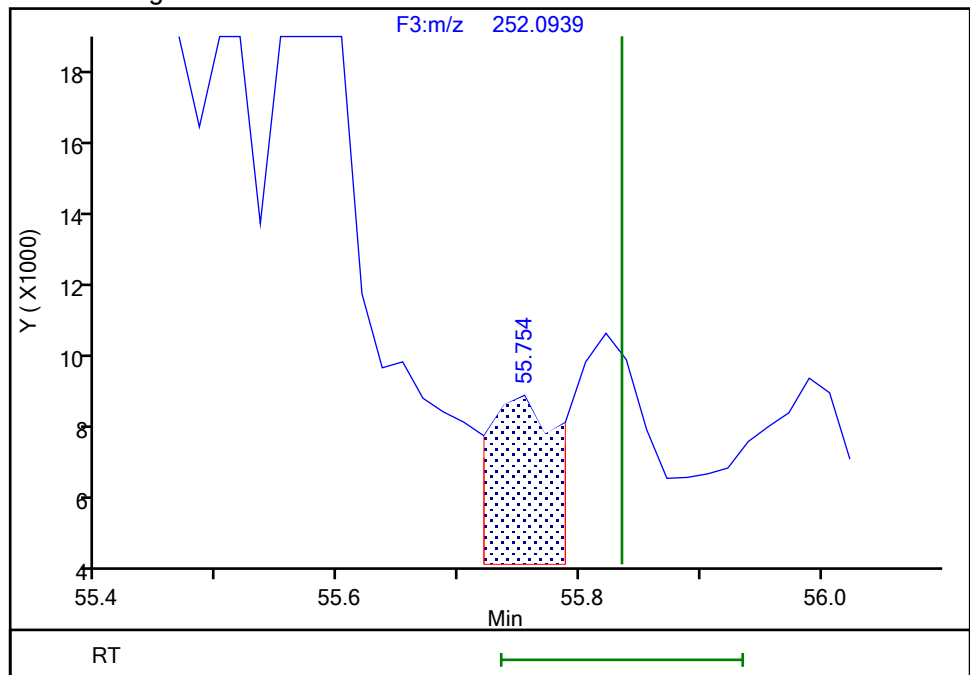
Not Detected  
Expected RT: 55.83

## Processing Integration Results



RT: 55.75  
Area: 18532  
Amount: 0.042096  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 16-Jul-2024 20:14:20 -04:00:00 (UTC)

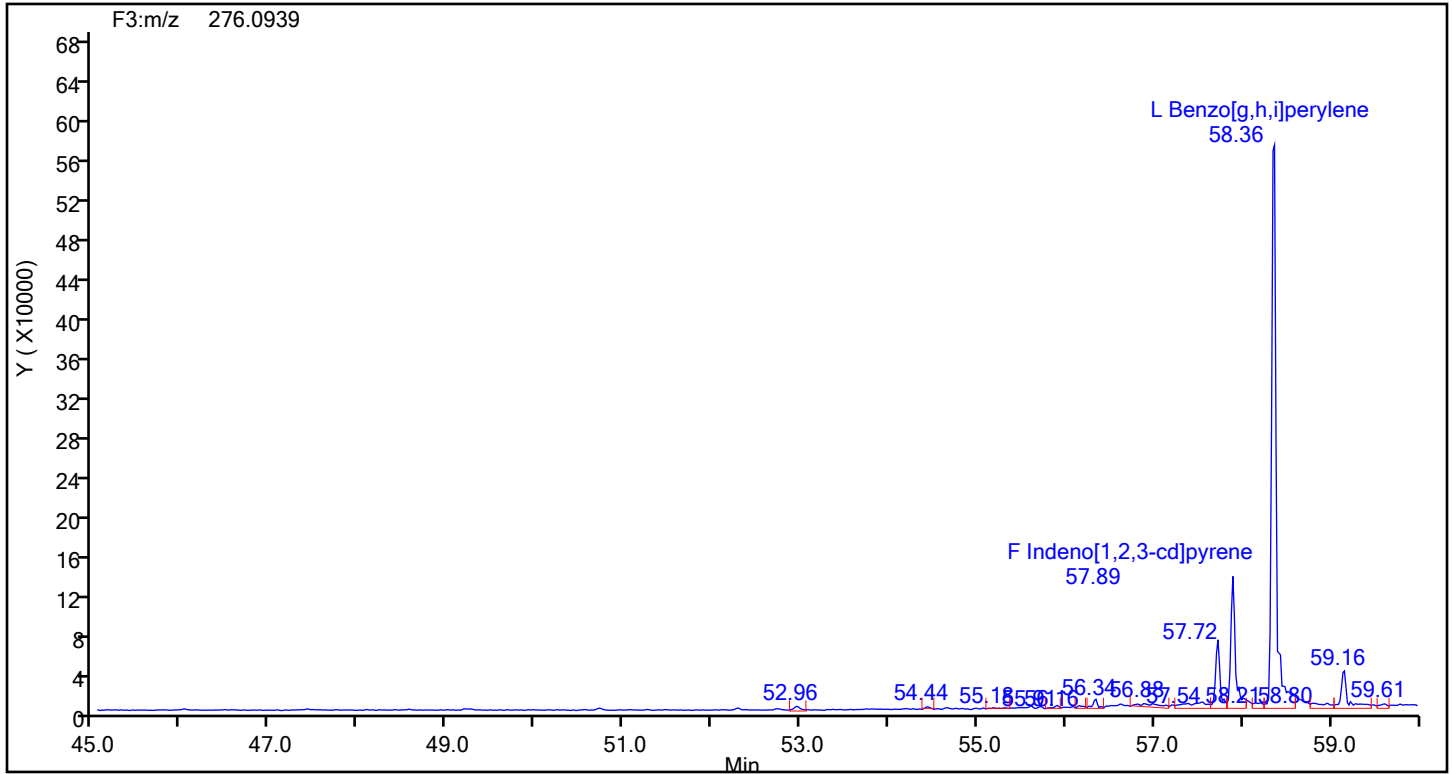
Audit Action: Manually Integrated

Audit Reason: Baseline

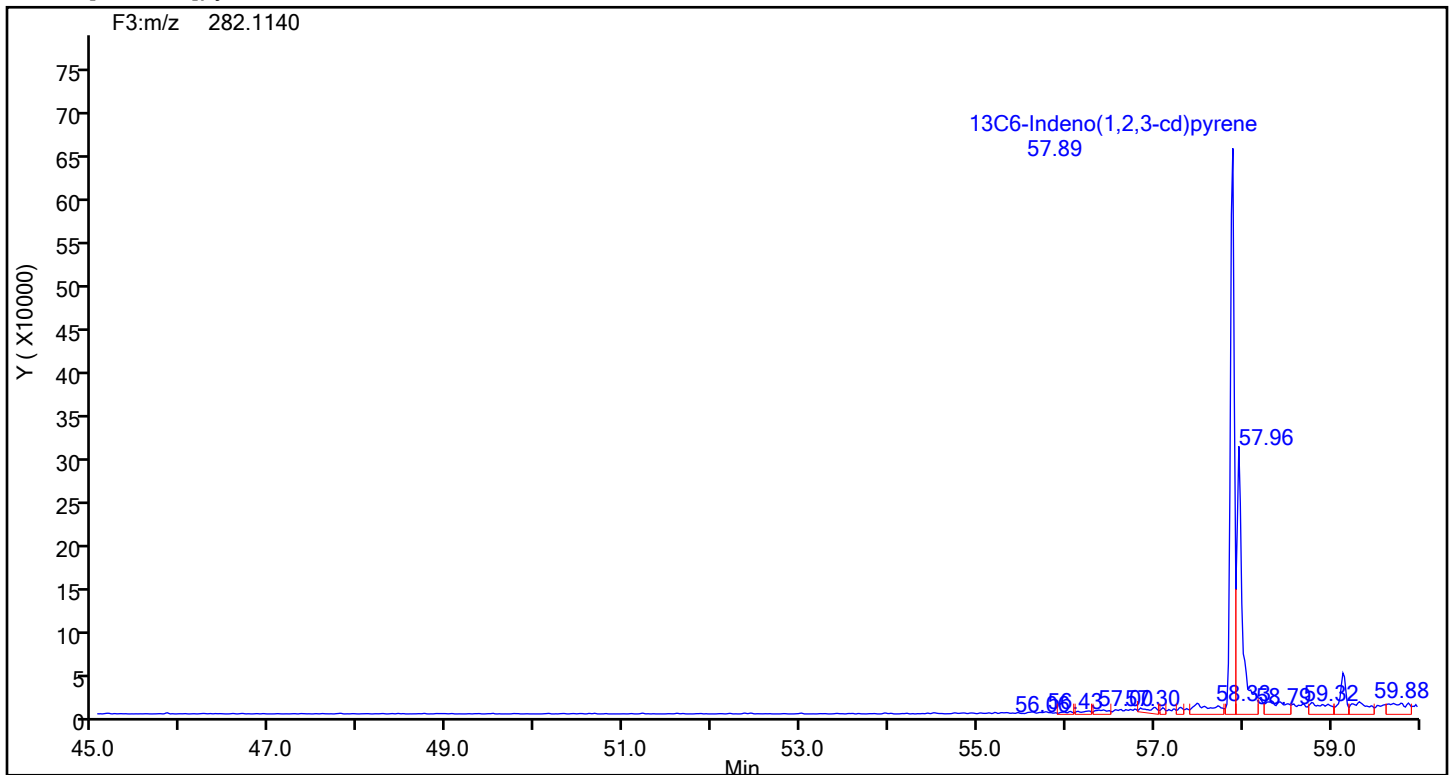
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



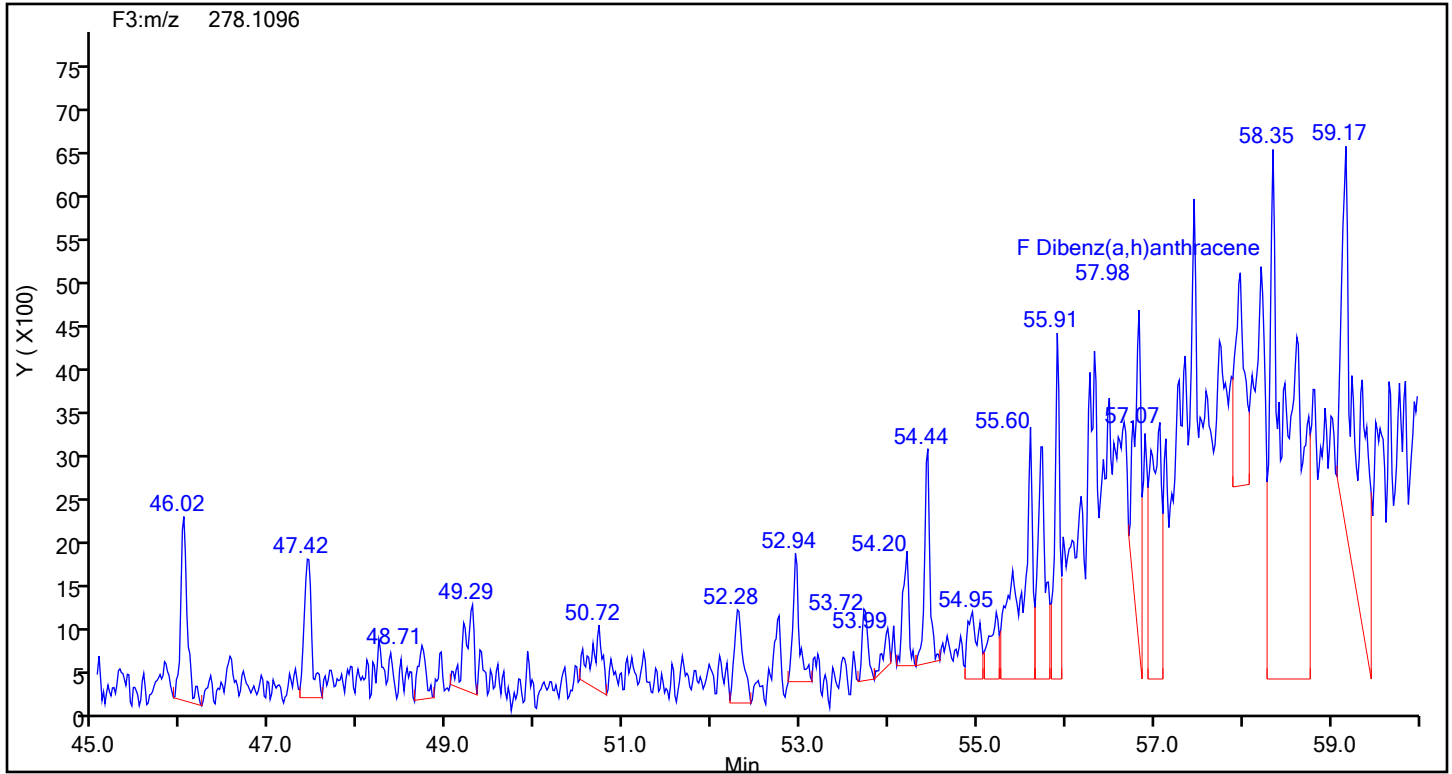
## Indeno[1,2,3-cd]pyrene Standards



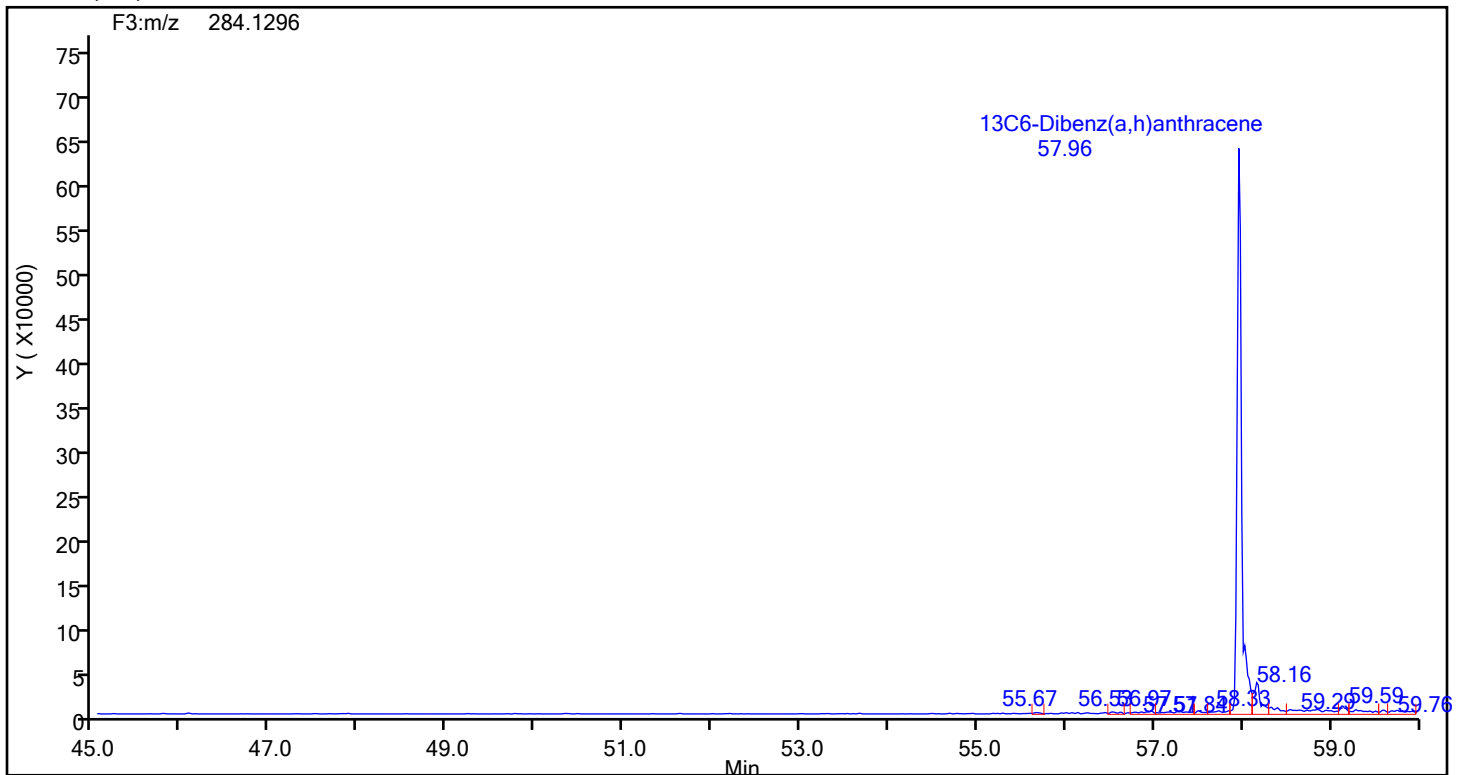
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

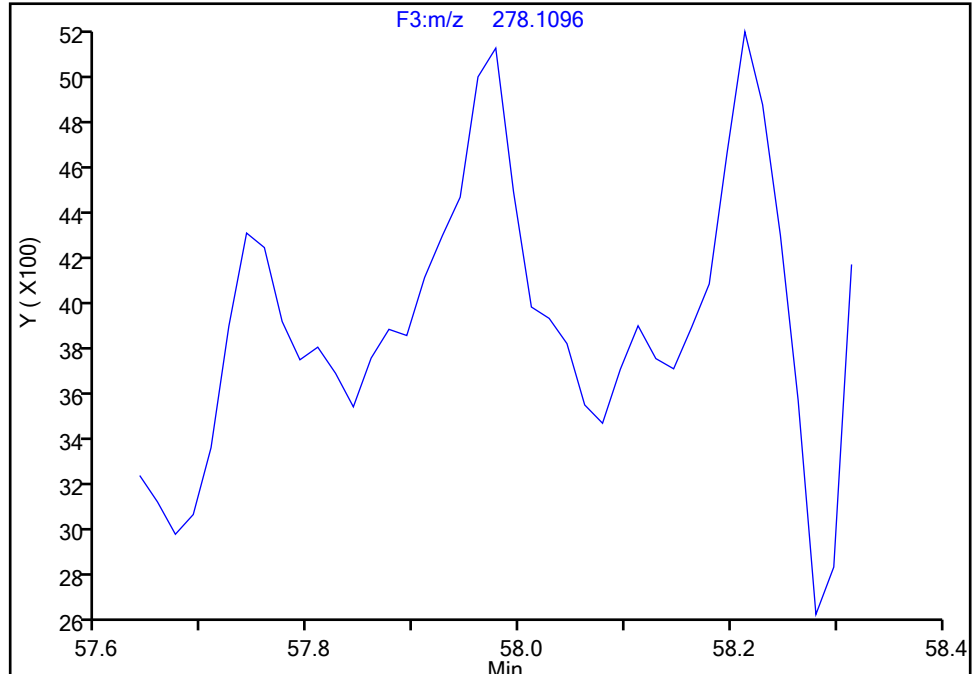
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-1-D Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**Dibenz(a,h)anthracene, CAS: 53-70-3**

Signal: 1

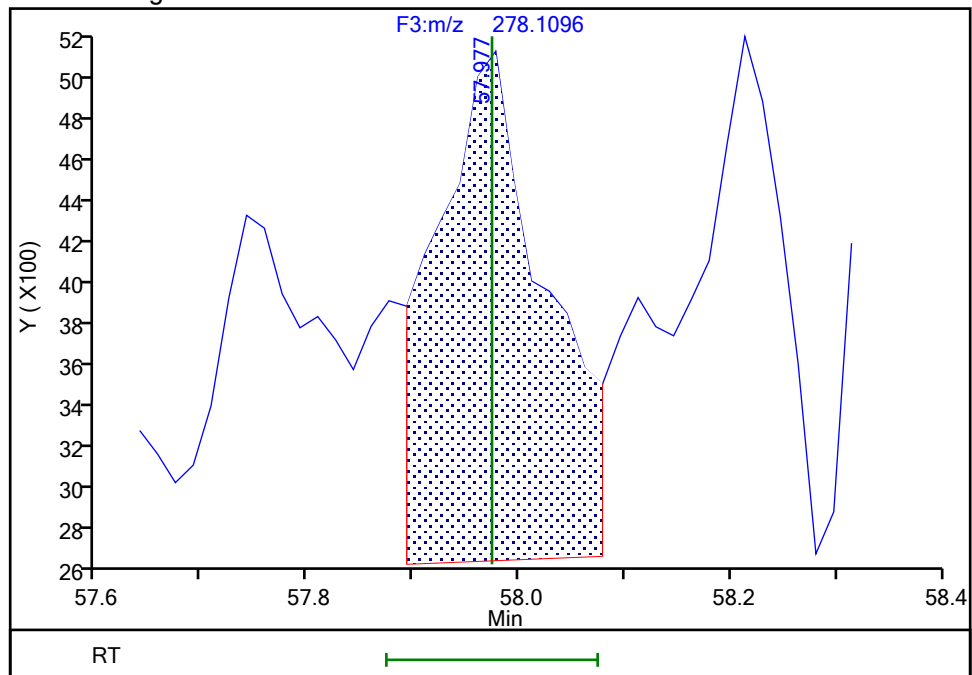
Not Detected  
Expected RT: 57.97

## Processing Integration Results



RT: 57.98  
Area: 18293  
Amount: 0.070582  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 16-Jul-2024 20:14:55 -04:00:00 (UTC)

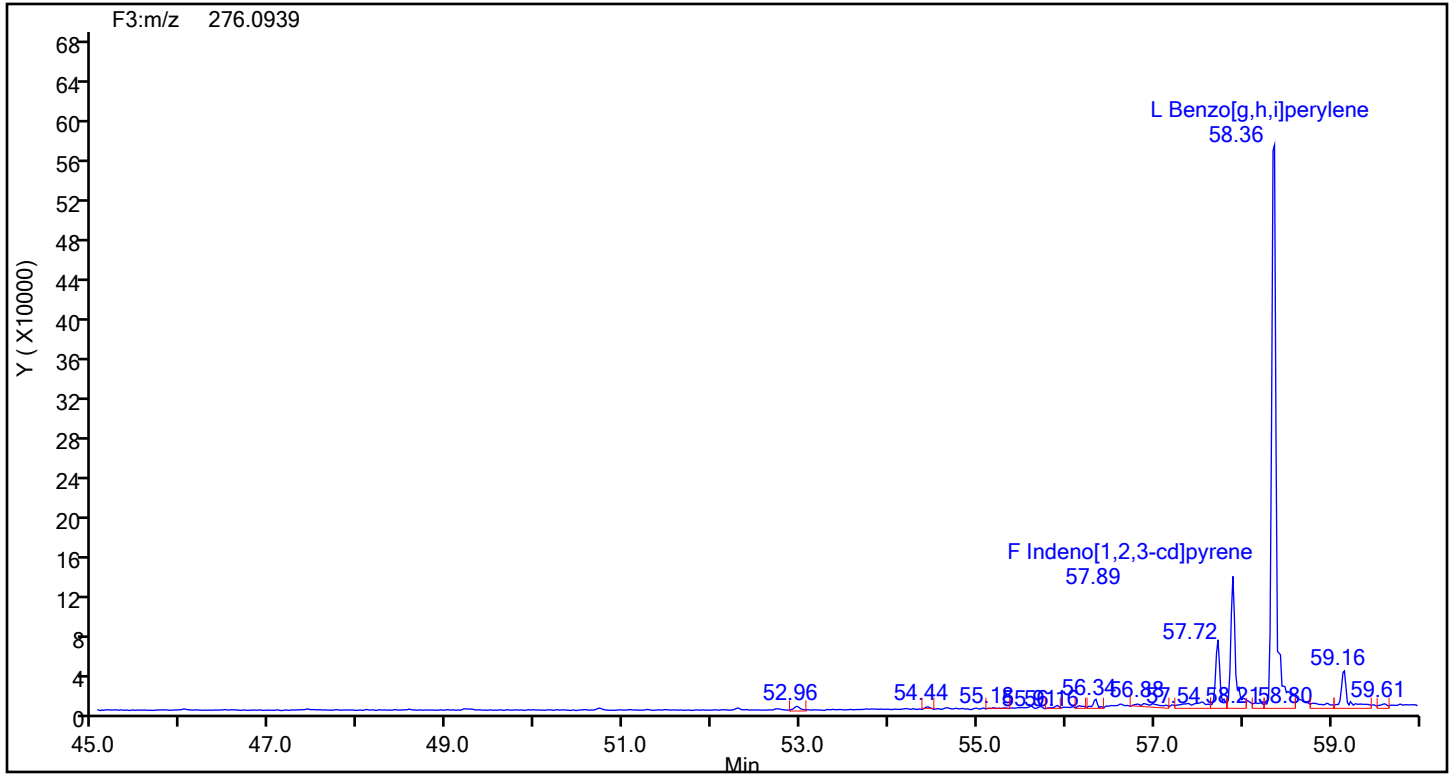
Audit Action: Manually Integrated

Audit Reason: Baseline

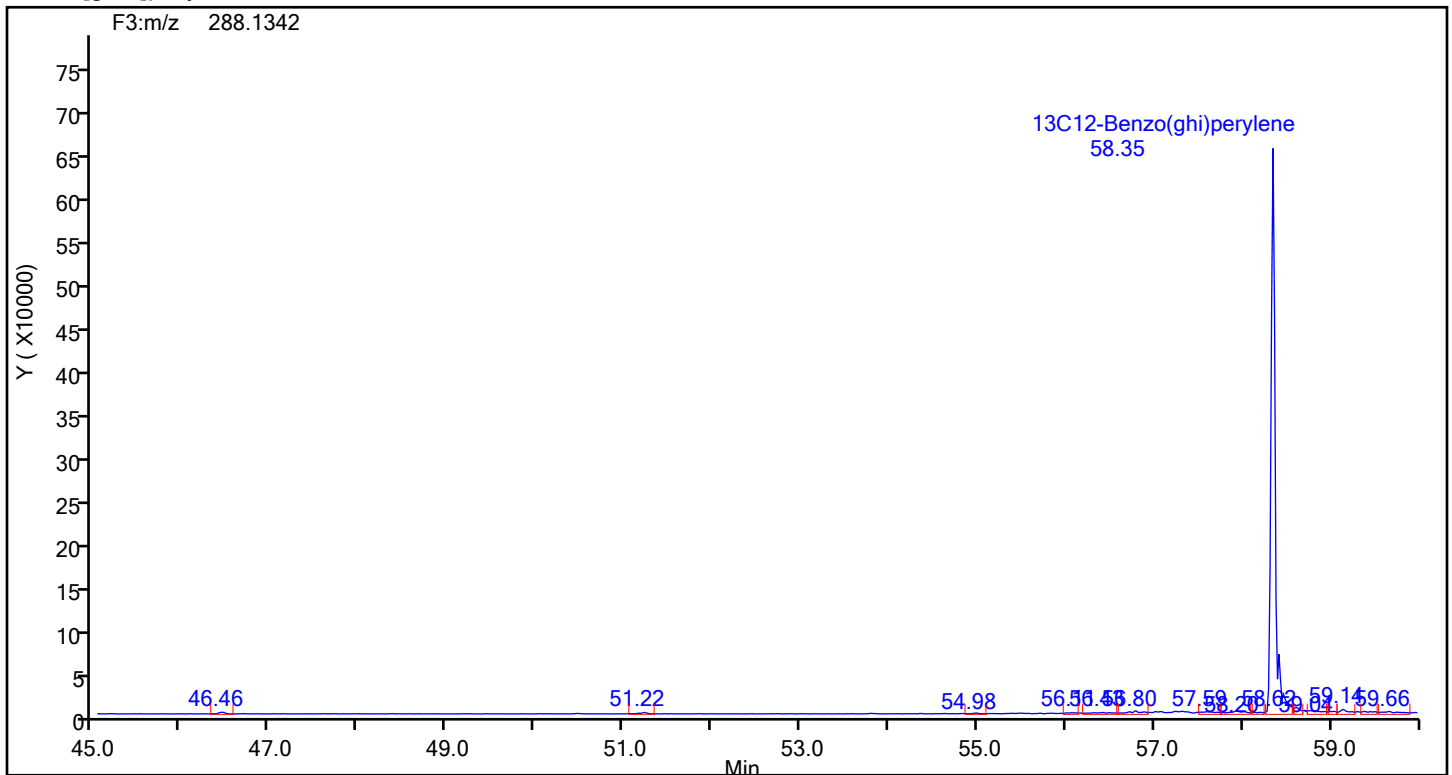
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Injection Date: 16-Jul-2024 19:03:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88812 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-1-d\_20240716185927.d  
Lims ID: 140-36940-A-1-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Sample Type: Client  
Inject. Date: 16-Jul-2024 19:03:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033522-010  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 16-Jul-2024 20:15:27 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1628

First Level Reviewer: Q9DB

Date: 16-Jul-2024 20:15:27

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.1818	18.18
13C6-Benzo(c)fluorene	66.7	6.78	101.72
13C12-Benzo(j)fluoranthene	66.7	5.04	75.60



FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>2-COMBINED</u>	Lab Sample ID: <u>140-36940-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-2-d_20240716200352</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 18:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 20:07</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88812</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	1840	B	750	750	2.28
91-57-6	2-Methylnaphthalene	614	J B	750	750	0.488
208-96-8	Acenaphthylene	12.2	J B	30.0	30.0	1.07
83-32-9	Acenaphthene	103	J B	300	300	1.01
86-73-7	Fluorene	235	J B	300	300	0.437
85-01-8	Phenanthrene	1100	B	60.0	60.0	0.893
120-12-7	Anthracene	54.6	J	300	300	0.675
206-44-0	Fluoranthene	77.3	B	60.0	60.0	0.416
129-00-0	Pyrene	82.0	B	60.0	60.0	0.416
56-55-3	Benzo[a]anthracene	3.24	J B	60.0	60.0	0.253
218-01-9	Chrysene	20.7	J B	60.0	60.0	0.237
205-99-2	Benzo[b]fluoranthene	4.71	J B	300	300	0.111
207-08-9	Benzo[k]fluoranthene	1.36	J B	60.0	60.0	0.103
192-97-2	Benzo[e]pyrene	12.3	J B	60.0	60.0	0.0915
50-32-8	Benzo[a]pyrene	2.58	J	30.0	30.0	0.0945
198-55-0	Perylene	ND		30.0	30.0	0.0832
193-39-5	Indeno[1,2,3-cd]pyrene	5.41	J B	30.0	30.0	0.102
53-70-3	Dibenz(a,h)anthracene	2.10	J B	60.0	60.0	0.0544
191-24-2	Benzo[g,h,i]perylene	19.2	J B	60.0	60.0	0.0936

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>2-COMBINED</u>	Lab Sample ID: <u>140-36940-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-2-d_20240716200352</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 18:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 20:07</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88812</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	56		20-130
STL03357	13C6-2-Methylnaphthalene	67		20-130
189811-56-1	13C6-Acenaphthylene	77		20-130
189811-57-2	13C6-Acenaphthene	83		20-130
STL00616	13C6-Fluorene	83		20-130
1397194-60-3	13C6-Fluoranthrene	87		20-130
1397214-90-2	13C3-Pyrene	87		20-130
917378-11-1	13C6-Benzo (a) anthracene	67		20-130
1397177-72-8	13C6-Chrysene	70		20-130
STL03358	13C6-Benzo (b) fluoranthene	66		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	68		20-130
STL03382	13C4-Benzo (e) pyrene	60		20-130
STL03359	13C4-Benzo (a) pyrene	65		20-130
1520-96-3	Perylene-d12	67		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	41		20-130
STL03360	13C6-Dibenz (a,h) anthracene	50		20-130
350820-11-0	13C12-Benzo (ghi) perylene	38		20-130
189811-60-7	13C6-Anthracene	72		20-130
1189955-53-0	13C6-Phenanthrene	56		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Lims ID: 140-36940-A-2-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Sample Type: Client  
Inject. Date: 16-Jul-2024 20:07:00 ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033522-011  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 16-Jul-2024 21:15:30 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1628

First Level Reviewer: Q9DB

Date: 16-Jul-2024 21:15:30

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:24	2245621		3.3746	5.634	5.634	0.003213	0.003213	56.34	
Naphthalene	11:24	35546462		1.2893	122.8	122.8	0.1519	0.1519		
D 13C6-2-Methylnaphthalene	13:47	1266503		1.6031	6.689	6.689	0.001555	0.001555	66.89	
2-Methylnaphthalene	13:47	6631674		1.2786	41.0	41.0	0.0326	0.0326		
D 13C6-Acenaphthylene	16:38	1507302		1.6520	7.725	7.725	0.002722	0.002722	77.25	
Acenaphthylene	16:38	185276		2.3661	0.8163	0.8163	0.0711	0.0711		M
* Acenaphthene-d10	17:13	590529		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:20	959260		0.9792	8.295	8.295	0.003726	0.003726	82.95	
Acenaphthene	17:20	832440		1.2697	6.835	6.835	0.0673	0.0673		
D 13C6-Fluorene	19:36	871109		0.8898	8.289	8.289	0.005053	0.005053	82.89	
Fluorene	19:36	1713190		1.2532	15.7	15.7	0.0291	0.0291		
D 13C6-Phenanthrene	24:57	1180682		0.5724	5.570	5.570	0.000838	0.000838	55.70	
Phenanthrene	24:57	9556076		1.1044	73.3	73.3	0.0595	0.0595		
\$ Anthracin-d10	25:09	2408		0.4257	0.0153	0.0153	0.000070	0.000070	1.53	
D 13C6-Anthracene	25:17	1202493		0.4523	7.178	7.178	0.001060	0.001060	71.78	
Anthracene	25:17	594848		1.3586	3.641	3.641	0.0450	0.0450		
D 13C6-Fluoranthrene	33:41	3869809		1.1994	8.712	8.712	0.0141	0.0141	87.12	
Fluoranthene	33:41	2294709		1.1513	5.150	5.150	0.0278	0.0278		
* Pyrene-d10	35:13	1851670		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:21	4345048		1.3512	8.683	8.683	0.008210	0.008210	86.83	
Pyrene	35:21	2530364		1.0652	5.467	5.467	0.0277	0.0277		
\$ 13C6-Benzo(c)fluorene	39:04	1250513		0.5136	6.575	6.575	0.005838	0.005838	98.62	
D 13C6-Benzo(a)anthracene	45:53	3659022		1.5189	6.710	6.710	0.004695	0.004695	67.10	
Benzo[a]anthracene	45:54	76966		0.9739	0.2160	0.2160	0.0168	0.0168		
D 13C6-Chrysene	46:09	4104137		1.6287	7.018	7.018	0.004379	0.004379	70.18	
Chrysene	46:06	556370		0.9815	1.381	1.381	0.0158	0.0158		
D 13C6-Benzo(b)fluoranthene	54:30	3470623		1.4621	6.612	6.612	0.001699	0.001699	66.12	
Benzo[b]fluoranthene	54:30	122707		1.1249	0.3143	0.3143	0.007387	0.007387		M
\$ 13C12-Benzo(j)fluoranthene	54:33	2227143		1.3558	4.575	4.575	0.006414	0.006414	68.63	
D 13C6-Benzo(k)fluoranthene	54:38	4298223		1.7507	6.838	6.838	0.001419	0.001419	68.38	
Benzo[k]fluoranthene	54:38	44079		1.1271	0.0910	0.0910	0.006888	0.006888		M
* Benzo(e)pyrene-d12	55:24	1795178		5.7E+04	5.000	5.000				
D 13C4-Benzo(e)pyrene	55:29	3545549		1.6368	6.033	6.033	0.002474	0.002474	60.33	
Benzo[e]pyrene	55:29	290960		1.0013	0.8196	0.8196	0.006103	0.006103		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:38	3640109		1.5508	6.538	6.538	0.002611	0.002611	65.38	
Benzo[a]pyrene	55:38	69783		1.1130	0.1722	0.1722	0.006301	0.006301		
D Perylene-d12	55:48	2849067		1.1917	6.659	6.659	0.007576	0.007576	66.59	
Perylene	55:51						0.005544	0.005544		
D 13C6-Indeno(1,2,3-cd)pyrene	57:56	1519262		1.0218	4.141	4.141	0.005076	0.005076	41.41	M
Indeno[1,2,3-cd]pyrene	57:56	61692		1.1249	0.3610	0.3610	0.006801	0.006801		M
D 13C6-Dibenz(a,h)anthracene	58:01	1909026		1.0553	5.039	5.039	0.002669	0.002669	50.39	
Dibenz(a,h)anthracene	58:01	30190		1.1314	0.1398	0.1398	0.003623	0.003623		M
D 13C12-Benzo(ghi)perylene	58:23	1758385		1.2749	3.842	3.842	0.003362	0.003362	38.42	
Benzo[g,h,i]perylene	58:24	289399		1.2838	1.282	1.282	0.006240	0.006240		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Lims ID: 140-36940-A-2-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Sample Type: Client  
Inject. Date: 16-Jul-2024 20:07:00 ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033522-011  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 16-Jul-2024 21:15:30 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1628

First Level Reviewer: Q9DB

Date: 16-Jul-2024 21:15:30

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:24	11:25	0	0.663	2245621	772988	169	422	4574		
Naphthalene											
128.0626	11:24	11:24	0	1.000	35546462	12135000	6055	15137	2004		
13C6-2-Methylnaphthalene											
148.0984	13:47	13:47	0	0.801	1266503	591339	39	97	15163		
2-Methylnaphthalene											
142.0783	13:47	13:47	0	1.000	6631674	2963227	985	2462	3008		
13C6-Acenaphthylene											
158.0828	16:38	16:38	0	0.967	1507302	514110	70	175	7344		
Acenaphthylene											
152.0626	16:38	16:38	0	1.000	185276	66937	2150	5375	31		M
Acenaphthene-d10											
164.1404	17:13	17:12	0		590529	194599	14	35	13900		M
13C6-Acenaphthene											
160.0984	17:20	17:20	0	1.007	959260	319513	57	142	5605		
Acenaphthene											
154.0783	17:20	17:20	0	1.001	832440	286172	1092	2730	262		
13C6-Fluorene											
172.0984	19:36	19:36	0	1.139	871109	263352	70	175	3762		
Fluorene											
166.0783	19:36	19:36	0	1.001	1713190	508677	385	962	1321		
13C6-Phenanthrene											
184.0984	24:57	24:56	0	0.708	1180682	259569	13	32	19967		
Phenanthrene											
178.0783	24:57	24:57	0	1.000	9556076	2100065	683	1707	3075		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:09	25:09	0	0.714	2408	1380	1	2	1380		
13C6-Anthracene											
184.0984	25:17	25:16	1	0.718	1202493	279276	13	32	21483		
Anthracene											
178.0783	25:17	25:18	0	1.000	594848	104101	683	1707	152		
13C6-Fluoranthrene											
208.0984	33:41	33:40	1	0.956	3869809	709162	451	1127	1572		
Fluoranthene											
202.0783	33:41	33:41	1	1.000	2294709	433141	907	2267	478		
Pyrene-d10											
212.1404	35:13	35:13	0		1851670	333541	59	147	5653		
13C3-Pyrene											
205.0883	35:21	35:20	1	1.004	4345048	768024	296	740	2595		
Pyrene											
202.0783	35:21	35:22	0	1.000	2530364	439535	907	2267	485		
13C6-Benzo(c)fluorene											
222.1134	39:04	39:04	1	0.705	1250513	215847	80	200	2698		
13C6-Benzo(a)anthracene											
234.1140	45:53	45:51	1	1.303	3659022	560993	301	752	1864		
Benzo[a]anthracene											
228.0939	45:54	45:53	2	1.000	76966	12902	368	920	35		
13C6-Chrysene											
234.1140	46:09	46:08	1	1.311	4104137	592430	301	752	1968		
Chrysene											
228.0939	46:06	46:09	-2	0.999	556370	62197	368	920	169		
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:30	1	0.984	3470623	848386	105	262	8080		
Benzo[b]fluoranthene											
252.0939	54:30	54:30	0	1.000	122707	26378	282	705	94		M
13C12-Benzo(j)fluoranthene											
264.1336	54:33	54:32	2	0.985	2227143	519966	367	917	1417		M
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:38	1	0.986	4298223	908108	105	262	8649		
Benzo[k]fluoranthene											
252.0939	54:38	54:38	1	1.000	44079	6134	282	705	22		M
Benzo(e)pyrene-d12											
264.1692	55:24	55:22	1		1795178	527241	381	952	1384		
13C4-Benzo(e)pyrene											
256.1073	55:29	55:29	1	1.002	3545549	1153757	171	427	6747		
Benzo[e]pyrene											
252.0939	55:29	55:29	1	1.000	290960	80370	282	705	285		
13C4-Benzo(a)pyrene											
256.1073	55:38	55:37	2	1.004	3640109	1005218	171	427	5878		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:38	55:38	2	1.000	69783	19115	282	705	68		
Perylene-d12											
264.1692	55:48	55:48	1	1.007	2849067	888858	381	952	2333		
Perylene											
252.0939	55:52						282	705			
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:56	57:56	2	1.046	1519262	503227	219	547	2298		M
Indeno[1,2,3-cd]pyrene											
276.0939	57:56	57:56	1	1.000	61692	16452	154	385	107		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:01	58:00	2	1.047	1909026	500072	119	297	4202		
Dibenz(a,h)anthracene											
278.1096	58:01	58:01	2	1.000	30190	5414	82	205	66		M
13C12-Benzo(ghi)perylene											
288.1342	58:23	58:23	1	1.054	1758385	480617	181	452	2655		
Benzo[g,h,i]perylene											
276.0939	58:24	58:24	2	1.000	289399	81928	154	385	532		M

### QC Flag Legend

Processing Flags

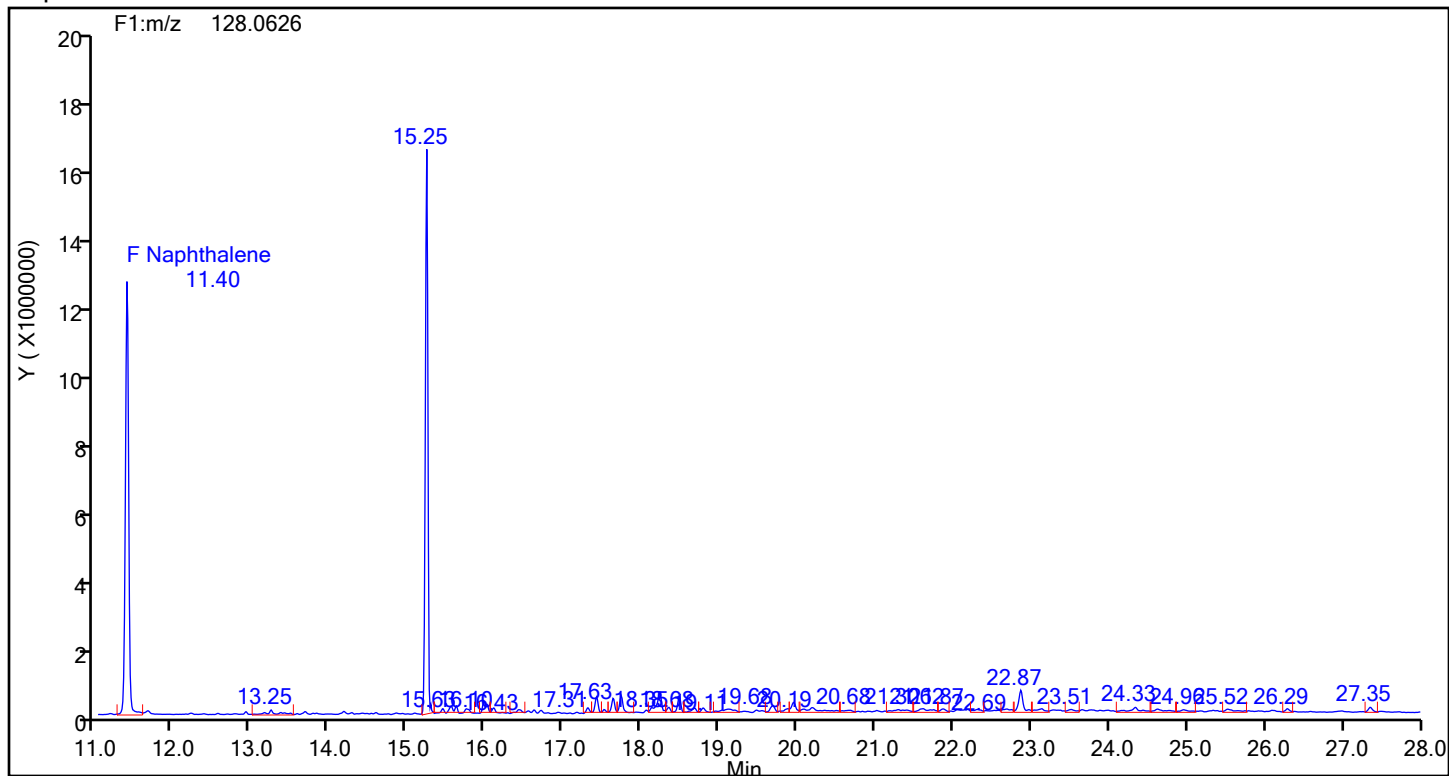
Review Flags

M - Manually Integrated

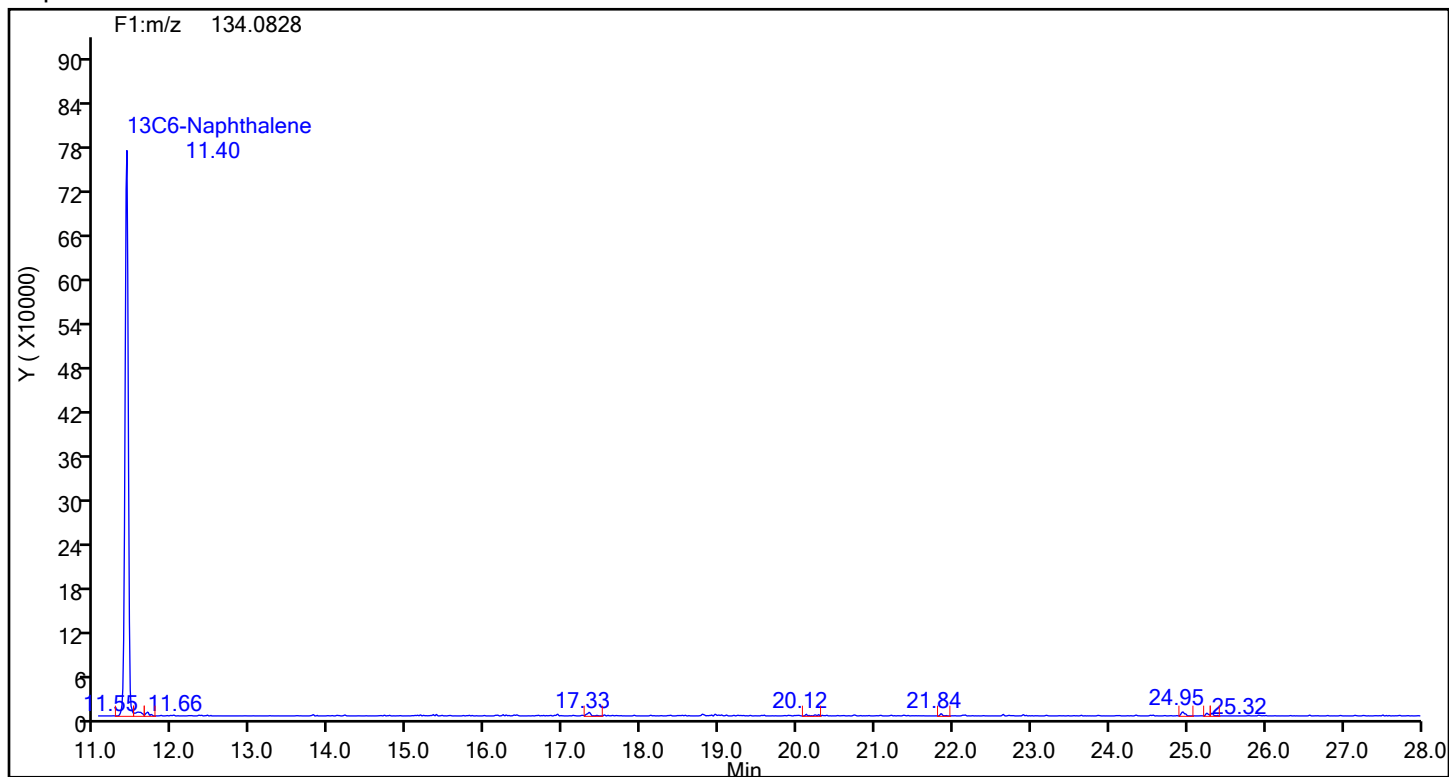
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards

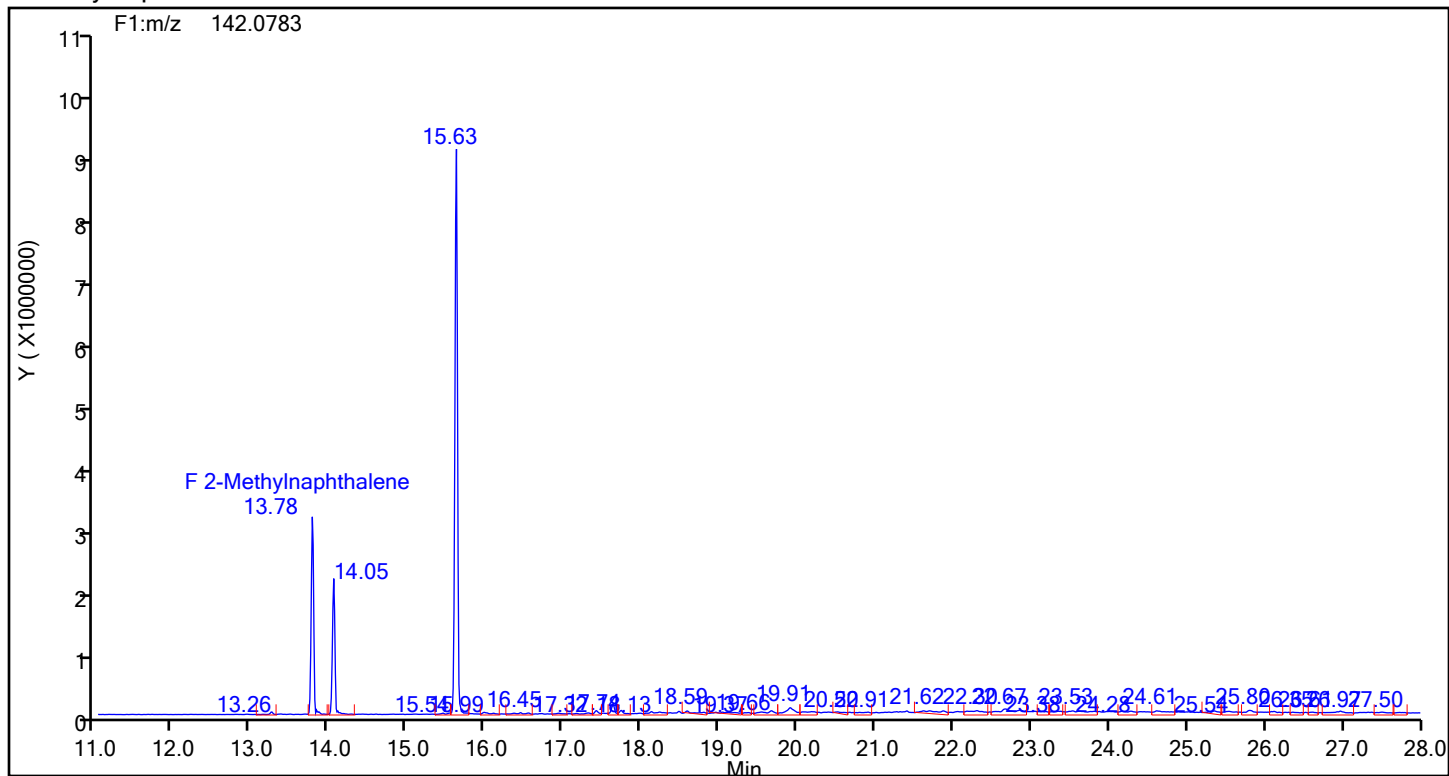




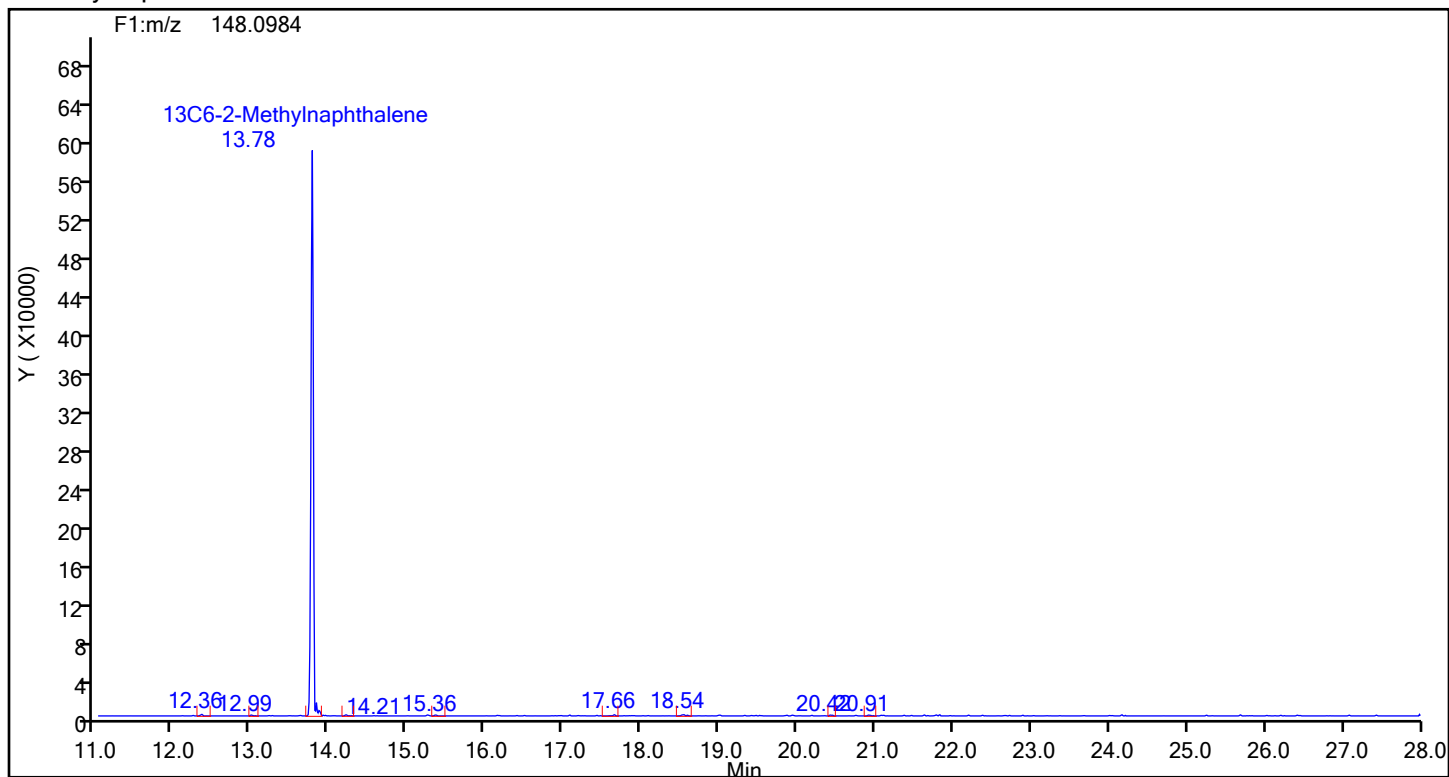
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



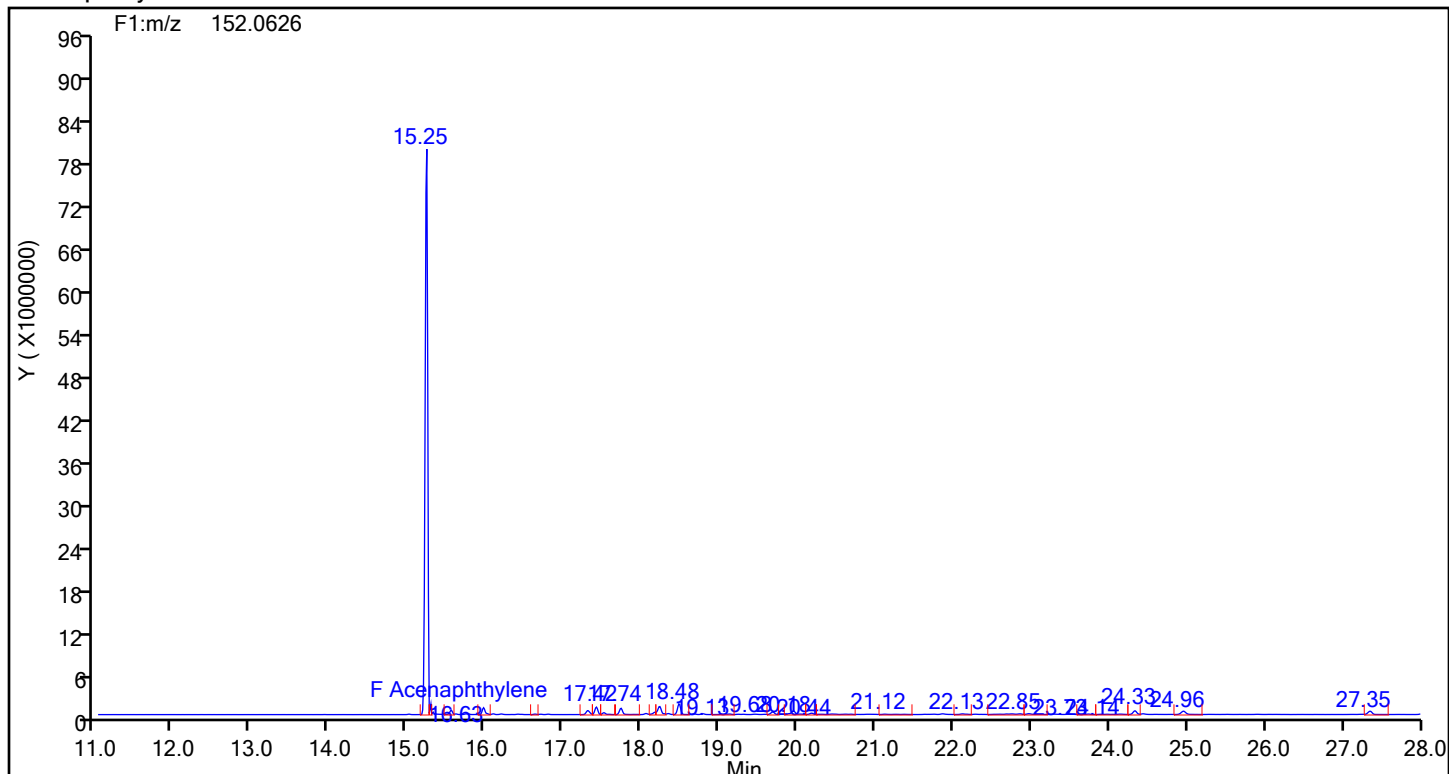
## 2-Methylnaphthalene Standards



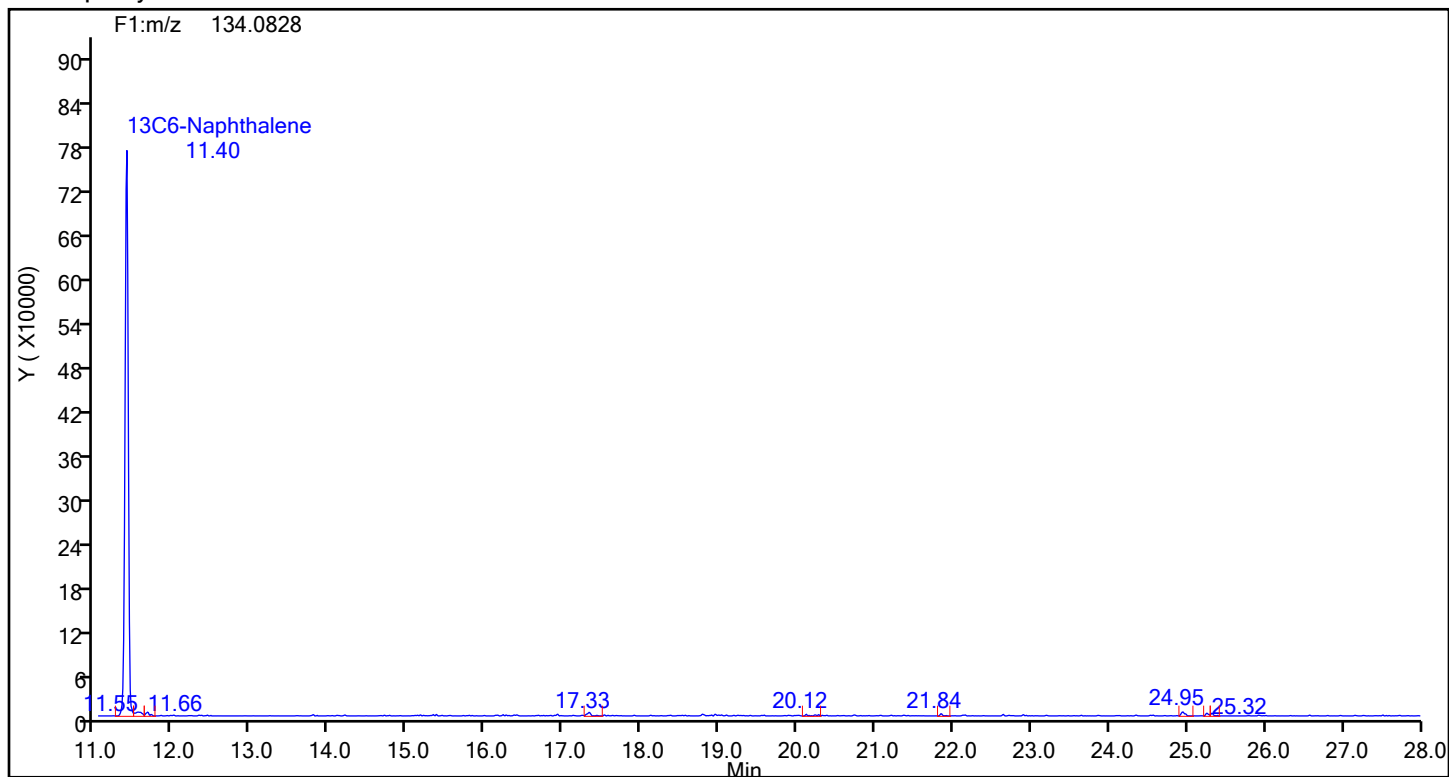
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



## Acenaphthylene Standards



## Eurofins Knoxville

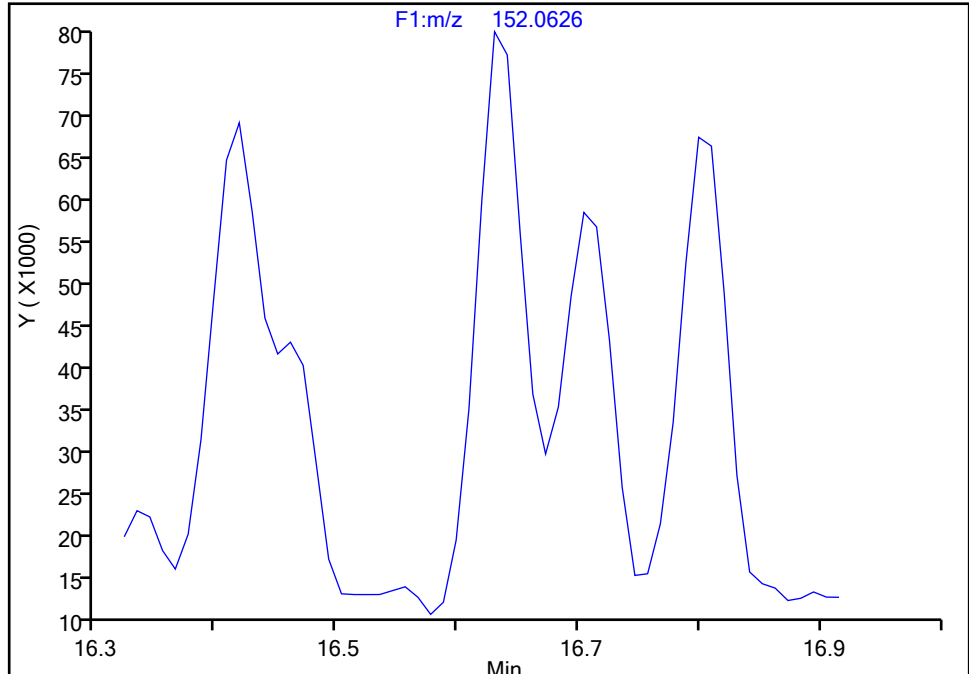
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Injection Date: 16-Jul-2024 20:07:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-2-D Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**Acenaphthylene, CAS: 208-96-8**

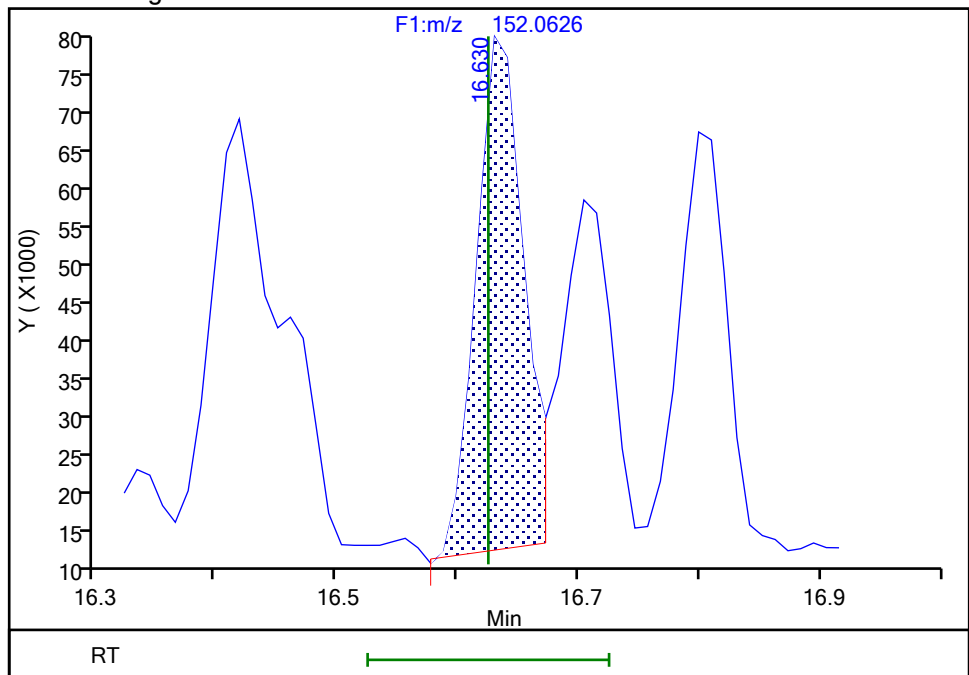
Signal: 1

Not Detected  
Expected RT: 16.62

## Processing Integration Results



## Manual Integration Results



Reviewer: Q9DB, 16-Jul-2024 21:12:18 -04:00:00 (UTC)

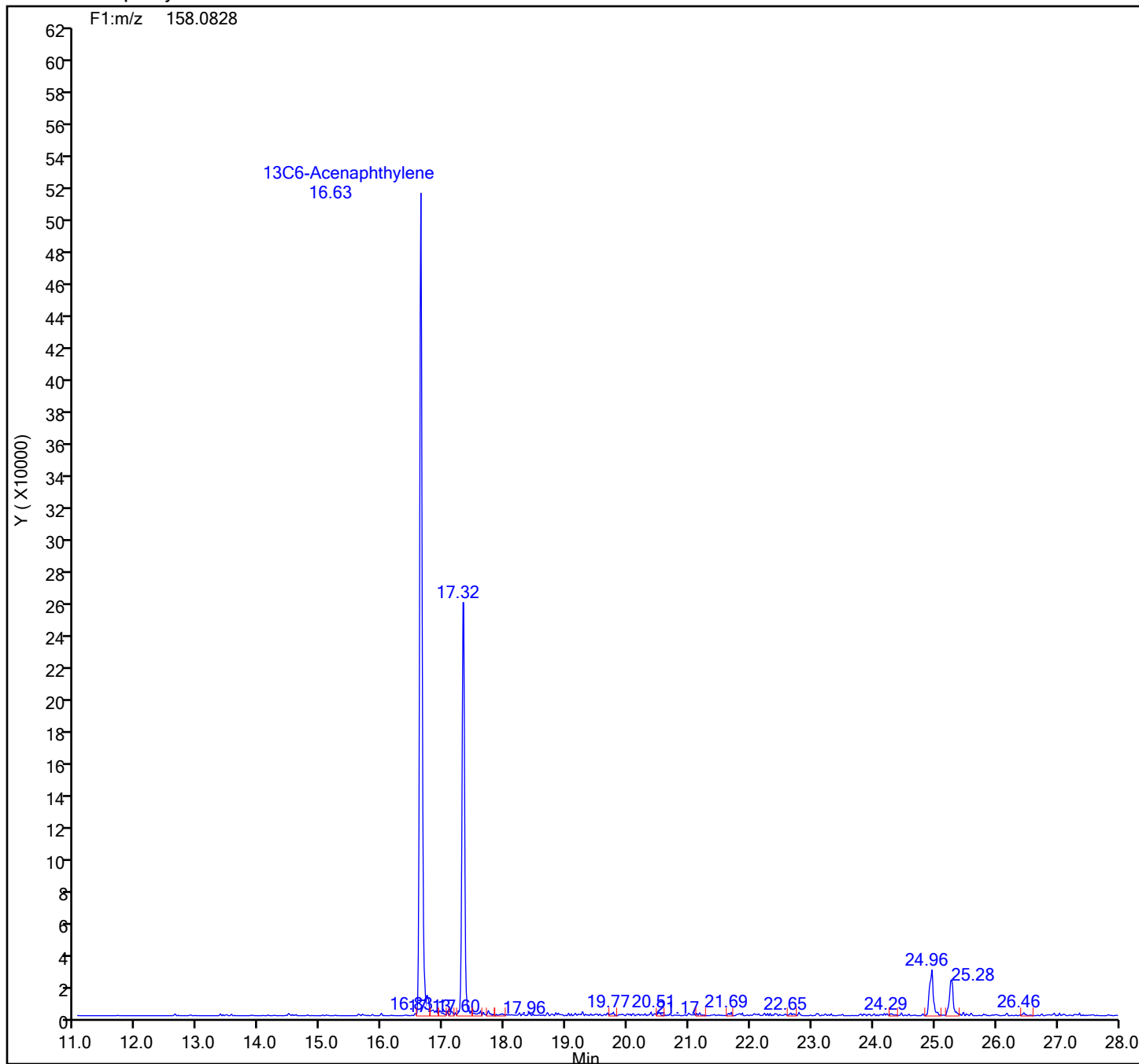
Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

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Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

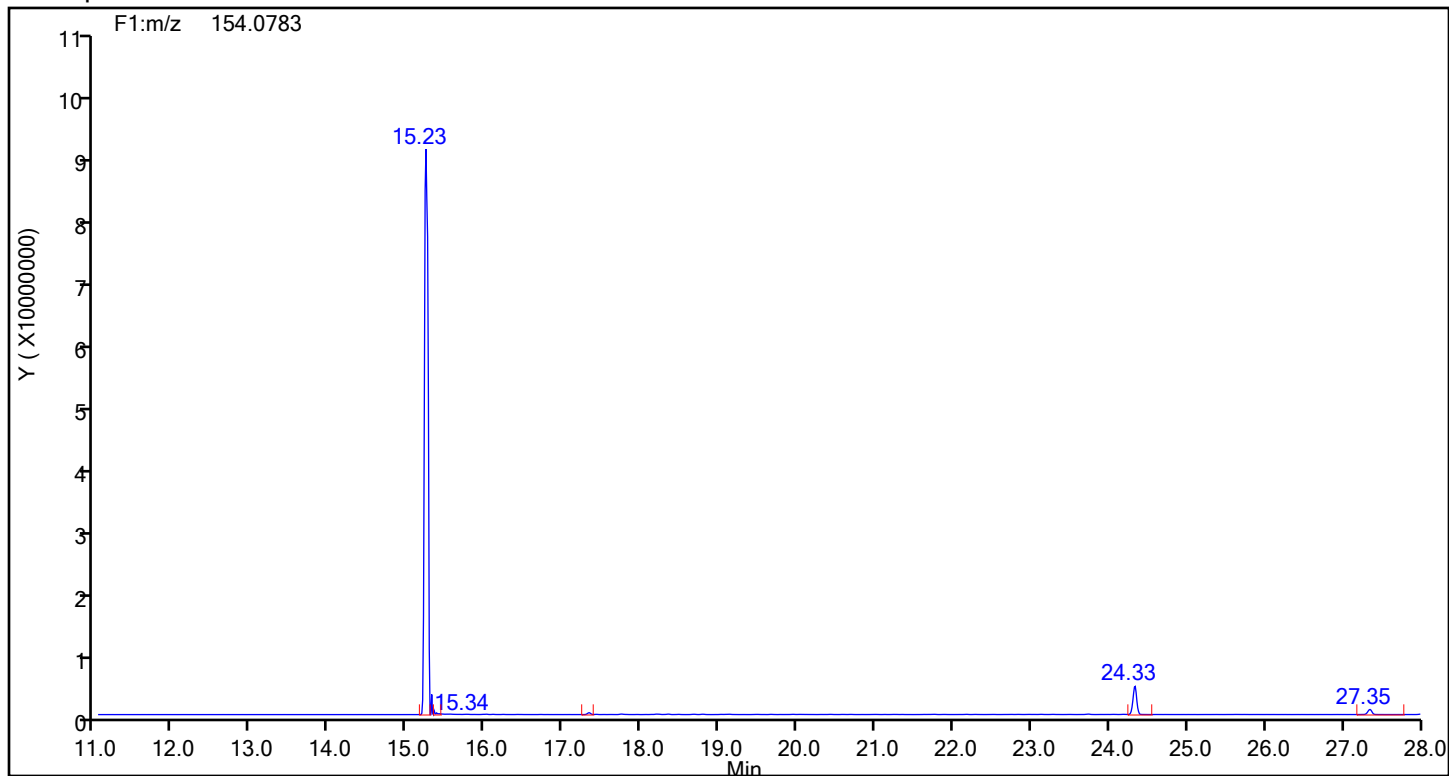
## 13C6-Acenaphthylene Standards



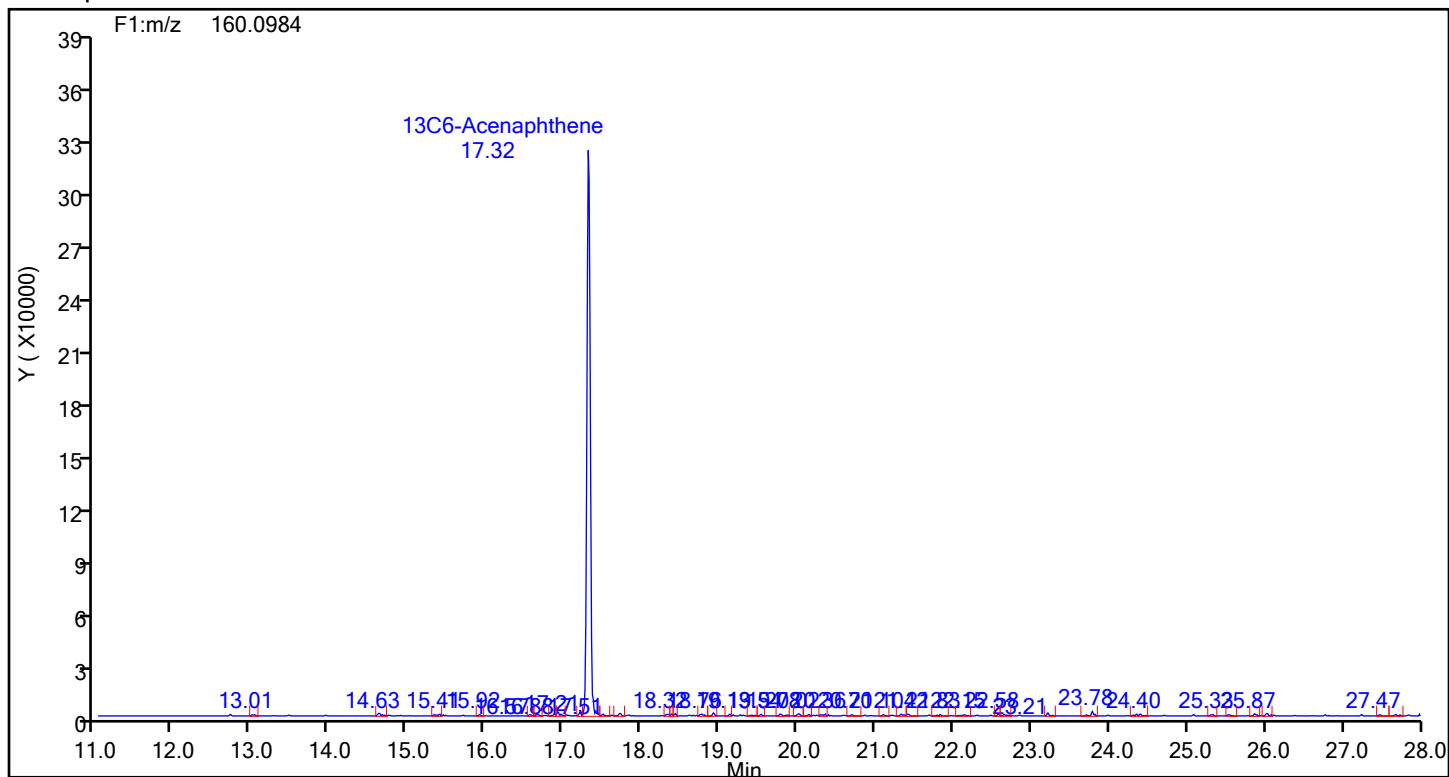
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



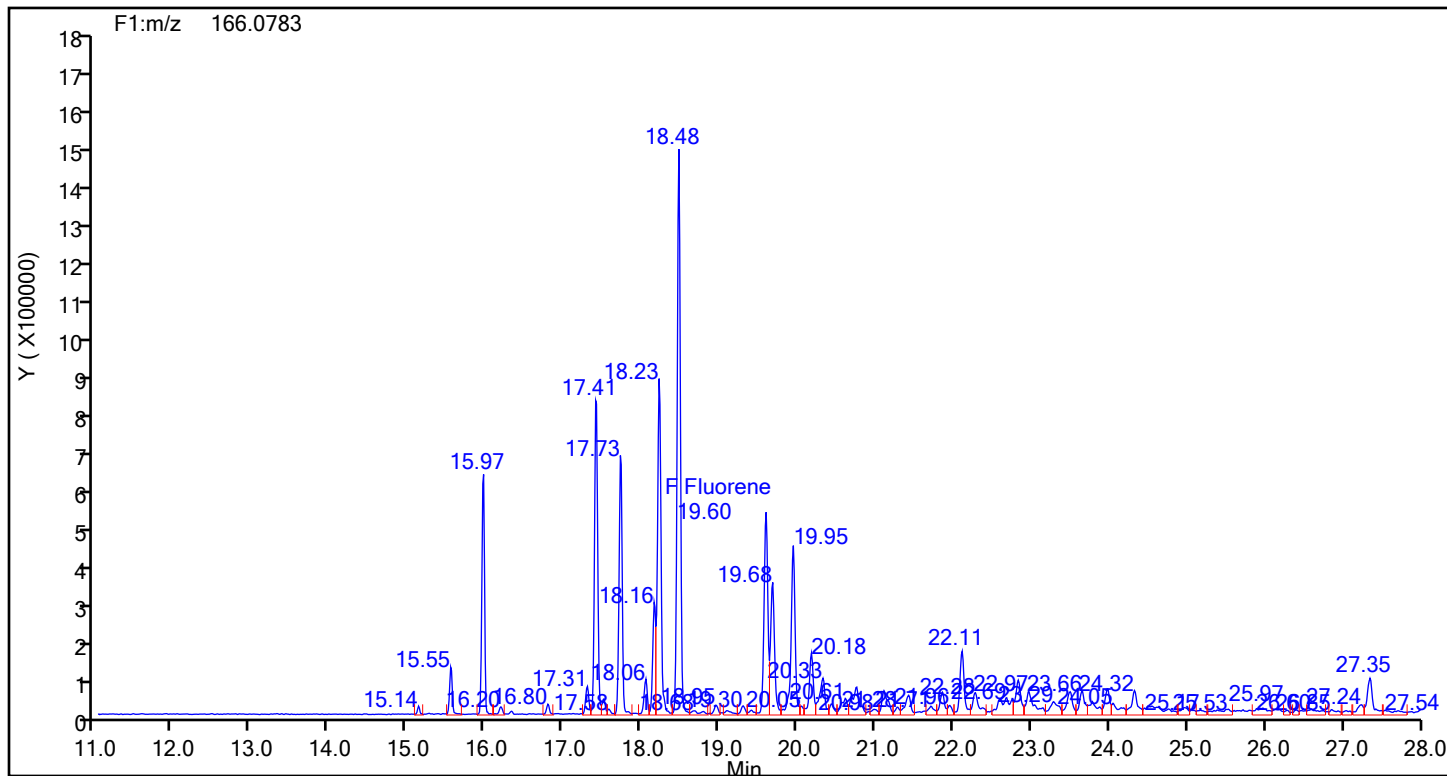
## Acenaphthene Standards



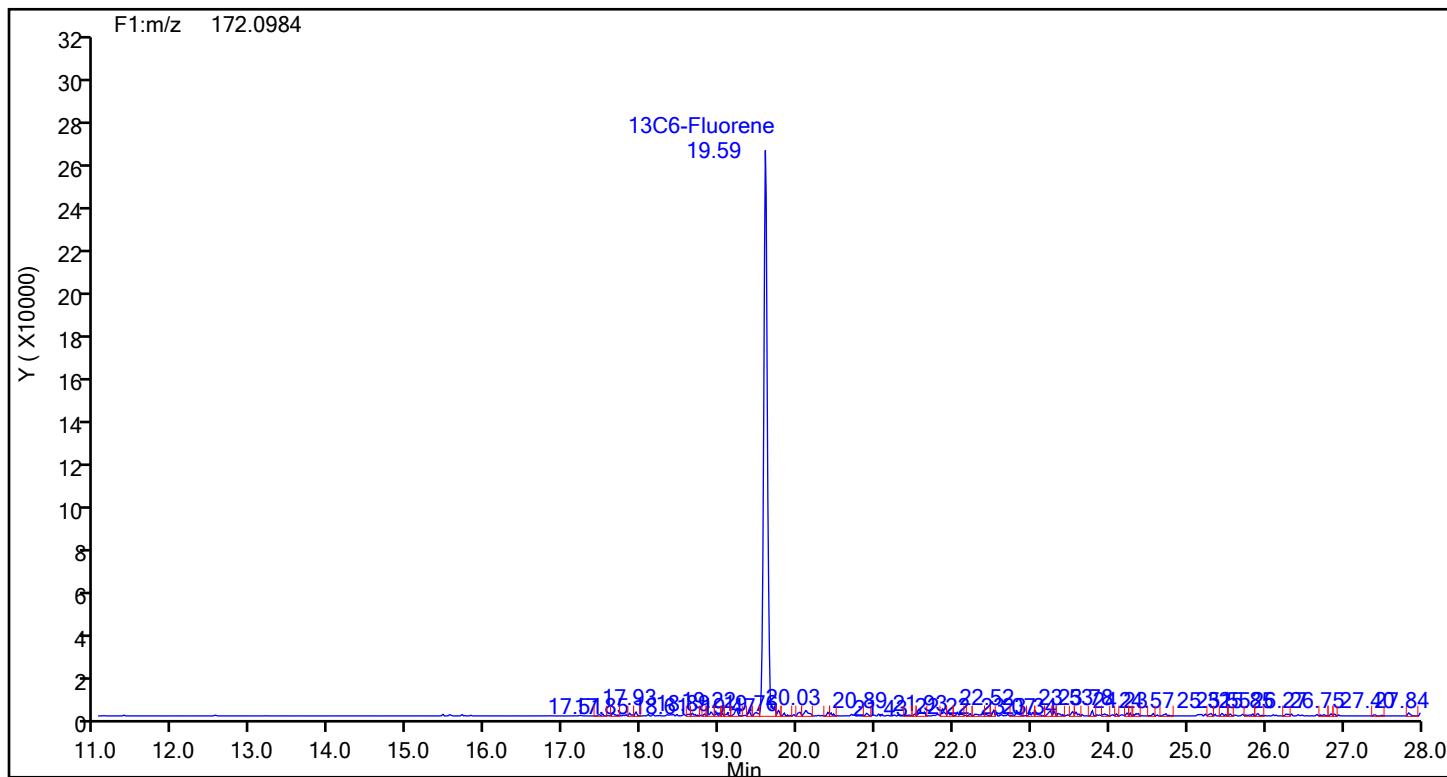
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



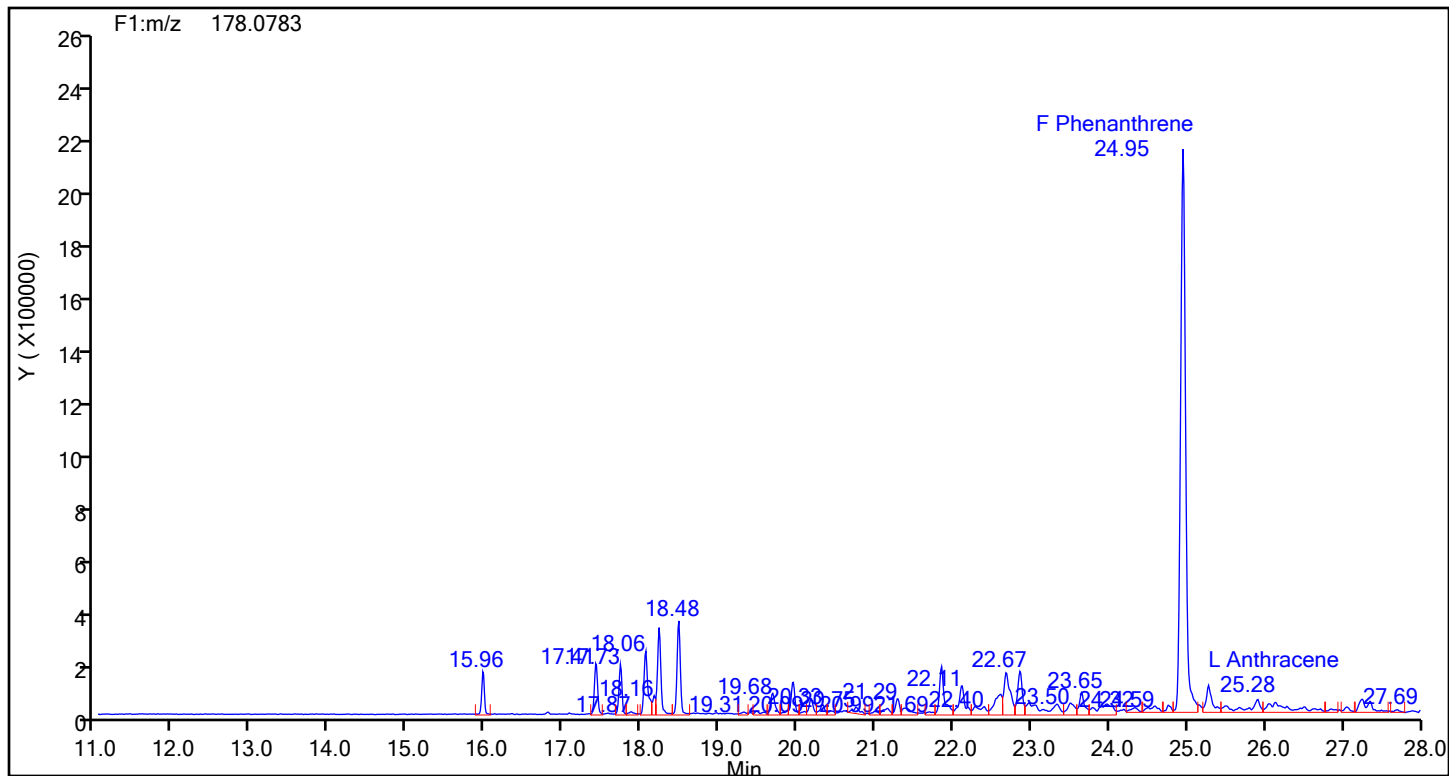
## Fluorene Standards



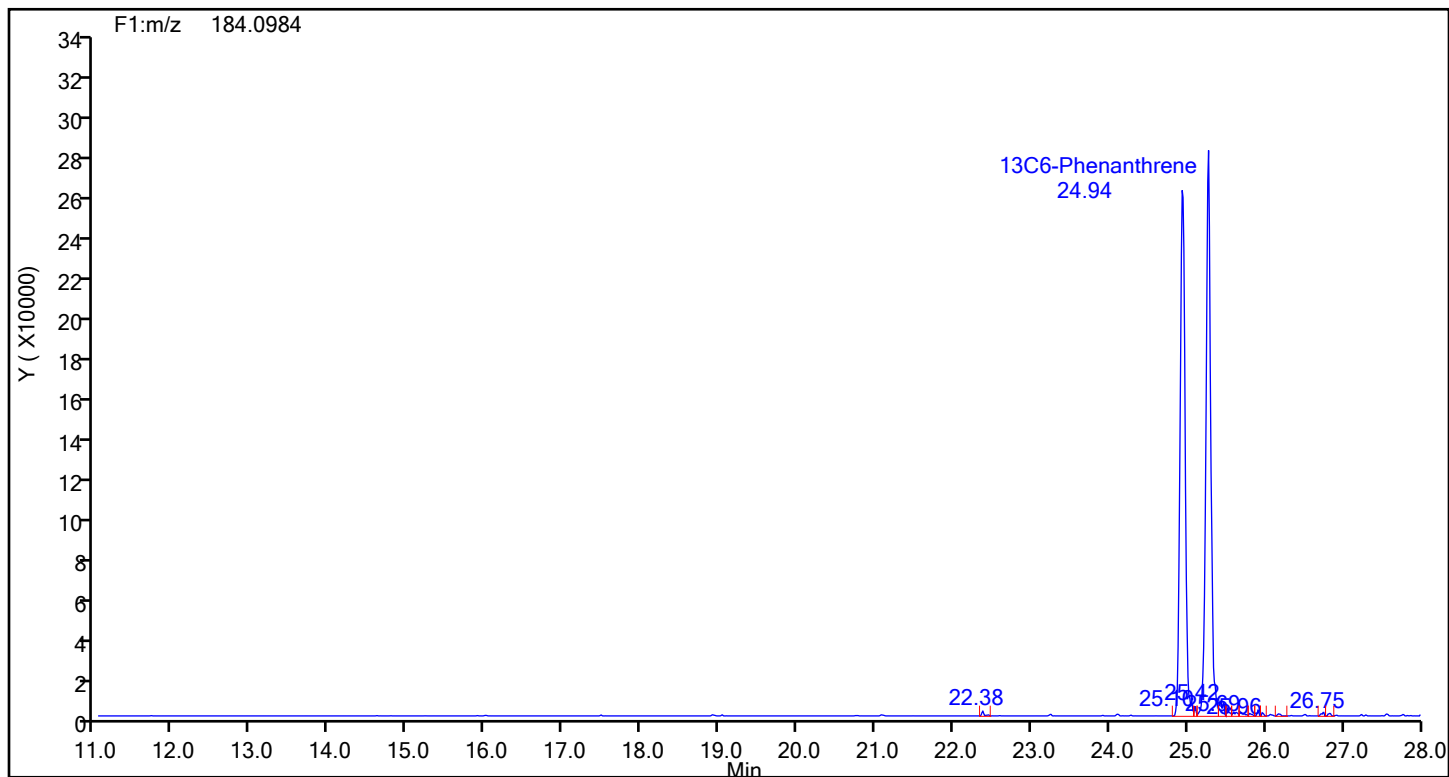
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Phenanthrene

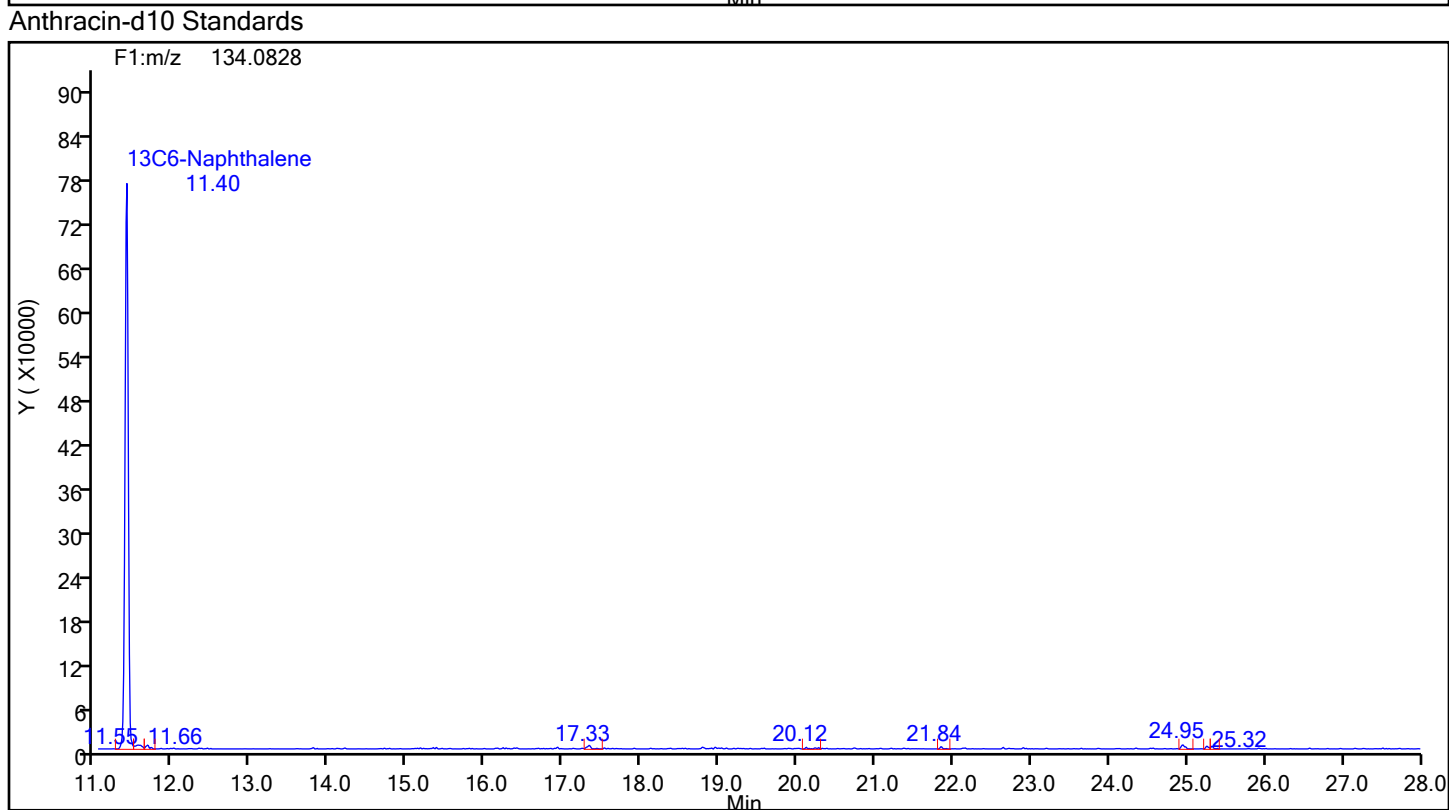
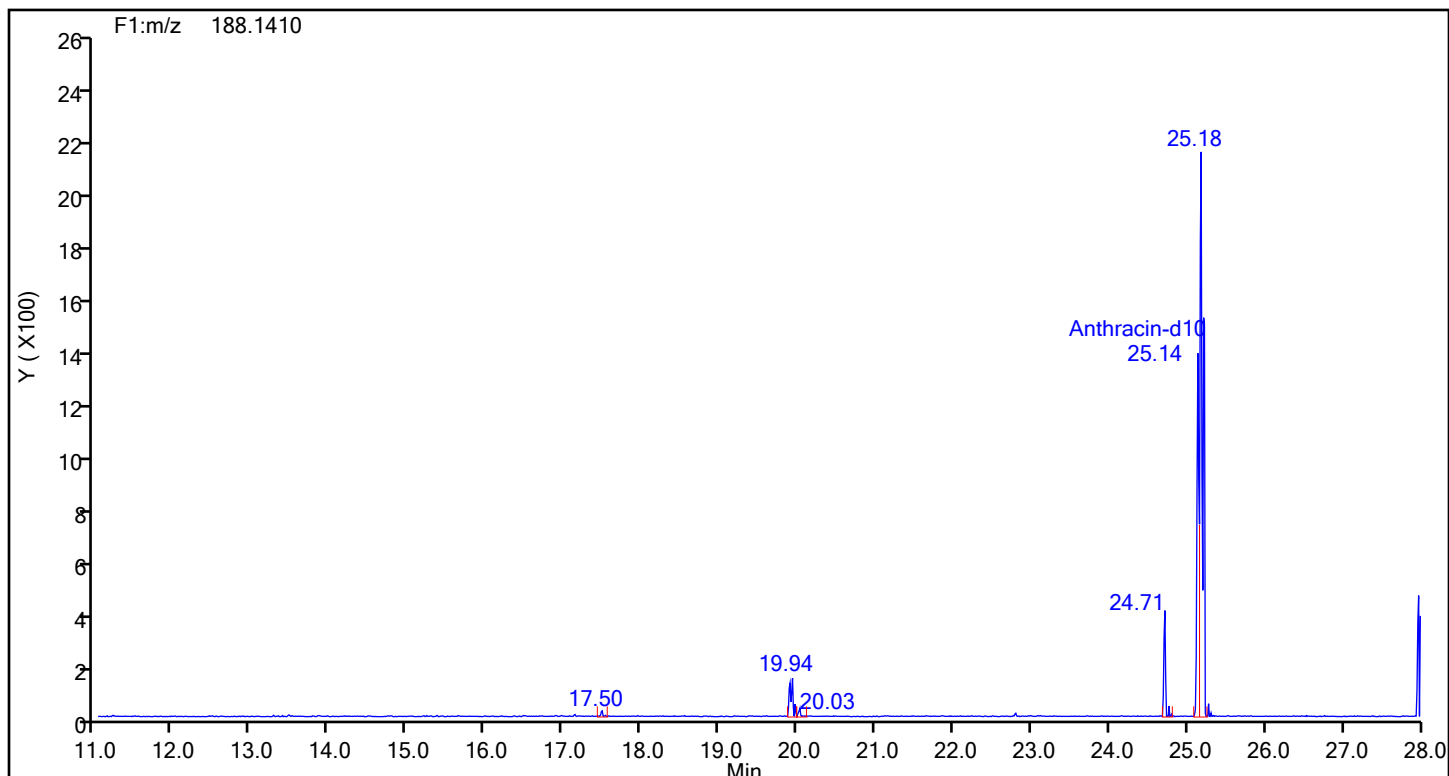


## Phenanthrene Standards



## Eurofins Knoxville

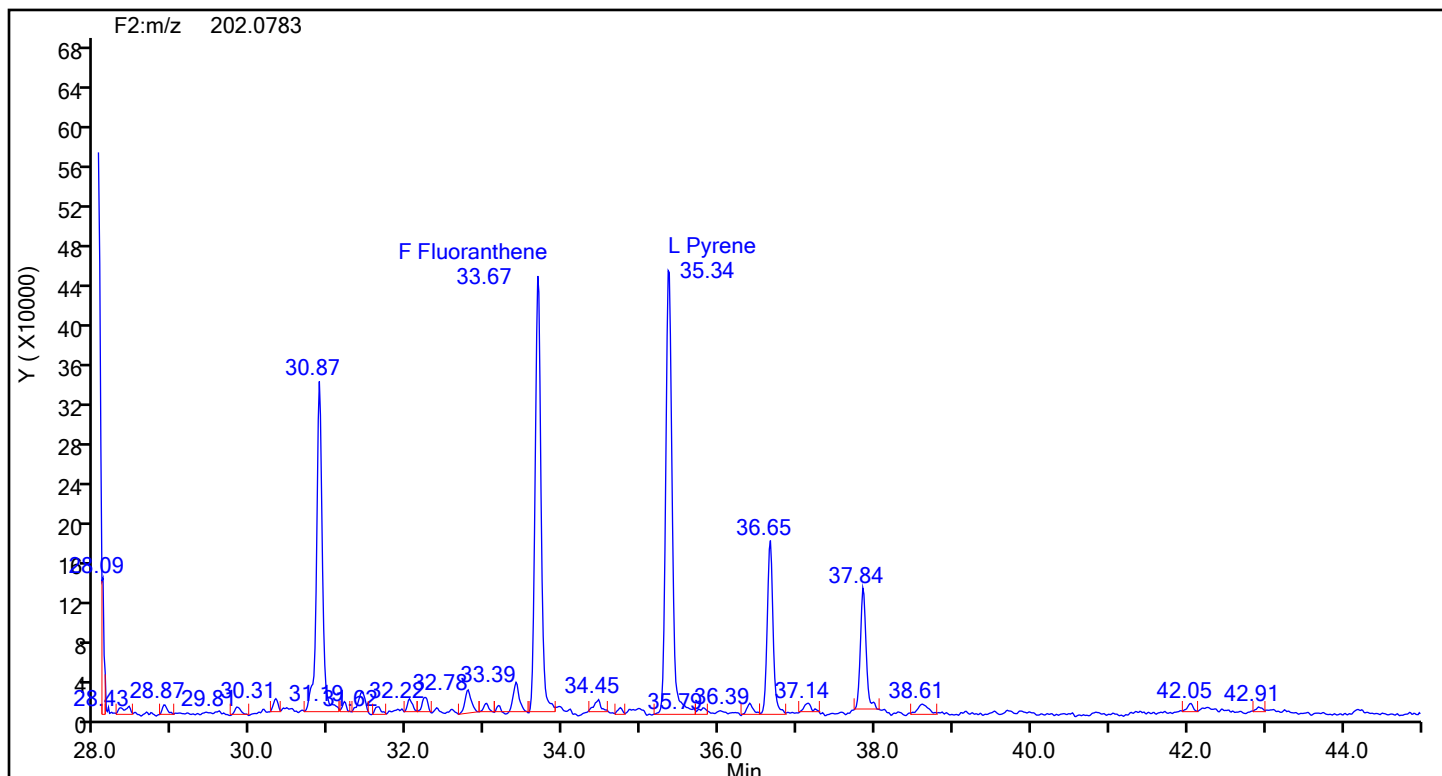
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10



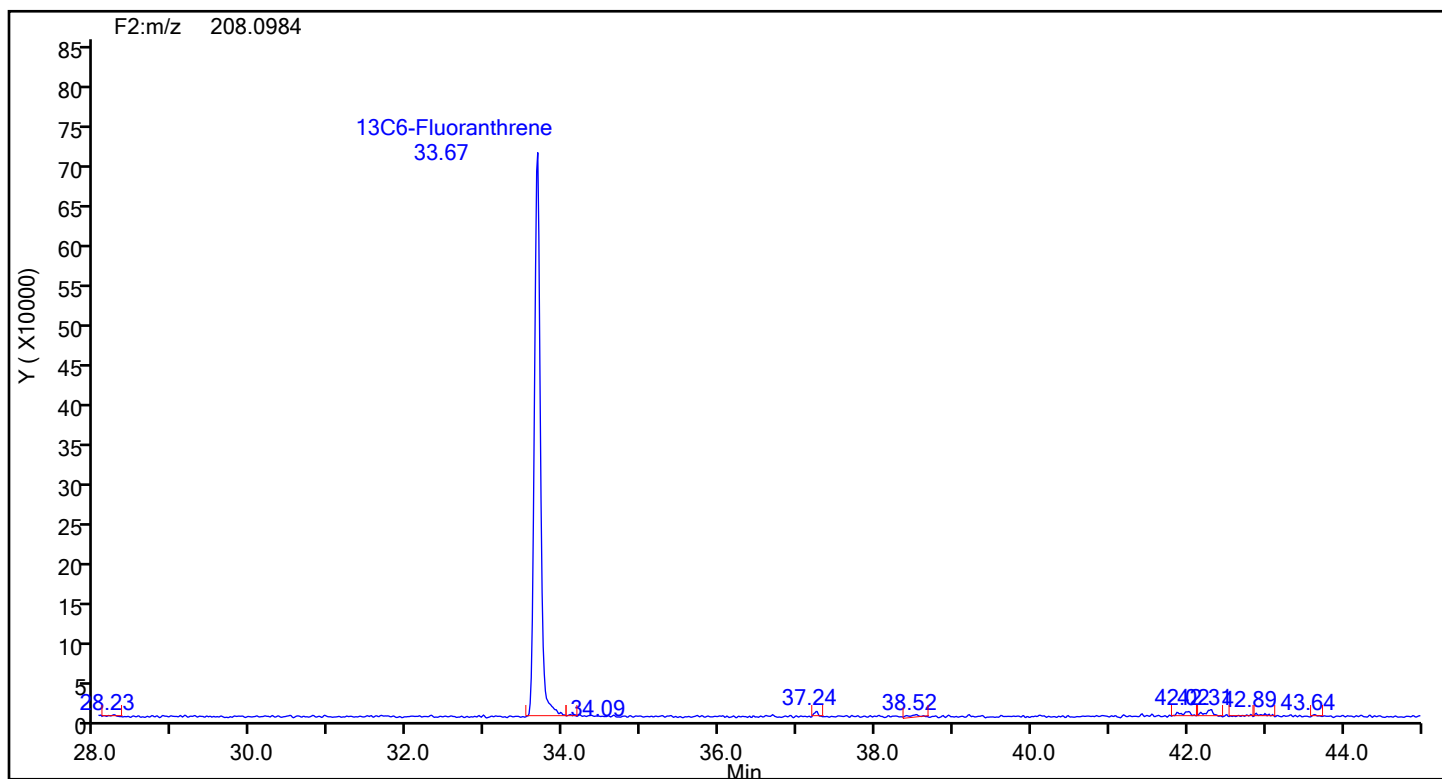


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



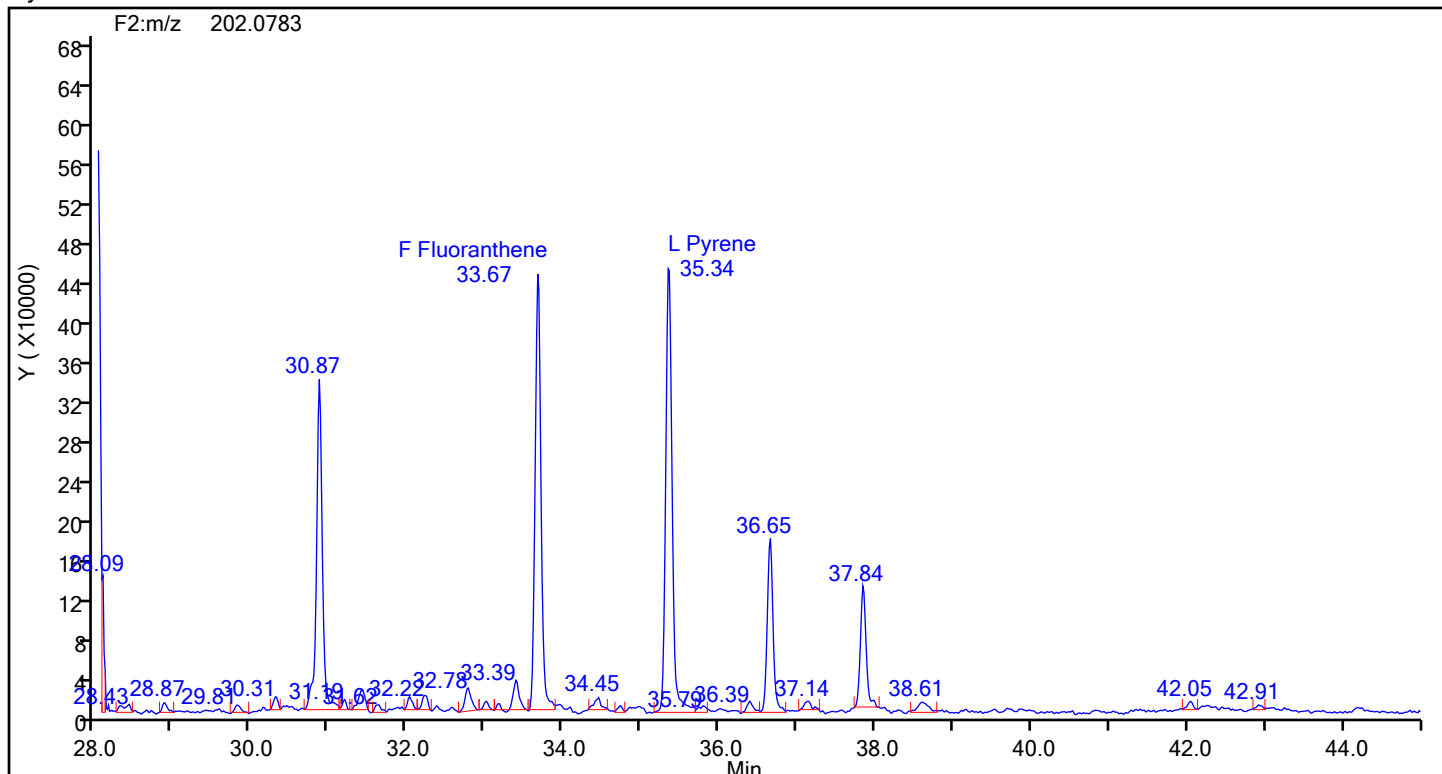
## Fluoranthene Standards



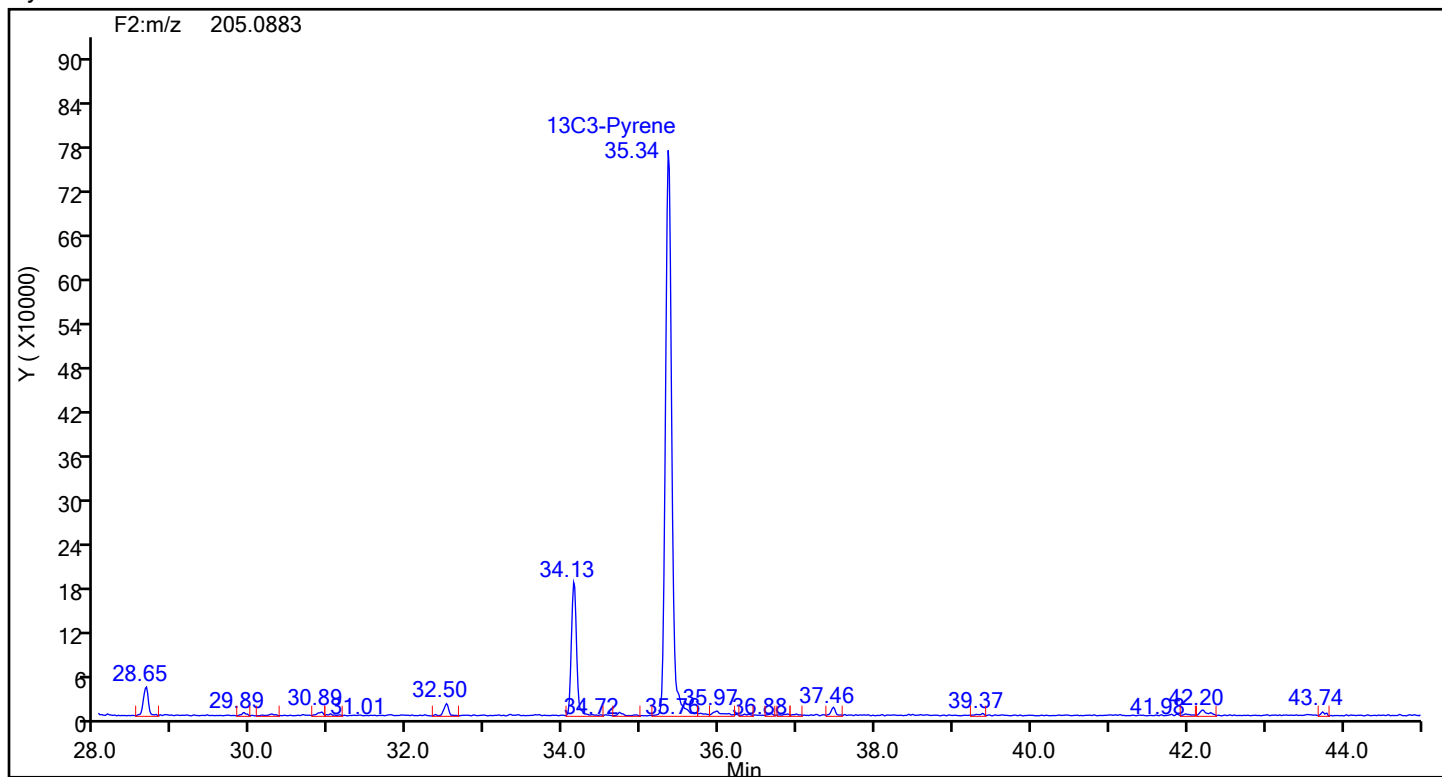
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



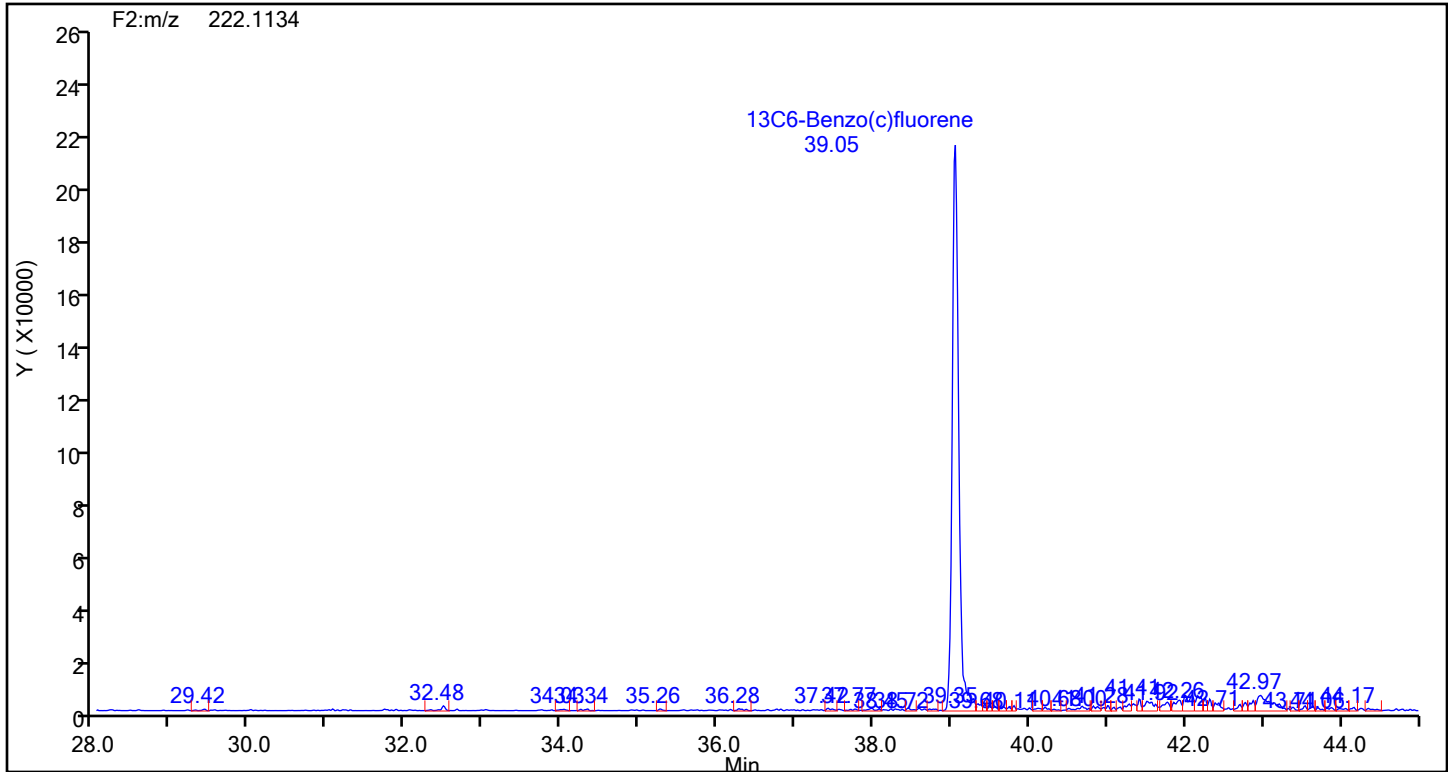
## Pyrene Standards



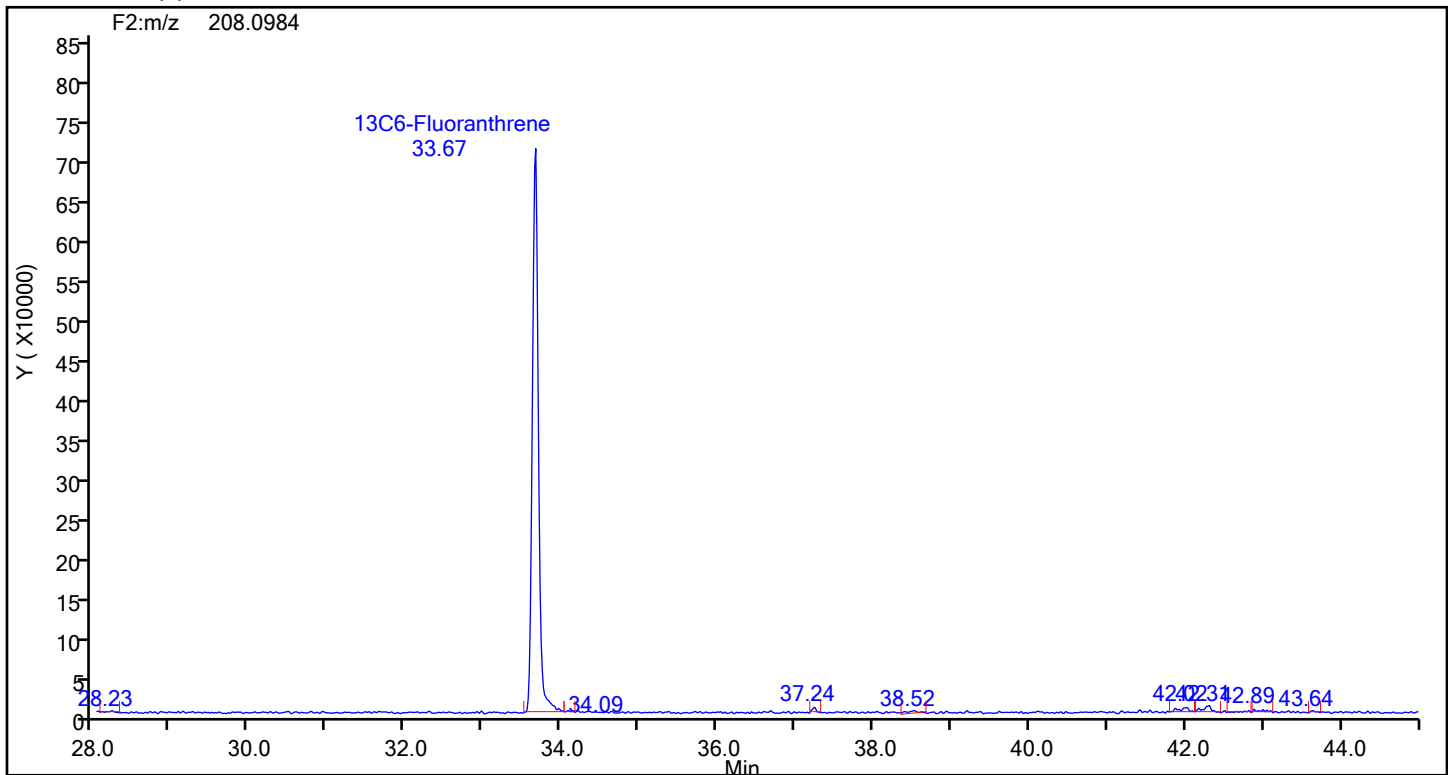
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



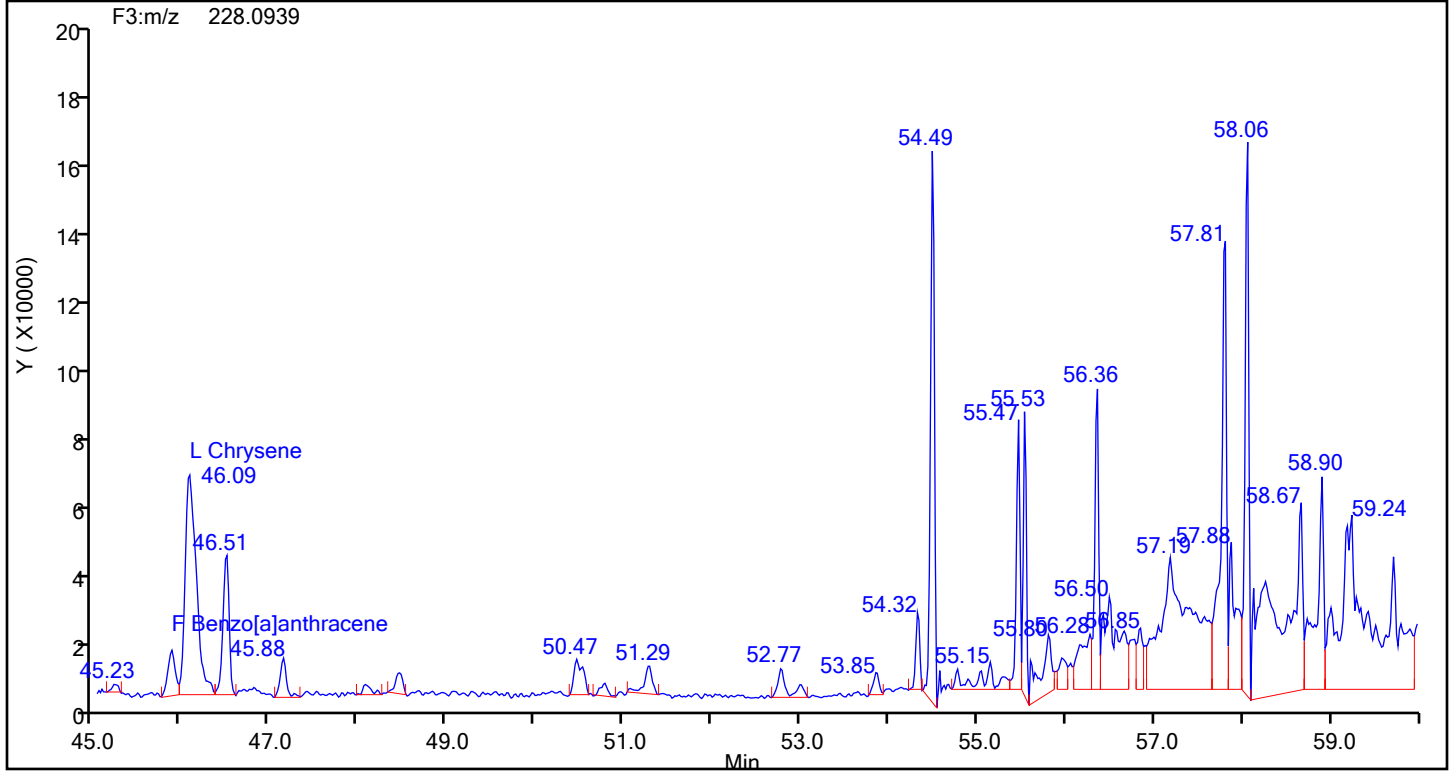
## 13C6-Benzo(c)fluorene Standards



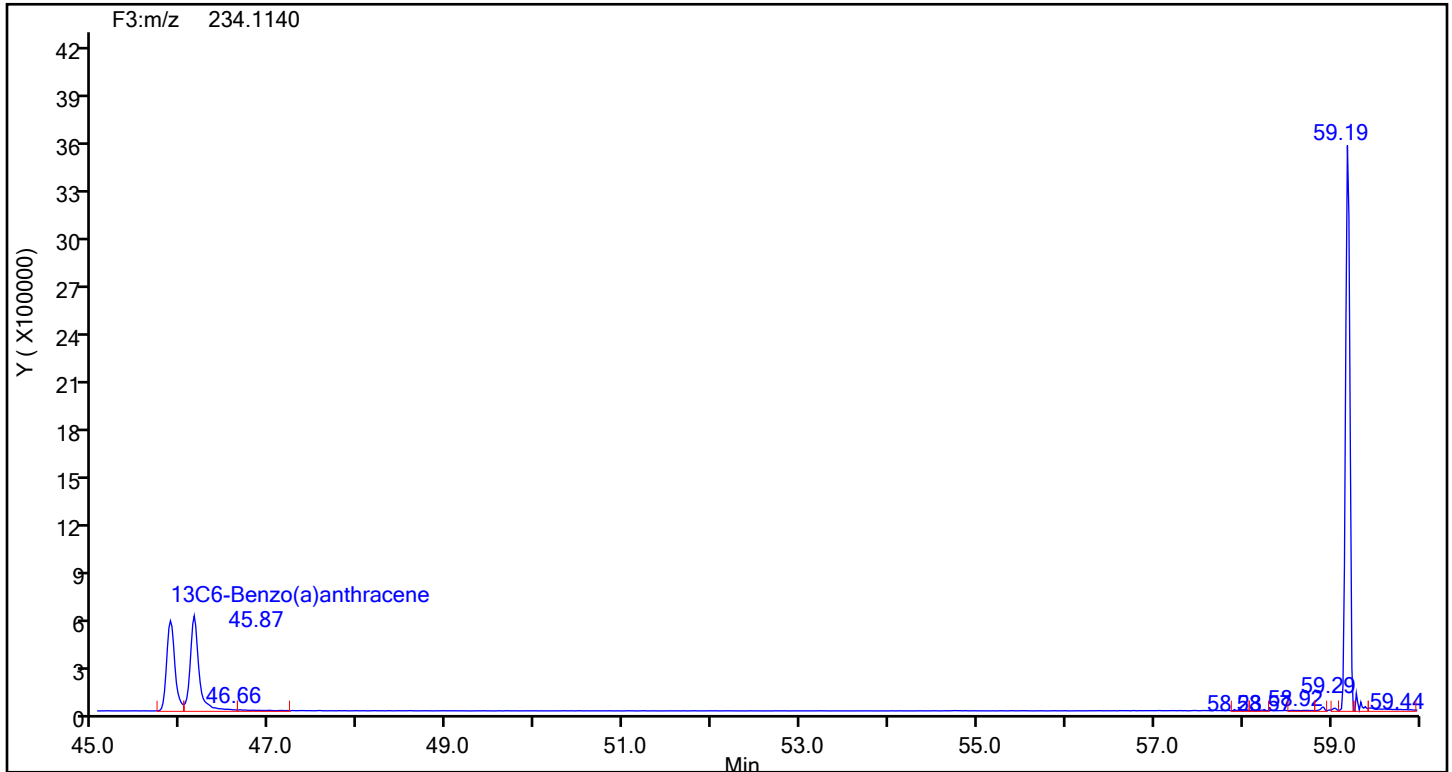
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



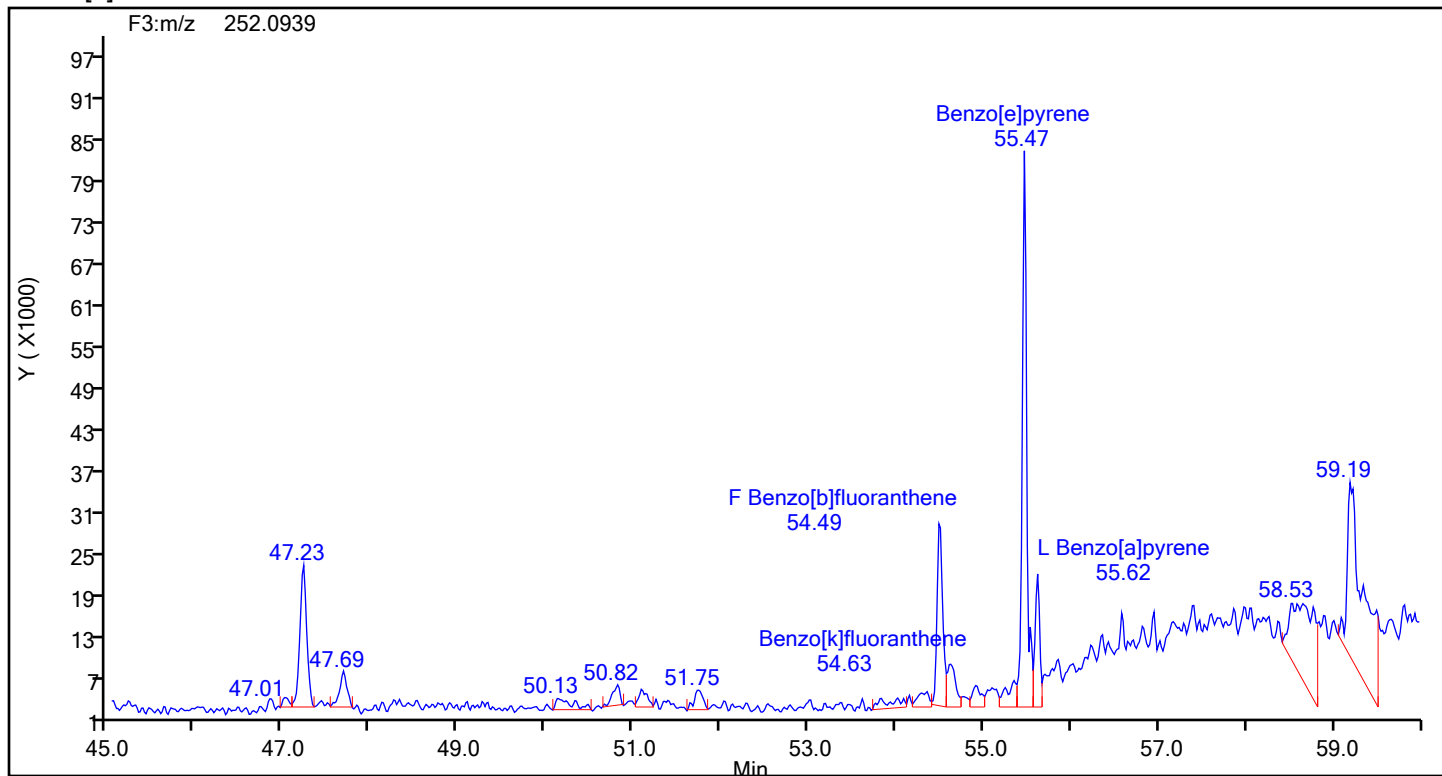
## Benzo[a]anthracene Standards



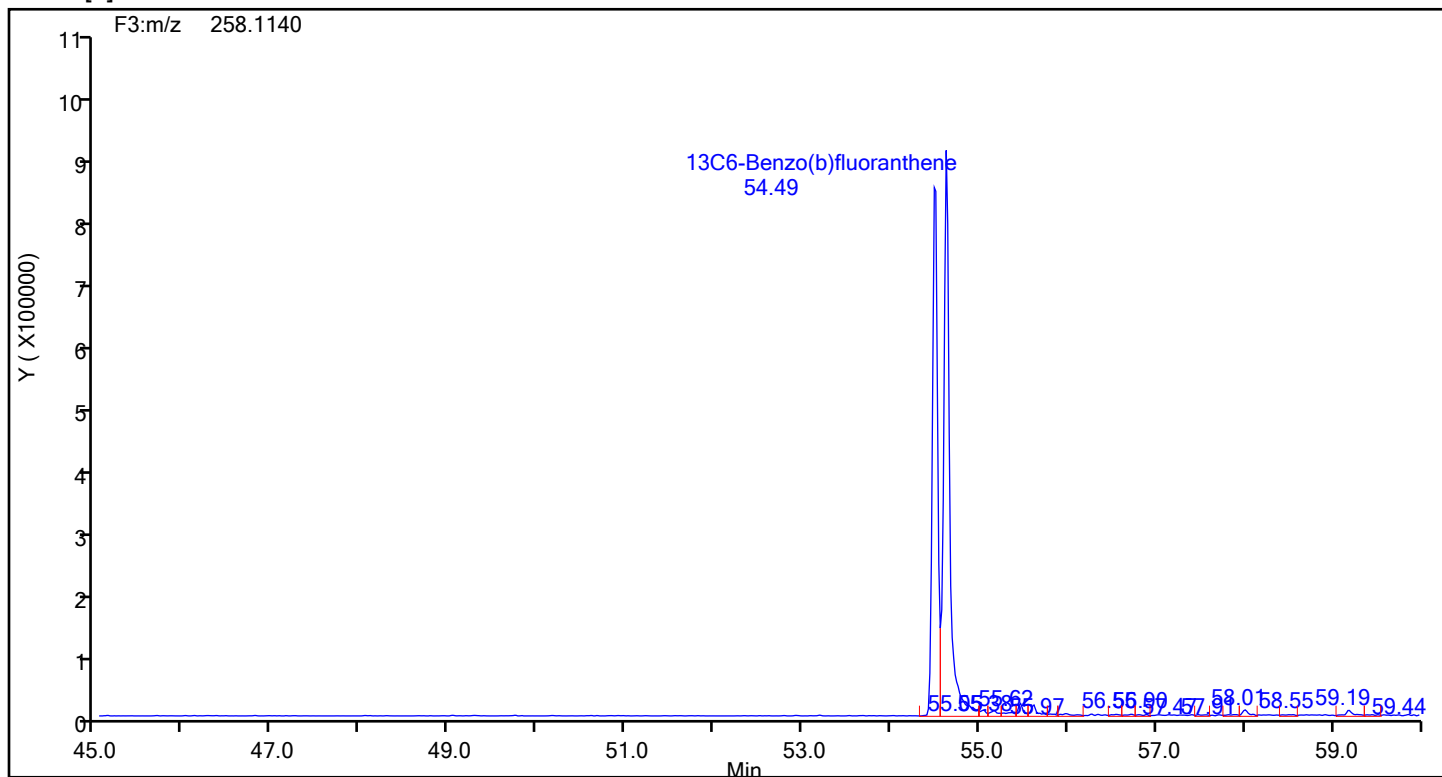
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards



## Eurofins Knoxville

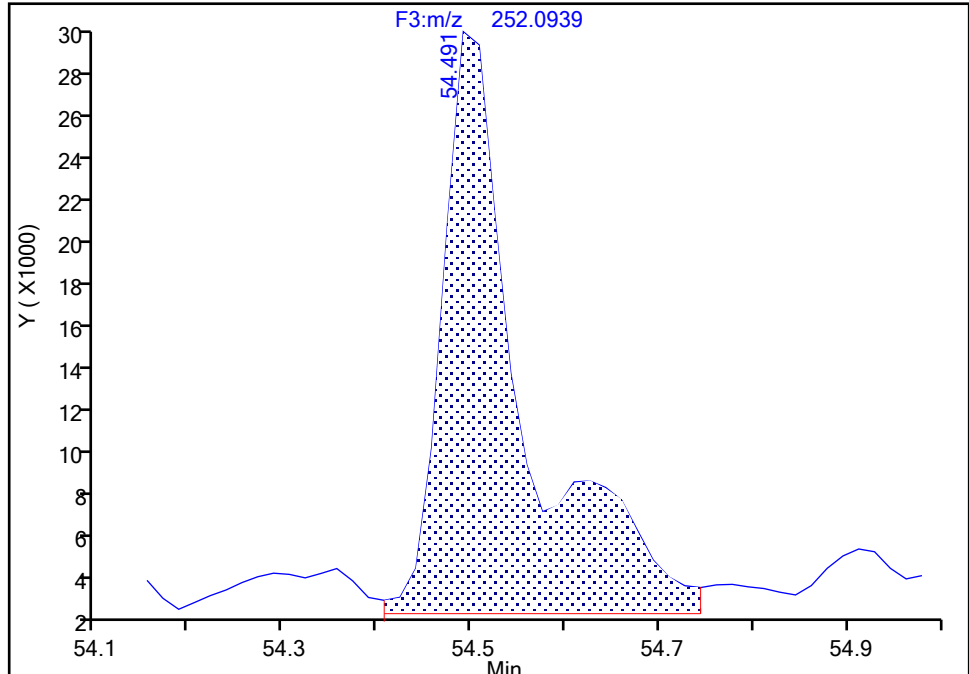
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Injection Date: 16-Jul-2024 20:07:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-2-D Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

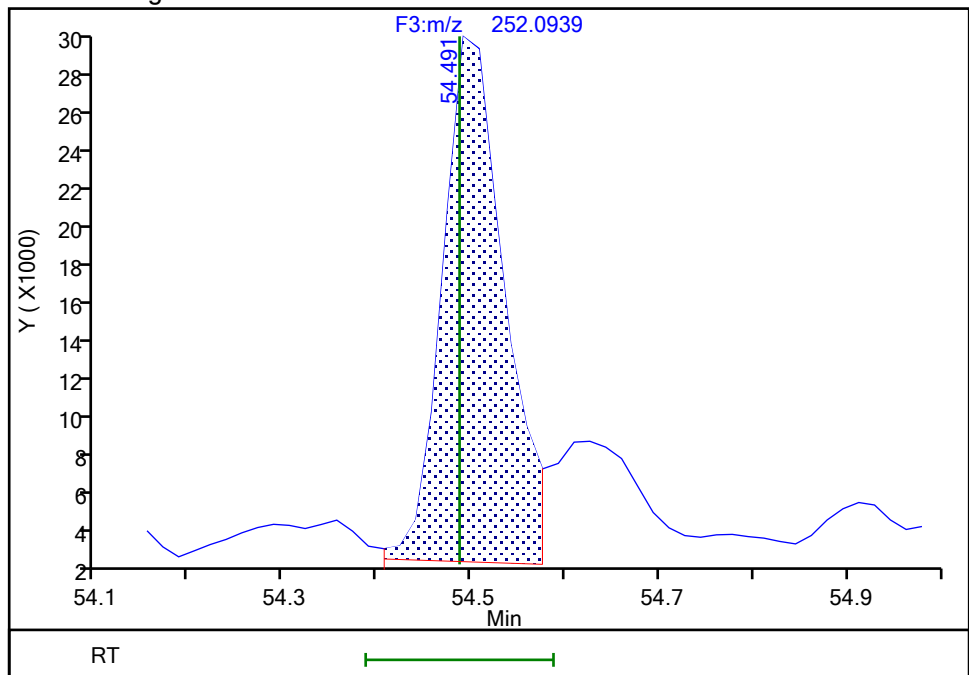
RT: 54.49  
Area: 160372  
Amount: 0.410774  
Amount Units: pg/ul

## Processing Integration Results



RT: 54.49  
Area: 122707  
Amount: 0.314300  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 16-Jul-2024 21:13:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

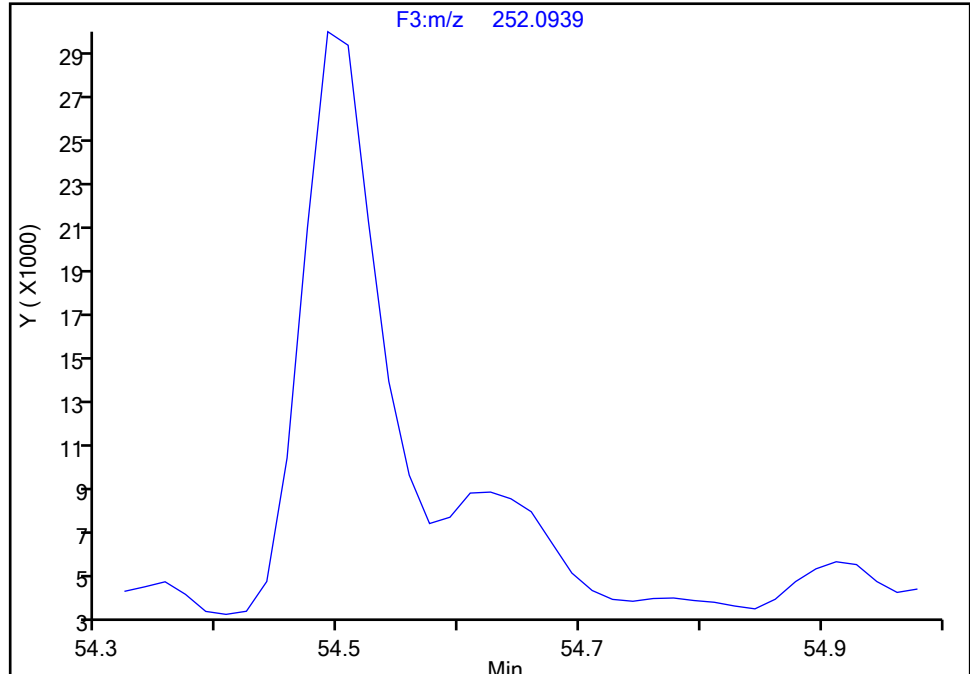
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-2-D Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

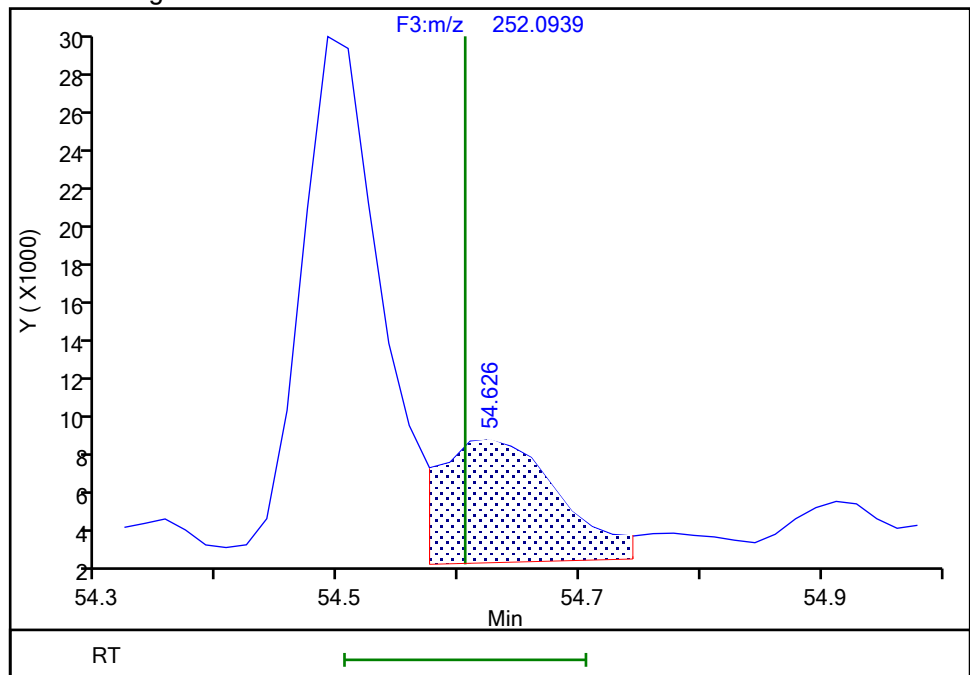
Not Detected  
Expected RT: 54.60

## Processing Integration Results



RT: 54.63  
Area: 44079  
Amount: 0.090989  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 16-Jul-2024 21:13:10 -04:00:00 (UTC)

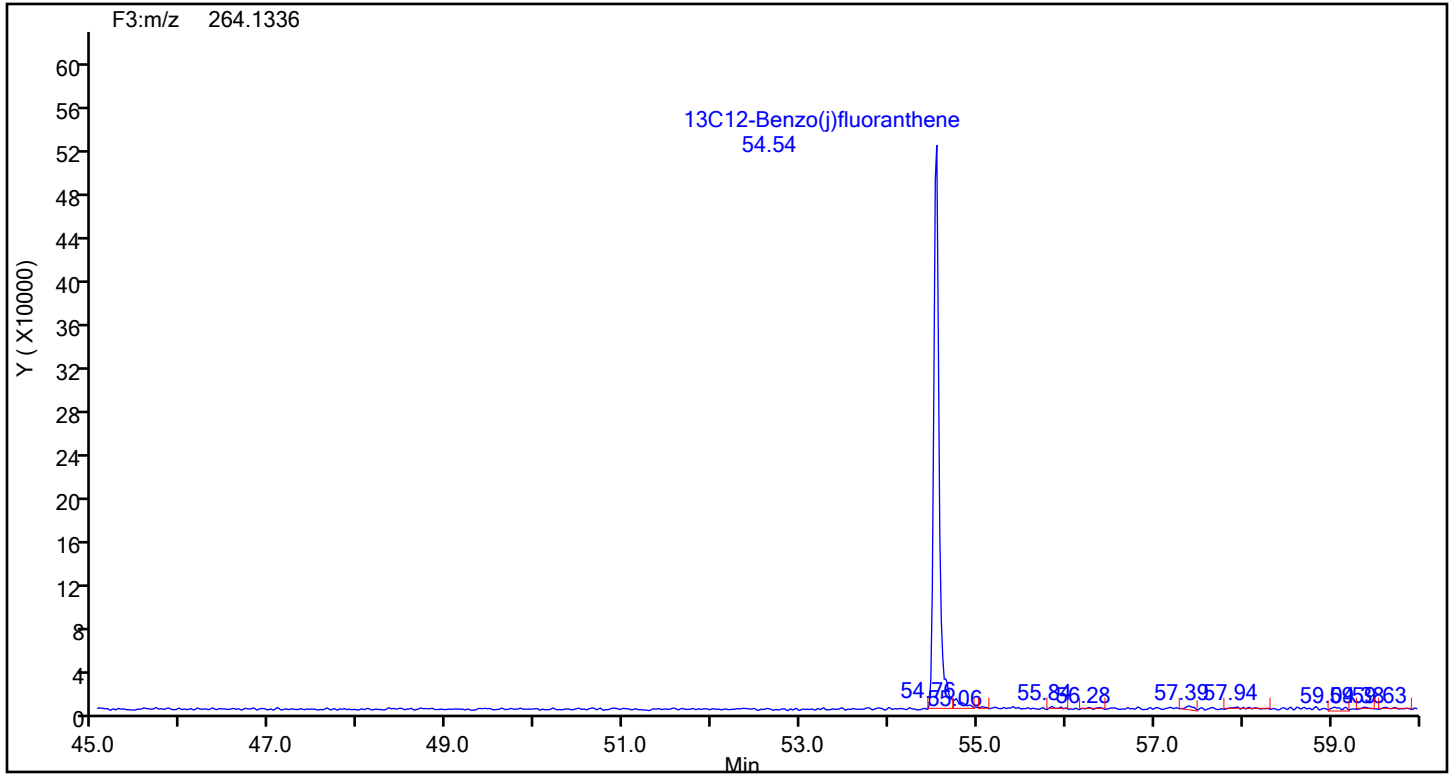
Audit Action: Manually Integrated

Audit Reason: Baseline

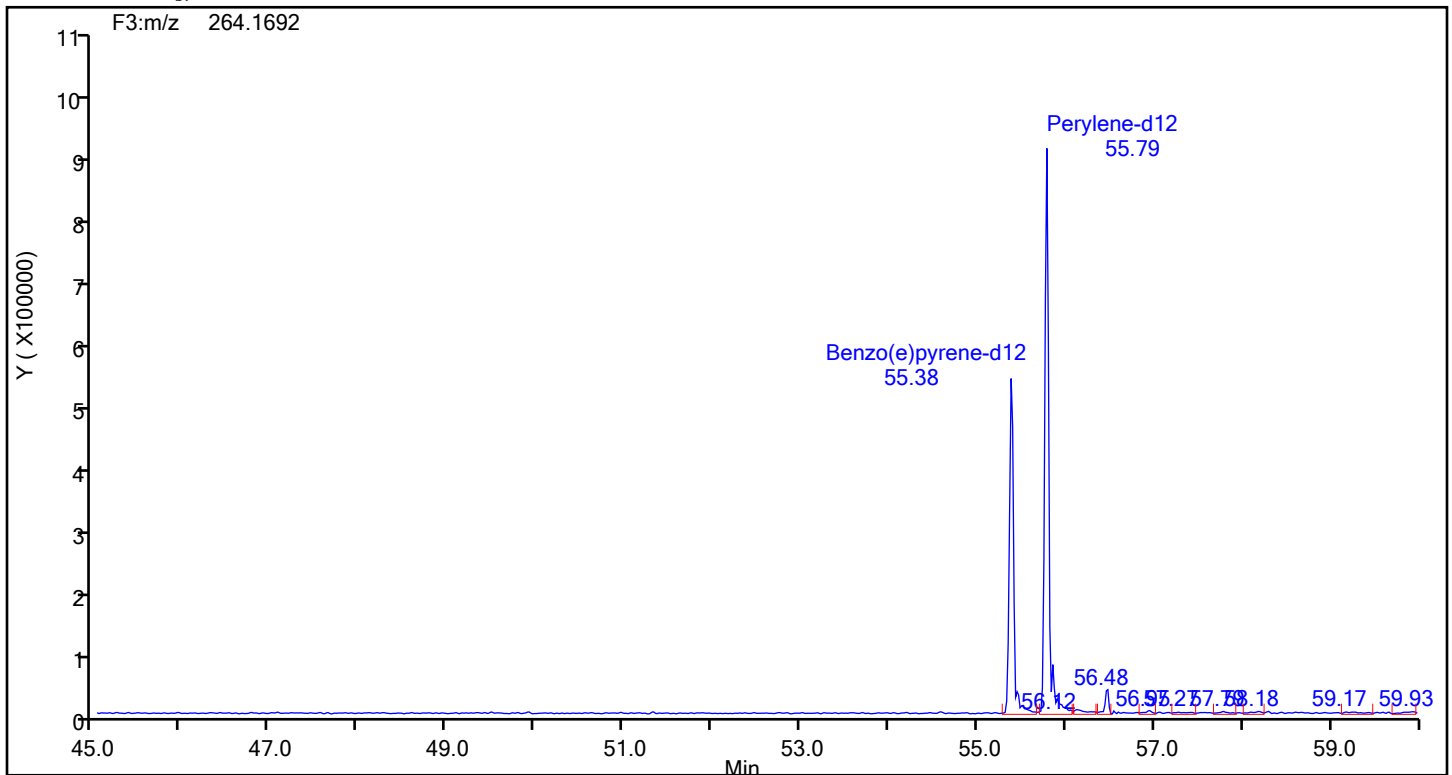
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



## 13C12-Benzo(j)fluoranthene Standards

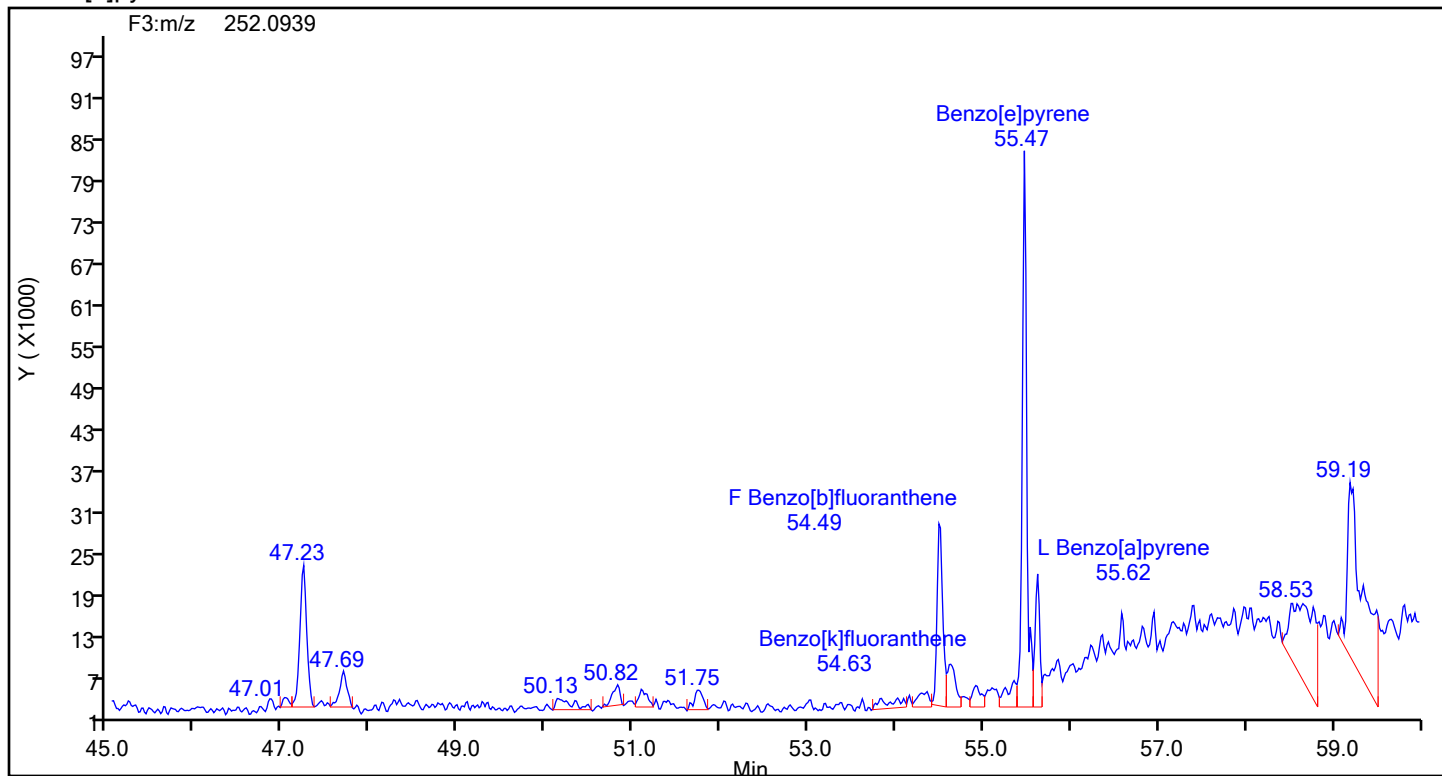




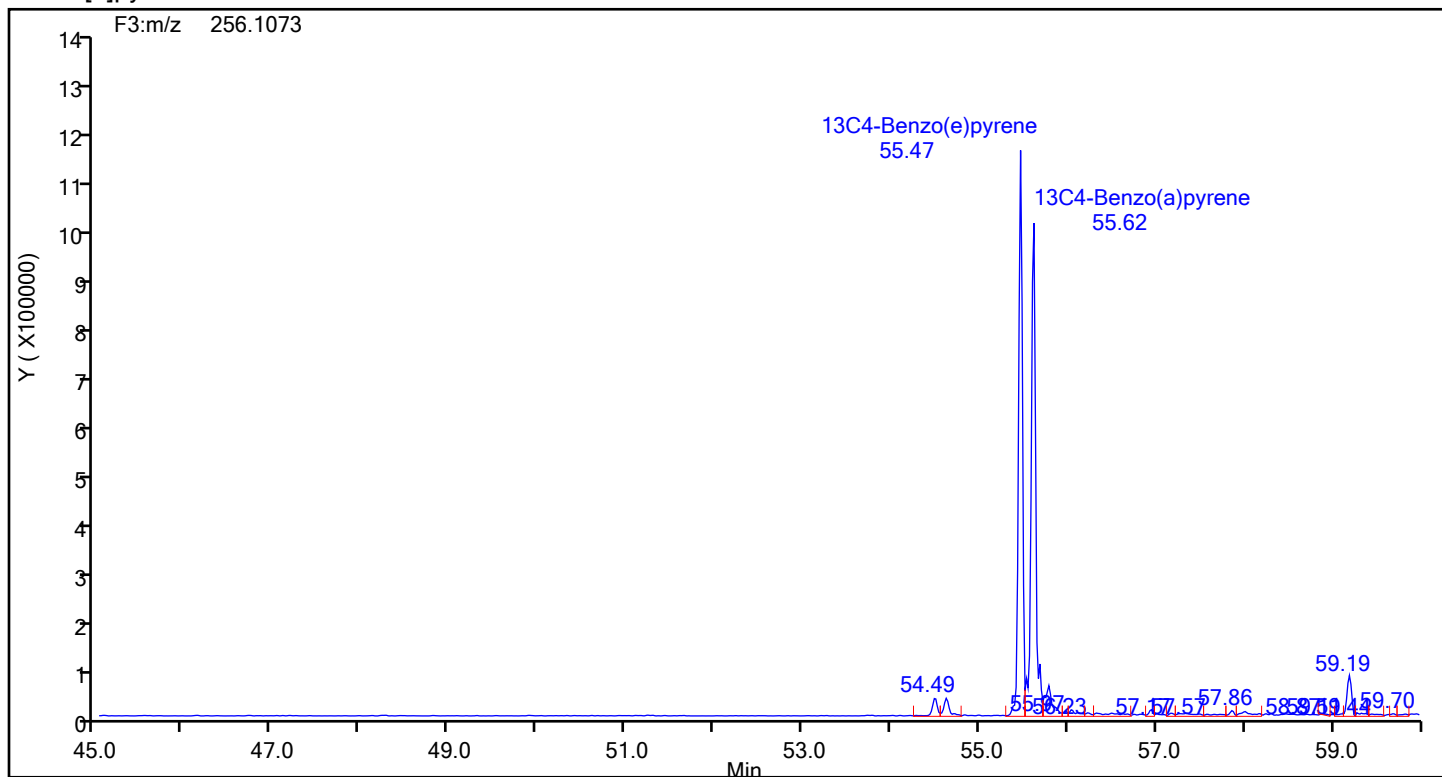
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene

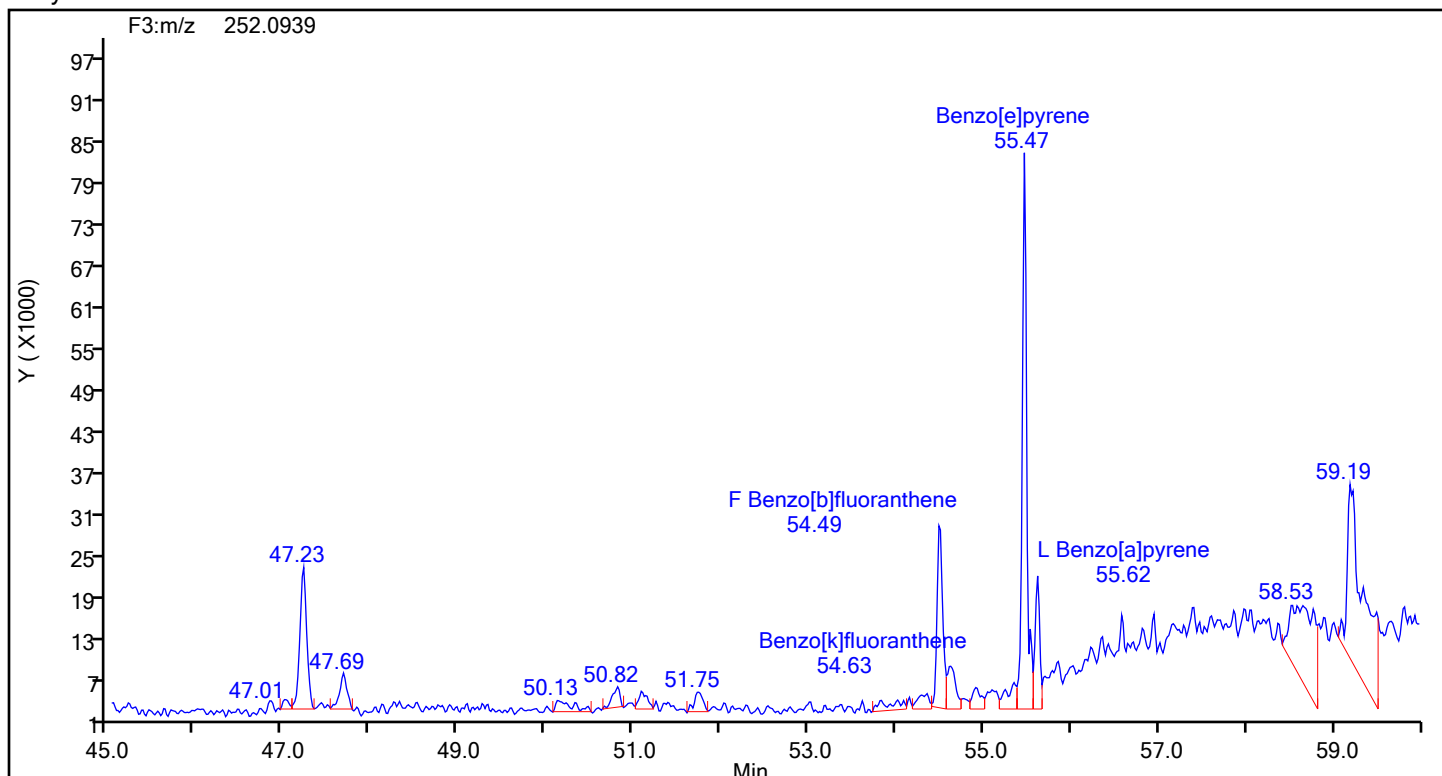


## Benzo[e]pyrene Standards

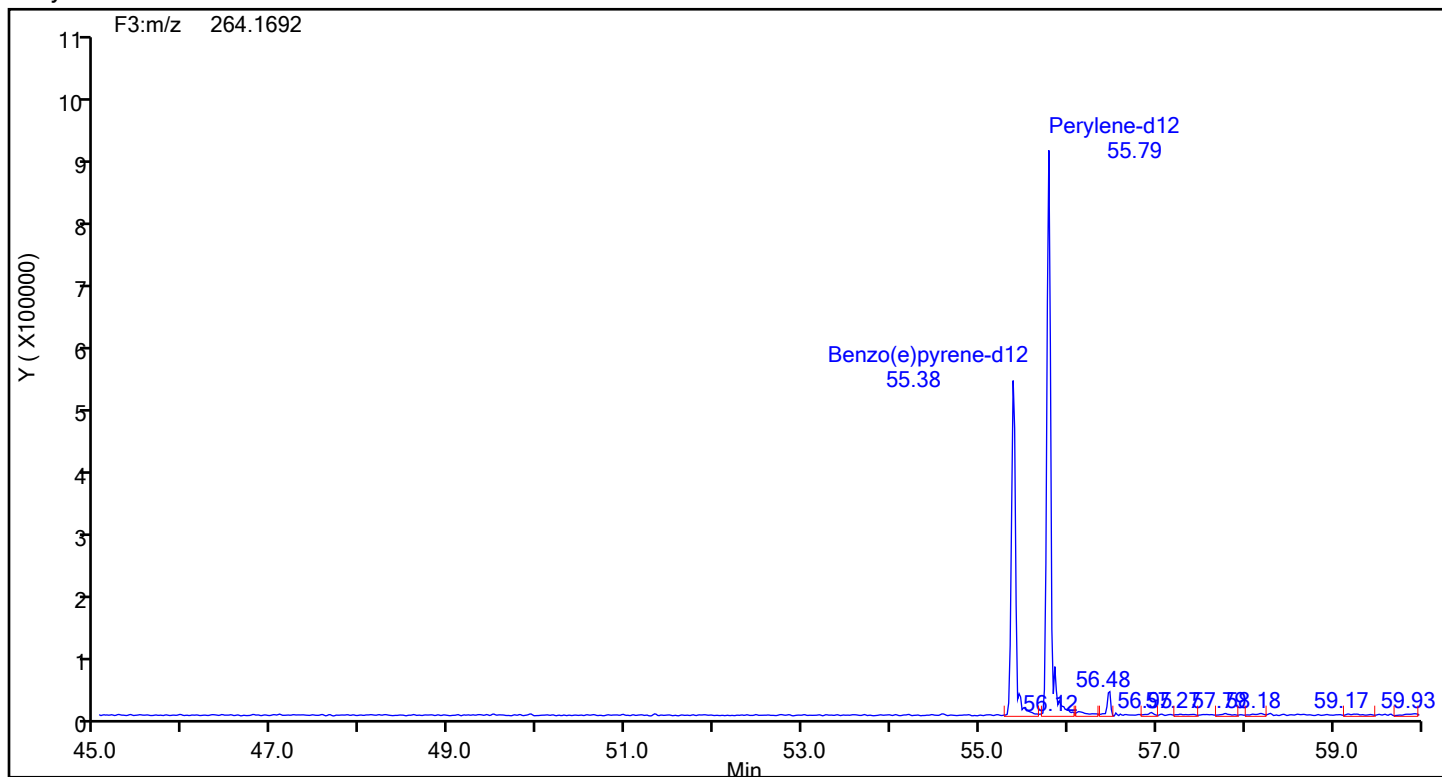


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Perylene



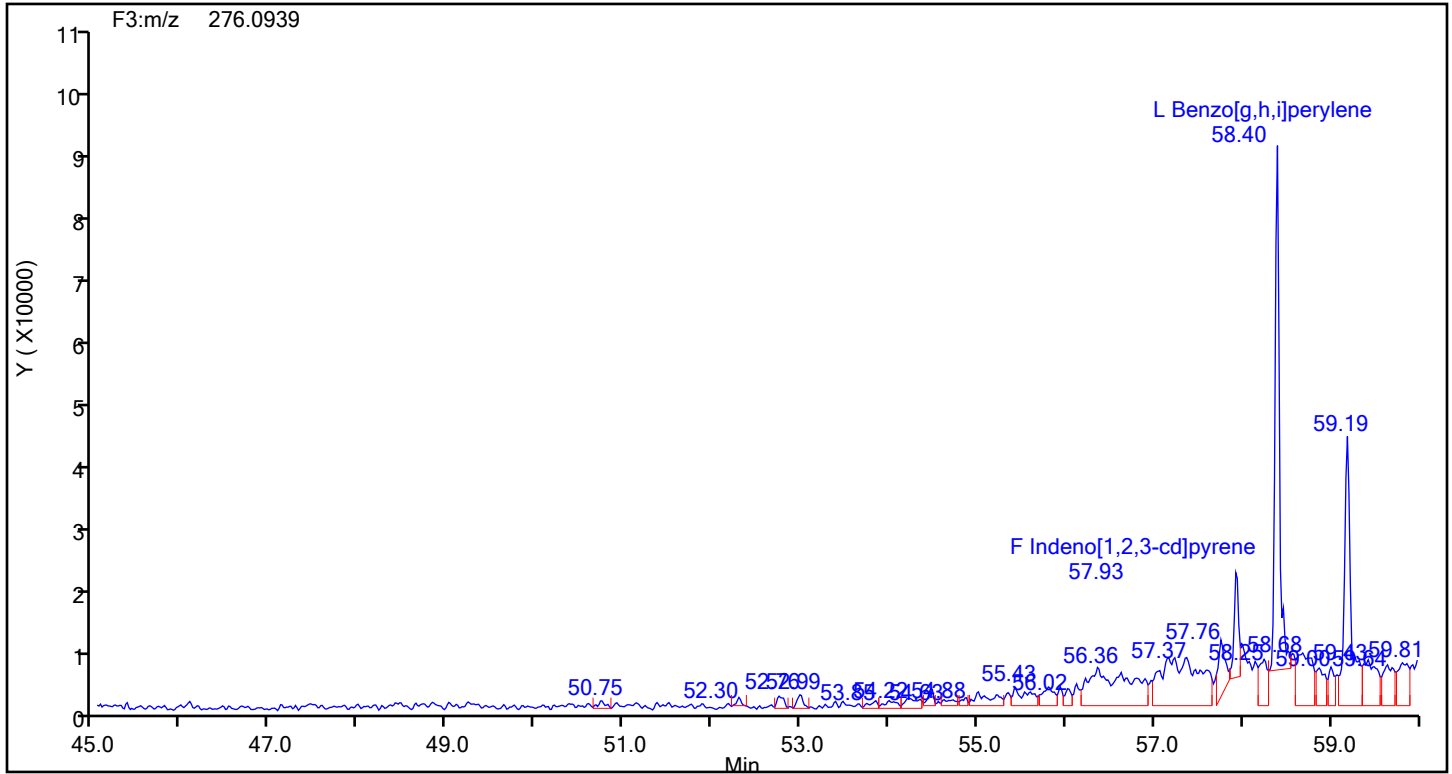
## Perylene Standards



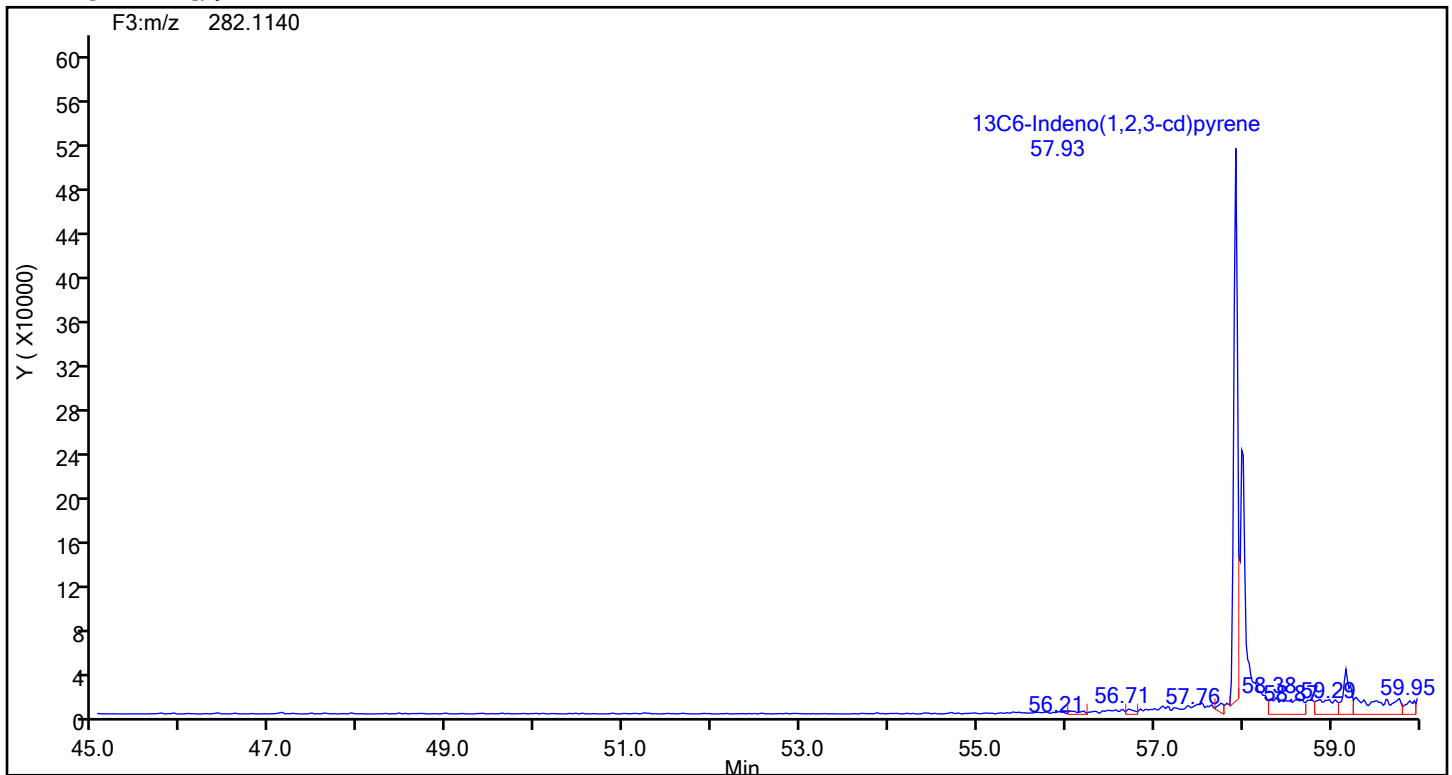
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

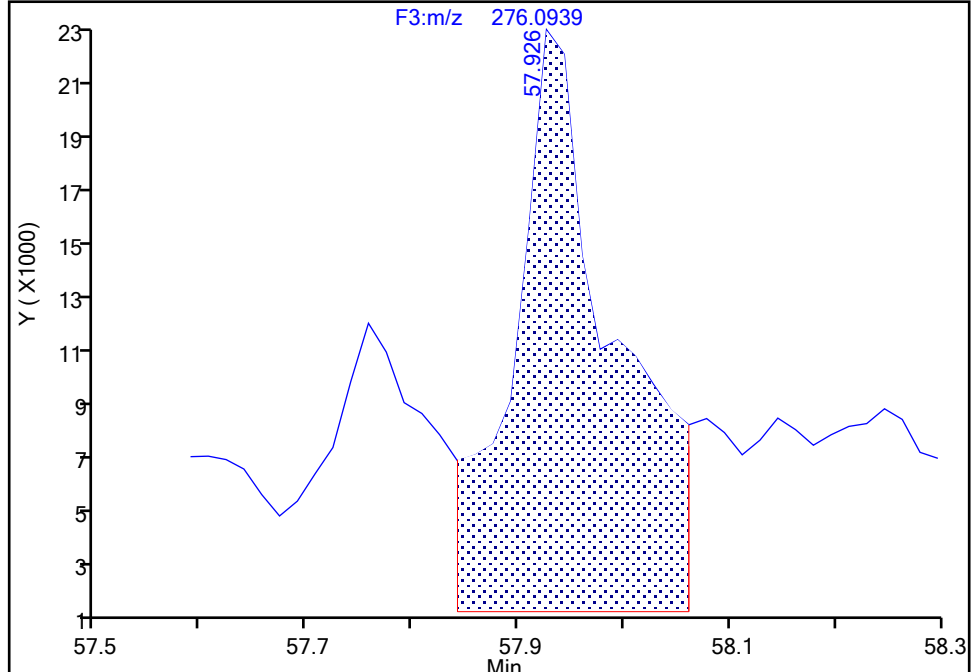
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-2-D Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

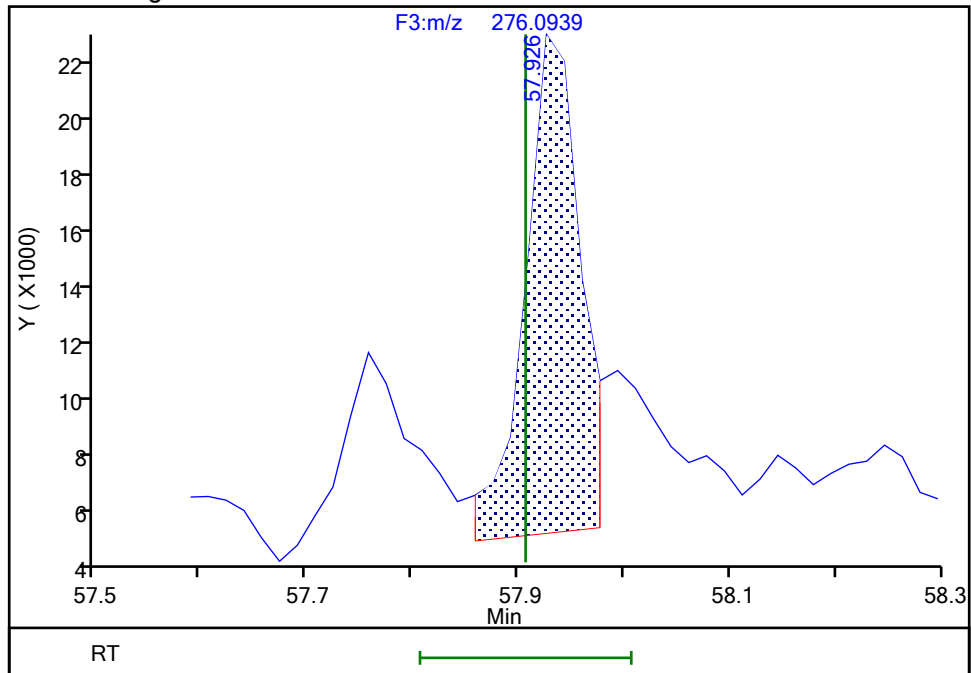
RT: 57.93  
Area: 137410  
Amount: 0.803999  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.93  
Area: 61692  
Amount: 0.360966  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 16-Jul-2024 21:14:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

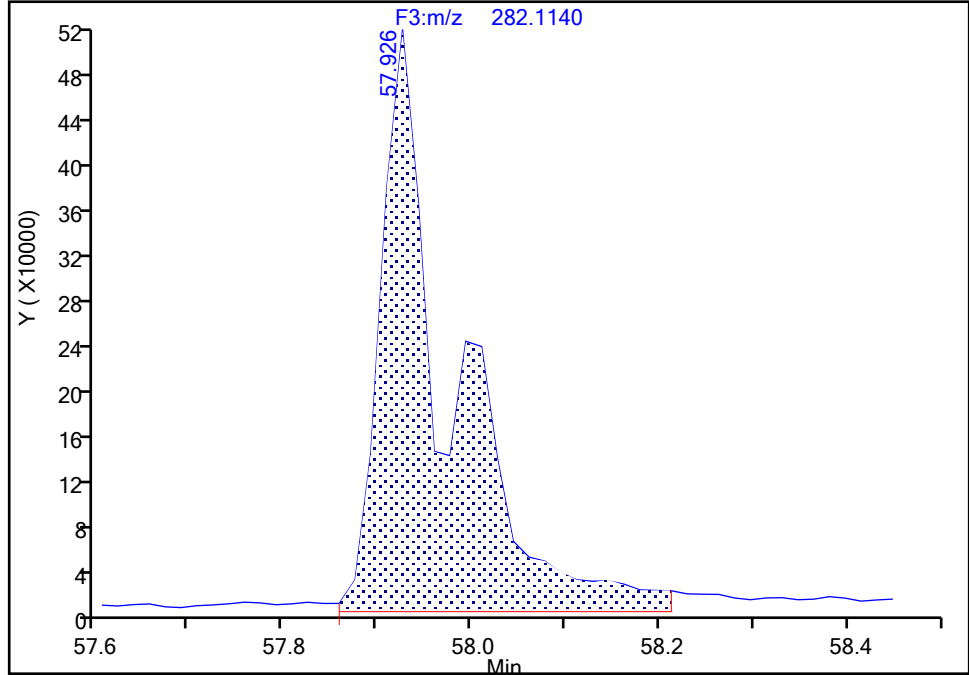
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Injection Date: 16-Jul-2024 20:07:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-2-D Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1\IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2**

Signal: 1

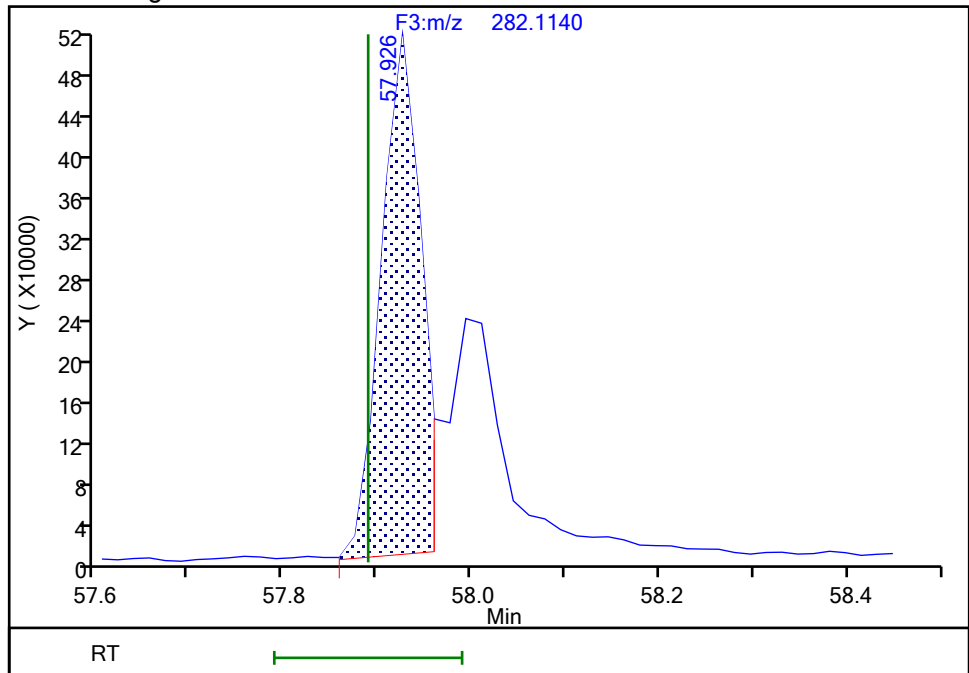
RT: 57.93  
Area: 2689735  
Amount: 7.331391  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.93  
Area: 1519262  
Amount: 4.141041  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 16-Jul-2024 21:14:02 -04:00:00 (UTC)

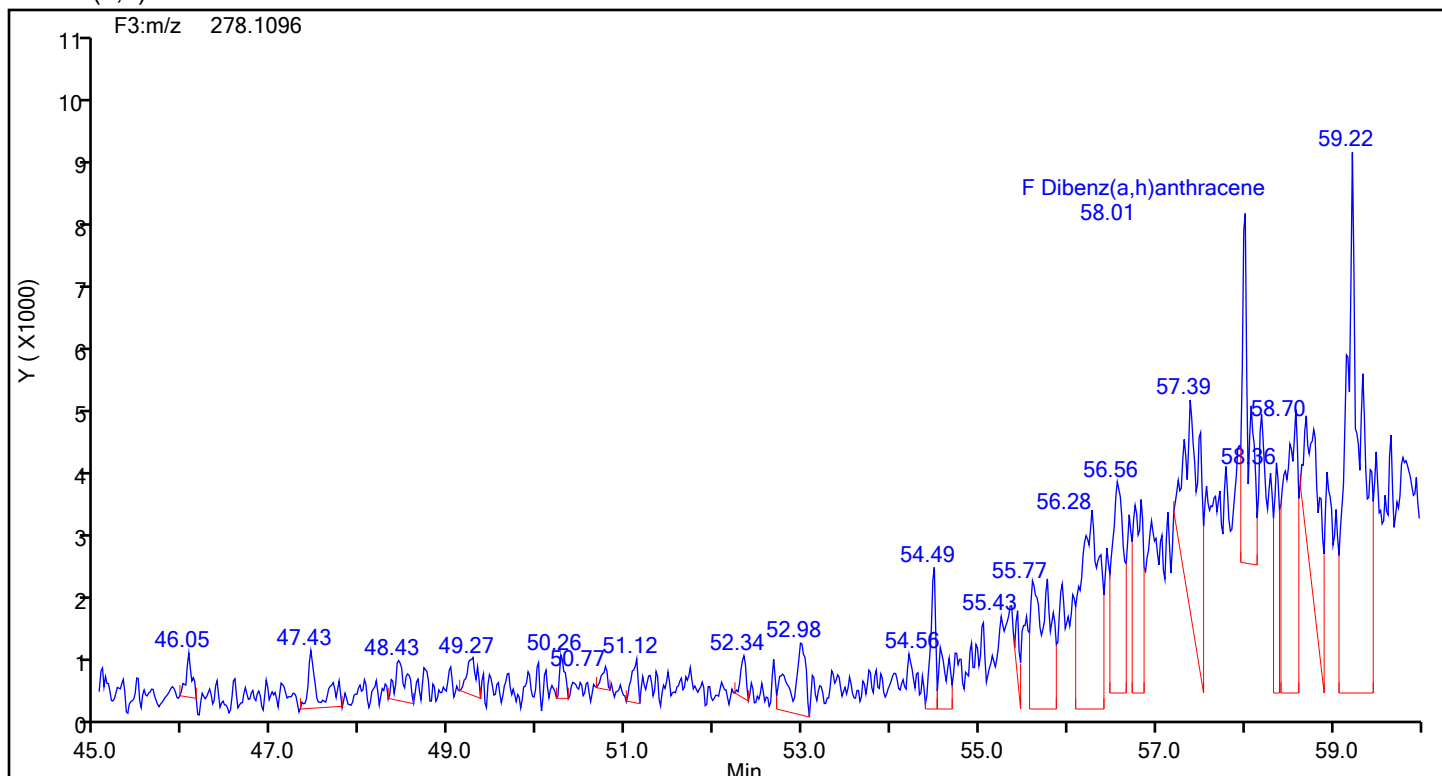
Audit Action: Manually Integrated

Audit Reason: Baseline

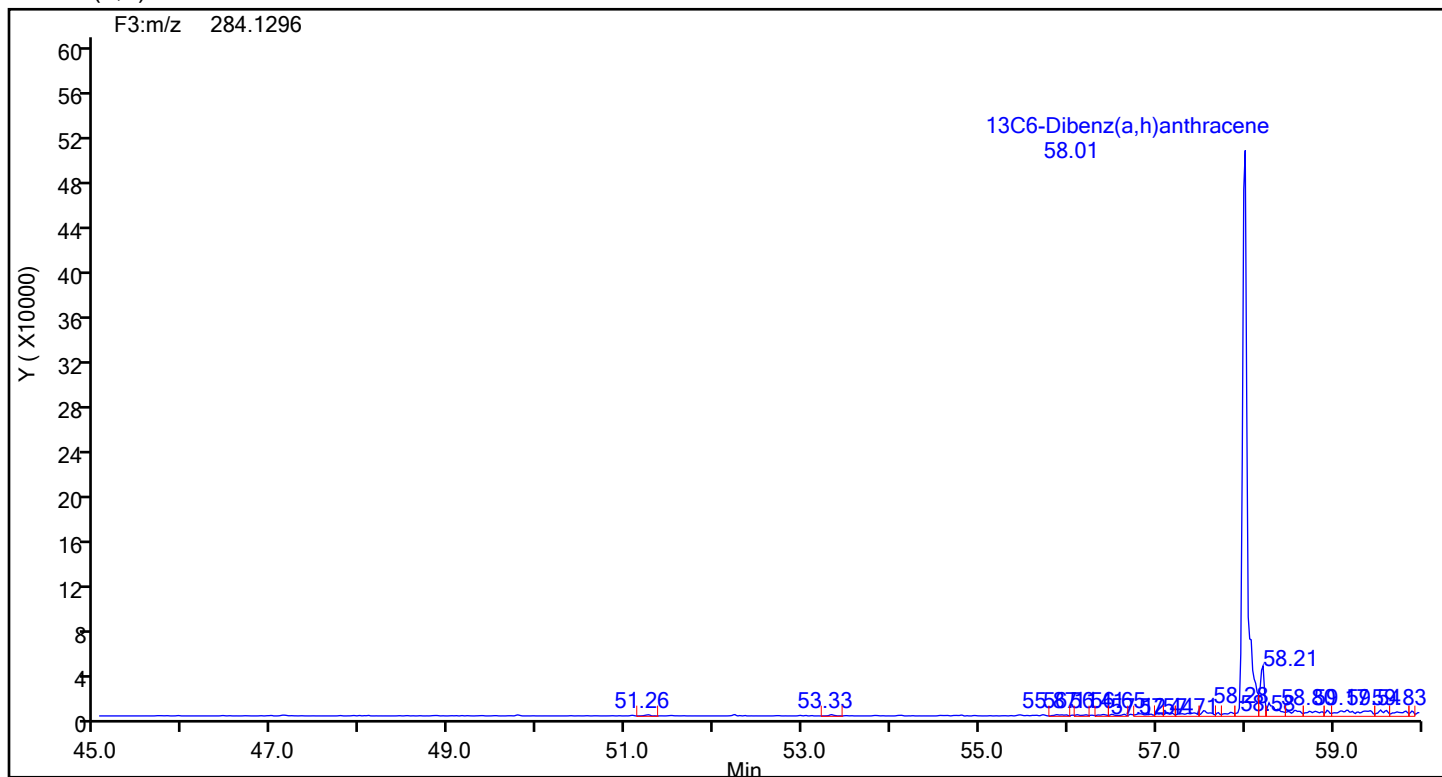
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

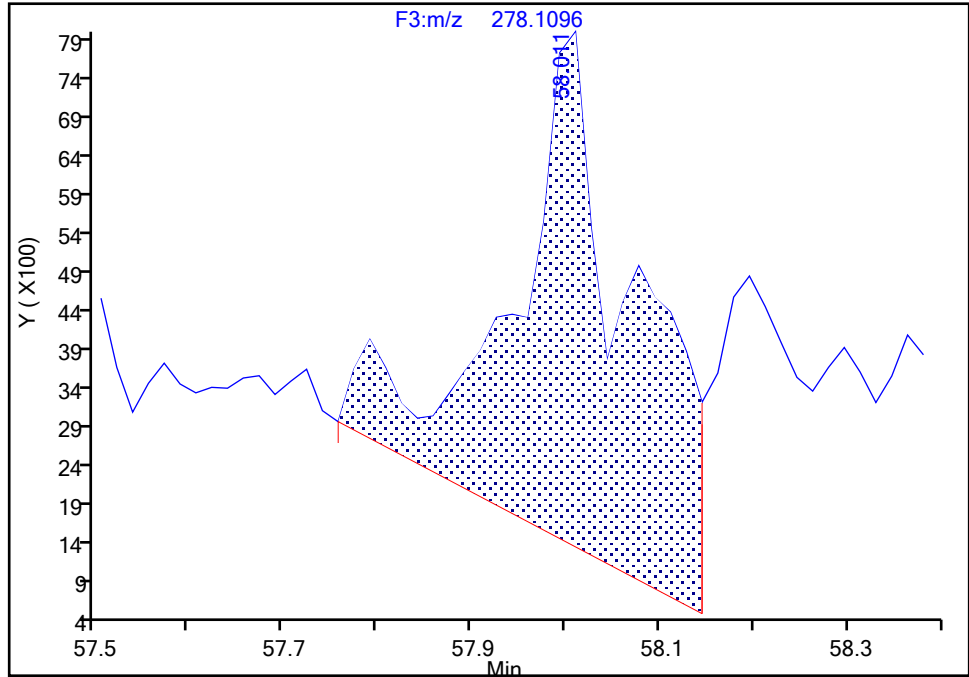
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Injection Date: 16-Jul-2024 20:07:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-2-D Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

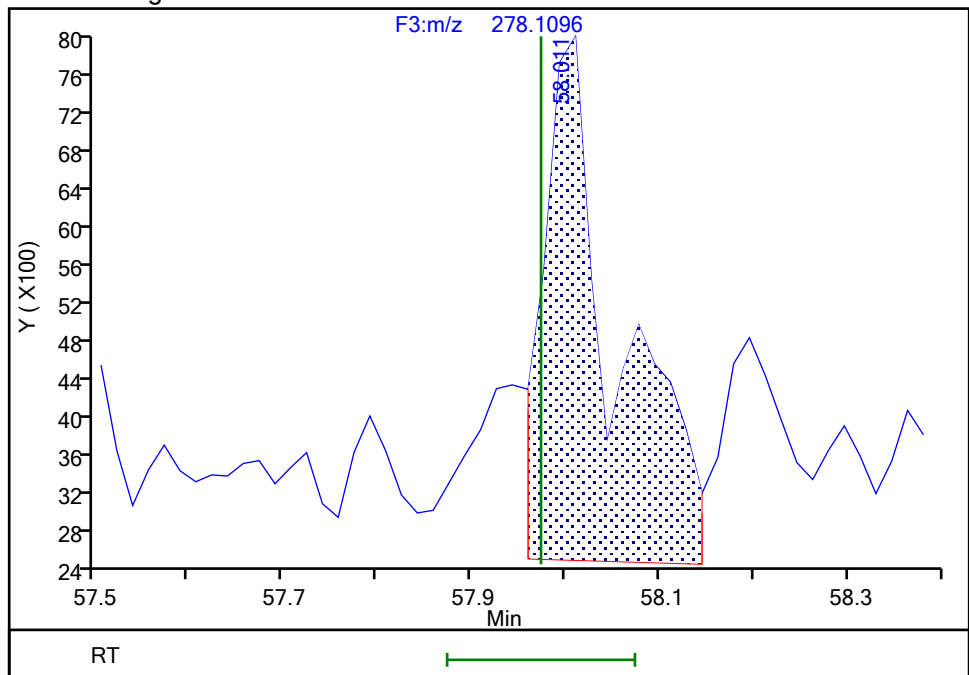
RT: 58.01  
Area: 60527  
Amount: 0.280241  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.01  
Area: 30190  
Amount: 0.139780  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 16-Jul-2024 21:14:32 -04:00:00 (UTC)

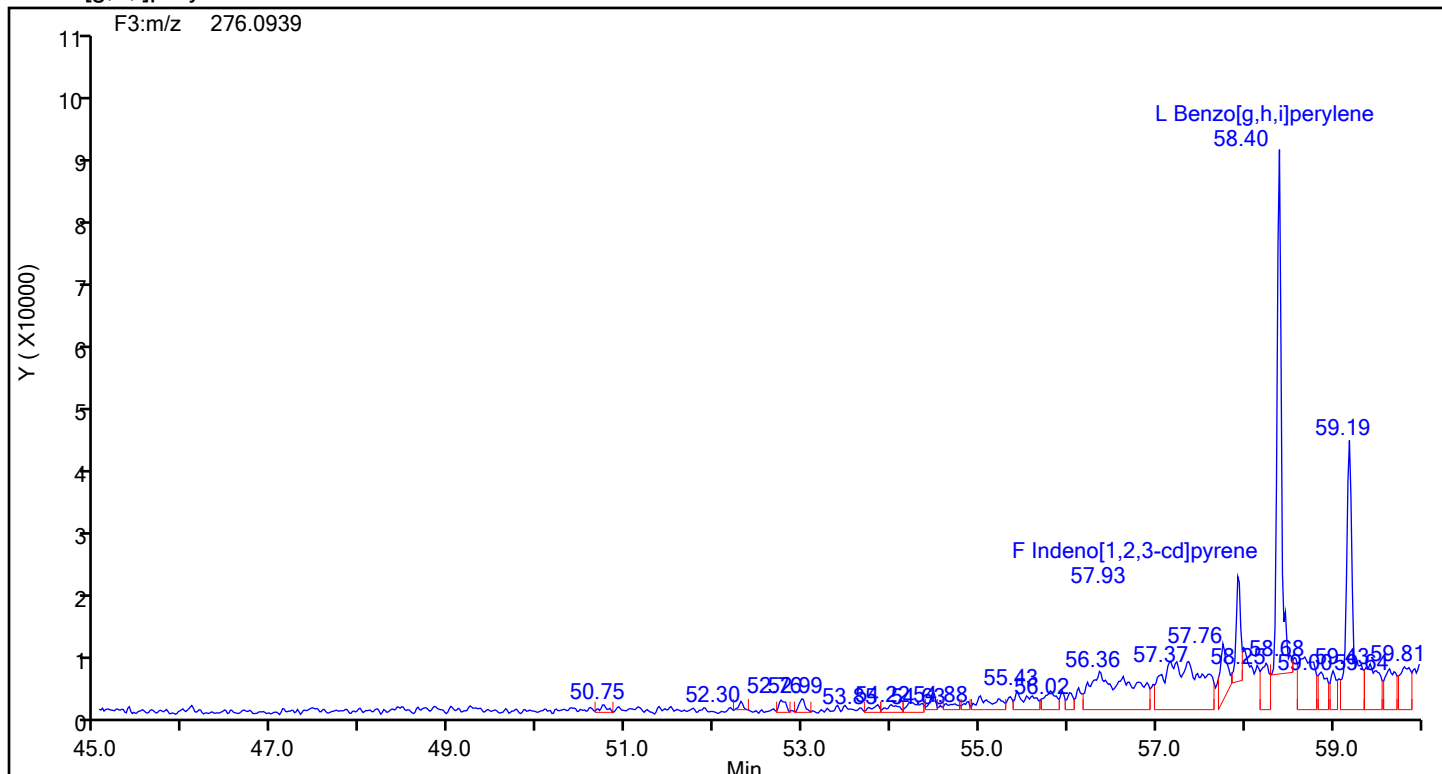
Audit Action: Manually Integrated

Audit Reason: Baseline

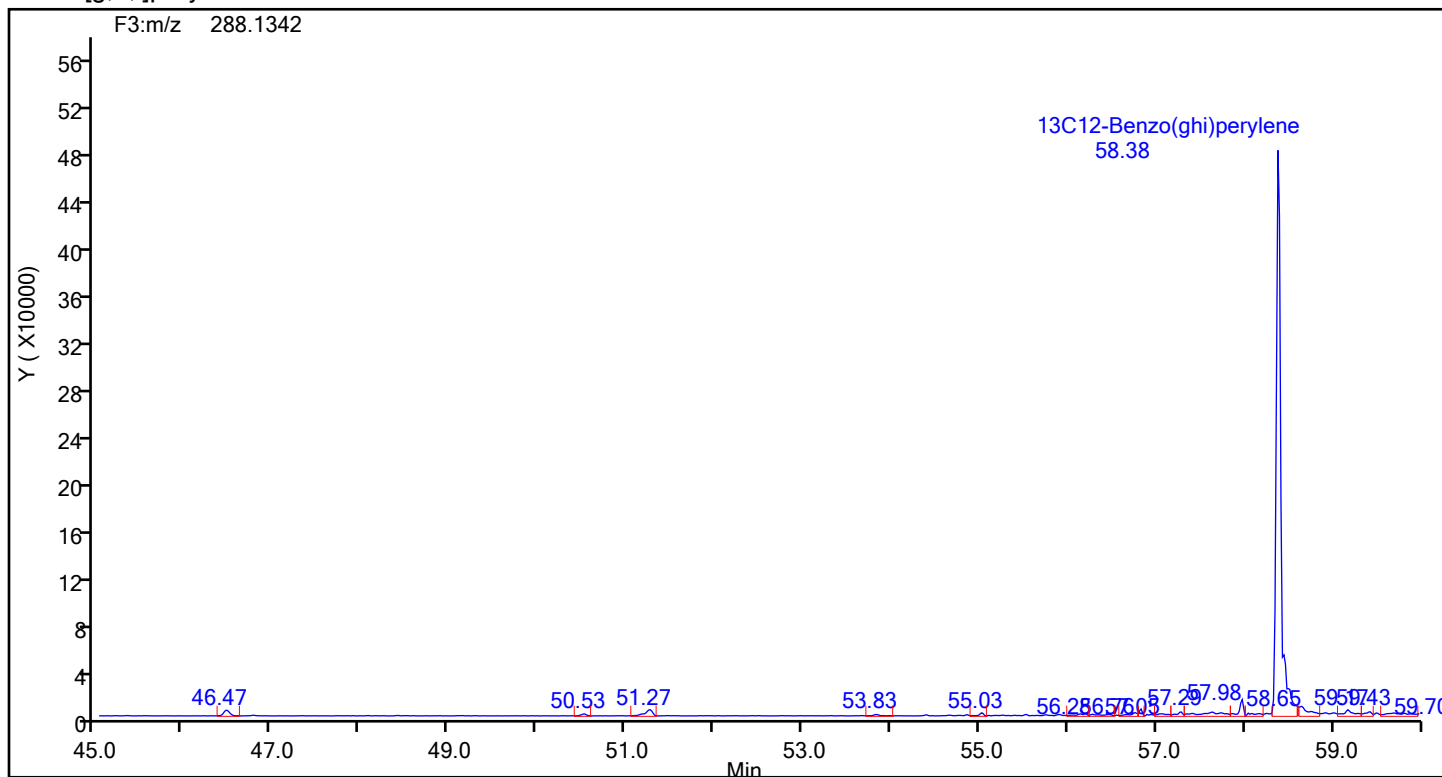
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88812 Sample Line#: 11  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards





## Eurofins Knoxville

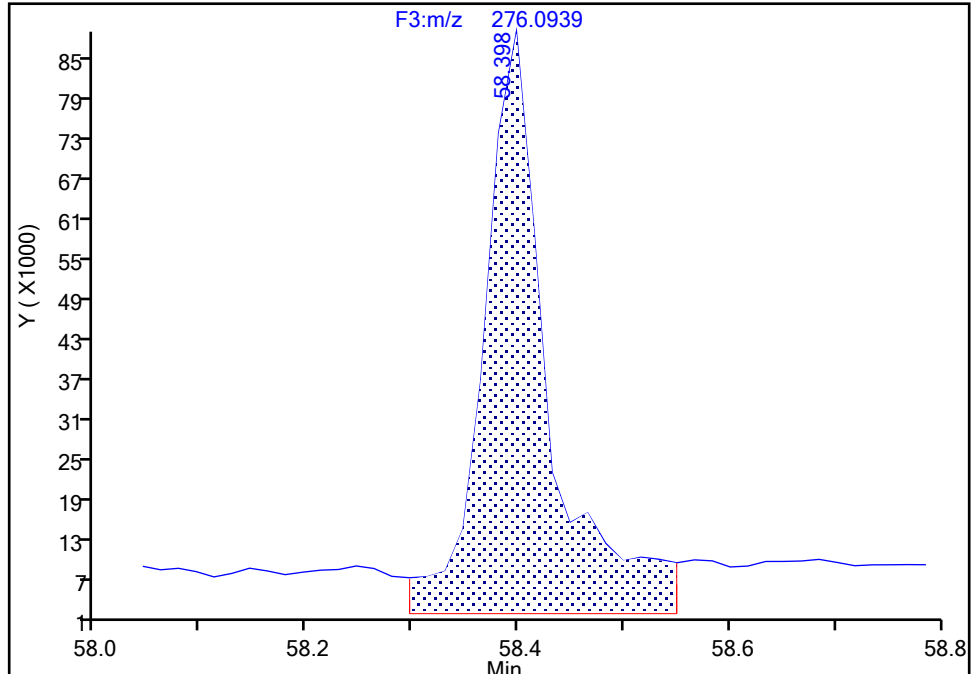
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Injection Date: 16-Jul-2024 20:07:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-2-D Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

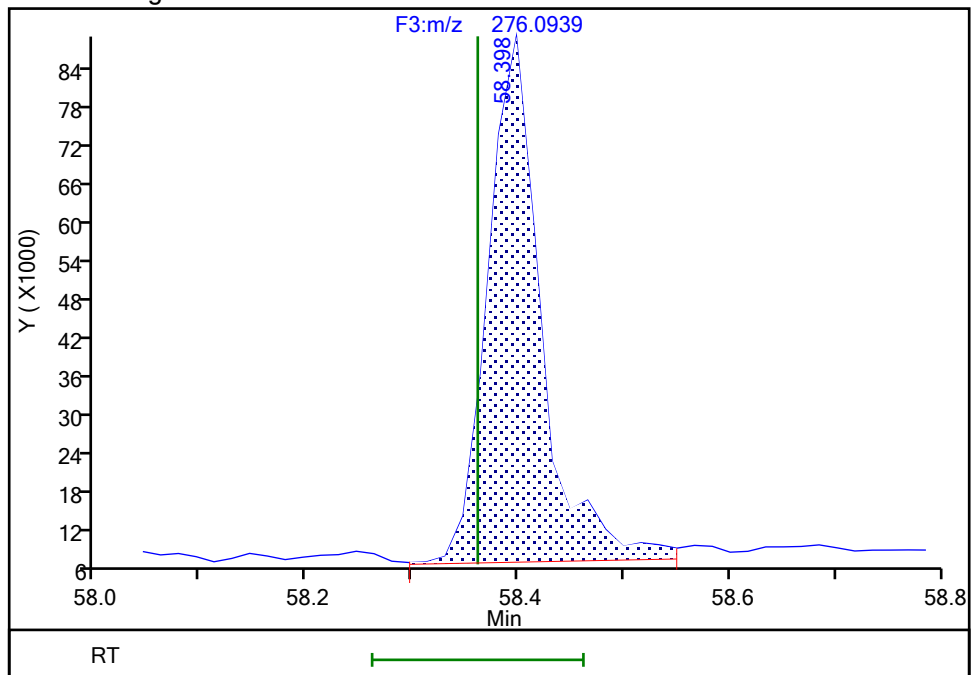
RT: 58.40  
Area: 374238  
Amount: 1.657874  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.40  
Area: 289399  
Amount: 1.282037  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 16-Jul-2024 21:14:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-2-d\_20240716200352.d  
Lims ID: 140-36940-A-2-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Sample Type: Client  
Inject. Date: 16-Jul-2024 20:07:00 ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033522-011  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 16-Jul-2024 21:15:30 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1628

First Level Reviewer: Q9DB

Date: 16-Jul-2024 21:15:30

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.0153	1.53
13C6-Benzo(c)fluorene	66.7	6.57	98.62
13C12-Benzo(j)fluoranthene	66.7	4.58	68.63

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN 3-COMBINED</u>	Lab Sample ID: <u>140-36940-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-3-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/16/2024 11:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 21:12</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88812</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-57-6	2-Methylnaphthalene	14000	B	750	750	2.75
208-96-8	Acenaphthylene	196	B	30.0	30.0	11.7
83-32-9	Acenaphthene	1390	B	300	300	11.0
86-73-7	Fluorene	6930	B	300	300	2.72
85-01-8	Phenanthrene	12800	B	60.0	60.0	5.46
120-12-7	Anthracene	2410		300	300	5.37
206-44-0	Fluoranthene	546	B	60.0	60.0	6.90
129-00-0	Pyrene	915	B	60.0	60.0	6.50
56-55-3	Benzo[a]anthracene	371	B	60.0	60.0	12.4
218-01-9	Chrysene	576	B	60.0	60.0	12.5
205-99-2	Benzo[b]fluoranthene	49.6	J B	300	300	0.964
207-08-9	Benzo[k]fluoranthene	13.1	J B	60.0	60.0	0.848
192-97-2	Benzo[e]pyrene	91.5	B	60.0	60.0	1.09
50-32-8	Benzo[a]pyrene	33.8		30.0	30.0	0.581
198-55-0	Perylene	9.82	J B	30.0	30.0	0.498
193-39-5	Indeno[1,2,3-cd]pyrene	24.7	J B	30.0	30.0	0.343
53-70-3	Dibenz(a,h)anthracene	11.3	J B	60.0	60.0	0.188
191-24-2	Benzo[g,h,i]perylene	34.1	J B	60.0	60.0	0.333

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>3-COMBINED</u>	Lab Sample ID: <u>140-36940-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-3-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/16/2024 11:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/16/2024 21:12</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88812</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL03357	13C6-2-Methylnaphthalene	76		20-130
189811-56-1	13C6-Acenaphthylene	99		20-130
189811-57-2	13C6-Acenaphthene	91		20-130
STL00616	13C6-Fluorene	53		20-130
1397194-60-3	13C6-Fluoranthrene	105		20-130
1397214-90-2	13C3-Pyrene	107		20-130
917378-11-1	13C6-Benzo (a) anthracene	98		20-130
1397177-72-8	13C6-Chrysene	92		20-130
STL03358	13C6-Benzo (b) fluoranthene	42		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	43		20-130
STL03382	13C4-Benzo (e) pyrene	32		20-130
STL03359	13C4-Benzo (a) pyrene	60		20-130
1520-96-3	Perylene-d12	70		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	76		20-130
STL03360	13C6-Dibenz (a,h) anthracene	78		20-130
350820-11-0	13C12-Benzo (ghi) perylene	56		20-130
189811-60-7	13C6-Anthracene	83		20-130
1189955-53-0	13C6-Phenanthrene	75		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Lims ID: 140-36940-A-3-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Sample Type: Client  
Inject. Date: 16-Jul-2024 21:12:00 ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033522-012  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 17:12:52 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1682

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:24	2883082		3.3746	4.728	4.728	0.007209	0.007209	47.28	
Naphthalene	11:23	396201463		1.2893	1065.9	1065.9	2.229	2.229		E
D 13C6-2-Methylnaphthalene	13:46	2194819		1.6031	7.576	7.576	0.0194	0.0194	75.76	
2-Methylnaphthalene	13:46	262517493		1.2786	935.5	935.5	0.1834	0.1834		
D 13C6-Acenaphthylene	16:38	2943941		1.6520	9.861	9.861	0.0135	0.0135	98.61	
Acenaphthylene	16:38	4957283		2.3661	13.1	13.1	0.7812	0.7812		
* Acenaphthene-d10	17:12	903563		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:20	1601580		0.9792	9.051	9.051	0.0131	0.0131	90.51	
Acenaphthene	17:20	18909244		1.2697	93.0	93.0	0.7311	0.7311		
D 13C6-Fluorene	19:37	849357		0.8898	5.282	5.282	0.0143	0.0143	52.82	
Fluorene	19:37	49177034		1.2532	462.0	462.0	0.1815	0.1815		
D 13C6-Phenanthrene	24:59	2240761		0.5724	7.477	7.477	0.005814	0.005814	74.77	
Phenanthrene	24:59	211788051		1.1044	855.8	855.8	0.3639	0.3639		
\$ Anthracin-d10	25:11	182577		0.4257	0.8192	0.8192	0.0138	0.0138	81.92	
D 13C6-Anthracene	25:19	1964283		0.4523	8.294	8.294	0.007358	0.007358	82.94	
Anthracene	25:19	42867690		1.3586	160.6	160.6	0.3583	0.3583		
D 13C6-Fluoranthrene	33:45	6565971		1.1994	10.5	10.5	0.0816	0.0816	105	
Fluoranthene	33:46	27498607		1.1513	36.4	36.4	0.4598	0.4598		
* Pyrene-d10	35:17	2617703		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:26	7581272		1.3512	10.7	10.7	0.2110	0.2110	107	
Pyrene	35:26	49255960		1.0652	61.0	61.0	0.4332	0.4332		
\$ 13C6-Benzo(c)fluorene	39:06	2069989		0.5136	7.698	7.698	0.0433	0.0433	115	
D 13C6-Benzo(a)anthracene	45:53	6139691		1.5189	9.844	9.844	0.0108	0.0108	98.44	
Benzo[a]anthracene	45:54	14802660		0.9739	24.8	24.8	0.8263	0.8263		
D 13C6-Chrysene	46:09	6182506		1.6287	9.244	9.244	0.0101	0.0101	92.44	
Chrysene	46:06	23284384		0.9815	38.4	38.4	0.8322	0.8322		
D 13C6-Benzo(b)fluoranthene	54:29	2503094		1.4621	4.169	4.169	0.007499	0.007499	41.69	
Benzo[b]fluoranthene	54:30	930410		1.1249	3.304	3.304	0.0642	0.0642		
\$ 13C12-Benzo(j)fluoranthene	54:31	999998		1.3558	1.796	1.796	0.007084	0.007084	26.94	
D 13C6-Benzo(k)fluoranthene	54:38	3080932		1.7507	4.286	4.286	0.006263	0.006263	42.86	
Benzo[k]fluoranthene	54:39	303248		1.1271	0.8733	0.8733	0.0566	0.0566		
* Benzo(e)pyrene-d12	55:23	2053109		5.7E+04	5.000	5.000				
D 13C4-Benzo(e)pyrene	55:27	2153707		1.6368	3.204	3.204	0.0250	0.0250	32.04	
Benzo[e]pyrene	55:27	1314935		1.0013	6.098	6.098	0.0725	0.0725		
D 13C4-Benzo(a)pyrene	55:37	3840801		1.5508	6.032	6.032	0.0264	0.0264	60.32	
Benzo[a]pyrene	55:37	962762		1.1130	2.252	2.252	0.0387	0.0387		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D Perylene-d12	55:47	3440586		1.1917	7.031	7.031	0.006487	0.006487	70.31	
Perylene	55:46	322366		1.4307	0.6549	0.6549	0.0332	0.0332		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:54	3195699		1.0218	7.616	7.616	0.0217	0.0217	76.16	
Indeno[1,2,3-cd]pyrene	57:55	592042		1.1249	1.647	1.647	0.0229	0.0229		M
D 13C6-Dibenz(a,h)anthracene	57:59	3398797		1.0553	7.844	7.844	0.0156	0.0156	78.44	
Dibenz(a,h)anthracene	57:59	288496		1.1314	0.7503	0.7503	0.0126	0.0126		
D 13C12-Benzo(ghi)perylene	58:22	2924226		1.2749	5.586	5.586	0.0342	0.0342	55.86	
Benzo[g,h,i]perylene	58:23	854585		1.2838	2.276	2.276	0.0222	0.0222		M

### QC Flag Legend

#### Processing Flags

E - Exceeded Maximum Amount

#### Review Flags

M - Manually Integrated

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
 Lims ID: 140-36940-A-3-D  
 Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
 Sample Type: Client  
 Inject. Date: 16-Jul-2024 21:12:00 ALS Bottle#: 0 Worklist Smp#: 12  
 Injection Vol: 1.0 ul Dil. Factor: 10.0000  
 Sample Info:  
 Misc. Info.: 140-0033522-012  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAL ICAL  
 Last Update: 17-Jul-2024 17:12:52 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1682

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:24	11:25	-1	0.662	2883082	1283708	580	1450	2213		
Naphthalene											
128.0626	11:23	11:24	-2	0.999	396201463	84894441	147535	368837	575		E
13C6-2-Methylnaphthalene											
148.0984	13:46	13:47	-1	0.800	2194819	1030636	742	1855	1389		E
2-Methylnaphthalene											
142.0783	13:46	13:46	-1	1.000	262517493	88052450	9669	24172	9107		
13C6-Acenaphthylene											
158.0828	16:38	16:38	0	0.967	2943941	1036663	530	1325	1956		
Acenaphthylene											
152.0626	16:38	16:38	0	1.000	4957283	1883218	40606	101515	46		
Acenaphthene-d10											
164.1404	17:12	17:12	0		903563	298039	163	407	1828		
13C6-Acenaphthene											
160.0984	17:20	17:19	0	1.007	1601580	549193	307	767	1789		
Acenaphthene											
154.0783	17:20	17:20	0	1.000	18909244	6041336	20393	50982	296		
13C6-Fluorene											
172.0984	19:37	19:35	1	1.140	849357	251975	303	757	832		
Fluorene											
166.0783	19:37	19:37	0	1.000	49177034	14832412	2292	5730	6471		
13C6-Phenanthrene											
184.0984	24:59	25:00	3	0.708	2240761	425157	129	322	3296		
Phenanthrene											
178.0783	24:59	25:00	2	1.000	211788051	41152444	6835	17087	6021		
Anthracin-d10											
188.1410	25:11	25:12	2	0.714	182577	32481	228	570	142		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Anthracene											
184.0984	25:19	25:19	3	0.717	1964283	350994	129	322	2721		
Anthracene											
178.0783	25:19	25:20	2	1.000	42867690	6891291	6835	17087	1008		
13C6-Fluoranthrene											
208.0984	33:45	33:44	5	0.957	6565971	1118208	3786	9465	295		
Fluoranthene											
202.0783	33:46	33:45	6	1.000	27498607	4902427	23676	59190	207		
Pyrene-d10											
212.1404	35:17	35:13	5		2617703	483746	649	1622	745		
13C3-Pyrene											
205.0883	35:26	35:25	5	1.004	7581272	1282819	11036	27590	116		
Pyrene											
202.0783	35:26	35:26	5	1.000	49255960	9037473	23676	59190	382		
13C6-Benzo(c)fluorene											
222.1134	39:06	39:03	3	0.706	2069989	386354	860	2150	449		
13C6-Benzo(a)anthracene											
234.1140	45:53	45:57	1	1.300	6139691	1081268	882	2205	1226		
Benzo[a]anthracene											
228.0939	45:54	45:53	2	1.000	14802660	2576946	34805	87012	74		
13C6-Chrysene											
234.1140	46:09	46:13	1	1.308	6182506	1065346	882	2205	1208		
Chrysene											
228.0939	46:06	46:09	-2	0.999	23284384	2582289	34805	87012	74		
13C6-Benzo(b)fluoranthene											
258.1140	54:29	54:29	0	0.984	2503094	727080	590	1475	1232		
Benzo[b]fluoranthene											
252.0939	54:30	54:30	0	1.000	930410	251781	2102	5255	120		
13C12-Benzo(j)fluoranthene											
264.1336	54:31	54:31	0	0.984	999998	279259	517	1292	540		
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:37	1	0.987	3080932	824416	590	1475	1397		
Benzo[k]fluoranthene											
252.0939	54:39	54:38	2	1.000	303248	69123	2102	5255	33		
Benzo(e)pyrene-d12											
264.1692	55:23	55:22	0		2053109	672628	416	1040	1617		
13C4-Benzo(e)pyrene											
256.1073	55:27	55:28	-1	1.001	2153707	724223	2201	5502	329		
Benzo[e]pyrene											
252.0939	55:27	55:27	-1	1.000	1314935	385737	2102	5255	184		
13C4-Benzo(a)pyrene											
256.1073	55:37	55:36	2	1.004	3840801	1219381	2201	5502	554		
Benzo[a]pyrene											
252.0939	55:37	55:37	2	1.000	962762	280473	2102	5255	133		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Perylene-d12											
264.1692	55:47	55:47	0	1.007	3440586	1106566	416	1040	2660		
Perylene											
252.0939	55:46	55:46	-5	1.000	322366	51805	2102	5255	25		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:54	57:54	0	1.046	3195699	1019131	1194	2985	854		
Indeno[1,2,3-cd]pyrene											
276.0939	57:55	57:55	0	1.000	592042	48714	1050	2625	46		M
13C6-Dibenz(a,h)anthracene											
284.1296	57:59	57:59	0	1.047	3398797	919896	885	2212	1039		
Dibenz(a,h)anthracene											
278.1096	57:59	57:59	0	1.000	288496	49307	523	1307	94		
13C12-Benzo(ghi)perylene											
288.1342	58:22	58:23	-1	1.054	2924226	920416	2349	5872	392		
Benzo[g,h,i]perylene											
276.0939	58:23	58:23	0	1.000	854585	283211	1050	2625	270		M

### QC Flag Legend

#### Processing Flags

E - Exceeded Maximum Amount

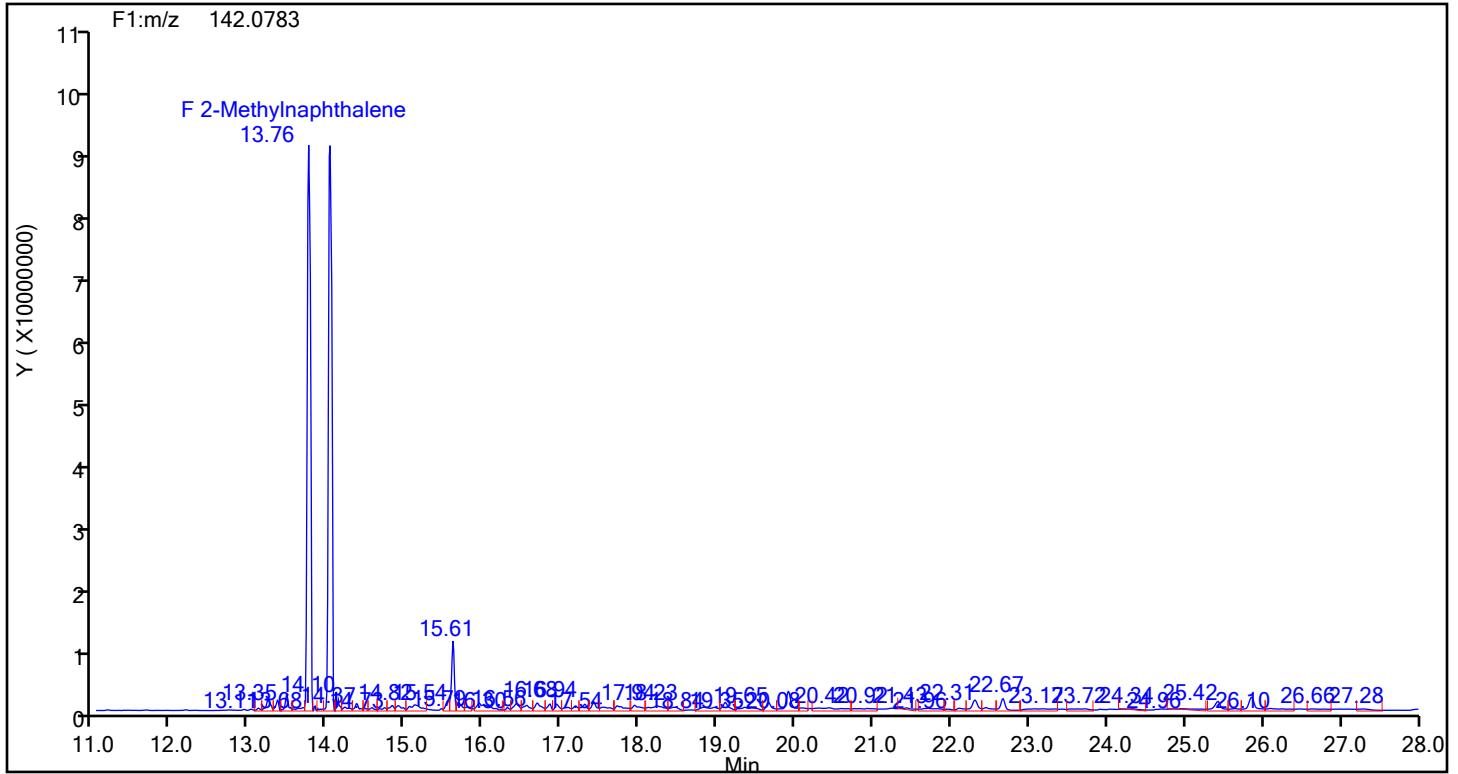
#### Review Flags

M - Manually Integrated

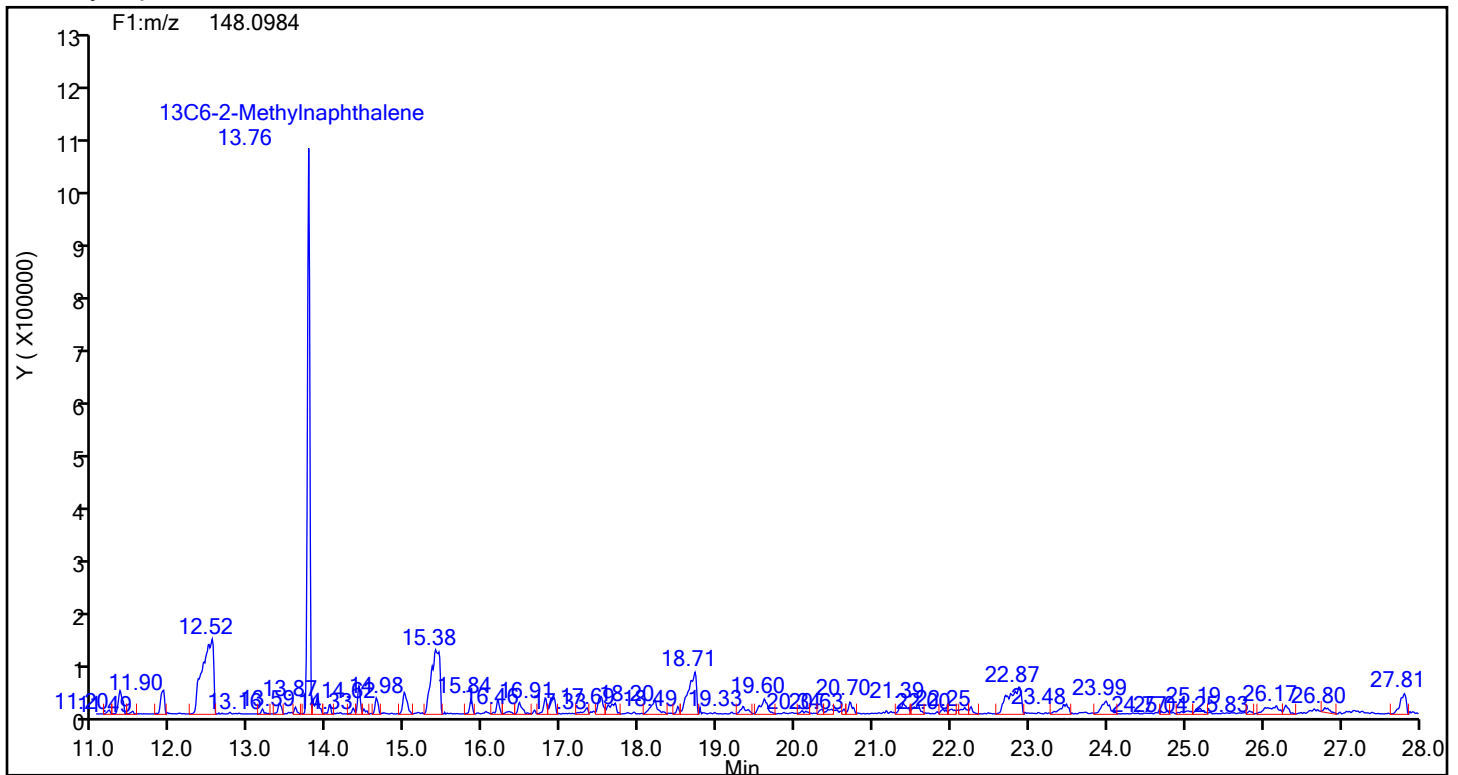
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



## 2-Methylnaphthalene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d

Injection Date: 16-Jul-2024 21:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED

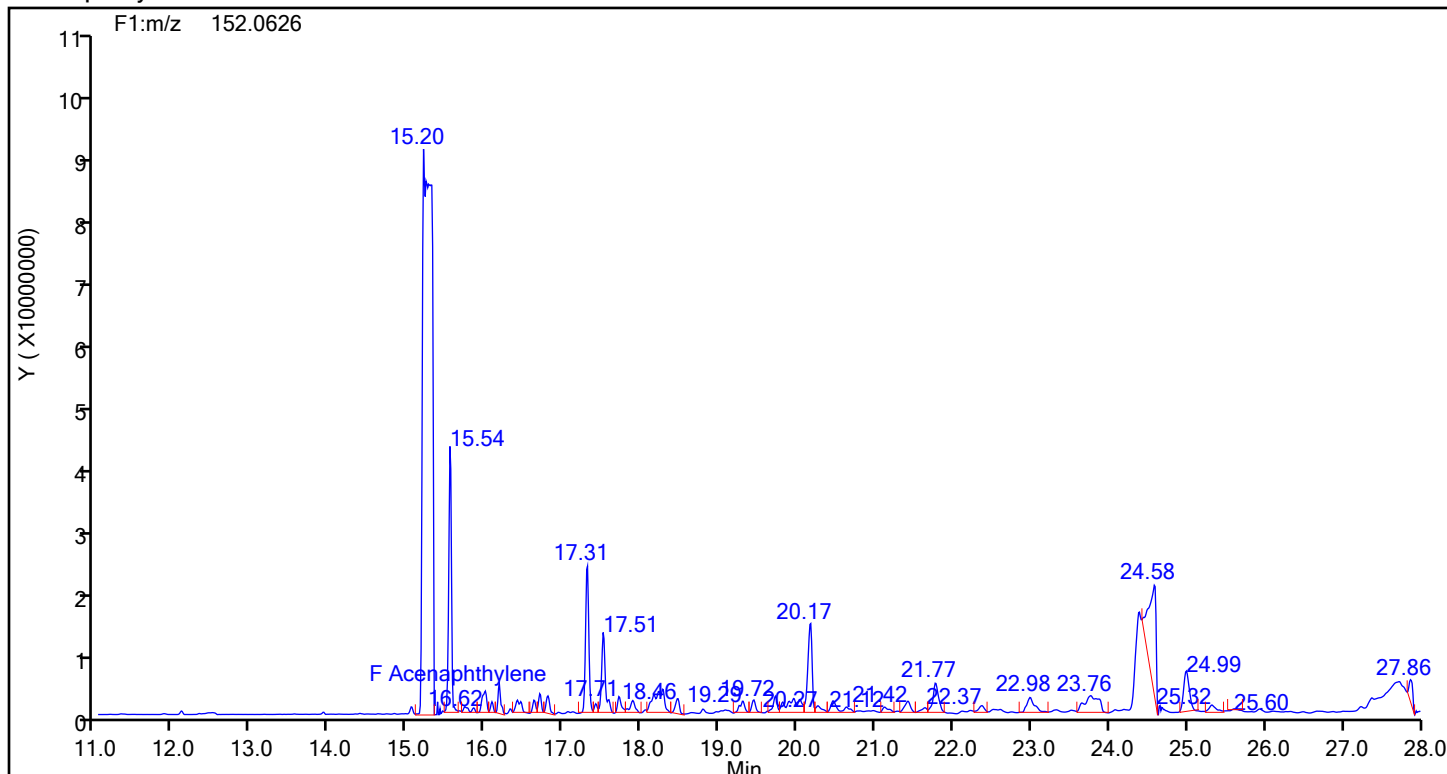
Worklist#: 88812

Sample Line#: 12

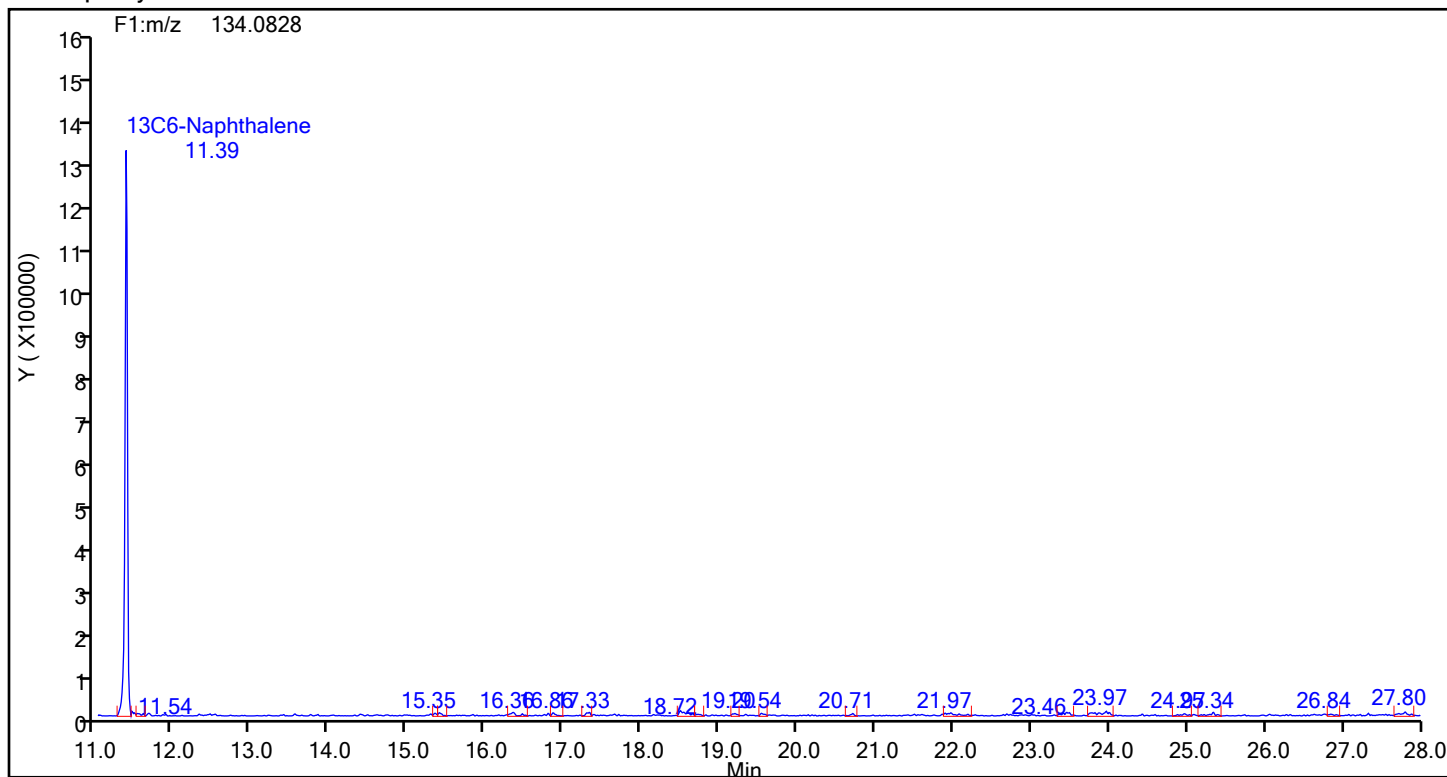
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Acenaphthylene



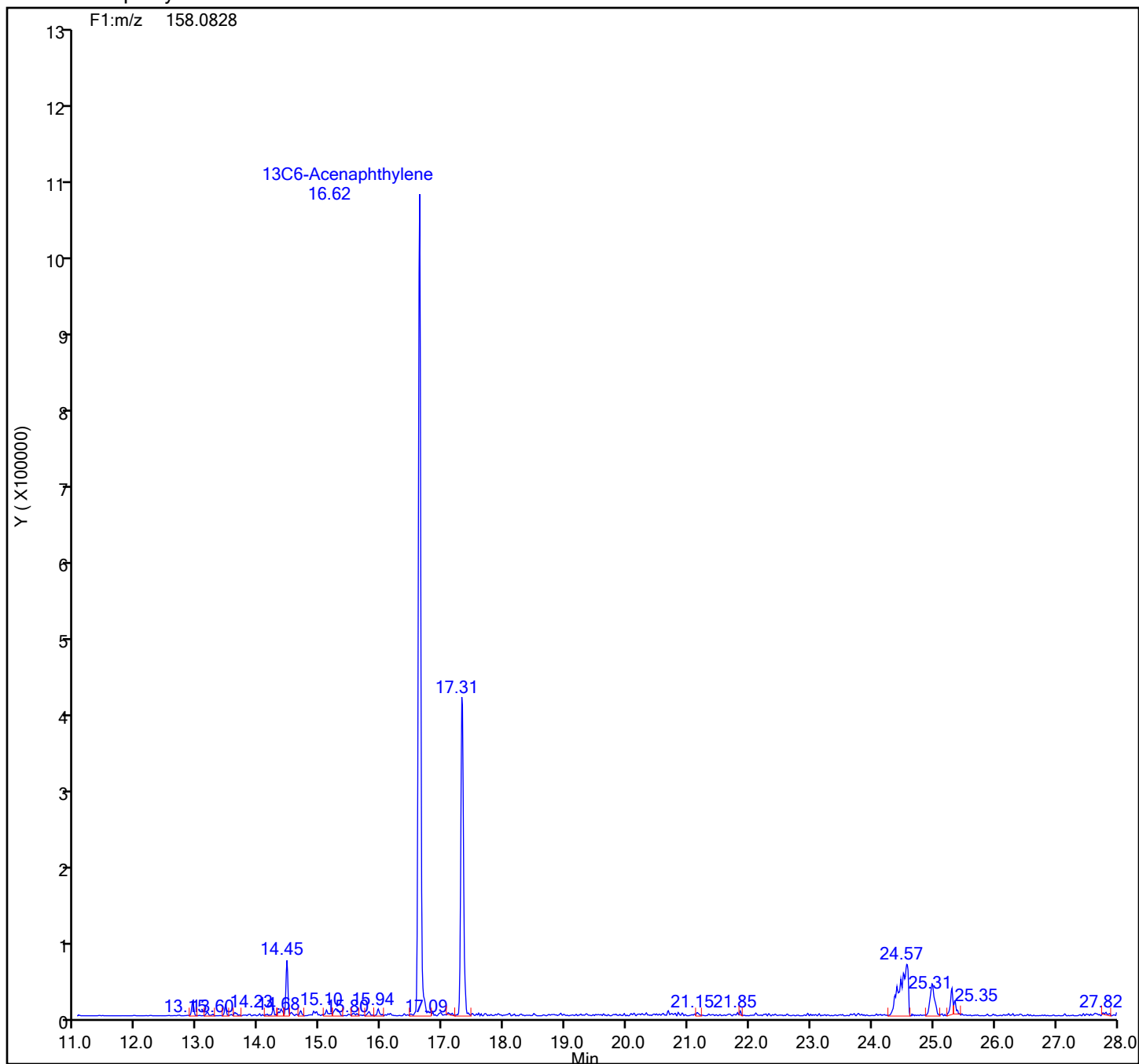
## Acenaphthylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

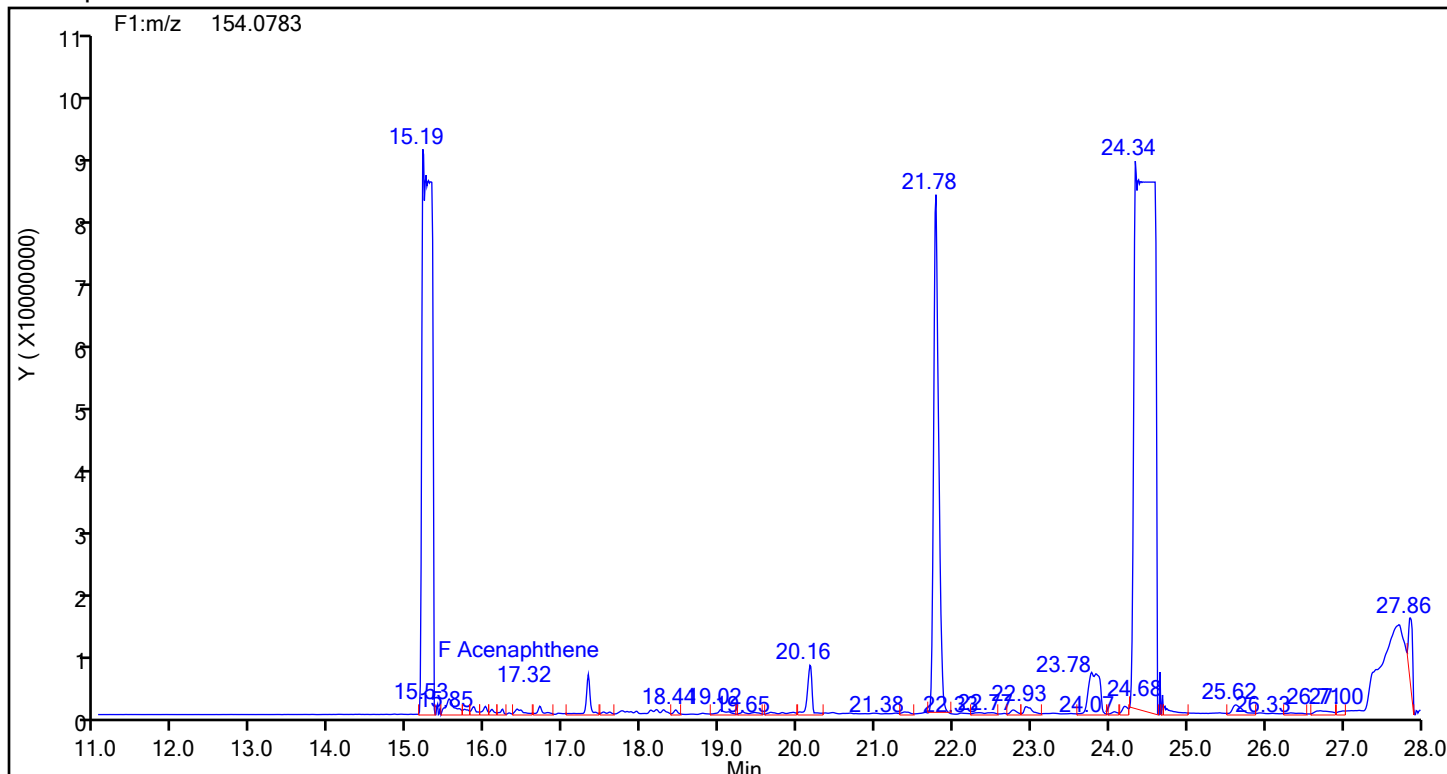
## 13C6-Acenaphthylene Standards



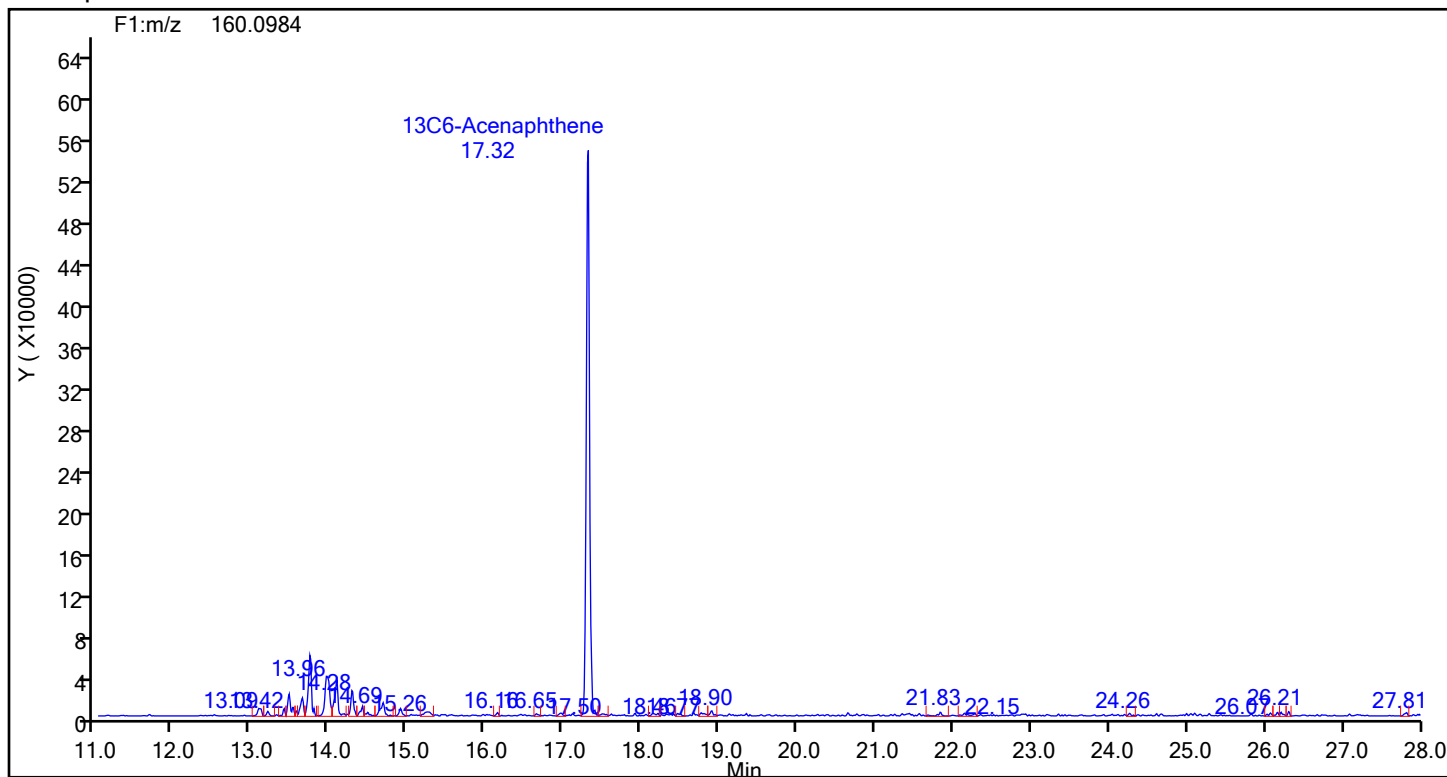
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



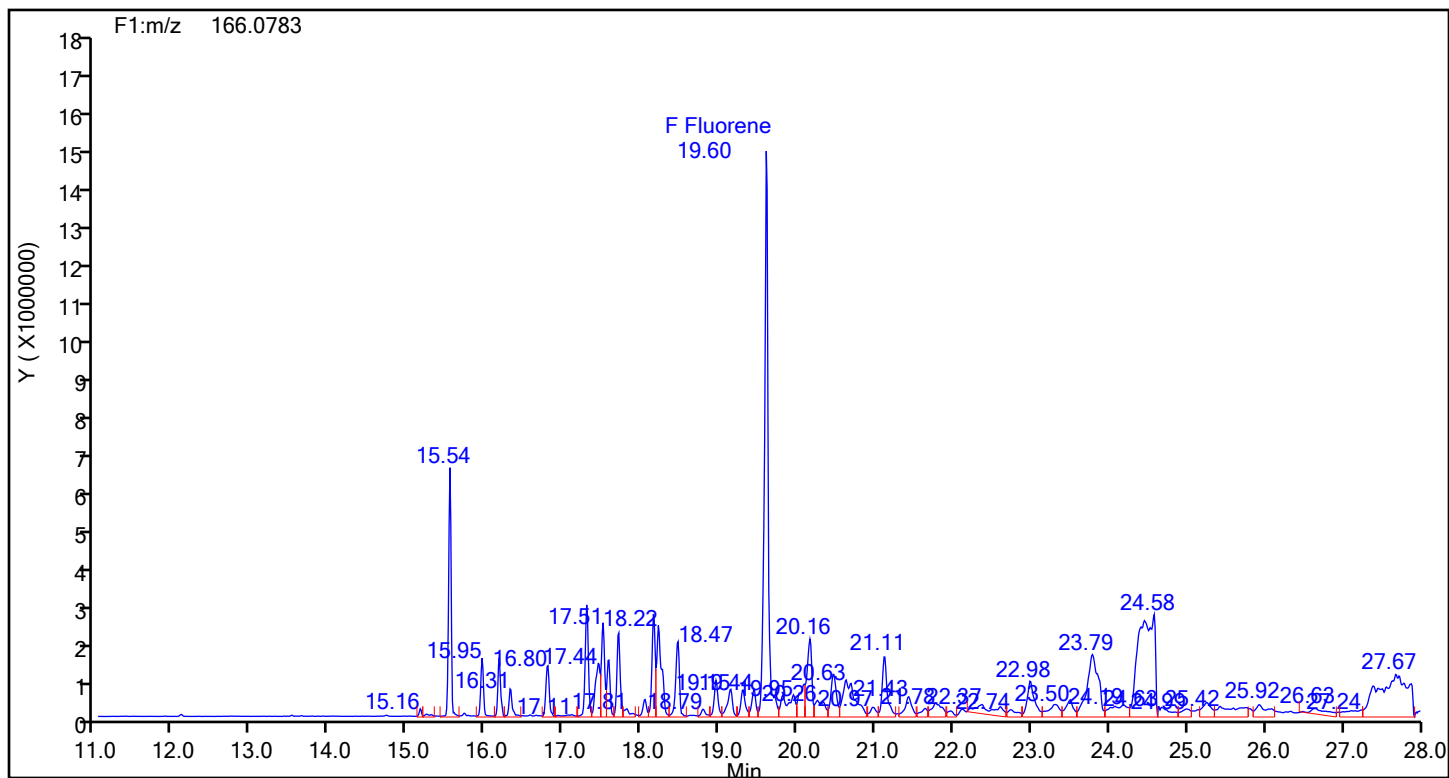
## Acenaphthene Standards



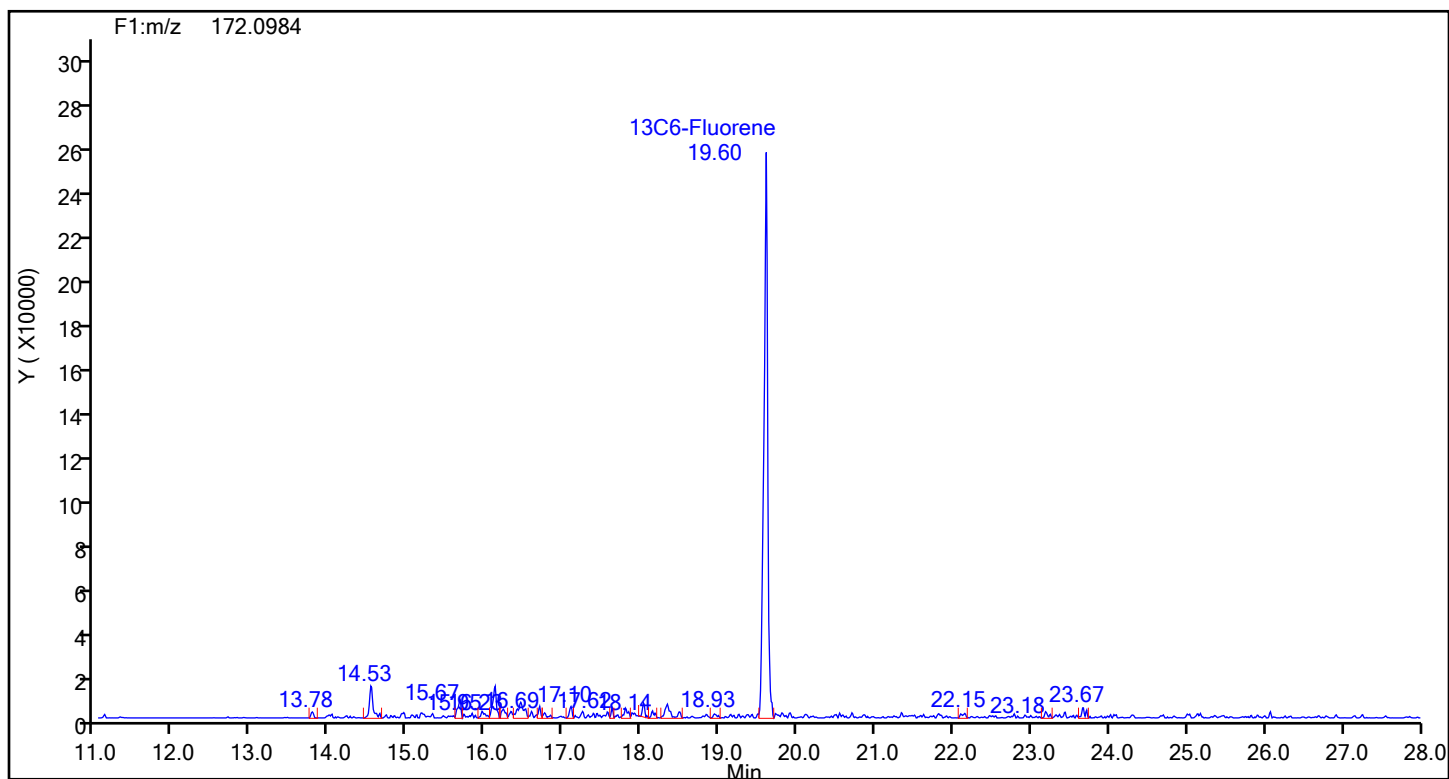
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



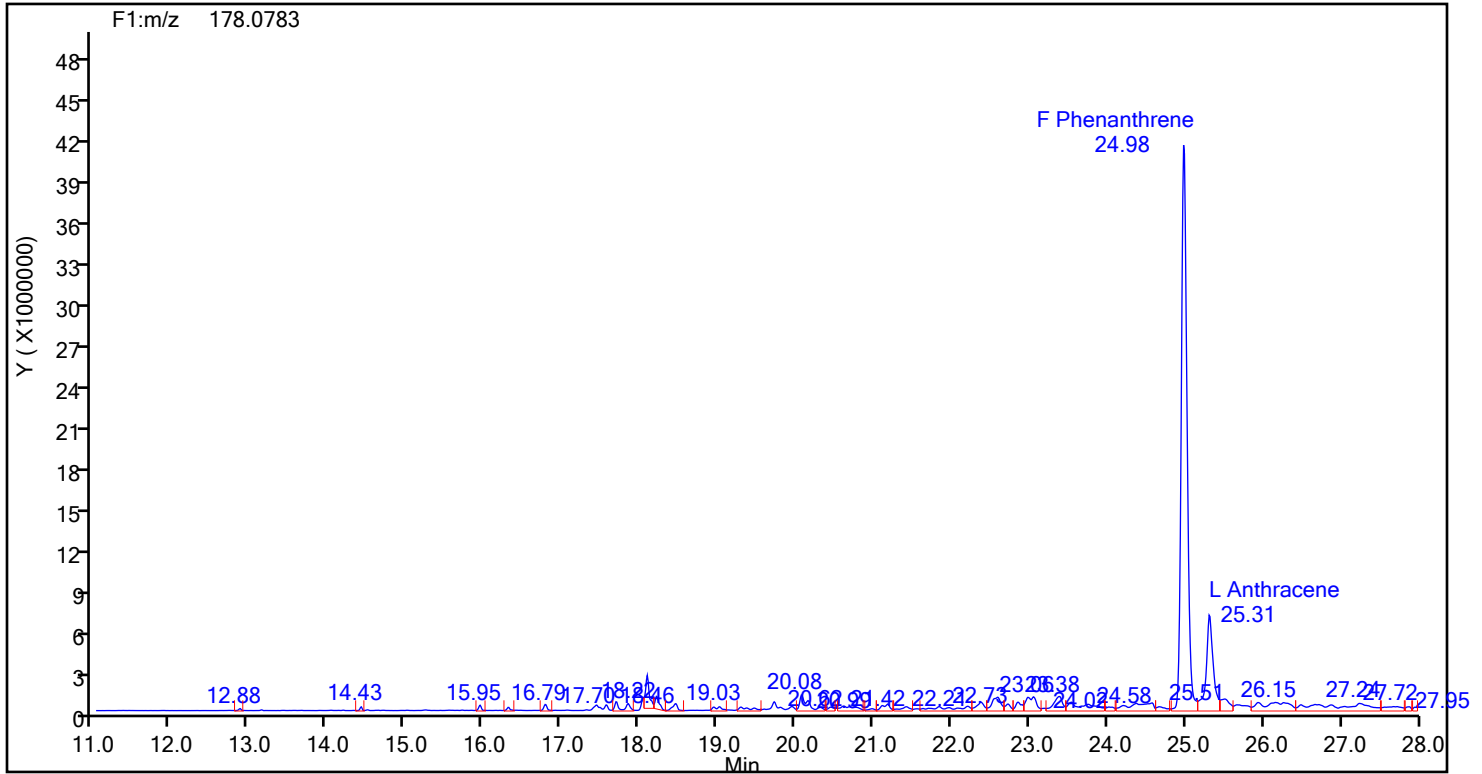
## Fluorene Standards



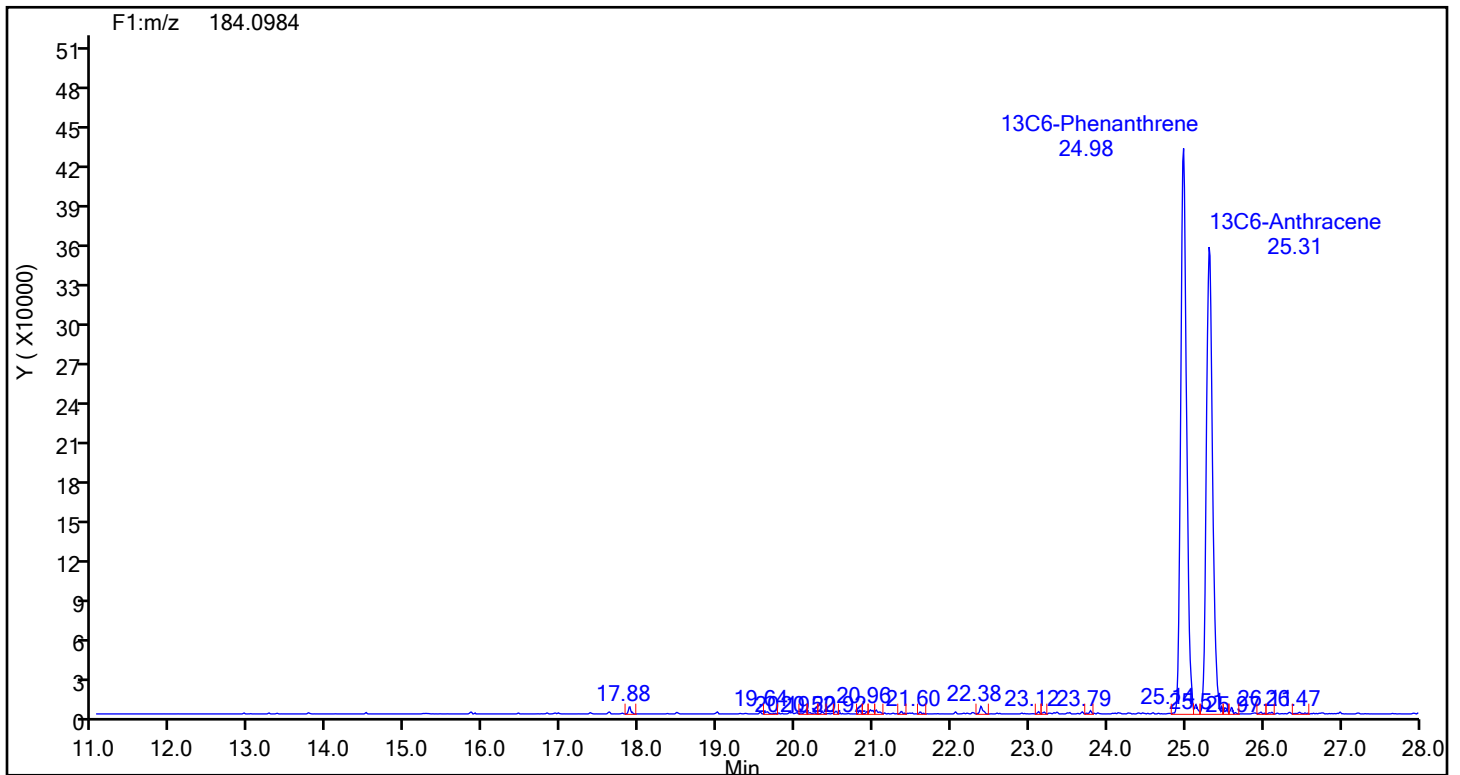
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Phenanthrene

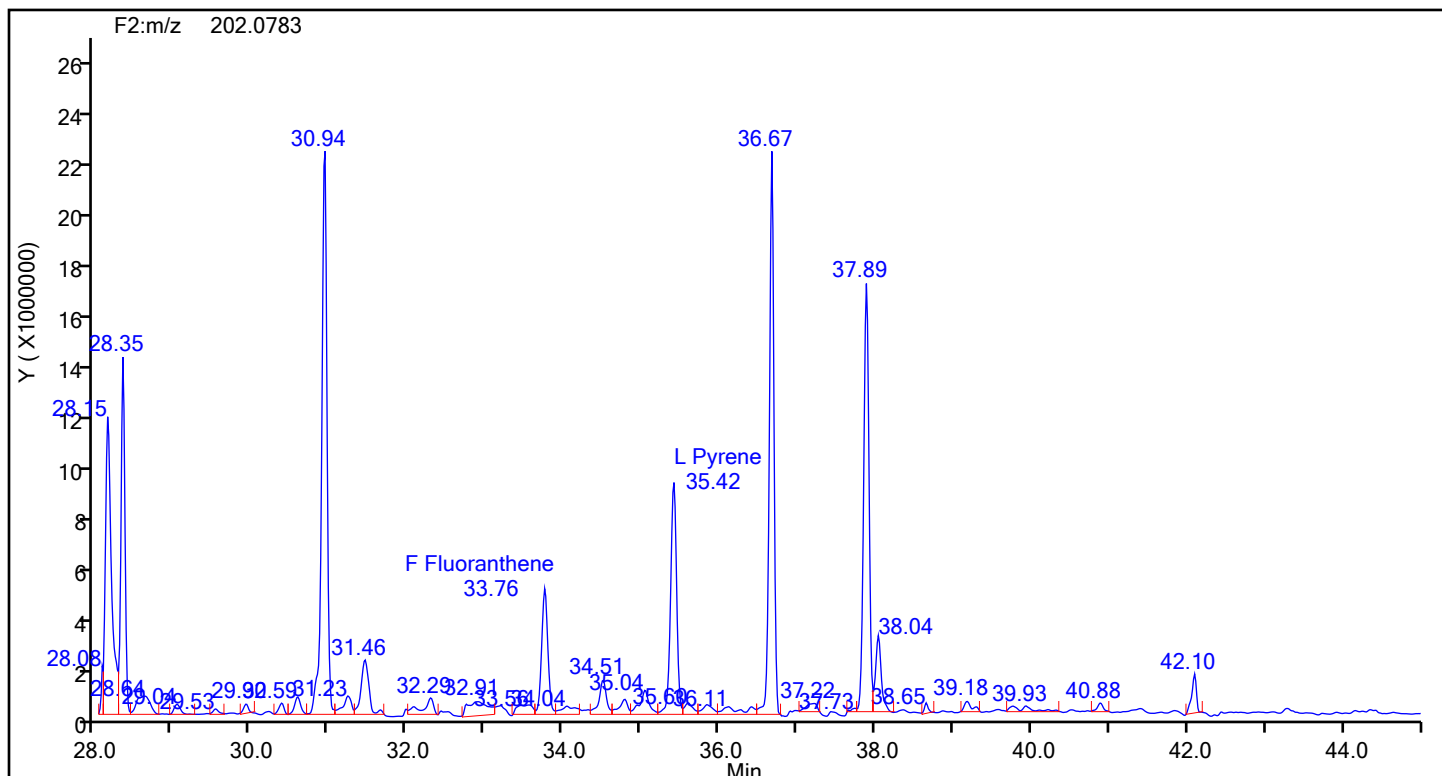


## Phenanthrene Standards

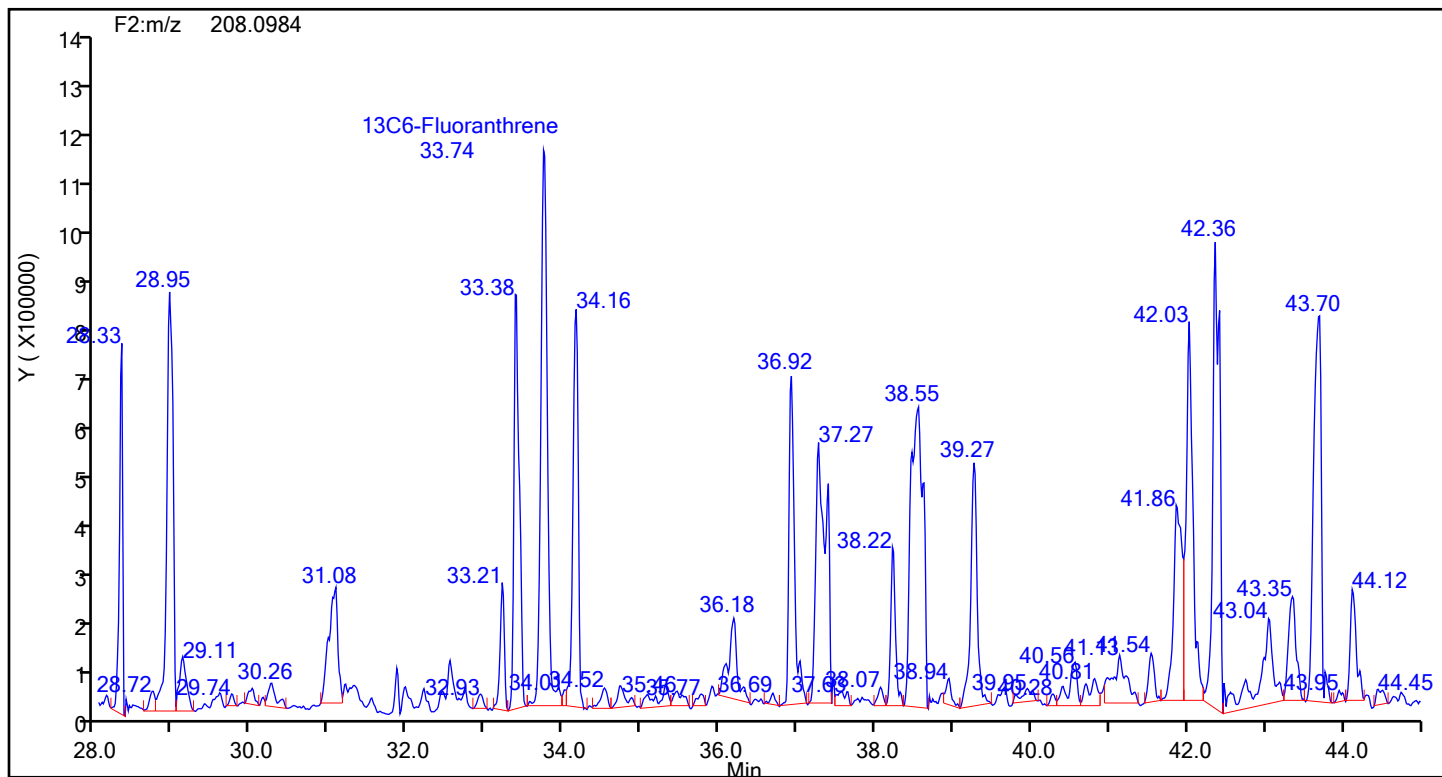


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



## Fluoranthene Standards

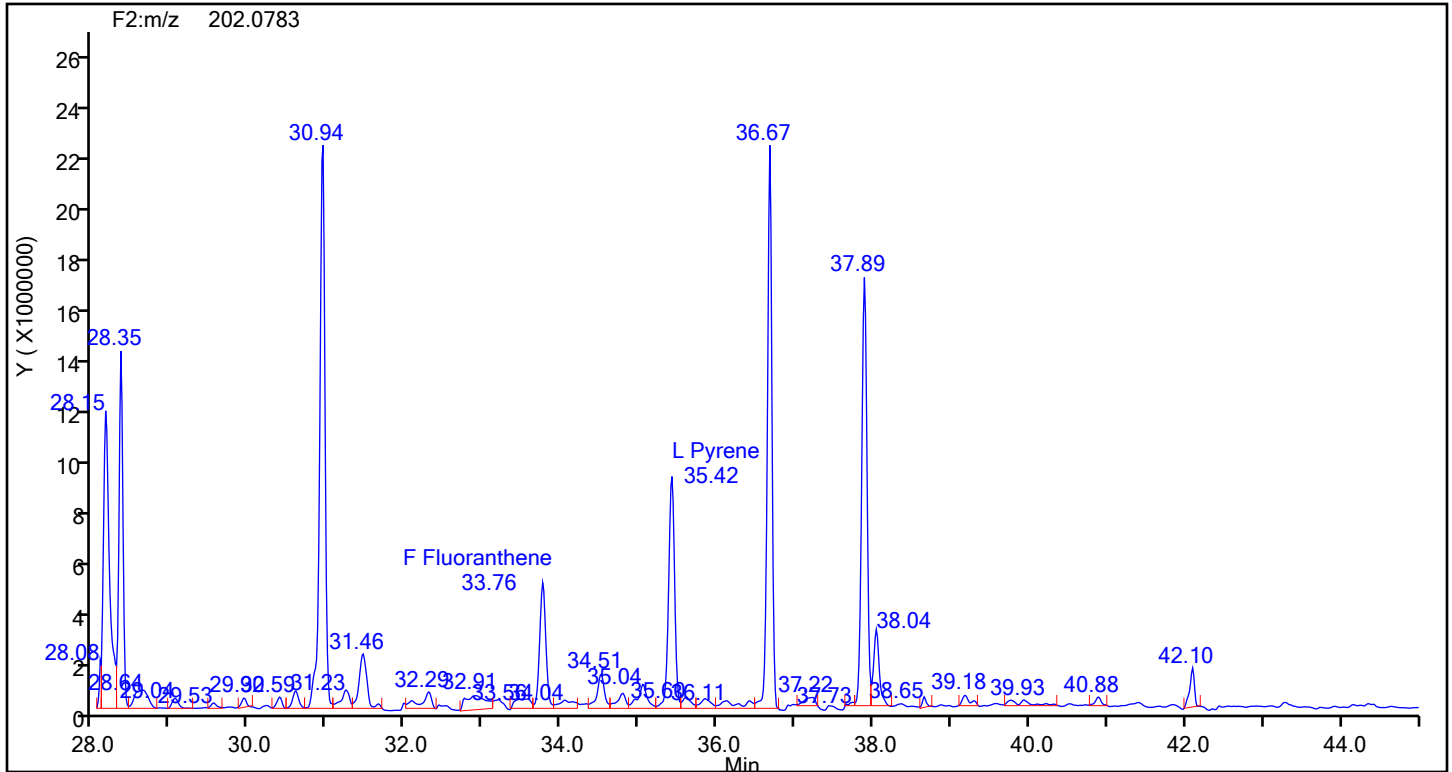




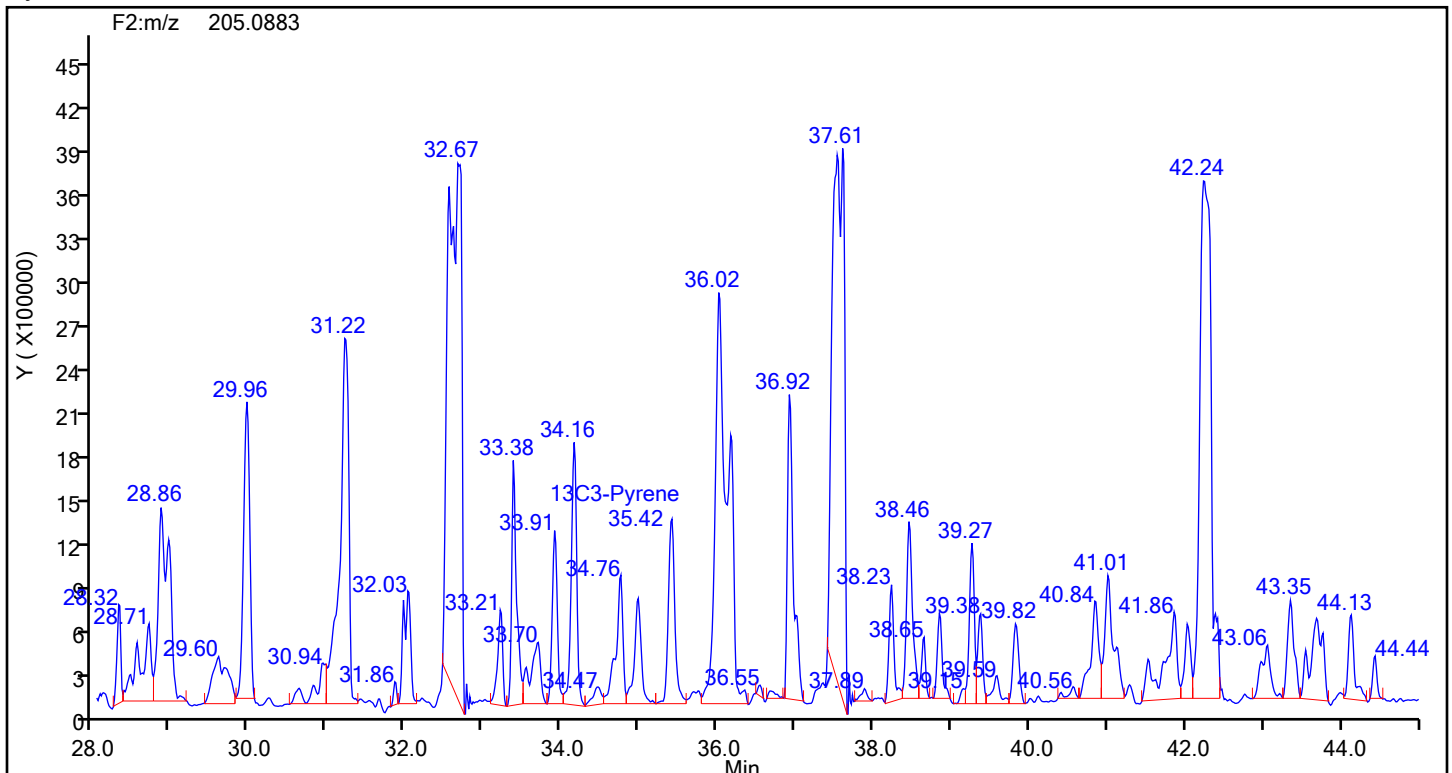
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



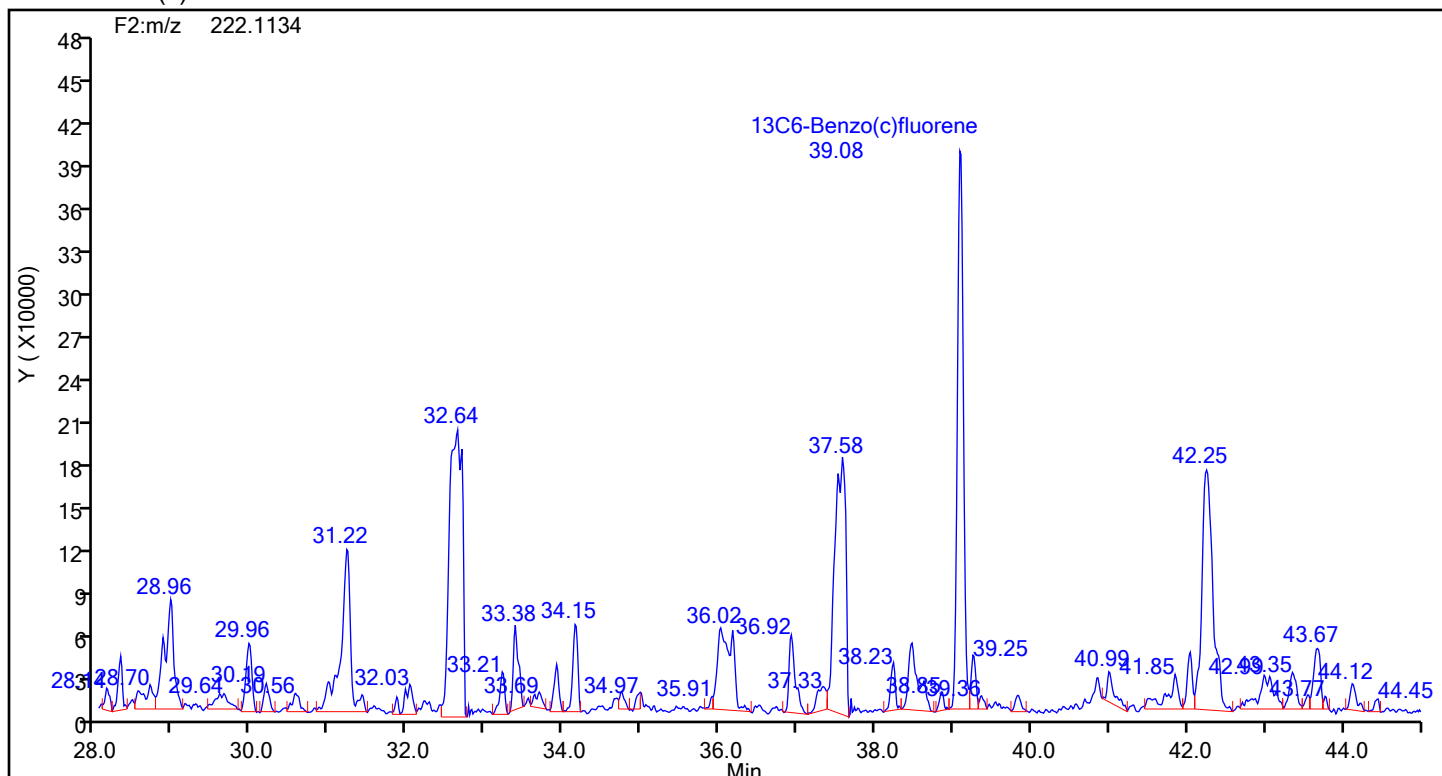
## Pyrene Standards



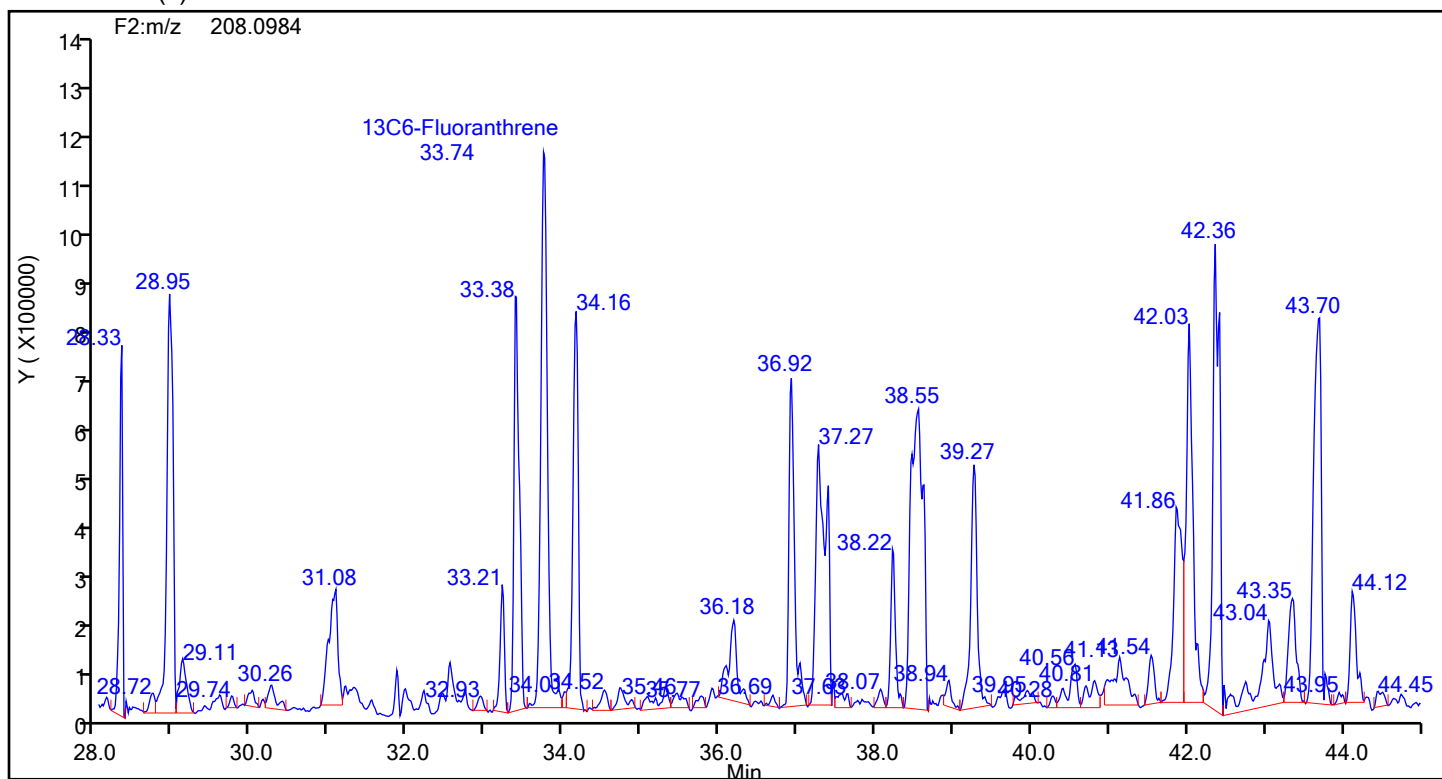
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



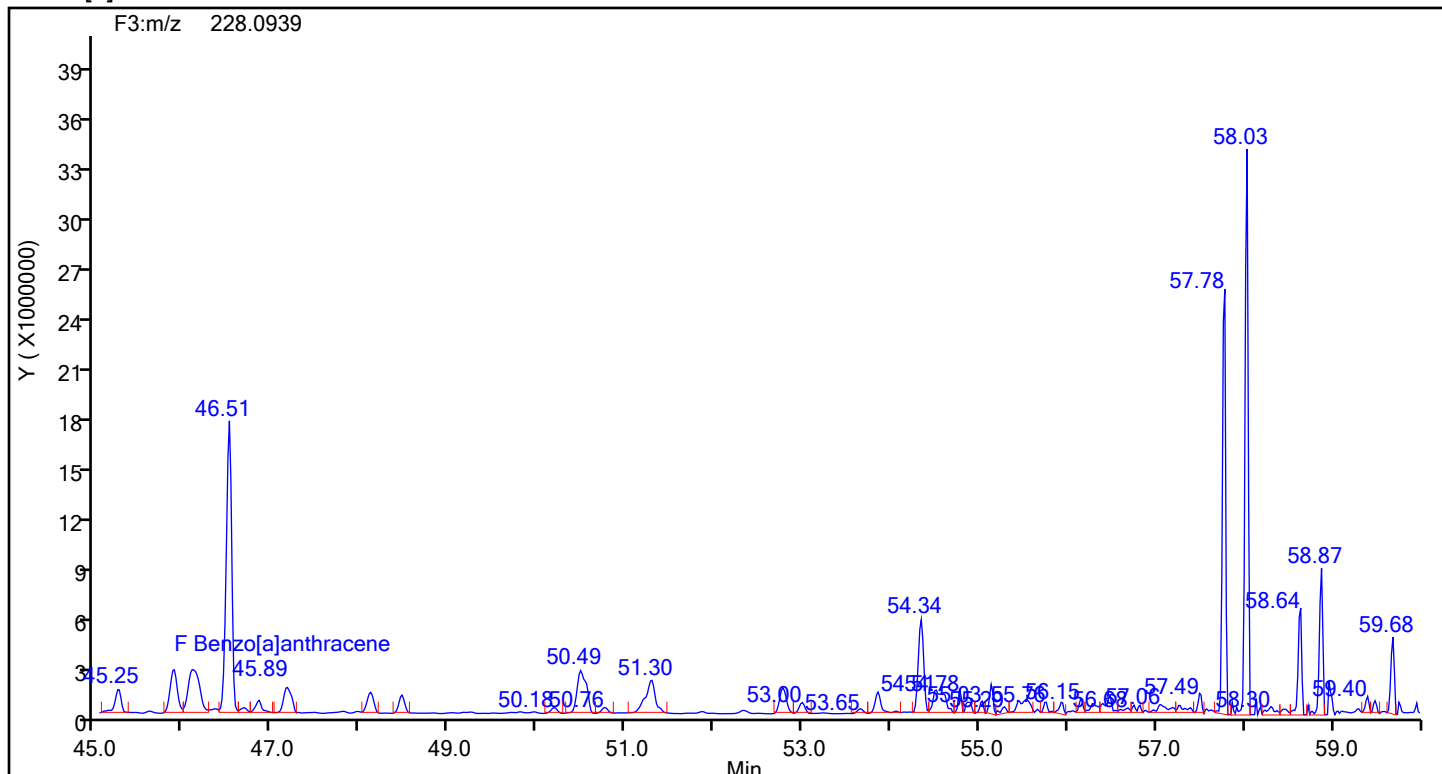
## 13C6-Benzo(c)fluorene Standards



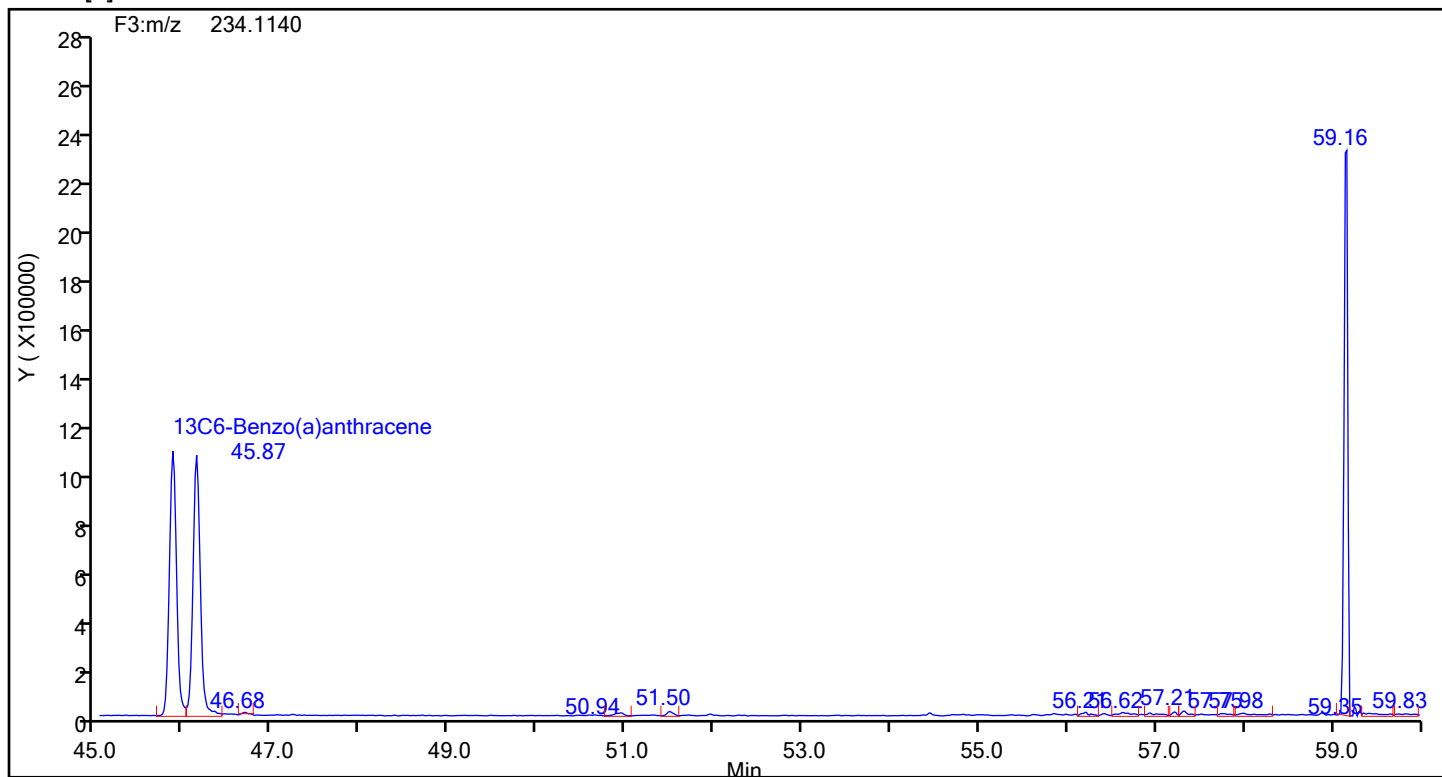
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



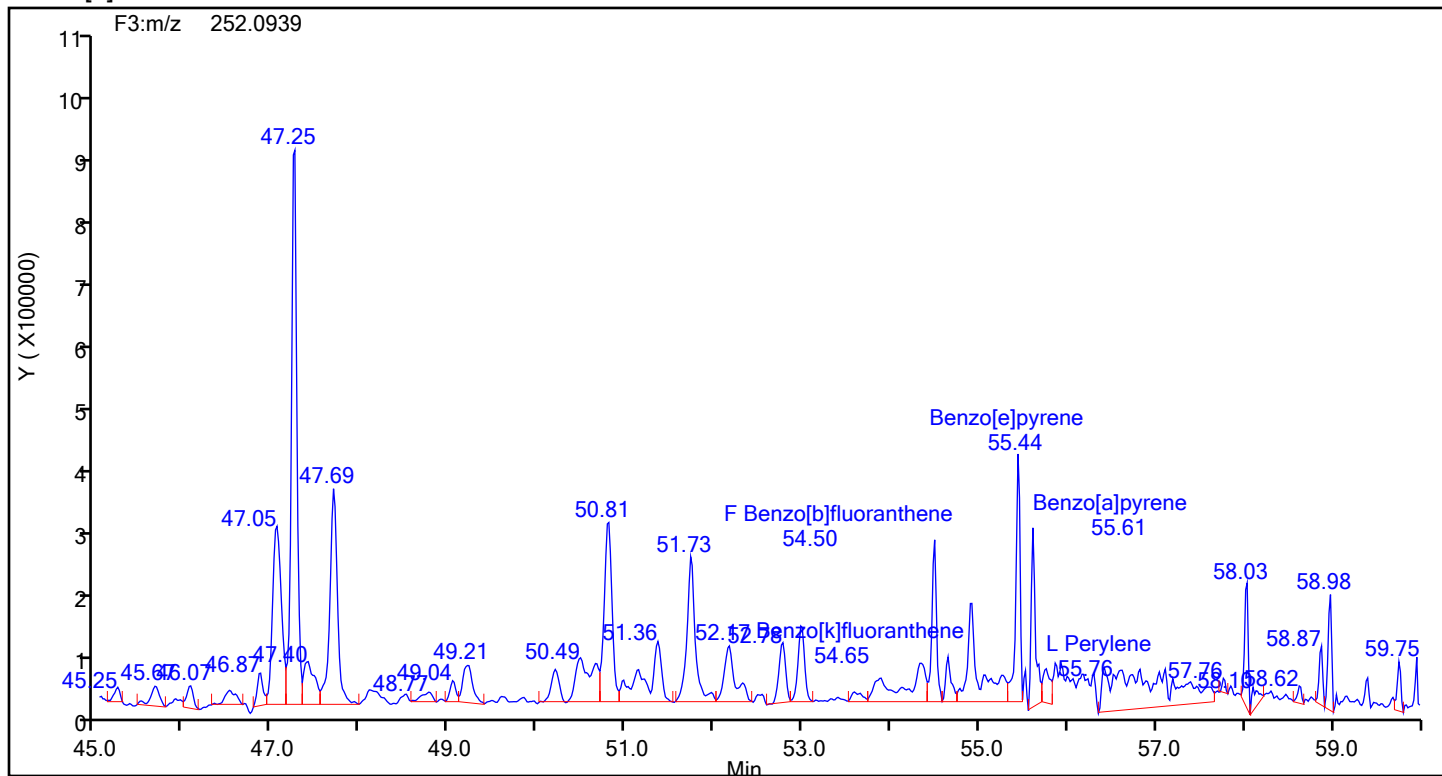
## Benzo[a]anthracene Standards



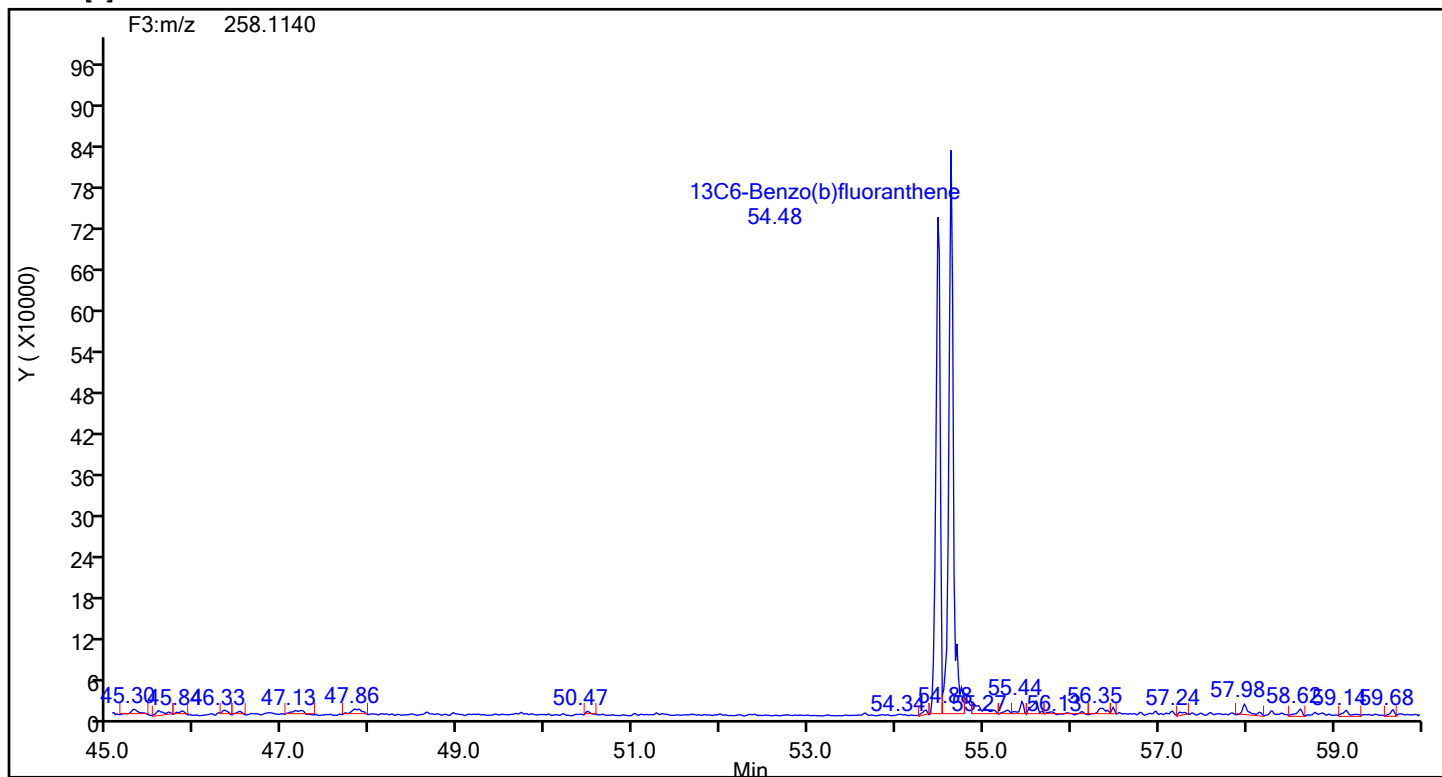
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



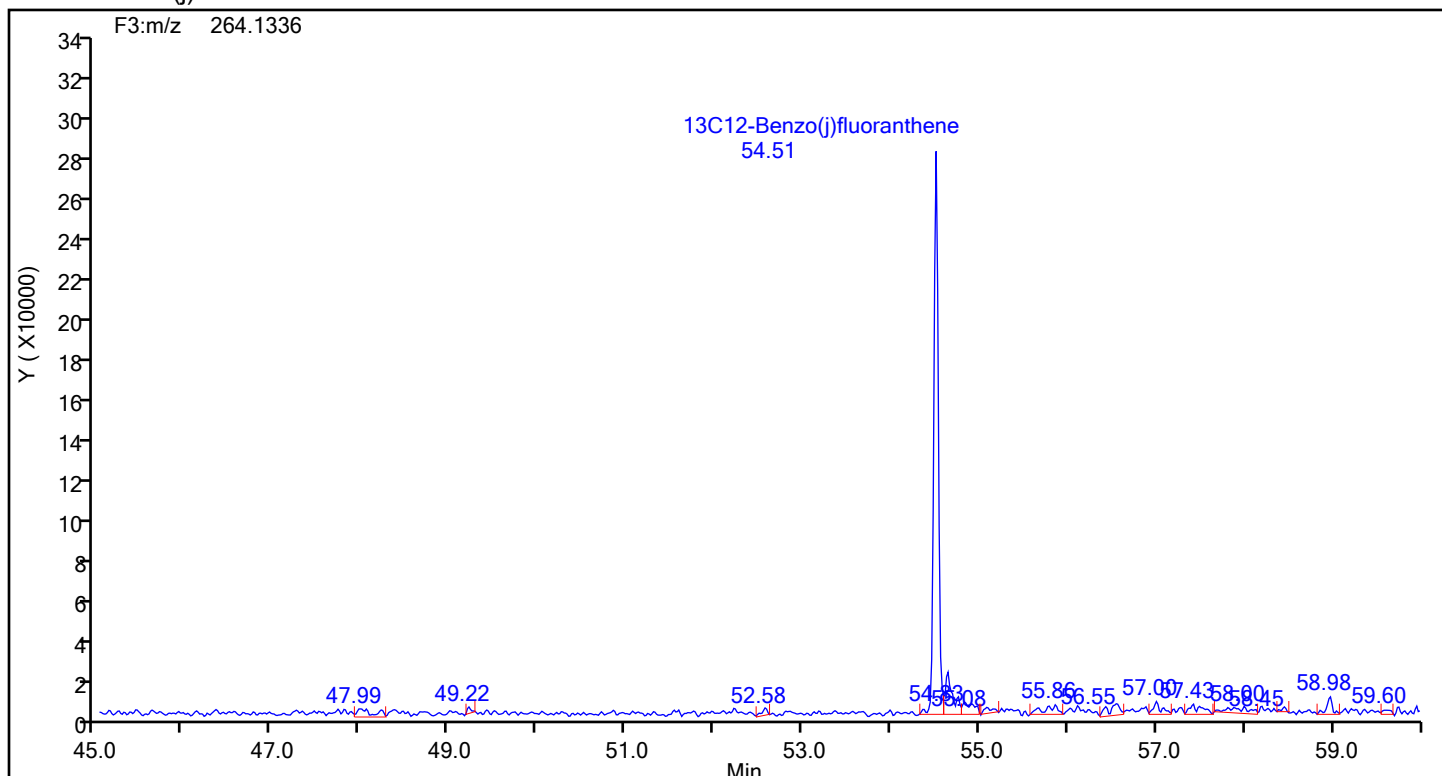
## Benzo[b]fluoranthene Standards



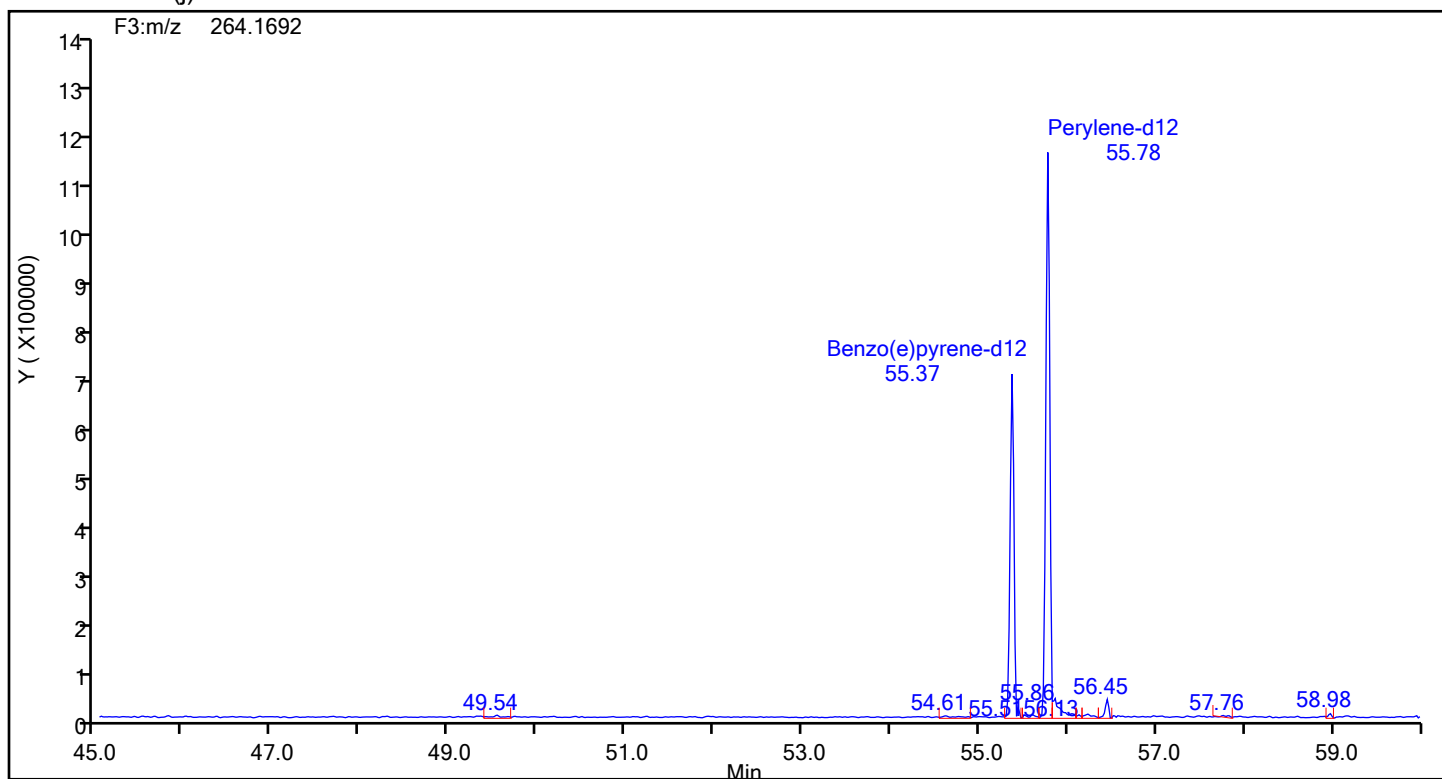
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



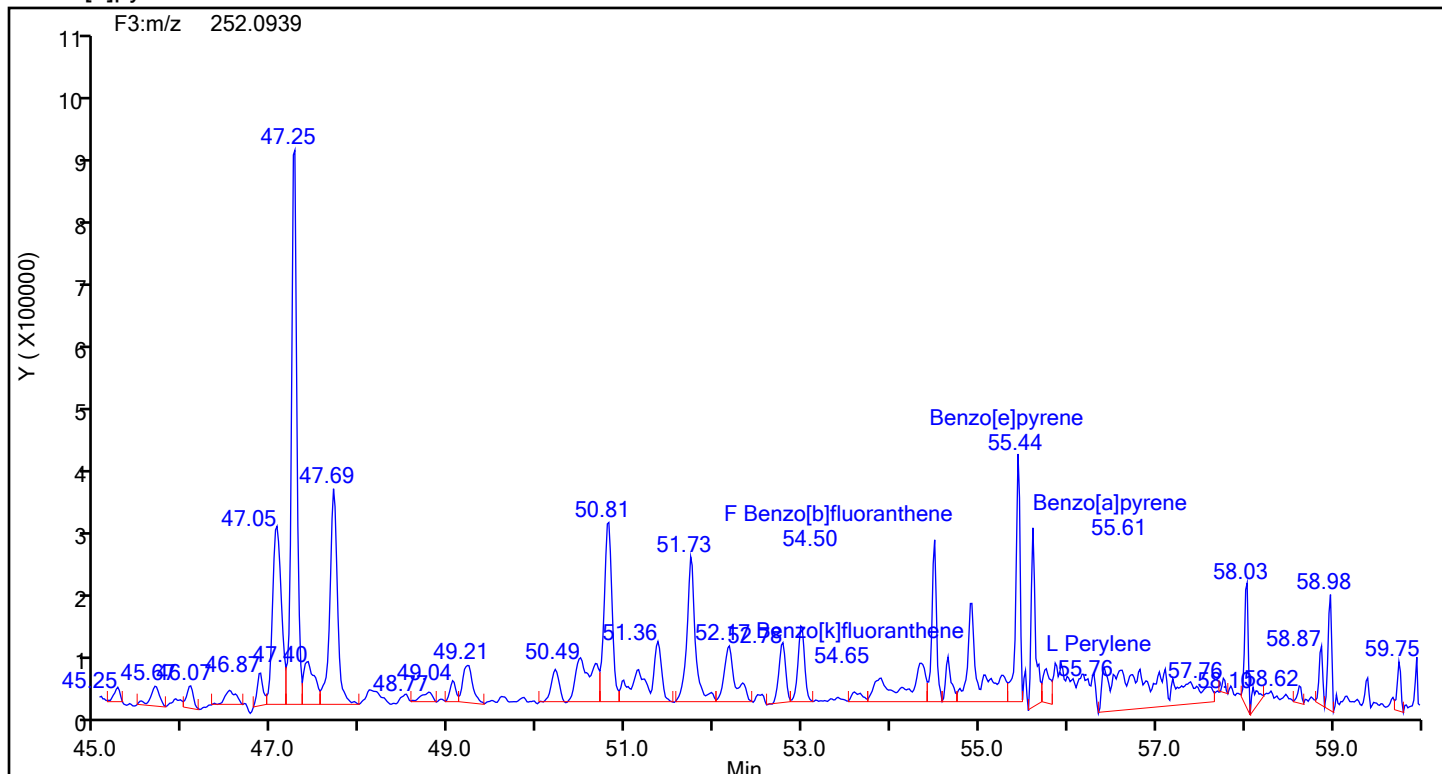
## 13C12-Benzo(j)fluoranthene Standards



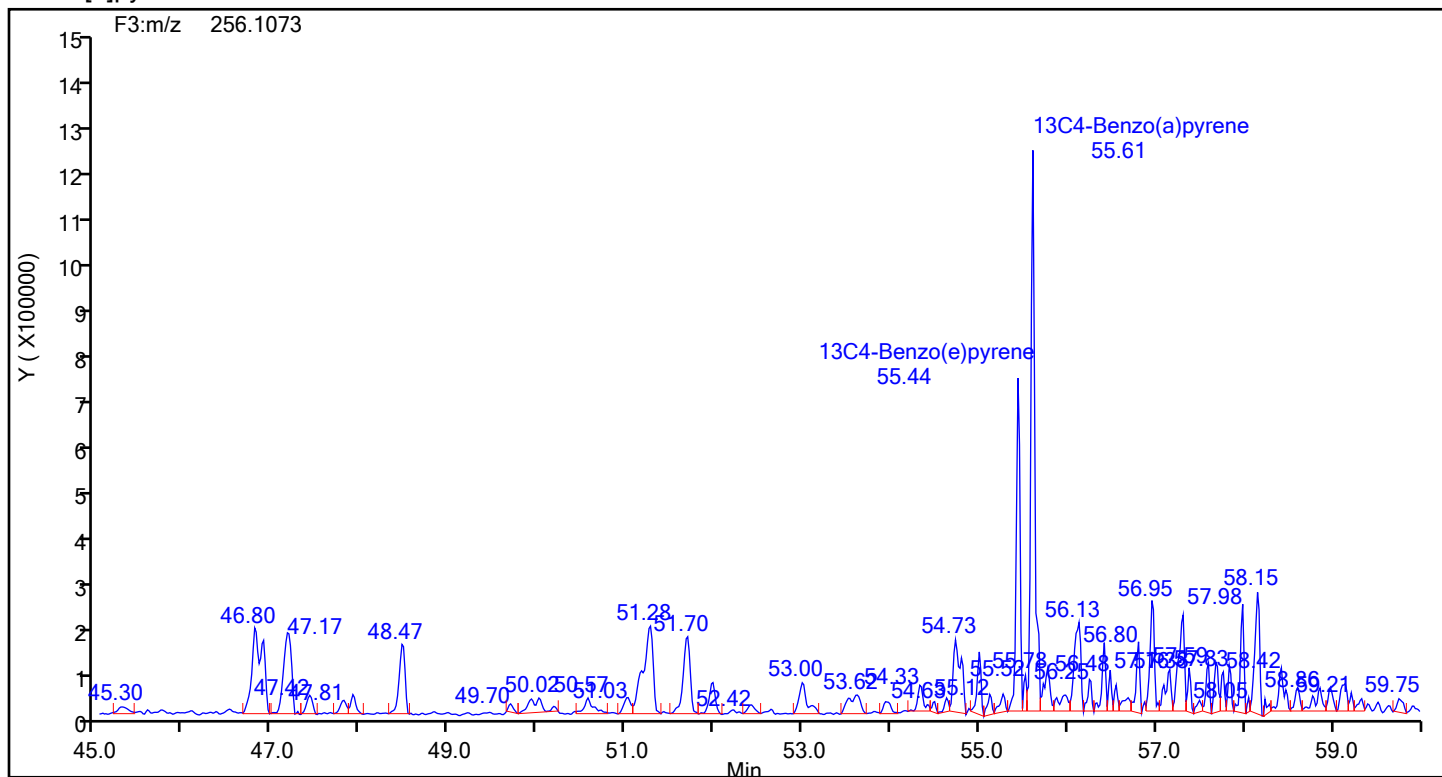
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



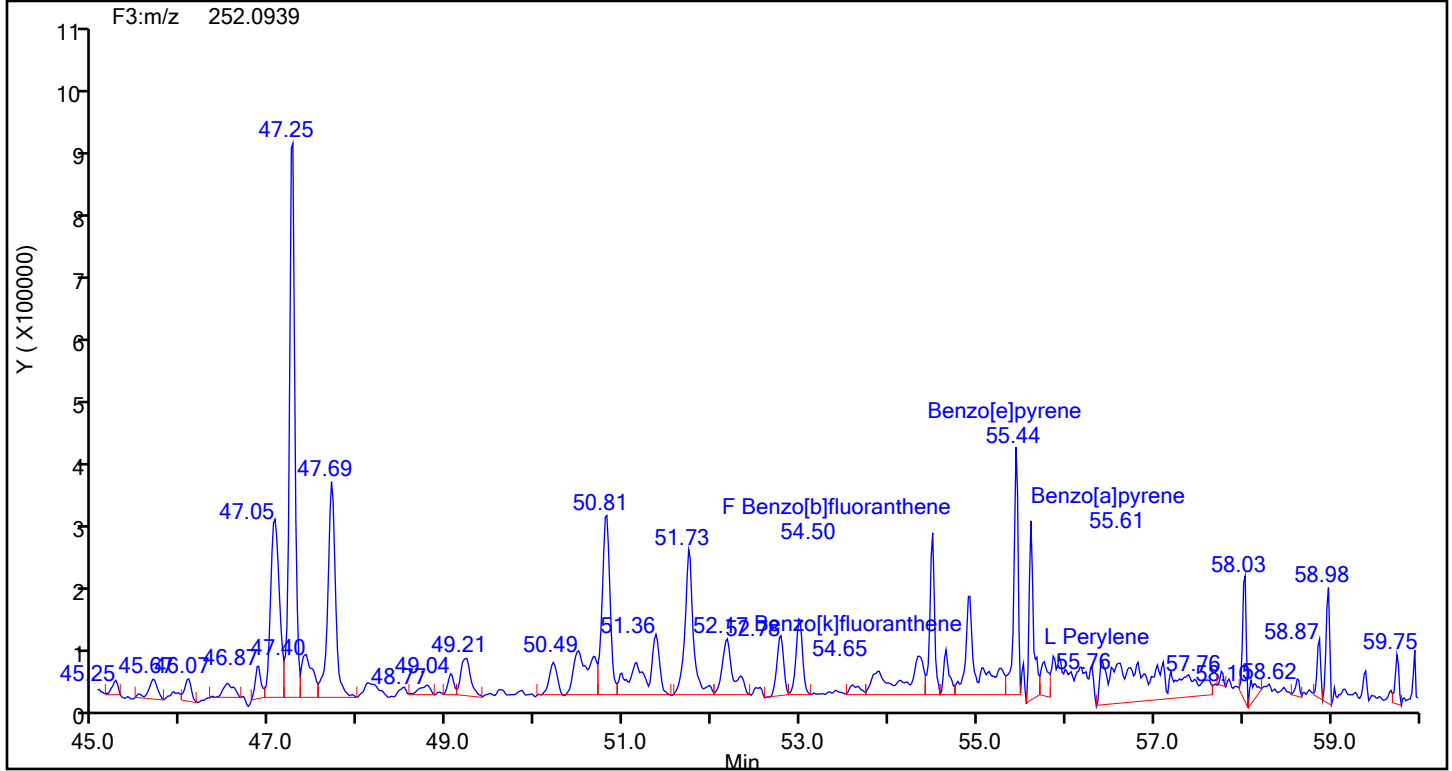
## Benzo[e]pyrene Standards



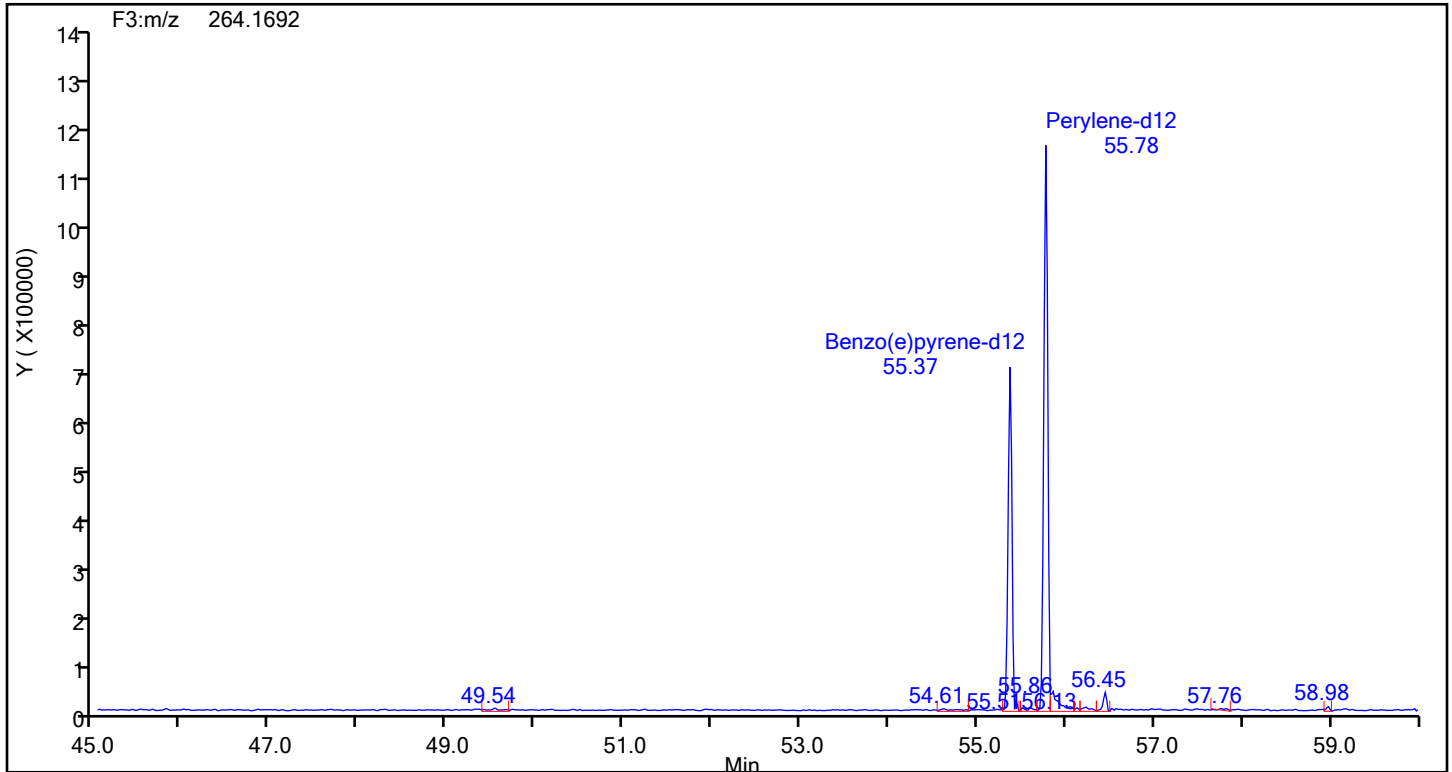
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Perylene



## Perylene Standards



## Eurofins Knoxville

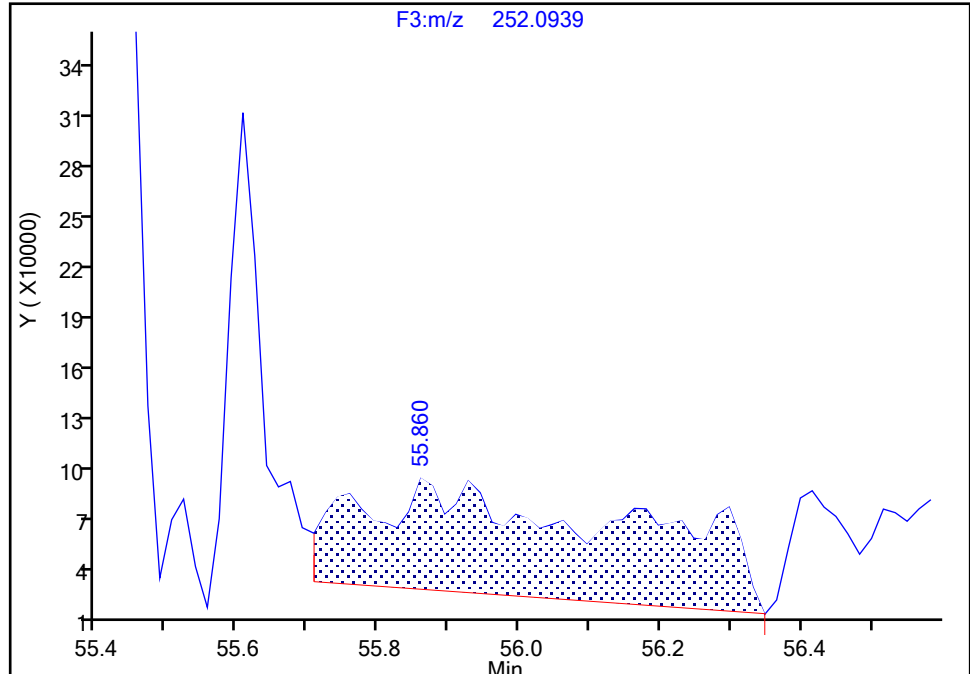
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-3-D Lab Sample ID: 140-36940-3  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Perylene, CAS: 198-55-0

Signal: 1

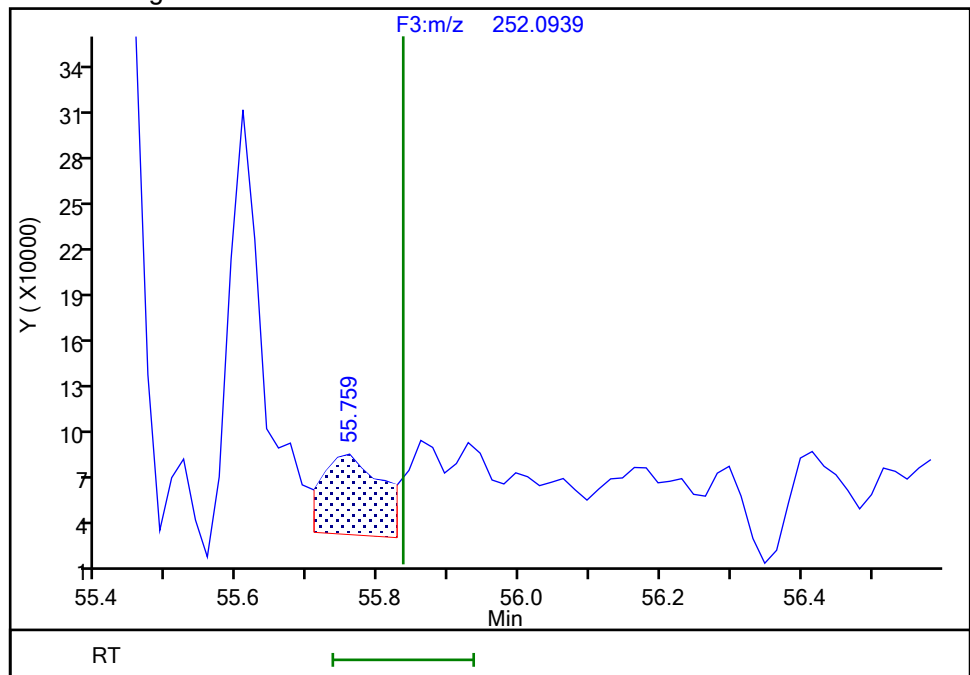
RT: 55.86  
Area: 1732561  
Amount: 3.519782  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.76  
Area: 322366  
Amount: 0.654902  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 17:10:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

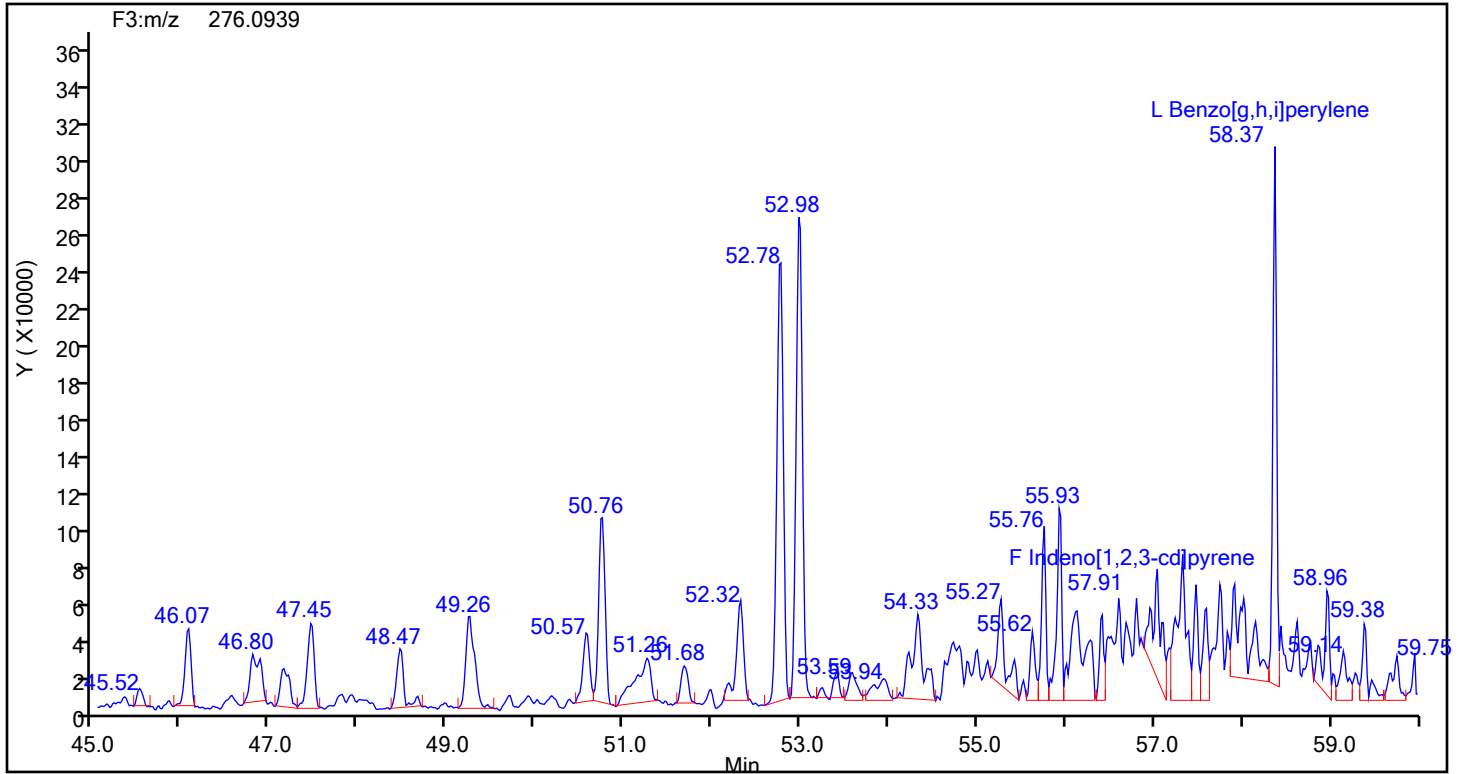
Audit Reason: Baseline



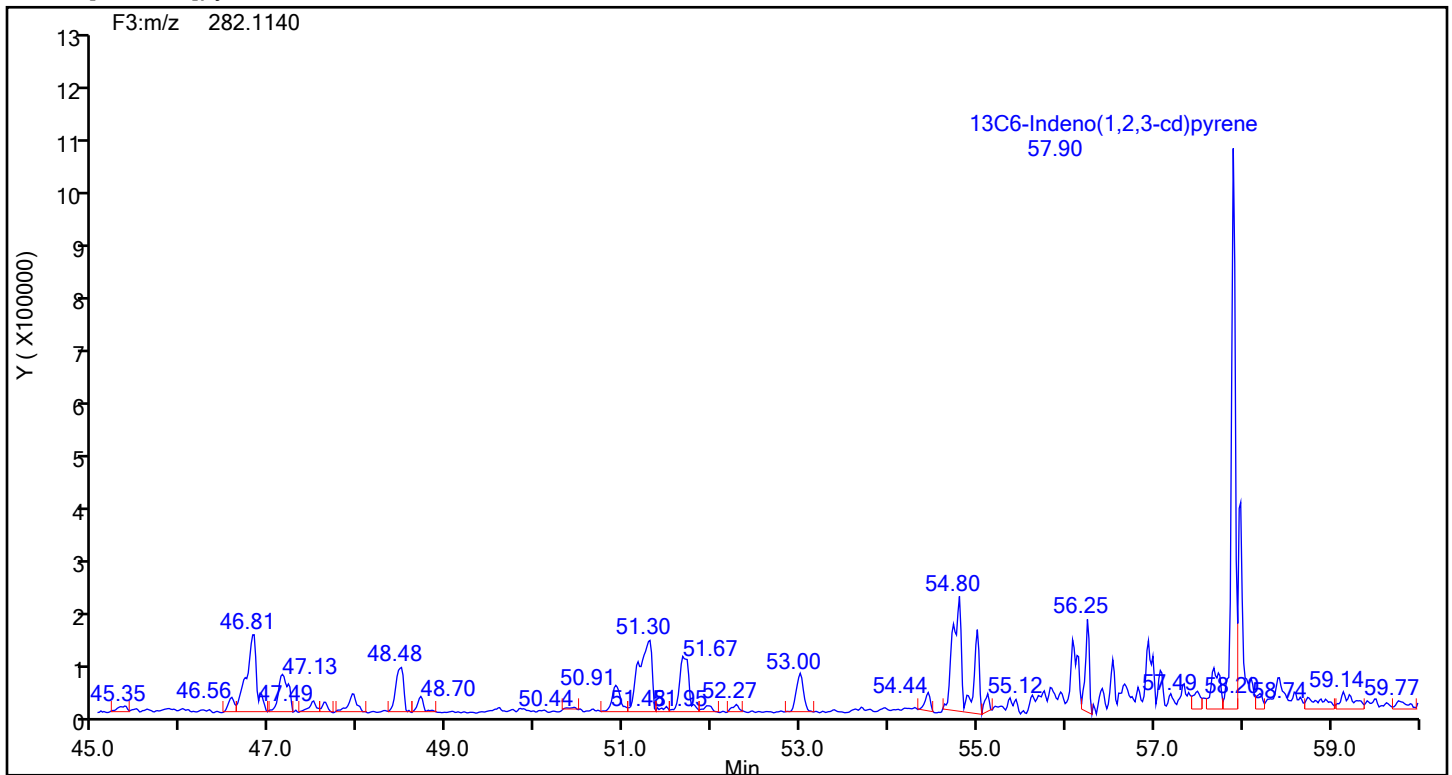
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

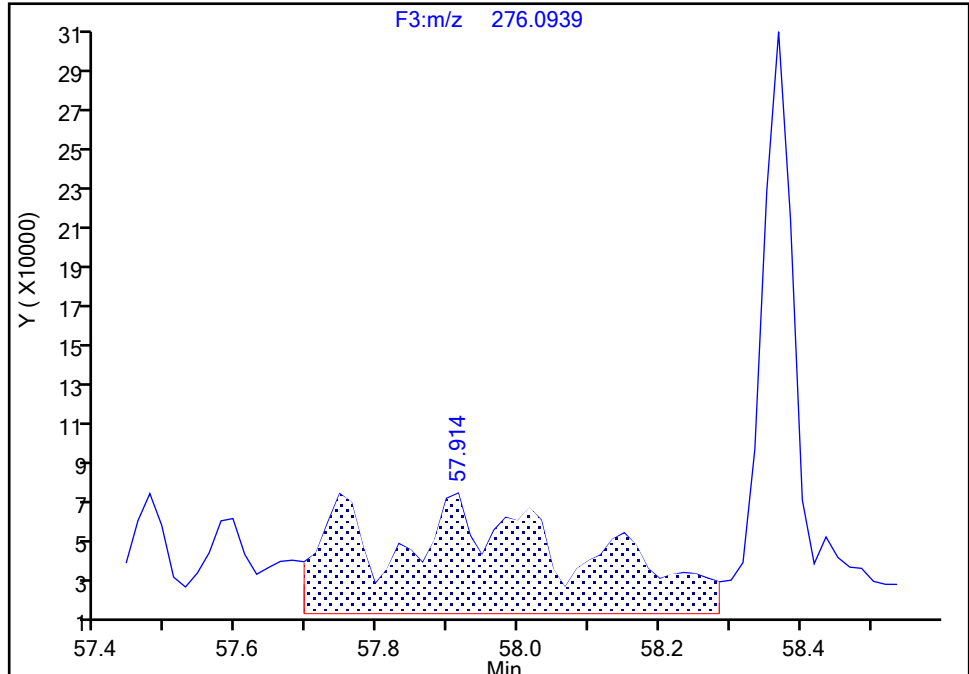
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Injection Date: 16-Jul-2024 21:12:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-3-D Lab Sample ID: 140-36940-3  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

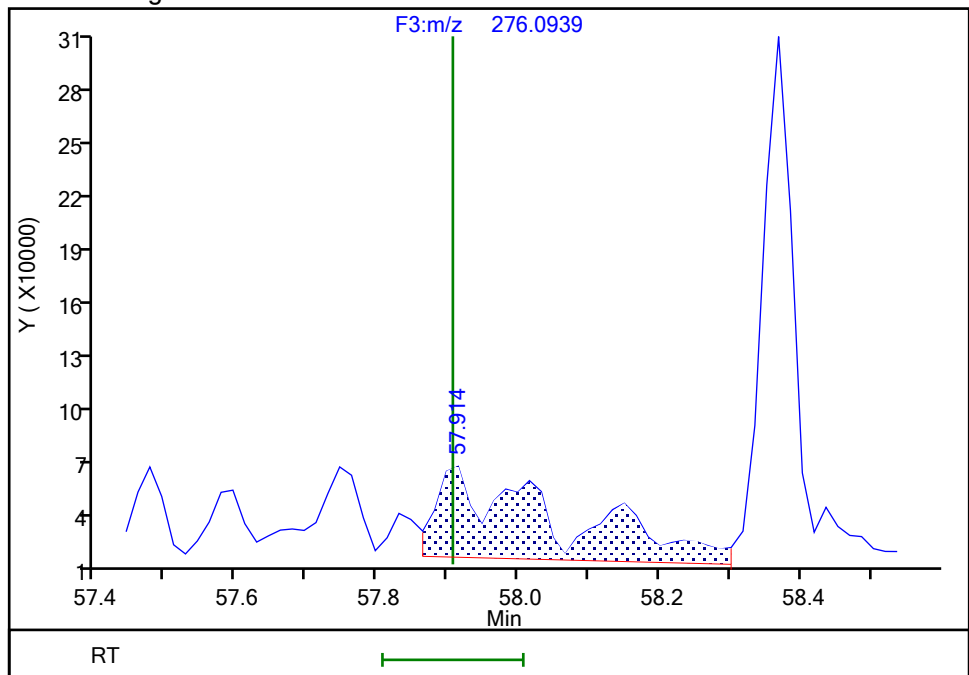
RT: 57.91  
Area: 1199603  
Amount: 3.336885  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.91  
Area: 592042  
Amount: 1.646858  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 17:11:29 -04:00:00 (UTC)

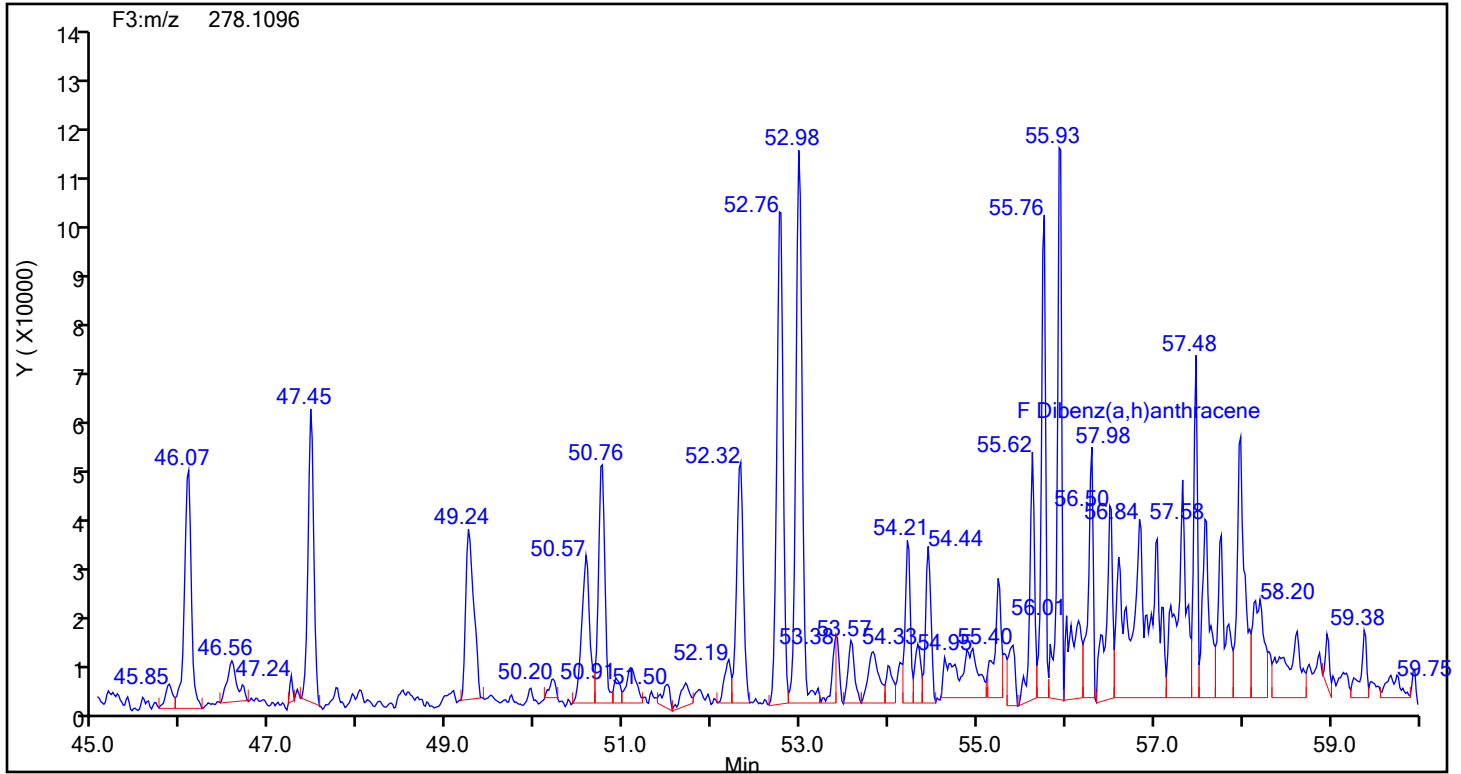
Audit Action: Manually Integrated

Audit Reason: Baseline

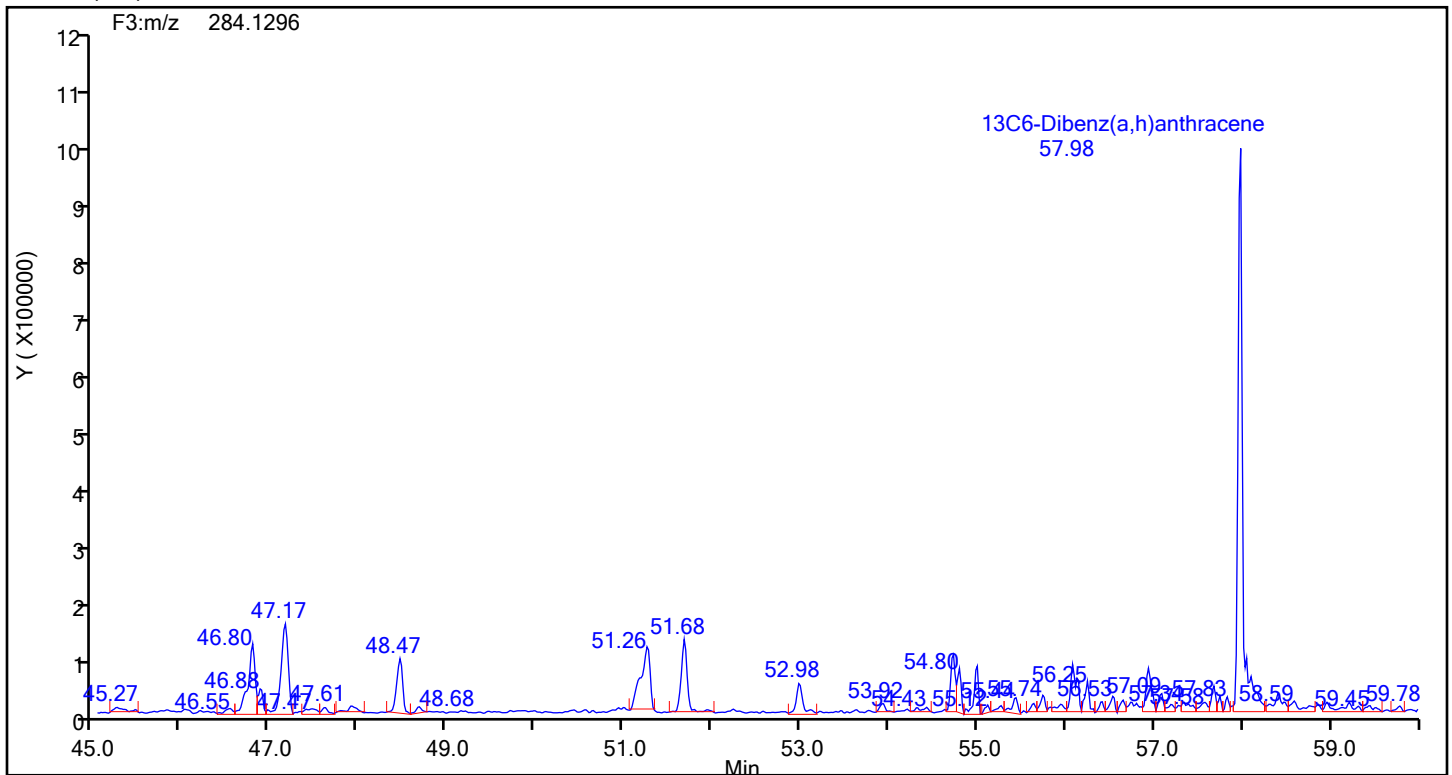
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



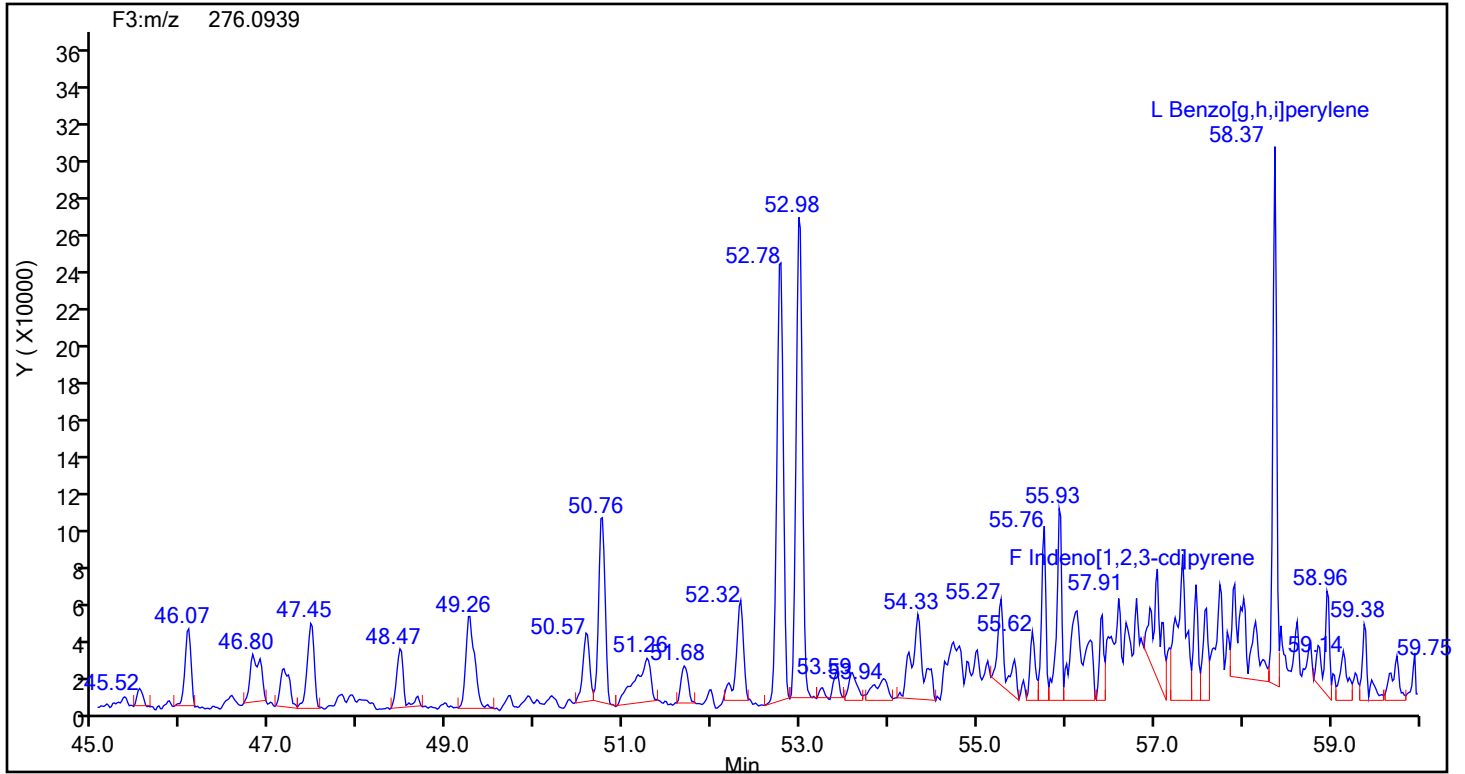
## Dibenz(a,h)anthracene Standards



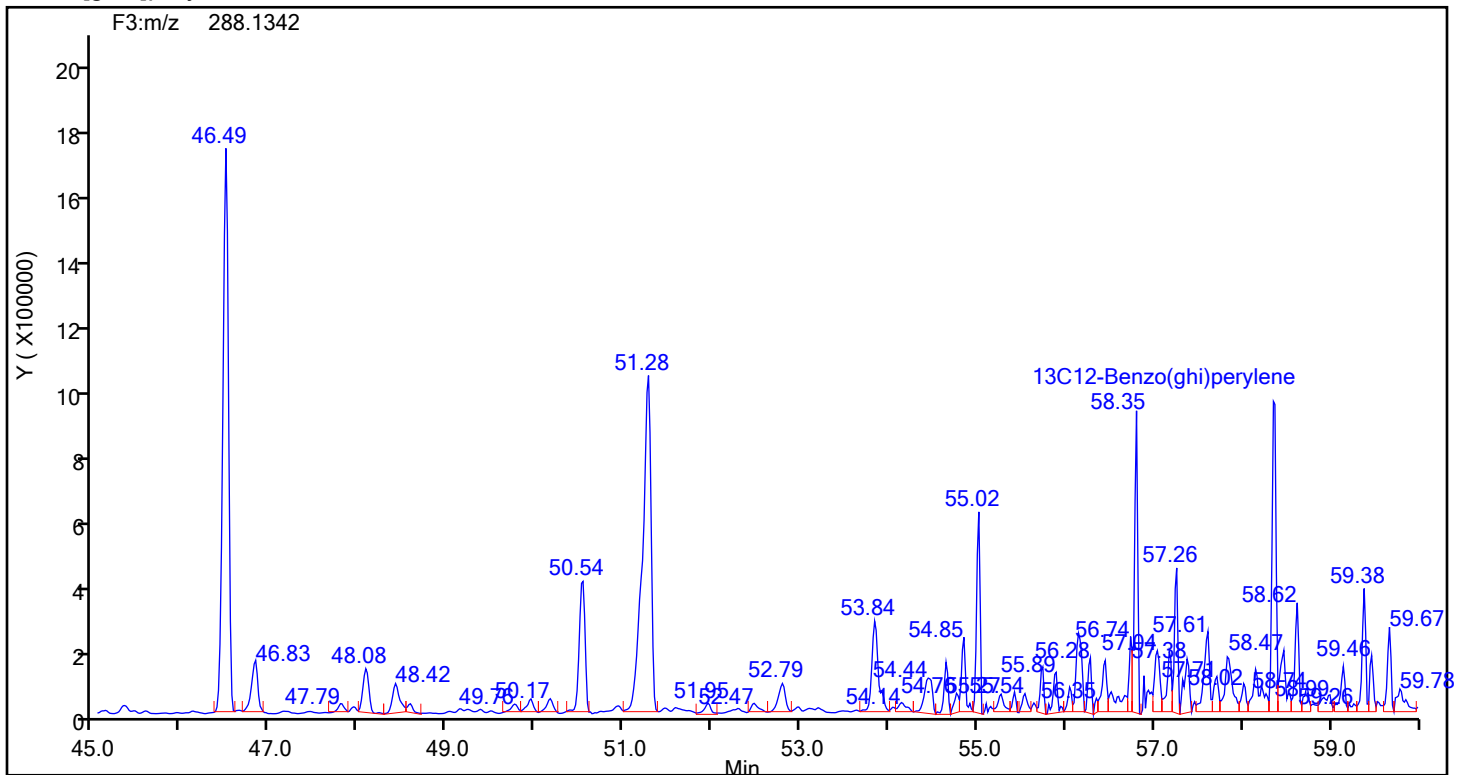
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88812 Sample Line#: 12  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



## Eurofins Knoxville

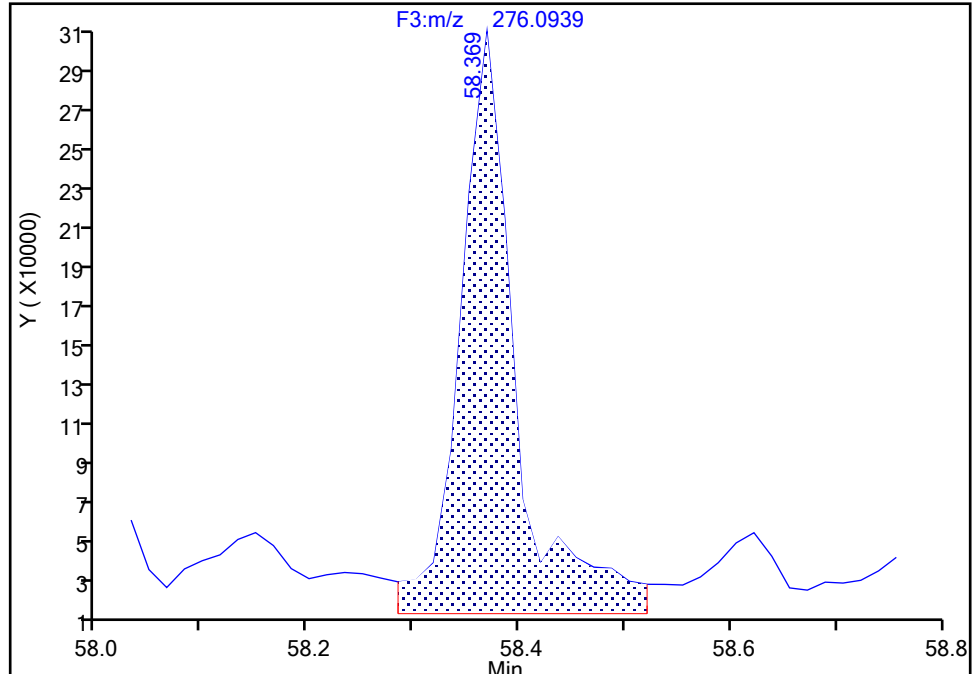
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Injection Date: 16-Jul-2024 21:12:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-3-D Lab Sample ID: 140-36940-3  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

**Benzo[g,h,i]perylene, CAS: 191-24-2**

Signal: 1

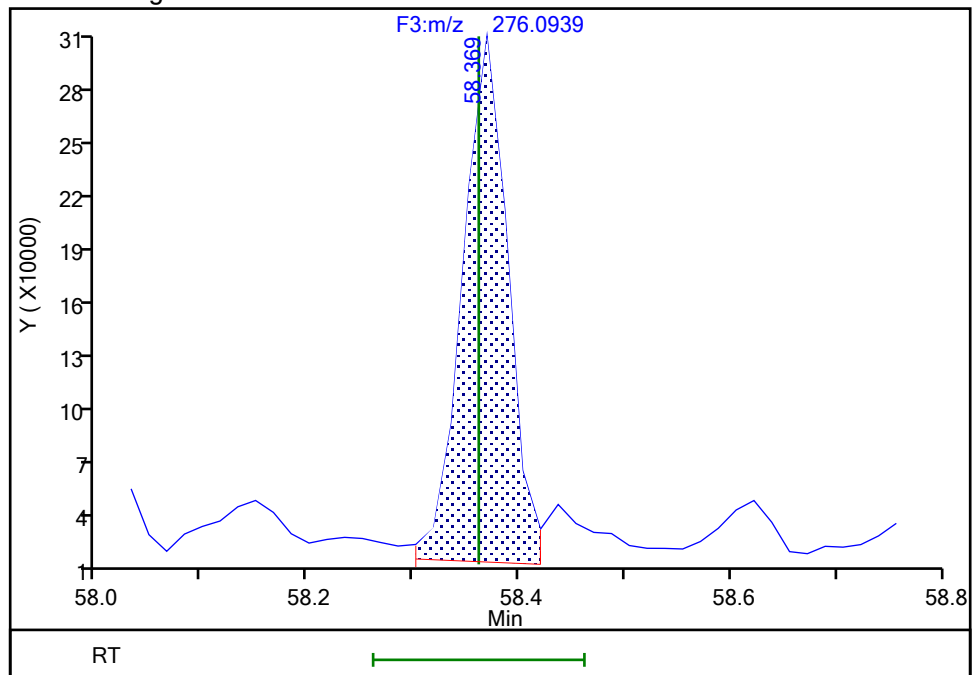
RT: 58.37  
Area: 1064479  
Amount: 2.835592  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.37  
Area: 854585  
Amount: 2.276470  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 17:11:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\140-36940-a-3-d.d  
Lims ID: 140-36940-A-3-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Sample Type: Client  
Inject. Date: 16-Jul-2024 21:12:00 ALS Bottle#: 0 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033522-012  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 17:12:52 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1682

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.8192	81.92
13C6-Benzo(c)fluorene	66.7	7.70	115.48
13C12-Benzo(j)fluoranthene	66.7	1.80	26.94

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-3  
3-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-3-d\_20240717032449  
Analysis Method: 23 Date Collected: 05/16/2024 11:45  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:30  
Sample wt/vol: 1(Sample) Date Analyzed: 07/17/2024 03:28  
Con. Extract Vol.: 30 (mL) Dilution Factor: 20  
Injection Volume: 1 (uL) GC Column: Rxi-5SilMS 25 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88831 Units: ng/Sample  
Preparation Batch No.: 87620 Instrument ID: Excalibur D3PAH DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	24900	B	1500	1500	16.6

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	60		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-3-d\_20240717032449.d  
Lims ID: 140-36940-A-3-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 03:28:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Sample Info:  
Misc. Info.: 140-0033530-007  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 16:09:25 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 13:28:00

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:22	1524629		3.3746	3.002	3.002	0.007588	0.007588	60.03	
Naphthalene	11:22	326437662		1.2893	830.4	830.4	0.5518	0.5518		
D 13C6-2-Methylnaphthalene	13:45	815013		1.6031	3.378	3.378	0.0116	0.0116	67.56	
2-Methylnaphthalene	13:45	176487316		1.2786	846.8	846.8	0.1038	0.1038		
D 13C6-Acenaphthylene	16:36	1100634		1.6520	4.426	4.426	0.0122	0.0122	88.53	
Acenaphthylene	16:36	2255621		2.3661	6.882	6.882	0.3481	0.3481		
* Acenaphthene-d10	17:11	376281		3.5E+04	2.500	2.500				
D 13C6-Acenaphthene	17:18	692592		0.9792	4.699	4.699	0.0148	0.0148	93.99	
Acenaphthene	17:18	7132930		1.2697	40.6	40.6	0.6186	0.6186		
D 13C6-Fluorene	19:34	617948		0.8898	4.614	4.614	0.0137	0.0137	92.28	
Fluorene	19:35	33557603		1.2532	216.7	216.7	0.0756	0.0756		
D 13C6-Phenanthrene	24:55	1002136		0.5724	260.1	260.1	0.3375	0.3375	5203	
Phenanthrene	24:57	84453145		1.1044	381.5	381.5	0.1770	0.1770		
\$ Anthracin-d10	25:09	73227		0.4257	25.6	25.6	0.5091	0.5091	5112	
D 13C6-Anthracene	25:16	804872		0.4523	264.4	264.4	0.4271	0.4271	5288	
Anthracene	25:16	17574574		1.3586	80.4	80.4	0.1869	0.1869		
D 13C6-Fluoranthrene	33:38						1.668	1.668		
Fluoranthrene	33:39						0.0	0.0		
* Pyrene-d10	35:15	16824		7.9E+04	2.500	2.500				
D 13C3-Pyrene	35:20						1.089	1.089		
Pyrene	35:21	186212		1.0652						
\$ 13C6-Benzo(c)fluorene	39:01						33.8	33.8		
D 13C6-Benzo(a)anthracene	45:50	1942884		1.5189	73.2	73.2	0.2113	0.2113	1463	
Benzo[a]anthracene	45:51	5510857		0.9739	14.6	14.6	0.4194	0.4194		
D 13C6-Chrysene	46:06	1923126		1.6287	67.5	67.5	0.1970	0.1970	1351	a
Chrysene	46:04	9401102		0.9815	24.9	24.9	0.4401	0.4401		
D 13C6-Benzo(b)fluoranthene	54:27	147842		1.4621	5.784	5.784	0.1101	0.1101	116	
Benzo[b]fluoranthene	54:28	139286		1.1249	4.188	4.188	0.1053	0.1053		
\$ 13C12-Benzo(j)fluoranthene	54:30	21998		1.3558	0.9281	0.9281	0.2068	0.2068	27.84	
D 13C6-Benzo(k)fluoranthene	54:36	140030		1.7507	4.575	4.575	0.0919	0.0919	91.51	
Benzo[k]fluoranthene	54:42	17165		1.1271	0.5438	0.5438	0.1396	0.1396		
* Benzo(e)pyrene-d12	55:22	43704		5.7E+04	2.500	2.500				
D 13C4-Benzo(e)pyrene	55:26	169352		1.6368	5.918	5.918	0.3213	0.3213	118	
Benzo[e]pyrene	55:26	173959		1.0013	5.130	5.130	0.0863	0.0863		



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:35	214714		1.5508	7.920	7.920	0.3392	0.3392	158	
Benzo[a]pyrene	55:35	58592		1.1130	1.226	1.226	0.0949	0.0949		
D Perylene-d12	55:46	74133		1.1917	3.559	3.559	0.2834	0.2834	71.17	
Perylene	55:50	31913		1.4307	1.504	1.504	0.1865	0.1865		
D 13C6-Indeno(1,2,3-cd)pyrene	57:54						0.5187	0.5187		
Indeno[1,2,3-cd]pyrene	57:53	131151		1.1249						
D 13C6-Dibenz(a,h)anthracene	57:58	15089		1.0553	0.8179	0.8179	0.4344	0.4344	16.36	
Dibenz(a,h)anthracene	57:58						0.1494	0.1494		
D 13C12-Benzo(ghi)perylene	58:21						0.0628	0.0628		
Benzo[g,h,i]perylene	58:16	67853		1.2838						

### QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-3-d\_20240717032449.d  
 Lims ID: 140-36940-A-3-D  
 Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
 Sample Type: Client  
 Inject. Date: 17-Jul-2024 03:28:00 ALS Bottle#: 0 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 20.0000  
 Sample Info:  
 Misc. Info.: 140-0033530-007  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAAH ICAL  
 Last Update: 17-Jul-2024 16:09:25 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 13:28:00

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:22	11:23	-2	0.661	1524629	577939	521	1302	1109		
Naphthalene											
128.0626	11:22	11:23	-2	1.000	326437662	86471248	32890	82225	2629		
13C6-2-Methylnaphthalene											
148.0984	13:45	13:45	-1	0.801	815013	383168	377	942	1016		
2-Methylnaphthalene											
142.0783	13:45	13:46	-1	1.000	176487316	83783255	4067	10167	20601		
13C6-Acenaphthylene											
158.0828	16:36	16:36	-1	0.967	1100634	384891	411	1027	936		
Acenaphthylene											
152.0626	16:36	16:36	-1	1.000	2255621	869595	15809	39522	55		
Acenaphthene-d10											
164.1404	17:11	17:11	-1		376281	127122	73	182	1741		
13C6-Acenaphthene											
160.0984	17:18	17:17	-1	1.007	692592	239888	294	735	816		
Acenaphthene											
154.0783	17:18	17:20	-1	1.001	7132930	2368040	15073	37682	157		
13C6-Fluorene											
172.0984	19:34	19:33	-1	1.139	617948	201435	248	620	812		
Fluorene											
166.0783	19:35	19:36	-1	1.001	33557603	10292302	1527	3817	6740		
13C6-Phenanthrene											
184.0984	24:55	24:56	-1	0.707	1002136	229497	115	287	1996		E
Phenanthrene											
178.0783	24:57	24:54	1	1.001	84453145	18898202	3589	8972	5266		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:09	25:08	1	0.714	73227	16786	129	322	130		
13C6-Anthracene											
184.0984	25:16	25:15	0	0.717	804872	176707	115	287	1537		E
Anthracene											
178.0783	25:16	25:15	1	1.000	17574574	3241233	3589	8972	903		
13C6-Fluoranthrene											
208.0984	33:42						1189	2972			
Fluoranthene											
202.0783	33:39						295	737			
Pyrene-d10											
212.1404	35:15	35:11	4		16824	3714	387	967	10		
13C3-Pyrene											
205.0883	35:24						875	2187			
Pyrene											
202.0783	35:21	35:19	2	1.000	186212	35219	295	737	119		
13C6-Benzo(c)fluorene											
222.1134	39:01						10305	25762			
13C6-Benzo(a)anthracene											
234.1140	45:50	45:49	-1	1.300	1942884	361895	532	1330	680		
Benzo[a]anthracene											
228.0939	45:51	45:47	0	1.000	5510857	1014407	11824	29560	86		
13C6-Chrysene											a
234.1140	46:06	46:06	-1	1.308	1923126	342195	532	1330	643		a
Chrysene											
228.0939	46:04	46:03	-3	0.999	9401102	982140	11824	29560	83		
13C6-Benzo(b)fluoranthene											
258.1140	54:27	54:28	-2	0.984	147842	39059	267	667	146		
Benzo[b]fluoranthene											
252.0939	54:28	54:31	-1	1.000	139286	27583	370	925	75		
13C12-Benzo(j)fluoranthene											
264.1336	54:30	54:30	-1	0.984	21998	5134	465	1162	11		
13C6-Benzo(k)fluoranthene											
258.1140	54:36	54:35	0	0.986	140030	29393	267	667	110		
Benzo[k]fluoranthene											
252.0939	54:42	54:40	5	1.002	17165	2473	370	925	7		
Benzo(e)pyrene-d12											
264.1692	55:22	55:22	-1		43704	10362	560	1400	19		
13C4-Benzo(e)pyrene											
256.1073	55:26	55:29	-1	1.001	169352	53497	872	2180	61		
Benzo[e]pyrene											
252.0939	55:26	55:26	-2	1.000	173959	47448	370	925	128		
13C4-Benzo(a)pyrene											
256.1073	55:35	55:43	-1	1.004	214714	43799	872	2180	50		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:35	55:43	-1	1.000	58592	13932	370	925	38		
Perylene-d12											
264.1692	55:46	55:44	0	1.007	74133	17338	560	1400	31		
Perylene											
252.0939	55:50	55:50	0	1.001	31913	3691	370	925	10		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:53						879	2197			
Indeno[1,2,3-cd]pyrene											
276.0939	57:53	57:58	-1	1.000	131151	19538	862	2155	23		
13C6-Dibenz(a,h)anthracene											
284.1296	57:58	57:58	0	1.047	15089	4288	760	1900	6		
Dibenz(a,h)anthracene											
278.1096	58:02						58	145			
13C12-Benzo(ghi)perylene											
288.1342	58:20						133	332			
Benzo[g,h,i]perylene											
276.0939	58:16	58:25	-5	1.000	67853	12588	862	2155	15		

### QC Flag Legend

Processing Flags

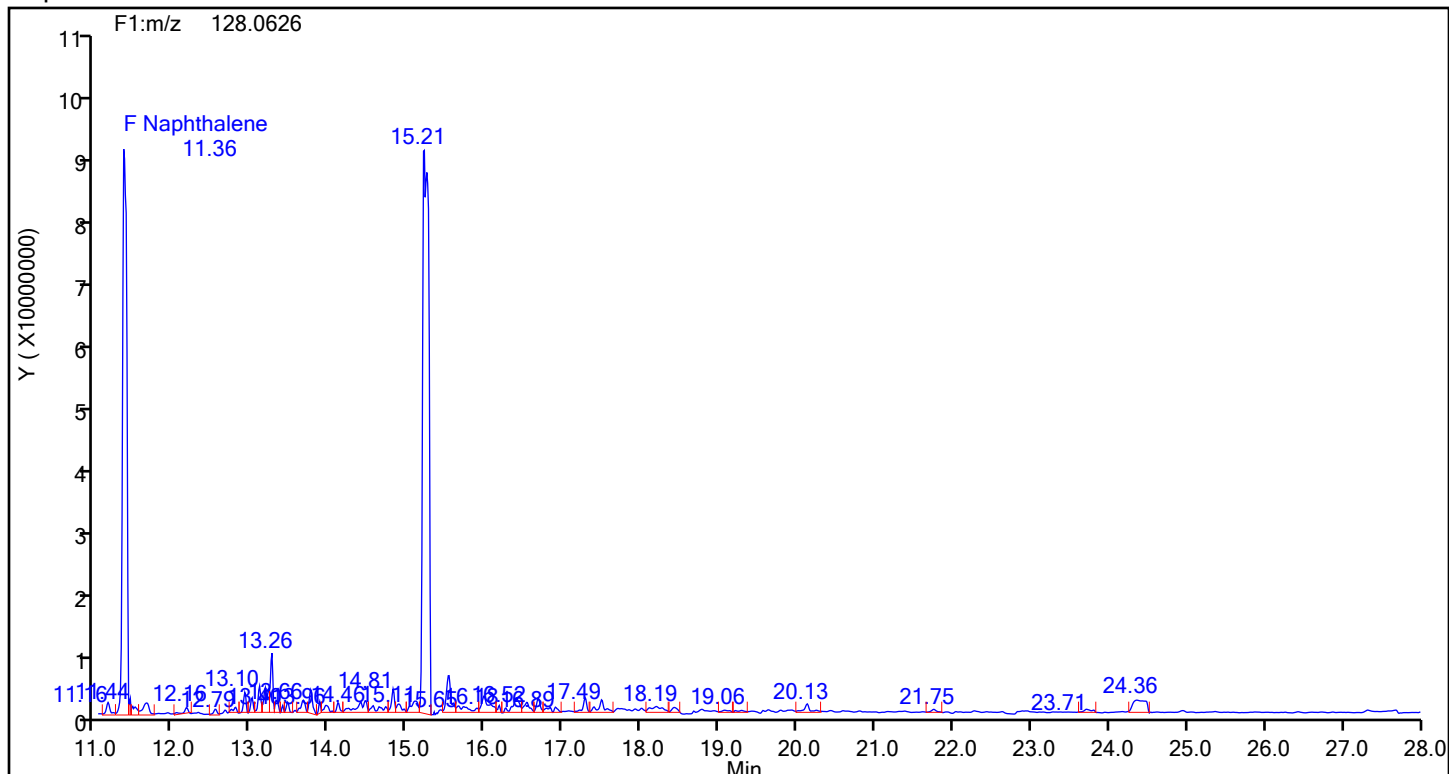
Review Flags

a - User Assigned ID

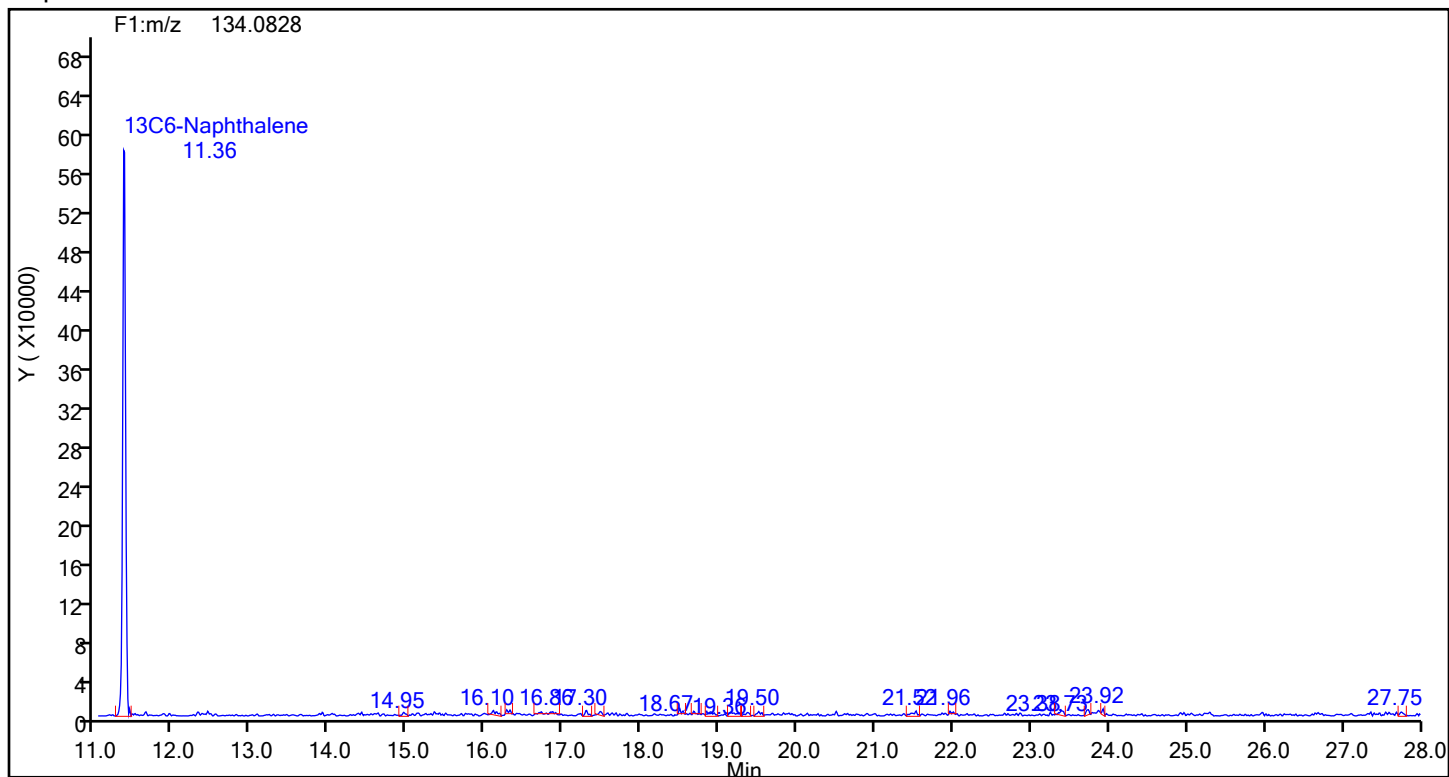
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-3-d\_20240717032449.d  
Injection Date: 17-Jul-2024 03:28:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88831 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



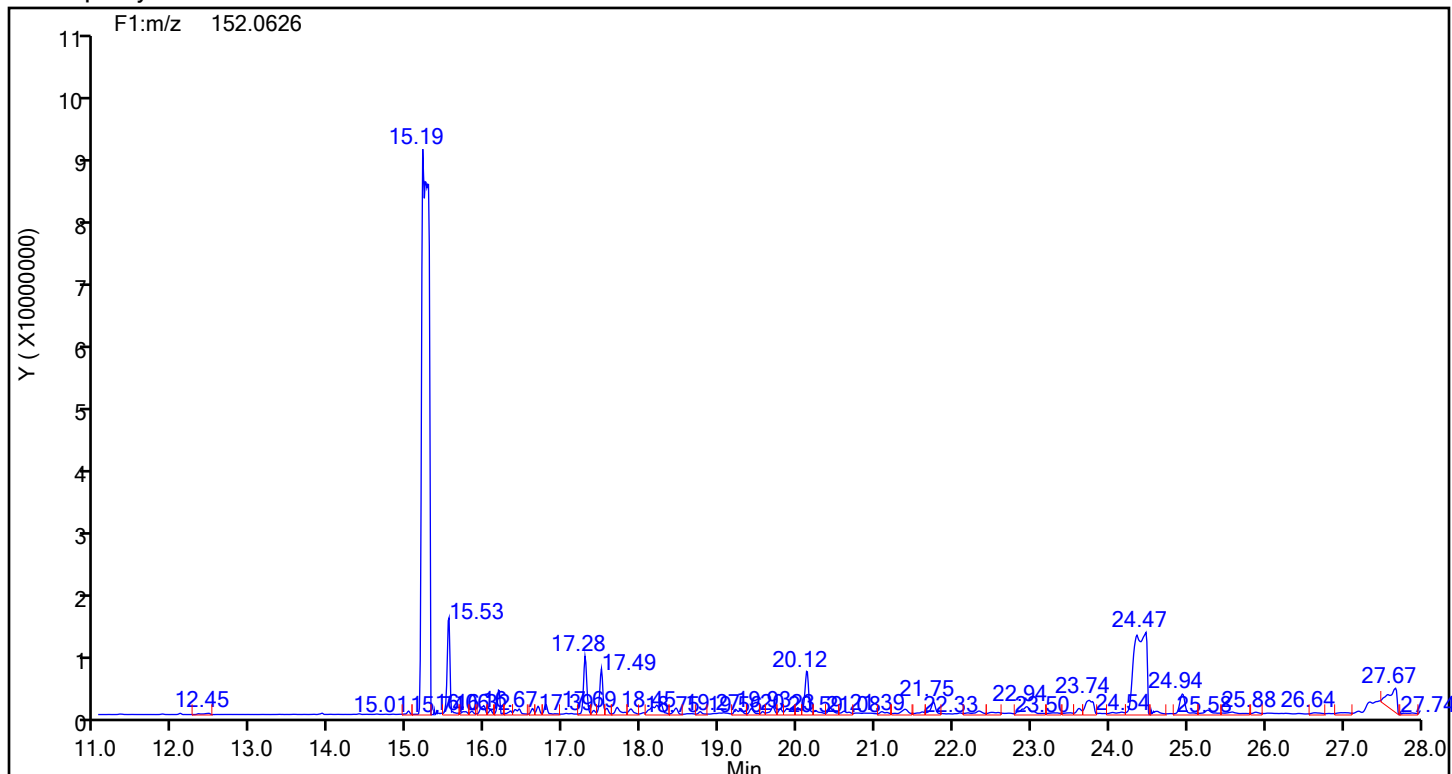
## Naphthalene Standards



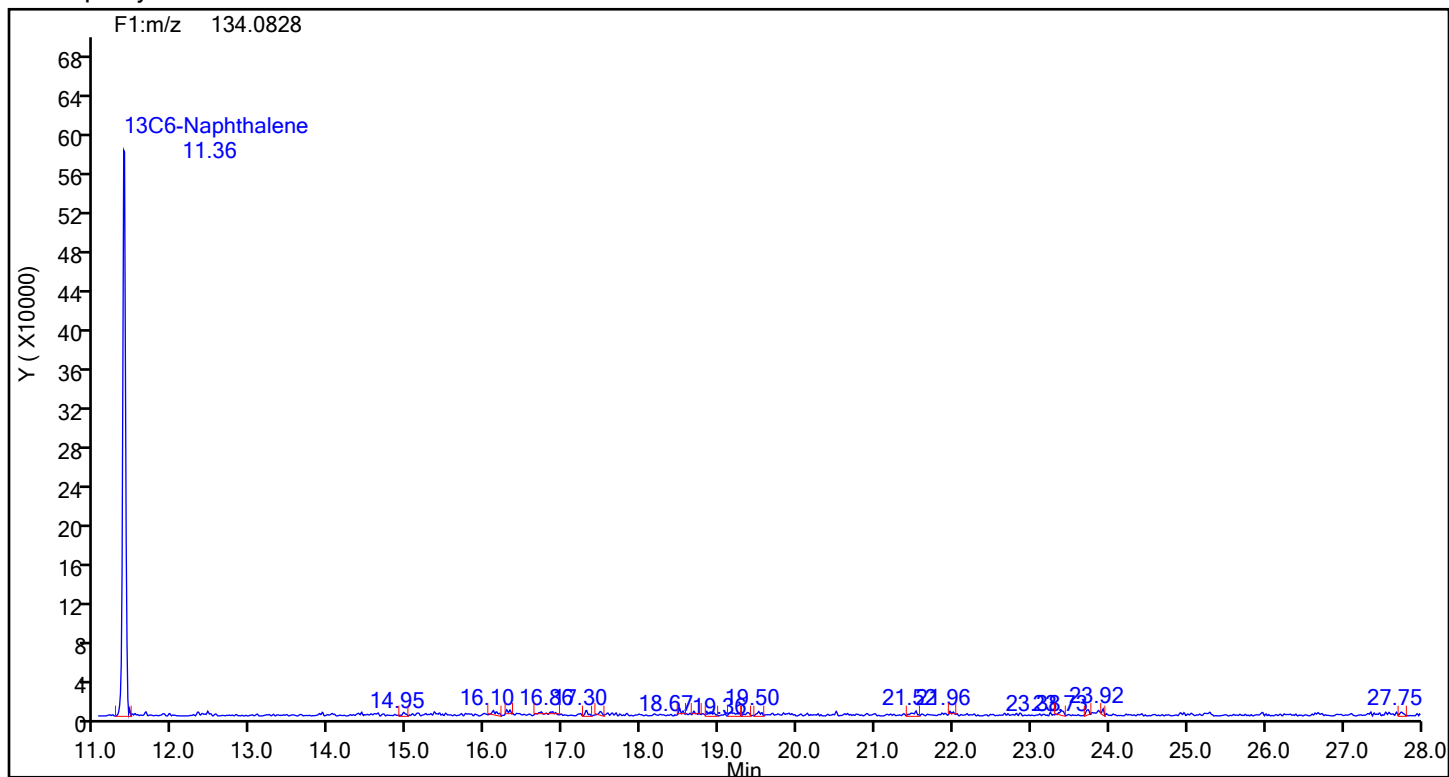
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-3-d\_20240717032449.d  
Injection Date: 17-Jul-2024 03:28:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88831 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene

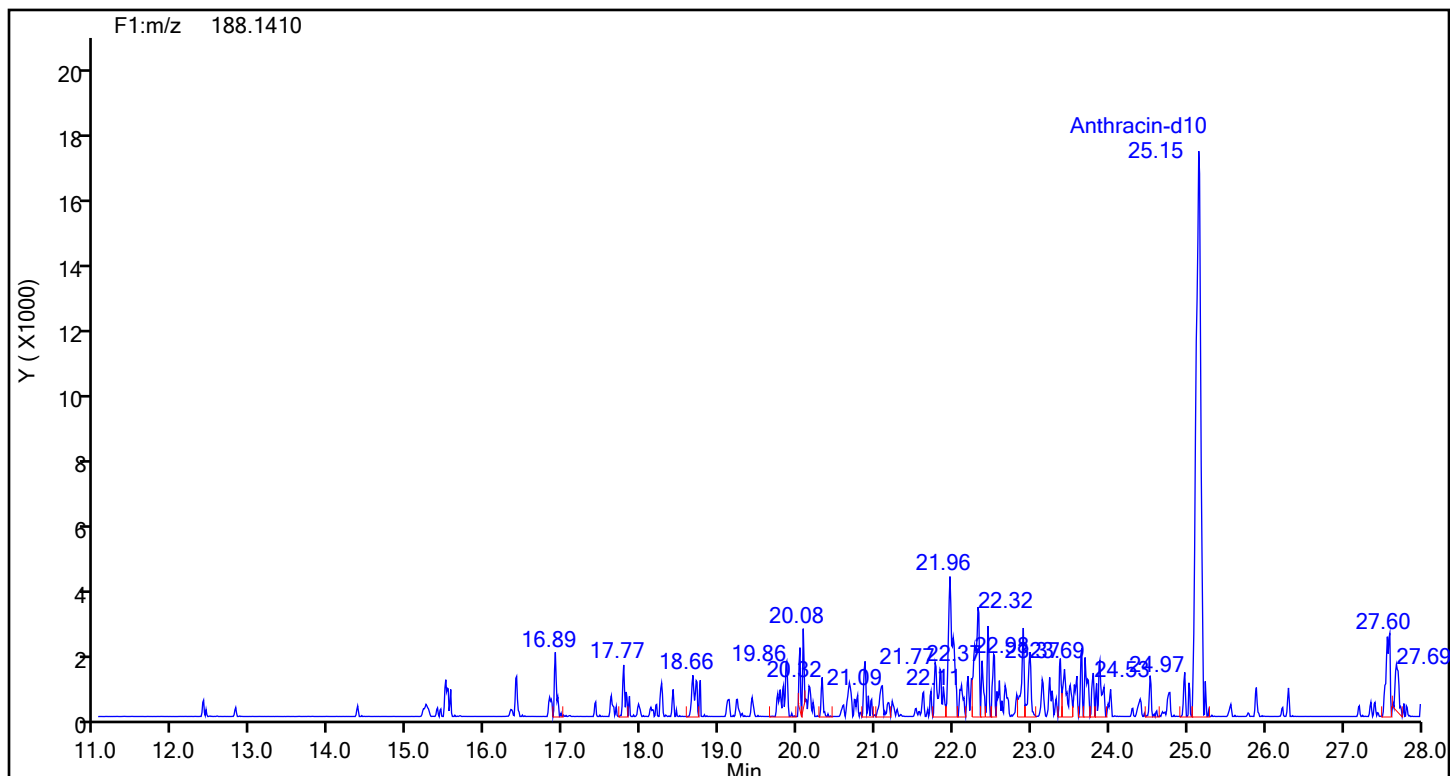


## Acenaphthylene Standards

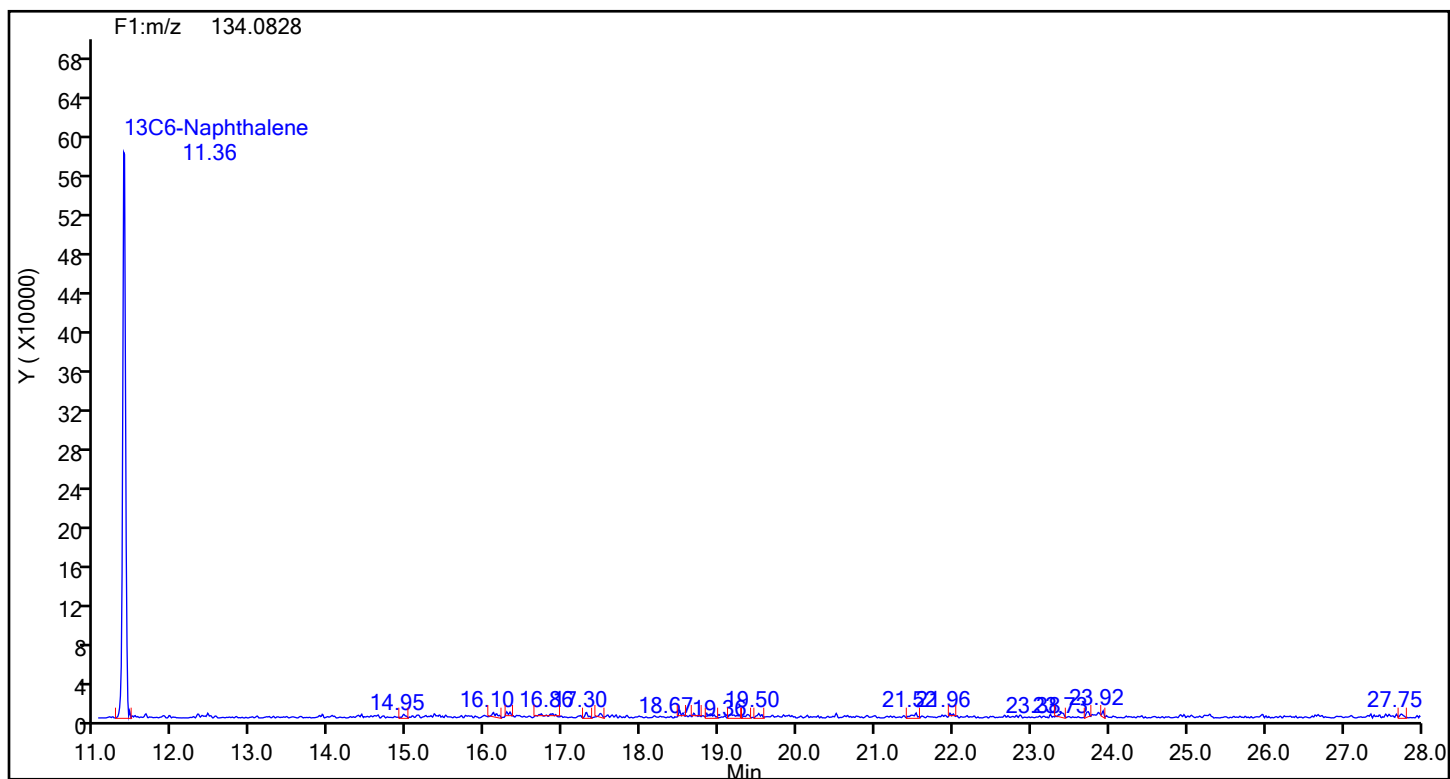


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-3-d\_20240717032449.d  
Injection Date: 17-Jul-2024 03:28:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88831 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10



## Anthracin-d10 Standards



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-3-d\_20240717032449.d  
Lims ID: 140-36940-A-3-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 03:28:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Sample Info:  
Misc. Info.: 140-0033530-007  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 16:09:25 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 13:28:00

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	25.6	5112.10
13C12-Benzo(j)fluoranthene	66.7	0.9281	27.84



FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN 4-COMBINED</u>	Lab Sample ID: <u>140-36940-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-4-f.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/16/2024 17:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/25/2024 01:56</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>89185</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	79400	H	22500	22500	103
91-57-6	2-Methylnaphthalene	41400	H	22500	22500	23.4
208-96-8	Acenaphthylene	564	J H	900	900	53.5
83-32-9	Acenaphthene	3180	J H	9000	9000	74.9
86-73-7	Fluorene	21500	H	9000	9000	20.1
85-01-8	Phenanthrene	45600	H	1800	1800	28.8
120-12-7	Anthracene	7880	J H	9000	9000	27.6
206-44-0	Fluoranthene	3010	H	1800	1800	47.7
129-00-0	Pyrene	6210	H	1800	1800	45.1
56-55-3	Benzo[a]anthracene	4370	H	1800	1800	136
218-01-9	Chrysene	7030	H	1800	1800	137
205-99-2	Benzo[b]fluoranthene	1200	J H	9000	9000	9.62
207-08-9	Benzo[k]fluoranthene	290	J H	1800	1800	6.79
192-97-2	Benzo[e]pyrene	2100	H	1800	1800	12.7
50-32-8	Benzo[a]pyrene	938	H	900	900	6.26
198-55-0	Perylene	ND	H	900	900	5.61
193-39-5	Indeno[1,2,3-cd]pyrene	ND	H	900	900	3.99
53-70-3	Dibenz(a,h)anthracene	176	J H	1800	1800	2.85
191-24-2	Benzo[g,h,i]perylene	381	J H	1800	1800	3.47

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>4-COMBINED</u>	Lab Sample ID: <u>140-36940-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-4-f.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/16/2024 17:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/25/2024 01:56</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>89185</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	64		20-130
STL03357	13C6-2-Methylnaphthalene	67		20-130
189811-56-1	13C6-Acenaphthylene	96		20-130
189811-57-2	13C6-Acenaphthene	88		20-130
STL00616	13C6-Fluorene	101		20-130
1397194-60-3	13C6-Fluoranthrene	98		20-130
1397214-90-2	13C3-Pyrene	98		20-130
917378-11-1	13C6-Benzo (a) anthracene	86		20-130
1397177-72-8	13C6-Chrysene	86		20-130
STL03358	13C6-Benzo (b) fluoranthene	63		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	100		20-130
STL03382	13C4-Benzo (e) pyrene	51		20-130
STL03359	13C4-Benzo (a) pyrene	92		20-130
1520-96-3	Perylene-d12	97		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	93		20-130
STL03360	13C6-Dibenz (a,h) anthracene	109		20-130
350820-11-0	13C12-Benzo (ghi) perylene	92		20-130
189811-60-7	13C6-Anthracene	104		20-130
1189955-53-0	13C6-Phenanthrene	93		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Lims ID: 140-36940-A-4-F  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Sample Type: Client  
Inject. Date: 25-Jul-2024 01:56:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033664-007  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 26-Jul-2024 09:22:32 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1646

First Level Reviewer: TT6I

Date: 26-Jul-2024 09:22:32

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:23	25825989		3.3746	63.7	63.7	0.008335	0.008335	63.53	
Naphthalene	11:24	58584409		1.2893	176.5	176.5	0.2298	0.2298		
D 13C6-2-Methylnaphthalene	13:46	12897343		1.6031	67.0	67.0	0.004054	0.004054	66.79	
2-Methylnaphthalene	13:46	15111651		1.2786	91.9	91.9	0.0521	0.0521		
D 13C6-Acenaphthylene	16:38	19200370		1.6520	96.8	96.8	0.006234	0.006234	96.48	
Acenaphthylene	16:38	305722		2.3661	1.252	1.252	0.1188	0.1188		M
* Acenaphthene-d10	17:13	6023195		3.5E+04	50.2	50.2				
D 13C6-Acenaphthene	17:20	10352352		0.9792	88.1	88.1	0.005685	0.005685	87.77	
Acenaphthene	17:20	924841		1.2697	7.060	7.060	0.1664	0.1664		M
D 13C6-Fluorene	19:37	10850989		0.8898	101.6	101.6	0.003224	0.003224	101	
Fluorene	19:37	6483784		1.2532	47.8	47.8	0.0447	0.0447		
D 13C6-Phenanthrene	24:59	17425649		0.5724	93.4	93.4	0.007400	0.007400	93.07	
Phenanthrene	24:59	19433047		1.1044	101.3	101.3	0.0640	0.0640		
\$ Anthracin-d10	25:12	1632188		0.4257	11.8	11.8	0.001580	0.001580	117	
D 13C6-Anthracene	25:18	15382399		0.4523	104.3	104.3	0.009365	0.009365	104	
Anthracene	25:19	3649603		1.3586	17.5	17.5	0.0614	0.0614		
D 13C6-Fluoranthrene	33:43	38307245		1.1994	98.0	98.0	0.0276	0.0276	97.64	
Fluoranthene	33:43	2938164		1.1513	6.684	6.684	0.1059	0.1059		
* Pyrene-d10	35:15	16354924		7.9E+04	50.2	50.2				
D 13C3-Pyrene	35:24	43152373		1.3512	98.0	98.0	0.0684	0.0684	97.63	
Pyrene	35:24	6323675		1.0652	13.8	13.8	0.1003	0.1003		
\$ 13C6-Benzo(c)fluorene	39:05	22383076		0.5136	133.7	133.7	0.0272	0.0272	133	
D 13C6-Benzo(a)anthracene	45:54	38135837		1.5189	86.1	86.1	0.0123	0.0123	85.85	
Benzo[a]anthracene	45:55	3594787		0.9739	9.712	9.712	0.3013	0.3013		
D 13C6-Chrysene	46:10	40756457		1.6287	85.8	85.8	0.0115	0.0115	85.56	
Chrysene	46:09	6229262		0.9815	15.6	15.6	0.3045	0.3045		M
D 13C6-Benzo(b)fluoranthene	54:31	27010138		1.4621	63.4	63.4	0.005703	0.005703	63.17	
Benzo[b]fluoranthene	54:31	809346		1.1249	2.673	2.673	0.0214	0.0214		
\$ 13C12-Benzo(j)fluoranthene	54:35	20322024		1.3558	51.4	51.4	0.007779	0.007779	51.31	
D 13C6-Benzo(k)fluoranthene	54:39	50982169		1.7507	99.9	99.9	0.004763	0.004763	99.58	
Benzo[k]fluoranthene	54:36	369641		1.1271	0.6454	0.6454	0.0151	0.0151		M
* Benzo(e)pyrene-d12	55:24	14622597		5.7E+04	50.2	50.2				
Benzo[e]pyrene	55:28	1147352		1.0013	4.674	4.674	0.0281	0.0281		M
D 13C4-Benzo(e)pyrene	55:28	24600352		1.6368	51.6	51.6	0.0257	0.0257	51.39	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:37	41589543		1.5508	92.0	92.0	0.0271	0.0271	91.70	
Benzo[a]pyrene	55:37	961980		1.1130	2.085	2.085	0.0139	0.0139		M
D Perylene-d12	55:48	33650406		1.1917	96.9	96.9	0.008851	0.008851	96.55	
Perylene	55:51						0.0125	0.0125		
D 13C6-Indeno(1,2,3-cd)pyrene	57:56	27857379		1.0218	93.5	93.5	0.0523	0.0523	93.22	
Indeno[1,2,3-cd]pyrene	57:55						0.008866	0.008866		
D 13C6-Dibenz(a,h)anthracene	58:00	33650158		1.0553	109.4	109.4	0.0253	0.0253	109	
Dibenz(a,h)anthracene	58:00	148138		1.1314	0.3904	0.3904	0.006328	0.006328		M
D 13C12-Benzo(ghi)perylene	58:23	34294677		1.2749	92.3	92.3	0.0304	0.0304	91.98	
Benzo[g,h,i]perylene	58:24	371665		1.2838	0.8470	0.8470	0.007721	0.007721		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Lims ID: 140-36940-A-4-F  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Sample Type: Client  
Inject. Date: 25-Jul-2024 01:56:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033664-007  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 26-Jul-2024 09:22:32 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1646

First Level Reviewer: TT61

Date: 26-Jul-2024 09:22:32

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:23	11:26	-2	0.662	25825989	8789147	459	1147	19148		
Naphthalene											
128.0626	11:24	11:26	-2	1.001	58584409	20548957	10382	25955	1979		
13C6-2-Methylnaphthalene											
148.0984	13:46	13:48	-1	0.800	12897343	6256427	106	265	59023		
2-Methylnaphthalene											
142.0783	13:46	13:47	-1	1.000	15111651	6733887	1660	4150	4057		
13C6-Acenaphthylene											
158.0828	16:38	16:39	0	0.967	19200370	6718800	168	420	39993		
Acenaphthylene											
152.0626	16:38	16:38	-1	1.000	305722	102922	3965	9912	26		M
Acenaphthene-d10											
164.1404	17:13	17:13	0		6023195	2045803	14	35	146129		M
13C6-Acenaphthene											
160.0984	17:20	17:21	0	1.007	10352352	3538312	91	227	38883		
Acenaphthene											
154.0783	17:20	17:20	0	1.000	924841	311373	2981	7452	104		M
13C6-Fluorene											
172.0984	19:37	19:37	0	1.140	10850989	3139665	47	117	66801		E
Fluorene											
166.0783	19:37	19:38	-1	1.000	6483784	1821602	701	1752	2599		
13C6-Phenanthrene											
184.0984	24:59	24:59	0	0.708	17425649	3833603	101	252	37956		
Phenanthrene											
178.0783	24:59	24:59	0	1.000	19433047	4234577	1081	2702	3917		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:12	25:12	0	0.715	1632188	353802	16	40	22113		
13C6-Anthracene											
184.0984	25:18	25:19	0	0.718	15382399	3251414	101	252	32192		E
Anthracene											
178.0783	25:19	25:20	0	1.000	3649603	727628	1081	2702	673		
13C6-Fluoranthrene											
208.0984	33:43	33:43	0	0.956	38307245	7177554	787	1967	9120		
Fluoranthene											
202.0783	33:43	33:43	1	1.000	2938164	568468	3490	8725	163		
Pyrene-d10											
212.1404	35:15	35:14	1		16354924	2984274	139	347	21470		
13C3-Pyrene											
205.0883	35:24	35:24	0	1.004	43152373	8191072	2201	5502	3722		
Pyrene											
202.0783	35:24	35:23	0	1.000	6323675	1190443	3490	8725	341		
13C6-Benzo(c)fluorene											
222.1134	39:05	39:06	0	0.706	22383076	4022475	333	832	12080		
13C6-Benzo(a)anthracene											
234.1140	45:54	45:55	0	1.302	38135837	6426739	717	1792	8963		
Benzo[a]anthracene											
228.0939	45:55	45:55	0	1.000	3594787	650290	7518	18795	86		
13C6-Chrysene											
234.1140	46:10	46:11	0	1.310	40756457	6310415	717	1792	8801		
Chrysene											
228.0939	46:09	46:09	-2	1.000	6229262	662591	7518	18795	88		M
13C6-Benzo(b)fluoranthene											
258.1140	54:31	54:32	-1	0.984	27010138	8218913	320	800	25684		M
Benzo[b]fluoranthene											
252.0939	54:31	54:32	-1	1.000	809346	194558	788	1970	247		M
13C12-Benzo(j)fluoranthene											
264.1336	54:35	54:34	1	0.985	20322024	3664911	405	1012	9049		
13C6-Benzo(k)fluoranthene											
258.1140	54:39	54:39	0	0.986	50982169	11624086	320	800	36325		
Benzo[k]fluoranthene											
252.0939	54:36	54:36	-3	0.999	369641	98430	788	1970	125		M
Benzo(e)pyrene-d12											
264.1692	55:24	55:24	0		14622597	4813238	405	1012	11885		
Benzo[e]pyrene											
252.0939	55:28	55:28	-1	1.000	1147352	254765	788	1970	323		M
13C4-Benzo(e)pyrene											
256.1073	55:28	55:29	-1	1.001	24600352	7018733	1615	4037	4346		
13C4-Benzo(a)pyrene											
256.1073	55:37	55:38	0	1.004	41589543	12774727	1615	4037	7910		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:37	55:37	0	1.000	961980	226234	788	1970	287		M
Perylene-d12											
264.1692	55:48	55:48	1	1.007	33650406	11087617	405	1012	27377		
Perylene											
252.0939	55:52						788	1970			
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:56	57:56	0	1.046	27857379	9858242	2053	5132	4802		
Indeno[1,2,3-cd]pyrene											
276.0939	57:56						392	980			
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	58:00	0	1.047	33650158	8829208	1024	2560	8622		E
Dibenz(a,h)anthracene											M
278.1096	58:00	58:00	-1	1.000	148138	42866	252	630	170		M
13C12-Benzo(ghi)perylene											
288.1342	58:23	58:23	0	1.054	34294677	9919678	1486	3715	6675		
Benzo[g,h,i]perylene											M
276.0939	58:24	58:24	0	1.000	371665	116962	392	980	298		M

### QC Flag Legend

Processing Flags

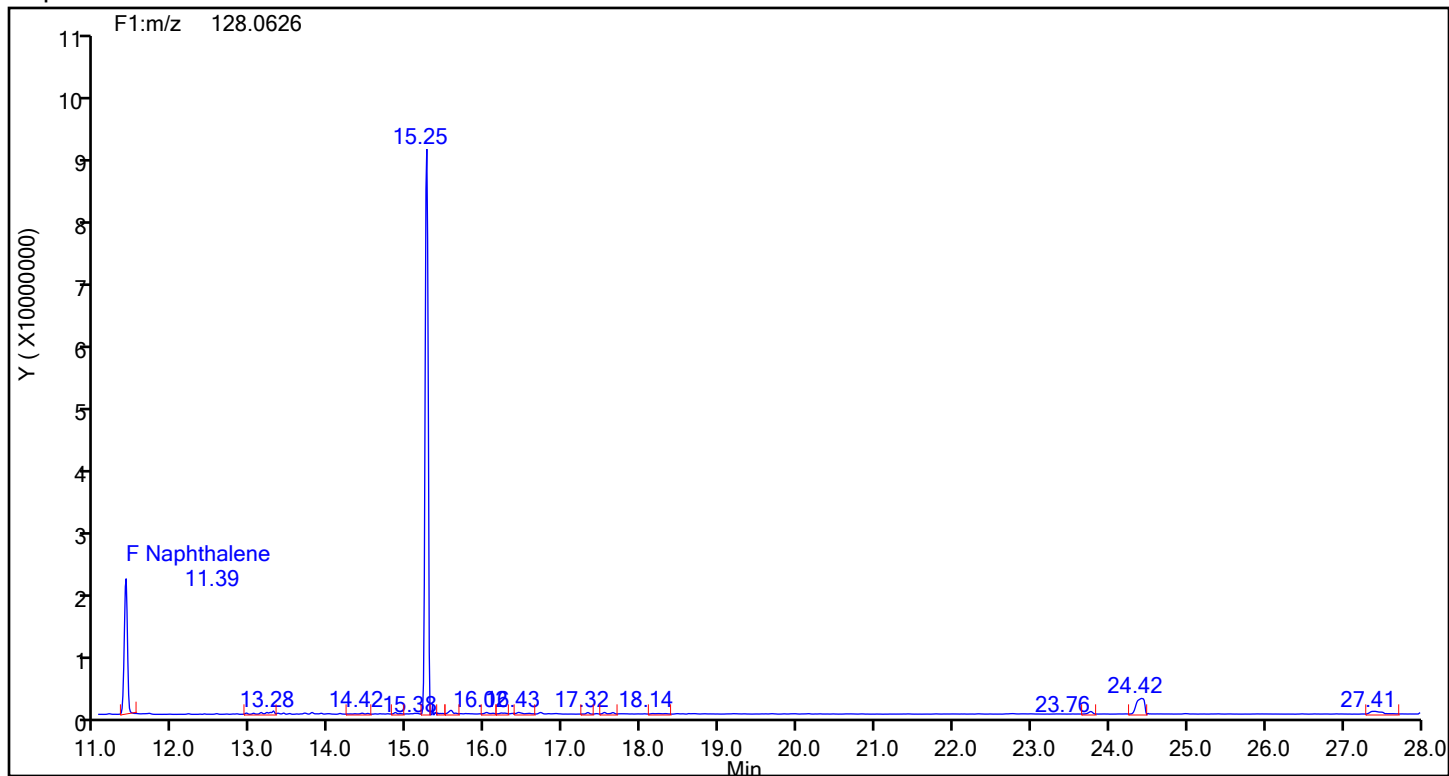
Review Flags

M - Manually Integrated

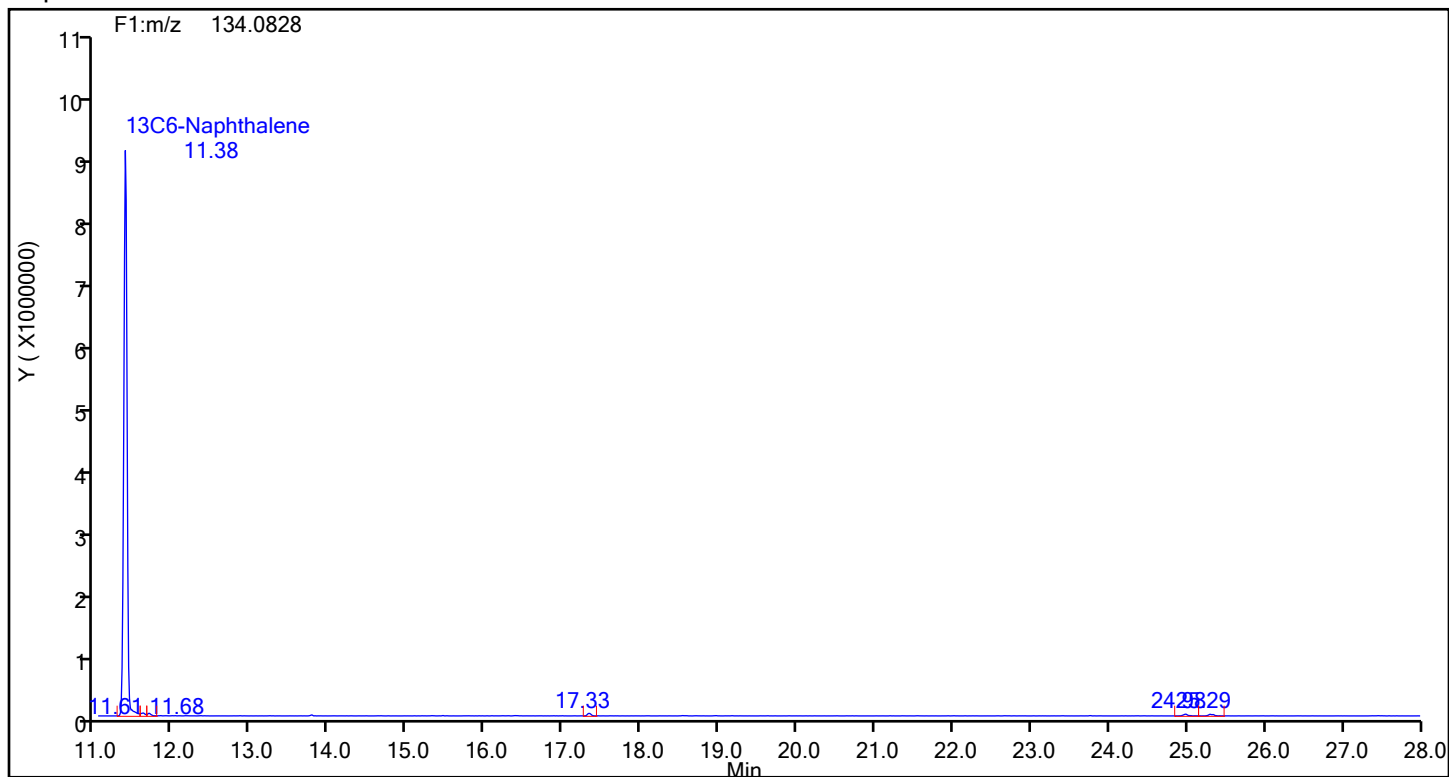
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards

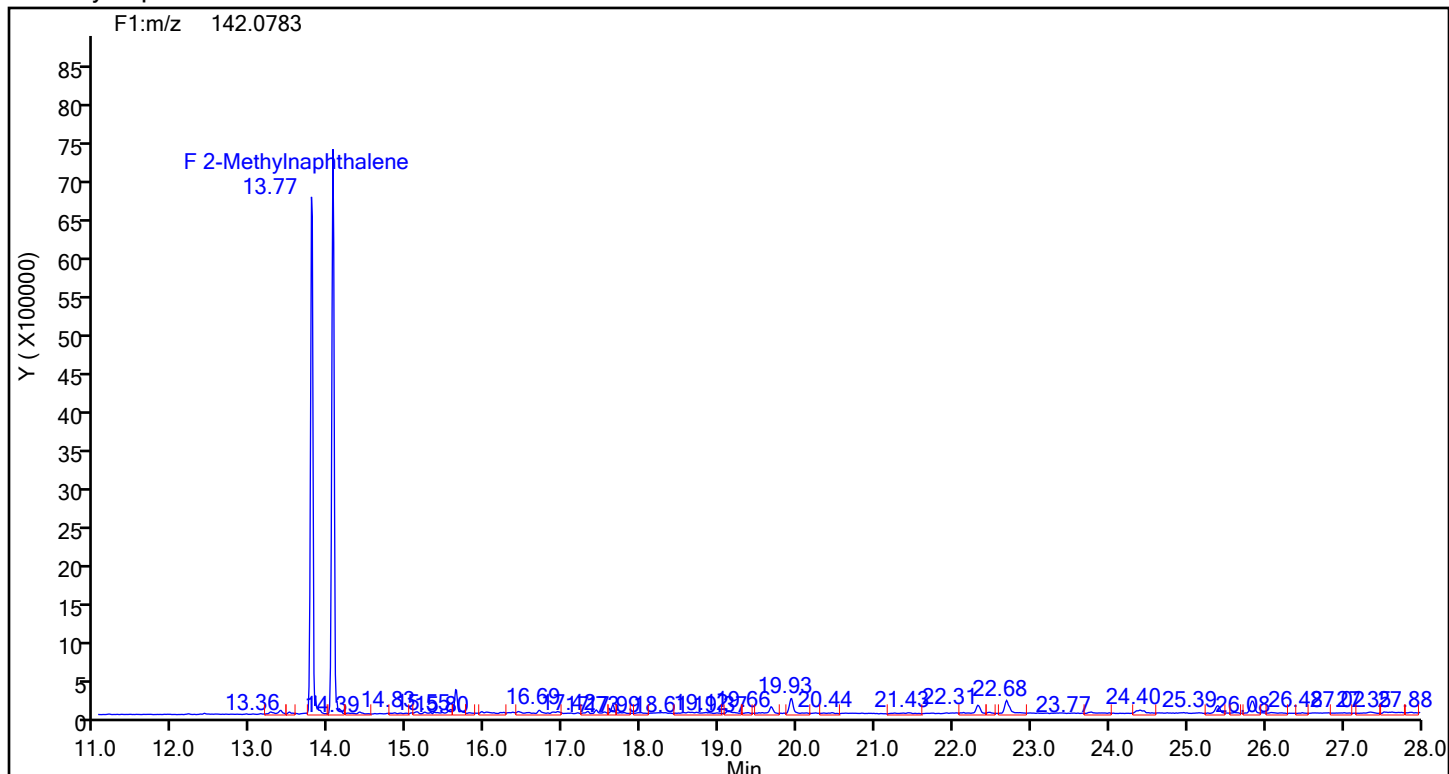




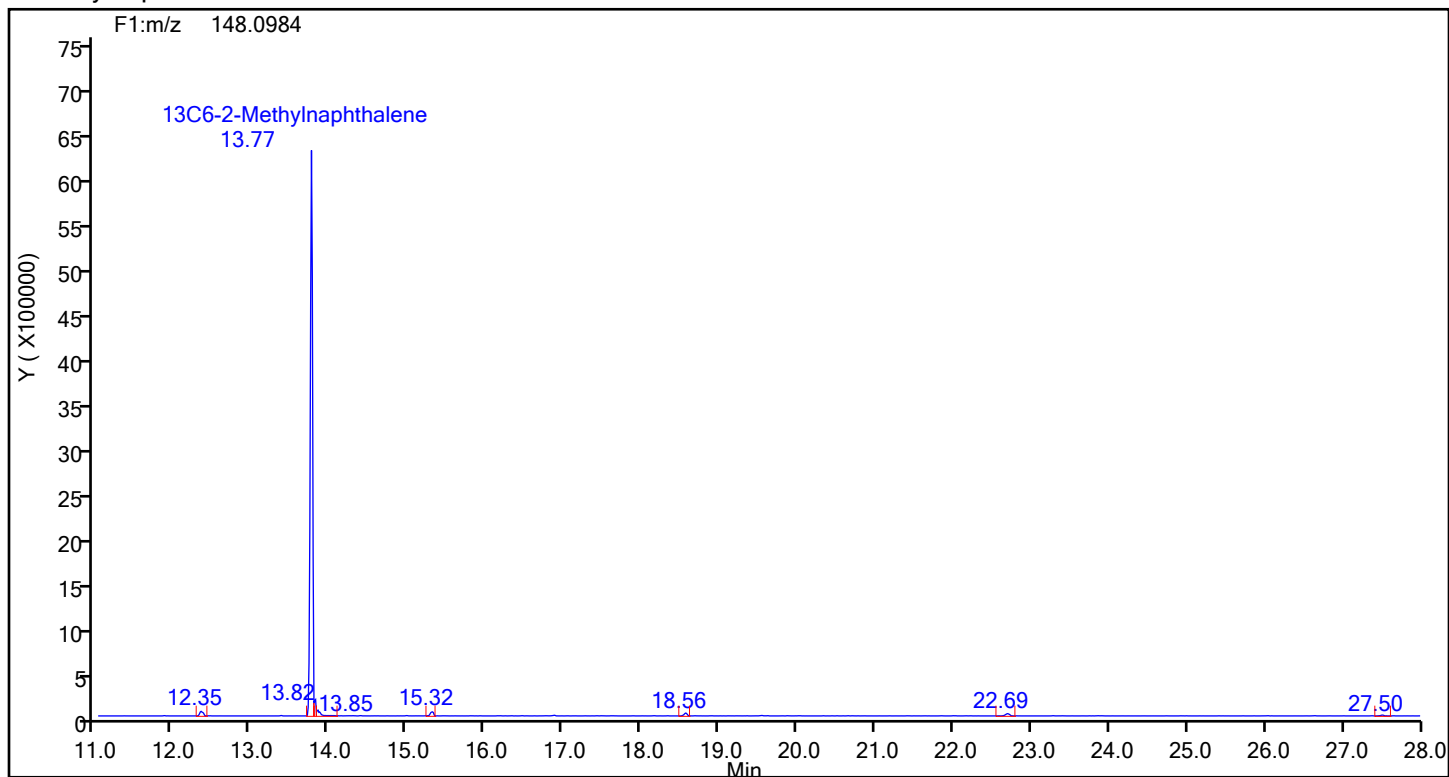
## Eurofins Knoxville

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Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



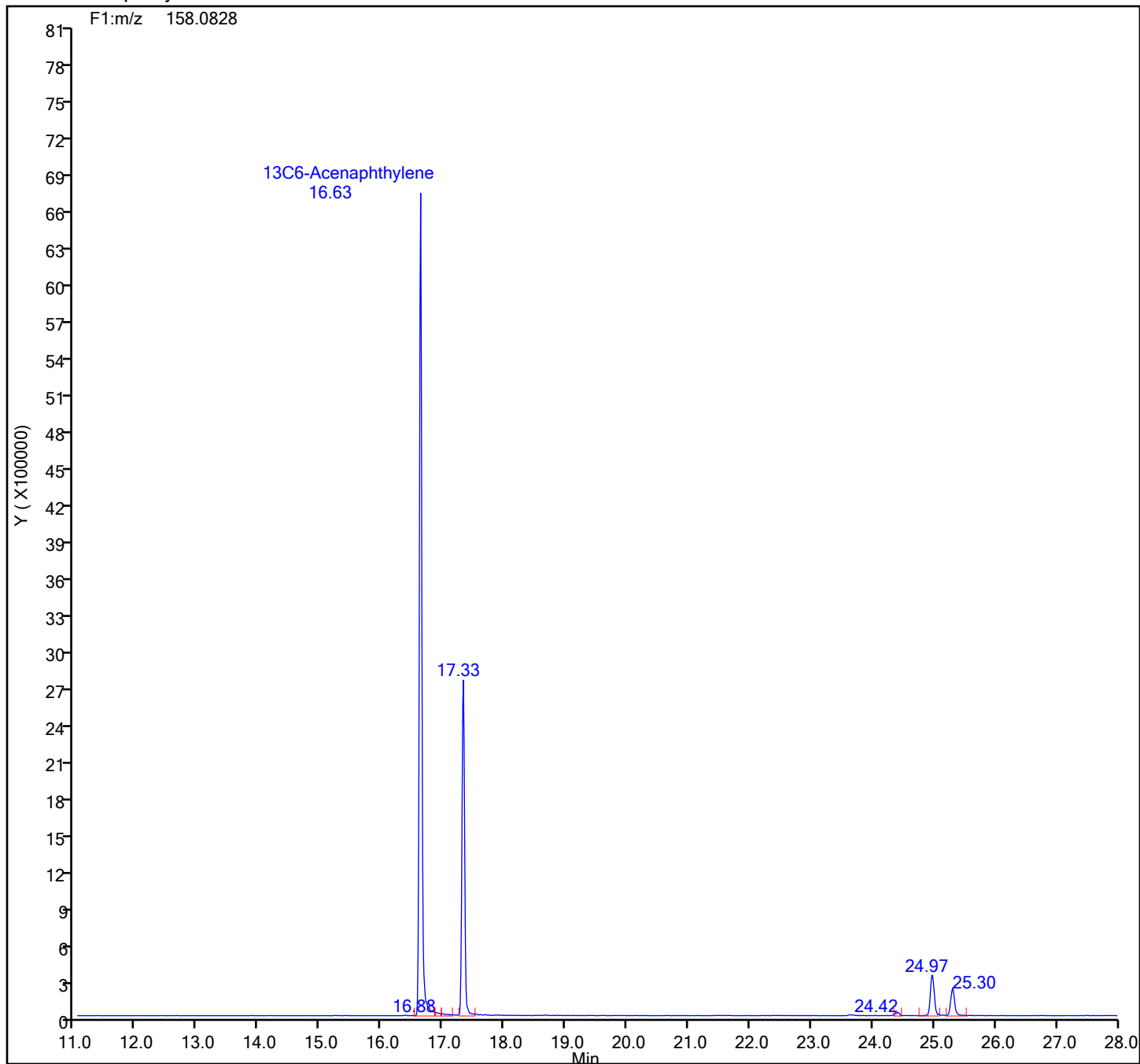
## 2-Methylnaphthalene Standards



## Eurofins Knoxville

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Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

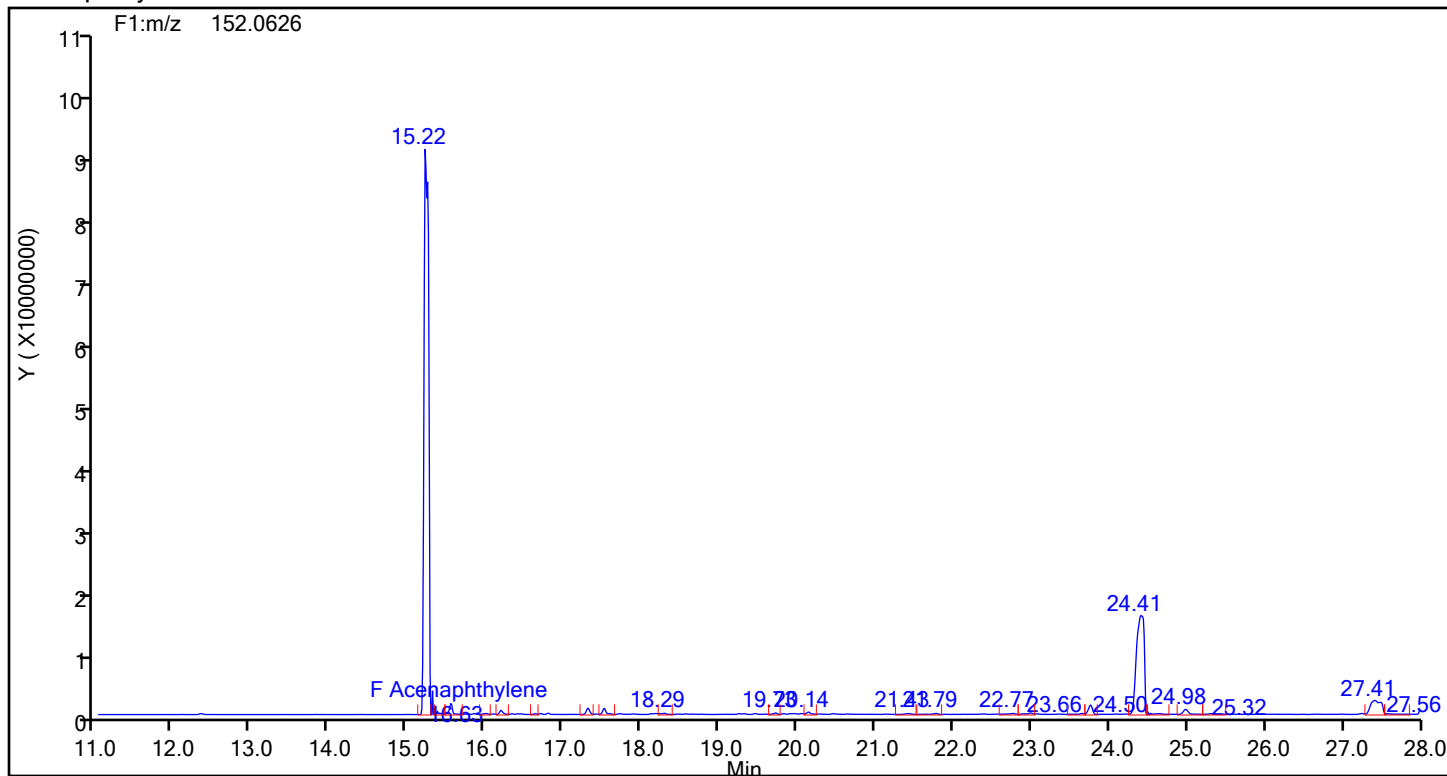
## 13C6-Acenaphthylene Standards



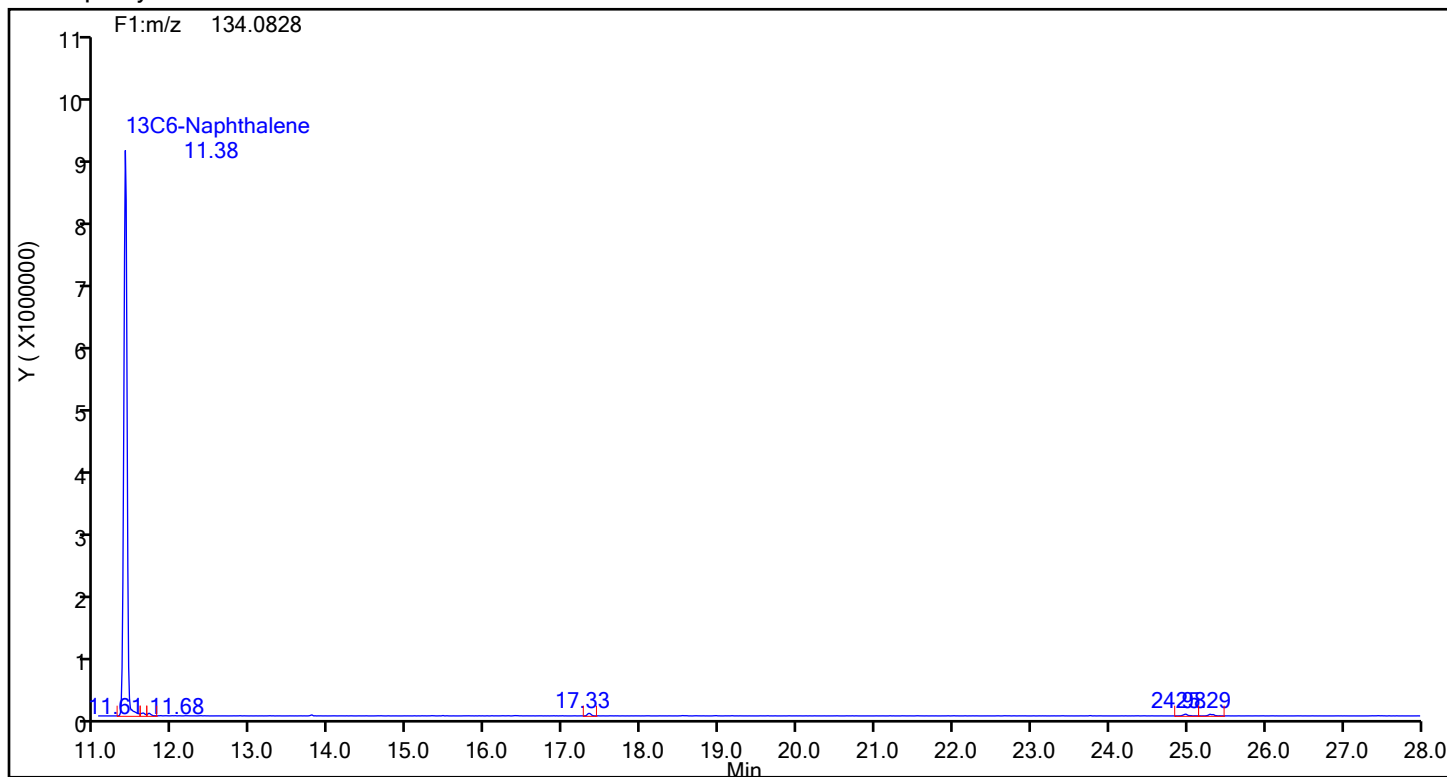
## Eurofins Knoxville

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Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



## Acenaphthylene Standards



## Eurofins Knoxville

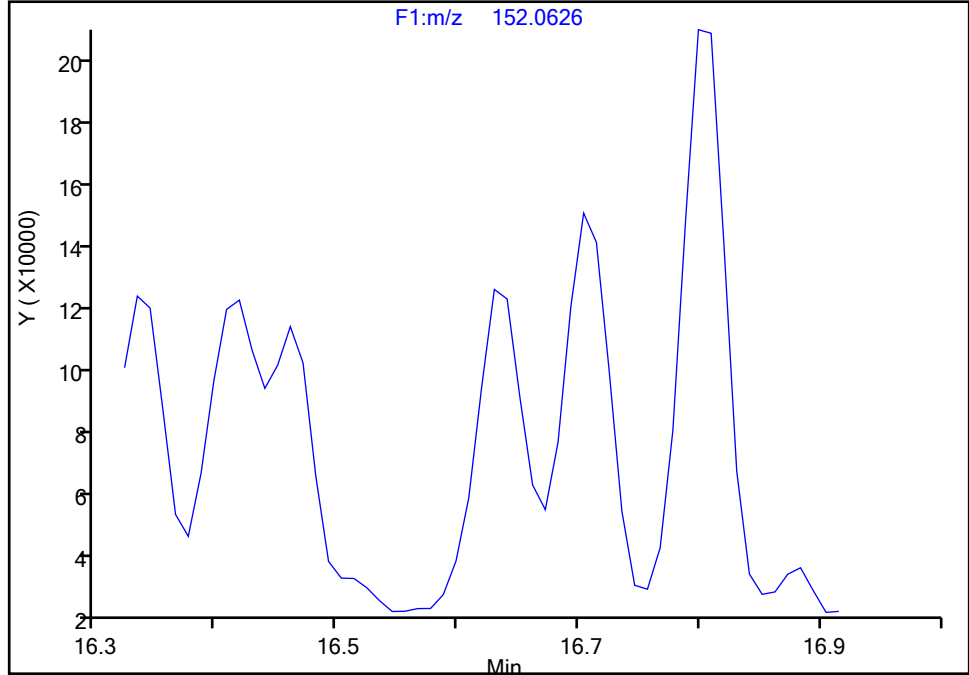
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Injection Date: 25-Jul-2024 01:56:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-4-F Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**Acenaphthylene, CAS: 208-96-8**

Signal: 1

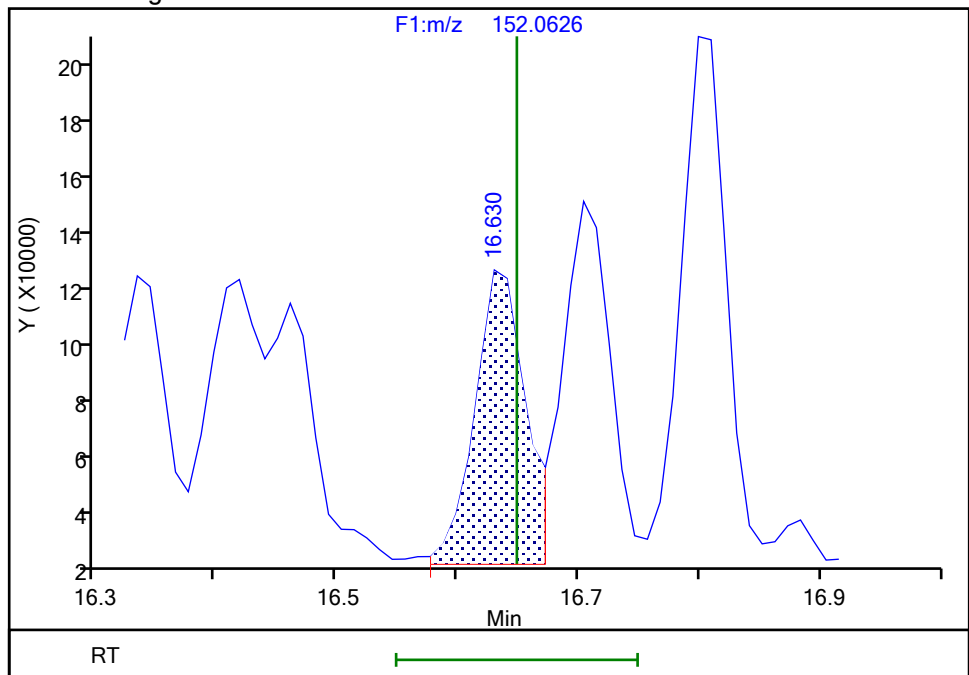
Not Detected  
Expected RT: 16.65

## Processing Integration Results



## Manual Integration Results

RT: 16.63  
Area: 305722  
Amount: 1.252257  
Amount Units: pg/ul



Reviewer: TT6I, 26-Jul-2024 09:21:16 -04:00:00 (UTC)

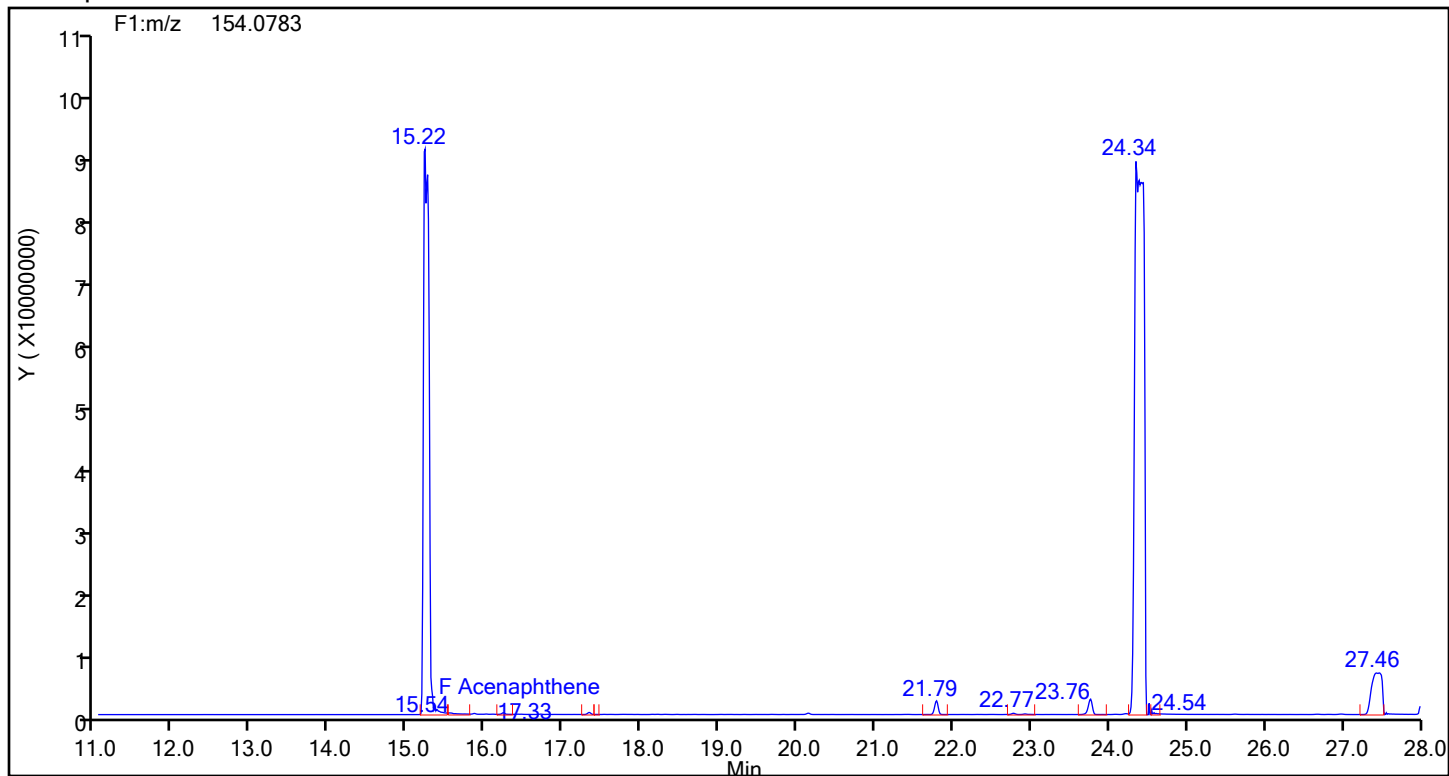
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

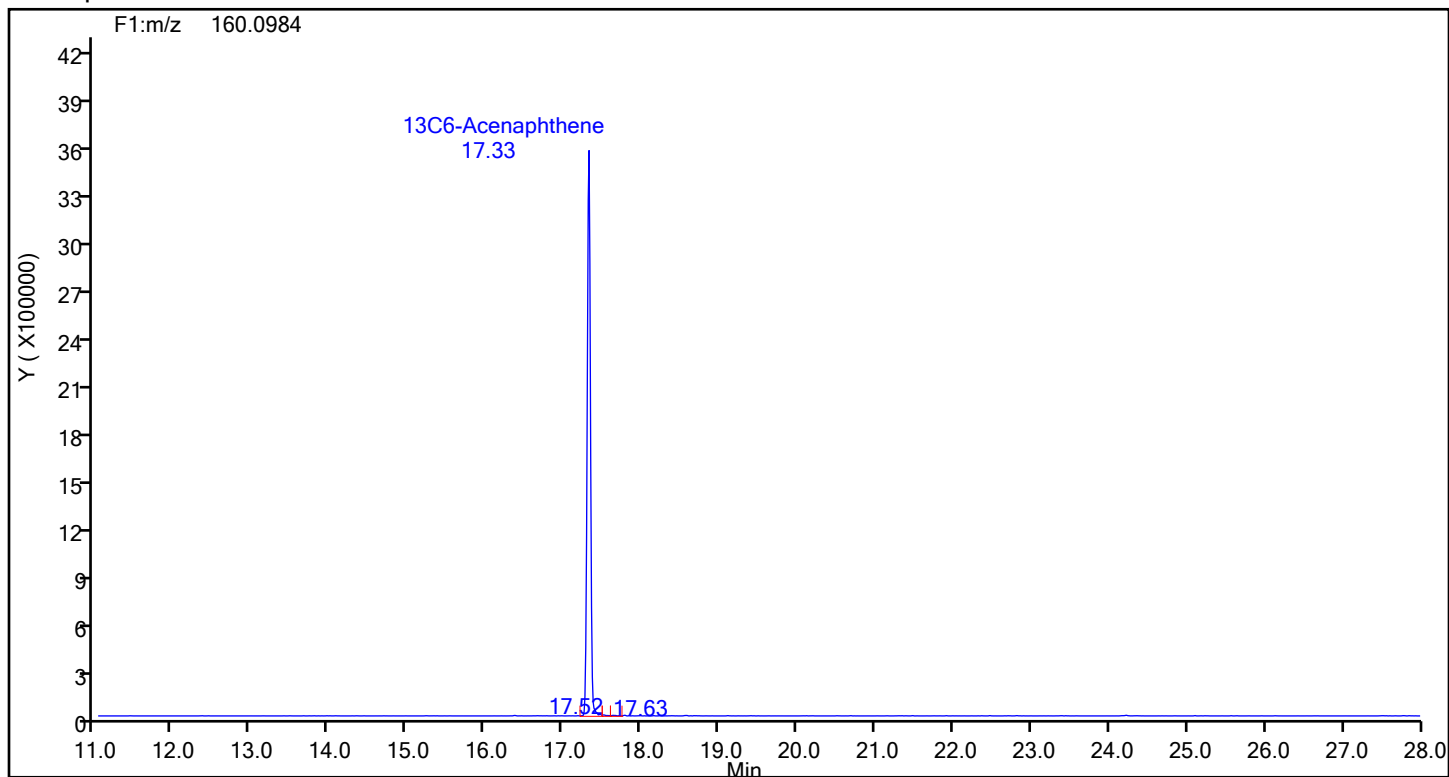
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



## Acenaphthene Standards



## Eurofins Knoxville

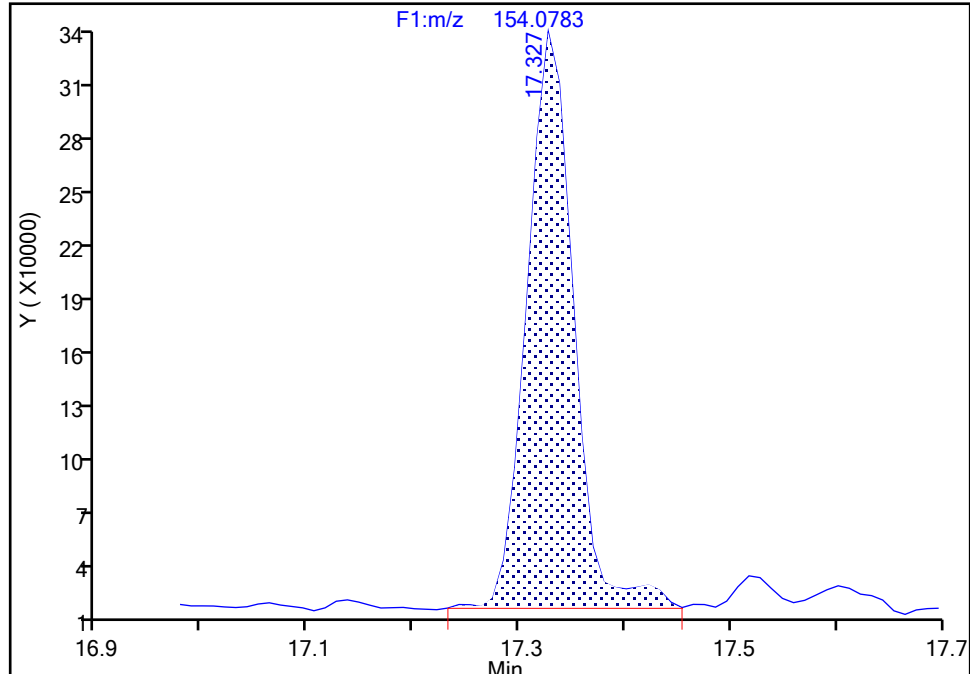
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-4-F Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1\IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F1(6.03 :27.99 )

## Acenaphthene, CAS: 83-32-9

Signal: 1

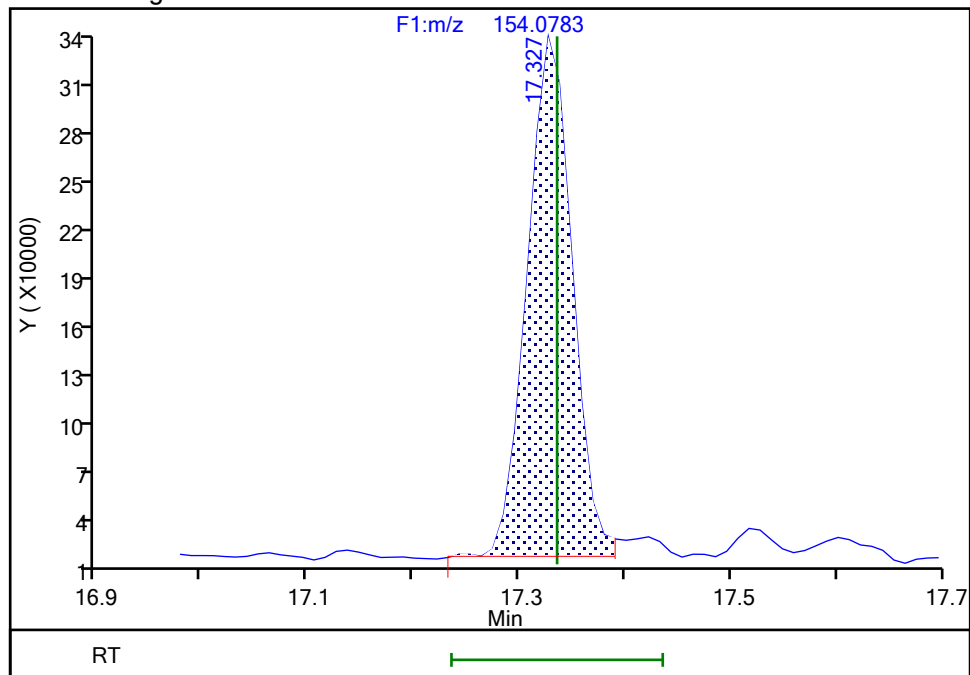
RT: 17.33  
Area: 953899  
Amount: 7.281416  
Amount Units: pg/ul

## Processing Integration Results



RT: 17.33  
Area: 924841  
Amount: 7.059607  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 26-Jul-2024 09:19:25 -04:00:00 (UTC)

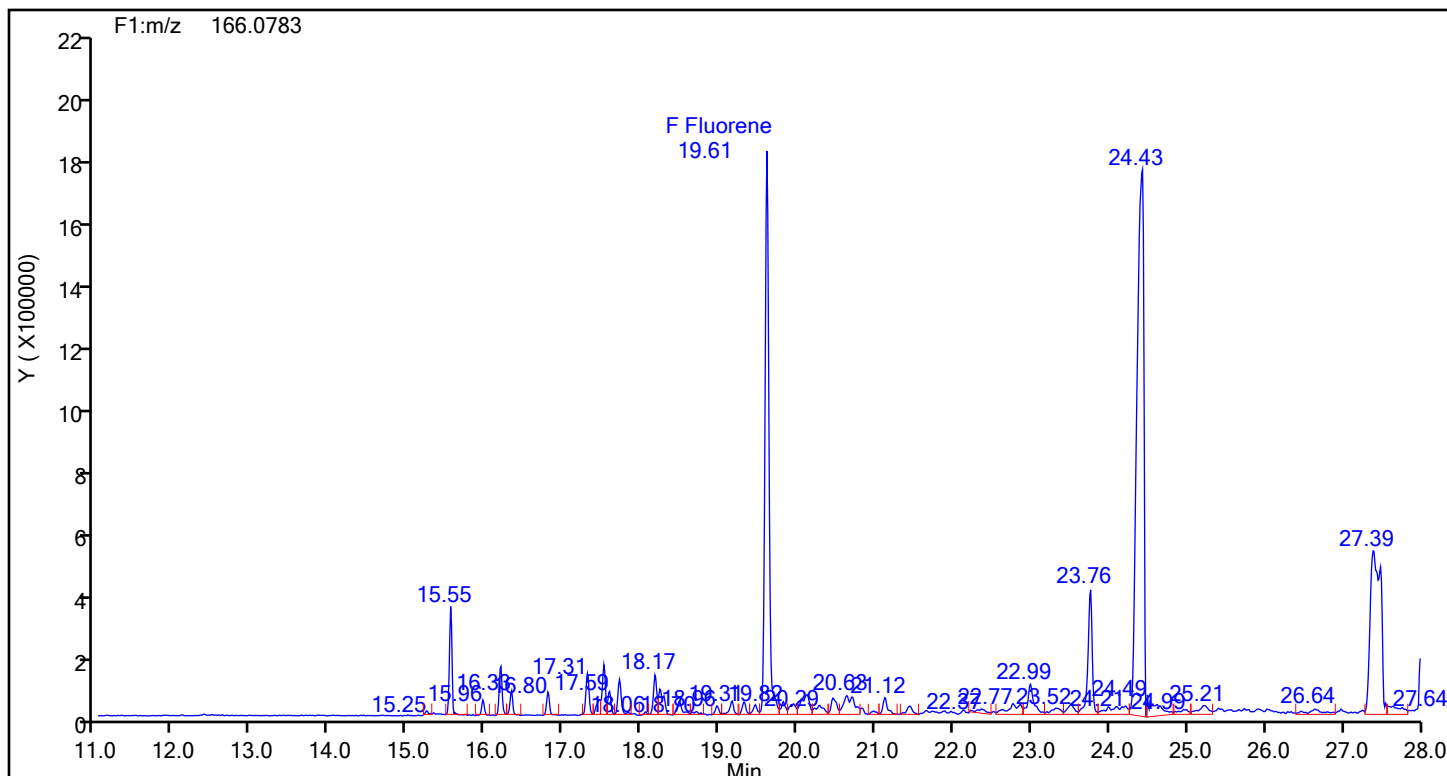
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

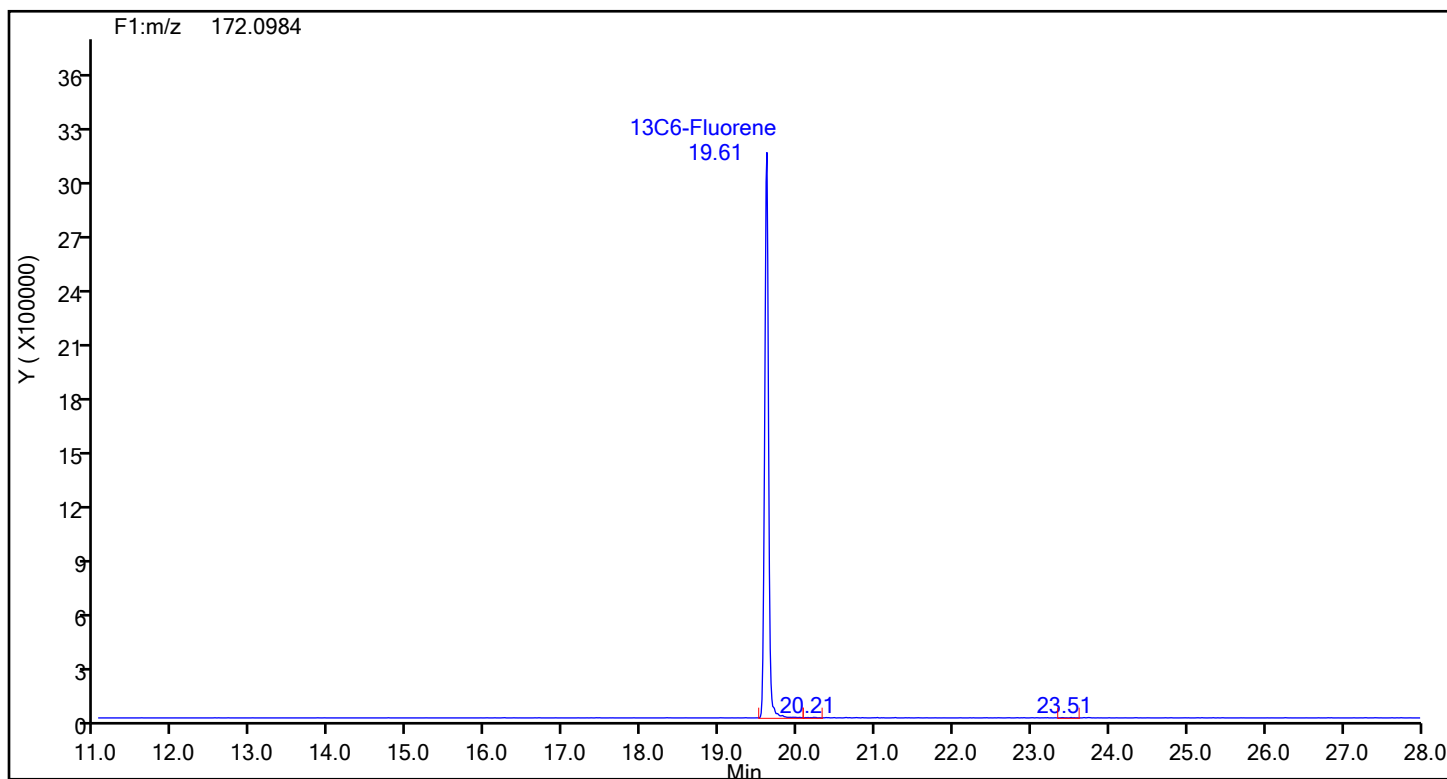
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



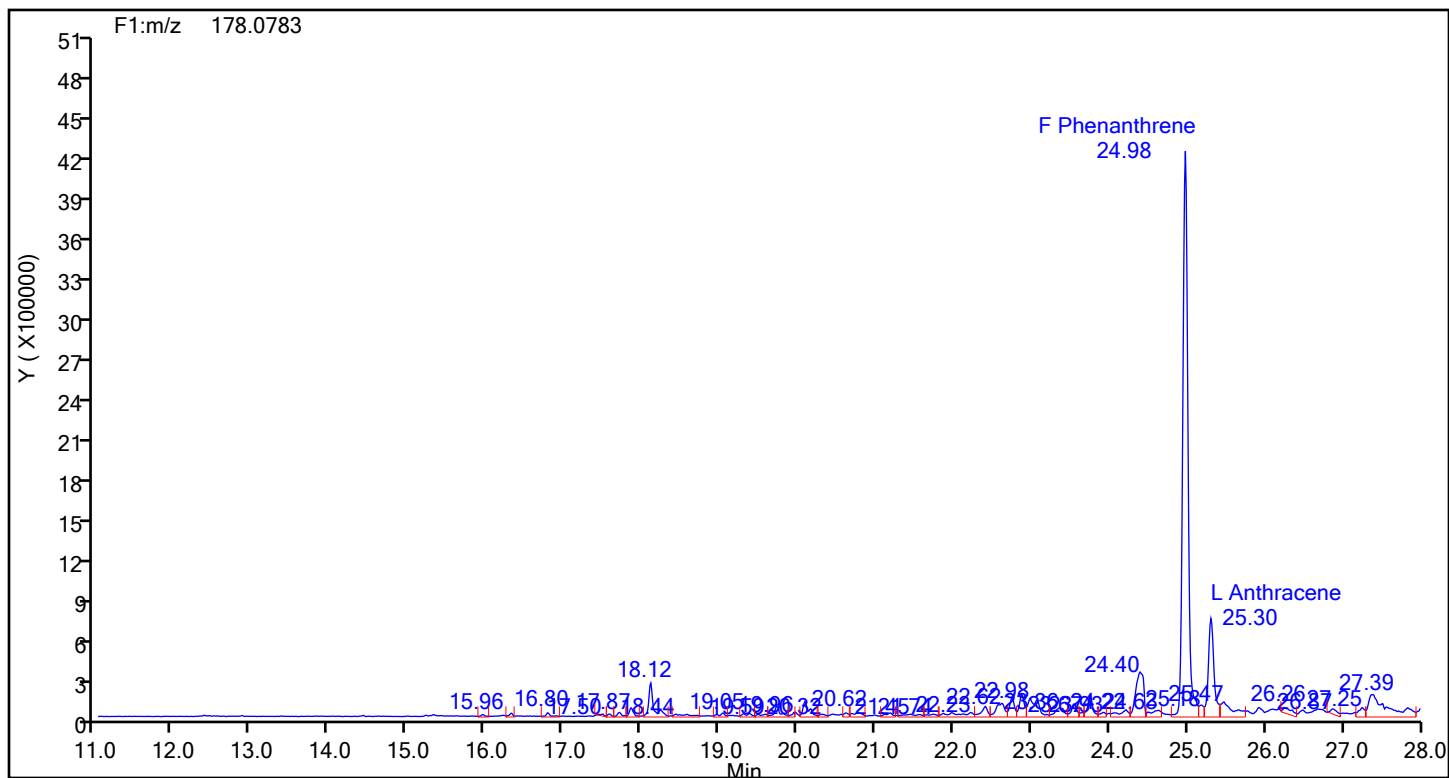
## Fluorene Standards



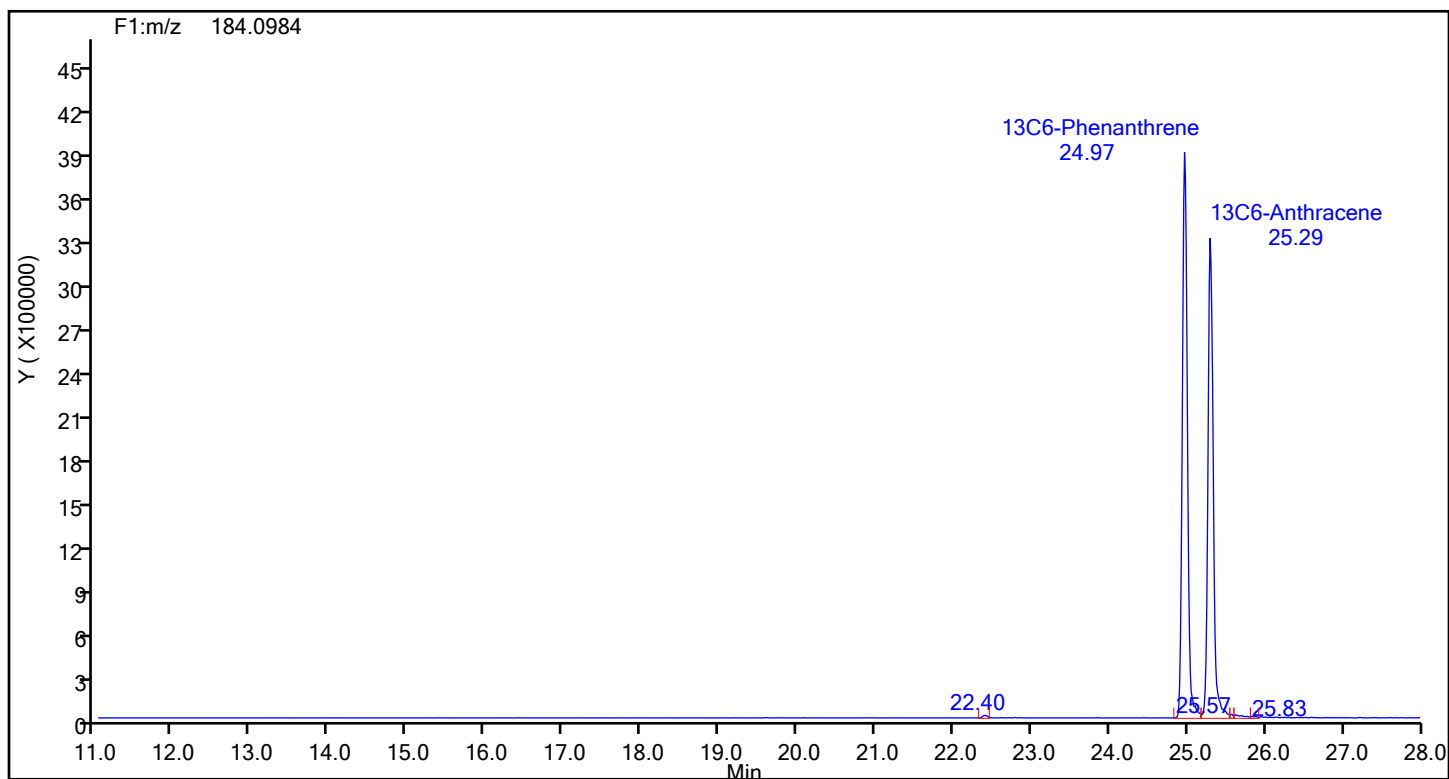
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Phenanthrene



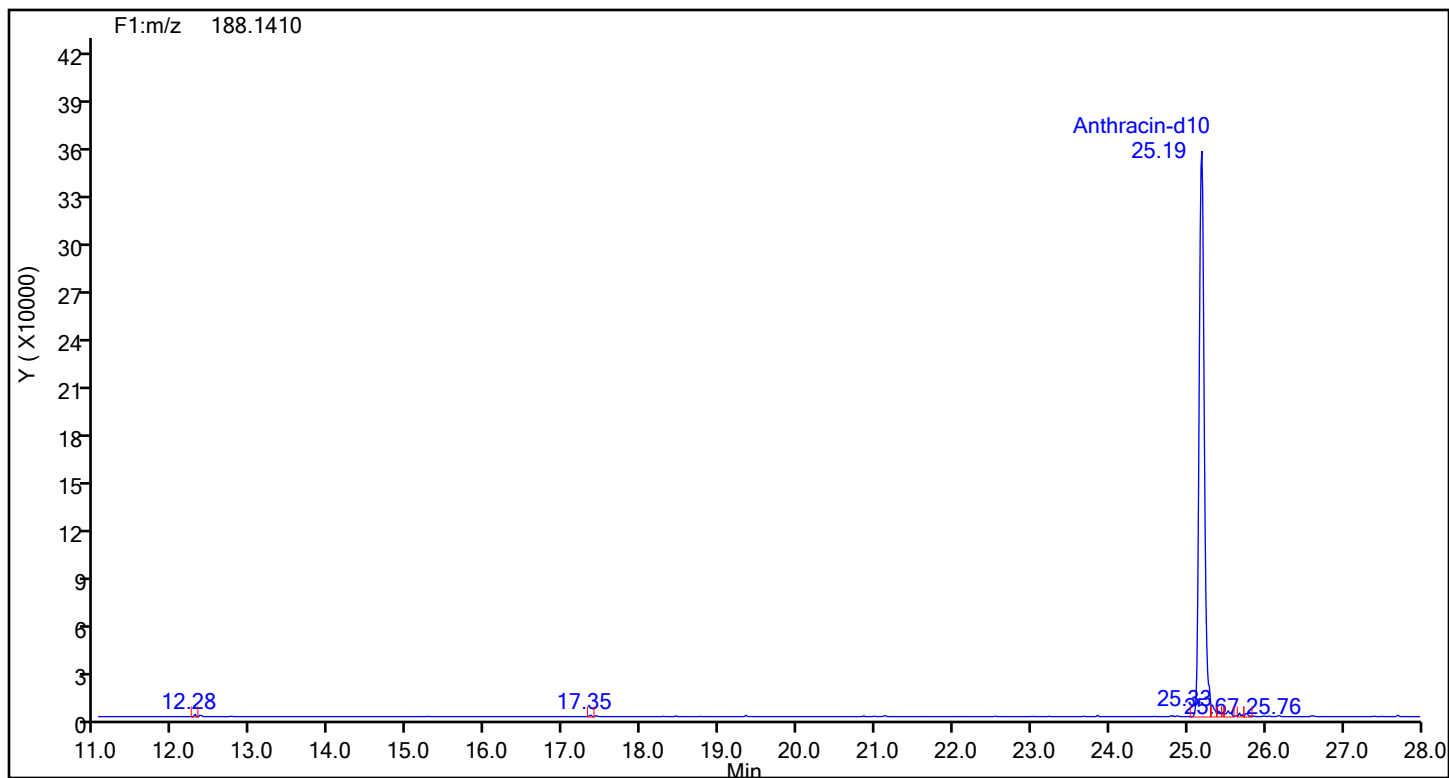
## Phenanthrene Standards



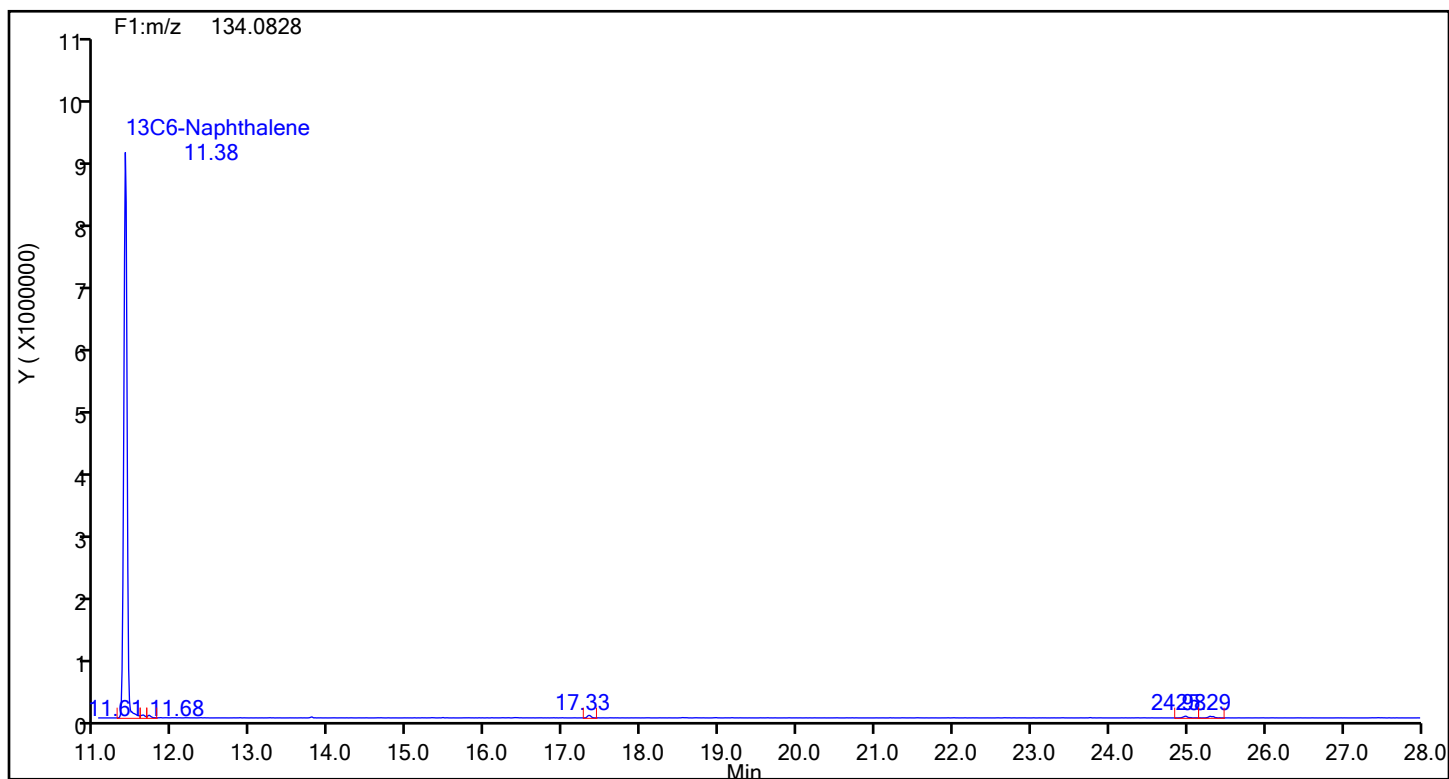


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

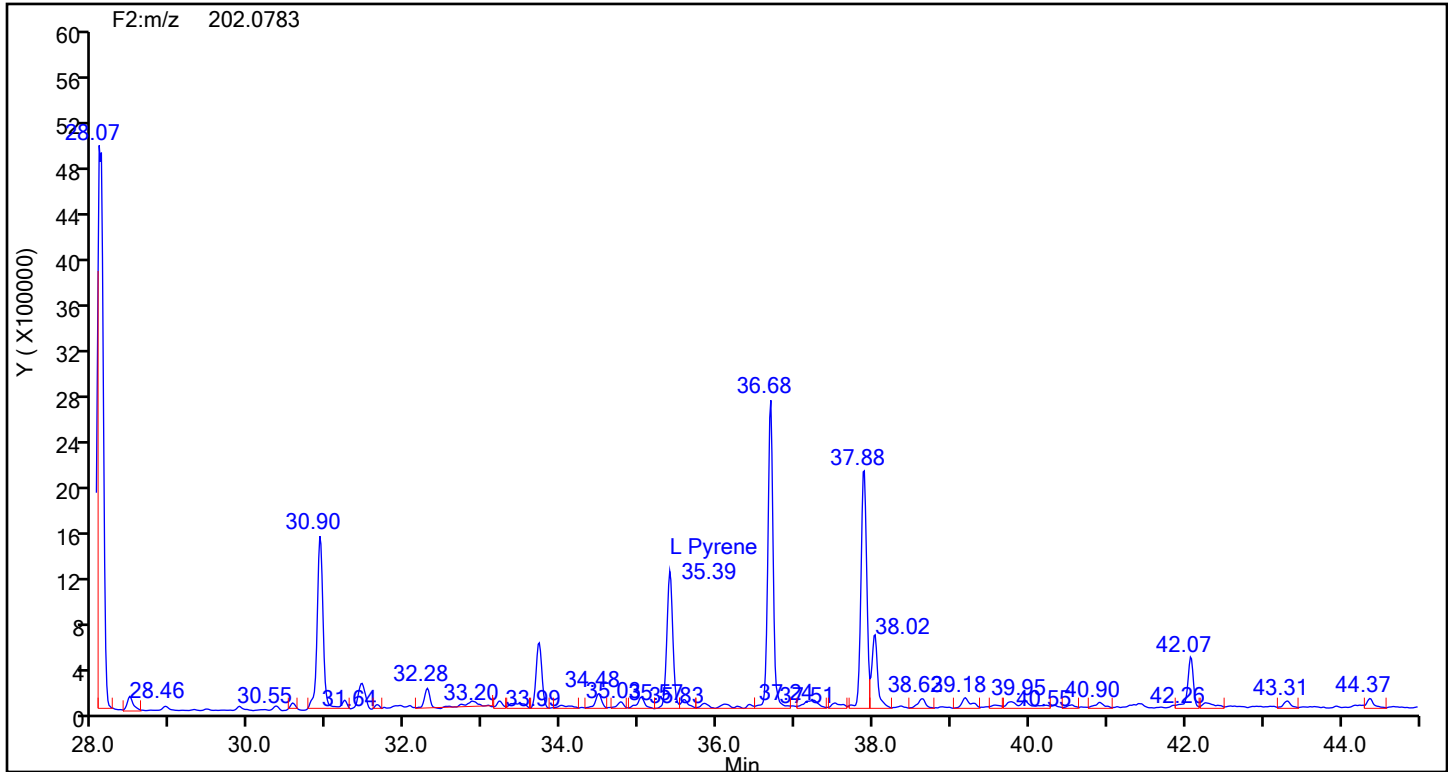


## Anthracin-d10 Standards

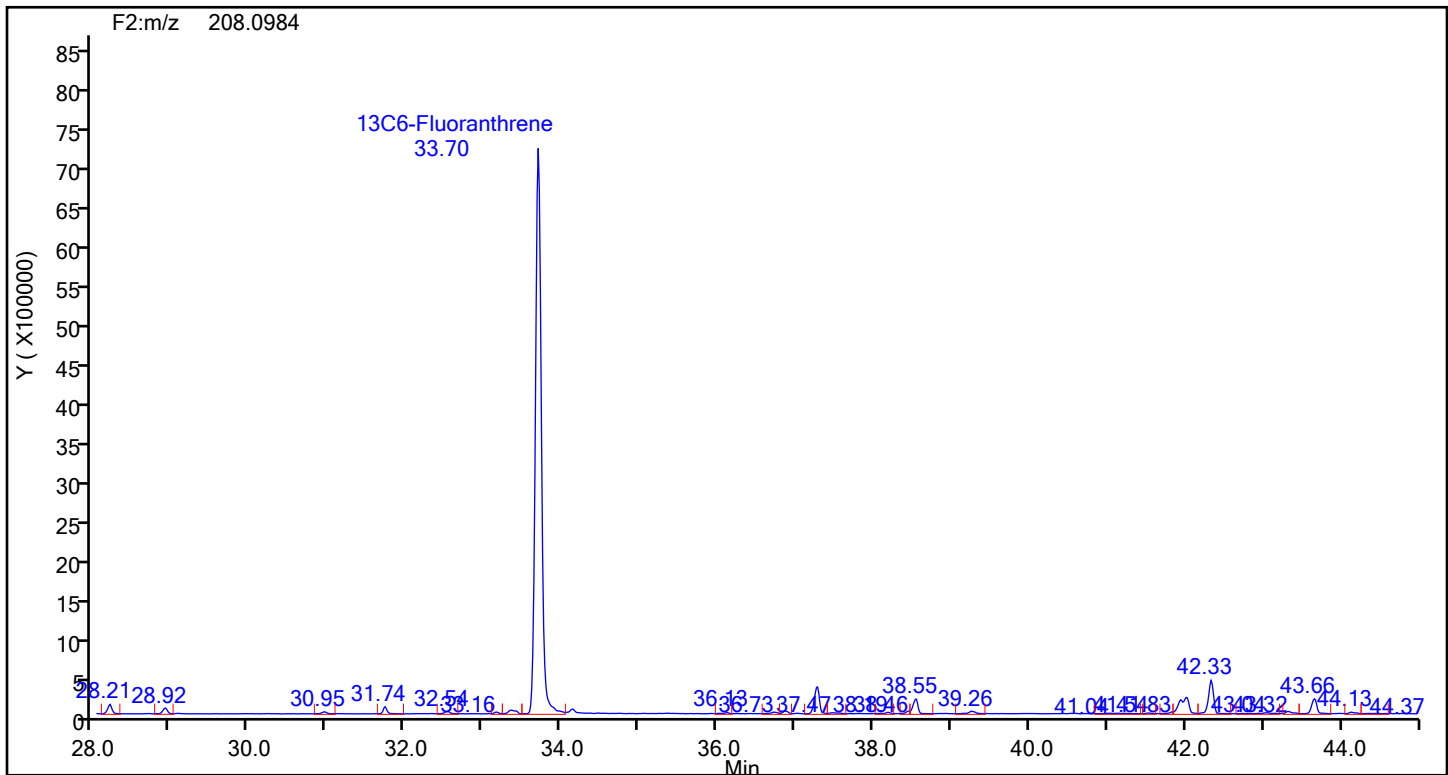


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



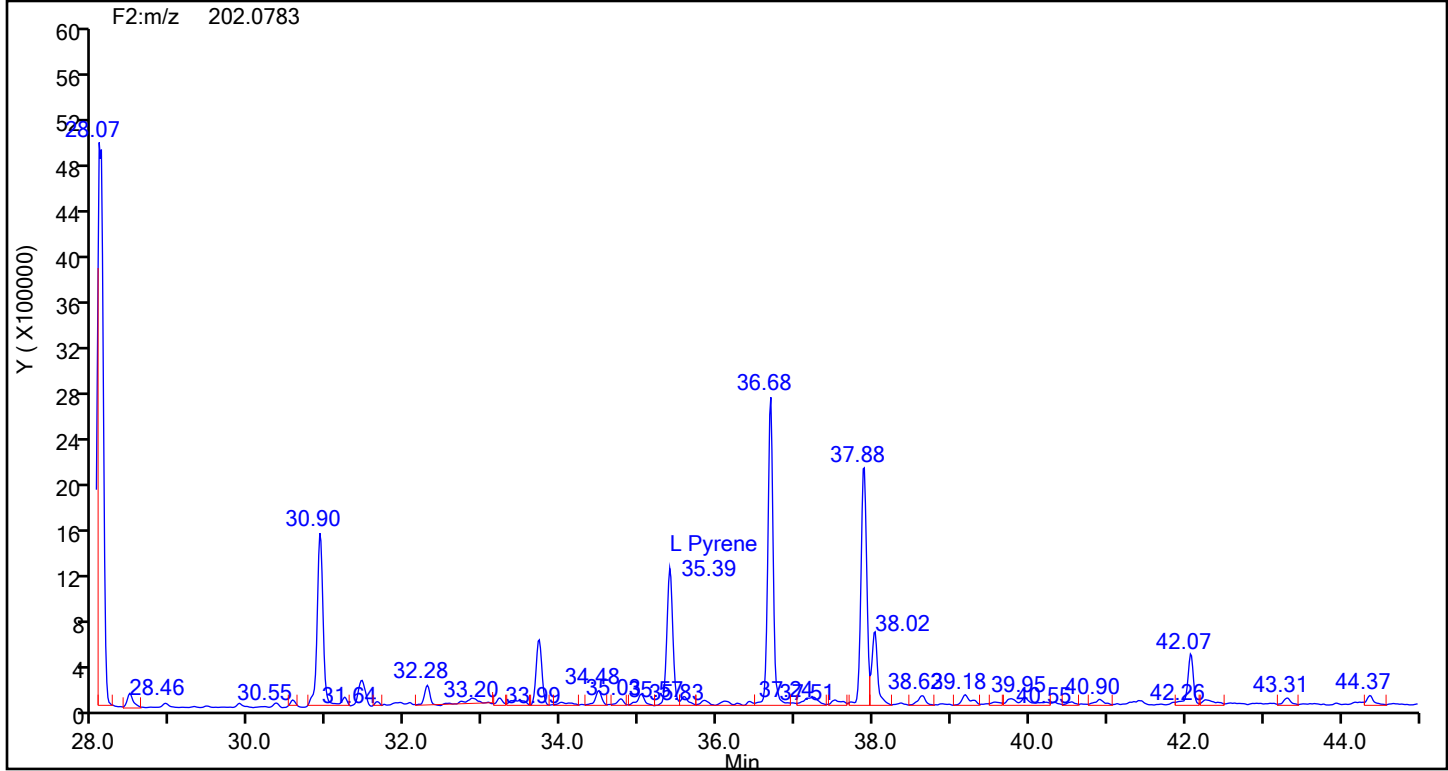
## Fluoranthene Standards



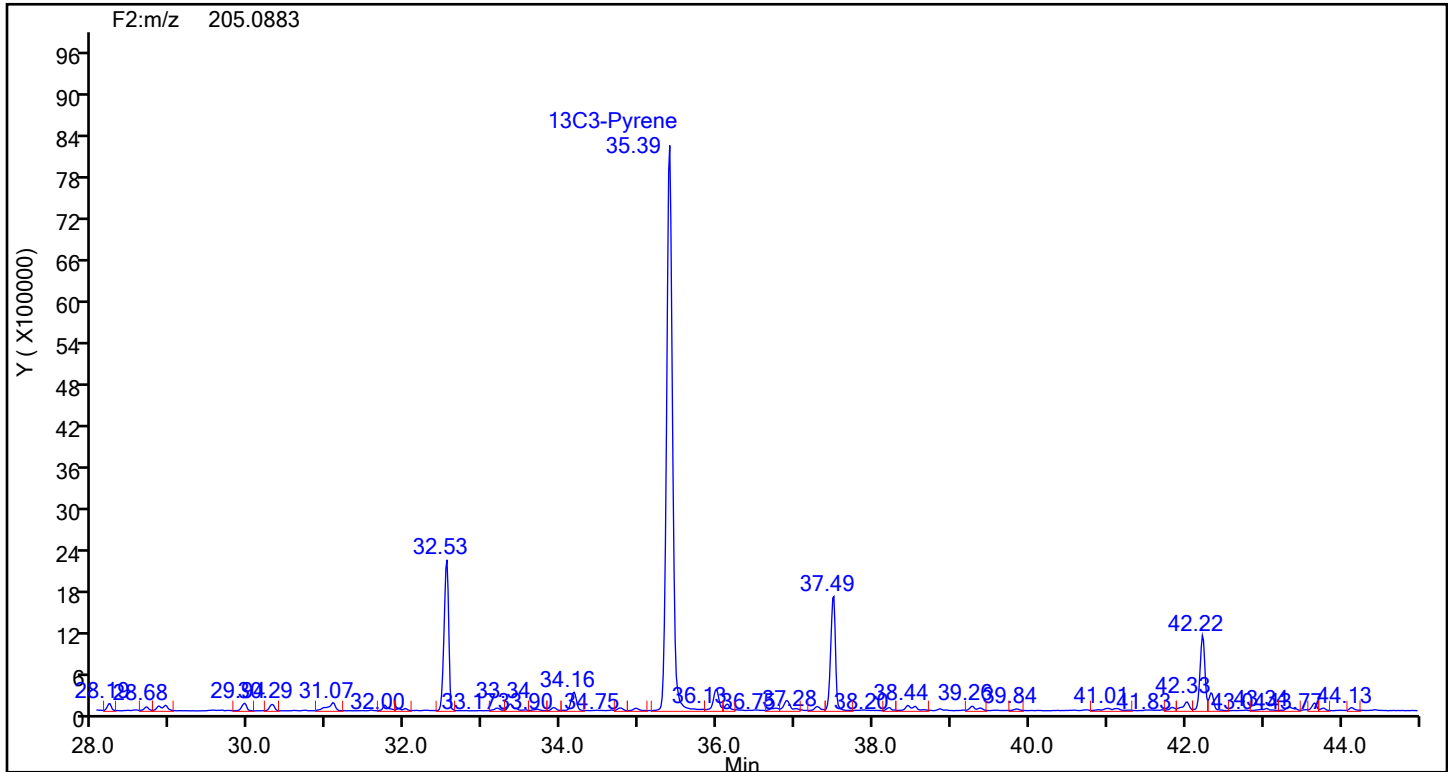
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



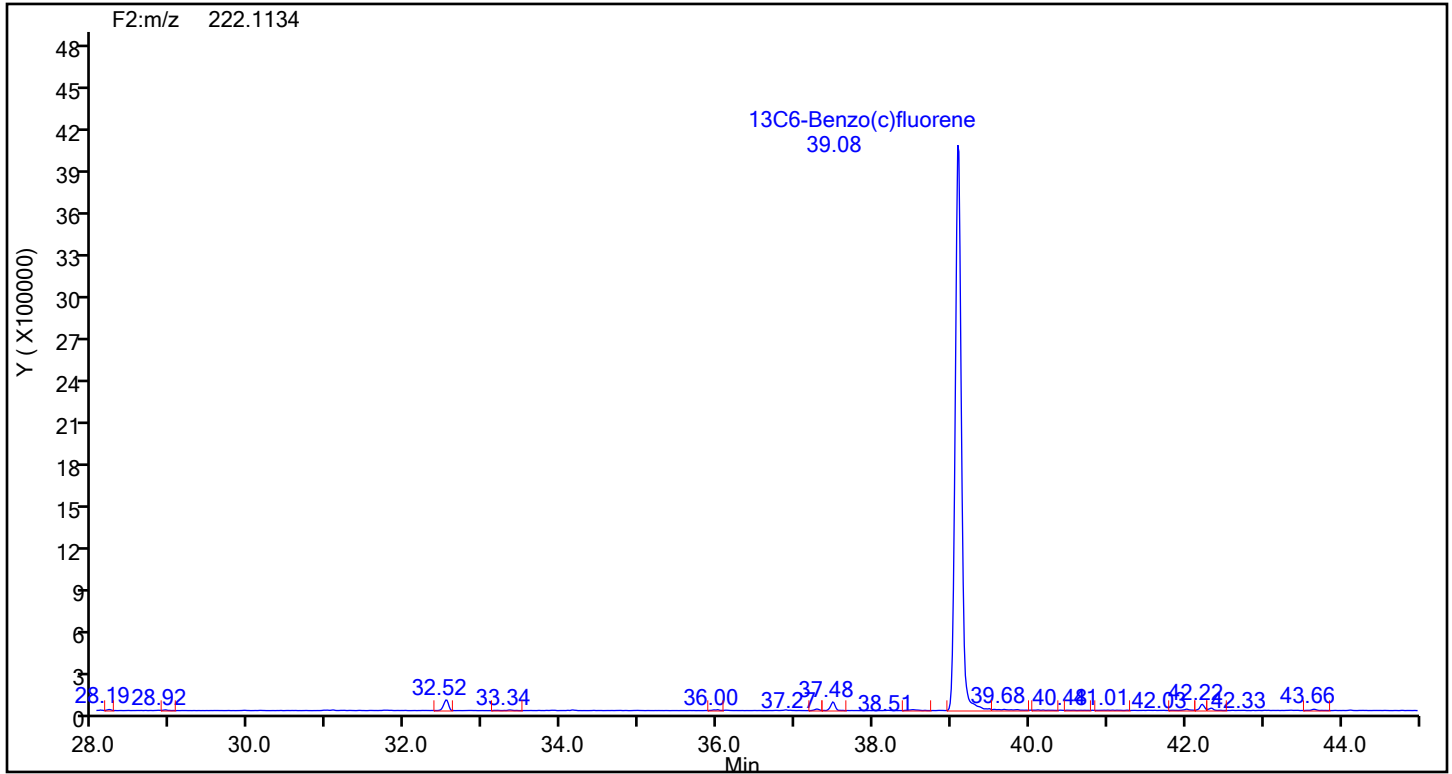
## Pyrene Standards



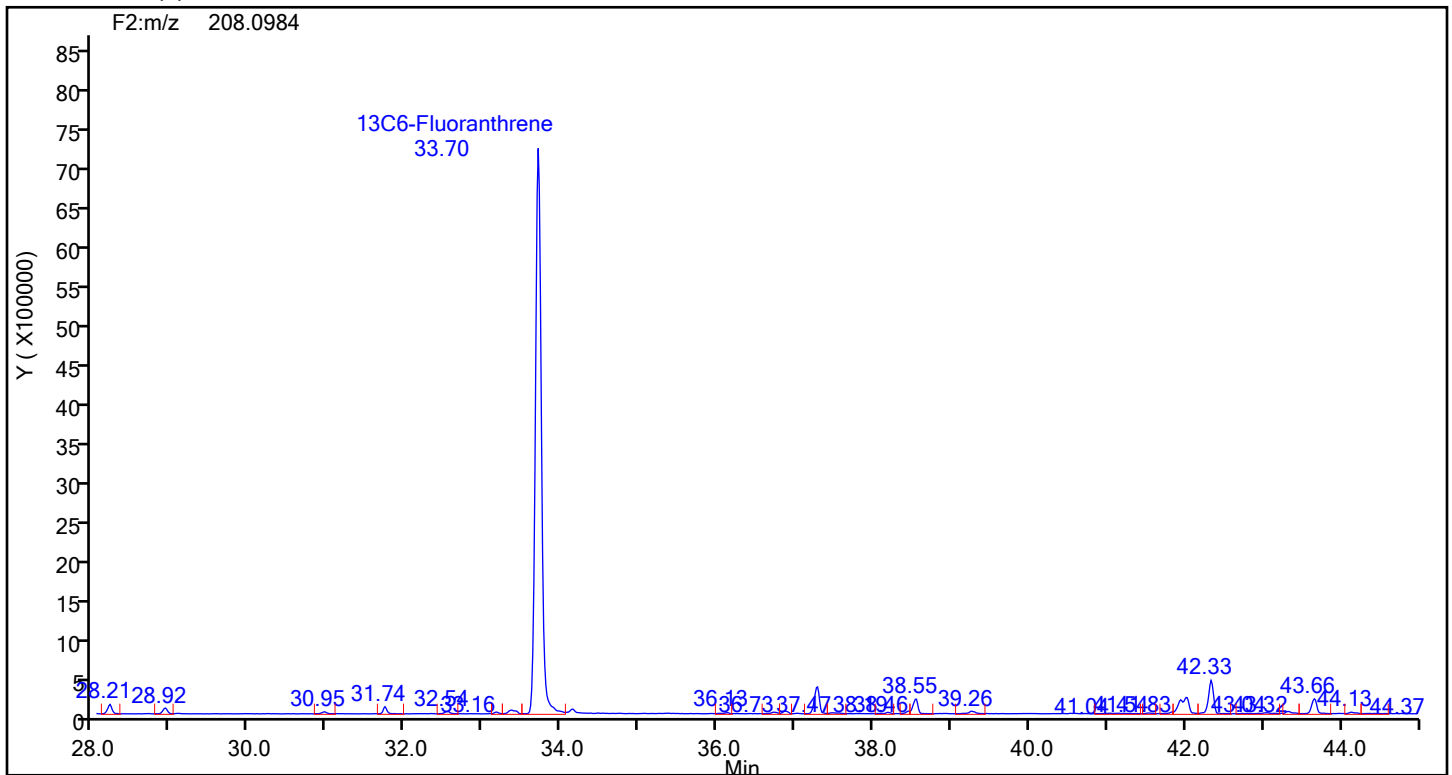
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



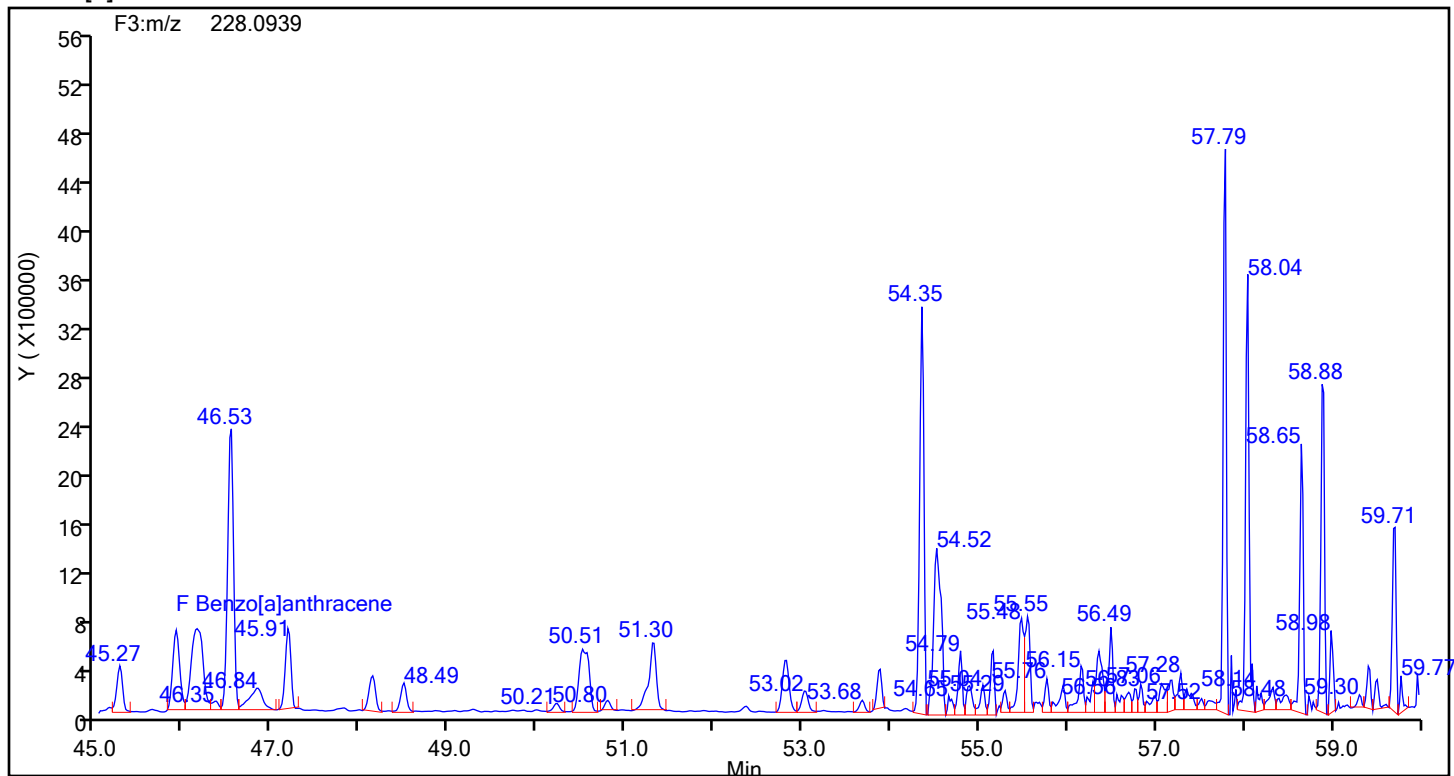
## 13C6-Benzo(c)fluorene Standards



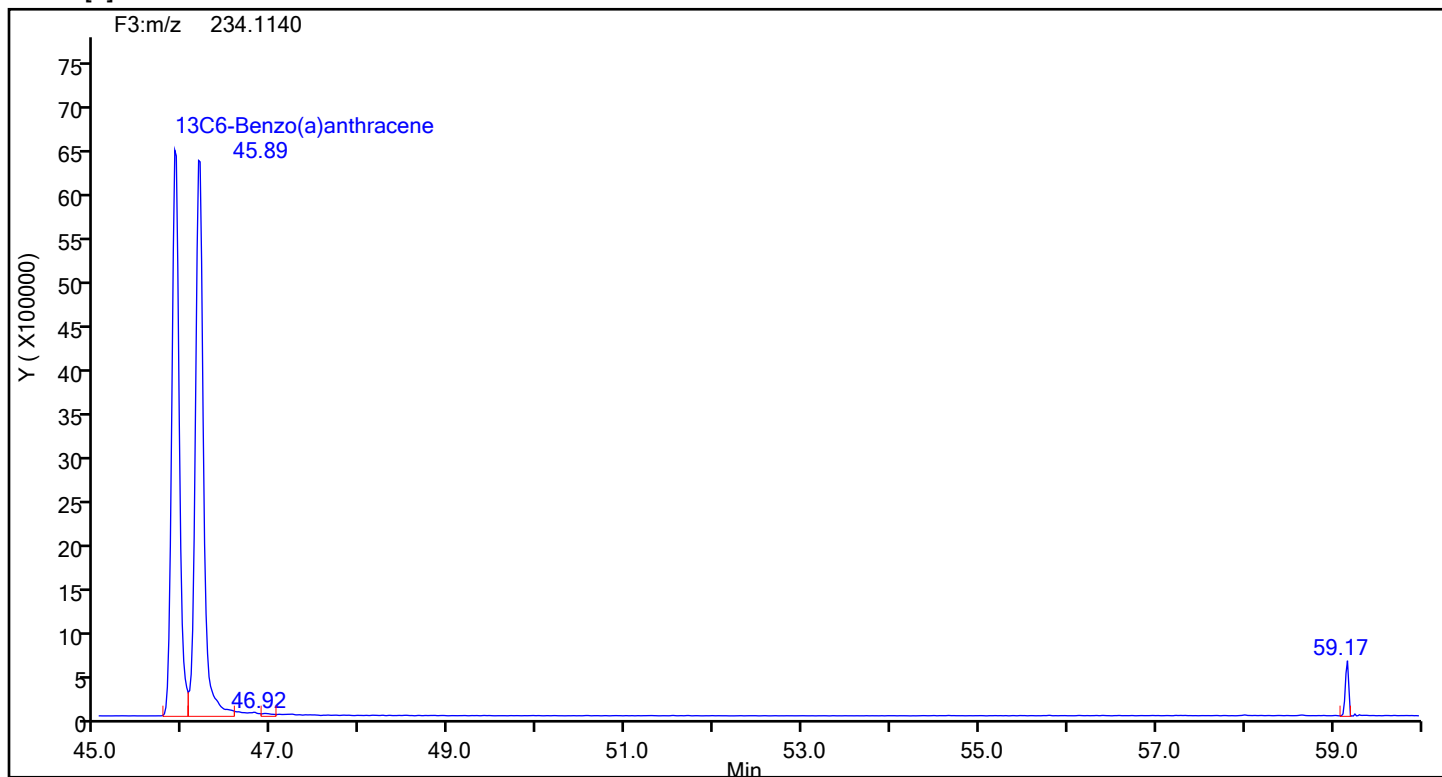
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



## Benzo[a]anthracene Standards



## Eurofins Knoxville

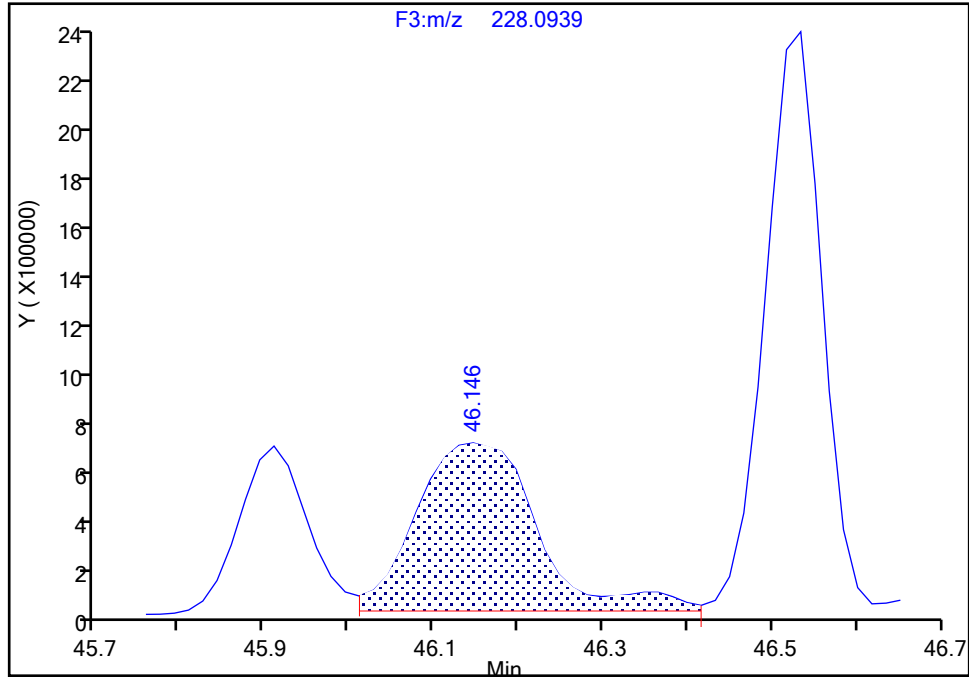
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-4-F Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Chrysene, CAS: 218-01-9

Signal: 1

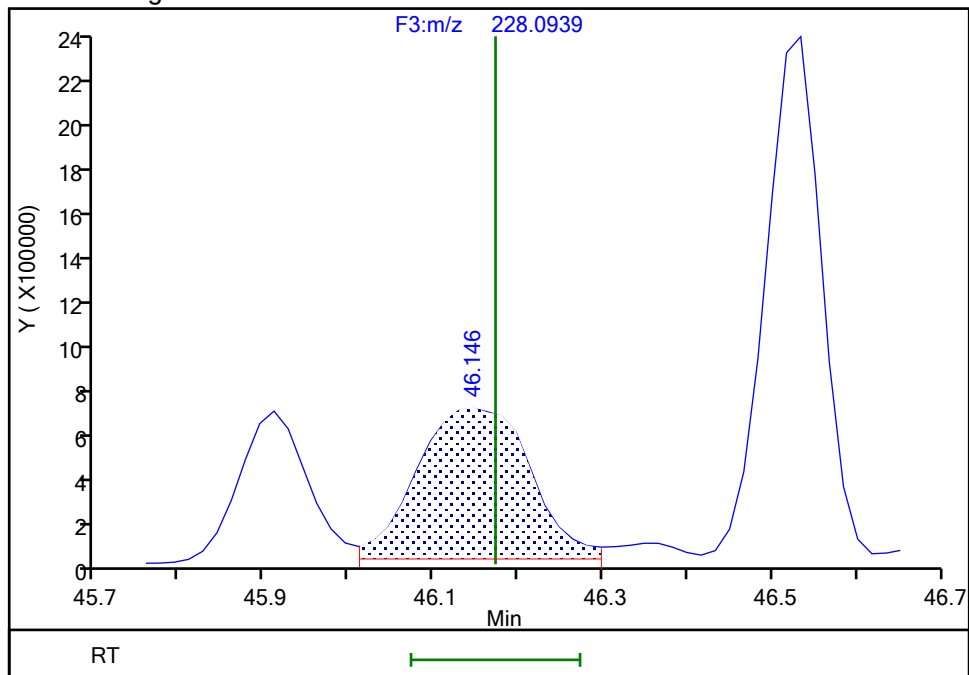
RT: 46.15  
Area: 6553741  
Amount: 16.438724  
Amount Units: pg/ul

## Processing Integration Results



RT: 46.15  
Area: 6229262  
Amount: 15.624835  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 26-Jul-2024 09:19:34 -04:00:00 (UTC)

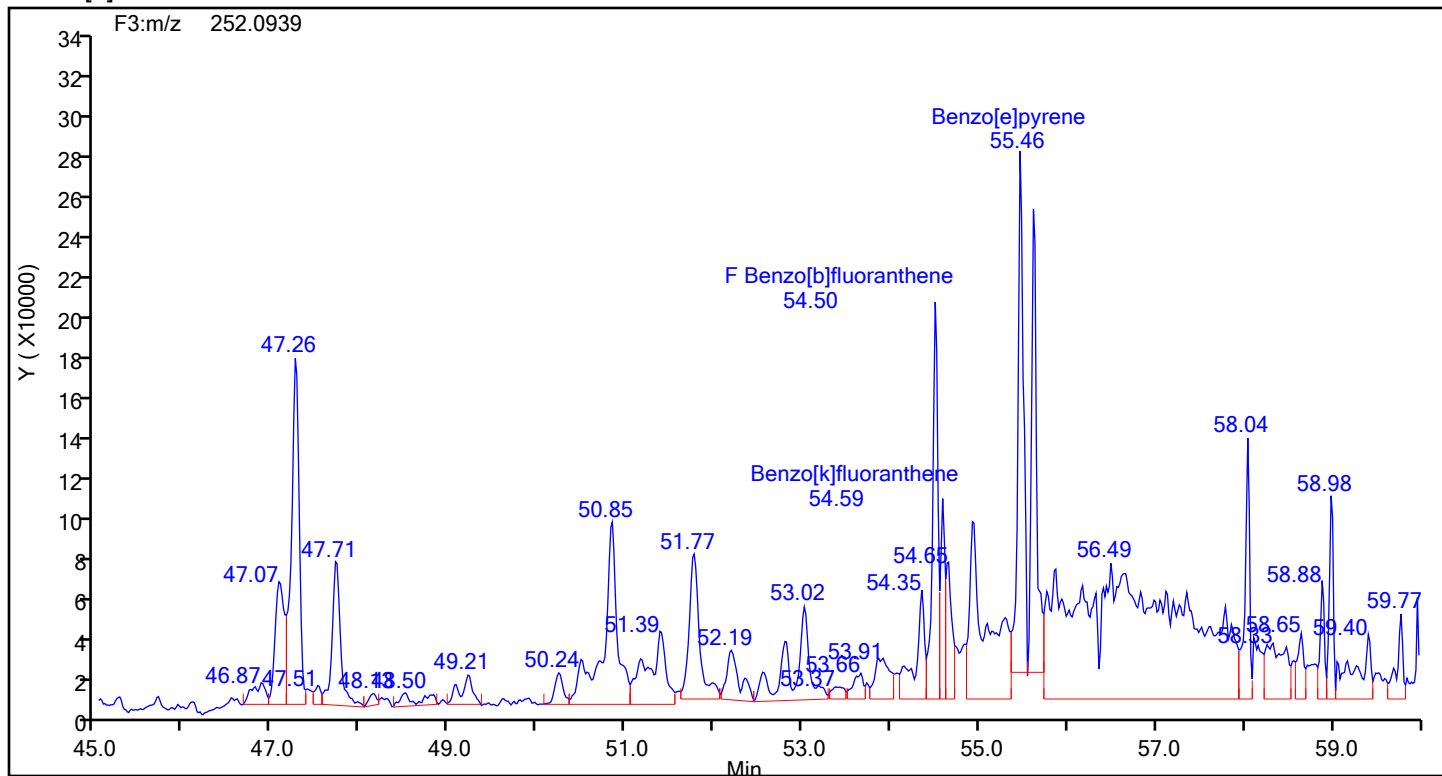
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

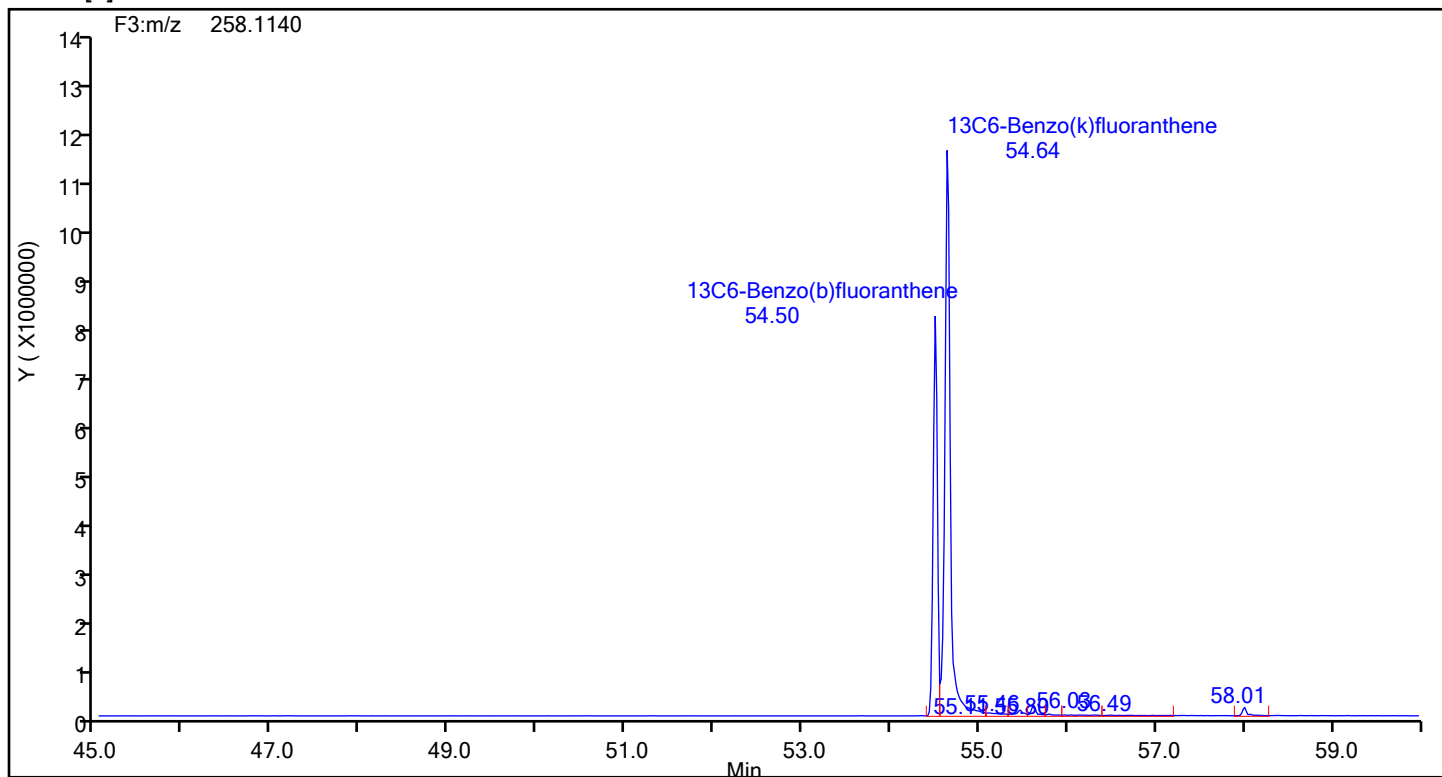
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards



## Eurofins Knoxville

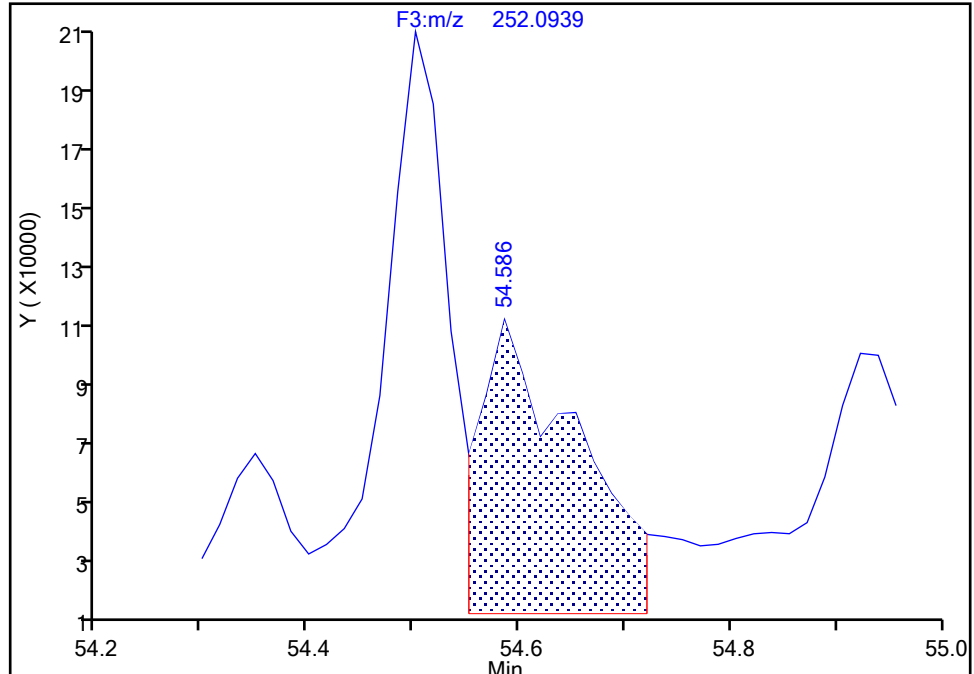
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-4-F Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

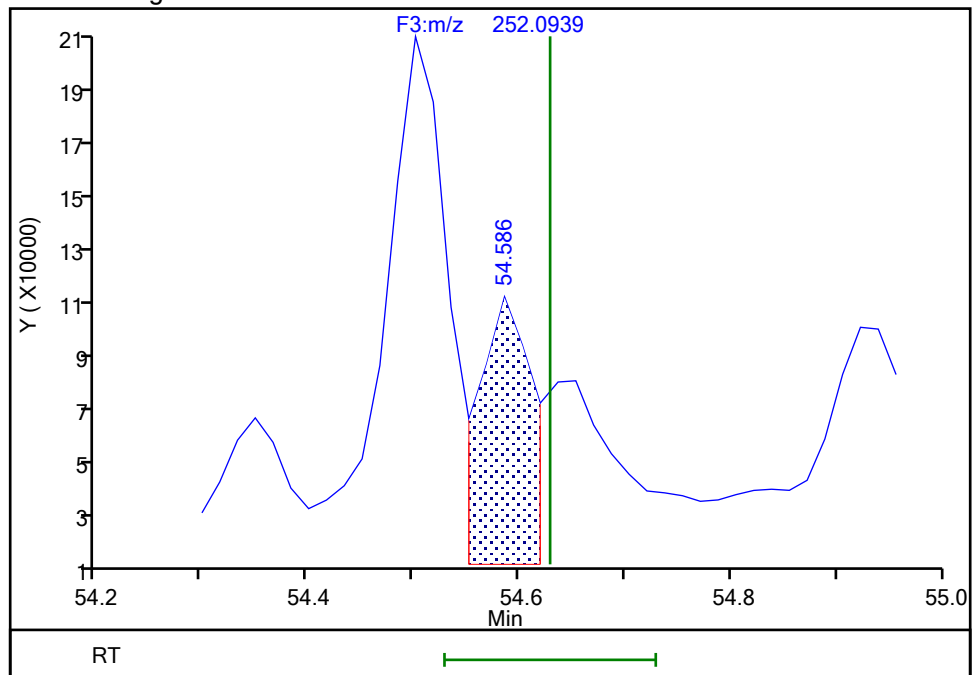
RT: 54.59  
Area: 617654  
Amount: 1.078490  
Amount Units: pg/ul

## Processing Integration Results



RT: 54.59  
Area: 369641  
Amount: 0.645433  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 26-Jul-2024 09:22:12 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

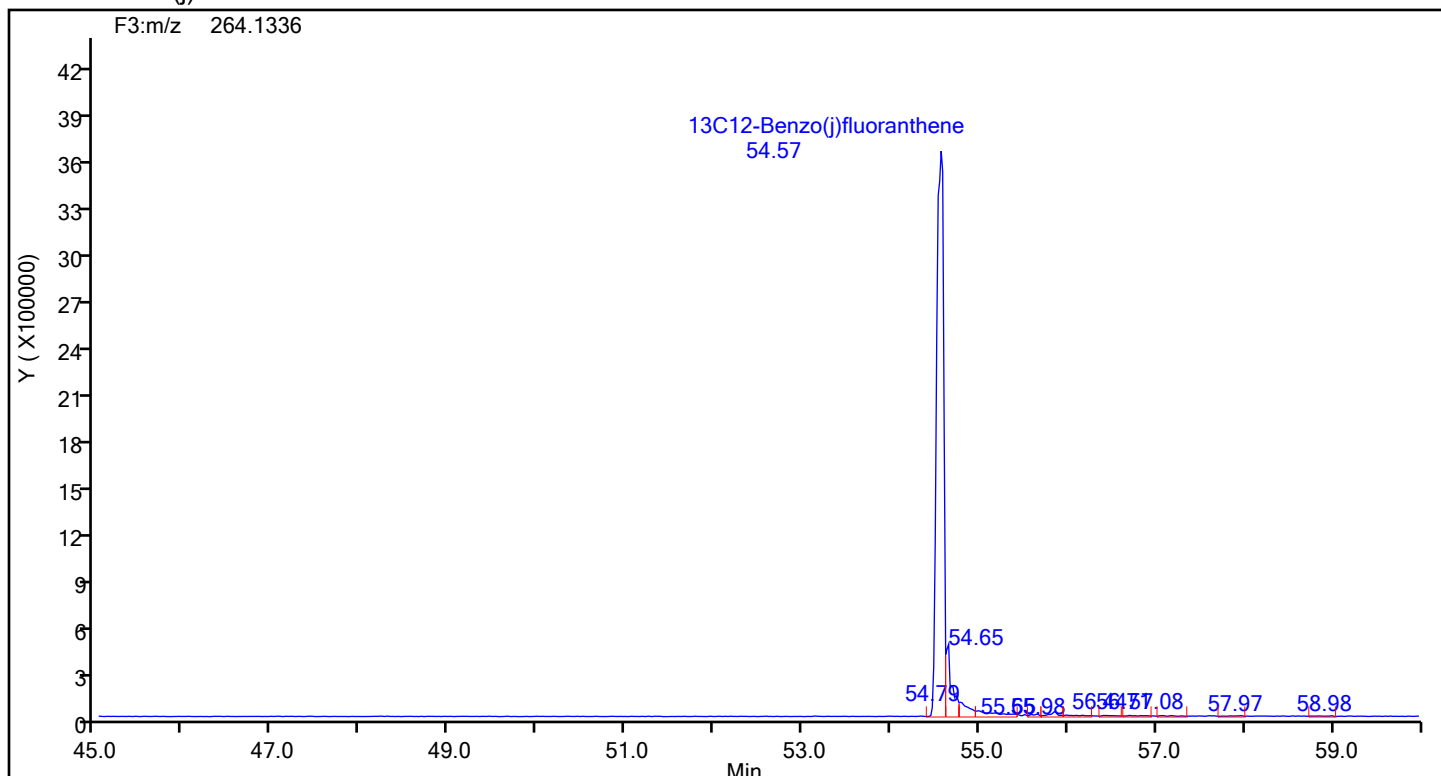
Audit Reason: Incomplete Integration



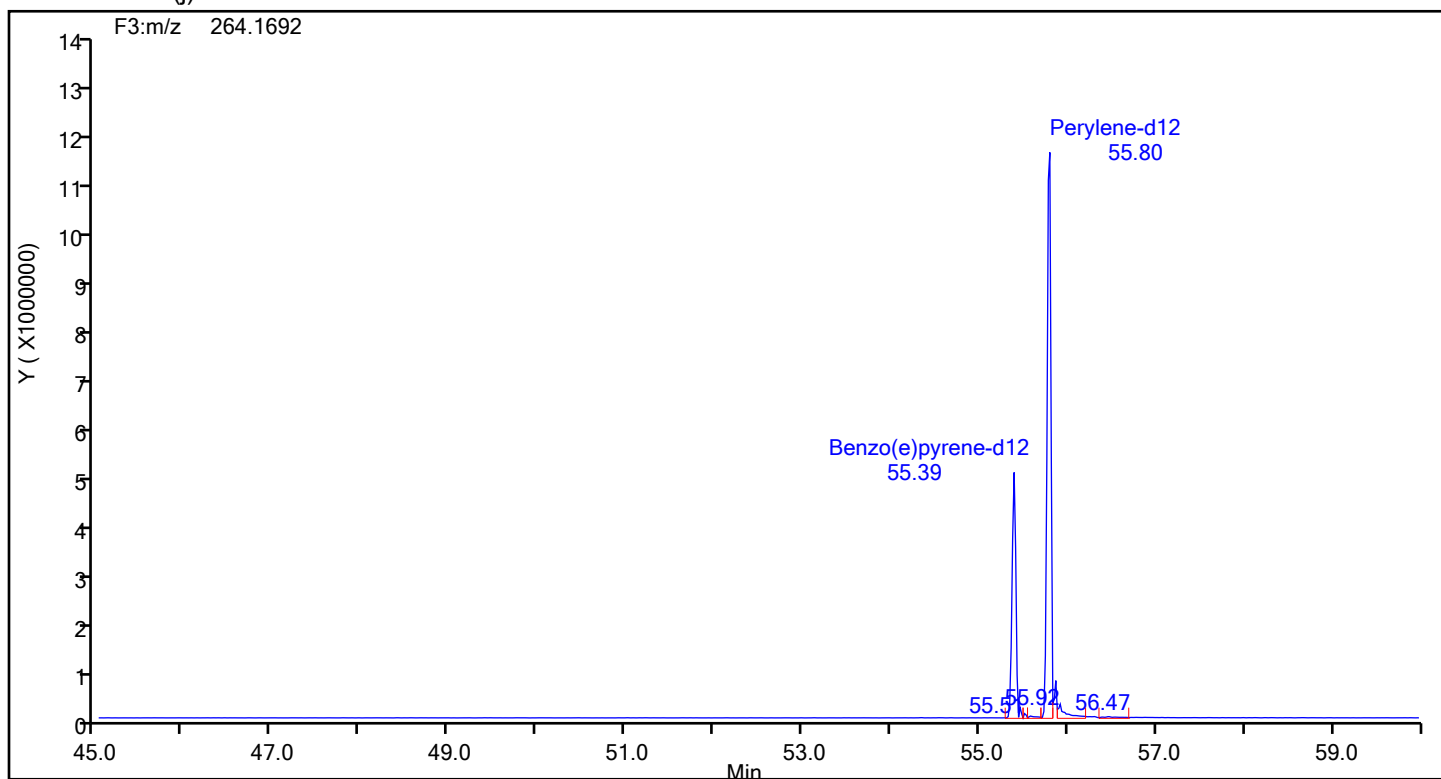
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



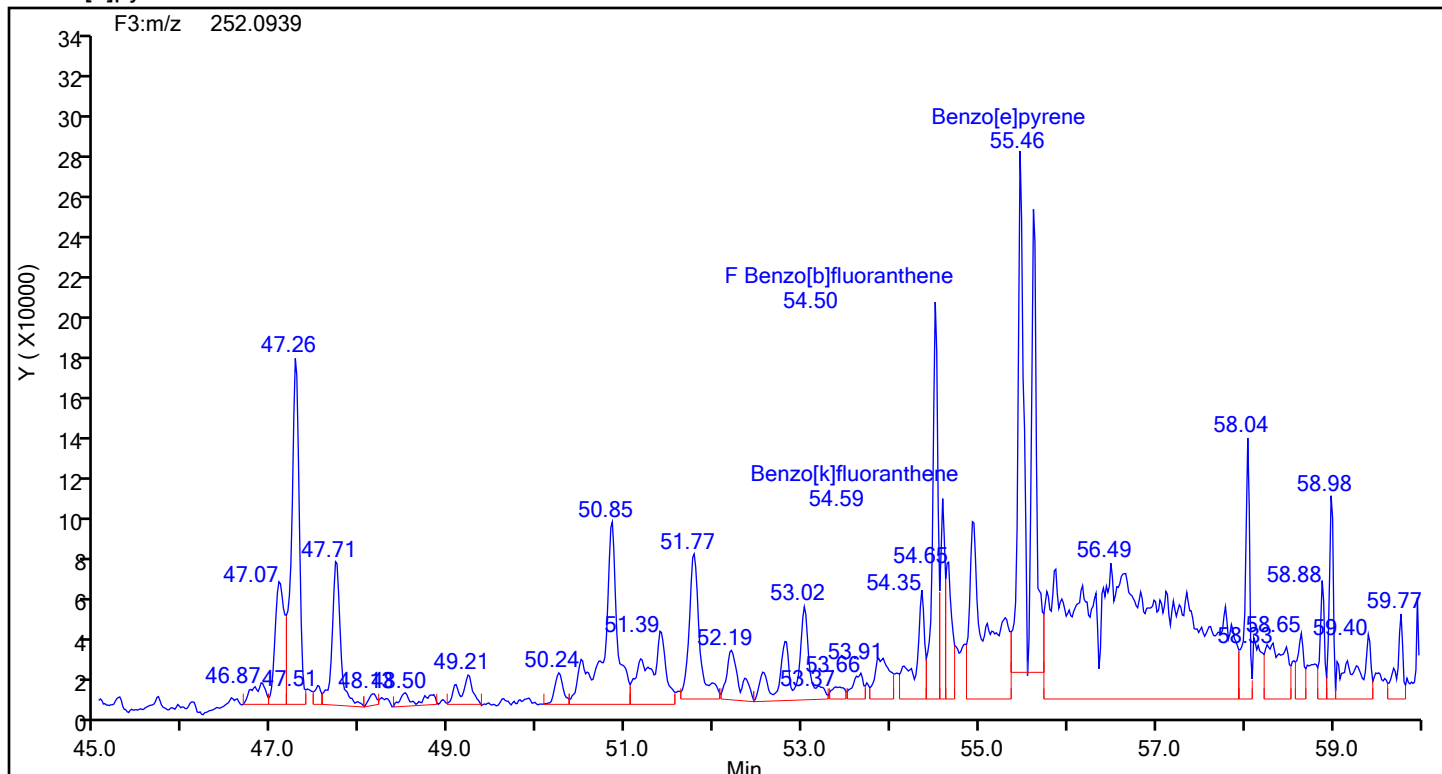
## 13C12-Benzo(j)fluoranthene Standards



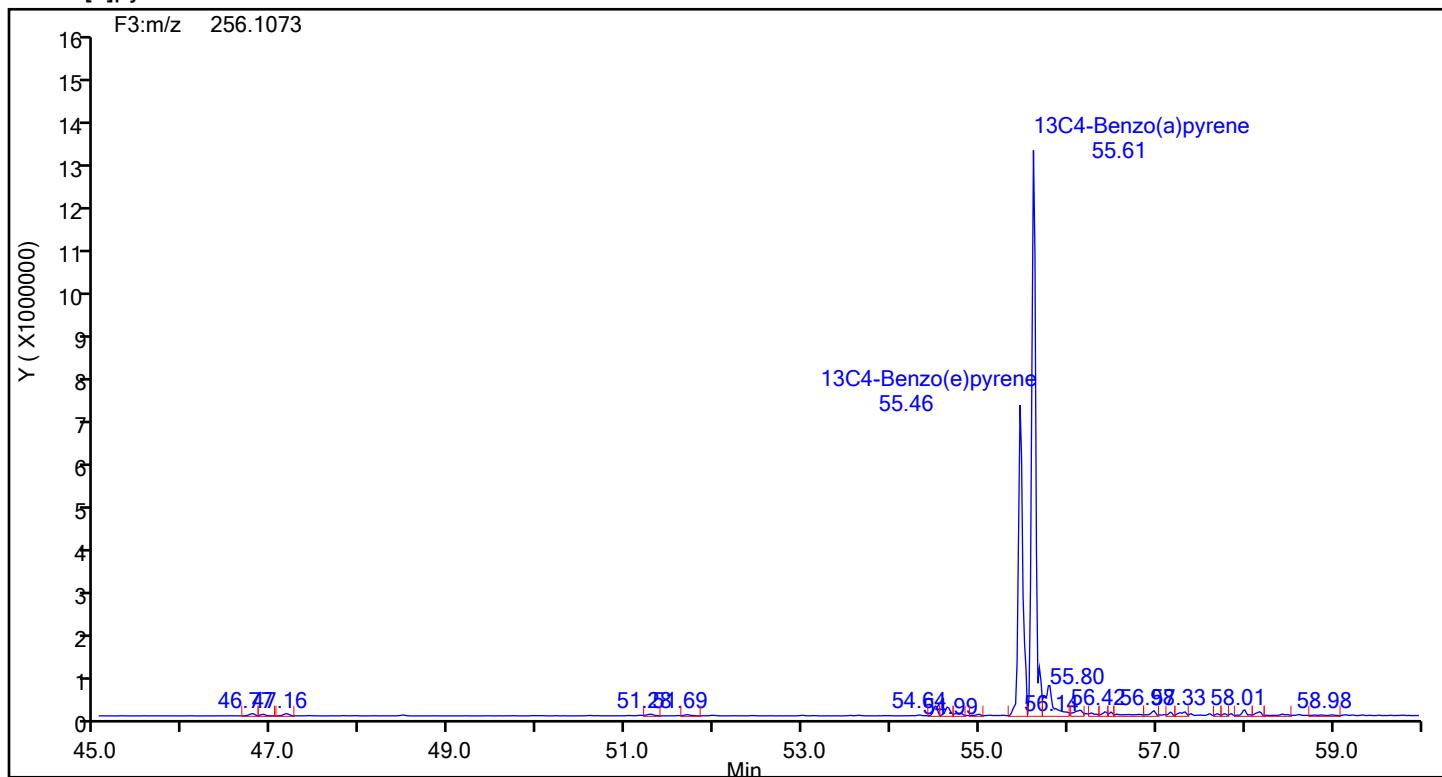
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



## Benzo[e]pyrene Standards



## Eurofins Knoxville

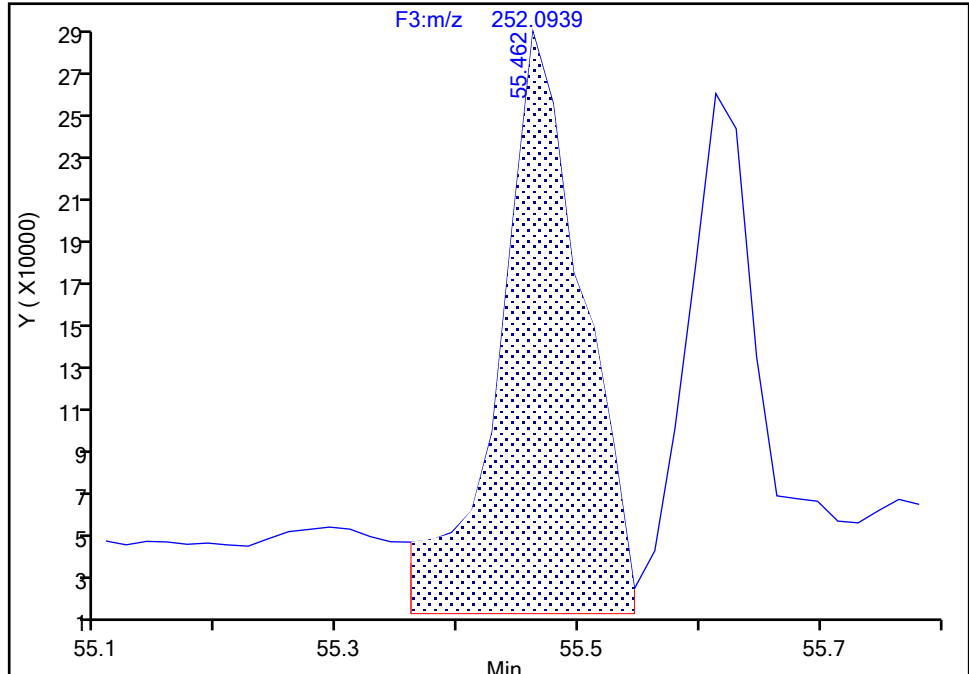
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-4-F Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1\IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

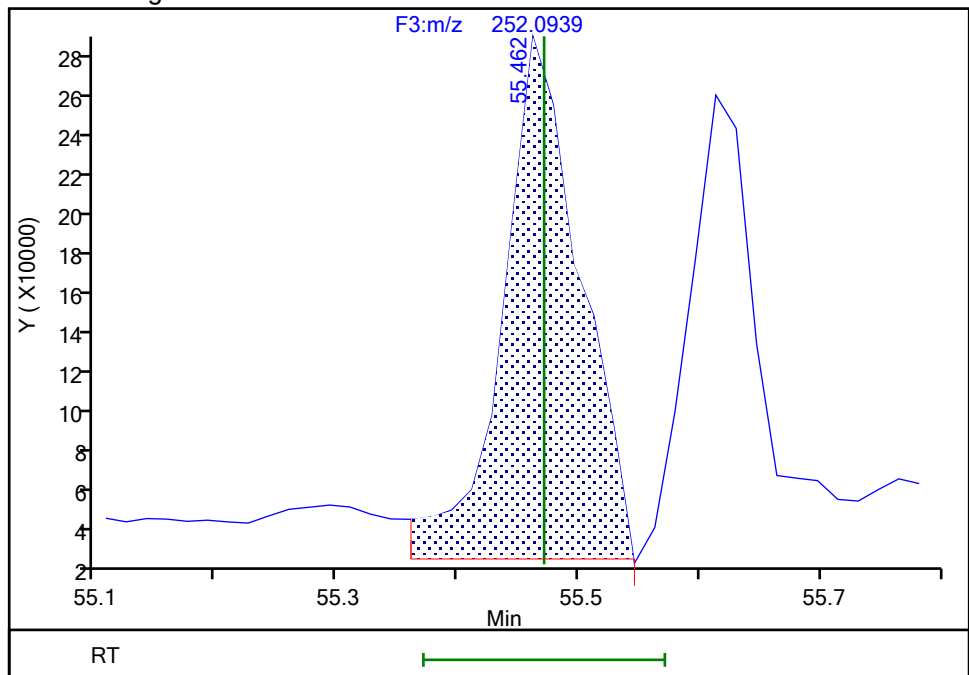
RT: 55.46  
Area: 1289874  
Amount: 5.254123  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.46  
Area: 1147352  
Amount: 4.673579  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 26-Jul-2024 09:21:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

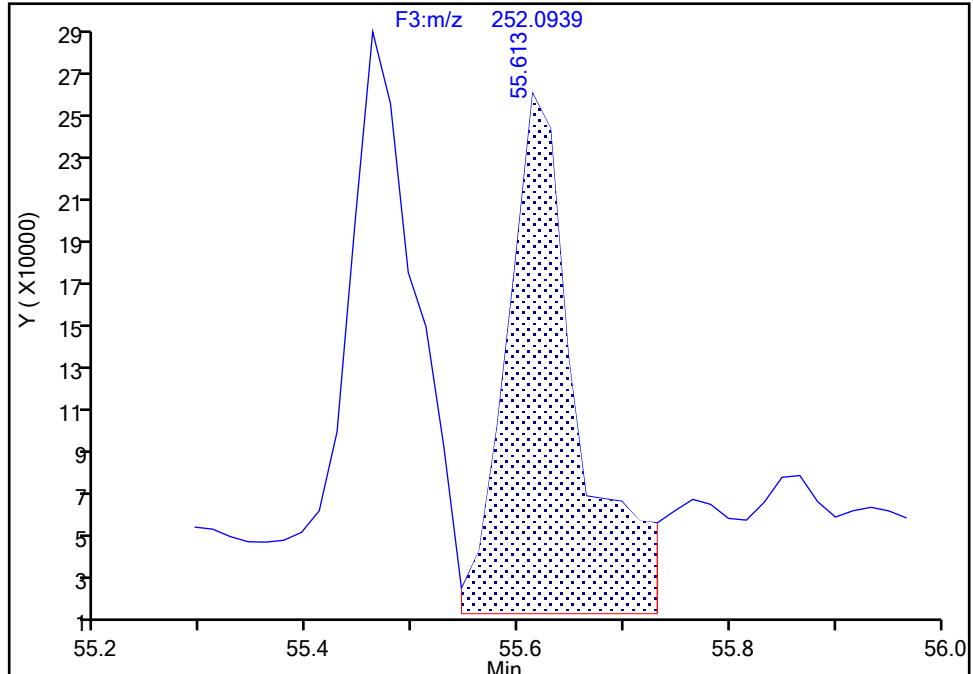
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-4-F Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

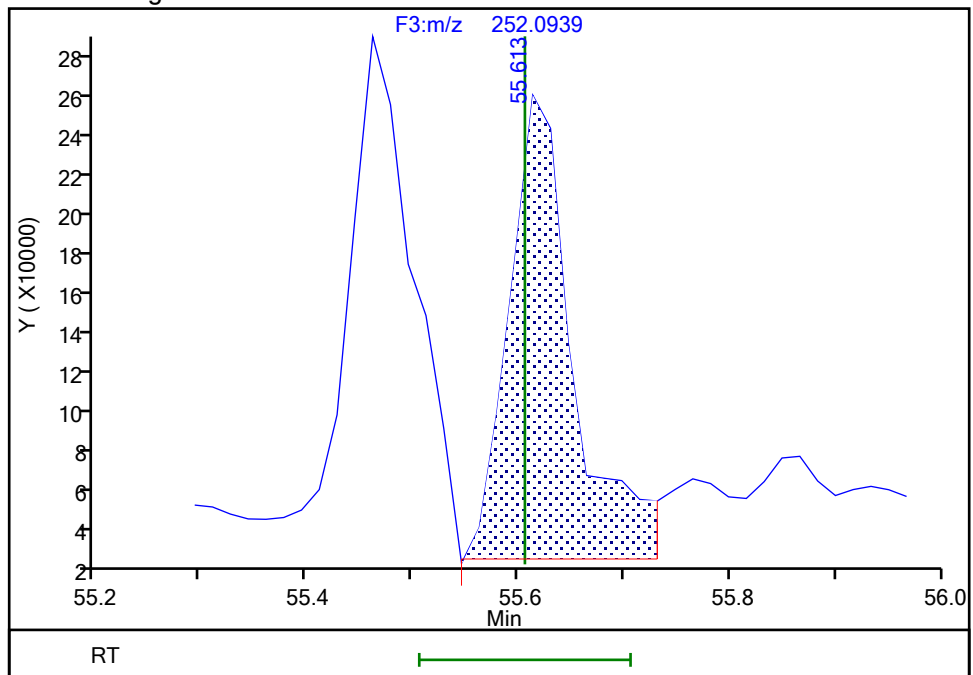
RT: 55.61  
Area: 1100239  
Amount: 2.384737  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.61  
Area: 961980  
Amount: 2.085065  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 26-Jul-2024 09:21:29 -04:00:00 (UTC)

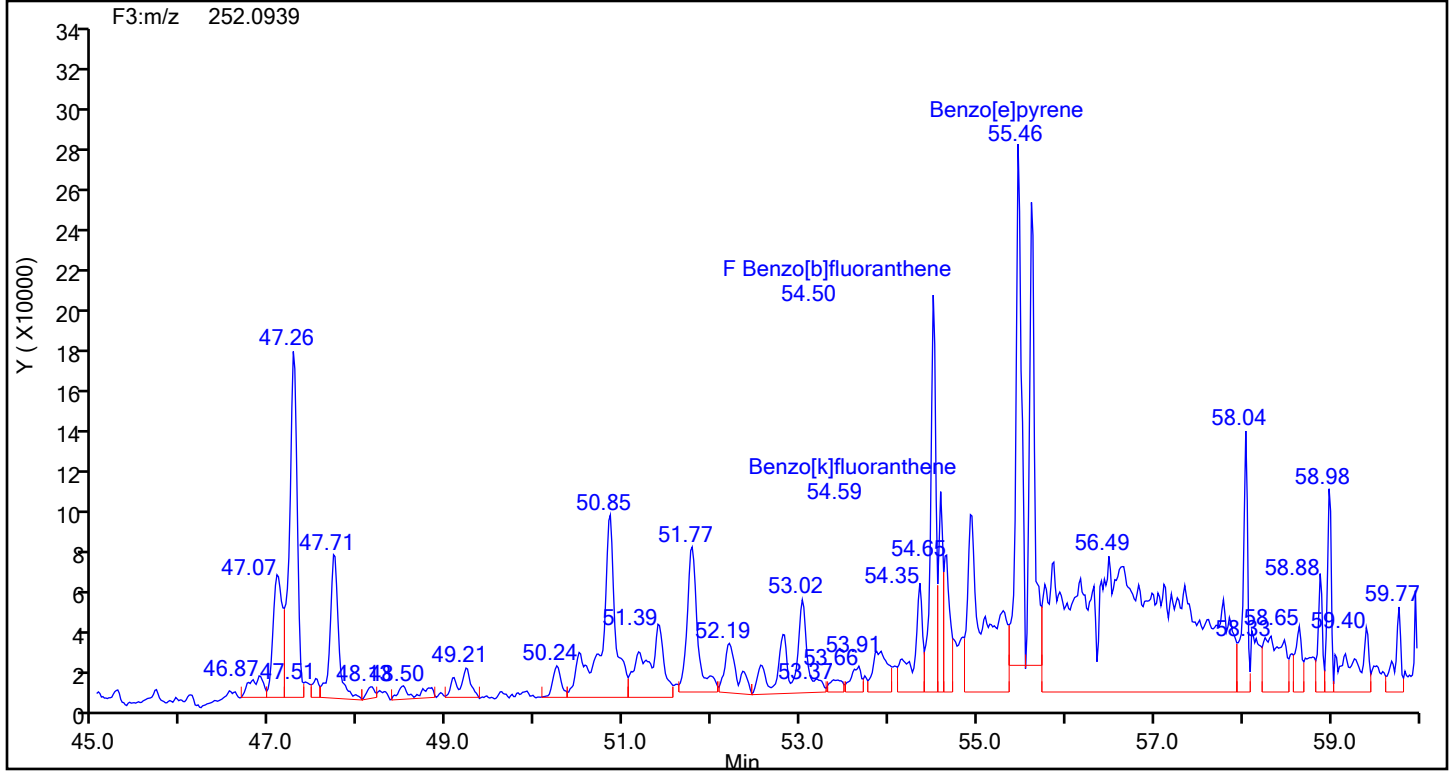
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

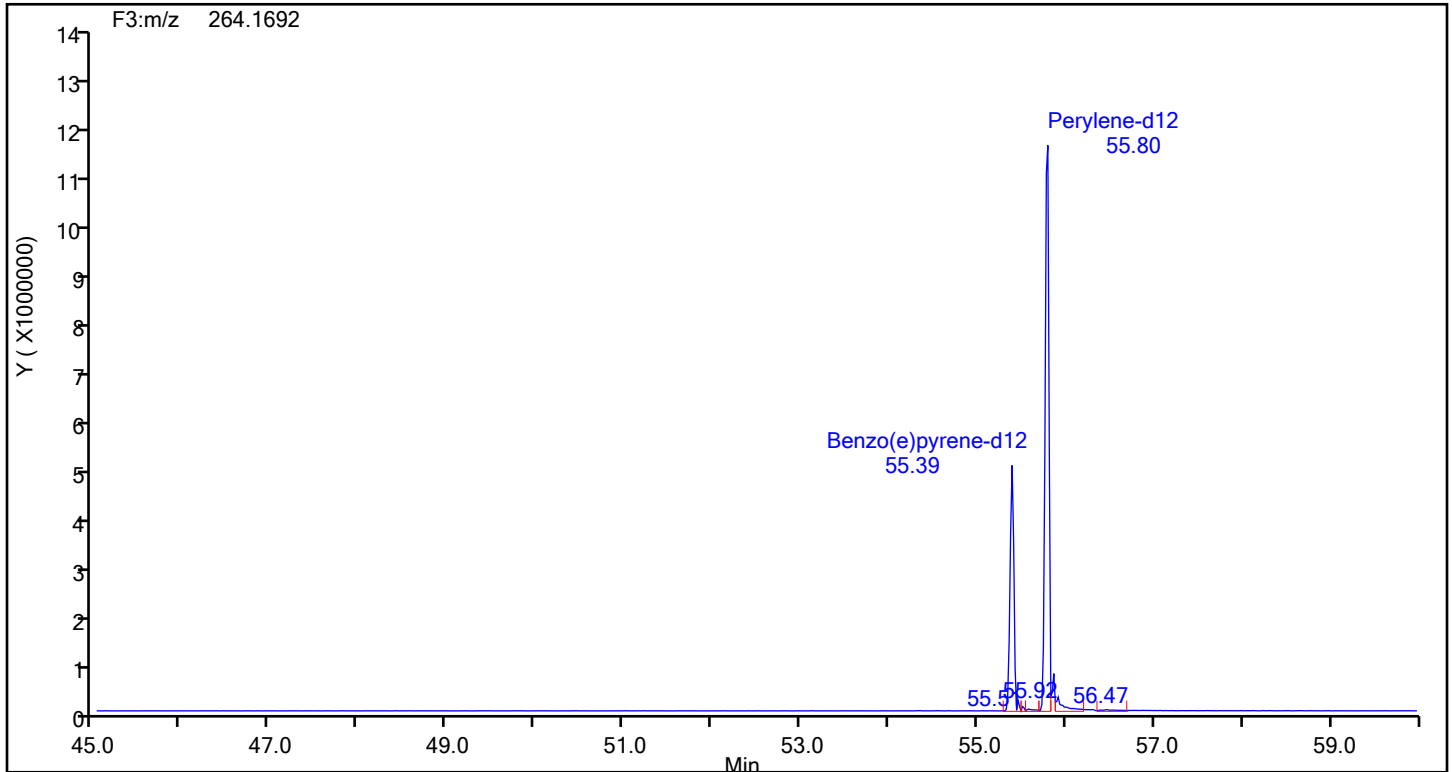
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Perylene



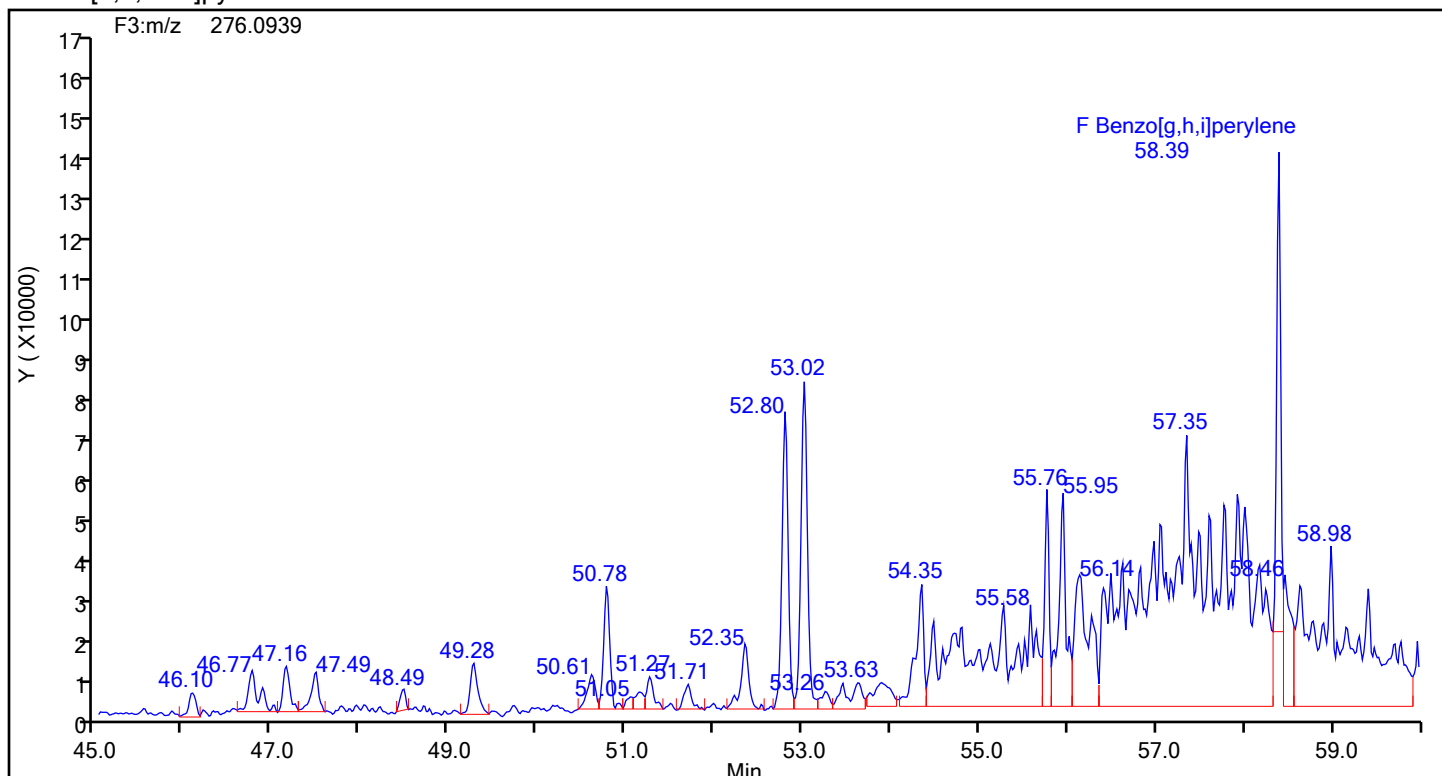
## Perylene Standards



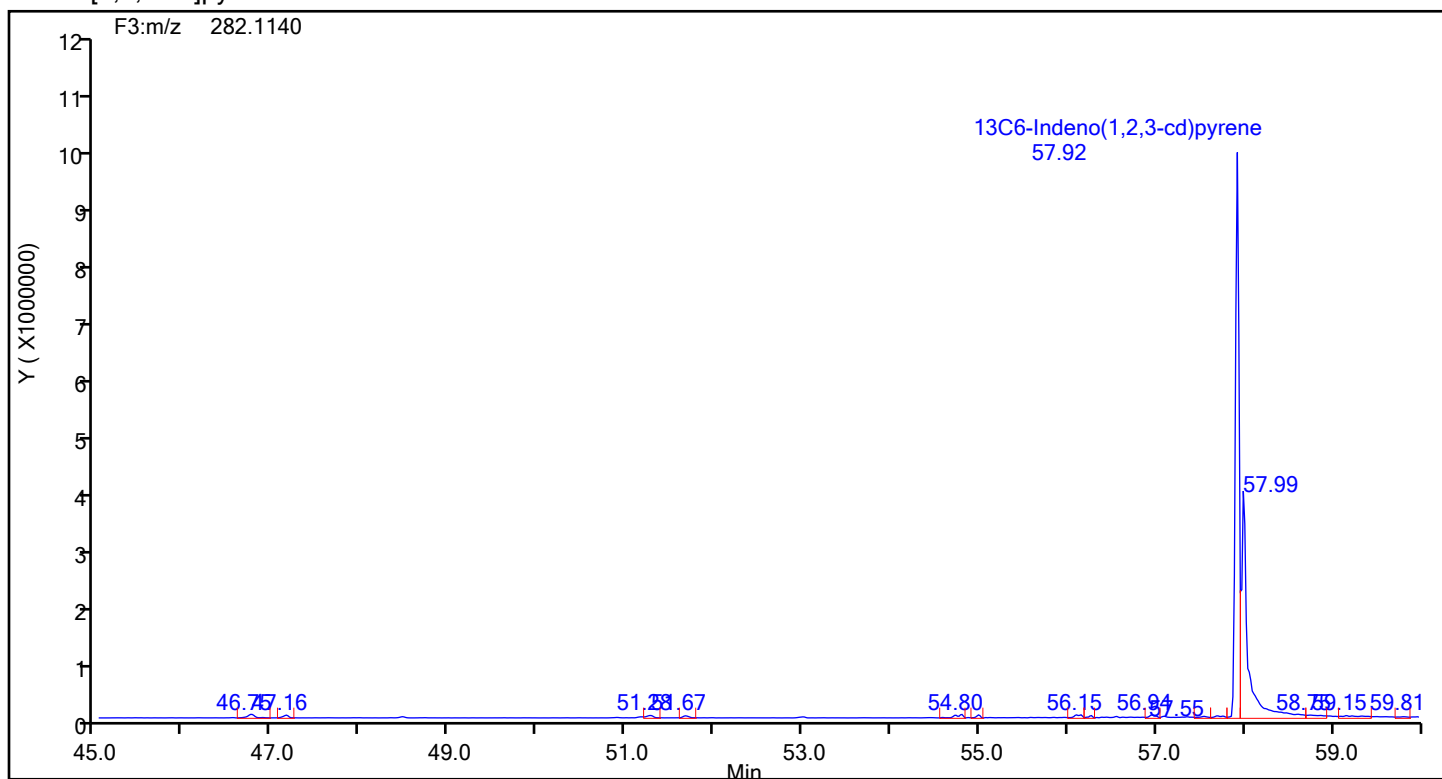
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



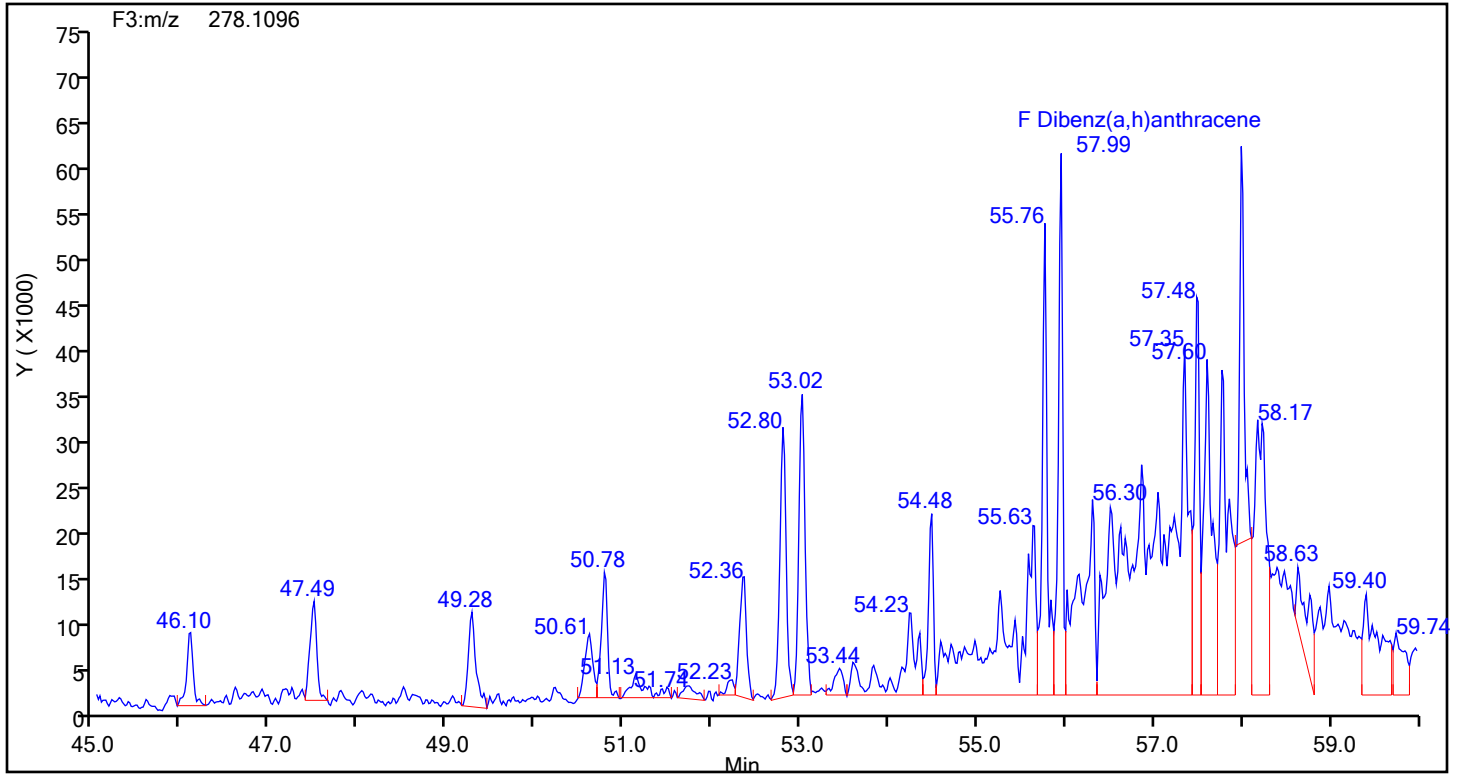
## Indeno[1,2,3-cd]pyrene Standards



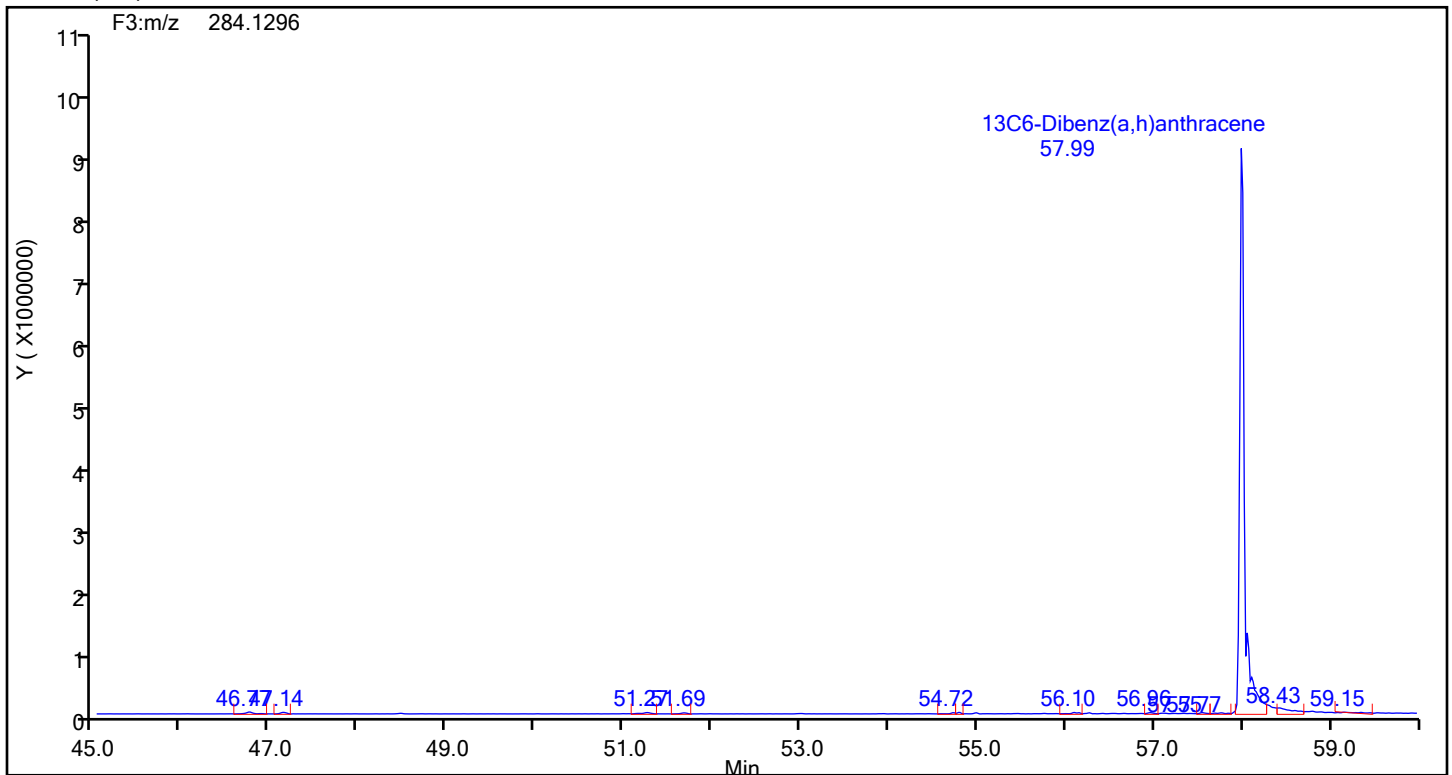
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

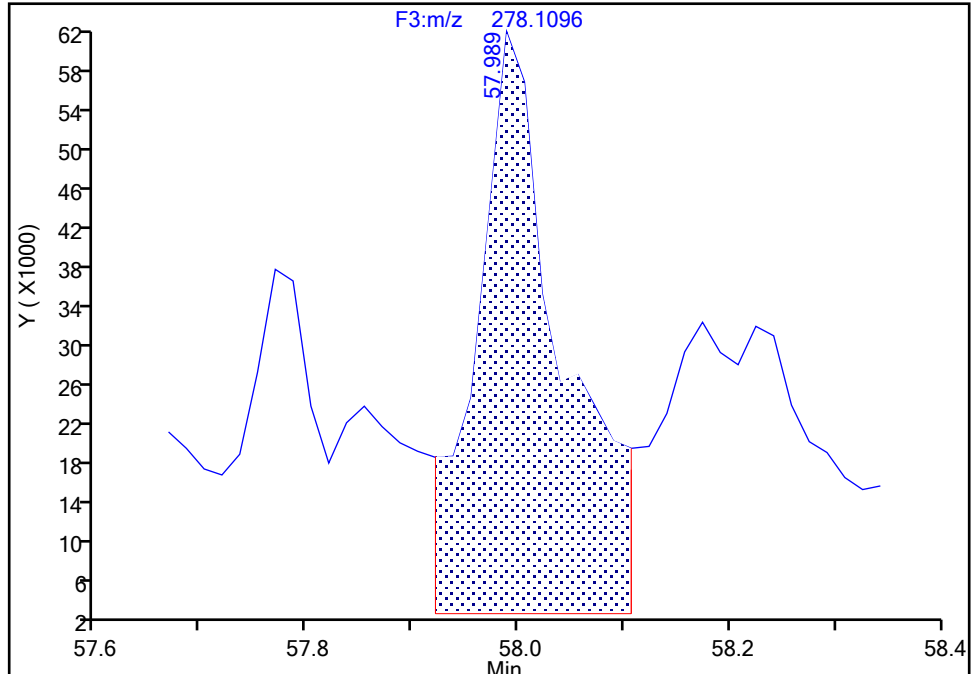
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-4-F Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1\IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

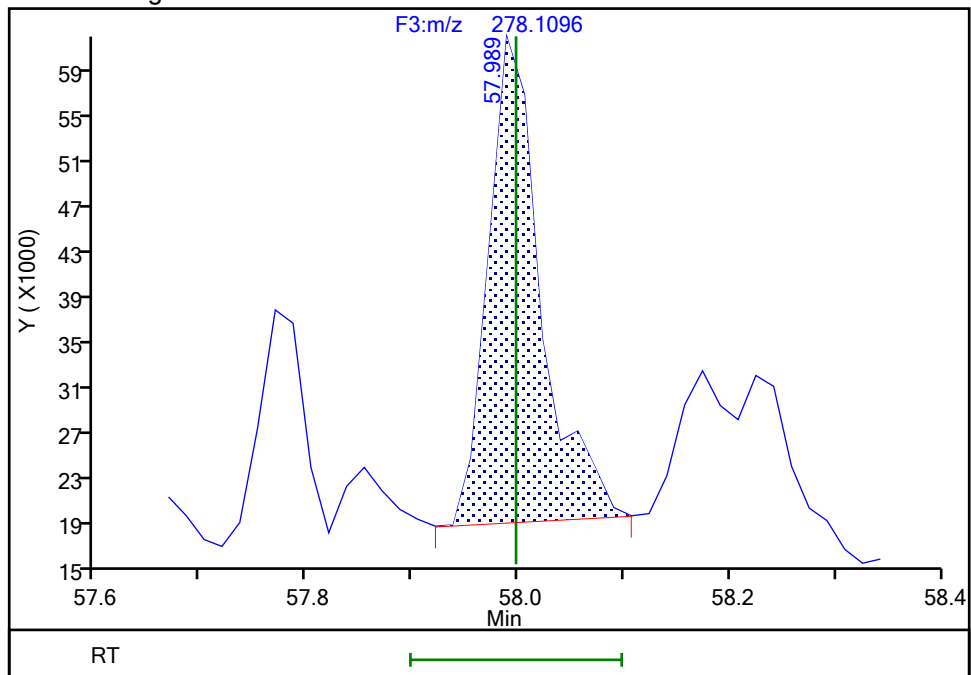
RT: 57.99  
Area: 330467  
Amount: 0.870924  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.99  
Area: 148138  
Amount: 0.390408  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 26-Jul-2024 09:20:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

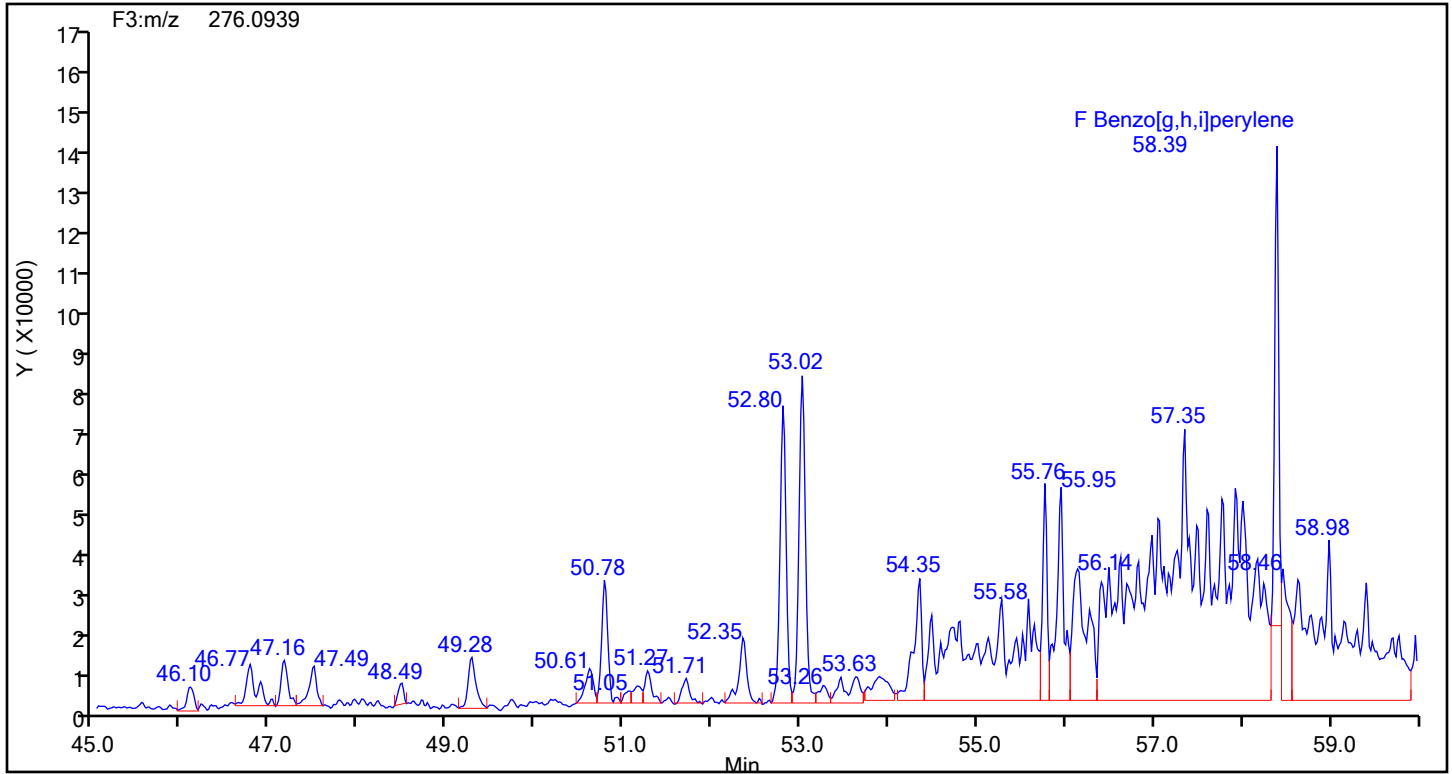
Audit Reason: Incomplete Integration



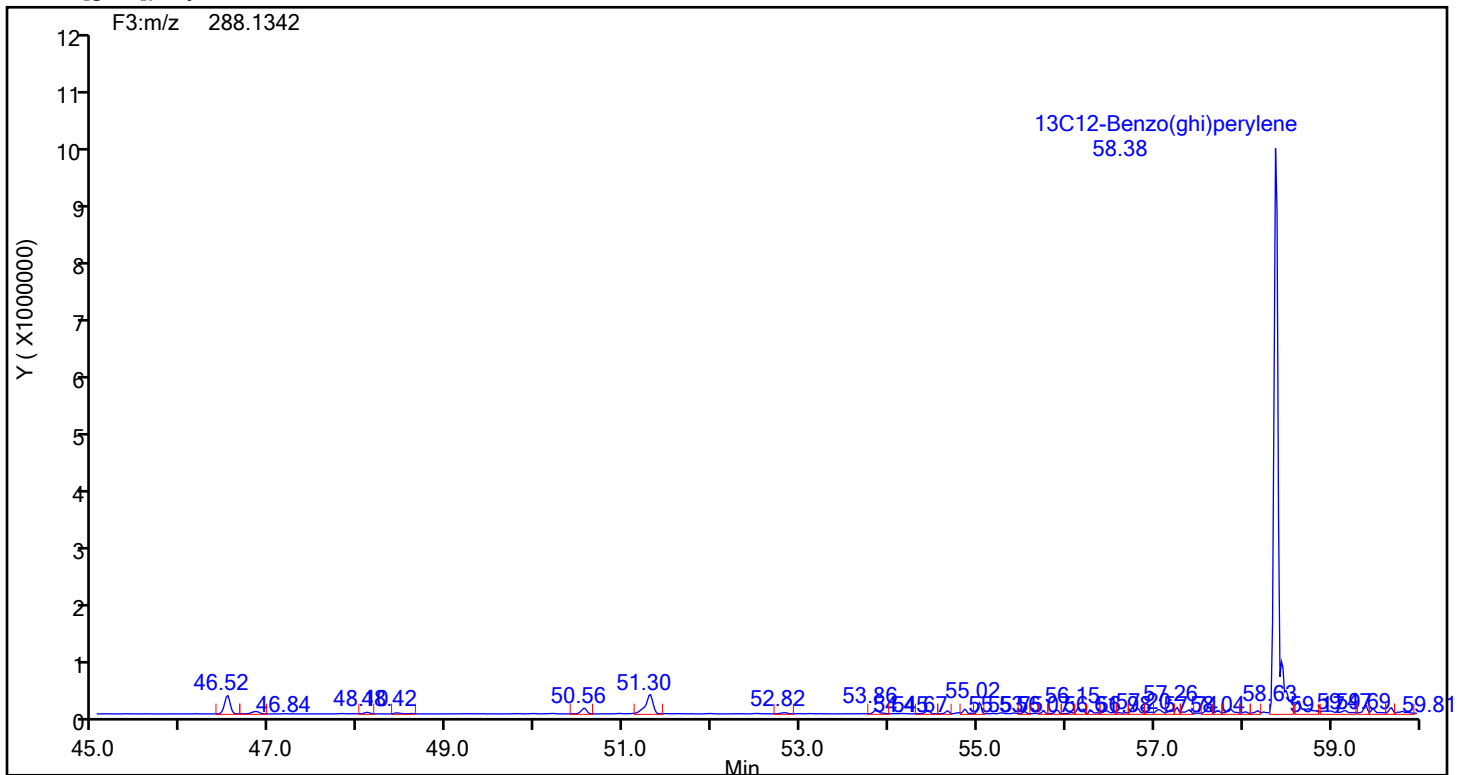
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 89185 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



## Eurofins Knoxville

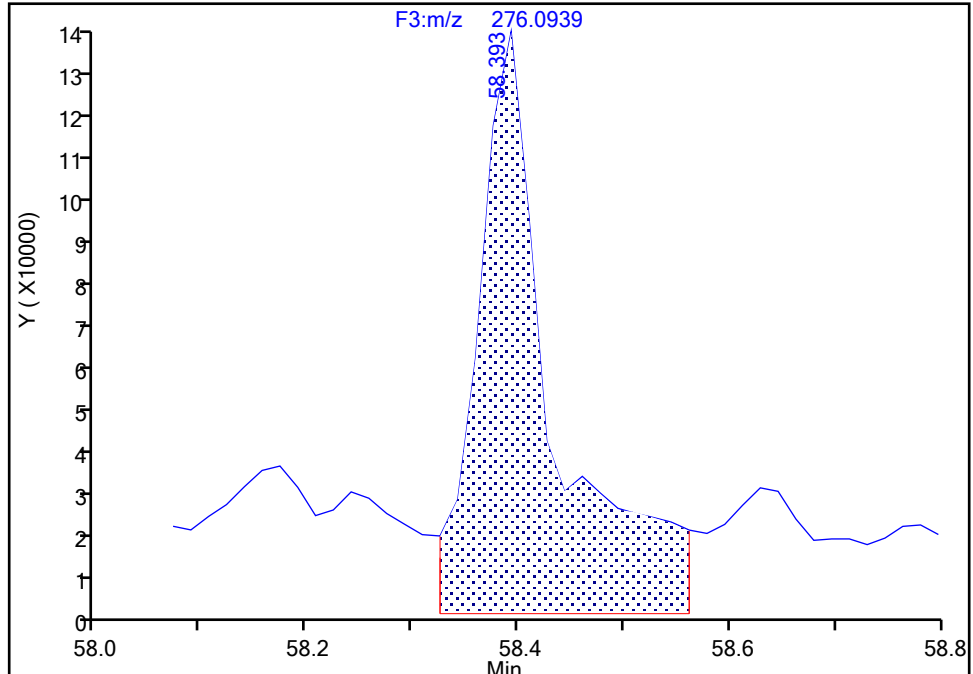
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Injection Date: 25-Jul-2024 01:56:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-4-F Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

**Benzo[g,h,i]perylene, CAS: 191-24-2**

Signal: 1

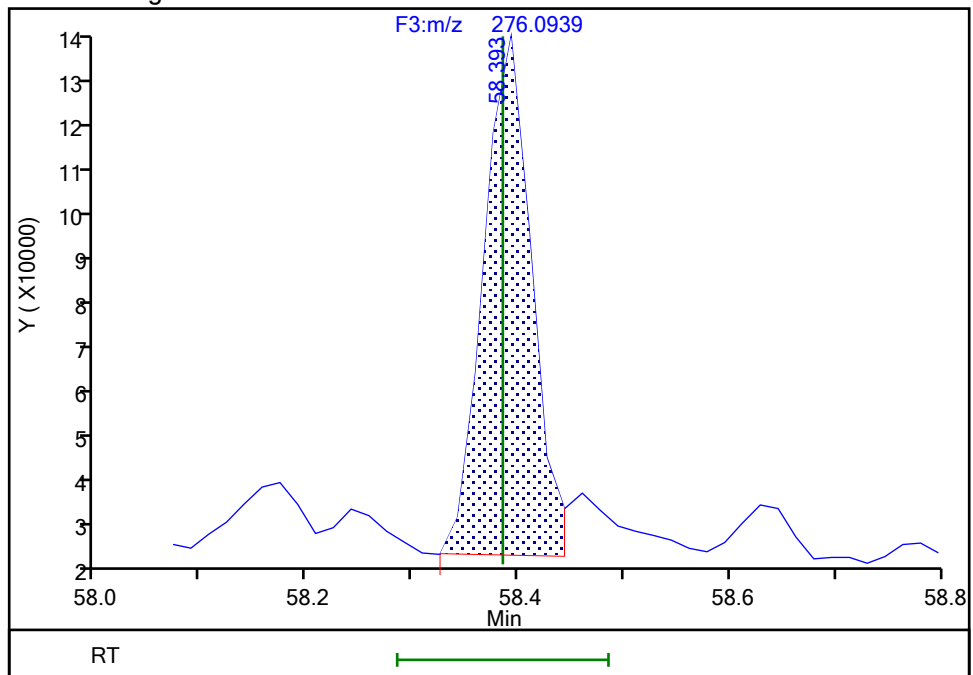
RT: 58.39  
Area: 673447  
Amount: 1.534757  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.39  
Area: 371665  
Amount: 0.847008  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 26-Jul-2024 09:21:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\140-36940-a-4-f.d  
Lims ID: 140-36940-A-4-F  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Sample Type: Client  
Inject. Date: 25-Jul-2024 01:56:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033664-007  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 26-Jul-2024 09:22:32 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1646

First Level Reviewer: TT6I

Date: 26-Jul-2024 09:22:32

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	11.8	117.21
13C6-Benzo(c)fluorene	100.2	133.7	133.38
13C12-Benzo(j)fluoranthene	100.2	51.4	51.31

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN 5-COMBINED</u>	Lab Sample ID: <u>140-36940-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-5-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/17/2024 12:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/17/2024 04:33</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88831</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-57-6	2-Methylnaphthalene	7140	B	750	750	2.24
208-96-8	Acenaphthylene	101	B	30.0	30.0	3.16
83-32-9	Acenaphthene	118	J B	300	300	3.32
86-73-7	Fluorene	1310	B	300	300	0.850
85-01-8	Phenanthrene	7510	B	60.0	60.0	2.90
120-12-7	Anthracene	640		300	300	2.94
206-44-0	Fluoranthene	384	B	60.0	60.0	3.63
129-00-0	Pyrene	470	B	60.0	60.0	3.72
56-55-3	Benzo[a]anthracene	235	B	60.0	60.0	39.0
218-01-9	Chrysene	859	B	60.0	60.0	36.5
205-99-2	Benzo[b]fluoranthene	187	J B	300	300	3.13
207-08-9	Benzo[k]fluoranthene	ND		60.0	60.0	4.89
192-97-2	Benzo[e]pyrene	376	B	60.0	60.0	3.32
50-32-8	Benzo[a]pyrene	ND		30.0	30.0	3.40
198-55-0	Perylene	48.1	B	30.0	30.0	1.16
193-39-5	Indeno[1,2,3-cd]pyrene	172	B	30.0	30.0	0.799
53-70-3	Dibenz(a,h)anthracene	115	B	60.0	60.0	0.775
191-24-2	Benzo[g,h,i]perylene	67.3	B	60.0	60.0	0.512

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>5-COMBINED</u>	Lab Sample ID: <u>140-36940-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-5-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/17/2024 12:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/17/2024 04:33</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88831</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	75		20-130
STL03357	13C6-2-Methylnaphthalene	70		20-130
189811-56-1	13C6-Acenaphthylene	92		20-130
189811-57-2	13C6-Acenaphthene	97		20-130
STL00616	13C6-Fluorene	94		20-130
1397194-60-3	13C6-Fluoranthrene	94		20-130
1397214-90-2	13C3-Pyrene	89		20-130
917378-11-1	13C6-Benzo (a) anthracene	110		20-130
1397177-72-8	13C6-Chrysene	110		20-130
STL03358	13C6-Benzo (b) fluoranthene	25		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	22		20-130
STL03382	13C4-Benzo (e) pyrene	26		20-130
STL03359	13C4-Benzo (a) pyrene	24		20-130
1520-96-3	Perylene-d12	59		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	69		20-130
STL03360	13C6-Dibenz (a,h) anthracene	28		20-130
350820-11-0	13C12-Benzo (ghi) perylene	56		20-130
189811-60-7	13C6-Anthracene	83		20-130
1189955-53-0	13C6-Phenanthrene	70		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Lims ID: 140-36940-A-5-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 04:33:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033530-008  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 16:09:25 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 16:02:50

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:25	2842779		3.3746	7.506	7.506	0.008014	0.008014	75.06	
Naphthalene	11:23	439486427		1.2893	1199.1	1199.1	0.6014	0.6014		E
D 13C6-2-Methylnaphthalene	13:47	1267355		1.6031	7.044	7.044	0.0208	0.0208	70.44	
2-Methylnaphthalene	13:47	77143284		1.2786	476.1	476.1	0.1495	0.1495		
D 13C6-Acenaphthylene	16:38	1703449		1.6520	9.187	9.187	0.0110	0.0110	91.87	
Acenaphthylene	16:38	1697313		2.3661	6.715	6.715	0.2110	0.2110		
* Acenaphthene-d10	17:12	561176		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:20	1068322		0.9792	9.721	9.721	0.0146	0.0146	97.21	
Acenaphthene	17:20	1062619		1.2697	7.834	7.834	0.2212	0.2212		M
D 13C6-Fluorene	19:36	940709		0.8898	9.419	9.419	0.008209	0.008209	94.19	
Fluorene	19:36	10323043		1.2532	87.6	87.6	0.0567	0.0567		
D 13C6-Phenanthrene	25:01	1428061		0.5724	7.007	7.007	0.003532	0.003532	70.07	
Phenanthrene	25:01	78963288		1.1044	500.7	500.7	0.1936	0.1936		
\$ Anthracin-d10	25:14	95204		0.4257	0.6281	0.6281	0.000612	0.000612	62.81	
D 13C6-Anthracene	25:20	1341262		0.4523	8.328	8.328	0.004469	0.004469	83.28	
Anthracene	25:20	7779434		1.3586	42.7	42.7	0.1958	0.1958		
D 13C6-Fluoranthrene	33:42	4006728		1.1994	9.383	9.383	0.0404	0.0404	93.83	
Fluoranthene	33:43	11801256		1.1513	25.6	25.6	0.2420	0.2420		
* Pyrene-d10	35:15	1780183		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:23	4274724		1.3512	8.886	8.886	0.1524	0.1524	88.86	
Pyrene	35:23	14268736		1.0652	31.3	31.3	0.2480	0.2480		
\$ 13C6-Benzo(c)fluorene	39:04	1284455		0.5136	7.024	7.024	0.0359	0.0359	105	
D 13C6-Benzo(a)anthracene	45:52	3696593		1.5189	11.0	11.0	0.0328	0.0328	110	
Benzo[a]anthracene	45:52	5651663		0.9739	15.7	15.7	2.598	2.598		
D 13C6-Chrysene	46:08	3942619		1.6287	11.0	11.0	0.0306	0.0306	110	
Chrysene	46:04	22155108		0.9815	57.3	57.3	2.436	2.436		
D 13C6-Benzo(b)fluoranthene	54:30	815255		1.4621	2.530	2.530	0.0169	0.0169	25.30	
Benzo[b]fluoranthene	54:31	1141398		1.1249	12.4	12.4	0.2084	0.2084		M
\$ 13C12-Benzo(j)fluoranthene	54:33	371781		1.3558	1.244	1.244	0.0178	0.0178	18.66	
D 13C6-Benzo(k)fluoranthene	54:39	845661		1.7507	2.192	2.192	0.0141	0.0141	21.92	
Benzo[k]fluoranthene	54:37						0.3258	0.3258		
* Benzo(e)pyrene-d12	55:25	1102054		5.7E+04	5.000	5.000				
D 13C4-Benzo(e)pyrene	55:29	941749		1.6368	2.610	2.610	0.0544	0.0544	26.10	M
Benzo[e]pyrene	55:29	2365838		1.0013	25.1	25.1	0.2215	0.2215		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:43	813889		1.5508	2.381	2.381	0.0574	0.0574	23.81	M
Benzo[a]pyrene	55:35						0.2268	0.2268		
D Perylene-d12	55:51	1540525		1.1917	5.865	5.865	0.0165	0.0165	58.65	
Perylene	55:50	706972		1.4307	3.208	3.208	0.0775	0.0775		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:58	1565064		1.0218	6.949	6.949	0.0461	0.0461	69.49	
Indeno[1,2,3-cd]pyrene	57:58	2022722		1.1249	11.5	11.5	0.0533	0.0533		M
D 13C6-Dibenz(a,h)anthracene	58:02	641104		1.0553	2.756	2.756	0.0310	0.0310	27.56	
Dibenz(a,h)anthracene	58:02	557964		1.1314	7.693	7.693	0.0517	0.0517		M
D 13C12-Benzo(ghi)perylene	58:25	1561149		1.2749	5.556	5.556	0.0908	0.0908	55.56	
Benzo[g,h,i]perylene	58:25	898925		1.2838	4.485	4.485	0.0341	0.0341		M

### QC Flag Legend

#### Processing Flags

E - Exceeded Maximum Amount

#### Review Flags

M - Manually Integrated

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Lims ID: 140-36940-A-5-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 04:33:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033530-008  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 17-Jul-2024 16:09:25 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 16:02:50

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:25	11:23	1	0.663	2842779	1003550	403	1007	2490		
Naphthalene											
128.0626	11:23	11:23	-1	0.998	439486427	86806755	31124	77810	2789		E
13C6-2-Methylnaphthalene											
148.0984	13:47	13:45	1	0.801	1267355	587971	496	1240	1185		
2-Methylnaphthalene											
142.0783	13:47	13:46	1	1.000	77143284	38779762	4495	11237	8627		
13C6-Acenaphthylene											
158.0828	16:38	16:36	1	0.967	1703449	598443	270	675	2216		
Acenaphthylene											
152.0626	16:38	16:36	1	1.000	1697313	624842	7089	17722	88		
Acenaphthene-d10											
164.1404	17:12	17:11	1		561176	186184	62	155	3003		
13C6-Acenaphthene											
160.0984	17:20	17:17	1	1.007	1068322	355018	213	532	1667		
Acenaphthene											
154.0783	17:20	17:20	1	1.000	1062619	359633	3989	9972	90		M
13C6-Fluorene											
172.0984	19:36	19:33	1	1.140	940709	280910	109	272	2577		
Fluorene											
166.0783	19:36	19:36	1	1.000	10323043	2878199	798	1995	3607		
13C6-Phenanthrene											
184.0984	25:01	24:56	4	0.710	1428061	253760	53	132	4788		
Phenanthrene											
178.0783	25:01	24:54	4	1.000	78963288	13487665	2170	5425	6216		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:14	25:08	5	0.716	95204	15210	7	17	2173		
13C6-Anthracene											
184.0984	25:20	25:15	5	0.719	1341262	203964	53	132	3848		
Anthracene											
178.0783	25:20	25:15	5	1.000	7779434	1013094	2170	5425	467		
13C6-Fluoranthrene											
208.0984	33:42	33:42	3	0.956	4006728	756007	1266	3165	597		
Fluoranthene											
202.0783	33:43	33:39	3	1.000	11801256	2245810	8424	21060	267		
Pyrene-d10											
212.1404	35:15	35:11	3		1780183	326457	178	445	1834		
13C3-Pyrene											
205.0883	35:23	35:24	3	1.004	4274724	797330	5379	13447	148		
Pyrene											
202.0783	35:23	35:19	3	1.000	14268736	2643471	8424	21060	314		
13C6-Benzo(c)fluorene											
222.1134	39:04	39:01	3	0.705	1284455	243776	482	1205	506		
13C6-Benzo(a)anthracene											
234.1140	45:52	45:49	2	1.302	3696593	648475	945	2362	686		
Benzo[a]anthracene											
228.0939	45:52	45:47	2	1.000	5651663	1053747	65630	164075	16		
13C6-Chrysene											
234.1140	46:08	46:06	2	1.309	3942619	686403	945	2362	726		
Chrysene											
228.0939	46:04	46:03	-2	0.999	22155108	3174121	65630	164075	48		
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:28	1	0.983	815255	165279	468	1170	353		
Benzo[b]fluoranthene											
252.0939	54:31	54:31	2	1.000	1141398	170955	1550	3875	110		M
13C12-Benzo(j)fluoranthene											
264.1336	54:33	54:30	2	0.984	371781	67455	457	1142	148		M
13C6-Benzo(k)fluoranthene											
258.1140	54:39	54:35	3	0.986	845661	105517	468	1170	225		
Benzo[k]fluoranthene											
252.0939	54:40						1550	3875			
Benzo(e)pyrene-d12											
264.1692	55:25	55:22	3		1102054	237101	374	935	634		
13C4-Benzo(e)pyrene											
256.1073	55:29	55:29	3	1.001	941749	174717	1689	4222	103		M
Benzo[e]pyrene											
252.0939	55:29	55:26	2	1.000	2365838	421688	1550	3875	272		M
13C4-Benzo(a)pyrene											
256.1073	55:43	55:43	8	1.005	813889	153478	1689	4222	91		M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:43						1550	3875			
Perylene-d12											
264.1692	55:51	55:44	6	1.008	1540525	349347	374	935	934		
Perylene											
252.0939	55:50	55:50	1	1.000	706972	127653	1550	3875	82		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:58	57:53	4	1.046	1565064	342189	894	2235	383		
Indeno[1,2,3-cd]pyrene											
276.0939	57:58	57:58	4	1.000	2022722	134988	820	2050	165		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:02	57:58	4	1.047	641104	172756	620	1550	279		
Dibenz(a,h)anthracene											
278.1096	58:02	58:02	4	1.000	557964	101147	404	1010	250		M
13C12-Benzo(ghi)perylene											
288.1342	58:25	58:20	4	1.054	1561149	467974	2196	5490	213		
Benzo[g,h,i]perylene											
276.0939	58:25	58:25	4	1.000	898925	267189	820	2050	326		M

### QC Flag Legend

#### Processing Flags

E - Exceeded Maximum Amount

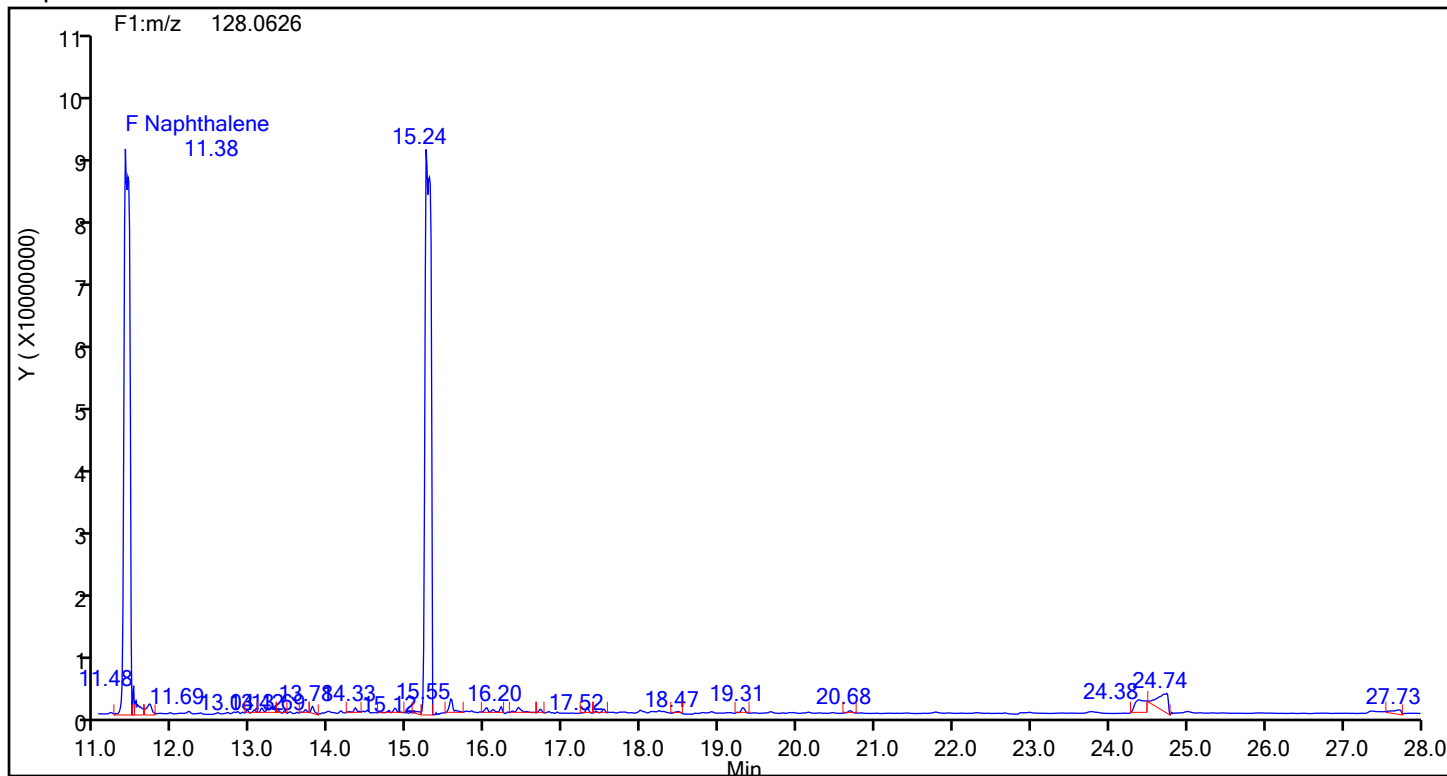
#### Review Flags

M - Manually Integrated

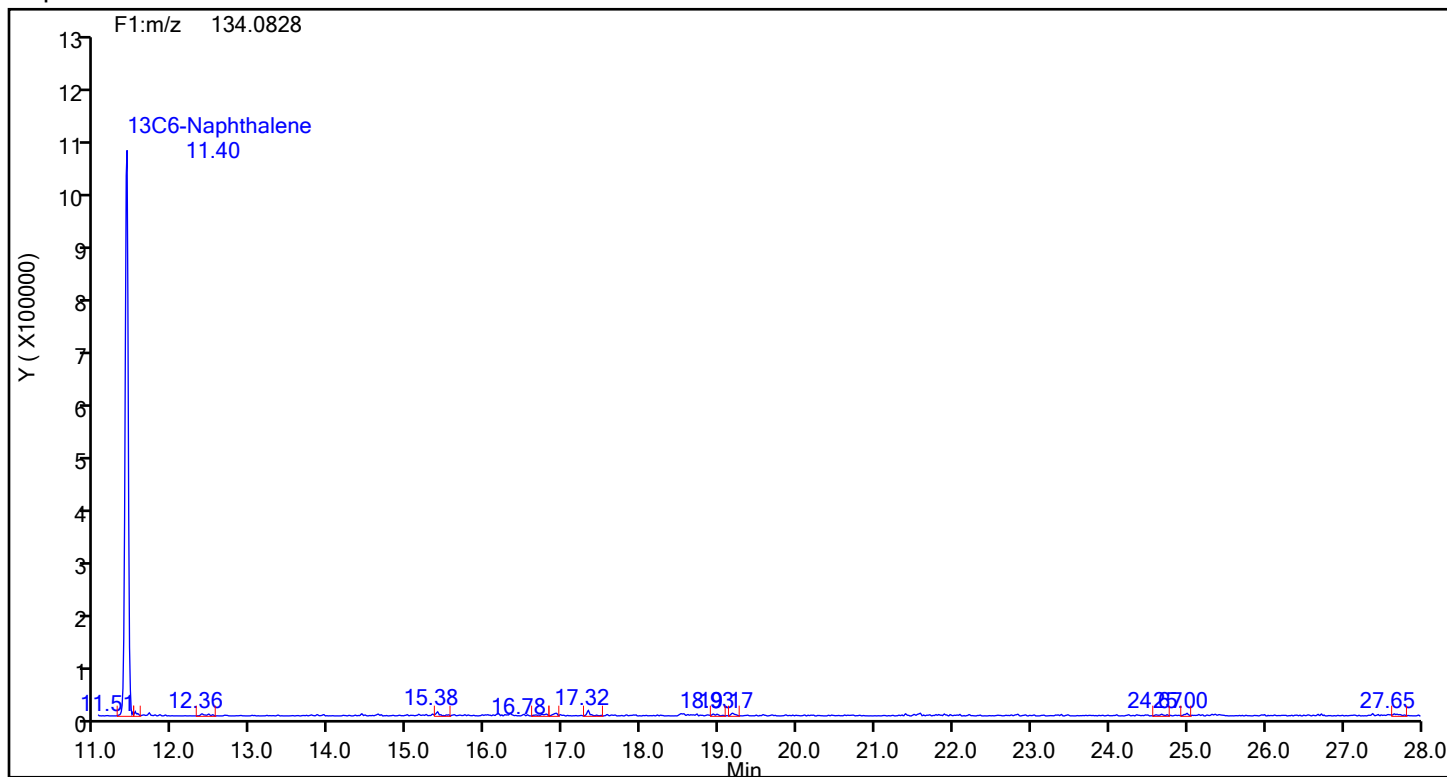
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



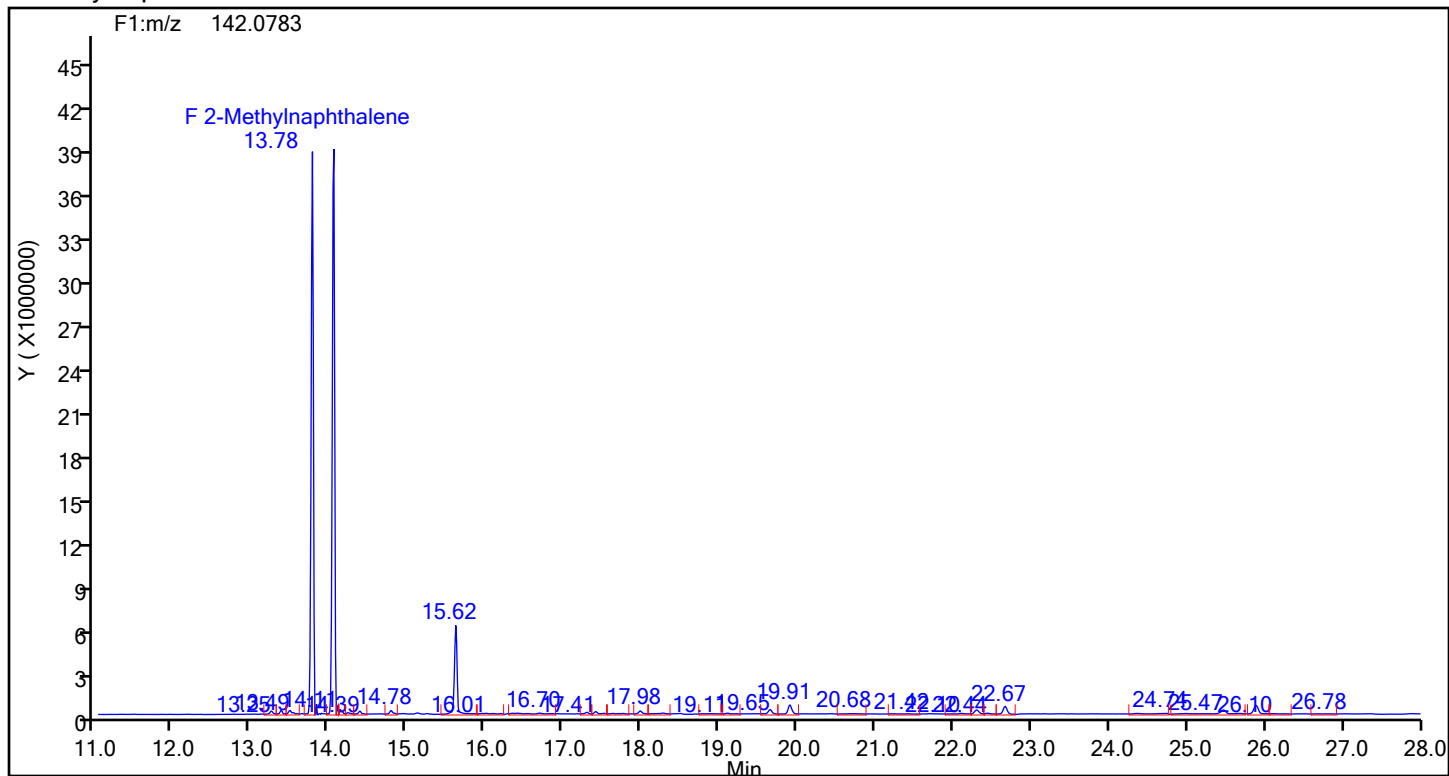
## Naphthalene Standards



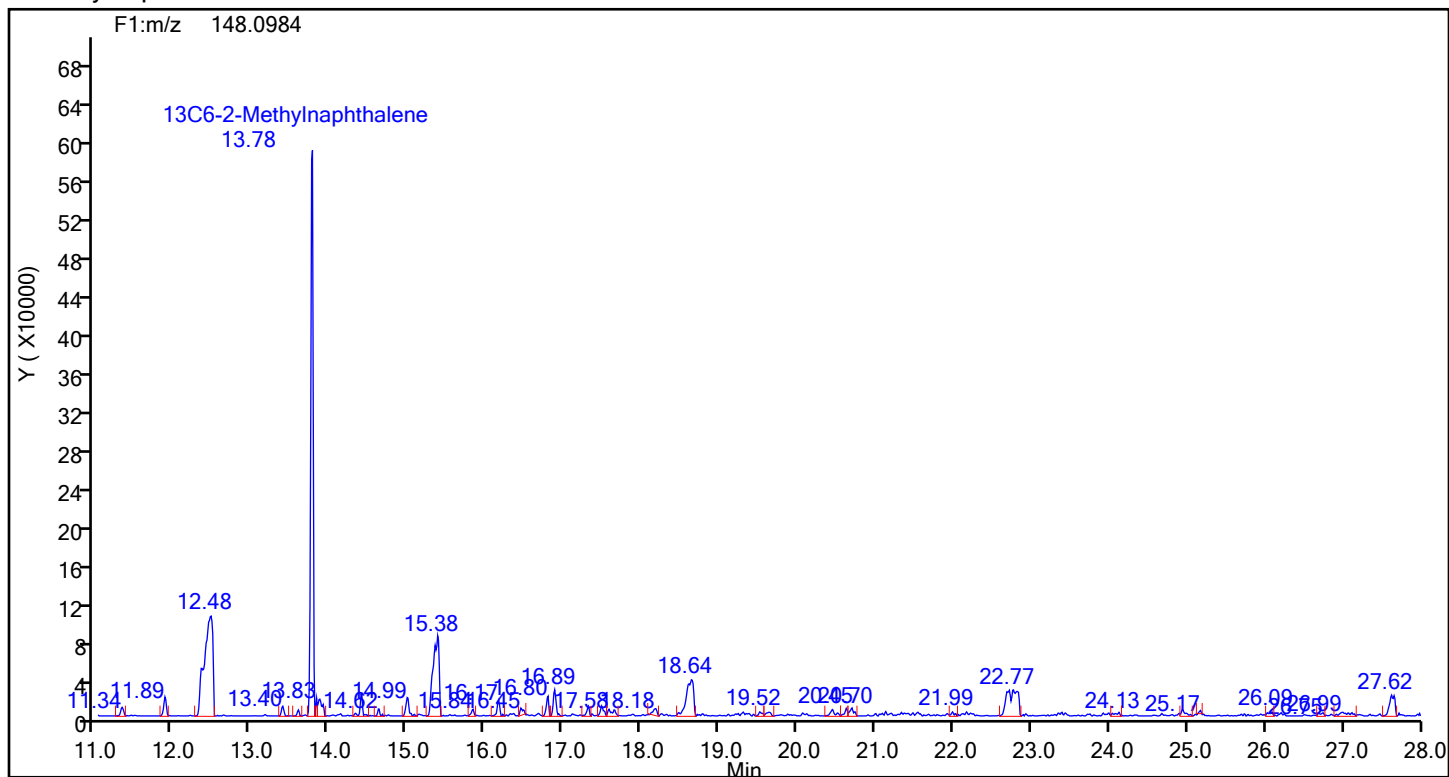
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



## 2-Methylnaphthalene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d

Injection Date: 17-Jul-2024 04:33:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED

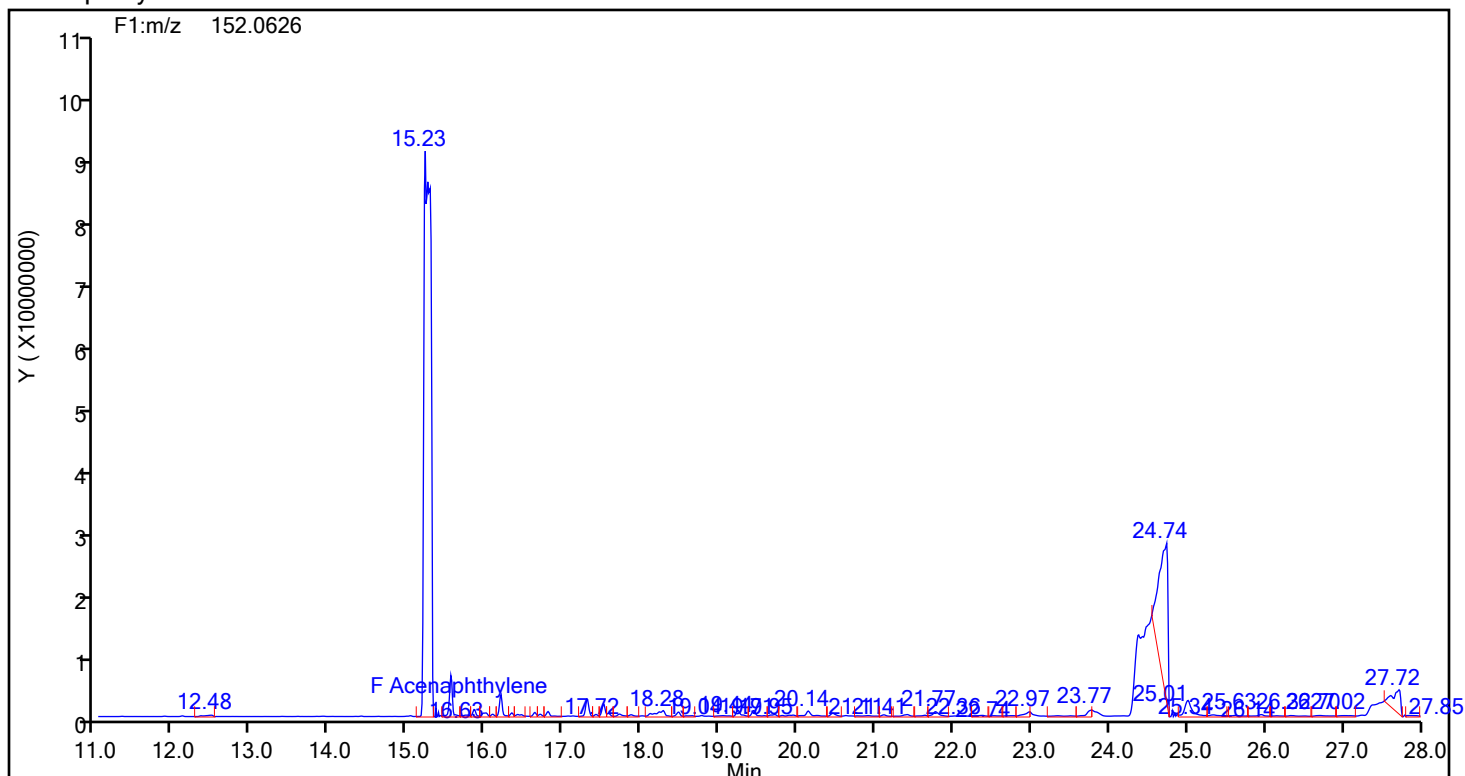
Worklist#: 88831

Sample Line#: 8

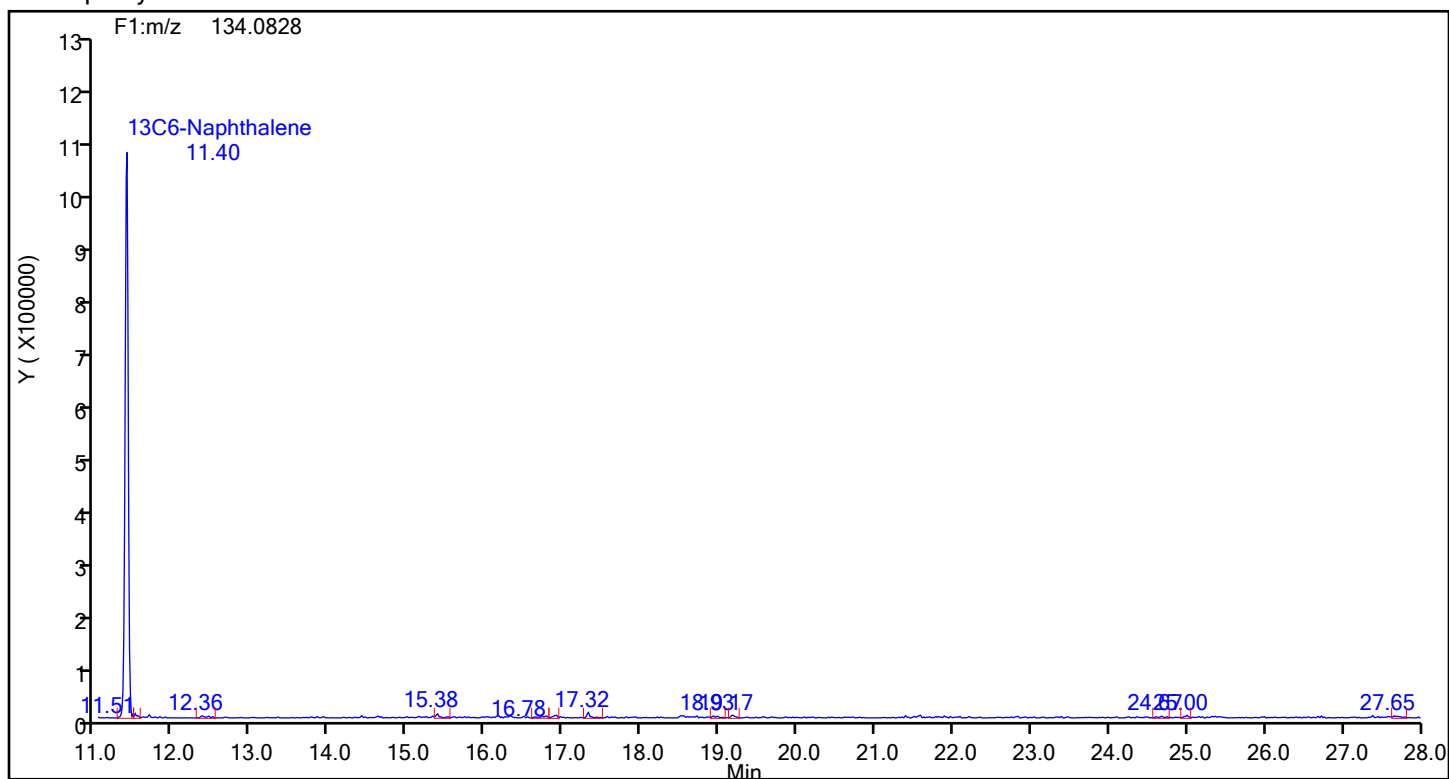
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Acenaphthylene



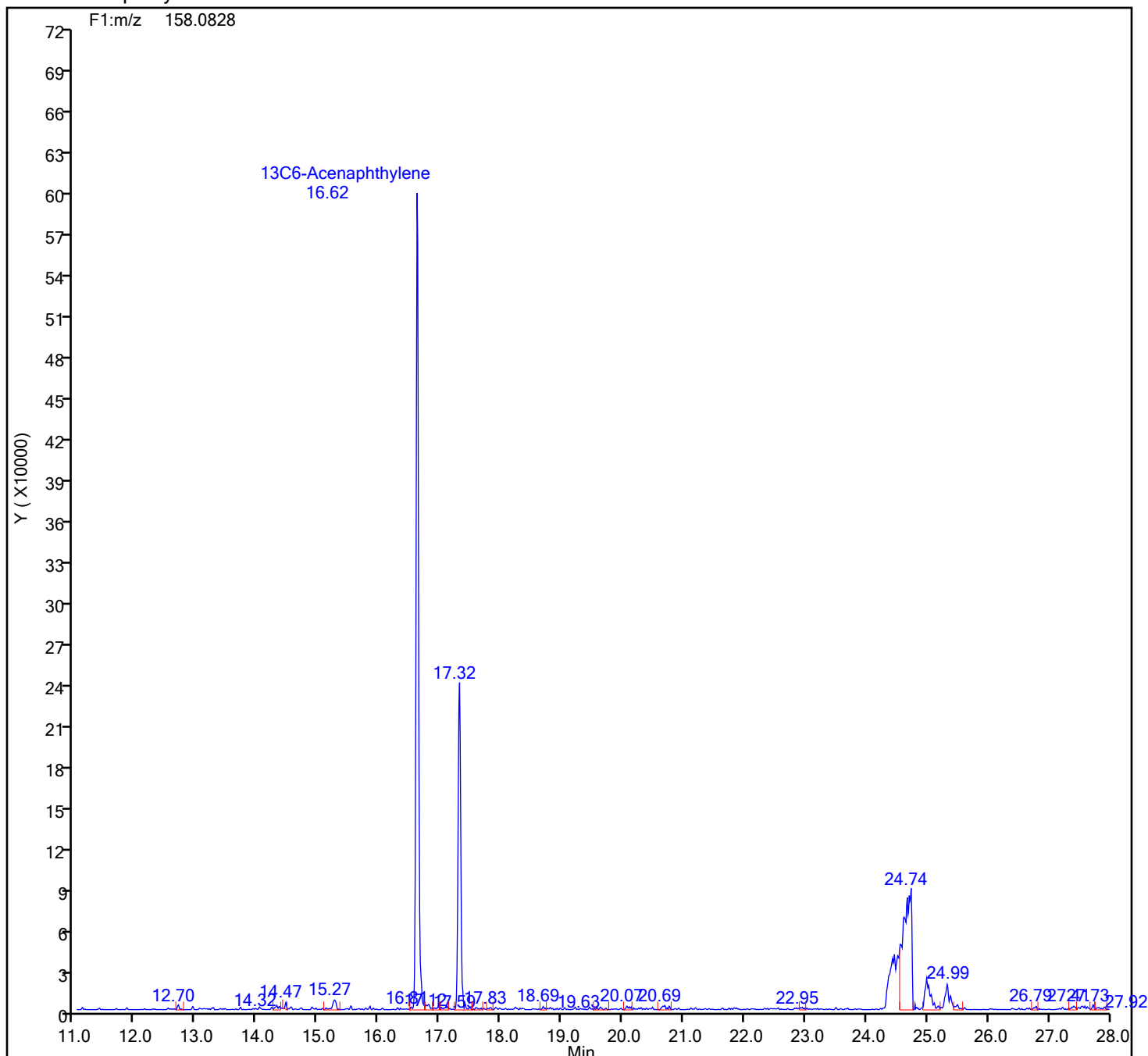
## Acenaphthylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

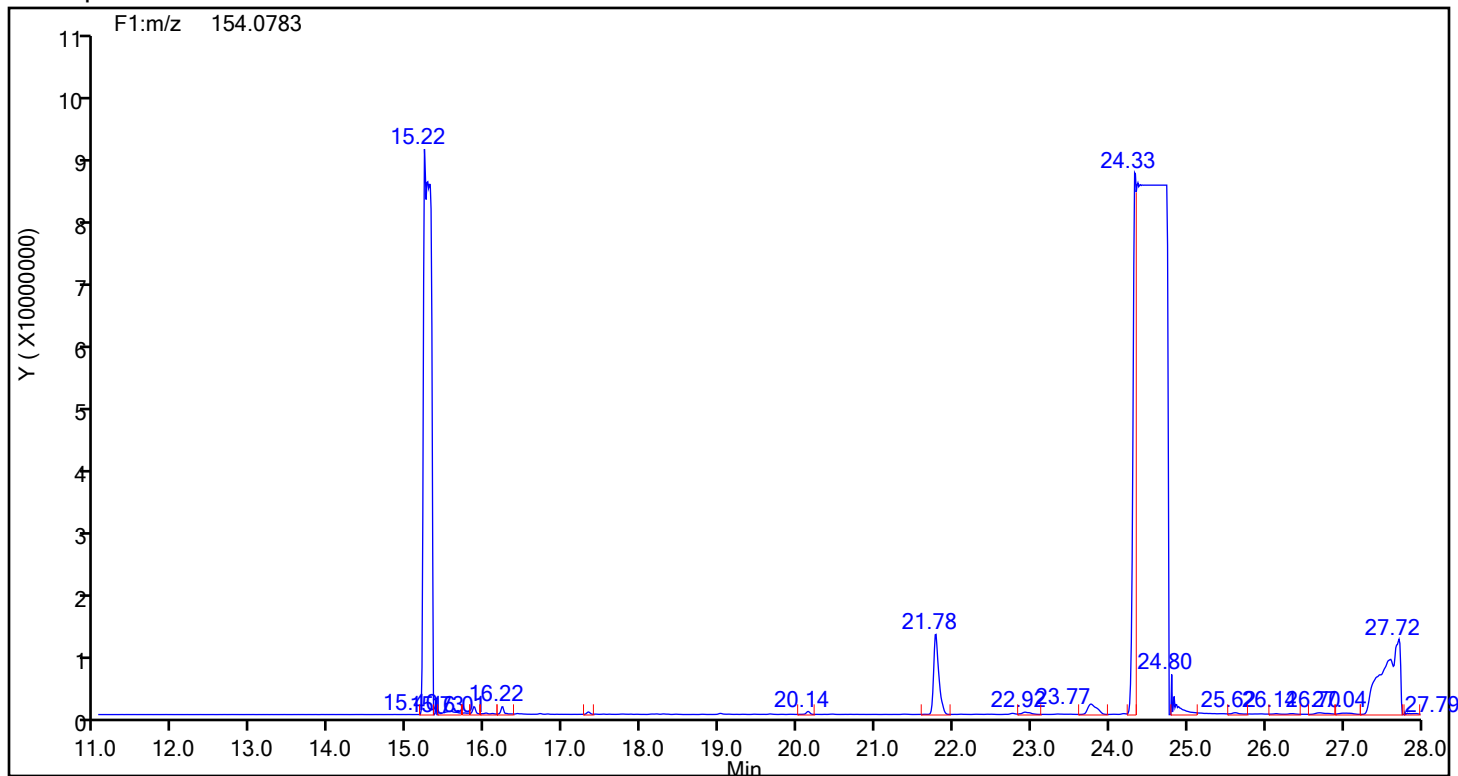
## 13C6-Acenaphthylene Standards



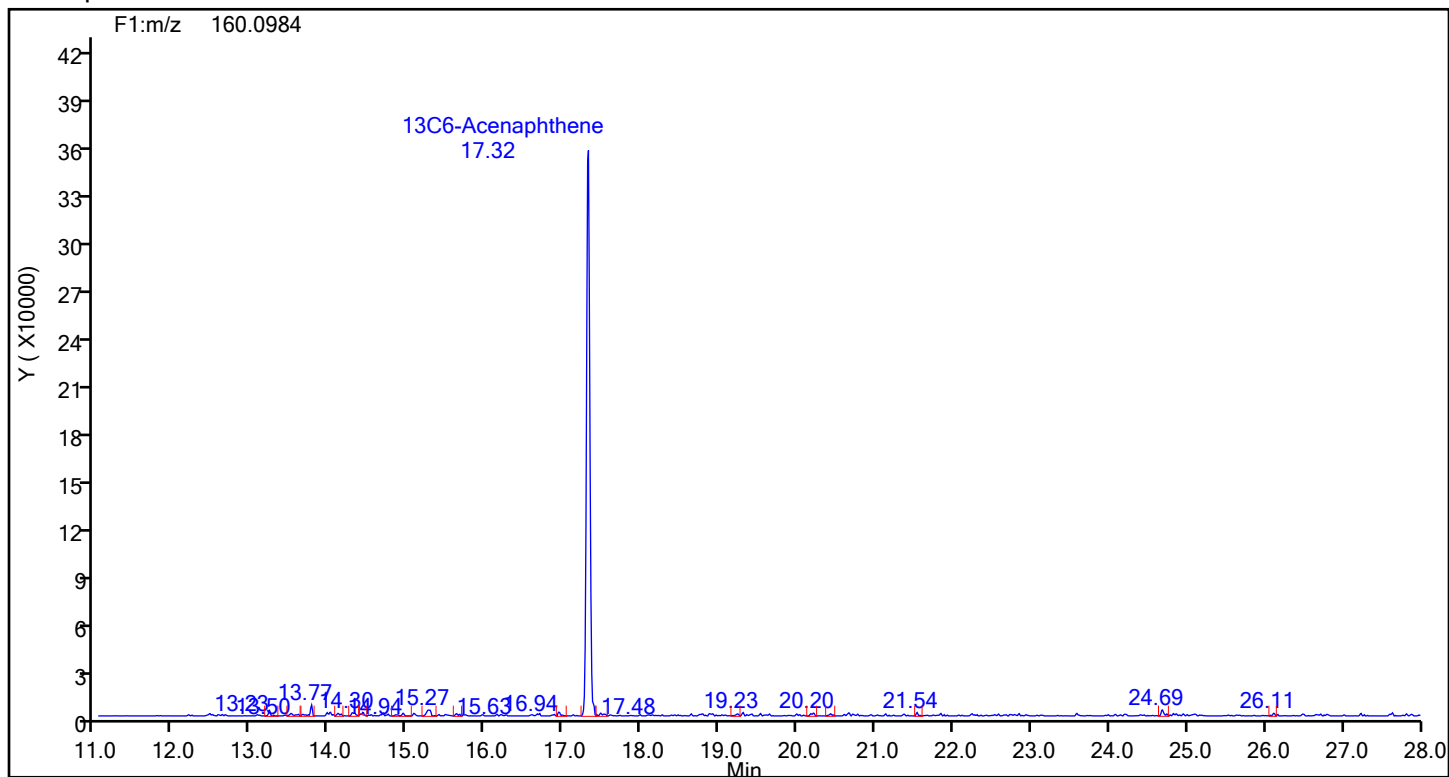
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



## Acenaphthene Standards



## Eurofins Knoxville

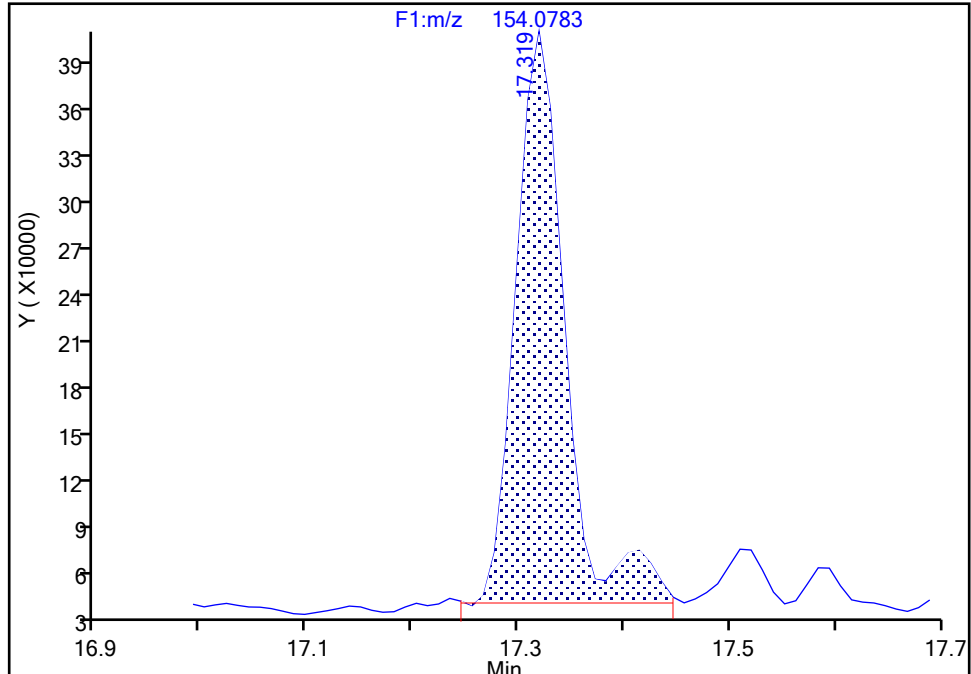
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-5-D Lab Sample ID: 140-36940-5  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

## Acenaphthene, CAS: 83-32-9

Signal: 1

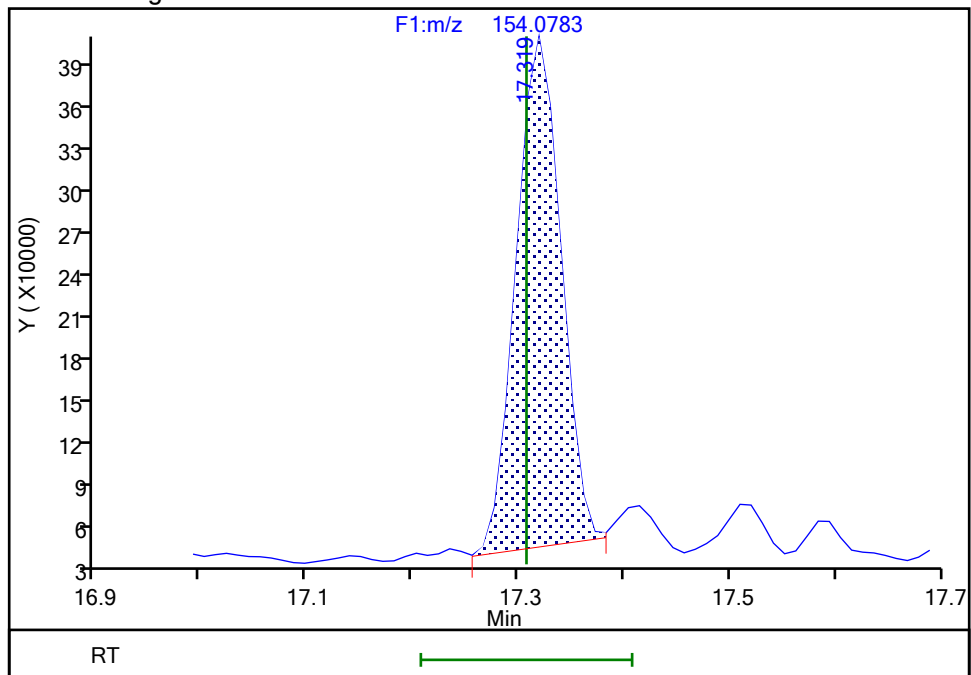
RT: 17.32  
Area: 1187940  
Amount: 8.757892  
Amount Units: pg/ul

## Processing Integration Results



RT: 17.32  
Area: 1062619  
Amount: 7.833983  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:07:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

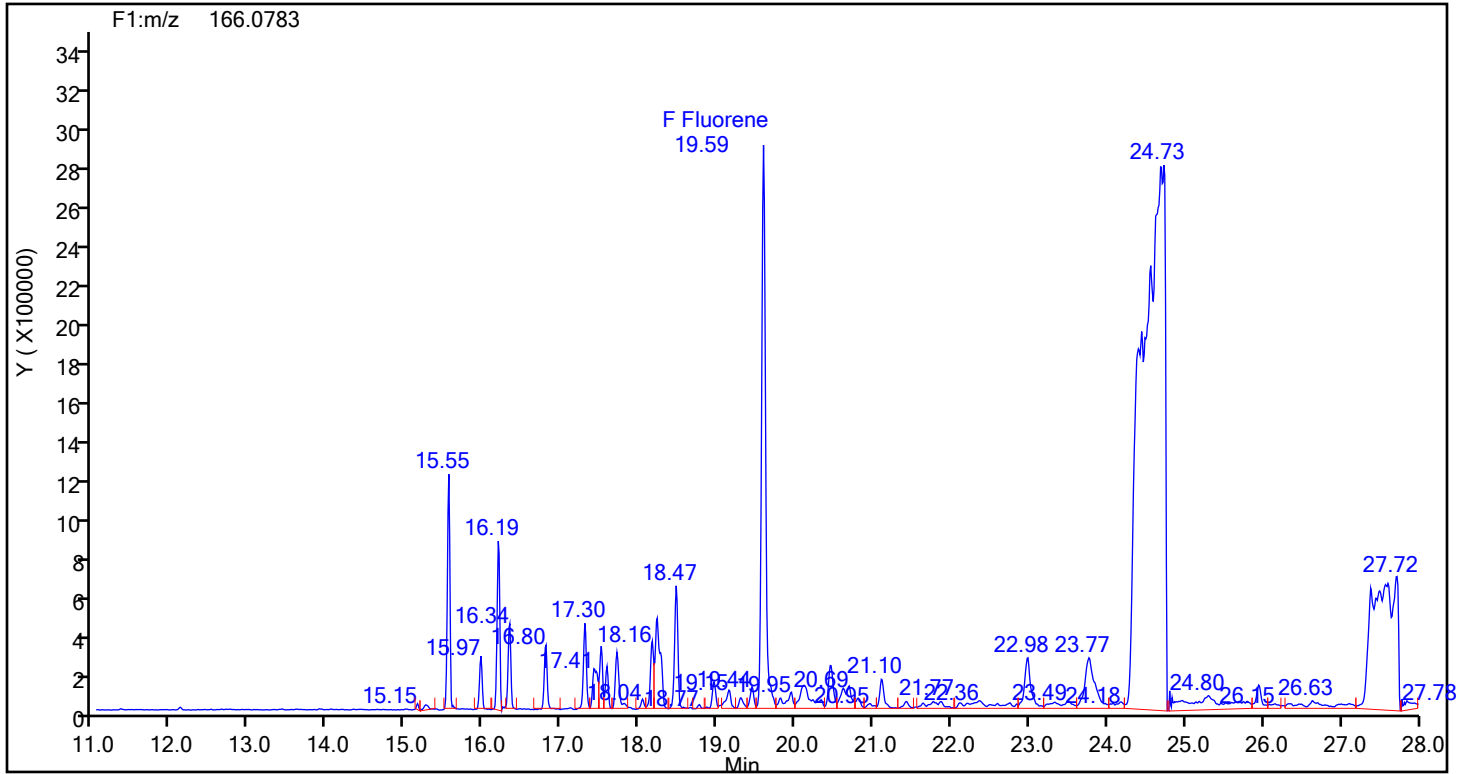
Audit Reason: Incomplete Integration



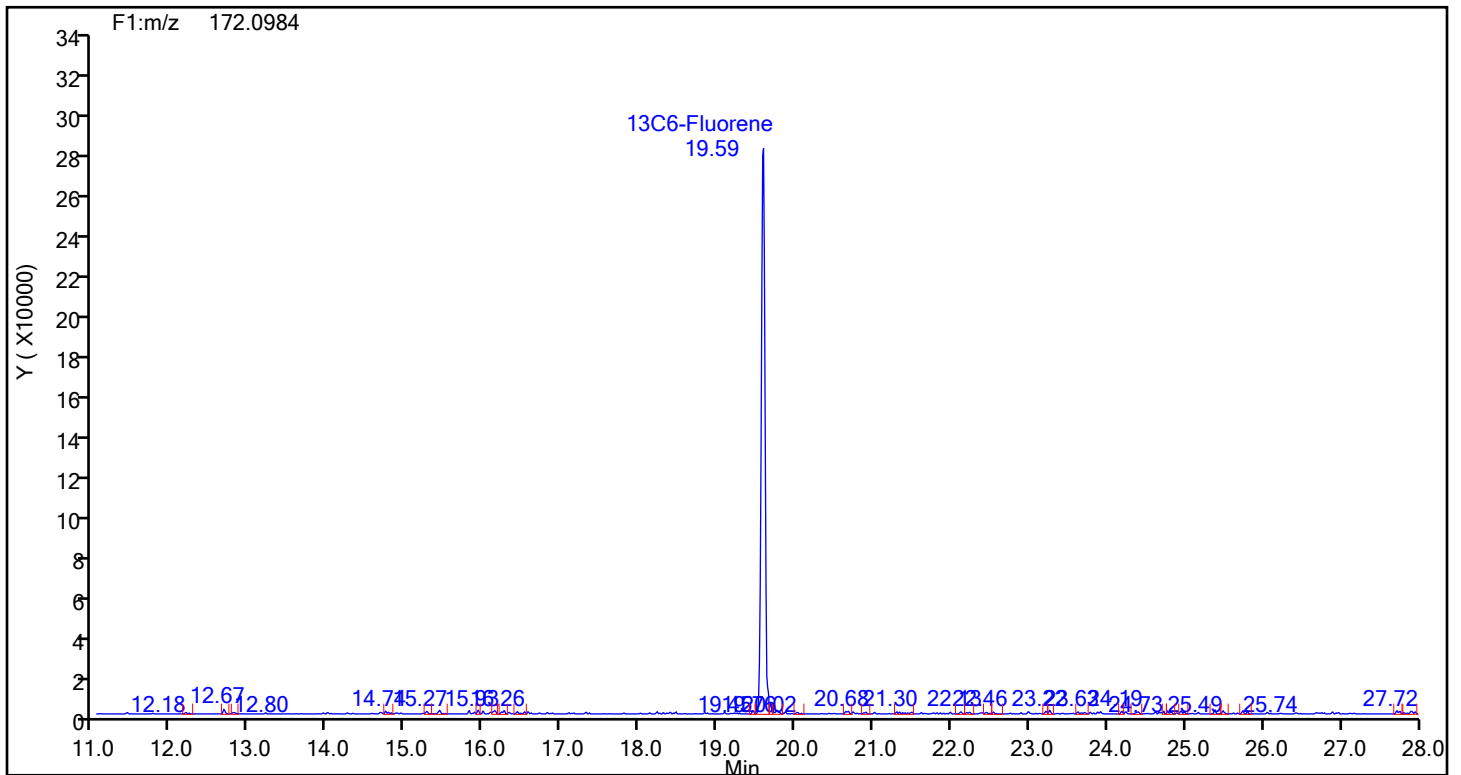
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene

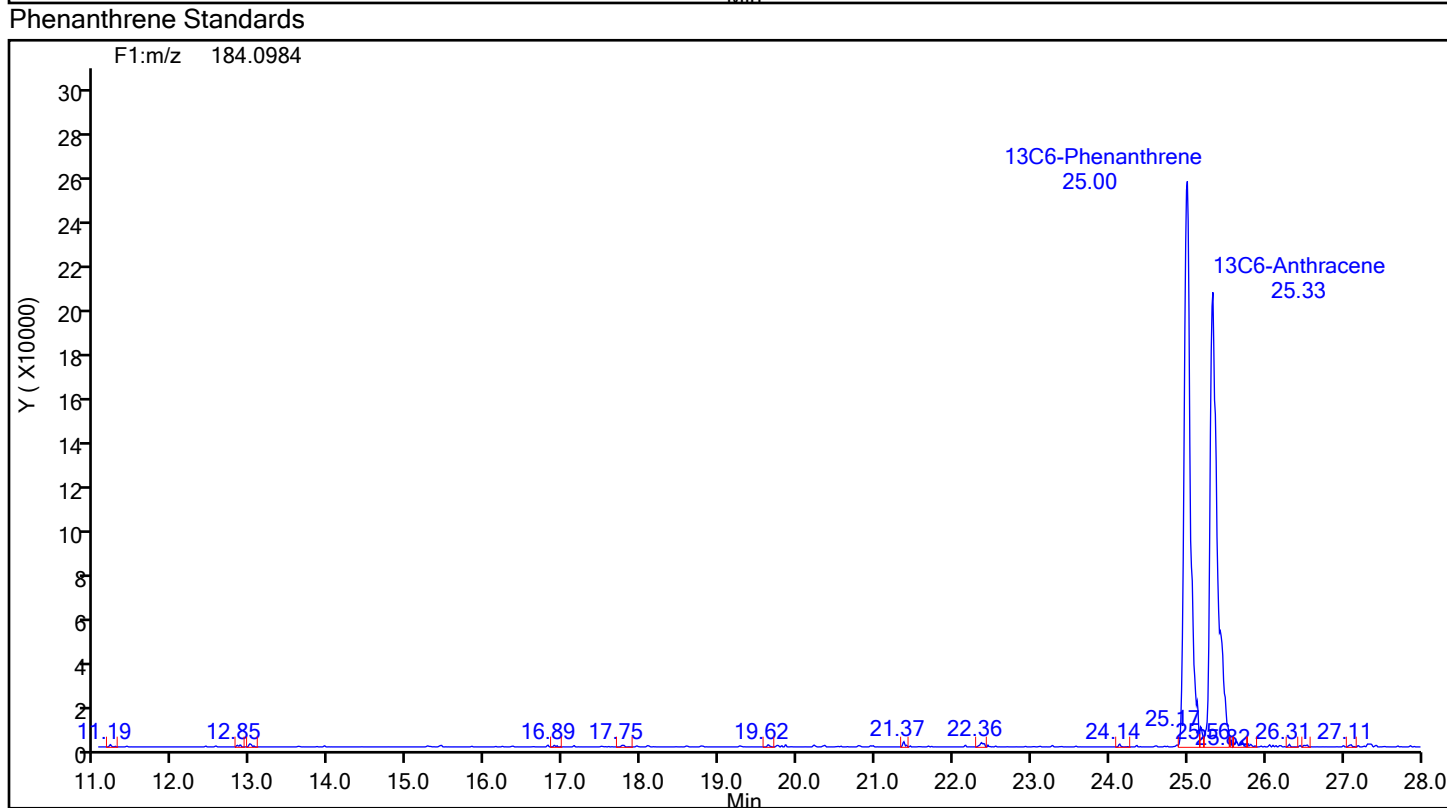
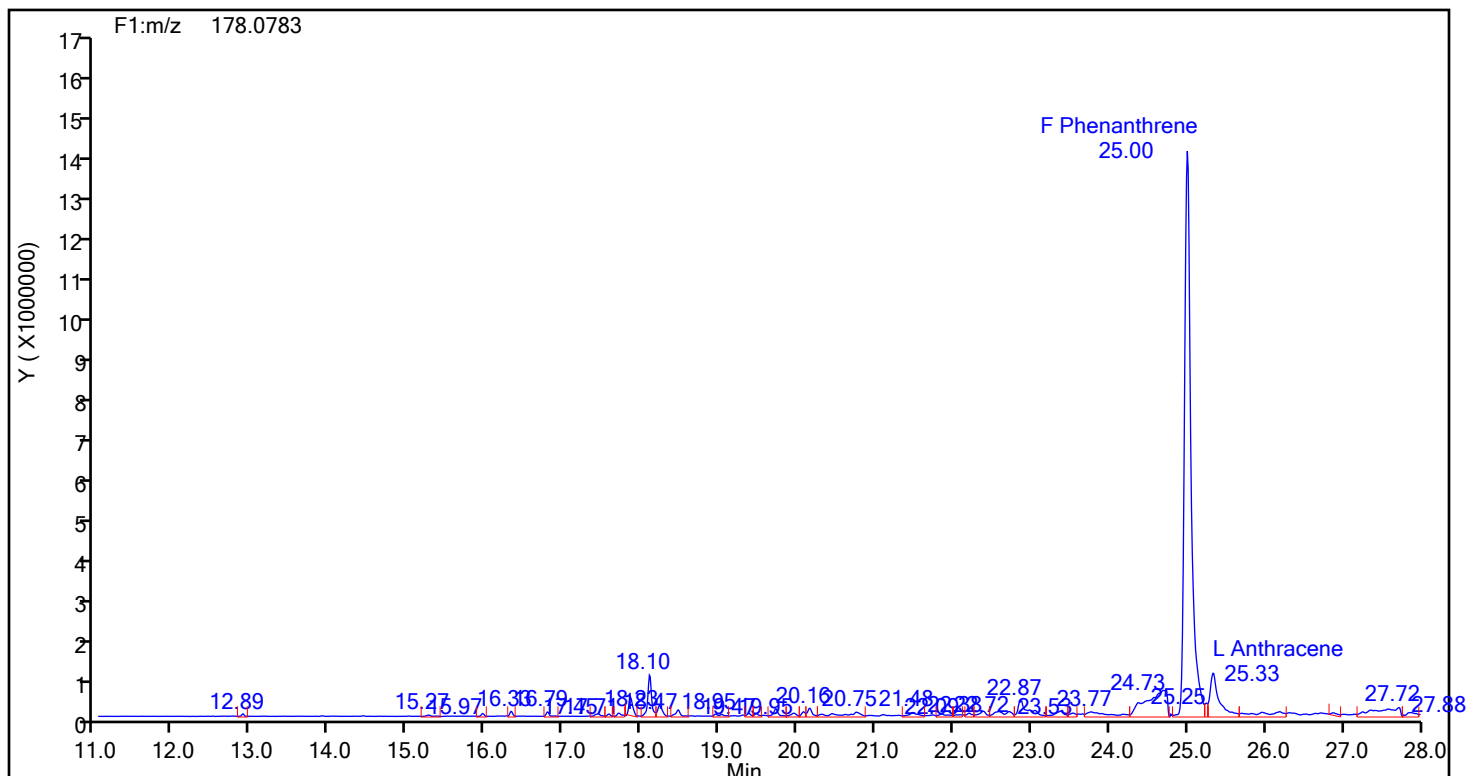


## Fluorene Standards



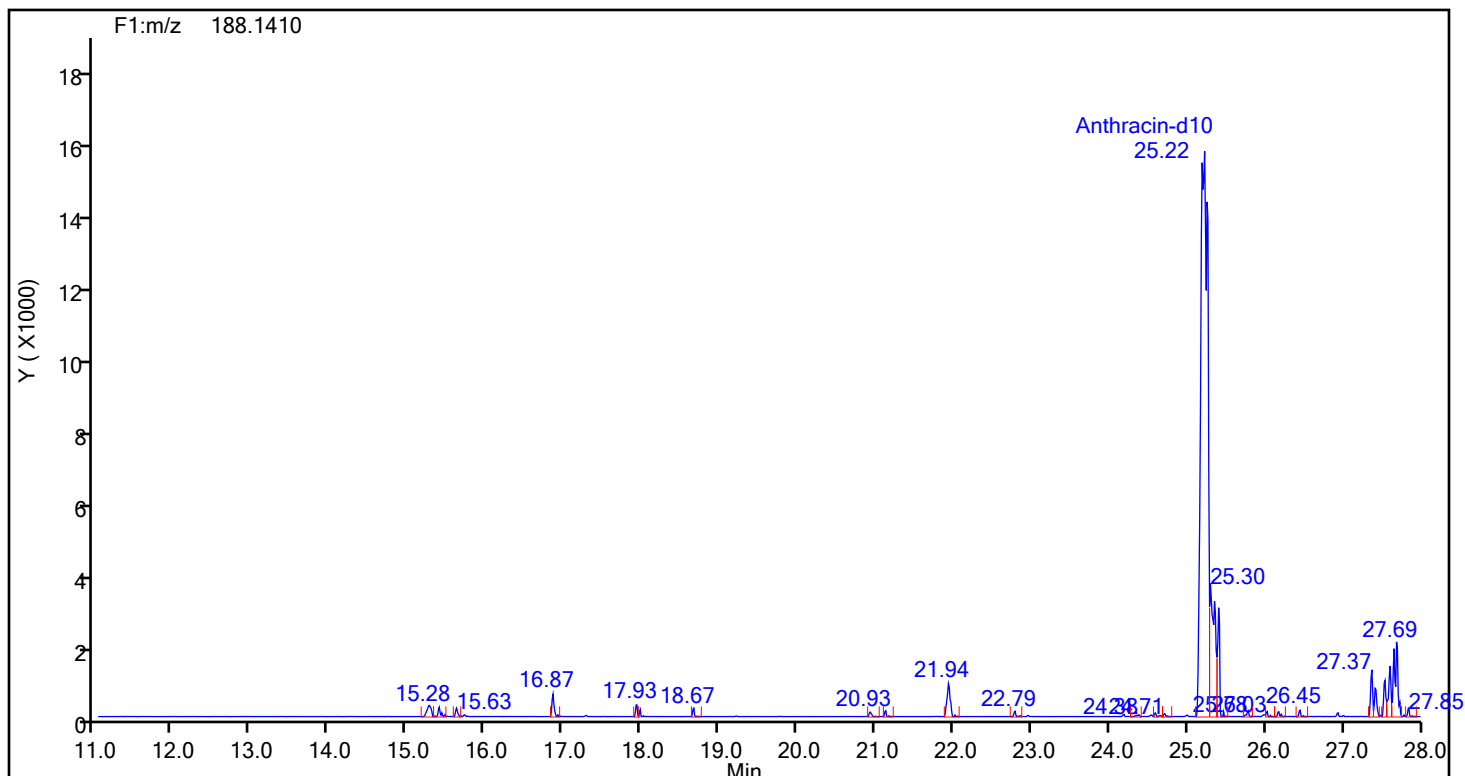
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene

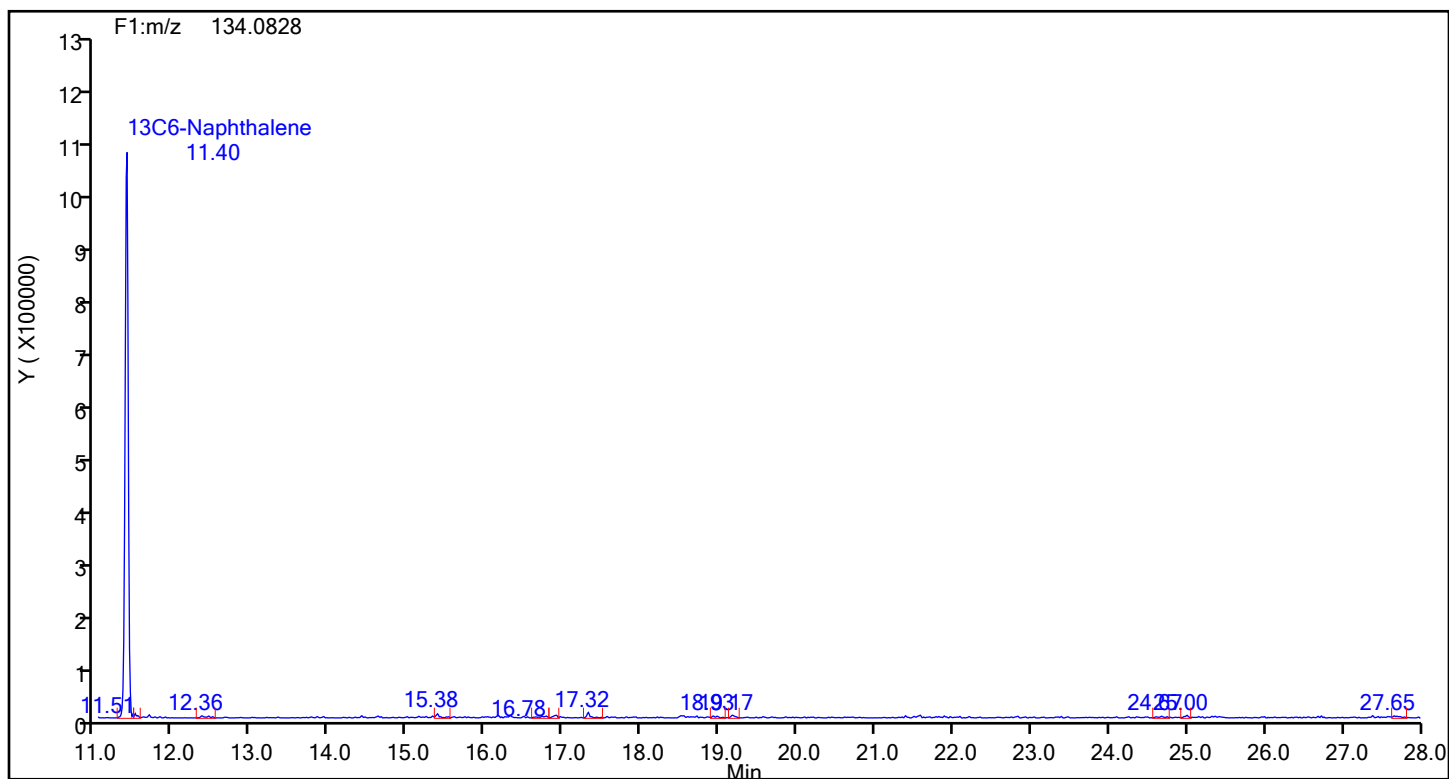


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

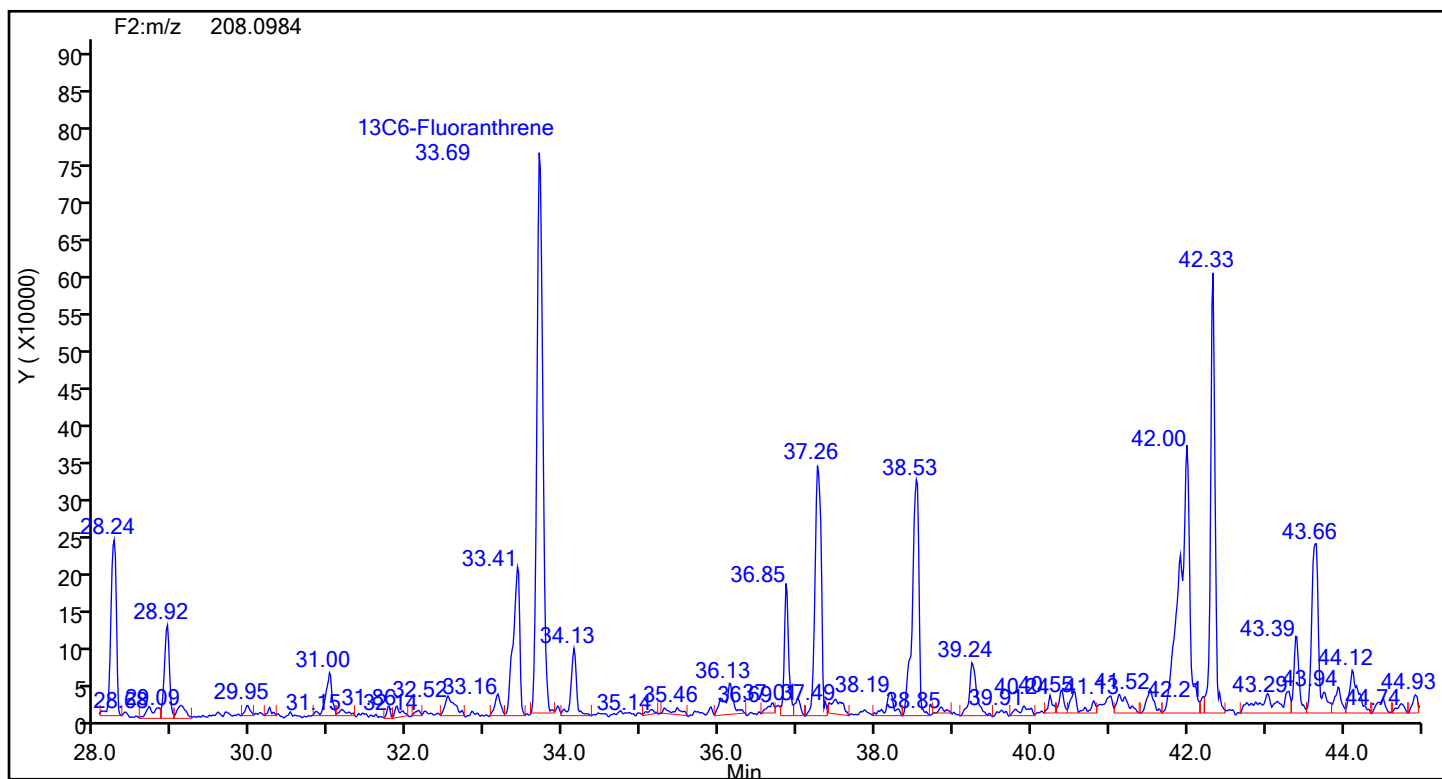
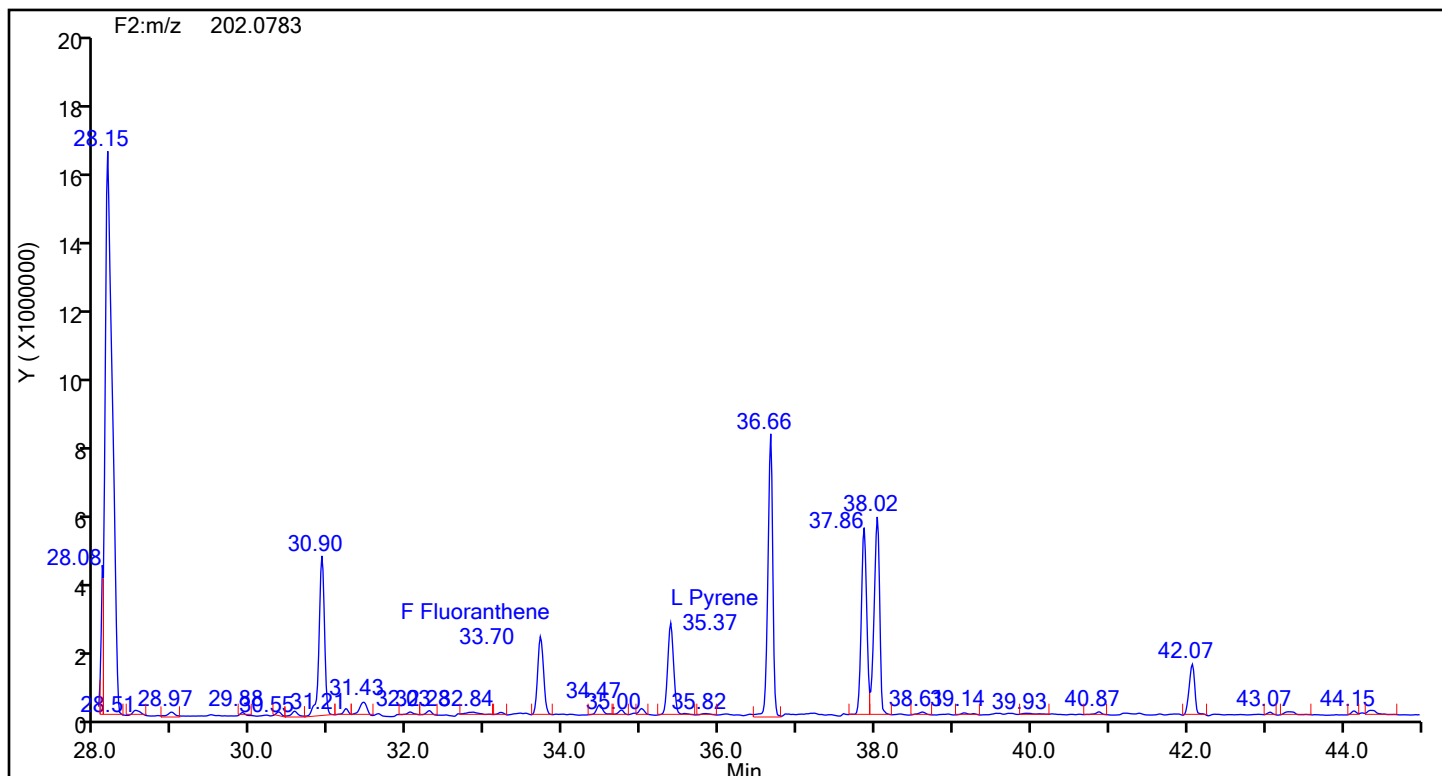


## Anthracin-d10 Standards



## Eurofins Knoxville

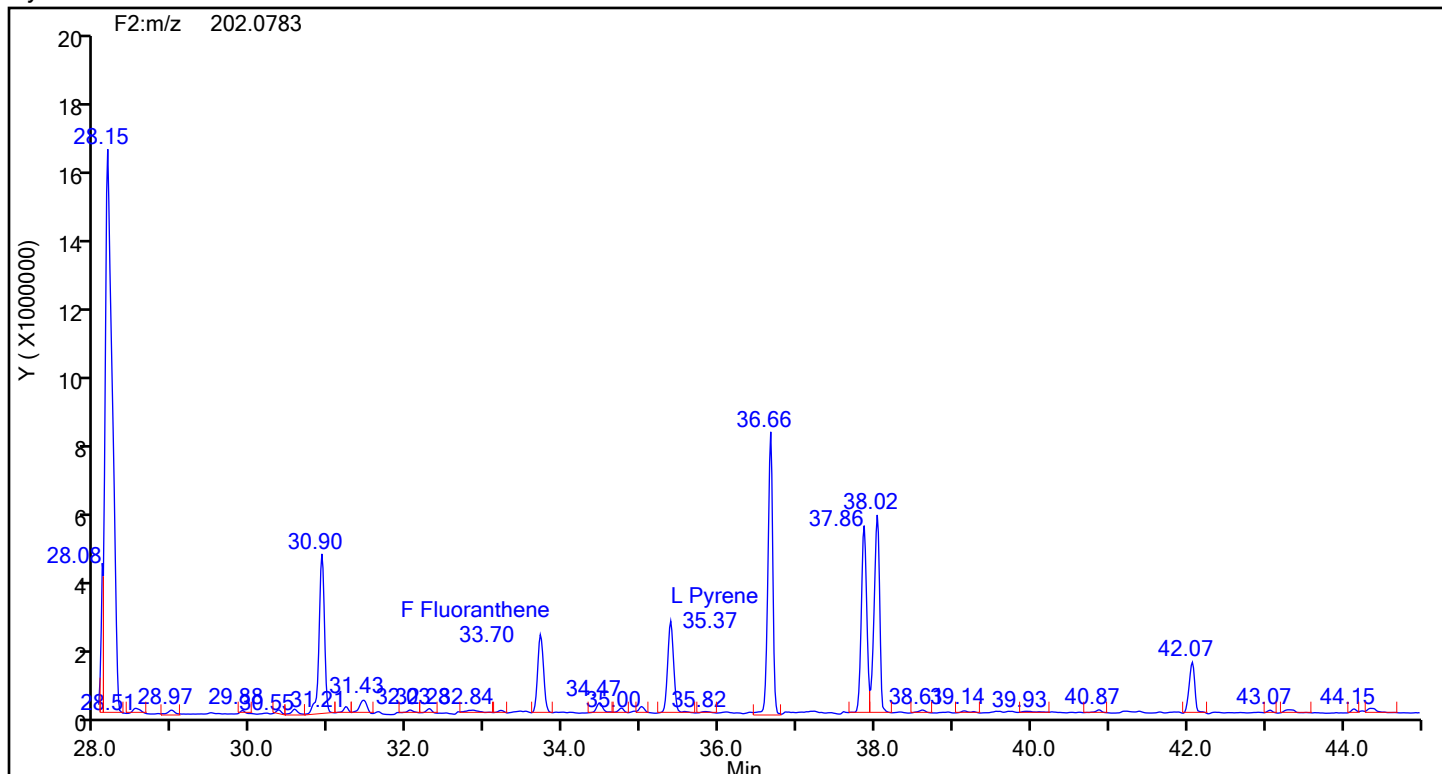
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Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



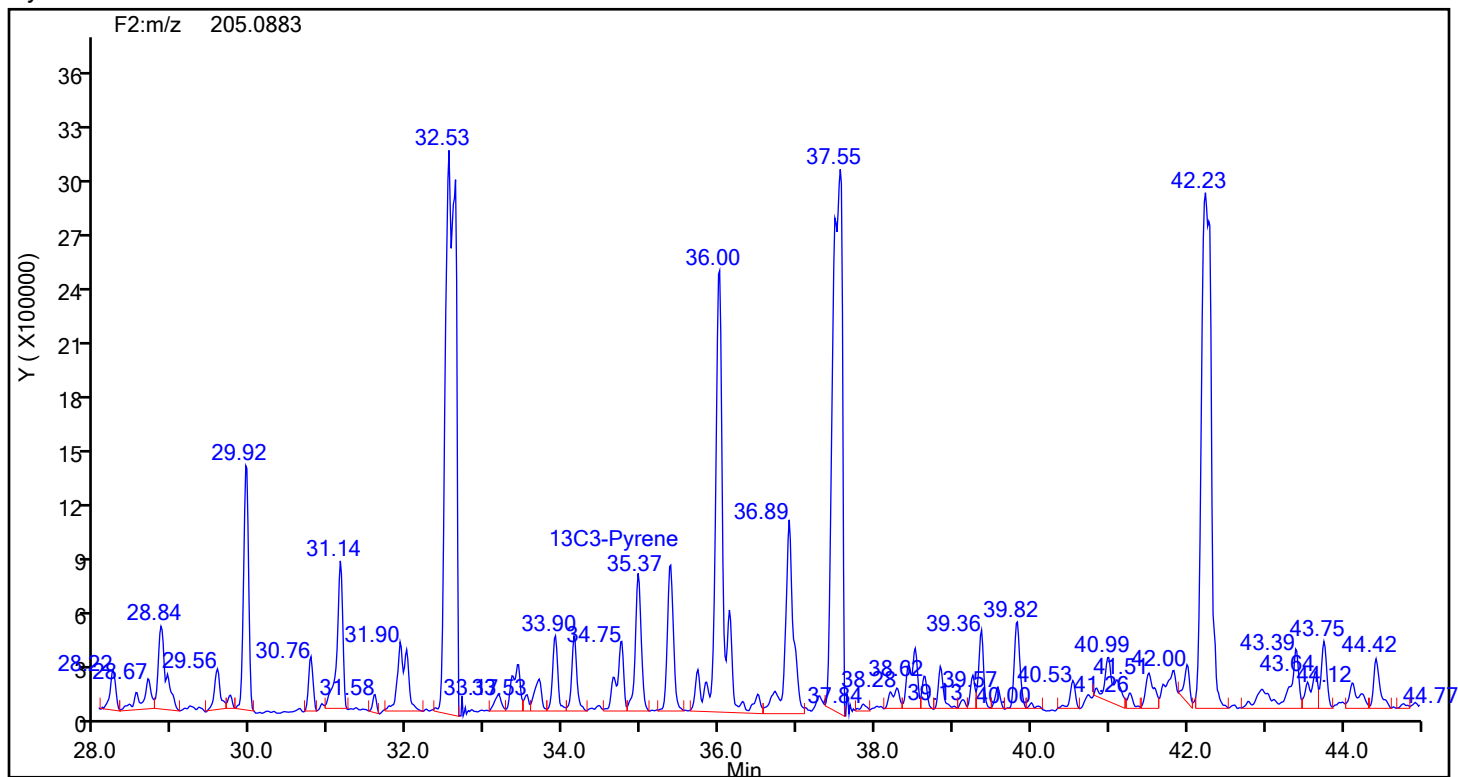
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



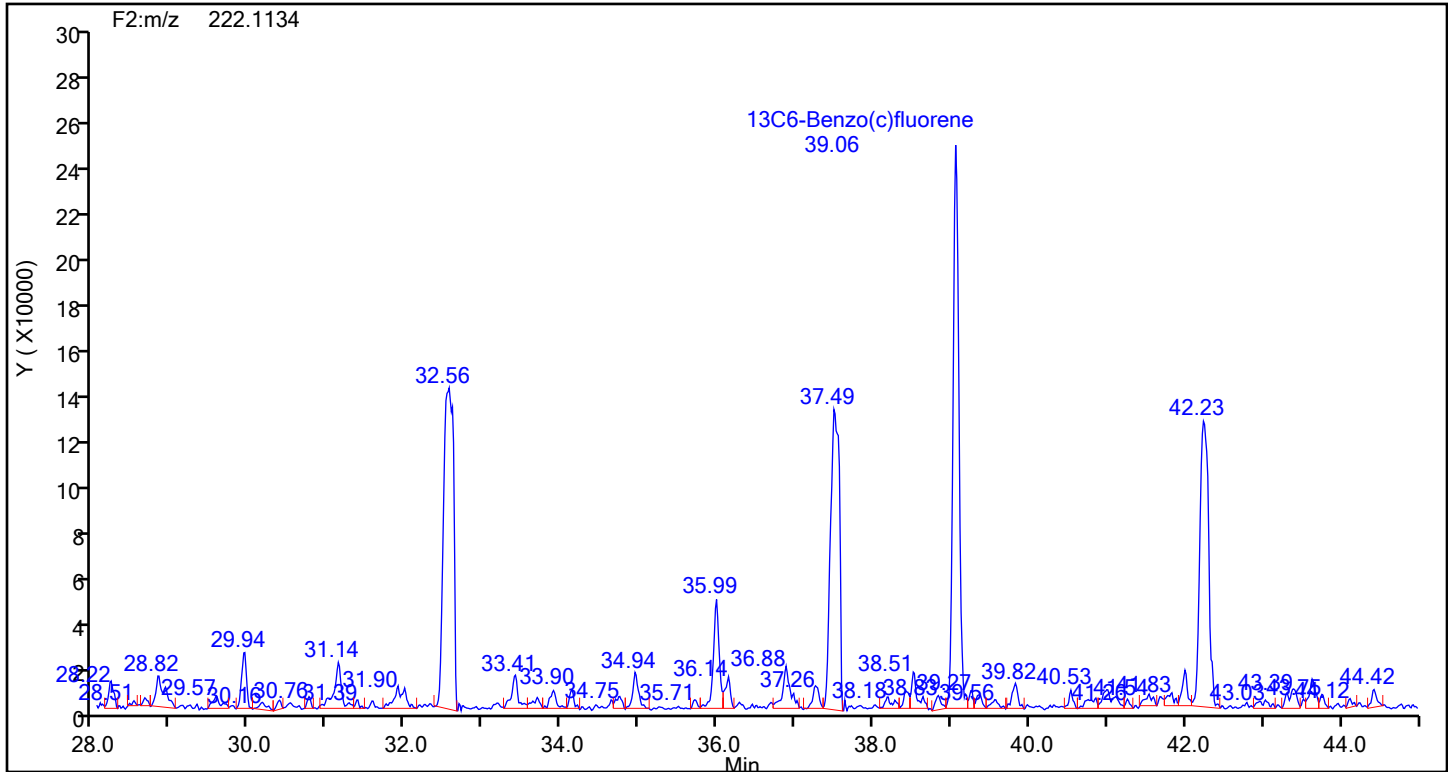
## Pyrene Standards



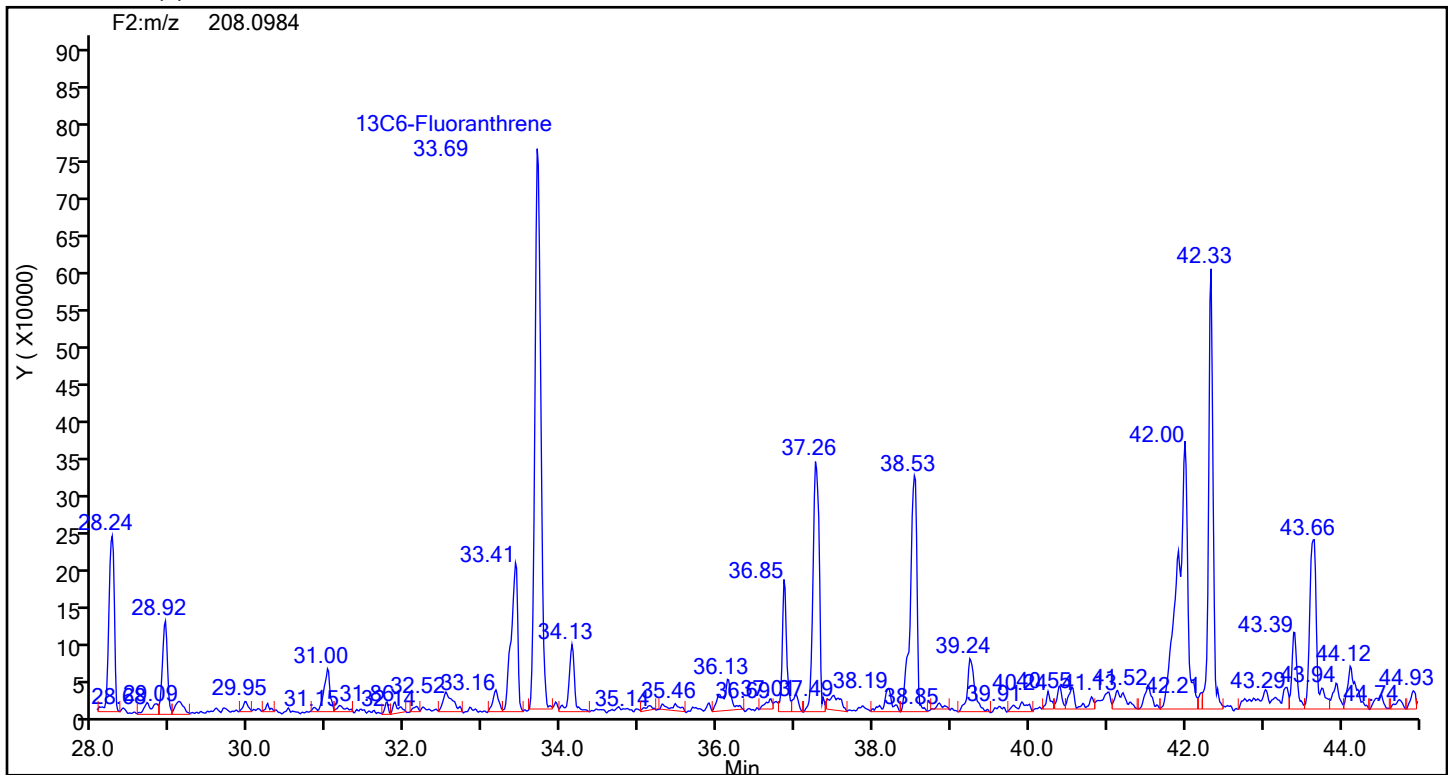
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



## 13C6-Benzo(c)fluorene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d

Injection Date: 17-Jul-2024 04:33:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED

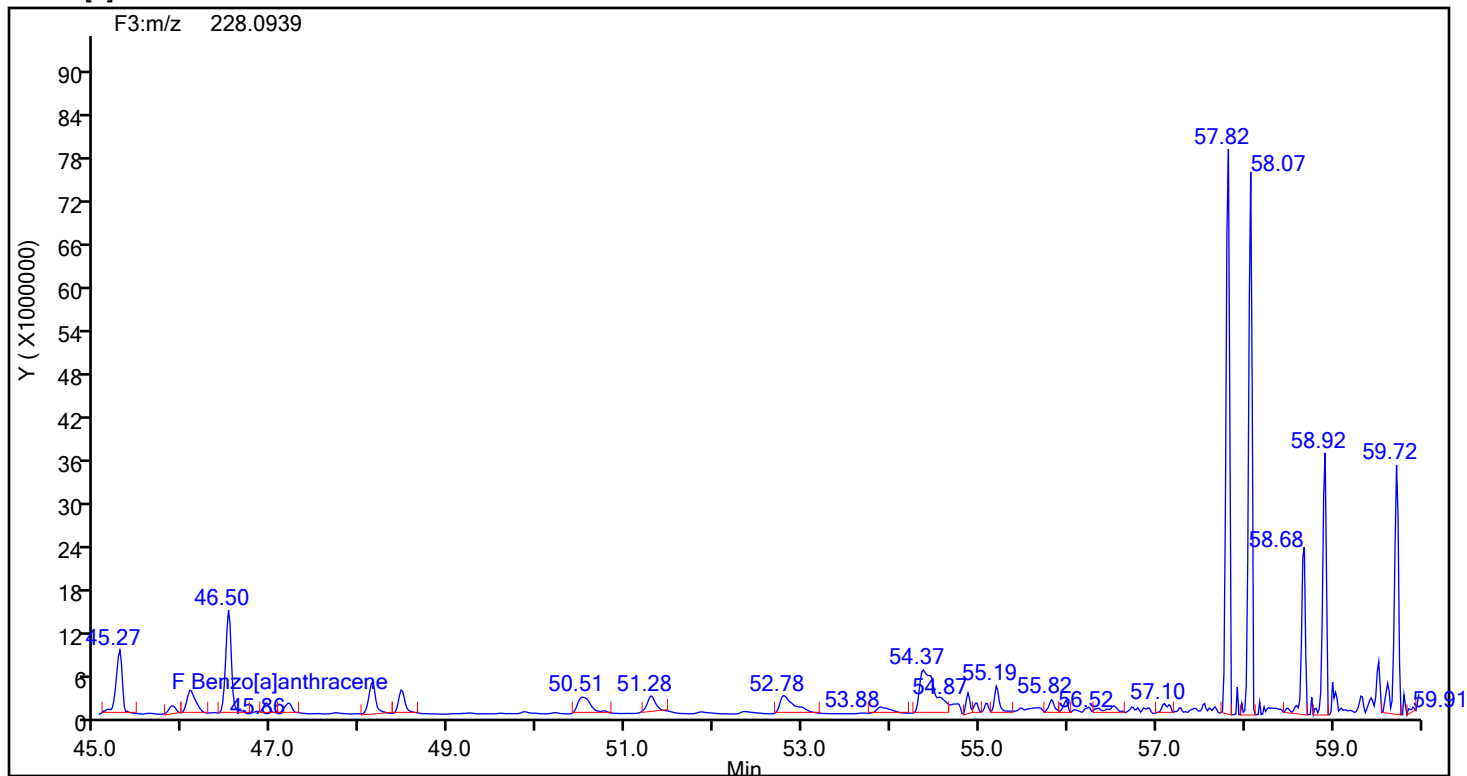
Worklist#: 88831

Sample Line#: 8

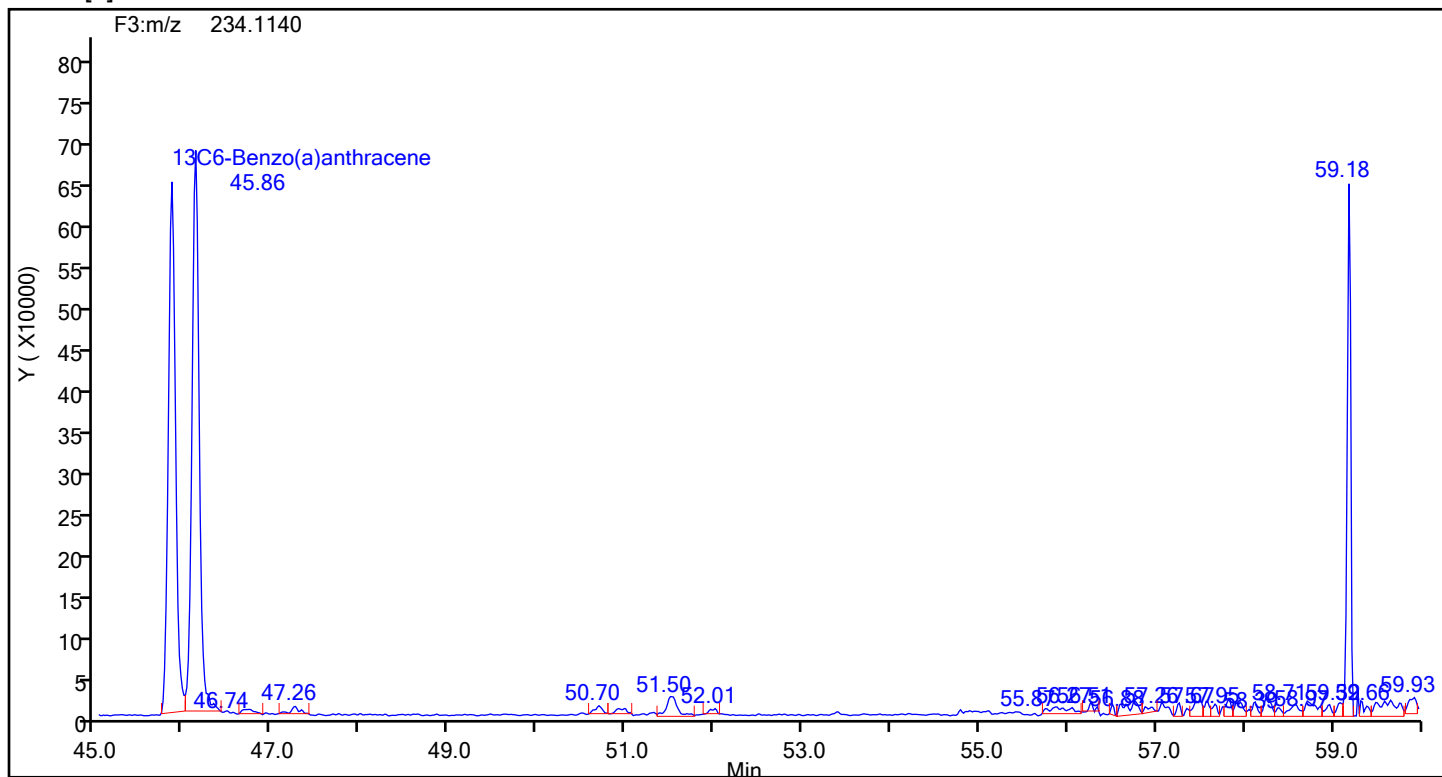
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[a]anthracene



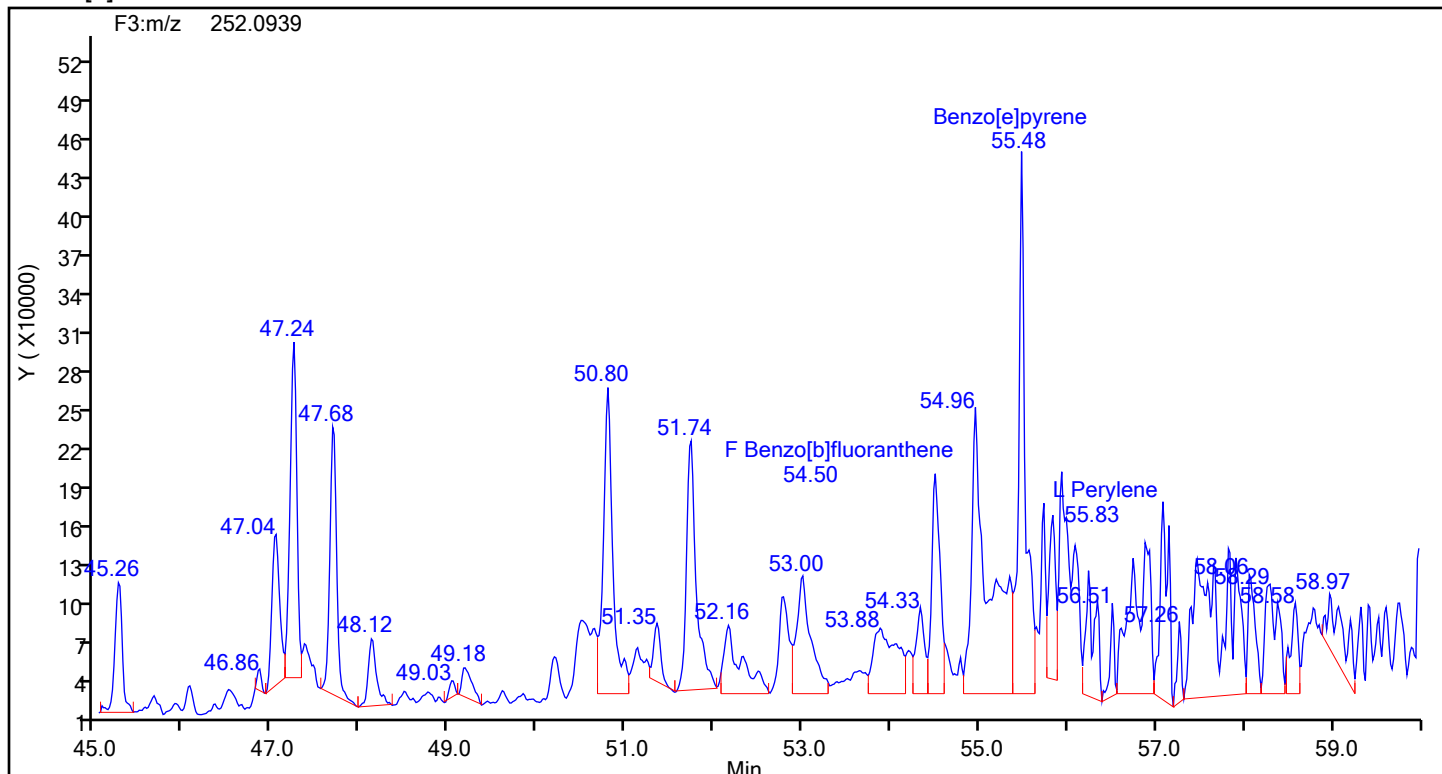
## Benzo[a]anthracene Standards



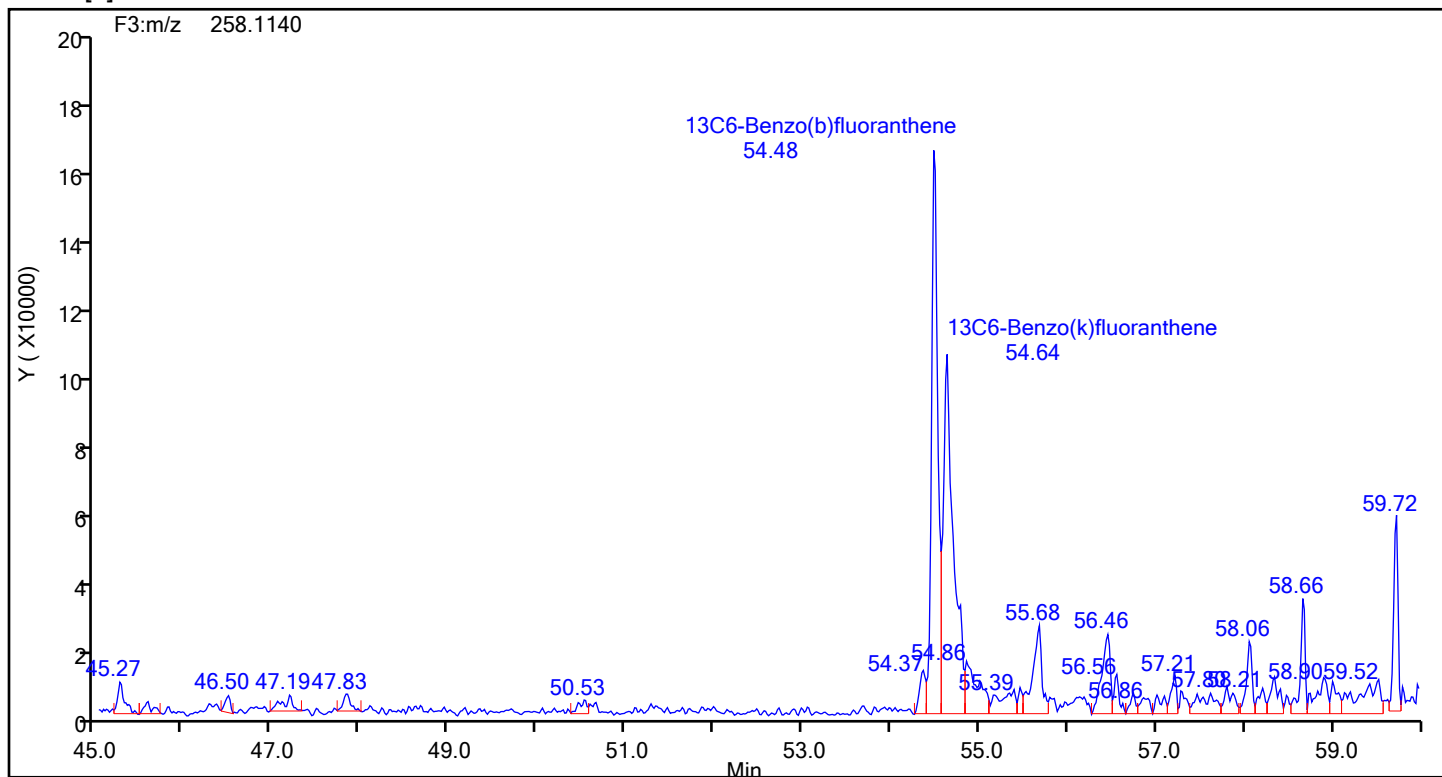
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards





## Eurofins Knoxville

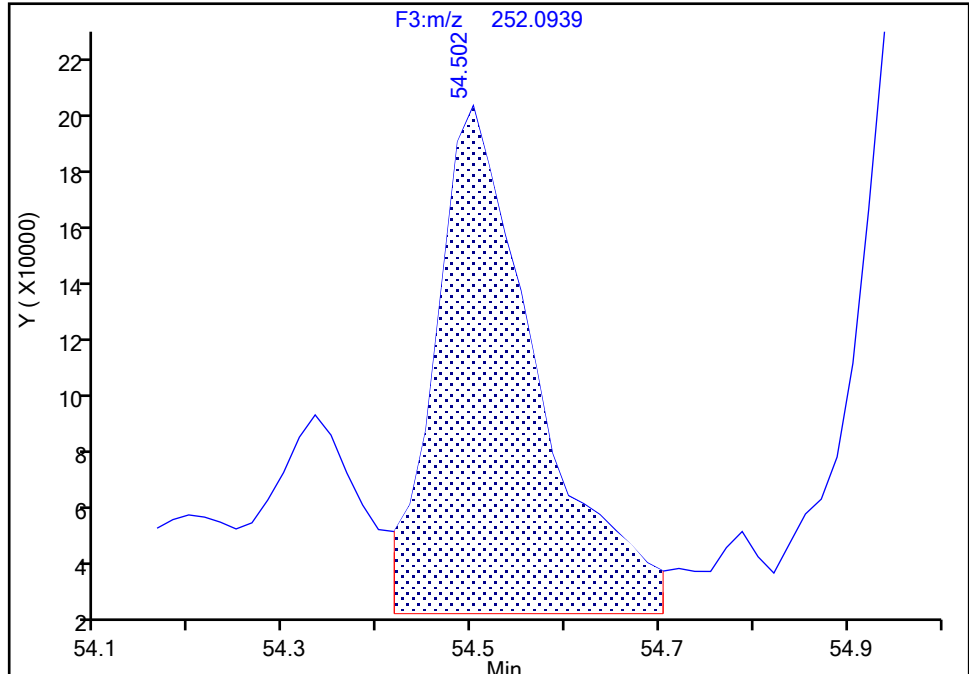
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-5-D Lab Sample ID: 140-36940-5  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**Benzo[b]fluoranthene, CAS: 205-99-2**

Signal: 1

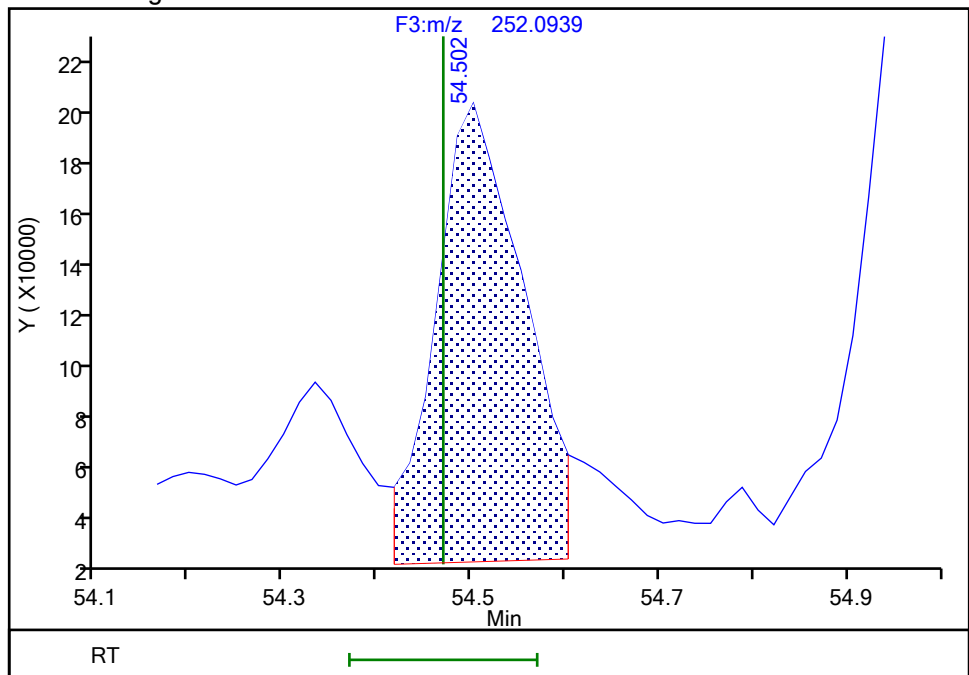
RT: 54.50  
Area: 1277012  
Amount: 13.924619  
Amount Units: pg/ul

## Processing Integration Results



RT: 54.50  
Area: 1141398  
Amount: 12.445875  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:07:47 -04:00:00 (UTC)

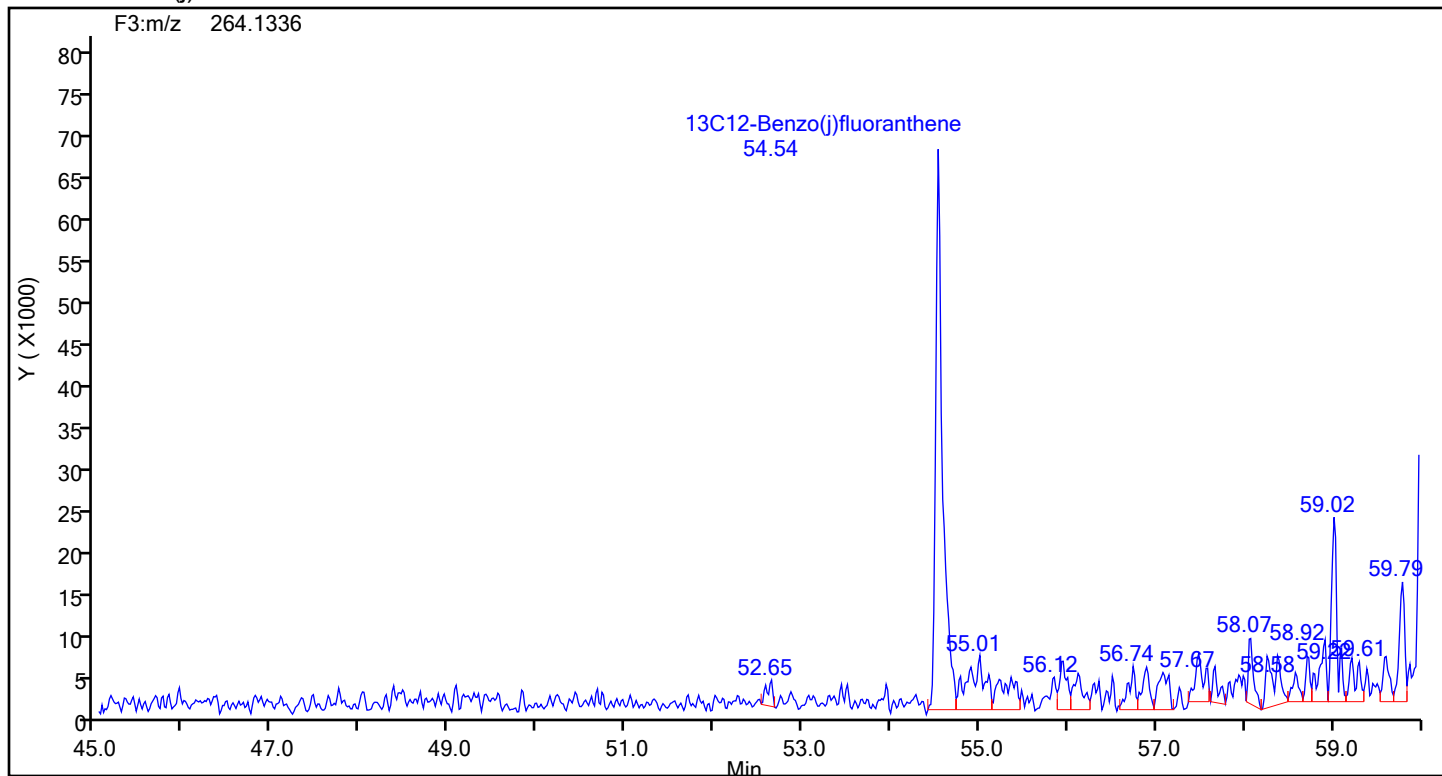
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

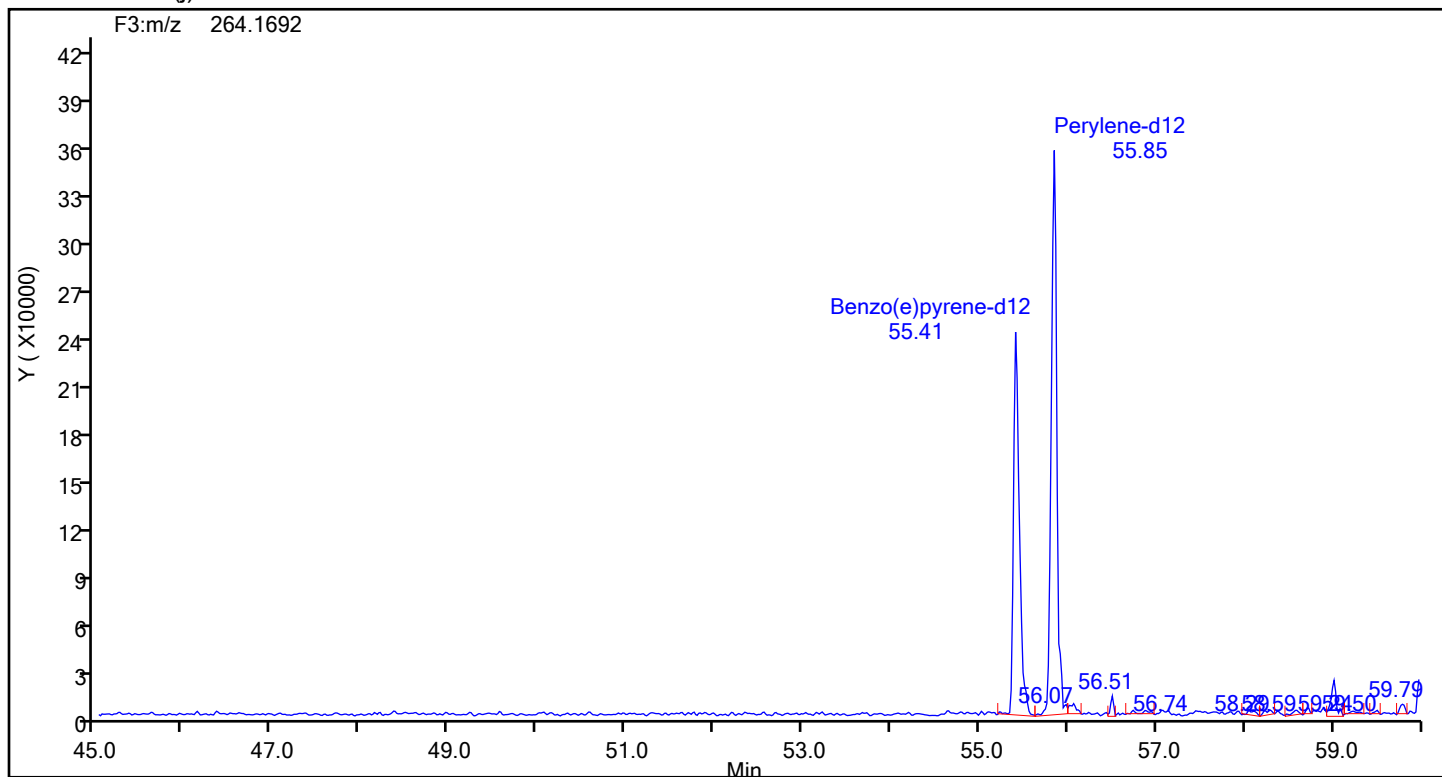
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



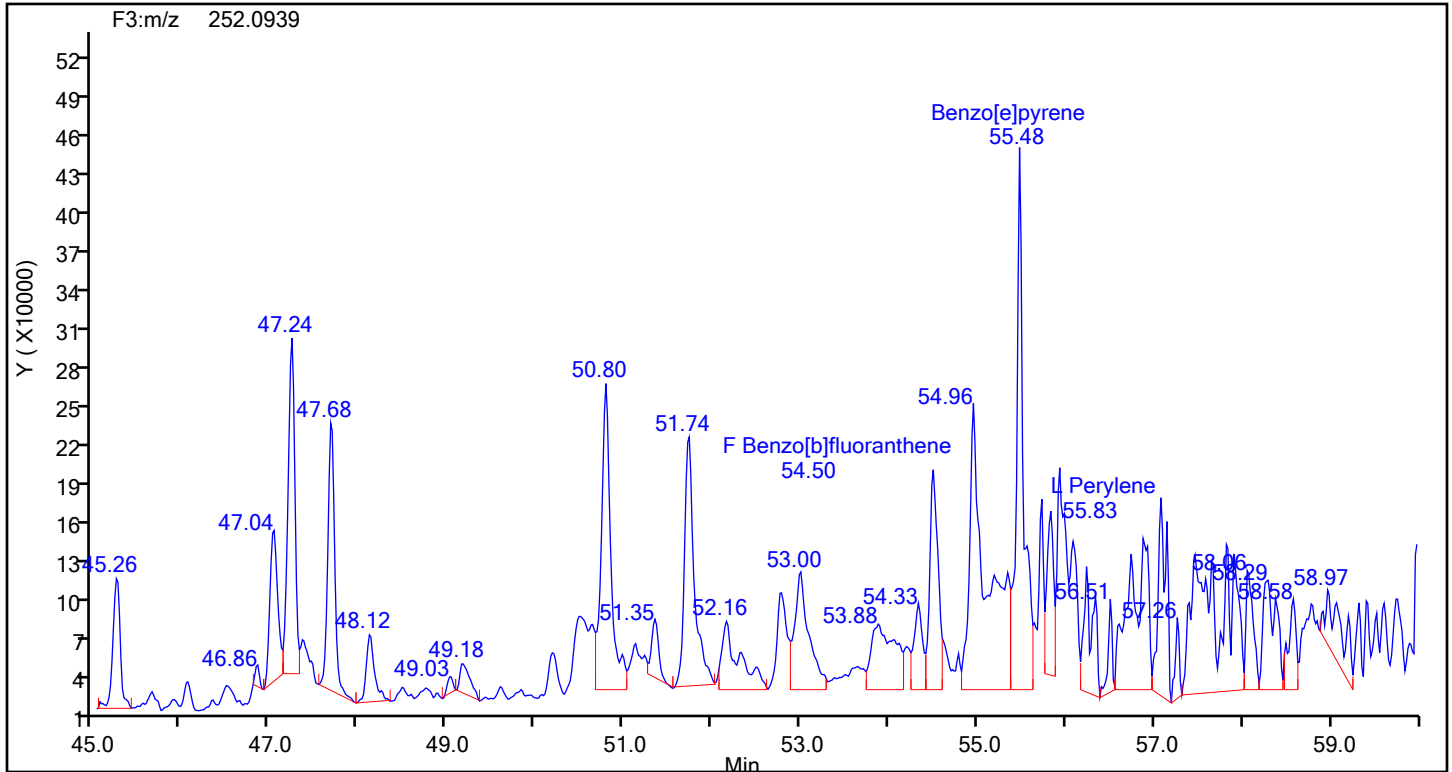
## 13C12-Benzo(j)fluoranthene Standards



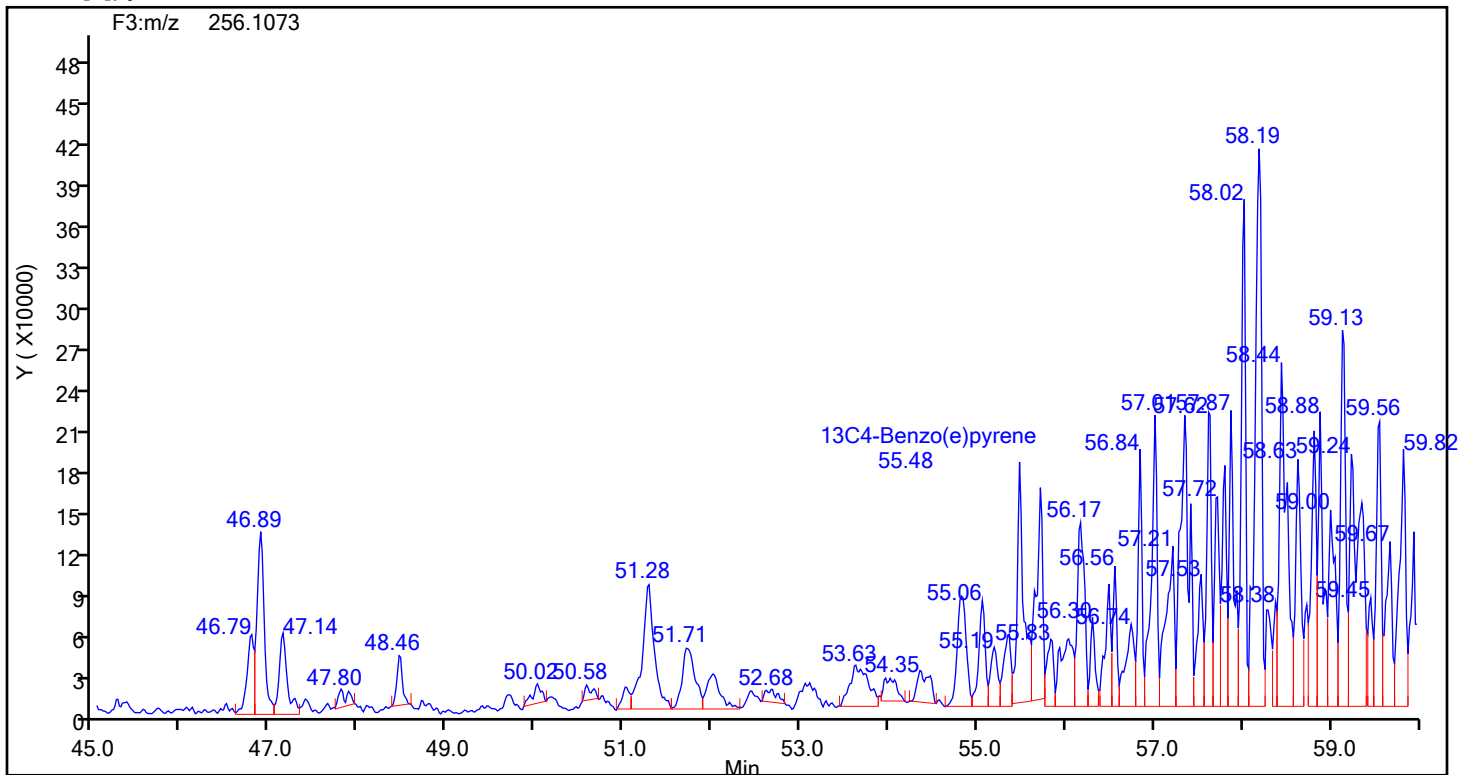
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



## Benzo[e]pyrene Standards



## Eurofins Knoxville

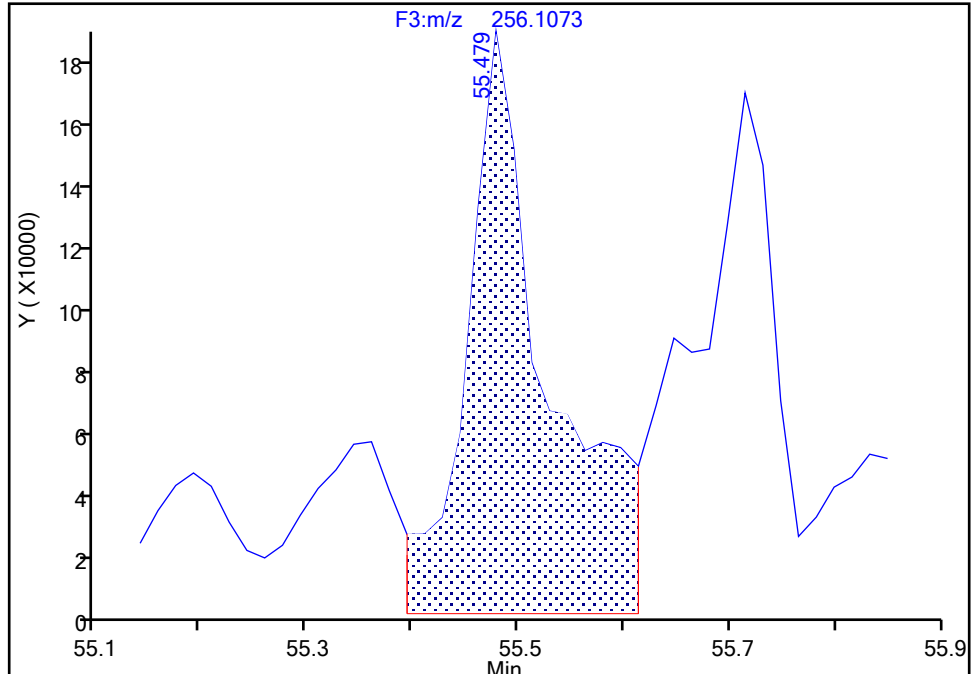
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-5-D Lab Sample ID: 140-36940-5  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

**13C4-Benzo(e)pyrene, CAS: STL03382**

Signal: 1

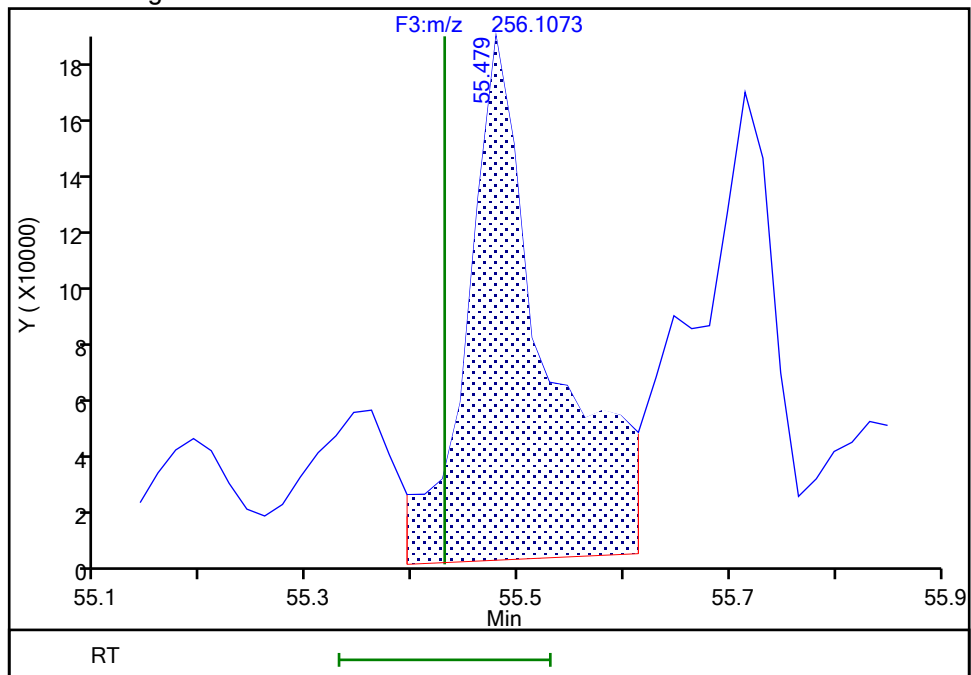
RT: 55.48  
Area: 949017  
Amount: 2.630472  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.48  
Area: 941749  
Amount: 2.610327  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:08:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

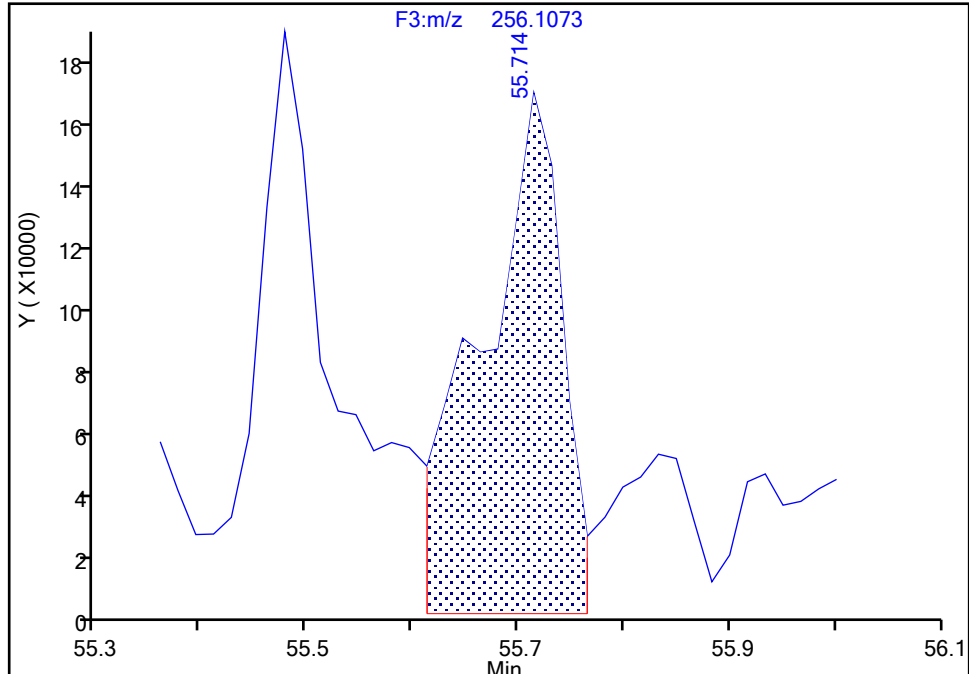
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-5-D Lab Sample ID: 140-36940-5  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

**13C4-Benzo(a)pyrene, CAS: STL03359**

Signal: 1

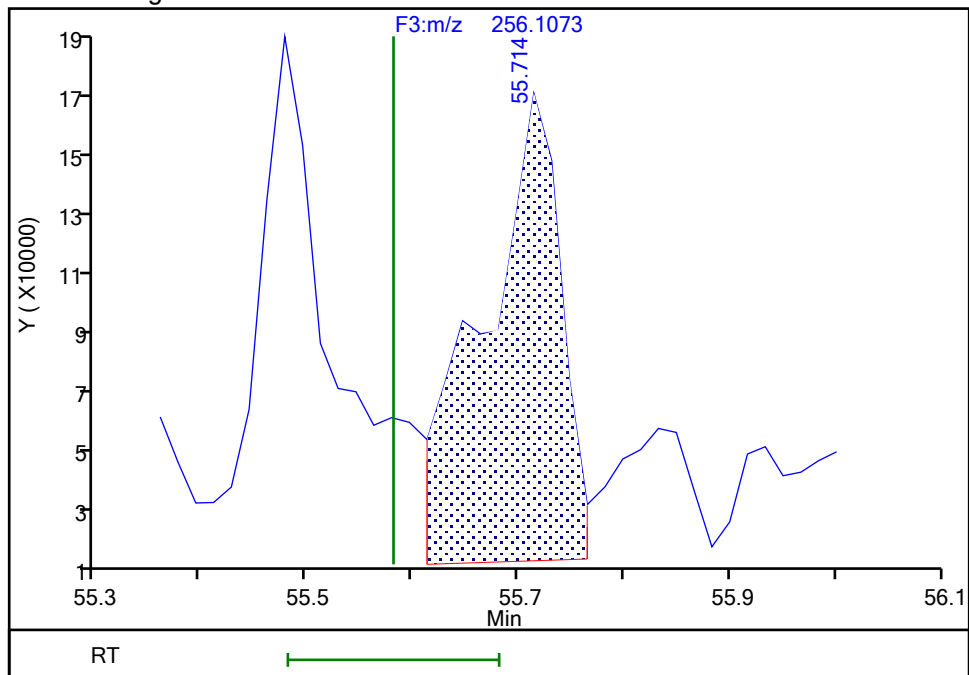
RT: 55.71  
Area: 830034  
Amount: 2.428341  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.71  
Area: 813889  
Amount: 2.381107  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:08:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d

Injection Date: 17-Jul-2024 04:33:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED

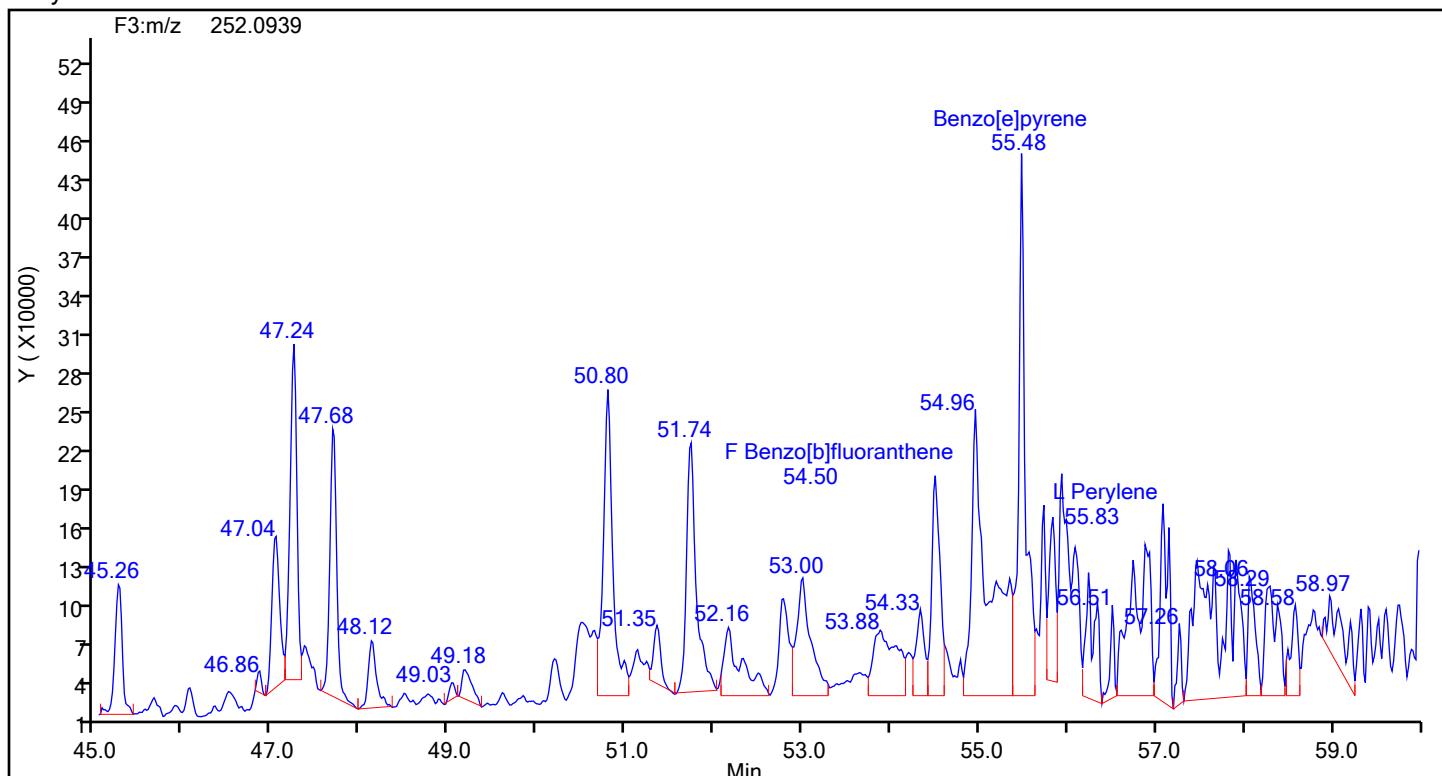
Worklist#: 88831

Sample Line#: 8

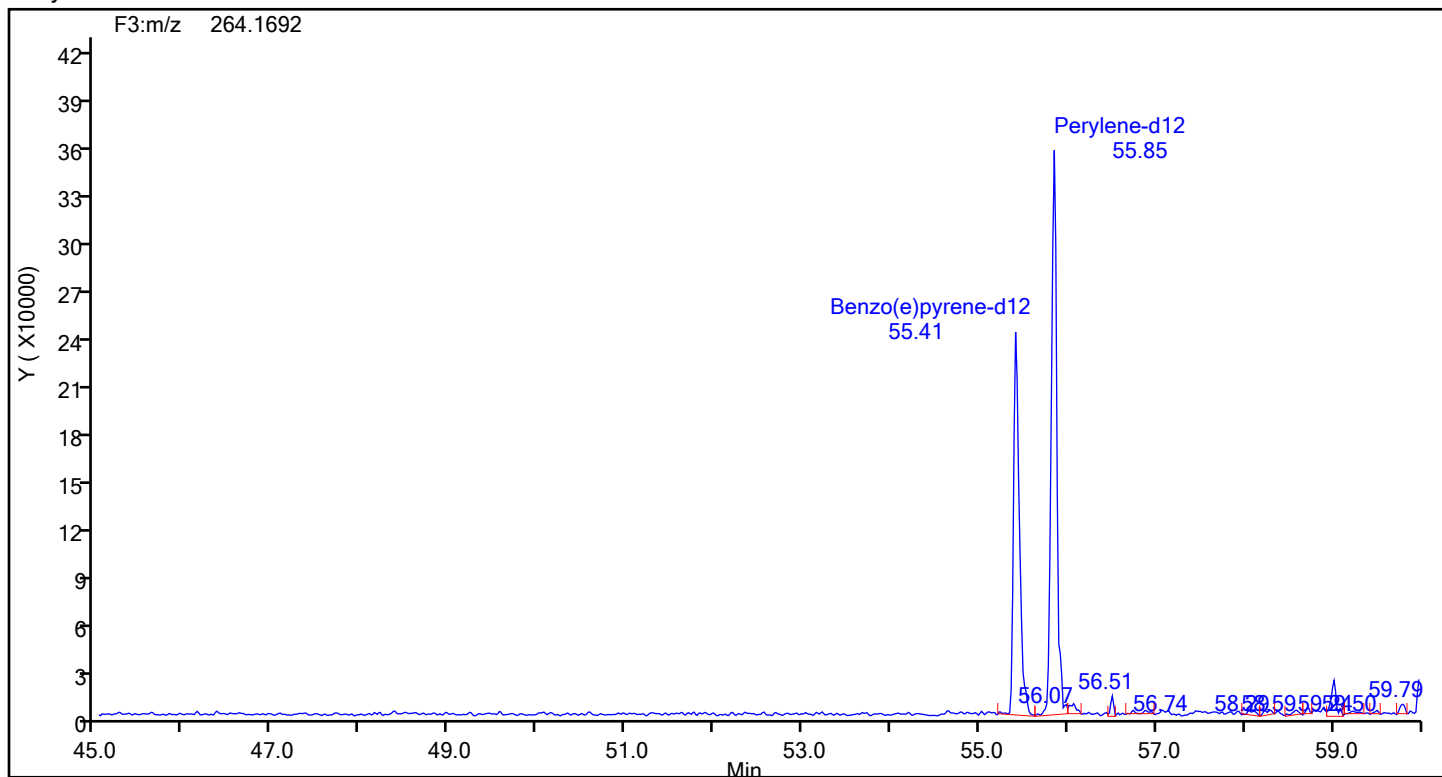
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Perylene



## Perylene Standards



## Eurofins Knoxville

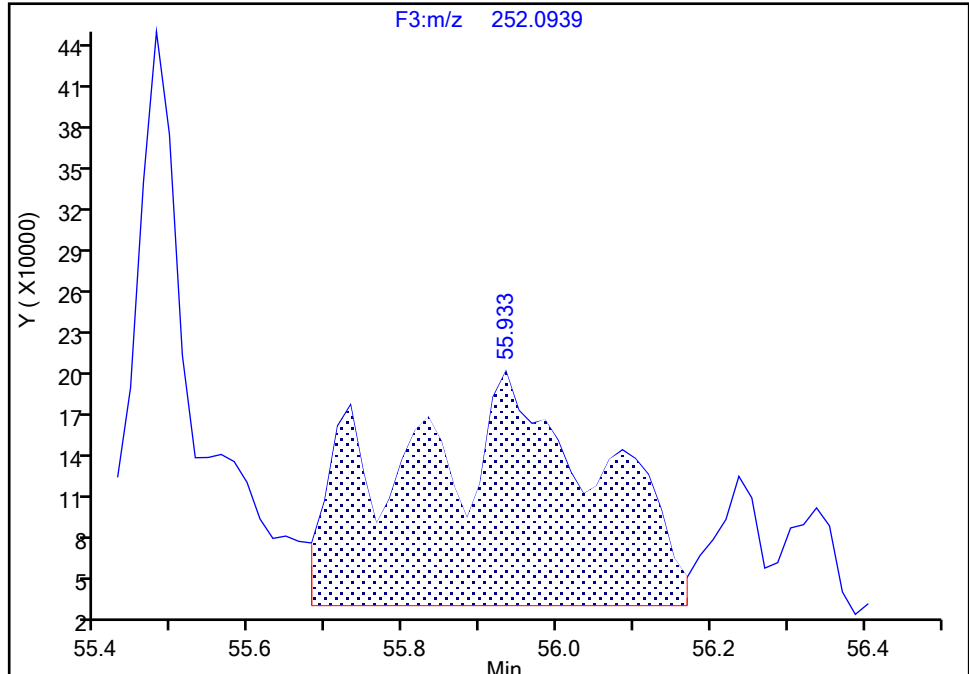
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-5-D Lab Sample ID: 140-36940-5  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Perylene, CAS: 198-55-0

Signal: 1

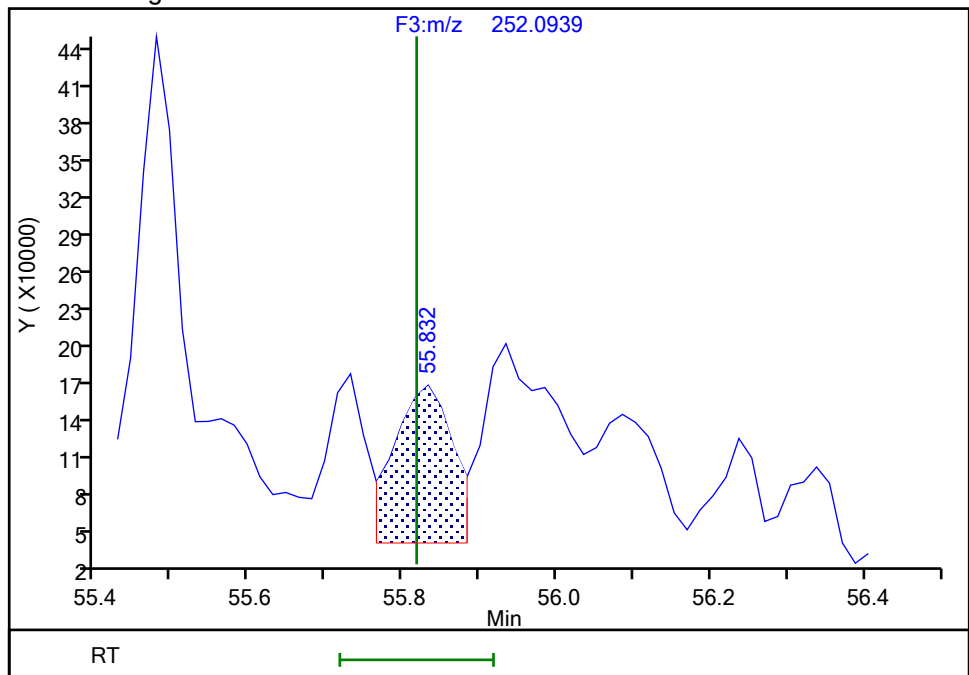
RT: 55.93  
Area: 3072596  
Amount: 13.941079  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.83  
Area: 706972  
Amount: 3.207695  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:08:19 -04:00:00 (UTC)

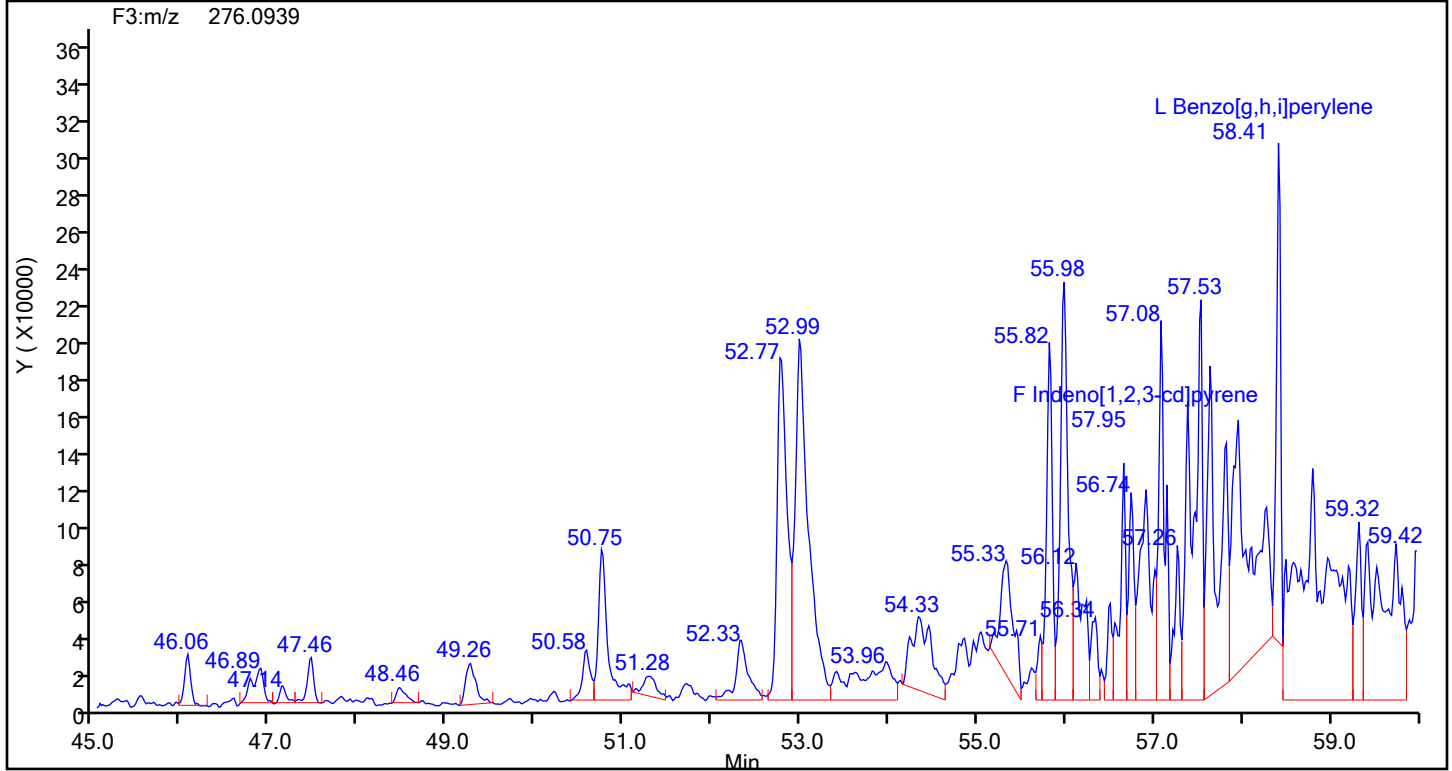
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

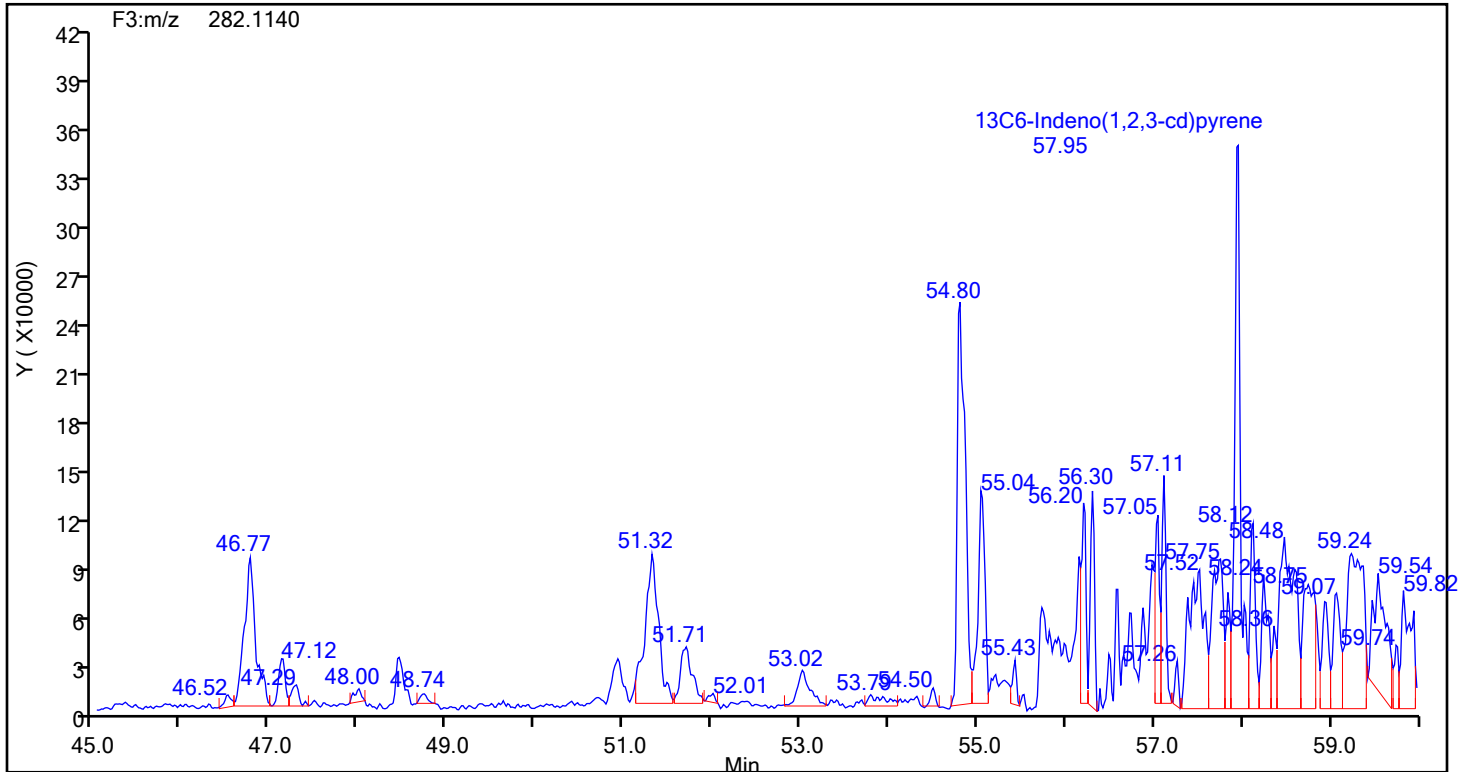
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards





## Eurofins Knoxville

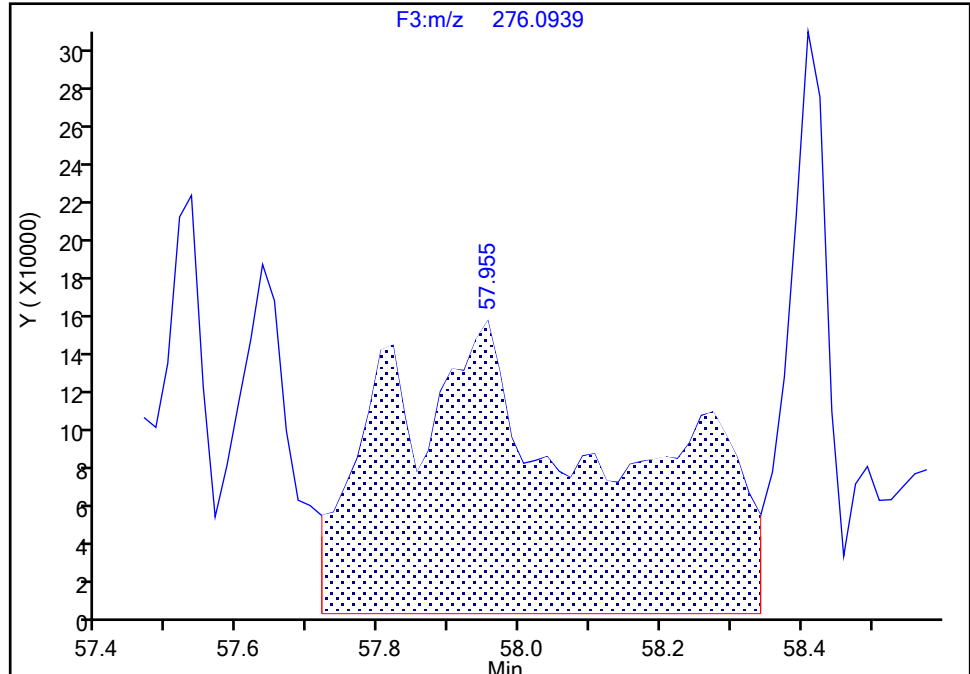
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-5-D Lab Sample ID: 140-36940-5  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

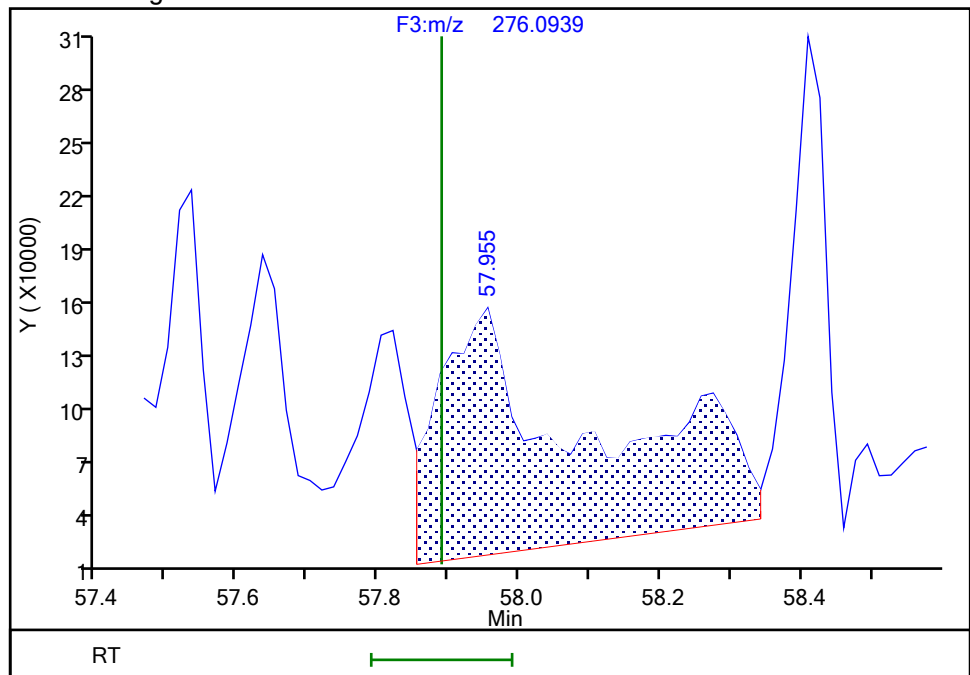
RT: 57.95  
Area: 3402930  
Amount: 19.328161  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.95  
Area: 2022722  
Amount: 11.488775  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:09:21 -04:00:00 (UTC)

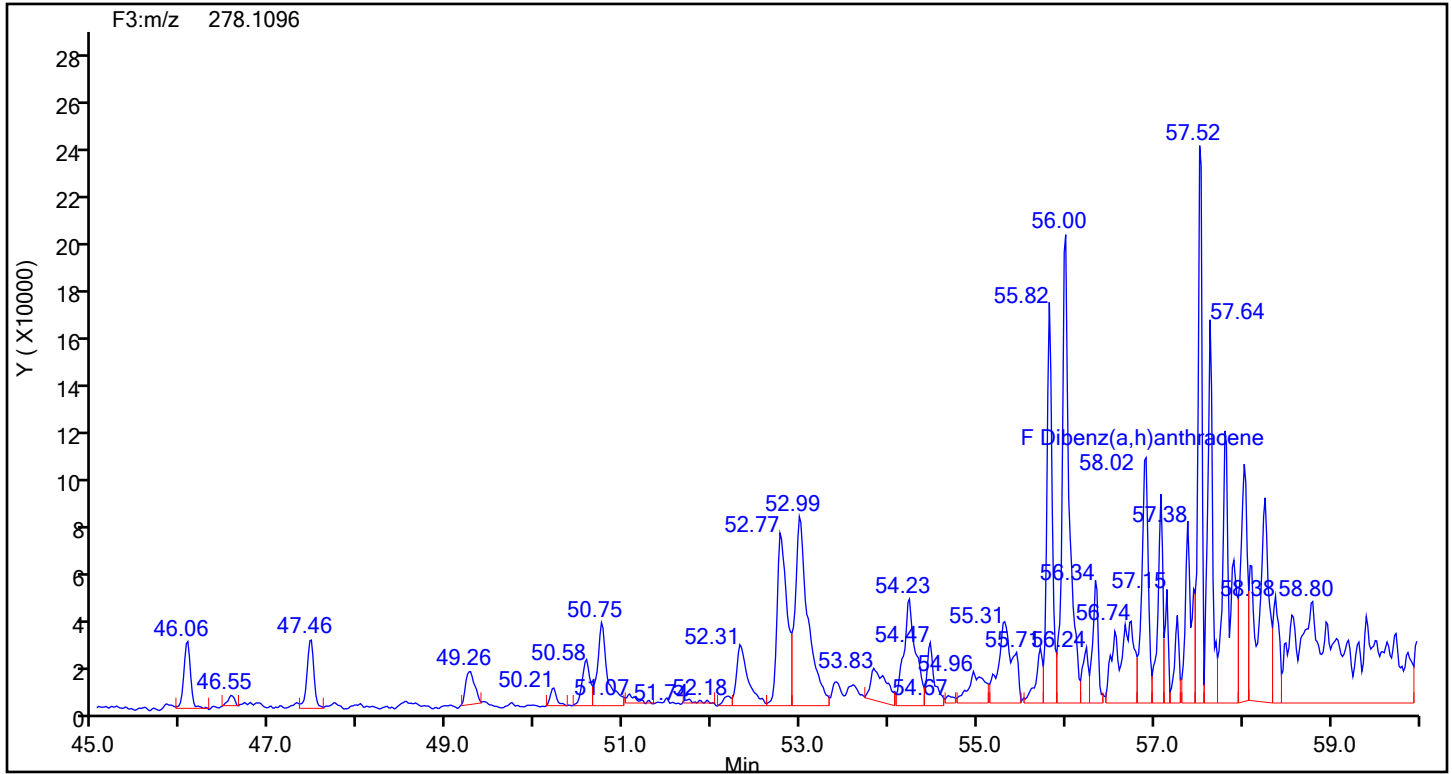
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

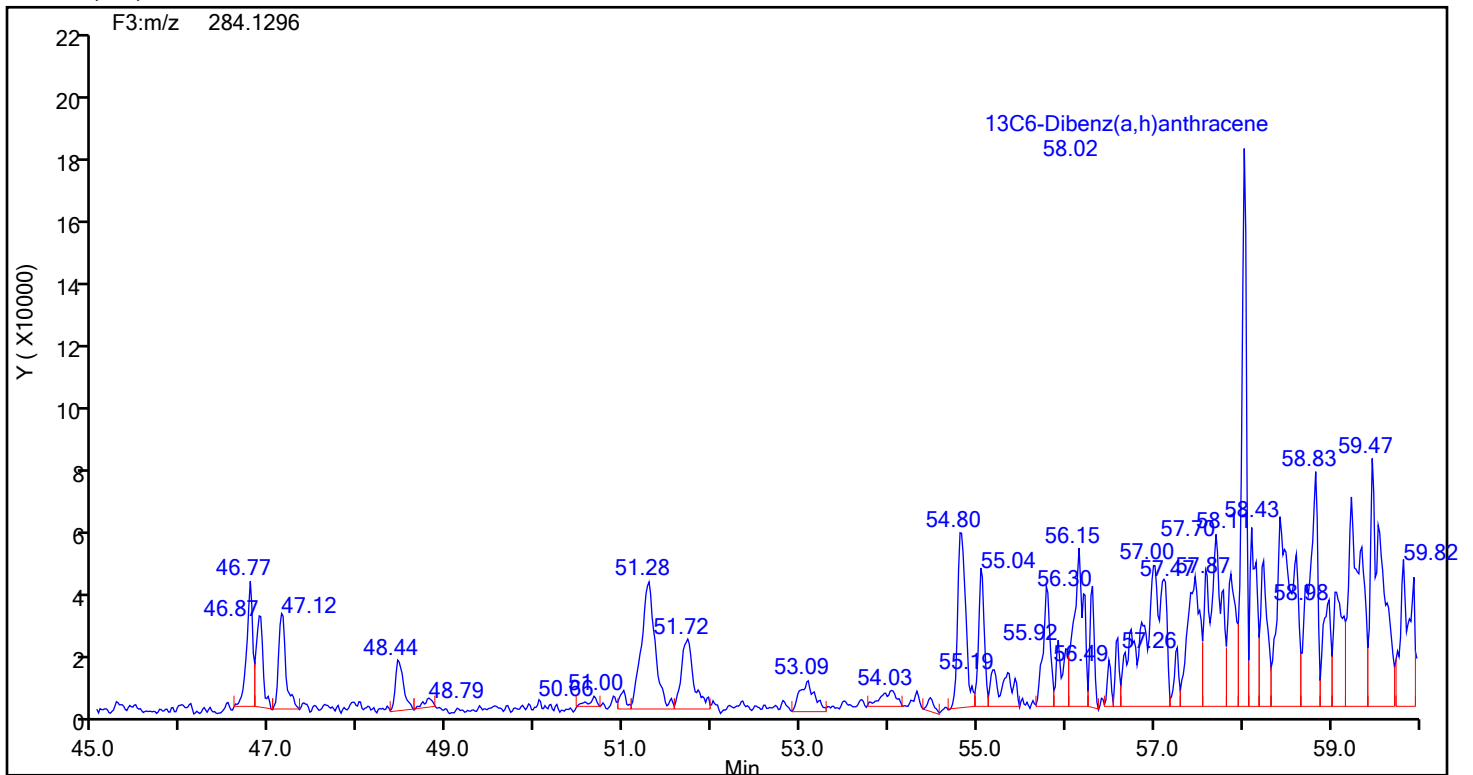
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

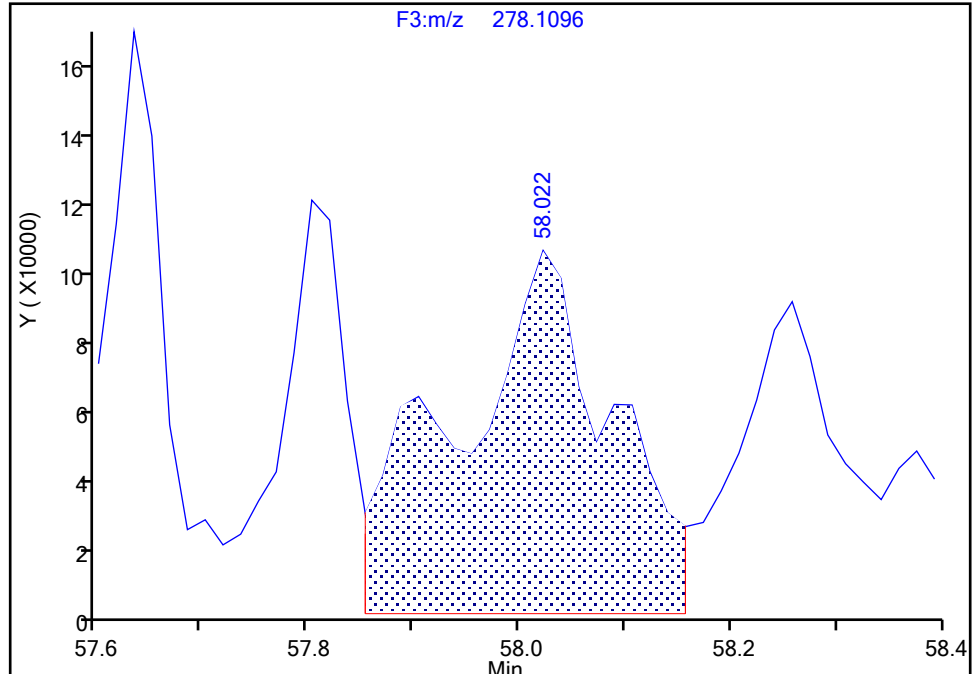
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-5-D Lab Sample ID: 140-36940-5  
Client ID: M23 - EPN 4-1\IN-701-RUN 5-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

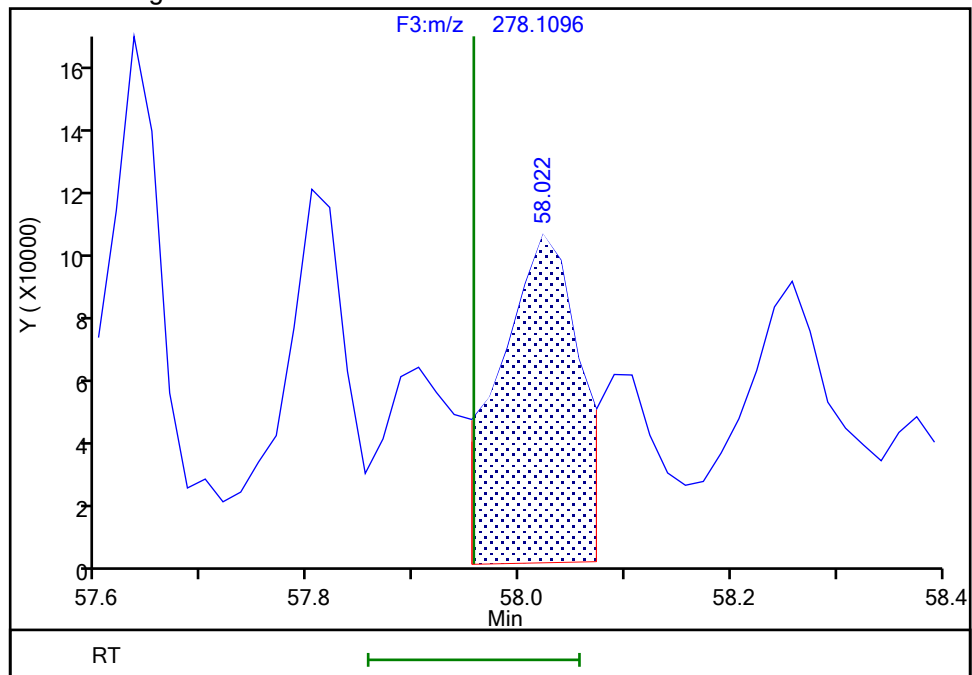
RT: 58.02  
Area: 1039657  
Amount: 14.333608  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.02  
Area: 557964  
Amount: 7.692573  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:09:13 -04:00:00 (UTC)

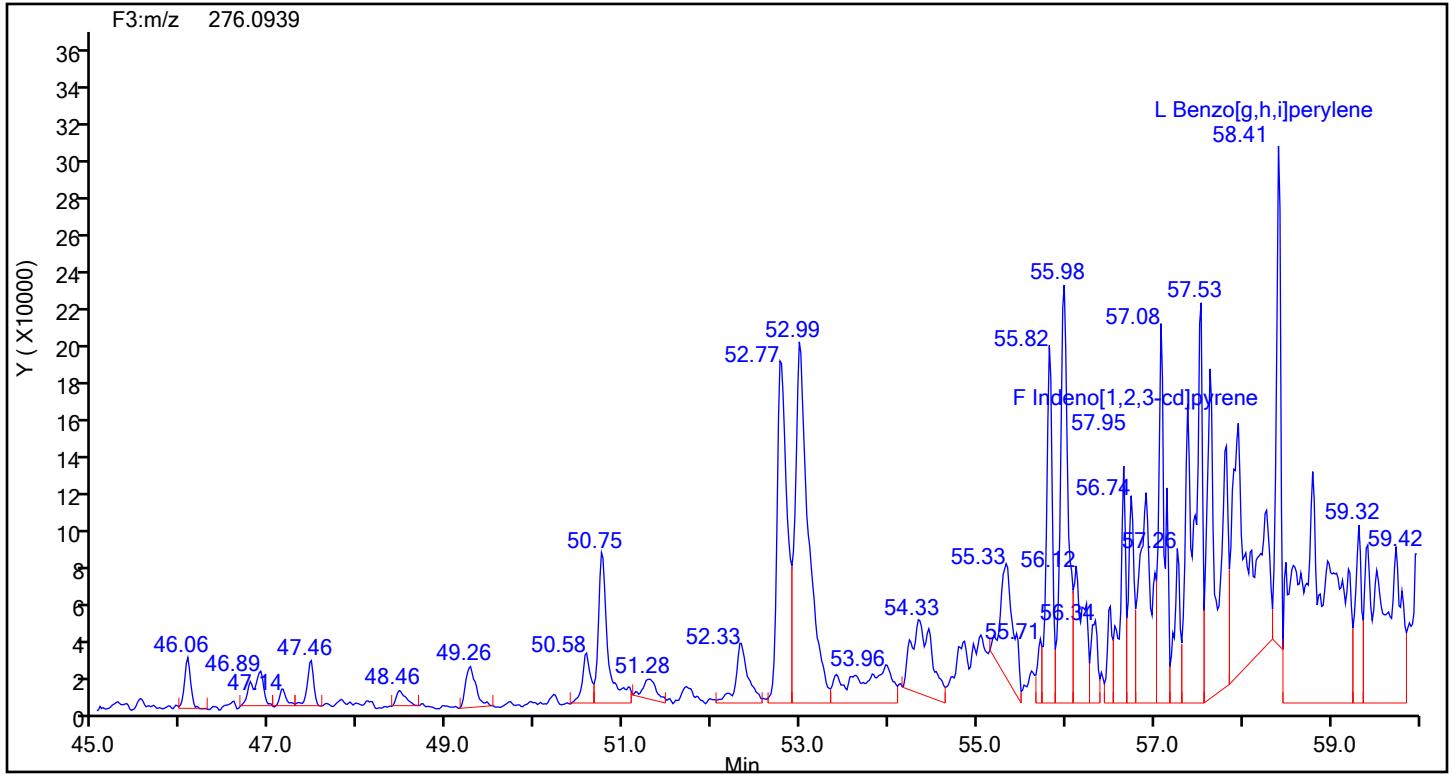
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

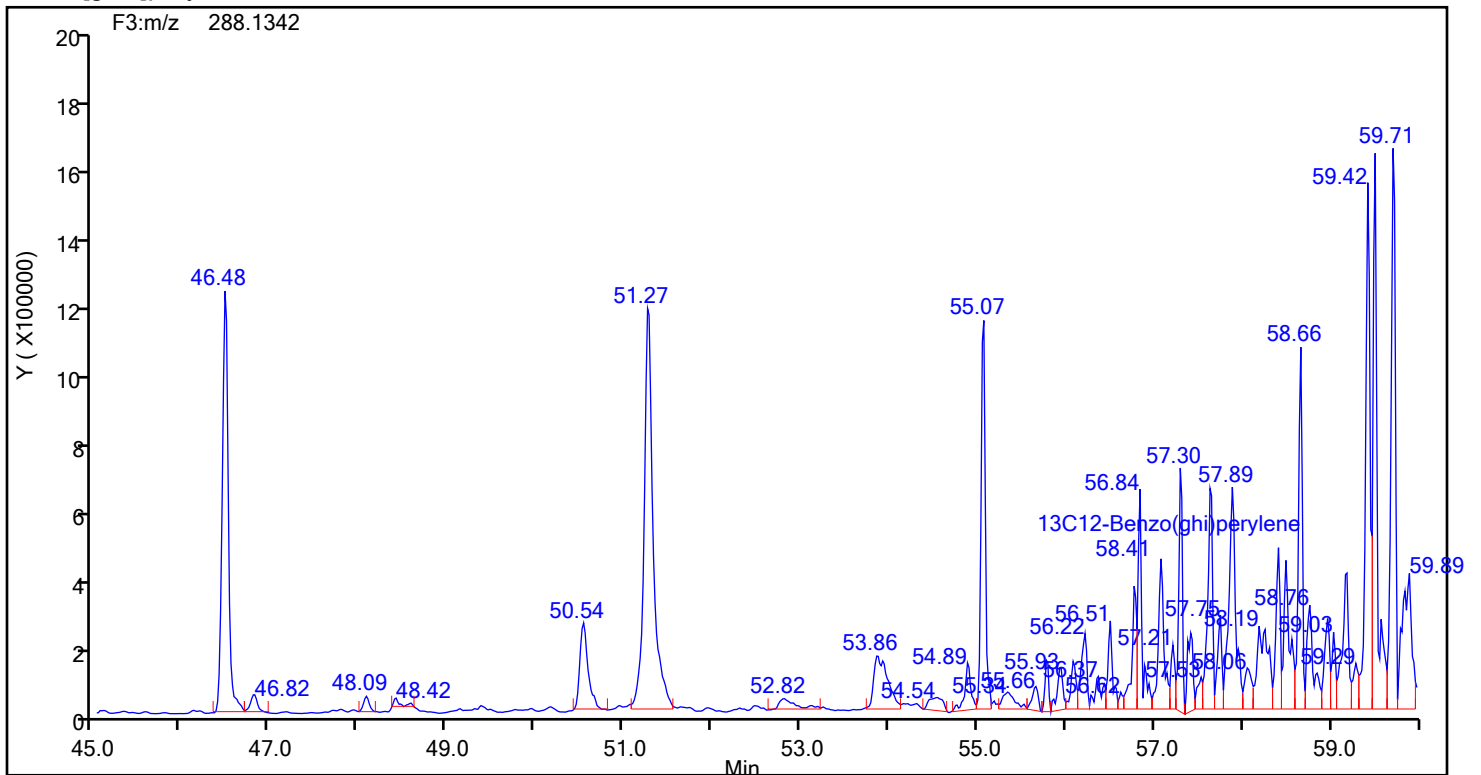
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88831 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



## Eurofins Knoxville

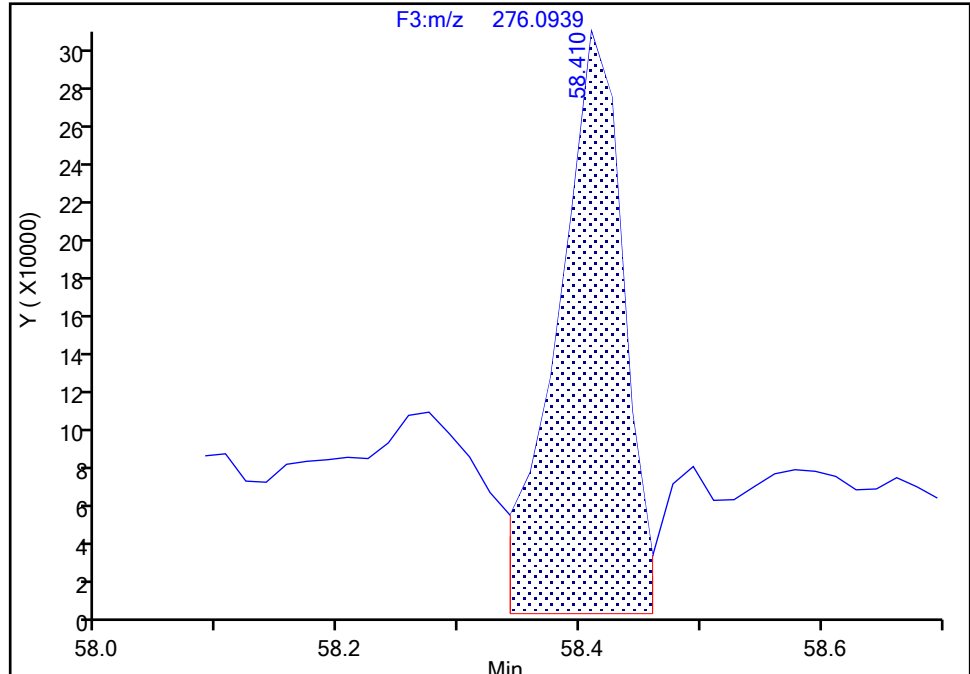
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Injection Date: 17-Jul-2024 04:33:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-5-D Lab Sample ID: 140-36940-5  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

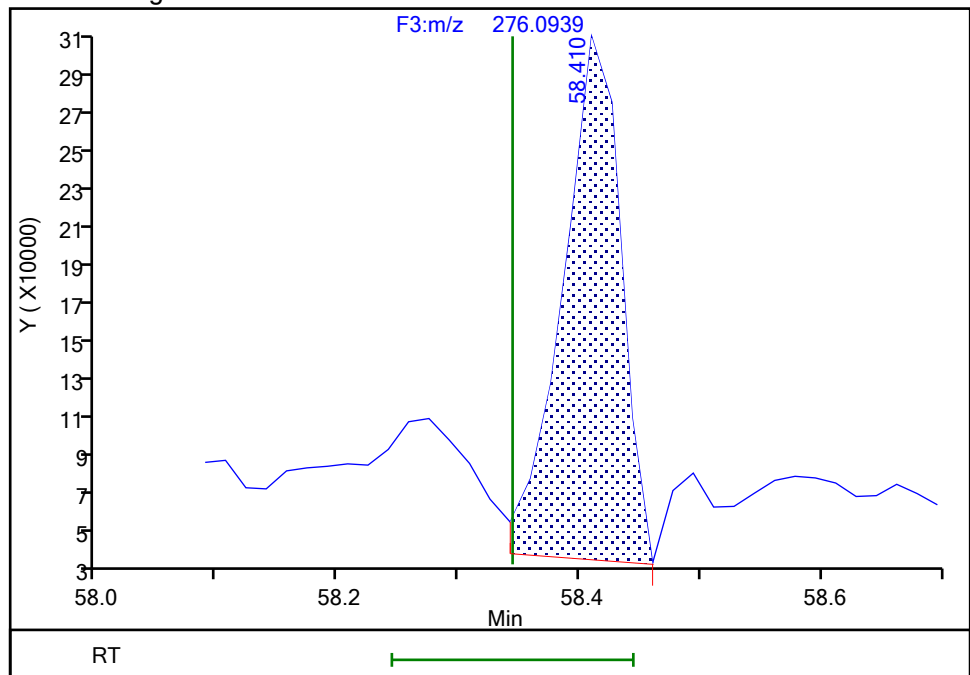
RT: 58.41  
Area: 1121418  
Amount: 5.595524  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.41  
Area: 898925  
Amount: 4.485353  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:09:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-5-d.d  
Lims ID: 140-36940-A-5-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 04:33:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033530-008  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 16:09:25 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 16:02:50

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.6281	62.81
13C6-Benzo(c)fluorene	66.7	7.02	105.37
13C12-Benzo(j)fluoranthene	66.7	1.24	18.66

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-5  
5-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-5-d-20x.d  
Analysis Method: 23 Date Collected: 05/17/2024 12:30  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:30  
Sample wt/vol: 1(Sample) Date Analyzed: 07/28/2024 18:10  
Con. Extract Vol.: 30 (mL) Dilution Factor: 20  
Injection Volume: 1 (uL) GC Column: Rxi-5SilMS 25 ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 89271 Units: ng/Sample  
Preparation Batch No.: 87620 Instrument ID: Excalibur D3PAH DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	17900	H B	1500	1500	8.89

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	54		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\140-36940-a-5-d-20x.d  
Lims ID: 140-36940-A-5-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jul-2024 18:10:00 ALS Bottle#: 0 Worklist Smp#: 14  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Sample Info:  
Misc. Info.: 140-0033697-014  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 29-Jul-2024 08:16:53 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1627

First Level Reviewer: TT6I

Date: 29-Jul-2024 08:19:36

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:26	2831990		3.3746	2.680	2.680	0.002454	0.002454	53.60	
Naphthalene	11:26	435251616		1.2893	596.0	596.0	0.2963	0.2963		
D 13C6-2-Methylnaphthalene	13:48	1618014		1.6031	3.223	3.223	0.007115	0.007115	64.47	
2-Methylnaphthalene	13:48	92736311		1.2786	224.1	224.1	0.1071	0.1071		
D 13C6-Acenaphthylene	16:40	2378516		1.6520	4.598	4.598	0.003644	0.003644	91.96	
Acenaphthylene	16:40	2758640		2.3661	4.064	4.064	0.0953	0.0953		
* Acenaphthene-d10	17:14	782804		3.5E+04	2.500	2.500				
D 13C6-Acenaphthene	17:21	1434243		0.9792	4.678	4.678	0.005288	0.005288	93.56	
Acenaphthene	17:22	1637258		1.2697	4.495	4.495	0.1792	0.1792		
D 13C6-Fluorene	19:38	1406384		0.8898	5.048	5.048	0.002645	0.002645	101	
Fluorene	19:38	15469527		1.2532	43.9	43.9	0.0315	0.0315		
D 13C6-Phenanthrene	25:03	2150043		0.5724	5.344	5.344	0.005061	0.005061	107	
Phenanthrene	25:03	114692065		1.1044	241.5	241.5	0.1128	0.1128		
\$ Anthracin-d10	25:16	161336		0.4257	0.5392	0.5392	0.001456	0.001456	108	
D 13C6-Anthracene	25:23	2027692		0.4523	6.377	6.377	0.006405	0.006405	128	
Anthracene	25:23	11714282		1.3586	21.3	21.3	0.1110	0.1110		
D 13C6-Fluoranthrene	33:46	3867899		1.1994	4.588	4.588	0.0221	0.0221	91.76	
Fluoranthene	33:46	10737076		1.1513	12.1	12.1	0.1180	0.1180		
* Pyrene-d10	35:18	1757234		7.9E+04	2.500	2.500				
D 13C3-Pyrene	35:26	3991741		1.3512	4.203	4.203	0.0735	0.0735	84.06	
Pyrene	35:26	12755342		1.0652	15.0	15.0	0.1264	0.1264		
\$ 13C6-Benzo(c)fluorene	39:09	1499150		0.5136	4.153	4.153	0.0241	0.0241	125	
D 13C6-Benzo(a)anthracene	45:57	2715032		1.5189	3.955	3.955	0.0110	0.0110	79.10	
Benzo[a]anthracene	45:58	2863086		0.9739	5.414	5.414	2.576	2.576		
D 13C6-Chrysene	46:13	3136610		1.6287	4.261	4.261	0.0103	0.0103	85.23	
Chrysene	46:09	13891925		0.9815	22.6	22.6	2.402	2.402		
D 13C6-Benzo(b)fluoranthene	54:33	728276		1.4621	1.102	1.102	0.006879	0.006879	22.04	
Benzo[b]fluoranthene	54:33	1048918		1.1249	6.402	6.402	0.1375	0.1375		
\$ 13C12-Benzo(j)fluoranthene	54:35	276981		1.3558	0.4520	0.4520	0.007104	0.007104	13.56	
D 13C6-Benzo(k)fluoranthene	54:40	303669		1.7507	0.3838	0.3838	0.005745	0.005745	7.68	
Benzo[k]fluoranthene	54:40						0.3042	0.3042		
* Benzo(e)pyrene-d12	55:27	1129822		5.7E+04	2.500	2.500				
D 13C4-Benzo(e)pyrene	55:31	599958		1.6368	0.8110	0.8110	0.0226	0.0226	16.22	
Benzo[e]pyrene	55:31	1603700		1.0013	13.3	13.3	0.1692	0.1692		



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:43	1784484		1.5508	2.546	2.546	0.0238	0.0238	50.92	
Benzo[a]pyrene	55:43	1569107		1.1130	3.950	3.950	0.0686	0.0686		
D Perylene-d12	55:51	1751825		1.1917	3.253	3.253	0.007456	0.007456	65.06	
Perylene	55:50	3015257		1.4307	6.015	6.015	0.0450	0.0450		
D 13C6-Indeno(1,2,3-cd)pyrene	57:58	1266311		1.0218	2.742	2.742	0.0197	0.0197	54.84	
Indeno[1,2,3-cd]pyrene	57:57						0.0454	0.0454		
D 13C6-Dibenz(a,h)anthracene	58:03	660940		1.0553	1.386	1.386	0.0161	0.0161	27.72	
Dibenz(a,h)anthracene	58:03	751841		1.1314	5.027	5.027	0.0322	0.0322		
D 13C12-Benzo(ghi)perylene	58:26	1430324		1.2749	2.483	2.483	0.0501	0.0501	49.65	
Benzo[g,h,i]perylene	58:27	984506		1.2838	2.681	2.681	0.0280	0.0280		

## QC Flag Legend

Processing Flags

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\140-36940-a-5-d-20x.d  
Lims ID: 140-36940-A-5-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jul-2024 18:10:00 ALS Bottle#: 0 Worklist Smp#: 14  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Sample Info:  
Misc. Info.: 140-0033697-014  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 29-Jul-2024 08:16:53 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1627

First Level Reviewer: TT61

Date: 29-Jul-2024 08:19:36

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:26	11:26	-1	0.663	2831990	965537	366	915	2638		
Naphthalene											
128.0626	11:26	11:29	-2	0.999	435251616	86840537	29508	73770	2943		
13C6-2-Methylnaphthalene											
148.0984	13:48	13:47	-1	0.801	1618014	752467	504	1260	1493		
2-Methylnaphthalene											
142.0783	13:48	13:46	-1	1.000	92736311	44993600	8245	20612	5457		
13C6-Acenaphthylene											
158.0828	16:40	16:38	-1	0.966	2378516	776656	266	665	2920		
Acenaphthylene											
152.0626	16:40	16:40	-1	1.000	2758640	887038	8332	20830	106		
Acenaphthene-d10											
164.1404	17:14	17:15	-1		782804	276176	103	257	2681		
13C6-Acenaphthene											
160.0984	17:21	17:20	-1	1.007	1434243	462089	229	572	2018		
Acenaphthene											
154.0783	17:22	17:20	-1	1.001	1637258	473651	8413	21032	56		
13C6-Fluorene											
172.0984	19:38	19:36	-1	1.139	1406384	405505	104	260	3899		
Fluorene											
166.0783	19:38	19:38	-1	1.000	15469527	4035097	1282	3205	3148		
13C6-Phenanthrene											
184.0984	25:03	25:00	3	0.710	2150043	376604	144	360	2615		
Phenanthrene											
178.0783	25:03	24:59	3	1.000	114692065	21222754	3755	9387	5652		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:16	25:12	3	0.716	161336	32019	31	77	1033		
13C6-Anthracene											
184.0984	25:23	25:19	3	0.719	2027692	311113	144	360	2161		
Anthracene											
178.0783	25:23	25:19	3	1.000	11714282	1499602	3755	9387	399		
13C6-Fluoranthrene											
208.0984	33:46	33:43	2	0.957	3867899	697871	1320	3300	529		
Fluoranthene											
202.0783	33:46	33:42	2	1.000	10737076	1906292	7587	18967	251		
Pyrene-d10											
212.1404	35:18	35:16	2		1757234	310653	165	412	1883		
13C3-Pyrene											
205.0883	35:26	35:24	2	1.004	3991741	704084	4934	12335	143		
Pyrene											
202.0783	35:26	35:24	1	1.000	12755342	2146090	7587	18967	283		
13C6-Benzo(c)fluorene											
222.1134	39:09	39:06	2	0.706	1499150	252159	614	1535	411		
13C6-Benzo(a)anthracene											
234.1140	45:57	45:54	1	1.302	2715032	430714	895	2237	481		
Benzo[a]anthracene											
228.0939	45:58	45:55	1	1.000	2863086	564202	86457	216142	7		
13C6-Chrysene											
234.1140	46:13	46:11	1	1.309	3136610	458405	895	2237	512		
Chrysene											
228.0939	46:09	46:12	-4	0.999	13891925	1914798	86457	216142	22		
13C6-Benzo(b)fluoranthene											
258.1140	54:33	54:31	0	0.984	728276	149820	539	1347	278		
Benzo[b]fluoranthene											
252.0939	54:33	54:31	0	1.000	1048918	182799	1854	4635	99		
13C12-Benzo(j)fluoranthene											
264.1336	54:35	54:33	0	0.985	276981	66828	516	1290	130		
13C6-Benzo(k)fluoranthene											
258.1140	54:40	54:38	0	0.986	303669	67592	539	1347	125		
Benzo[k]fluoranthene											
252.0939	54:39						1854	4635			
Benzo(e)pyrene-d12											
264.1692	55:27	55:25	1		1129822	334842	476	1190	703		
13C4-Benzo(e)pyrene											
256.1073	55:31	55:28	1	1.001	599958	136829	1978	4945	69		
Benzo[e]pyrene											
252.0939	55:31	55:30	0	1.000	1603700	278357	1854	4635	150		
13C4-Benzo(a)pyrene											
256.1073	55:43	55:37	4	1.005	1784484	303524	1978	4945	153		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:43	55:38	4	1.000	1569107	324725	1854	4635	175		
Perylene-d12											
264.1692	55:51	55:47	2	1.007	1751825	360346	476	1190	757		
Perylene											
252.0939	55:50	55:52	-3	1.000	3015257	195931	1854	4635	106		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:58	57:55	1	1.046	1266311	294943	1079	2697	273		
Indeno[1,2,3-cd]pyrene											
276.0939	57:58						1206	3015			
13C6-Dibenz(a,h)anthracene											
284.1296	58:03	57:59	2	1.047	660940	158752	911	2277	174		
Dibenz(a,h)anthracene											
278.1096	58:03	58:00	2	1.000	751841	125648	462	1155	272		
13C12-Benzo(ghi)perylene											
288.1342	58:26	58:22	1	1.054	1430324	419972	3420	8550	123		
Benzo[g,h,i]perylene											
276.0939	58:27	58:24	1	1.000	984506	235810	1206	3015	196		

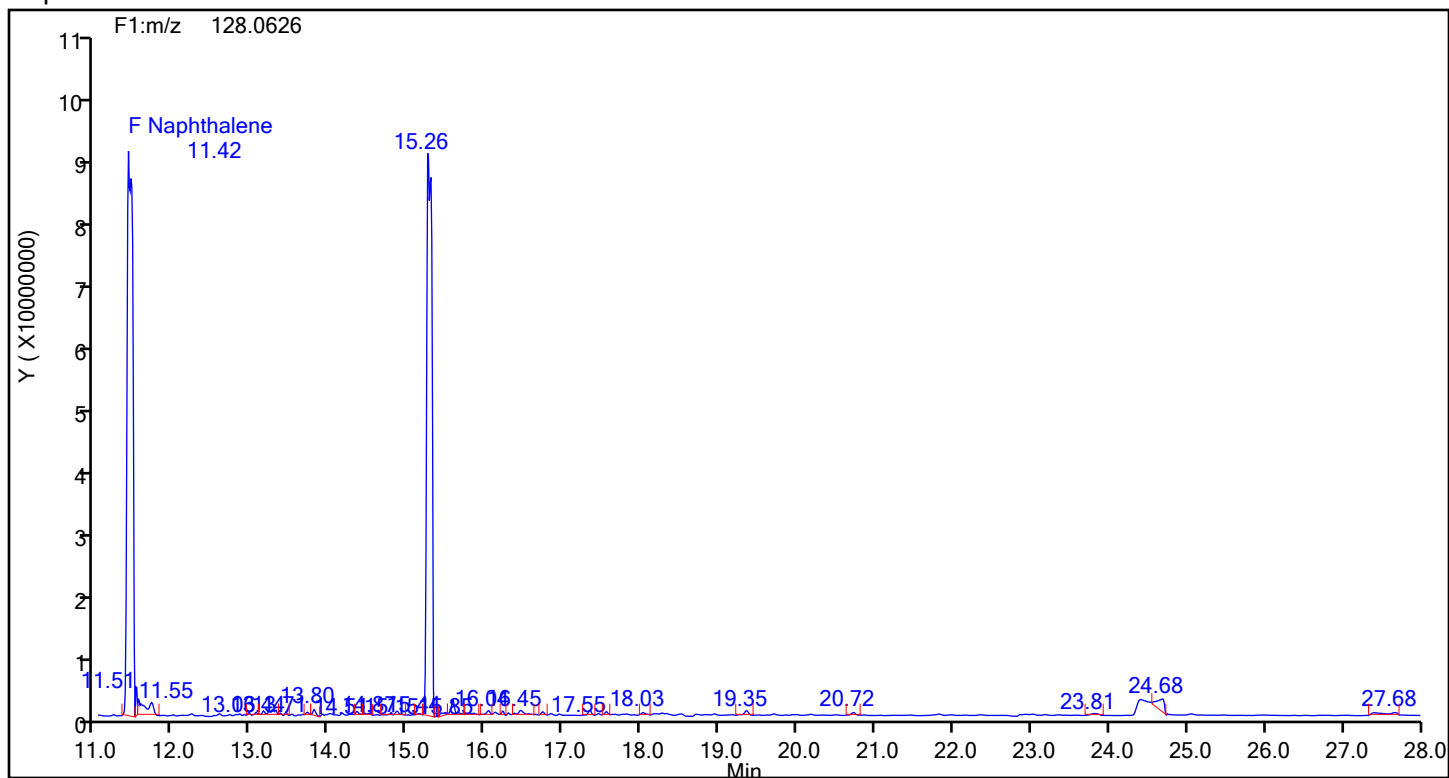
### QC Flag Legend

Processing Flags

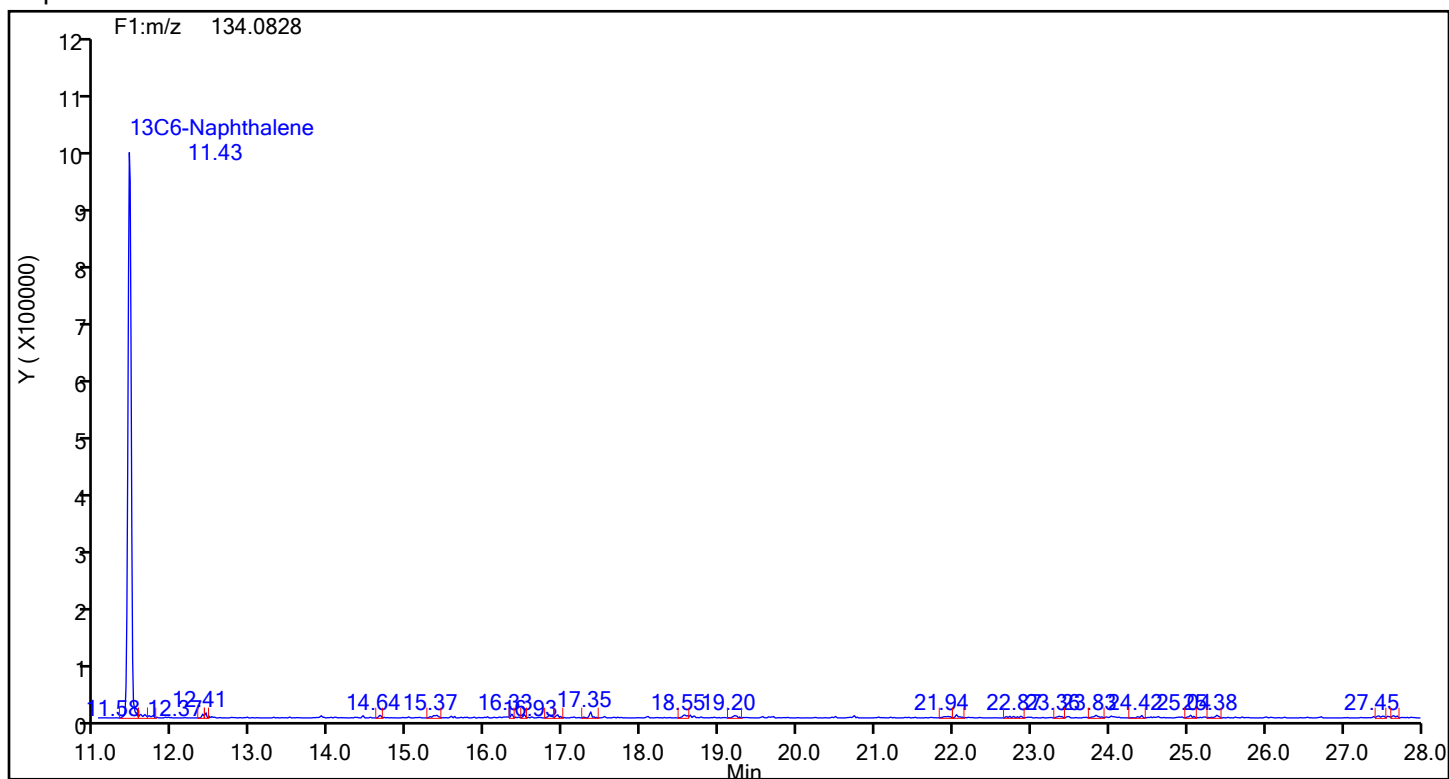
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\140-36940-a-5-d-20x.d  
Injection Date: 28-Jul-2024 18:10:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 89271 Sample Line#: 14  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



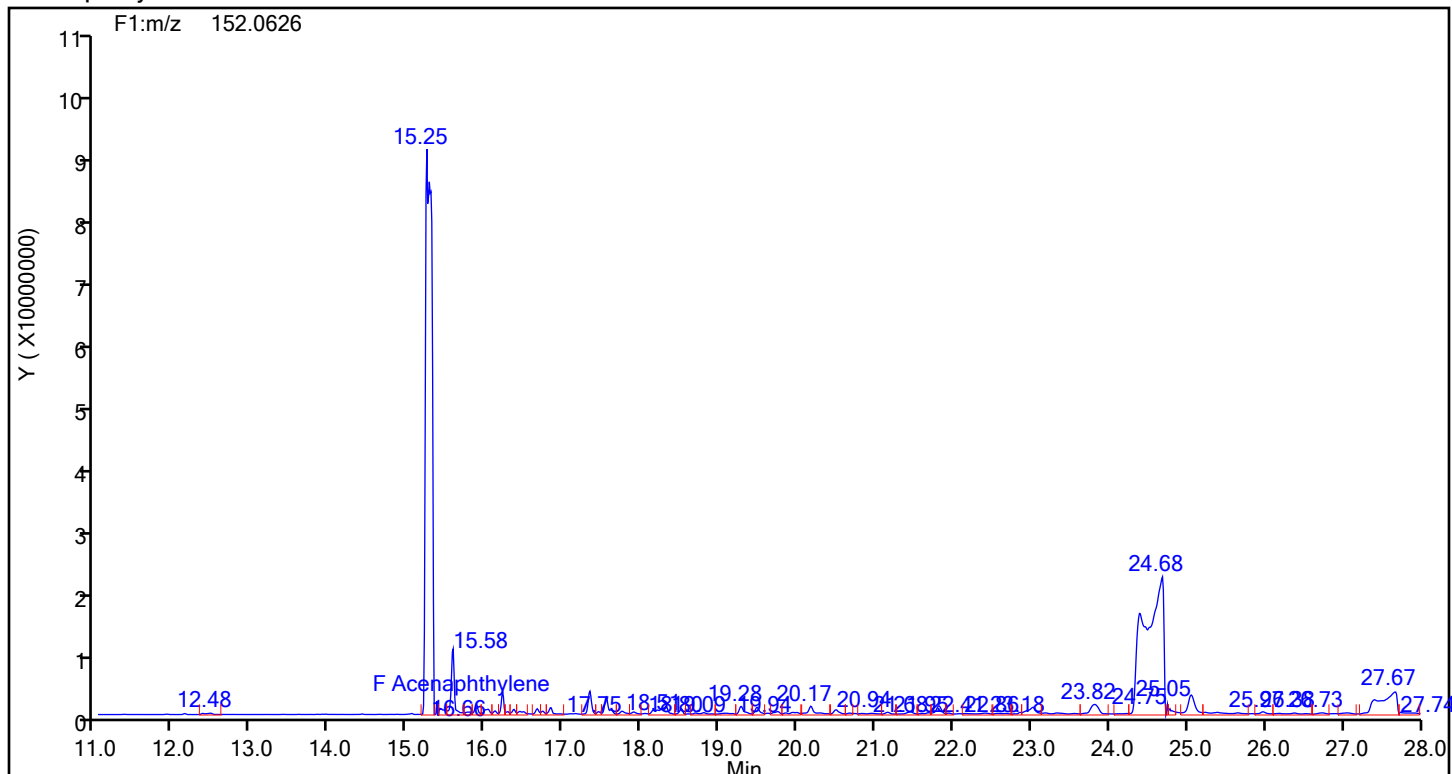
## Naphthalene Standards



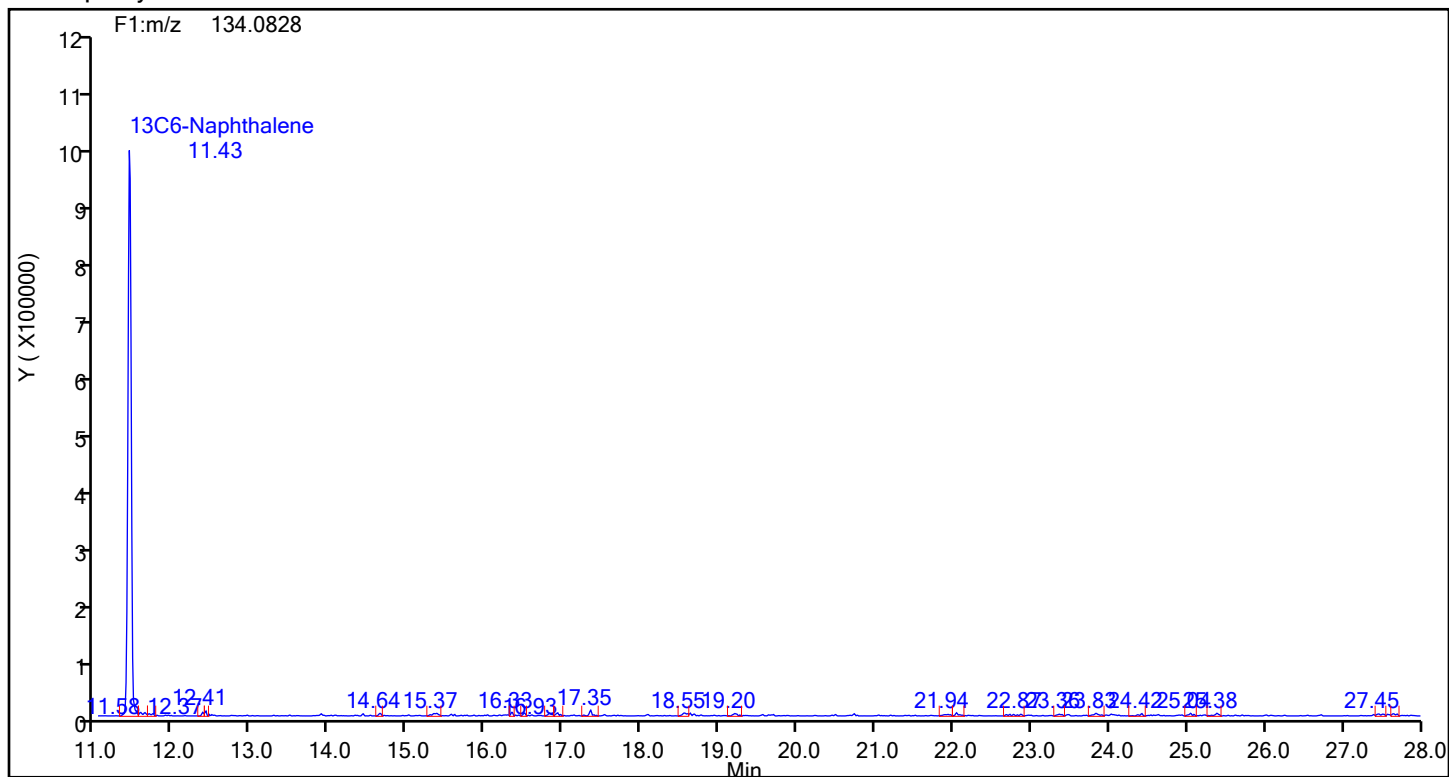
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\140-36940-a-5-d-20x.d  
Injection Date: 28-Jul-2024 18:10:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 89271 Sample Line#: 14  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene

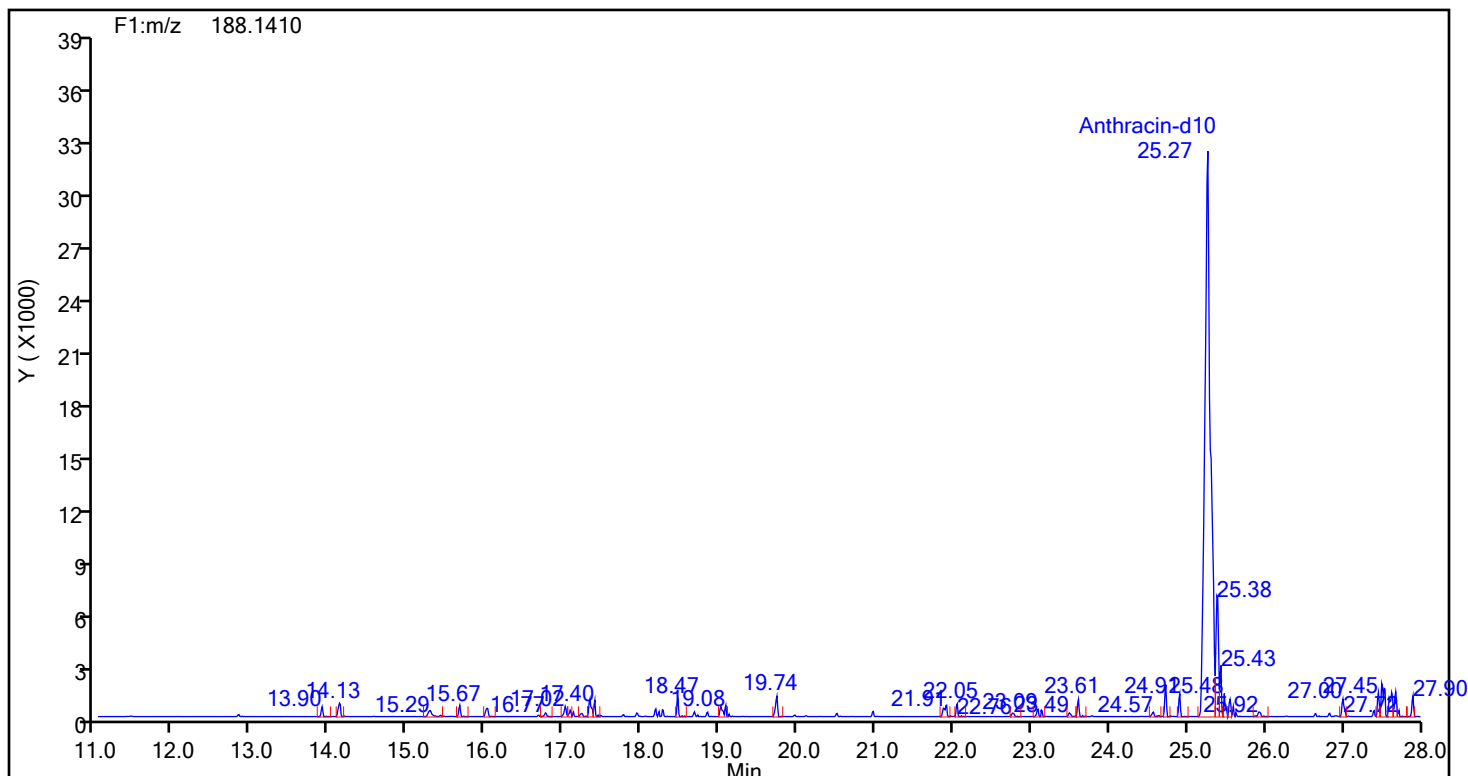


## Acenaphthylene Standards

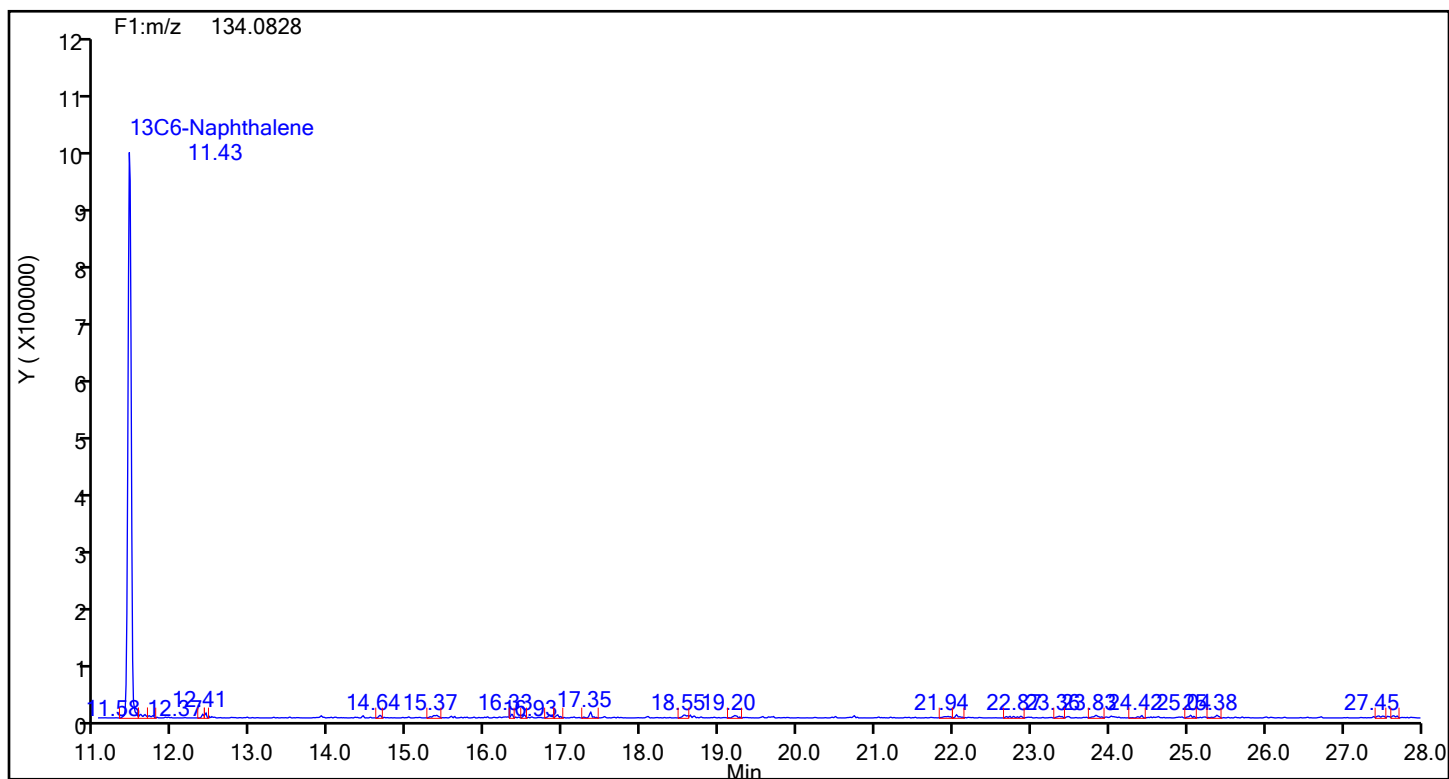


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\140-36940-a-5-d-20x.d  
Injection Date: 28-Jul-2024 18:10:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 89271 Sample Line#: 14  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10



## Anthracin-d10 Standards



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\140-36940-a-5-d-20x.d  
Lims ID: 140-36940-A-5-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jul-2024 18:10:00 ALS Bottle#: 0 Worklist Smp#: 14  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Sample Info:  
Misc. Info.: 140-0033697-014  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 29-Jul-2024 08:16:53 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1627

First Level Reviewer: TT6I

Date: 29-Jul-2024 08:19:36

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.5392	107.83
13C6-Benzo(c)fluorene	66.7	4.15	124.58
13C12-Benzo(j)fluoranthene	66.7	0.4520	13.56



FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN 6-COMBINED</u>	Lab Sample ID: <u>140-36940-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-6-d_20240719030234</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/17/2024 16:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 03:06</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88945</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	25800	B	1500	1500	5.12
91-57-6	2-Methylnaphthalene	1390	J B	1500	1500	0.929
208-96-8	Acenaphthylene	42.7	J B	60.0	60.0	2.67
83-32-9	Acenaphthene	82.2	J B	600	600	3.02
86-73-7	Fluorene	180	J B	600	600	1.33
85-01-8	Phenanthrene	1460	B	120	120	1.37
120-12-7	Anthracene	60.0	J	600	600	1.22
206-44-0	Fluoranthene	103	J B	120	120	1.10
129-00-0	Pyrene	92.3	J B	120	120	1.17
56-55-3	Benzo[a]anthracene	62.3	J B	120	120	35.9
218-01-9	Chrysene	482	B	120	120	32.8
205-99-2	Benzo[b]fluoranthene	67.4	J B	600	600	0.729
207-08-9	Benzo[k]fluoranthene	32.5	J B	120	120	0.598
192-97-2	Benzo[e]pyrene	124	B	120	120	1.17
50-32-8	Benzo[a]pyrene	35.3	J	60.0	60.0	0.600
198-55-0	Perylene	29.3	J B	60.0	60.0	0.533
193-39-5	Indeno[1,2,3-cd]pyrene	50.0	J B	60.0	60.0	0.881
53-70-3	Dibenz(a,h)anthracene	51.8	J B	120	120	0.391
191-24-2	Benzo[g,h,i]perylene	83.6	J B	120	120	0.731

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>6-COMBINED</u>	Lab Sample ID: <u>140-36940-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-6-d_20240719030234</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/17/2024 16:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/19/2024 03:06</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88945</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	71		20-130
STL03357	13C6-2-Methylnaphthalene	74		20-130
189811-56-1	13C6-Acenaphthylene	105		20-130
189811-57-2	13C6-Acenaphthene	98		20-130
STL00616	13C6-Fluorene	110		20-130
1397194-60-3	13C6-Fluoranthrene	96		20-130
1397214-90-2	13C3-Pyrene	88		20-130
917378-11-1	13C6-Benzo (a) anthracene	68		20-130
1397177-72-8	13C6-Chrysene	73		20-130
STL03358	13C6-Benzo (b) fluoranthene	49		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	69		20-130
STL03382	13C4-Benzo (e) pyrene	27		20-130
STL03359	13C4-Benzo (a) pyrene	67		20-130
1520-96-3	Perylene-d12	64		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	51		20-130
STL03360	13C6-Dibenz (a,h) anthracene	54		20-130
350820-11-0	13C12-Benzo (ghi) perylene	42		20-130
189811-60-7	13C6-Anthracene	98		20-130
1189955-53-0	13C6-Phenanthrene	82		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Lims ID: 140-36940-A-6-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Sample Type: Client  
Inject. Date: 19-Jul-2024 03:06:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Sample Info:  
Misc. Info.: 140-0033572-008  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 20-Jul-2024 10:22:42 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 10:22:42

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:24	1539907		3.3746	3.545	3.545	0.003728	0.003728	70.89	
Naphthalene	11:24	342089677		1.2893	861.5	861.5	0.1706	0.1706		
D 13C6-2-Methylnaphthalene	13:47	761055		1.6031	3.688	3.688	0.0111	0.0111	73.75	
2-Methylnaphthalene	13:47	9031665		1.2786	46.4	46.4	0.0310	0.0310		
D 13C6-Acenaphthylene	16:38	1115652		1.6520	5.246	5.246	0.003329	0.003329	105	
Acenaphthylene	16:38	415343		2.3661	1.424	1.424	0.0889	0.0889		M
* Acenaphthene-d10	17:12	321847		3.5E+04	2.500	2.500				
D 13C6-Acenaphthene	17:19	616529		0.9792	4.891	4.891	0.003411	0.003411	97.82	
Acenaphthene	17:19	429100		1.2697	2.741	2.741	0.1005	0.1005		M
D 13C6-Fluorene	19:36	632578		0.8898	5.522	5.522	0.000751	0.000751	110	
Fluorene	19:36	949225		1.2532	5.987	5.987	0.0443	0.0443		
D 13C6-Phenanthrene	24:58	865516		0.5724	4.121	4.121	0.001995	0.001995	82.42	
Phenanthrene	24:58	9307828		1.1044	48.7	48.7	0.0456	0.0456		M
\$ Anthracin-d10	25:11	65719		0.4257	0.4207	0.4207	0.000186	0.000186	84.15	
D 13C6-Anthracene	25:18	815543		0.4523	4.914	4.914	0.002524	0.002524	98.27	
Anthracene	25:18	443033		1.3586	1.999	1.999	0.0408	0.0408		M
D 13C6-Fluoranthrene	33:40	2114819		1.1994	4.805	4.805	0.0281	0.0281	96.11	M
Fluoranthene	33:41	1679083		1.1513	3.448	3.448	0.0367	0.0367		
* Pyrene-d10	35:14	917313		7.9E+04	2.500	2.500				
D 13C3-Pyrene	35:21	2186439		1.3512	4.410	4.410	0.0524	0.0524	88.20	
Pyrene	35:21	1433343		1.0652	3.077	3.077	0.0391	0.0391		M
\$ 13C6-Benzo(c)fluorene	39:04	657522		0.5136	3.489	3.489	0.0252	0.0252	105	M
D 13C6-Benzo(a)anthracene	45:52	1660277		1.5189	3.395	3.395	0.0100	0.0100	67.90	
Benzo[a]anthracene	45:53	671789		0.9739	2.077	2.077	1.198	1.198		M
D 13C6-Chrysene	46:08	1924346		1.6287	3.670	3.670	0.009345	0.009345	73.39	
Chrysene	46:05	6072168		0.9815	16.1	16.1	1.095	1.095		M
D 13C6-Benzo(b)fluoranthene	54:31	1147905		1.4621	2.439	2.439	0.004705	0.004705	48.77	
Benzo[b]fluoranthene	54:31	580445		1.1249	2.248	2.248	0.0243	0.0243		
\$ 13C12-Benzo(j)fluoranthene	54:33	322743		1.3558	0.7393	0.7393	0.0109	0.0109	22.18	
D 13C6-Benzo(k)fluoranthene	54:39	1931985		1.7507	3.428	3.428	0.003930	0.003930	68.55	
Benzo[k]fluoranthene	54:38	472008		1.1271	1.084	1.084	0.0199	0.0199		M
* Benzo(e)pyrene-d12	55:24	804922		5.7E+04	2.500	2.500				
Benzo[e]pyrene	55:29	600341		1.0013	4.149	4.149	0.0391	0.0391		M
D 13C4-Benzo(e)pyrene	55:29	722515		1.6368	1.371	1.371	0.0192	0.0192	27.42	

## Processing Flags

## Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
 Lims ID: 140-36940-A-6-D  
 Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
 Sample Type: Client  
 Inject. Date: 19-Jul-2024 03:06:00 ALS Bottle#: 0 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 20.0000  
 Sample Info:  
 Misc. Info.: 140-0033572-008  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAAH ICAL  
 Last Update: 20-Jul-2024 10:22:42 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1689

First Level Reviewer: TT61

Date: 20-Jul-2024 10:22:42

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:24	11:25	-2	0.663	1539907	555646	226	565	2459		
Naphthalene											
128.0626	11:24	11:24	-2	1.000	342089677	86412249	9775	24437	8840		
13C6-2-Methylnaphthalene											
148.0984	13:47	13:46	-1	0.801	761055	338915	321	802	1056		
2-Methylnaphthalene											
142.0783	13:47	13:46	-1	1.000	9031665	4228298	1074	2685	3937		
13C6-Acenaphthylene											
158.0828	16:38	16:36	-1	0.966	1115652	374000	99	247	3778		
Acenaphthylene											
152.0626	16:38	16:38	-1	1.000	415343	147504	3619	9047	41		M
Acenaphthene-d10											
164.1404	17:12	17:13	0		321847	112267	41	102	2738		
13C6-Acenaphthene											
160.0984	17:19	17:18	-1	1.007	616529	215128	60	150	3585		
Acenaphthene											
154.0783	17:19	17:19	-1	1.000	429100	143102	2197	5492	65		M
13C6-Fluorene											
172.0984	19:36	19:34	-1	1.139	632578	168748	12	30	14062		
Fluorene											
166.0783	19:36	19:35	-1	1.000	949225	270008	749	1872	360		
13C6-Phenanthrene											
184.0984	24:58	24:56	1	0.709	865516	183996	29	72	6345		
Phenanthrene											
178.0783	24:58	24:58	1	1.000	9307828	1960853	741	1852	2646		M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:11	25:10	1	0.715	65719	16498	2	5	8249		
13C6-Anthracene											
184.0984	25:18	25:15	1	0.718	815543	167023	29	72	5759		
Anthracene											
178.0783	25:18	25:18	1	1.000	443033	79244	741	1852	107		M
13C6-Fluoranthrene											
208.0984	33:40	33:40	0	0.956	2114819	390572	850	2125	459		M
Fluoranthene											
202.0783	33:41	33:39	0	1.000	1679083	305528	1319	3297	232		
Pyrene-d10											
212.1404	35:14	35:13	1		917313	157629	73	182	2159		
13C3-Pyrene											
205.0883	35:21	35:19	0	1.004	2186439	396058	1786	4465	222		
Pyrene											
202.0783	35:21	35:21	0	1.000	1433343	250339	1319	3297	190		M
13C6-Benzo(c)fluorene											
222.1134	39:04	39:04	0	0.705	657522	118282	327	817	362		M
13C6-Benzo(a)anthracene											
234.1140	45:52	45:49	0	1.302	1660277	243655	546	1365	446		
Benzo[a]anthracene											
228.0939	45:53	45:53	1	1.000	671789	97783	22742	56855	4		M
13C6-Chrysene											
234.1140	46:08	46:08	1	1.310	1924346	264549	546	1365	485		
Chrysene											
228.0939	46:05	46:05	-3	0.999	6072168	899660	22742	56855	40		M
13C6-Benzo(b)fluoranthene											
258.1140	54:31	54:29	1	0.984	1147905	327402	247	617	1326		
Benzo[b]fluoranthene											
252.0939	54:31	54:30	0	1.000	580445	145336	716	1790	203		
13C12-Benzo(j)fluoranthene											
264.1336	54:33	54:32	1	0.984	322743	77390	531	1327	146		
13C6-Benzo(k)fluoranthene											
258.1140	54:39	54:37	1	0.986	1931985	398622	247	617	1614		
Benzo[k]fluoranthene											
252.0939	54:38	54:38	0	1.000	472008	92566	716	1790	129		M
Benzo(e)pyrene-d12											
264.1692	55:24	55:23	1		804922	224215	462	1155	485		
Benzo[e]pyrene											
252.0939	55:29	55:29	1	1.000	600341	150021	716	1790	210		M
13C4-Benzo(e)pyrene											
256.1073	55:29	55:27	1	1.002	722515	228418	1128	2820	202		
13C4-Benzo(a)pyrene											
256.1073	55:38	55:35	2	1.004	1669596	402312	1128	2820	357		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:38	55:36	1	1.000	437585	79978	716	1790	112		
Perylene-d12											
264.1692	55:49	55:47	2	1.008	1228947	352350	462	1155	763		
Perylene											
252.0939	55:54	55:54	2	1.001	343860	61026	716	1790	85		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:57	57:57	1	1.046	833428	219649	764	1910	287		M
Indeno[1,2,3-cd]pyrene											
276.0939	57:57	57:57	1	1.000	312565	65839	581	1452	113		Ma
13C6-Dibenz(a,h)anthracene											
284.1296	58:02	58:00	2	1.047	909907	214271	499	1247	429		
Dibenz(a,h)anthracene											
278.1096	58:02	58:02	2	1.000	355714	63033	253	632	249		M
13C12-Benzo(ghi)perylene											
288.1342	58:25	58:24	2	1.054	870145	232233	1132	2830	205		
Benzo[g,h,i]perylene											
276.0939	58:25	58:25	1	1.000	622426	107872	581	1452	186		M

### QC Flag Legend

Processing Flags

Review Flags

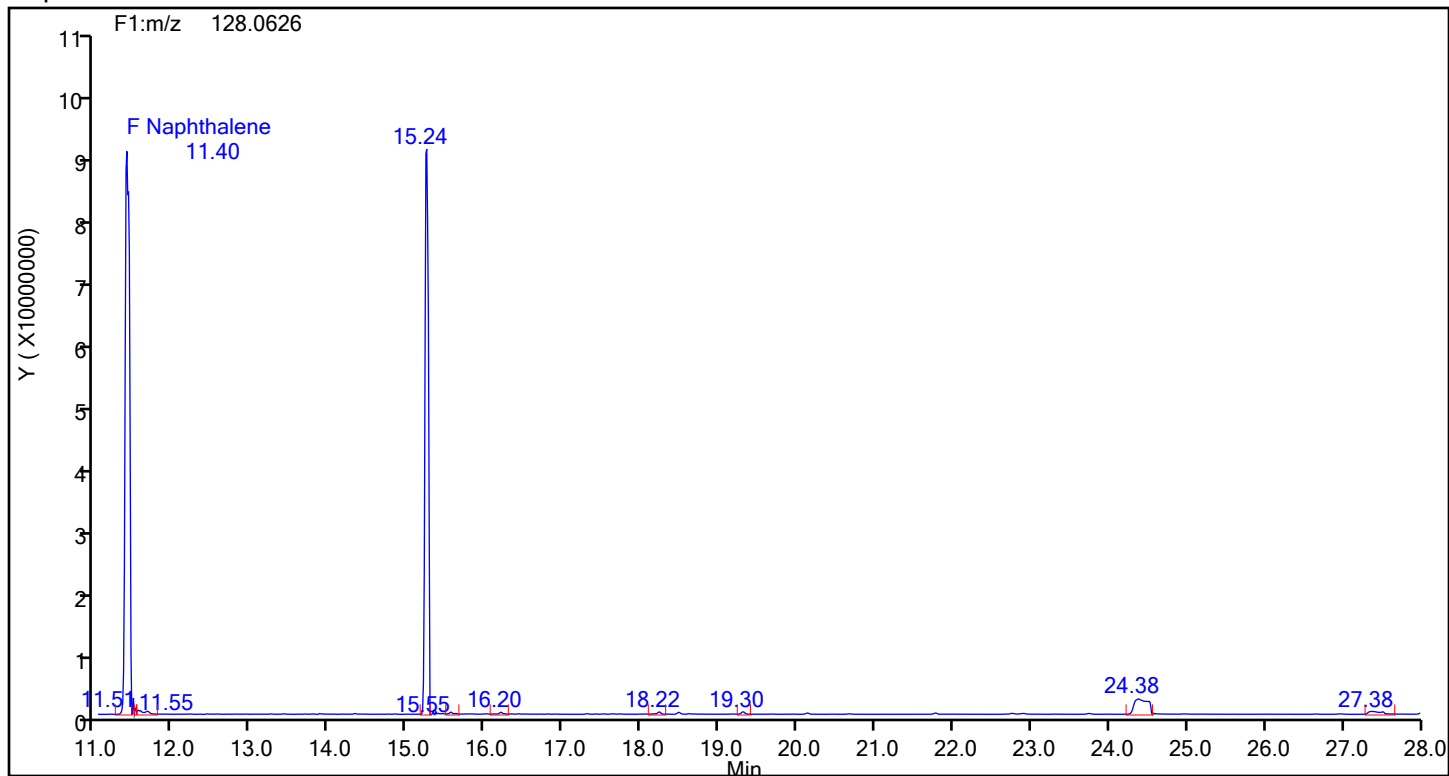
M - Manually Integrated

a - User Assigned ID

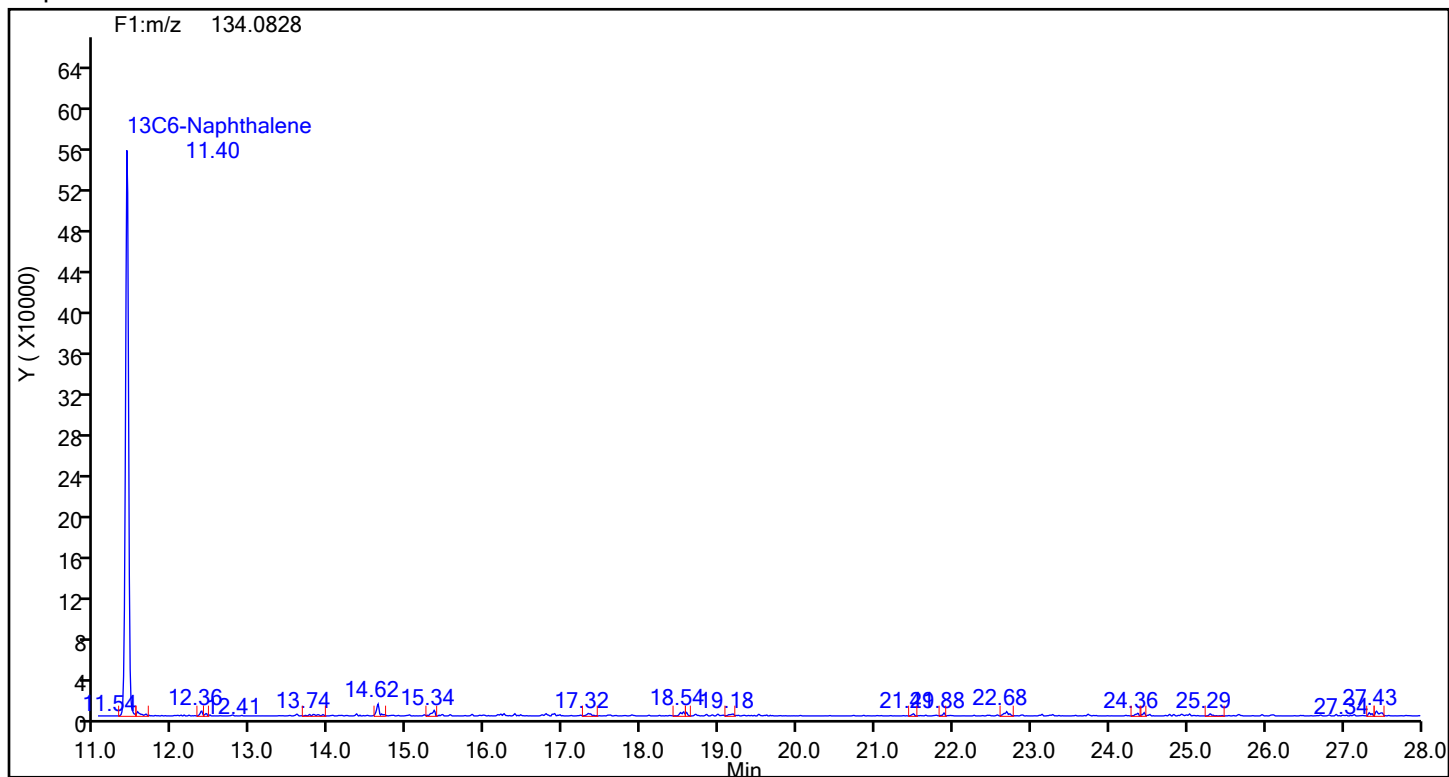
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards

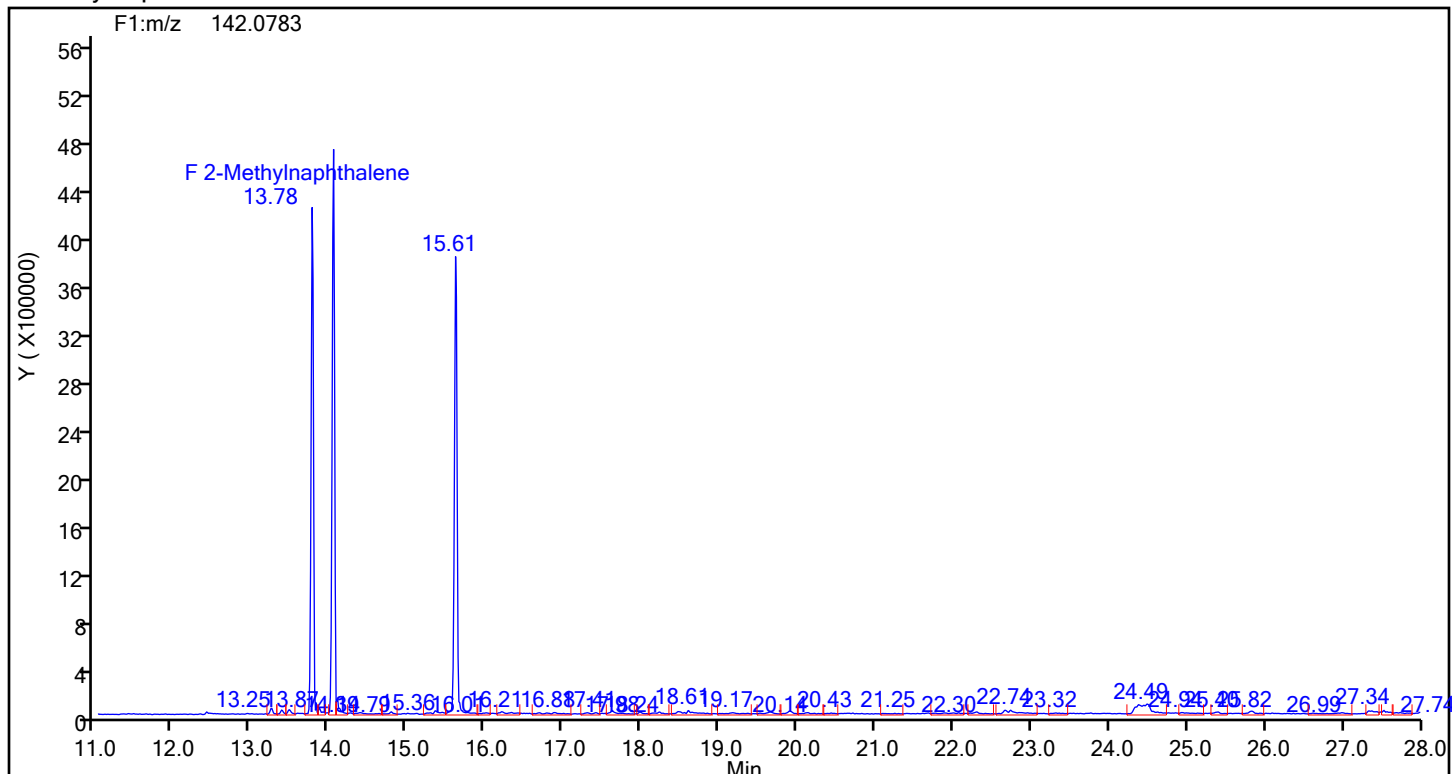




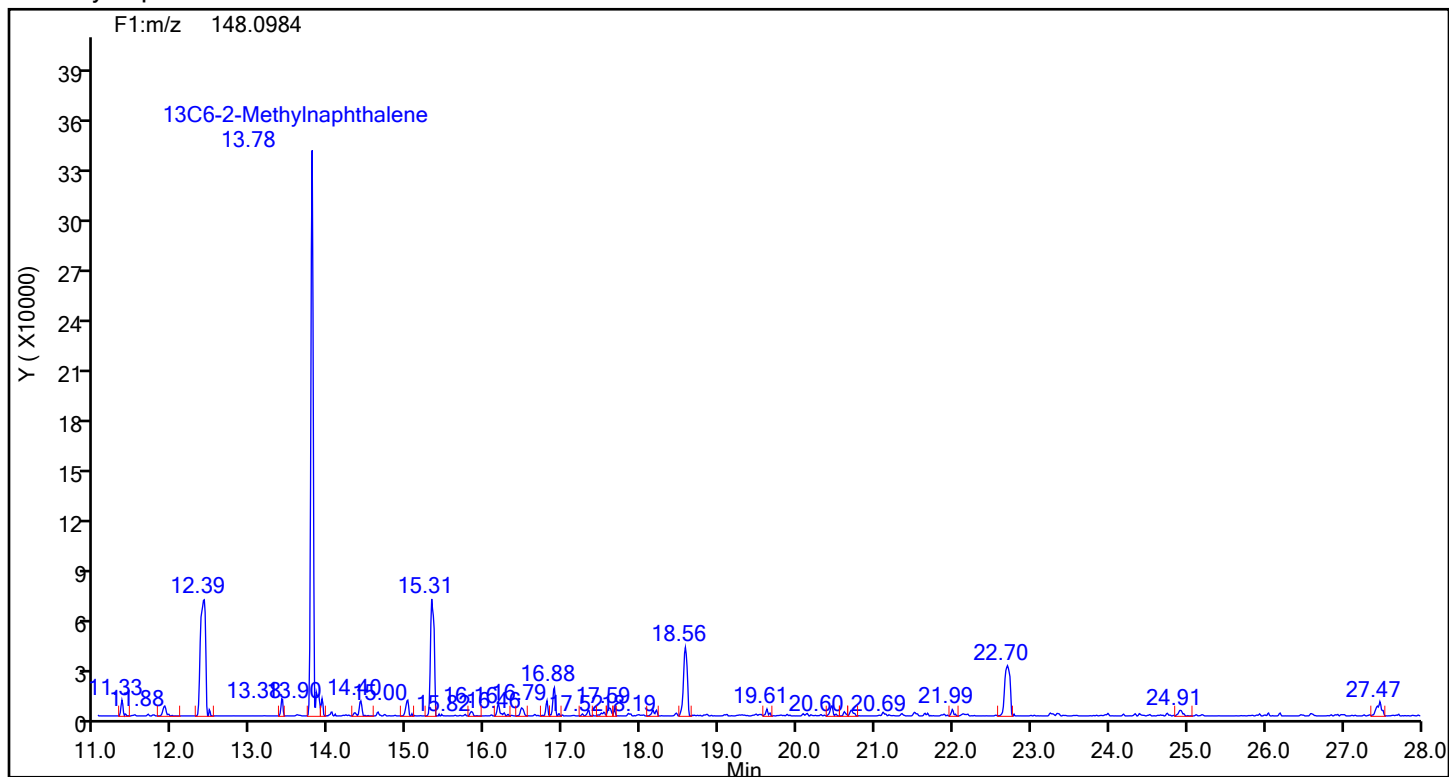
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



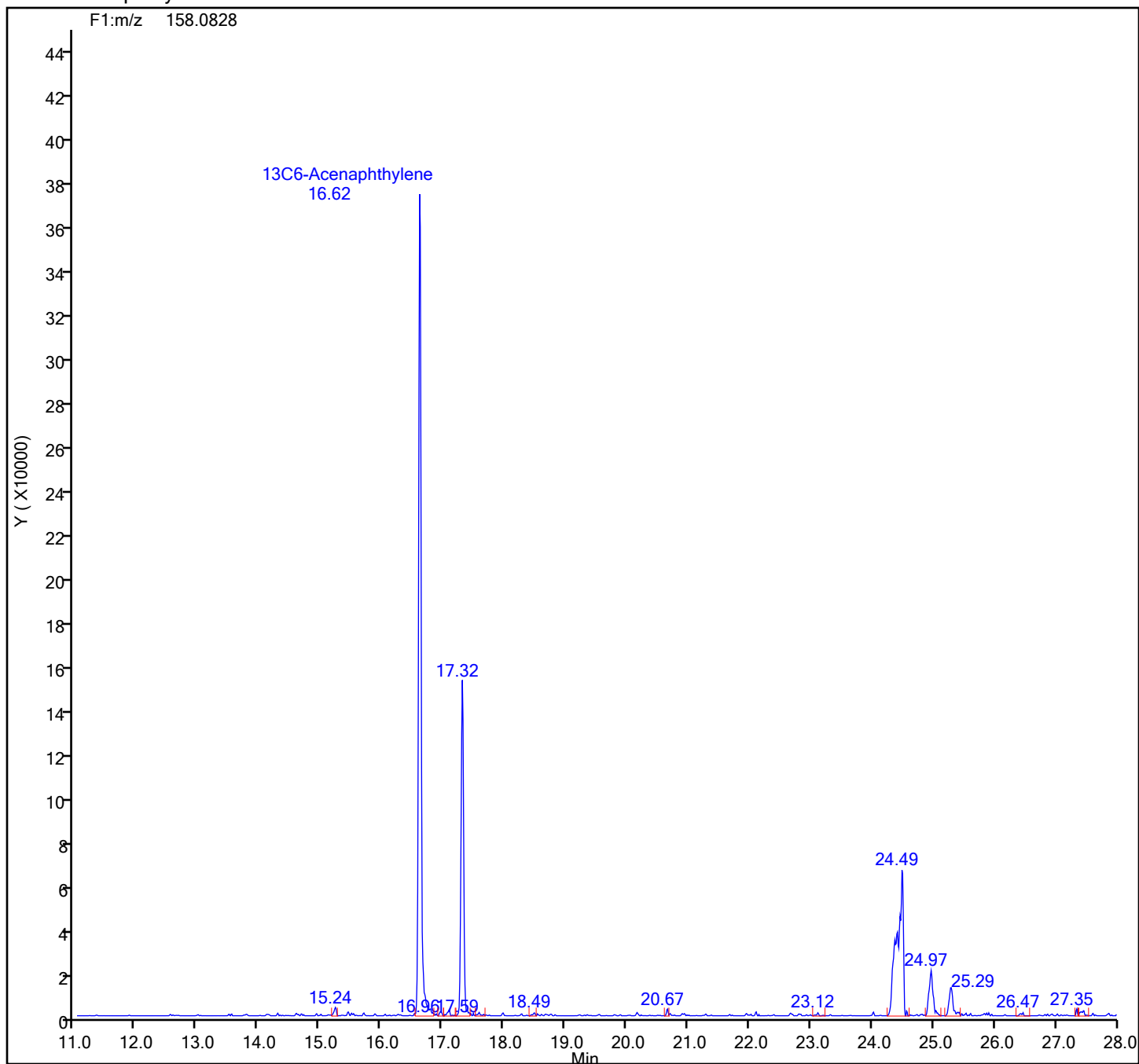
## 2-Methylnaphthalene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

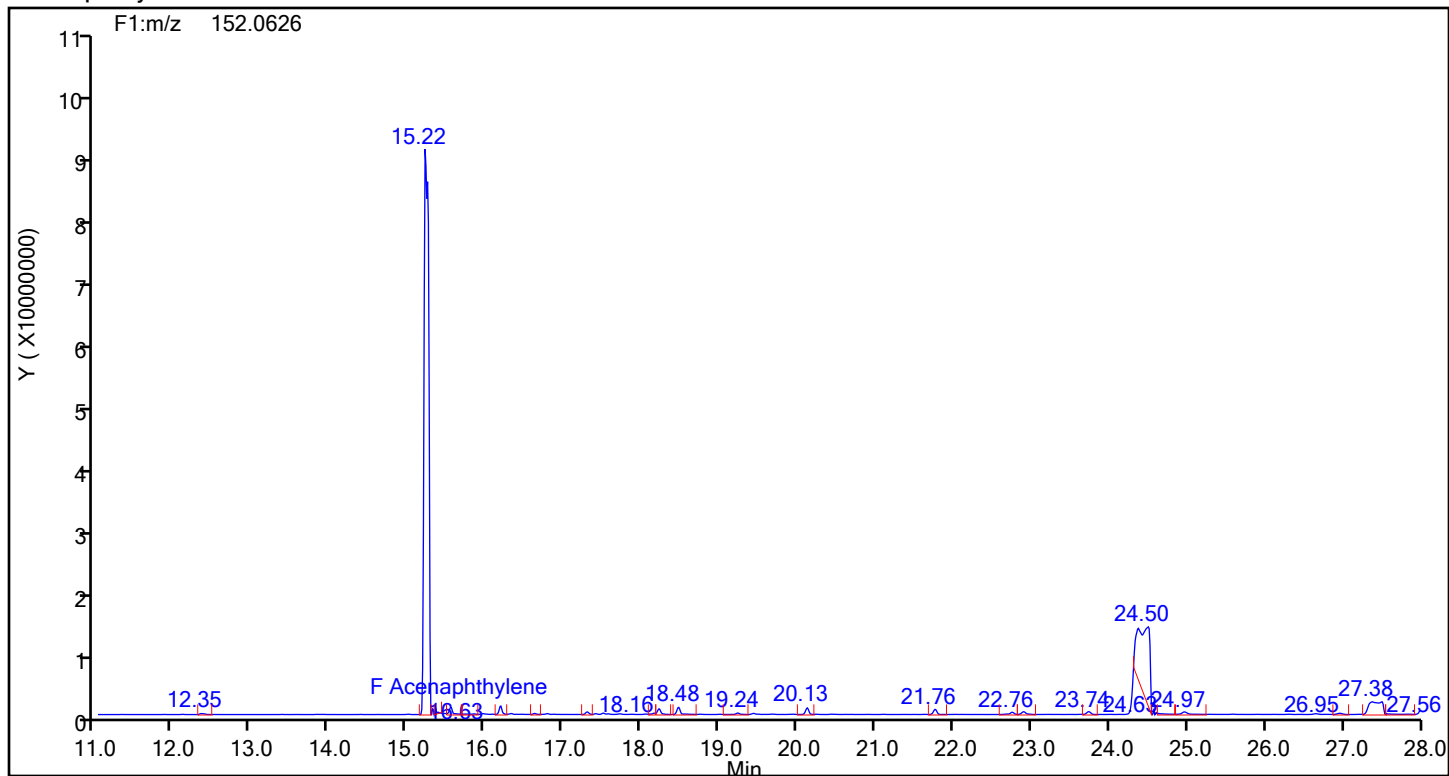
## 13C6-Acenaphthylene Standards



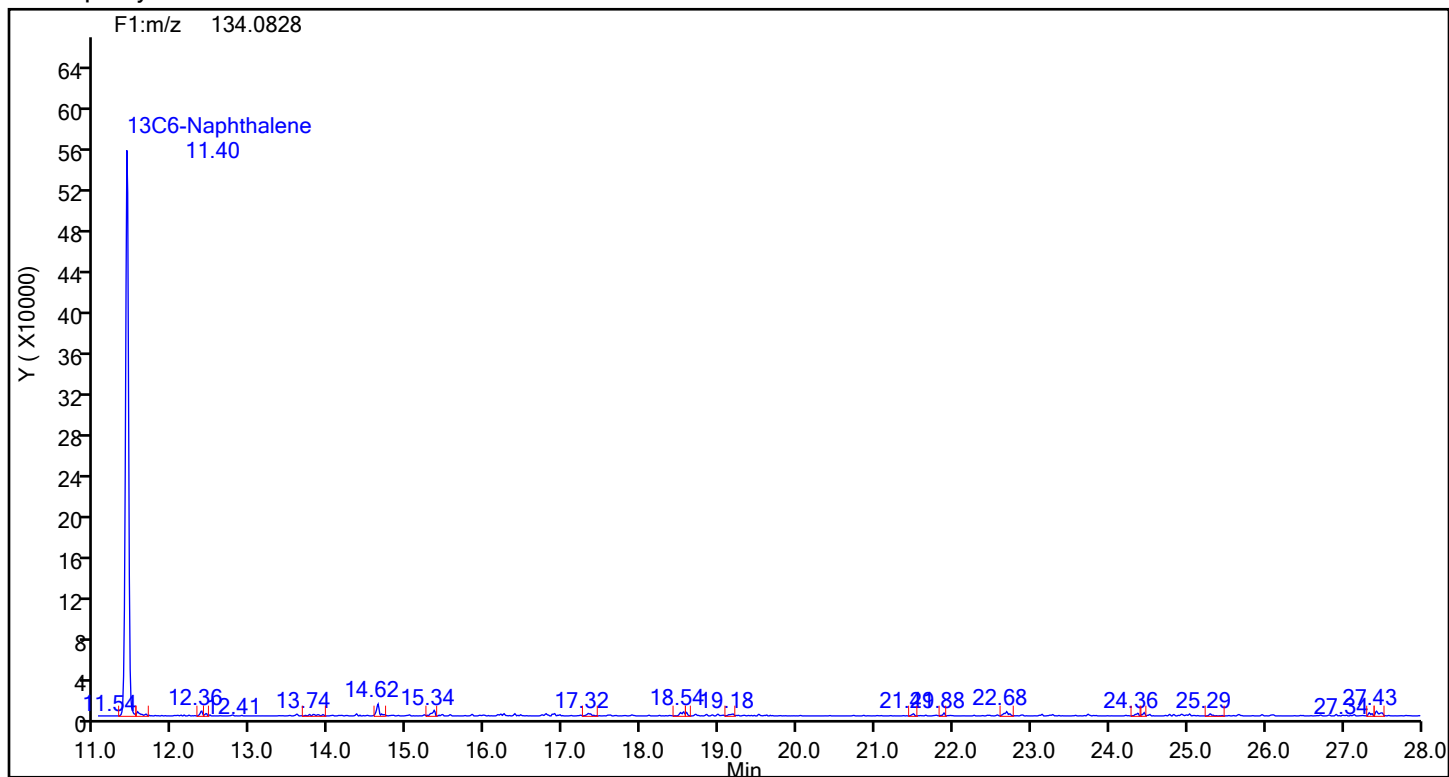
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



## Acenaphthylene Standards



## Eurofins Knoxville

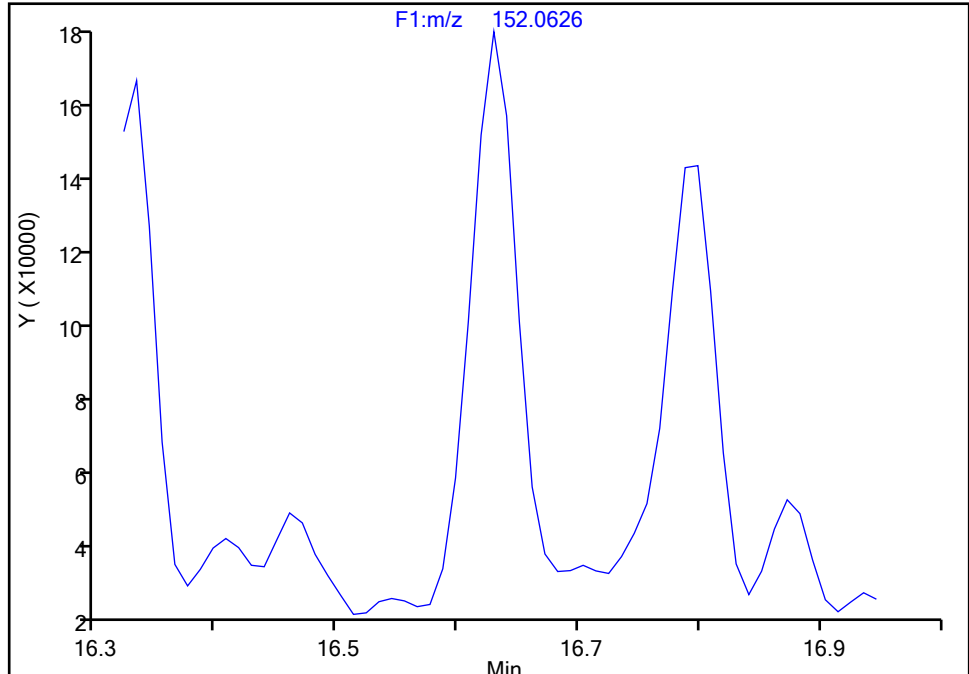
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**Acenaphthylene, CAS: 208-96-8**

Signal: 1

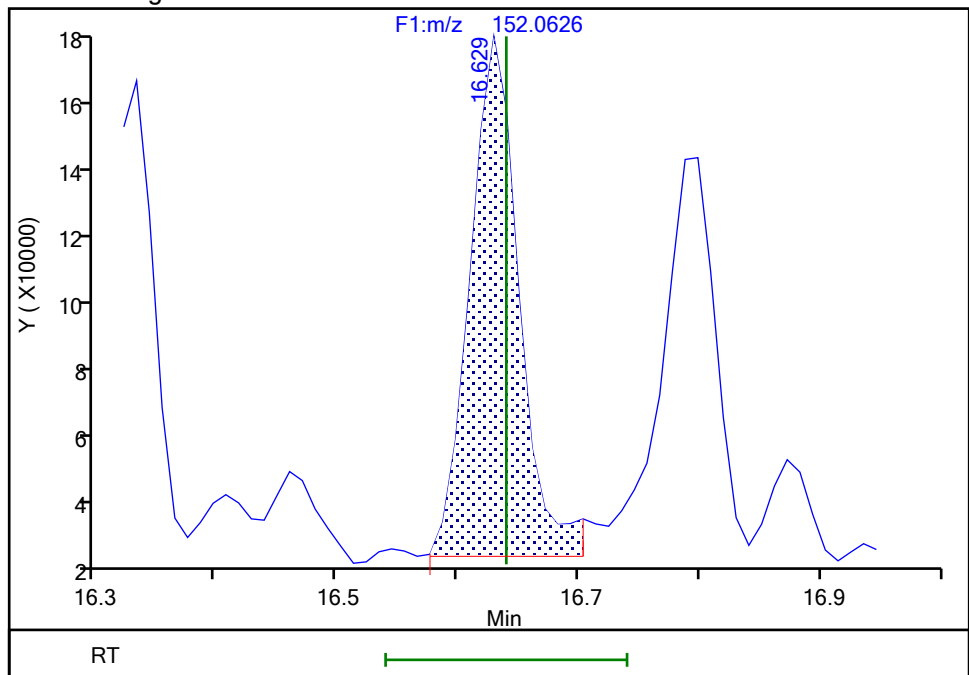
Not Detected  
Expected RT: 16.64

## Processing Integration Results



## Manual Integration Results

RT: 16.63  
Area: 415343  
Amount: 1.423587  
Amount Units: pg/ul



Reviewer: TT6I, 20-Jul-2024 10:21:57 -04:00:00 (UTC)

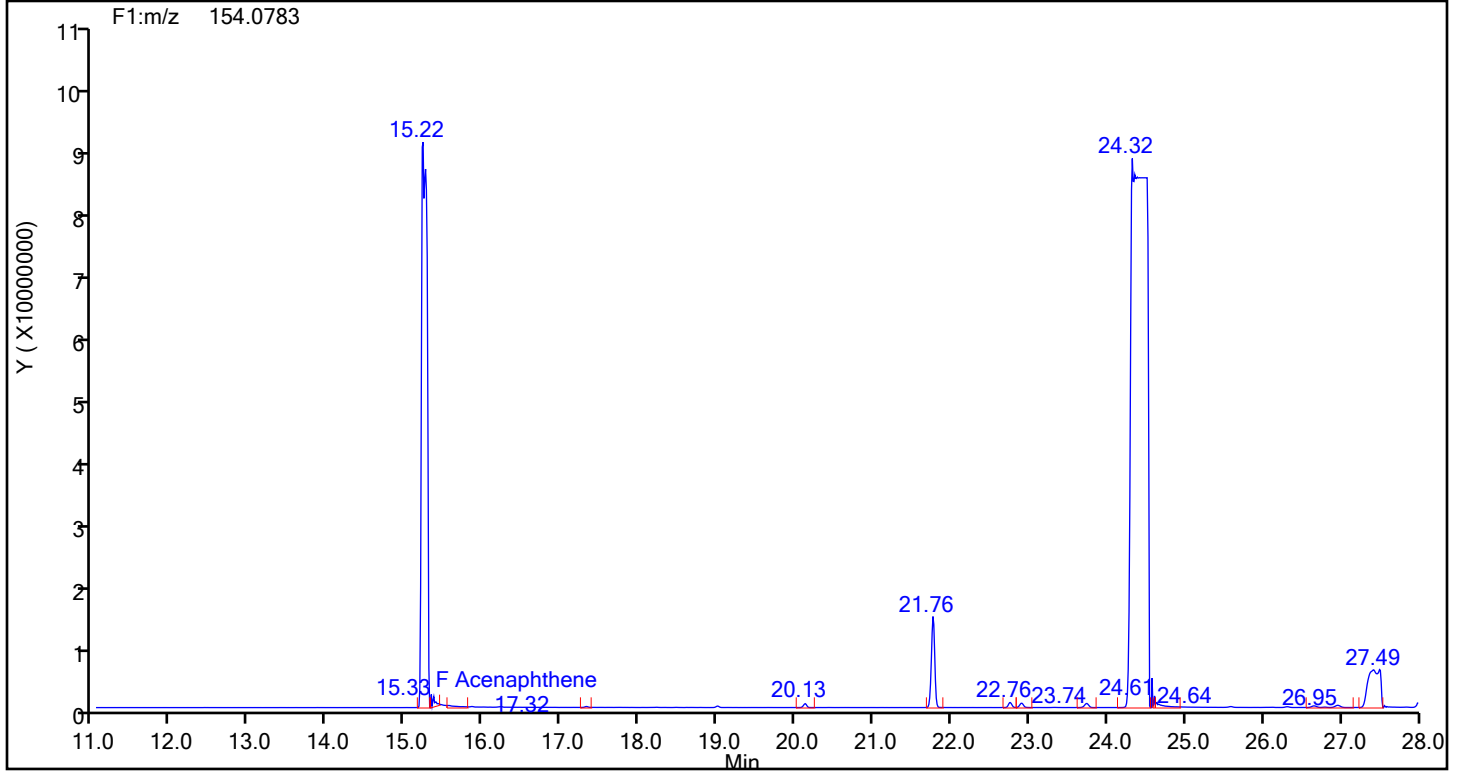
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

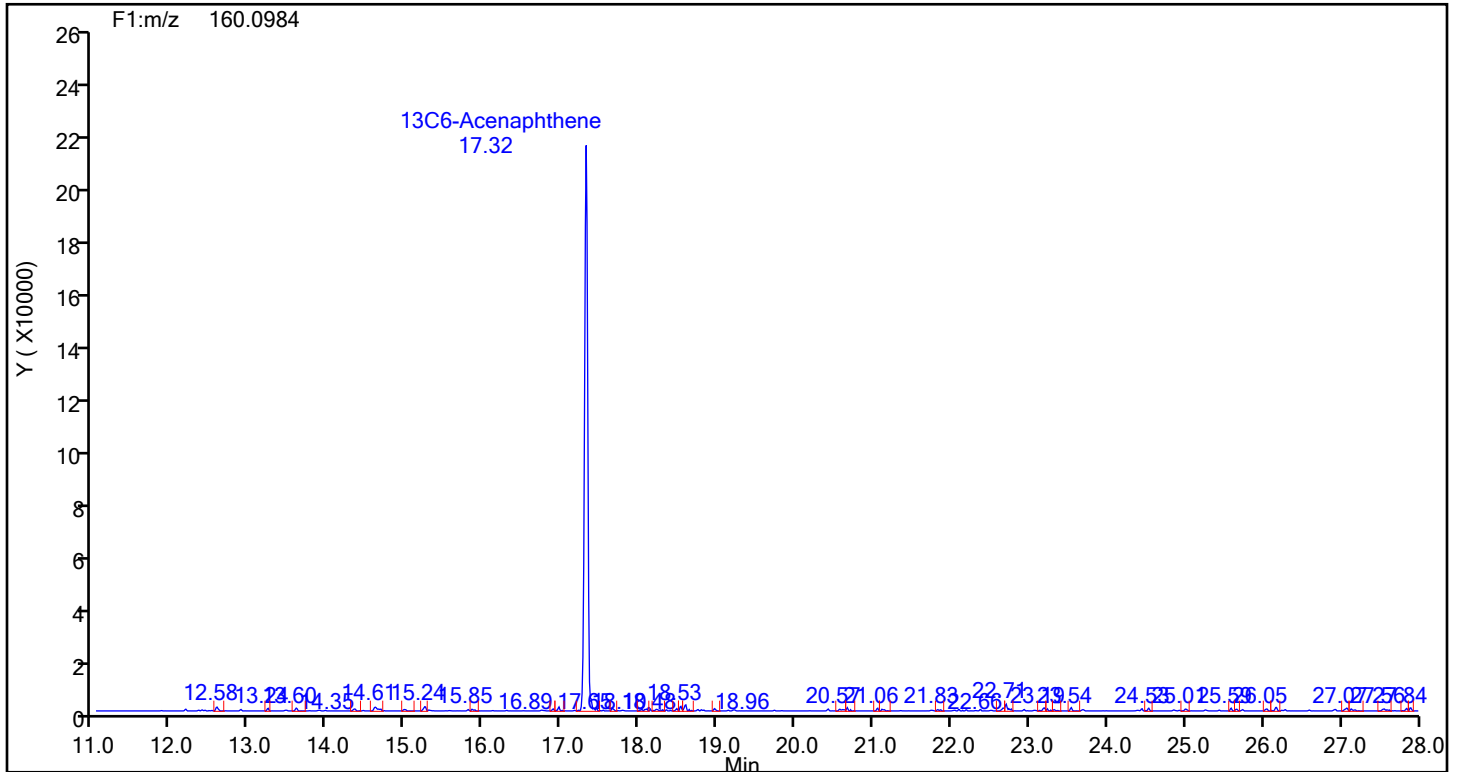
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



## Acenaphthene Standards



Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d_20240719030234.d				
Injection Date:	19-Jul-2024 03:06:00	Instrument ID:	D3PAH		
Lims ID:	140-36940-A-6-D	Lab Sample ID:	140-36940-6		
Client ID:	M23 - EPN 4-1\IN-701-RUN 6-COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	20.0000		
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL		
Column:	Restek-5Sil MS 25um ( 0.25 mm)	Detector	F1(6.03 :27.99 )		

Signal: 1

Not Detected  
Expected RT: 17.33

Chromatogram showing a single sharp peak at 17.3 minutes. The y-axis is labeled 'Y (X10000)' and ranges from 2 to 18. The x-axis is labeled 'Min' and ranges from 16.9 to 17.7. The peak is labeled 'F1:m/z 154.0783'.

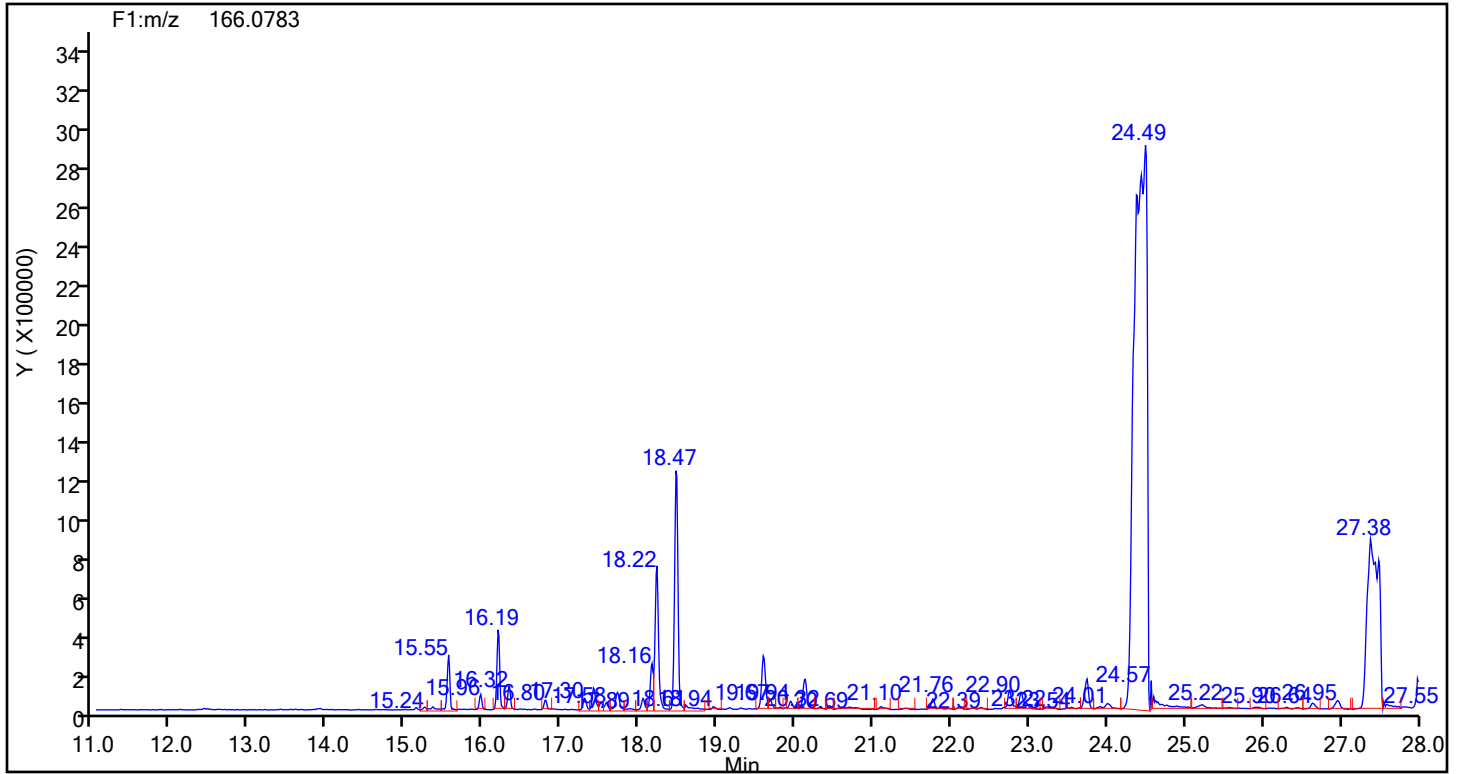
RT: 17.32  
Area: 429100  
Amount: 2.740831  
Amount Units: pg/ul

### Audit Reason: Incomplete Integration

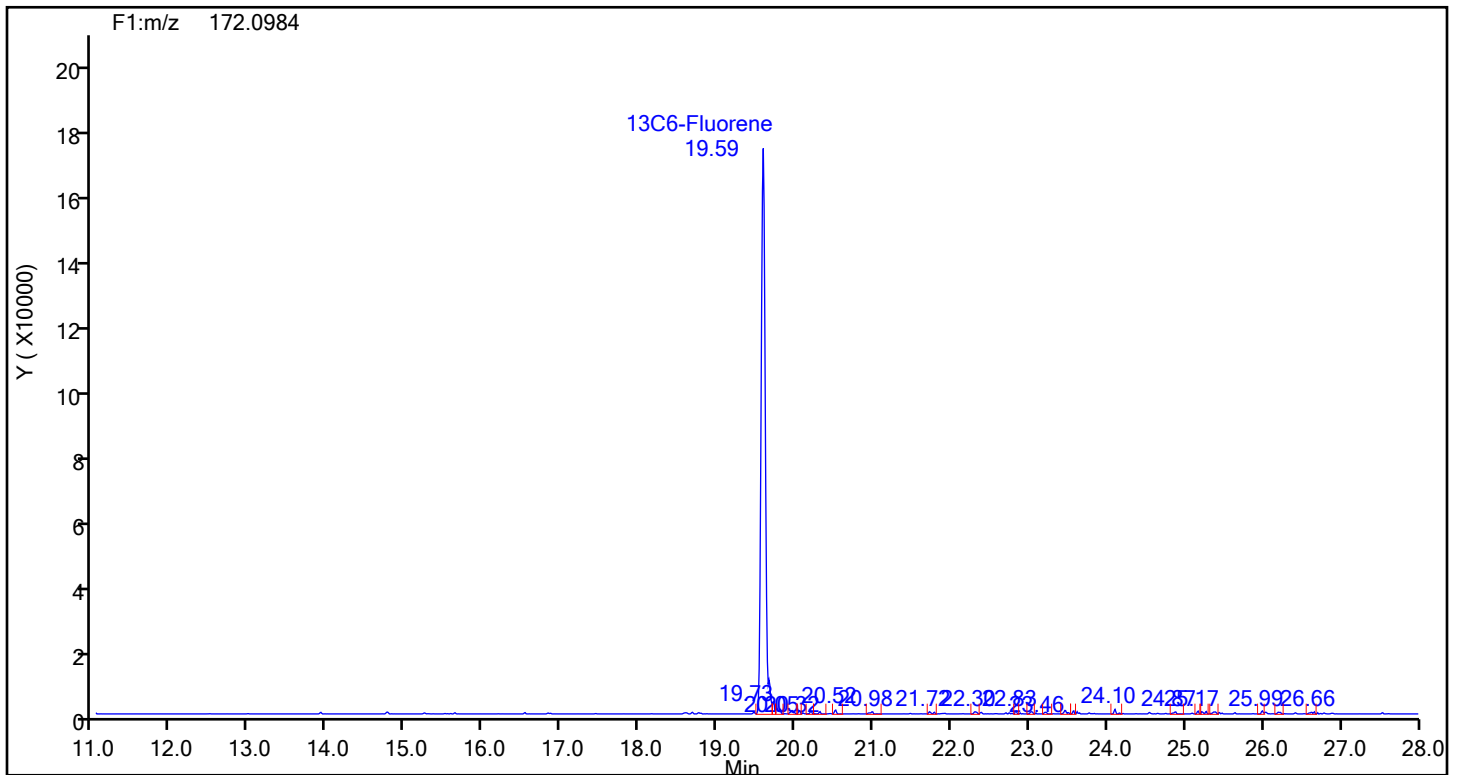
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



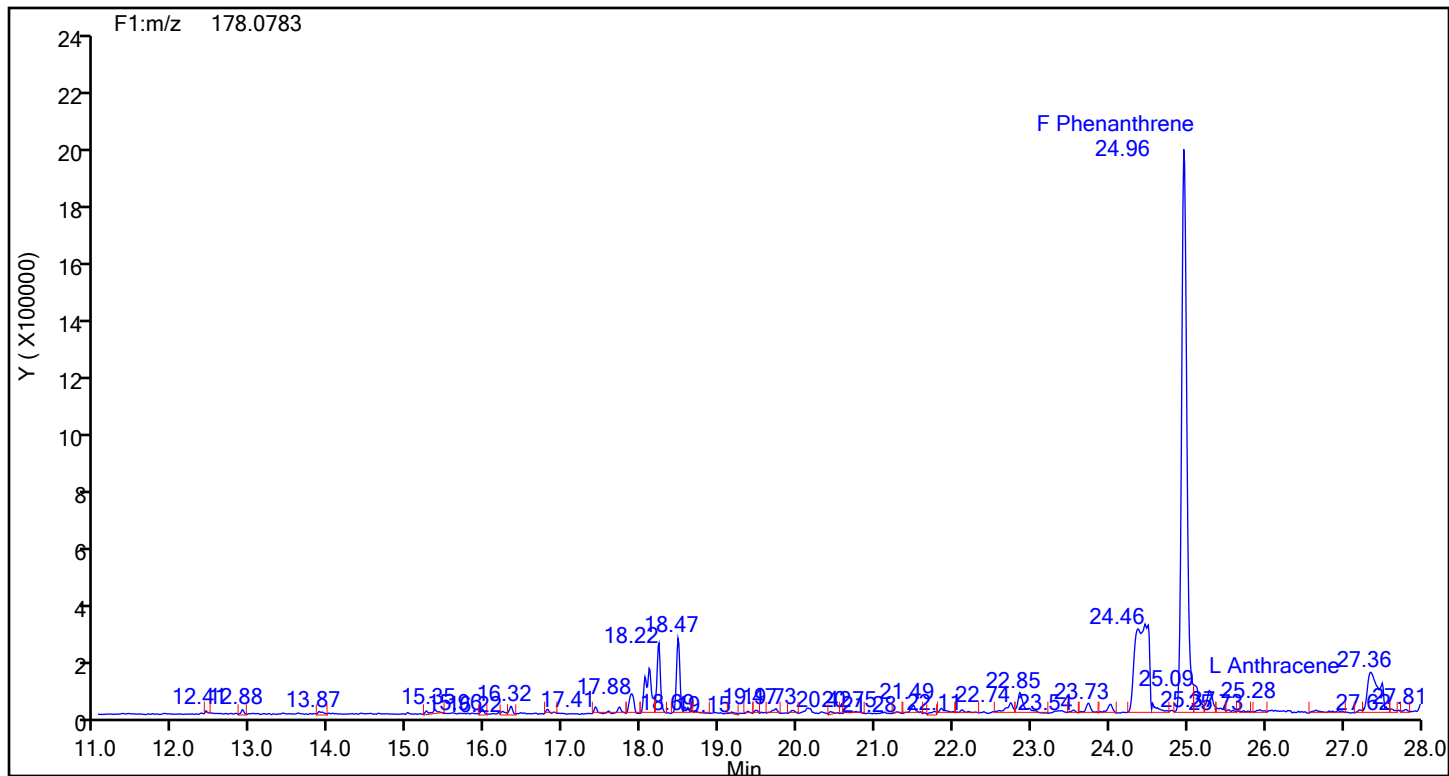
## Fluorene Standards



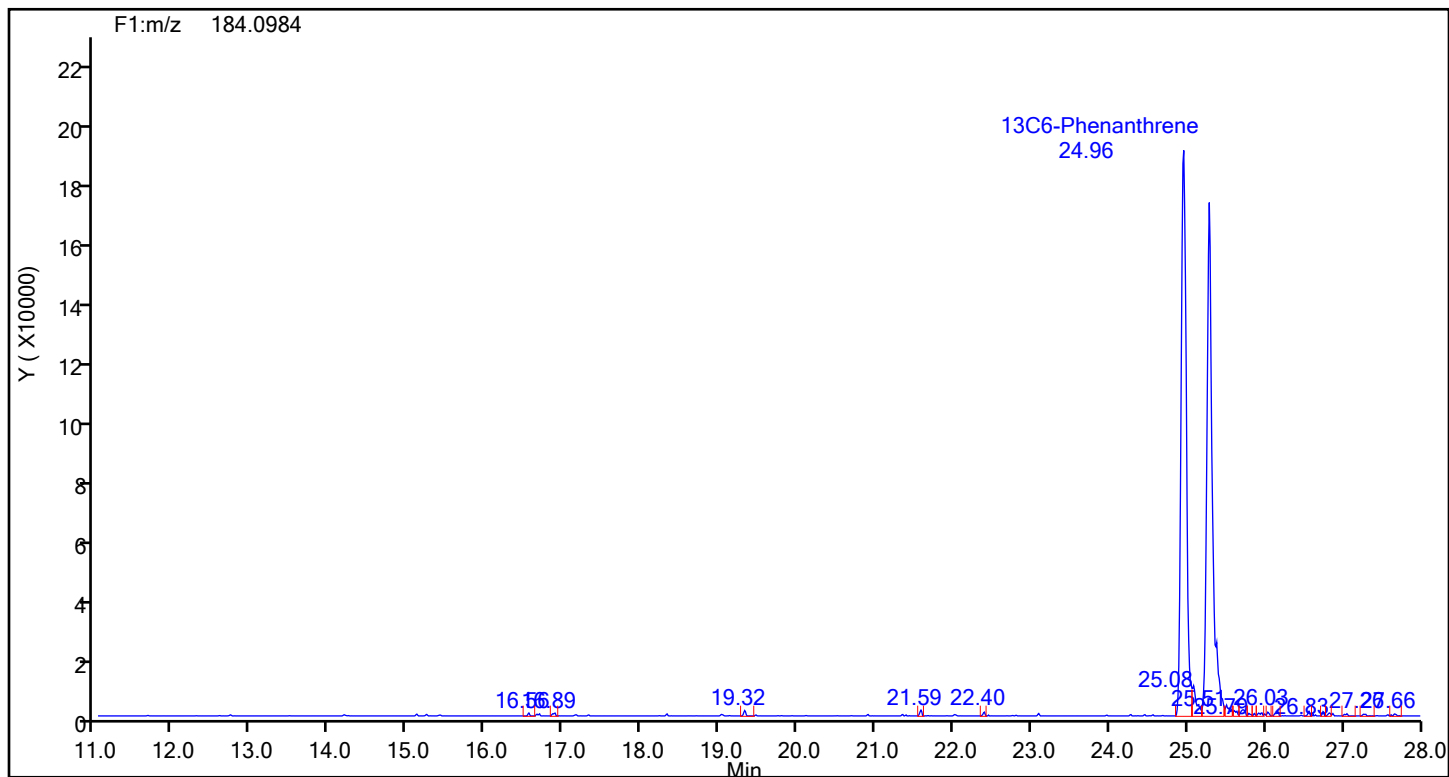
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Phenanthrene



## Phenanthrene Standards





## Eurofins Knoxville

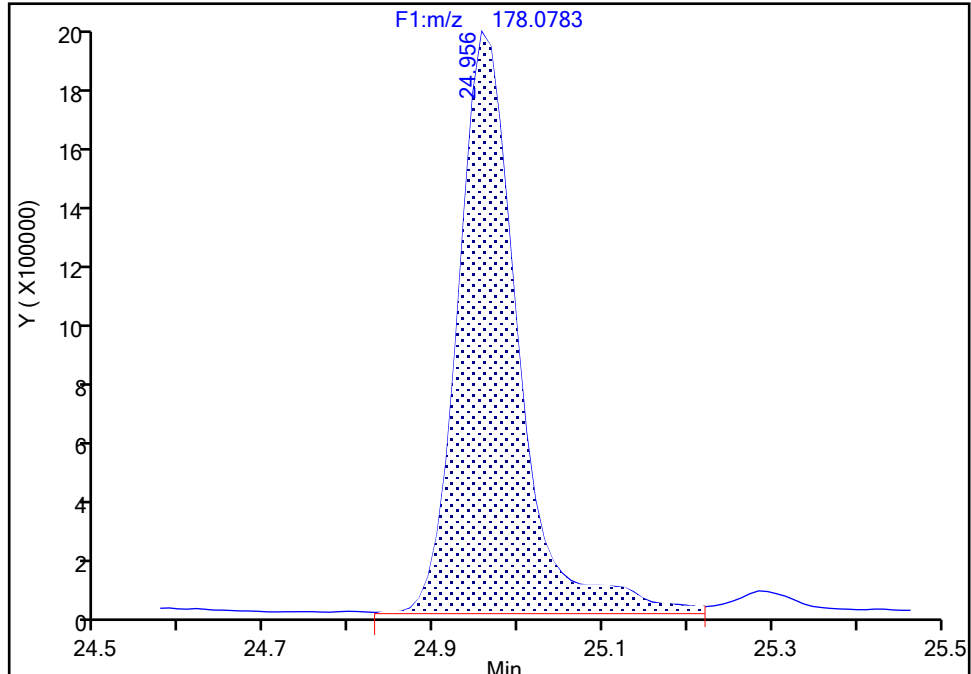
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

## Phenanthrene, CAS: 85-01-8

Signal: 1

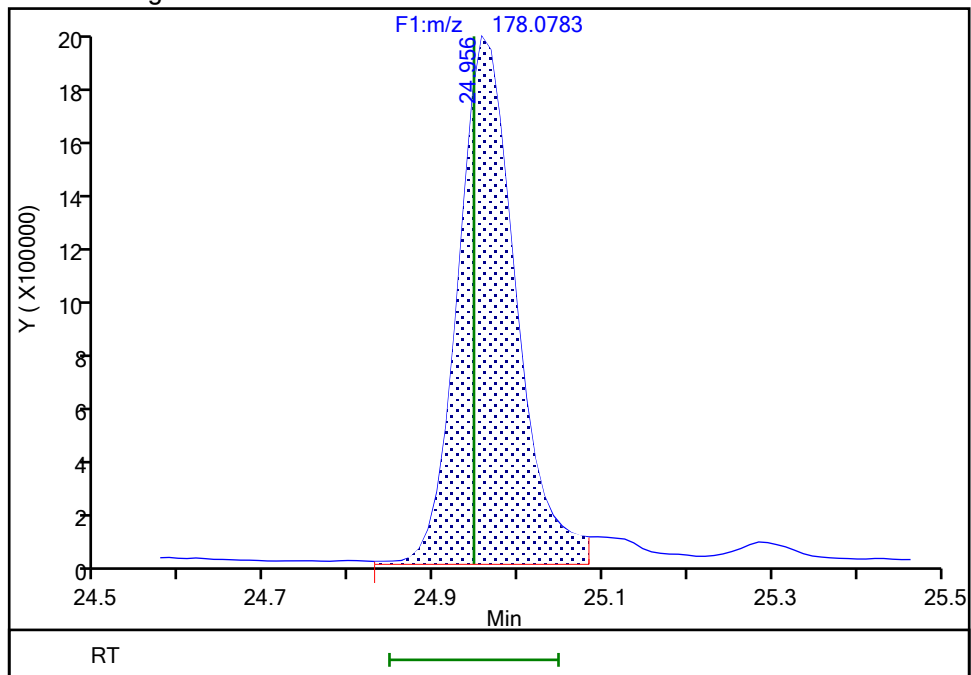
RT: 24.96  
Area: 9770055  
Amount: 51.103526  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.96  
Area: 9307828  
Amount: 48.685789  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:21:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

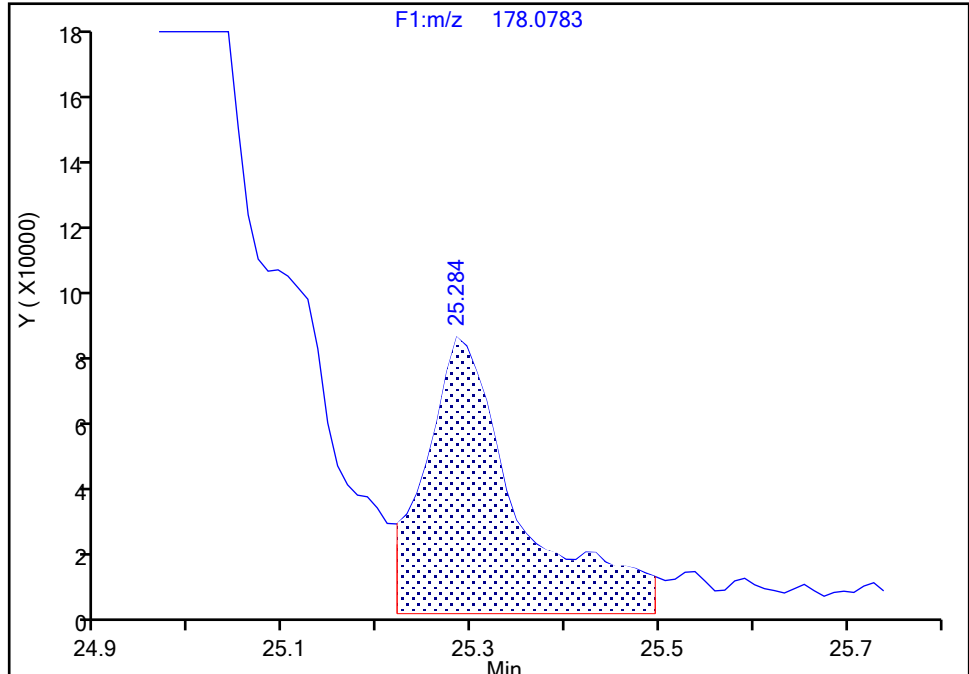
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

## Anthracene, CAS: 120-12-7

Signal: 1

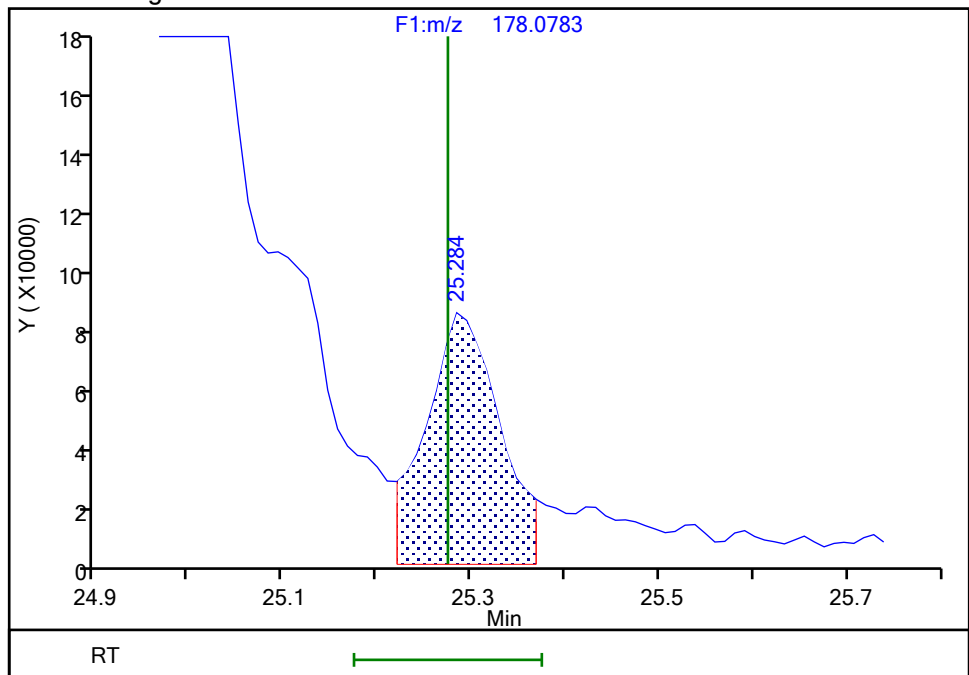
RT: 25.28  
Area: 546049  
Amount: 2.464143  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.28  
Area: 443033  
Amount: 1.999265  
Amount Units: pg/ul

## Manual Integration Results



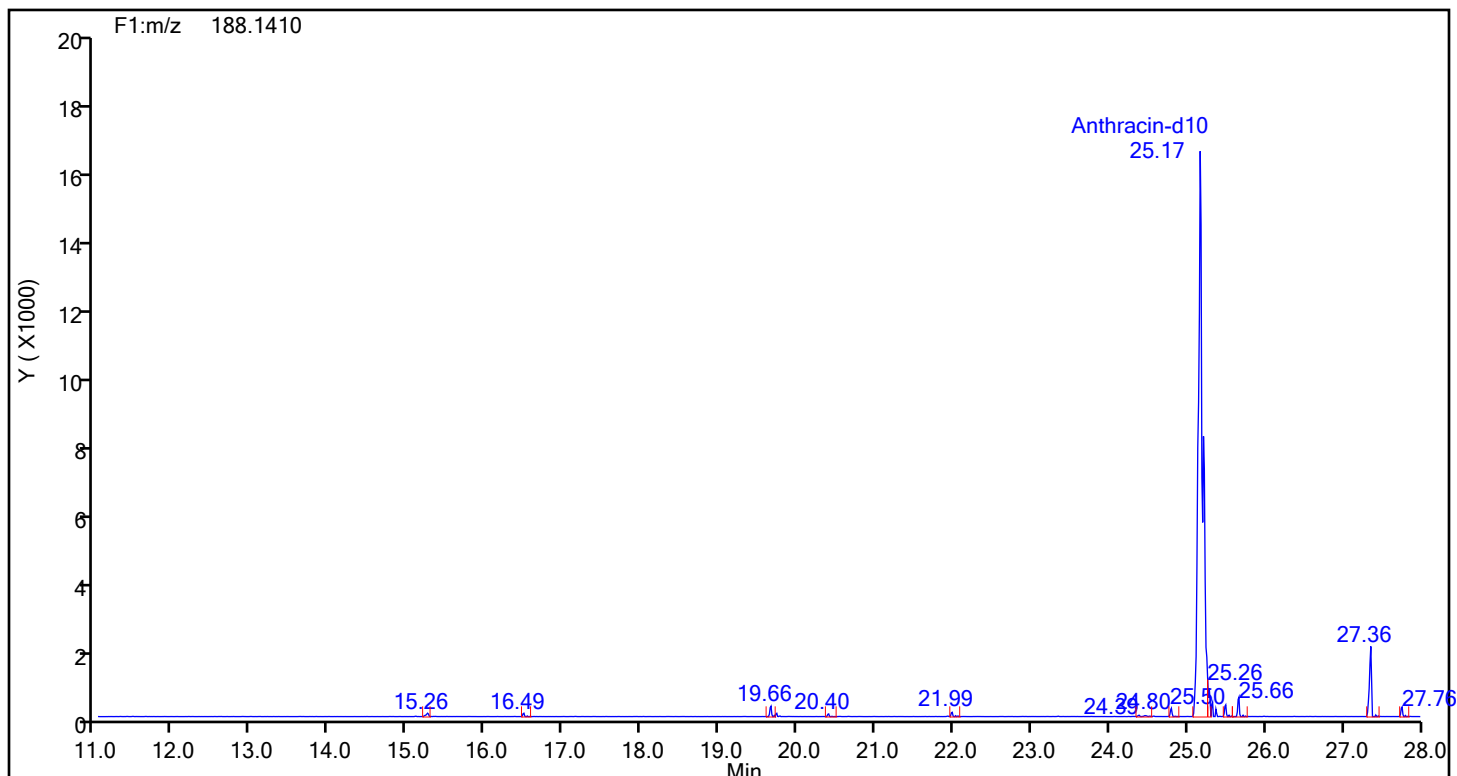
Reviewer: TT6I, 20-Jul-2024 10:19:53 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

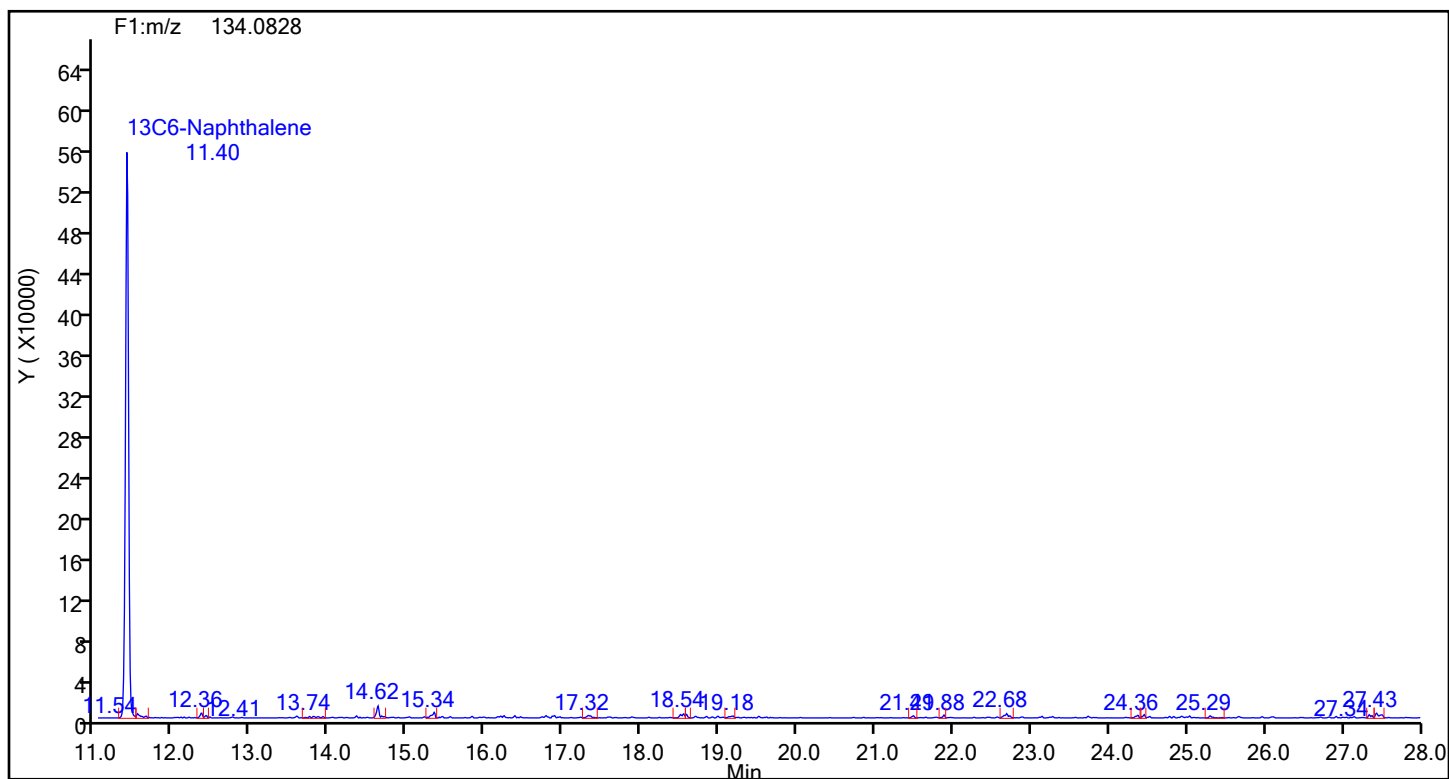
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

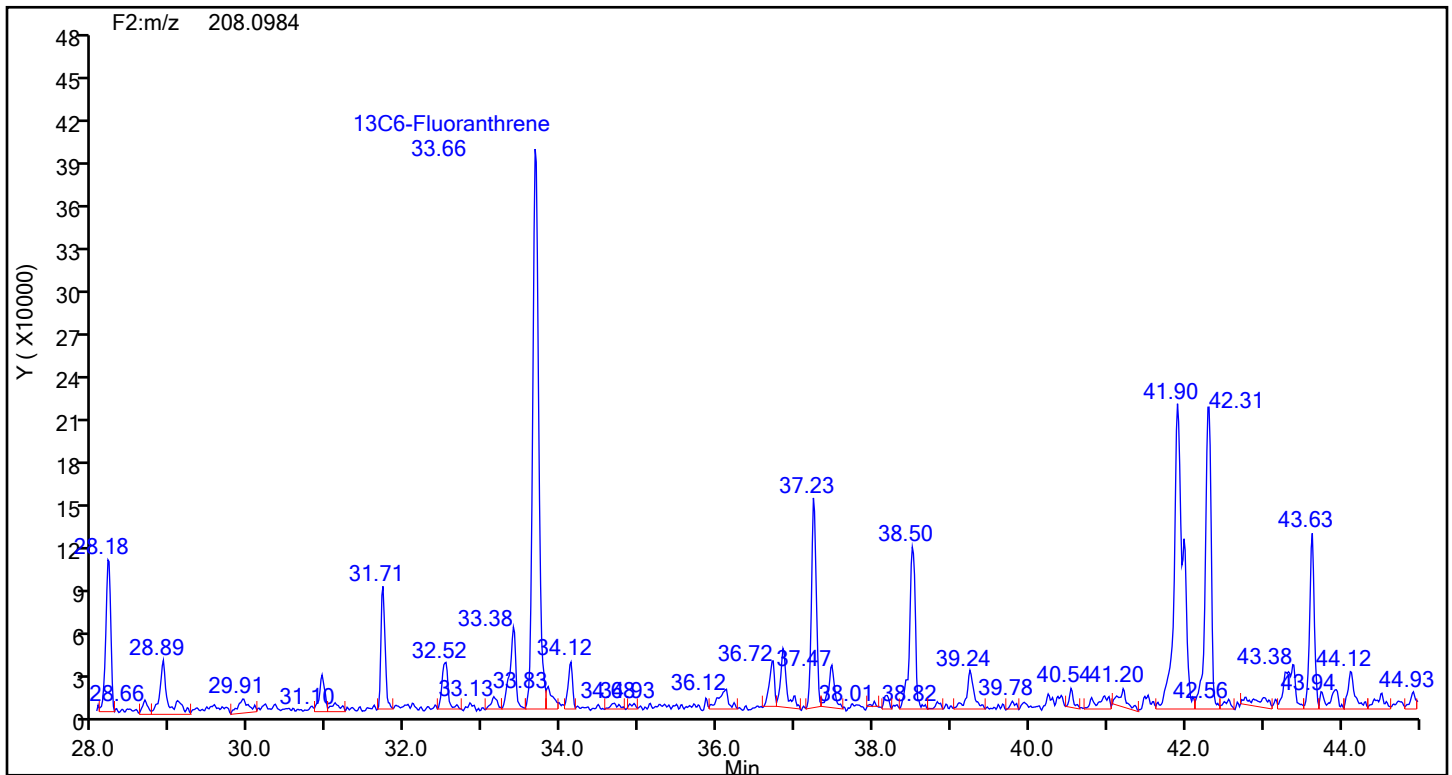
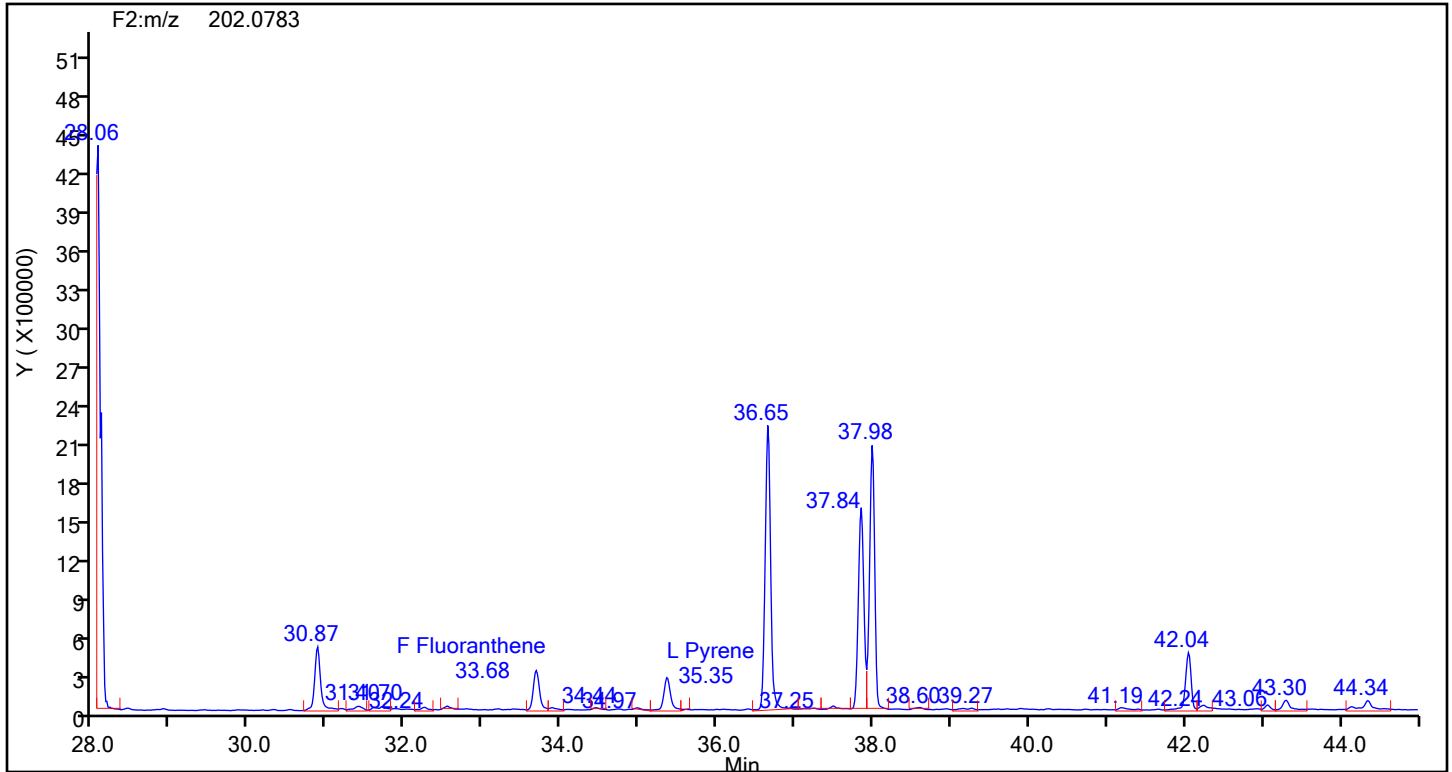


## Anthracin-d10 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



## Eurofins Knoxville

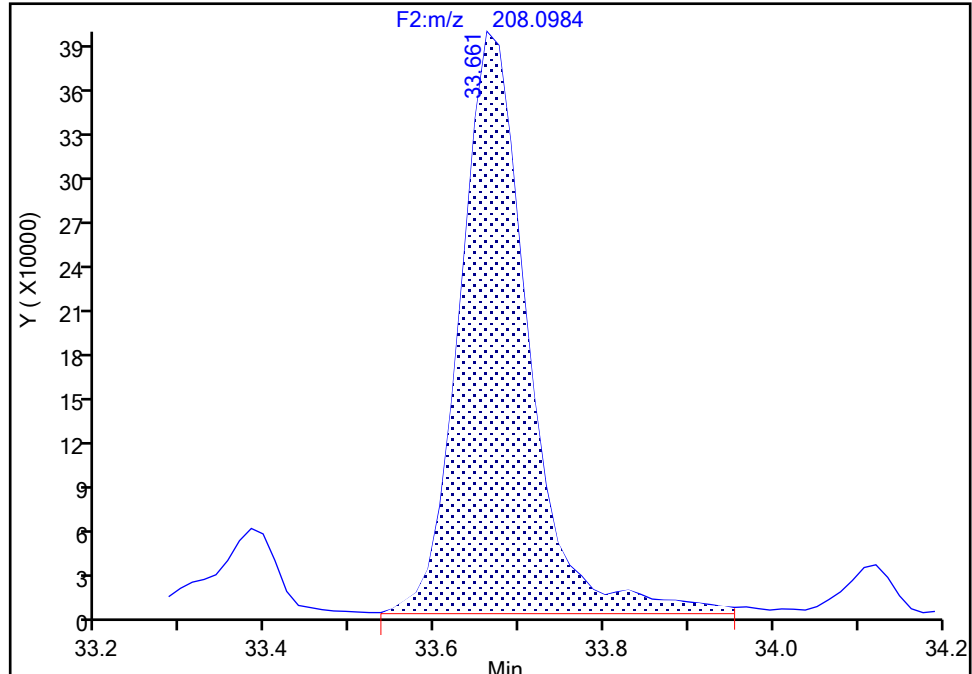
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F2(28.03 :43.99 )

**13C6-Fluoranthrene, CAS: 1397194-60-3**

Signal: 1

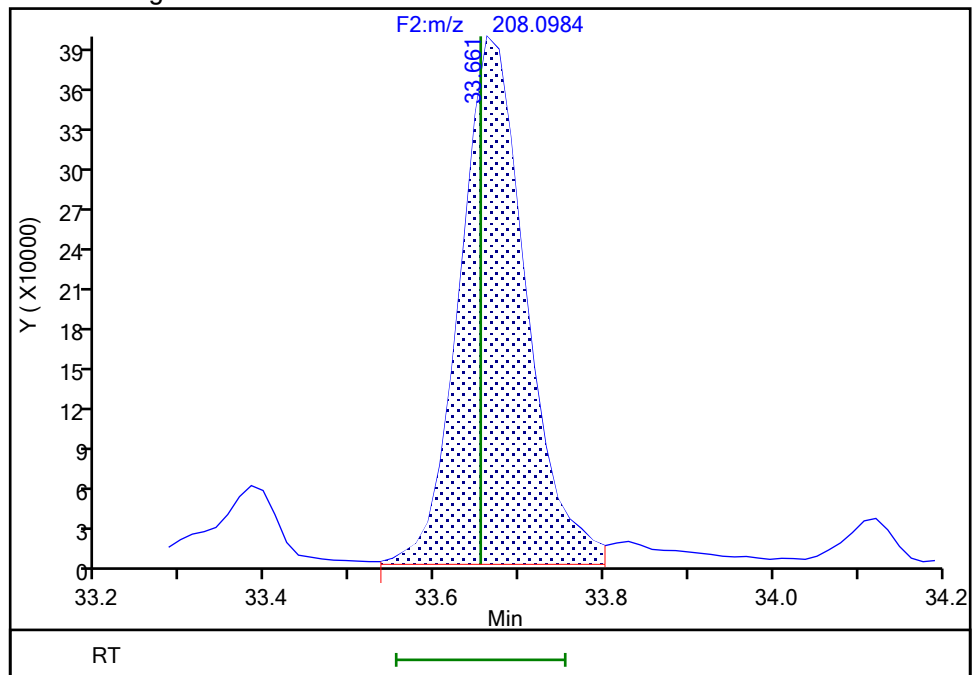
RT: 33.66  
Area: 2200200  
Amount: 4.999484  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.66  
Area: 2114819  
Amount: 4.805474  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:21:27 -04:00:00 (UTC)

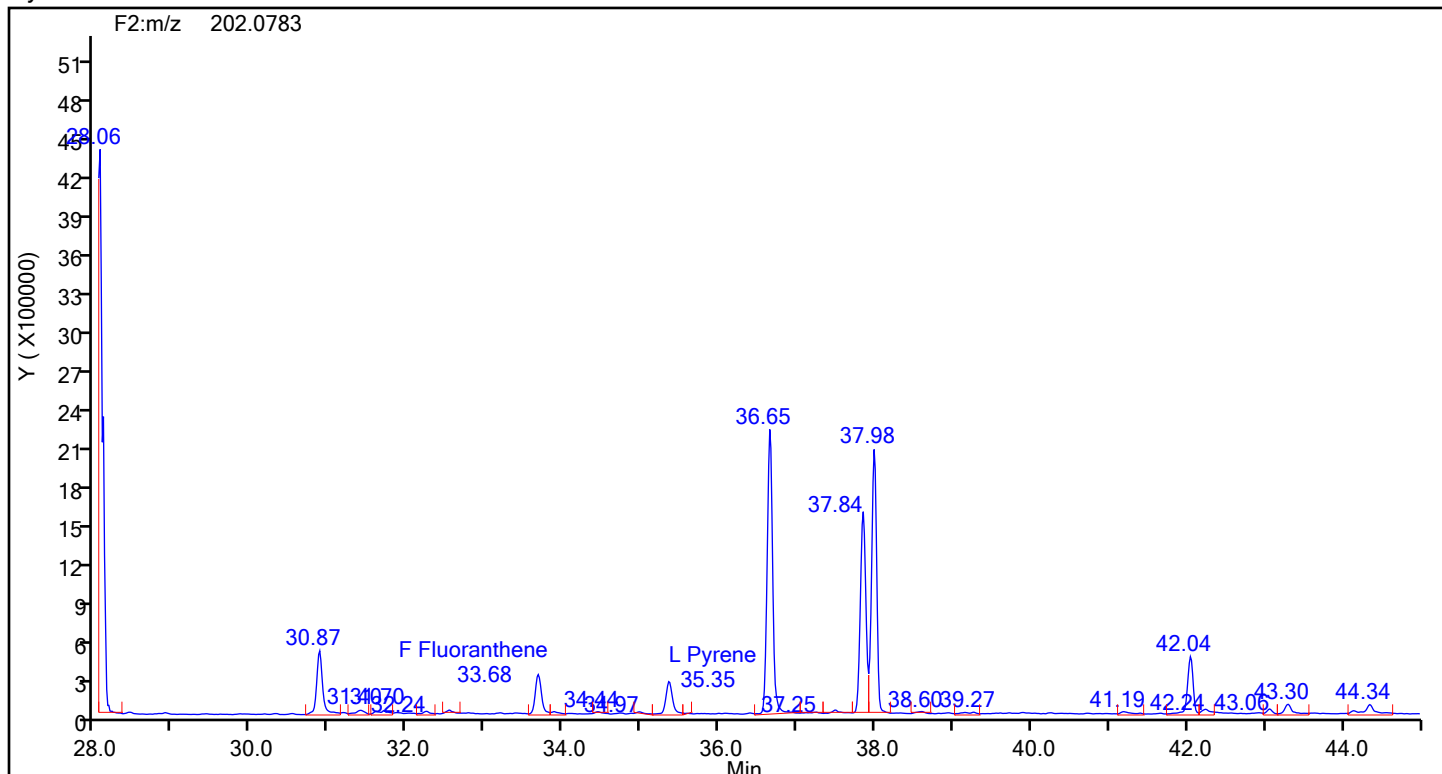
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

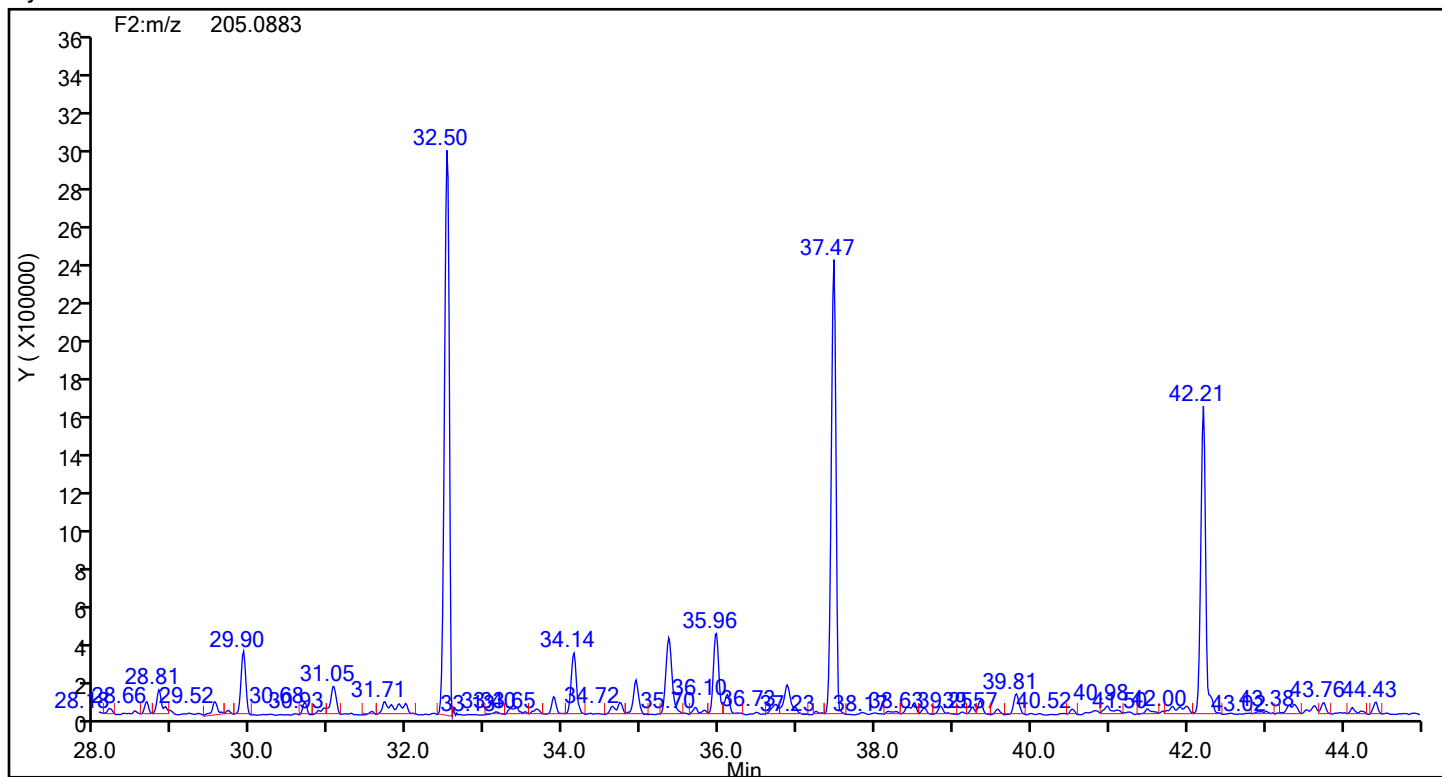
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



## Pyrene Standards



## Eurofins Knoxville

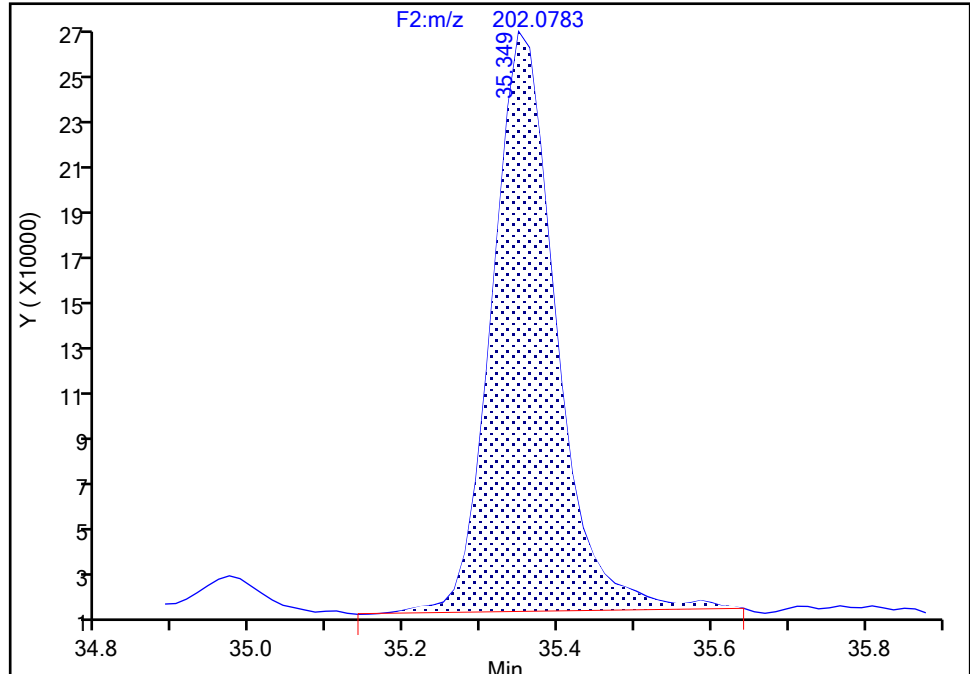
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F2(28.03 :43.99 )

Pyrene, CAS: 129-00-0

Signal: 1

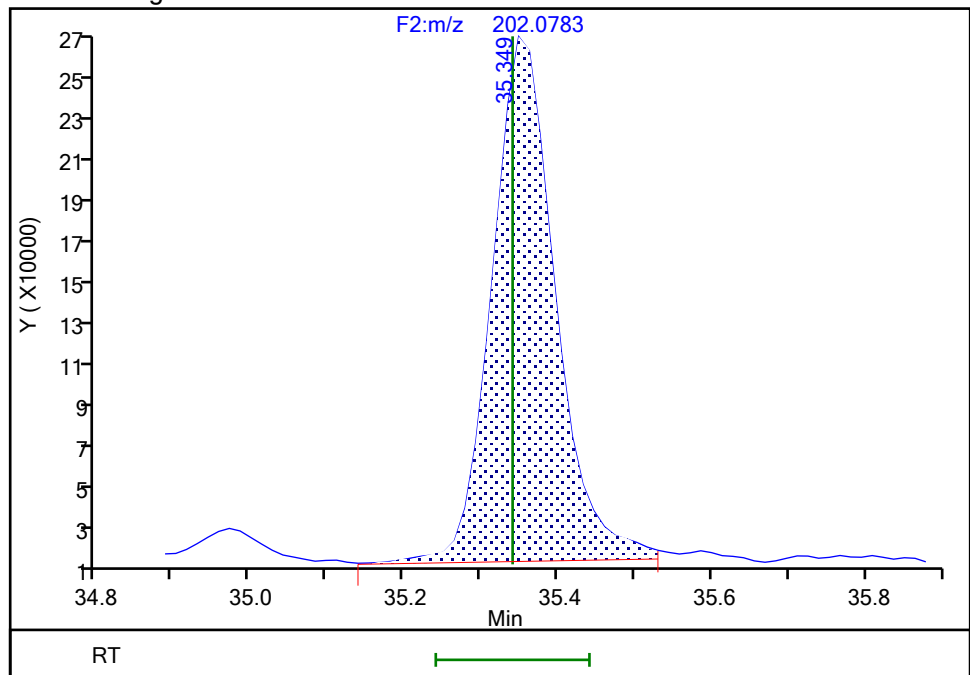
RT: 35.35  
Area: 1447777  
Amount: 3.108152  
Amount Units: pg/ul

## Processing Integration Results



RT: 35.35  
Area: 1433343  
Amount: 3.077165  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:21:37 -04:00:00 (UTC)

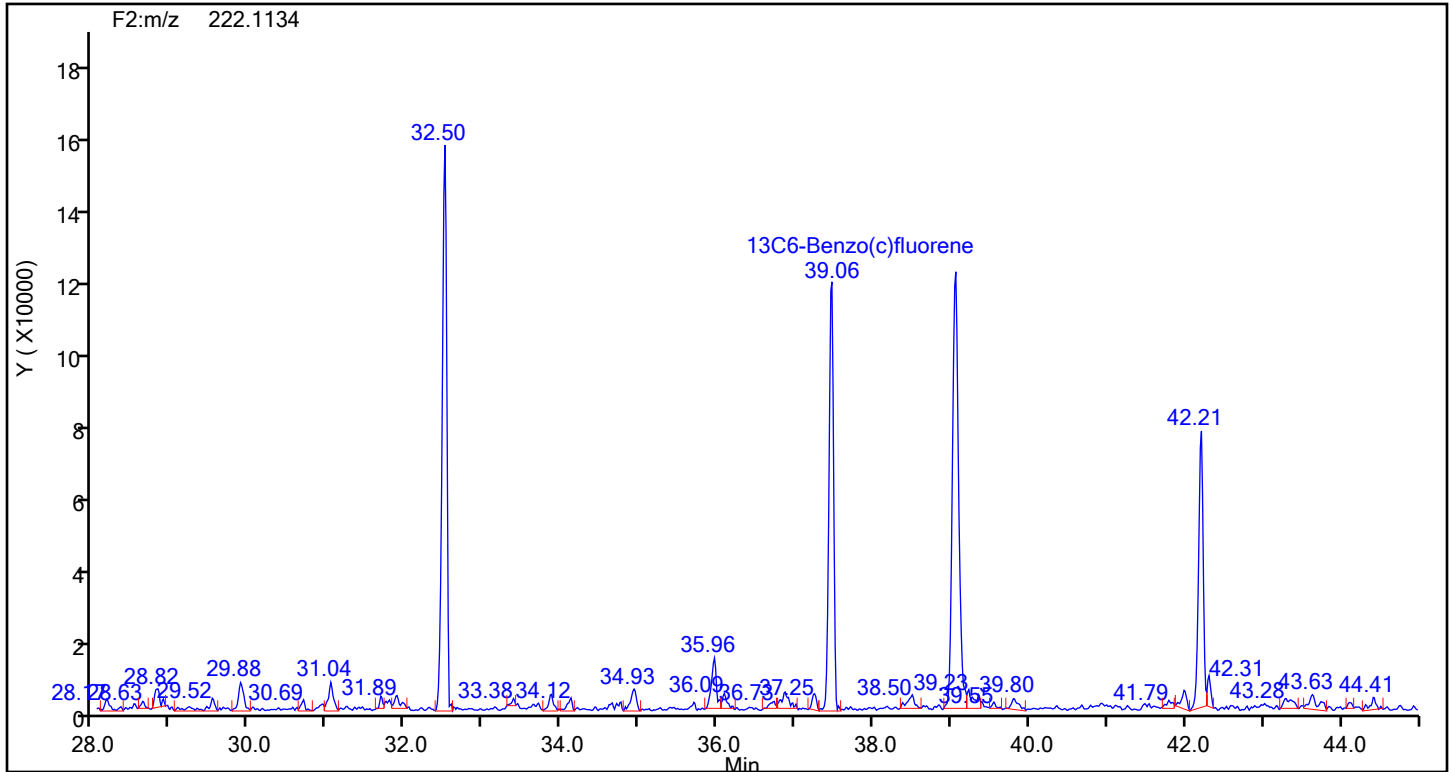
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

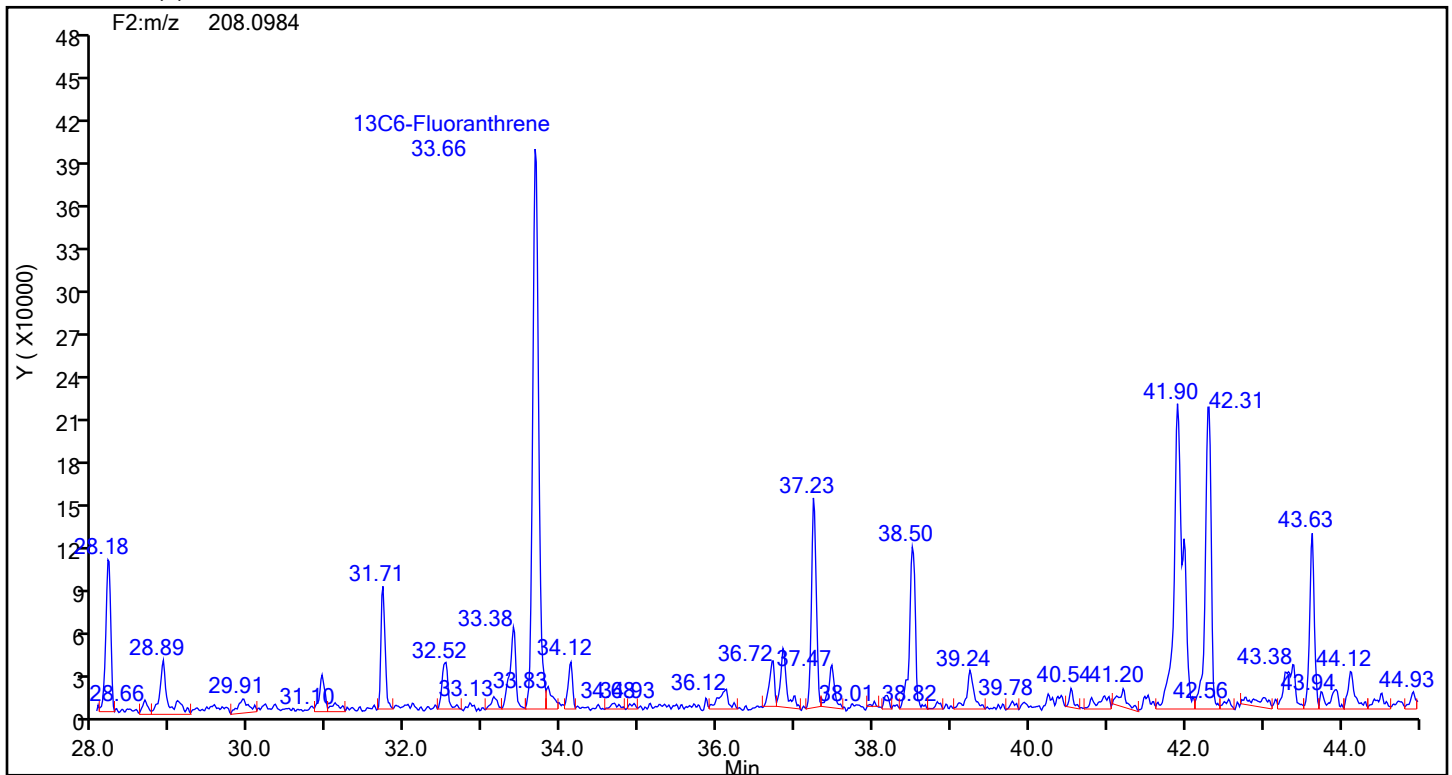
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



## 13C6-Benzo(c)fluorene Standards





## Eurofins Knoxville

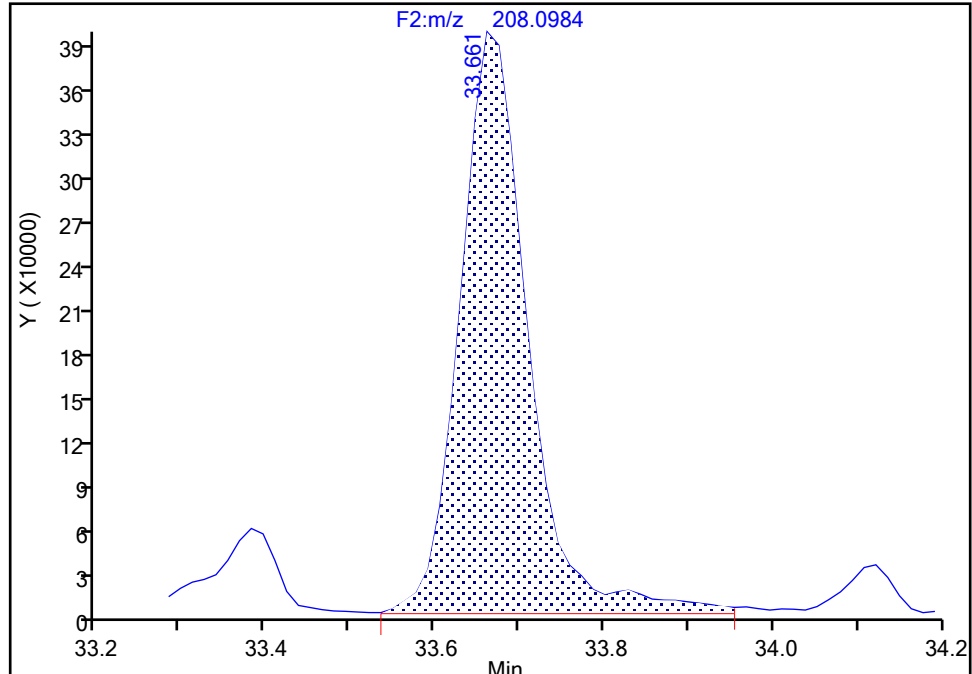
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F2(28.03 :43.99 )

**13C6-Fluoranthrene, CAS: 1397194-60-3**

Signal: 1

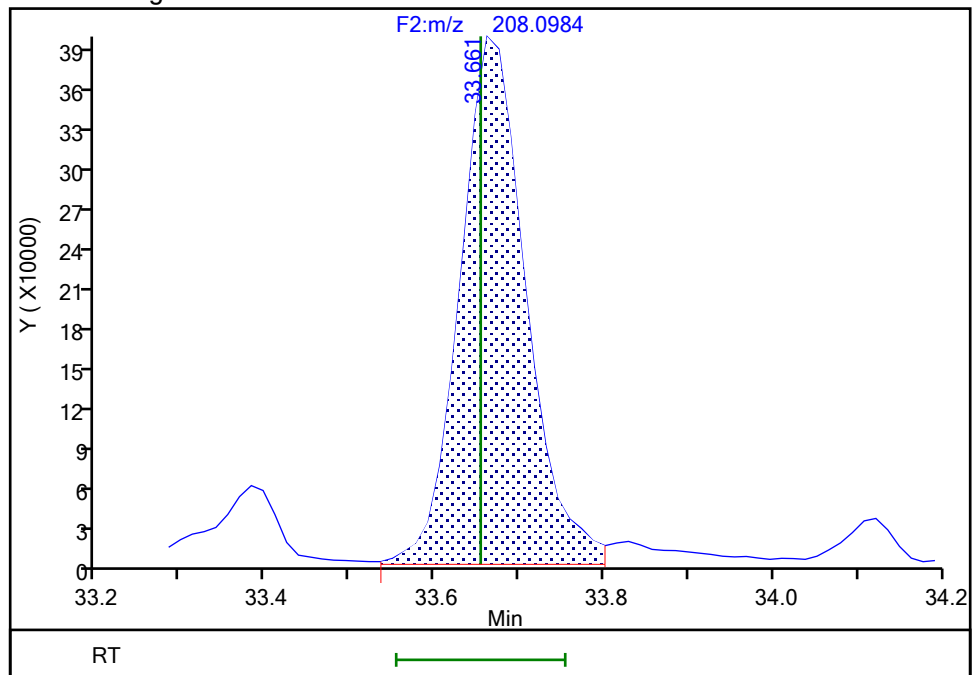
RT: 33.66  
Area: 2200200  
Amount: 4.999484  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.66  
Area: 2114819  
Amount: 4.805474  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:21:27 -04:00:00 (UTC)

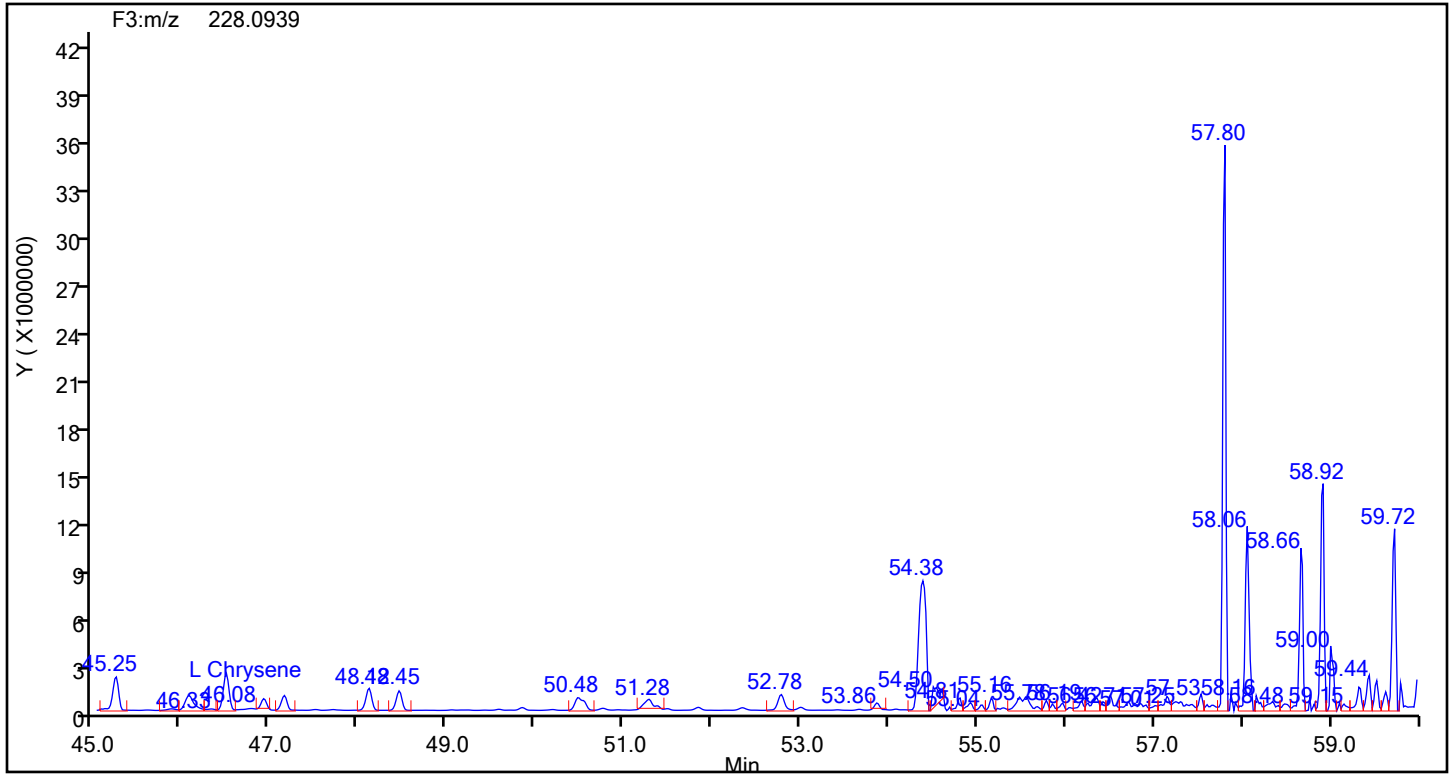
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

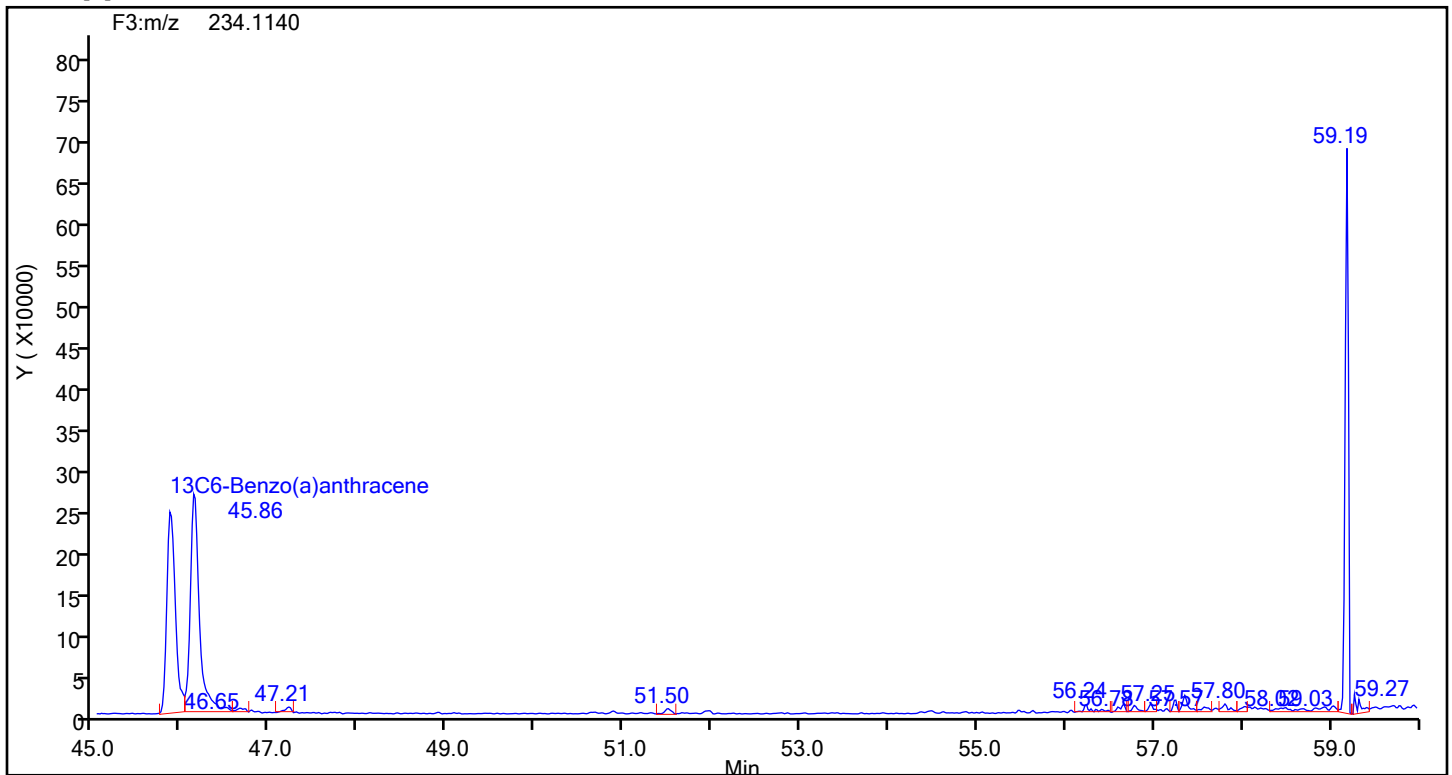
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



## Benzo[a]anthracene Standards



## Eurofins Knoxville

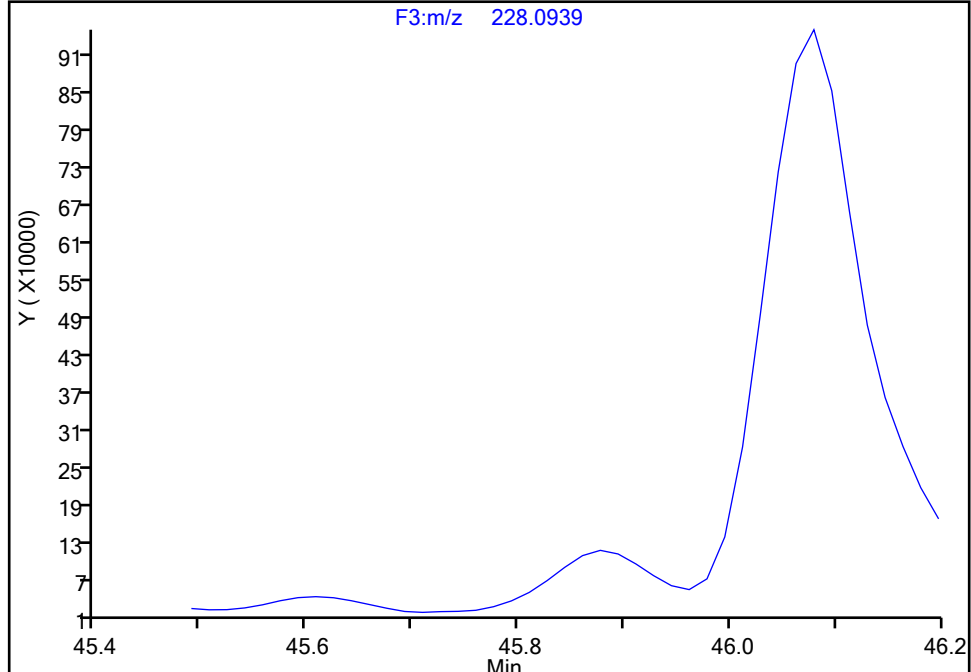
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[a]anthracene, CAS: 56-55-3

Signal: 1

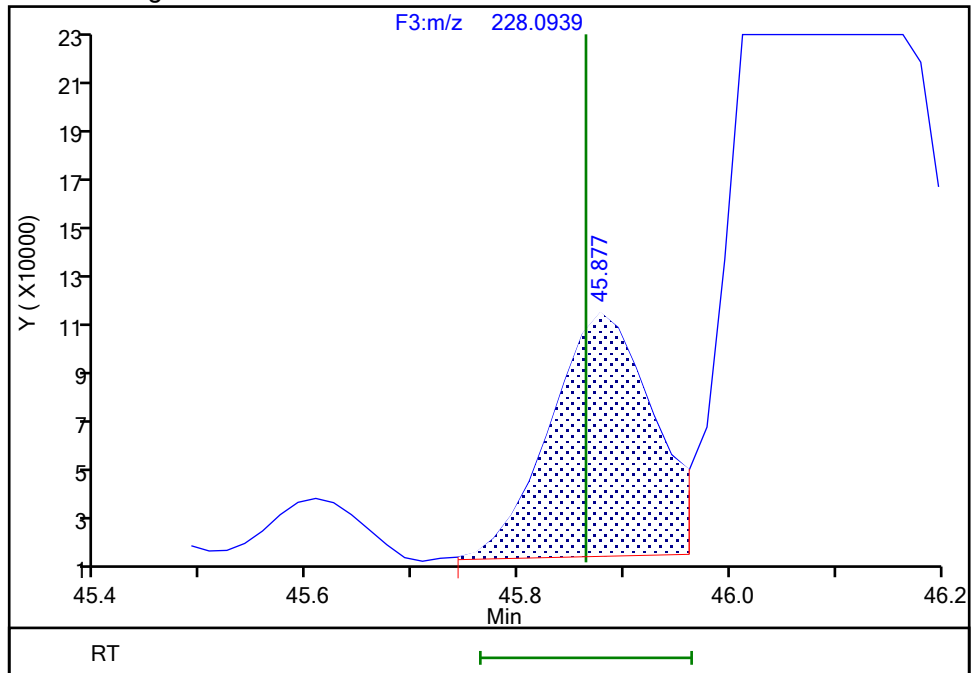
Not Detected  
Expected RT: 45.86

## Processing Integration Results



RT: 45.88  
Area: 671789  
Amount: 2.077428  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:21:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

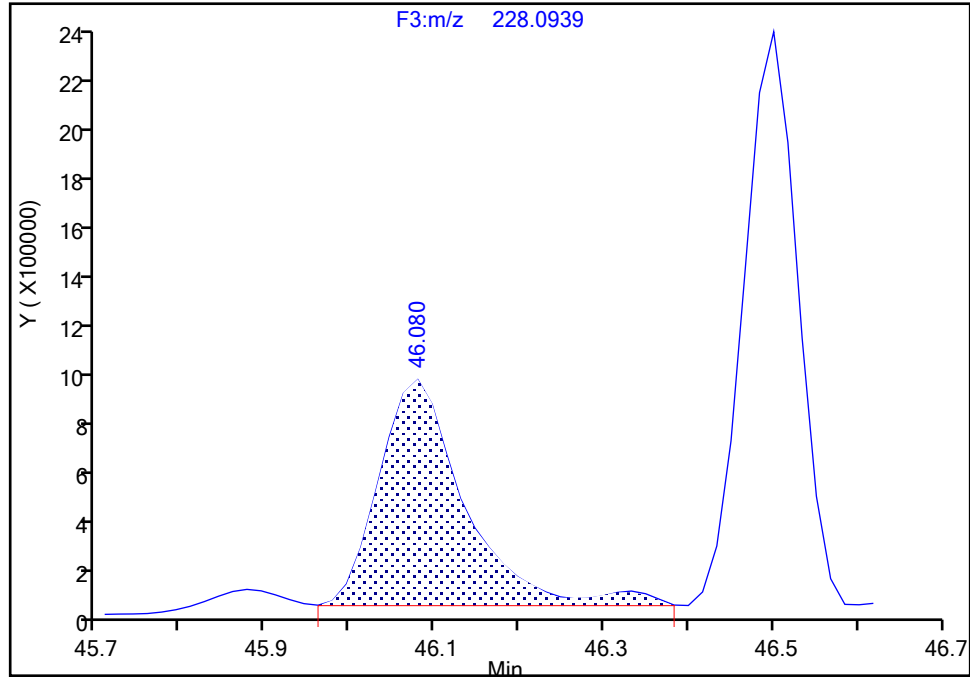
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Chrysene, CAS: 218-01-9

Signal: 1

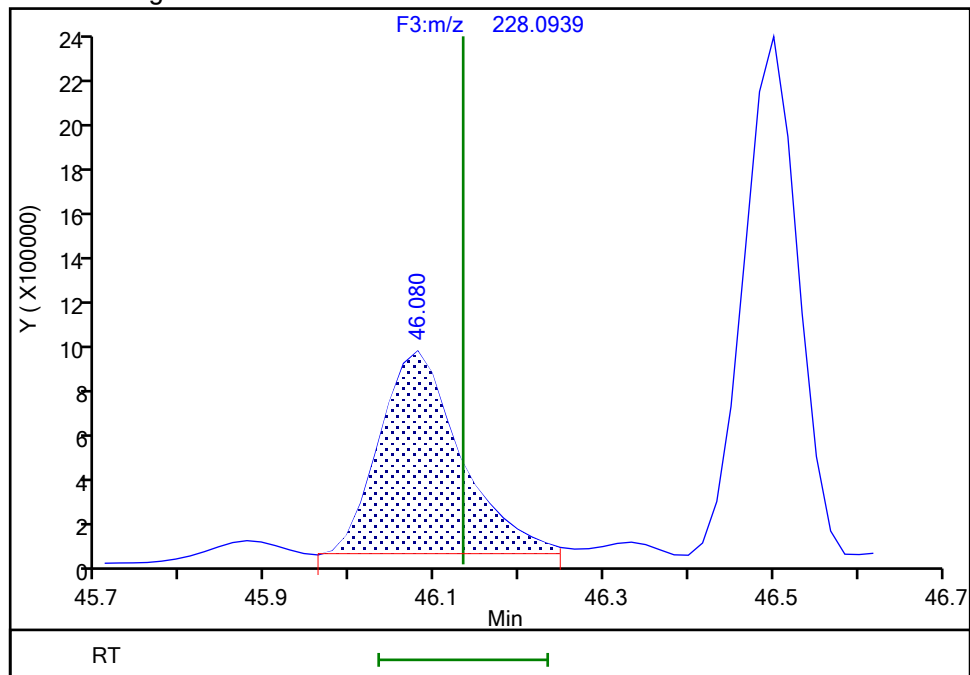
RT: 46.08  
Area: 6341097  
Amount: 16.787316  
Amount Units: pg/ul

## Processing Integration Results



RT: 46.08  
Area: 6072168  
Amount: 16.075358  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:21:01 -04:00:00 (UTC)

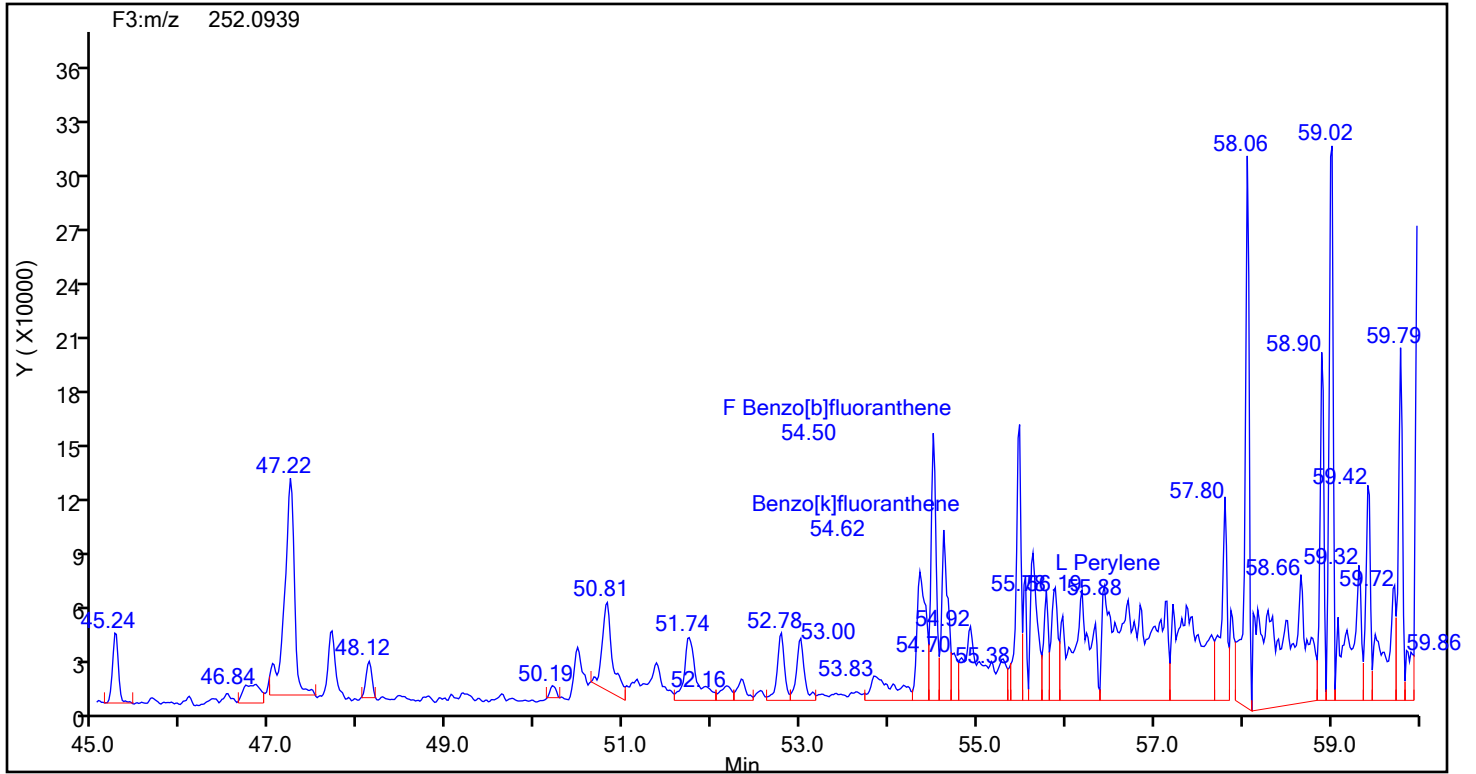
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

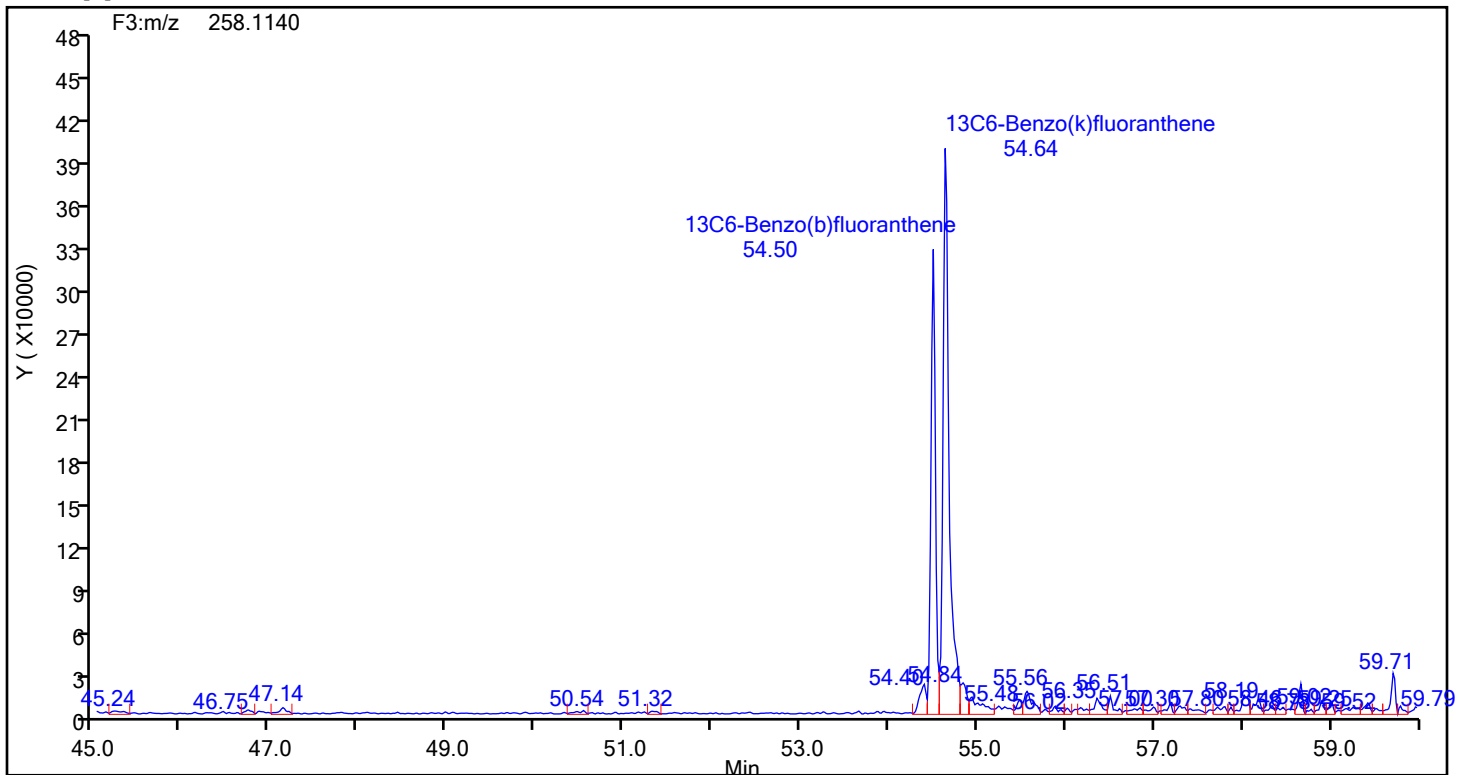
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards



## Eurofins Knoxville

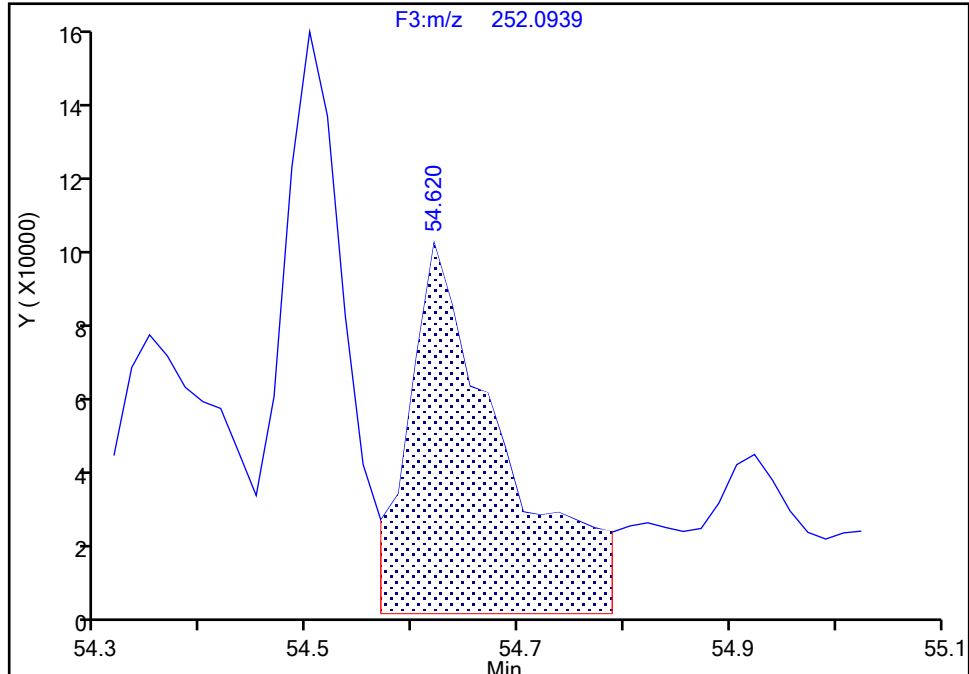
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

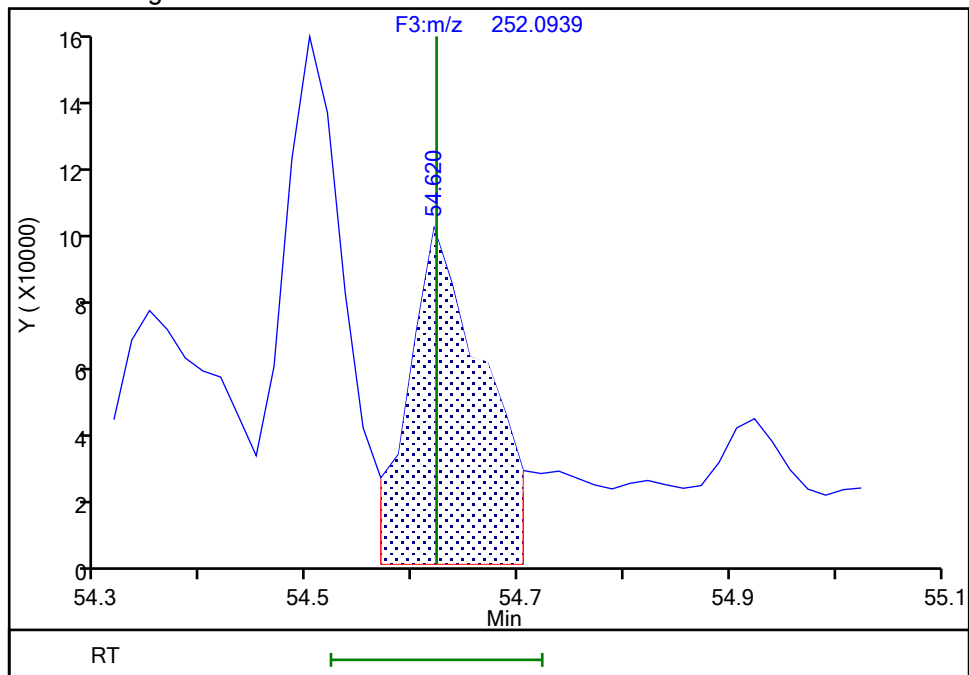
RT: 54.62  
Area: 567022  
Amount: 1.301997  
Amount Units: pg/ul

## Processing Integration Results



RT: 54.62  
Area: 472008  
Amount: 1.083826  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:22:12 -04:00:00 (UTC)

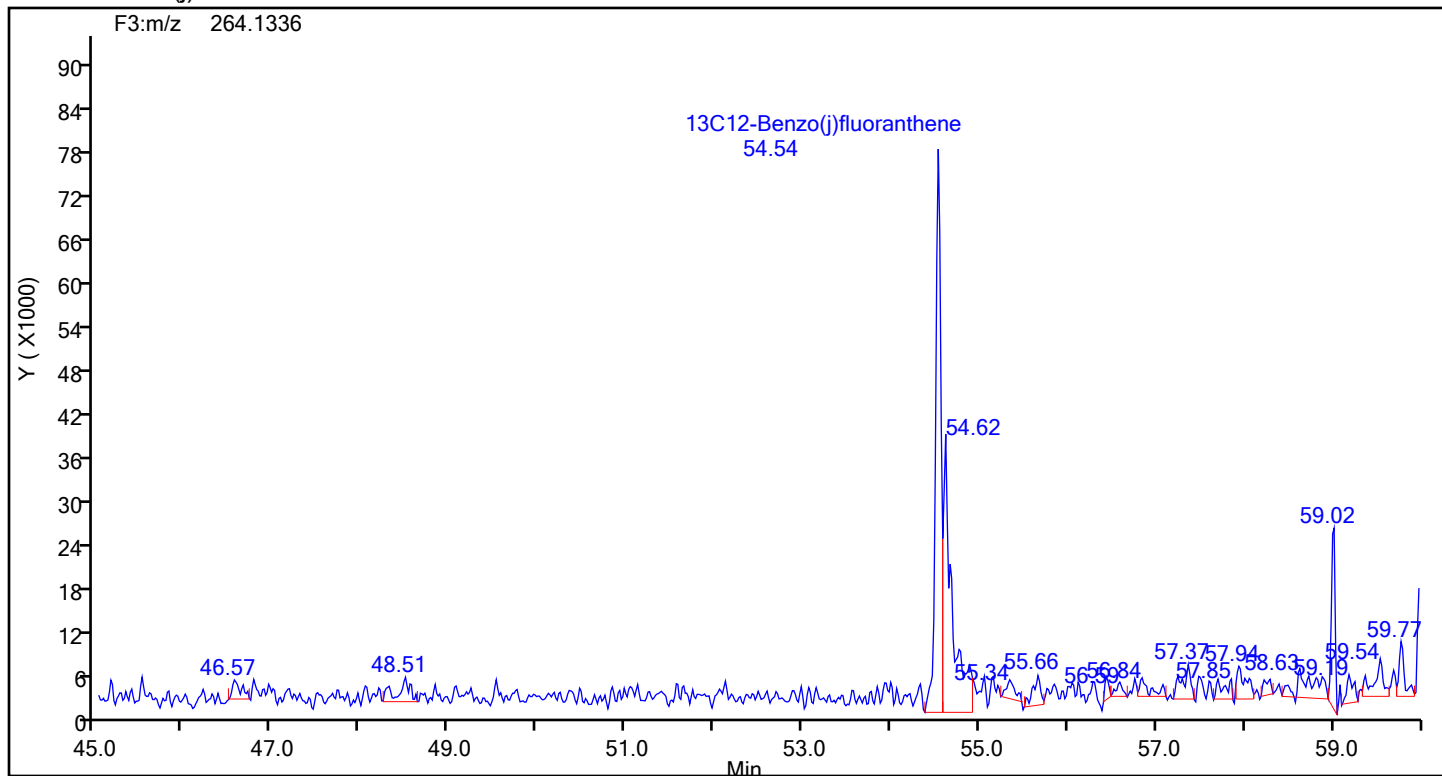
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

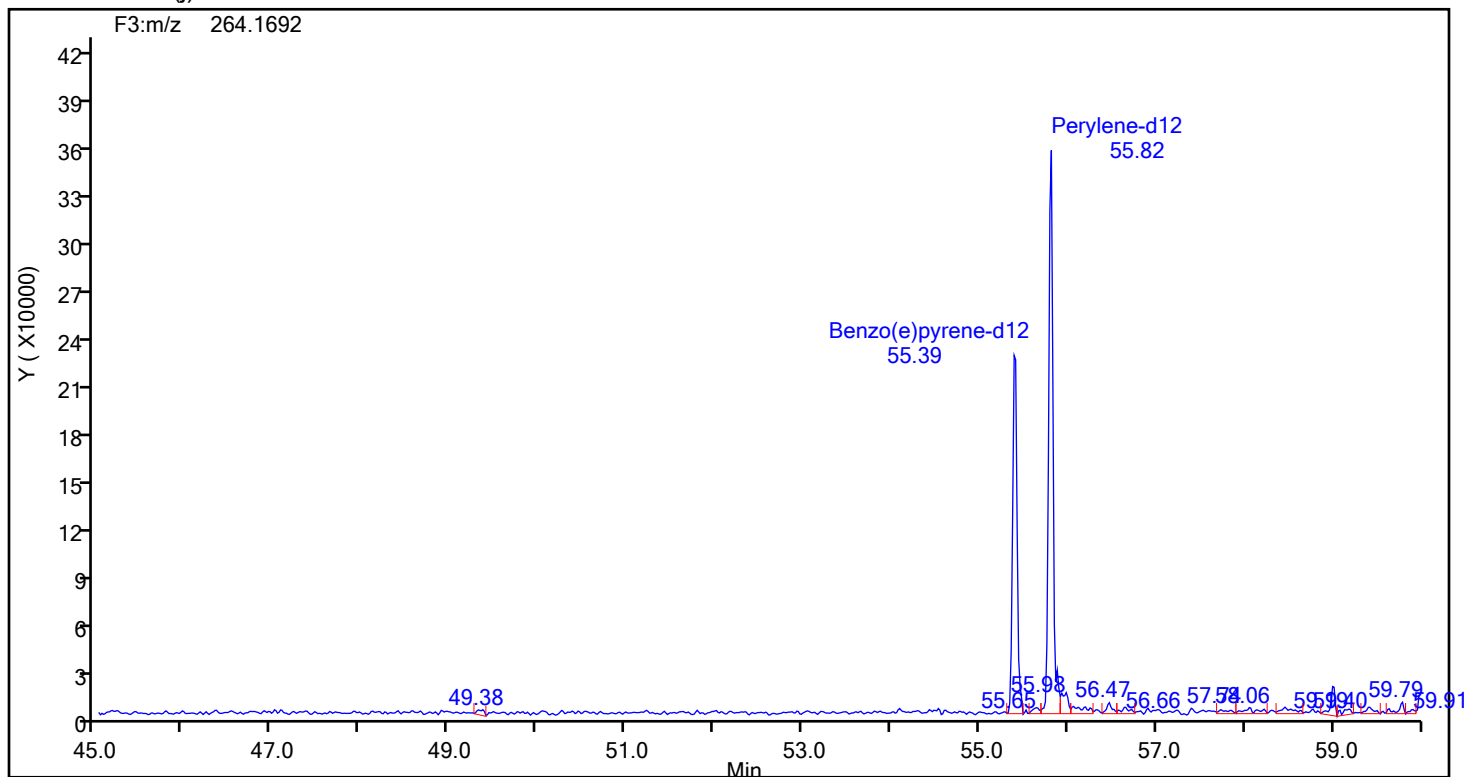
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



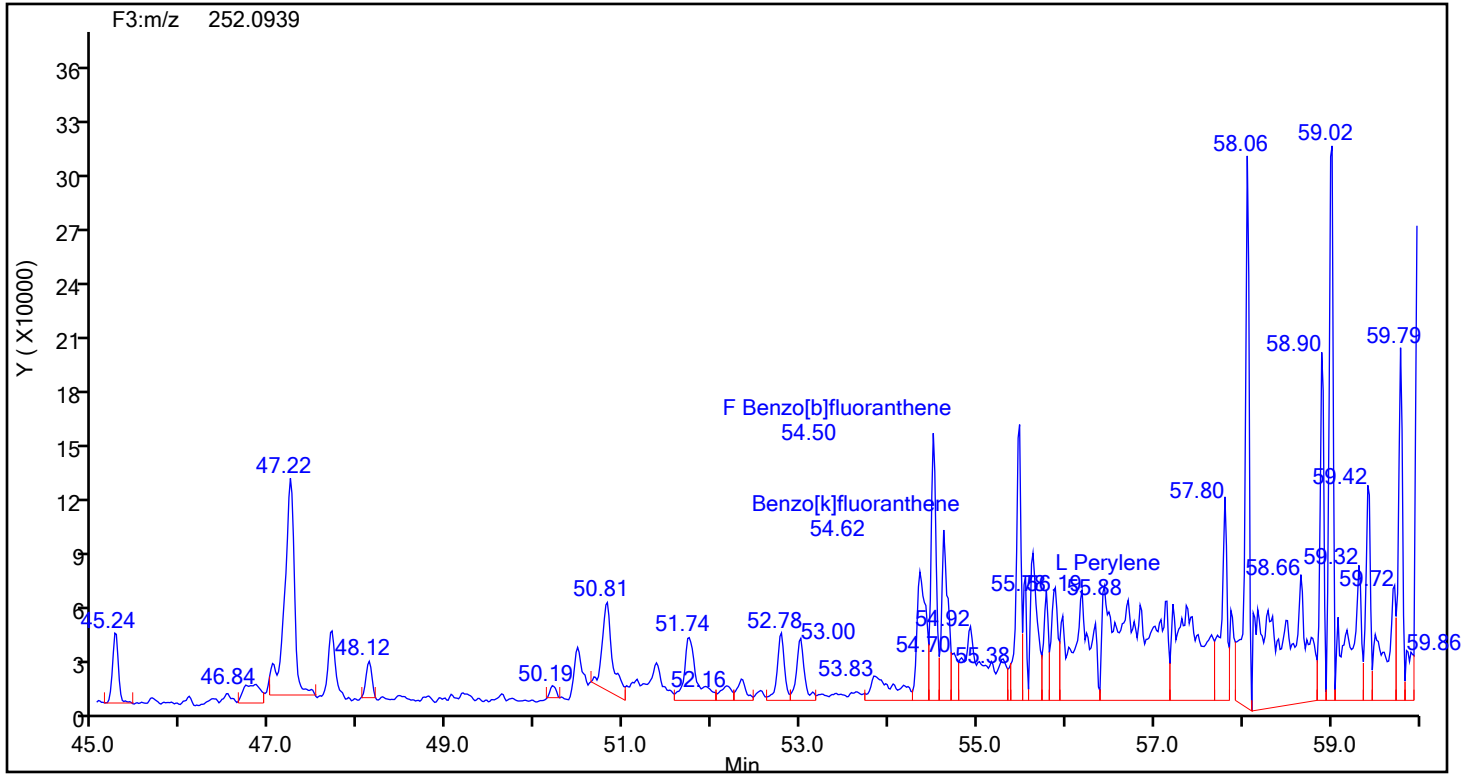
## 13C12-Benzo(j)fluoranthene Standards



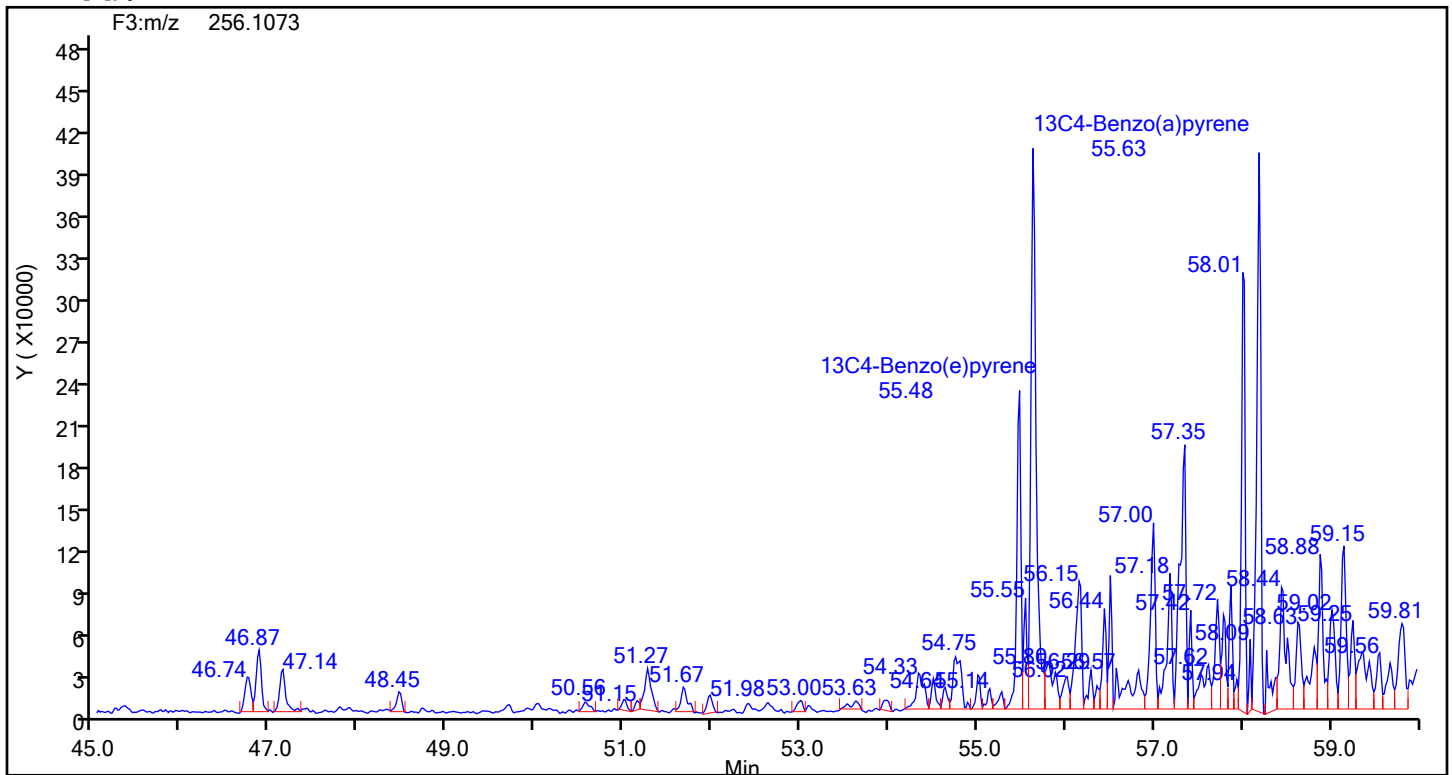
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



## Benzo[e]pyrene Standards





## Eurofins Knoxville

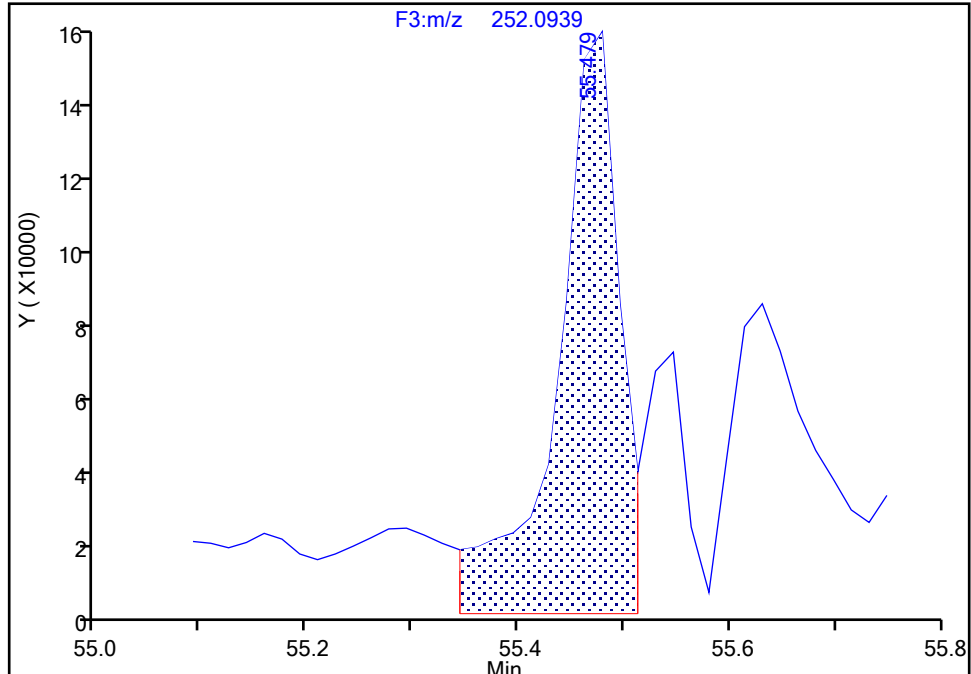
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

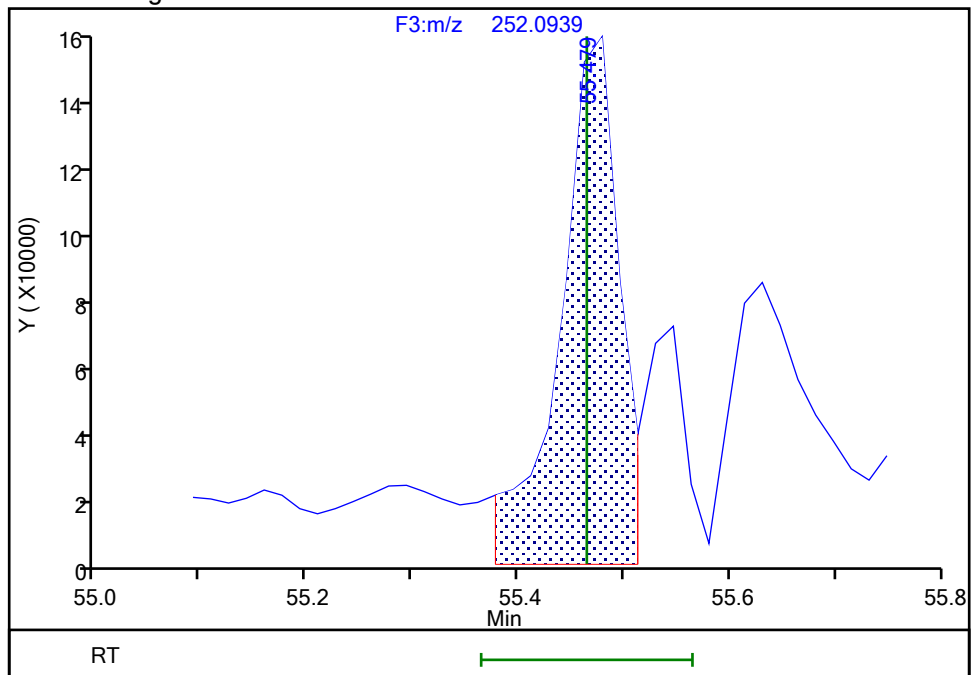
RT: 55.48  
Area: 607717  
Amount: 4.200235  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.48  
Area: 600341  
Amount: 4.149255  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:20:25 -04:00:00 (UTC)

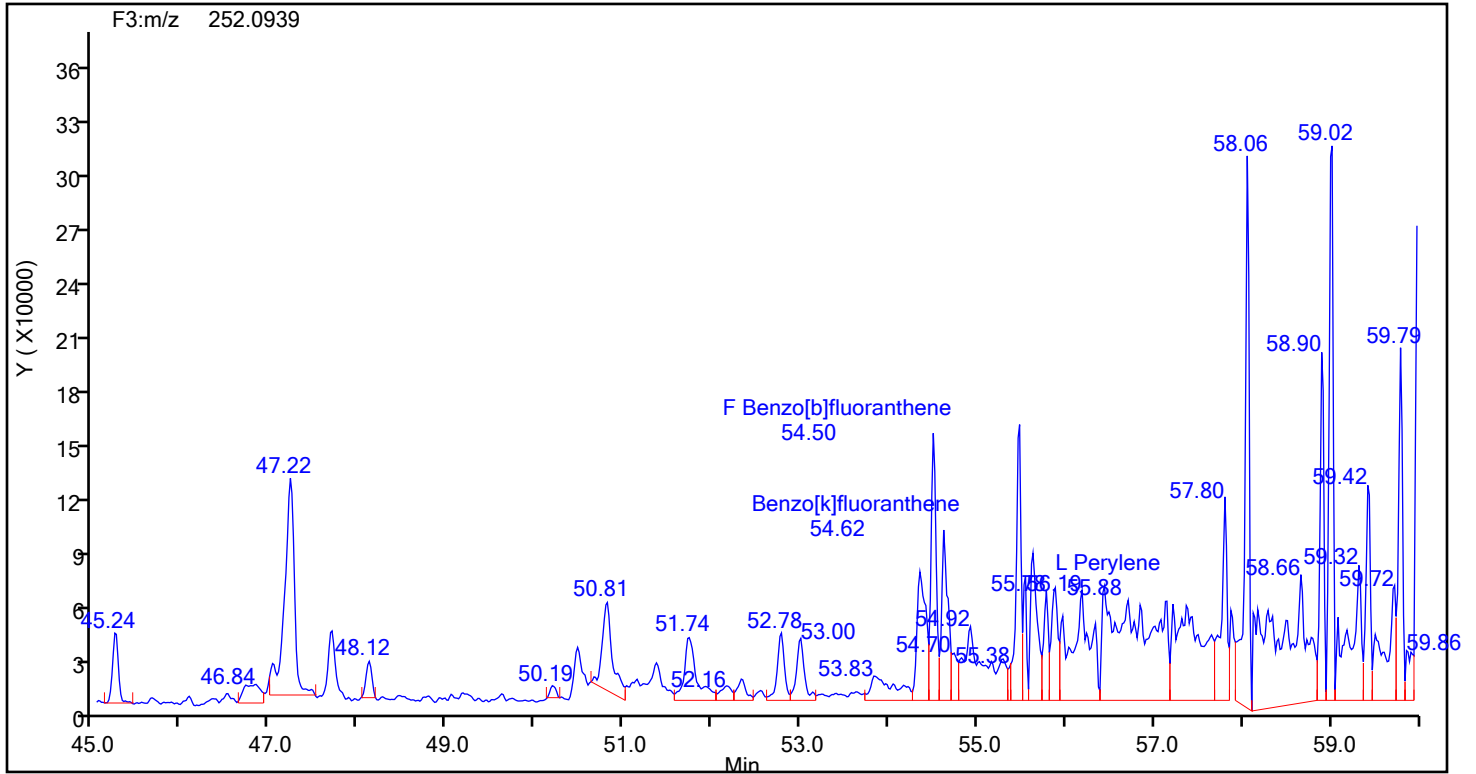
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

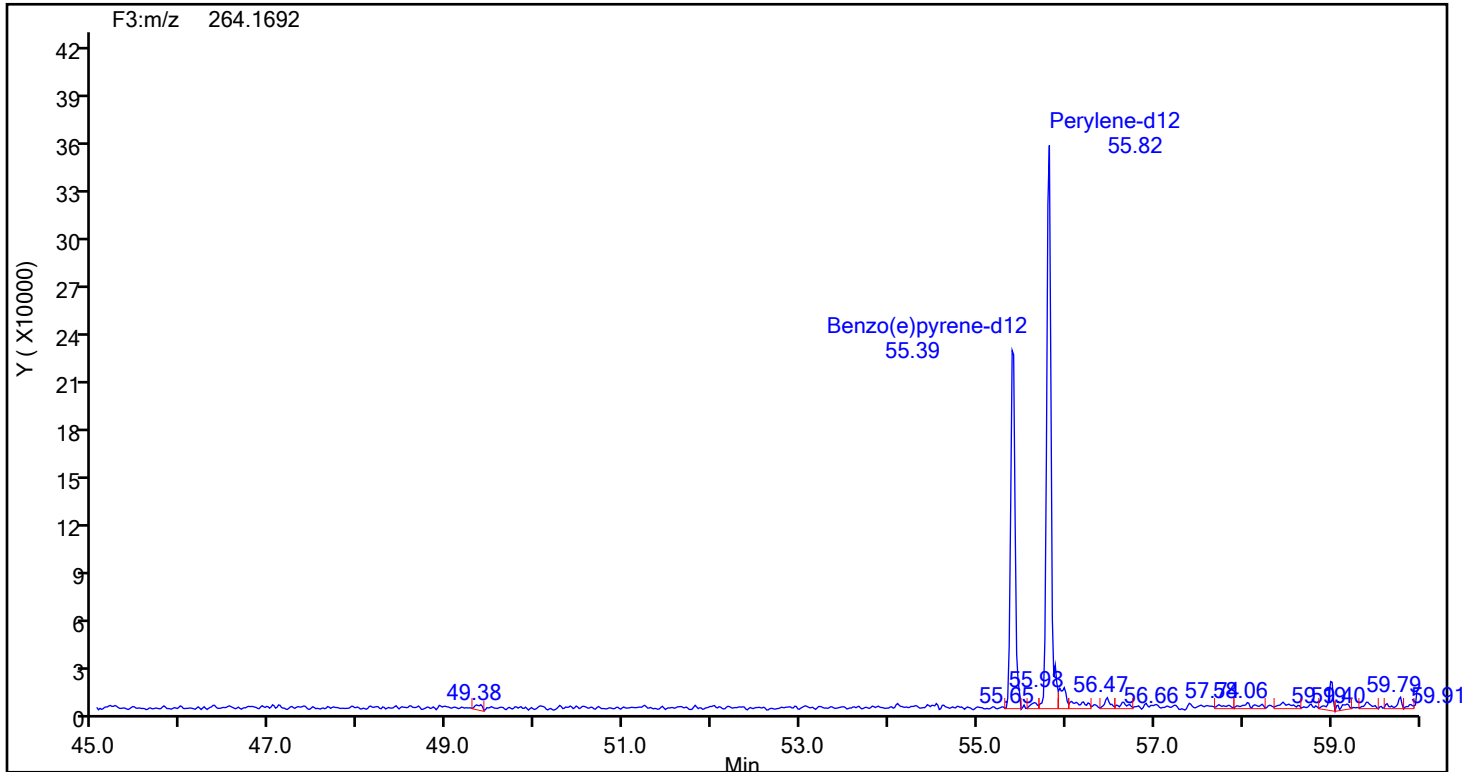
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Perylene



## Perylene Standards



## Eurofins Knoxville

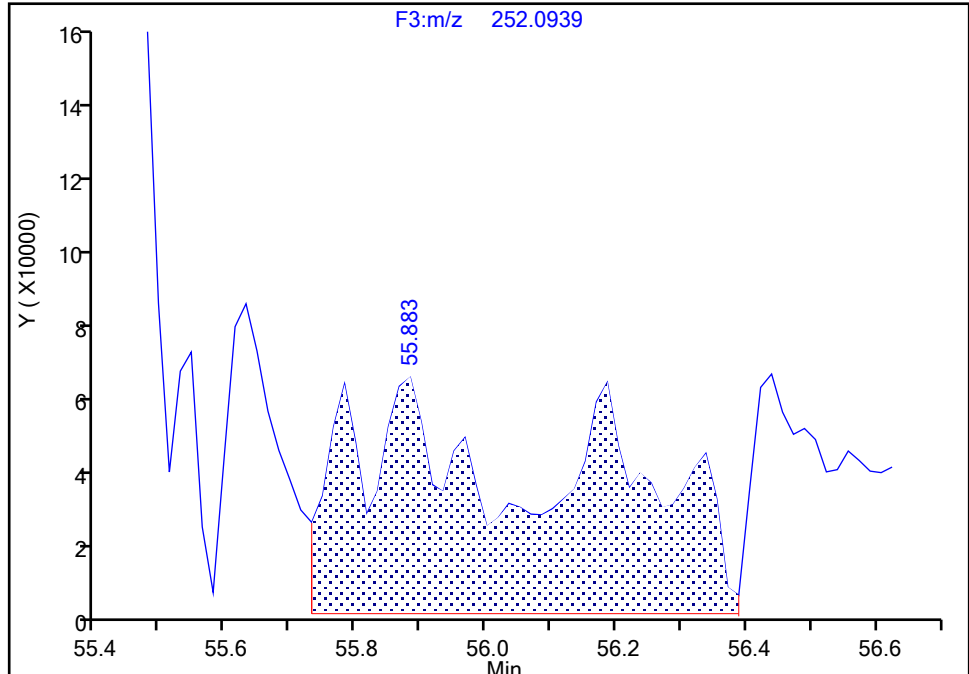
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Perylene, CAS: 198-55-0

Signal: 1

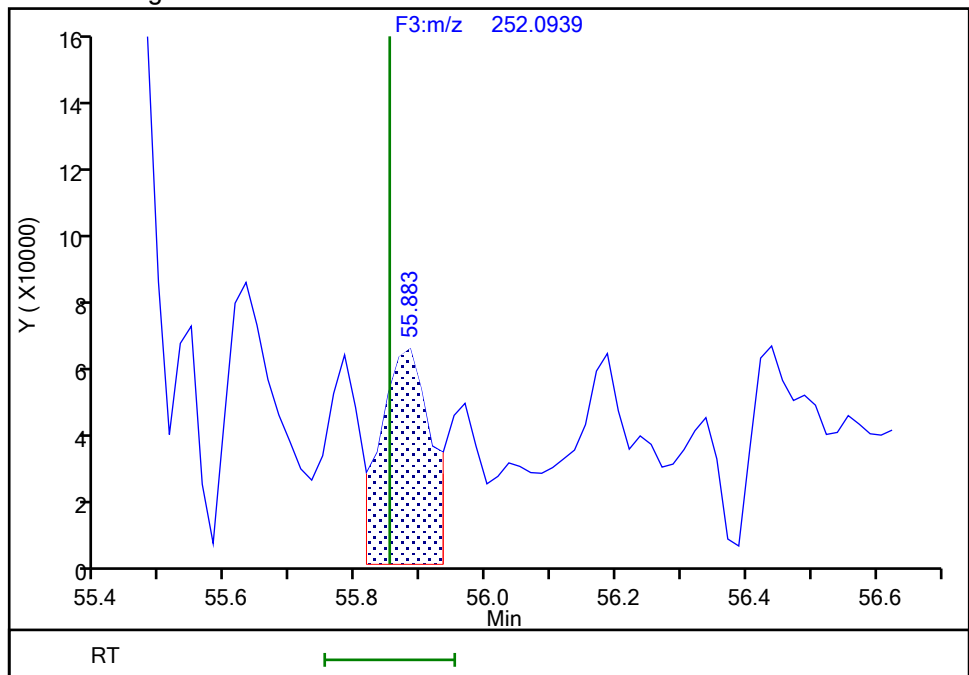
RT: 55.88  
Area: 1421038  
Amount: 4.041124  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.88  
Area: 343860  
Amount: 0.977863  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:20:53 -04:00:00 (UTC)

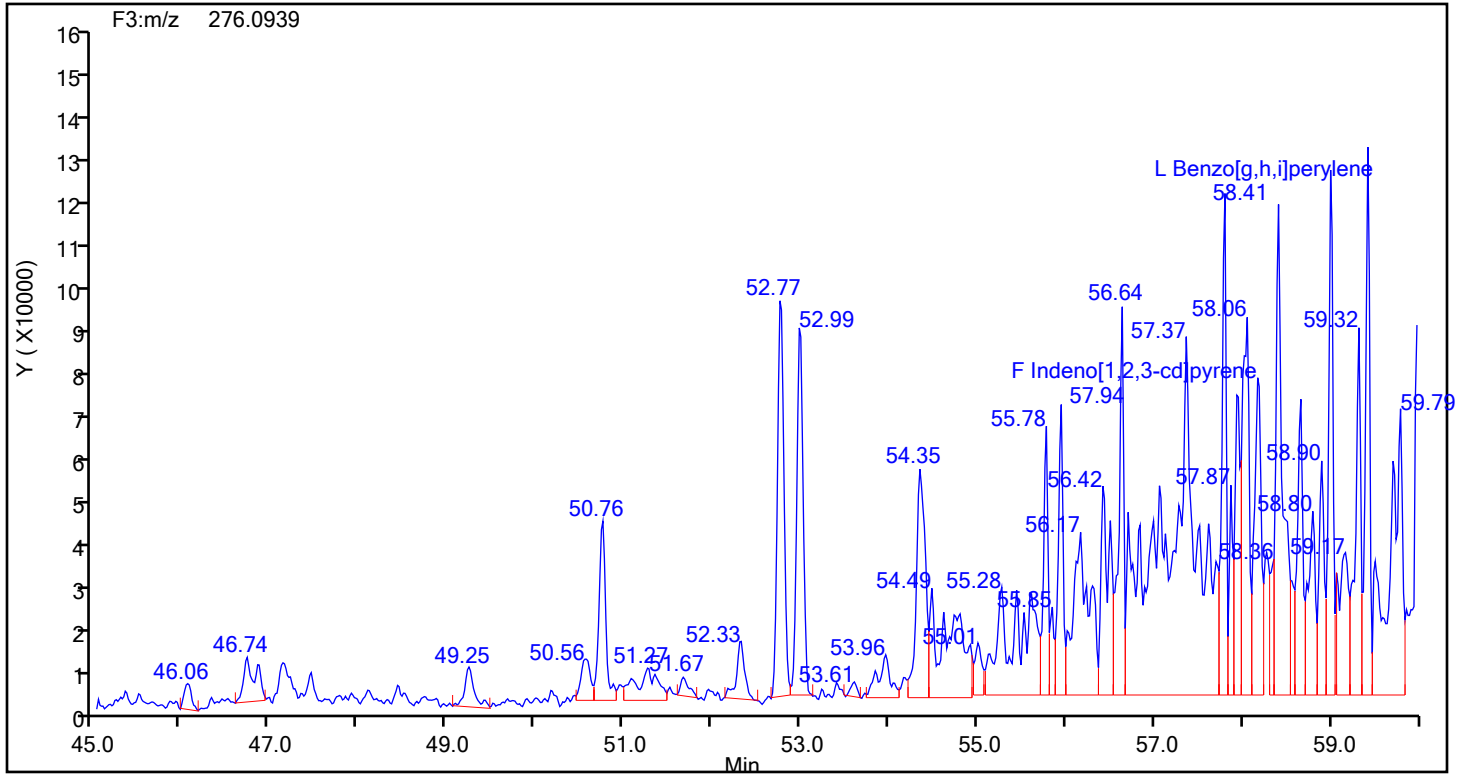
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

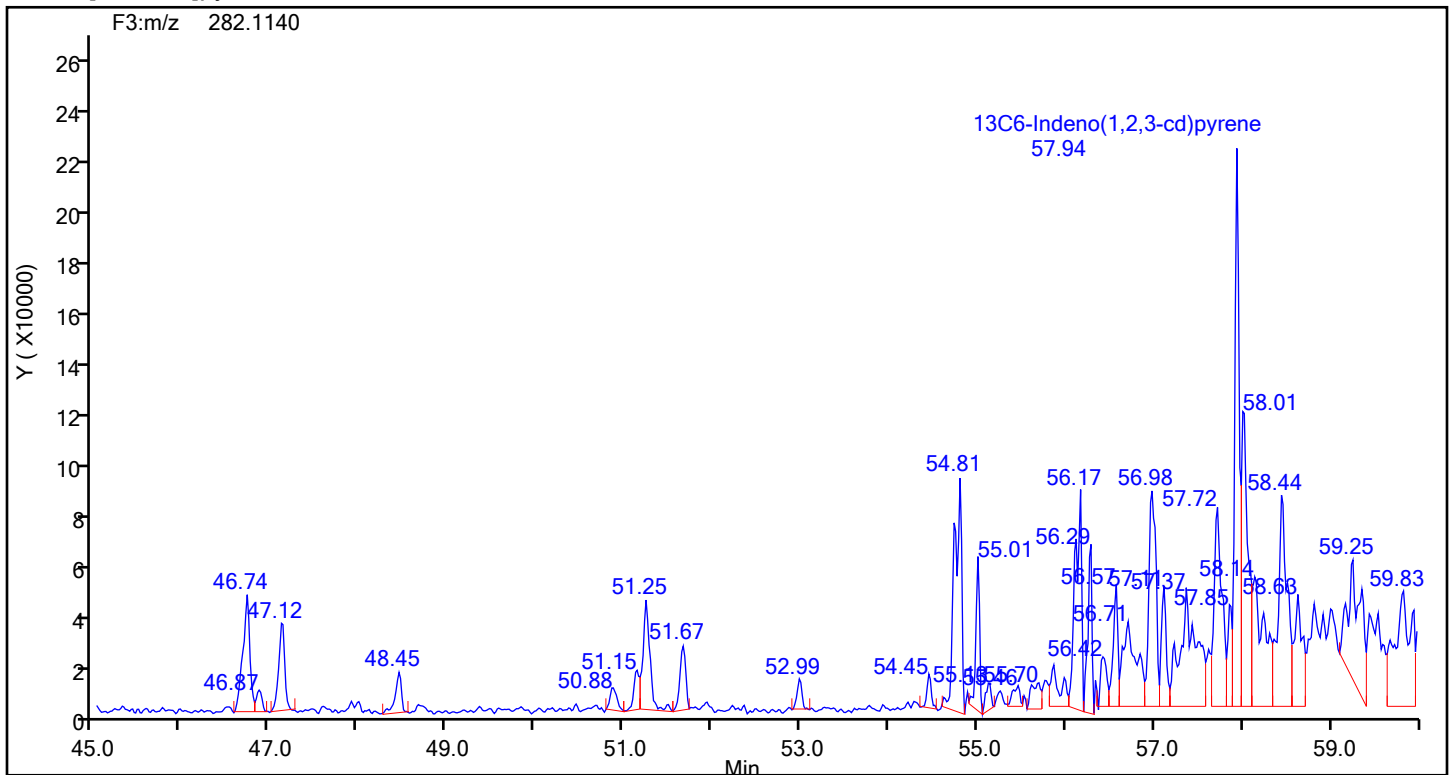
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

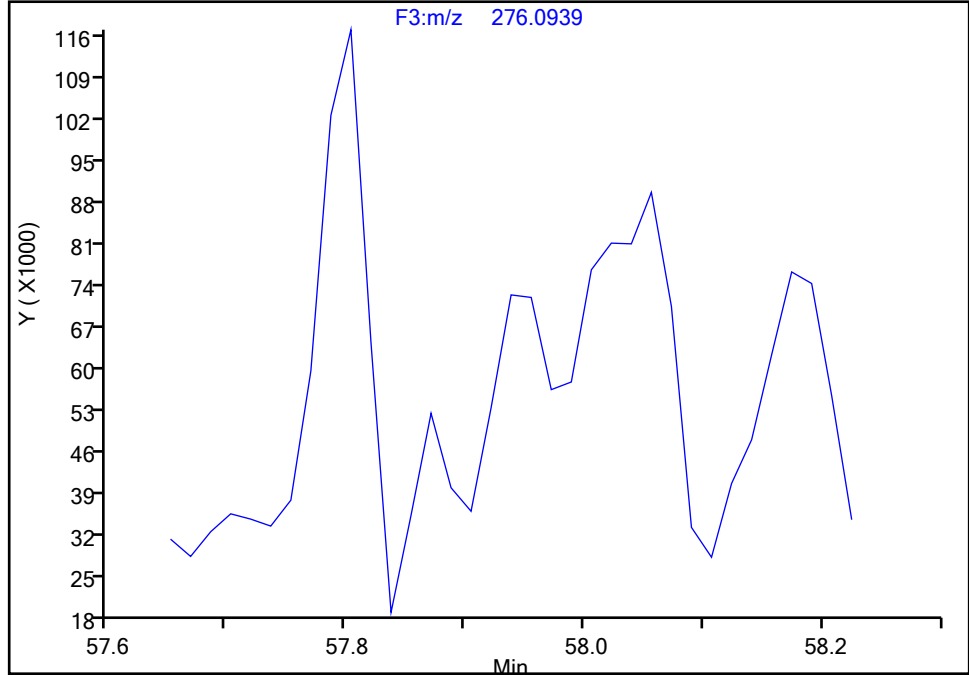
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1\IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

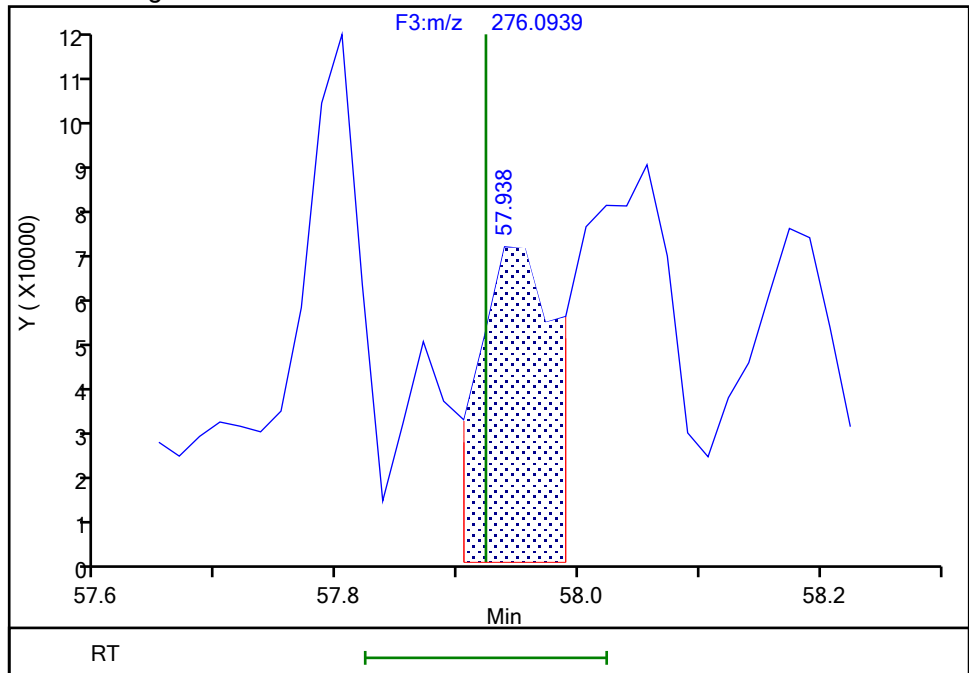
Not Detected  
Expected RT: 57.92

## Processing Integration Results



## Manual Integration Results

RT: 57.94  
Area: 312565  
Amount: 1.666909  
Amount Units: pg/ul



Reviewer: TT6I, 20-Jul-2024 10:20:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

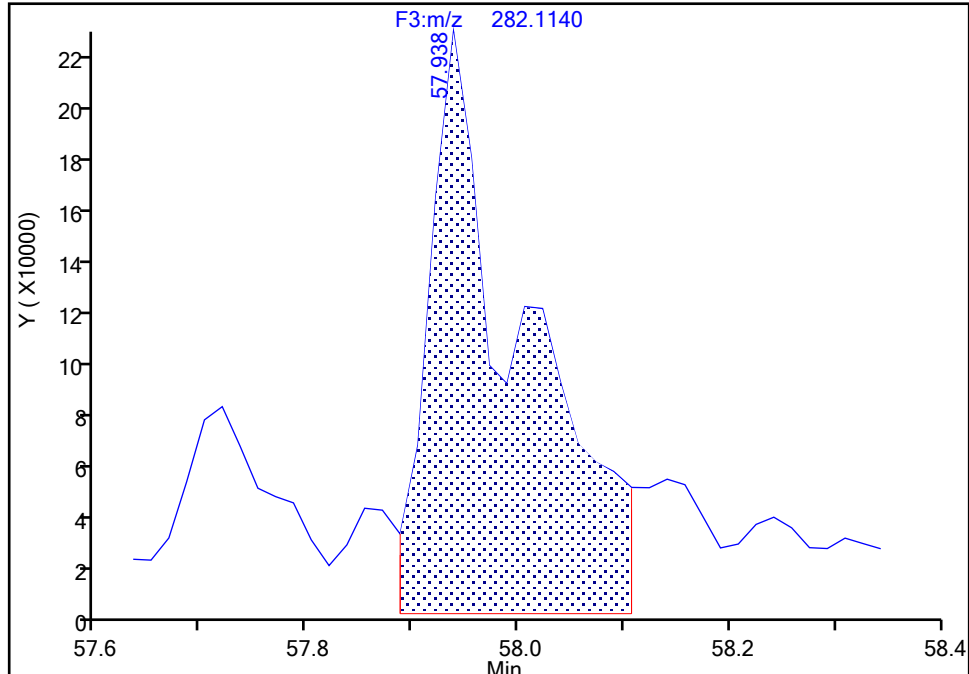
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2**

Signal: 1

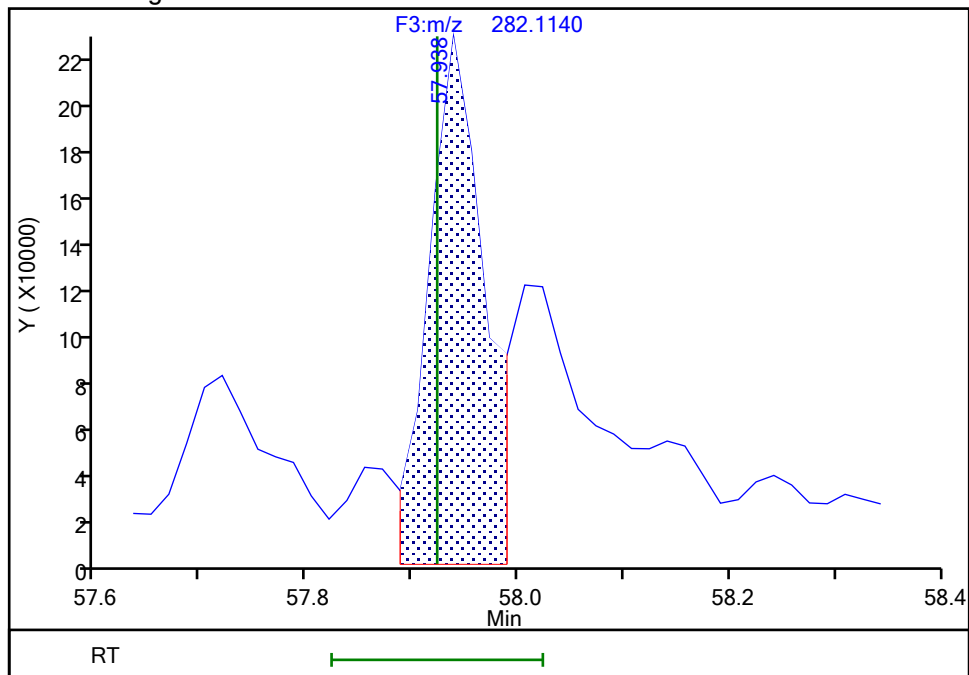
RT: 57.94  
Area: 1342090  
Amount: 4.079268  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.94  
Area: 833428  
Amount: 2.533195  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:20:03 -04:00:00 (UTC)

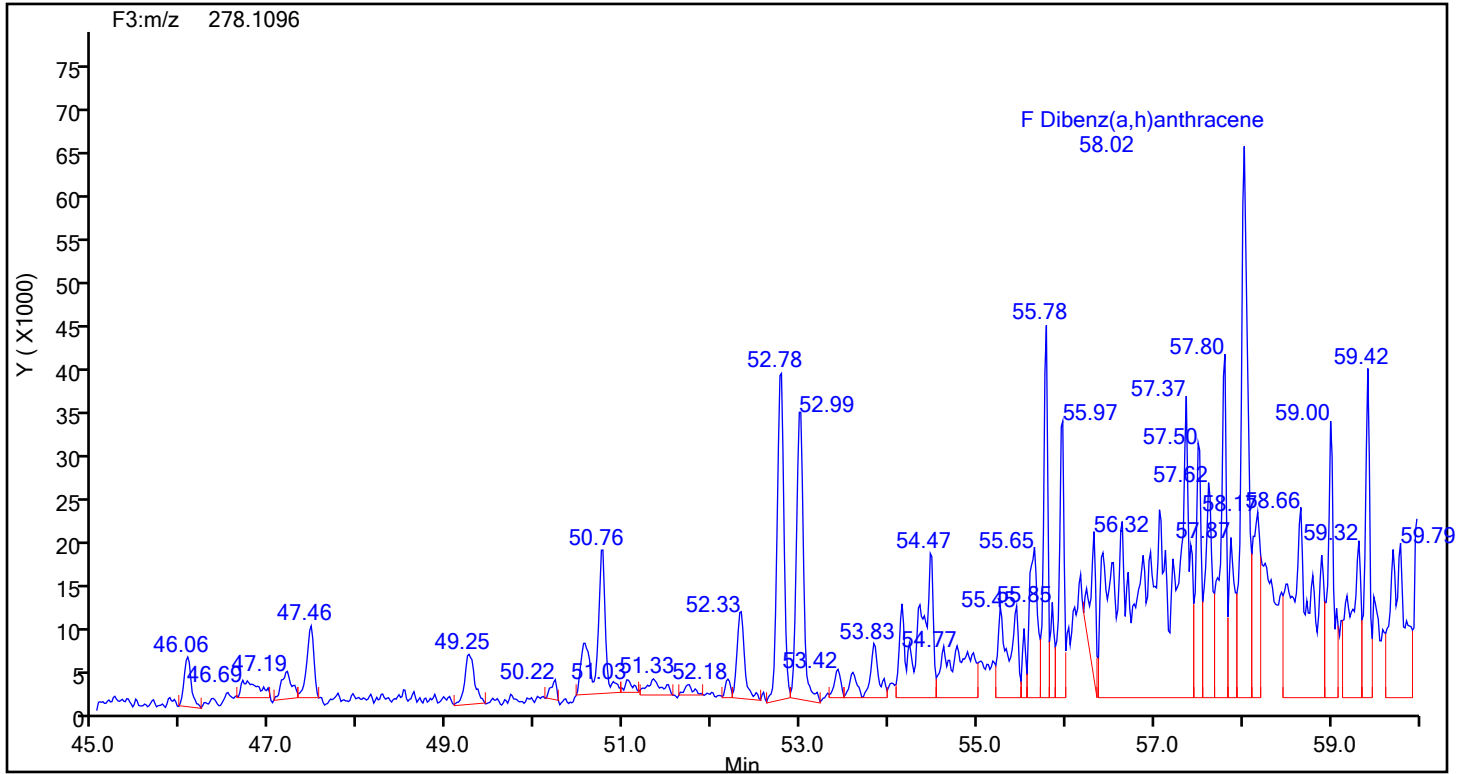
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

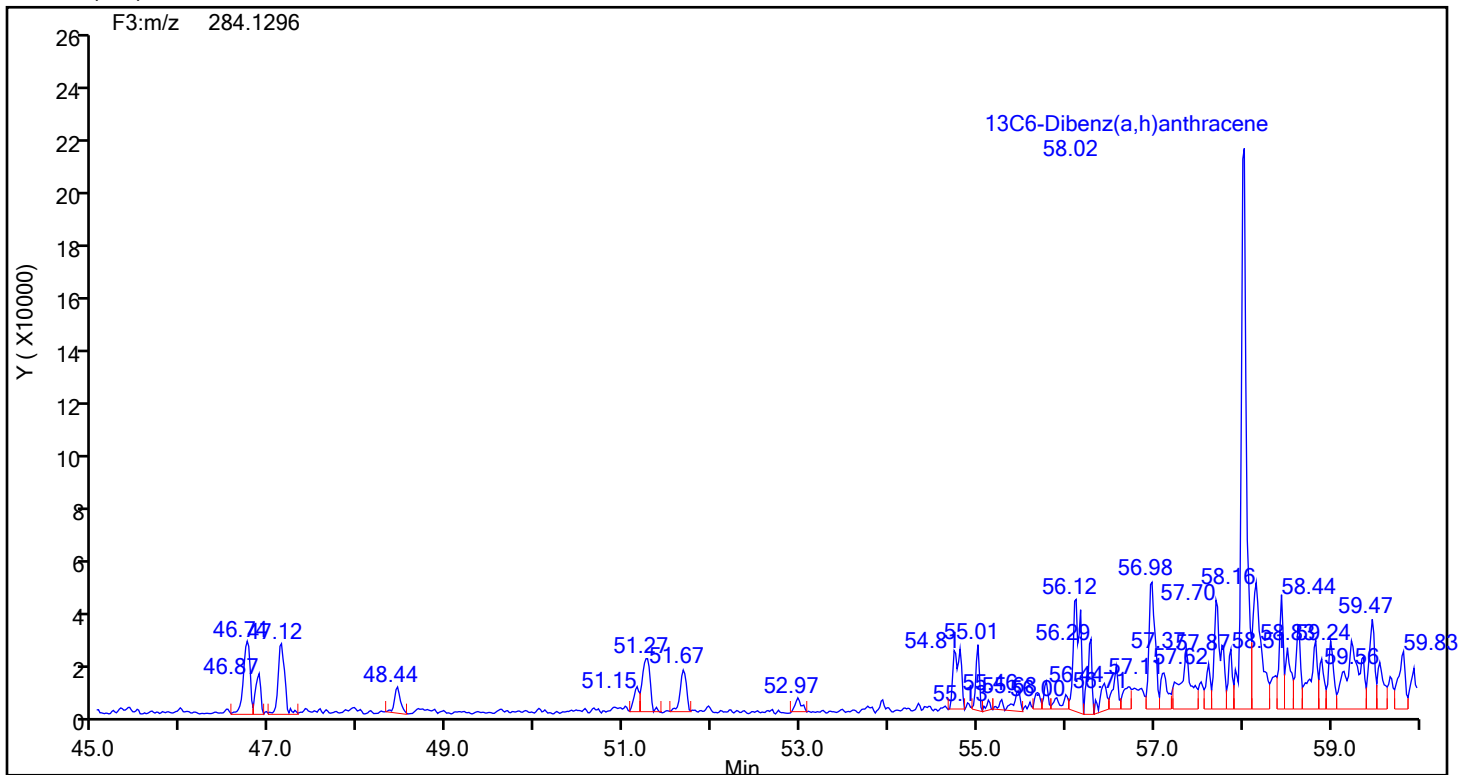
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

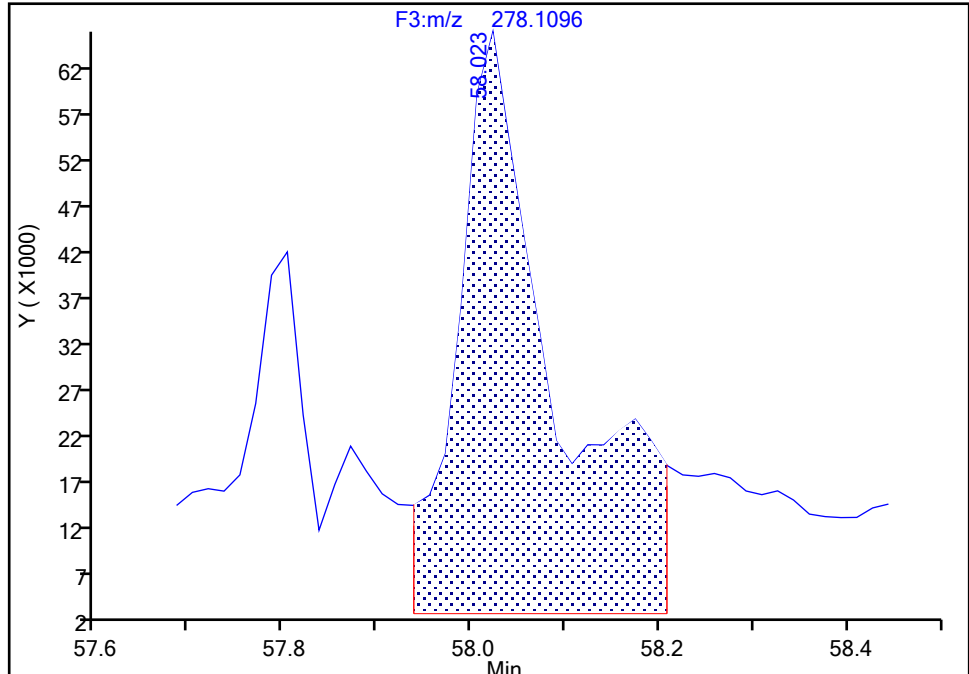
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1\IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

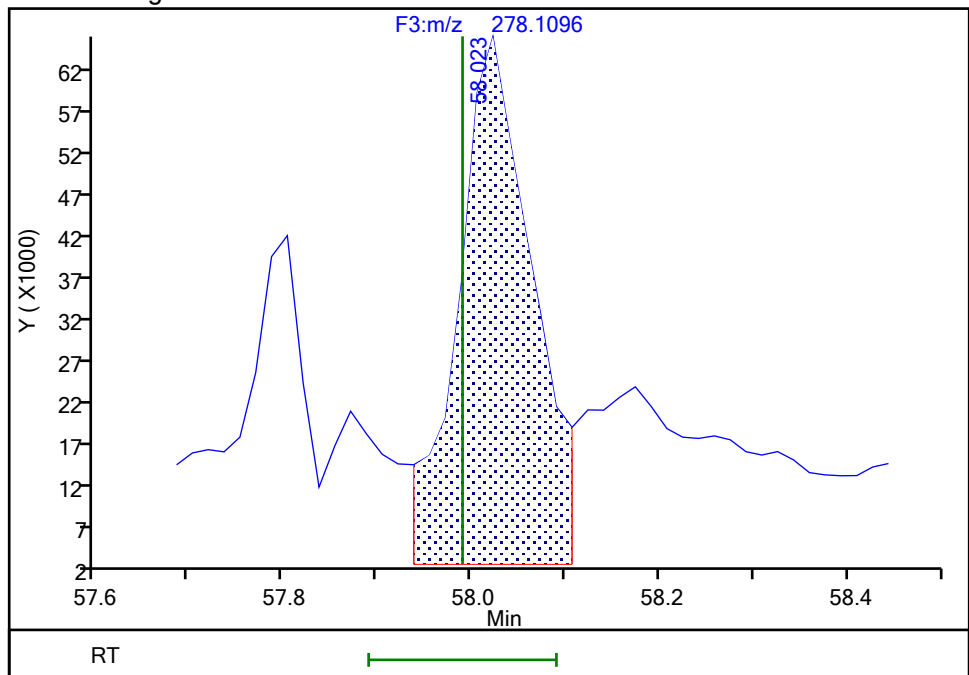
RT: 58.02  
Area: 455052  
Amount: 2.210182  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.02  
Area: 355714  
Amount: 1.727698  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:21:31 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

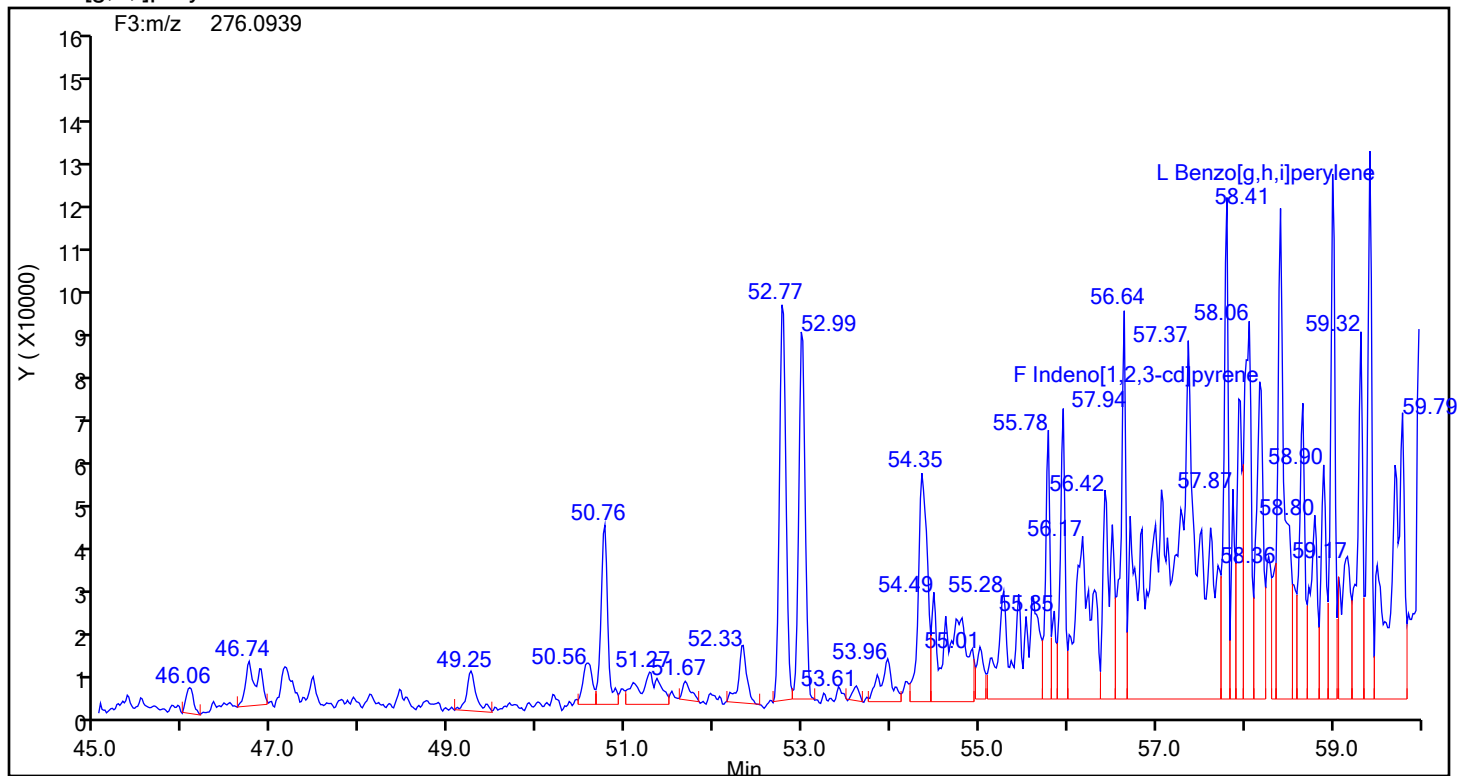
Audit Reason: Incomplete Integration



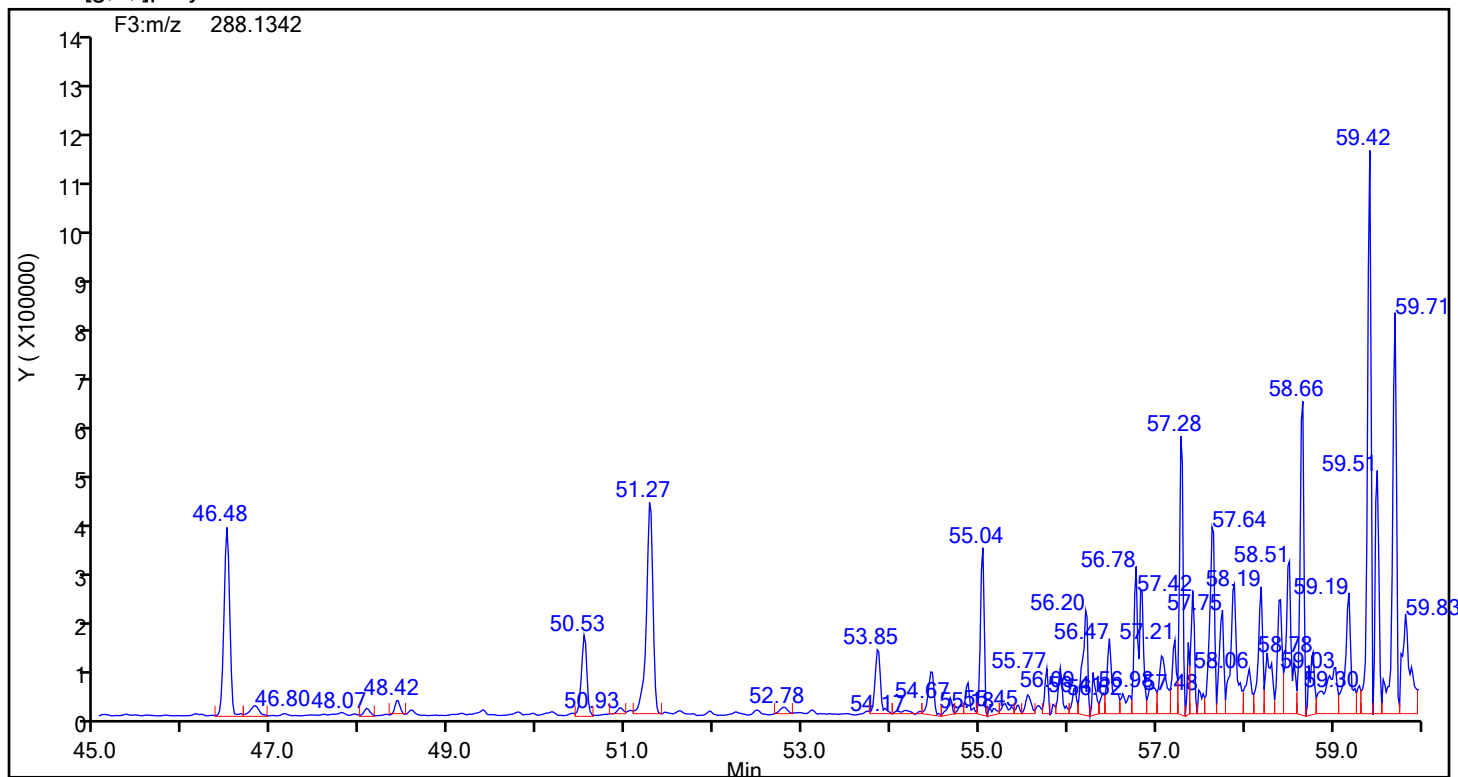
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88945 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



## Eurofins Knoxville

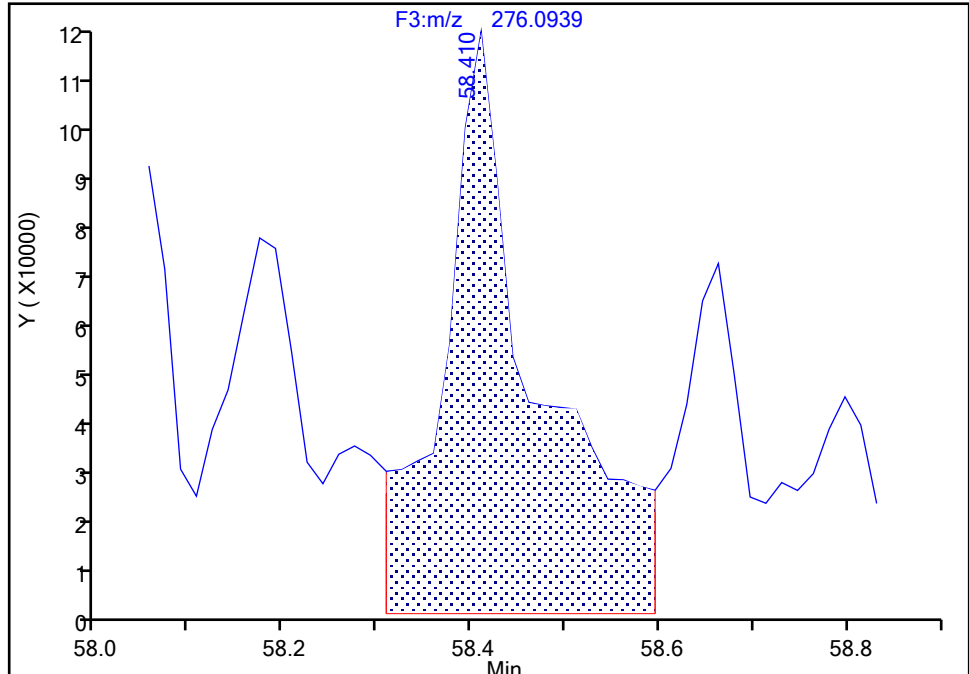
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Injection Date: 19-Jul-2024 03:06:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-6-D Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

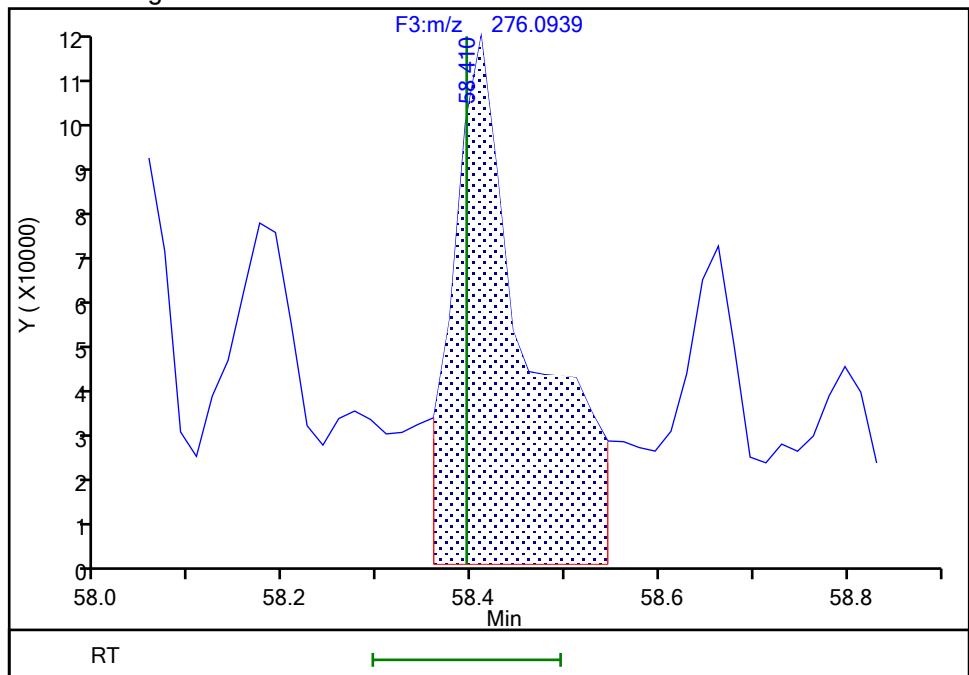
RT: 58.41  
Area: 752177  
Amount: 3.366790  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.41  
Area: 622426  
Amount: 2.786016  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 20-Jul-2024 10:21:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\140-36940-a-6-d\_20240719030234.d  
Lims ID: 140-36940-A-6-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Sample Type: Client  
Inject. Date: 19-Jul-2024 03:06:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 20.0000  
Sample Info:  
Misc. Info.: 140-0033572-008  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 20-Jul-2024 10:22:42 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1689

First Level Reviewer: TT6I

Date: 20-Jul-2024 10:22:42

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.4207	84.15
13C6-Benzo(c)fluorene	66.7	3.49	104.67
13C12-Benzo(j)fluoranthene	66.7	0.7393	22.18

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Client Sample ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED Lab Sample ID: 140-36940-7

Matrix: Air Lab File ID: 140-36940-a-7-d.d

Analysis Method: 23 Date Collected: 05/20/2024 15:30

Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:30

Sample wt/vol: 1(Sample) Date Analyzed: 07/17/2024 06:42

Con. Extract Vol.: 30(mL) Dilution Factor: 10

Injection Volume: 1(uL) GC Column: Rxi-5SilMS 25 ID: 0.25(mm)

% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N

Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low

Analysis Batch No.: 88831 Units: ng/Sample

Preparation Batch No.: 87620 Instrument ID: Excalibur D3PAH DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	14900	B	750	750	3.15
91-57-6	2-Methylnaphthalene	1970	B	750	750	0.414
208-96-8	Acenaphthylene	14.2	J B	30.0	30.0	1.80
83-32-9	Acenaphthene	41.1	J B	300	300	2.05
86-73-7	Fluorene	114	J B	300	300	0.770
85-01-8	Phenanthrene	624	B	60.0	60.0	0.770
120-12-7	Anthracene	23.4	J	300	300	0.807
206-44-0	Fluoranthene	62.8	B	60.0	60.0	0.342
129-00-0	Pyrene	35.6	J B	60.0	60.0	0.397
56-55-3	Benzo[a]anthracene	ND		60.0	60.0	24.3
218-01-9	Chrysene	617	B	60.0	60.0	24.6
205-99-2	Benzo[b]fluoranthene	22.6	J B	300	300	0.345
207-08-9	Benzo[k]fluoranthene	4.31	J B	60.0	60.0	0.337
192-97-2	Benzo[e]pyrene	34.6	J B	60.0	60.0	0.649
50-32-8	Benzo[a]pyrene	12.0	J	30.0	30.0	0.344
198-55-0	Perylene	71.7	B	30.0	30.0	0.360
193-39-5	Indeno[1,2,3-cd]pyrene	120	B	30.0	30.0	1.06
53-70-3	Dibenz(a,h)anthracene	ND		60.0	60.0	0.604
191-24-2	Benzo[g,h,i]perylene	78.2	B	60.0	60.0	0.361

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>7-COMBINED</u>	Lab Sample ID: <u>140-36940-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-7-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/20/2024 15:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/17/2024 06:42</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88831</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	77		20-130
STL03357	13C6-2-Methylnaphthalene	75		20-130
189811-56-1	13C6-Acenaphthylene	84		20-130
189811-57-2	13C6-Acenaphthene	89		20-130
STL00616	13C6-Fluorene	89		20-130
1397194-60-3	13C6-Fluoranthrene	95		20-130
1397214-90-2	13C3-Pyrene	82		20-130
917378-11-1	13C6-Benzo (a) anthracene	78		20-130
1397177-72-8	13C6-Chrysene	76		20-130
STL03358	13C6-Benzo (b) fluoranthene	40		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	40		20-130
STL03382	13C4-Benzo (e) pyrene	26		20-130
STL03359	13C4-Benzo (a) pyrene	54		20-130
1520-96-3	Perylene-d12	37		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	14	*5-	20-130
STL03360	13C6-Dibenz (a,h) anthracene	10	*5-	20-130
350820-11-0	13C12-Benzo (ghi) perylene	42		20-130
189811-60-7	13C6-Anthracene	71		20-130
1189955-53-0	13C6-Phenanthrene	74		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Lims ID: 140-36940-A-7-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 06:42:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033530-010  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 17-Jul-2024 16:22:42 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 16:06:06

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:23	3505450		3.3746	7.726	7.726	0.005158	0.005158	77.26	
Naphthalene	11:21	449108534		1.2893	993.7	993.7	0.2098	0.2098		
D 13C6-2-Methylnaphthalene	13:45	1615247		1.6031	7.494	7.494	0.0159	0.0159	74.94	
2-Methylnaphthalene	13:45	27124732		1.2786	131.3	131.3	0.0276	0.0276		
D 13C6-Acenaphthylene	16:36	1867239		1.6520	8.406	8.406	0.003711	0.003711	84.06	
Acenaphthylene	16:36	261270		2.3661	0.9468	0.9468	0.1202	0.1202		M
* Acenaphthene-d10	17:11	672306		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:18	1166255		0.9792	8.858	8.858	0.004696	0.004696	88.58	
Acenaphthene	17:18	405804		1.2697	2.741	2.741	0.1368	0.1368		M
D 13C6-Fluorene	19:34	1070461		0.8898	8.947	8.947	0.002018	0.002018	89.47	
Fluorene	19:34	1017861		1.2532	7.588	7.588	0.0513	0.0513		
D 13C6-Phenanthrene	24:57	1811558		0.5724	7.414	7.414	0.001034	0.001034	74.14	
Phenanthrene	24:58	8316662		1.1044	41.6	41.6	0.0514	0.0514		
\$ Anthracin-d10	25:10	112687		0.4257	0.6201	0.6201	0.000444	0.000444	62.01	
D 13C6-Anthracene	25:17	1366653		0.4523	7.078	7.078	0.001309	0.001309	70.78	
Anthracene	25:18	290152		1.3586	1.563	1.563	0.0538	0.0538		
D 13C6-Fluoranthrene	33:39	4874825		1.1994	9.522	9.522	0.0209	0.0209	95.22	
Fluoranthrene	33:39	2350088		1.1513	4.187	4.187	0.0228	0.0228		
* Pyrene-d10	35:11	2134220		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:19	4737081		1.3512	8.213	8.213	0.0781	0.0781	82.13	
Pyrene	35:20	1196273		1.0652	2.371	2.371	0.0265	0.0265		
\$ 13C6-Benzo(c)fluorene	39:01	1529299		0.5136	6.976	6.976	0.0243	0.0243	105	
D 13C6-Benzo(a)anthracene	45:50	4259959		1.5189	7.761	7.761	0.009404	0.009404	77.61	
Benzo[a]anthracene	45:47	310800		0.9739	0.7492	0.7492	1.617	1.617		M
D 13C6-Chrysene	46:07	4470658		1.6287	7.596	7.596	0.008770	0.008770	75.96	
Chrysene	46:03	18038390		0.9815	41.1	41.1	1.637	1.637		M
D 13C6-Benzo(b)fluoranthene	54:29	2109316		1.4621	3.992	3.992	0.004300	0.004300	39.92	
Benzo[b]fluoranthene	54:29	357598		1.1249	1.507	1.507	0.0230	0.0230		
\$ 13C12-Benzo(j)fluoranthene	54:30	825602		1.3558	1.685	1.685	0.006577	0.006577	25.28	M
D 13C6-Benzo(k)fluoranthene	54:37	2507174		1.7507	3.963	3.963	0.003591	0.003591	39.63	
Benzo[k]fluoranthene	54:37	81259		1.1271	0.2876	0.2876	0.0225	0.0225		
* Benzo(e)pyrene-d12	55:22	1806892		5.7E+04	5.000	5.000				
D 13C4-Benzo(e)pyrene	55:26	1528884		1.6368	2.585	2.585	0.0193	0.0193	25.85	Ma
Benzo[e]pyrene	55:26	352785		1.0013	2.305	2.305	0.0433	0.0433		M

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:36	3011752		1.5508	5.374	5.374	0.0204	0.0204	53.74	M
Benzo[a]pyrene	55:36	267189		1.1130	0.7971	0.7971	0.0229	0.0229		M
D Perylene-d12	55:47	1613449		1.1917	3.747	3.747	0.005851	0.005851	37.47	
Perylene	55:47	1103878		1.4307	4.782	4.782	0.0240	0.0240		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:53	506678		1.0218	1.372	1.372	0.0155	0.0155	13.72	M
Indeno[1,2,3-cd]pyrene	57:50	457753		1.1249	8.031	8.031	0.0708	0.0708		
D 13C6-Dibenz(a,h)anthracene	57:58	371118		1.0553	0.9732	0.9732	0.0122	0.0122	9.73	
Dibenz(a,h)anthracene	57:58						0.0403	0.0403		
D 13C12-Benzo(ghi)perylene	58:21	1912077		1.2749	4.150	4.150	0.0228	0.0228	41.50	
Benzo[g,h,i]perylene	58:22	1279406		1.2838	5.212	5.212	0.0241	0.0241		

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Lims ID: 140-36940-A-7-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 06:42:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033530-010  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 17-Jul-2024 16:22:42 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 16:06:06

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:23	11:23	-1	0.662	3505450	1212004	318	795	3811		
Naphthalene											
128.0626	11:21	11:23	-3	0.998	449108534	86338233	13112	32780	6585		
13C6-2-Methylnaphthalene											
148.0984	13:45	13:45	-1	0.801	1615247	762087	465	1162	1639		
2-Methylnaphthalene											
142.0783	13:45	13:46	-1	1.000	27124732	13192719	1075	2687	12272		
13C6-Acenaphthylene											
158.0828	16:36	16:36	-1	0.966	1867239	638616	112	280	5702		
Acenaphthylene											
152.0626	16:36	16:36	-1	1.000	261270	85772	4754	11885	18		M
Acenaphthene-d10											
164.1404	17:11	17:11	-1		672306	228366	31	77	7367		M
13C6-Acenaphthene											
160.0984	17:18	17:17	-1	1.007	1166255	417847	84	210	4974		
Acenaphthene											
154.0783	17:18	17:20	-1	1.001	405804	141257	2903	7257	49		M
13C6-Fluorene											
172.0984	19:34	19:33	-1	1.139	1070461	315903	33	82	9573		
Fluorene											
166.0783	19:34	19:36	-1	1.000	1017861	296669	813	2032	365		
13C6-Phenanthrene											
184.0984	24:57	24:56	1	0.709	1811558	360843	19	47	18992		
Phenanthrene											
178.0783	24:58	24:54	2	1.000	8316662	1583706	819	2047	1934		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:10	25:08	1	0.715	112687	24781	6	15	4130		
13C6-Anthracene											
184.0984	25:17	25:15	1	0.719	1366653	280041	19	47	14739		
Anthracene											
178.0783	25:18	25:15	2	1.000	290152	43702	819	2047	53		
13C6-Fluoranthrene											
208.0984	33:39	33:42	1	0.956	4874825	934146	795	1987	1175		
Fluoranthene											
202.0783	33:39	33:39	0	1.000	2350088	458250	982	2455	467		
Pyrene-d10											
212.1404	35:11	35:11	0		2134220	396853	79	197	5023		
13C3-Pyrene											
205.0883	35:19	35:24	0	1.004	4737081	869858	3352	8380	260		
Pyrene											
202.0783	35:20	35:19	1	1.000	1196273	210170	982	2455	214		
13C6-Benzo(c)fluorene											
222.1134	39:01	39:01	0	0.705	1529299	273138	396	990	690		
13C6-Benzo(a)anthracene											
234.1140	45:50	45:49	0	1.303	4259959	726969	641	1602	1134		
Benzo[a]anthracene											
228.0939	45:47	45:47	-3	0.999	310800	51929	45783	114457	1		M
13C6-Chrysene											
234.1140	46:07	46:06	0	1.311	4470658	712222	641	1602	1111		
Chrysene											
228.0939	46:03	46:03	-4	0.999	18038390	3059031	45783	114457	67		M
13C6-Benzo(b)fluoranthene											
258.1140	54:29	54:28	0	0.984	2109316	675619	282	705	2396		
Benzo[b]fluoranthene											
252.0939	54:29	54:31	0	1.000	357598	87118	700	1750	124		
13C12-Benzo(j)fluoranthene											
264.1336	54:30	54:30	-1	0.984	825602	232559	400	1000	581		M
13C6-Benzo(k)fluoranthene											
258.1140	54:37	54:35	1	0.986	2507174	691368	282	705	2452		
Benzo[k]fluoranthene											
252.0939	54:37	54:40	0	1.000	81259	24920	700	1750	36		
Benzo(e)pyrene-d12											
264.1692	55:22	55:22	0		1806892	560745	313	782	1792		
13C4-Benzo(e)pyrene											
256.1073	55:26	55:26	0	1.001	1528884	404006	1418	3545	285		Ma
Benzo[e]pyrene											
252.0939	55:26	55:26	-1	1.000	352785	65518	700	1750	94		M
13C4-Benzo(a)pyrene											
256.1073	55:36	55:43	0	1.004	3011752	685890	1418	3545	484		M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:36	55:43	0	1.000	267189	43053	700	1750	62		M
Perylene-d12											
264.1692	55:47	55:44	1	1.007	1613449	509139	313	782	1627		
Perylene											M
252.0939	55:47	55:50	-3	1.000	1103878	161605	700	1750	231		M
13C6-Indeno(1,2,3-cd)pyrene											M
282.1140	57:53	57:53	-1	1.045	506678	163475	710	1775	230		M
Indeno[1,2,3-cd]pyrene											
276.0939	57:50	57:58	-4	0.999	457753	67644	521	1302	130		
13C6-Dibenz(a,h)anthracene											
284.1296	57:58	57:58	0	1.047	371118	104675	576	1440	182		
Dibenz(a,h)anthracene											
278.1096	57:58						191	477			
13C12-Benzo(ghi)perylene											
288.1342	58:21	58:20	0	1.054	1912077	420987	1305	3262	323		
Benzo[g,h,i]perylene											
276.0939	58:22	58:25	1	1.000	1279406	227174	521	1302	436		

### QC Flag Legend

Processing Flags

Review Flags

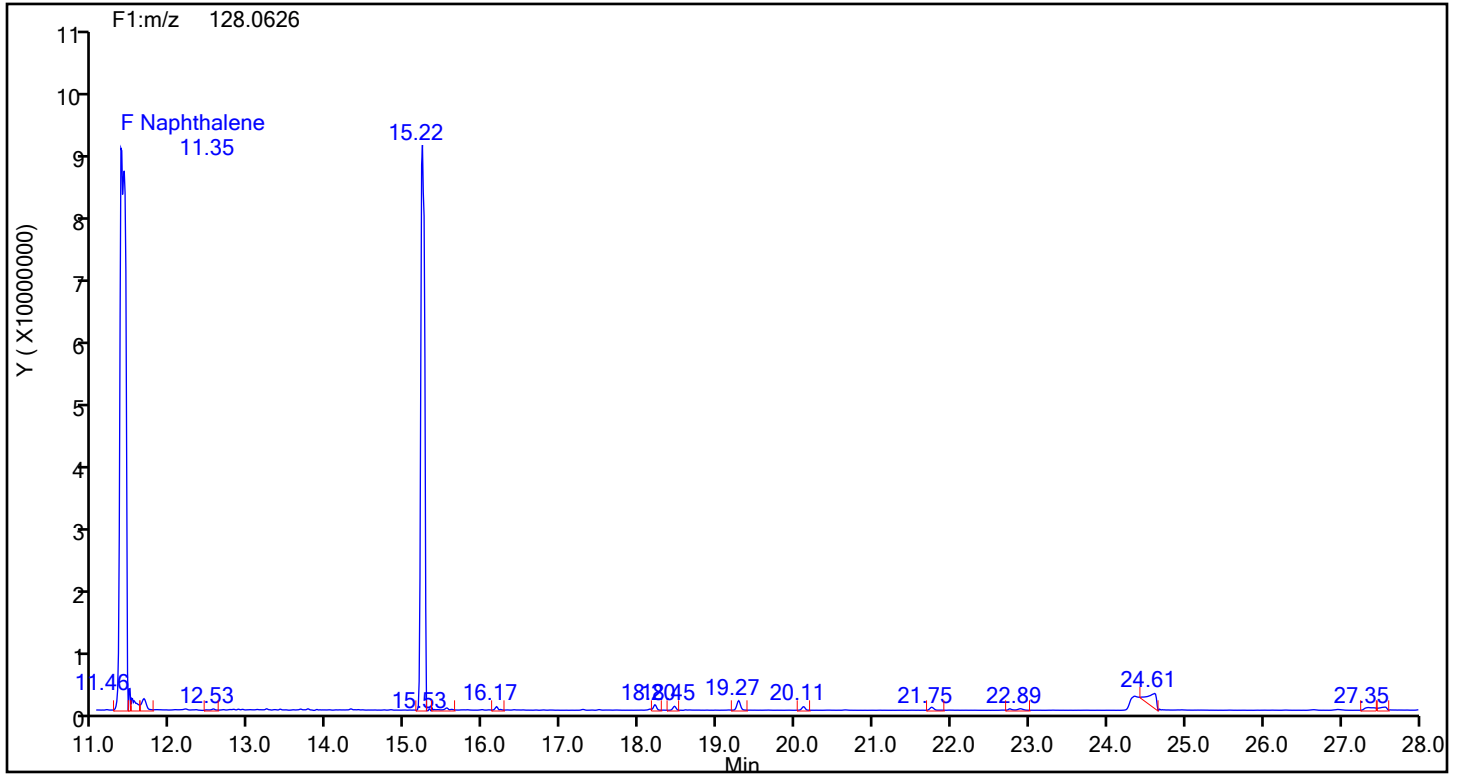
M - Manually Integrated

a - User Assigned ID

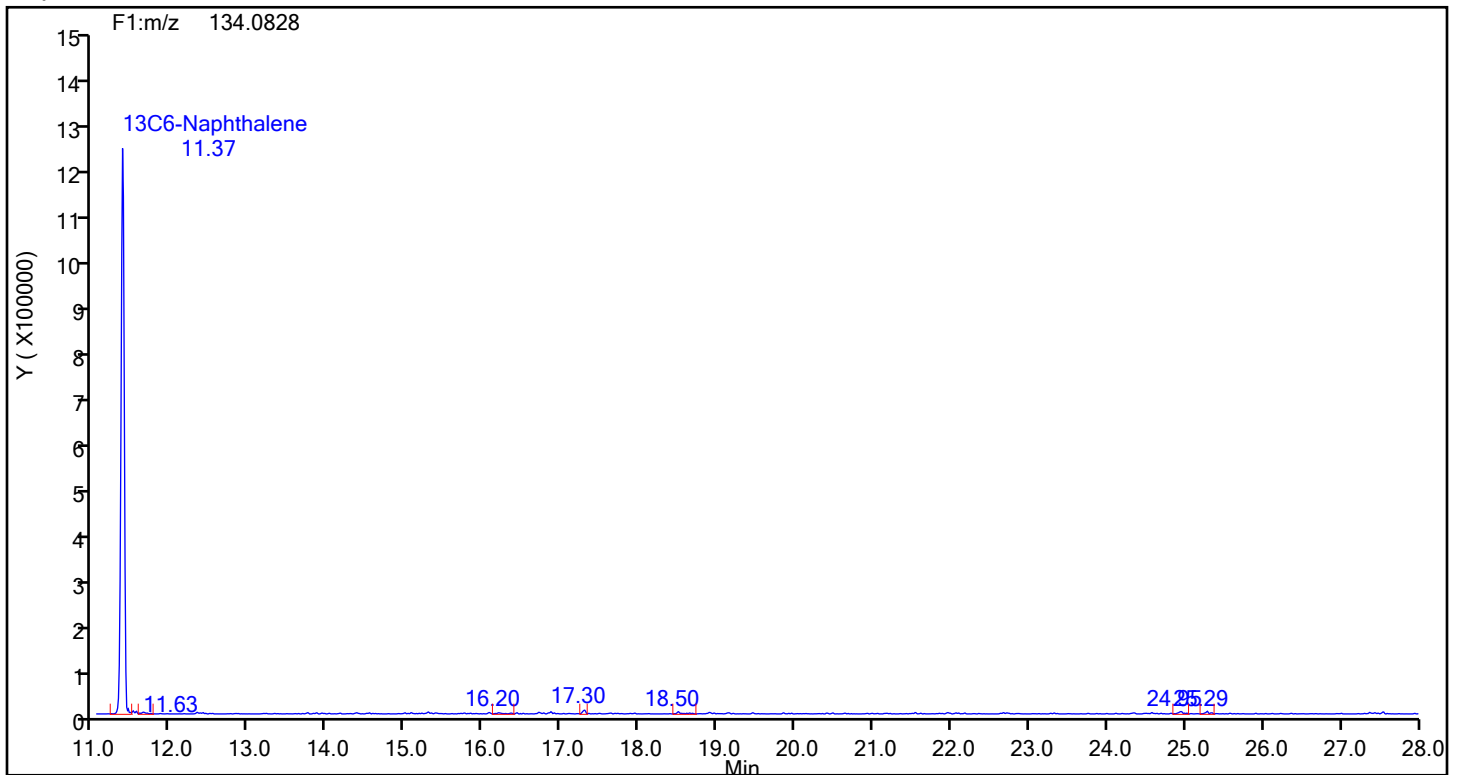
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



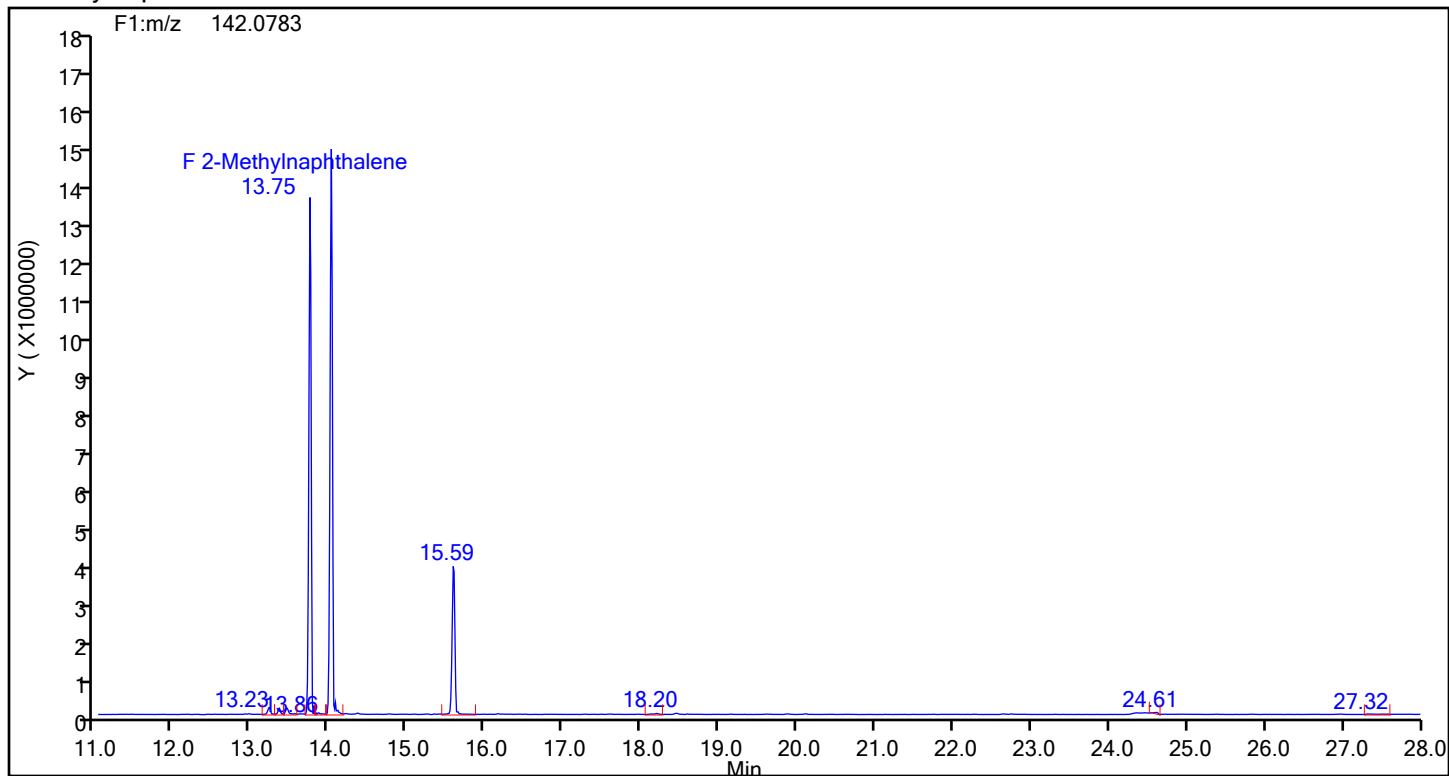
## Naphthalene Standards



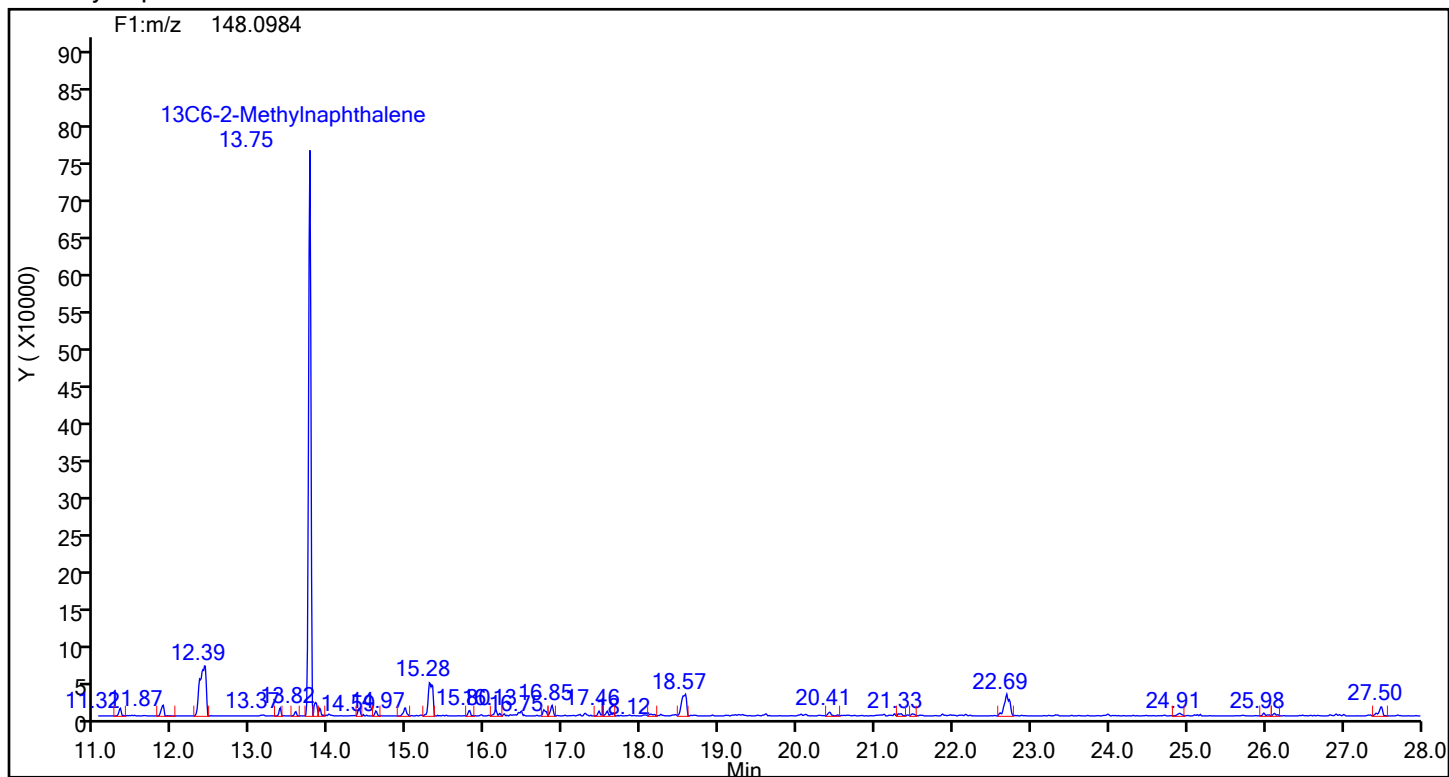
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



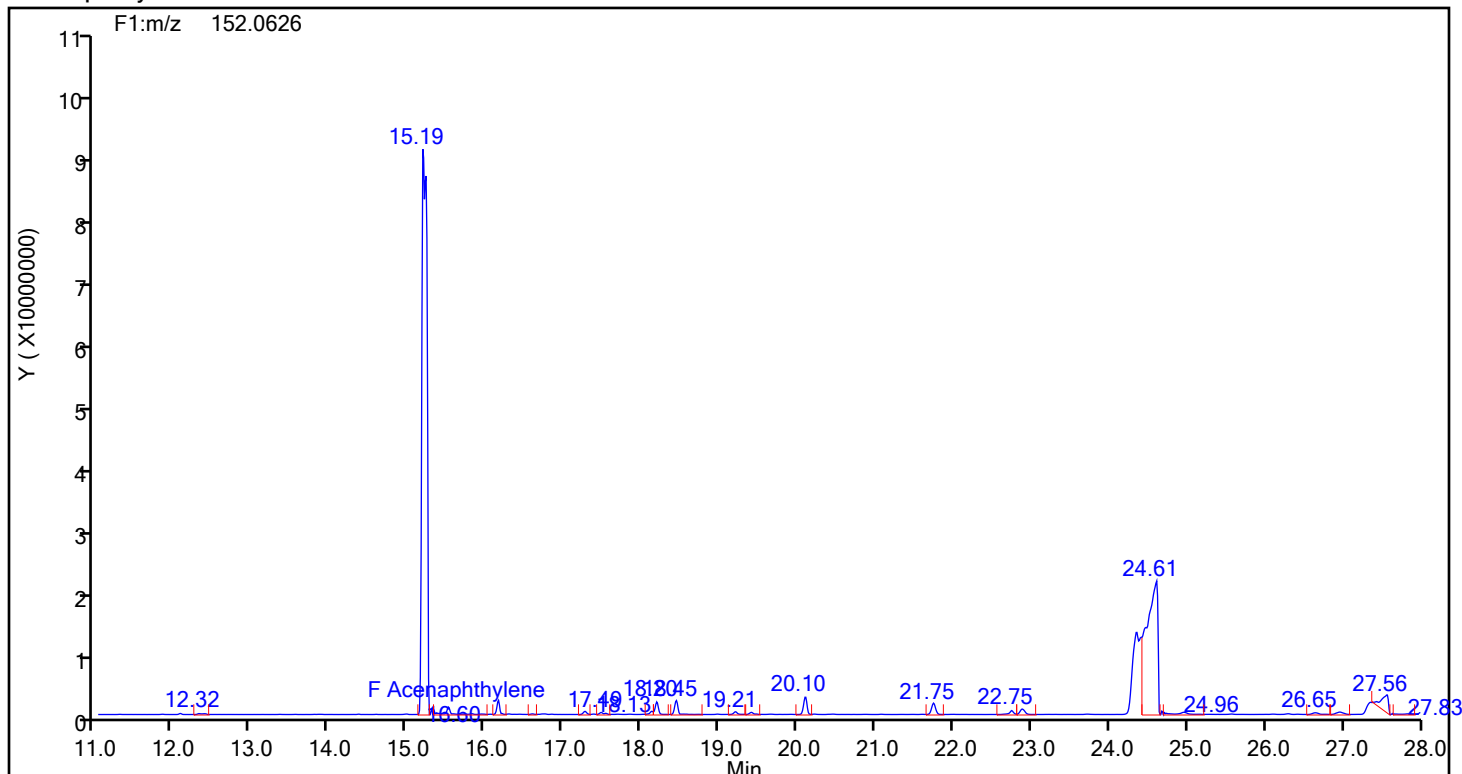
## 2-Methylnaphthalene Standards



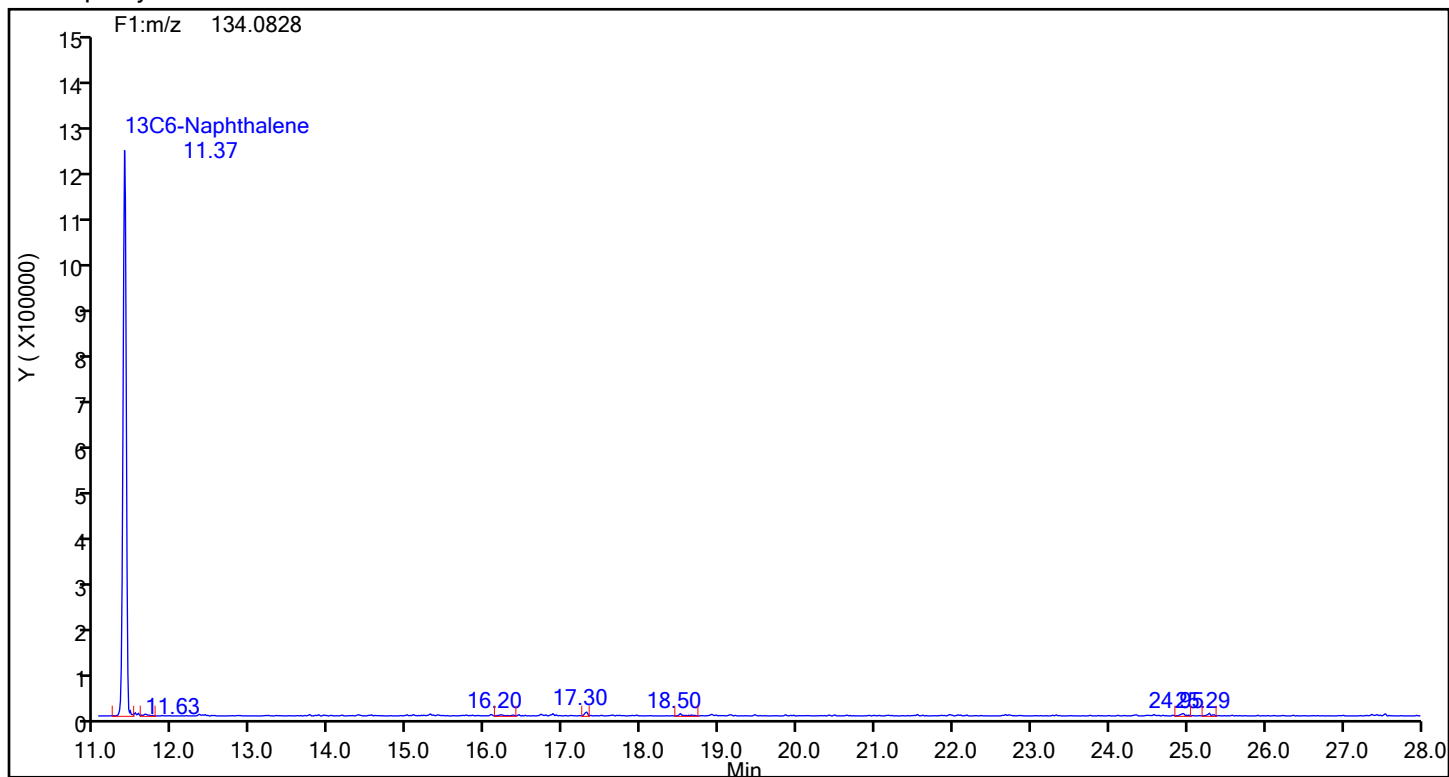
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



## Acenaphthylene Standards



## Eurofins Knoxville

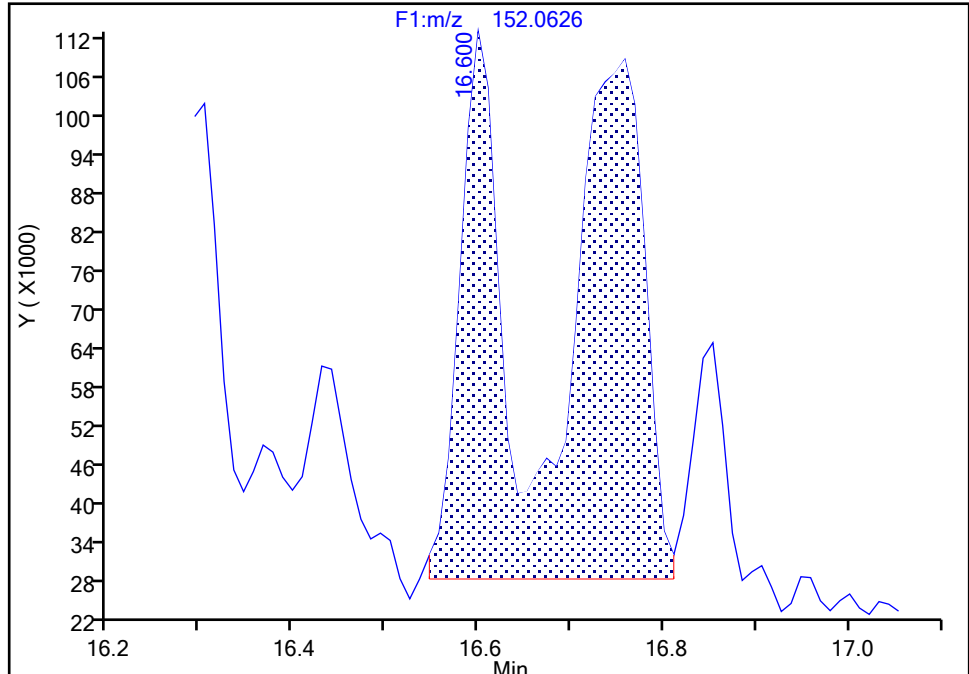
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

## Acenaphthylene, CAS: 208-96-8

Signal: 1

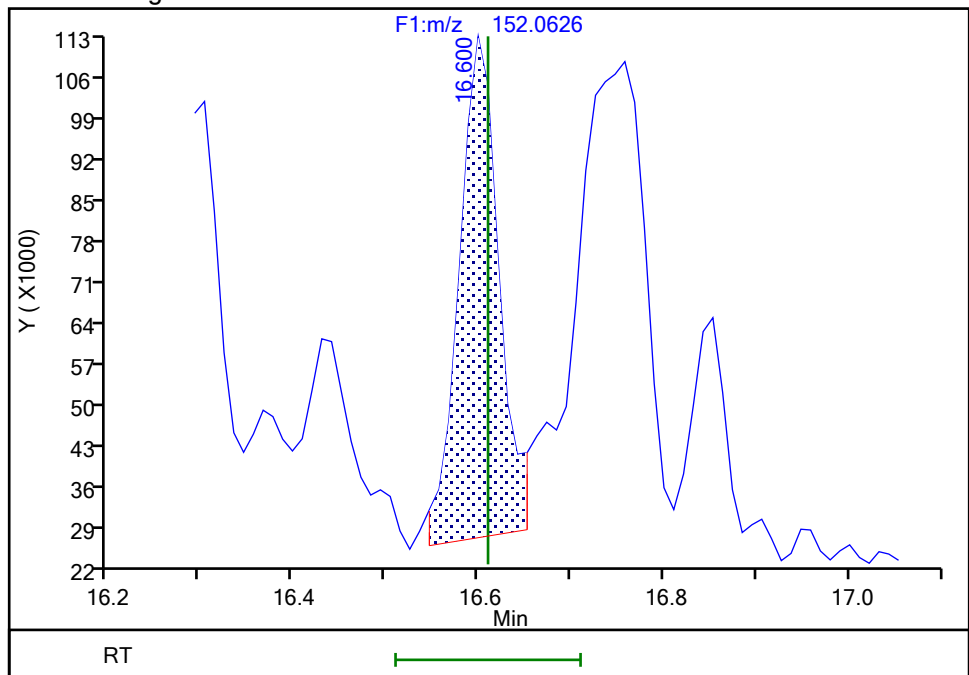
RT: 16.60  
Area: 659088  
Amount: 2.388419  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.60  
Area: 261270  
Amount: 0.946797  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:03:59 -04:00:00 (UTC)

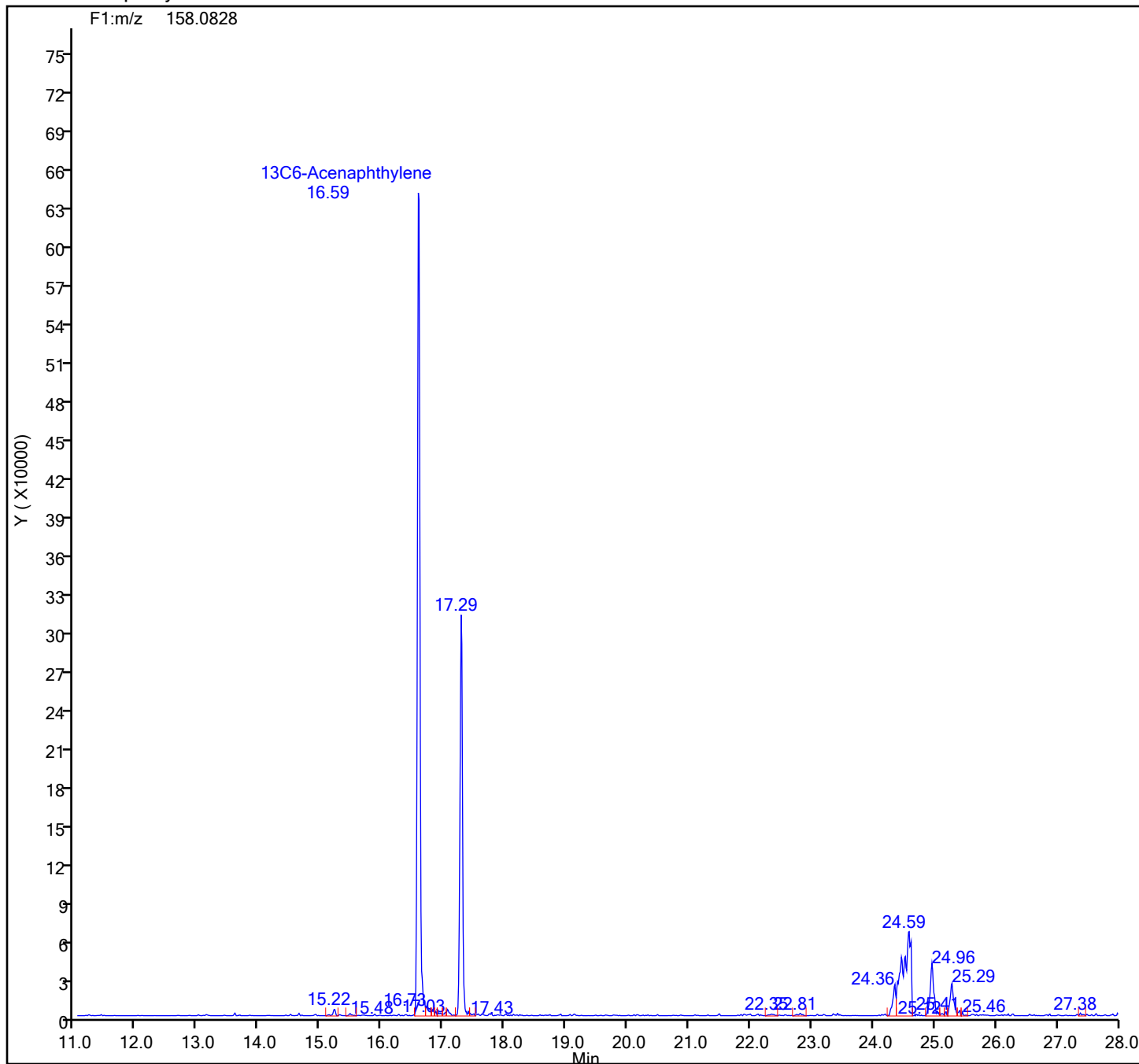
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

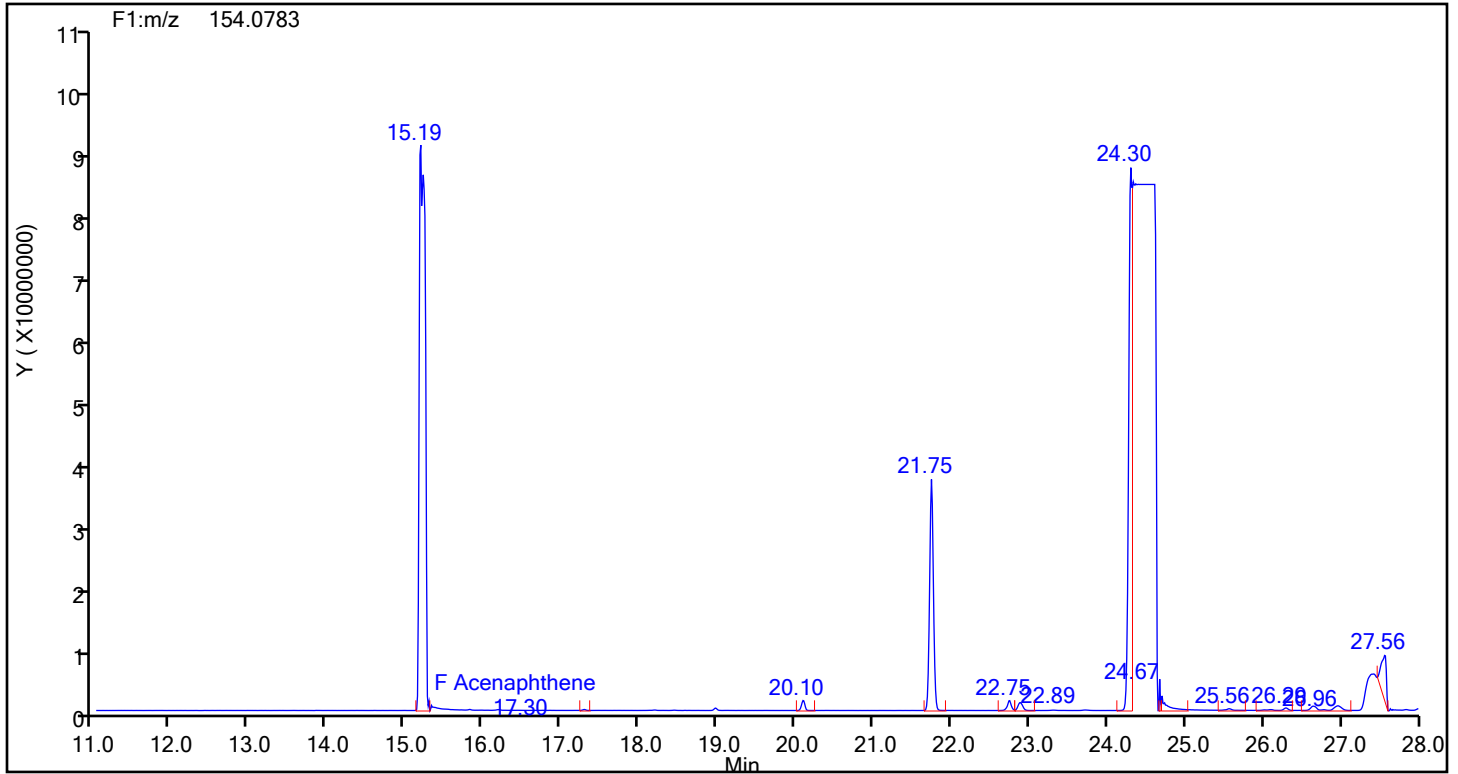
## 13C6-Acenaphthylene Standards



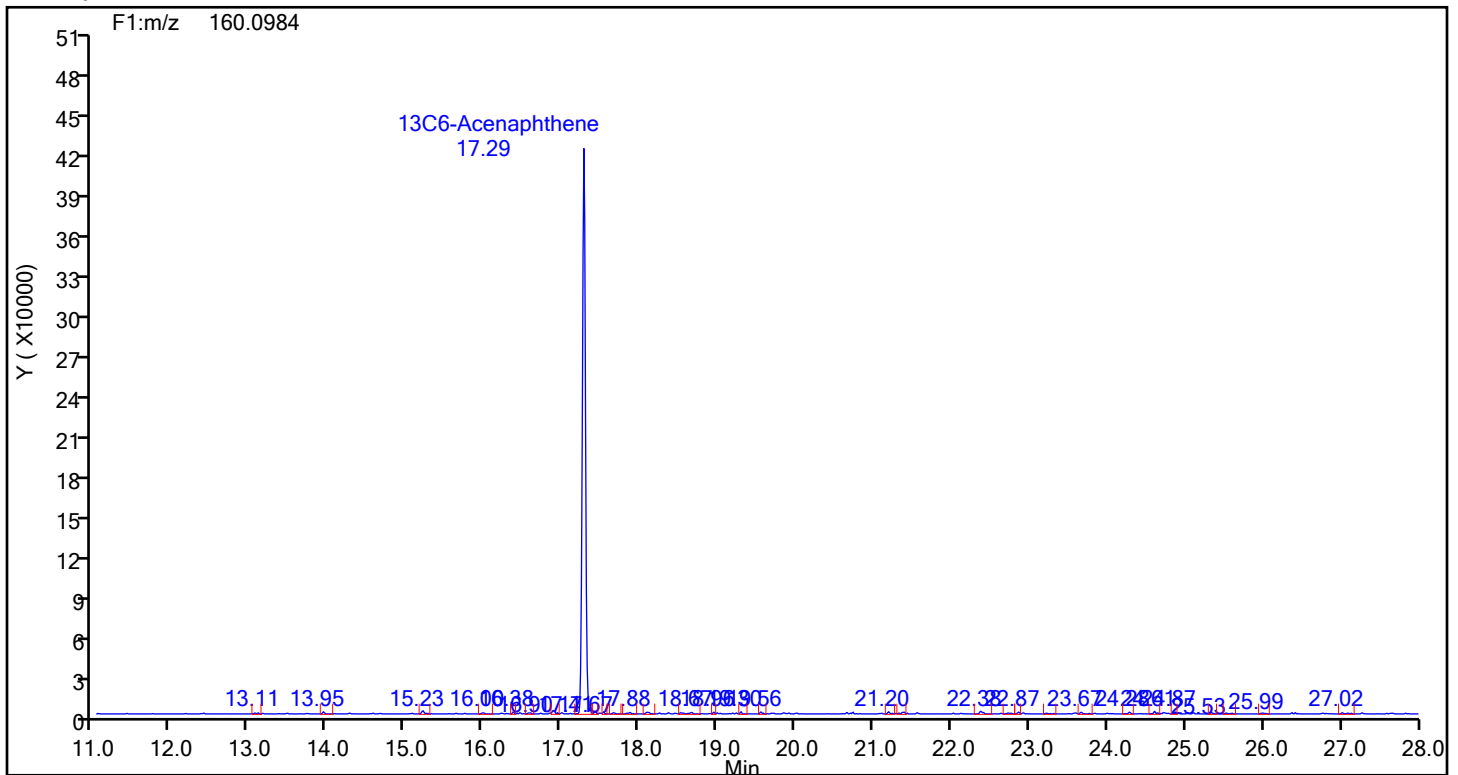
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



## Acenaphthene Standards





## Eurofins Knoxville

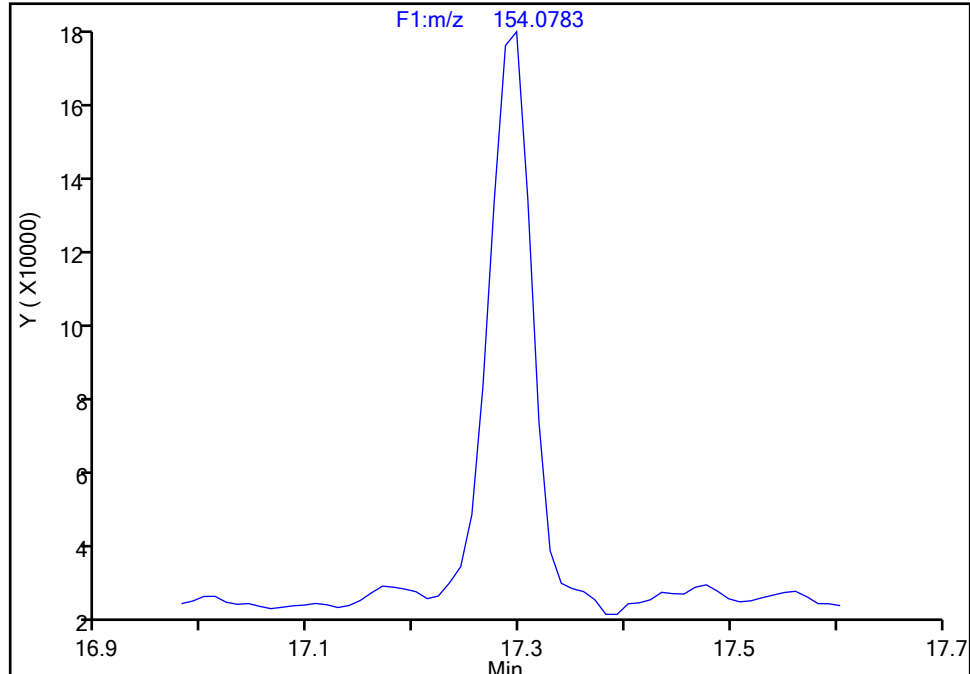
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F1(6.03 :27.99 )

## Acenaphthene, CAS: 83-32-9

Signal: 1

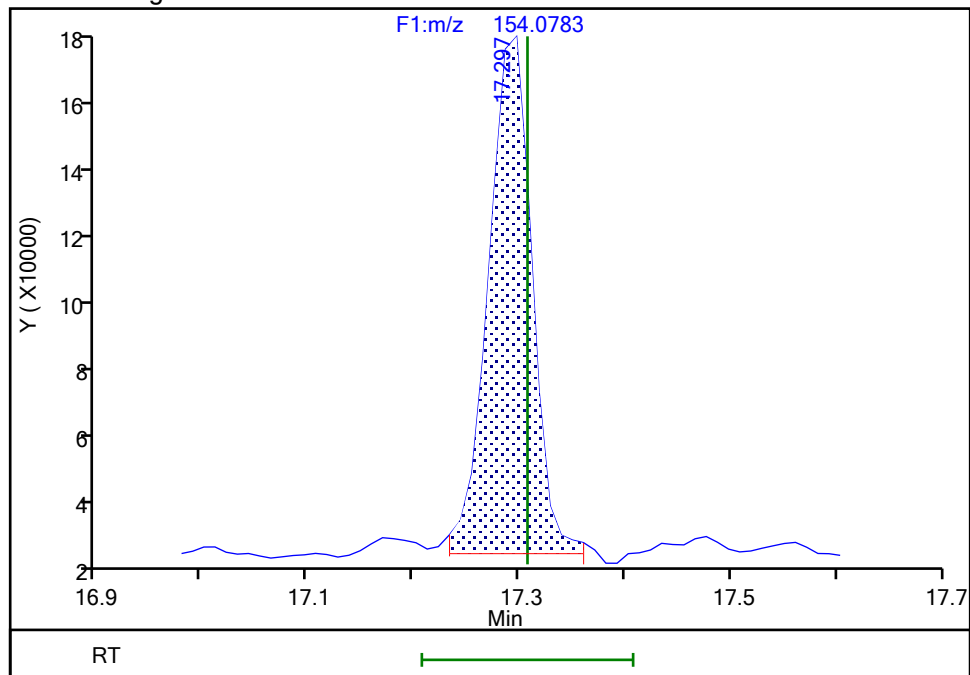
Not Detected  
Expected RT: 17.31

## Processing Integration Results



RT: 17.30  
Area: 405804  
Amount: 2.740501  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:03:15 -04:00:00 (UTC)

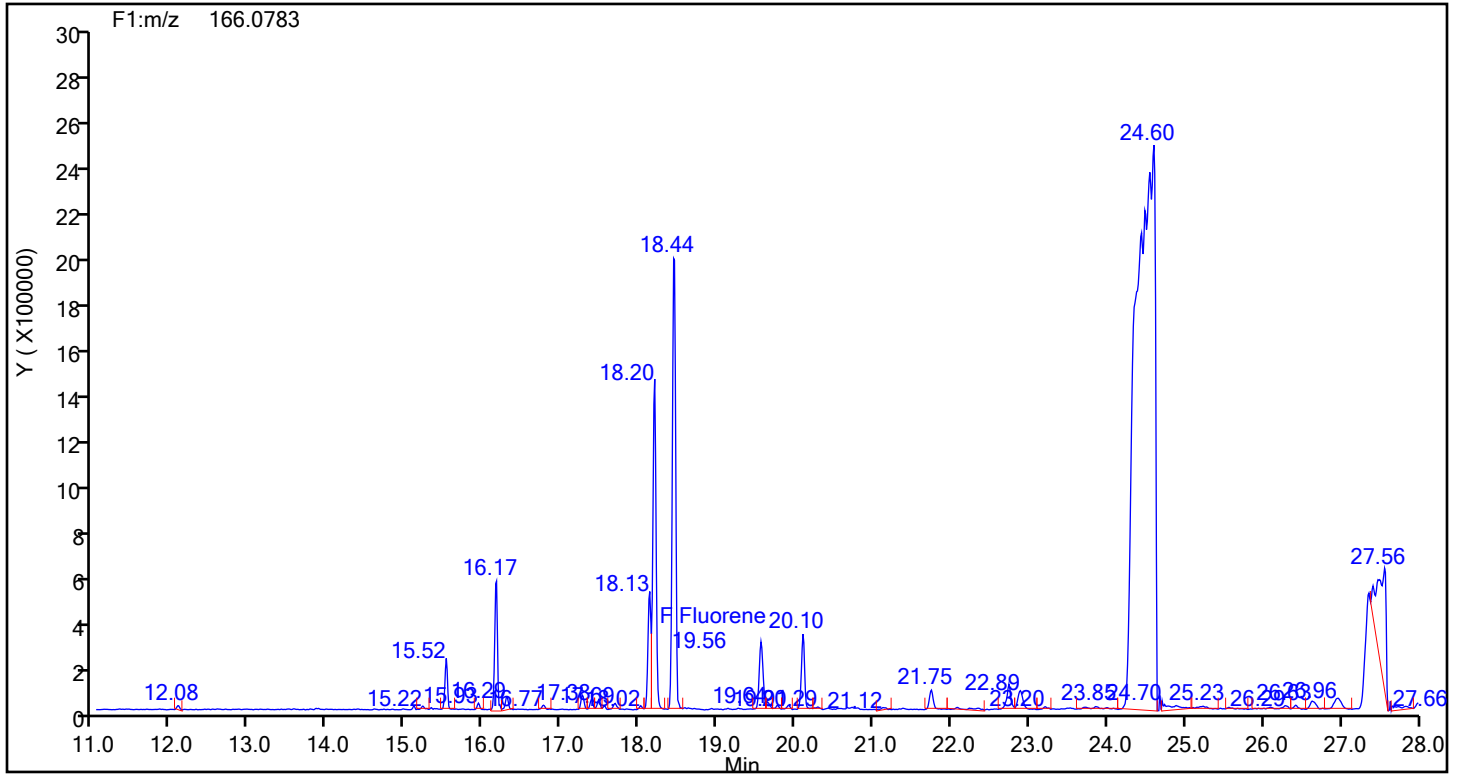
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

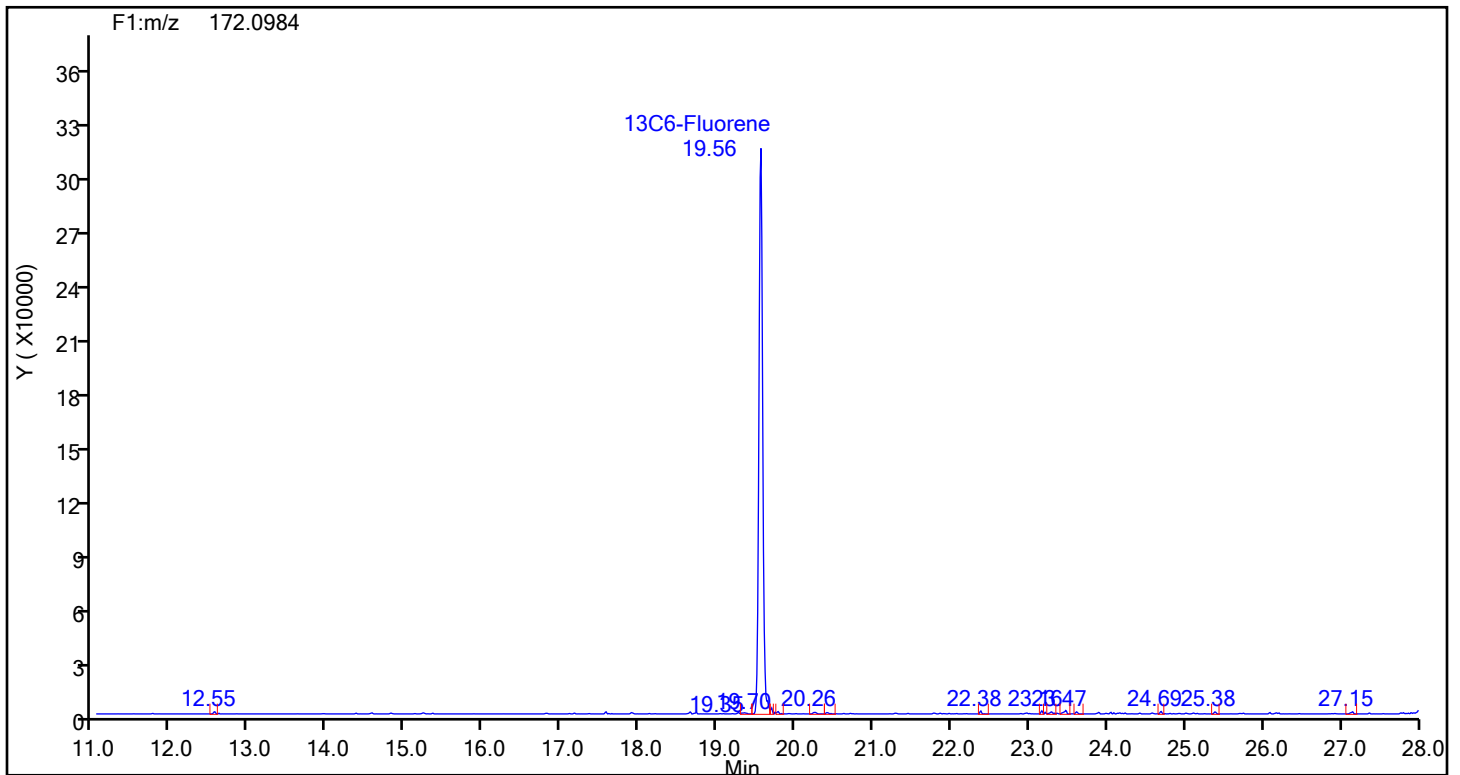
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



## Fluorene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d

Injection Date: 17-Jul-2024 06:42:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

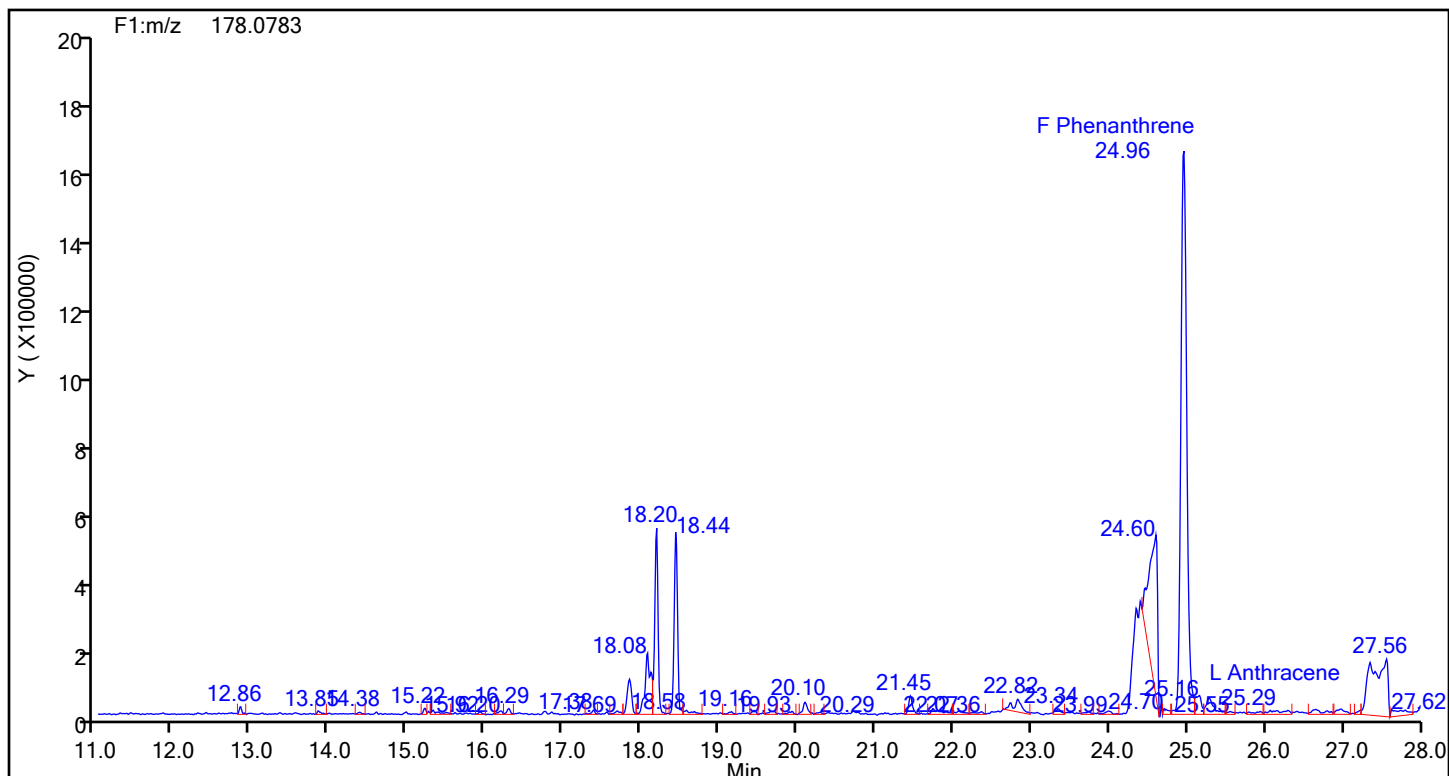
Worklist#: 88831

Sample Line#: 10

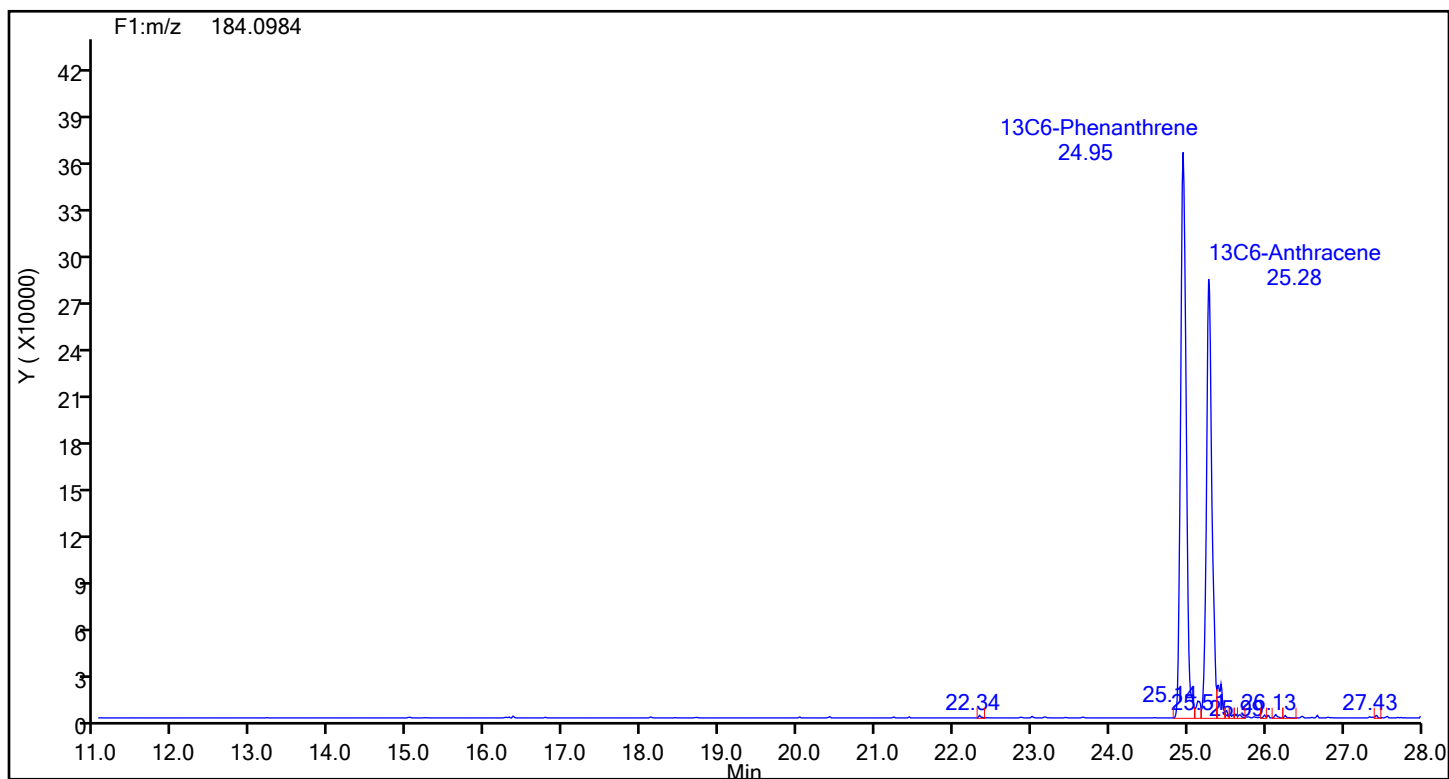
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Phenanthrene



## Phenanthrene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d

Injection Date: 17-Jul-2024 06:42:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

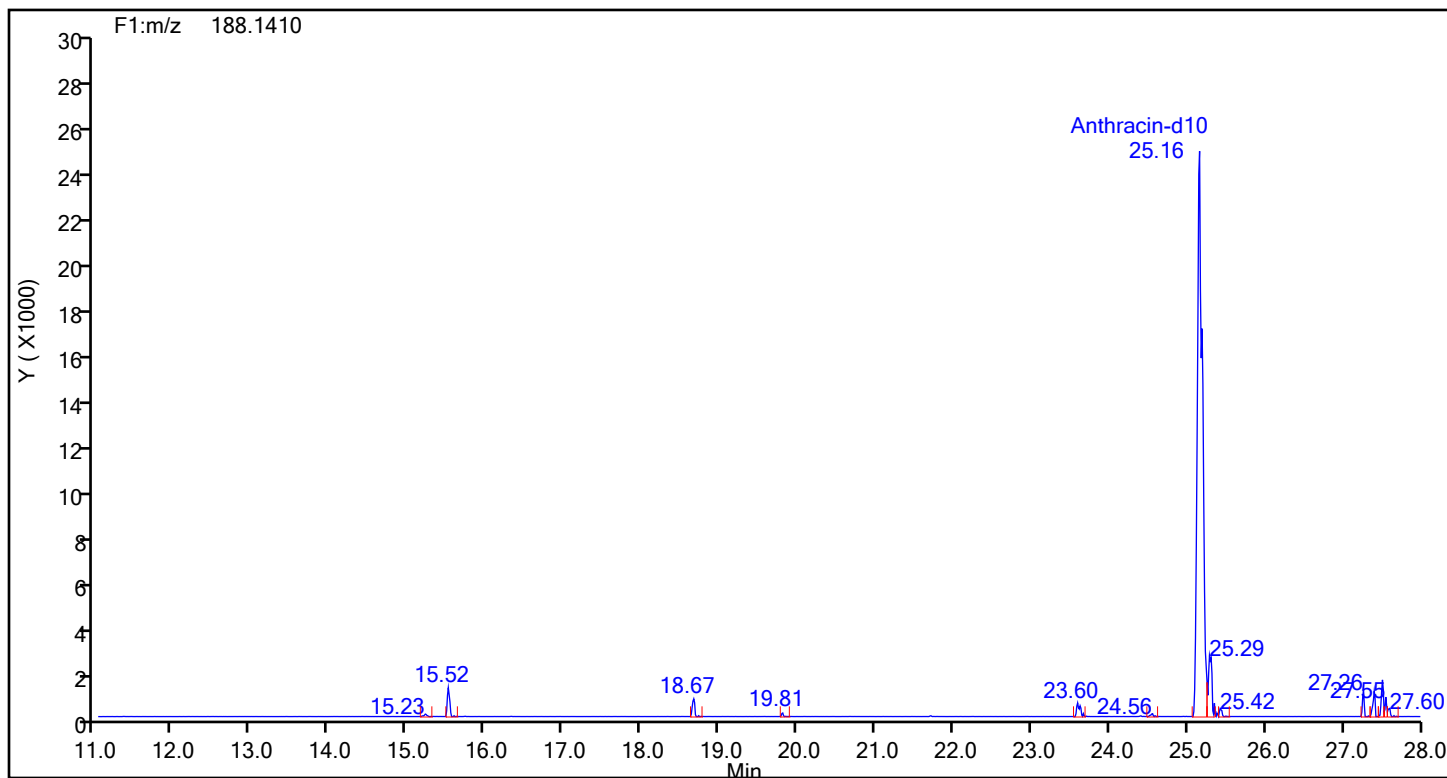
Worklist#: 88831

Sample Line#: 10

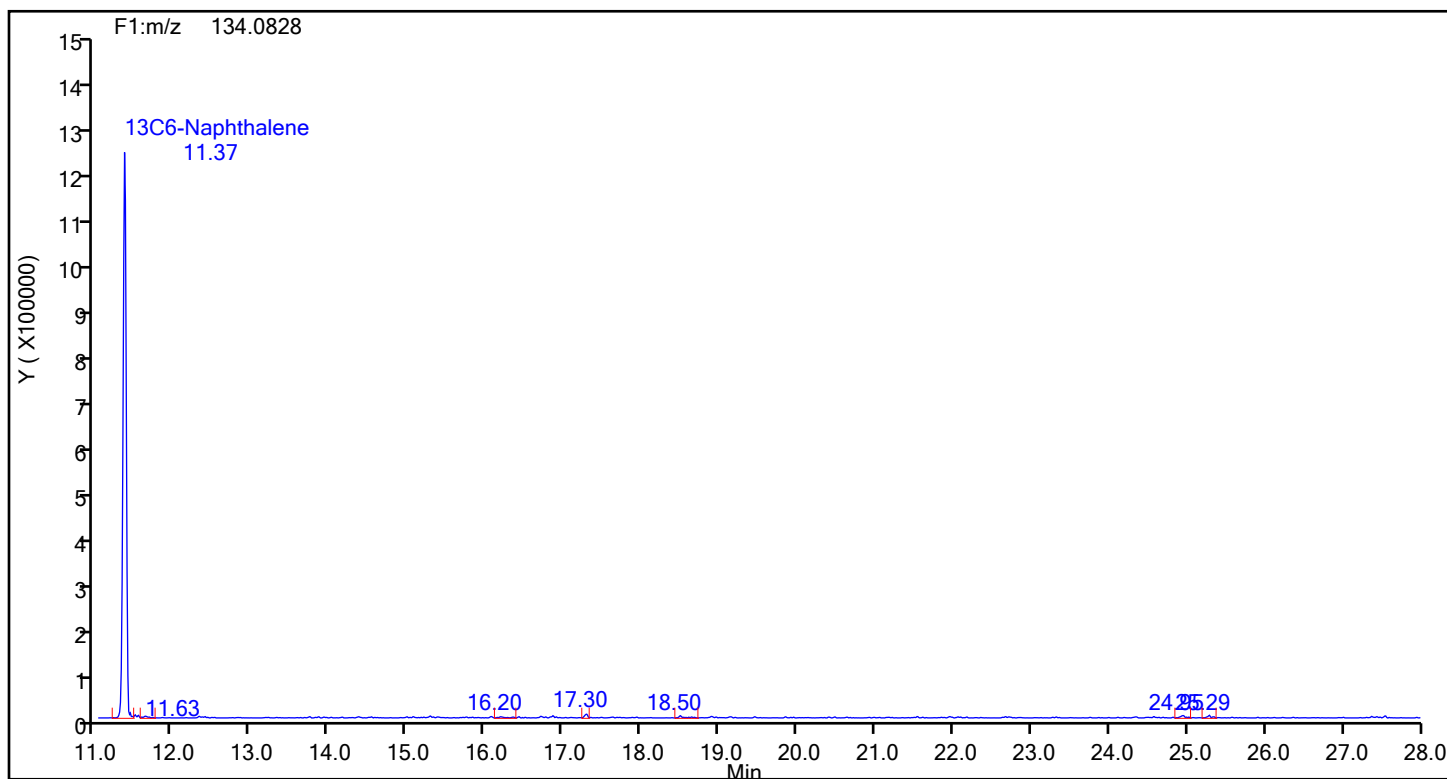
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Anthracin-d10

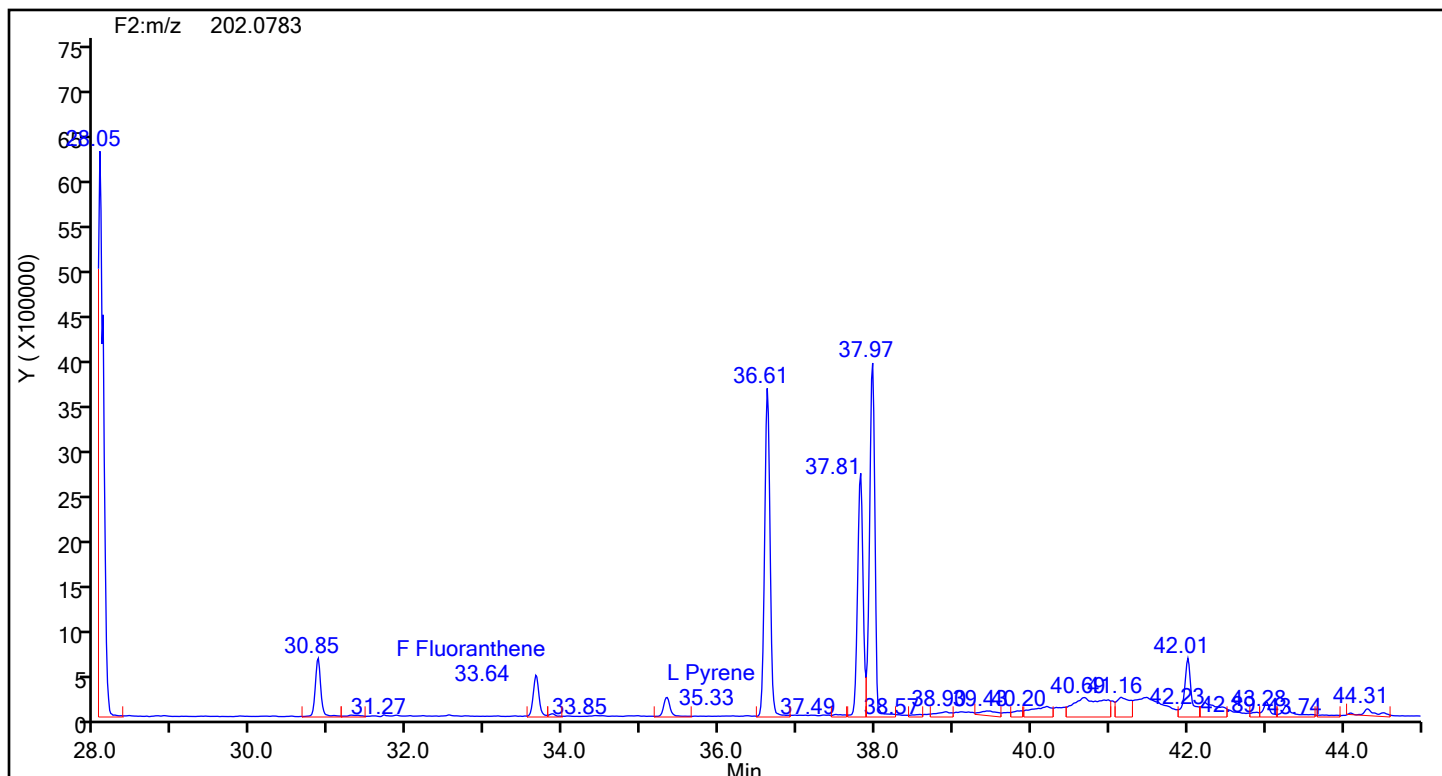


Anthracin-d10 Standards

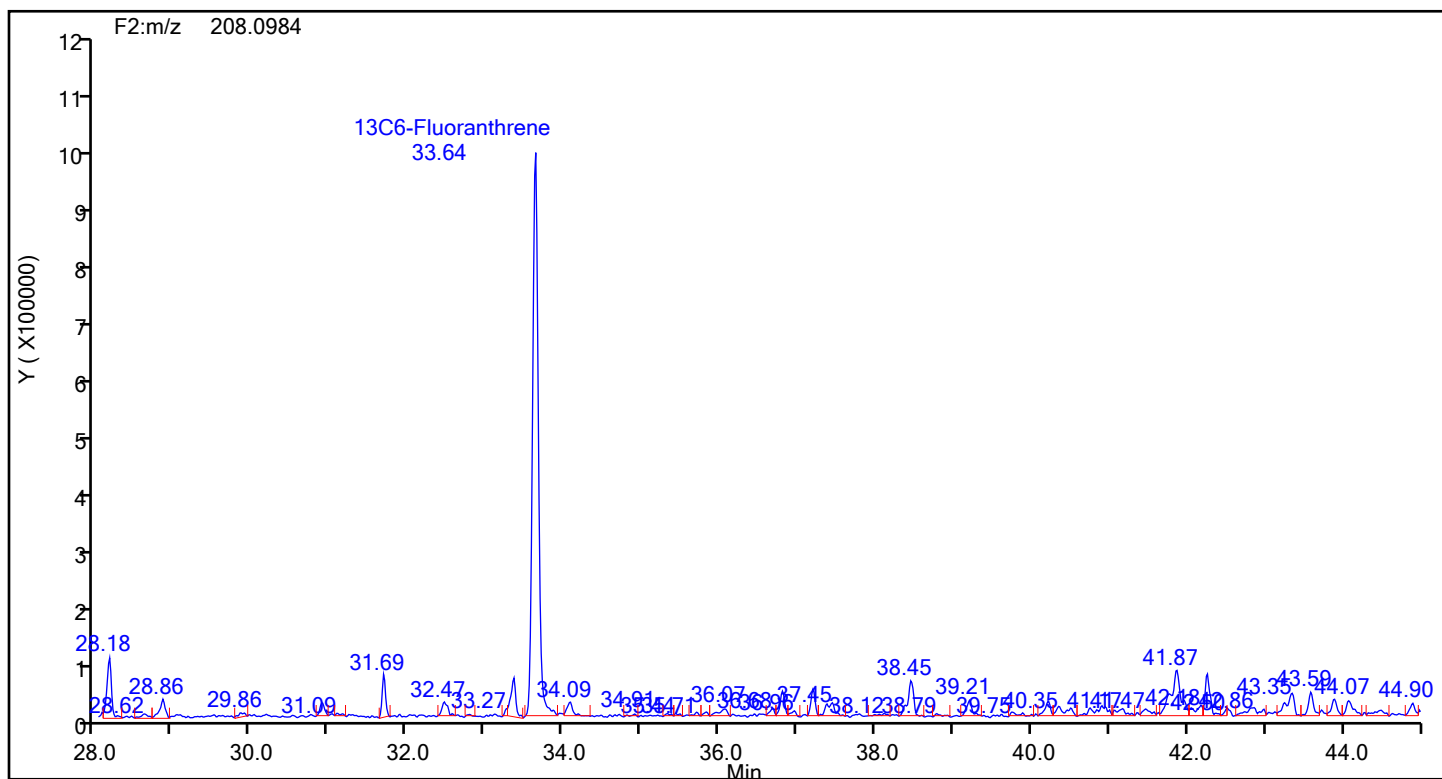


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



## Fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d

Injection Date: 17-Jul-2024 06:42:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

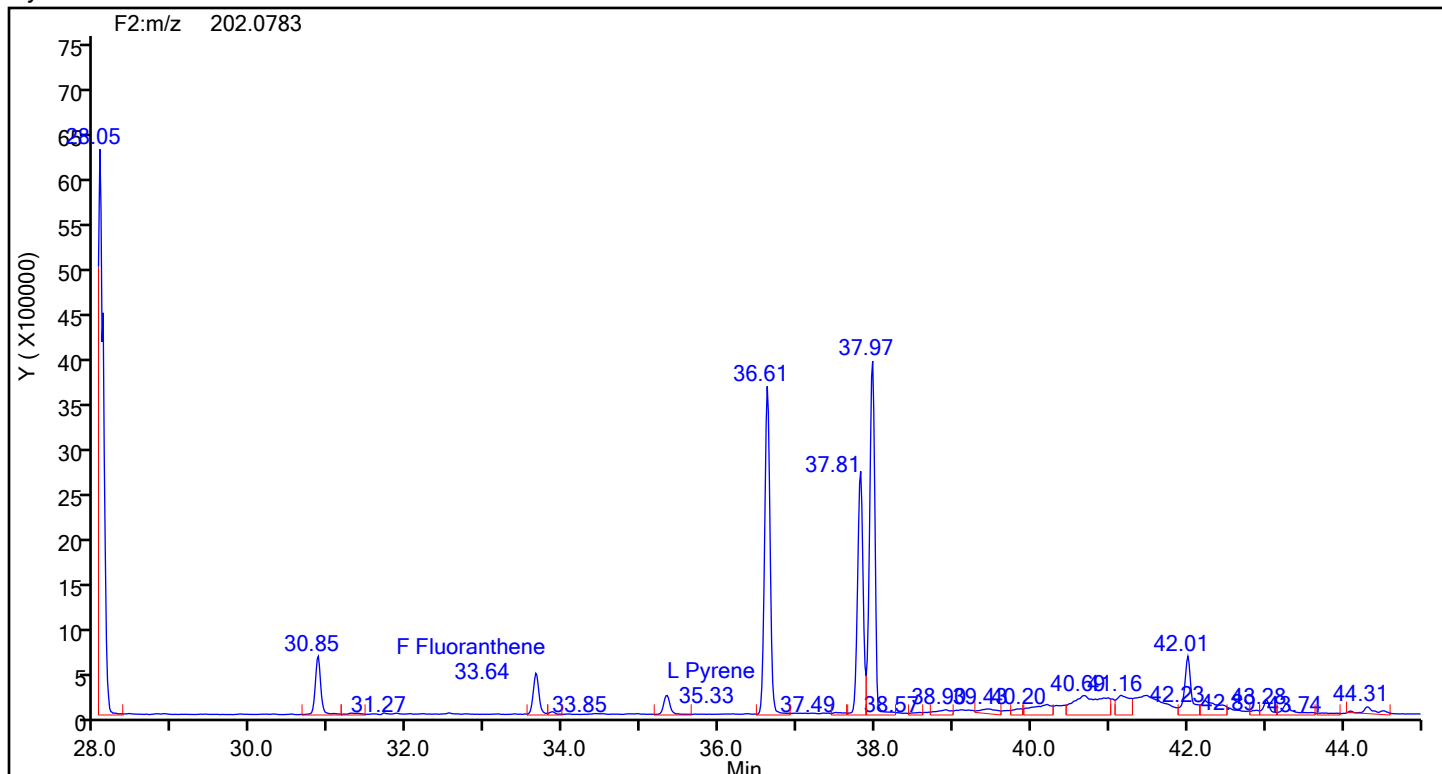
Worklist#: 88831

Sample Line#: 10

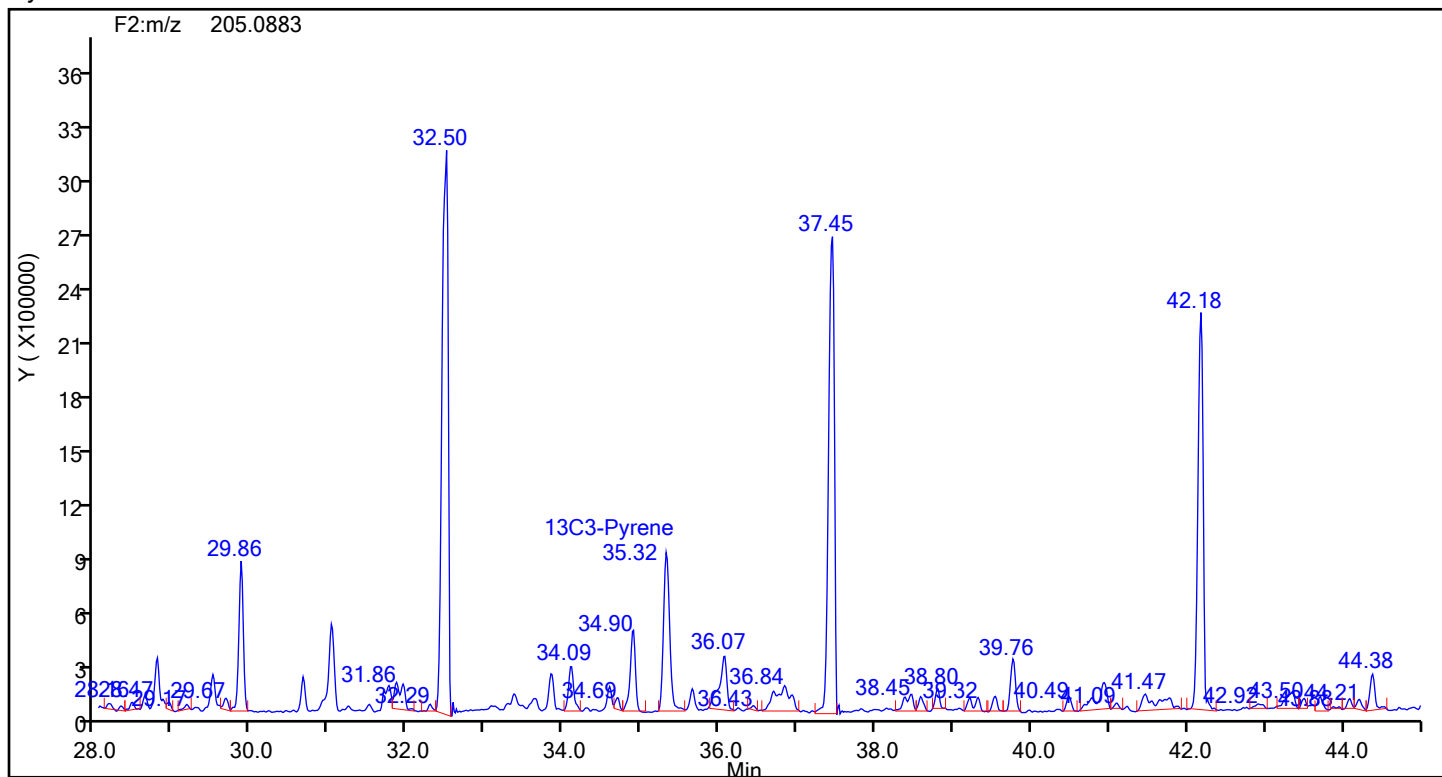
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Pyrene



## Pyrene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d

Injection Date: 17-Jul-2024 06:42:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

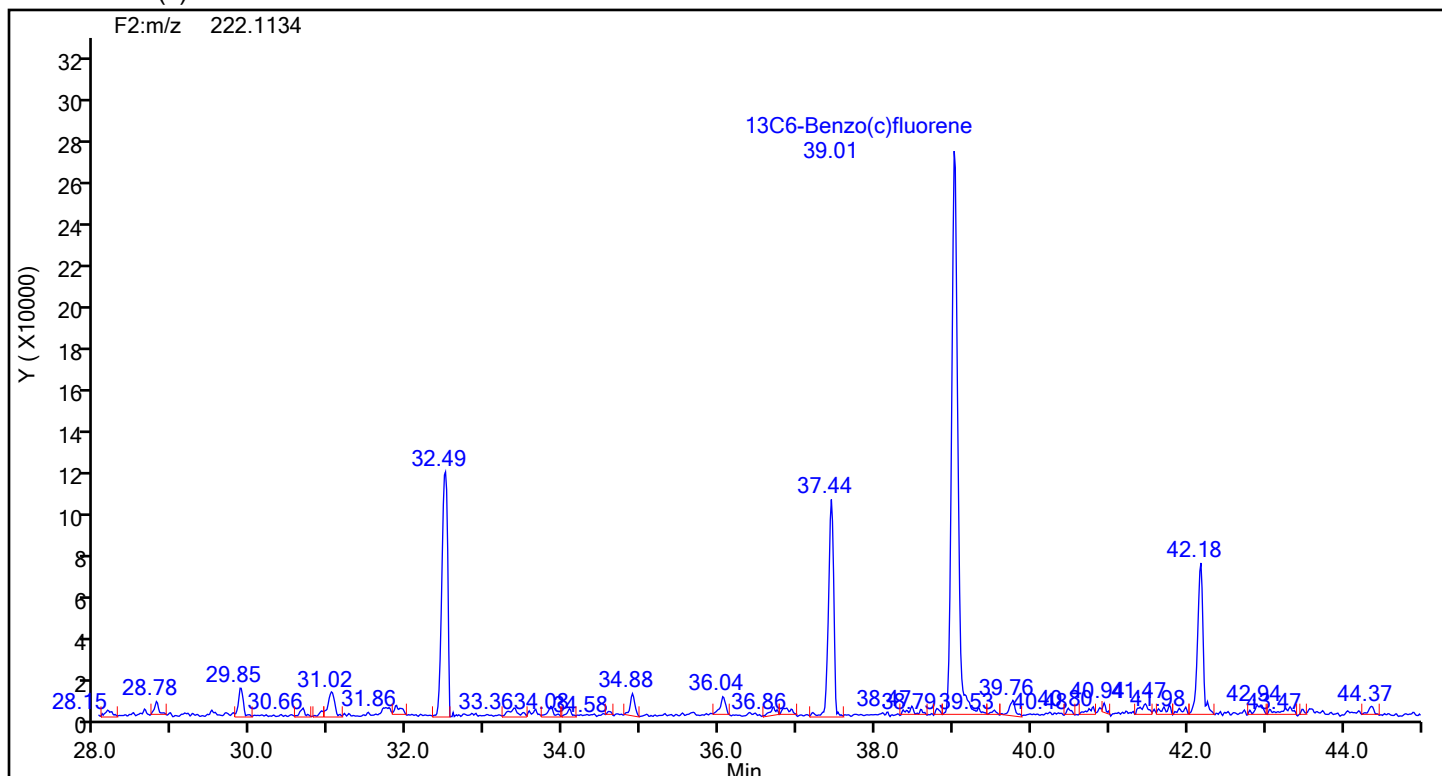
Worklist#: 88831

Sample Line#: 10

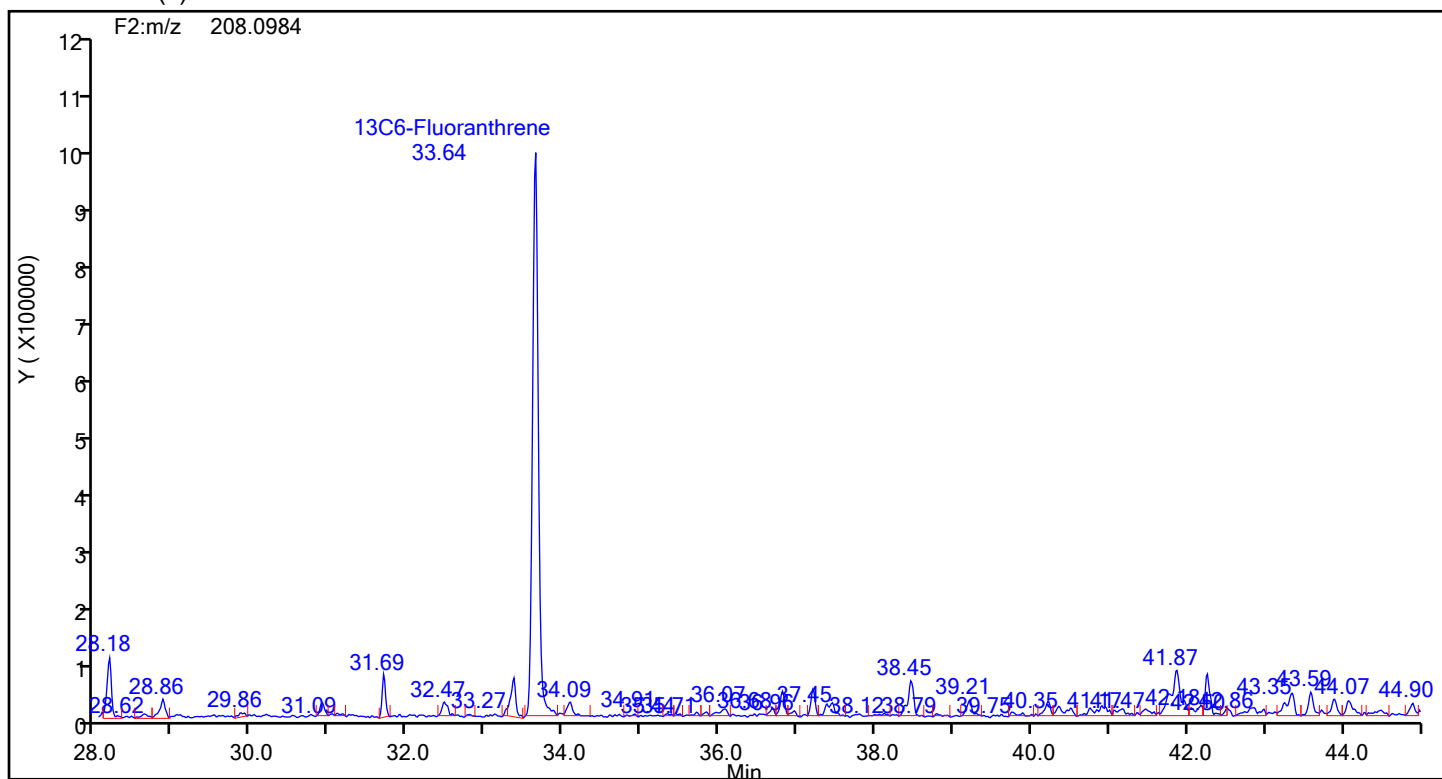
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



## 13C6-Benzo(c)fluorene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d

Injection Date: 17-Jul-2024 06:42:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

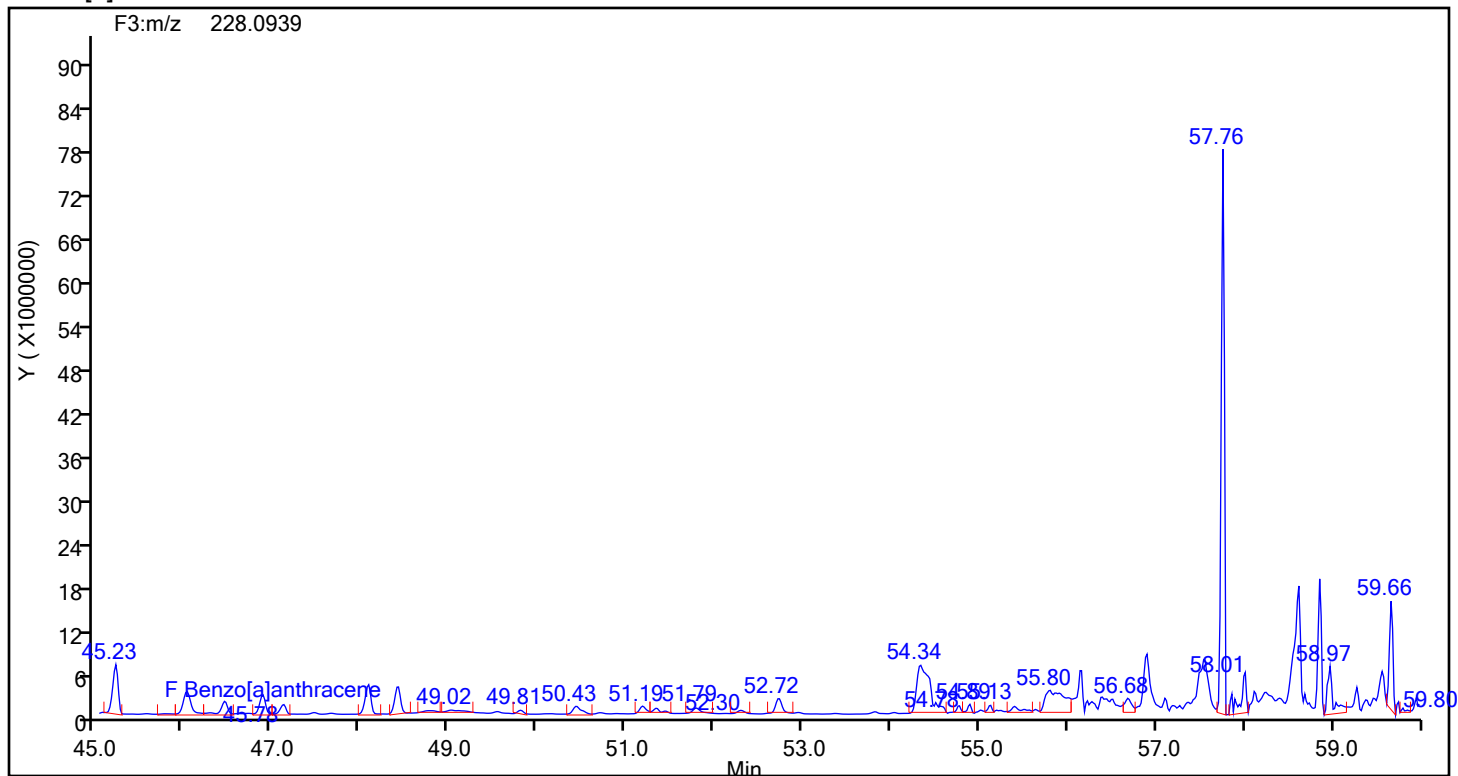
Worklist#: 88831

Sample Line#: 10

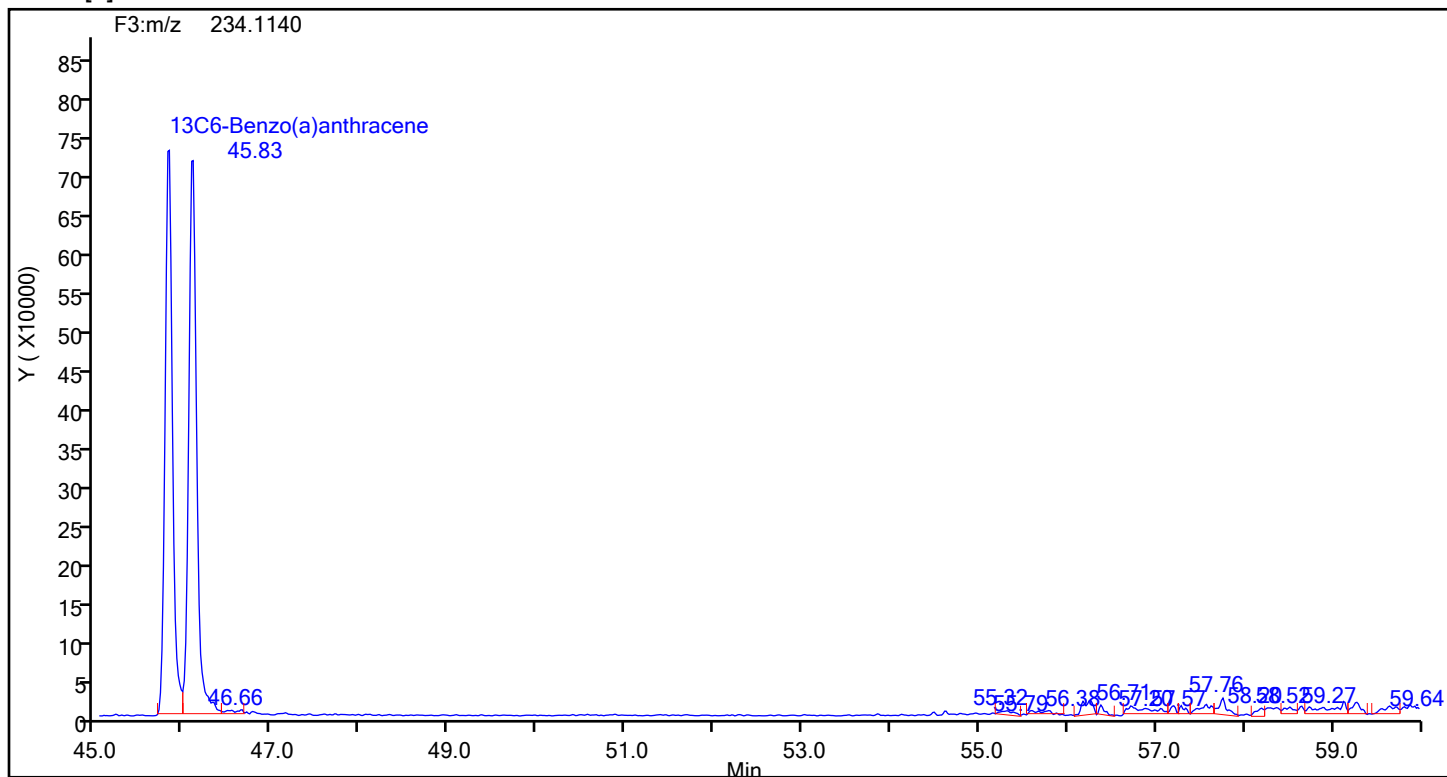
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[a]anthracene



## Benzo[a]anthracene Standards





## Eurofins Knoxville

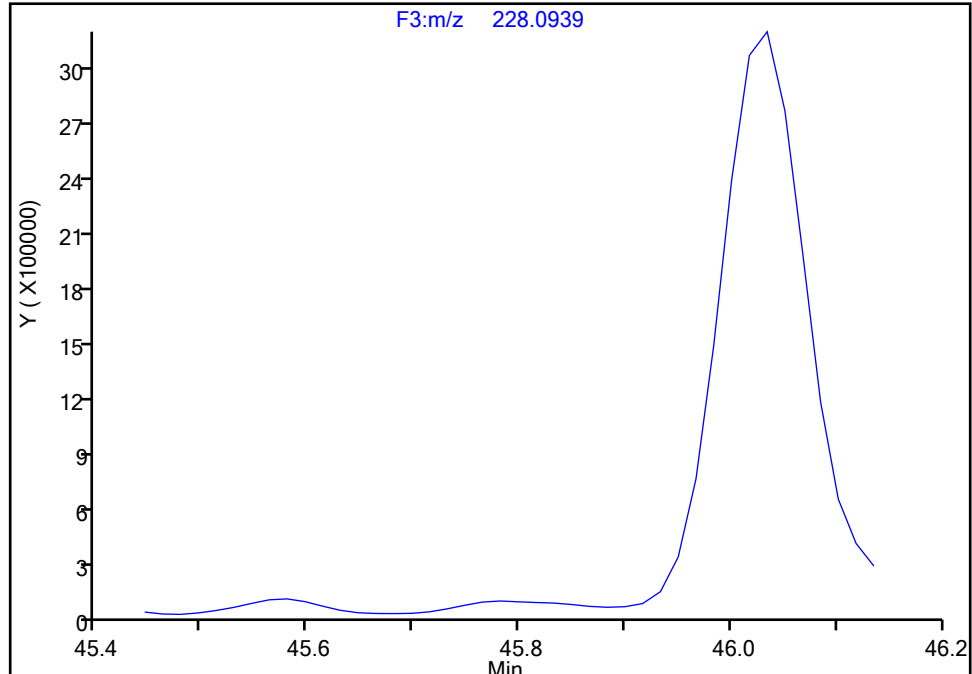
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

**Benzo[a]anthracene, CAS: 56-55-3**

Signal: 1

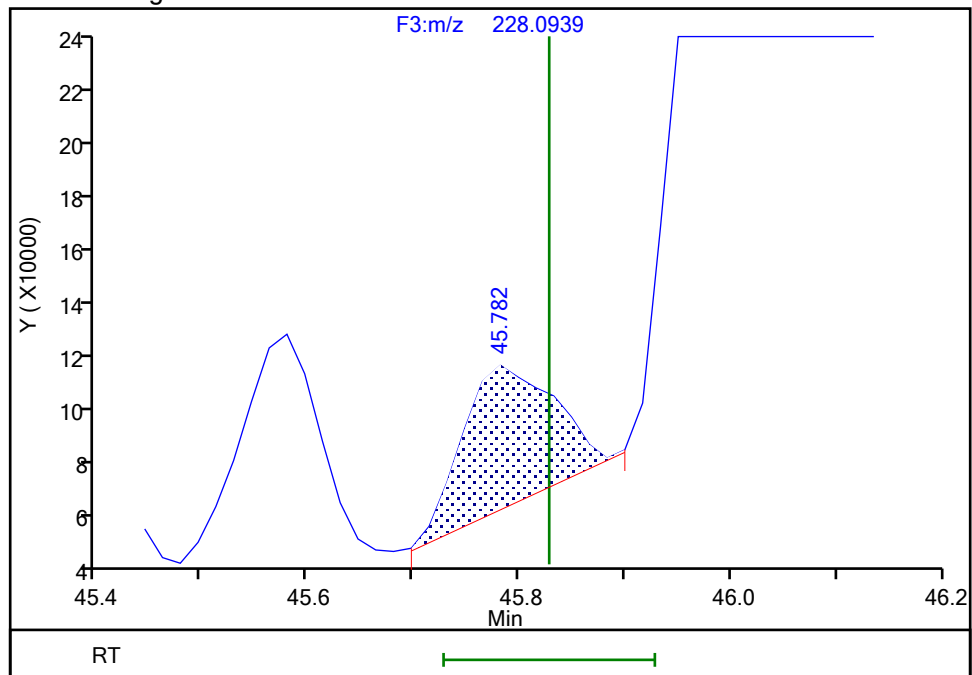
Not Detected  
Expected RT: 45.83

## Processing Integration Results



## Manual Integration Results

RT: 45.78  
Area: 310800  
Amount: 0.749168  
Amount Units: pg/ul



Reviewer: F9EE, 17-Jul-2024 16:04:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

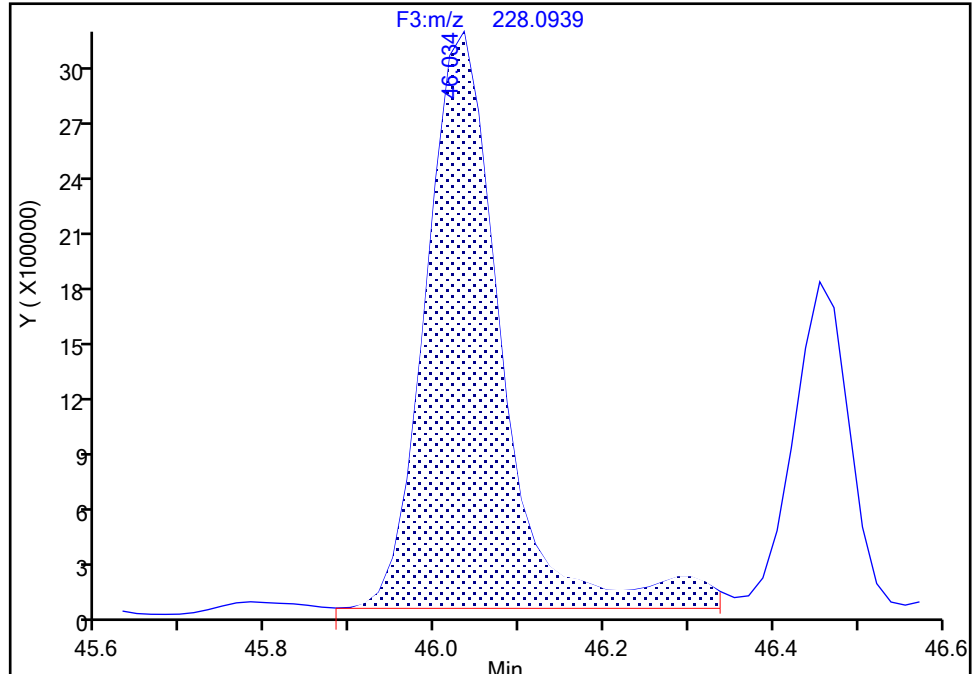
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Chrysene, CAS: 218-01-9

Signal: 1

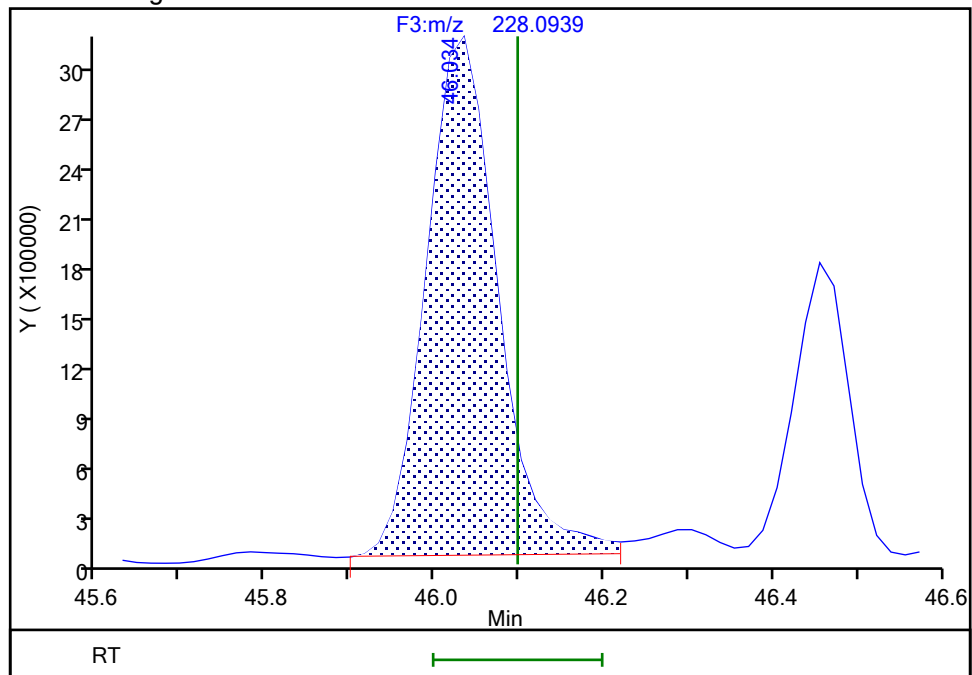
RT: 46.03  
Area: 19204966  
Amount: 43.769554  
Amount Units: pg/ul

## Processing Integration Results



RT: 46.03  
Area: 18038390  
Amount: 41.110840  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:04:44 -04:00:00 (UTC)

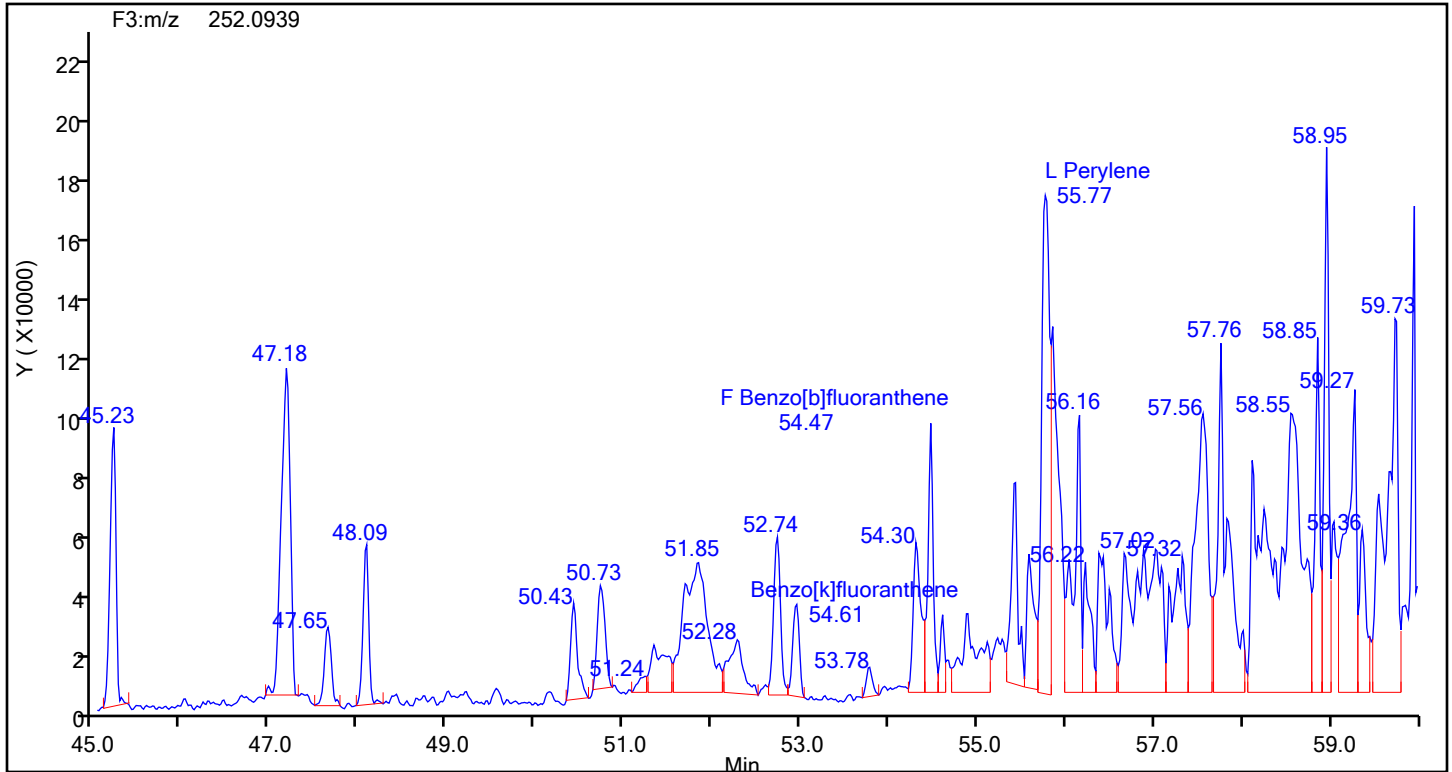
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

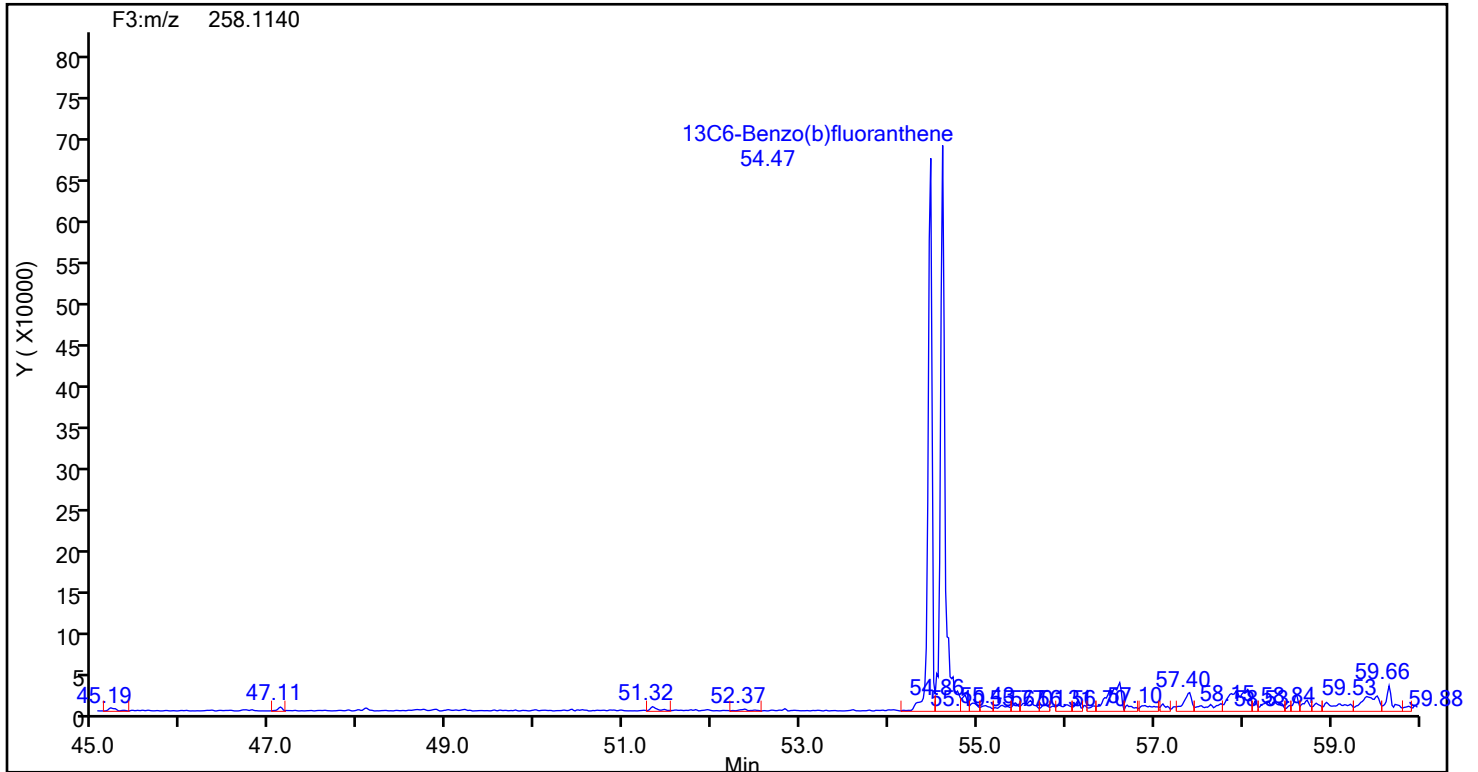
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



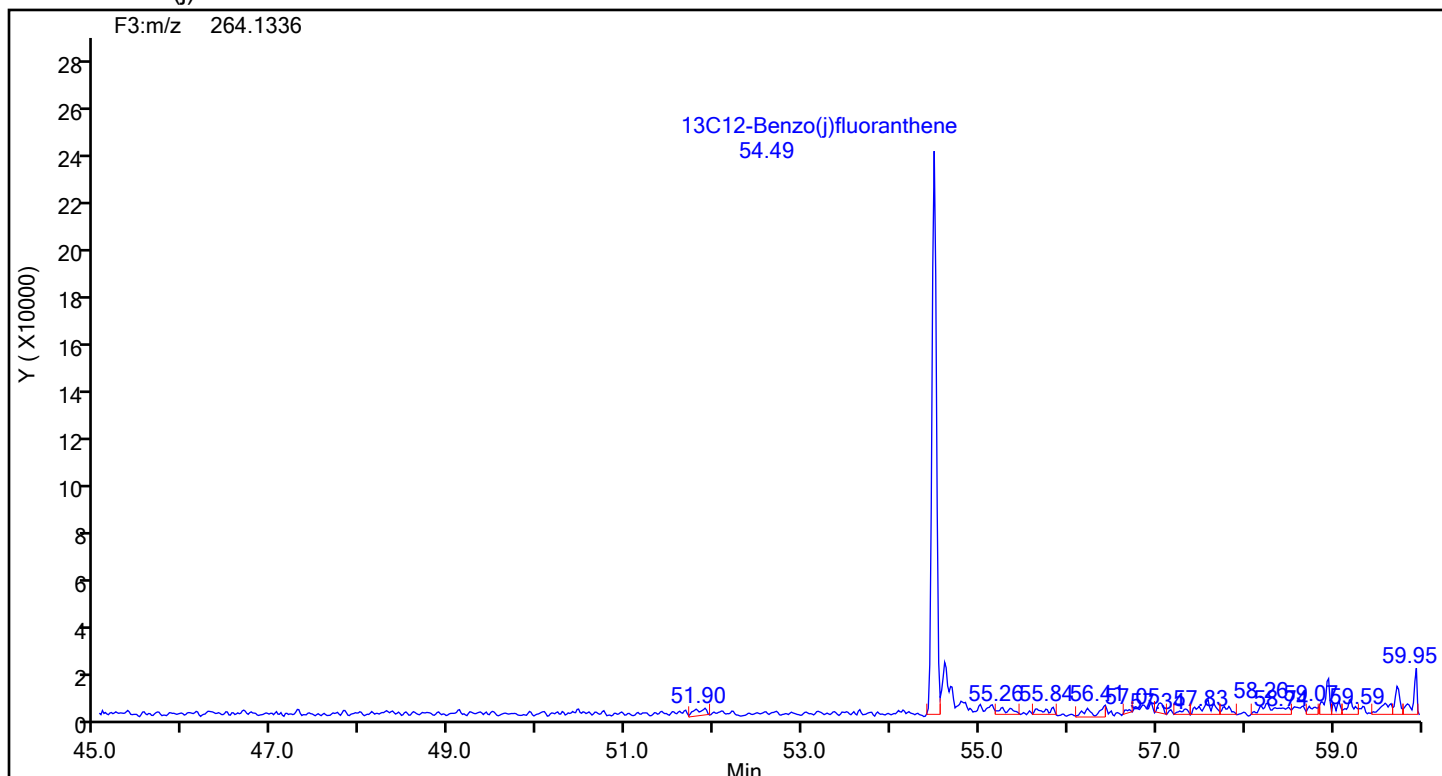
## Benzo[b]fluoranthene Standards



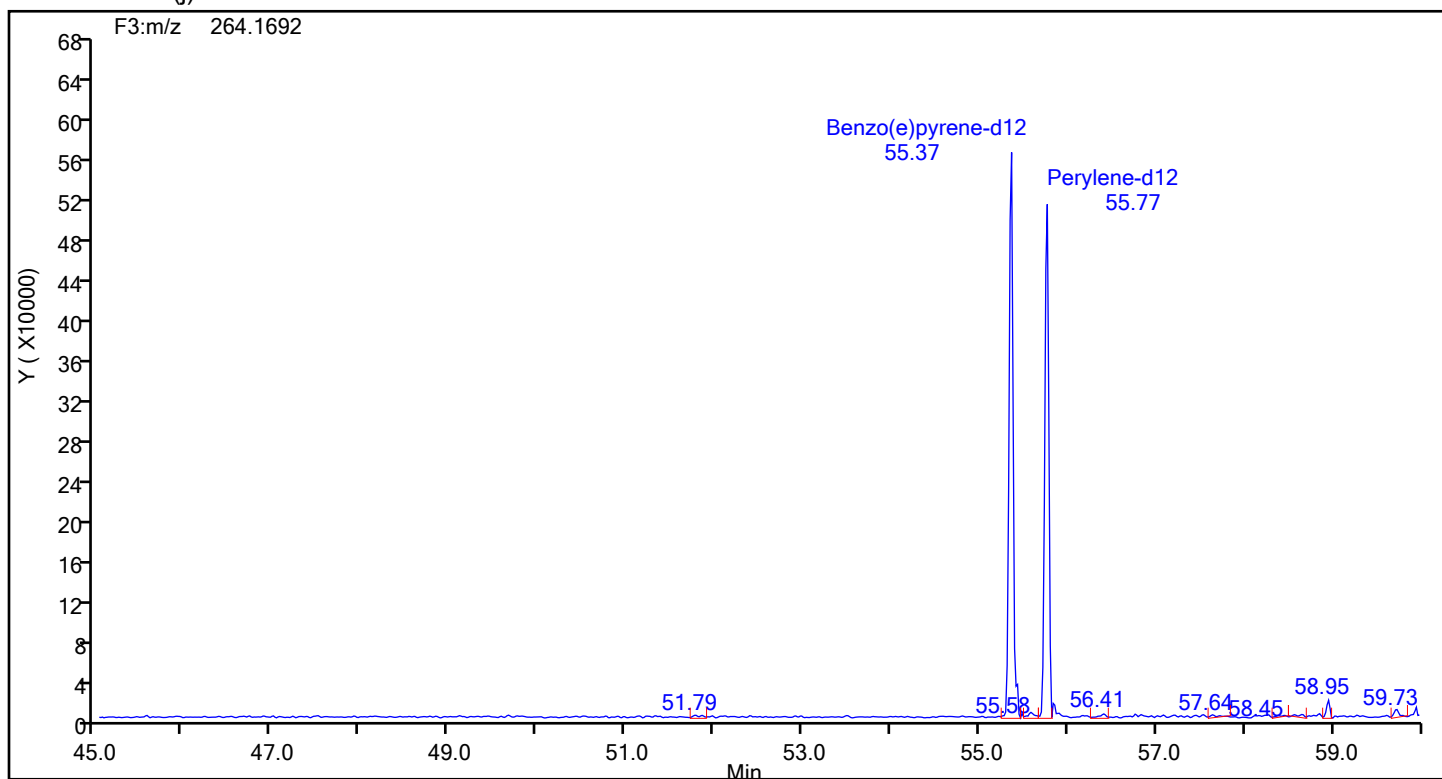
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



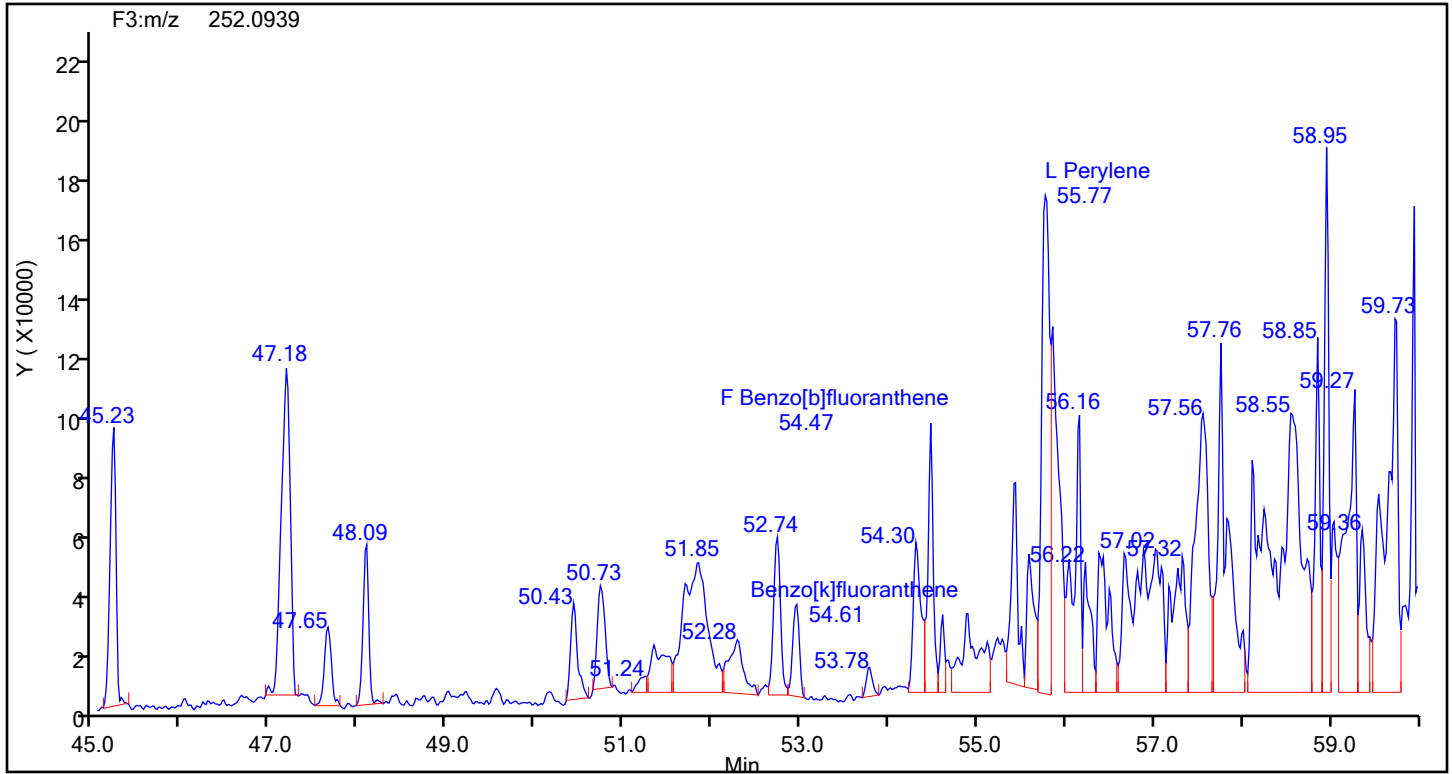
## 13C12-Benzo(j)fluoranthene Standards



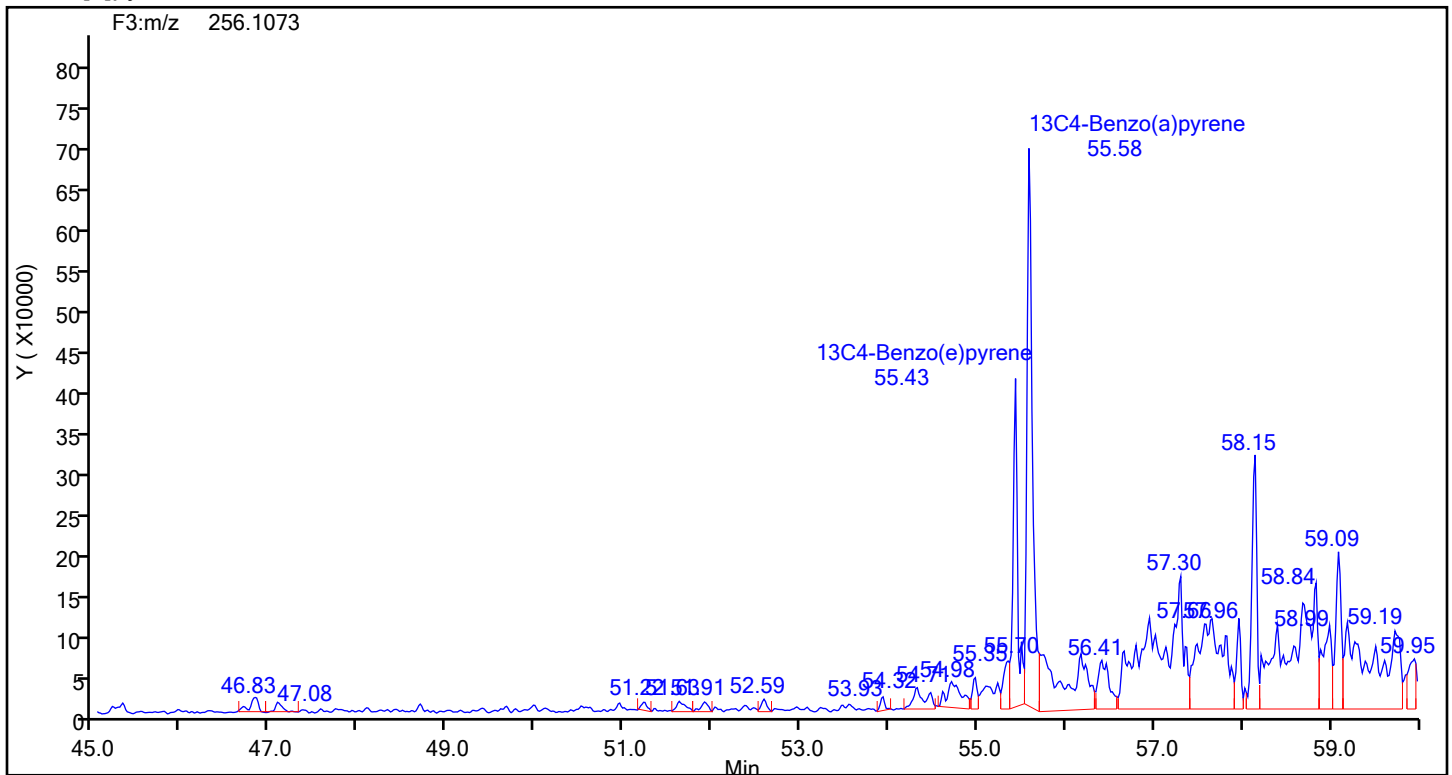
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



## Benzo[e]pyrene Standards



## Eurofins Knoxville

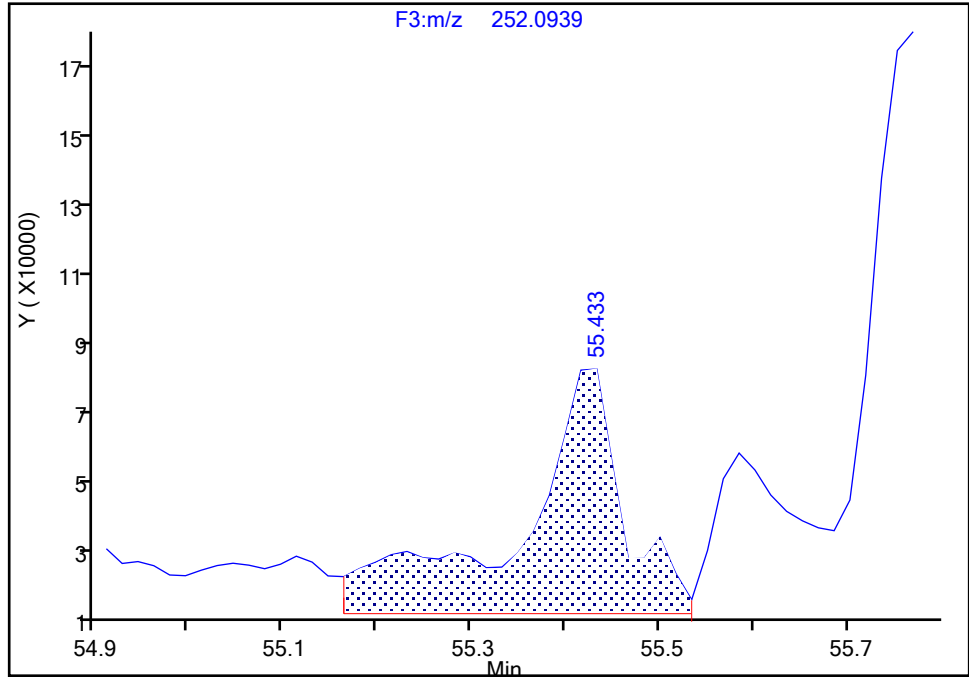
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

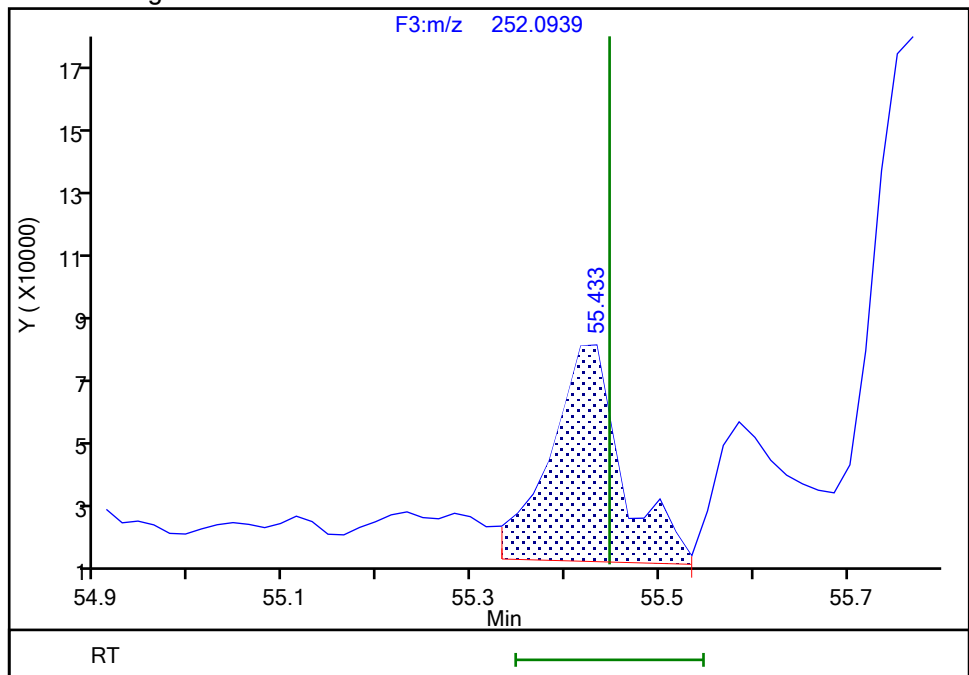
RT: 55.43  
Area: 525505  
Amount: 3.990647  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.43  
Area: 352785  
Amount: 2.304542  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:05:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

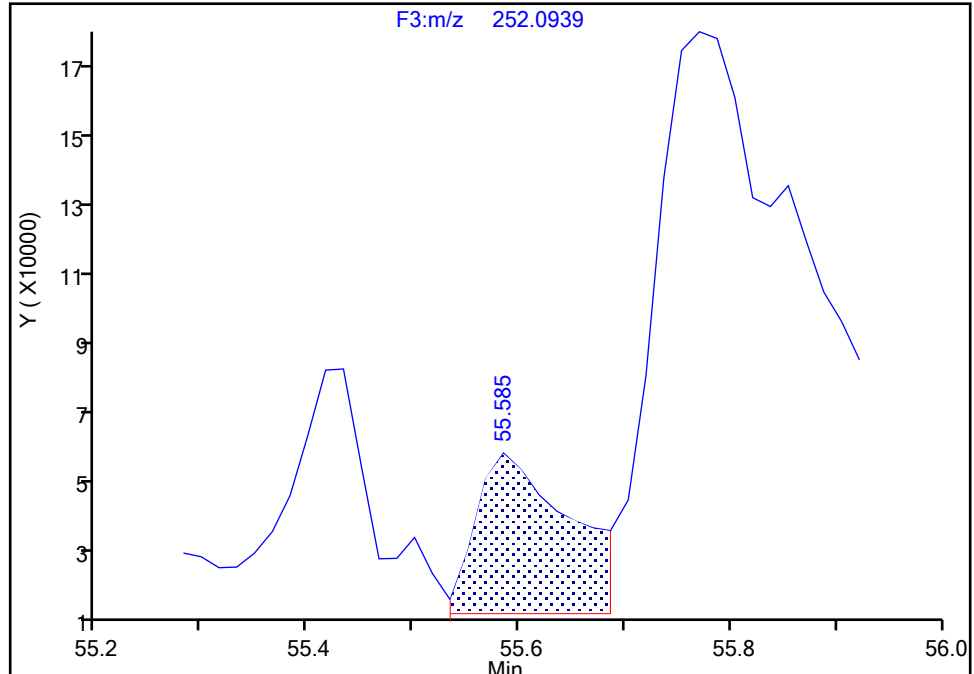
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

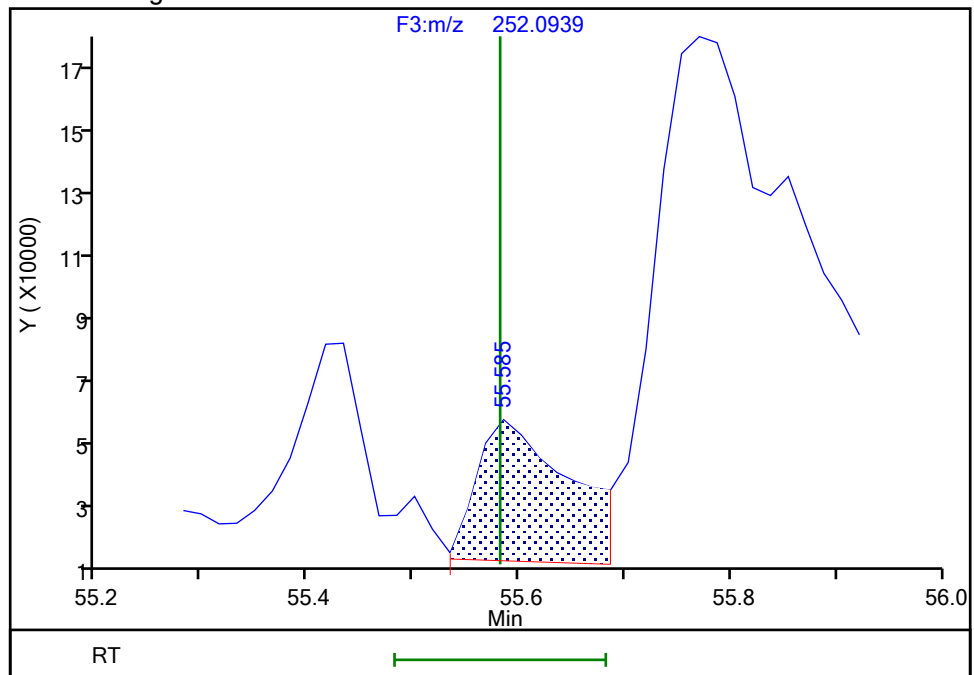
RT: 55.58  
Area: 267472  
Amount: 0.613404  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.58  
Area: 267189  
Amount: 0.797061  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:05:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

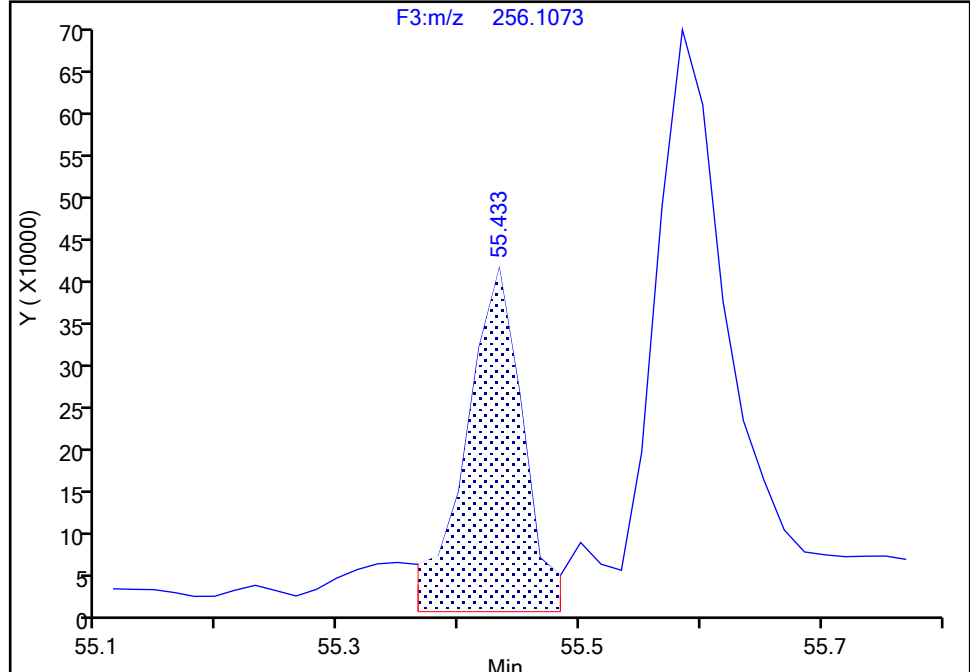
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

**13C4-Benzo(e)pyrene, CAS: STL03382**

Signal: 1

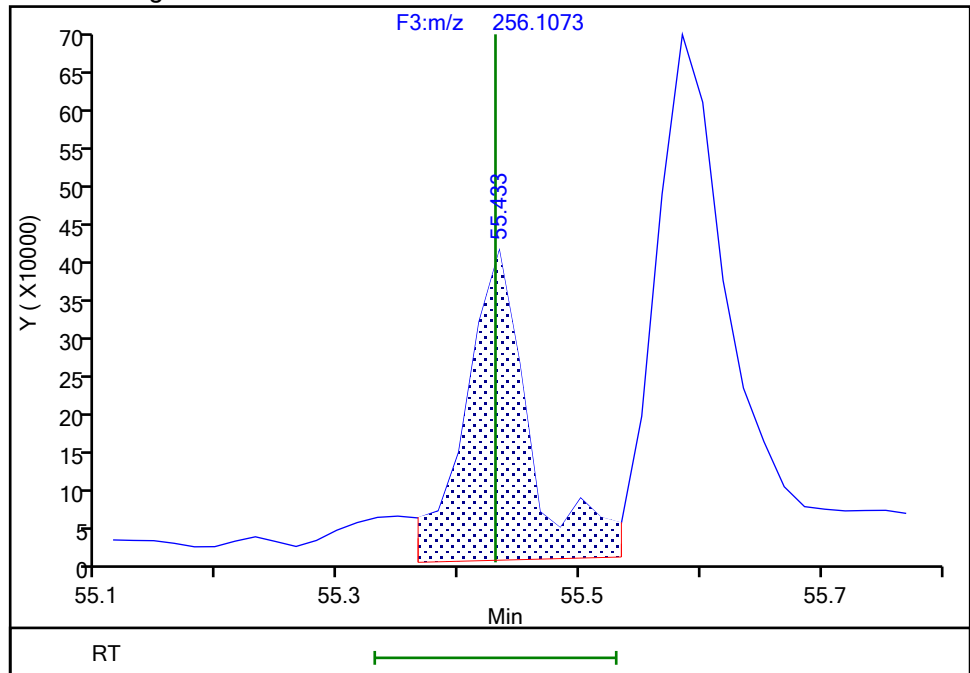
RT: 55.43  
Area: 1315172  
Amount: 2.223376  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.43  
Area: 1528884  
Amount: 2.584669  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:22:21 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Incomplete Integration



## Eurofins Knoxville

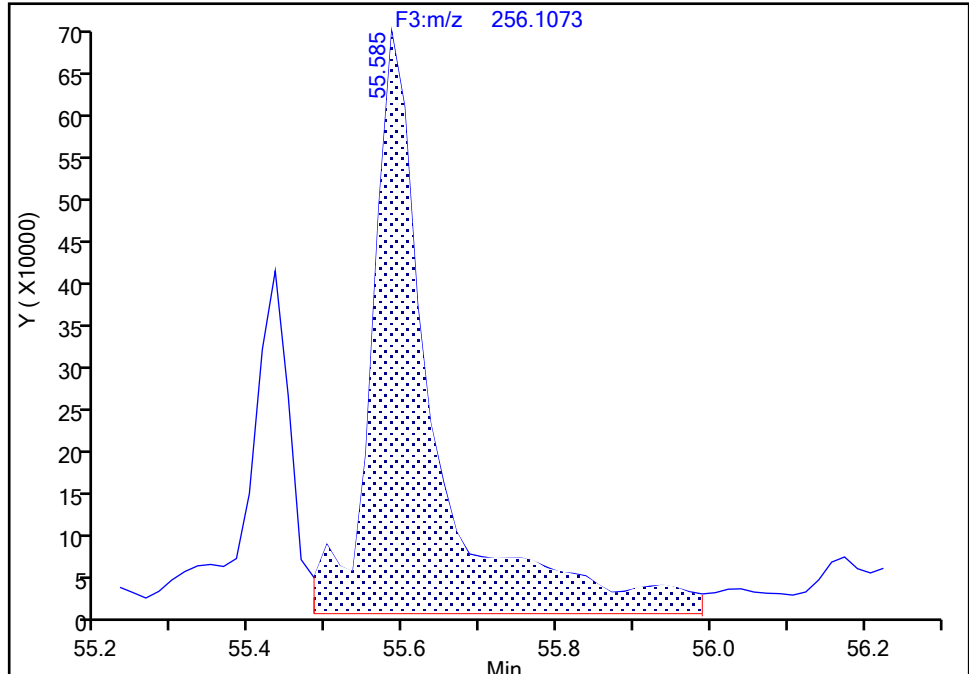
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C4-Benzo(a)pyrene, CAS: STL03359**

Signal: 1

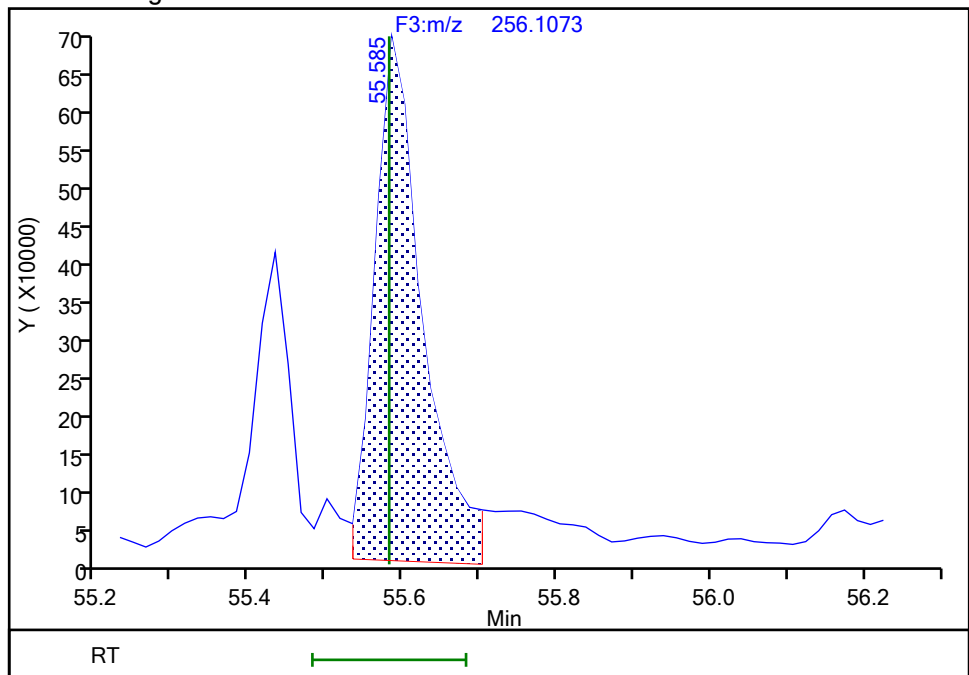
RT: 55.58  
Area: 3917636  
Amount: 6.990504  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.58  
Area: 3011752  
Amount: 5.374074  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:05:22 -04:00:00 (UTC)

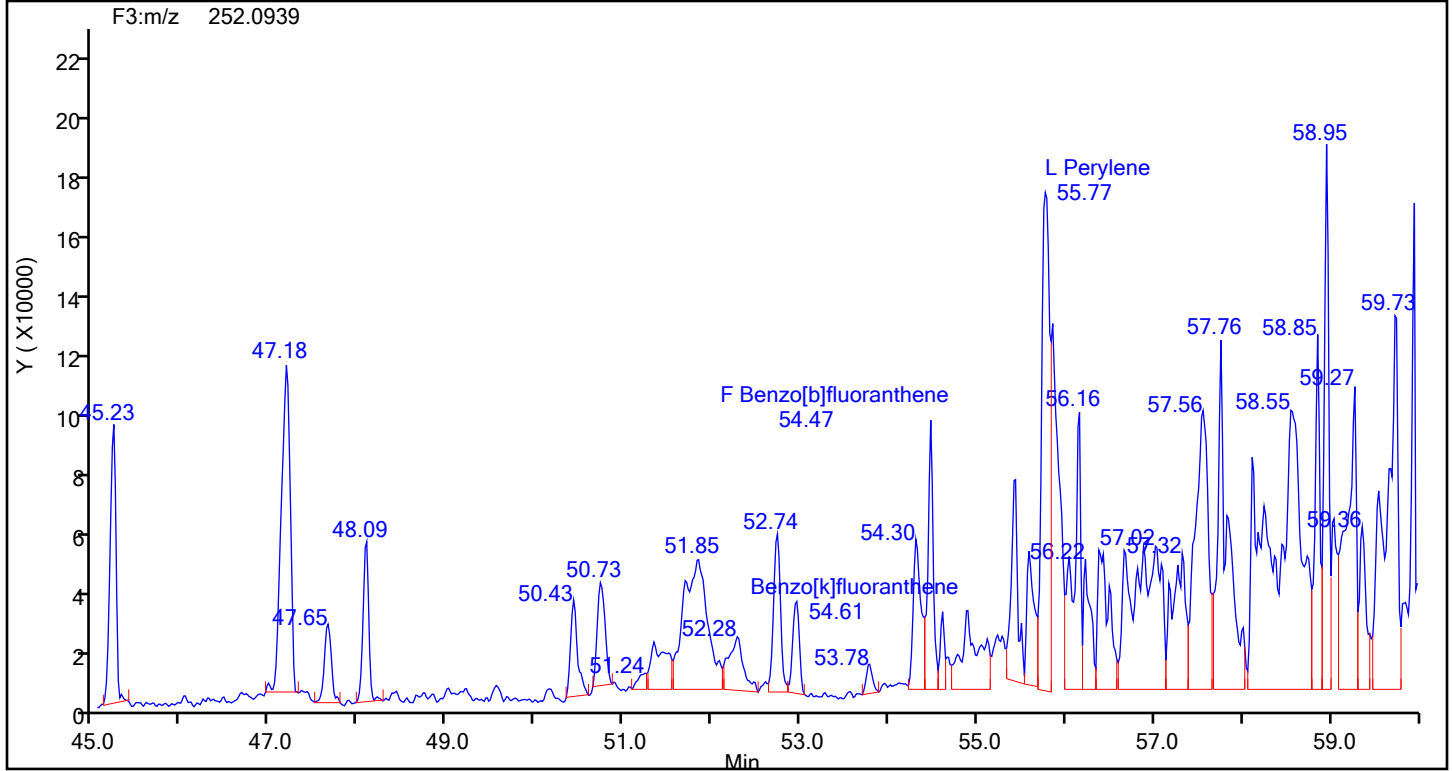
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

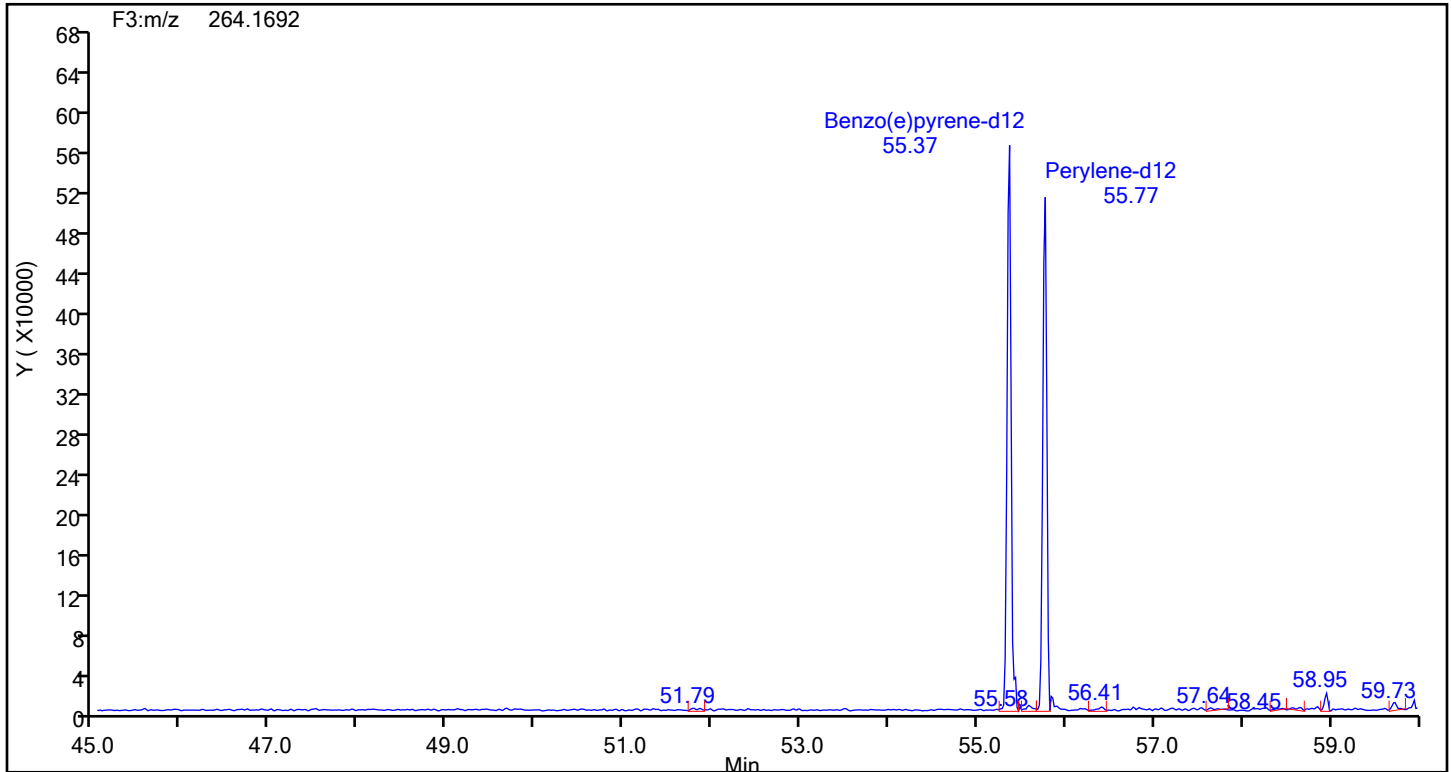
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Perylene



## Perylene Standards



## Eurofins Knoxville

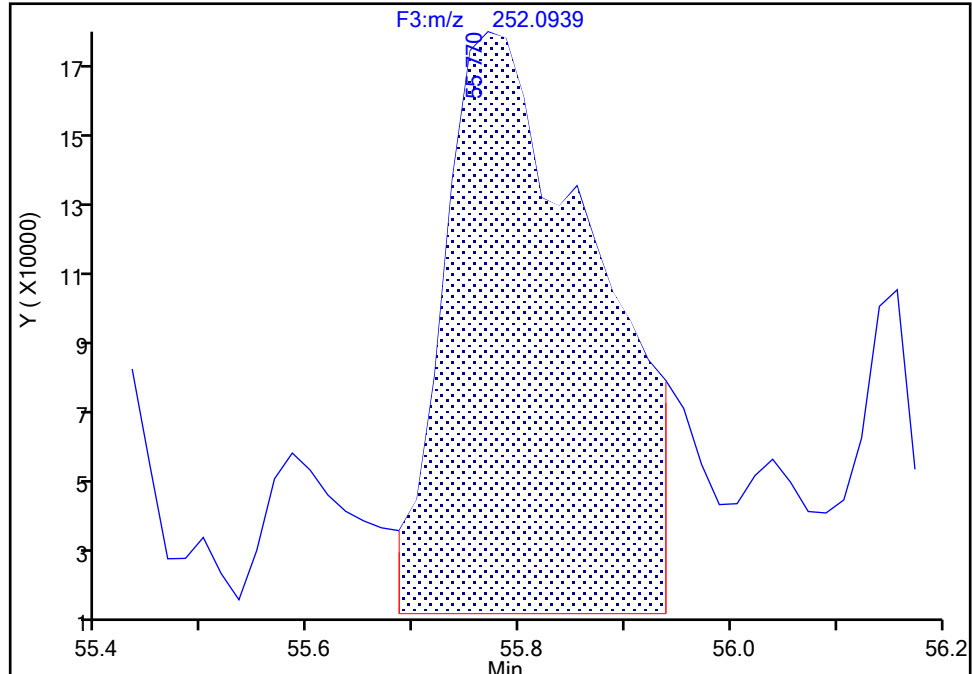
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1\IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

Perylene, CAS: 198-55-0

Signal: 1

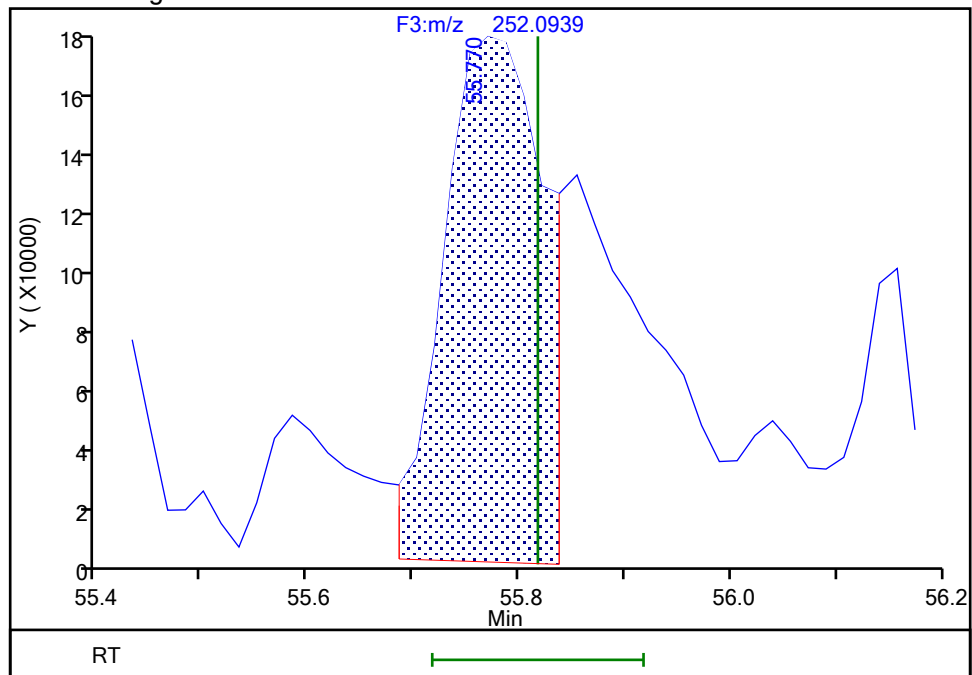
RT: 55.77  
Area: 1587051  
Amount: 6.875358  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.77  
Area: 1103878  
Amount: 4.782175  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:05:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d

Injection Date: 17-Jul-2024 06:42:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

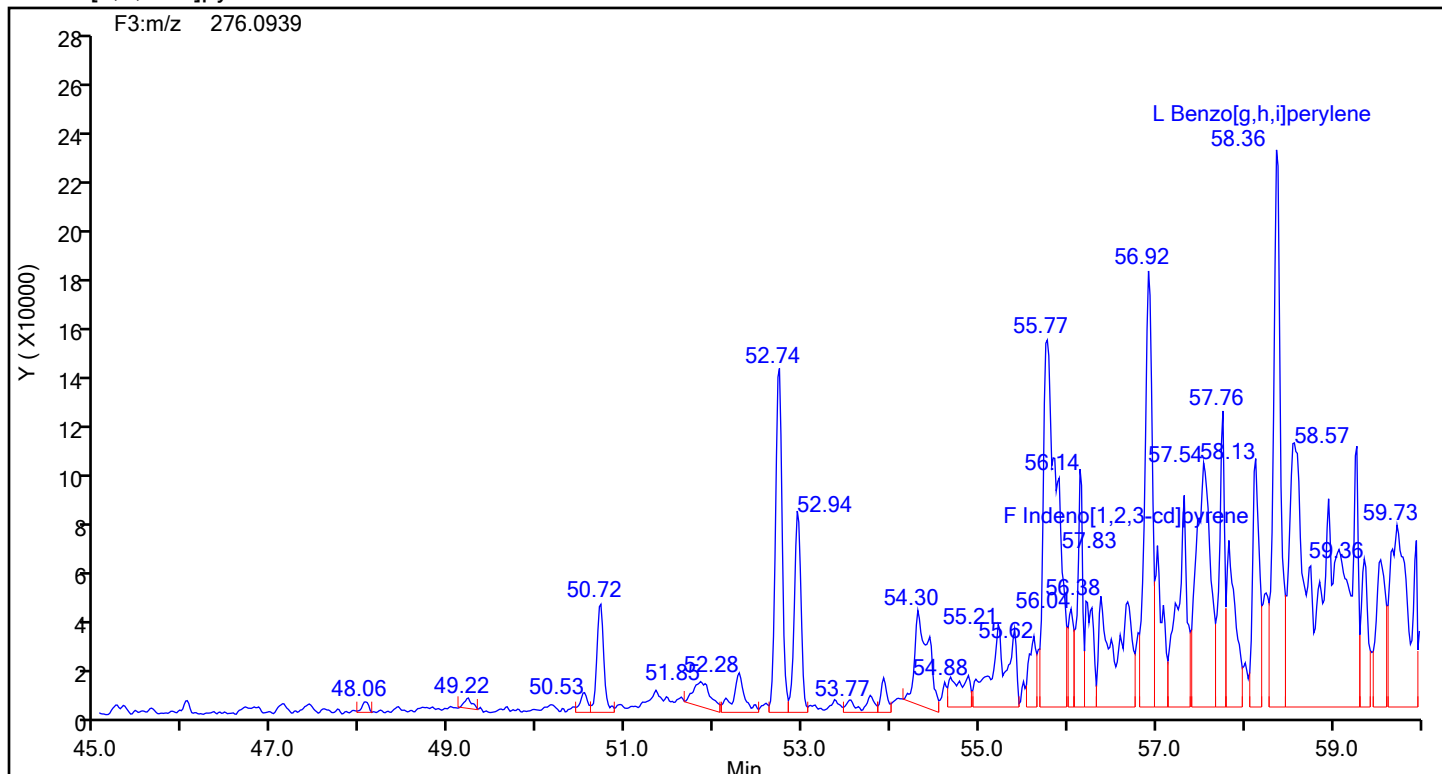
Worklist#: 88831

Sample Line#: 10

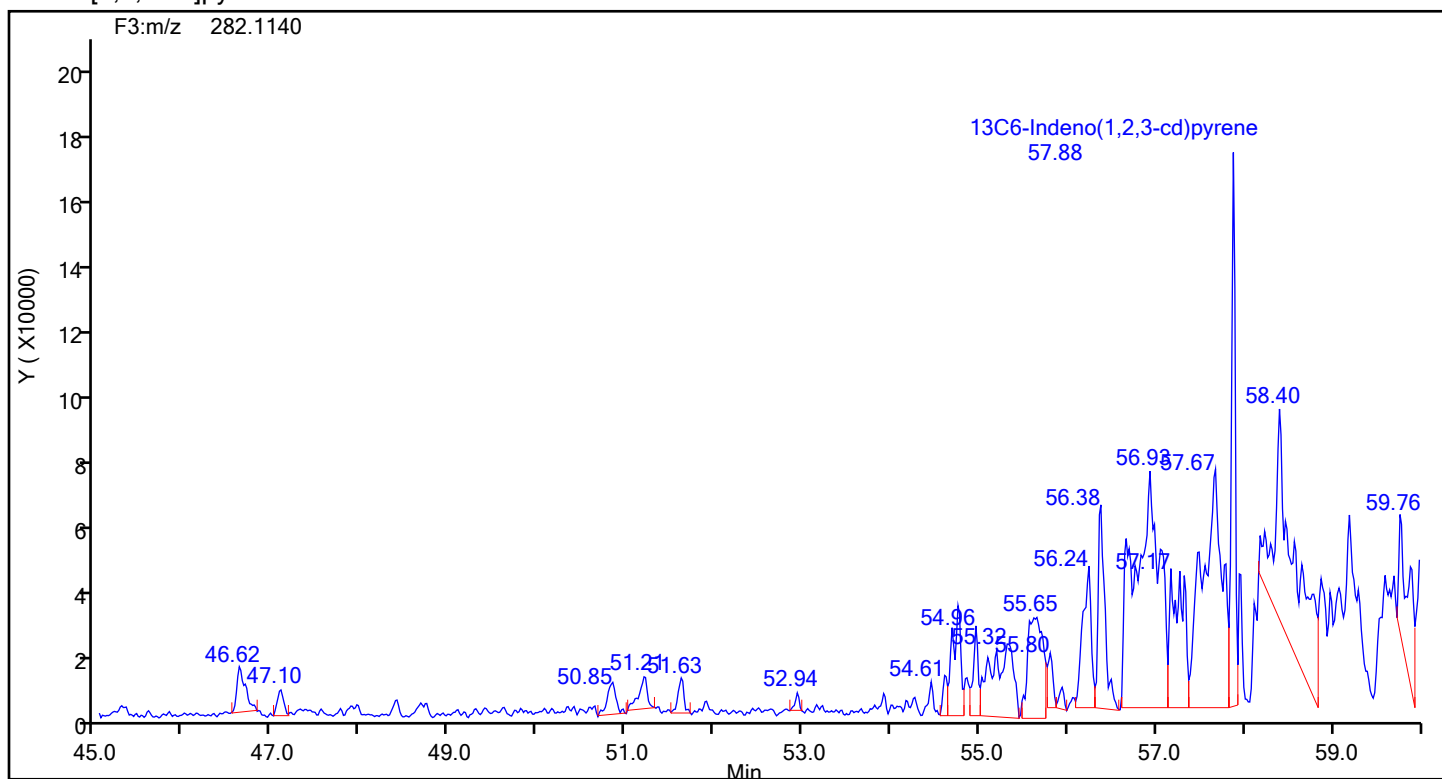
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

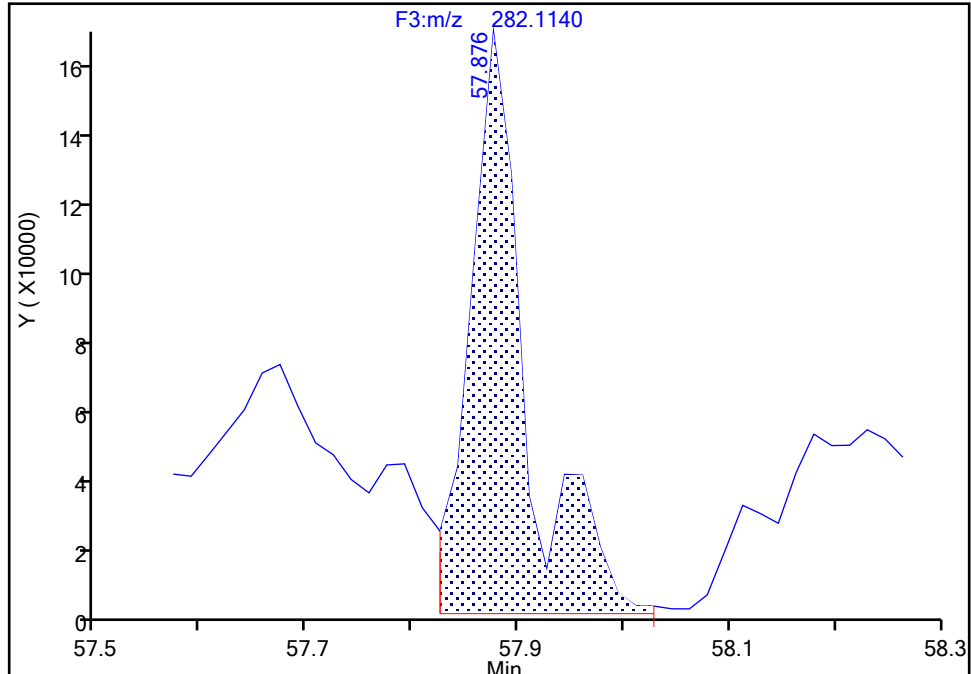
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Injection Date: 17-Jul-2024 06:42:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-7-D Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

**13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2**

Signal: 1

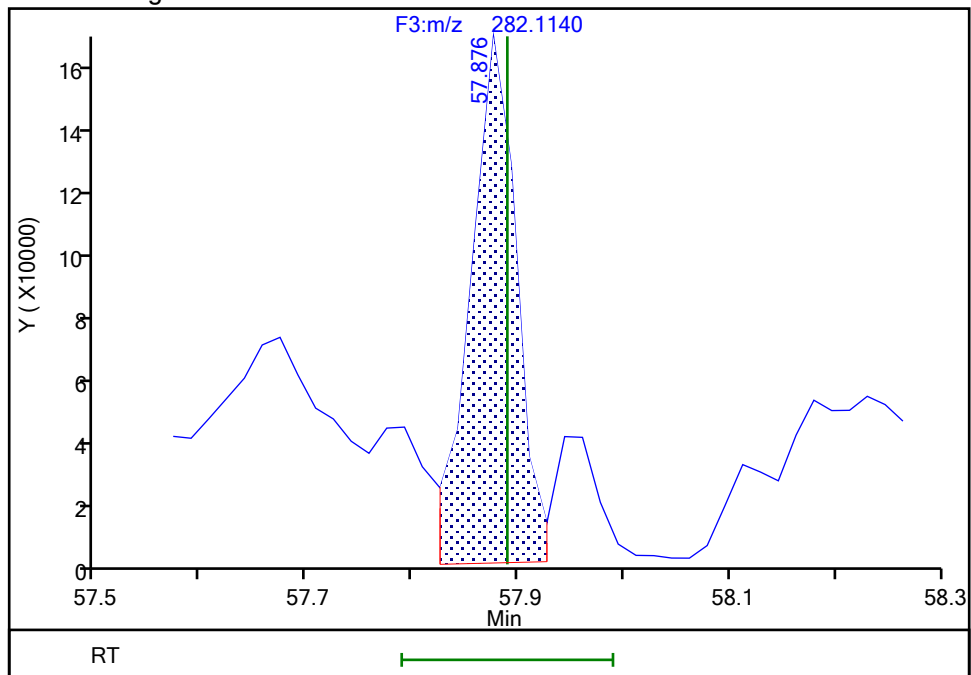
RT: 57.88  
Area: 605475  
Amount: 1.639640  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.88  
Area: 506678  
Amount: 1.372095  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 16:05:55 -04:00:00 (UTC)

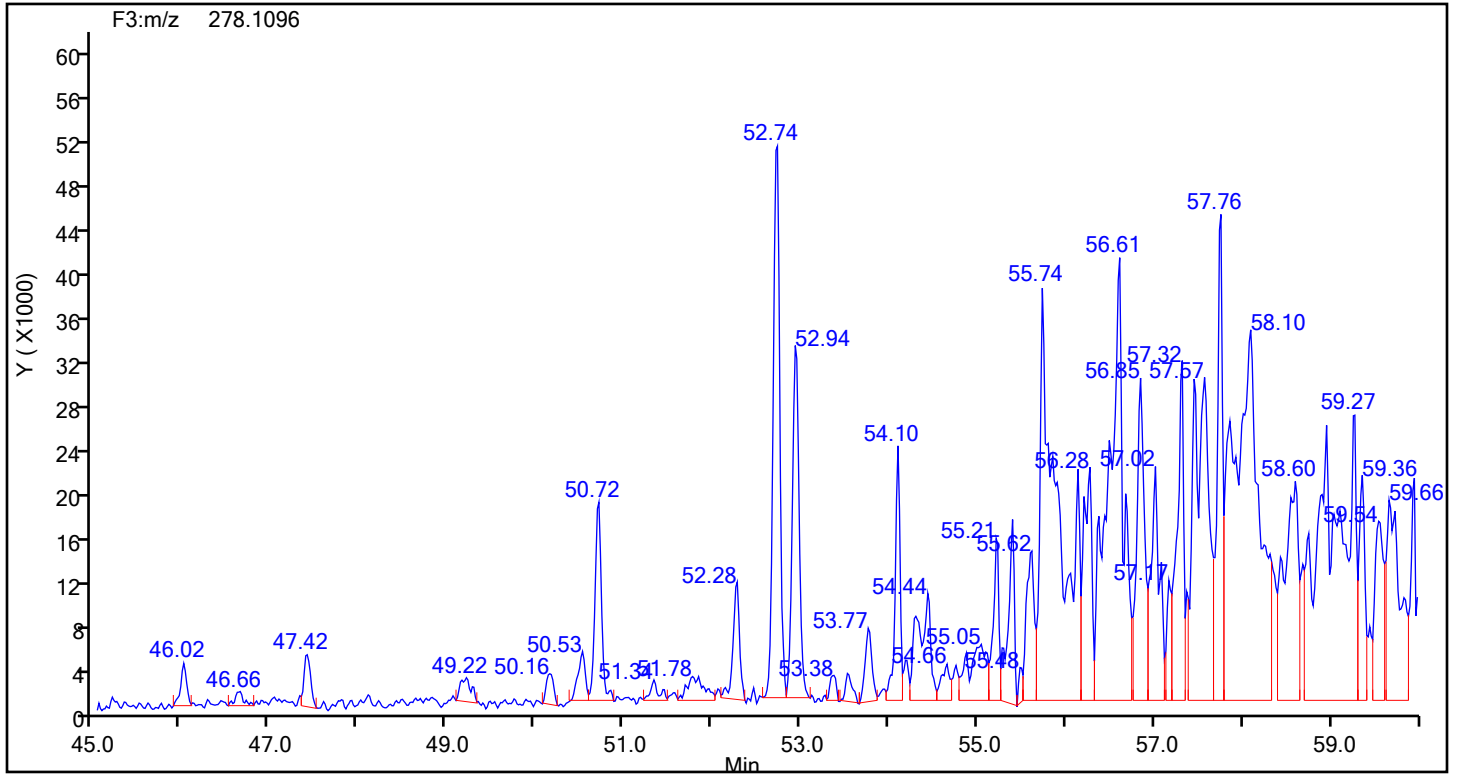
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

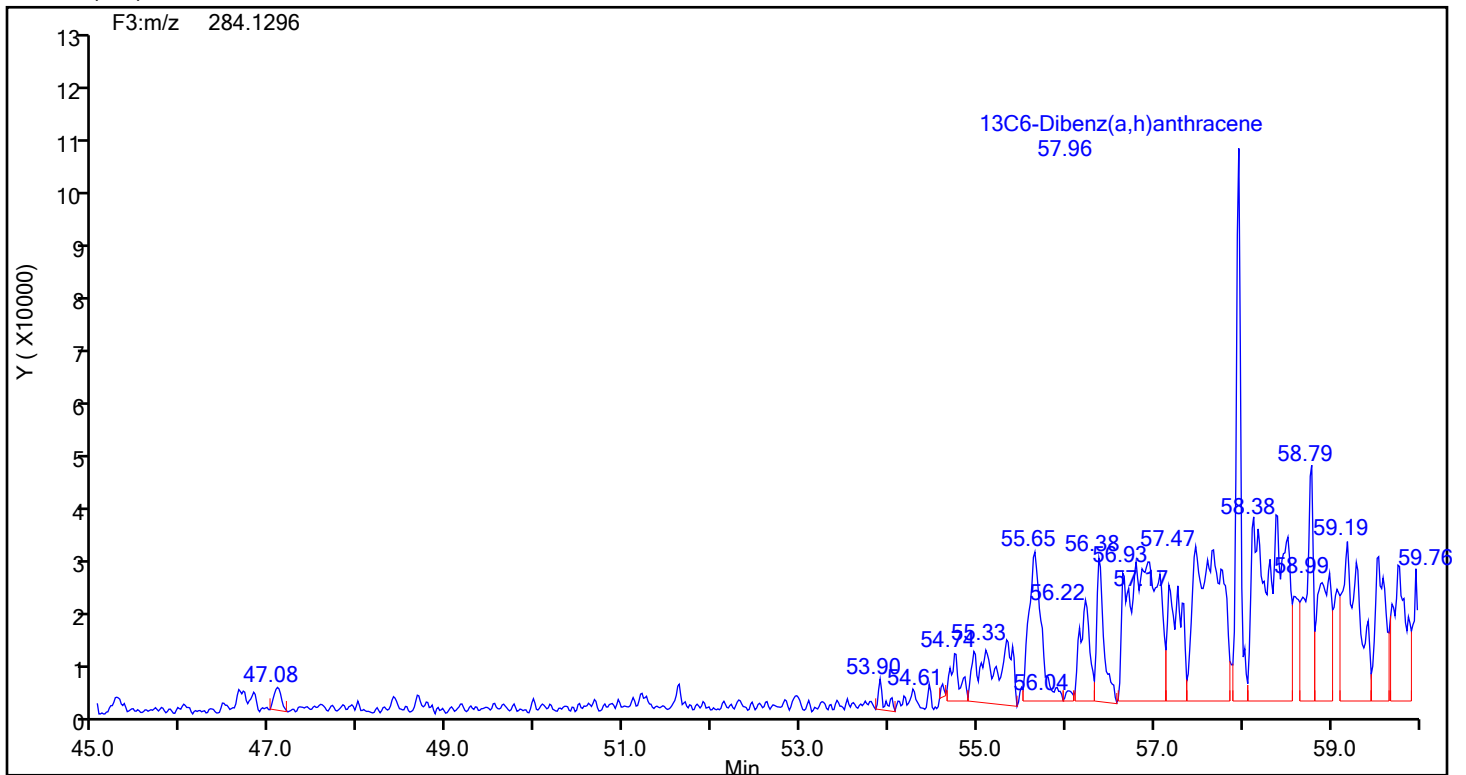
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d  
Injection Date: 17-Jul-2024 06:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88831 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d

Injection Date: 17-Jul-2024 06:42:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED

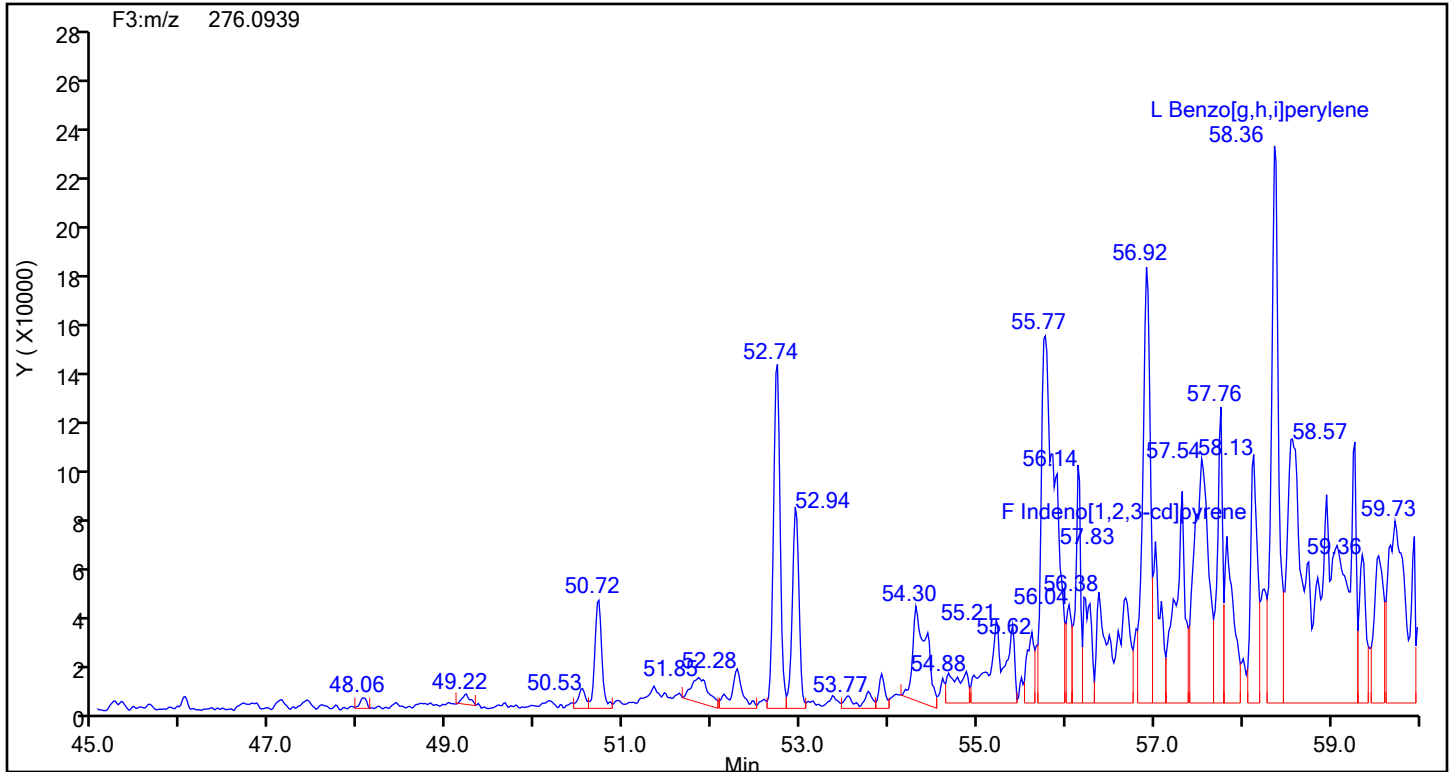
Worklist#: 88831

Sample Line#: 10

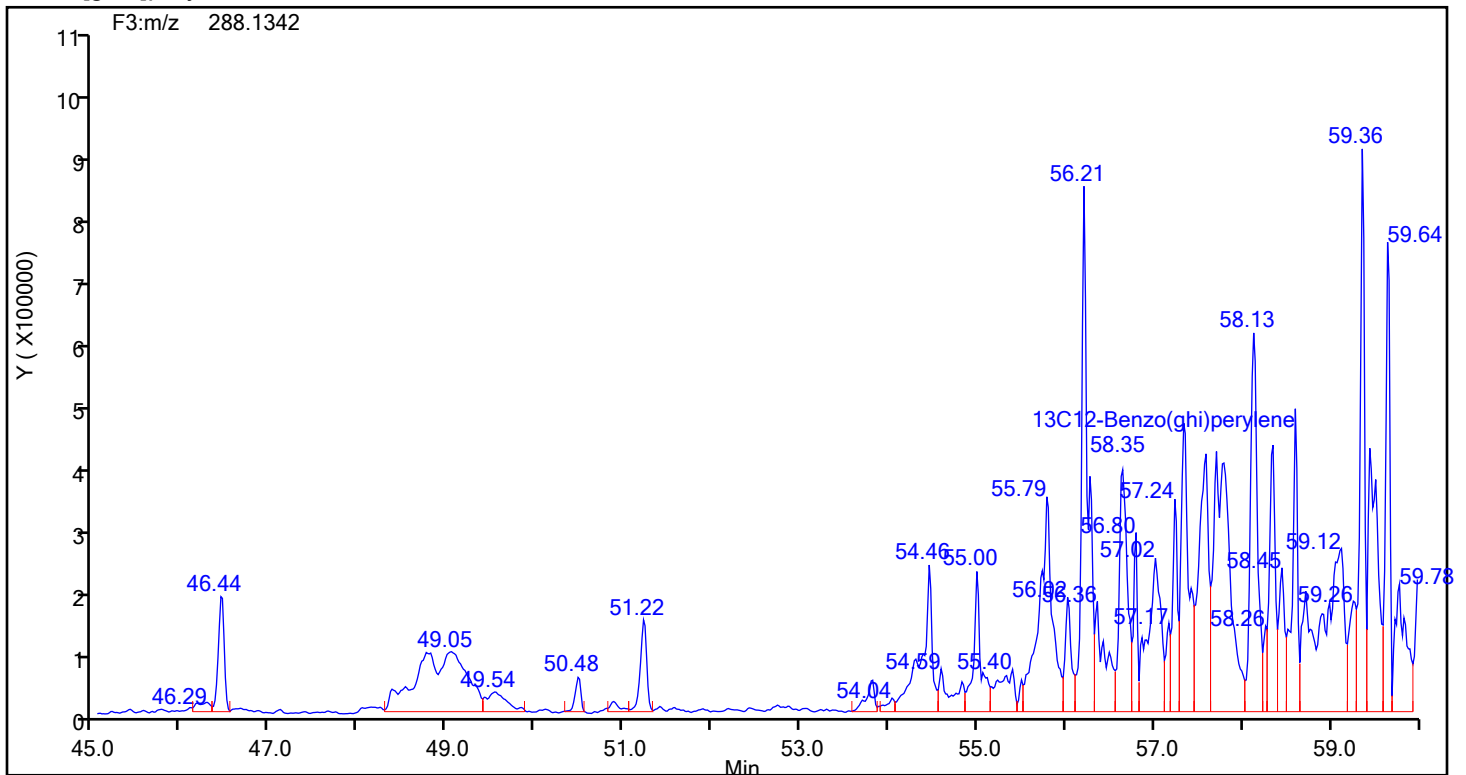
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-7-d.d  
Lims ID: 140-36940-A-7-D  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 06:42:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033530-010  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 16:22:42 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 16:06:06

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.6201	62.01
13C6-Benzo(c)fluorene	66.7	6.98	104.64
13C12-Benzo(j)fluoranthene	66.7	1.69	25.28



FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN</u> <u>4-1/IN-701-FIELD</u> <u>BLANK-COMBINED</u>	Lab Sample ID: <u>140-36940-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-8-da.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 10:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/17/2024 16:04</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88872</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	6750	B	750	750	56.2
91-57-6	2-Methylnaphthalene	4430	B	750	750	43.4
208-96-8	Acenaphthylene	ND	G	36.6	30.0	36.6
83-32-9	Acenaphthene	1380	B	300	300	67.0
86-73-7	Fluorene	774	B	300	300	17.4
85-01-8	Phenanthrene	1140	B	60.0	60.0	45.3
120-12-7	Anthracene	ND		300	300	57.0
206-44-0	Fluoranthene	320	B	60.0	60.0	14.1
129-00-0	Pyrene	280	B	60.0	60.0	14.9
56-55-3	Benzo[a]anthracene	48.6	J B	60.0	60.0	13.4
218-01-9	Chrysene	76.4	B	60.0	60.0	7.31
205-99-2	Benzo[b]fluoranthene	89.0	J B	300	300	4.94
207-08-9	Benzo[k]fluoranthene	75.7	B	60.0	60.0	4.95
192-97-2	Benzo[e]pyrene	27.8	J B	60.0	60.0	4.52
50-32-8	Benzo[a]pyrene	70.6		30.0	30.0	4.20
198-55-0	Perylene	21.4	J B	30.0	30.0	4.77
193-39-5	Indeno[1,2,3-cd]pyrene	92.5	B	30.0	30.0	2.48
53-70-3	Dibenz(a,h)anthracene	121	B	60.0	60.0	2.32
191-24-2	Benzo[g,h,i]perylene	1110	B	60.0	60.0	3.32

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN</u> <u>4-1/IN-701-FIELD</u> <u>BLANK-COMBINED</u>	Lab Sample ID: <u>140-36940-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-8-da.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 10:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/17/2024 16:04</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>10</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88872</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	33		20-130
STL03357	13C6-2-Methylnaphthalene	43		20-130
189811-56-1	13C6-Acenaphthylene	38		20-130
189811-57-2	13C6-Acenaphthene	47		20-130
STL00616	13C6-Fluorene	76		20-130
1397194-60-3	13C6-Fluoranthrene	63		20-130
1397214-90-2	13C3-Pyrene	79		20-130
917378-11-1	13C6-Benzo (a) anthracene	48		20-130
1397177-72-8	13C6-Chrysene	64		20-130
STL03358	13C6-Benzo (b) fluoranthene	61		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	61		20-130
STL03382	13C4-Benzo (e) pyrene	55		20-130
STL03359	13C4-Benzo (a) pyrene	74		20-130
1520-96-3	Perylene-d12	62		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	115		20-130
STL03360	13C6-Dibenz (a,h) anthracene	74		20-130
350820-11-0	13C12-Benzo (ghi) perylene	70		20-130
189811-60-7	13C6-Anthracene	48		20-130
1189955-53-0	13C6-Phenanthrene	47		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Lims ID: 140-36940-A-8-D  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 16:04:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033545-006  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 17-Jul-2024 20:58:27 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1682

First Level Reviewer: Q9DB

Date: 17-Jul-2024 20:48:48

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:21	16189		3.3746	3.266	3.266	0.5009	0.5009	32.66	
Naphthalene	11:22	939633		1.2893	450.2	450.2	3.745	3.745		
D 13C6-2-Methylnaphthalene	13:46	10087		1.6031	4.284	4.284	0.1019	0.1019	42.84	
2-Methylnaphthalene	13:46	381212		1.2786	295.6	295.6	2.890	2.890		M
D 13C6-Acenaphthylene	16:38	9162		1.6520	3.776	3.776	0.2174	0.2174	37.76	M
Acenaphthylene	16:39						2.441	2.441		
* Acenaphthene-d10	17:13	7344		3.5E+04	5.000	5.000				
D 13C6-Acenaphthene	17:21	6807		0.9792	4.733	4.733	0.3139	0.3139	47.33	M
Acenaphthene	17:20	79413		1.2697	91.9	91.9	4.468	4.468		
Fluorene	19:36	64343		1.2532	51.6	51.6	1.157	1.157		
D 13C6-Fluorene	19:37	9948		0.8898	7.611	7.611	0.1403	0.1403	76.11	
D 13C6-Phenanthrene	24:59	9785		0.5724	4.687	4.687	0.1612	0.1612	46.87	
Phenanthrene	24:59	82032		1.1044	75.9	75.9	3.020	3.020		
\$ Anthracin-d10	25:11	351		0.4257	0.2261	0.2261	0.006469	0.006469	22.61	
D 13C6-Anthracene	25:17	7922		0.4523	4.802	4.802	0.2040	0.2040	48.02	
Anthracene	25:19						3.797	3.797		
D 13C6-Fluoranthrene	33:41	27343		1.1994	6.251	6.251	0.8806	0.8806	62.51	
Fluoranthene	33:42	67097		1.1513	21.3	21.3	0.9384	0.9384		M
* Pyrene-d10	35:14	18235		7.9E+04	5.000	5.000				
D 13C3-Pyrene	35:22	39008		1.3512	7.916	7.916	0.7001	0.7001	79.16	
Pyrene	35:23	77679		1.0652	18.7	18.7	0.996	0.996		
\$ 13C6-Benzo(c)fluorene	39:06	5303		0.5136	2.831	2.831	0.3271	0.3271	42.47	M
D 13C6-Benzo(a)anthracene	45:55	35357		1.5189	4.773	4.773	0.3784	0.3784	47.73	
Benzo[a]anthracene	45:55	11164		0.9739	3.242	3.242	0.8922	0.8922		
D 13C6-Chrysene	46:10	50595		1.6287	6.370	6.370	0.3529	0.3529	63.70	
Chrysene	46:12	25293		0.9815	5.094	5.094	0.4872	0.4872		
D 13C6-Benzo(b)fluoranthene	54:31	43339		1.4621	6.078	6.078	0.1279	0.1279	60.78	
Benzo[b]fluoranthene	54:31	28919		1.1249	5.932	5.932	0.3293	0.3293		M
\$ 13C12-Benzo(j)fluoranthene	54:33	25837		1.3558	3.907	3.907	0.5632	0.5632	58.61	
D 13C6-Benzo(k)fluoranthene	54:38	52468		1.7507	6.145	6.145	0.1068	0.1068	61.45	
Benzo[k]fluoranthene	54:39	29826		1.1271	5.044	5.044	0.3303	0.3303		M
* Benzo(e)pyrene-d12	55:24	24385		5.7E+04	5.000	5.000				
D 13C4-Benzo(e)pyrene	55:29	43939		1.6368	5.504	5.504	0.2352	0.2352	55.04	
Benzo[e]pyrene	55:29	8140		1.0013	1.850	1.850	0.3012	0.3012		M

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:37	55899		1.5508	7.391	7.391	0.2482	0.2482	73.91	
Benzo[a]pyrene	55:37	29269		1.1130	4.704	4.704	0.2799	0.2799		M
D Perylene-d12	55:48	35916		1.1917	6.180	6.180	0.5282	0.5282	61.80	
Perylene	55:52	7322		1.4307	1.425	1.425	0.3177	0.3177		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	57304		1.0218	11.5	11.5	0.2678	0.2678	115	
Indeno[1,2,3-cd]pyrene	57:55	39749		1.1249	6.166	6.166	0.1650	0.1650		M
D 13C6-Dibenz(a,h)anthracene	58:00	37962		1.0553	7.376	7.376	0.1859	0.1859	73.76	
Dibenz(a,h)anthracene	58:00	34777		1.1314	8.097	8.097	0.1547	0.1547		M
D 13C12-Benzo(ghi)perylene	58:22	43802		1.2749	7.045	7.045	0.0873	0.0873	70.45	
Benzo[g,h,i]perylene	58:23	415134		1.2838	73.8	73.8	0.2211	0.2211		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
 Lims ID: 140-36940-A-8-D  
 Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
 Sample Type: Client  
 Inject. Date: 17-Jul-2024 16:04:00 ALS Bottle#: 0 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 10.0000  
 Sample Info:  
 Misc. Info.: 140-0033545-006  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAL ICAL  
 Last Update: 17-Jul-2024 20:58:27 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1682

First Level Reviewer: Q9DB

Date: 17-Jul-2024 20:48:48

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:21	11:24	-4	0.660	16189	6042	352	880	17		
Naphthalene											
128.0626	11:22	11:28	-4	1.001	939633	271068	1167	2917	232		
13C6-2-Methylnaphthalene											
148.0984	13:46	13:46	-2	0.800	10087	3599	34	85	106		
2-Methylnaphthalene											
142.0783	13:46	13:47	-2	1.001	381212	153478	532	1330	288		M
13C6-Acenaphthylene											
158.0828	16:38	16:36	-1	0.967	9162	3289	75	187	44		M
Acenaphthylene											
152.0626	16:39						450	1125			
Acenaphthene-d10											
164.1404	17:13	17:14	-1		7344	2603	24	60	108		
13C6-Acenaphthene											
160.0984	17:21	17:21	0	1.008	6807	1948	64	160	30		M
Acenaphthene											
154.0783	17:20	17:20	-1	0.999	79413	26527	442	1105	60		M
Fluorene											
166.0783	19:36	19:36	-1	0.999	64343	15155	333	832	46		
13C6-Fluorene											
172.0984	19:37	19:36	0	1.140	9948	5737	26	65	221		
13C6-Phenanthrene											
184.0984	24:59	25:00	1	0.709	9785	2914	27	67	108		
Phenanthrene											
178.0783	24:59	24:57	0	1.000	82032	17466	389	972	45		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:11	25:08	-1	0.715	351	212	1	2	212		
13C6-Anthracene											
184.0984	25:17	25:17	-2	0.718	7922	1884	27	67	70		
Anthracene											
178.0783	25:19						389	972			
13C6-Fluoranthrene											
208.0984	33:41	33:41	-1	0.956	27343	5942	307	767	19		
Fluoranthene											
202.0783	33:42	33:42	-1	1.001	67097	11100	257	642	43		M
Pyrene-d10											
212.1404	35:14	35:15	-1		18235	3631	42	105	86		
13C3-Pyrene											
205.0883	35:22	35:21	-1	1.004	39008	6053	275	687	22		
Pyrene											
202.0783	35:23	35:21	-1	1.000	77679	12960	257	642	50		
13C6-Benzo(c)fluorene											
222.1134	39:06	39:06	1	0.706	5303	876	49	122	18		M
13C6-Benzo(a)anthracene											
234.1140	45:55	45:51	0	1.303	35357	5352	252	630	21		
Benzo[a]anthracene											
228.0939	45:55	45:53	0	1.000	11164	1994	186	465	11		
13C6-Chrysene											
234.1140	46:10	46:07	-1	1.311	50595	9724	252	630	39		
Chrysene											
228.0939	46:12	46:09	1	1.001	25293	3218	186	465	17		
13C6-Benzo(b)fluoranthene											
258.1140	54:31	54:30	-1	0.984	43339	11472	82	205	140		
Benzo[b]fluoranthene											
252.0939	54:31	54:31	-1	1.000	28919	6964	170	425	41		M
13C12-Benzo(j)fluoranthene											
264.1336	54:33	54:33	-1	0.985	25837	6481	335	837	19		
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:37	-1	0.986	52468	11418	82	205	139		
Benzo[k]fluoranthene											
252.0939	54:39	54:39	0	1.000	29826	4907	170	425	29		M
Benzo(e)pyrene-d12											
264.1692	55:24	55:24	-1		24385	5481	276	690	20		
13C4-Benzo(e)pyrene											
256.1073	55:29	55:27	0	1.002	43939	14094	169	422	83		
Benzo[e]pyrene											
252.0939	55:29	55:30	-1	1.000	8140	1993	170	425	12		M
13C4-Benzo(a)pyrene											
256.1073	55:37	55:36	-1	1.004	55899	13641	169	422	81		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:37	55:36	-1	1.000	29269	7542	170	425	44		M
Perylene-d12											
264.1692	55:48	55:46	0	1.007	35916	9351	276	690	34		
Perylene											M
252.0939	55:52	55:50	0	1.001	7322	1322	170	425	8		M
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:55	57:54	0	1.046	57304	16966	120	300	141		
Indeno[1,2,3-cd]pyrene											M
276.0939	57:55	57:54	-1	1.000	39749	12437	126	315	99		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	57:58	0	1.047	37962	9826	86	215	114		
Dibenz(a,h)anthracene											M
278.1096	58:00	57:58	0	1.000	34777	11115	69	172	161		M
13C12-Benzo(ghi)perylene											
288.1342	58:22	58:23	-1	1.054	43802	11099	49	122	227		
Benzo[g,h,i]perylene											M
276.0939	58:23	58:21	0	1.000	415134	127232	126	315	1010		M

### QC Flag Legend

Processing Flags

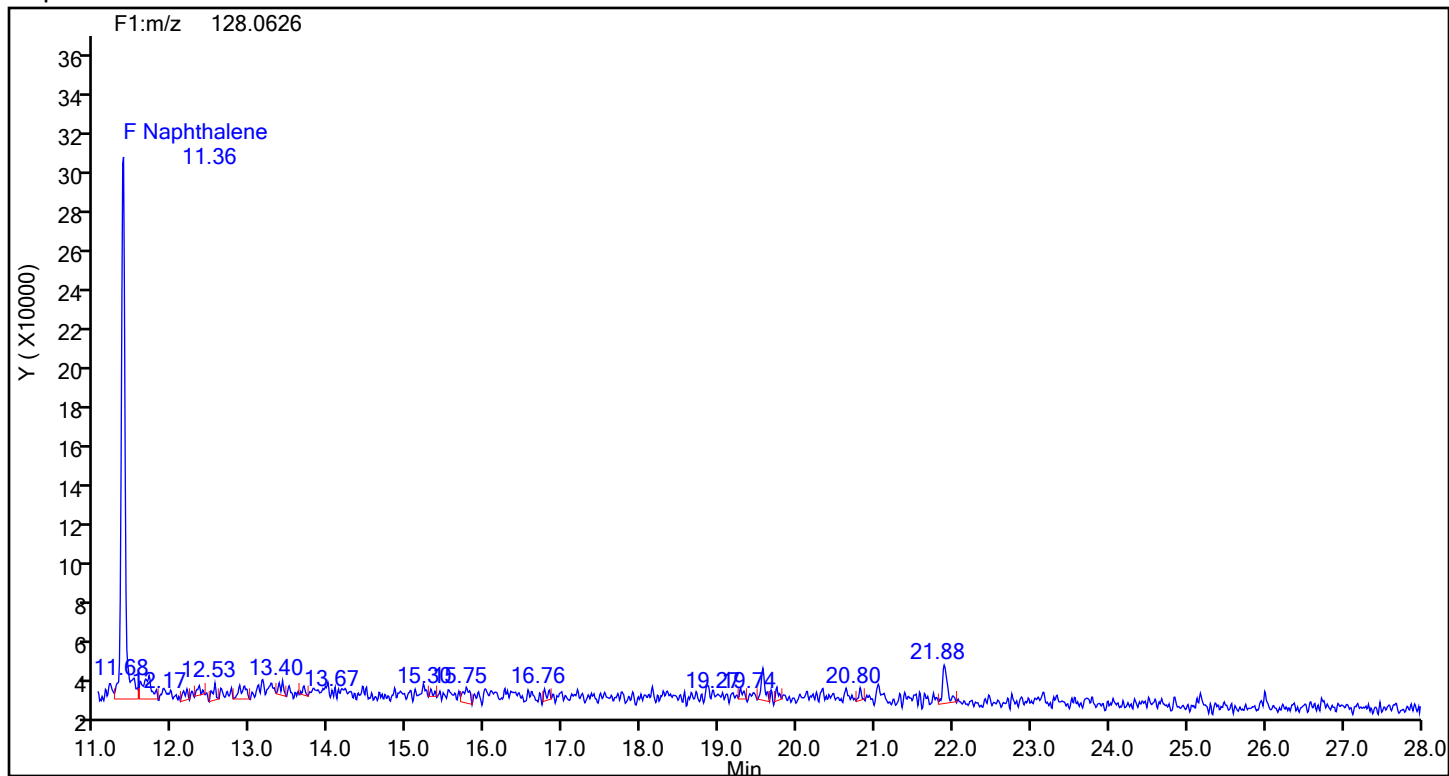
Review Flags

M - Manually Integrated

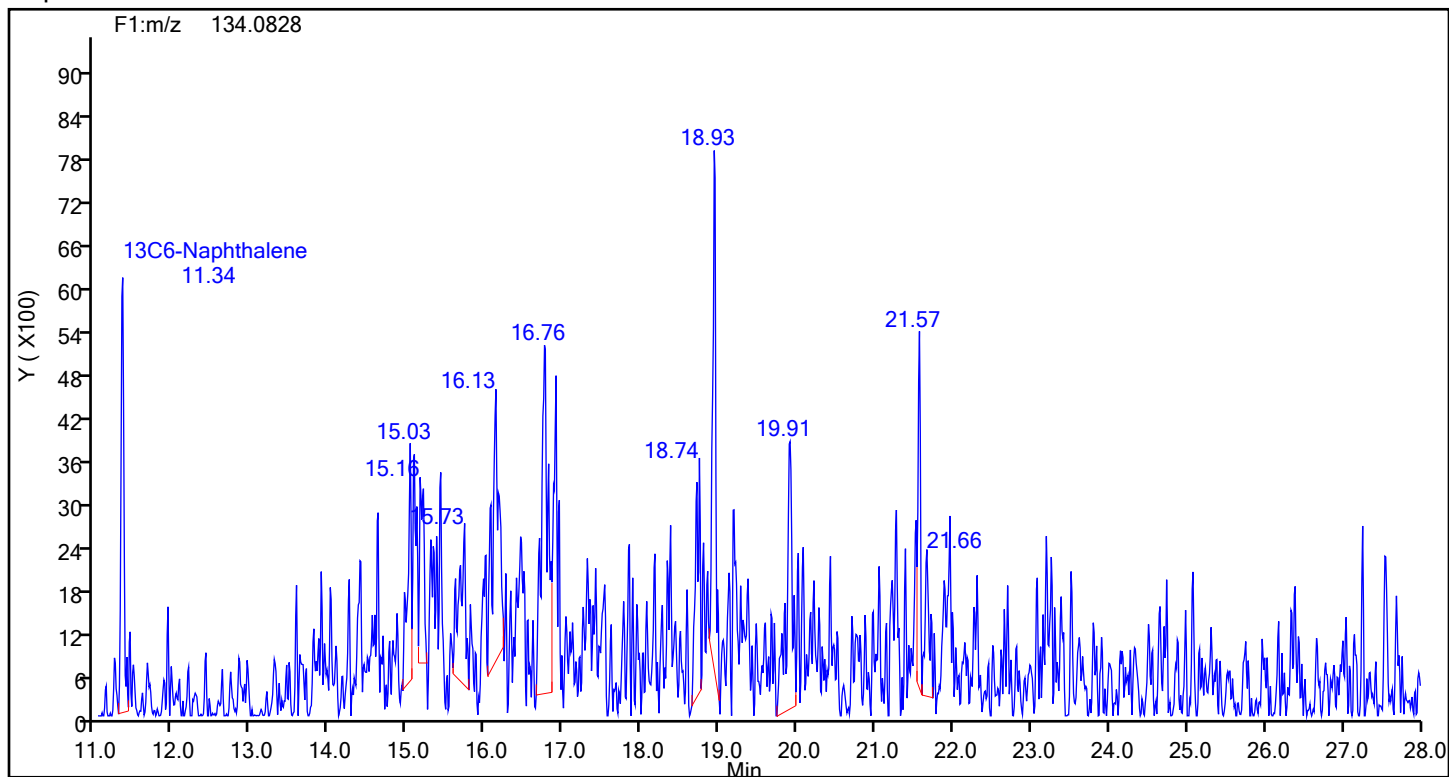
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards

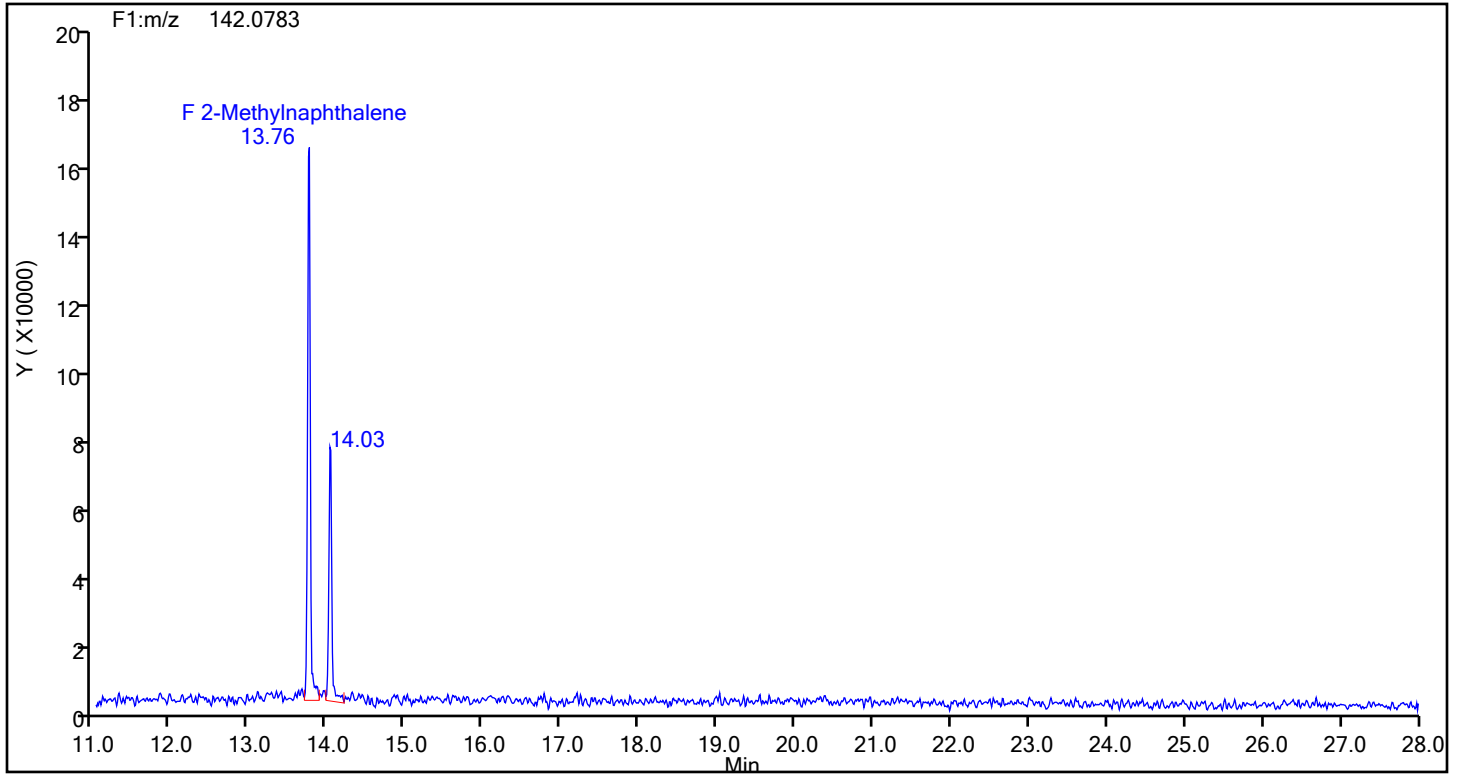




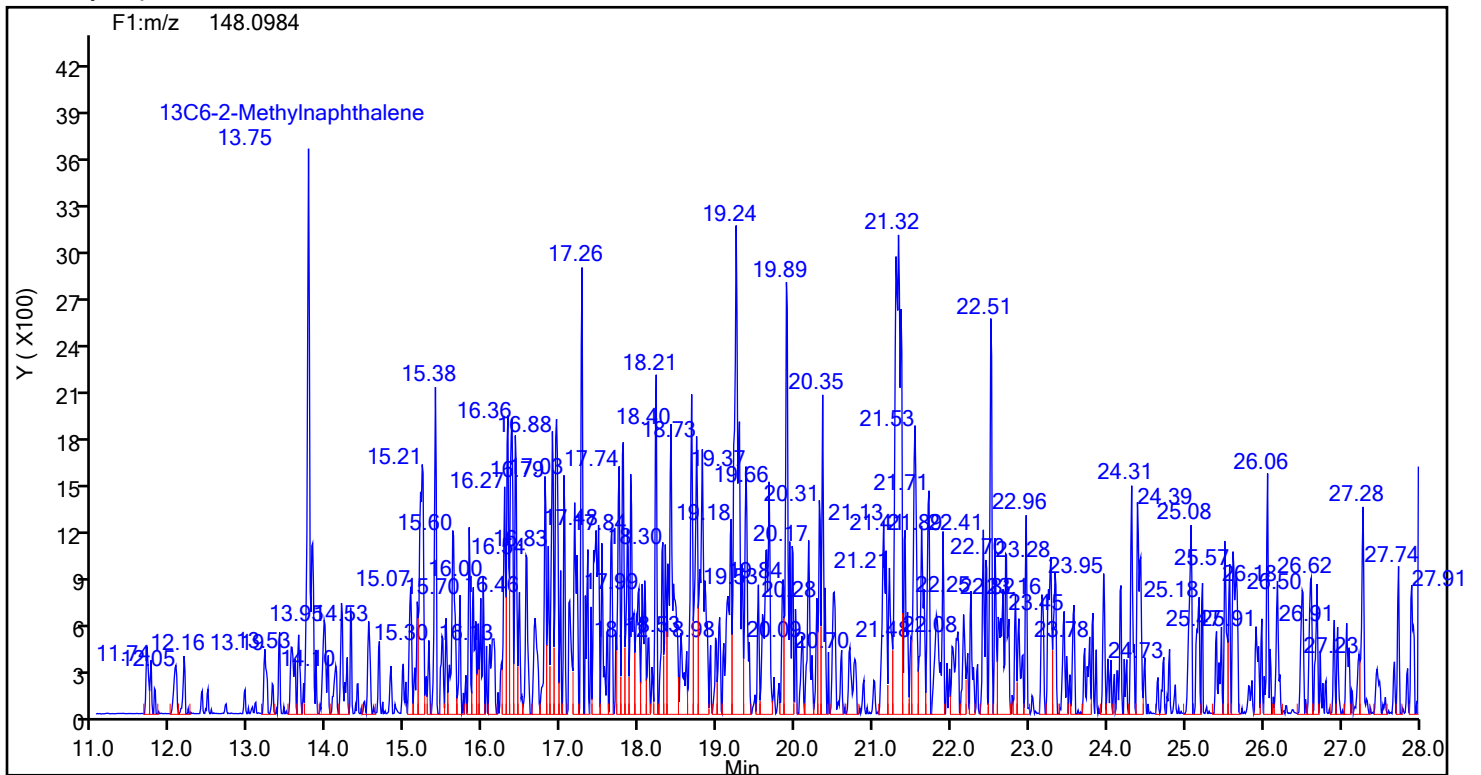
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



## 2-Methylnaphthalene Standards



## Eurofins Knoxville

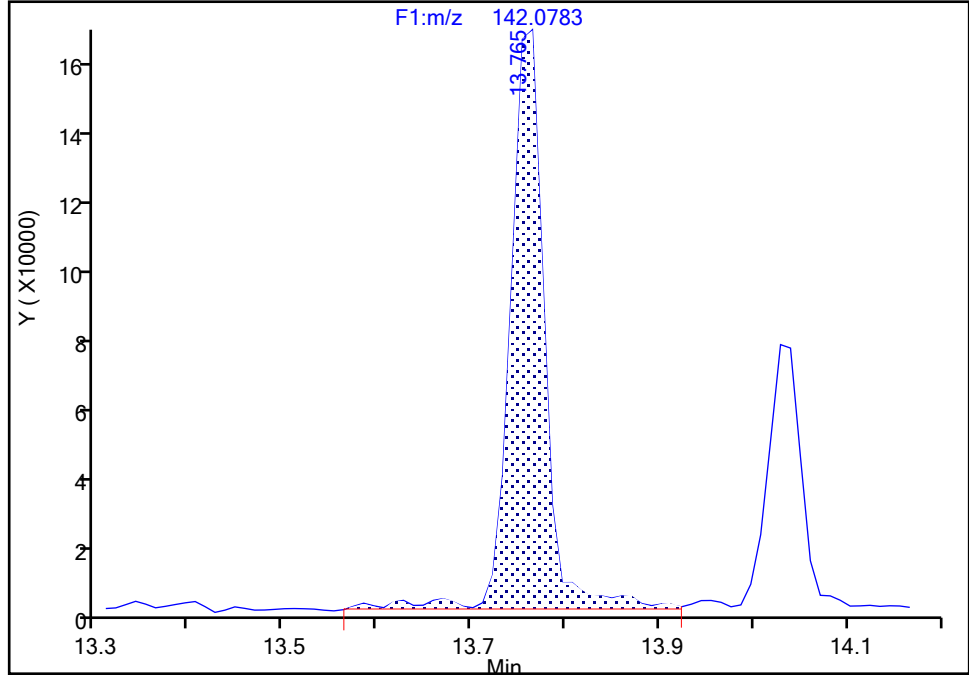
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F1(6.03 :27.99 )

**2-Methylnaphthalene, CAS: 91-57-6**

Signal: 1

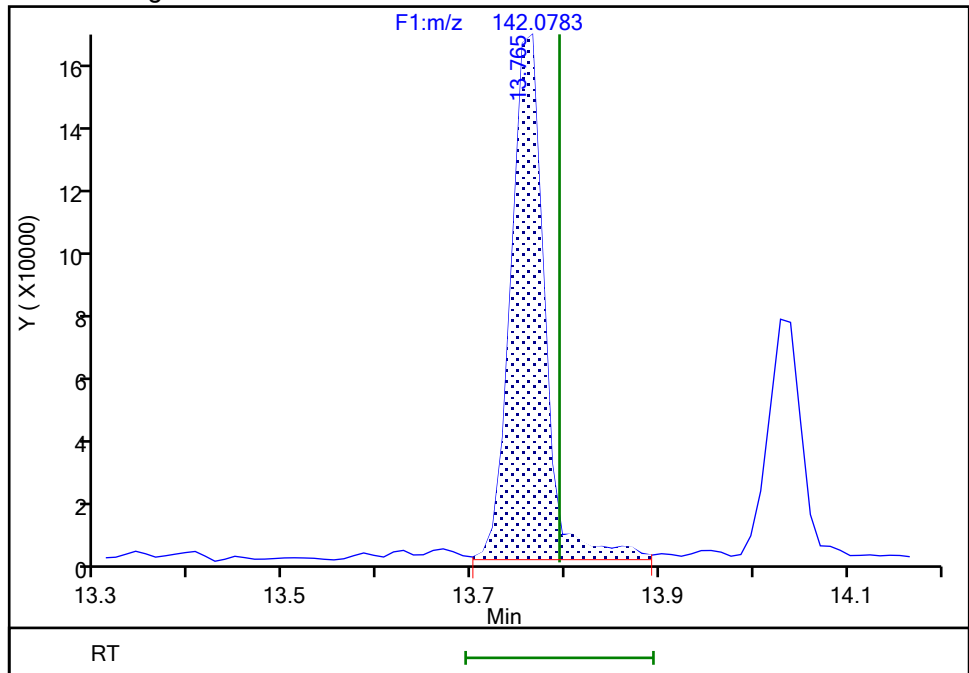
RT: 13.76  
Area: 397152  
Amount: 307.9438  
Amount Units: pg/ul

## Processing Integration Results



RT: 13.76  
Area: 381212  
Amount: 295.5842  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:45:49 -04:00:00 (UTC)

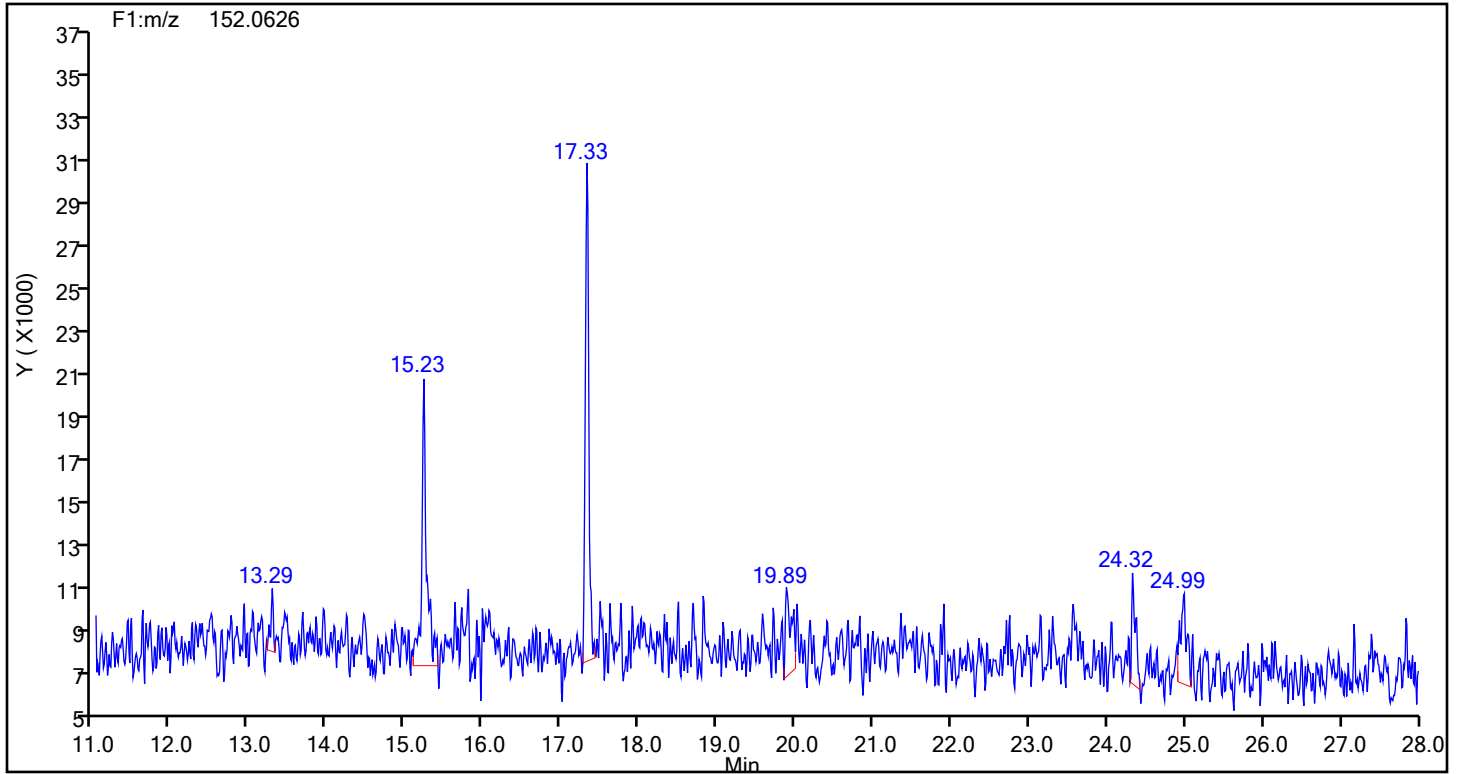
Audit Action: Manually Integrated

Audit Reason: Baseline

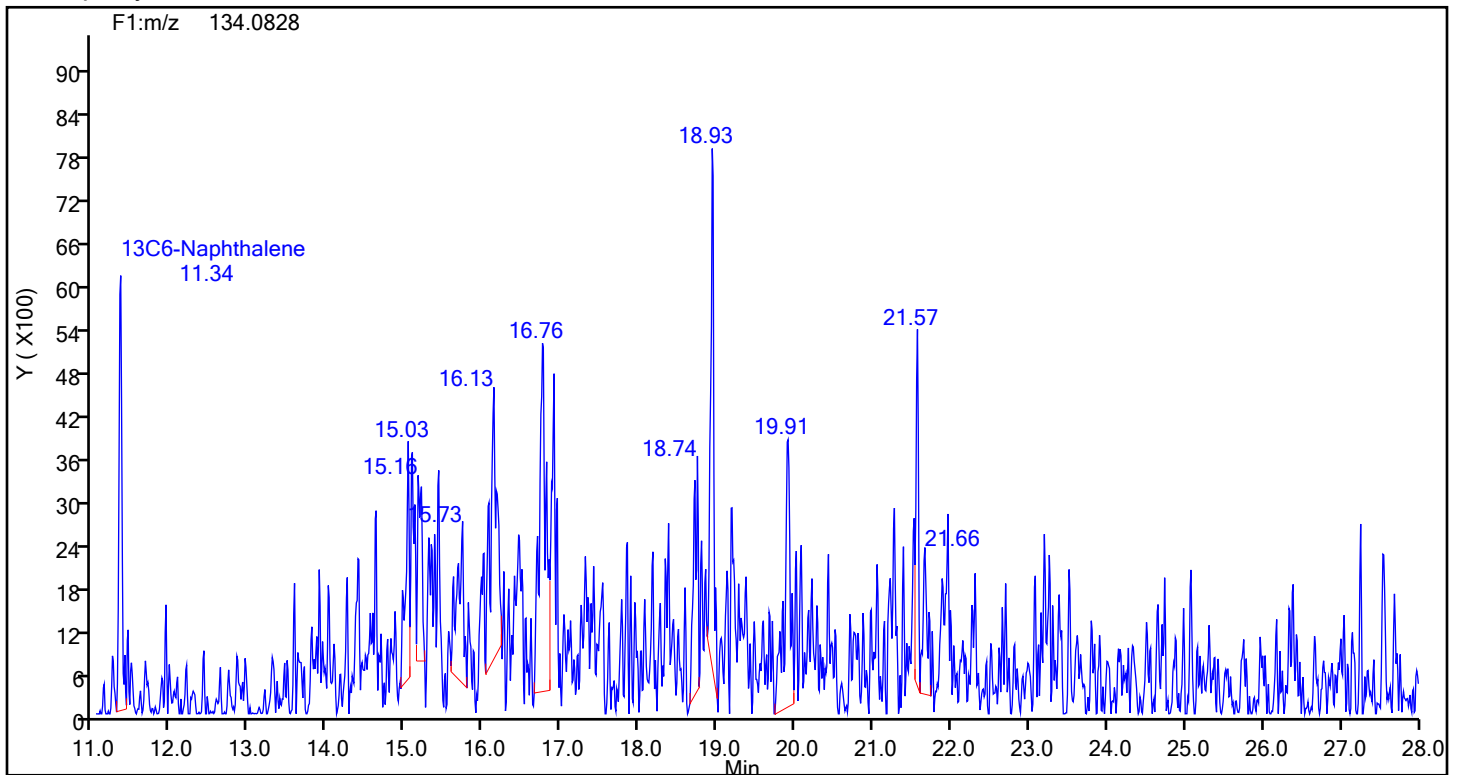
## Eurofins Knoxville

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Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



## Acenaphthylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d

Injection Date: 17-Jul-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED

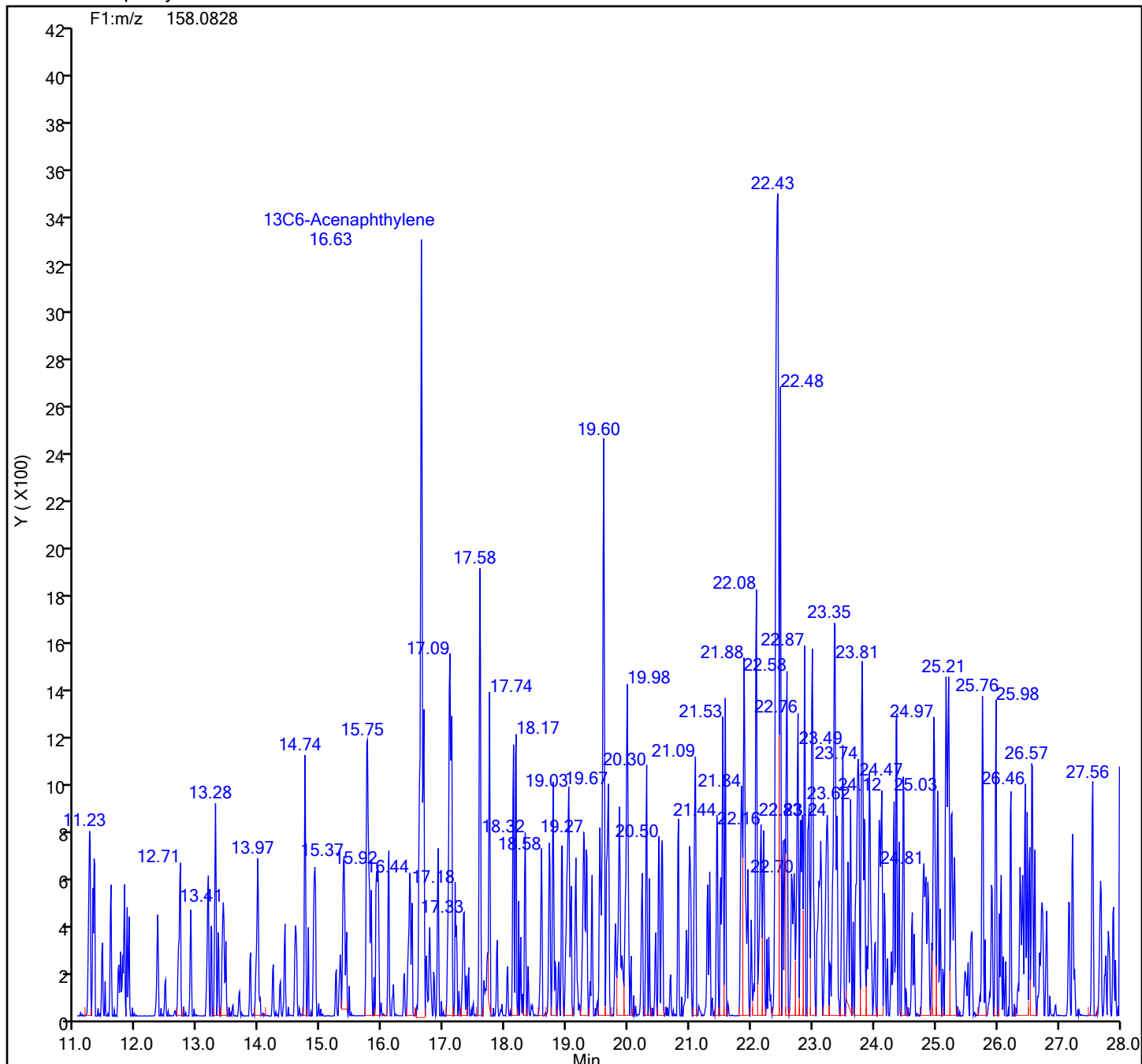
Worklist#: 88872

Sample Line#: 6

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## 13C6-Acenaphthylene Standards



## Eurofins Knoxville

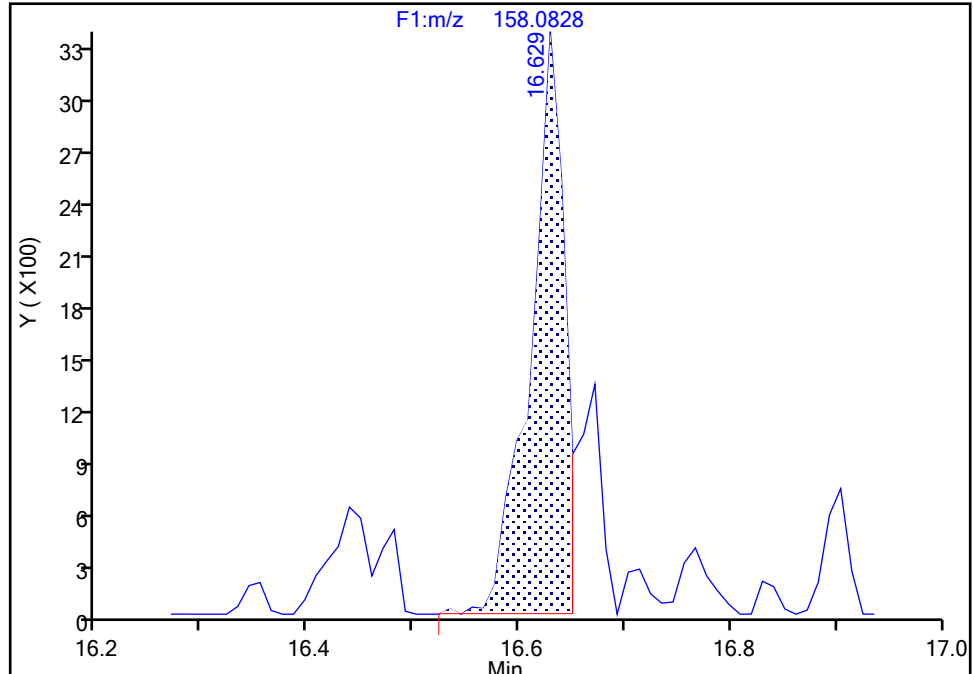
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**13C6-Acenaphthylene, CAS: 189811-56-1**

Signal: 1

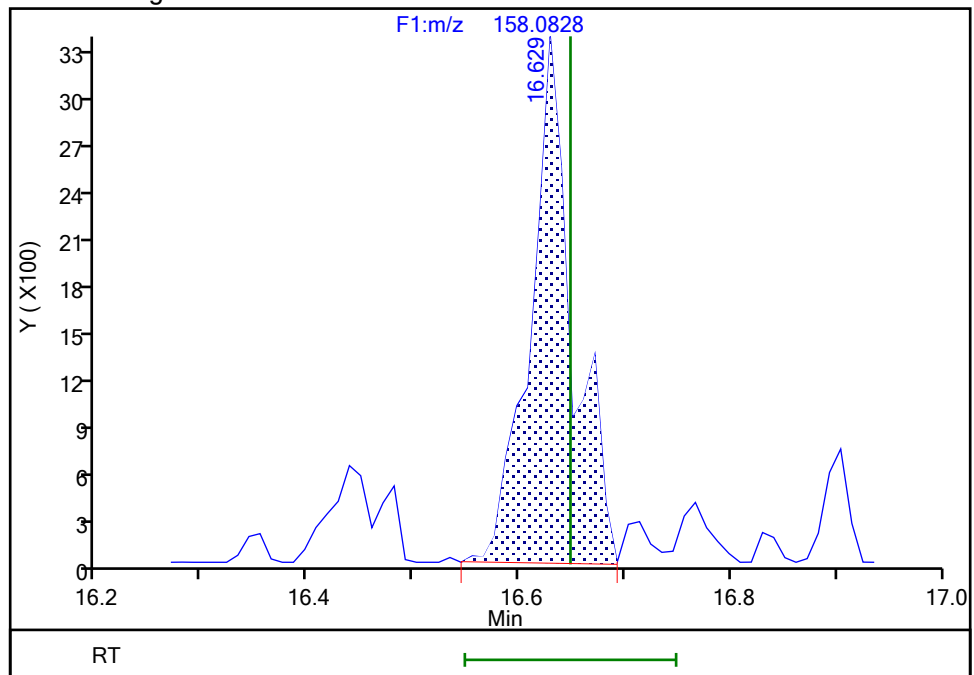
RT: 16.63  
Area: 7157  
Amount: 2.949533  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.63  
Area: 9162  
Amount: 3.775831  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:45:59 -04:00:00 (UTC)

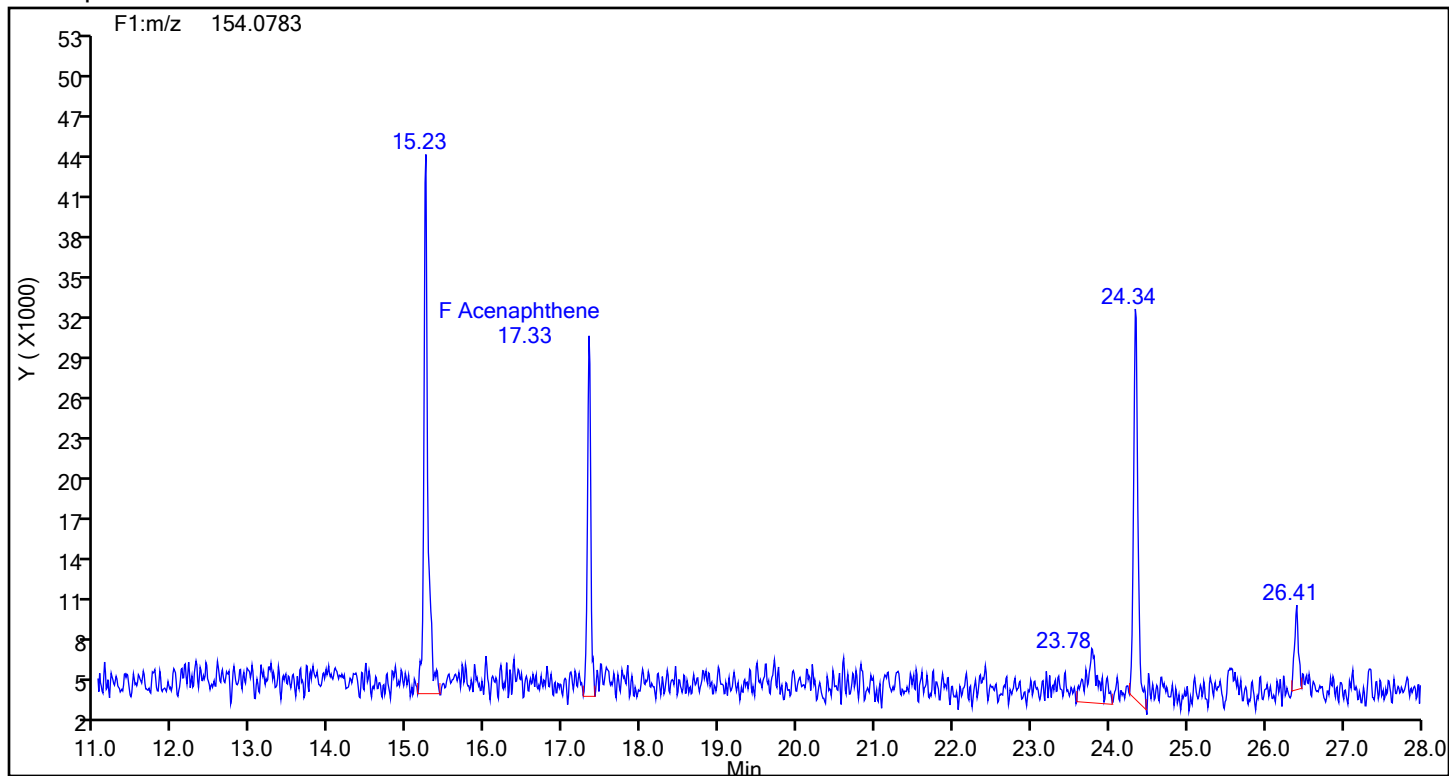
Audit Action: Manually Integrated

Audit Reason: Baseline

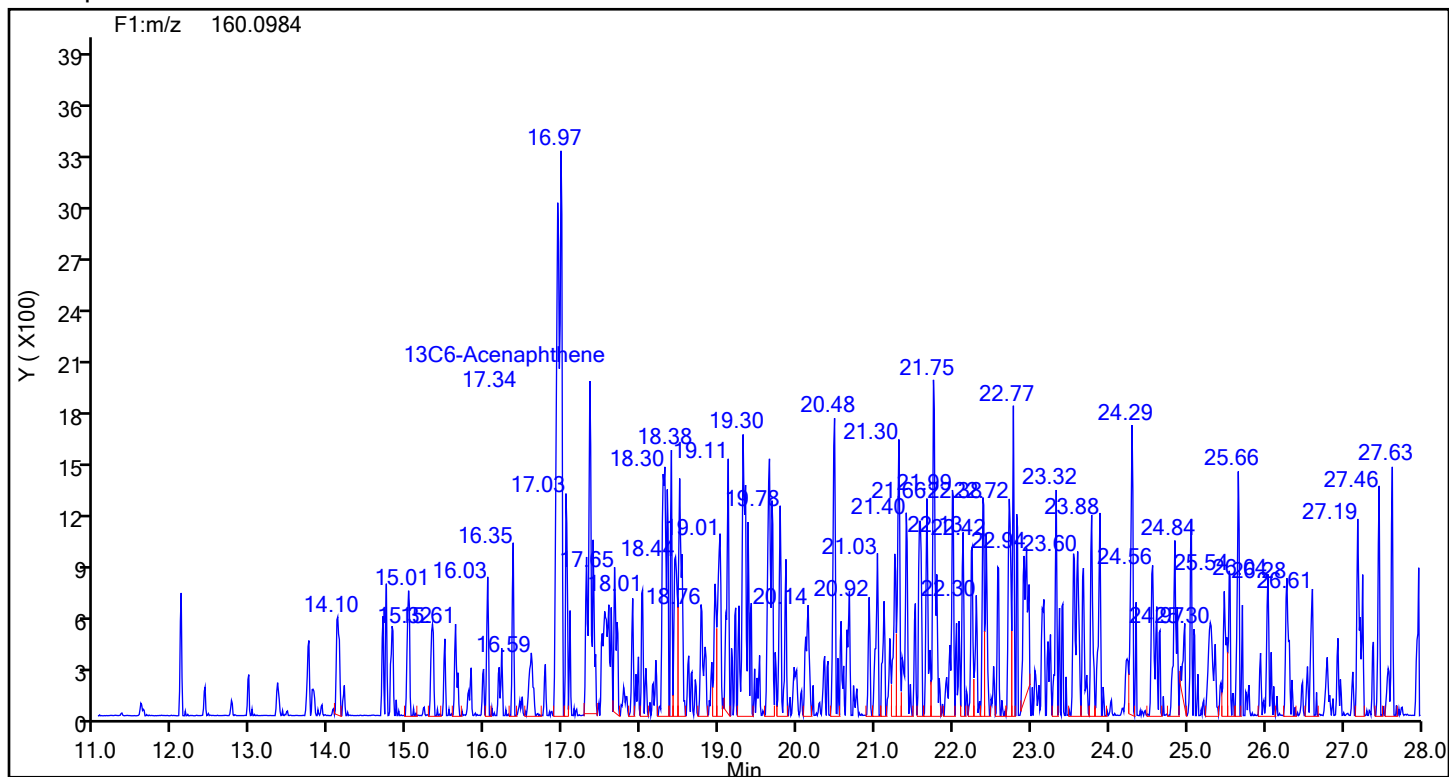
## Eurofins Knoxville

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Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



## Acenaphthene Standards



## Eurofins Knoxville

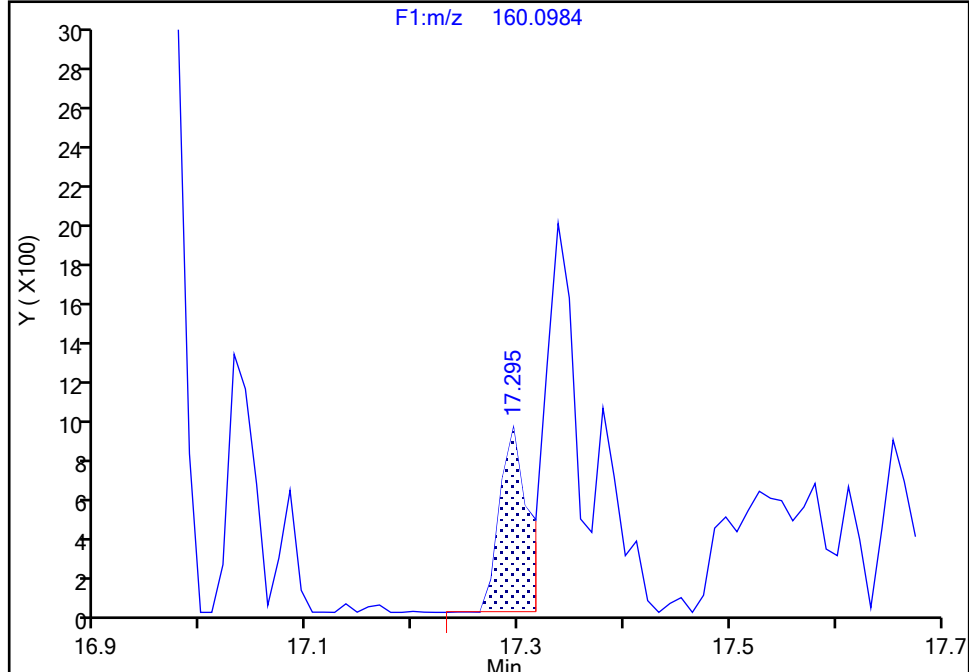
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Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**13C6-Acenaphthene, CAS: 189811-57-2**

Signal: 1

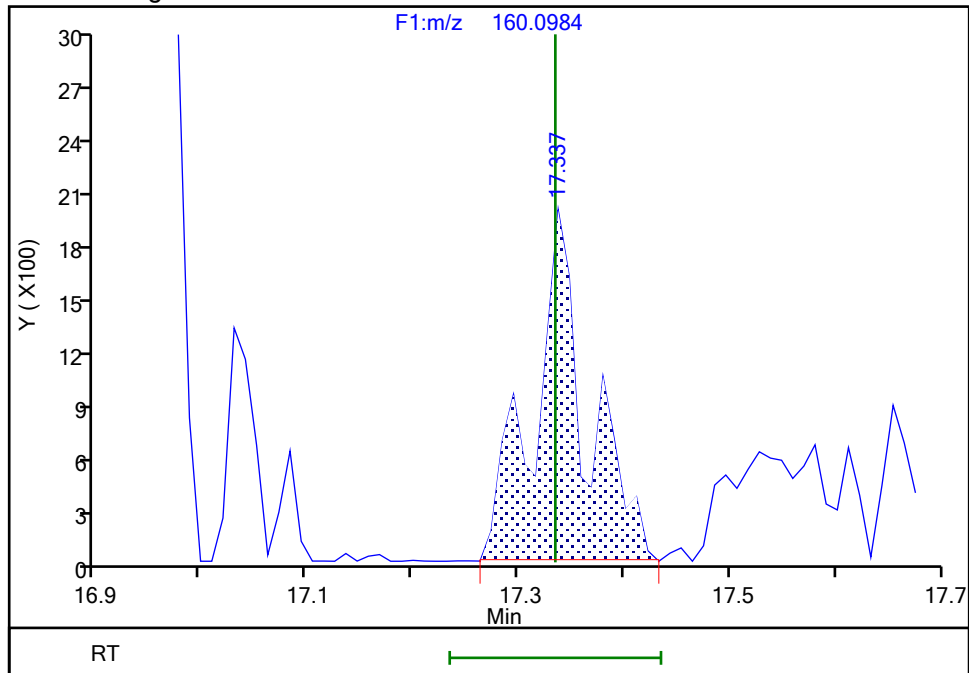
RT: 17.30  
Area: 1609  
Amount: 1.118755  
Amount Units: pg/ul

## Processing Integration Results



RT: 17.34  
Area: 6807  
Amount: 4.732982  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:46:17 -04:00:00 (UTC)

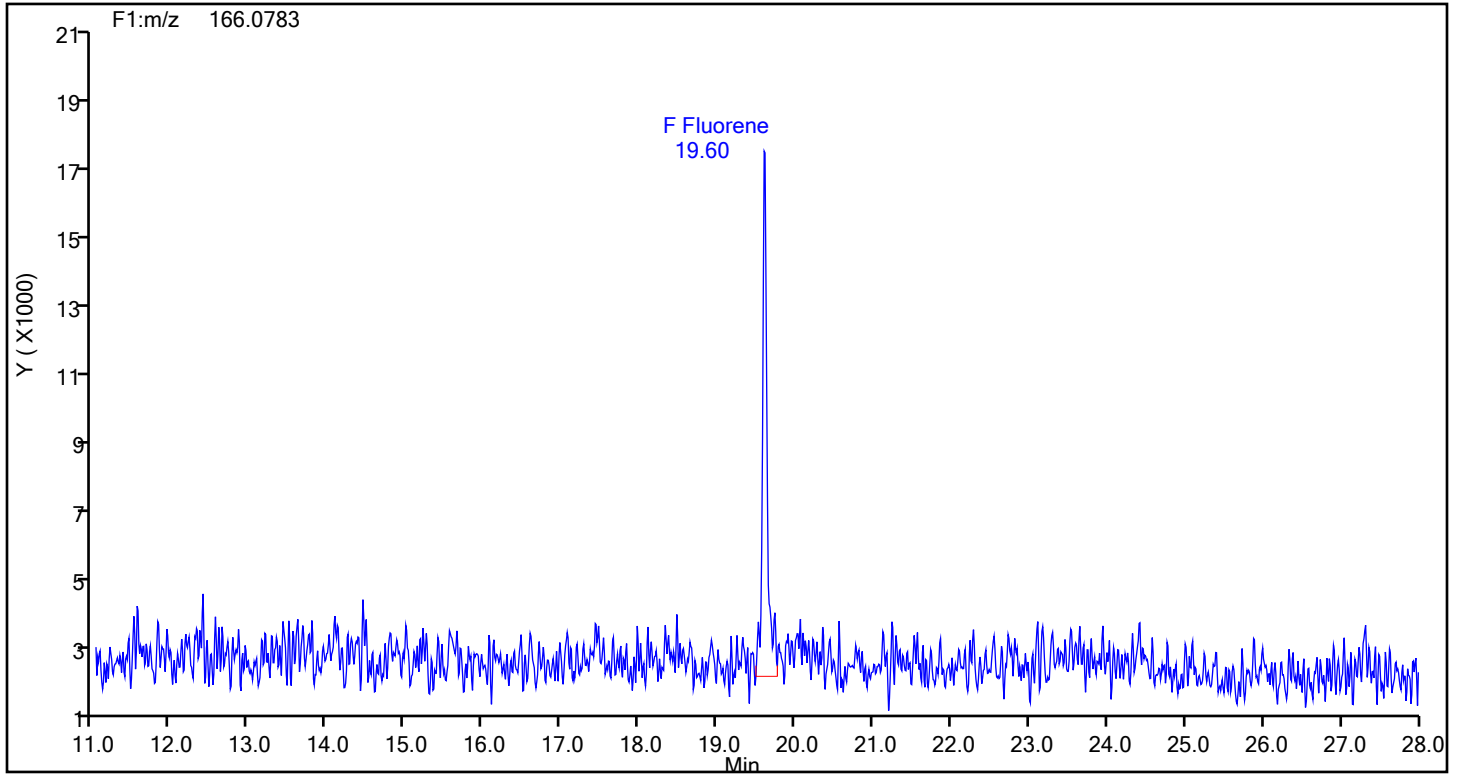
Audit Action: Manually Integrated

Audit Reason: Baseline

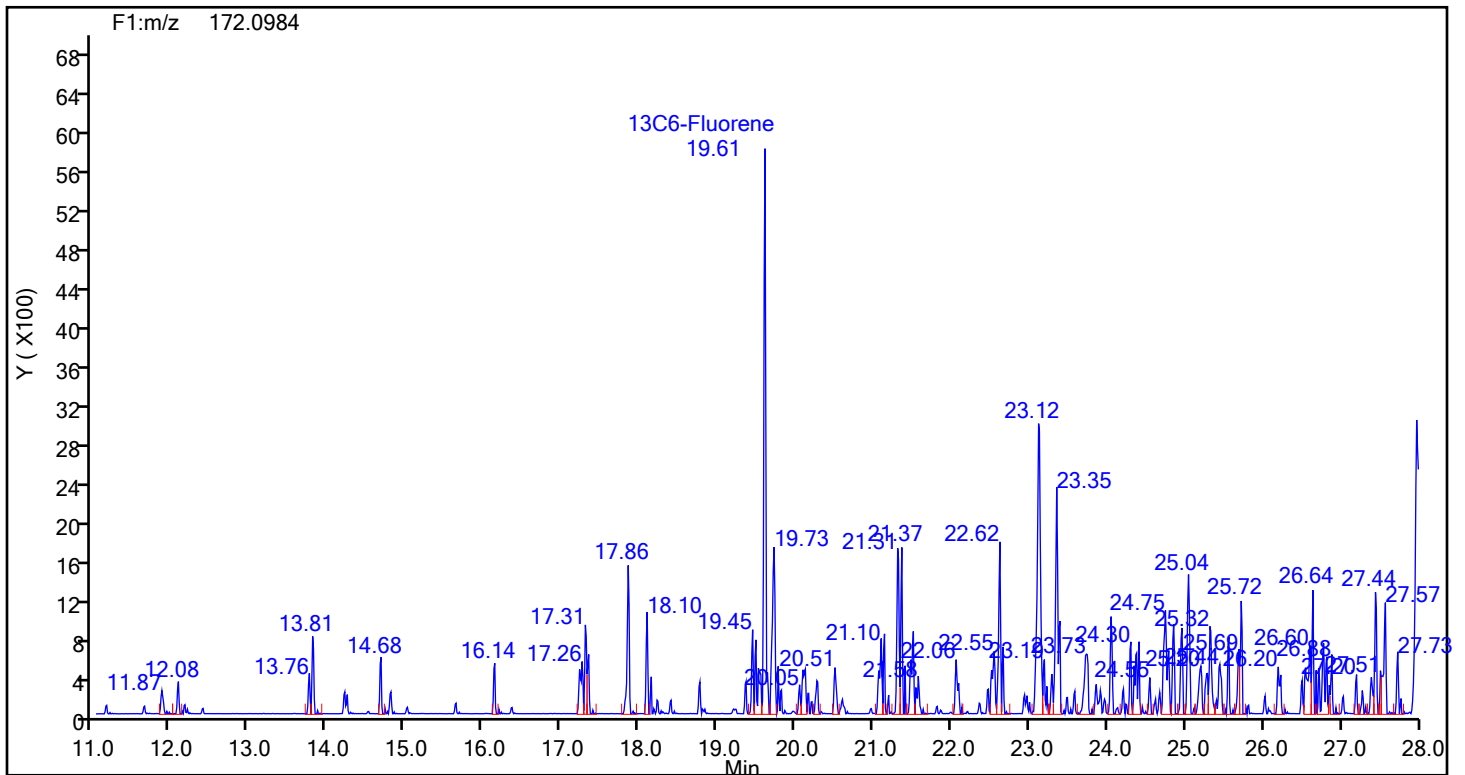
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



## Fluorene Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d

Injection Date: 17-Jul-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED

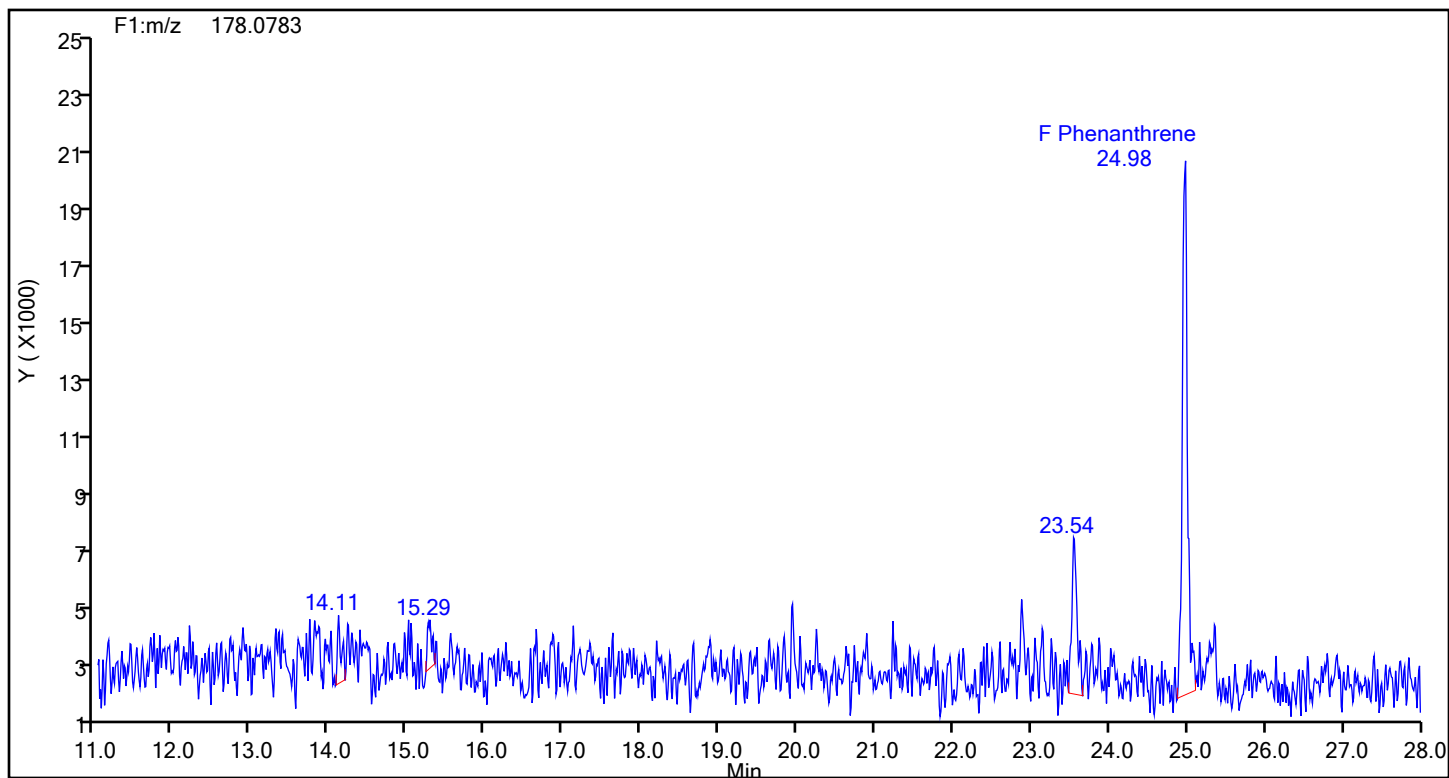
Worklist#: 88872

Sample Line#: 6

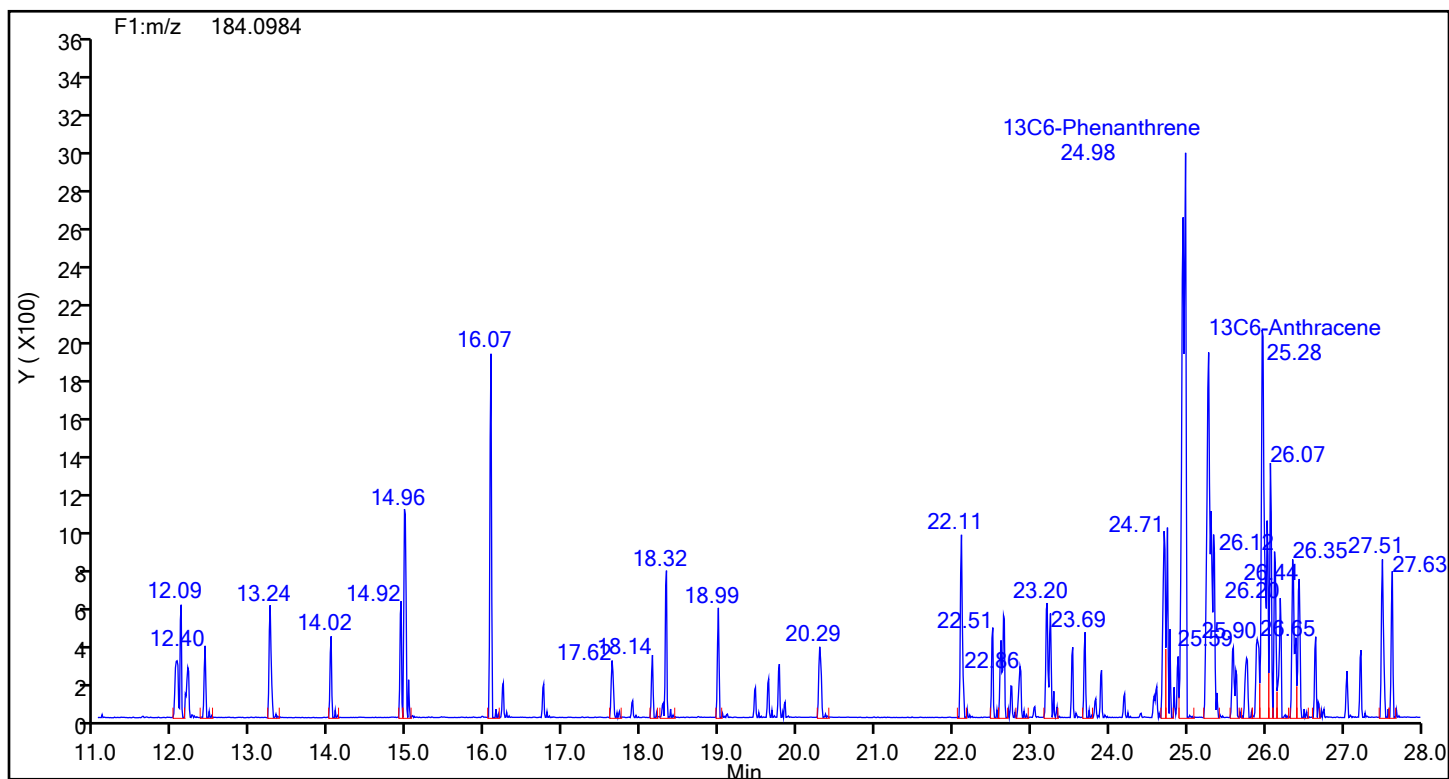
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Phenanthrene

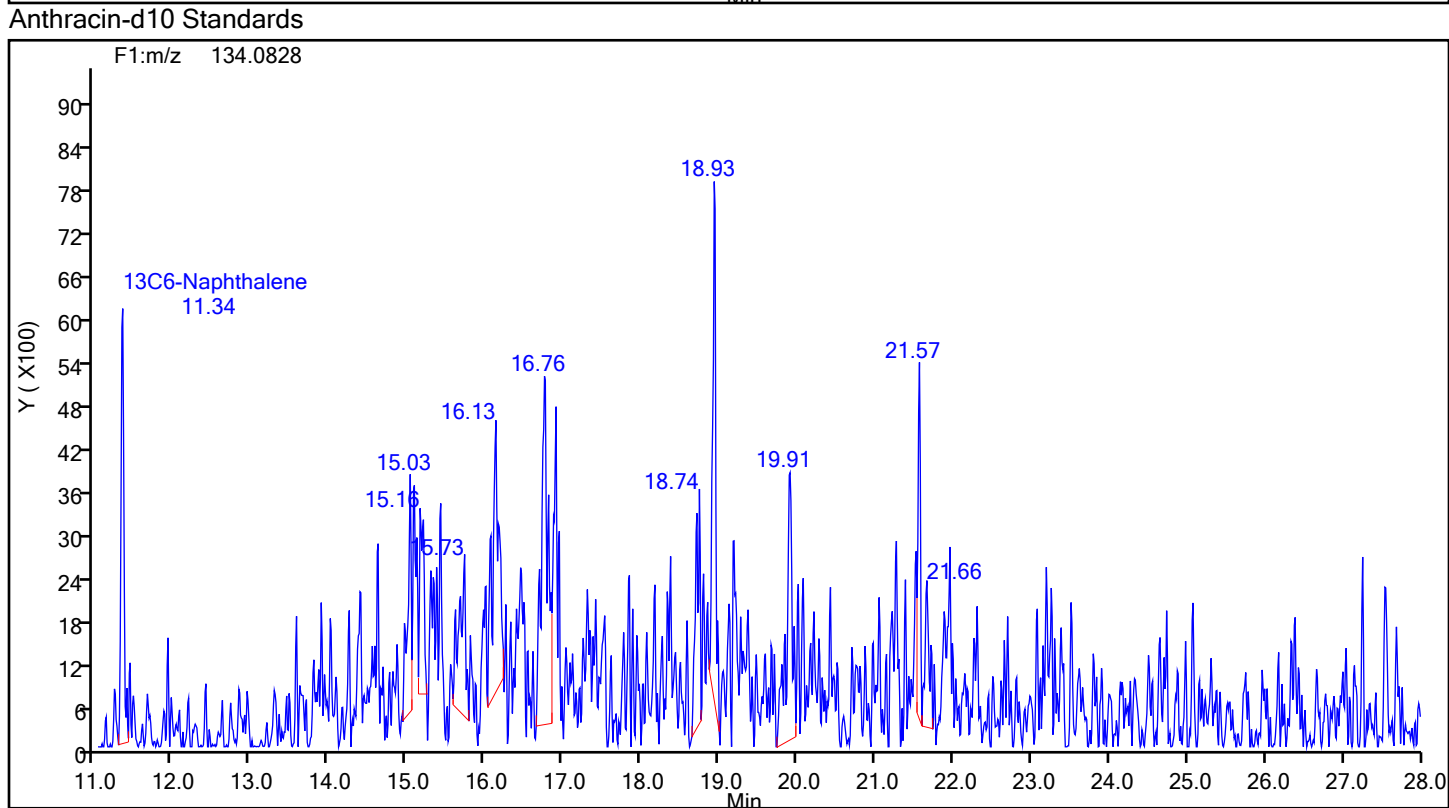
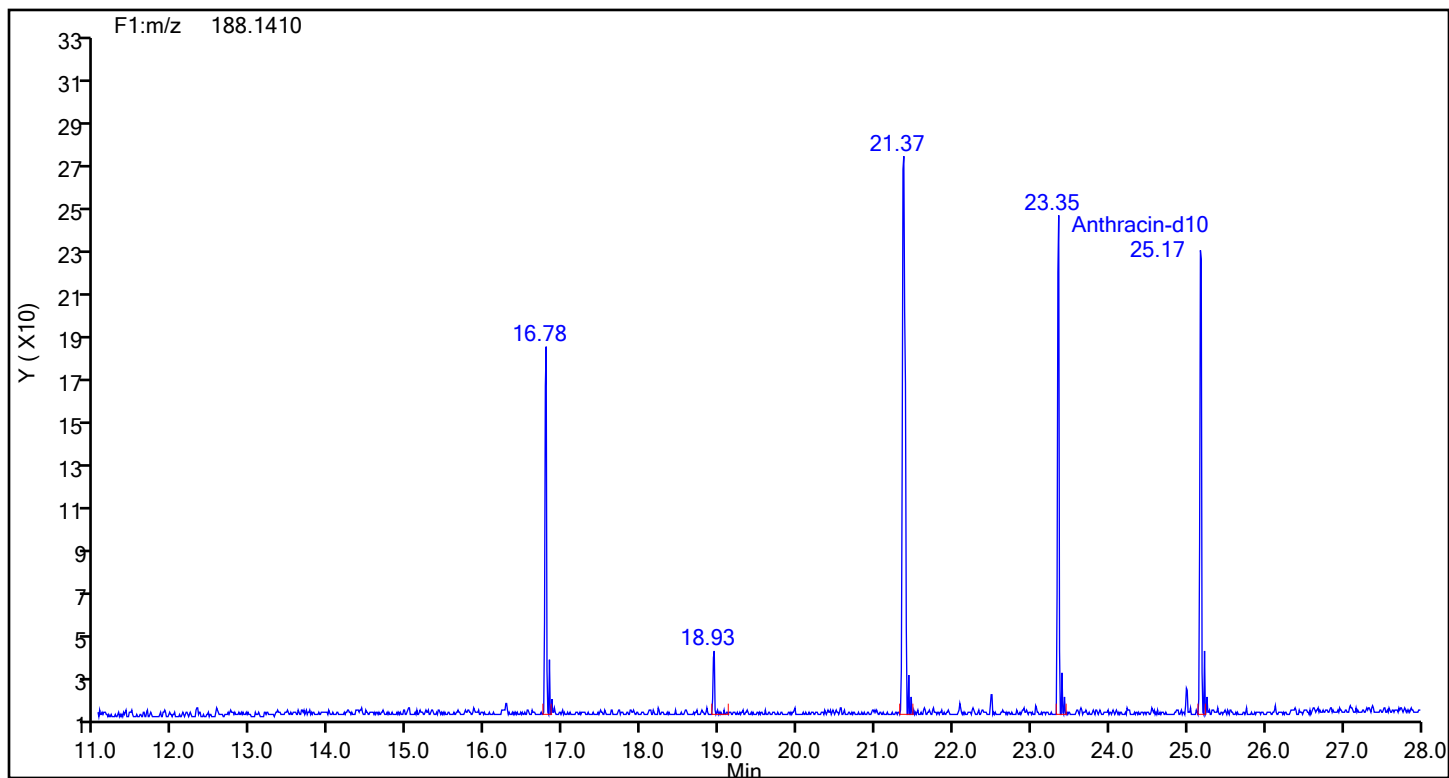


## Phenanthrene Standards



## Eurofins Knoxville

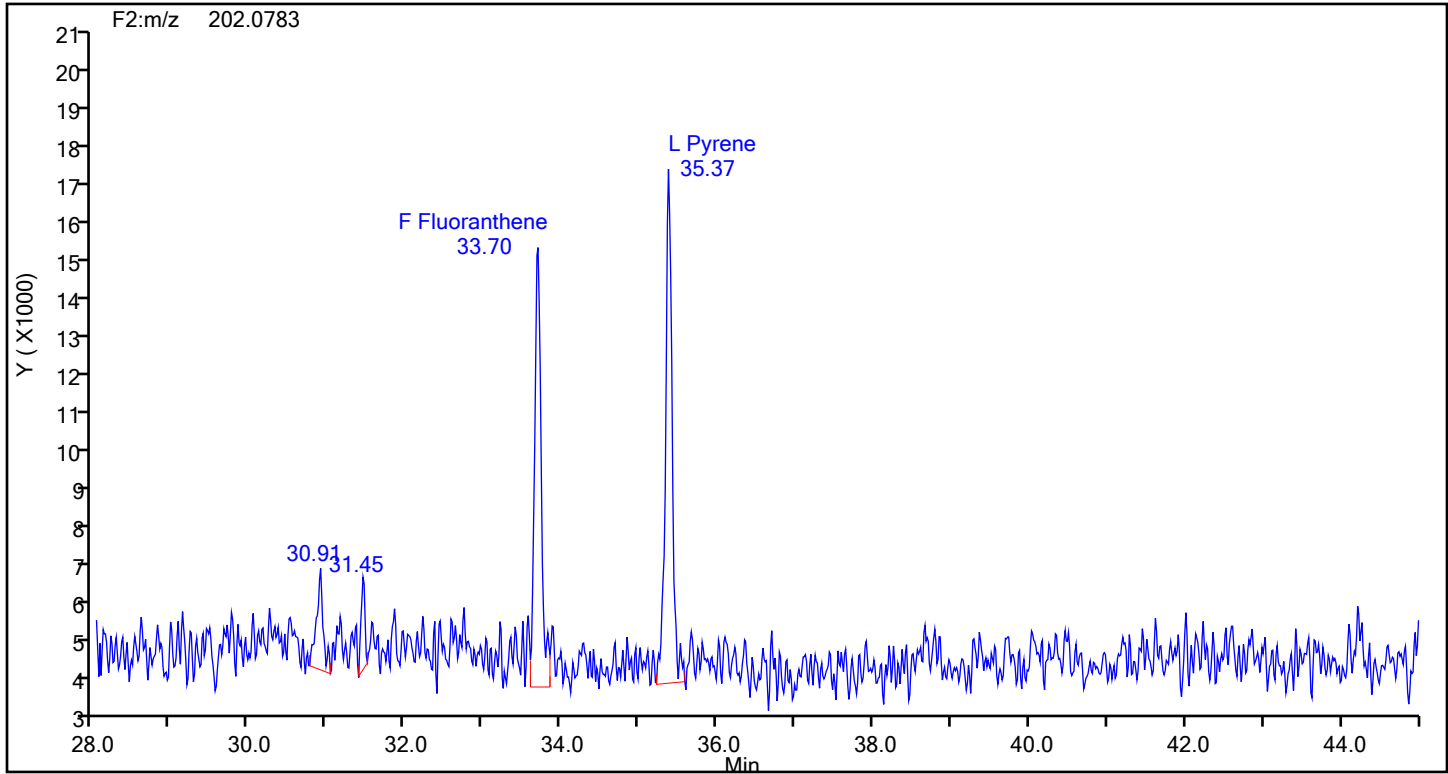
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10



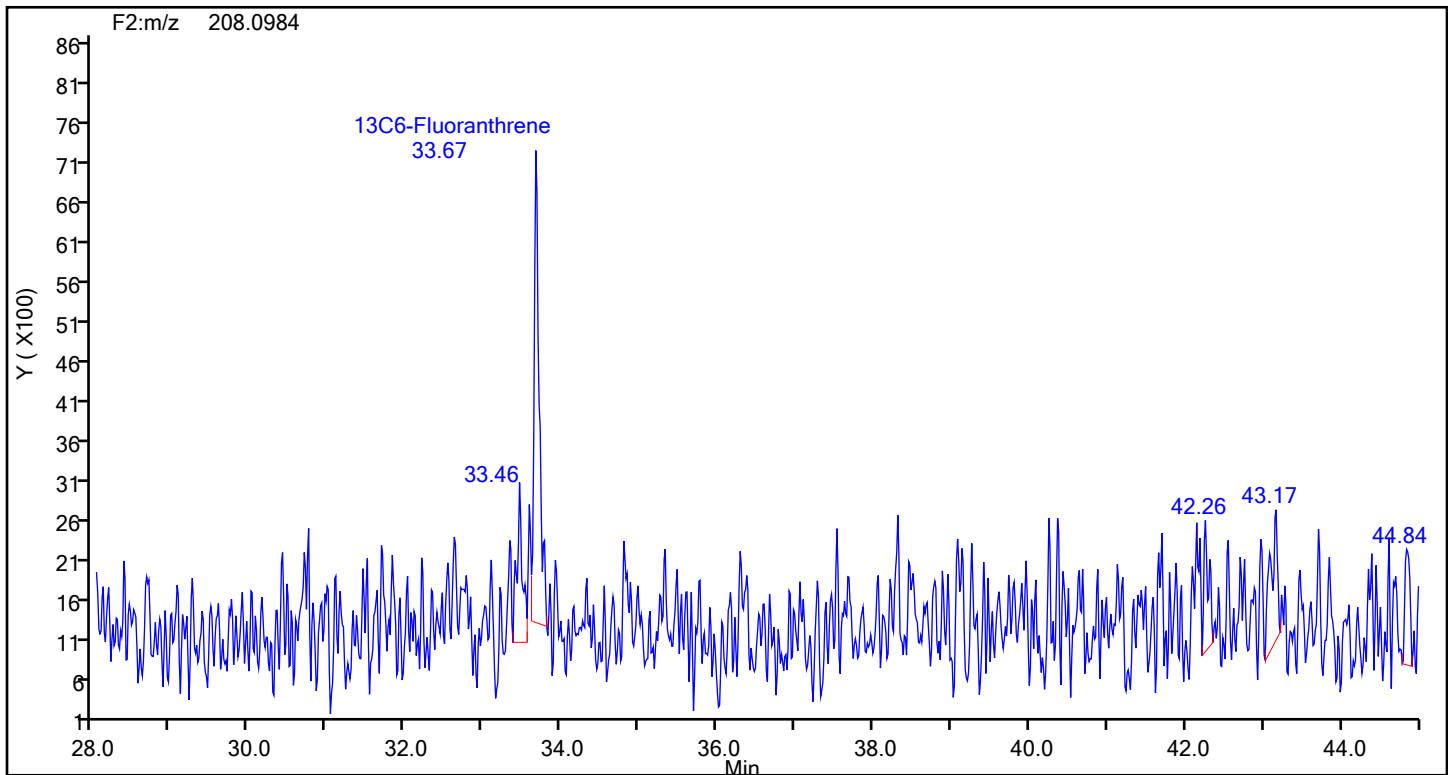
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluoranthene



## Fluoranthene Standards



## Eurofins Knoxville

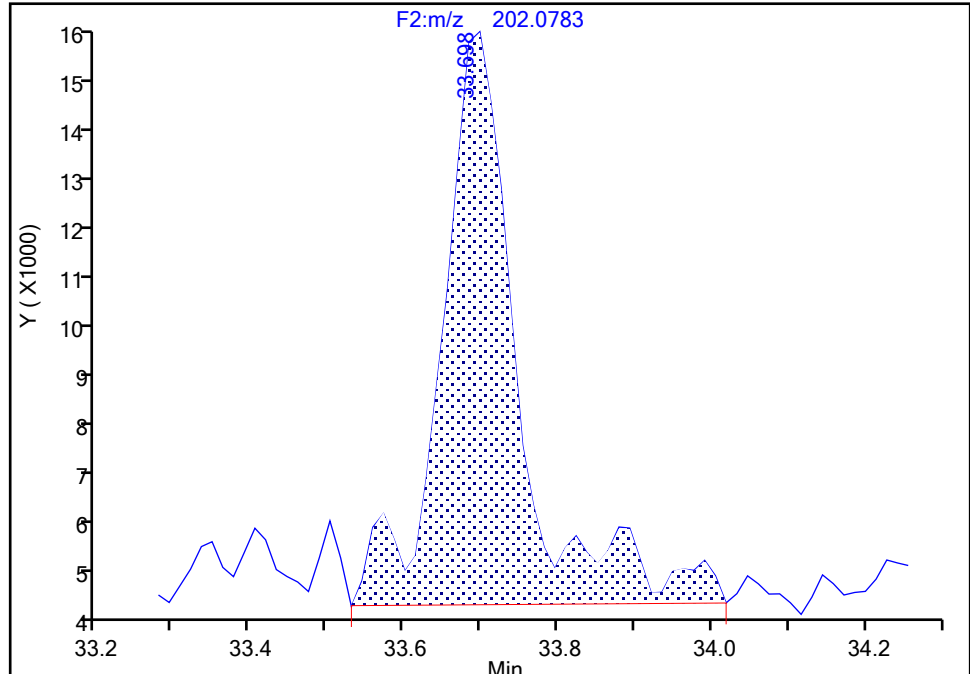
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F2(28.03 :43.99 )

## Fluoranthene, CAS: 206-44-0

Signal: 1

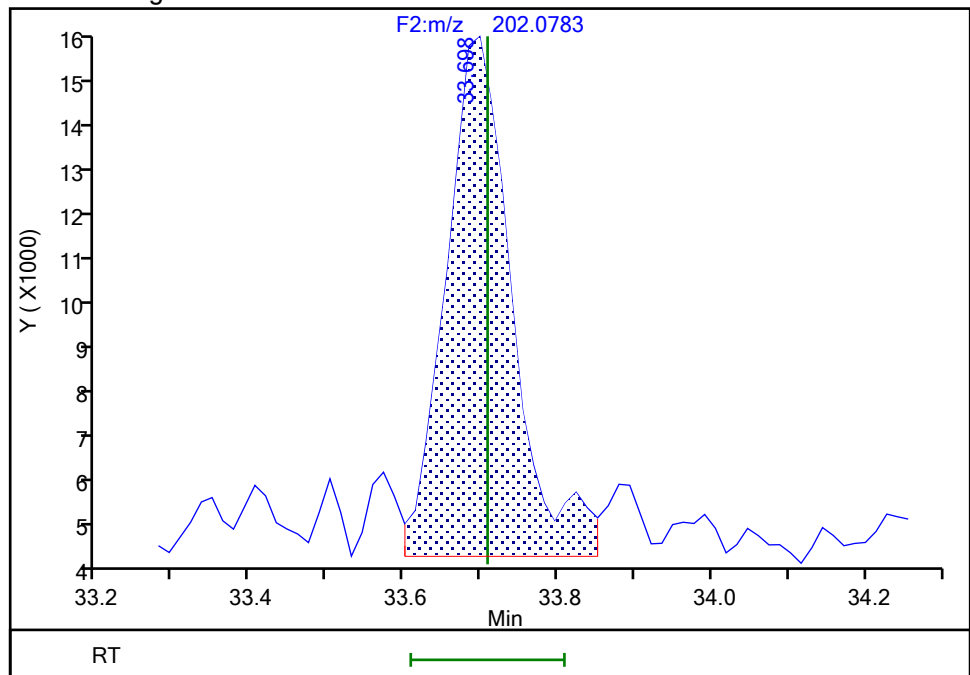
RT: 33.70  
Area: 77515  
Amount: 24.623128  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.70  
Area: 67097  
Amount: 21.313785  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:46:38 -04:00:00 (UTC)

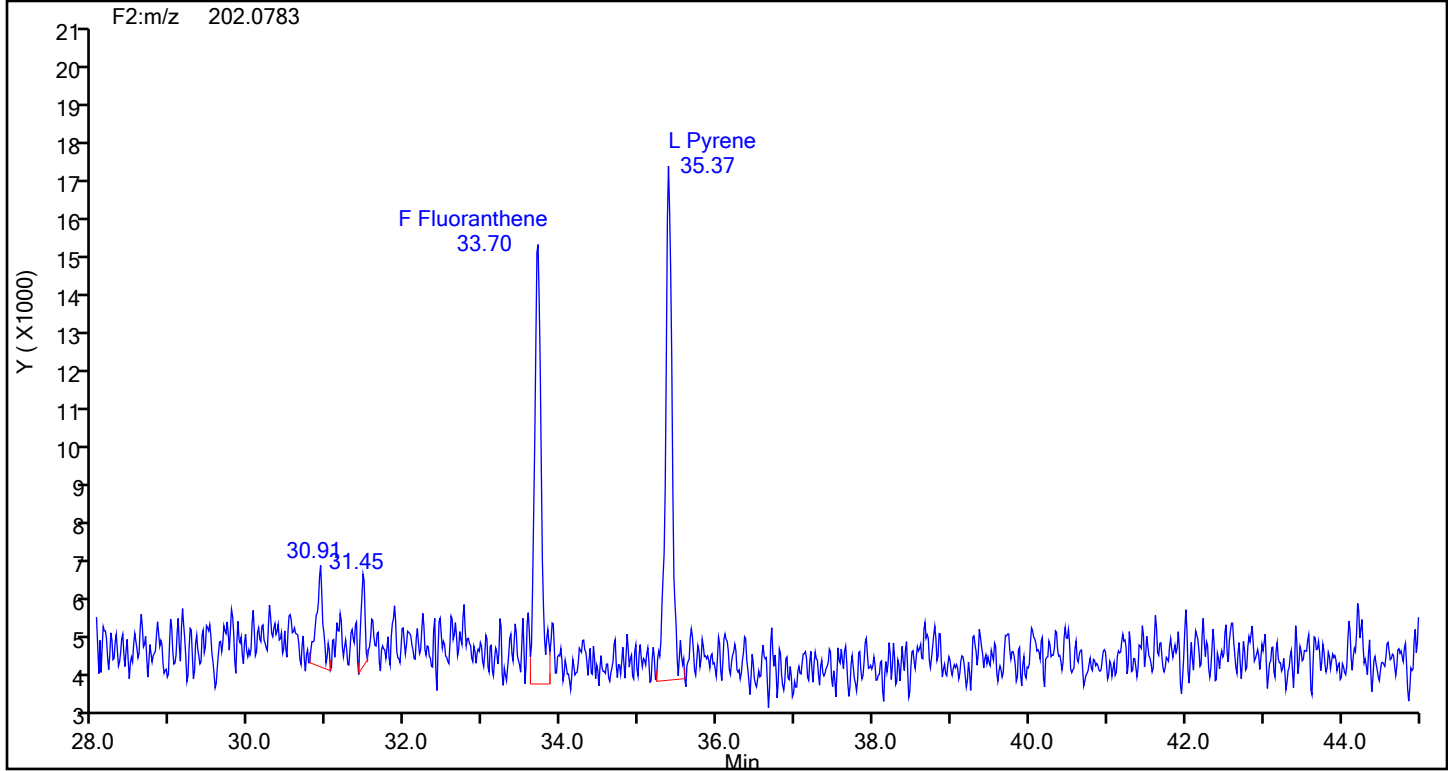
Audit Action: Manually Integrated

Audit Reason: Baseline

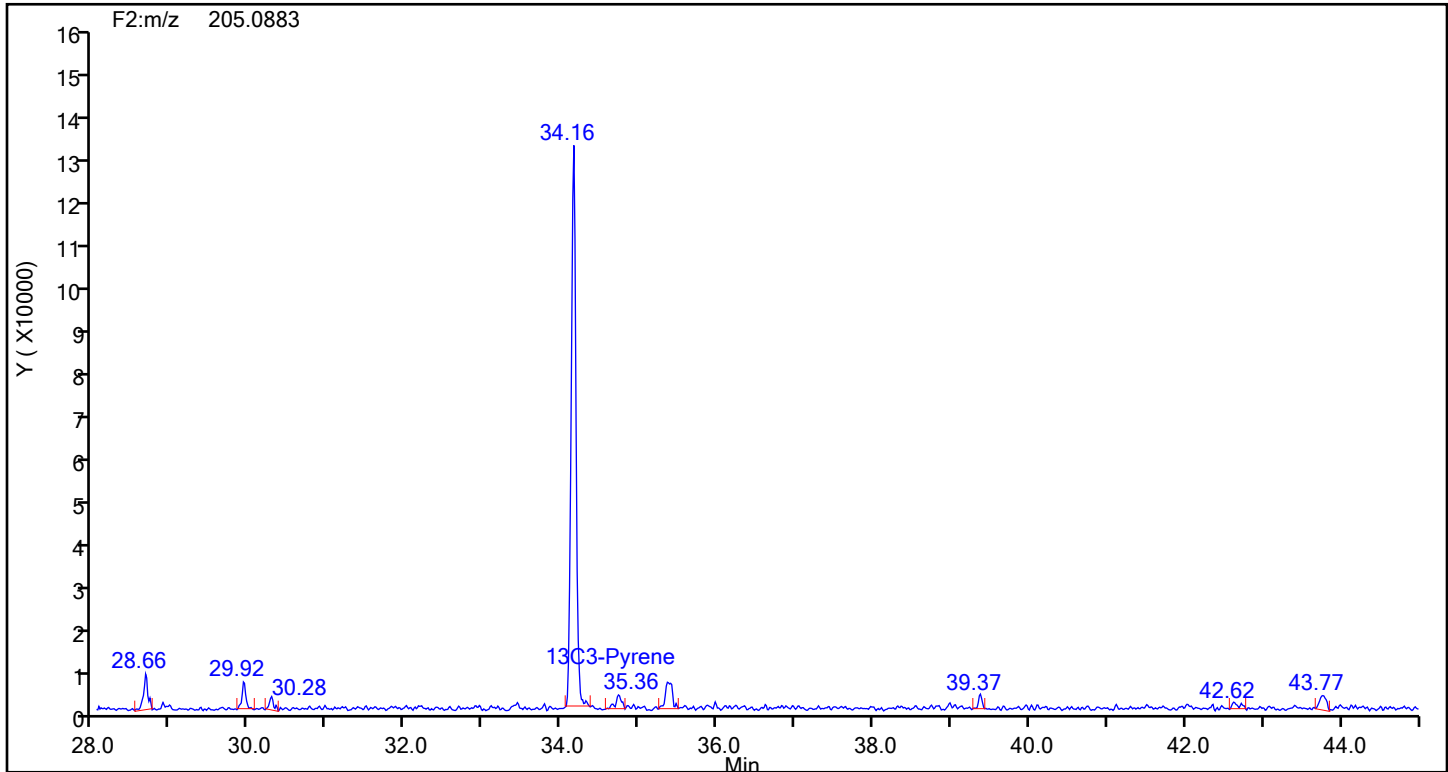
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Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



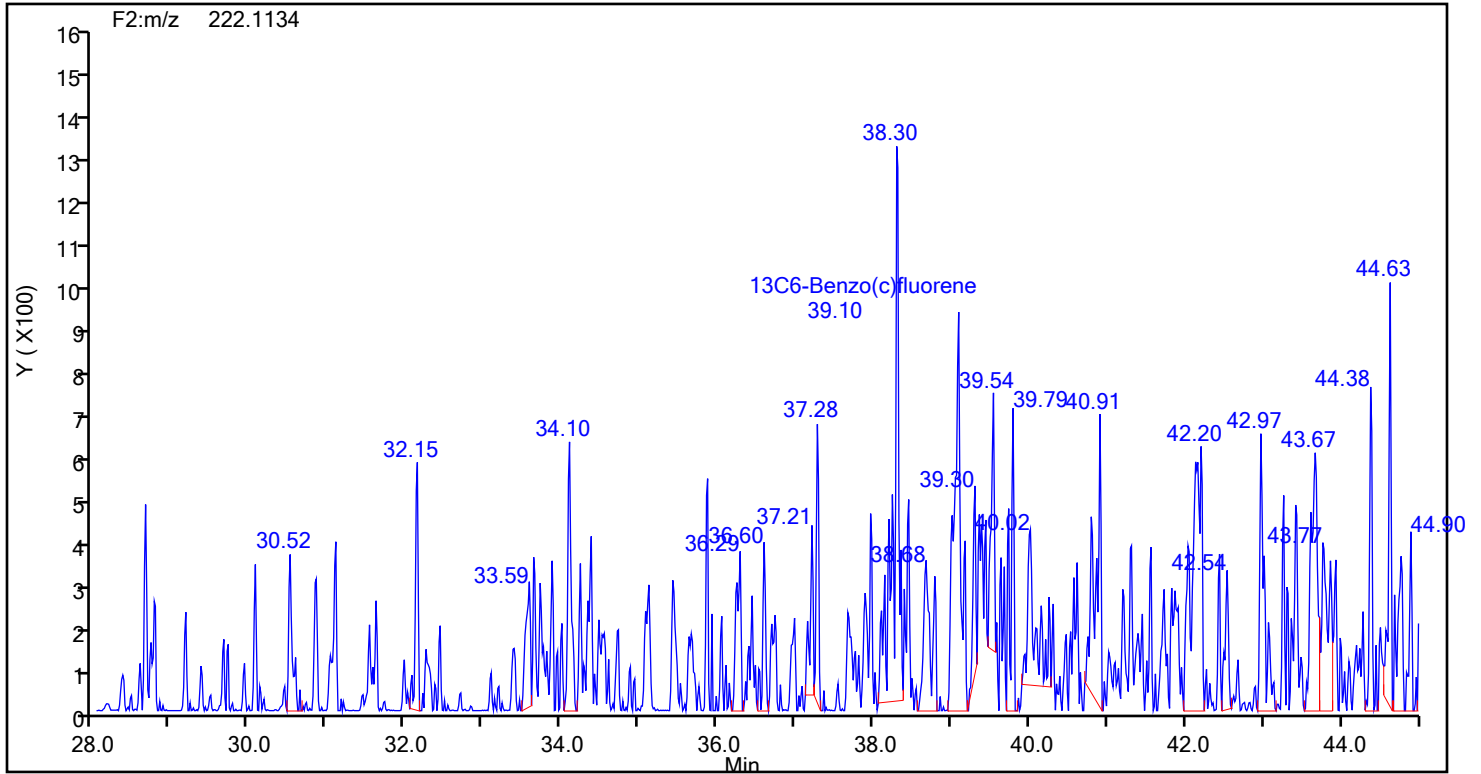
## Pyrene Standards



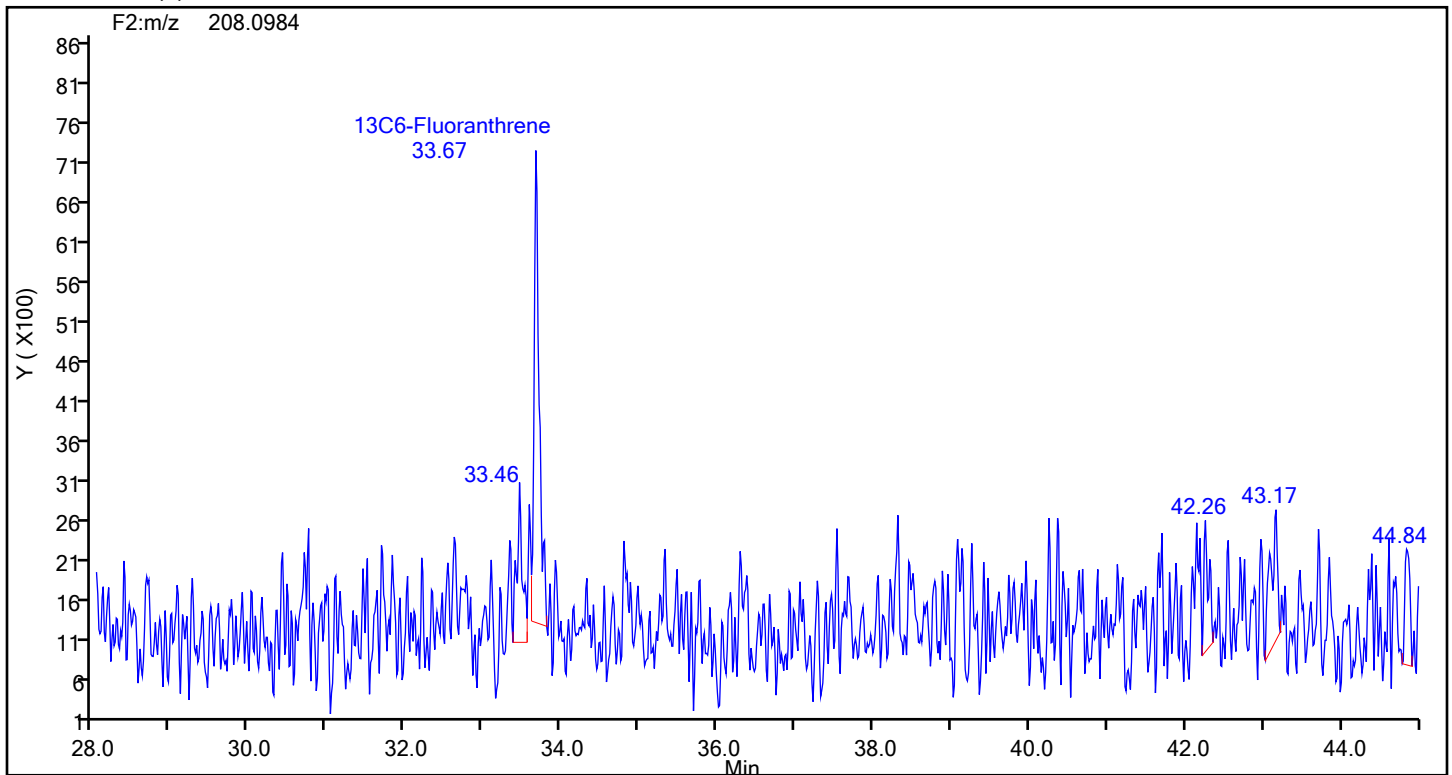
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



## 13C6-Benzo(c)fluorene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d

Injection Date: 17-Jul-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED

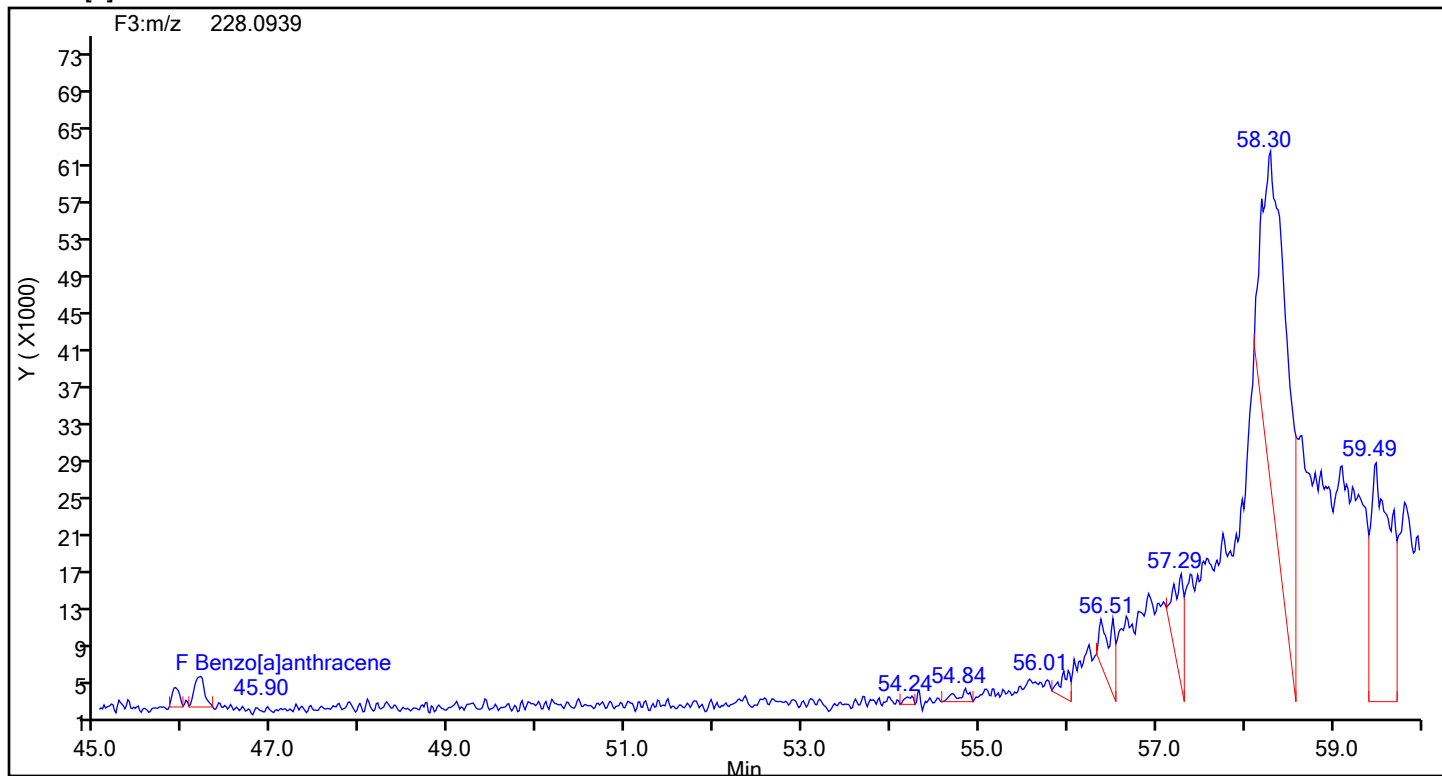
Worklist#: 88872

Sample Line#: 6

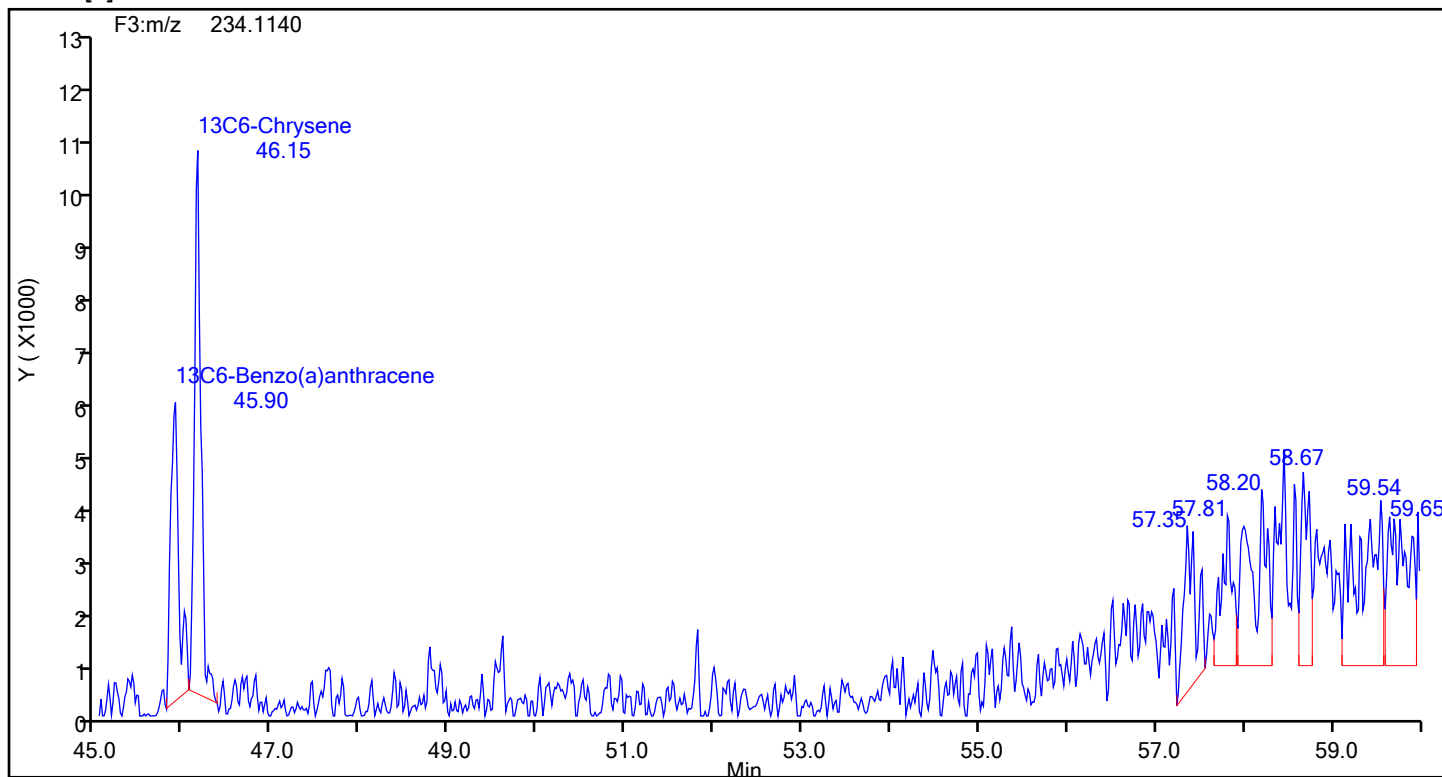
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[a]anthracene



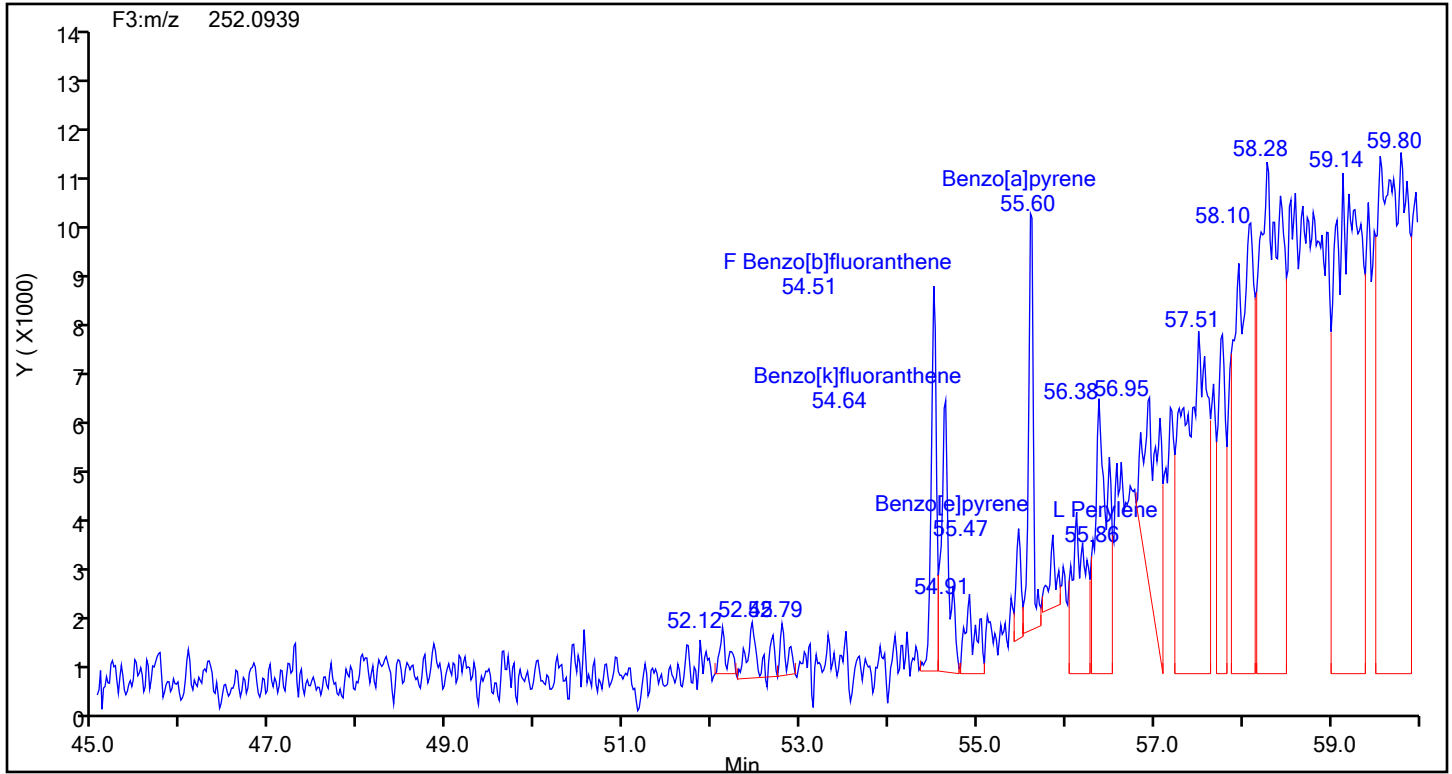
## Benzo[a]anthracene Standards



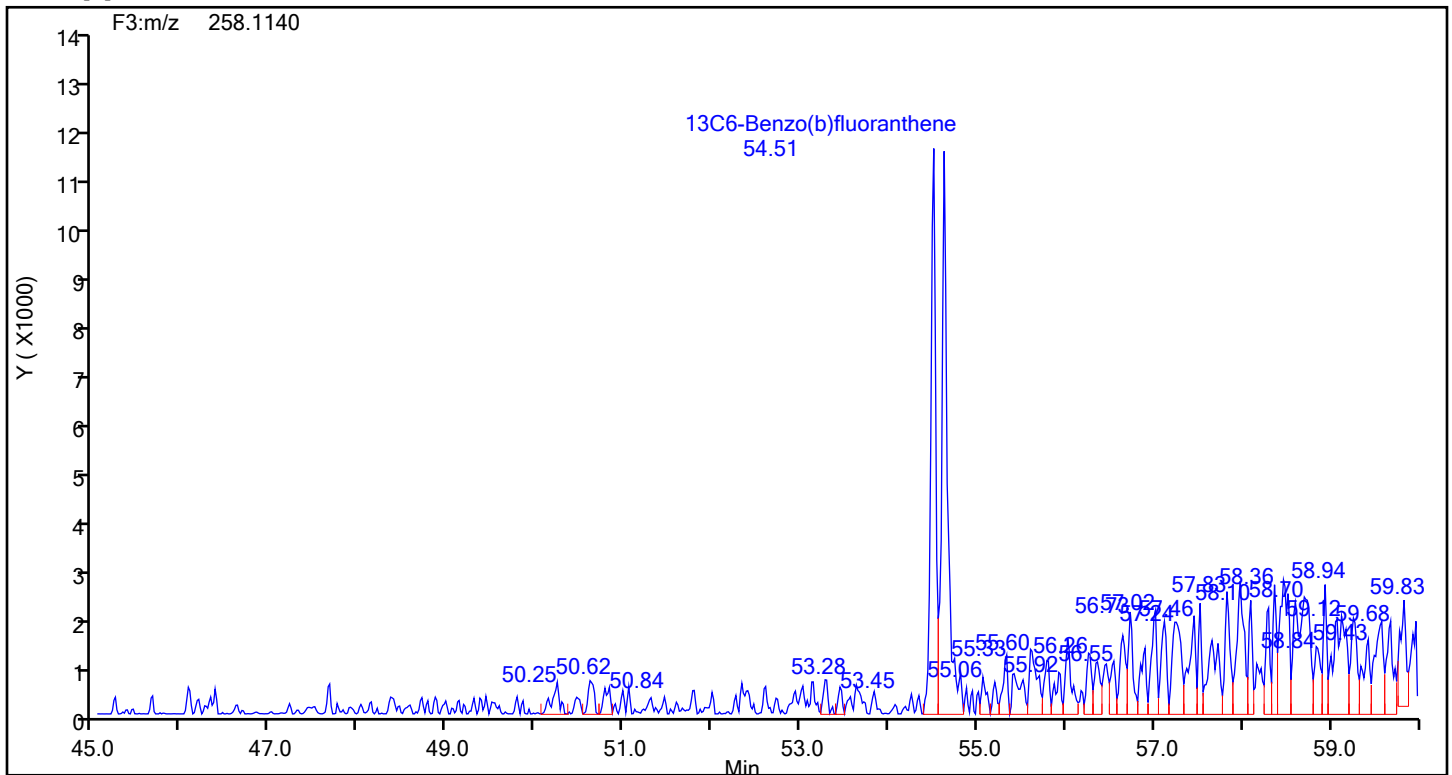
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards





## Eurofins Knoxville

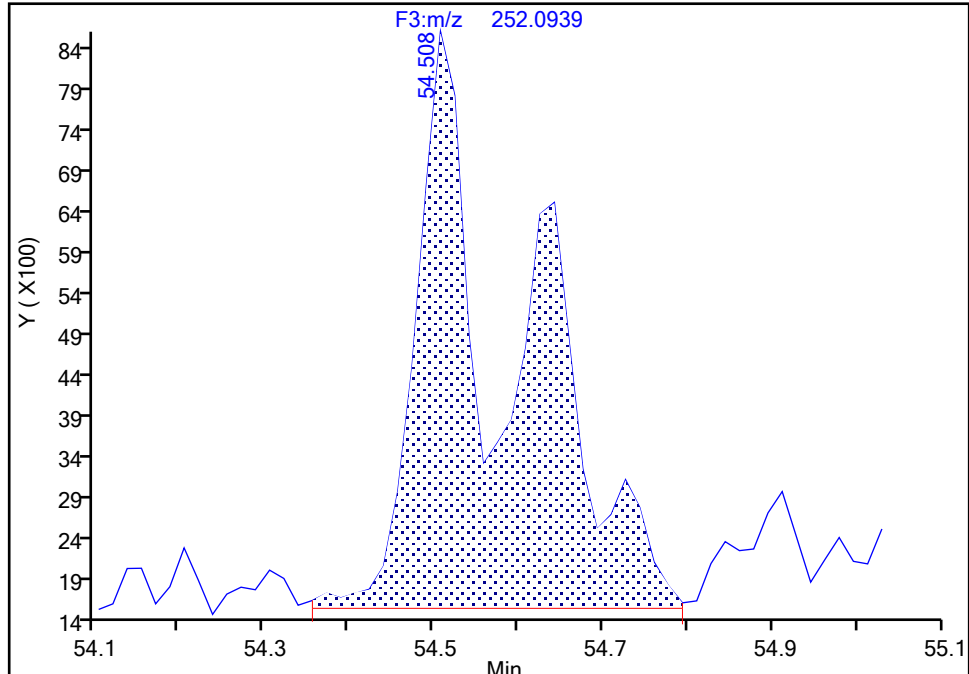
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1\IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

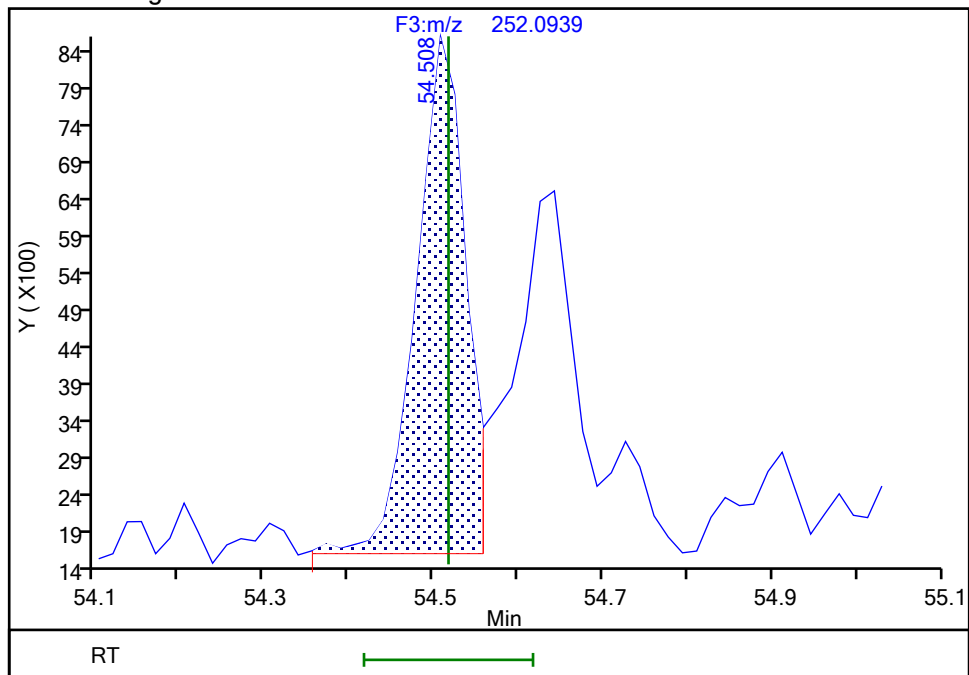
RT: 54.51  
Area: 57668  
Amount: 11.828722  
Amount Units: pg/ul

## Processing Integration Results



RT: 54.51  
Area: 28919  
Amount: 5.931796  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:47:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

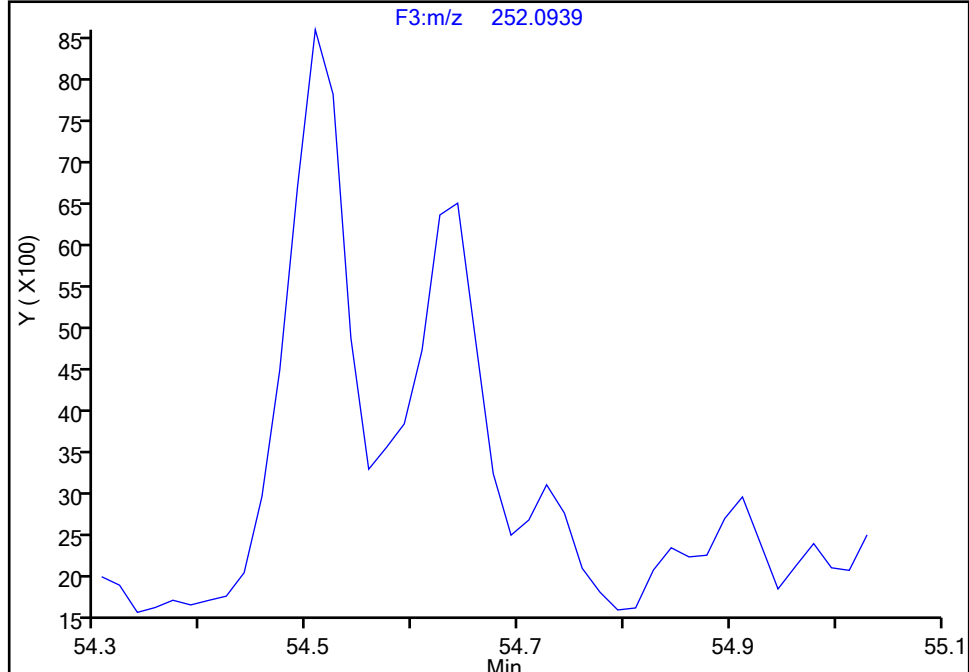
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

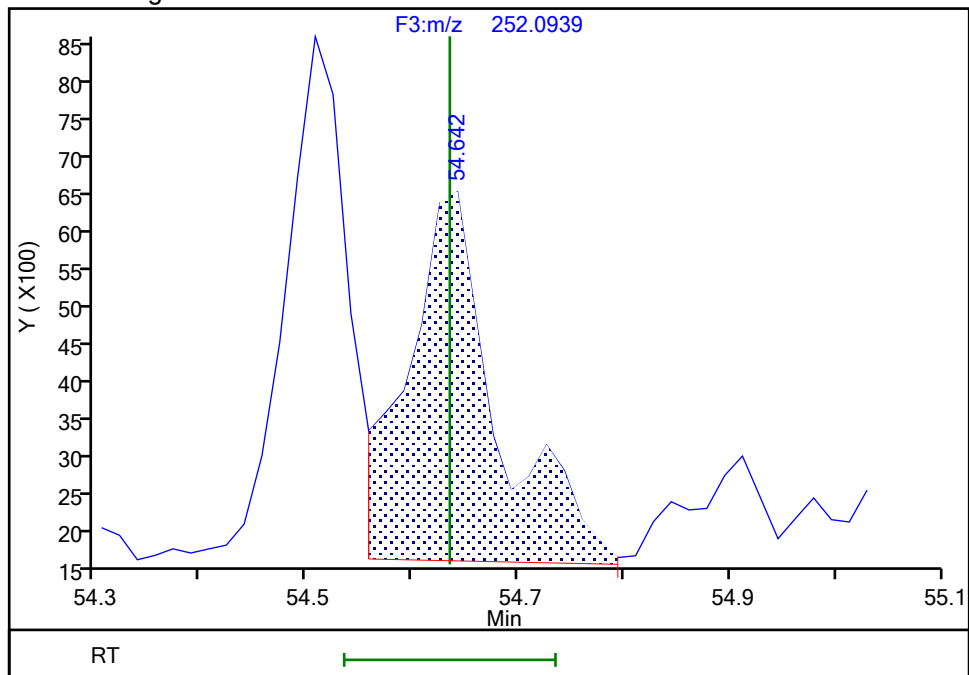
Not Detected  
Expected RT: 54.63

## Processing Integration Results



## Manual Integration Results

RT: 54.64  
Area: 29826  
Amount: 5.043645  
Amount Units: pg/ul



Reviewer: Q9DB, 17-Jul-2024 20:47:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d

Injection Date: 17-Jul-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED

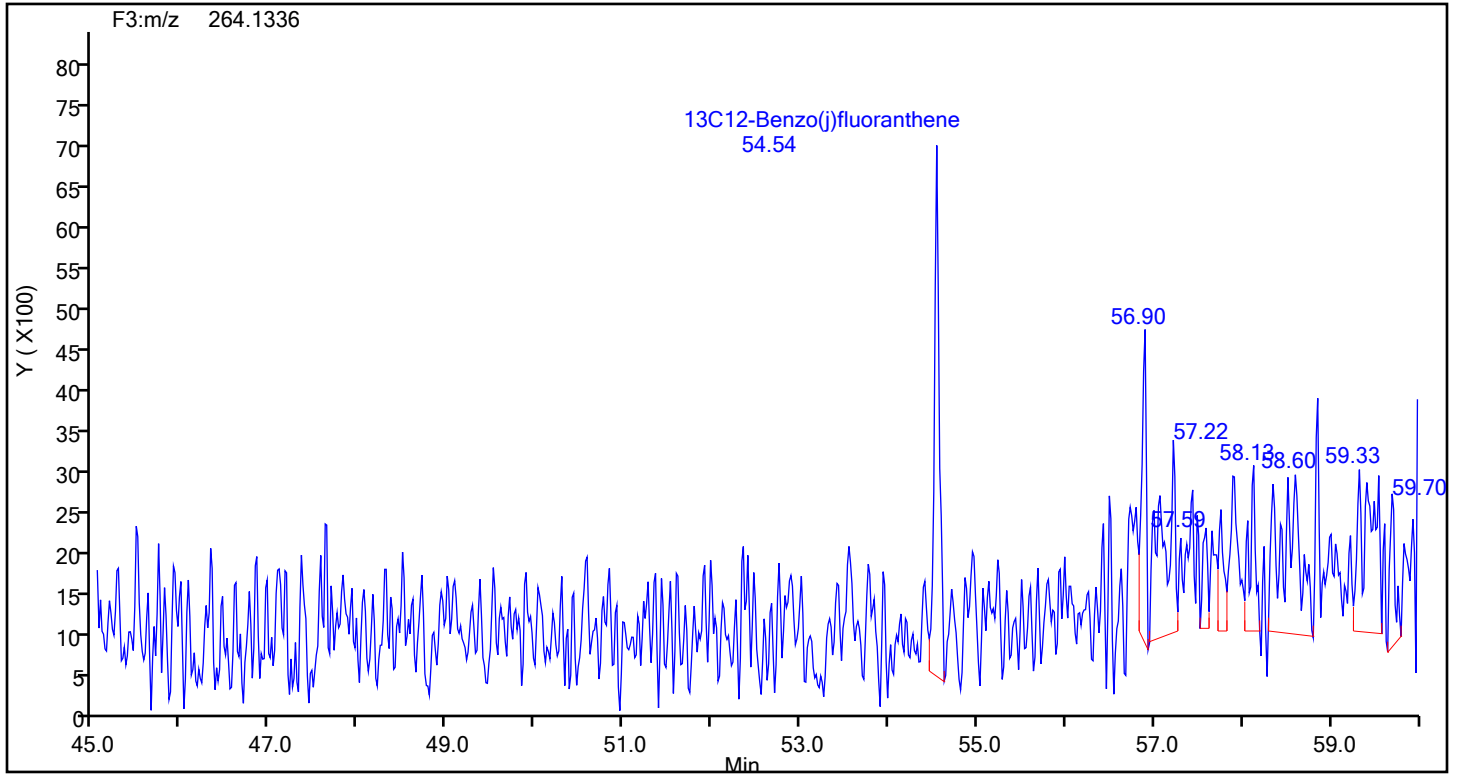
Worklist#: 88872

Sample Line#: 6

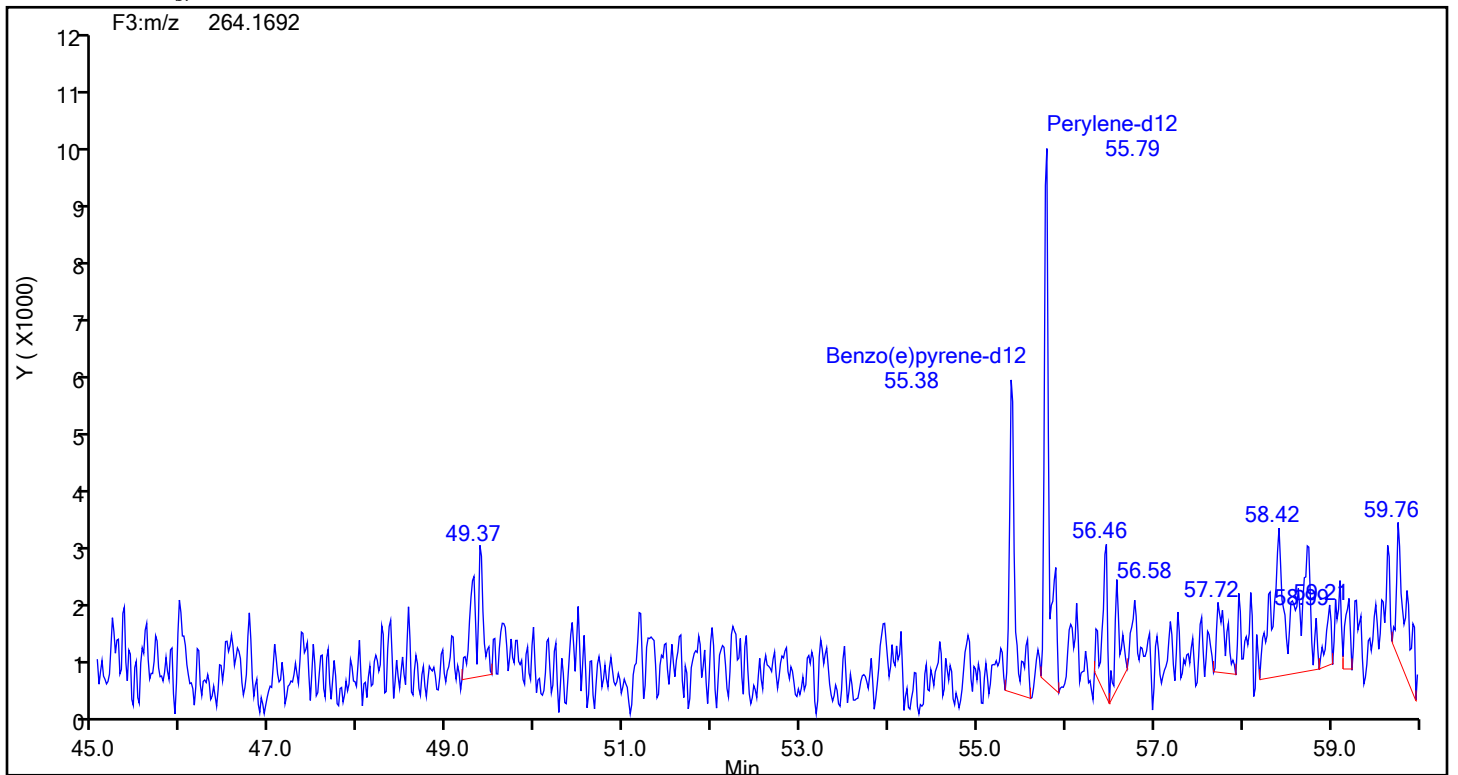
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



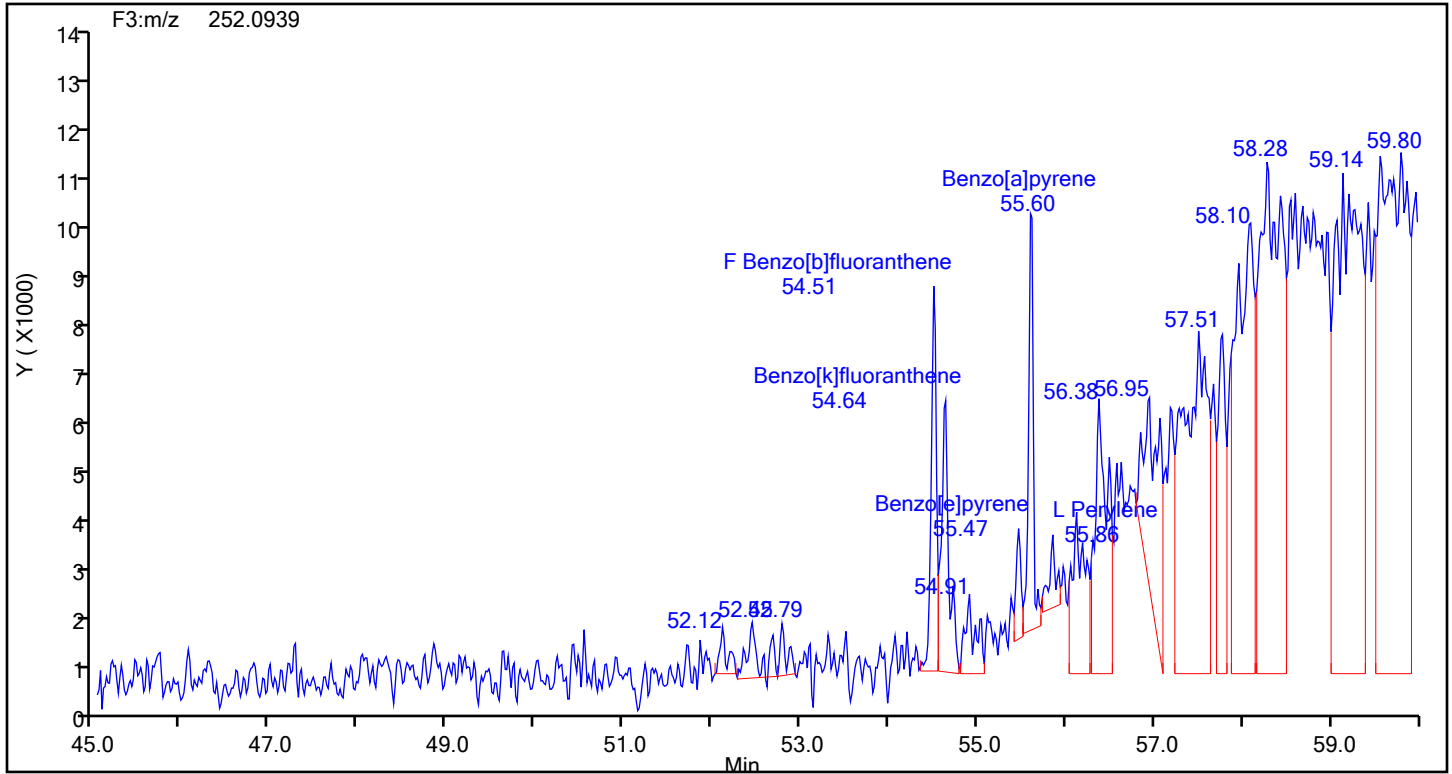
## 13C12-Benzo(j)fluoranthene Standards



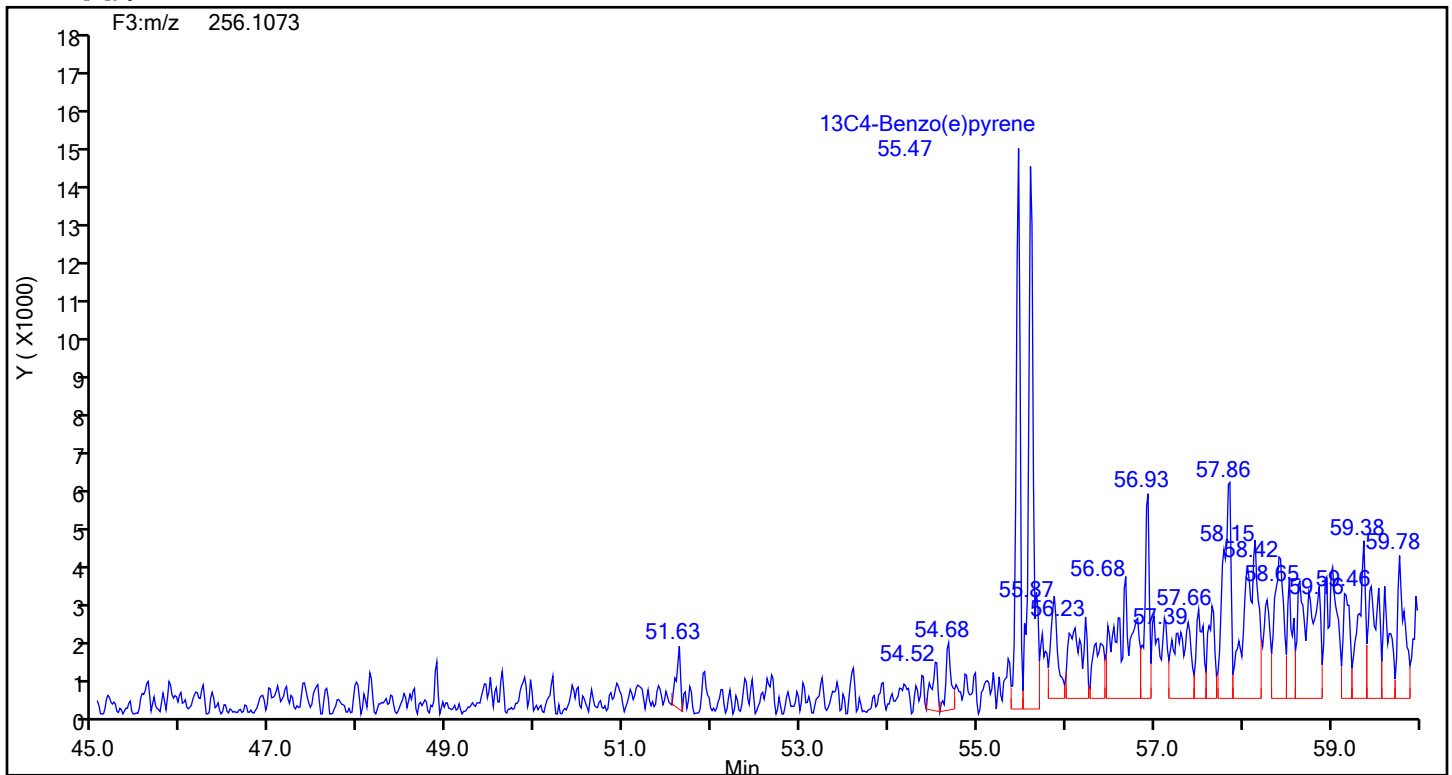
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



## Benzo[e]pyrene Standards



## Eurofins Knoxville

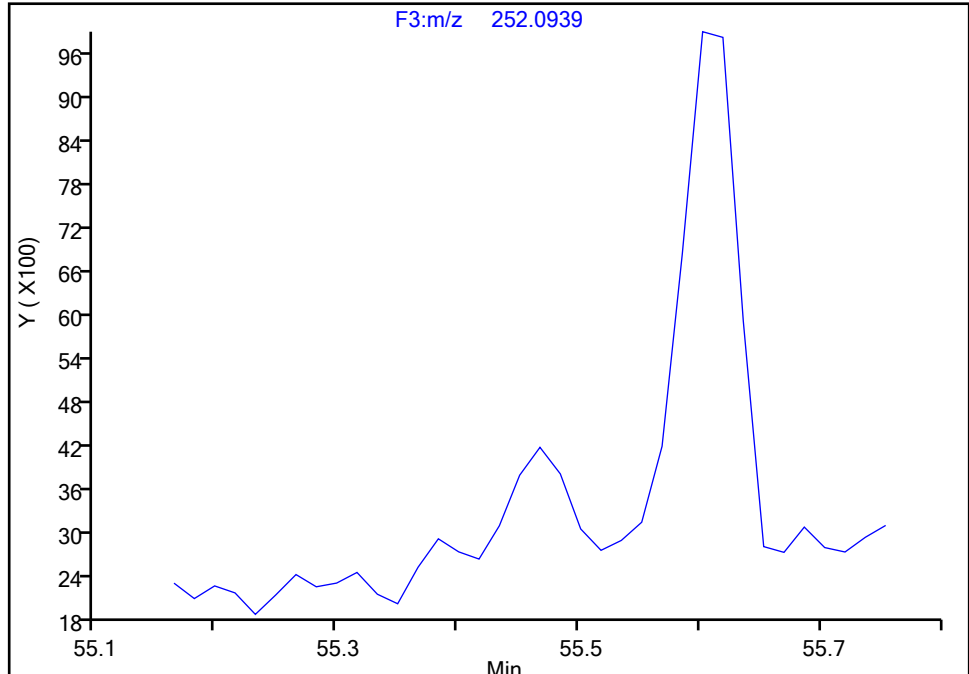
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

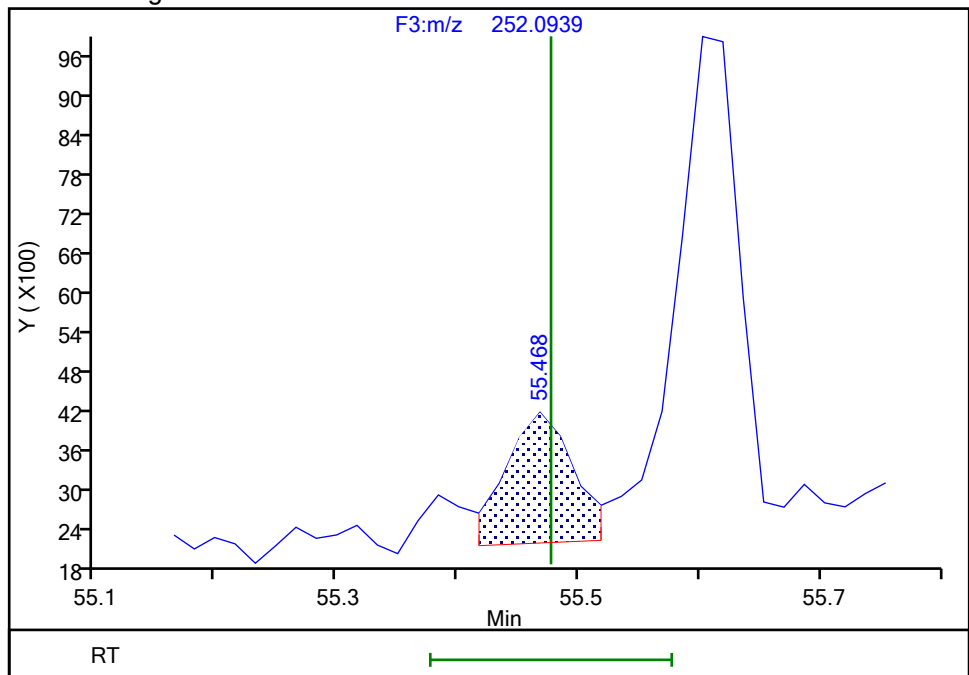
Not Detected  
Expected RT: 55.48

## Processing Integration Results



RT: 55.47  
Area: 8140  
Amount: 1.850220  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:47:51 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

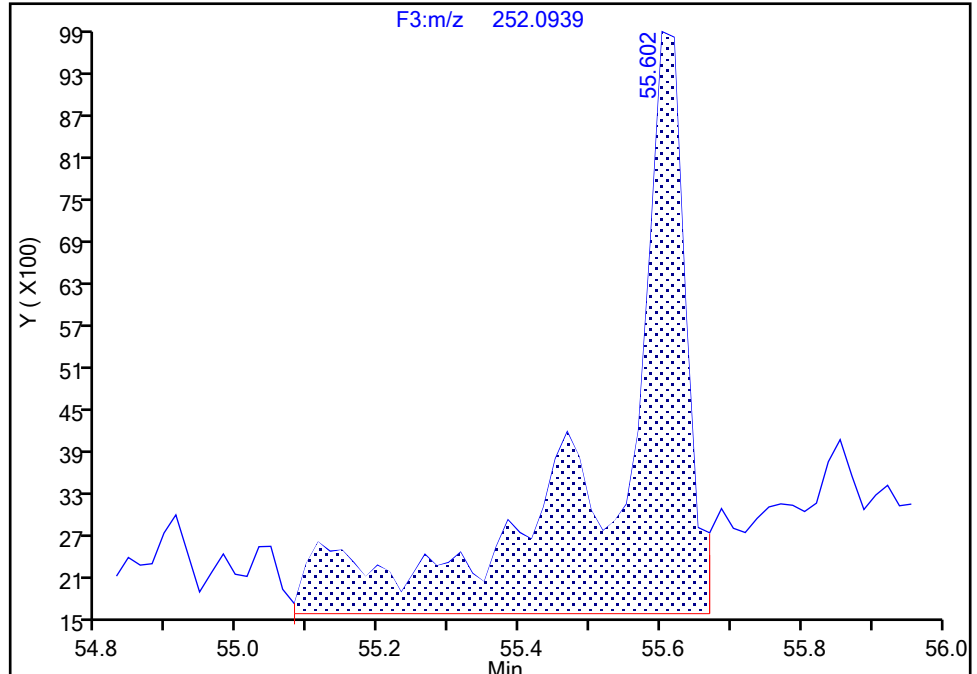
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

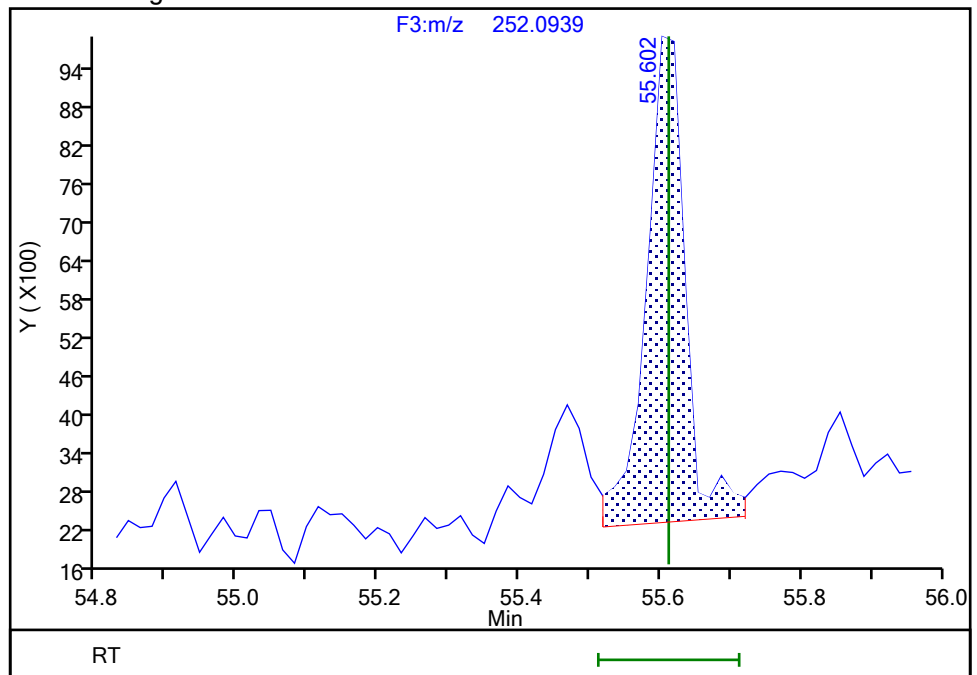
RT: 55.60  
Area: 61273  
Amount: 9.848215  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.60  
Area: 29269  
Amount: 4.704313  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:48:01 -04:00:00 (UTC)

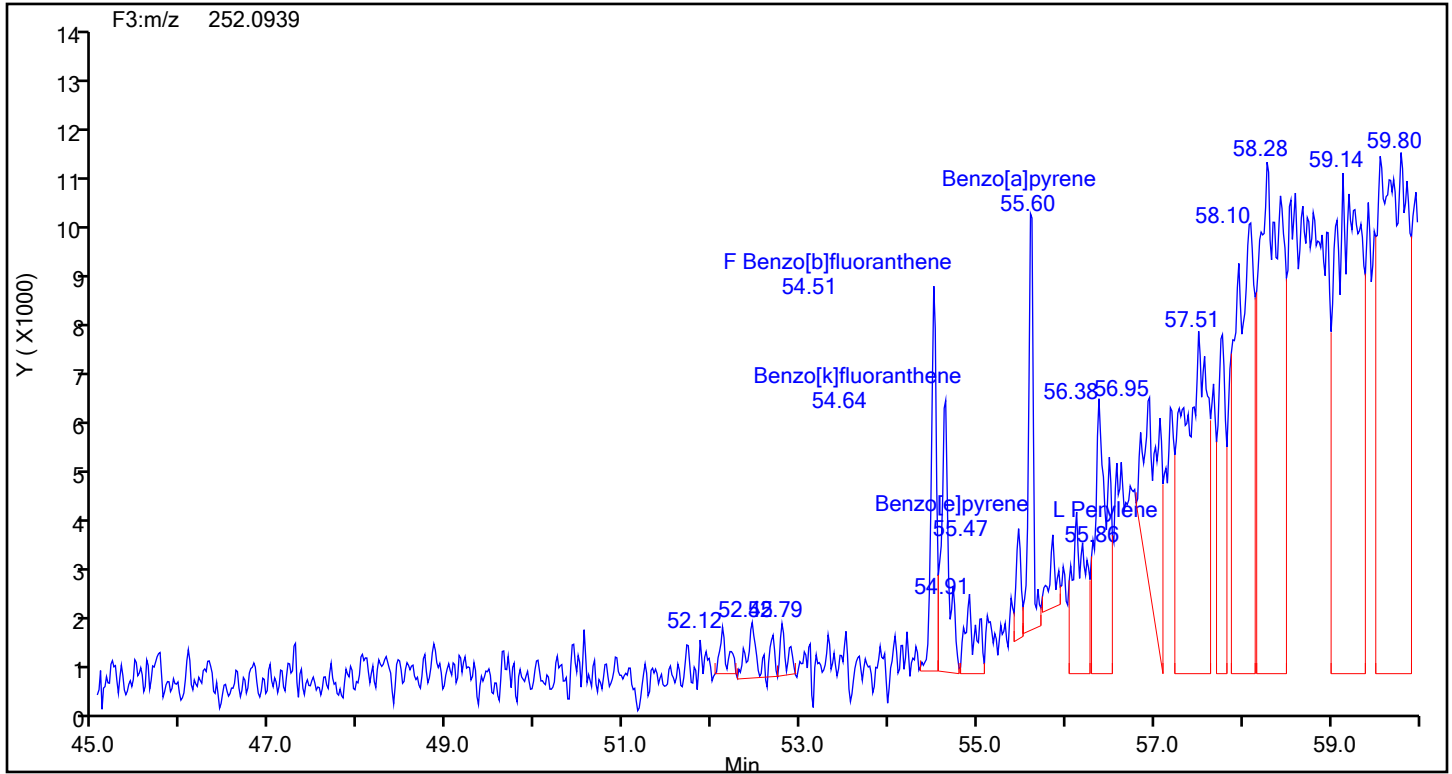
Audit Action: Manually Integrated

Audit Reason: Baseline

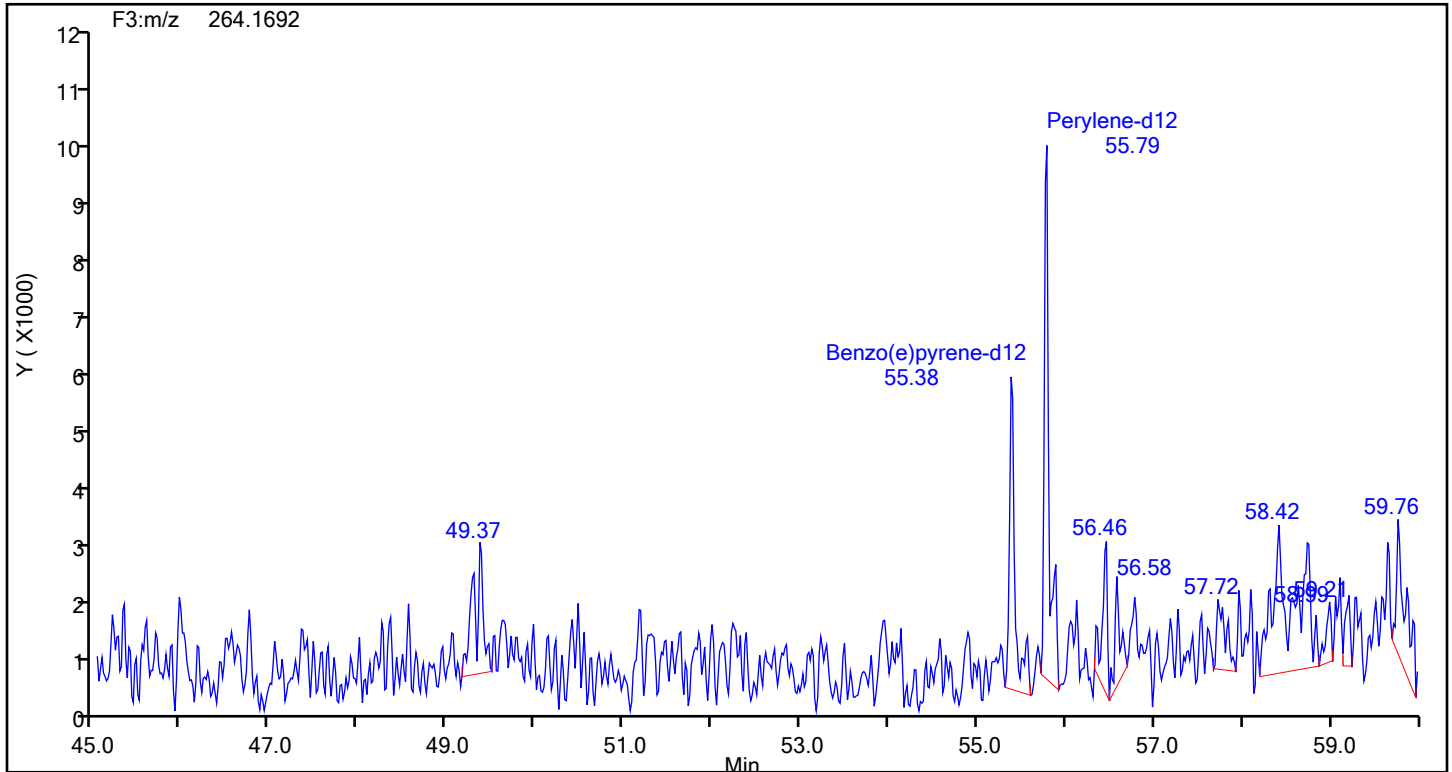
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88872 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Perylene



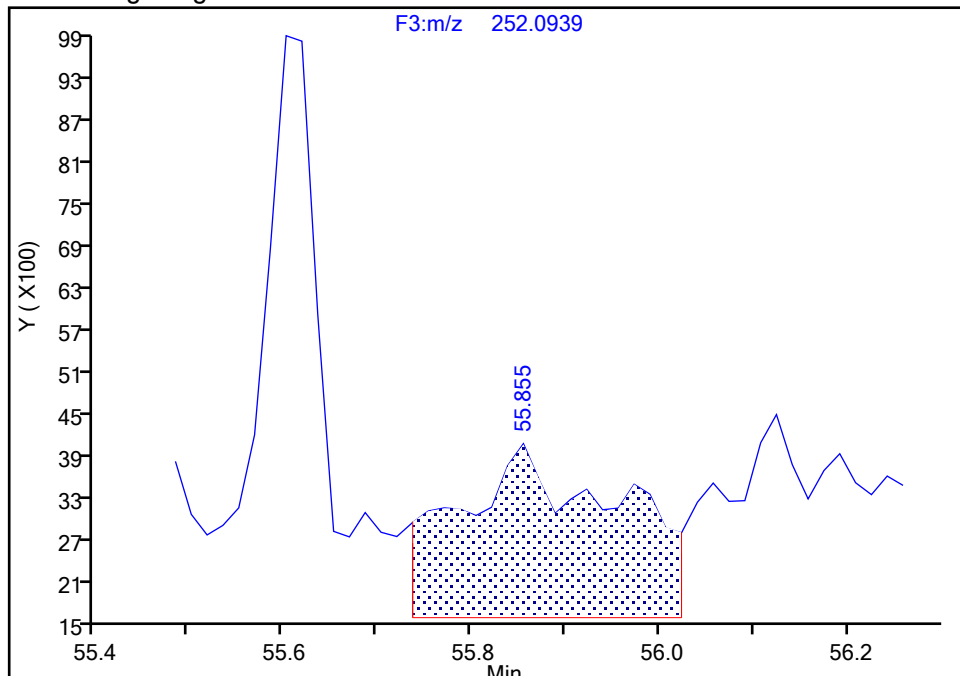
## Perylene Standards



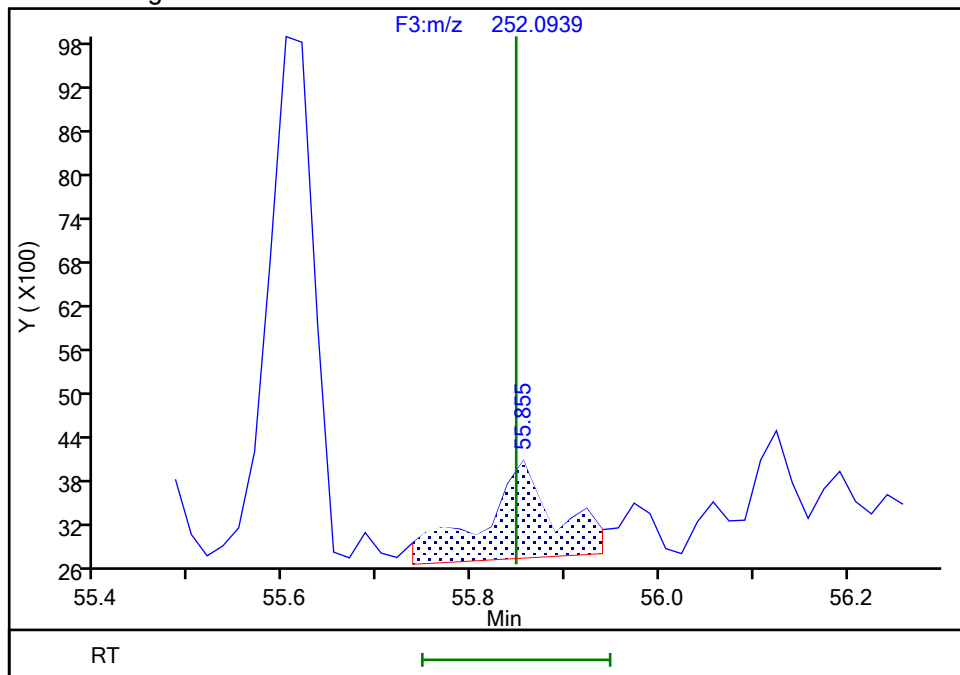
Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d				
Injection Date:	17-Jul-2024 16:04:00	Instrument ID:	D3PAH		
Lims ID:	140-36940-A-8-D	Lab Sample ID:	140-36940-8		
Client ID:	M23 - EPN 4-1\IN-701-FIELD BLANK-COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL		
Column:	Restek-5Sil MS 25um ( 0.25 mm)	Detector	F3(44.04 :59.98 )		

Signal: 1

RT: 55.86  
Area: 29104  
Amount: 5.664015  
Amount Units: pg/ul



RT: 55.86  
Area: 7322  
Amount: 1.424956  
Amount Units: pg/ul



BASFHWC-Form 2024-09-06  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d

Injection Date: 17-Jul-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED

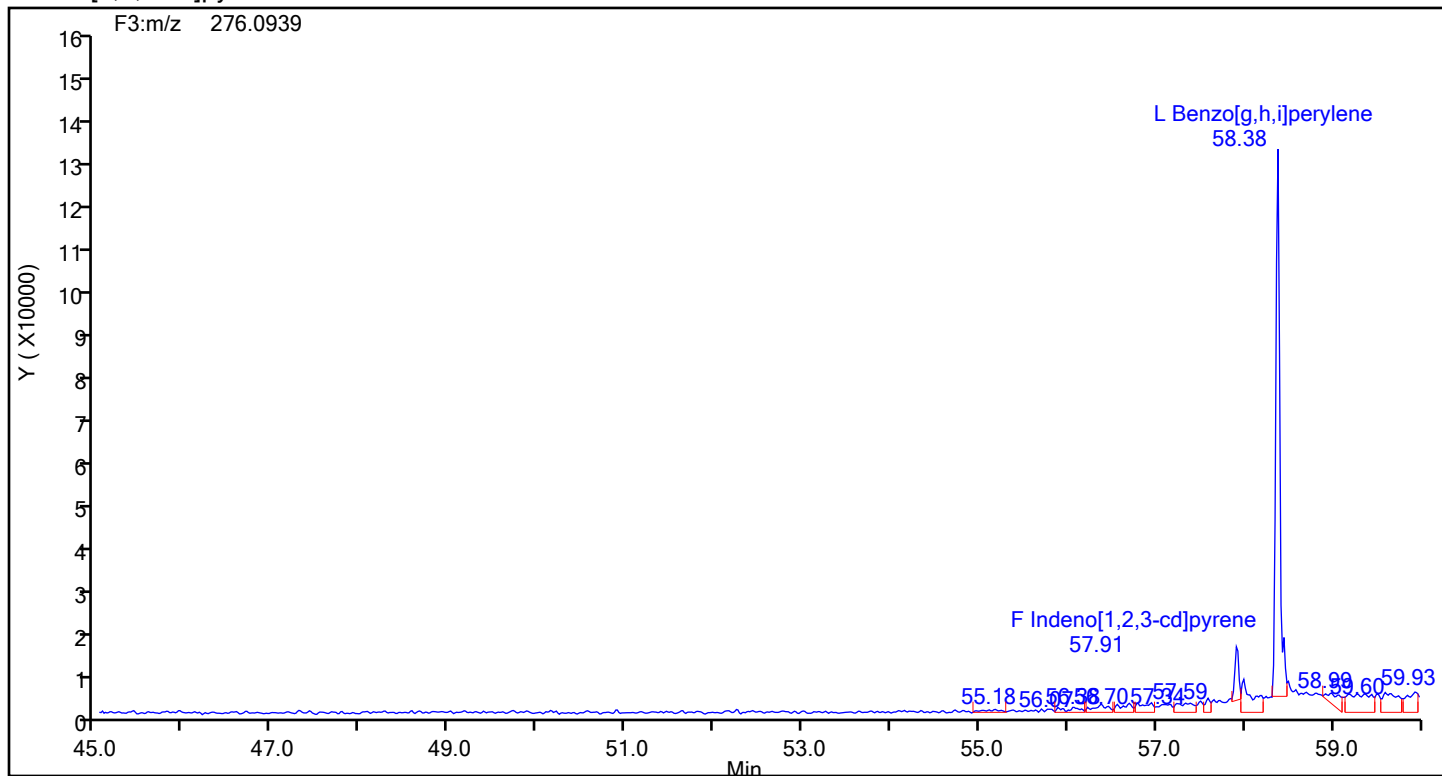
Worklist#: 88872

Sample Line#: 6

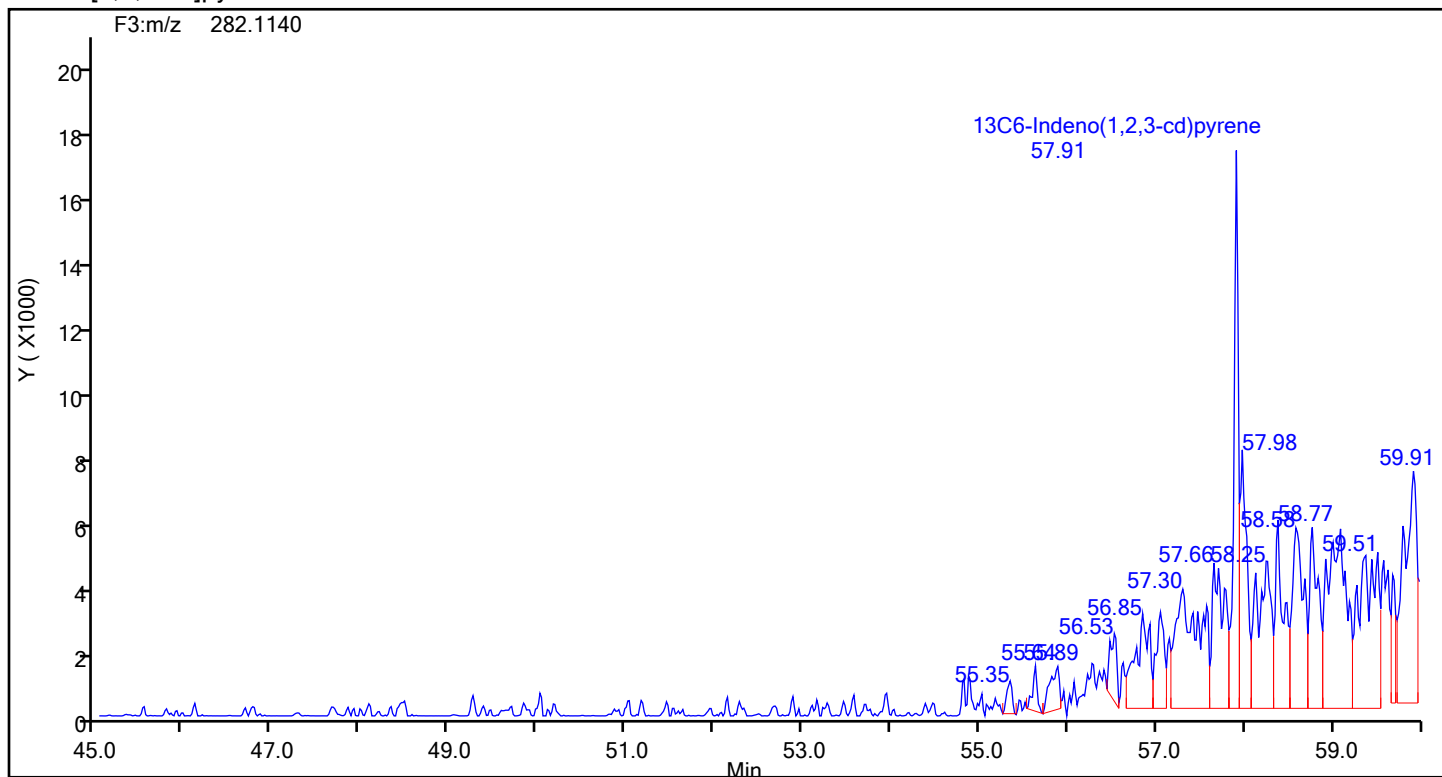
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

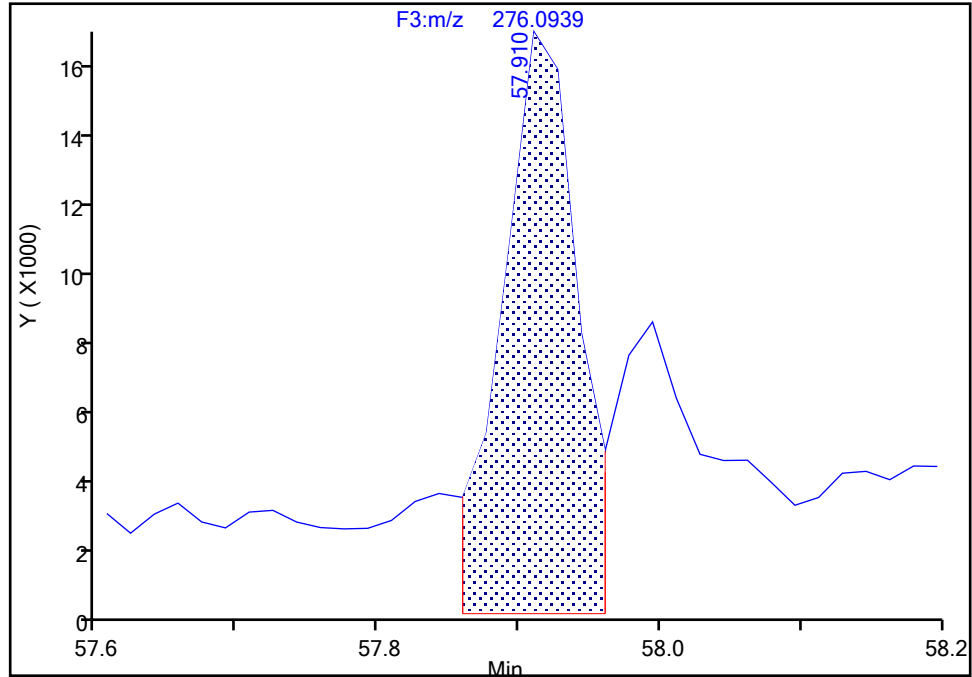
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

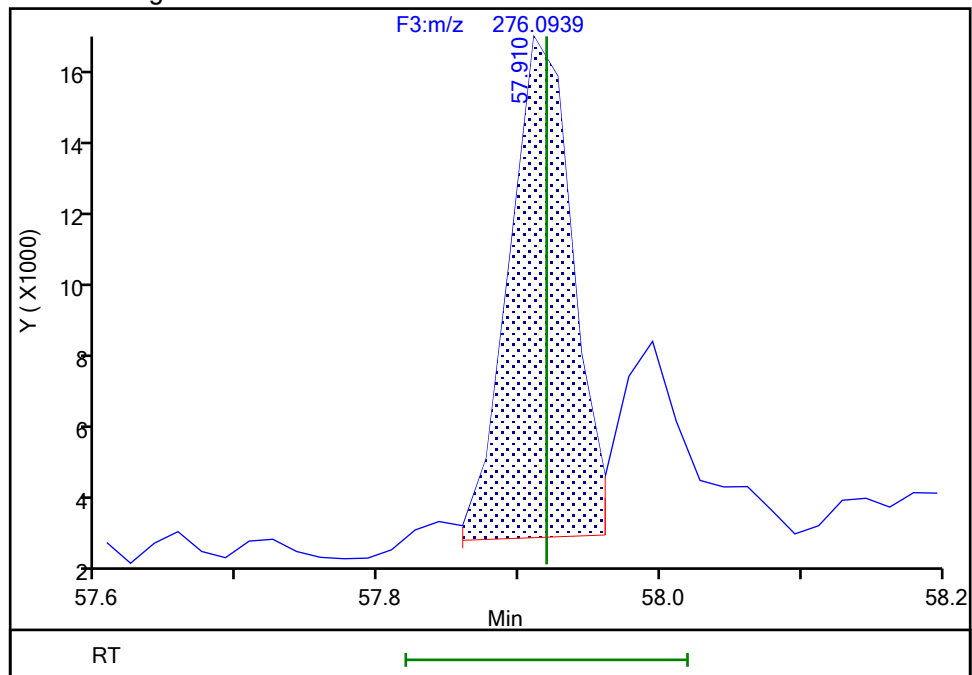
RT: 57.91  
Area: 55519  
Amount: 8.612442  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.91  
Area: 39749  
Amount: 6.166105  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:48:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d

Injection Date: 17-Jul-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED

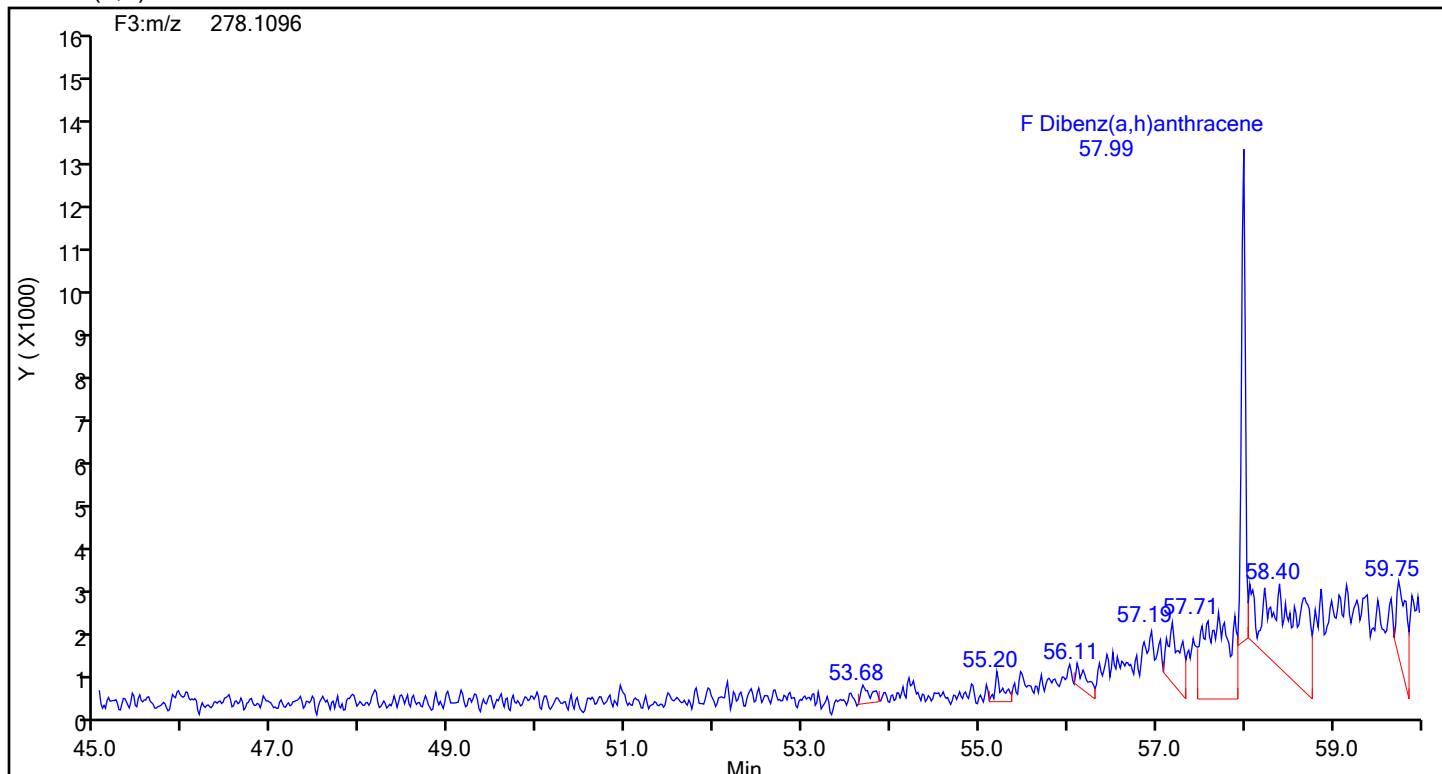
Worklist#: 88872

Sample Line#: 6

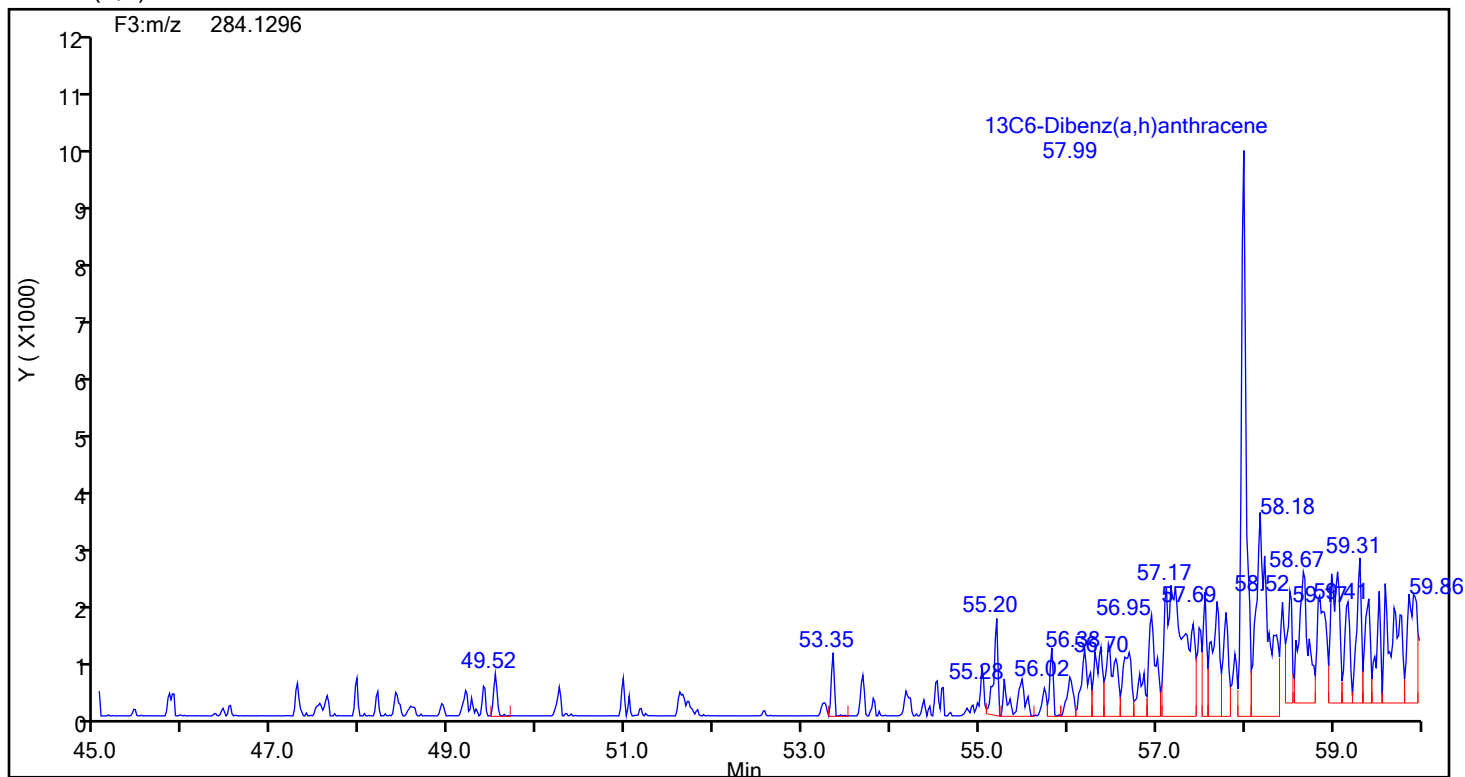
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

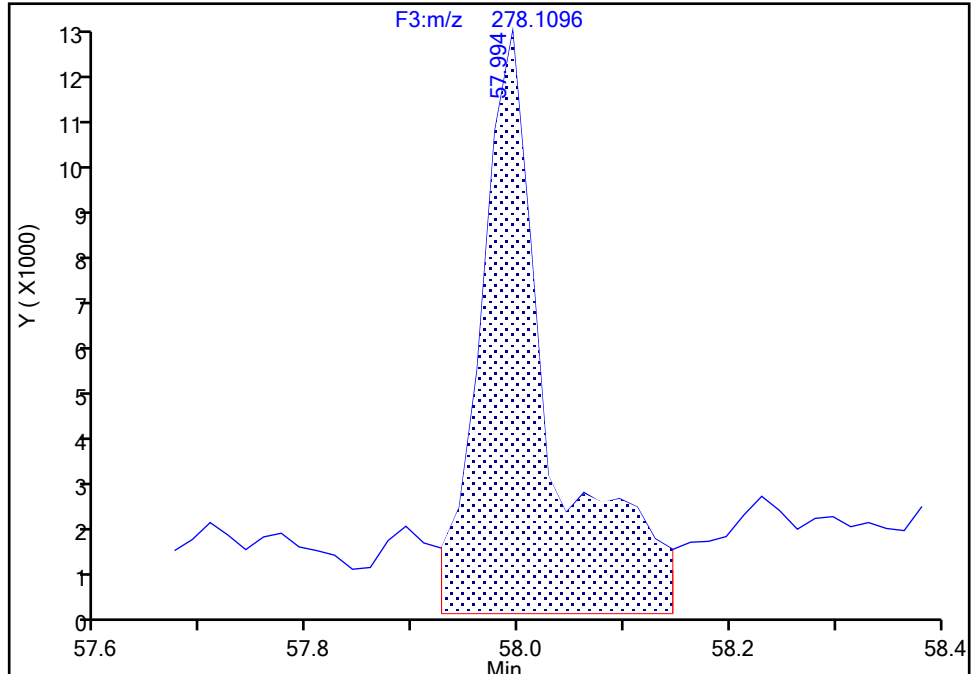
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

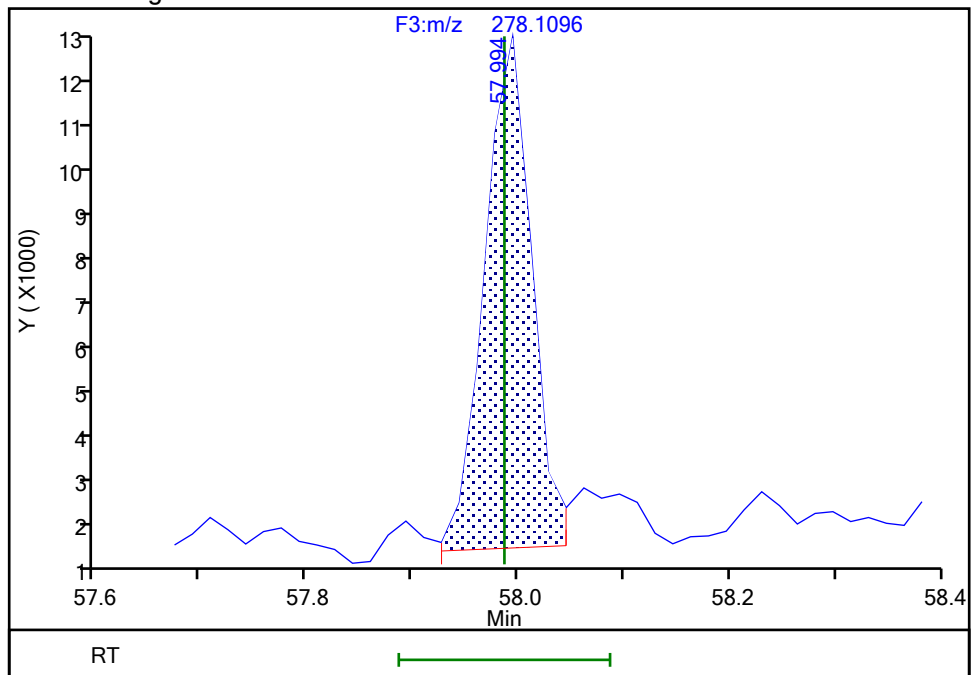
RT: 57.99  
Area: 56601  
Amount: 13.178590  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.99  
Area: 34777  
Amount: 8.097239  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:48:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d

Injection Date: 17-Jul-2024 16:04:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED

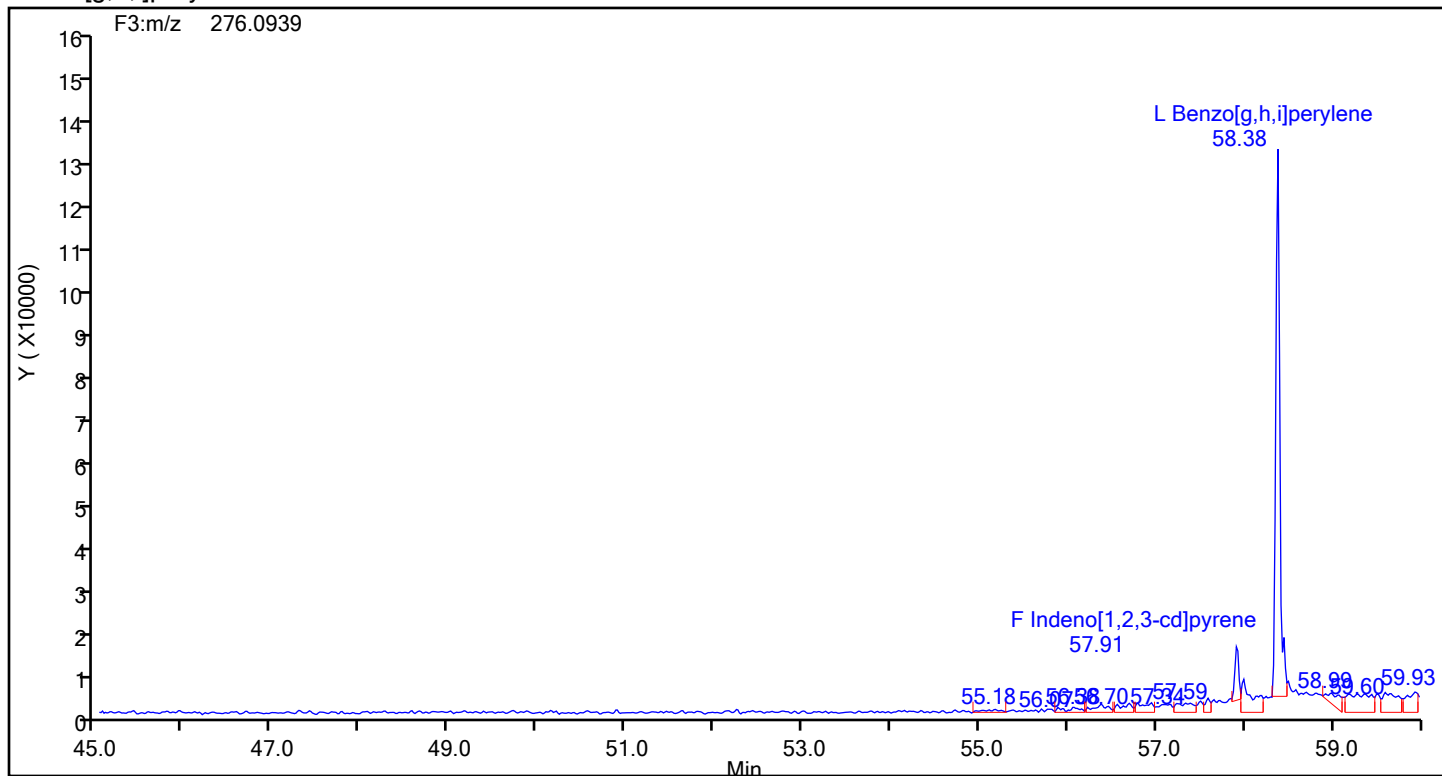
Worklist#: 88872

Sample Line#: 6

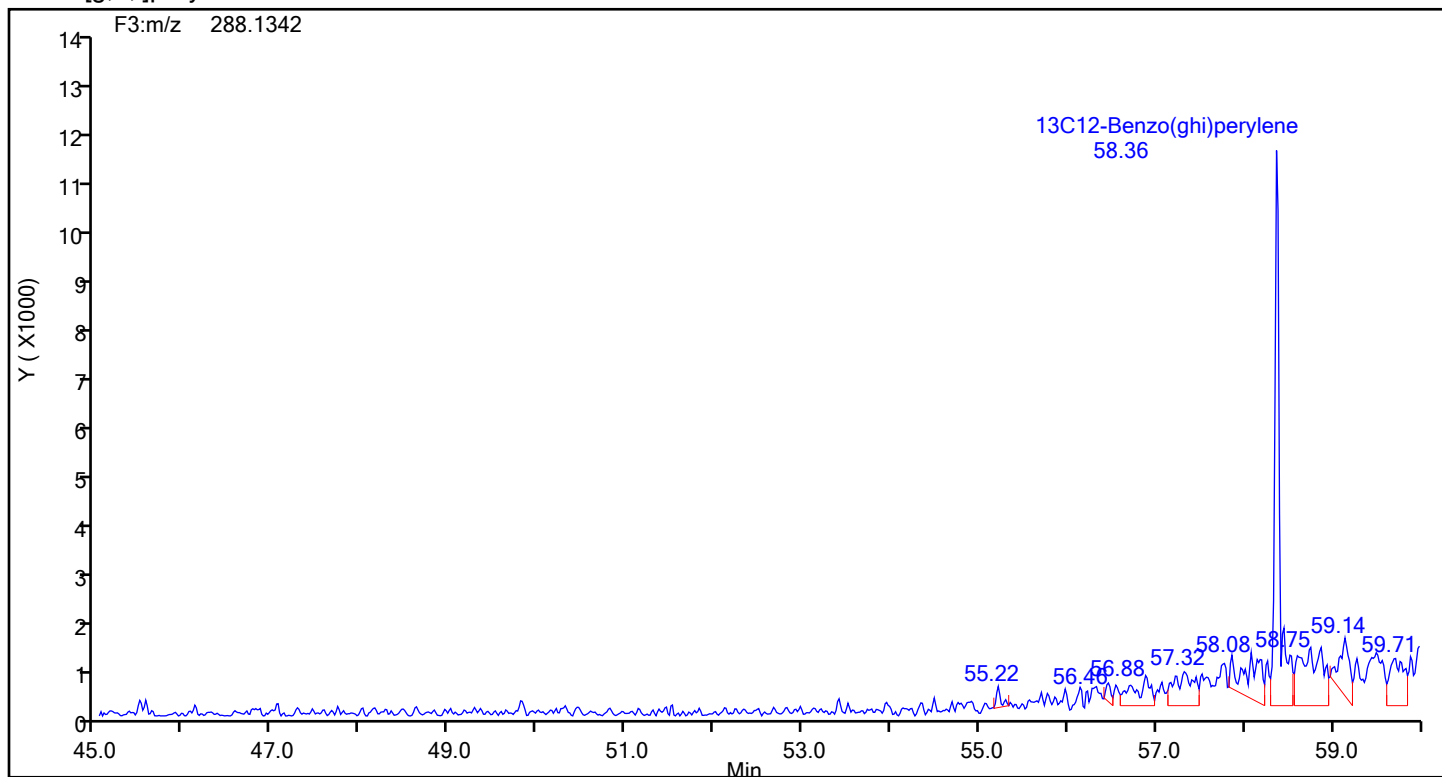
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



## Eurofins Knoxville

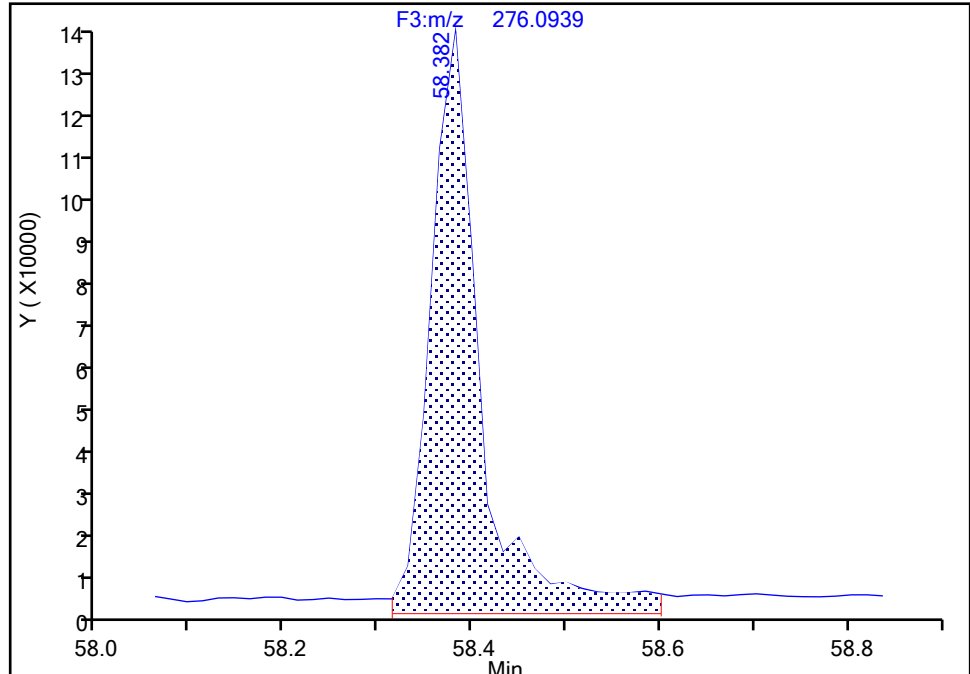
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Injection Date: 17-Jul-2024 16:04:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-8-D Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

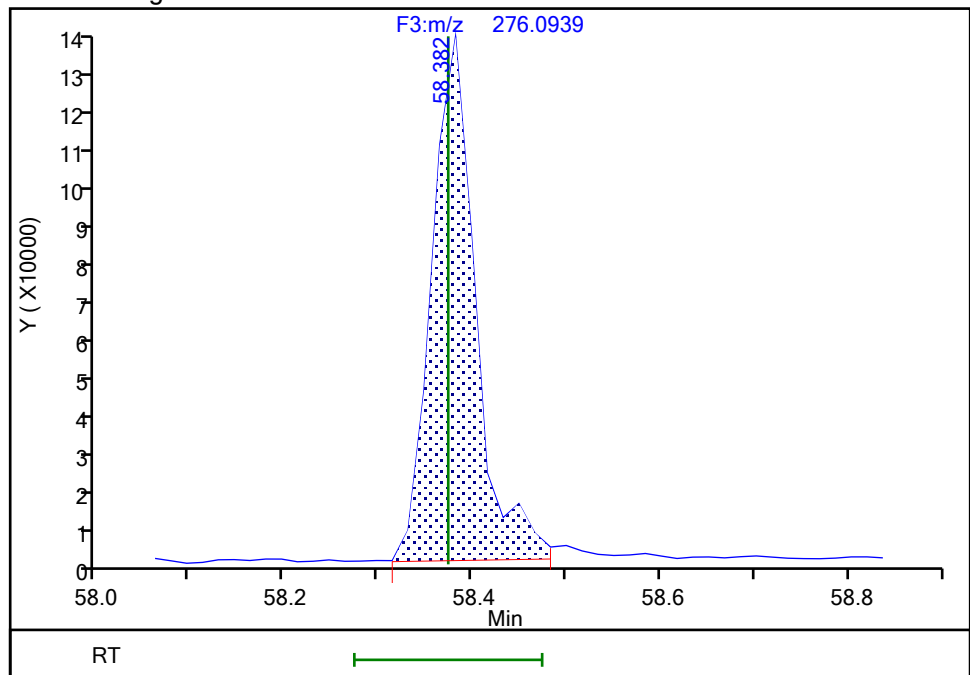
RT: 58.38  
Area: 489468  
Amount: 87.045820  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.38  
Area: 415134  
Amount: 73.826439  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 17-Jul-2024 20:48:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\140-36940-a-8-da.d  
Lims ID: 140-36940-A-8-D  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Sample Type: Client  
Inject. Date: 17-Jul-2024 16:04:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Sample Info:  
Misc. Info.: 140-0033545-006  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 20:58:27 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1682

First Level Reviewer: Q9DB

Date: 17-Jul-2024 20:48:48

Compound	Amount Added	Amount Recovered	% Rec.
Anthracin-d10	10.0	0.2261	22.61
13C6-Benzo(c)fluorene	66.7	2.83	42.47
13C12-Benzo(j)fluoranthene	66.7	3.91	58.61

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>A-2174,A-2175 M23 MEDIA</u> <u>CHECK XAD,FILTER</u>	Lab Sample ID: <u>140-36940-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-14-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/17/2024 02:24</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88831</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	67.8	J B	75.0	75.0	0.0613
91-57-6	2-Methylnaphthalene	29.5	J B	75.0	75.0	0.0548
208-96-8	Acenaphthylene	0.505	J B	3.00	3.00	0.0431
83-32-9	Acenaphthene	8.93	J B	30.0	30.0	0.0630
86-73-7	Fluorene	10.0	J B	30.0	30.0	0.0690
85-01-8	Phenanthrene	14.4	B	6.00	6.00	0.0811
120-12-7	Anthracene	0.276	J	30.0	30.0	0.0792
206-44-0	Fluoranthene	2.98	J B	6.00	6.00	0.0221
129-00-0	Pyrene	3.64	J B	6.00	6.00	0.0225
56-55-3	Benzo[a]anthracene	0.0581	J B	6.00	6.00	0.0203
218-01-9	Chrysene	0.987	J B	6.00	6.00	0.0202
205-99-2	Benzo[b]fluoranthene	0.253	J B	30.0	30.0	0.00927
207-08-9	Benzo[k]fluoranthene	0.104	J B	6.00	6.00	0.00885
192-97-2	Benzo[e]pyrene	0.220	J B	6.00	6.00	0.00794
50-32-8	Benzo[a]pyrene	0.111	J	3.00	3.00	0.00689
198-55-0	Perylene	0.0828	J B	3.00	3.00	0.00746
193-39-5	Indeno[1,2,3-cd]pyrene	0.0756	J B	3.00	3.00	0.00450
53-70-3	Dibenz(a,h)anthracene	0.0575	J B	6.00	6.00	0.00358
191-24-2	Benzo[g,h,i]perylene	0.127	J B	6.00	6.00	0.00466



FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>A-2174,A-2175 M23 MEDIA</u> <u>CHECK XAD,FILTER</u>	Lab Sample ID: <u>140-36940-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-14-d.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/17/2024 02:24</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88831</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	77		20-130
STL03357	13C6-2-Methylnaphthalene	72		20-130
189811-56-1	13C6-Acenaphthylene	95		20-130
189811-57-2	13C6-Acenaphthene	83		20-130
STL00616	13C6-Fluorene	85		20-130
1397194-60-3	13C6-Fluoranthrene	84		20-130
1397214-90-2	13C3-Pyrene	84		20-130
917378-11-1	13C6-Benzo (a) anthracene	84		20-130
1397177-72-8	13C6-Chrysene	84		20-130
STL03358	13C6-Benzo (b) fluoranthene	93		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	84		20-130
STL03382	13C4-Benzo (e) pyrene	87		20-130
STL03359	13C4-Benzo (a) pyrene	90		20-130
1520-96-3	Perylene-d12	88		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	118		20-130
STL03360	13C6-Dibenz (a,h) anthracene	100		20-130
350820-11-0	13C12-Benzo (ghi) perylene	85		20-130
189811-60-7	13C6-Anthracene	75		20-130
1189955-53-0	13C6-Phenanthrene	68		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Lims ID: 140-36940-A-14-D  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Sample Type: Client  
Inject. Date: 17-Jul-2024 02:24:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033530-006  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 13:26:27 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 13:26:36

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:21	20842315		3.3746	76.8	76.8	0.0124	0.0124	76.82	
Naphthalene	11:21	12138864		1.2893	45.2	45.2	0.0408	0.0408		
D 13C6-2-Methylnaphthalene	13:45	9341388		1.6031	72.5	72.5	0.002867	0.002867	72.48	
2-Methylnaphthalene	13:45	2346316		1.2786	19.6	19.6	0.0365	0.0365		
D 13C6-Acenaphthylene	16:36	12567932		1.6520	94.6	94.6	0.0100	0.0100	94.62	
Acenaphthylene	16:36	52140		2.3661	0.3370	0.3370	0.0287	0.0287		
* Acenaphthene-d10	17:10	4019930		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:17	6539640		0.9792	83.1	83.1	0.009600	0.009600	83.07	
Acenaphthene	17:18	494094		1.2697	5.951	5.951	0.0420	0.0420		
D 13C6-Fluorene	19:33	6102435		0.8898	85.3	85.3	0.007825	0.007825	85.30	
Fluorene	19:34	512061		1.2532	6.696	6.696	0.0460	0.0460		
D 13C6-Phenanthrene	24:54	8626880		0.5724	68.4	68.4	0.005540	0.005540	68.39	
Phenanthrene	24:54	914026		1.1044	9.593	9.593	0.0541	0.0541		
\$ Anthracin-d10	25:09						0.000974	0.000974		
D 13C6-Anthracene	25:14	7482070		0.4523	75.1	75.1	0.007011	0.007011	75.06	
Anthracene	25:15	18708		1.3586	0.1840	0.1840	0.0528	0.0528		M
D 13C6-Fluoranthrene	33:37	22277787		1.1994	84.3	84.3	0.0167	0.0167	84.29	
Fluoranthene	33:38	509845		1.1513	1.988	1.988	0.0147	0.0147		
* Pyrene-d10	35:10	11017940		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:18	25001275		1.3512	84.0	84.0	0.0132	0.0132	83.97	
Pyrene	35:18	645568		1.0652	2.424	2.424	0.0150	0.0150		
\$ 13C6-Benzo(c)fluorene	39:01						0.006412	0.006412		U
D 13C6-Benzo(a)anthracene	45:49	24151111		1.5189	84.2	84.2	0.0124	0.0124	84.18	
Benzo[a]anthracene	45:50	9111		0.9739	0.0387	0.0387	0.0136	0.0136		
D 13C6-Chrysene	46:05	25823339		1.6287	83.9	83.9	0.0116	0.0116	83.94	
Chrysene	46:06	166682		0.9815	0.6577	0.6577	0.0135	0.0135		
D 13C6-Benzo(b)fluoranthene	54:28	25568858		1.4621	92.6	92.6	0.002989	0.002989	92.58	
Benzo[b]fluoranthene	54:28	48445		1.1249	0.1684	0.1684	0.006182	0.006182		M
\$ 13C12-Benzo(j)fluoranthene	54:31						0.008808	0.008808		
D 13C6-Benzo(k)fluoranthene	54:35	27802261		1.7507	84.1	84.1	0.002496	0.002496	84.07	
Benzo[k]fluoranthene	54:36	21763		1.1271	0.0695	0.0695	0.005903	0.005903		Ma
* Benzo(e)pyrene-d12	55:21	9444609		5.7E+04	50.0	50.0				
D 13C4-Benzo(e)pyrene	55:26	26863135		1.6368	86.9	86.9	0.003778	0.003778	86.88	
Benzo[e]pyrene	55:26	39458		1.0013	0.1467	0.1467	0.005296	0.005296		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:34	26339001		1.5508	89.9	89.9	0.003988	0.003988	89.91	
Benzo[a]pyrene	55:34	21642		1.1130	0.0738	0.0738	0.004596	0.004596		M
D Perylene-d12	55:45	19840581		1.1917	88.1	88.1	0.009757	0.009757	88.14	
Perylene	55:46	15670		1.4307	0.0552	0.0552	0.004975	0.004975		M
D 13C6-Indeno(1,2,3-cd)pyrene	57:53	22760469		1.0218	117.9	117.9	0.007055	0.007055	118	M
Indeno[1,2,3-cd]pyrene	57:53	12905		1.1249	0.0504	0.0504	0.002997	0.002997		M
D 13C6-Dibenz(a,h)anthracene	57:58	20006776		1.0553	100.4	100.4	0.004814	0.004814	100	
Dibenz(a,h)anthracene	57:58	8679		1.1314	0.0383	0.0383	0.002385	0.002385		M
D 13C12-Benzo(ghi)perylene	58:20	20502910		1.2749	85.1	85.1	0.001324	0.001324	85.14	
Benzo[g,h,i]perylene	58:21	22261		1.2838	0.0846	0.0846	0.003109	0.003109		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Lims ID: 140-36940-A-14-D  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Sample Type: Client  
Inject. Date: 17-Jul-2024 02:24:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033530-006  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 13:26:27 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1676

First Level Reviewer: F9EE

Date: 17-Jul-2024 13:26:36

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:21	11:23	-3	0.661	20842315	7084772	481	1202	14729		
Naphthalene											
128.0626	11:21	11:23	-3	1.001	12138864	4047569	1492	3730	2713		
13C6-2-Methylnaphthalene											
148.0984	13:45	13:45	-1	0.800	9341388	4335426	53	132	81800		
2-Methylnaphthalene											
142.0783	13:45	13:46	-2	1.000	2346316	1050883	810	2025	1297		
13C6-Acenaphthylene											
158.0828	16:36	16:36	-1	0.967	12567932	4362631	190	475	22961		
Acenaphthylene											
152.0626	16:36	16:37	-1	1.000	52140	17862	605	1512	30		
Acenaphthene-d10											
164.1404	17:10	17:11	-1		4019930	1436162	26	65	55237		
13C6-Acenaphthene											
160.0984	17:17	17:17	-1	1.007	6539640	2225602	108	270	20607		
Acenaphthene											
154.0783	17:18	17:18	-1	1.001	494094	162765	475	1187	343		
13C6-Fluorene											
172.0984	19:33	19:33	-1	1.139	6102435	1725496	80	200	21569		
Fluorene											
166.0783	19:34	19:34	-1	1.001	512061	148316	398	995	373		
13C6-Phenanthrene											
184.0984	24:54	24:56	-2	0.708	8626880	1975524	52	130	37991		
Phenanthrene											
178.0783	24:54	24:54	-2	1.000	914026	215812	472	1180	457		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10	188.1410	25:08					7	17			
13C6-Anthracene	184.0984	25:14	25:15	-2	0.717	7482070	1643959	52	130	31615	
Anthracene	178.0783	25:15	25:15	-1	1.001	18708	3694	472	1180	8	M
13C6-Fluoranthrene	208.0984	33:37	33:37	-1	0.956	22277787	4409532	329	822	13403	
Fluoranthene	202.0783	33:38	33:38	-1	1.000	509845	98204	299	747	328	
Pyrene-d10	212.1404	35:10	35:11	-1		11017940	2049620	44	110	46582	
13C3-Pyrene	205.0883	35:18	35:19	-1	1.004	25001275	4672092	292	730	16000	
Pyrene	202.0783	35:18	35:19	-1	1.000	645568	122747	299	747	411	
13C6-Benzo(c)fluorene	222.1134	39:01					54	135			U
13C6-Benzo(a)anthracene	234.1140	45:49	45:49	-1	1.303	24151111	4296509	479	1197	8970	
Benzo[a]anthracene	228.0939	45:50	45:49	0	1.000	9111	1659	227	567	7	
13C6-Chrysene	234.1140	46:05	46:05	-2	1.310	25823339	4282249	479	1197	8940	
Chrysene	228.0939	46:06	46:05	-1	1.000	166682	28405	227	567	125	
13C6-Benzo(b)fluoranthene	258.1140	54:28	54:28	-1	0.984	25568858	6758298	111	277	60886	
Benzo[b]fluoranthene	252.0939	54:28	54:28	-1	1.000	48445	10513	188	470	56	M
13C12-Benzo(j)fluoranthene	264.1336	54:30					303	757			M
13C6-Benzo(k)fluoranthene	258.1140	54:35	54:35	-1	0.986	27802261	7064082	111	277	63640	
Benzo[k]fluoranthene	252.0939	54:36	54:36	-1	1.000	21763	4885	188	470	26	Ma
Benzo(e)pyrene-d12	264.1692	55:21	55:22	-1		9444609	3169411	295	737	10744	M
13C4-Benzo(e)pyrene	256.1073	55:26	55:25	0	1.002	26863135	8864192	157	392	56460	
Benzo[e]pyrene	252.0939	55:26	55:27	-1	1.000	39458	9628	188	470	51	
13C4-Benzo(a)pyrene	256.1073	55:34	55:34	-1	1.004	26339001	9187053	157	392	58516	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											M
252.0939	55:34	55:34	-1	1.000	21642	5492	188	470	29		M
Perylene-d12											
264.1692	55:45	55:44	-1	1.007	19840581	6602840	295	737	22383		
Perylene											M
252.0939	55:46	55:46	-4	1.000	15670	4007	188	470	21		M
13C6-Indeno(1,2,3-cd)pyrene											M
282.1140	57:53	57:53	-1	1.046	22760469	8009071	183	457	43765		EM
Indeno[1,2,3-cd]pyrene											M
276.0939	57:53	57:53	-1	1.000	12905	4309	108	270	40		M
13C6-Dibenz(a,h)anthracene											
284.1296	57:58	57:58	0	1.047	20006776	6855566	129	322	53144		E
Dibenz(a,h)anthracene											M
278.1096	57:58	57:58	0	1.000	8679	2600	74	185	35		M
13C12-Benzo(ghi)perylene											
288.1342	58:20	58:21	-1	1.054	20502910	6764384	43	107	157311		
Benzo[g,h,i]perylene											M
276.0939	58:21	58:21	0	1.000	22261	7285	108	270	67		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

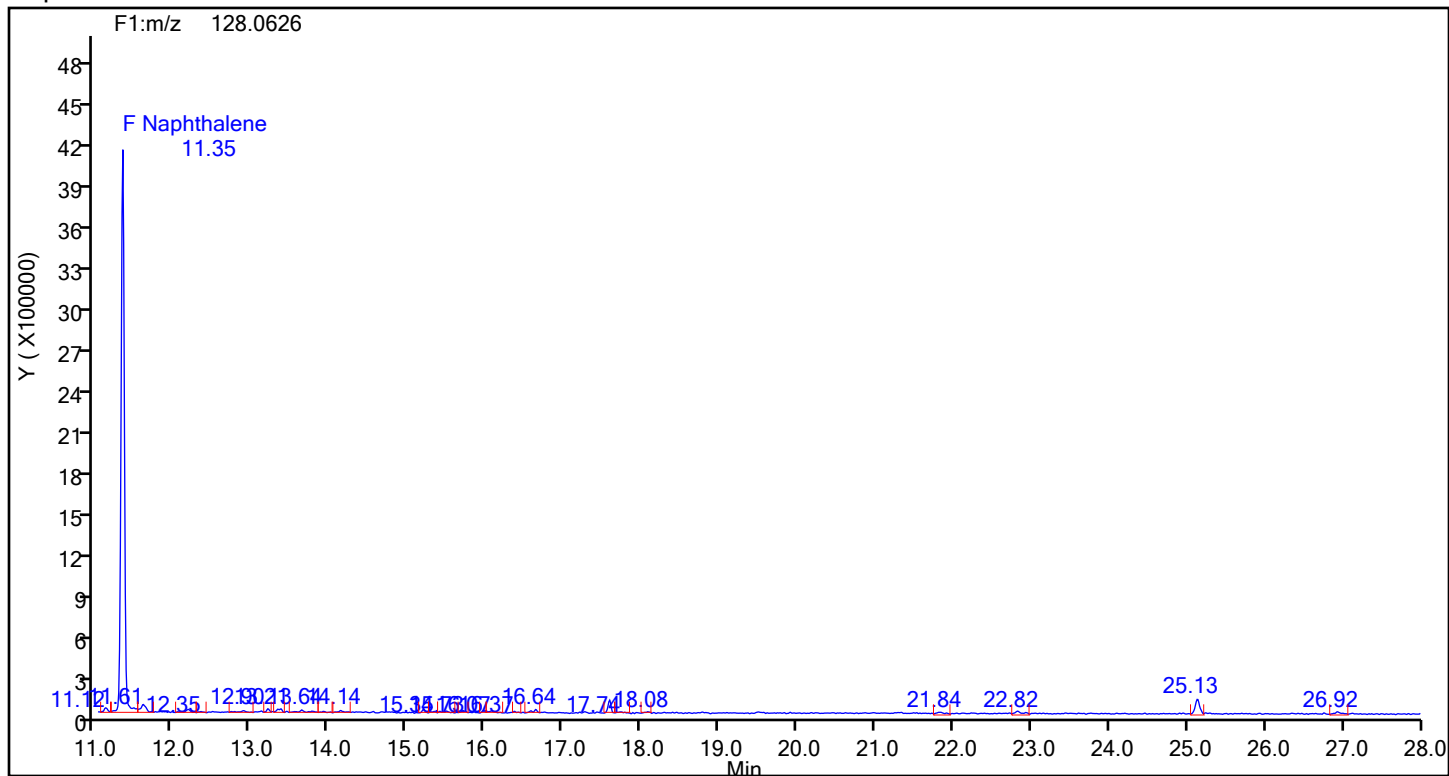
U - Marked Undetected

a - User Assigned ID

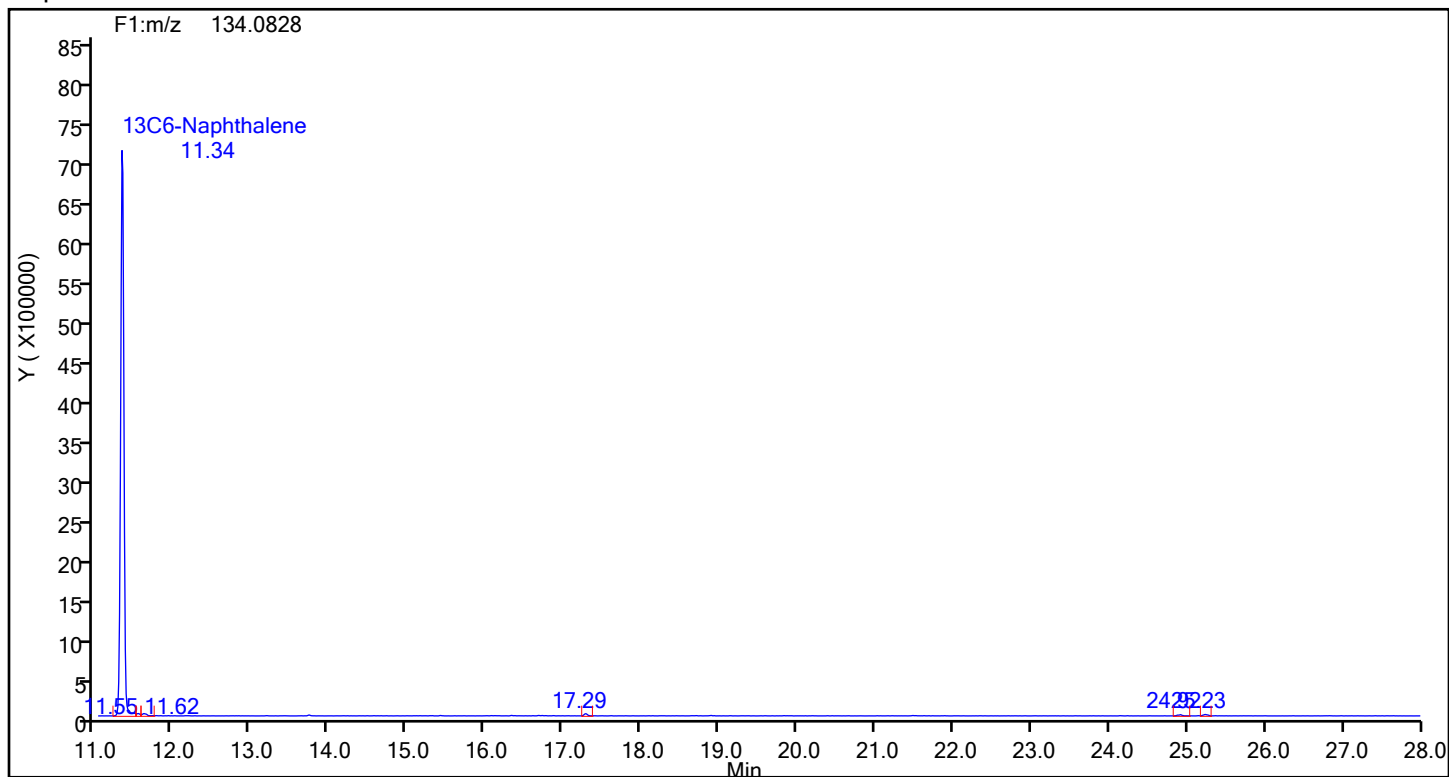
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



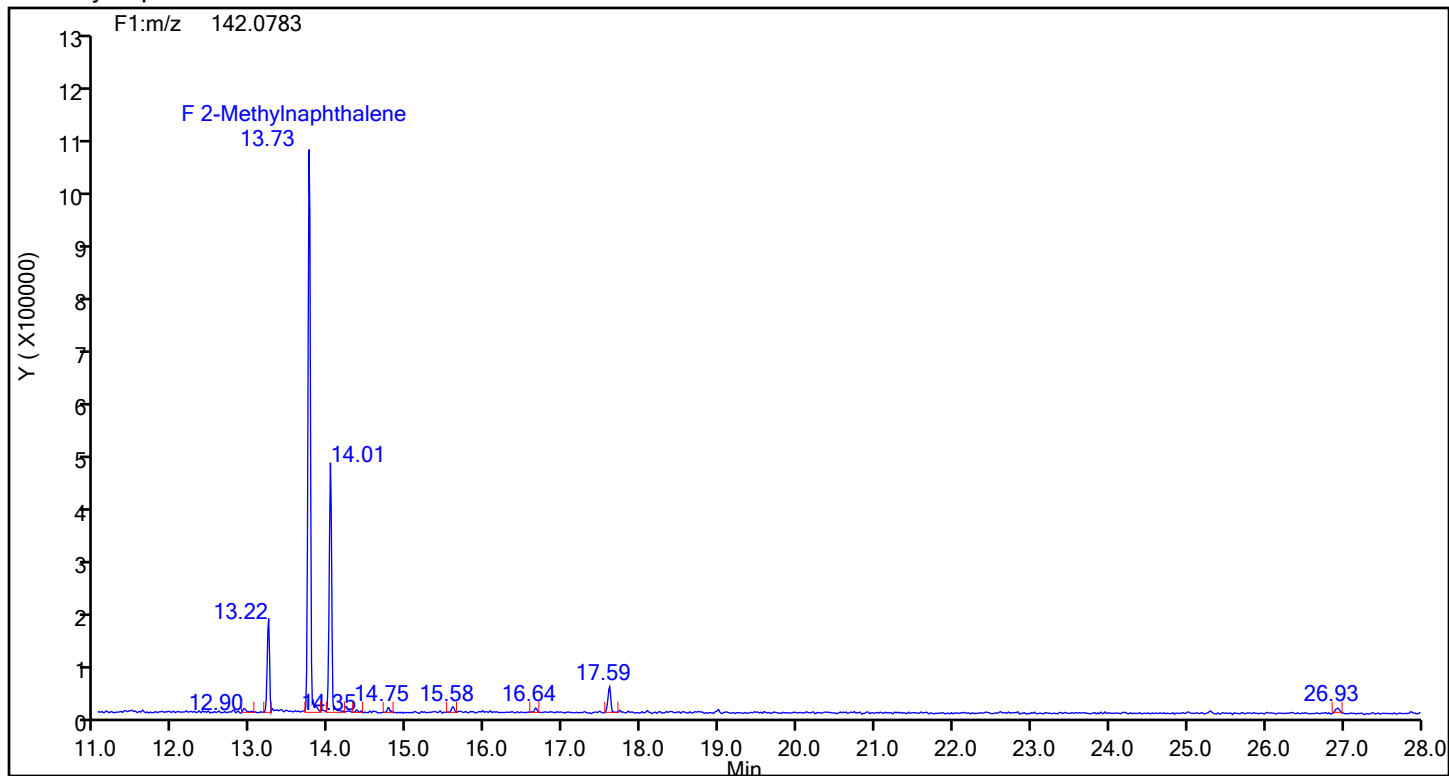
## Naphthalene Standards



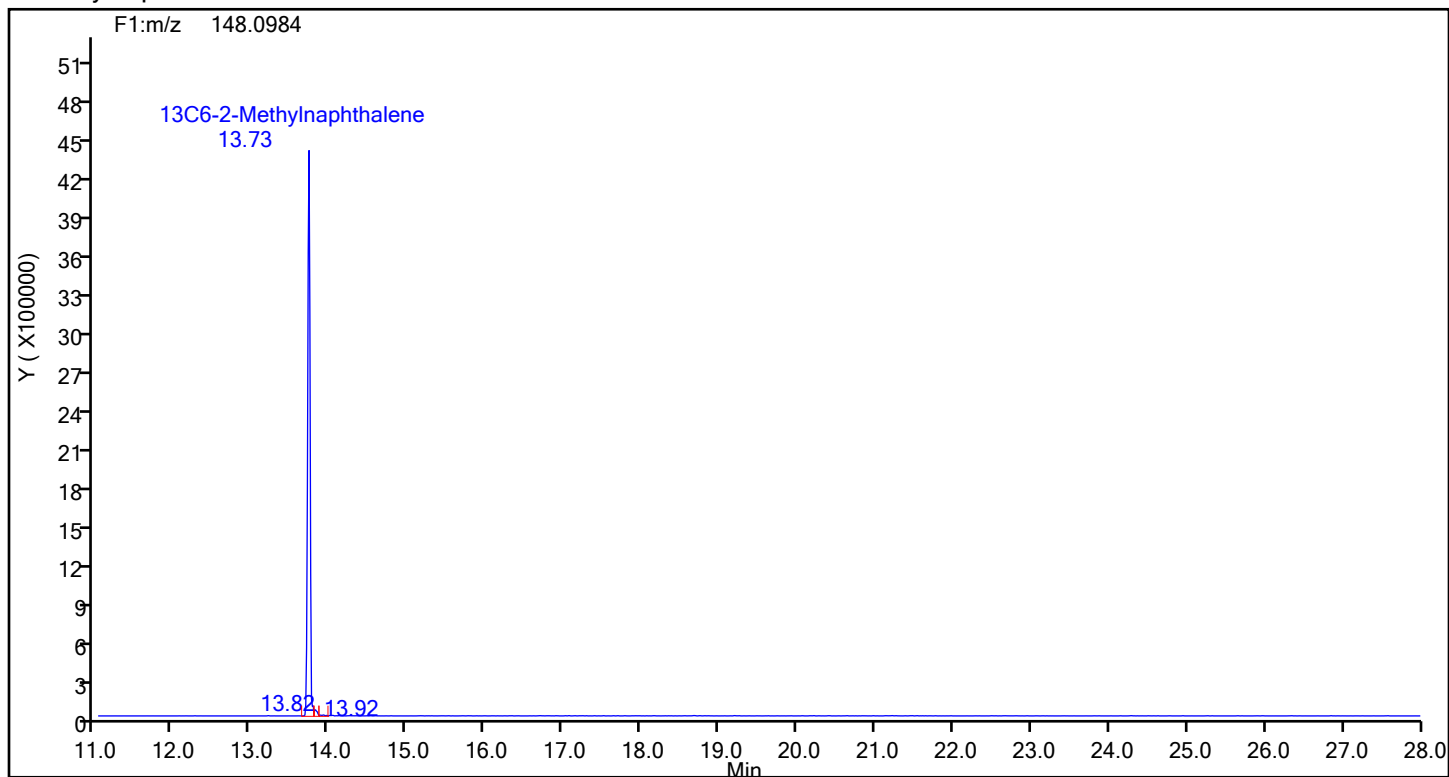
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



## 2-Methylnaphthalene Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d

Injection Date: 17-Jul-2024 02:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER

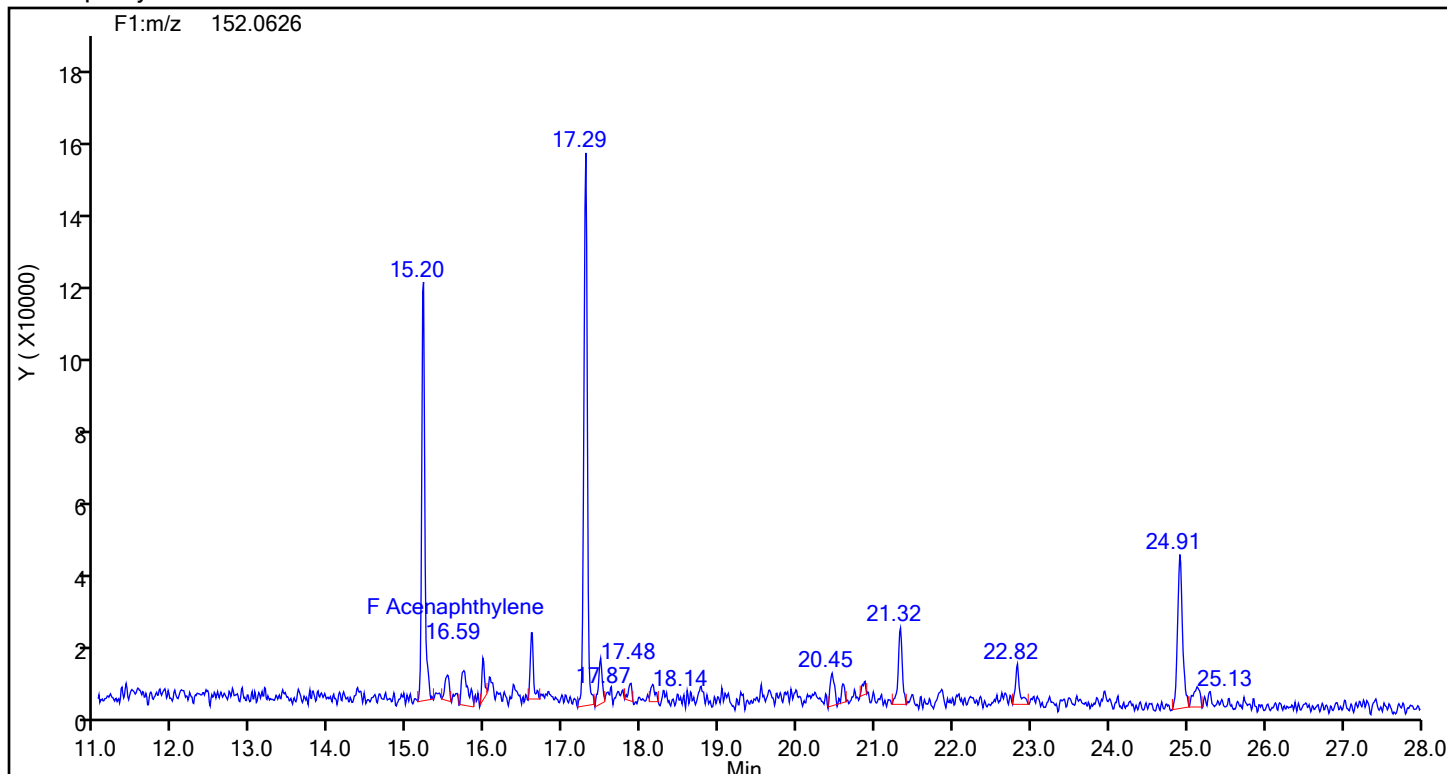
Worklist#: 88831

Sample Line#: 6

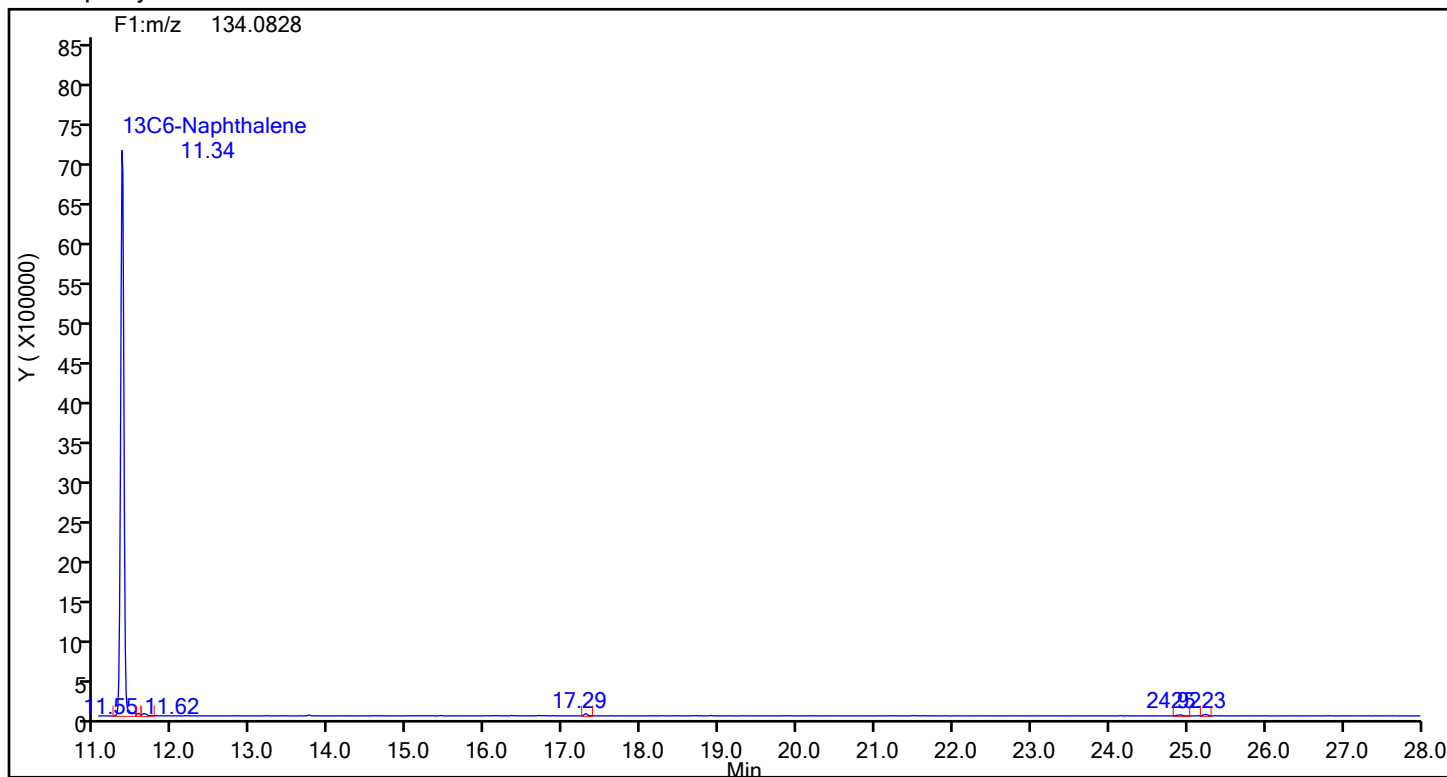
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Acenaphthylene



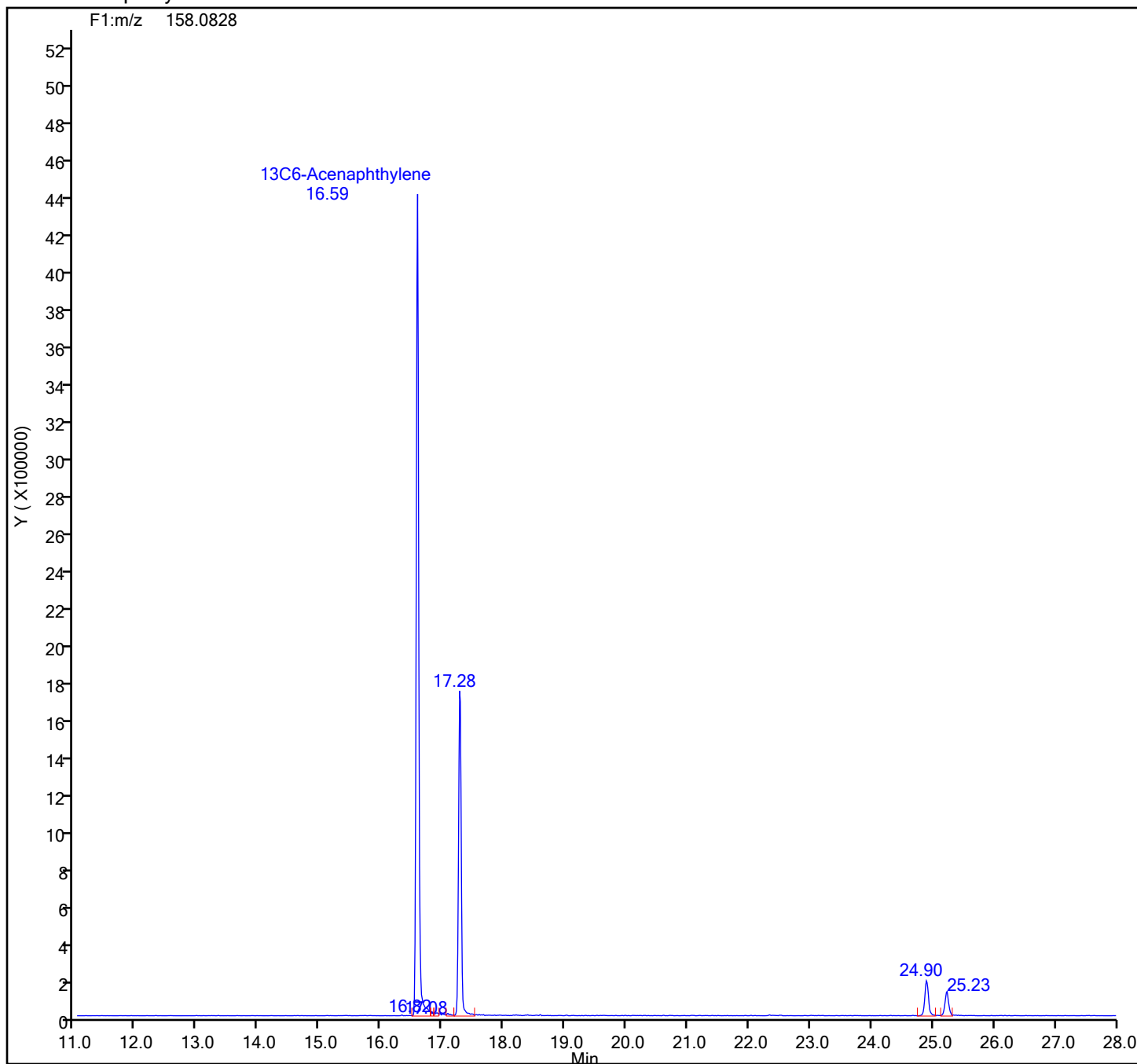
## Acenaphthylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

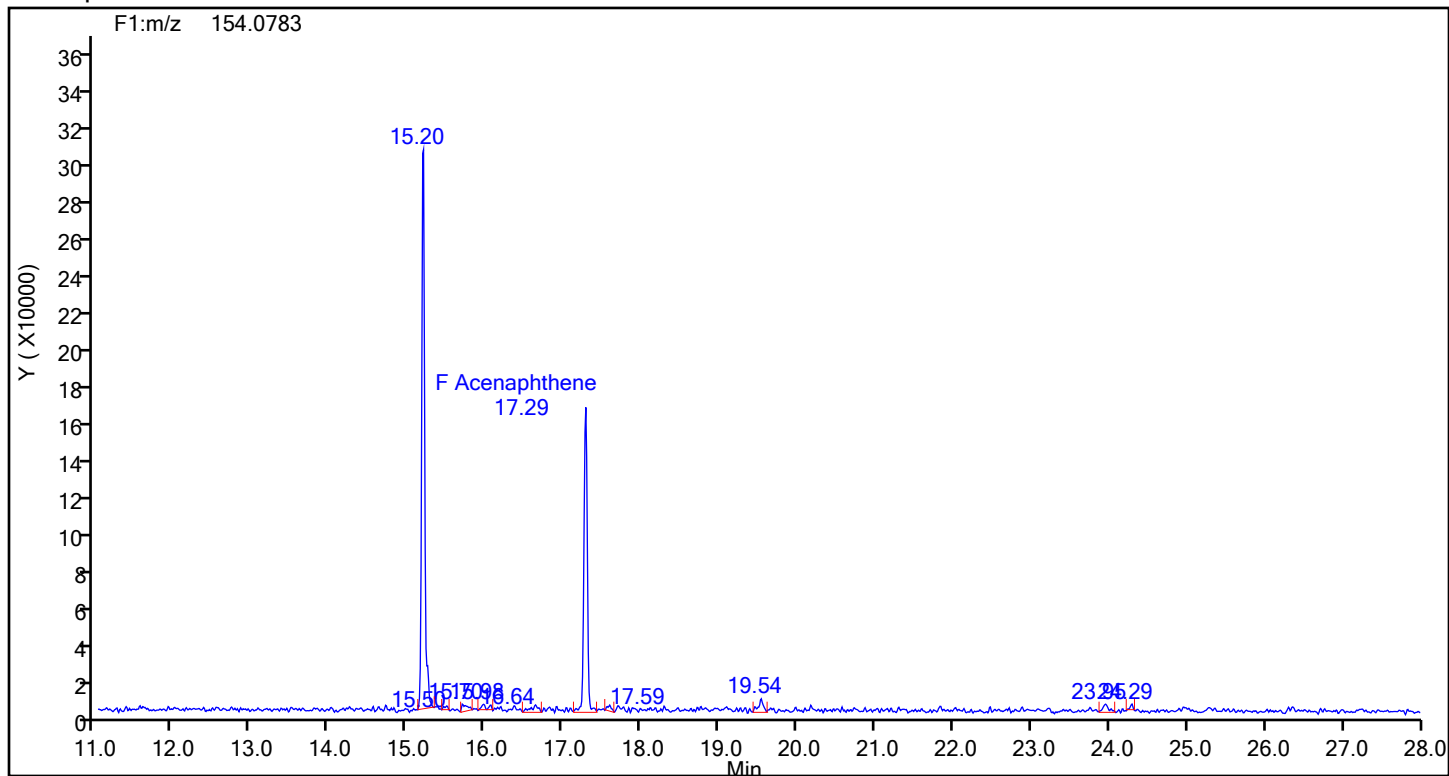
## 13C6-Acenaphthylene Standards



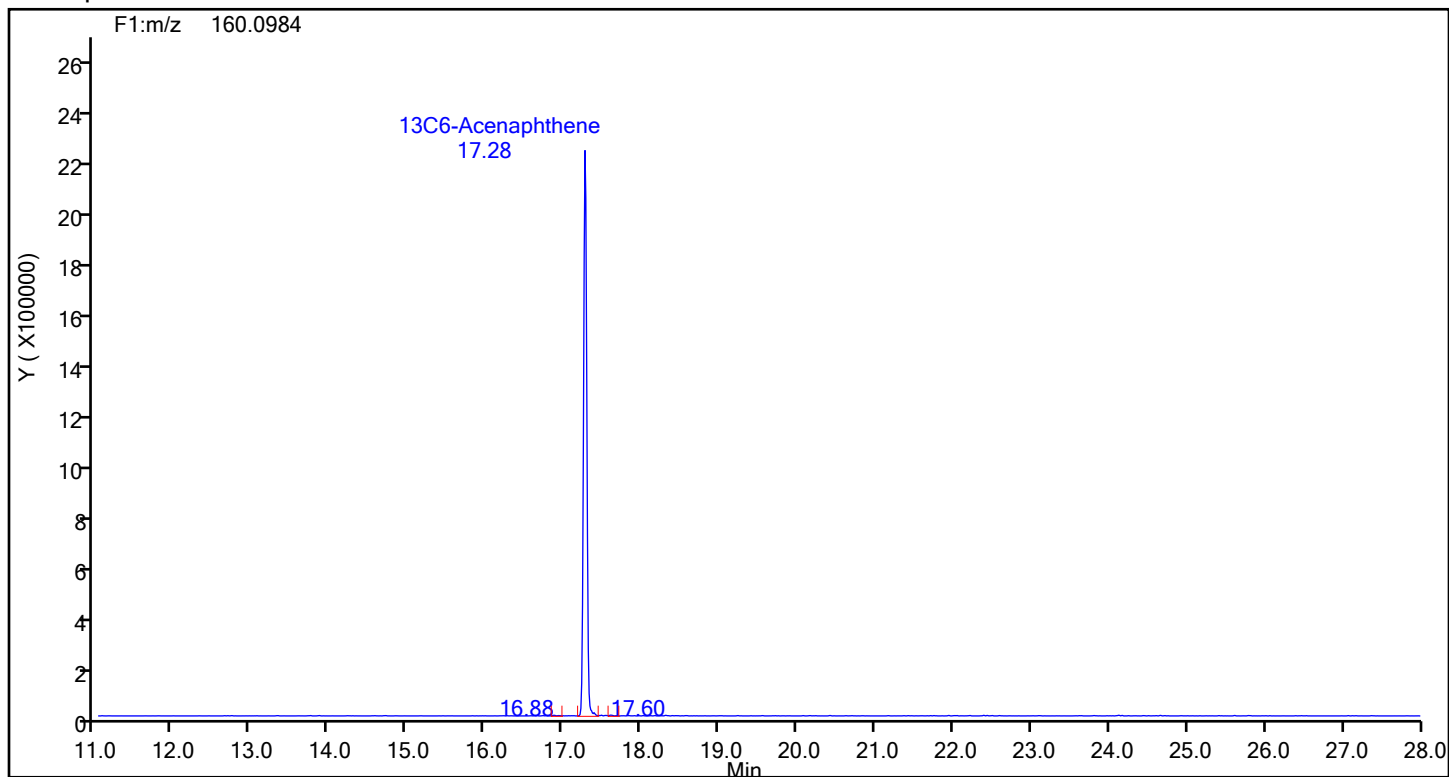
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



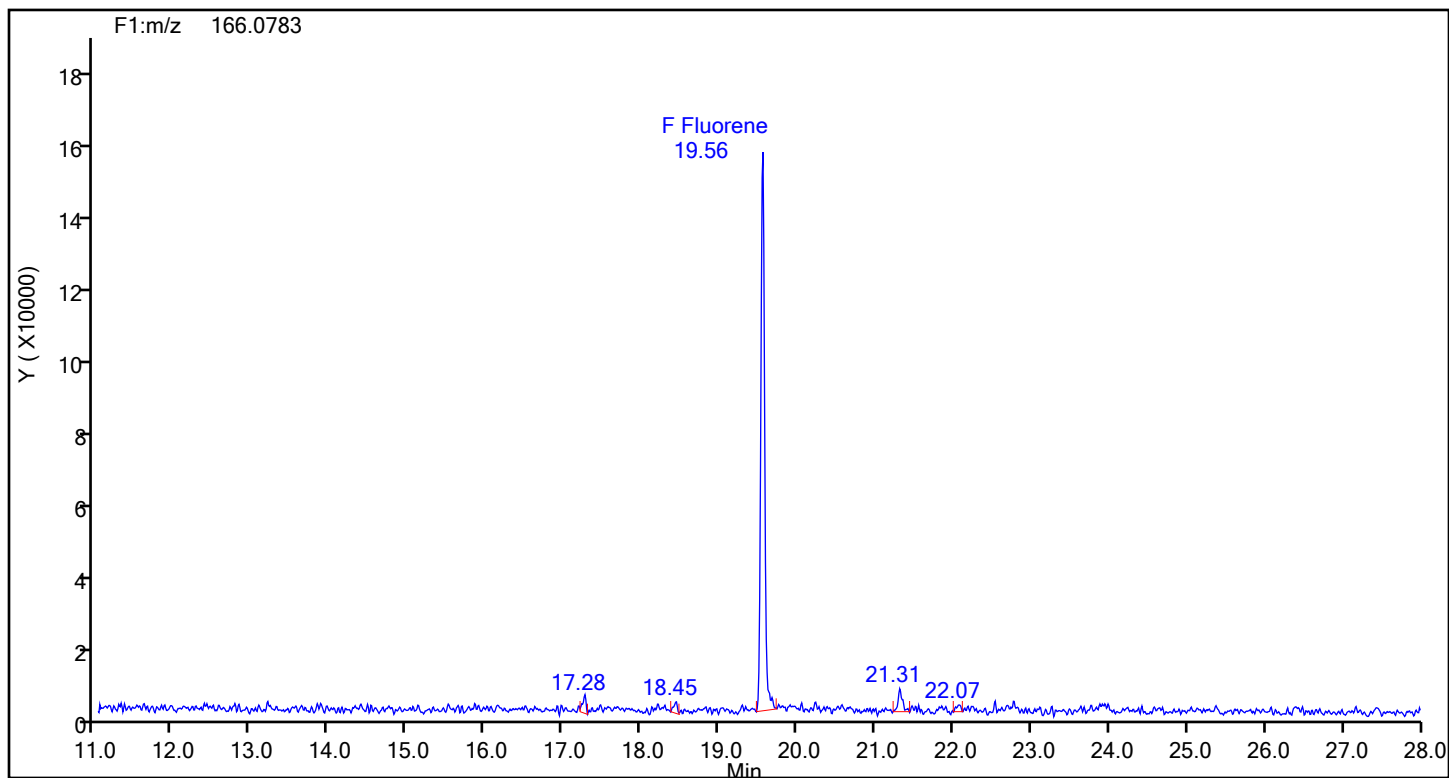
## Acenaphthene Standards



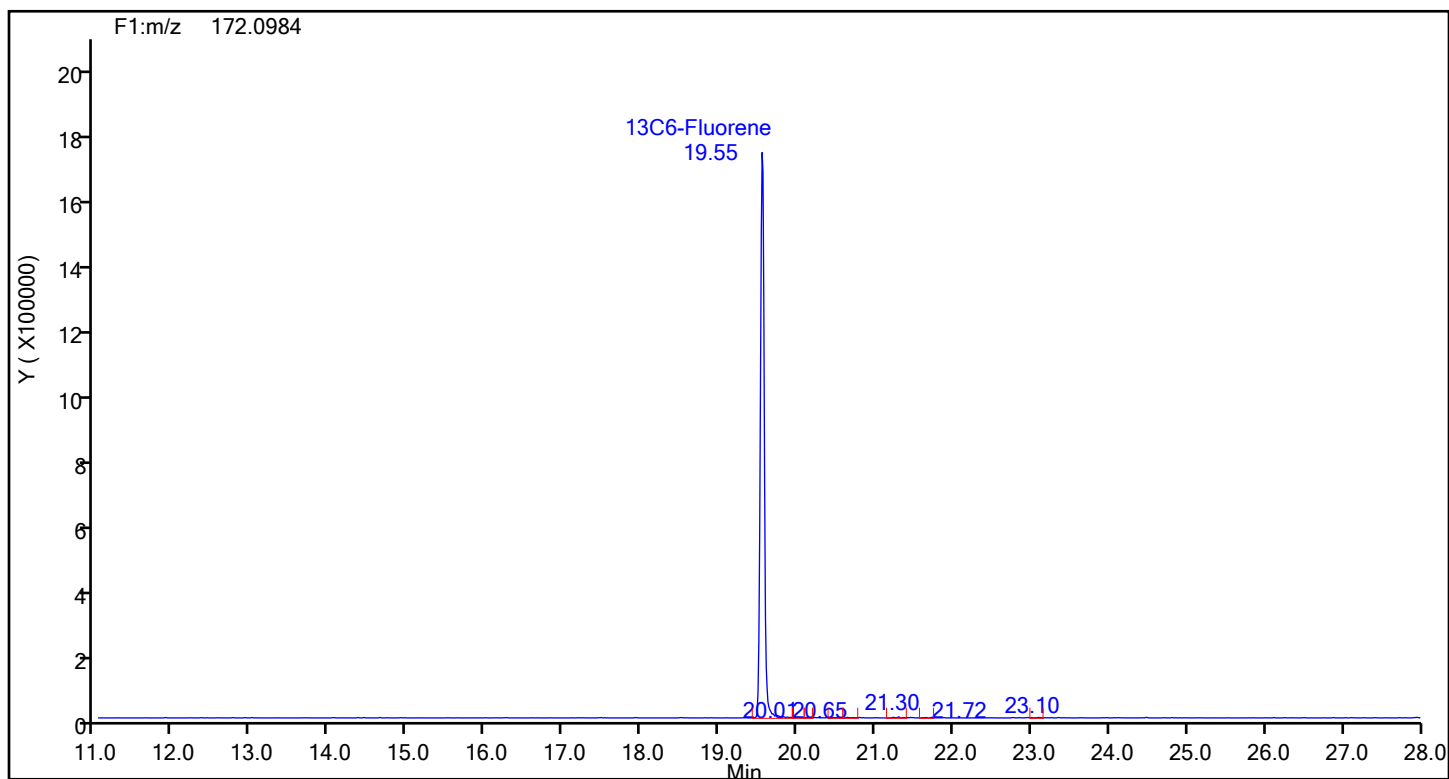
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



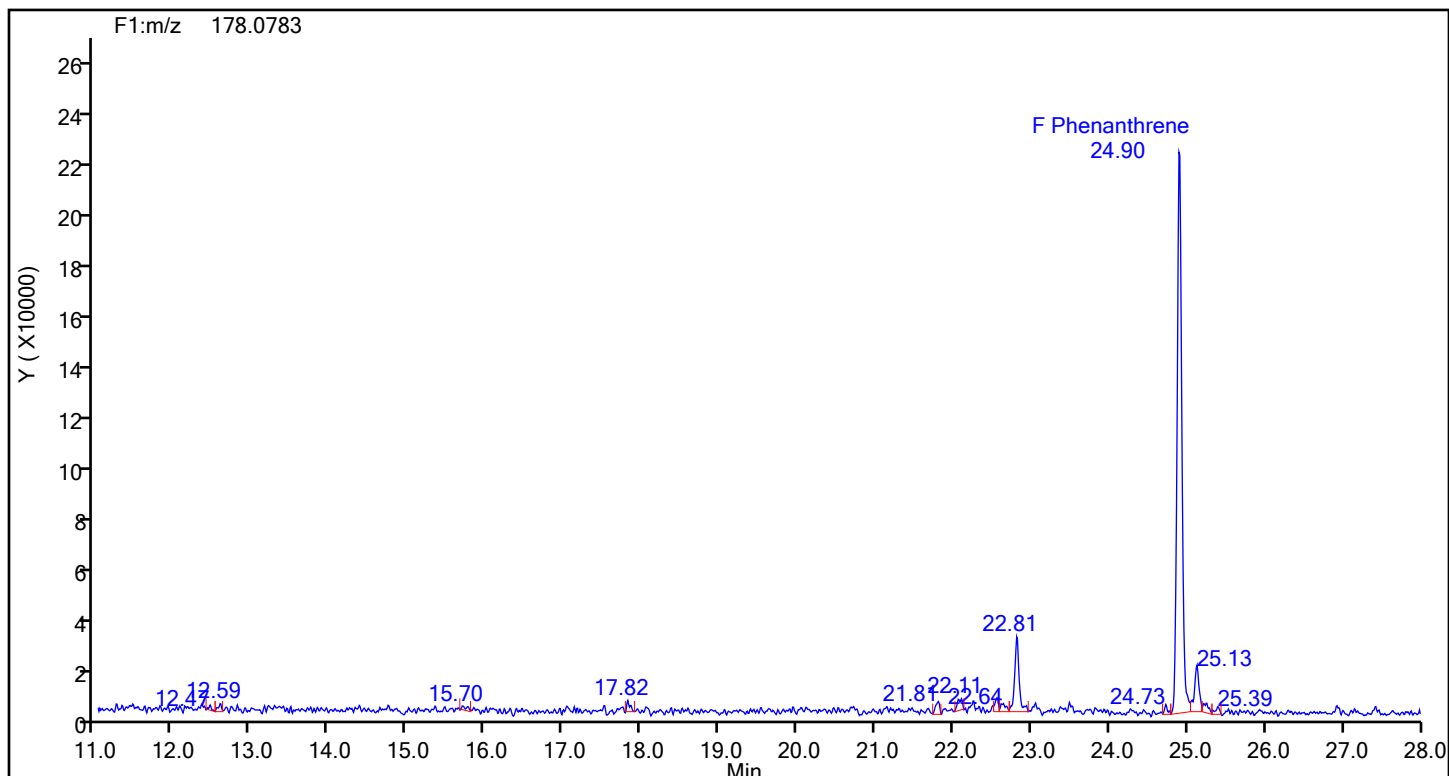
## Fluorene Standards



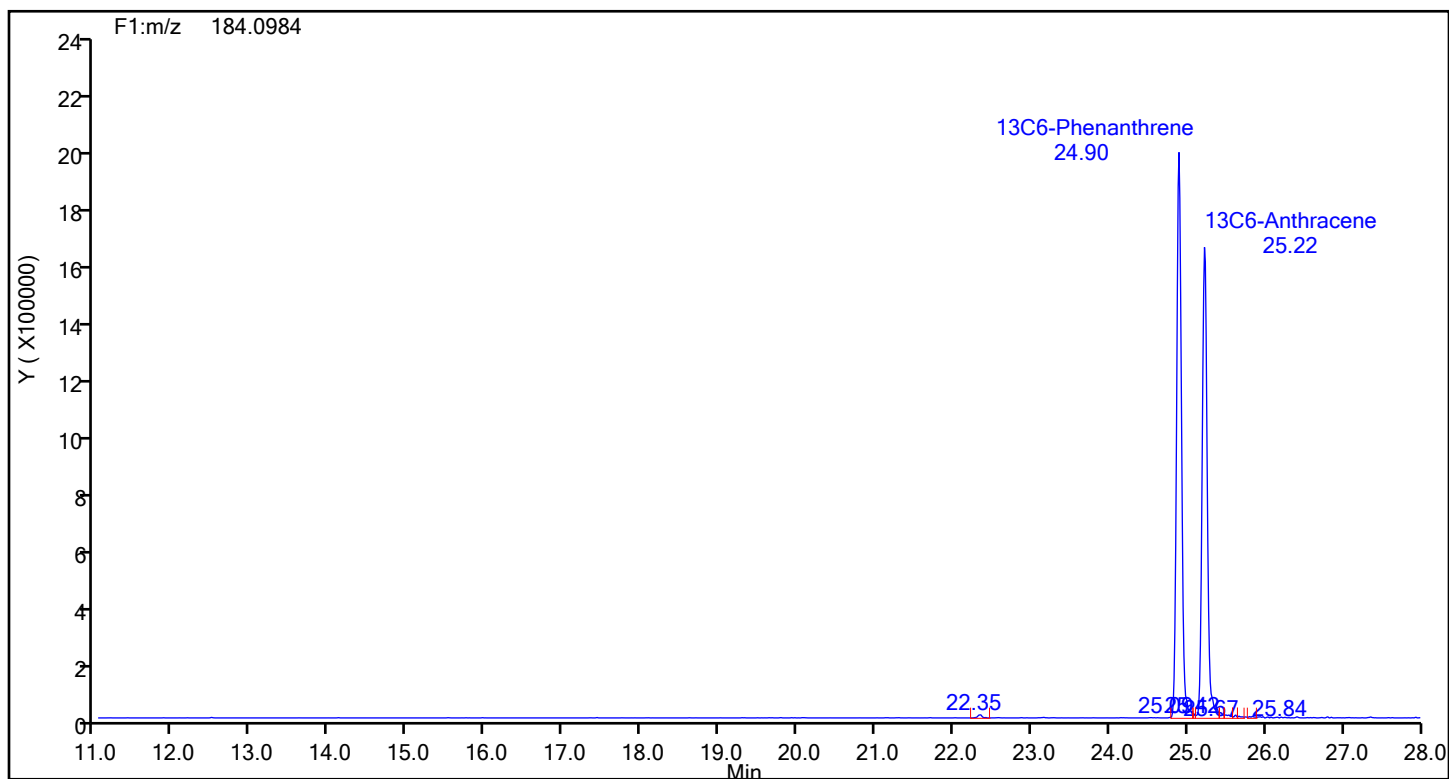
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Phenanthrene



## Phenanthrene Standards



## Eurofins Knoxville

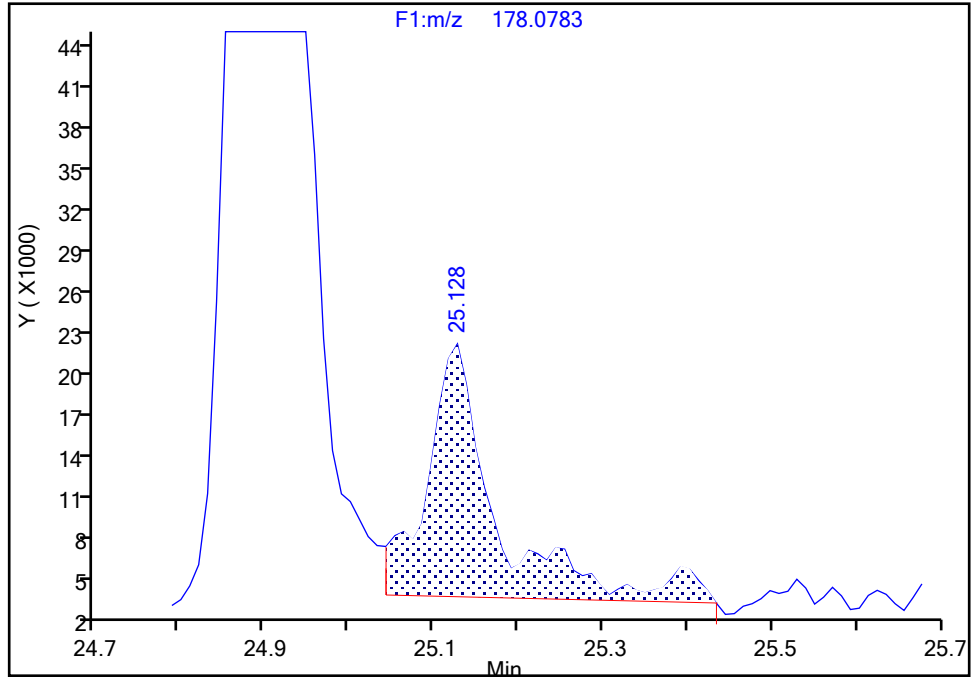
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-14-D Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

## Anthracene, CAS: 120-12-7

Signal: 1

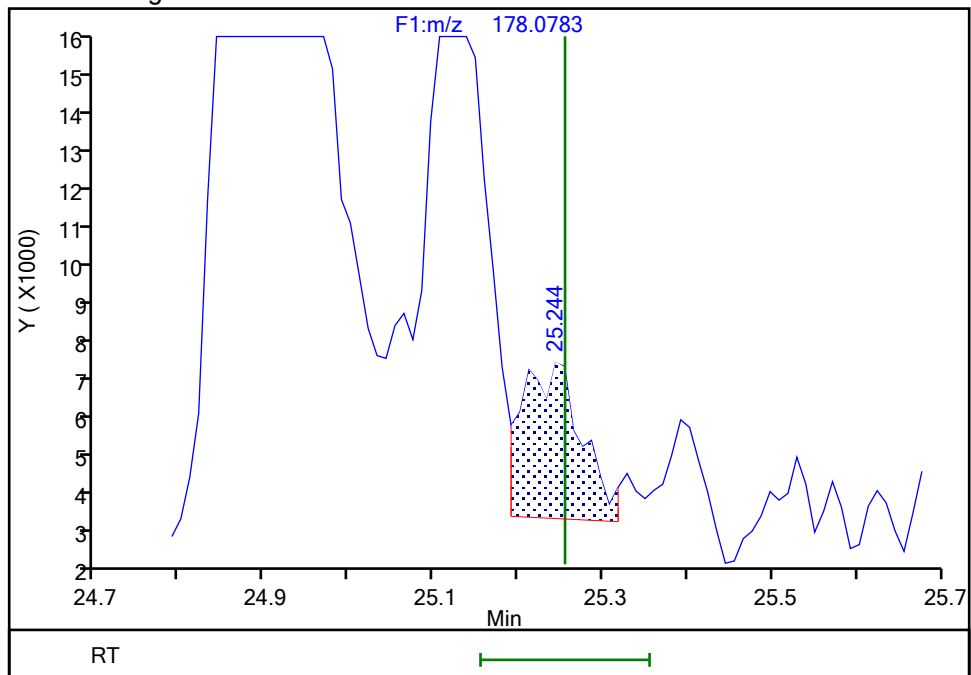
RT: 25.13  
Area: 104328  
Amount: 1.026338  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.24  
Area: 18708  
Amount: 0.184042  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 13:23:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d

Injection Date: 17-Jul-2024 02:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER

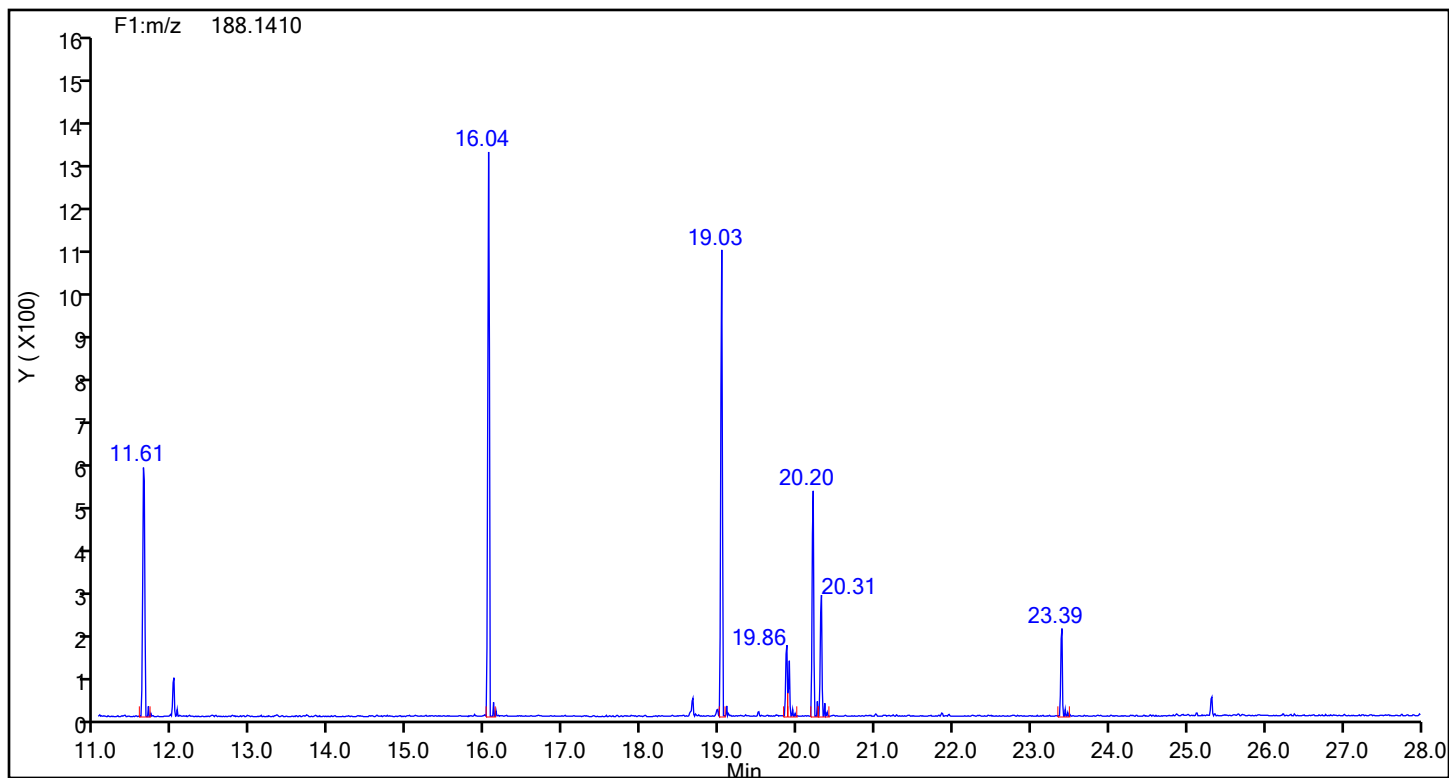
Worklist#: 88831

Sample Line#: 6

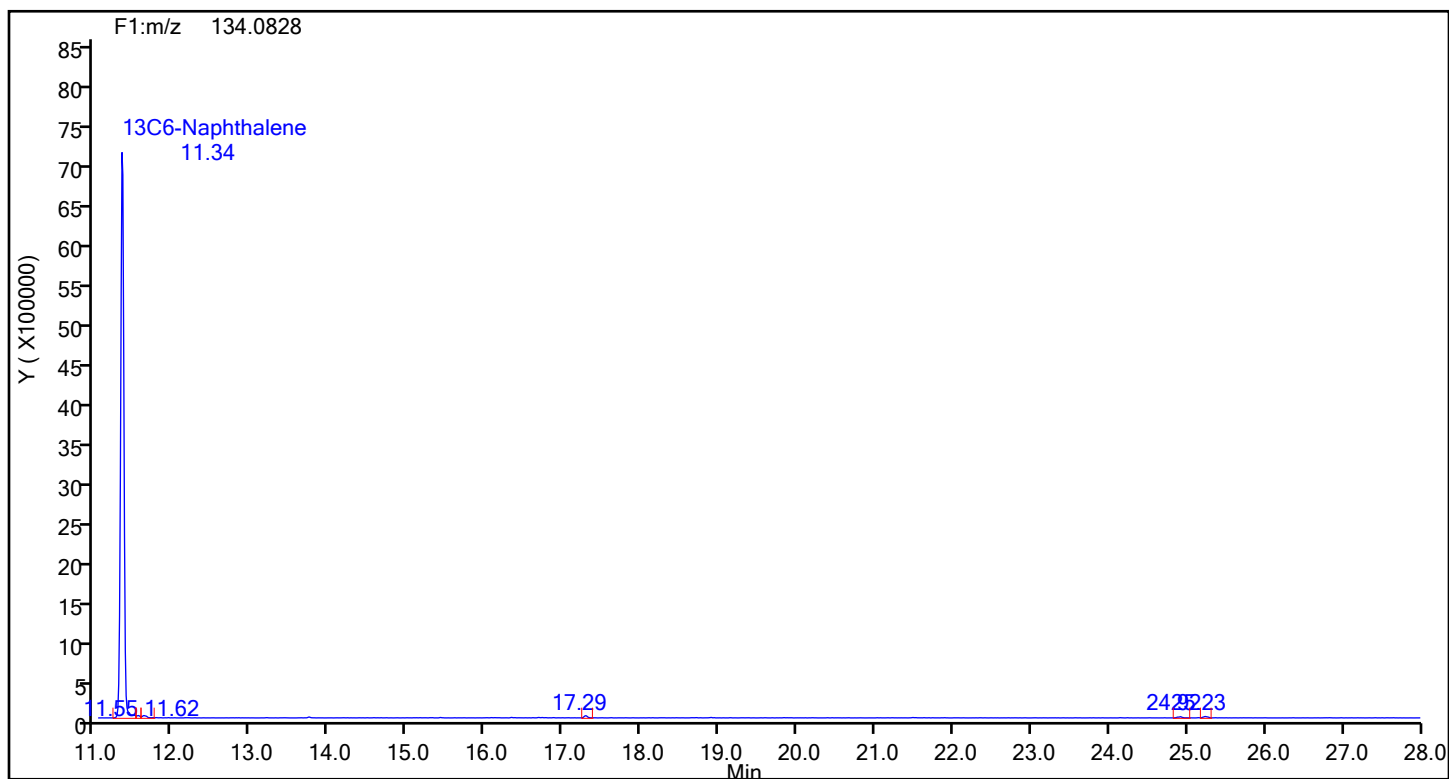
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Anthracin-d10



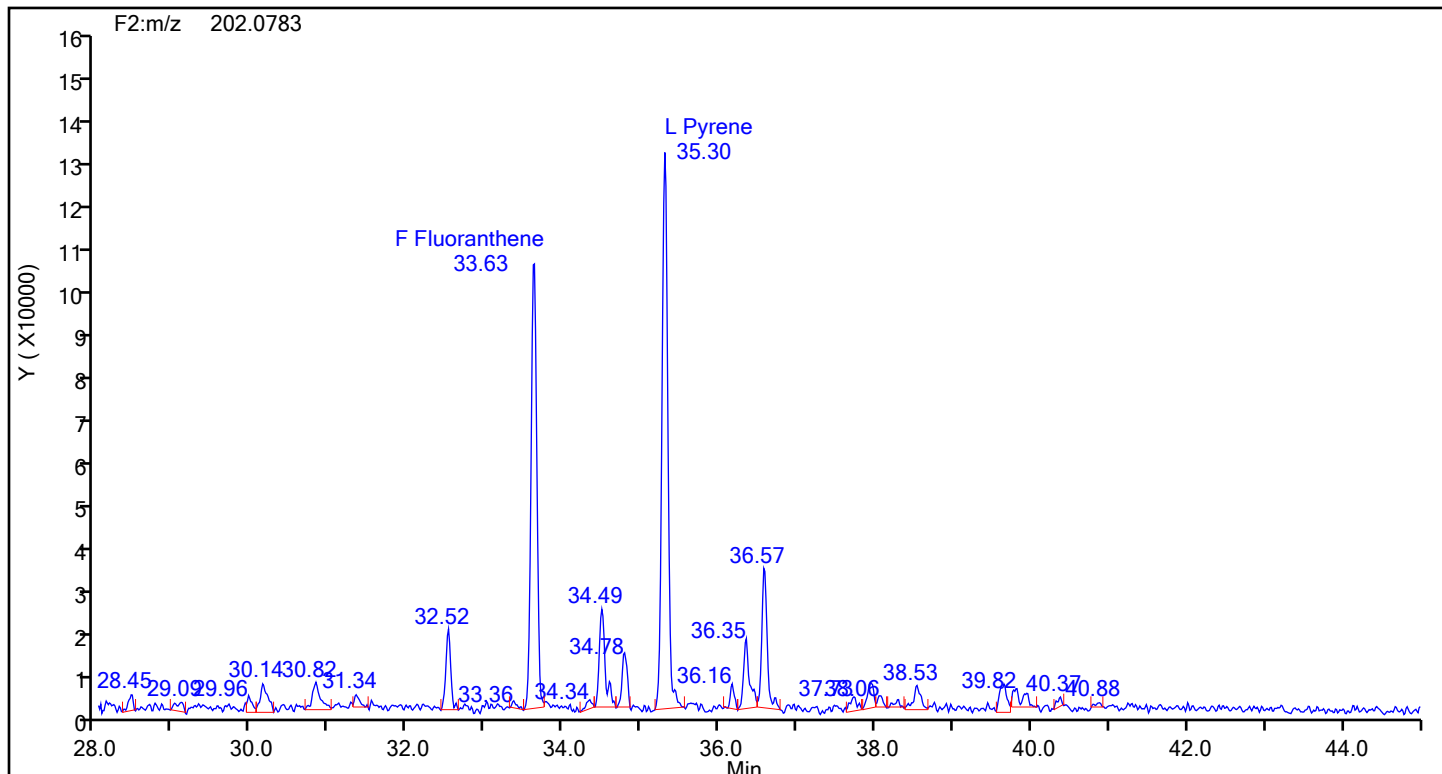
### Anthracin-d10 Standards



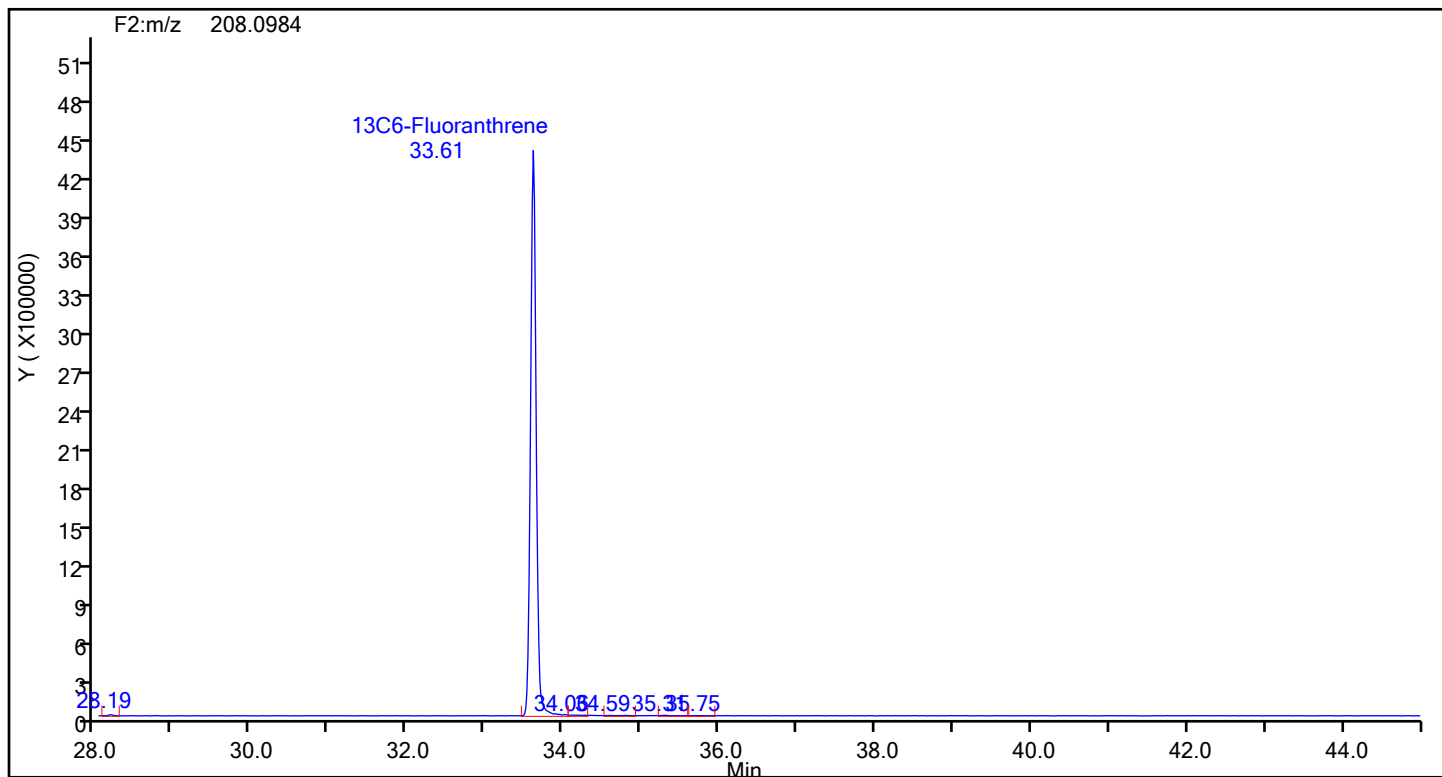
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluoranthene



## Fluoranthene Standards

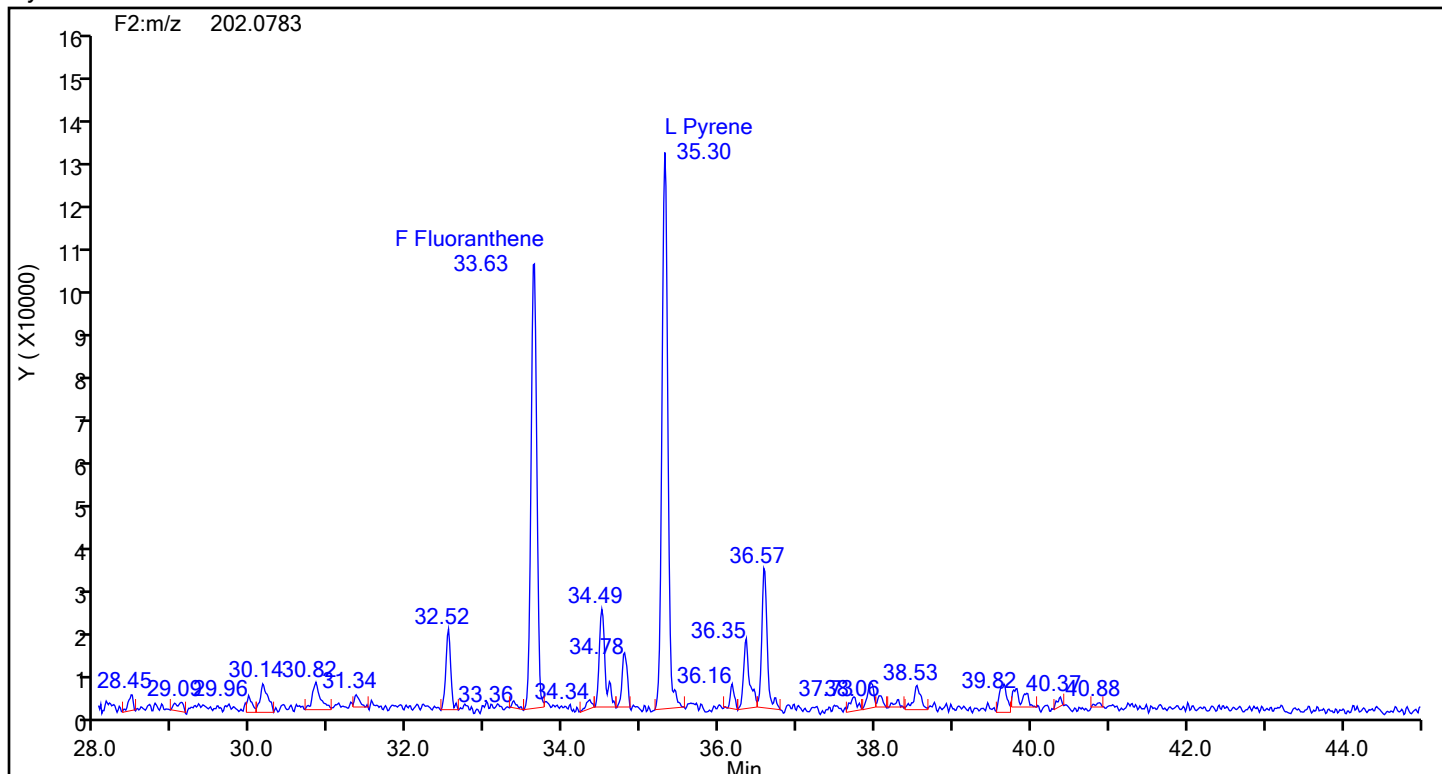




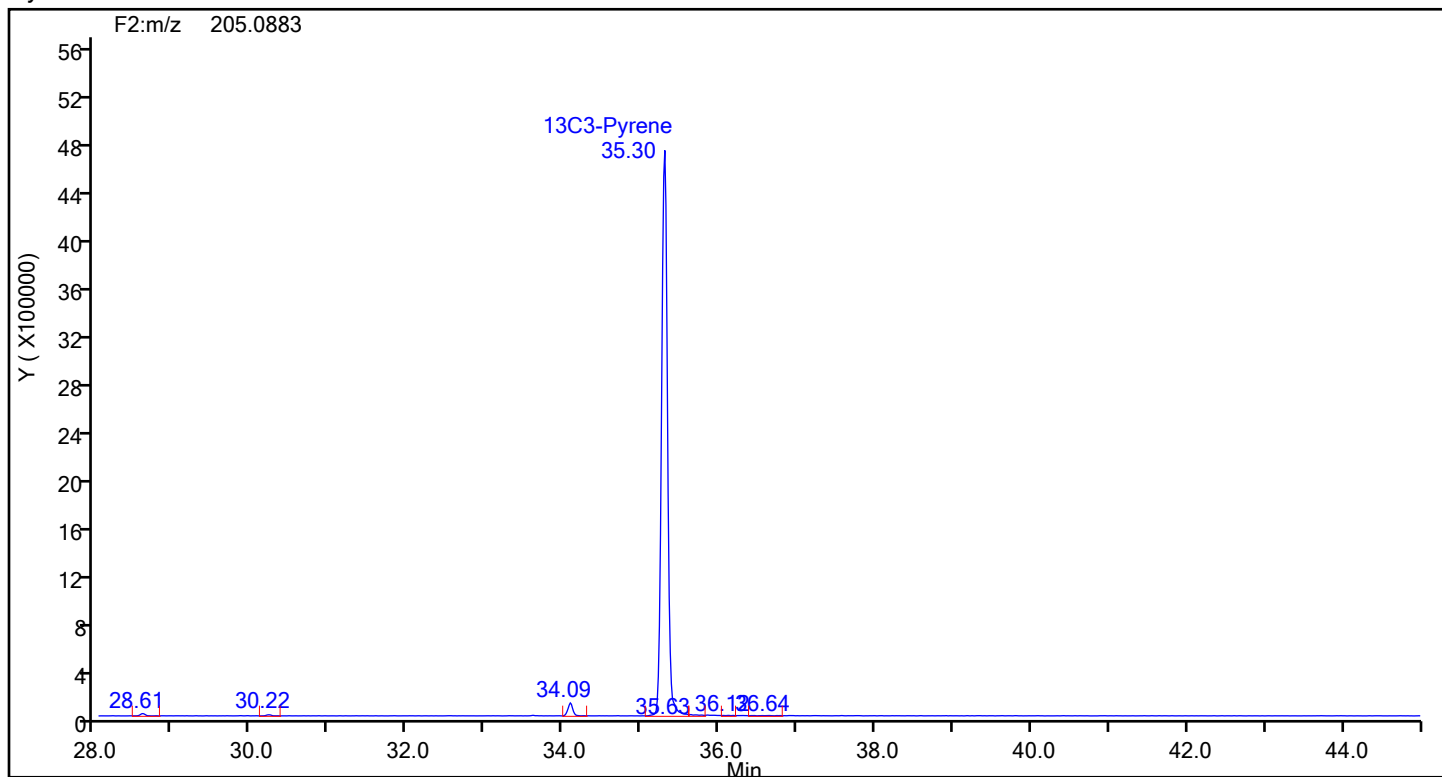
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



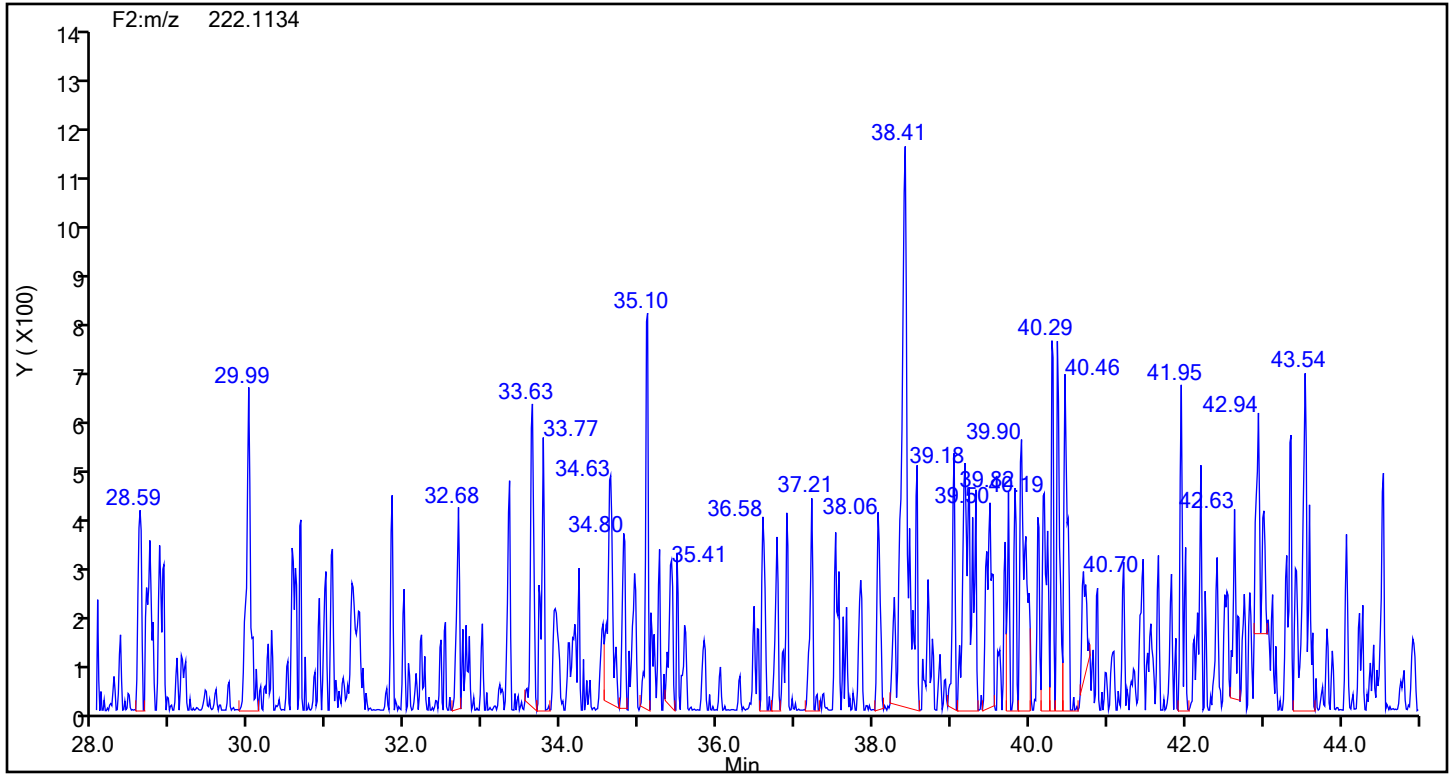
## Pyrene Standards



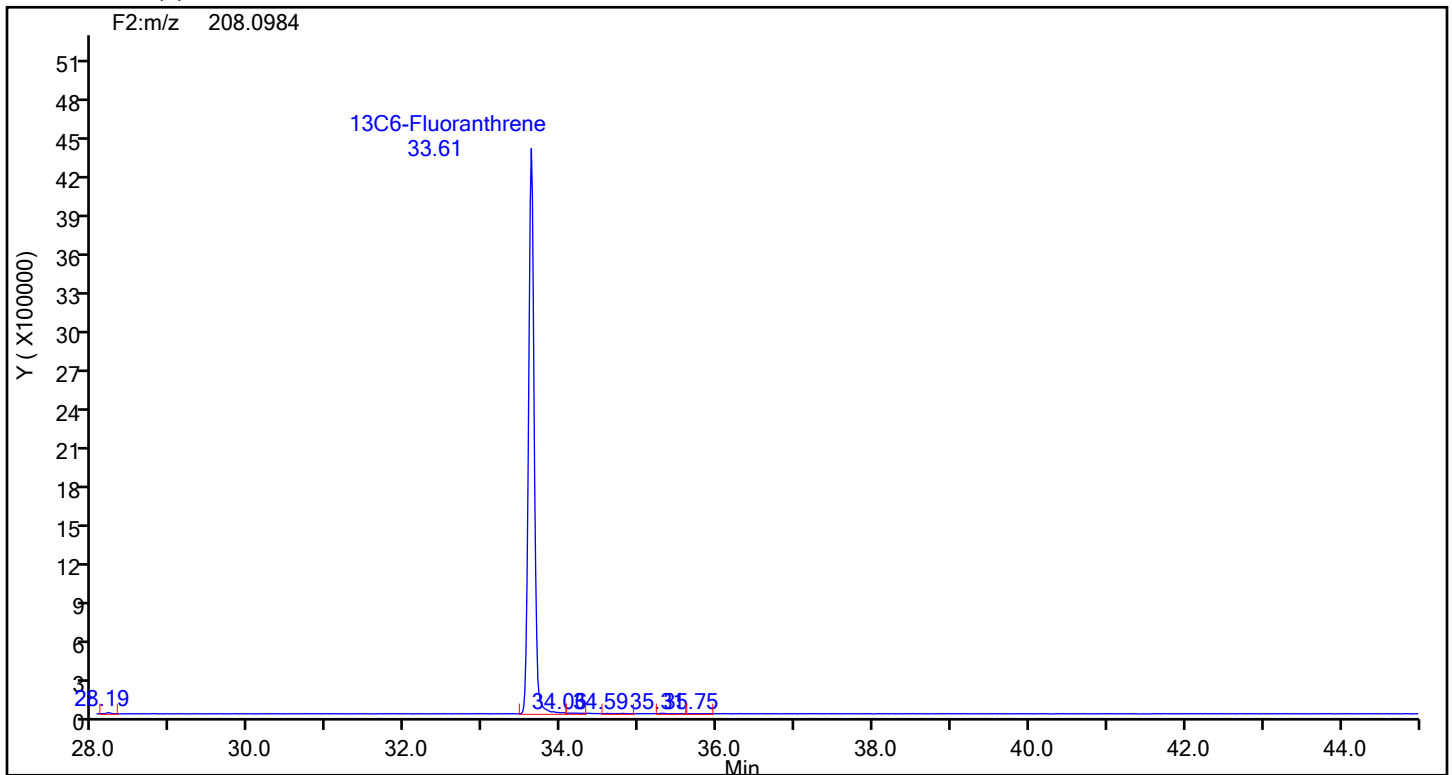
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



## 13C6-Benzo(c)fluorene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d

Injection Date: 17-Jul-2024 02:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER

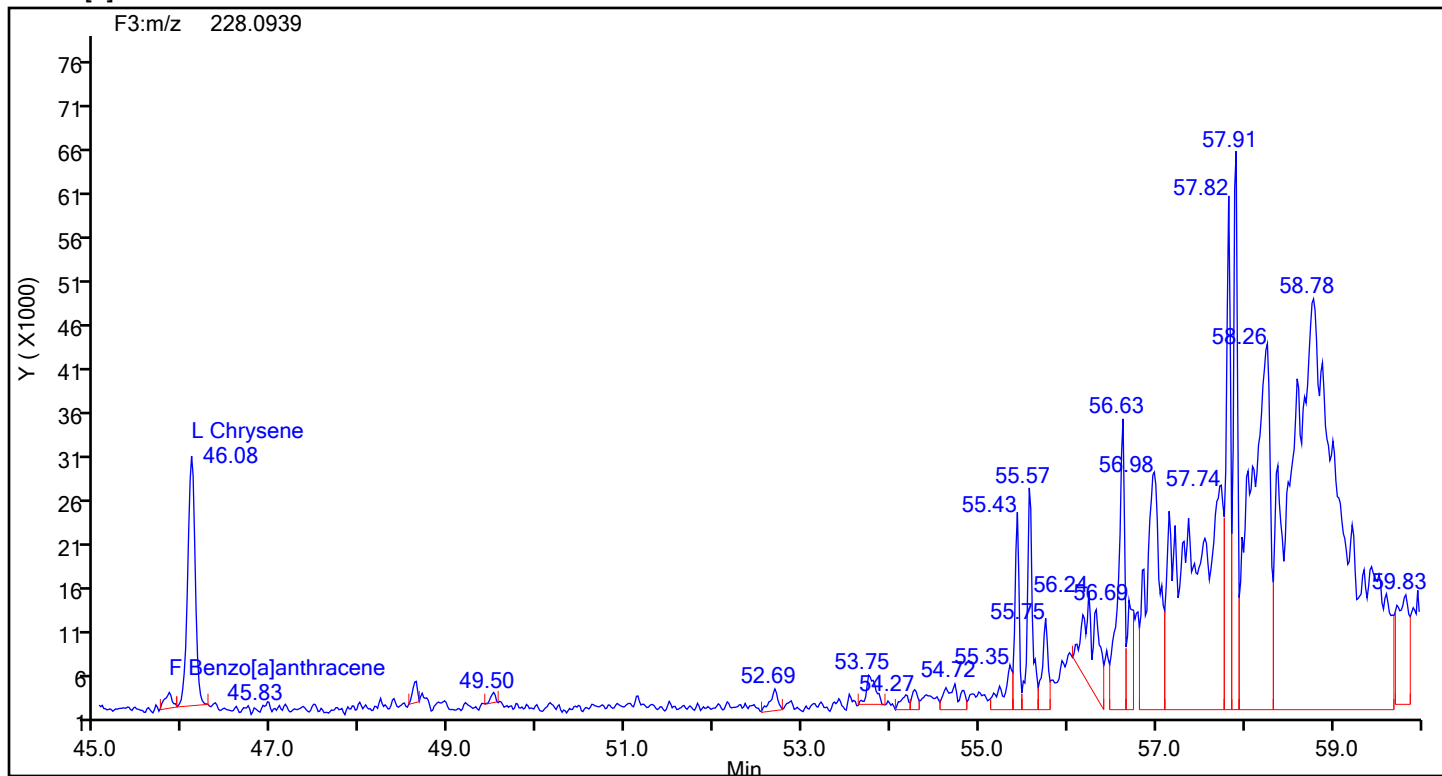
Worklist#: 88831

Sample Line#: 6

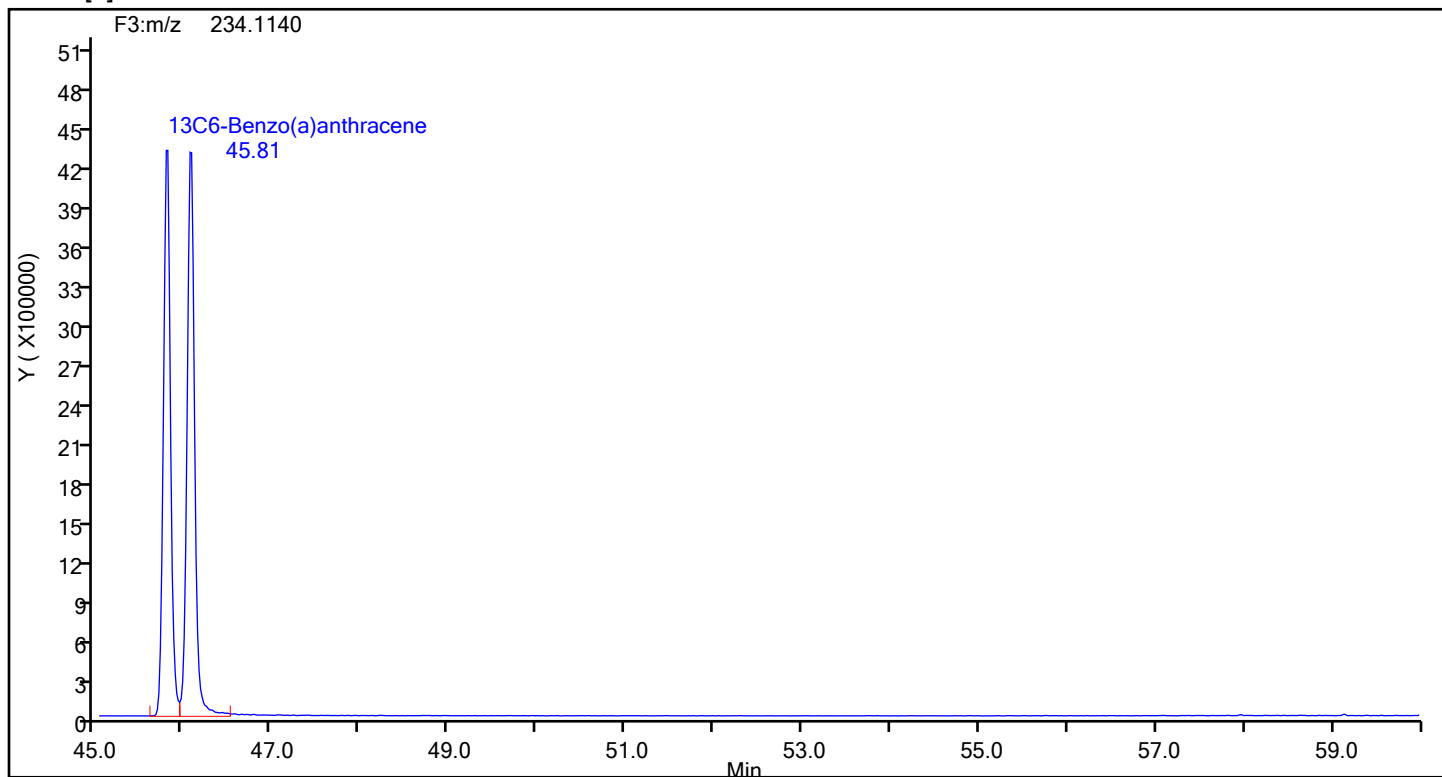
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[a]anthracene



## Benzo[a]anthracene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d

Injection Date: 17-Jul-2024 02:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER

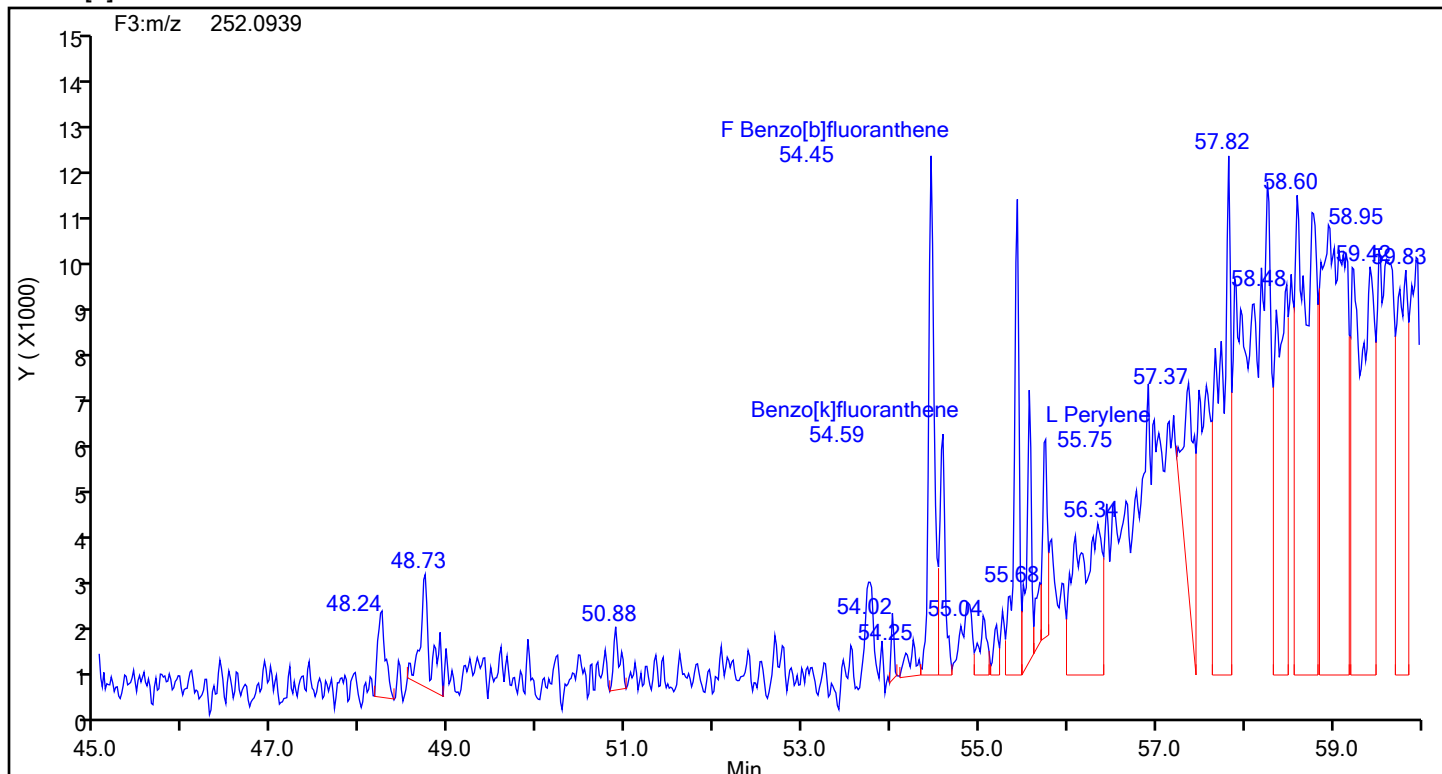
Worklist#: 88831

Sample Line#: 6

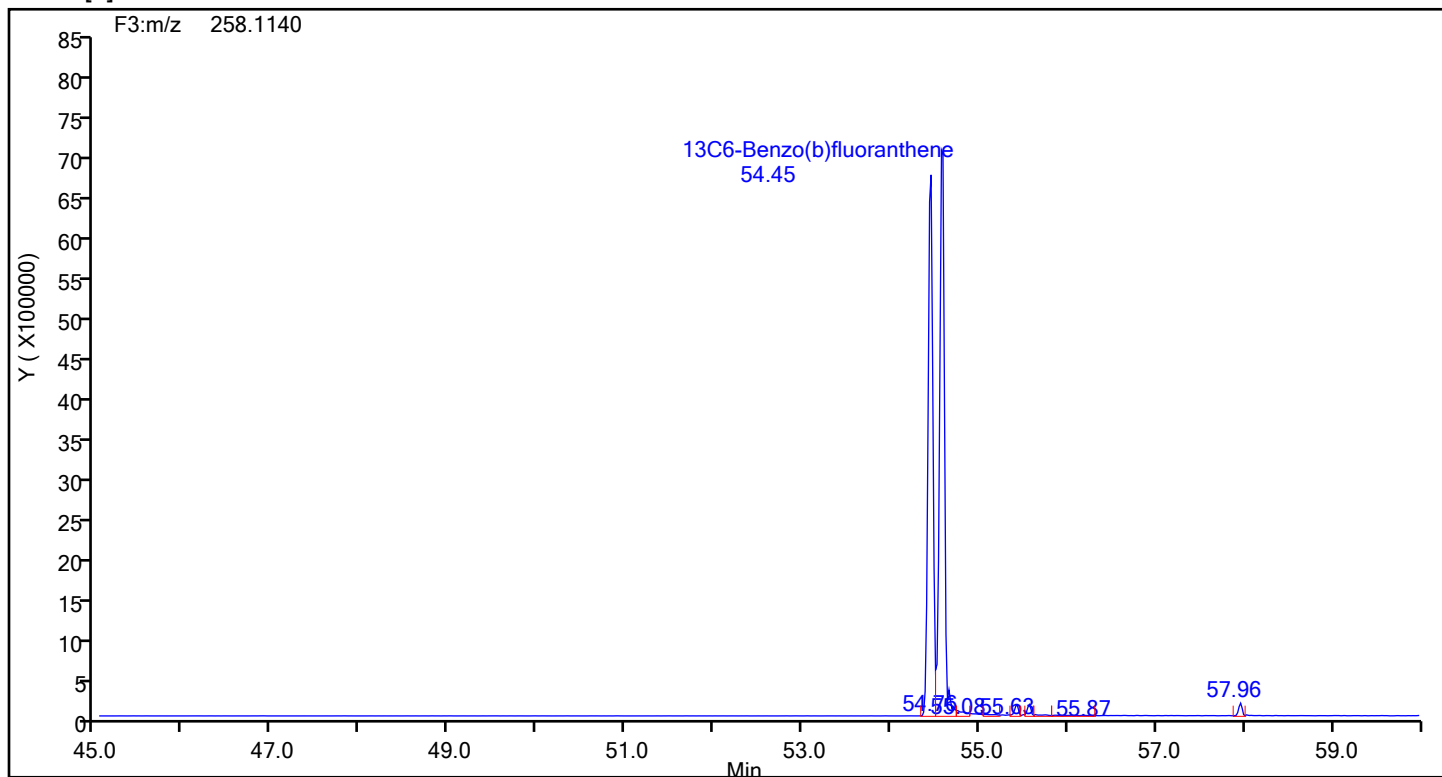
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards



## Eurofins Knoxville

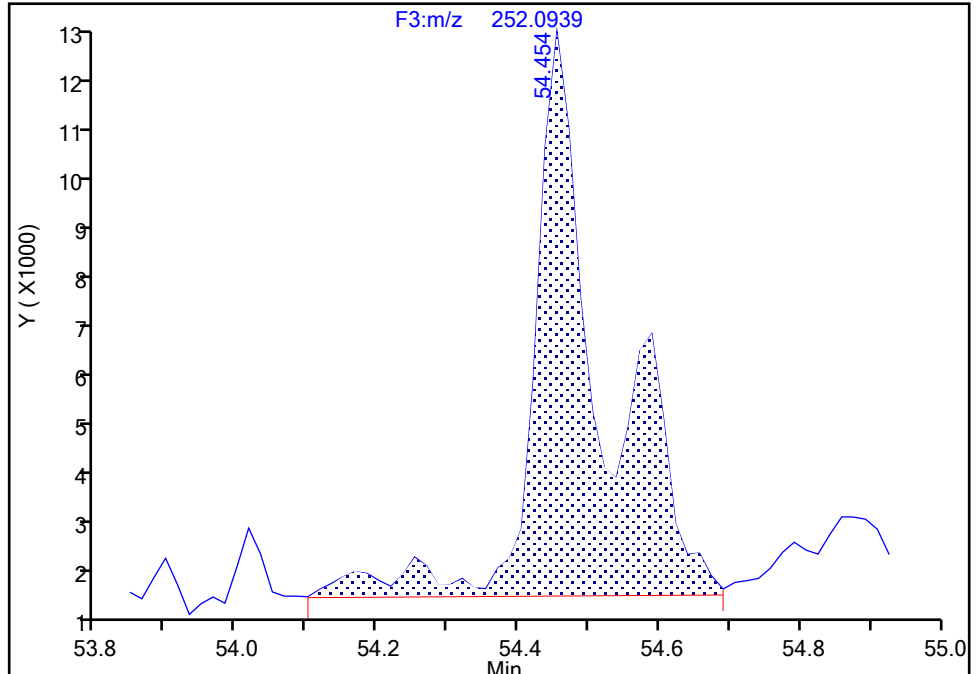
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-14-D Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

**Benzo[b]fluoranthene, CAS: 205-99-2**

Signal: 1

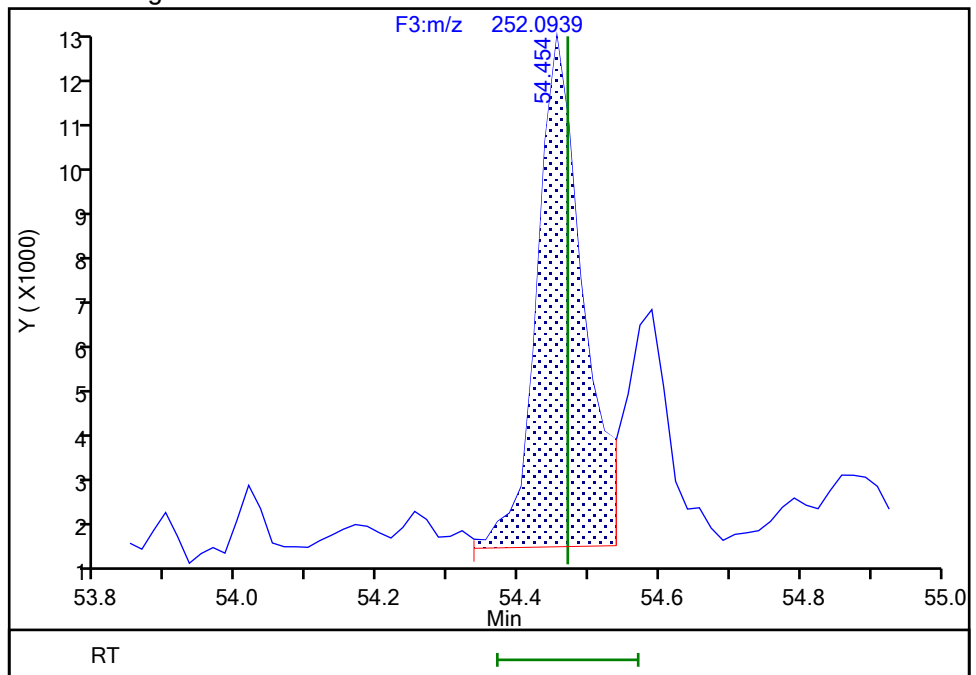
RT: 54.45  
Area: 72565  
Amount: 0.252289  
Amount Units: pg/ul

## Processing Integration Results



RT: 54.45  
Area: 48445  
Amount: 0.168430  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 13:23:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

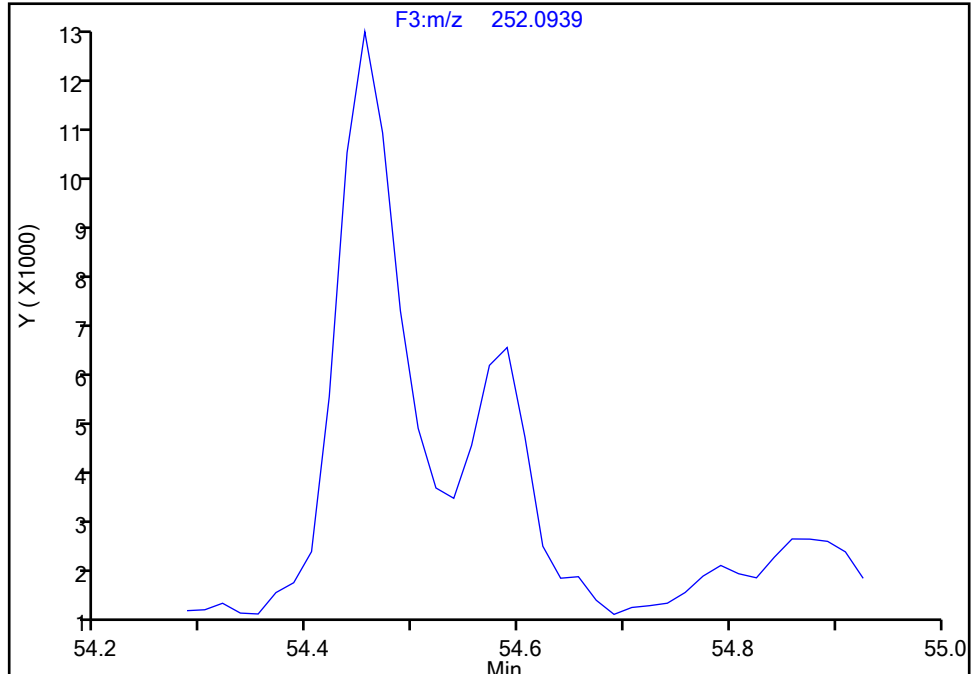
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-14-D Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

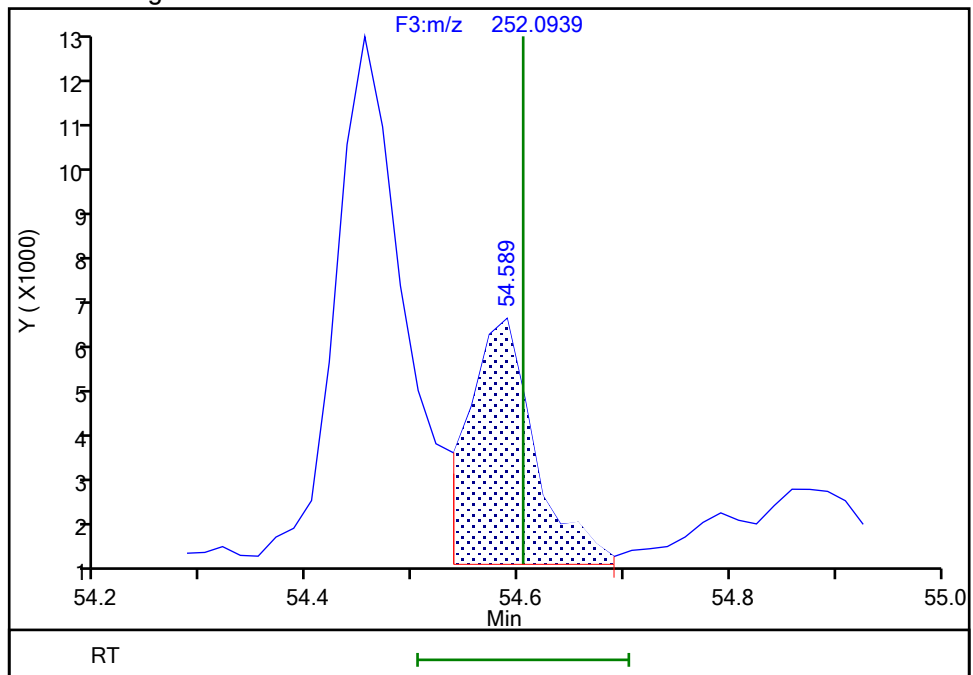
Not Detected  
Expected RT: 54.60

## Processing Integration Results



RT: 54.59  
Area: 21763  
Amount: 0.069452  
Amount Units: pg/ul

## Manual Integration Results



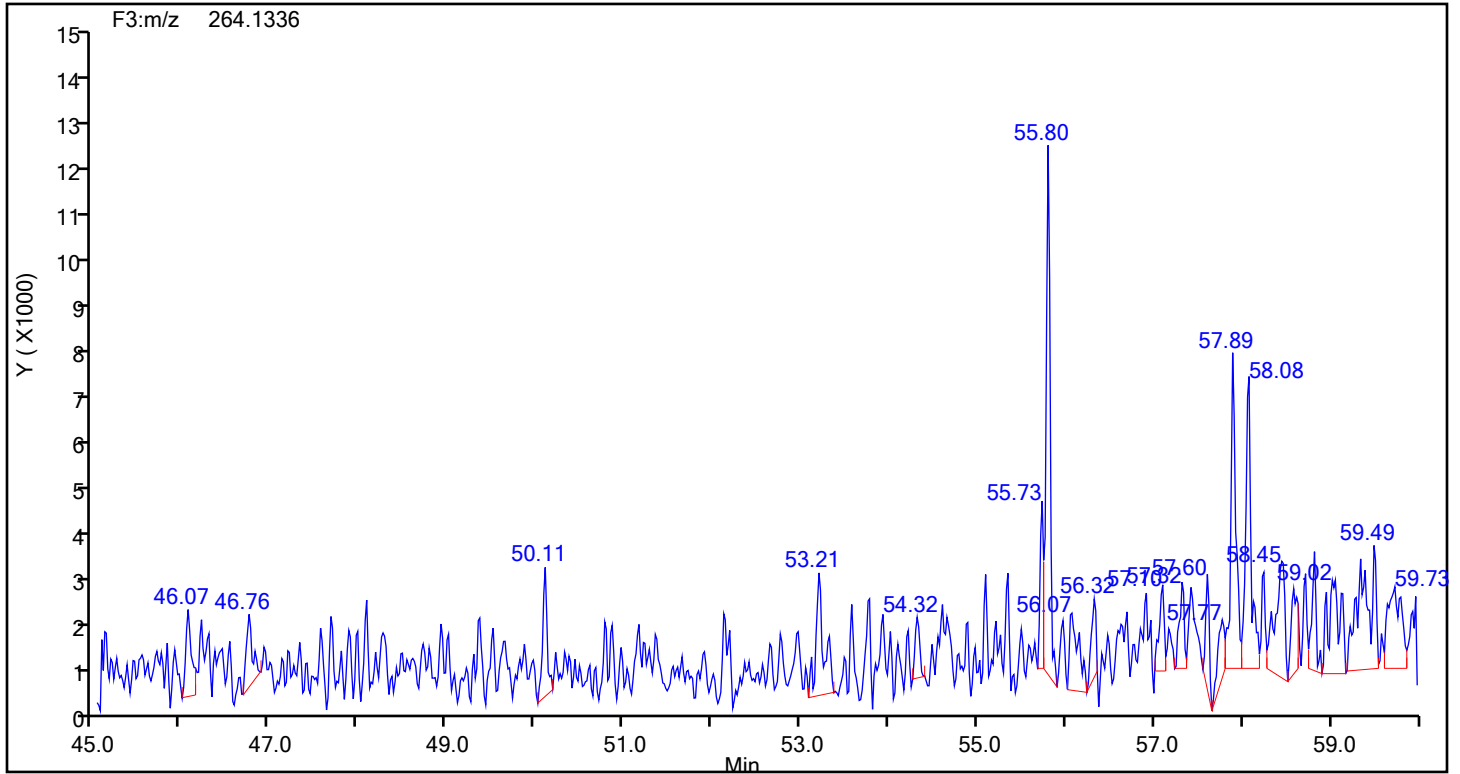
Reviewer: F9EE, 17-Jul-2024 13:24:09 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Incomplete Integration

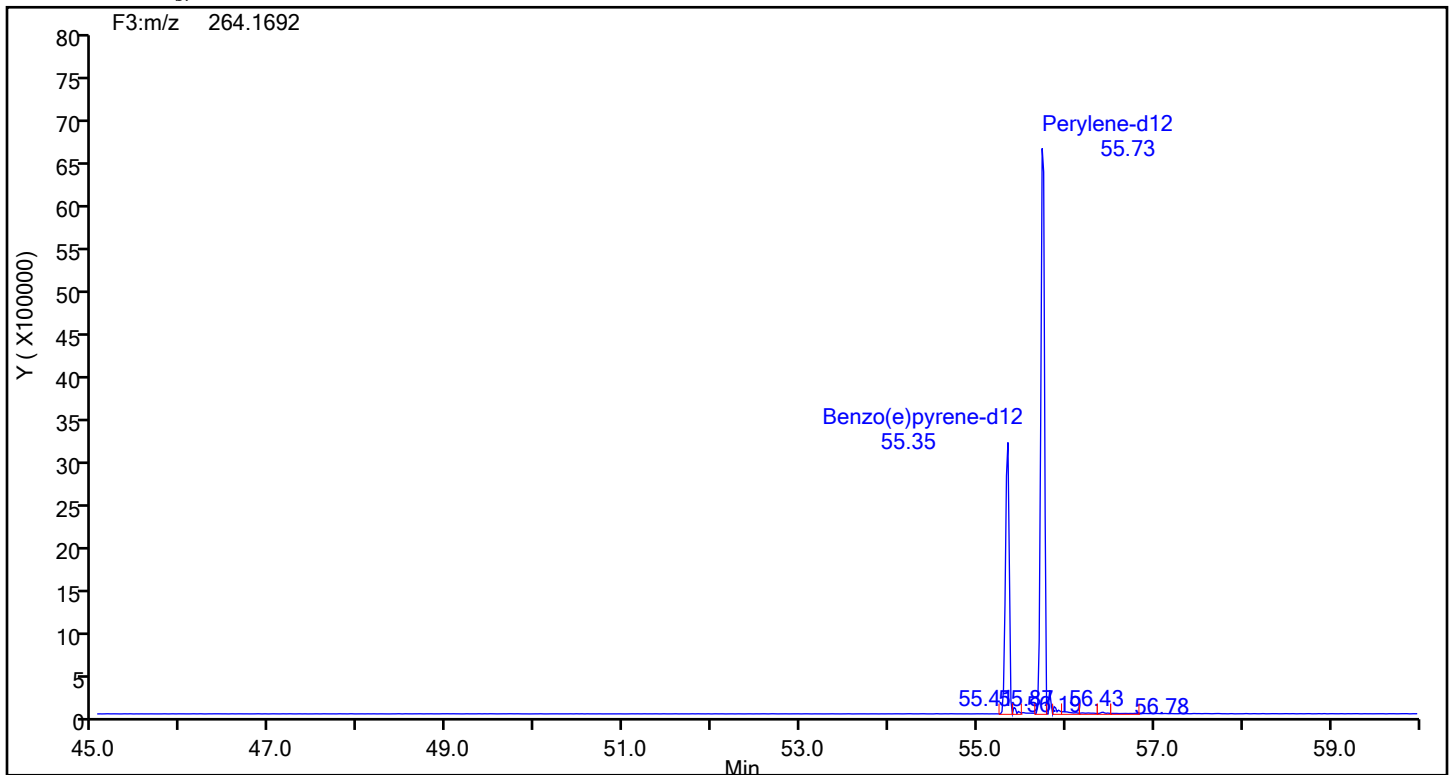
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



## 13C12-Benzo(j)fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d

Injection Date: 17-Jul-2024 02:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER

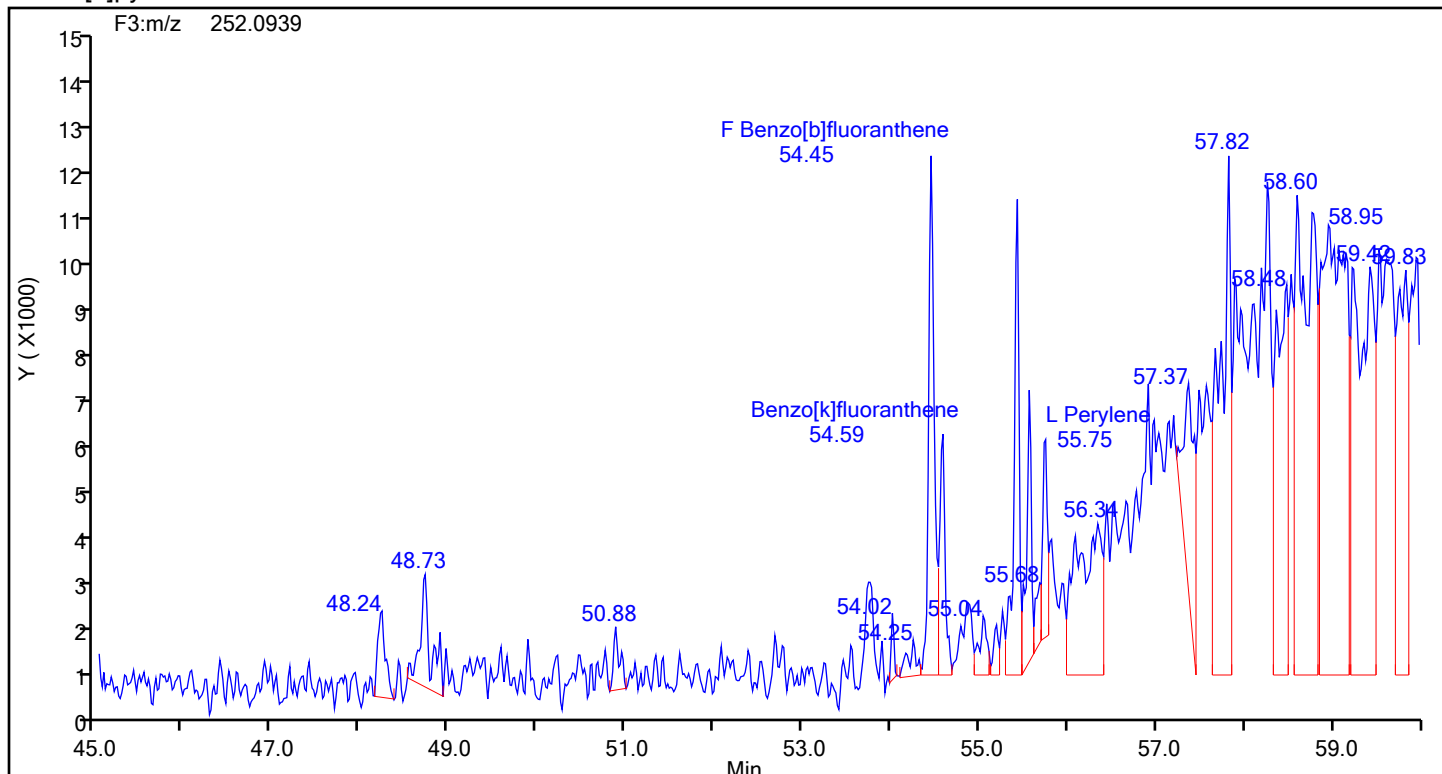
Worklist#: 88831

Sample Line#: 6

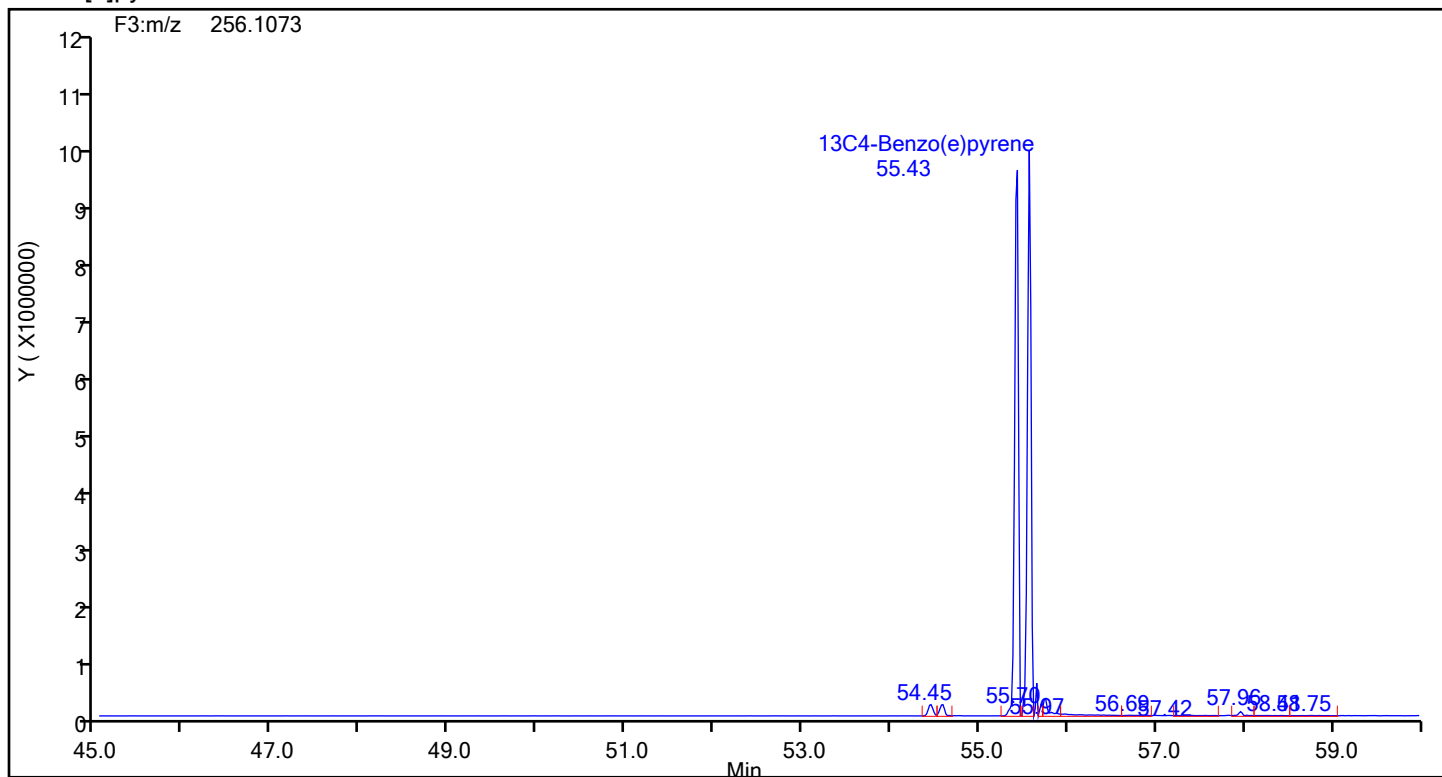
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[e]pyrene



## Benzo[e]pyrene Standards





## Eurofins Knoxville

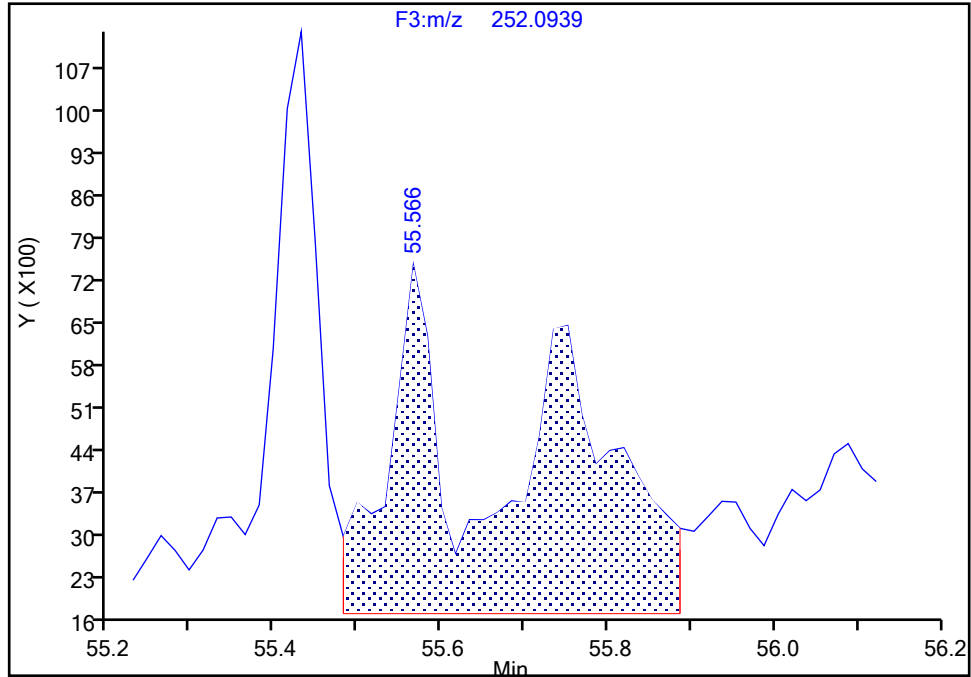
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-14-D Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

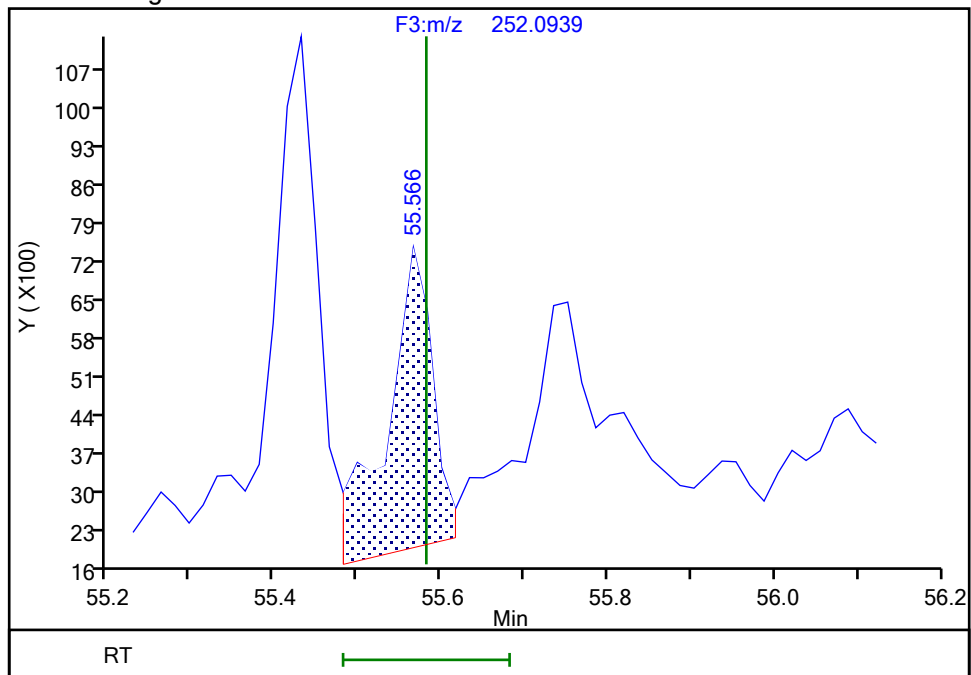
RT: 55.57  
Area: 62228  
Amount: 0.212265  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.57  
Area: 21642  
Amount: 0.073823  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 13:25:05 -04:00:00 (UTC)

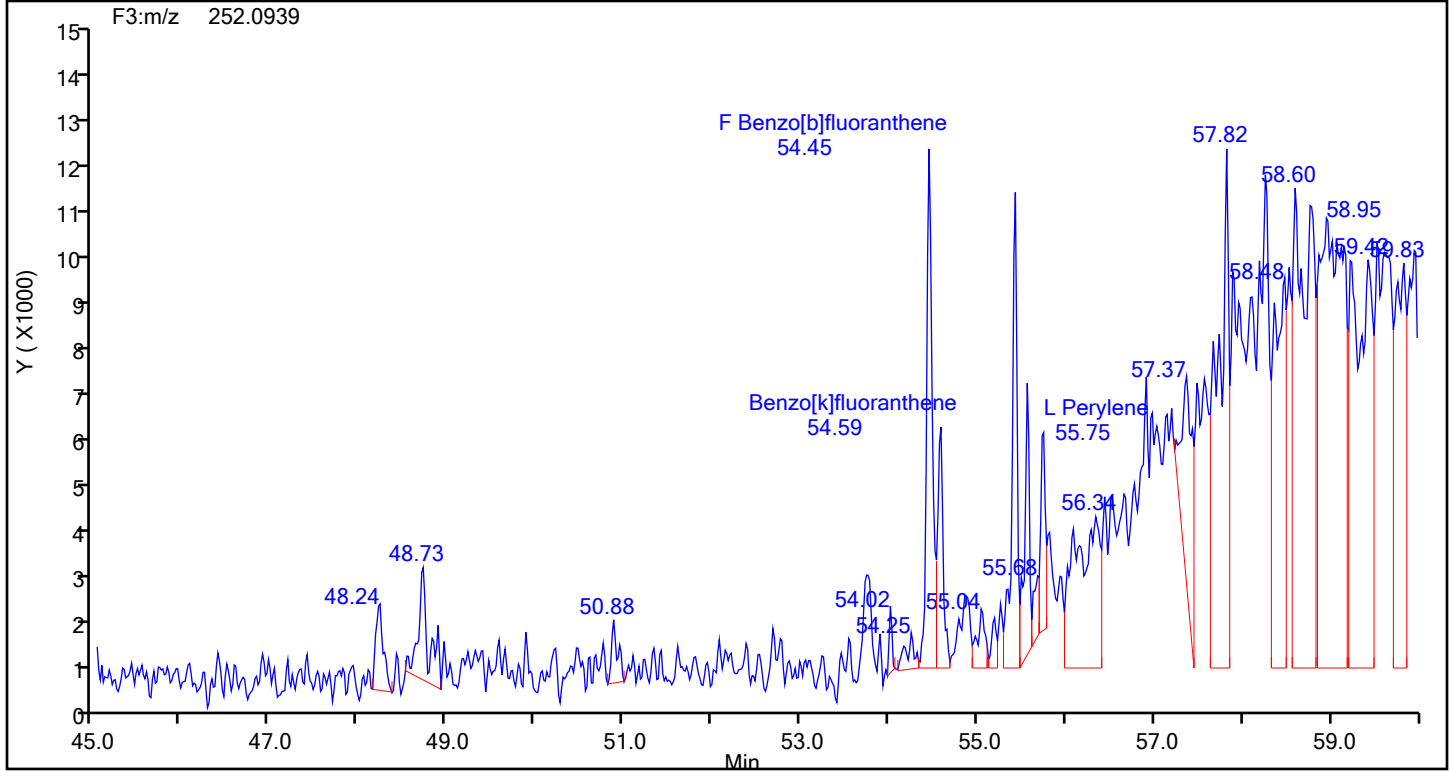
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

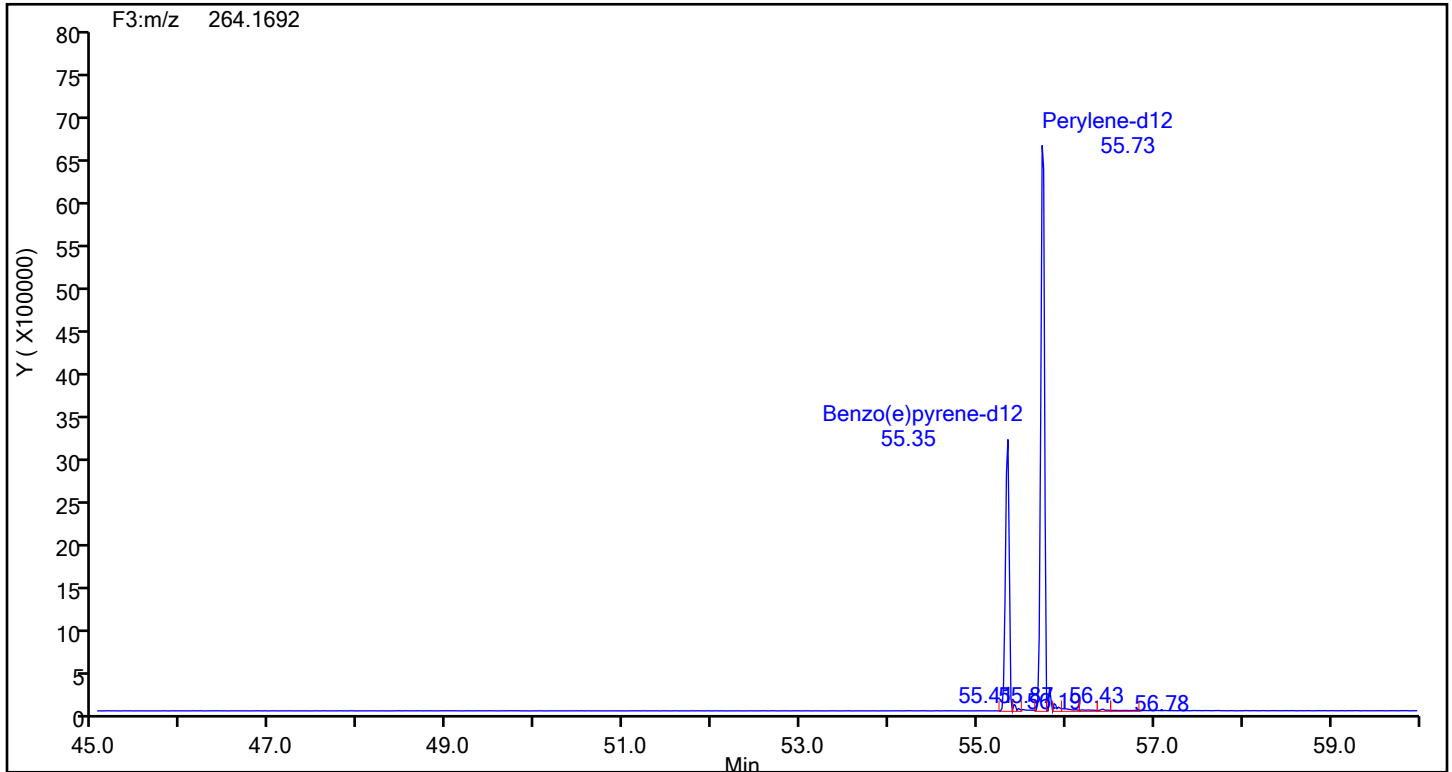
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Perylene



## Perylene Standards



## Eurofins Knoxville

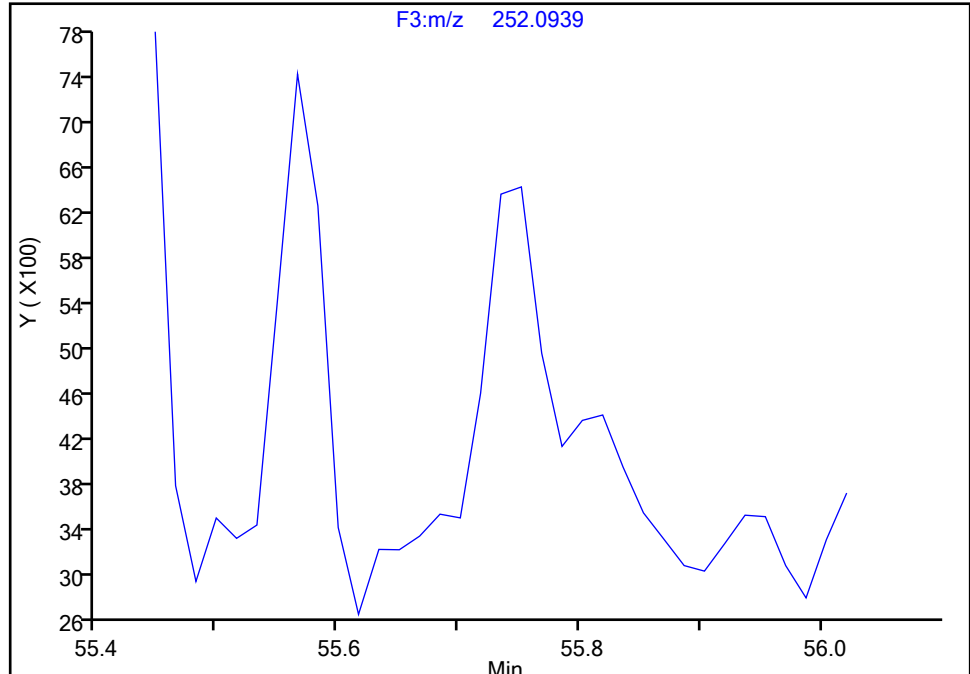
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-14-D Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

Perylene, CAS: 198-55-0

Signal: 1

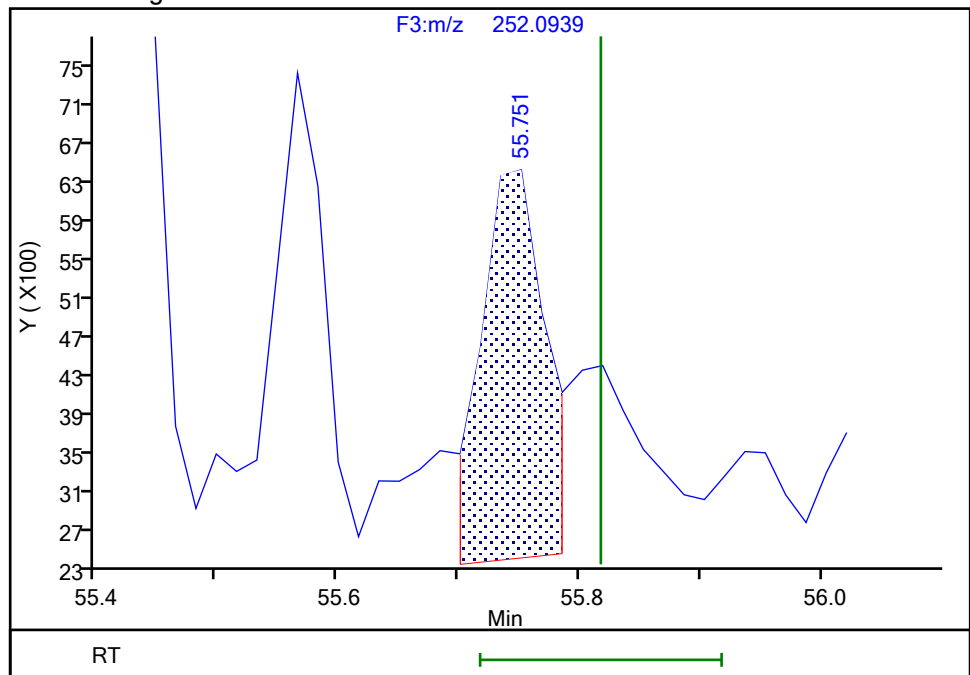
Not Detected  
Expected RT: 55.82

## Processing Integration Results



RT: 55.75  
Area: 15670  
Amount: 0.055204  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 13:24:47 -04:00:00 (UTC)

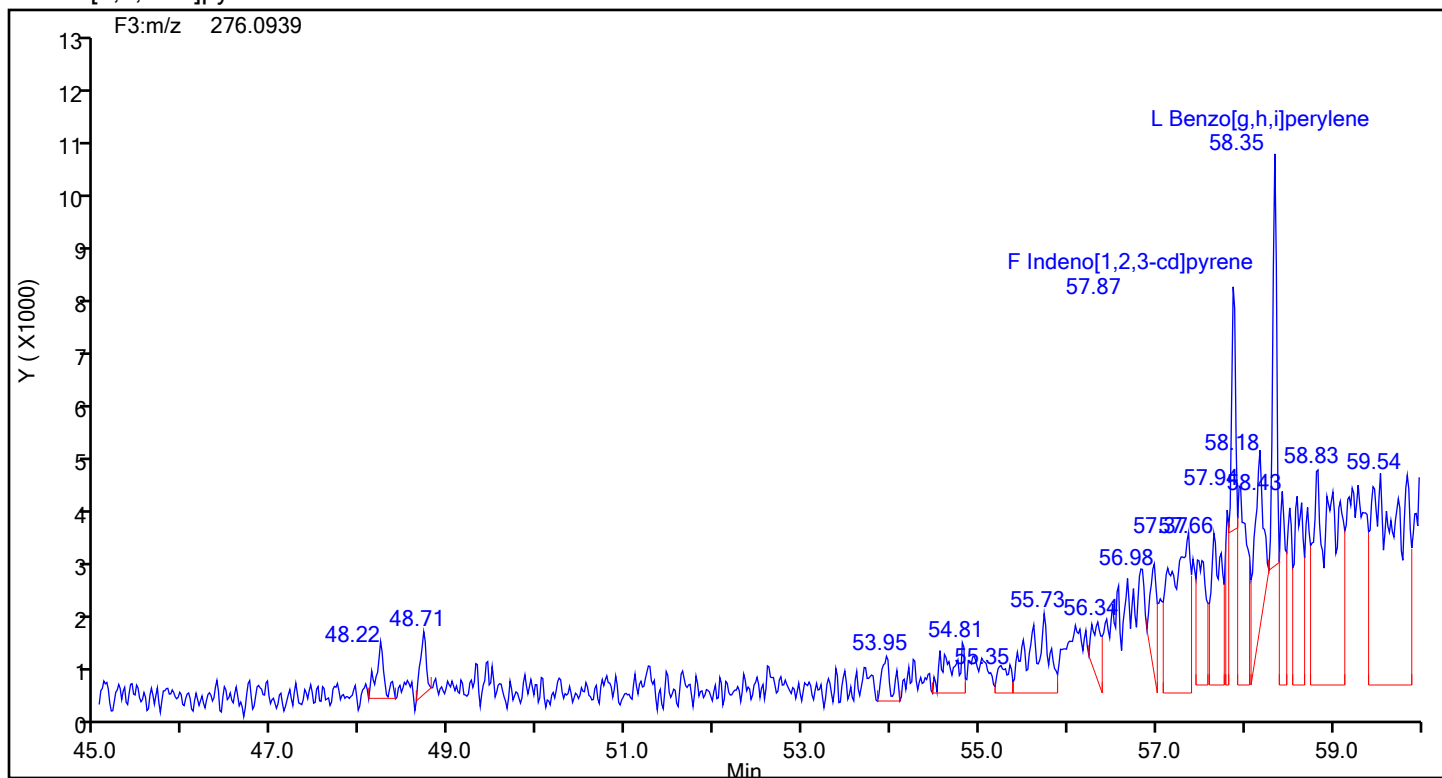
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

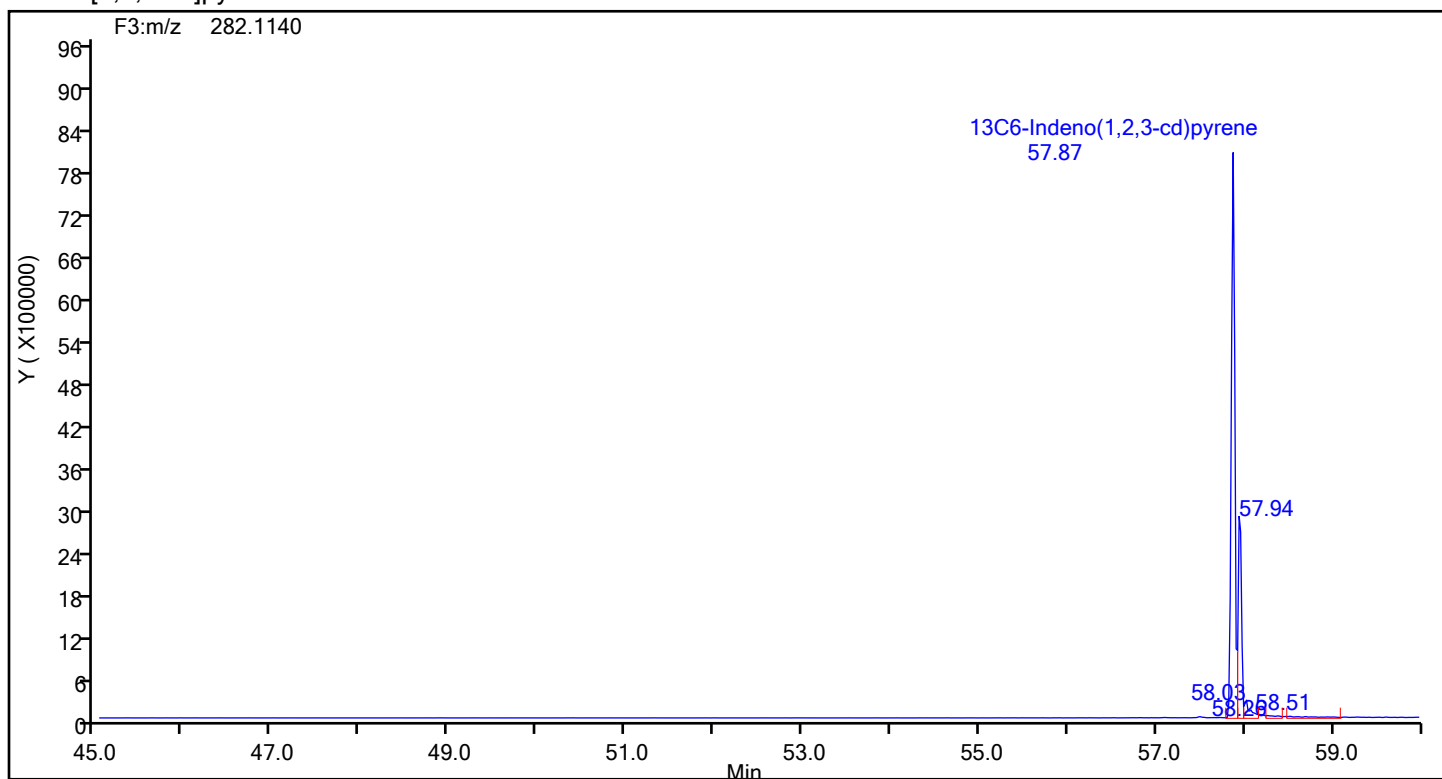
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

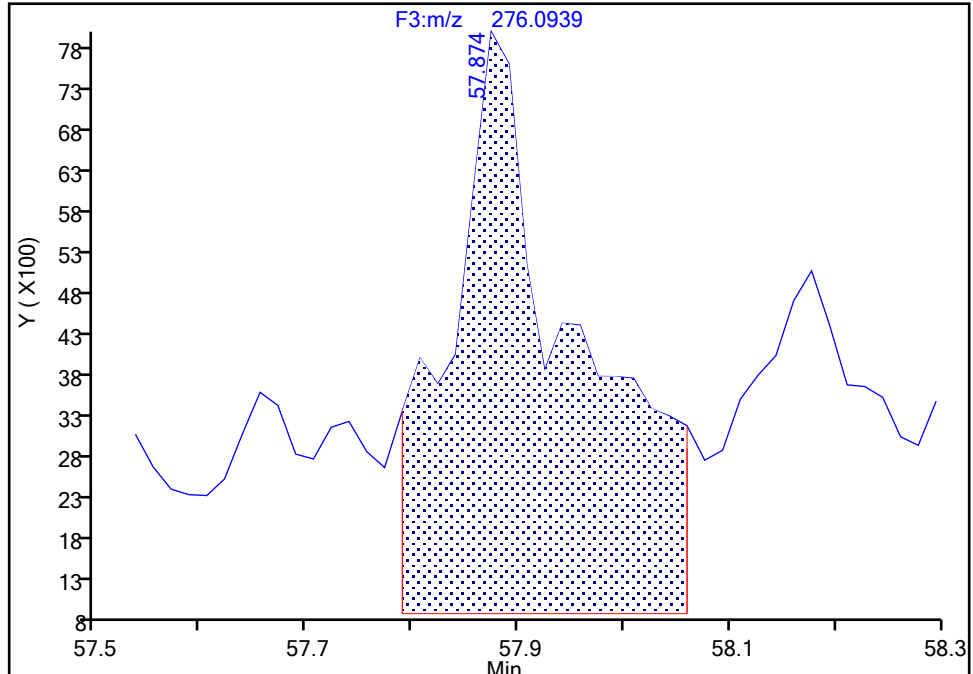
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-14-D Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

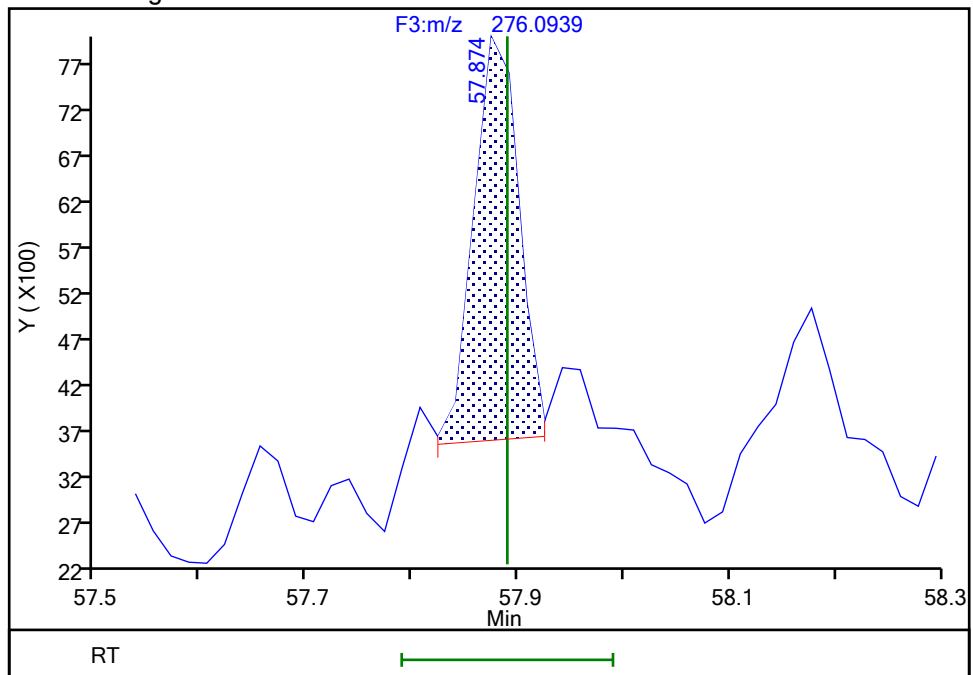
RT: 57.87  
Area: 58593  
Amount: 0.228841  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.87  
Area: 12905  
Amount: 0.050402  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 13:26:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

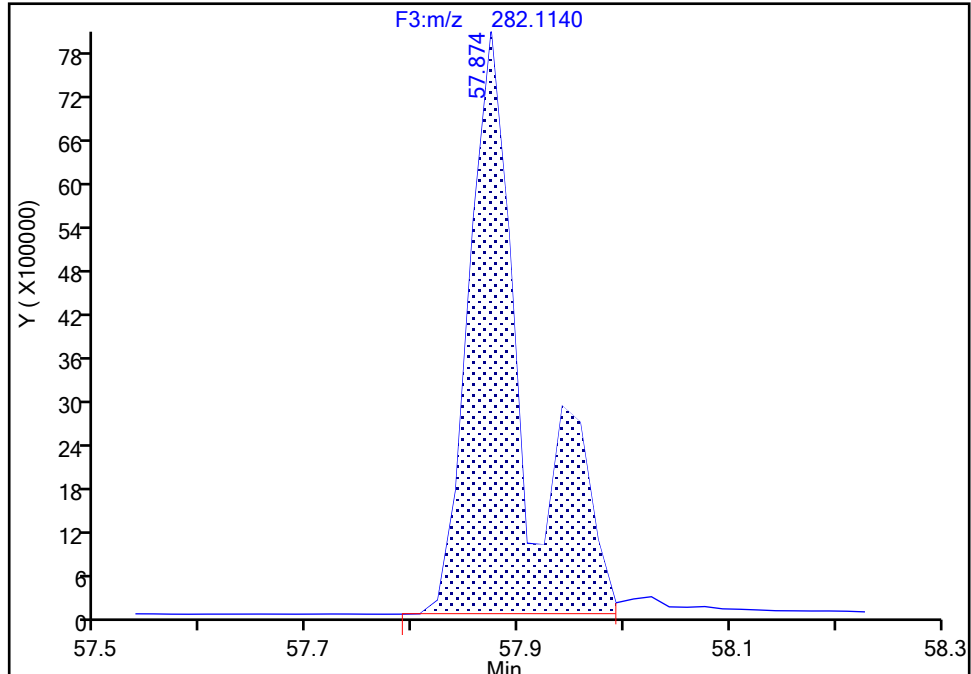
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-14-D Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2**

Signal: 1

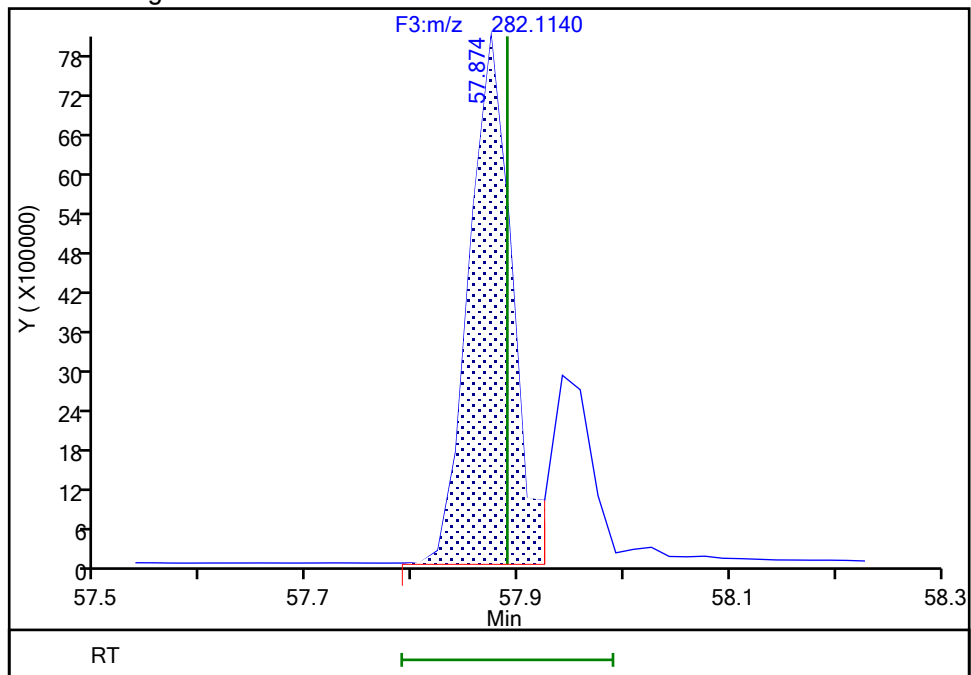
RT: 57.87  
Area: 29443489  
Amount: 152.5421  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.87  
Area: 22760469  
Amount: 117.9184  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 13:25:13 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d

Injection Date: 17-Jul-2024 02:24:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER

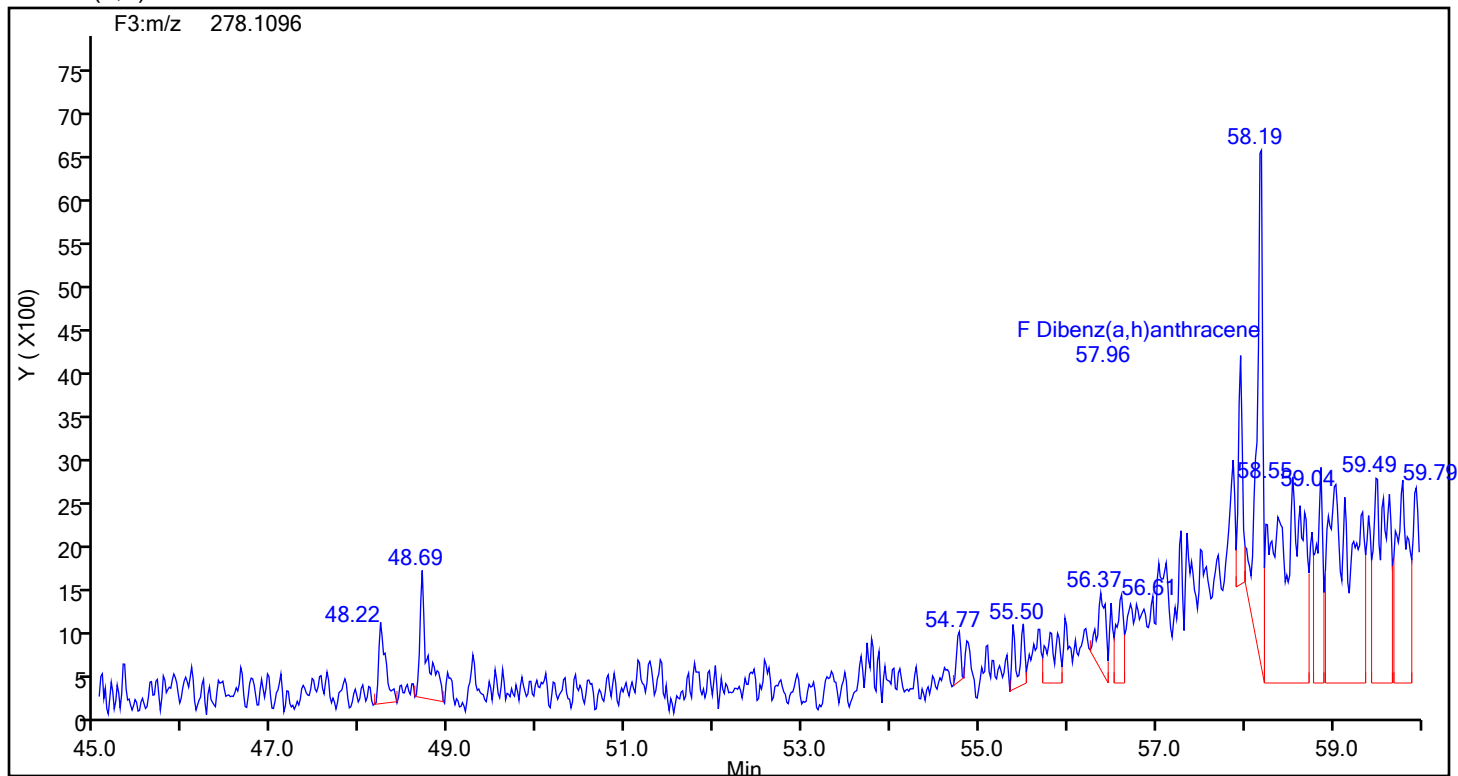
Worklist#: 88831

Sample Line#: 6

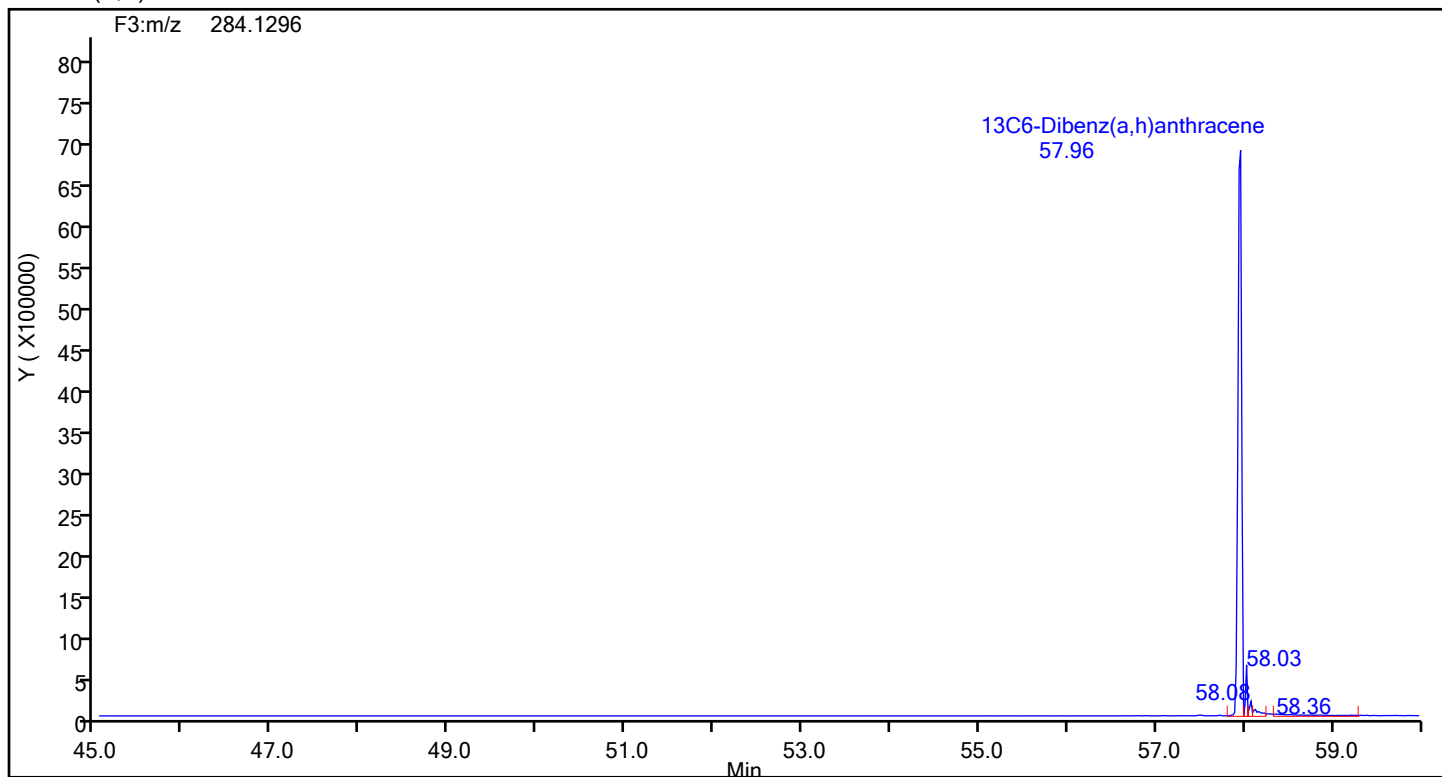
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenzo(a,h)anthracene Standards



## Eurofins Knoxville

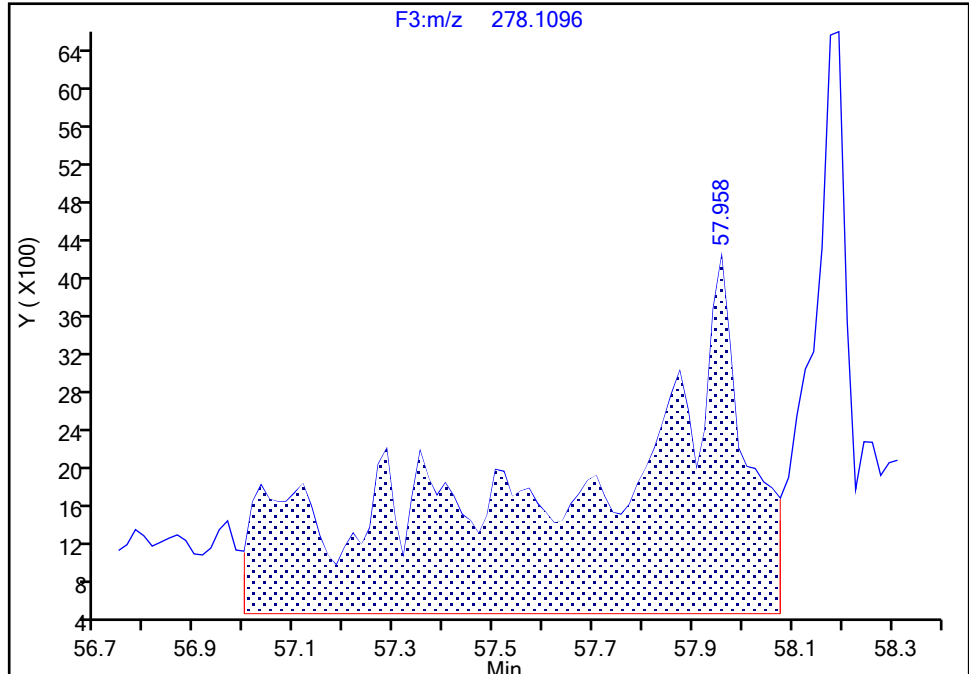
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-14-D Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

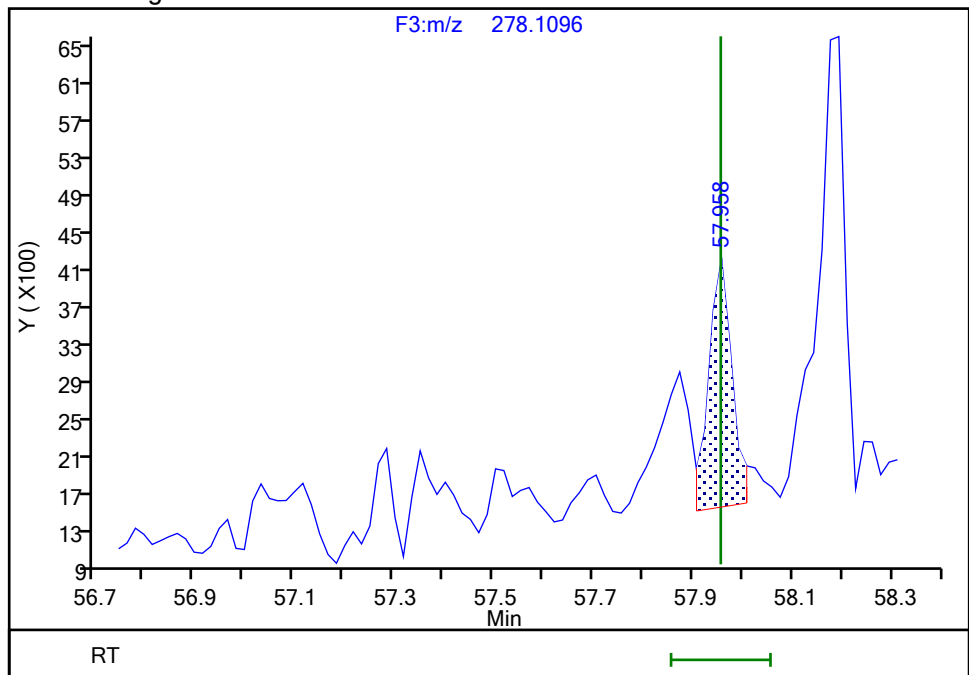
RT: 57.96  
Area: 88180  
Amount: 0.389571  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.96  
Area: 8679  
Amount: 0.038343  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 13:25:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

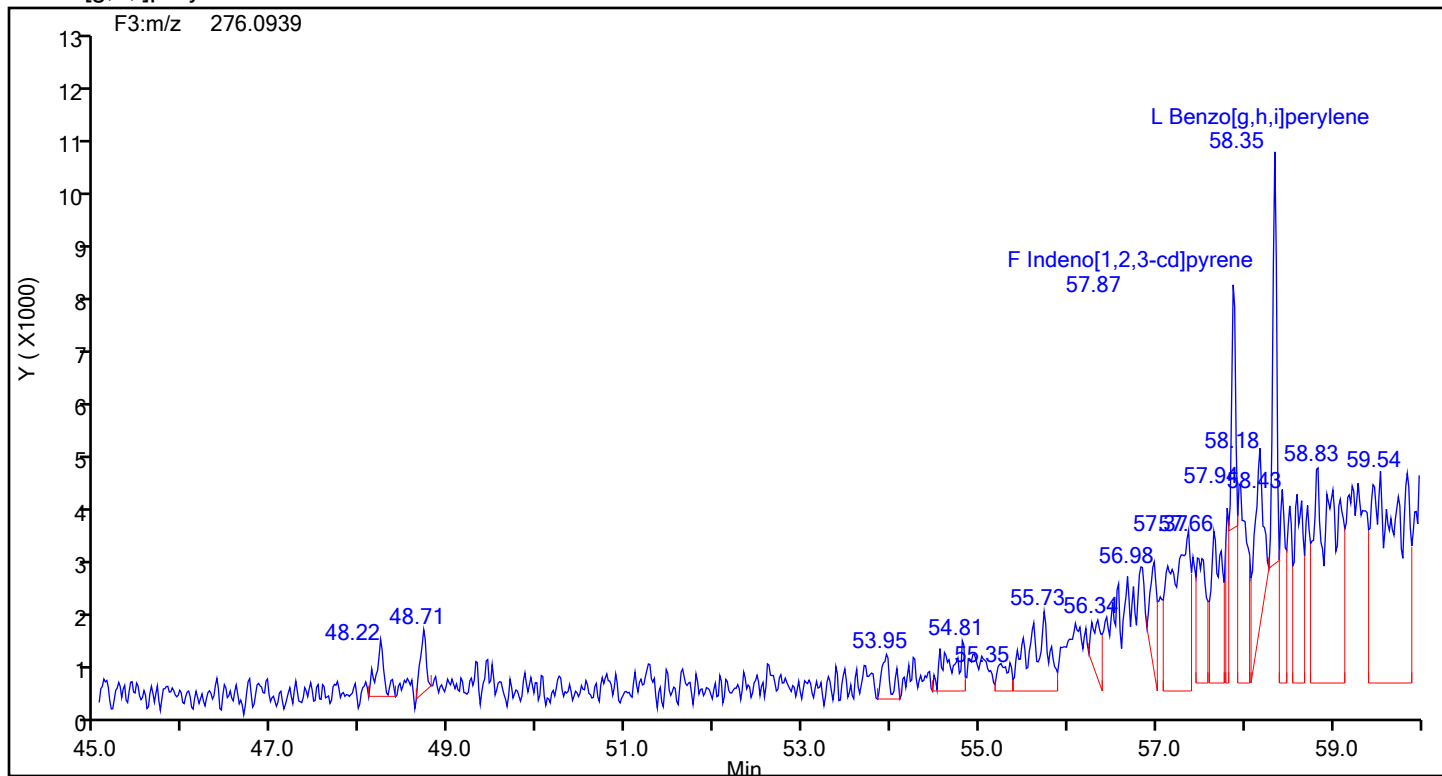
Audit Reason: Incomplete Integration



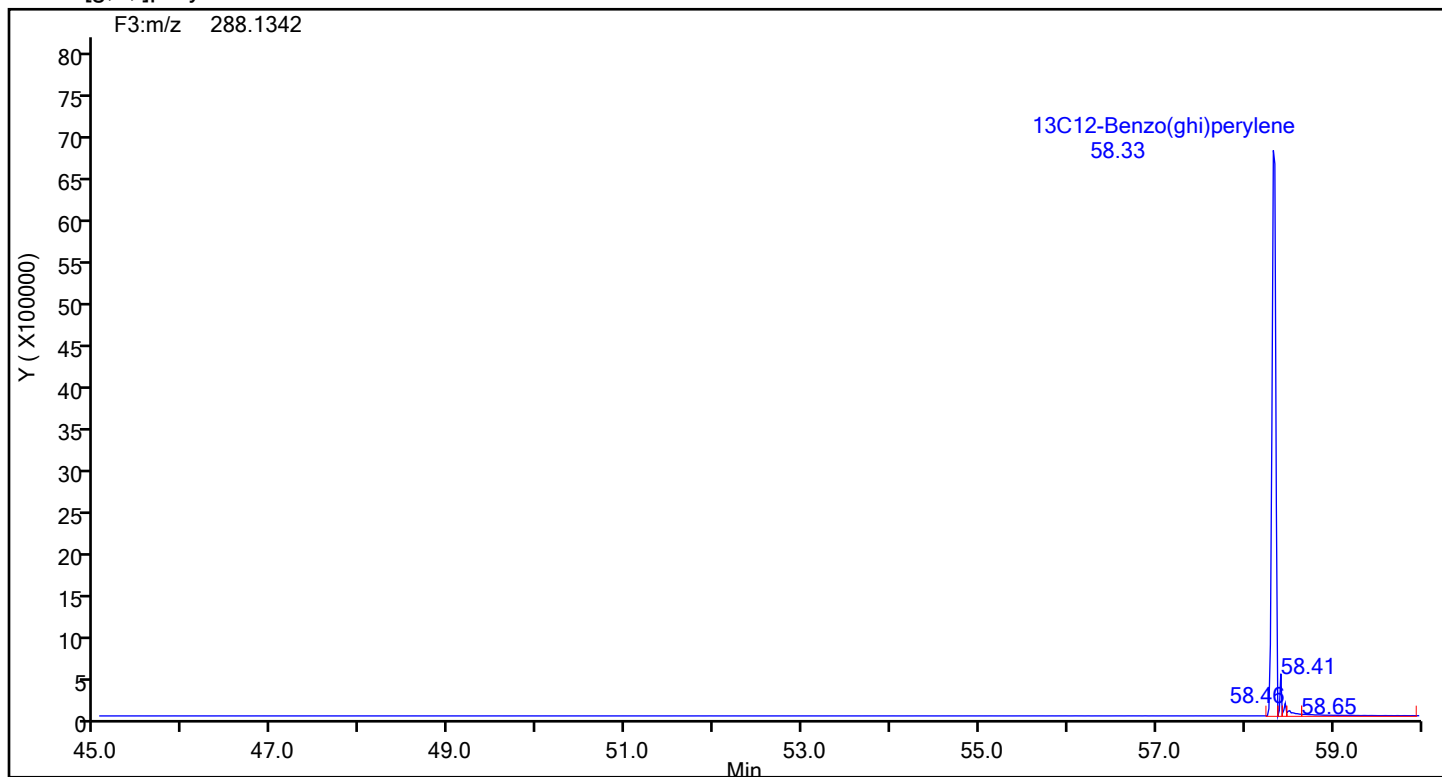
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88831 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



## Eurofins Knoxville

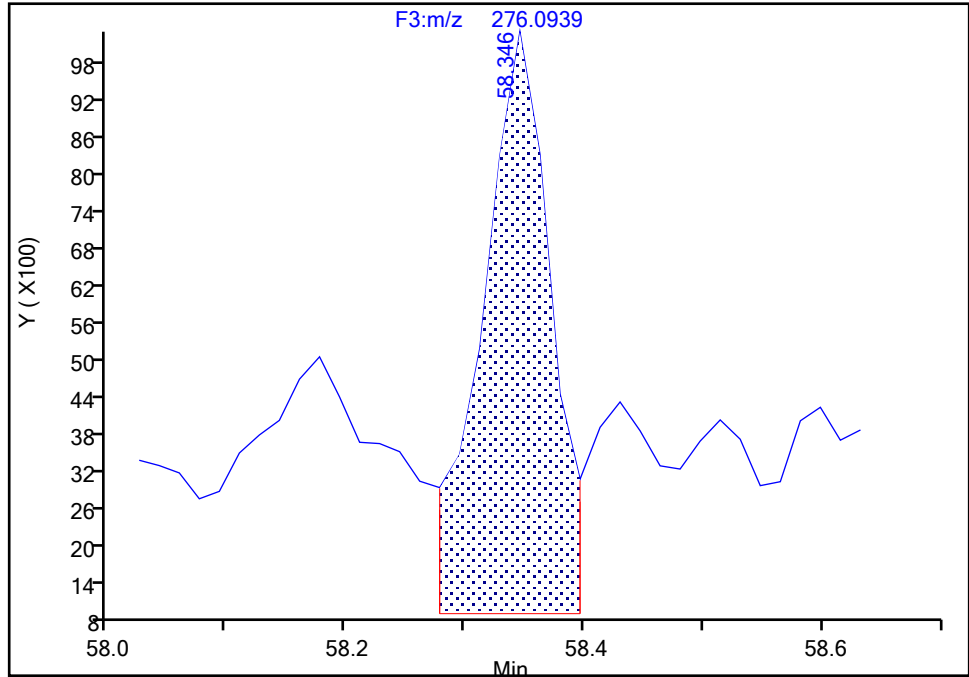
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\140-36940-a-14-d.d  
Injection Date: 17-Jul-2024 02:24:00 Instrument ID: D3PAH  
Lims ID: 140-36940-A-14-D Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

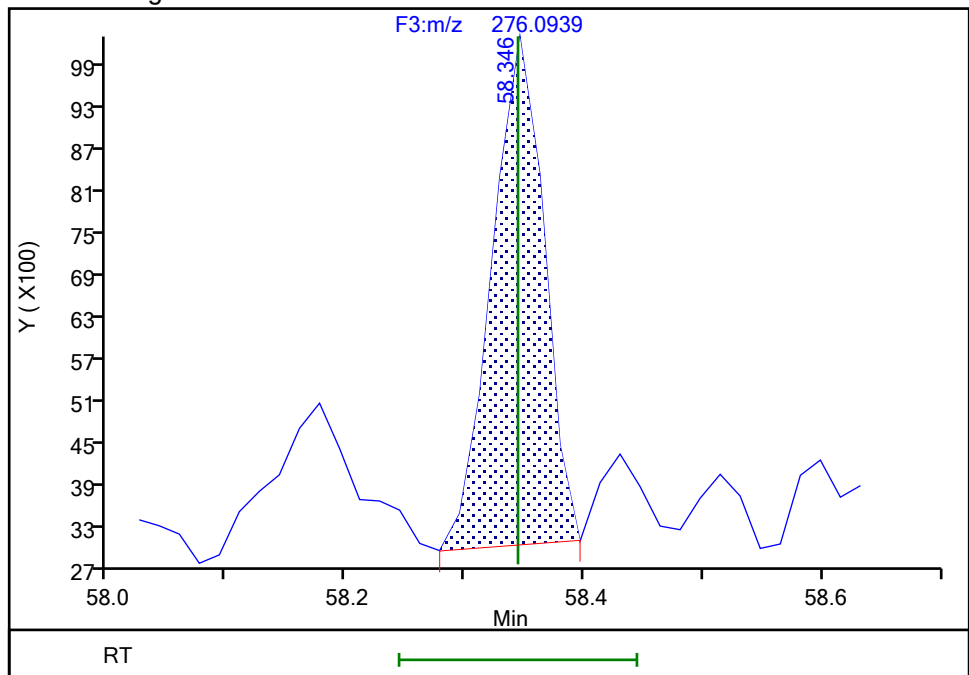
RT: 58.35  
Area: 37217  
Amount: 0.141398  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.35  
Area: 22261  
Amount: 0.084576  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 17-Jul-2024 13:26:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VI  
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87843  
SDG No.: \_\_\_\_\_  
Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87843/1	d3240619ic1.d
Level 2	IC 140-87843/2	d3240619ic2.d
Level 3	IC 140-87843/3	d3240619ic3.d
Level 4	IC 140-87843/4	d3240619ic4.d
Level 5	IC 140-87843/5	d3240619ic5.d
Level 6	IC 140-87843/6	d3240619ic6.d
Level 7	IC 140-87843/7	d3240619ic7.d
Level 8	IC 140-87843/8	d3240619ic8.d
Level 9	IC 140-87843/9	d3240619ic9.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Naphthalene	+++++ 1.2740	+++++ 1.1977	+++++ 1.2441	+++++ 1.3662	1.3643	AveI D		1.289 3				5.8		10.0			
2-Methylnaphthalene	+++++ 1.2688	+++++ 1.1855	+++++ 1.2246	+++++ 1.3502	1.3638	AveI D		1.278 6				6.1		10.0			
Acenaphthylene	2.6784 2.2429	2.3828 2.2569	2.2653 2.3046	2.2666 2.5987	2.2990	AveI D		2.366 1				6.8		10.0			
Acenaphthene	+++++ 1.2653	+++++ 1.1998	+++++ 1.1988	1.3821 1.2845	1.2877	AveI D		1.269 7				5.4		10.0			
Fluorene	+++++ 1.2315	+++++ 1.2055	+++++ 1.1992	1.3195 1.2909	1.2723	AveI D		1.253 2				3.9		10.0			
Phenanthrene	+++++ 1.0972	+++++ 1.0506	+++++ 1.0450	1.1979 1.1153	1.1206	AveI D		1.104 4				5.1		10.0			
Anthracene	+++++ 1.3426	1.5578 1.3143	1.3186 1.2821	1.3527 1.3891	1.3116	AveI D		1.358 6				6.4		10.0			
Fluoranthene	+++++ 1.1051	+++++ 1.0896	1.2143 1.1192	1.1513 1.2379	1.1420	AveI D		1.151 3				4.8		10.0			
Pyrene	+++++ 1.0283	+++++ 0.9988	1.1693 1.0231	1.0690 1.1151	1.0527	AveI D		1.065 2				5.6		10.0			
Benzo[a]anthracene	1.0378 0.9499	1.0605 0.9201	0.9423 0.9245	0.9658 1.0128	0.9510	AveI D		0.973 9				5.2		10.0			
Chrysene	+++++ 0.9465	+++++ 0.9264	1.1064 0.9360	0.9877 1.0045	0.9627	AveI D		0.981 5				6.3		10.0			
Benzo[b]fluoranthene	+++++ 1.0793	+++++ 1.0465	+++++ 1.0882	1.1713 1.2553	1.1089	AveI D		1.124 9				6.8		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87843

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzo[k]fluoranthene	1.2472 1.0508	1.3438 1.0426	1.0689 1.0745	1.1243 1.1190	1.0725	AveI n		1.127 1				9.1		10.0			
Benzo[e]pyrene	++++ 0.9413	++++ 0.9383	1.0083 0.9695	1.0829 1.0972	0.9714	AveI n		1.001 3				6.5		10.0			
Benzo[a]pyrene	1.2413 1.0507	1.2097 1.0601	1.1008 1.0871	1.1041 1.0970	1.0663	AveI n		1.113 0				6.0		10.0			
Perylene	++++ 1.3430	1.6018 1.4021	1.4662 1.4991	1.3101 ++++	1.3924	AveI n		1.430 7				7.0		10.0			
Indeno[1,2,3-cd]pyrene	++++ 1.1372	1.2057 0.9694	1.0985 1.0491	1.0578 1.3169	1.1649	AveI n		1.124 9				9.5		10.0			
Dibenz(a,h)anthracene	1.3561 1.0868	1.2167 1.0261	1.1041 1.0857	1.1015 1.1719	1.0336	AveI n		1.131 4				9.2		10.0			
Benzo[g,h,i]perylene	1.5167 1.1661	1.4345 1.1407	1.2918 1.2066	1.2677 1.3356	1.1941	AveI n		1.283 8				9.9		10.0			
13C6-Naphthalene	3.5973 2.9472	3.4322 3.3920	3.4274 3.3947	3.3734 3.2062	3.6005	Ave		3.374 6				5.9		20.0			
13C6-2-Methylnaphthalene	1.6583 1.5528	1.6409 1.6170	1.5405 1.6352	1.5807 1.5809	1.6213	Ave		1.603 1				2.6		20.0			
13C6-Acenaphthylene	1.6044 1.6538	1.6081 1.6587	1.6082 1.7178	1.6578 1.7056	1.6537	Ave		1.652 0				2.5		20.0			
13C6-Acenaphthene	0.9572 0.9760	0.9381 0.9858	0.9763 1.0256	0.9788 1.0118	0.9629	Ave		0.979 2				2.7		20.0			
13C6-Fluorene	0.8310 0.8771	0.8561 0.9159	0.8654 0.9652	0.8922 0.9362	0.8695	Ave		0.889 8				4.7		20.0			
13C6-Phenanthrene	0.5246 0.5425	0.5288 0.6157	0.5428 0.5975	0.5717 0.6555	0.5727	Ave		0.572 4				7.7		20.0			
13C6-Anthracene	0.4234 0.4320	0.4124 0.4654	0.4314 0.4797	0.4639 0.5202	0.4426	Ave		0.452 3				7.4		20.0			
13C6-Fluoranthrene	1.1421 1.1826	1.1184 1.2233	1.1546 1.2863	1.1716 1.3210	1.1945	Ave		1.199 4				5.6		20.0			
13C3-Pyrene	1.2796 1.3316	1.2672 1.3725	1.2929 1.4321	1.3132 1.5463	1.3256	Ave		1.351 2				6.6		20.0			
13C6-Benzo(a)anthracene	1.5027 1.4059	1.5257 1.4631	1.5230 1.5491	1.5373 1.7000	1.4635	Ave		1.518 9				5.4		20.0			
13C6-Chrysene	1.5556 1.5154	1.6290 1.6008	1.5920 1.6940	1.6297 1.8610	1.5809	Ave		1.628 7				6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87843

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
13C6-Benzo(b)fluoranthene	1.3920 1.3858	1.3914 1.4856	1.3818 1.5115	1.4420 1.7208	1.4477	Ave		1.462 1				7.4		20.0			
13C6-Benzo(k)fluoranthene	1.6120 1.6283	1.6254 1.7447	1.6680 1.8711	1.6736 2.2366	1.6964	Ave		1.750 7				11.4		20.0			
13C4-Benzo(e)pyrene	1.5550 1.5552	1.5654 1.5995	1.5939 1.6980	1.6231 1.9720	1.5695	Ave		1.636 8				8.2		20.0			
13C4-Benzo(a)pyrene	1.4368 1.4481	1.4655 1.5126	1.4658 1.6321	1.5002 2.0077	1.4884	Ave		1.550 8				11.7		20.0			
Perylene-d12	1.1189 1.1713	1.1558 1.2079	1.1423 1.2224	1.2123 1.3085	1.1859	Ave		1.191 7				4.7		20.0			
13C6-Indeno(1,2,3-cd)pyrene	0.9703 0.8971	1.0776 1.0949	0.9397 1.0881	1.0292 1.1905	0.9092	Ave		1.021 8				9.7		20.0			
13C6-Dibenz(a,h)anthracene	1.0039 0.9605	1.0767 1.0536	0.9694 1.1147	0.9954 1.3084	1.0148	Ave		1.055 3				10.2		20.0			
13C12-Benzo(ghi)perylene	1.1709 1.2067	1.2991 1.3022	1.1834 1.3399	1.2085 1.5312	1.2320	Ave		1.274 9				8.8		20.0			
Anthracene-d10	0.4088 0.4160	0.4109 0.4400	0.4037 0.4414	0.4246 0.4596	0.4264	Ave		0.425 7				4.3					
13C6-Benzo(c)fluorene	0.5442 0.5354	0.5341 0.5157	0.5189 0.5105	0.4536 0.5004	0.5094	Ave		0.513 6				5.2					
13C12-Benzo(j)fluoranthene	1.2934 1.2806	1.3065 1.3672	1.2863 1.4328	1.2939 1.6483	1.2936	Ave		1.355 8				8.9					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87843

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87843/1	d3240619ic1.d
Level 2	IC 140-87843/2	d3240619ic2.d
Level 3	IC 140-87843/3	d3240619ic3.d
Level 4	IC 140-87843/4	d3240619ic4.d
Level 5	IC 140-87843/5	d3240619ic5.d
Level 6	IC 140-87843/6	d3240619ic6.d
Level 7	IC 140-87843/7	d3240619ic7.d
Level 8	IC 140-87843/8	d3240619ic8.d
Level 9	IC 140-87843/9	d3240619ic9.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Naphthalene		AveID	++++ 11077976	++++ 29145441	++++ 66534766	++++ 201858027	7473056	++++ 80.0	++++ 200	++++ 400	++++ 1000	50.0
2-Methylnaphthalene		AveID	++++ 5812992	++++ 13752752	++++ 31544481	++++ 98360151	3363658	++++ 80.0	++++ 200	++++ 400	++++ 1000	50.0
Acenaphthylene		AveID	70974 6459116	133174 15960871	269411 37234784	1541031 121166606	3367785	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Acenaphthene		AveID	++++ 3643698	++++ 8485152	++++ 19367968	939646 59890100	1886298	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Fluorene		AveID	++++ 3186786	++++ 7921341	++++ 18232964	817773 55690348	1683007	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Phenanthrene		AveID	++++ 3681835	++++ 10408886	++++ 23294554	1073406 72771385	2244288	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Anthracene		AveID	++++ 3587223	91204 9842331	160718 22947314	983685 71918449	2030307	++++ 80.0	2.00 200	4.00 400	20.0 1000	50.0
Fluoranthene		AveID	++++ 8083123	++++ 21447849	396095 53709863	2114329 162763939	4770414	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Pyrene		AveID	++++ 8469657	++++ 22057676	427111 54662936	2200520 171639473	4880169	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Benzo[a]anthracene		AveID	78927 6207787	162720 15614632	282836 39547814	1488098 124165534	3701131	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Chrysene		AveID	++++ 6667789	++++ 17201644	347139 43785996	1613361 134817195	4046826	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Benzo[b]fluoranthene		AveID	++++ 6952921	++++ 18032275	++++ 45422181	1692873 155779264	4268765	++++ 80.0	++++ 200	++++ 400	20.0 1000	50.0
Benzo[k]fluoranthene		AveID	101746 7954022	219658 21097665	351417 55519685	1885945 180500584	4838139	1.00 80.0	2.00 200	4.00 400	20.0 1000	50.0
Benzo[e]pyrene		AveID	++++ 6804856	++++ 17407219	316746 45463447	1761621 156044174	4054021	++++ 80.0	++++ 200	4.00 400	20.0 1000	50.0
Benzo[a]pyrene		AveID	90261	178284	318019	1660260	4220425	1.00	2.00	4.00	20.0	50.0

FORM VI  
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

Analy Batch No.: 87843

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH

GC Column: Rxi-5SilMS ID: 0.25(mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34

Calibration End Date: 06/20/2024 01:09

Calibration ID: 5149

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			7072659	18599410	48994654	158831908		80.0	200	400	1000	
Perylene		AveID	+++++	186178	330090	1591843	4390716	+++++	2.00	4.00	20.0	50.0
			7312149	19642615	50605936	+++++		80.0	200	400	+++++	
Indeno[1,2,3-cd]pyrene		AveID	+++++	130664	203445	1091218	2816296	+++++	2.00	4.00	20.0	50.0
			4742305	12310533	31522628	113067905		80.0	200	400	1000	
Dibenz(a,h)anthracene		AveID	68899	131743	210948	1098846	2789079	1.00	2.00	4.00	20.0	50.0
			4852505	12538607	33420949	110582572		80.0	200	400	1000	
Benzo[g,h,i]perylene		AveID	89871	187407	301308	1535539	3911770	1.00	2.00	4.00	20.0	50.0
			6540833	17229589	44647127	147488032		80.0	200	400	1000	
13C6-Naphthalene	ANT	Ave	9958539	10224350	10437430	11716317	10955076	100	100	100	100	100
			10869499	12167731	13369772	14774767		100	100	100	100	
13C6-2-Methylnaphthalene	ANT	Ave	4590652	4888063	4691404	5490022	4932932	100	100	100	100	100
			5726757	5800321	6439882	7285064		100	100	100	100	
13C6-Acenaphthylene	ANT	Ave	4441490	4790245	4897592	5757839	5031692	100	100	100	100	100
			6099396	5949897	6765535	7859583		100	100	100	100	
13C6-Acenaphthene	ANT	Ave	2649873	2794458	2973262	3399456	2929756	100	100	100	100	100
			3599722	3536065	4039150	4662594		100	100	100	100	
13C6-Fluorene	ANT	Ave	2300375	2550369	2635457	3098767	2645576	100	100	100	100	100
			3234715	3285389	3801144	4314043		100	100	100	100	
13C6-Phenanthrene	PYR	Ave	3481612	3753474	3834191	4480403	4005566	100	100	100	100	100
			4194540	4953590	5572957	6524734		100	100	100	100	
13C6-Anthracene	PYR	Ave	2810000	2927417	3047129	3635963	3095933	100	100	100	100	100
			3339808	3744430	4474470	5177443		100	100	100	100	
13C6-Fluoranthrene	PYR	Ave	7580251	7938309	8154780	9182667	8354538	100	100	100	100	100
			9143194	9842103	11997910	13148739		100	100	100	100	
13C3-Pyrene	PYR	Ave	8492459	8994056	9131545	10292274	9271369	100	100	100	100	100
			10295818	11042272	13356986	15391681		100	100	100	100	
13C6-Benzo(a)anthracene	BePdl 2	Ave	7605148	7671524	7504068	7704055	7783391	100	100	100	100	100
			8168778	8485215	10694535	12260100		100	100	100	100	
13C6-Chrysene	BePdl 2	Ave	7872763	8190879	7844204	8166961	8407429	100	100	100	100	100
			8805464	9283915	11695295	13421719		100	100	100	100	
13C6-Benzo(b)fluoranthene	BePdl 2	Ave	7044571	6995957	6808556	7226370	7699352	100	100	100	100	100
			8052237	8615715	10435051	12410189		100	100	100	100	
13C6-Benzo(k)fluoranthene	BePdl 2	Ave	8157925	8172987	8218810	8387092	9021801	100	100	100	100	100
			9461461	10118186	12917530	16130058		100	100	100	100	
13C4-Benzo(e)pyrene	BePdl 2	Ave	7869617	7870944	7853527	8133857	8346864	100	100	100	100	100
			9036295	9276322	11723054	14222064		100	100	100	100	

FORM VI  
HI-RES PAHS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87843

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH GC Column: Rxi-5SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2024 16:34 Calibration End Date: 06/20/2024 01:09 Calibration ID: 5149

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
13C4-Benzo(a)pyrene	BePd1 2	Ave	7271246	7368833	7222186	7518310	7915726	100	100	100	100	100
			8413993	8772202	11267474	14479273		100	100	100	100	
Perylene-d12	BePd1 2	Ave	5662636	5811383	5628212	6075448	6306802	100	100	100	100	100
			6805855	7004851	8439141	9436646		100	100	100	100	
13C6-Indeno(1,2,3-cd)pyrene	BePd1 2	Ave	4910654	5418391	4630053	5157889	4835402	100	100	100	100	100
			5212706	6349503	7511958	8585756		100	100	100	100	
13C6-Dibenz(a,h)anthracene	BePd1 2	Ave	5080699	5414078	4776504	4988169	5397040	100	100	100	100	100
			5580937	6110020	7695778	9436274		100	100	100	100	
13C12-Benzo(ghi)perylene	BePd1 2	Ave	5925593	6532018	5830946	6056294	6552075	100	100	100	100	100
			7011632	7551974	9250572	11042946		100	100	100	100	
Anthracene-d10	PYR	Ave	2713232	2916395	2851175	3328133	2982348	100	100	100	100	100
			3216411	3540252	4116582	4574361		100	100	100	100	
13C6-Benzo(c)fluorene	PYR	Ave	3611915	3790719	3665129	3555493	3562609	100	100	100	100	100
			4139575	4148931	4761886	4981238		100	100	100	100	
13C12-Benzo(j)fluoranthene	BePd1 2	Ave	6545559	6569551	6337903	6484034	6879595	100	100	100	100	100
			7440700	7928880	9891565	11887745		100	100	100	100	

Curve Type Legend:

Ave = Average ISTD  
AveID = Average isotope dilution



# Resolution Check Report ( DFS SN: 3439 )

Date: 19 Jun 2024 16:18  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

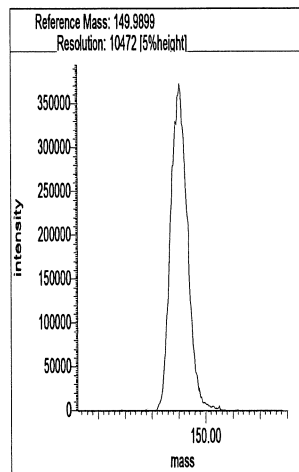
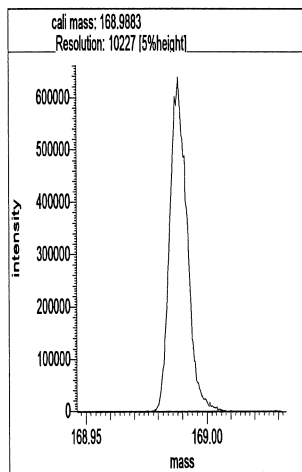
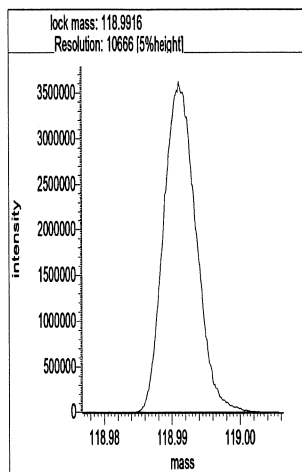
- d3240619.r16

## Segment 1

Lock mass 118.9916 [m/z] Resolution: 10666 [5%height]

Cali. mass 168.9883 [m/z] Resolution: 10227 [5%height]

Ref. mass 149.9899 [m/z] Resolution: 10472 [5%height]

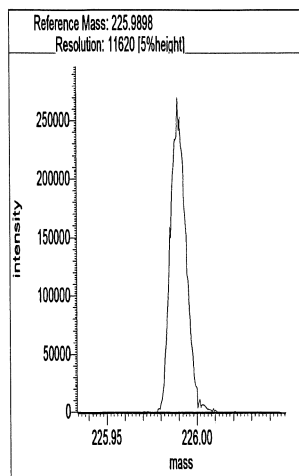
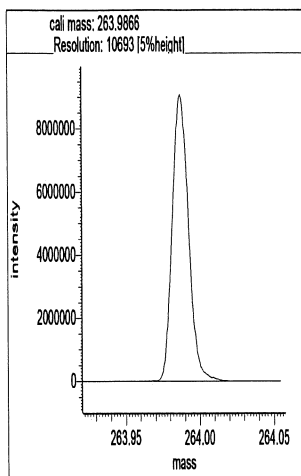
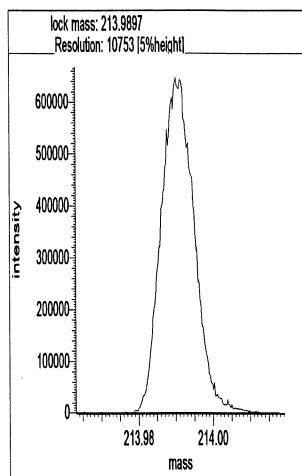


## Segment 2

Lock mass 213.9897 [m/z] Resolution: 10753 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 10693 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 11620 [5%height]

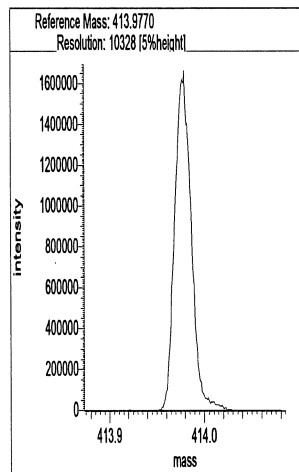
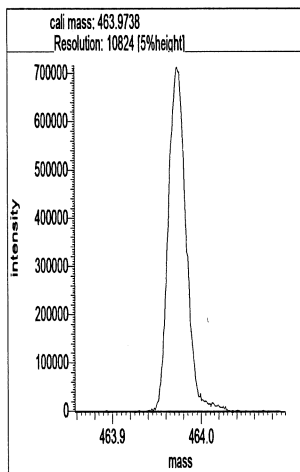
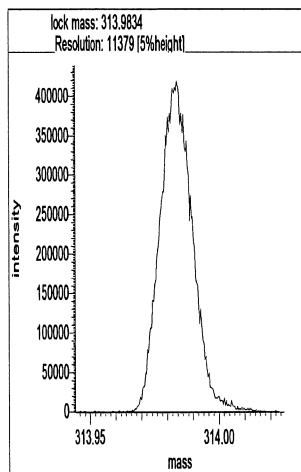


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11379 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 10824 [5%height]

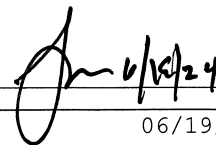
Ref. mass 413.9770 [m/z] Resolution: 10328 [5%height]



## Reports

16:26:06: Peak matching procedure started  
16:26:07:  
16:26:07: Reference mass: 263.98656  
16:26:08: Sample mass: 414.0  
16:26:08:  
16:26:09: Finding reference mass  
16:26:10: Finding sample mass  
16:26:10:  
16:26:16: [1] 413.9781 amu, mean: 413.9781 SD: 0.36 mmu or: 0.88 ppm  
16:26:19: [2] 413.9776 amu, mean: 413.9778 SD: 0.30 mmu or: 0.74 ppm  
16:26:22: [3] 413.9776 amu, mean: 413.9777 SD: 0.34 mmu or: 0.83 ppm  
16:26:25: [4] 413.9773 amu, mean: 413.9776 SD: 0.34 mmu or: 0.83 ppm  
16:26:29: [5] 413.9772 amu, mean: 413.9775 SD: 0.43 mmu or: 1.04 ppm  
16:26:32: [6] 413.9768 amu, mean: 413.9774 SD: 0.42 mmu or: 1.02 ppm  
16:26:35: [7] 413.9770 amu, mean: 413.9774 SD: 0.39 mmu or: 0.95 ppm  
16:26:38: [8] 413.9773 amu, mean: 413.9774 SD: 0.37 mmu or: 0.89 ppm  
16:26:41: [9] 413.9774 amu, mean: 413.9774 SD: 0.38 mmu or: 0.91 ppm  
16:26:44: [10] 413.9778 amu, mean: 413.9774 SD: 0.38 mmu or: 0.92 ppm  
16:26:47: [11] 413.9778 amu, mean: 413.9775  
16:26:48:  
16:26:48: Stop requested. Please wait for procedure to finish.  
16:26:48:  
16:26:51:  
16:26:51: Peakmatching stopped

Signature



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d  
Lims ID: IC L1  
Client ID:  
Sample Type: IC Calib Level: 1  
Inject. Date: 19-Jun-2024 16:34:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-001  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 20-Jun-2024 09:51:31 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:51:31

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	9958539		3.3746	106.6	106.6	0.007294	0.007294	107	
Naphthalene	11:33	1255702		1.2893	9.780	9.780	0.0236	0.0236	978	
D 13C6-2-Methylnaphthalene	13:51	4590652		1.6031	103.4	103.4	0.002417	0.002417	103	
2-Methylnaphthalene	13:52	512954		1.2786	8.739	8.739	0.0243	0.0243	874	
D 13C6-Acenaphthylene	16:44	4441490		1.6520	97.1	97.1	0.000761	0.000761	97.12	
Acenaphthylene	16:44	70974		2.3661	1.132	1.132	0.0240	0.0240	113	
* Acenaphthene-d10	17:19	2768301		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	2649873		0.9792	97.8	97.8	0.002139	0.002139	97.76	
Acenaphthene	17:27	149559		1.2697	4.445	4.445	0.0292	0.0292	445	
D 13C6-Fluorene	19:44	2300375		0.8898	93.4	93.4	0.001766	0.001766	93.38	
Fluorene	19:44	86461		1.2532	2.999	2.999	0.0396	0.0396	300	
D 13C6-Phenanthrene	25:08	3481612		0.5724	91.6	91.6	0.000997	0.000997	91.64	
Phenanthrene	25:08	126498		1.1044	3.290	3.290	0.0485	0.0485	329	
\$ Anthracin-d10	25:20	2713232		0.4257	96.0	96.0	0.000957	0.000957	96.03	
D 13C6-Anthracene	25:27	2810000		0.4523	93.6	93.6	0.001262	0.001262	93.60	
Anthracene	25:27	49456		1.3586	1.295	1.295	0.0498	0.0498	130	
D 13C6-Fluoranthrene	33:52	7580251		1.1994	95.2	95.2	0.0302	0.0302	95.23	
Fluoranthrene	33:53	126601		1.1513	1.451	1.451	0.0173	0.0173	145	
* Pyrene-d10	35:26	6636938		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	8492459		1.3512	94.7	94.7	0.0178	0.0178	94.70	
Pyrene	35:35	136948		1.0652	1.514	1.514	0.0174	0.0174	151	
\$ 13C6-Benzo(c)fluorene	39:16	3611915		0.5136	106.0	106.0	0.005079	0.005079	106	
D 13C6-Benzo(a)anthracene	46:06	7605148		1.5189	98.9	98.9	0.0172	0.0172	98.93	
Benzo[a]anthracene	46:07	78927		0.9739	1.066	1.066	0.0161	0.0161	107	
D 13C6-Chrysene	46:22	7872763		1.6287	95.5	95.5	0.0160	0.0160	95.51	
Chrysene	46:23	121048		0.9815	1.567	1.567	0.0160	0.0160	157	
D 13C6-Benzo(b)fluoranthene	54:38	7044571		1.4621	95.2	95.2	0.001282	0.001282	95.21	
Benzo[b]fluoranthene	54:38	156279		1.1249	1.972	1.972	0.0112	0.0112	197	
\$ 13C12-Benzo(j)fluoranthene	54:40	6545559		1.3558	95.4	95.4	0.0165	0.0165	95.39	
D 13C6-Benzo(k)fluoranthene	54:46	8157925		1.7507	92.1	92.1	0.001071	0.001071	92.08	
Benzo[k]fluoranthene	54:46	101746		1.1271	1.107	1.107	0.0102	0.0102	111	
* Benzo(e)pyrene-d12	55:29	5060836		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	7869617		1.6368	95.0	95.0	0.0117	0.0117	95.00	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:34	98939		1.0013	1.256	1.256	0.009239	0.009239	126	
Benzo[a]pyrene	55:42	90261		1.1130	1.115	1.115	0.009497	0.009497	112	
D 13C4-Benzo(a)pyrene	55:42	7271246		1.5508	92.6	92.6	0.0124	0.0124	92.65	
D Perylene-d12	55:52	5662636		1.1917	93.9	93.9	0.0173	0.0173	93.89	
Perylene	55:56	105365		1.4307	1.301	1.301	0.008225	0.008225	130	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	4910654		1.0218	95.0	95.0	0.0109	0.0109	94.96	
Indeno[1,2,3-cd]pyrene	58:01	64723		1.1249	1.172	1.172	0.008757	0.008757	117	
D 13C6-Dibenz(a,h)anthracene	58:06	5080699		1.0553	95.1	95.1	0.005829	0.005829	95.13	M
Dibenz(a,h)anthracene	58:06	68899		1.1314	1.199	1.199	0.007519	0.007519	120	
D 13C12-Benzo(ghi)perylene	58:29	5925593		1.2749	91.8	91.8	0.005514	0.005514	91.84	M
Benzo[g,h,i]perylene	58:30	89871		1.2838	1.181	1.181	0.007007	0.007007	118	M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS1\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic1.d  
Lims ID: IC L1  
Client ID:  
Sample Type: IC Calib Level: 1  
Inject. Date: 19-Jun-2024 16:34:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-001  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 20-Jun-2024 09:51:31 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:51:31

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	9958539	3339076	94	235	35522		
Naphthalene											
128.0626	11:33	11:34	-1	1.001	1255702	387907	406	1015	955		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	4590652	2078419	15	37	138561		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.001	512954	235496	259	647	909		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	4441490	1551969	5	12	310394		
Acenaphthylene											
152.0626	16:44	16:45	-1	1.000	70974	22149	214	535	104		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		2768301	954801	2	5	477401		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	2649873	942829	8	20	117854		
Acenaphthene											
154.0783	17:27	17:27	-1	1.001	149559	50602	140	350	361		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.139	2300375	659741	6	15	109957		
Fluorene											
166.0783	19:44	19:45	0	1.001	86461	24882	131	327	190		
13C6-Phenanthrene											
184.0984	25:08	25:08	-1	0.709	3481612	802292	3	7	267431		
Phenanthrene											
178.0783	25:08	25:08	-1	1.000	126498	30521	172	430	177		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	2713232	626252	2	5	313126		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	2810000	635348	3	7	211783		
Anthracene											
178.0783	25:27	25:28	-1	1.000	49456	8992	172	430	52		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-1	0.956	7580251	1465845	178	445	8235		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	126601	24370	117	292	208		
Pyrene-d10											
212.1404	35:26	35:27	-1		6636938	1226668	11	27	111515		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	8492459	1575711	118	295	13353		
Pyrene											
202.0783	35:35	35:35	-1	1.000	136948	24652	117	292	211		
13C6-Benzo(c)fluorene											
222.1134	39:16	39:18	-1	0.708	3611915	673373	13	32	51798		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-1	1.301	7605148	1311407	178	445	7367		
Benzo[a]anthracene											
228.0939	46:07	46:07	0	1.000	78927	13628	82	205	166		
13C6-Chrysene											
234.1140	46:22	46:24	-1	1.309	7872763	1307149	178	445	7344		
Chrysene											
228.0939	46:23	46:25	-1	1.000	121048	21156	82	205	258		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-1	0.985	7044571	1868122	13	32	143702		
Benzo[b]fluoranthene											
252.0939	54:38	54:40	-1	1.000	156279	41853	94	235	445		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-1	0.985	6545559	1666162	153	382	10890		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	8157925	2035926	13	32	156610		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	101746	26976	94	235	287		
Benzo(e)pyrene-d12											
264.1692	55:29	55:30	-1		5060836	1707083	141	352	12107		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-1	1.002	7869617	2540474	131	327	19393		
Benzo[e]pyrene											
252.0939	55:34	55:35	-1	1.000	98939	32907	94	235	350		
Benzo[a]pyrene											
252.0939	55:42	55:44	-1	1.000	90261	27237	94	235	290		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:42	55:44	-1	1.004	7271246	2223191	131	327	16971		
Perylene-d12											
264.1692	55:52	55:54	-1	1.007	5662636	1997049	141	352	14163		
Perylene											
252.0939	55:56	55:58	-1	1.001	105365	30703	94	235	327		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	4910654	1542898	76	190	20301		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	64723	19980	61	152	328		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	5080699	1316523	42	105	31346		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	68899	18096	45	112	402		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	5925593	1689760	48	120	35203		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	89871	23753	61	152	389		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS1\_00002

Amount Added: 20.00

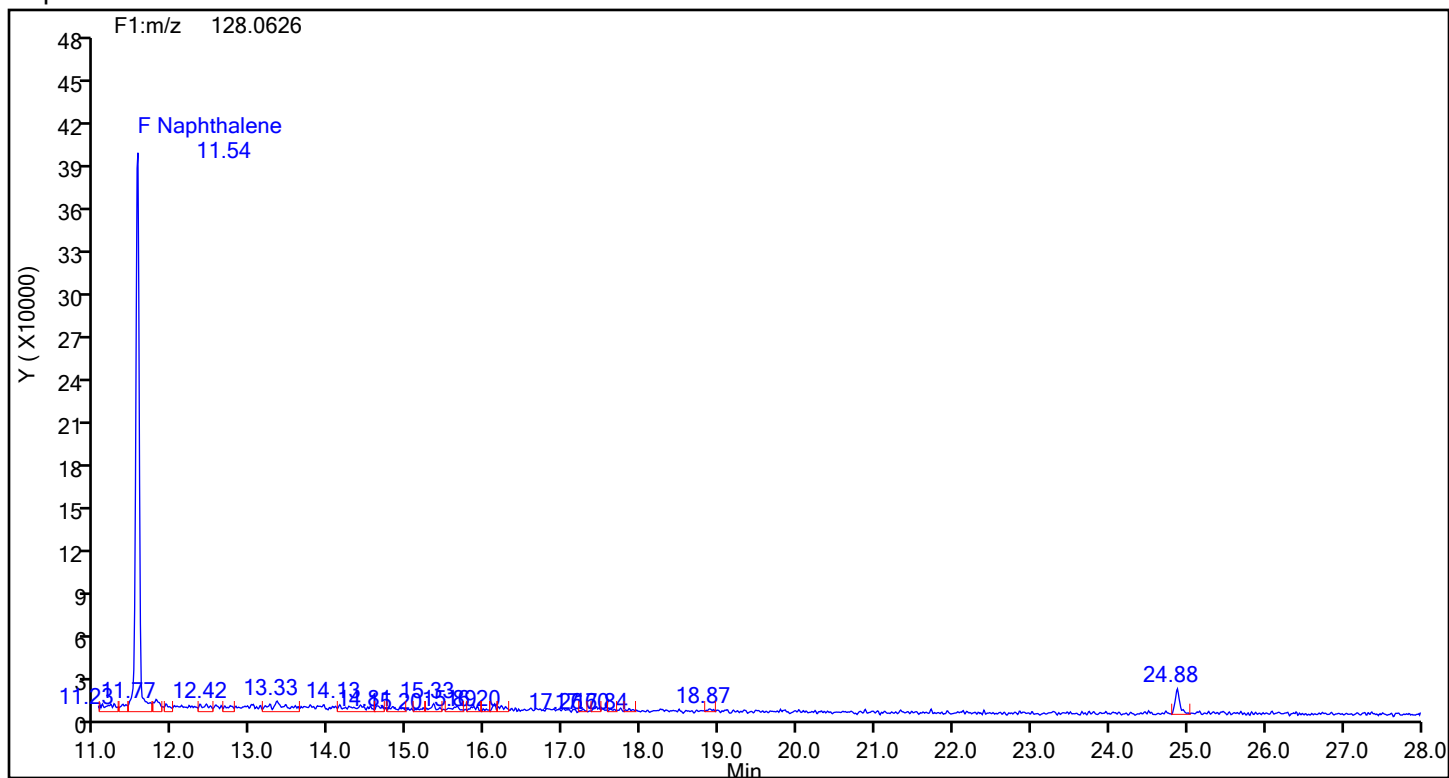
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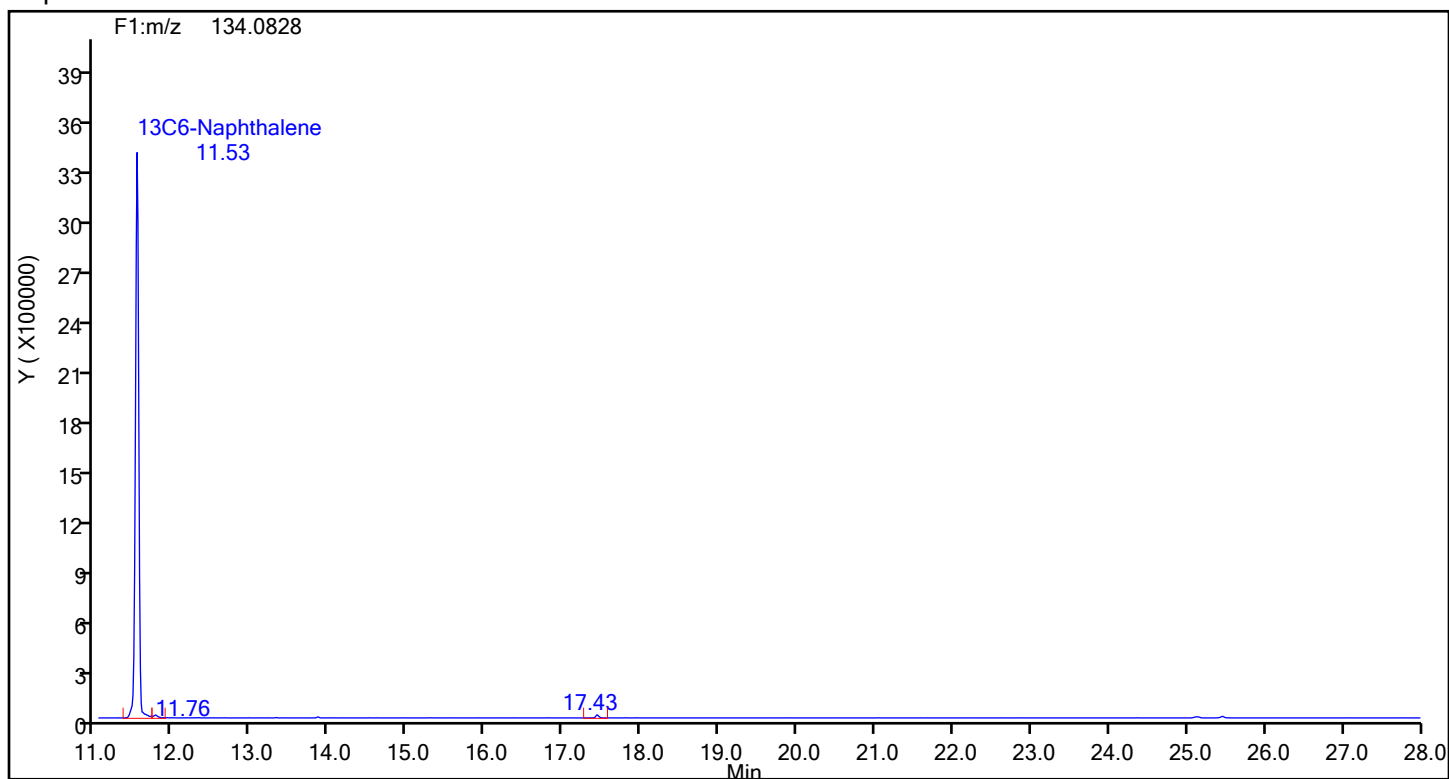
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Injection Date: 19-Jun-2024 16:34:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



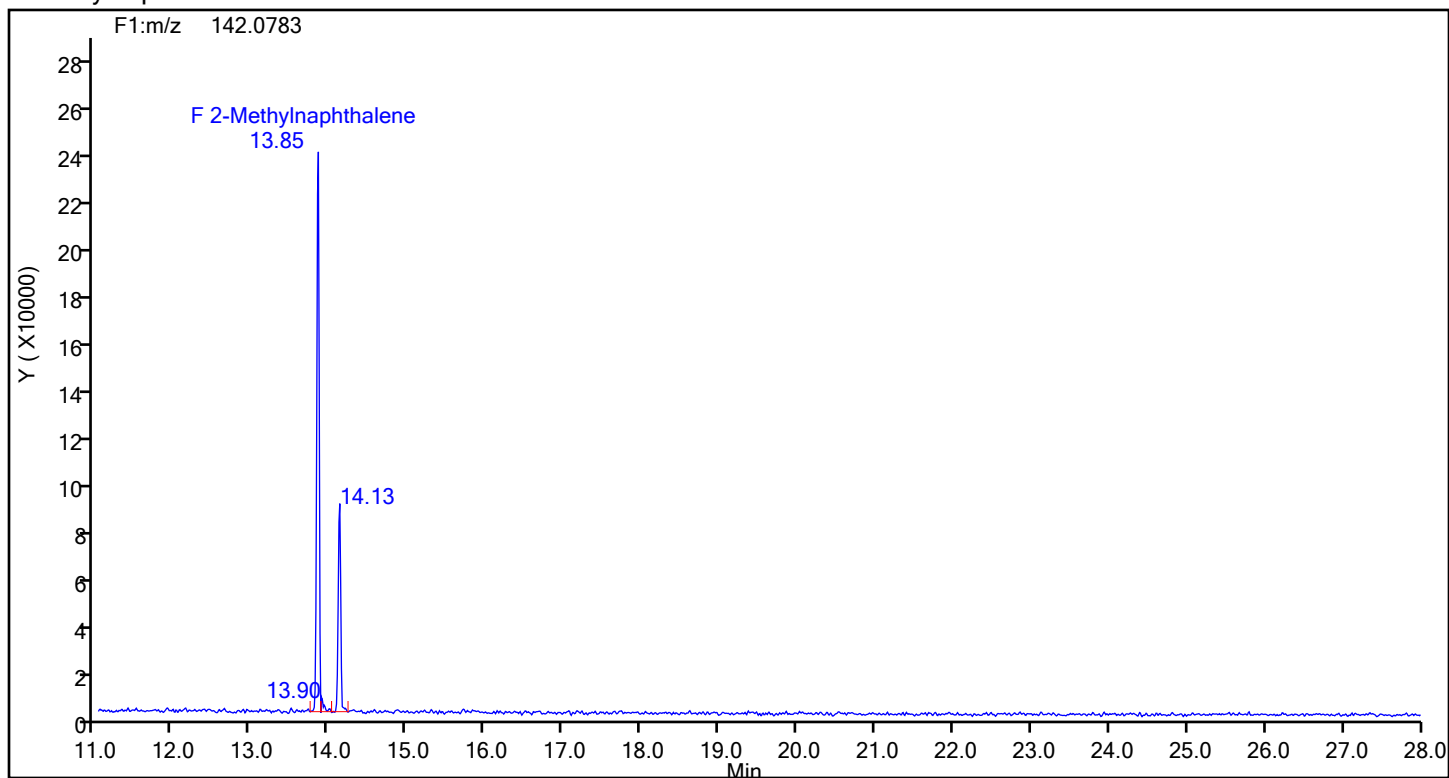
## Naphthalene Standards



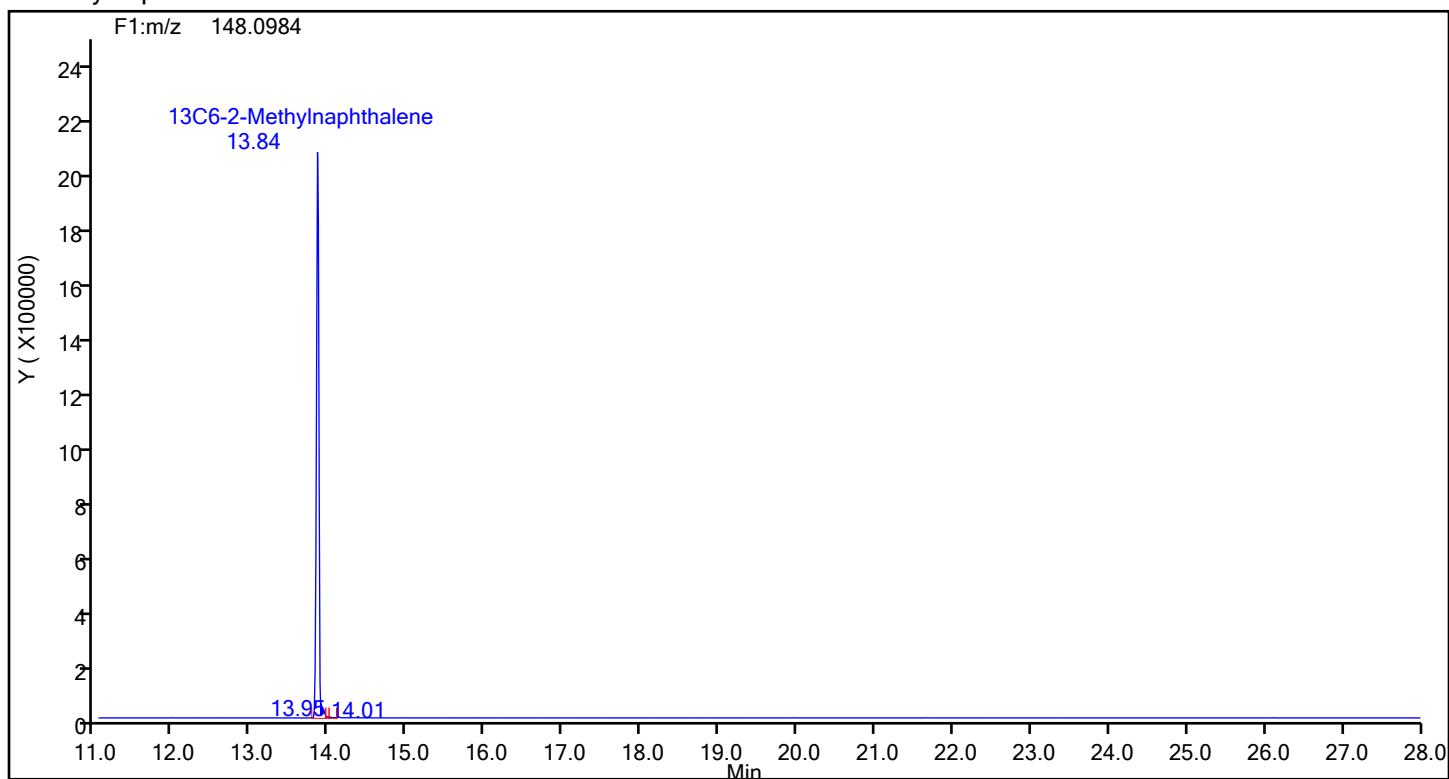
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



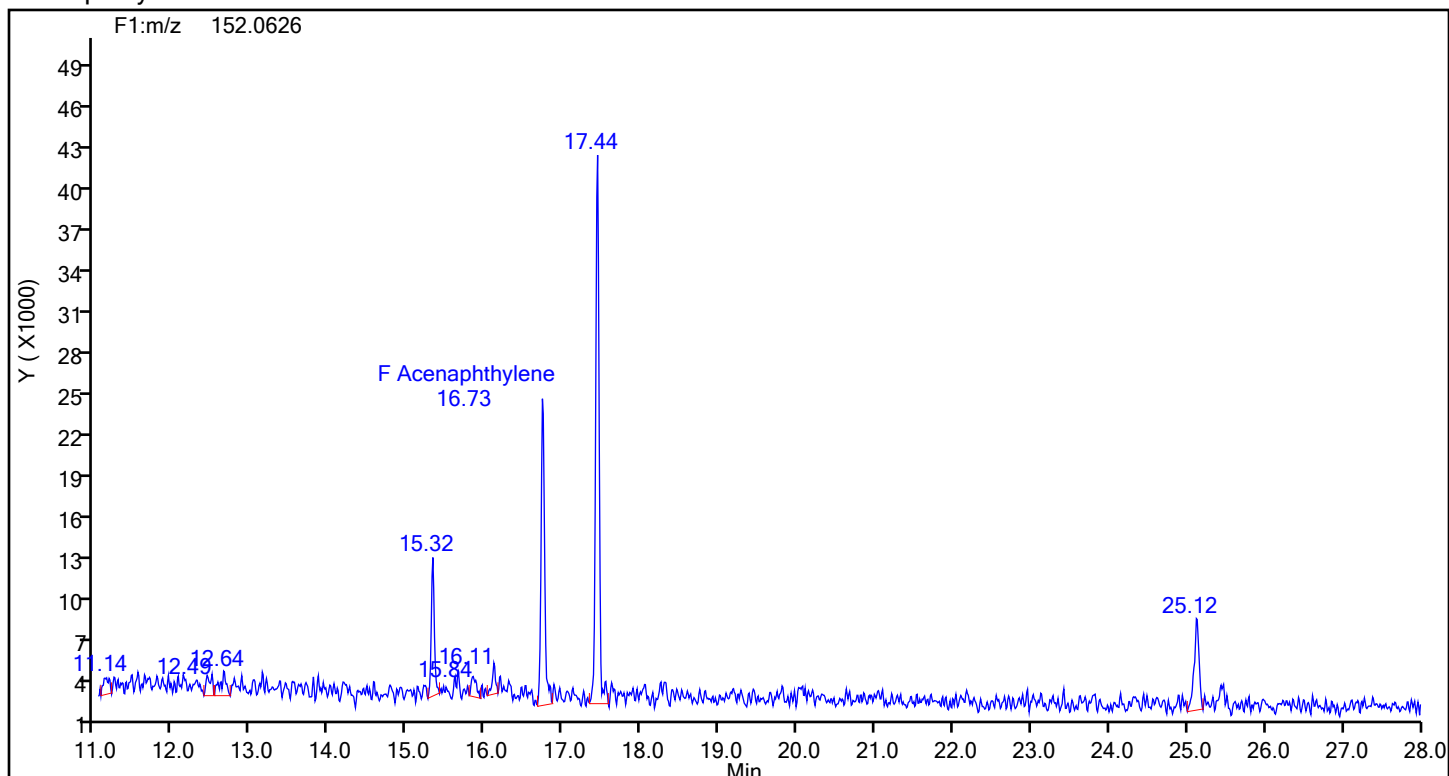
## 2-Methylnaphthalene Standards



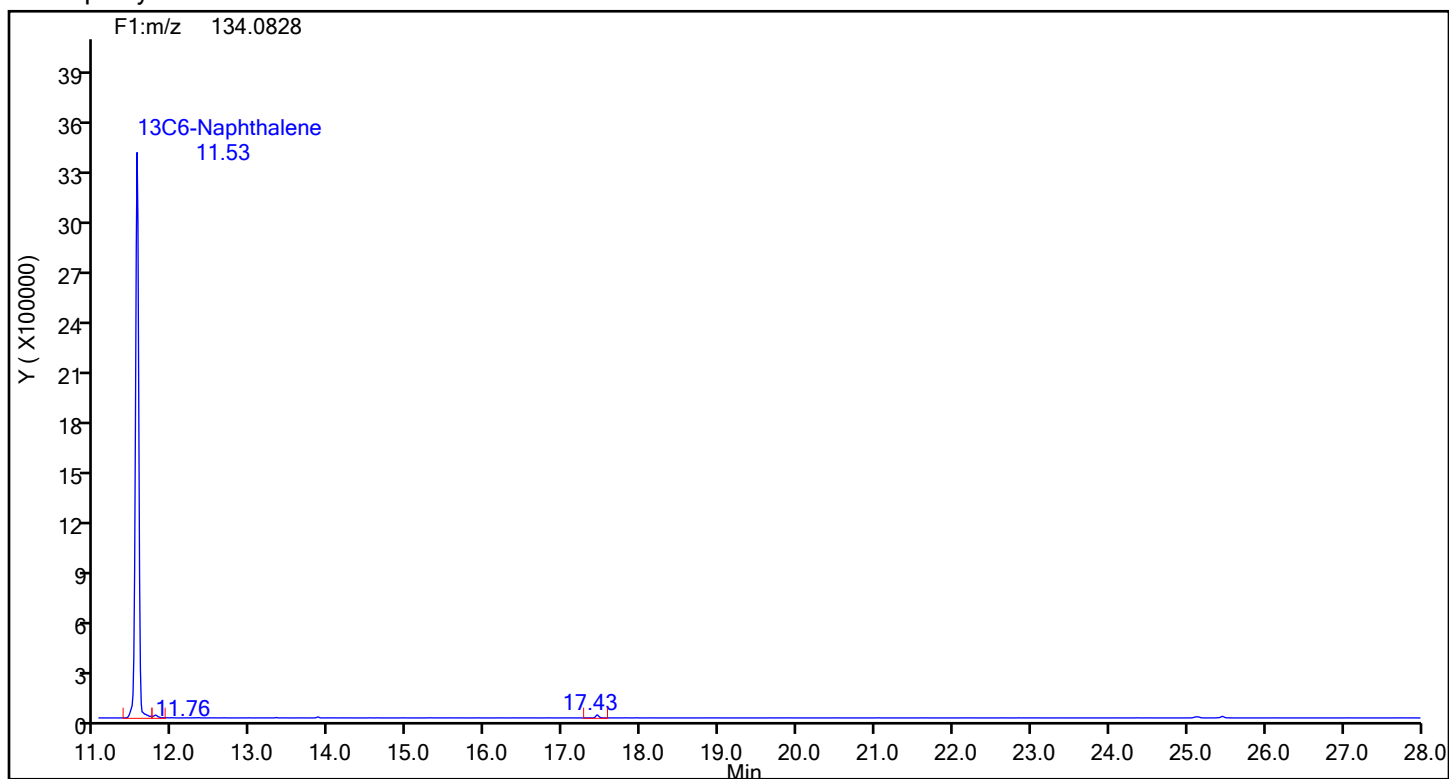
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



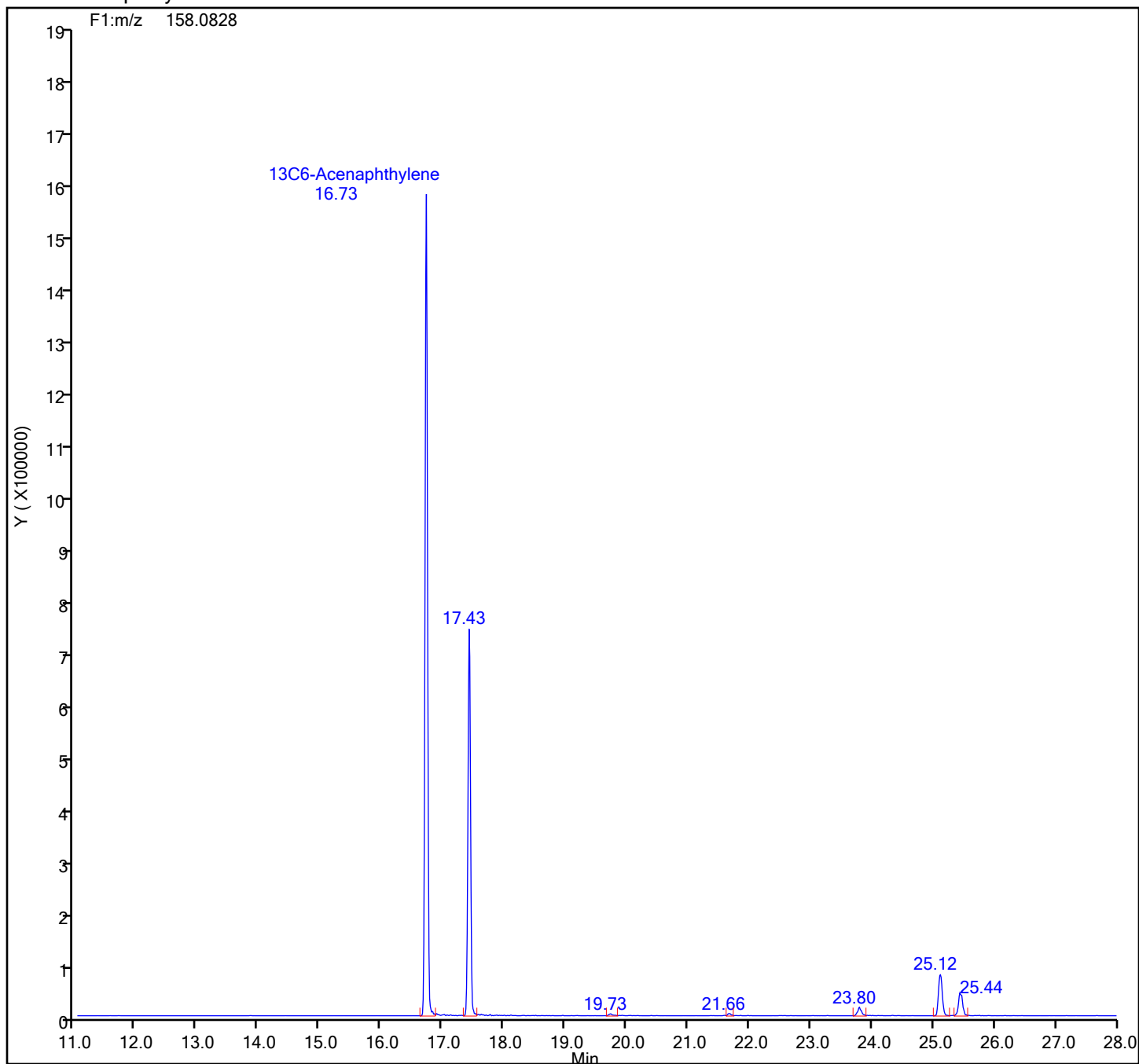
## Acenaphthylene Standards



## Eurofins Knoxville

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Client ID:  
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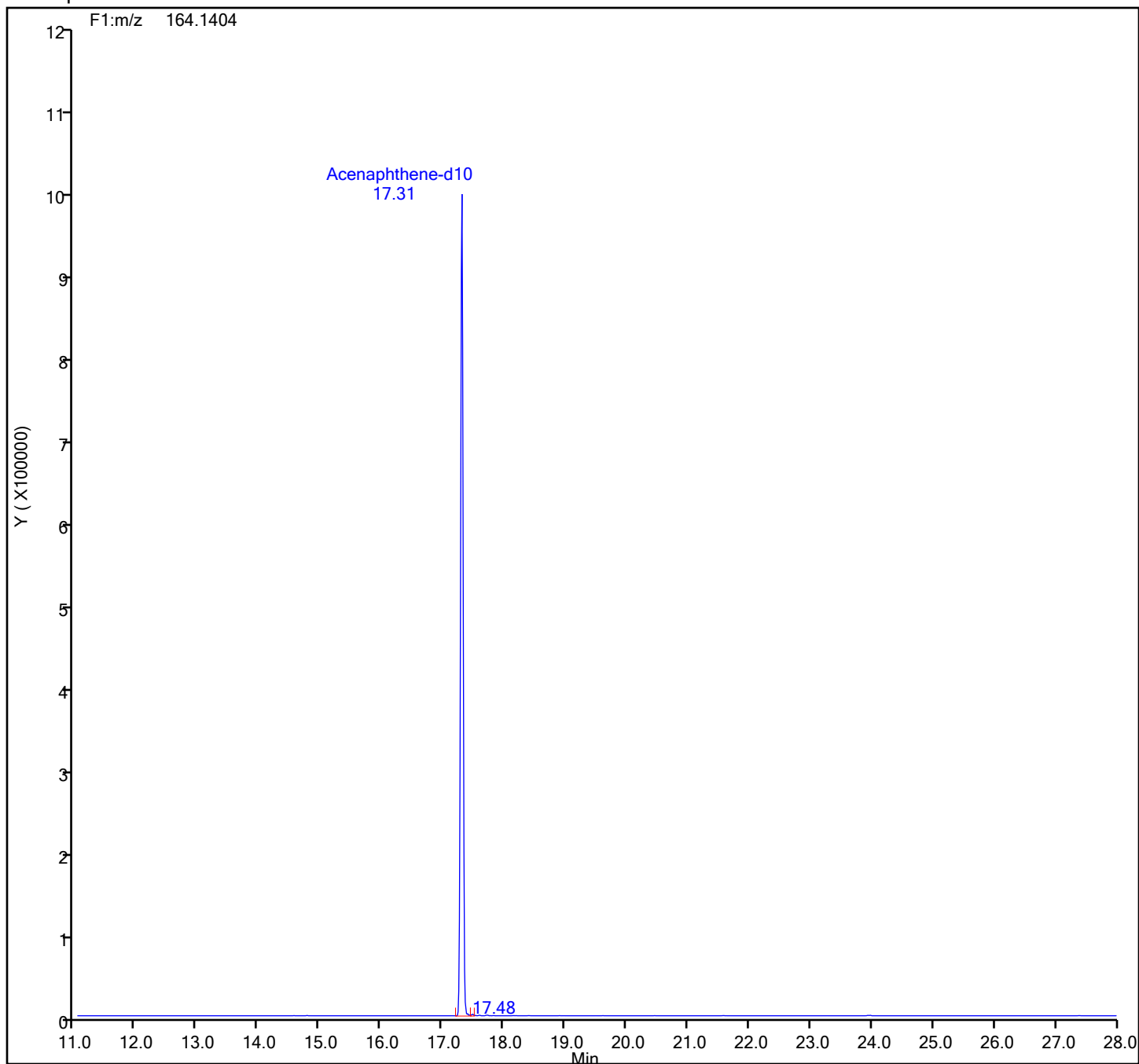
## 13C6-Acenaphthylene Standards



## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
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Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

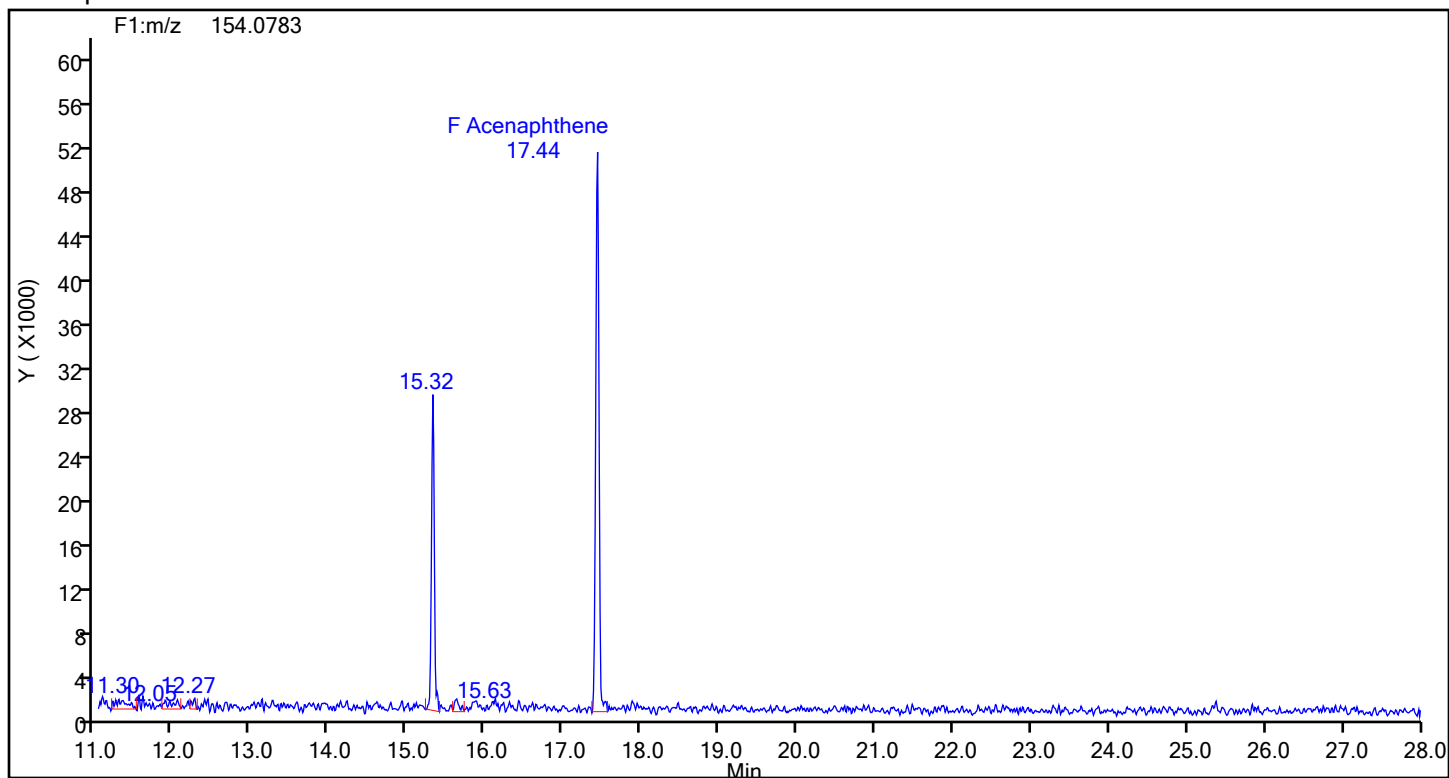
## Acenaphthene-d10 Standards



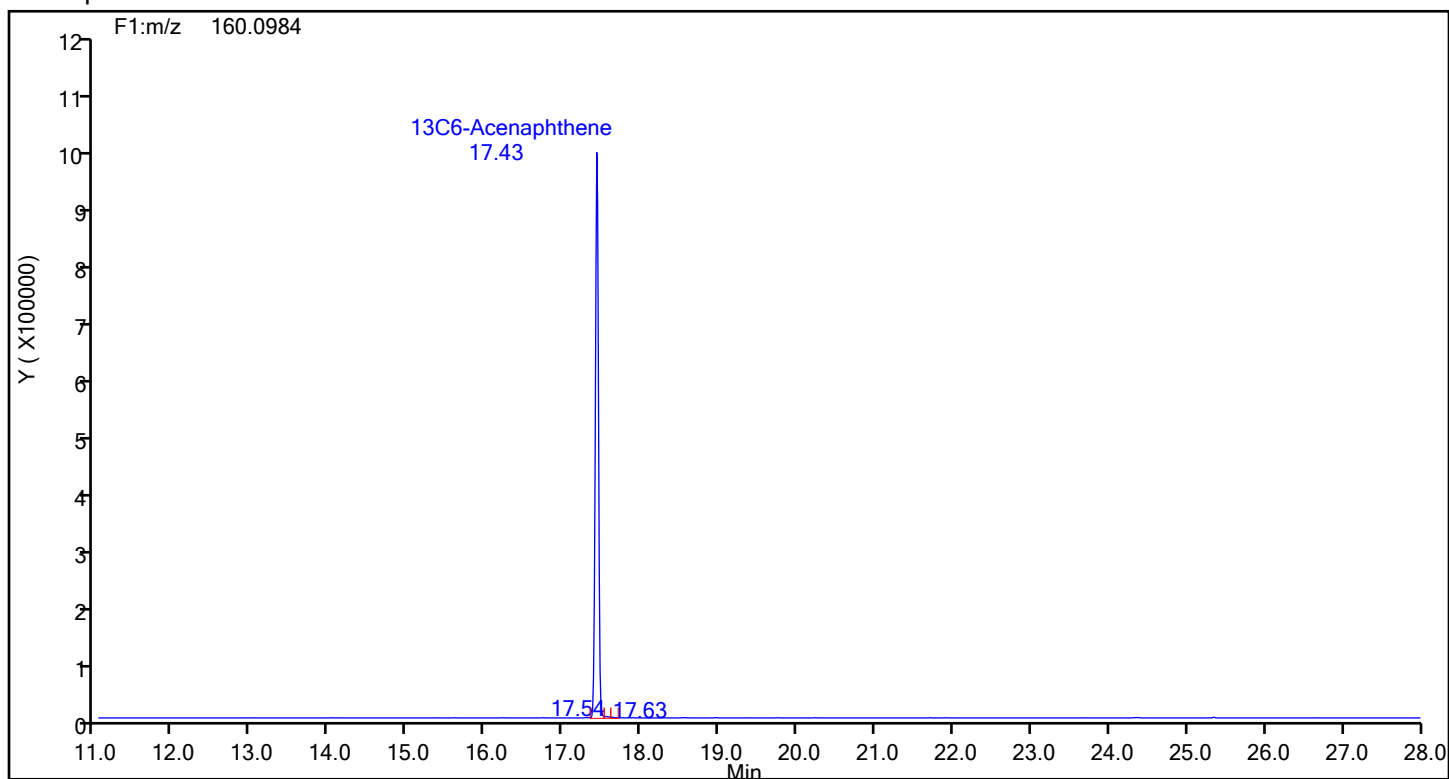
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



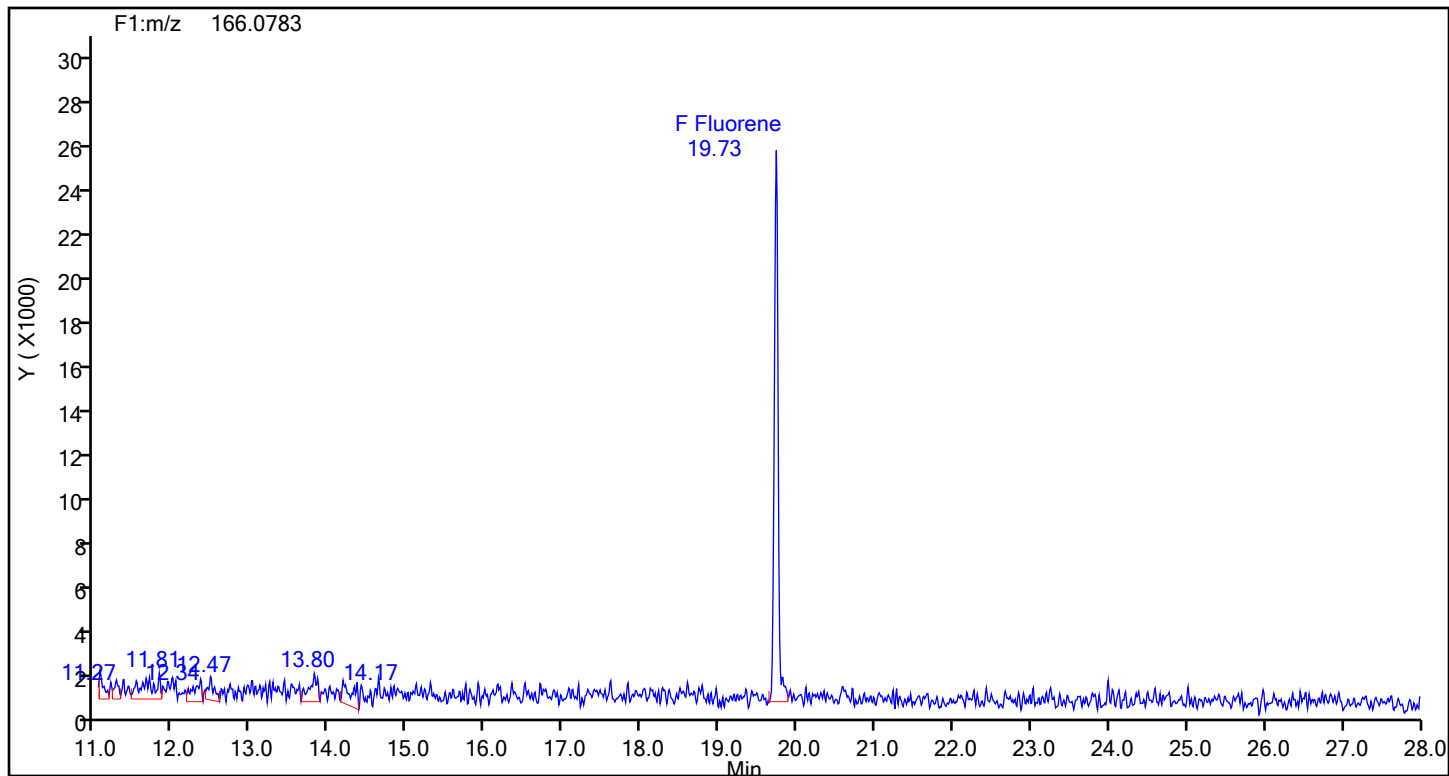
## Acenaphthene Standards



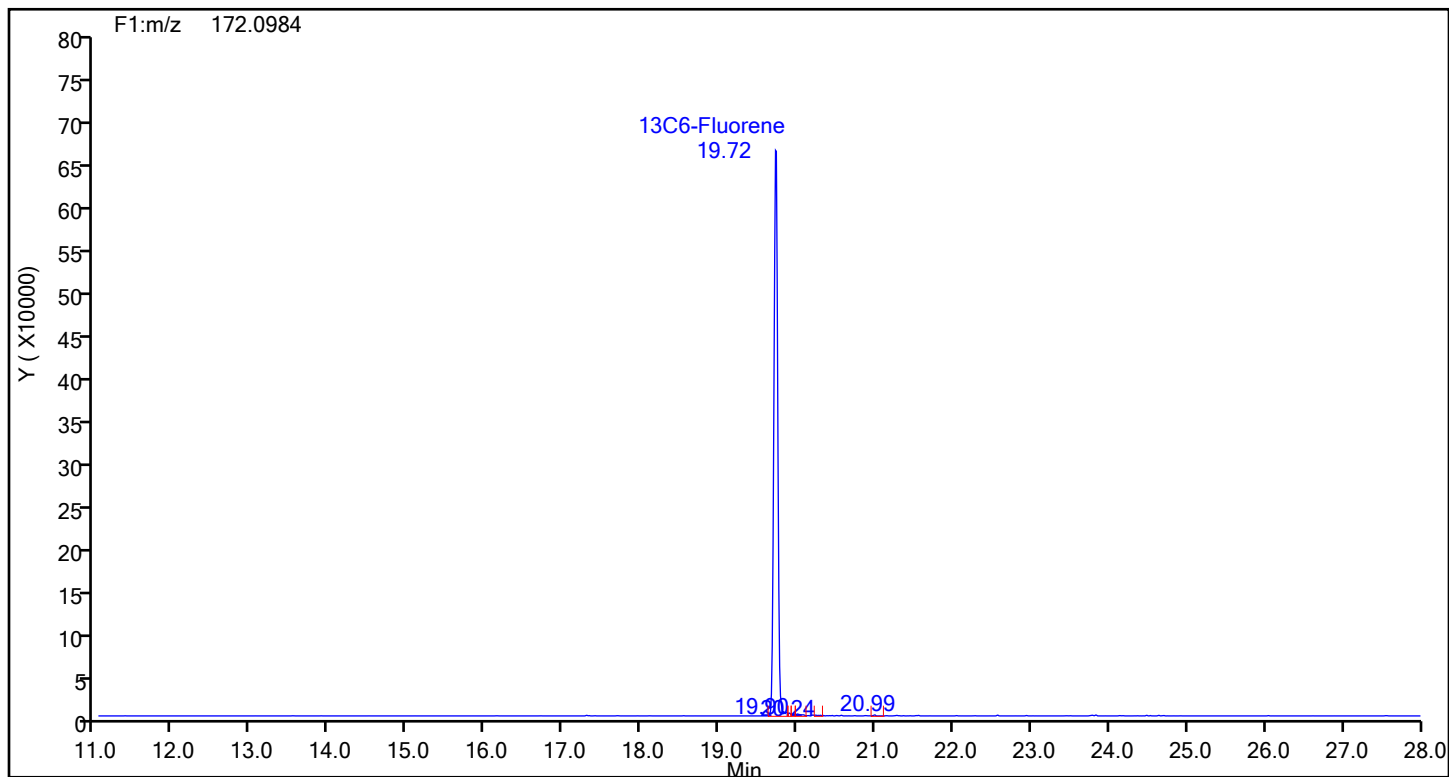
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene

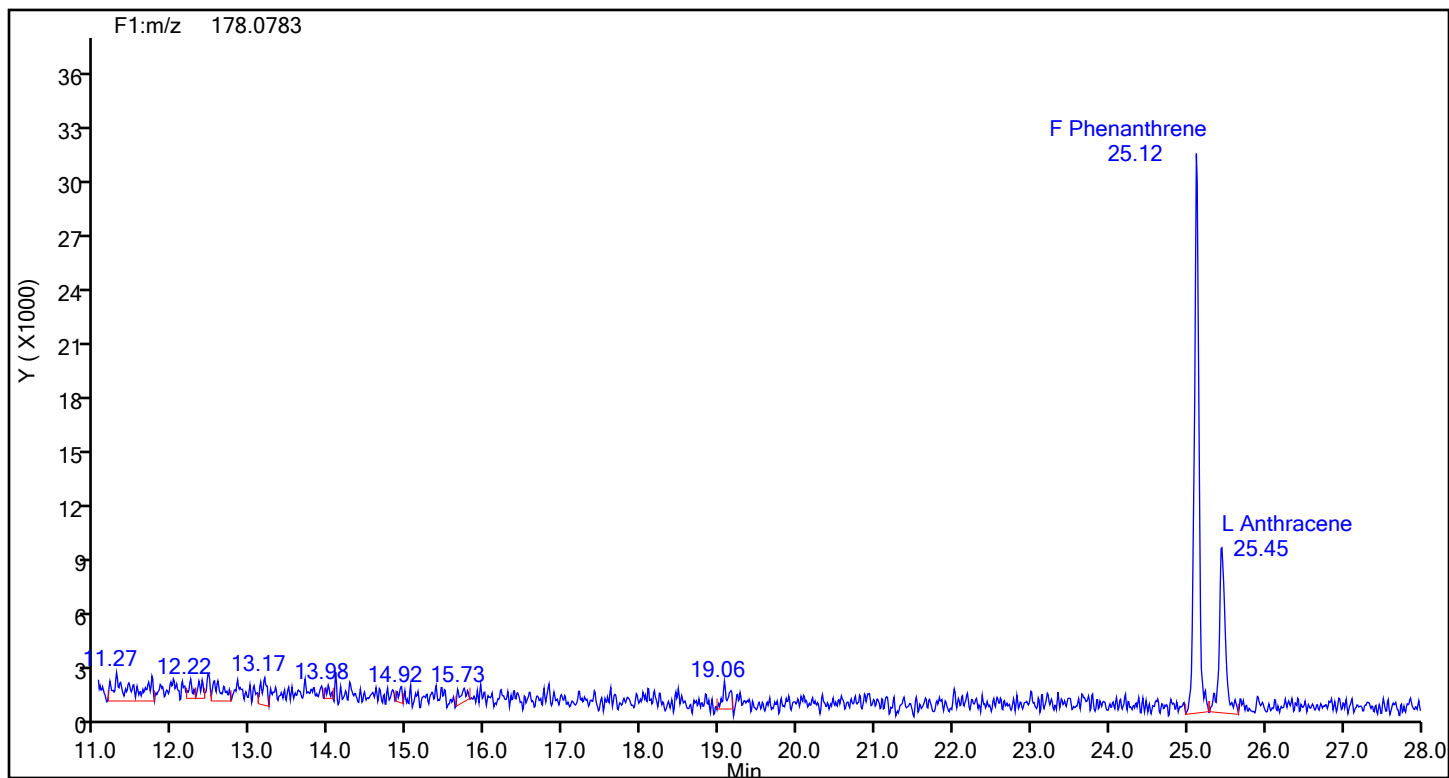


## Fluorene Standards

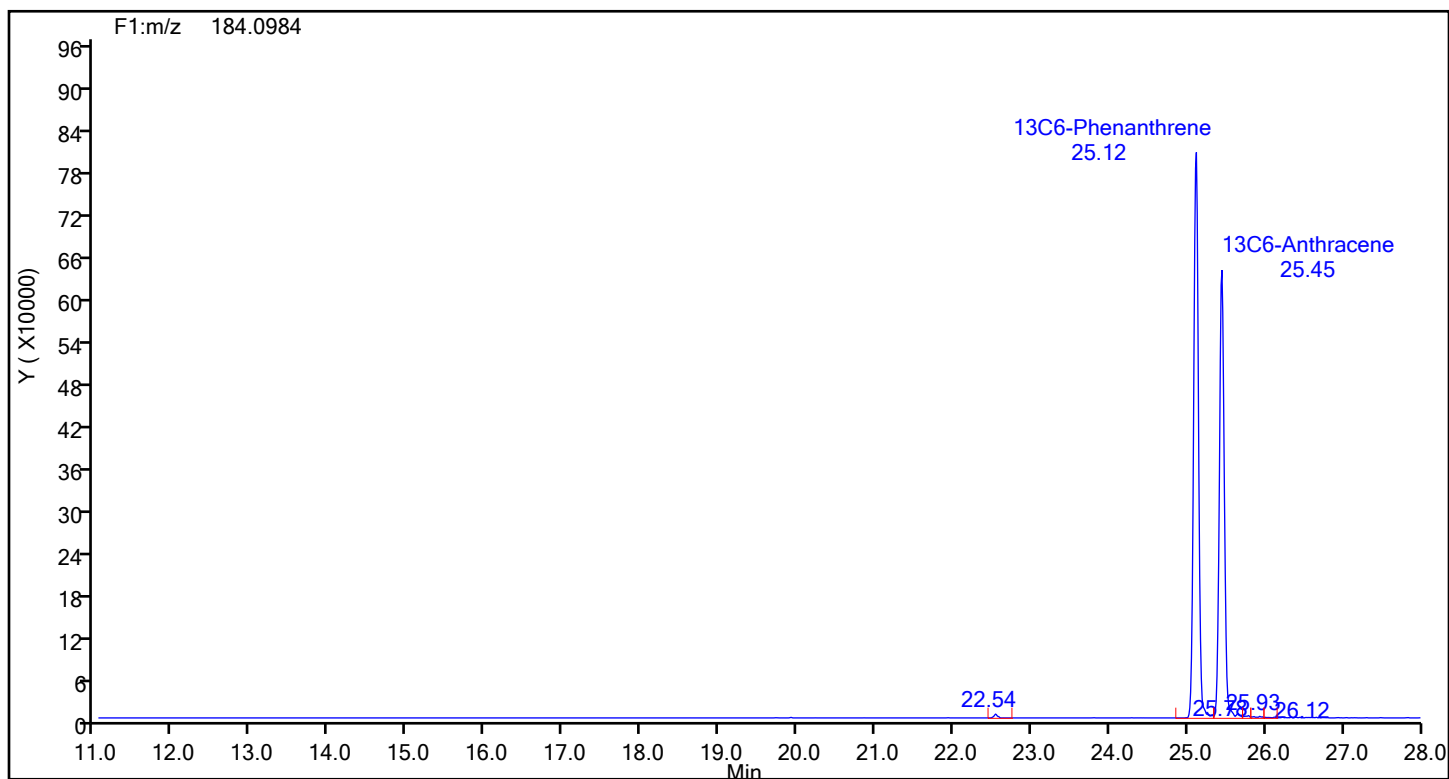


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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene



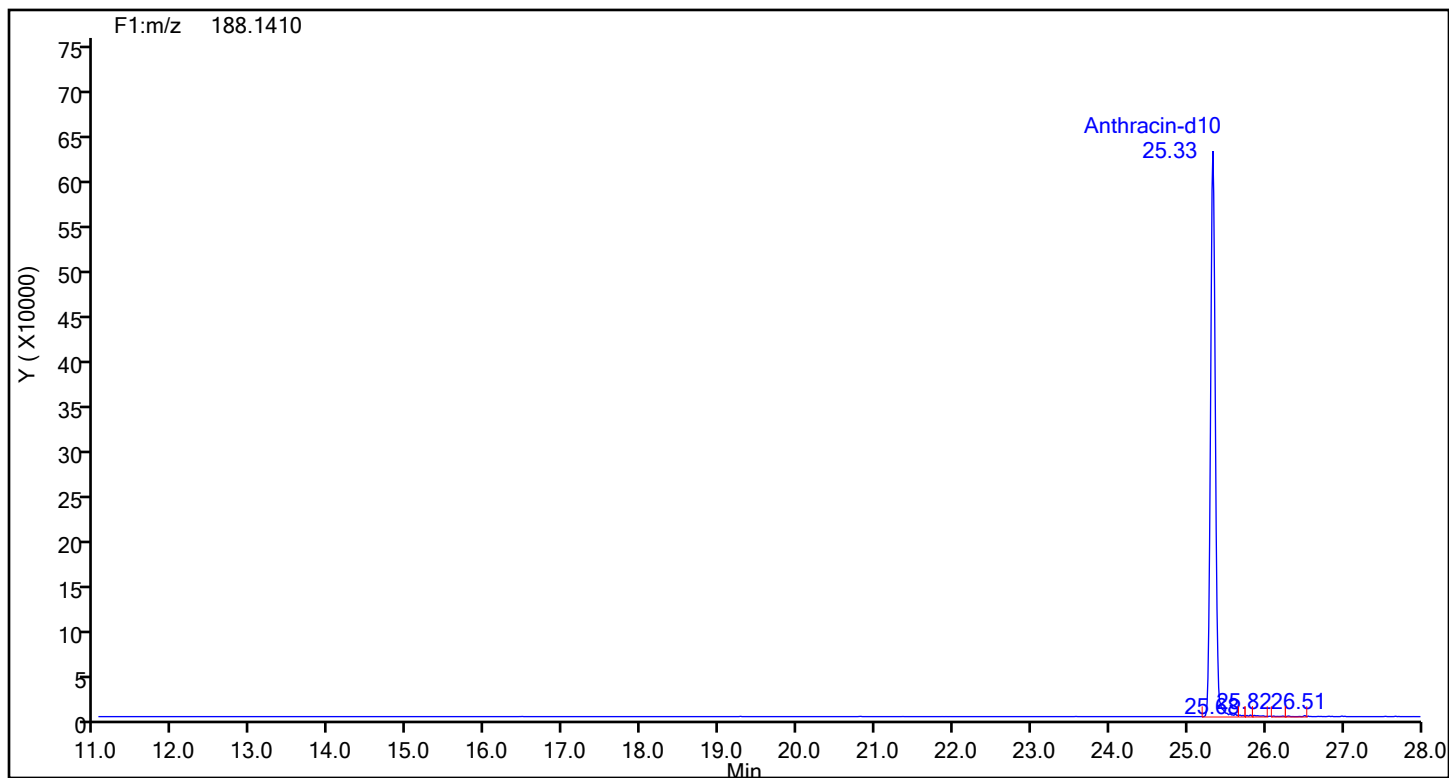
## Phenanthrene Standards



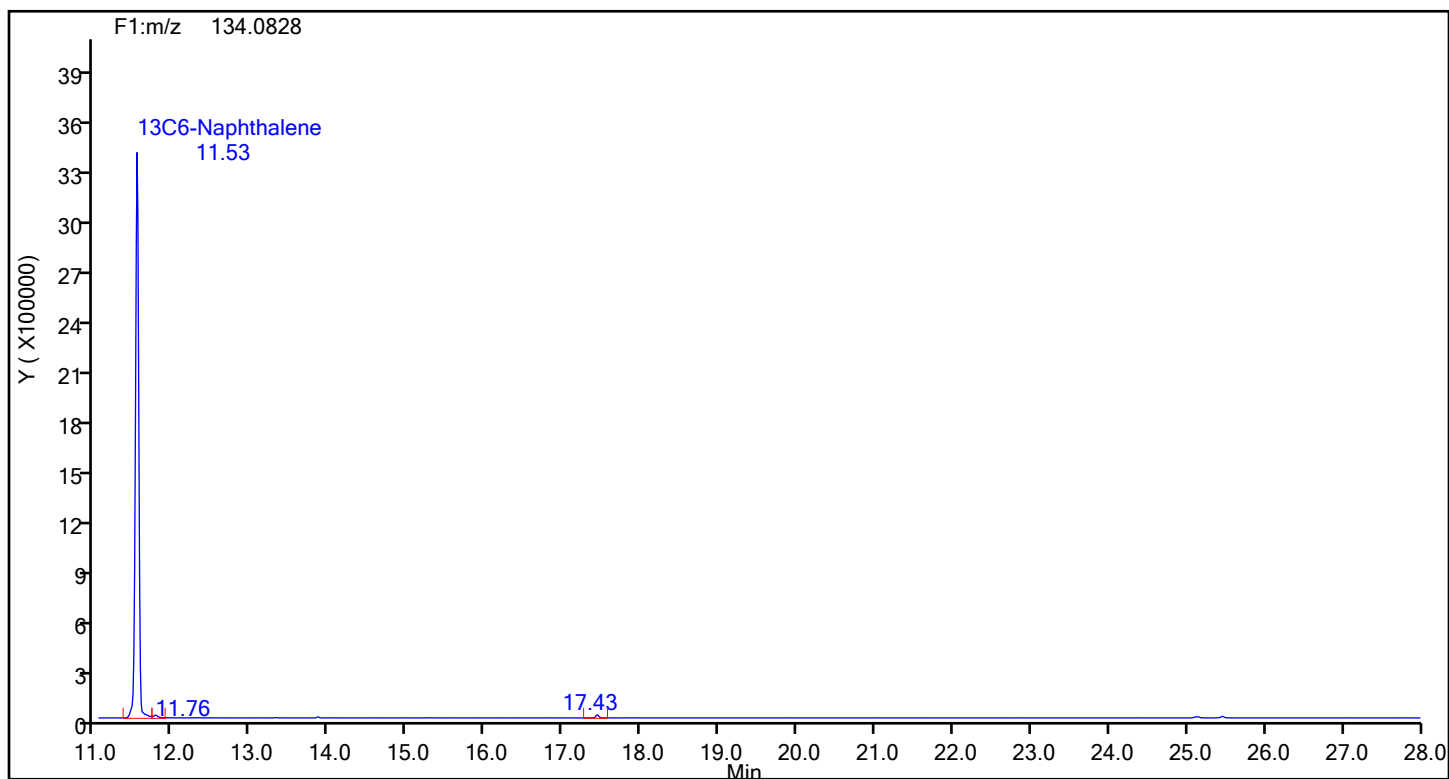


## Eurofins Knoxville

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Anthracin-d10

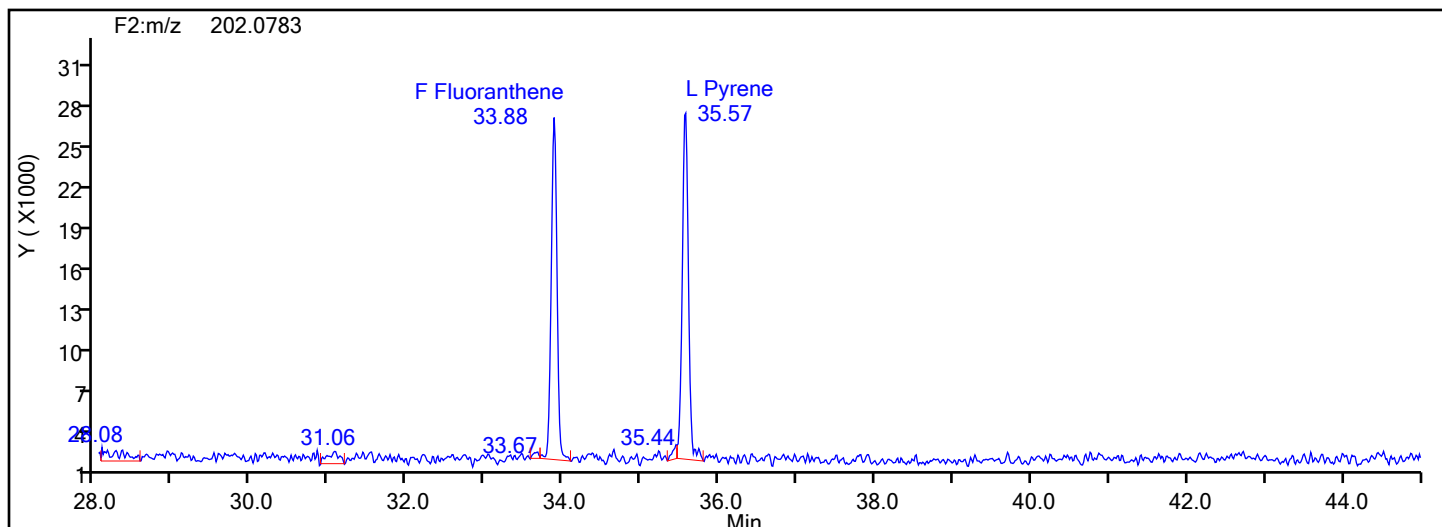


## Anthracin-d10 Standards

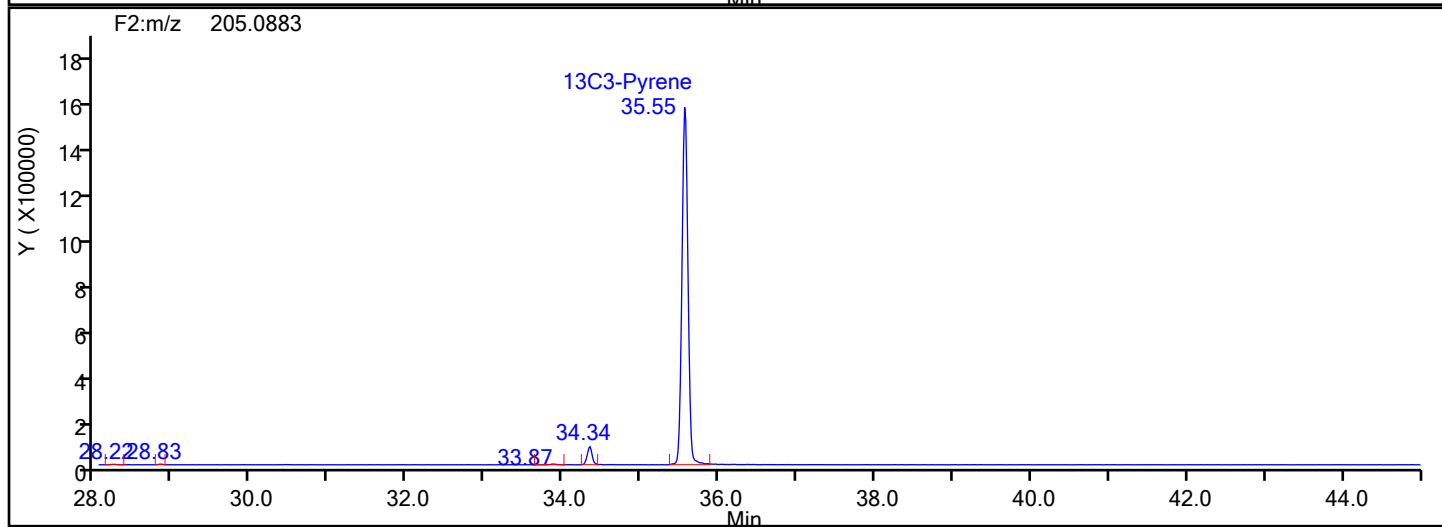
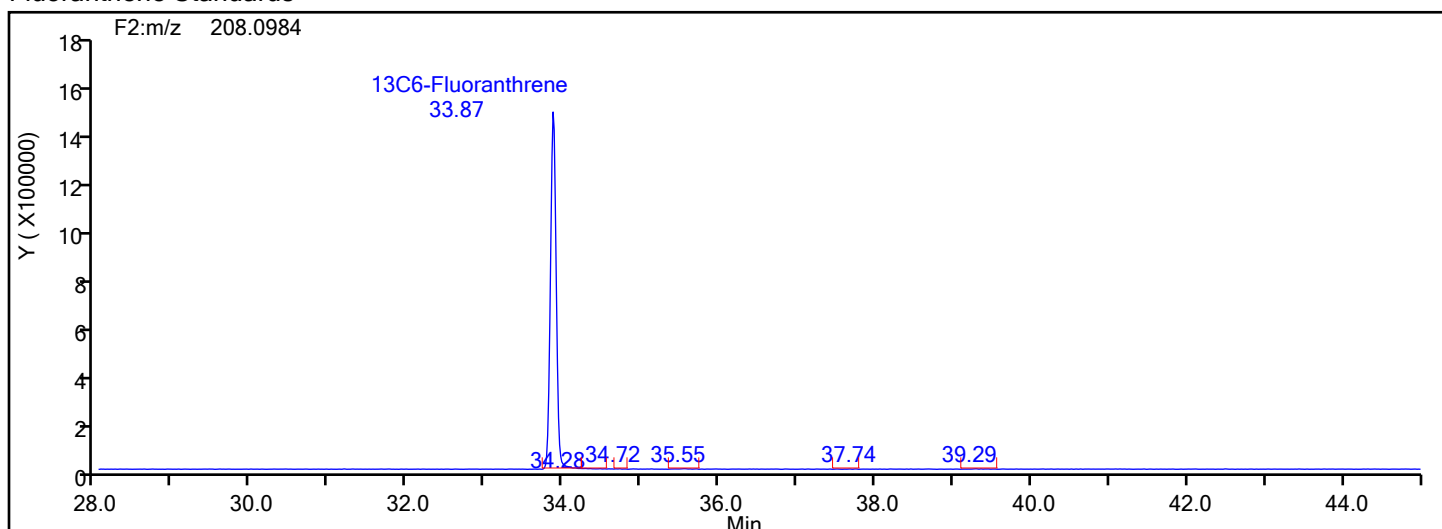


## Eurofins Knoxville

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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



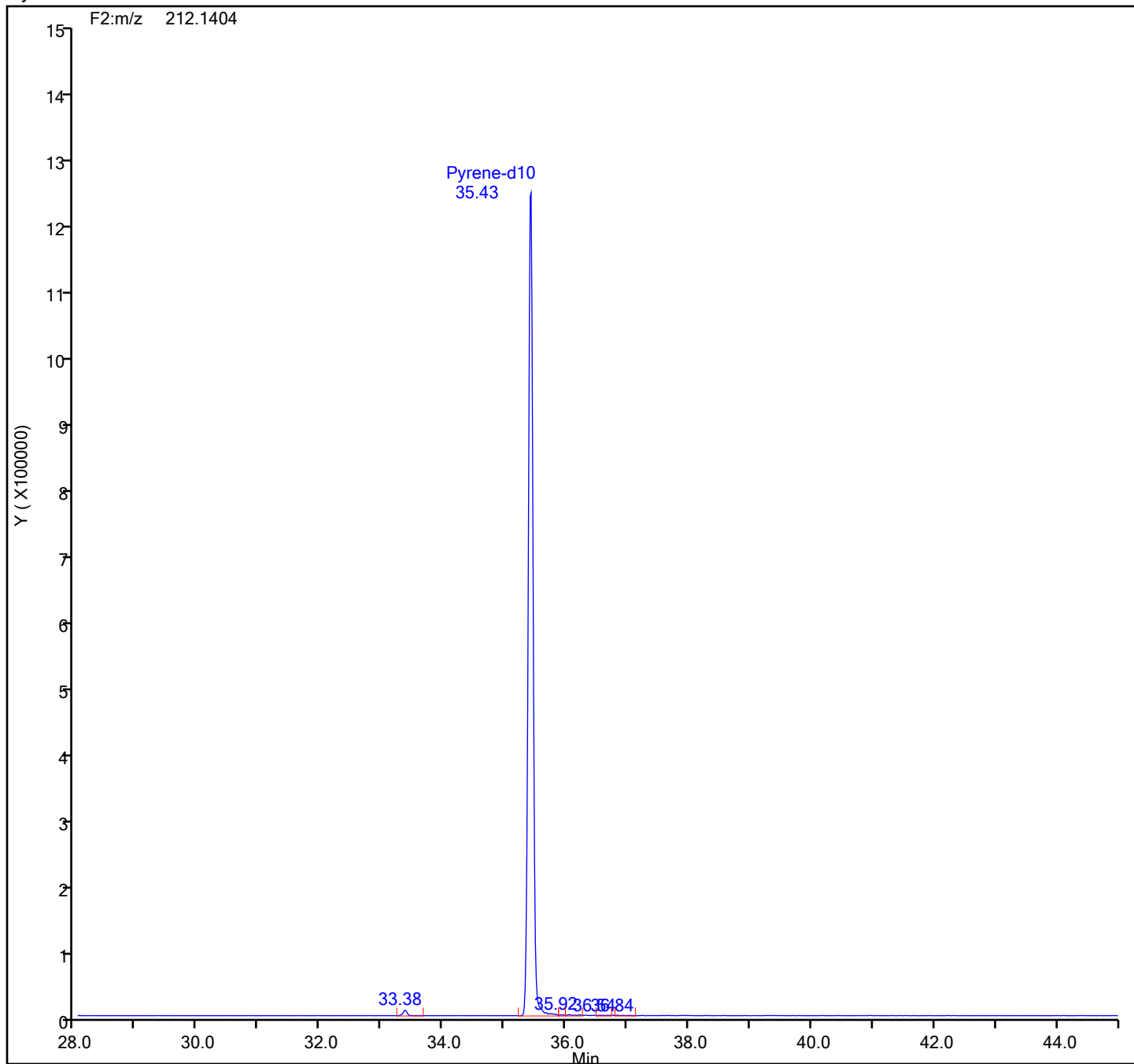
## Fluoranthene Standards



## Eurofins Knoxville

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Worklist#: 87843 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

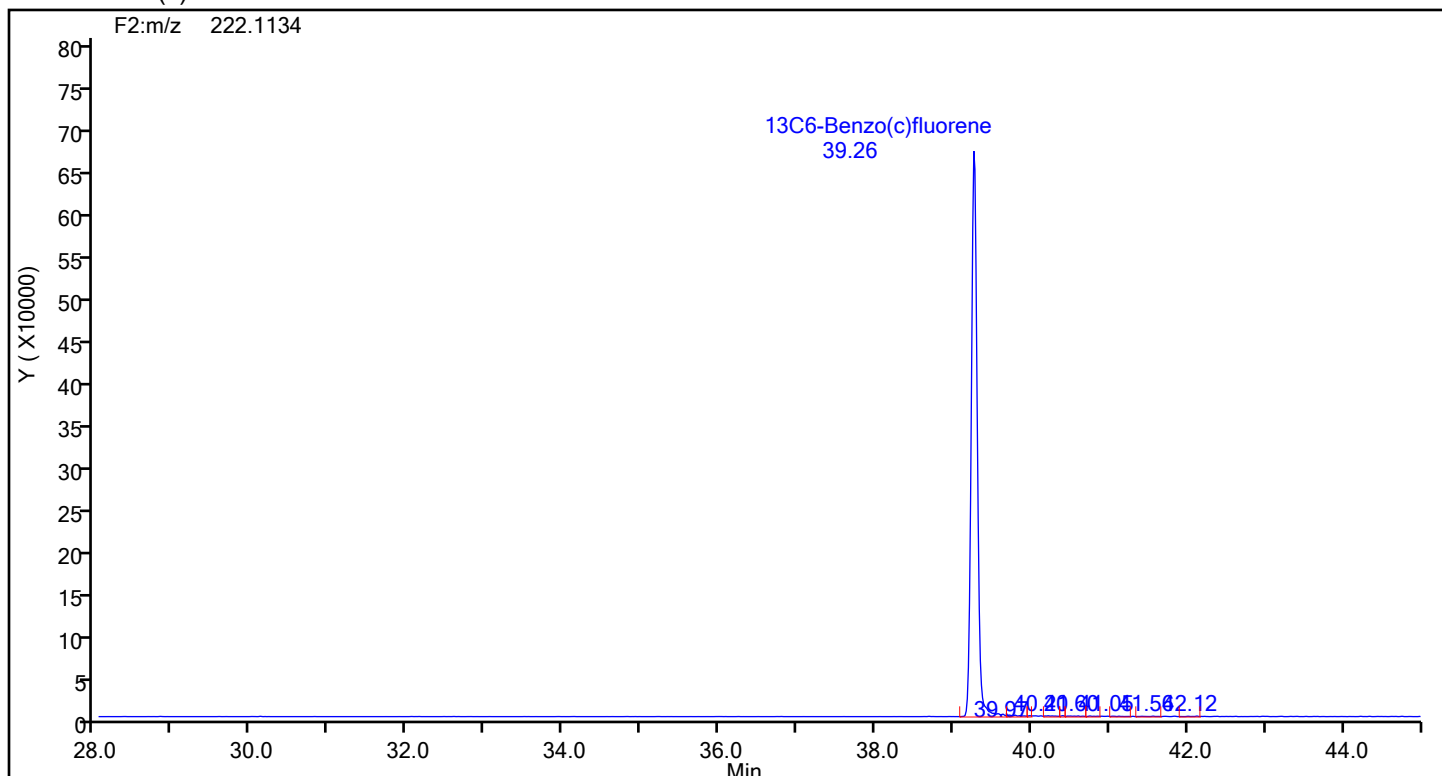
## Pyrene-d10 Standards



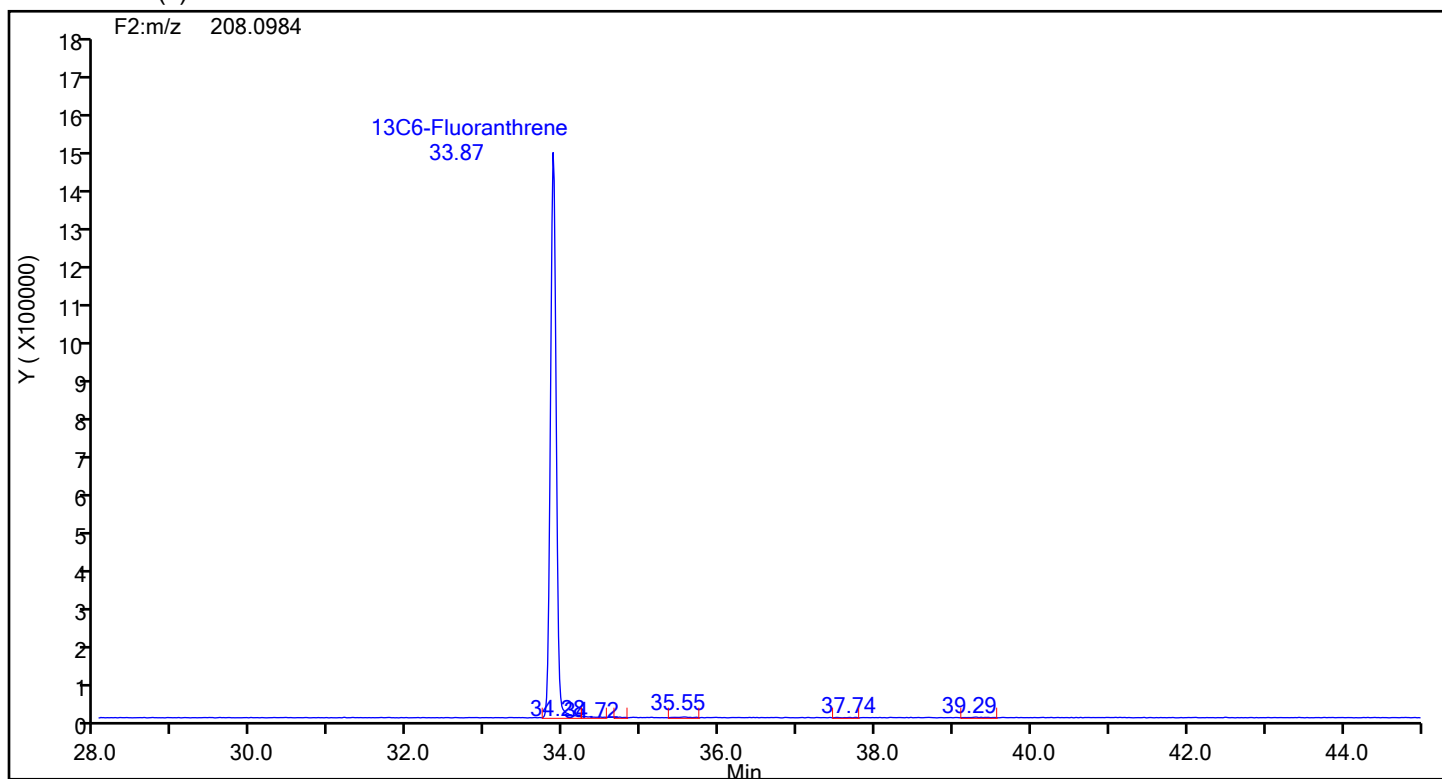
## Eurofins Knoxville

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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 87843 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



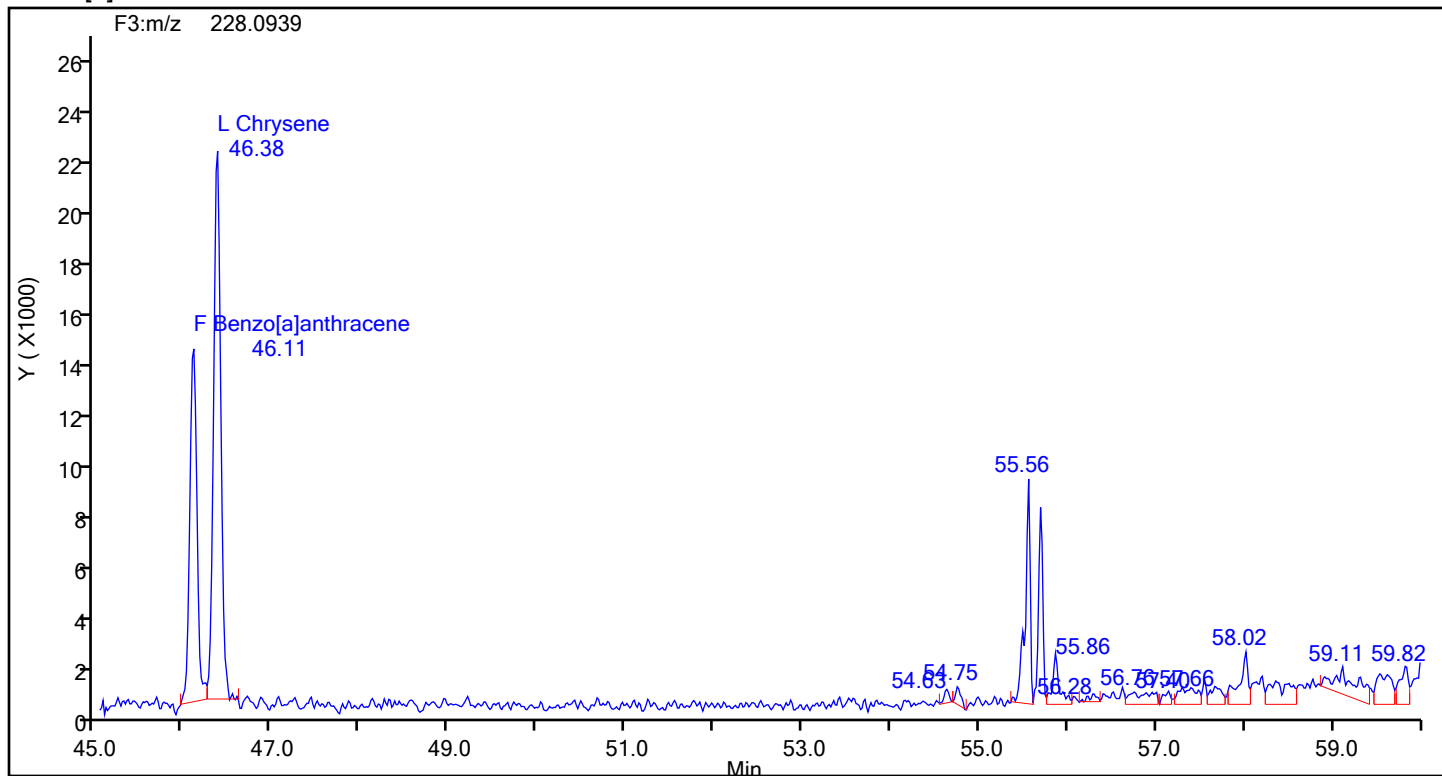
## 13C6-Benzo(c)fluorene Standards



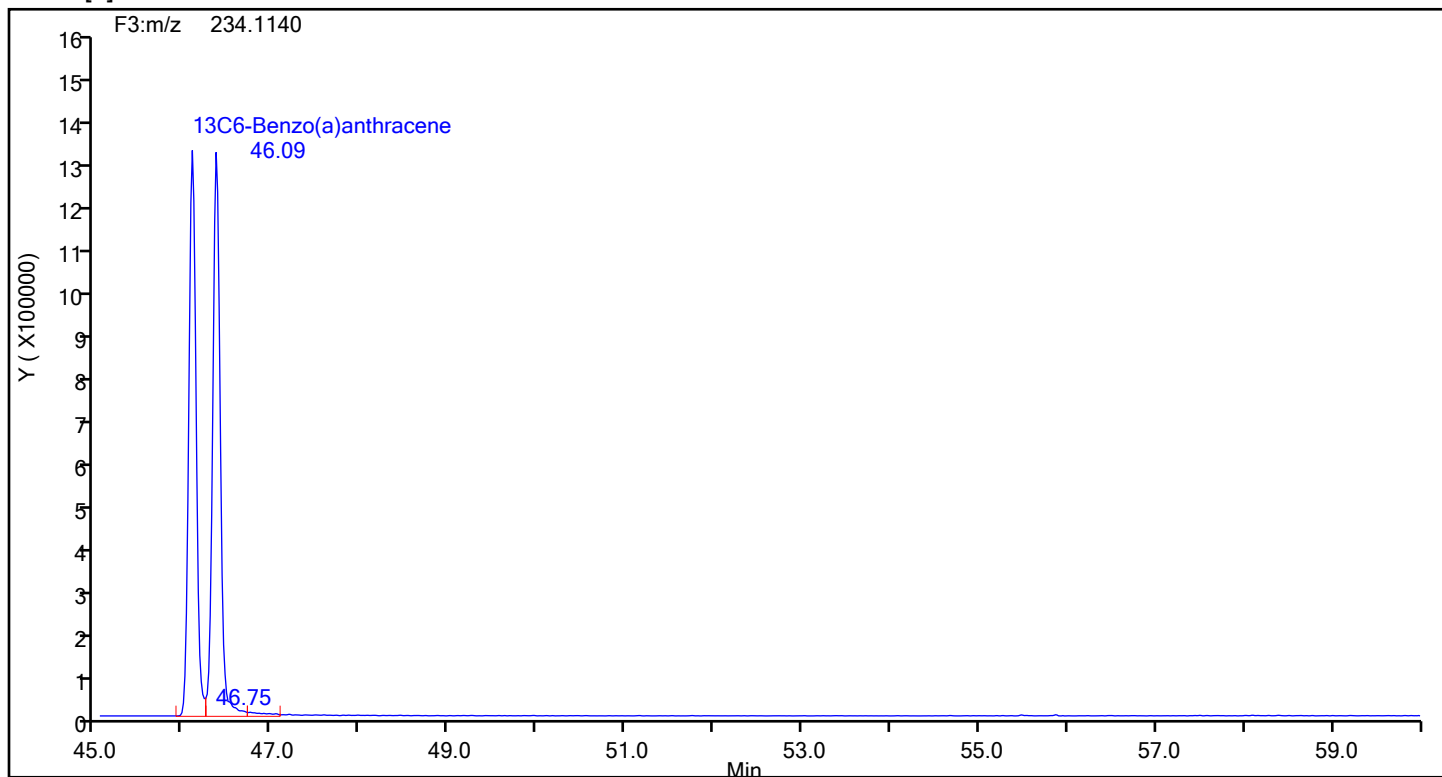
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



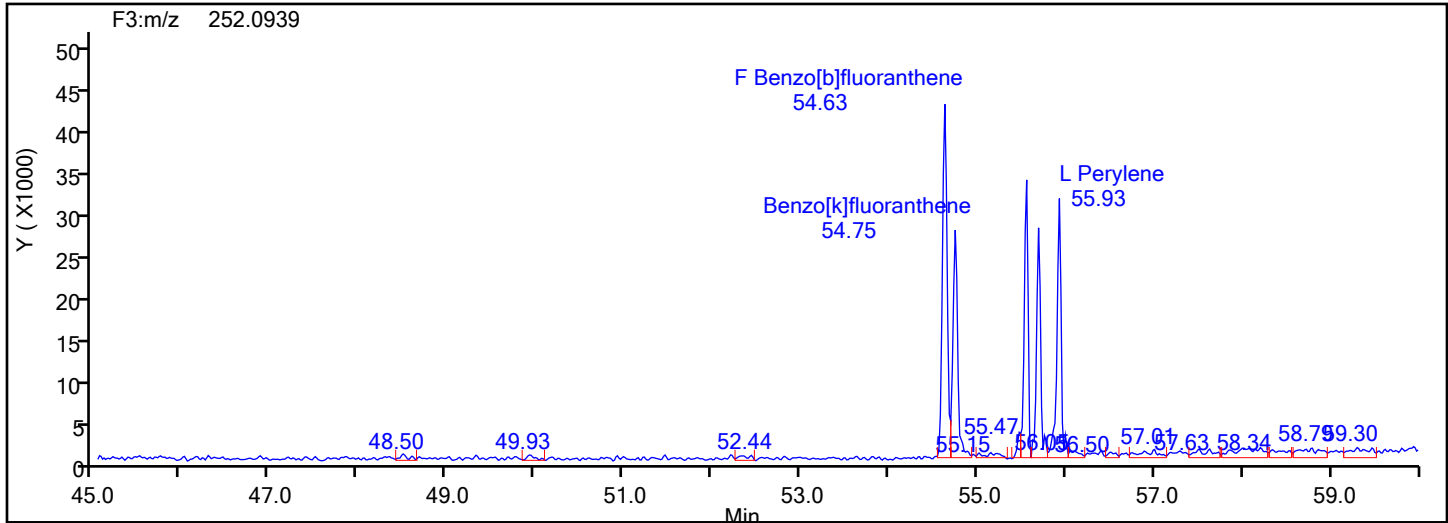
## Benzo[a]anthracene Standards



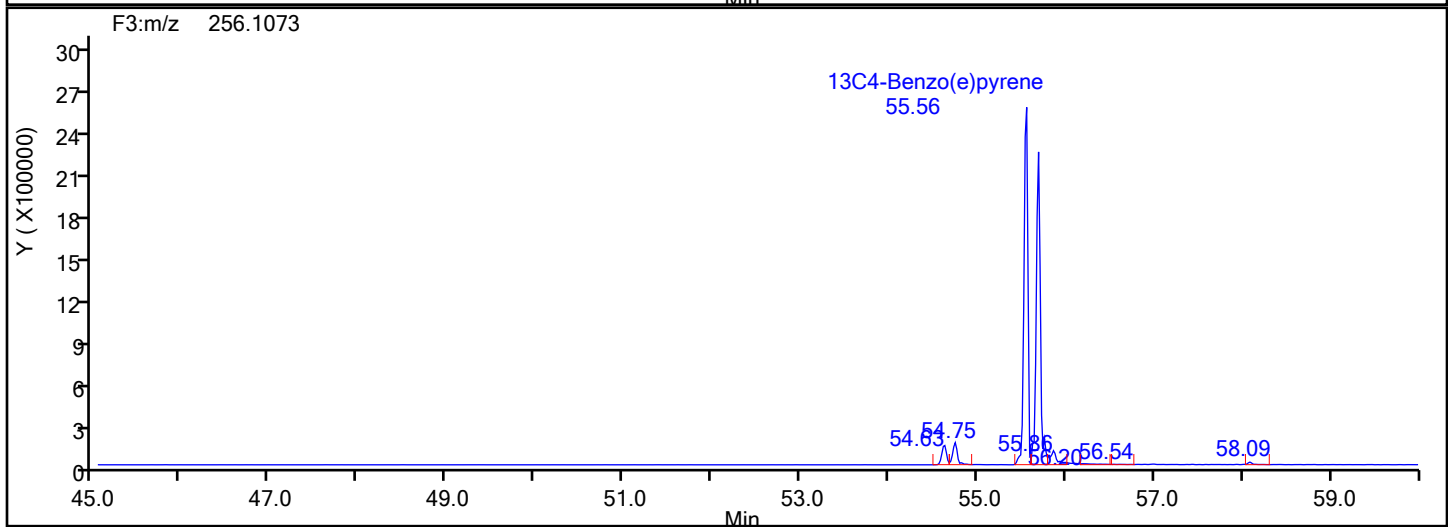
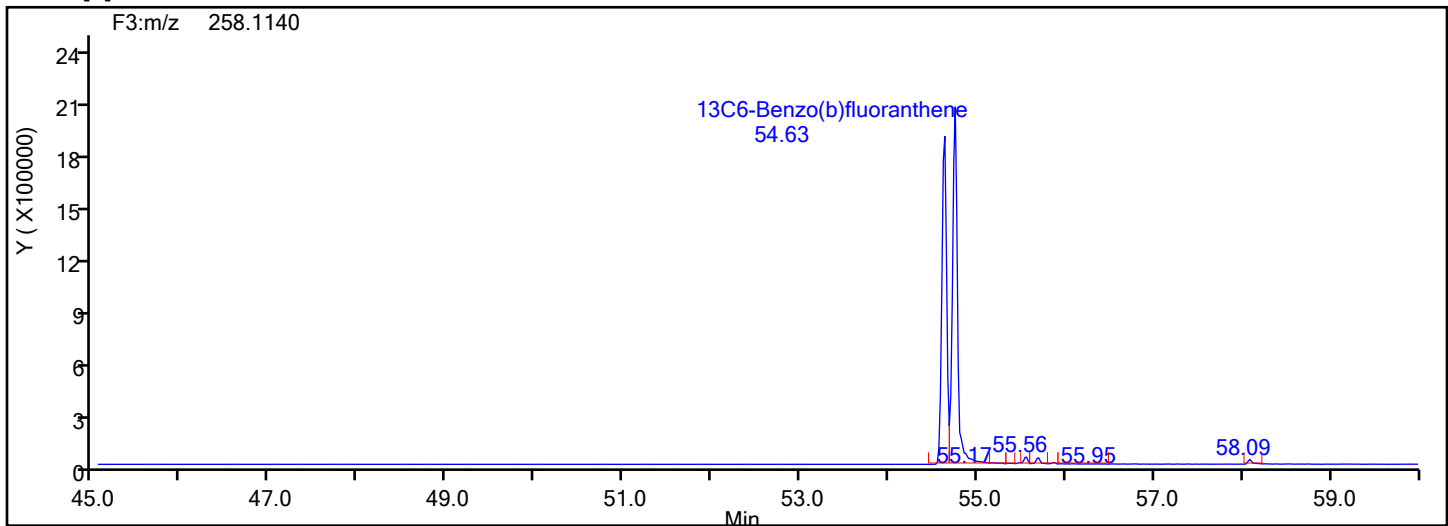
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



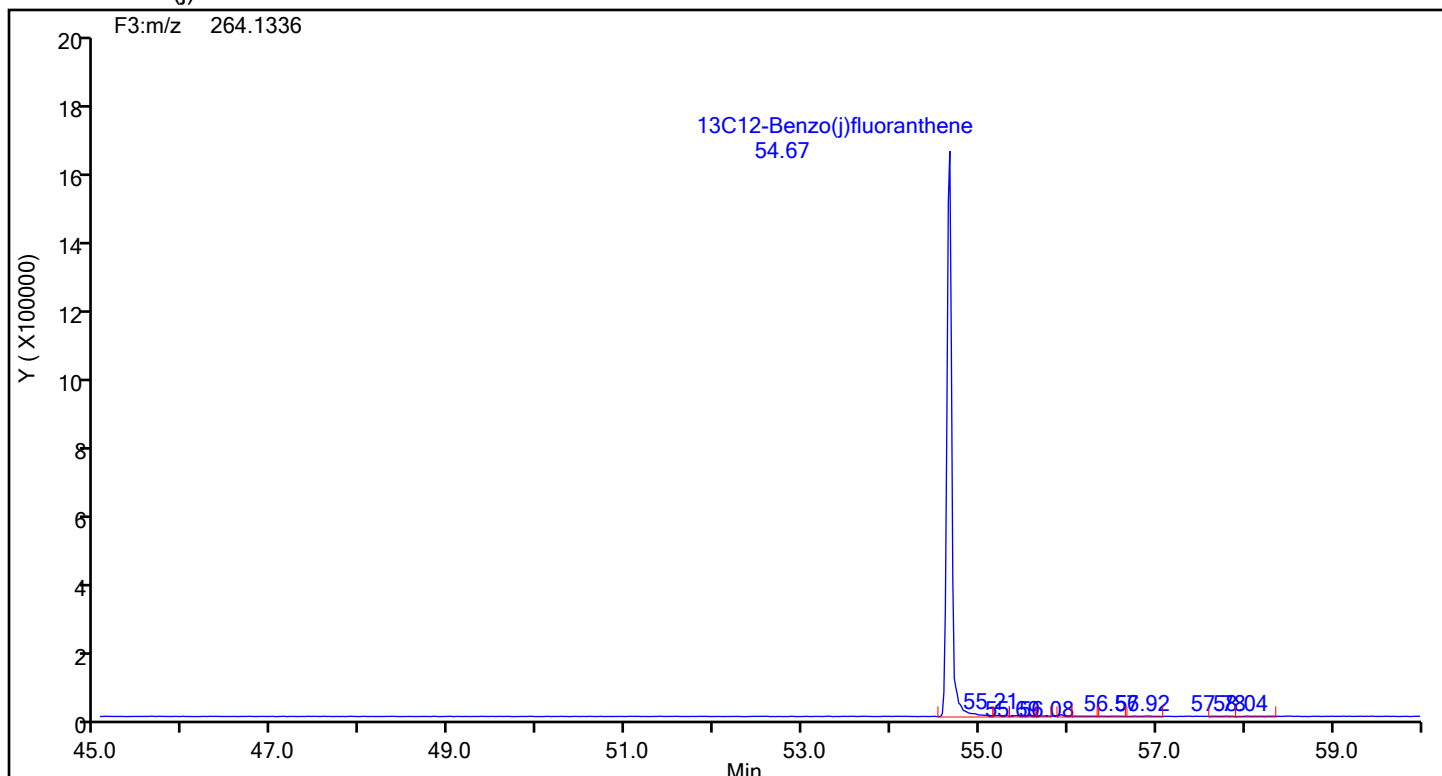
## Benzo[b]fluoranthene Standards



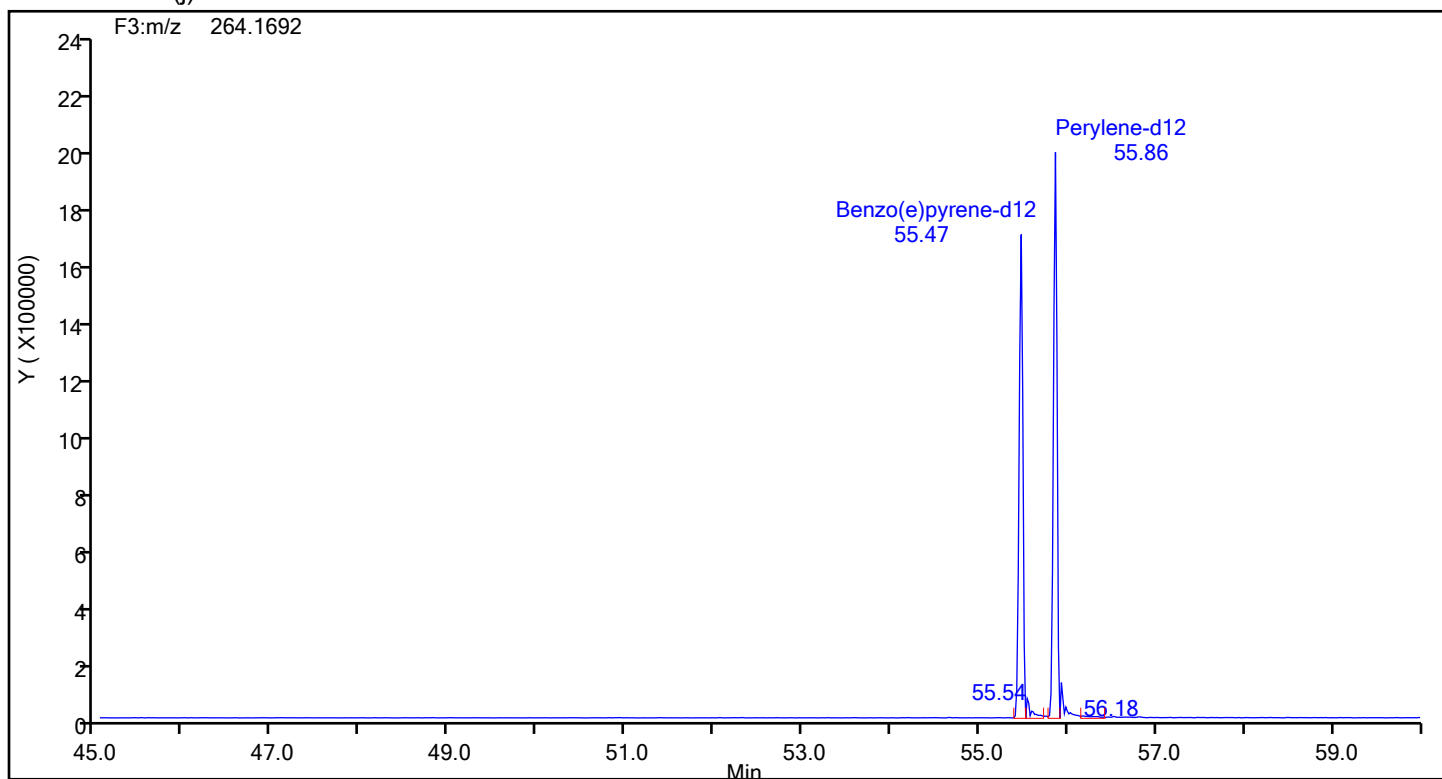
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene

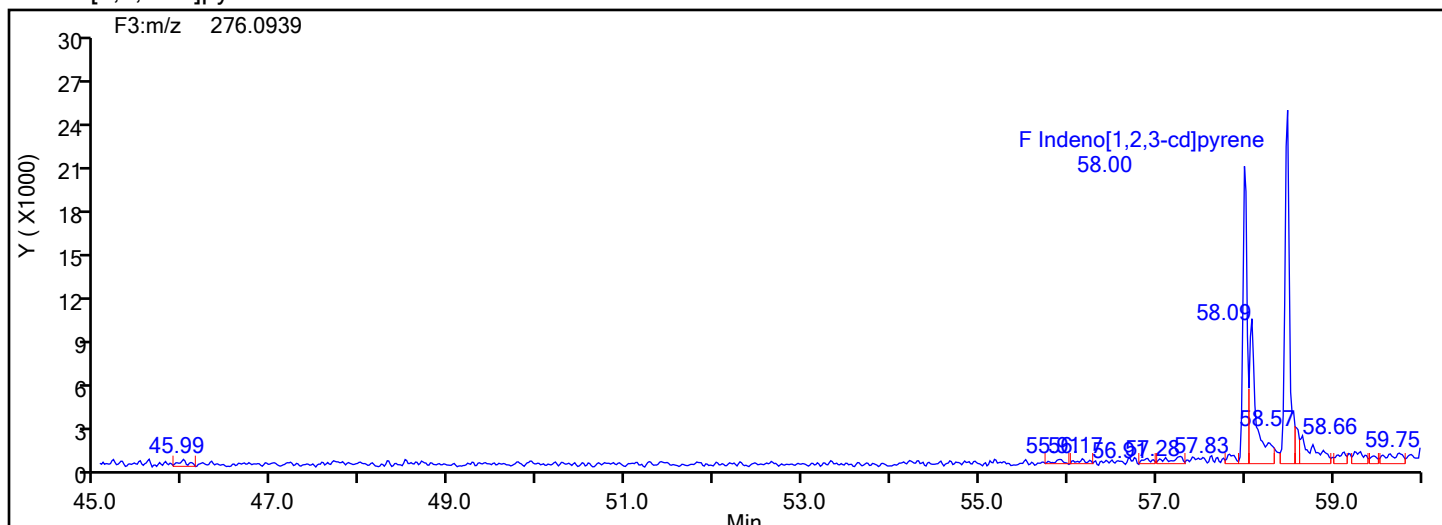


## 13C12-Benzo(j)fluoranthene Standards

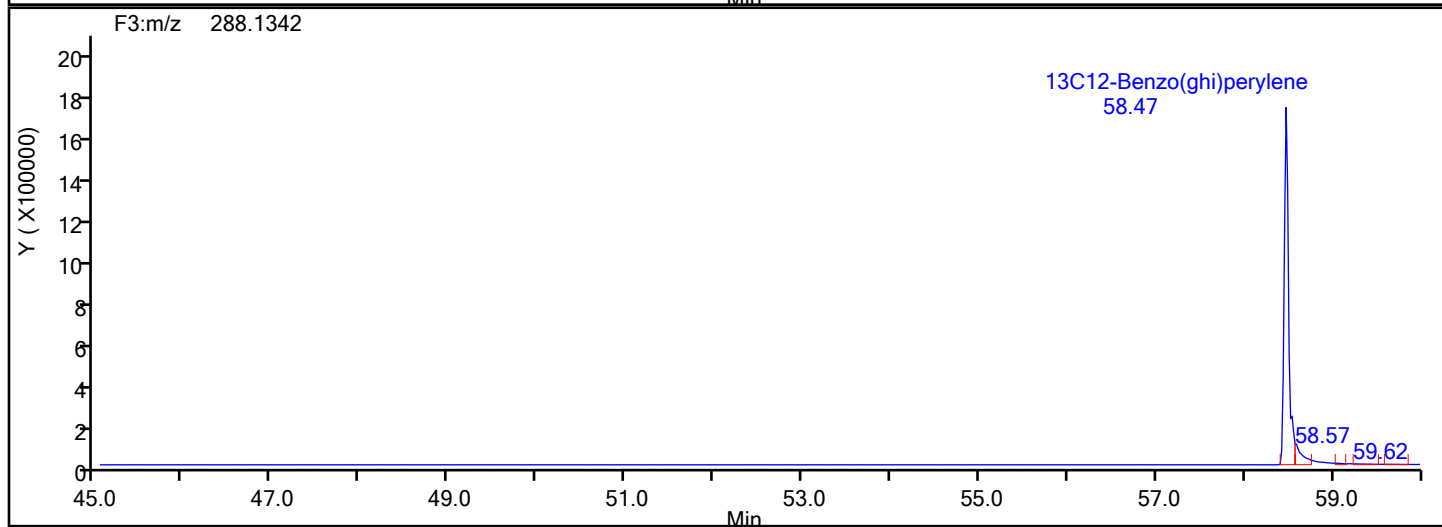
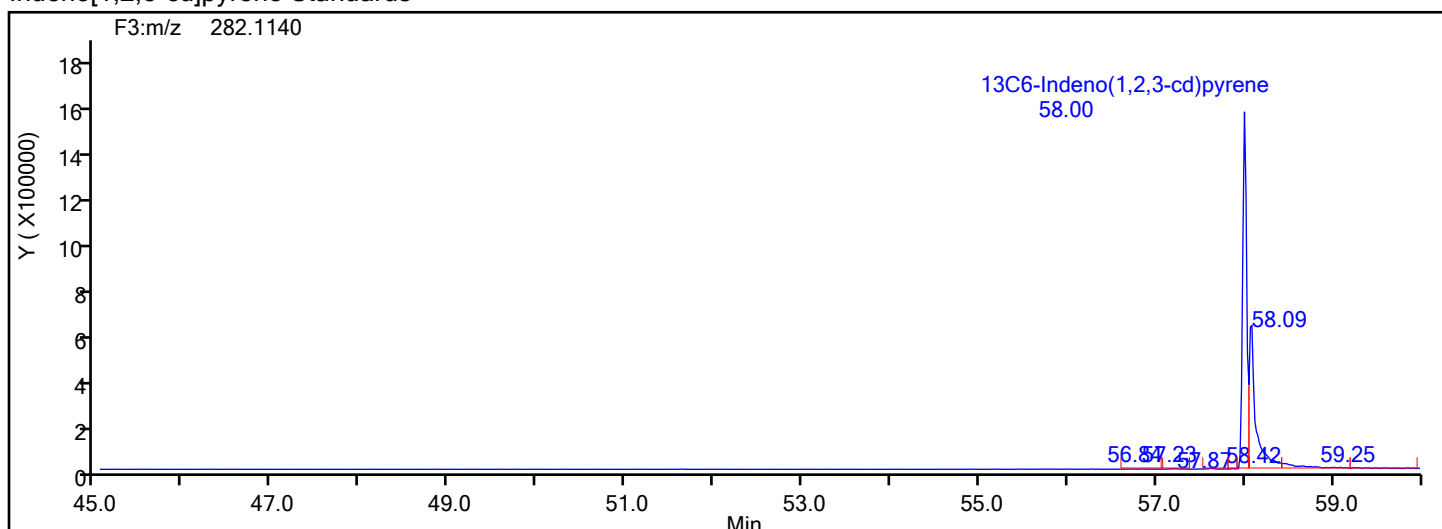


Eurofins Knoxville

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Client ID:			
Worklist#:	87843	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Indeno[1,2,3-cd]pyrene			



Indeno[1,2,3-cd]pyrene Standards





## Eurofins Knoxville

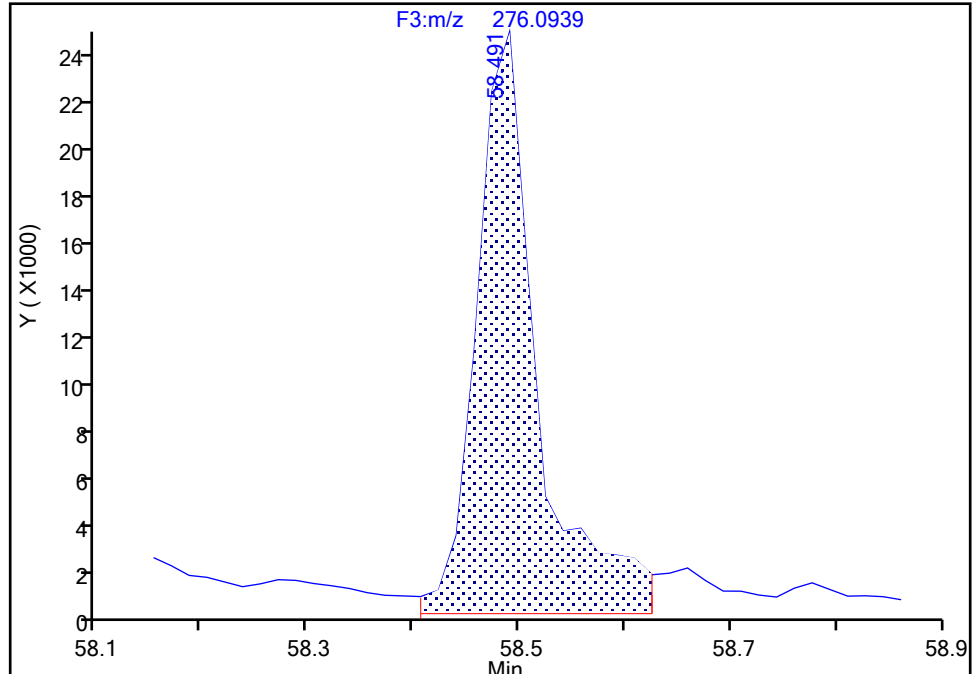
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Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

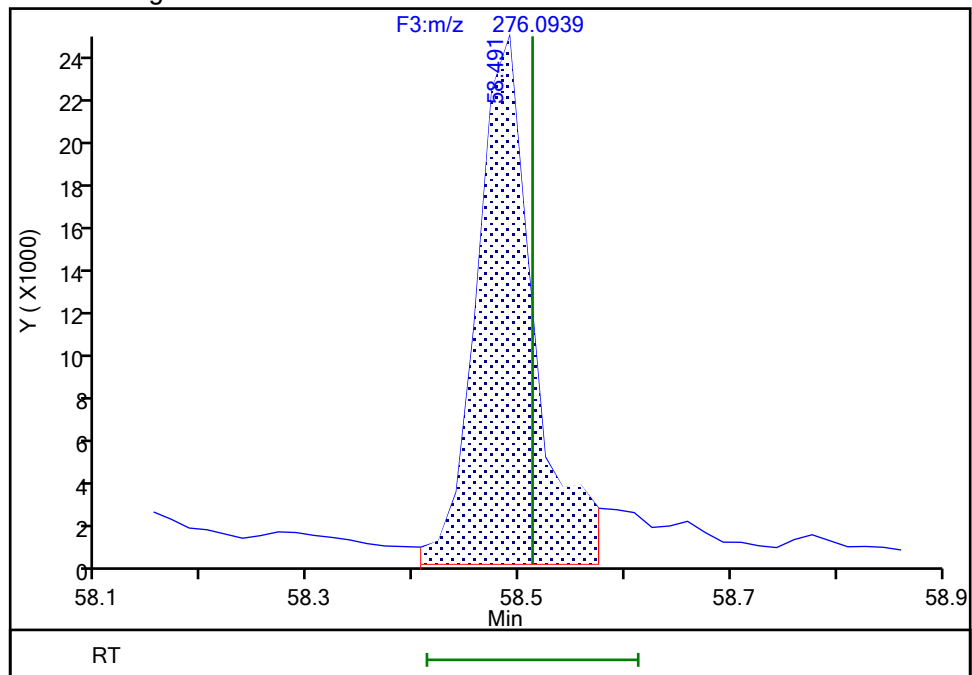
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Amount Units: pg/ul

## Processing Integration Results



RT: 58.49  
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Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:14:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

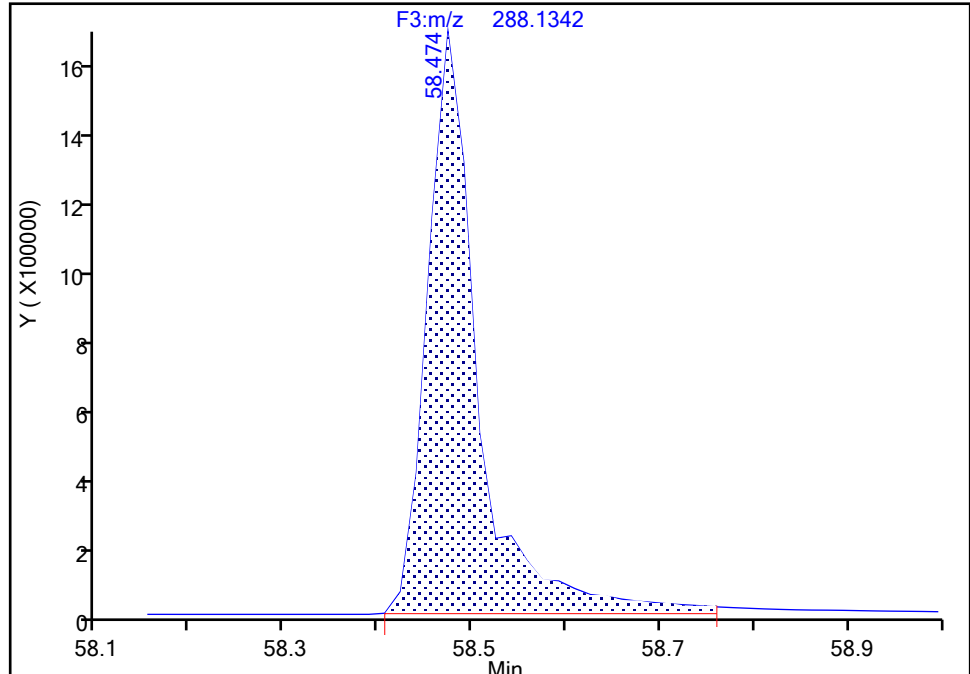
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Client ID:  
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Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C12-Benzo(ghi)perylene, CAS: 350820-11-0**

Signal: 1

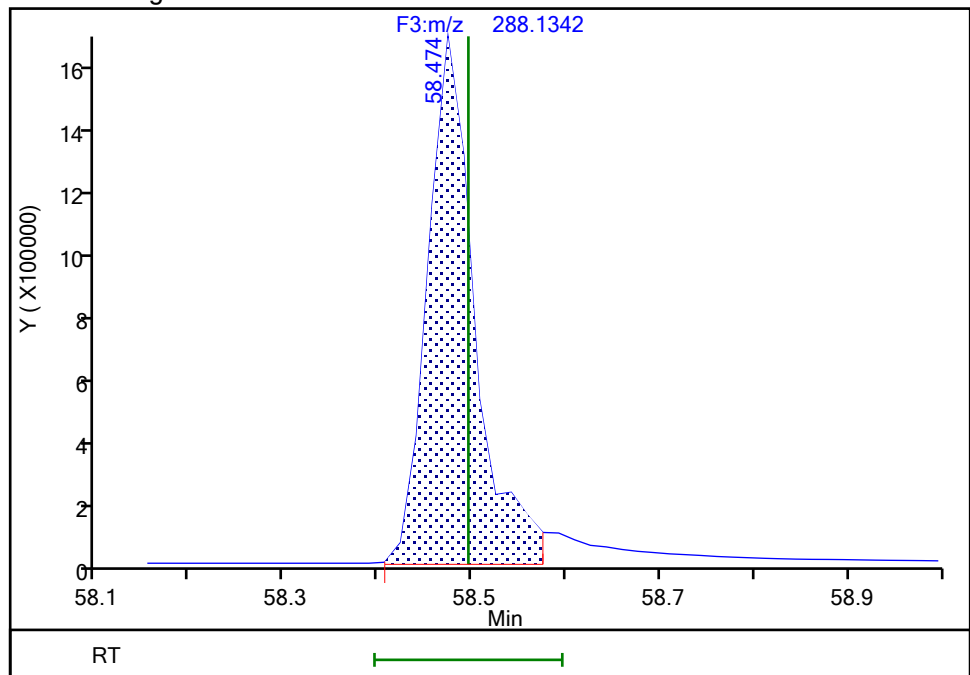
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## Processing Integration Results



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## Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:14:36 -04:00:00 (UTC)

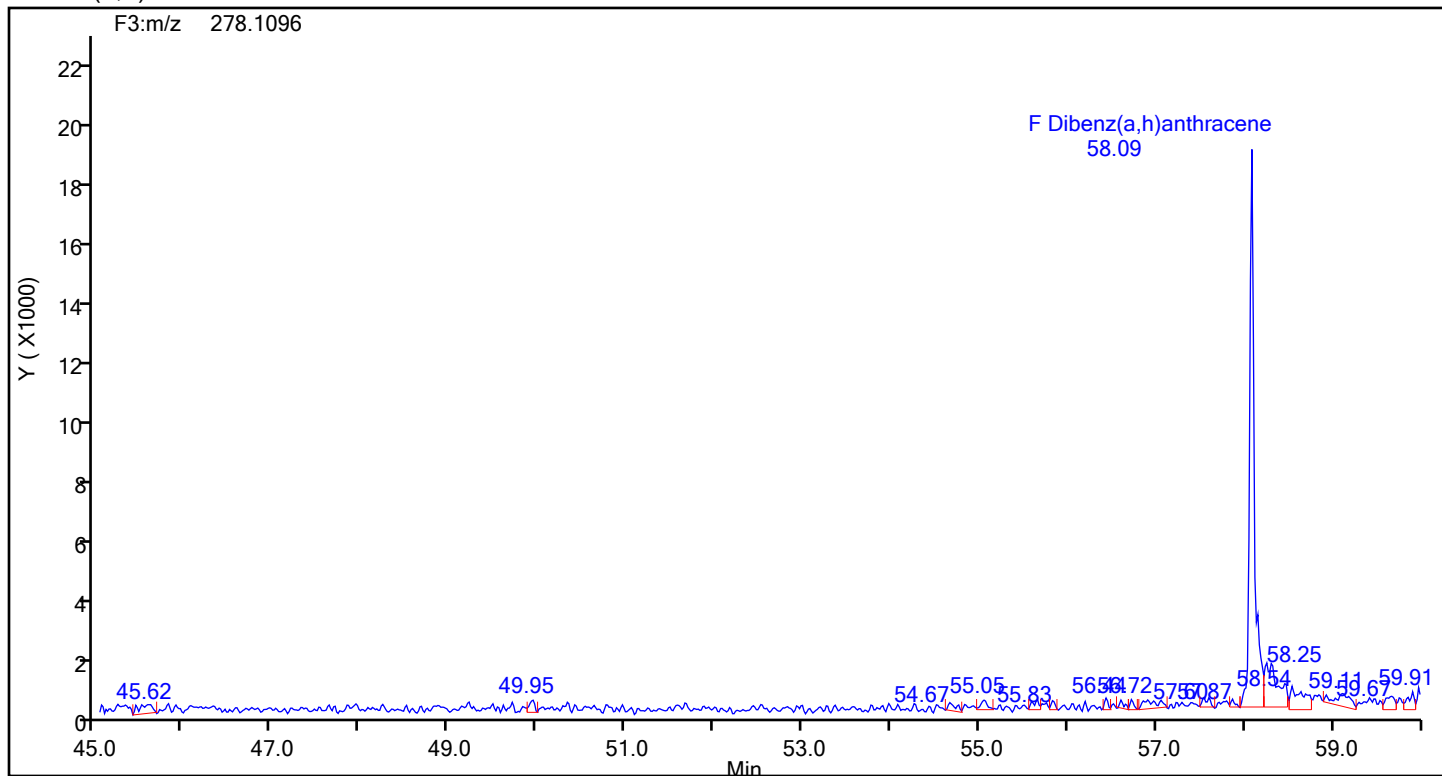
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

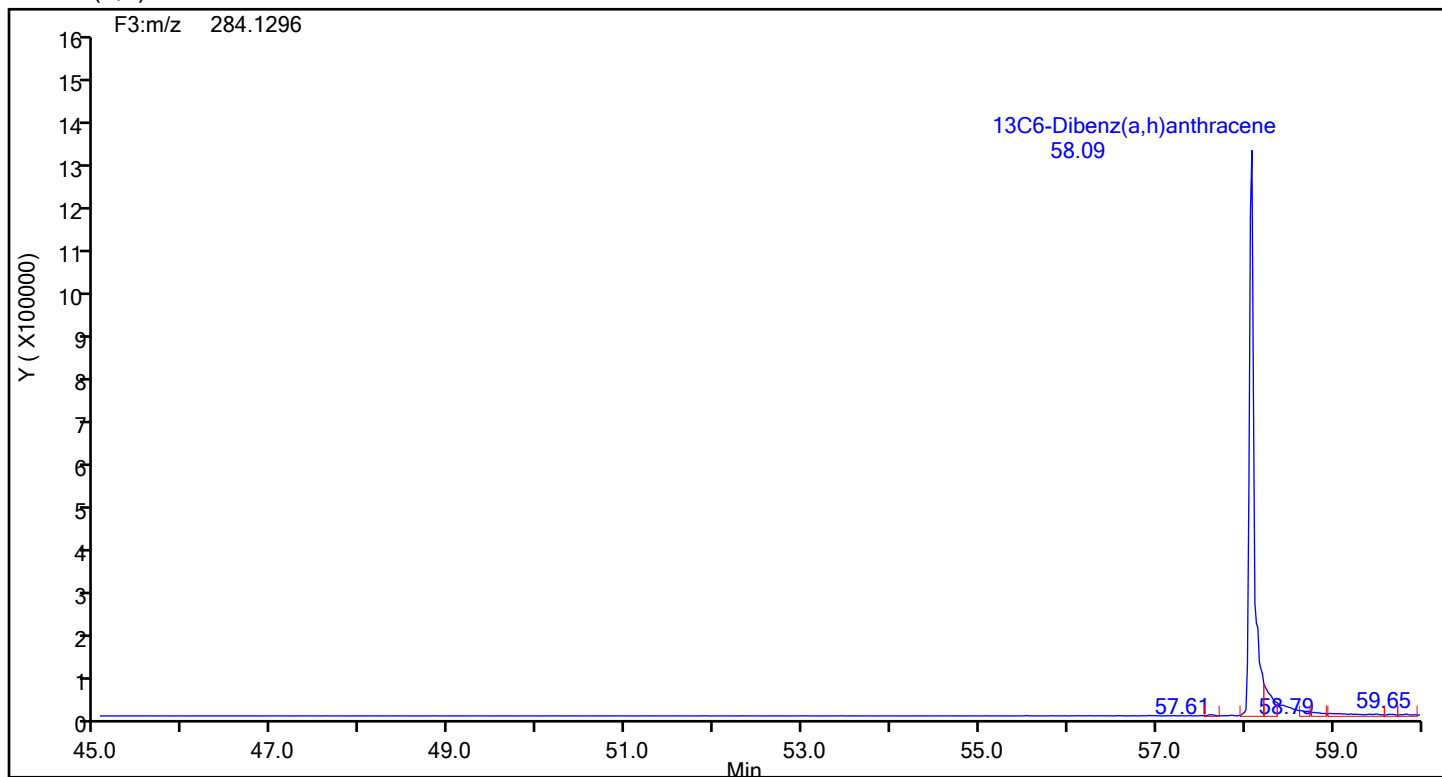
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

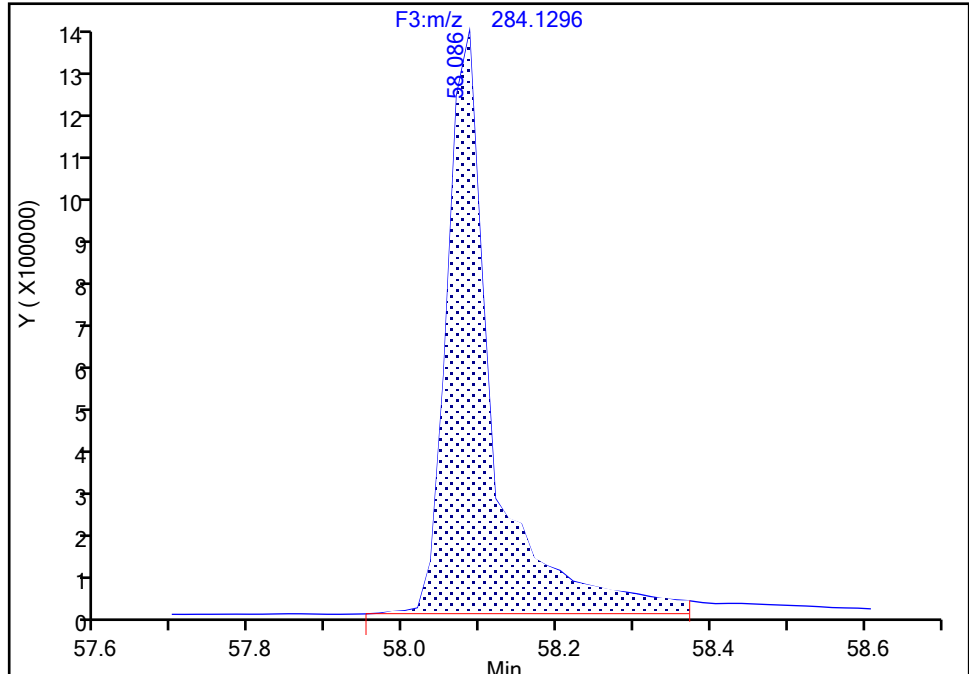
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Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Dibenz(a,h)anthracene, CAS: STL03360**

Signal: 1

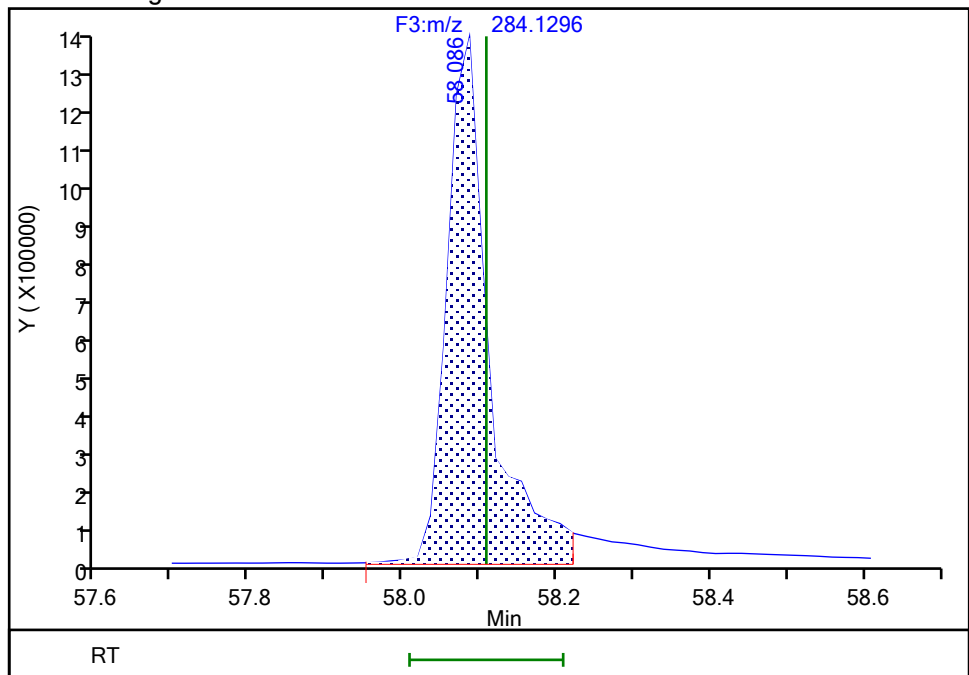
RT: 58.09  
Area: 5487366  
Amount: 100.0000  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.09  
Area: 5080699  
Amount: 95.134127  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:15:49 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
 Lims ID: IC L2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 19-Jun-2024 17:38:00 ALS Bottle#: 0 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033168-002  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Sublist: chrom-EPA\_23\_\_PAH\*sub1  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAAH ICAL  
 Last Update: 20-Jun-2024 09:51:35 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last Ical File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 19-Jun-2024 18:50:35

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	10224350		3.3746	101.7	101.7	0.003634	0.003634	102	
Naphthalene	11:33	1289701		1.2893	9.784	9.784	0.0238	0.0238	489	
D 13C6-2-Methylnaphthalene	13:52	4888063		1.6031	102.4	102.4	0.000734	0.000734	102	
2-Methylnaphthalene	13:53	566769		1.2786	9.069	9.069	0.0258	0.0258	453	
D 13C6-Acenaphthylene	16:45	4790245		1.6520	97.3	97.3	0.002078	0.002078	97.34	
Acenaphthylene	16:45	133174		2.3661	2.014	2.014	0.0260	0.0260	101	
* Acenaphthene-d10	17:20	2978908		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:27	2794458		0.9792	95.8	95.8	0.002705	0.002705	95.80	
Acenaphthene	17:27	191300		1.2697	5.392	5.392	0.0282	0.0282	270	
D 13C6-Fluorene	19:45	2550369		0.8898	96.2	96.2	0.000551	0.000551	96.21	
Fluorene	19:45	116608		1.2532	3.649	3.649	0.0384	0.0384	182	
D 13C6-Phenanthrene	25:08	3753474		0.5724	92.4	92.4	0.001945	0.001945	92.38	
Phenanthrene	25:08	212656		1.1044	5.130	5.130	0.0373	0.0373	256	
\$ Anthracin-d10	25:21	2916395		0.4257	96.5	96.5	0.001743	0.001743	96.52	
D 13C6-Anthracene	25:28	2927417		0.4523	91.2	91.2	0.002461	0.002461	91.18	
Anthracene	25:28	91204		1.3586	2.293	2.293	0.0413	0.0413	115	
D 13C6-Fluoranthrene	33:53	7938309		1.1994	93.2	93.2	0.0223	0.0223	93.25	
Fluoranthrene	33:54	290190		1.1513	3.175	3.175	0.0156	0.0156	159	
* Pyrene-d10	35:27	7097800		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:35	8994056		1.3512	93.8	93.8	0.0147	0.0147	93.78	
Pyrene	35:35	274746		1.0652	2.868	2.868	0.0156	0.0156	143	
\$ 13C6-Benzo(c)fluorene	39:18	3790719		0.5136	104.0	104.0	0.003612	0.003612	104	
D 13C6-Benzo(a)anthracene	46:08	7671524		1.5189	100.4	100.4	0.0158	0.0158	100	
Benzo[a]anthracene	46:08	162720		0.9739	2.178	2.178	0.0170	0.0170	109	
D 13C6-Chrysene	46:24	8190879		1.6287	100.0	100.0	0.0147	0.0147	100	
Chrysene	46:24	225899		0.9815	2.810	2.810	0.0162	0.0162	141	
D 13C6-Benzo(b)fluoranthene	54:40	6995957		1.4621	95.2	95.2	0.000890	0.000890	95.16	
Benzo[b]fluoranthene	54:40	246308		1.1249	3.130	3.130	0.0109	0.0109	156	
\$ 13C12-Benzo(j)fluoranthene	54:42	6569551		1.3558	96.4	96.4	0.0171	0.0171	96.36	
D 13C6-Benzo(k)fluoranthene	54:47	8172987		1.7507	92.8	92.8	0.000743	0.000743	92.85	
Benzo[k]fluoranthene	54:47	219658		1.1271	2.385	2.385	0.009644	0.009644	119	
* Benzo(e)pyrene-d12	55:30	5028172		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:35	7870944		1.6368	95.6	95.6	0.0115	0.0115	95.63	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	196775		1.0013	2.497	2.497	0.008899	0.008899	125	
Benzo[a]pyrene	55:44	178284		1.1130	2.174	2.174	0.009155	0.009155	109	
D 13C4-Benzo(a)pyrene	55:44	7368833		1.5508	94.5	94.5	0.0121	0.0121	94.50	
D Perylene-d12	55:54	5811383		1.1917	97.0	97.0	0.0176	0.0176	96.99	
Perylene	55:58	186178		1.4307	2.239	2.239	0.007678	0.007678	112	
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	5418391		1.0218	105.5	105.5	0.0114	0.0114	105	M
Indeno[1,2,3-cd]pyrene	58:02	130664		1.1249	2.144	2.144	0.008694	0.008694	107	
D 13C6-Dibenz(a,h)anthracene	58:07	5414078		1.0553	102.0	102.0	0.005158	0.005158	102	M
Dibenz(a,h)anthracene	58:07	131743		1.1314	2.151	2.151	0.007222	0.007222	108	
D 13C12-Benzo(ghi)perylene	58:30	6532018		1.2749	101.9	101.9	0.005893	0.005893	102	M
Benzo[g,h,i]perylene	58:31	187407		1.2838	2.235	2.235	0.006936	0.006936	112	M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS2\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Lims ID: IC L2  
Client ID:  
Sample Type: IC Calib Level: 2  
Inject. Date: 19-Jun-2024 17:38:00 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-002  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 20-Jun-2024 09:51:35 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 19-Jun-2024 18:50:35

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	0	0.667	10224350	3453826	50	125	69077		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	1289701	411395	425	1062	968		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	0	0.800	4888063	2246421	5	12	449284		
2-Methylnaphthalene											
142.0783	13:53	13:53	0	1.001	566769	245185	296	740	828		
13C6-Acenaphthylene											
158.0828	16:45	16:45	0	0.967	4790245	1639631	14	35	117117		
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	133174	47551	238	595	200		
Acenaphthene-d10											
164.1404	17:20	17:20	-1		2978908	1019441	1	2	1019441		
13C6-Acenaphthene											
160.0984	17:27	17:27	0	1.007	2794458	967942	11	27	87995		
Acenaphthene											
154.0783	17:27	17:27	0	1.000	191300	60528	139	347	435		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.140	2550369	737805	2	5	368903		
Fluorene											
166.0783	19:45	19:45	0	1.000	116608	34760	142	355	245		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	3753474	874310	6	15	145718		
Phenanthrene											
178.0783	25:08	25:08	0	1.000	212656	49863	144	360	346		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:21	25:21	0	0.715	2916395	679015	4	10	169754		
13C6-Anthracene											
184.0984	25:28	25:28	0	0.718	2927417	641240	6	15	106873		
Anthracene											
178.0783	25:28	25:28	0	1.000	91204	20584	144	360	143		
13C6-Fluoranthrene											
208.0984	33:53	33:54	-1	0.956	7938309	1512092	144	360	10501		
Fluoranthene											
202.0783	33:54	33:54	0	1.000	290190	55341	109	272	508		
Pyrene-d10											
212.1404	35:27	35:27	0		7097800	1347492	10	25	134749		
13C3-Pyrene											
205.0883	35:35	35:35	0	1.004	8994056	1637719	107	267	15306		
Pyrene											
202.0783	35:35	35:35	0	1.000	274746	51021	109	272	468		
13C6-Benzo(c)fluorene											
222.1134	39:18	39:18	0	0.708	3790719	700534	10	25	70053		
13C6-Benzo(a)anthracene											
234.1140	46:08	46:07	0	1.301	7671524	1301970	162	405	8037		
Benzo[a]anthracene											
228.0939	46:08	46:07	0	1.000	162720	26859	86	215	312		
13C6-Chrysene											
234.1140	46:24	46:24	0	1.309	8190879	1355570	162	405	8368		
Chrysene											
228.0939	46:24	46:25	-1	1.000	225899	38492	86	215	448		
13C6-Benzo(b)fluoranthene											
258.1140	54:40	54:40	0	0.985	6995957	1815225	9	22	201692		
Benzo[b]fluoranthene											
252.0939	54:40	54:40	0	1.000	246308	66968	89	222	752		
13C12-Benzo(j)fluoranthene											
264.1336	54:42	54:42	0	0.985	6569551	1634529	157	392	10411		
13C6-Benzo(k)fluoranthene											
258.1140	54:47	54:47	0	0.987	8172987	2042470	9	22	226941		
Benzo[k]fluoranthene											
252.0939	54:47	54:47	0	1.000	219658	52976	89	222	595		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		5028172	1690356	142	355	11904		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	0	1.002	7870944	2491423	127	317	19618		
Benzo[e]pyrene											
252.0939	55:35	55:35	0	1.000	196775	66245	89	222	744		
Benzo[a]pyrene											
252.0939	55:44	55:44	0	1.000	178284	53714	89	222	604		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:44	55:44	0	1.004	7368833	2178757	127	317	17156		
Perylene-d12											
264.1692	55:54	55:54	0	1.007	5811383	2020986	142	355	14232		
Perylene											
252.0939	55:58	55:58	0	1.001	186178	59542	89	222	669		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:02	0	1.046	5418391	1635908	79	197	20708		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:02	58:03	-1	1.000	130664	41002	64	160	641		
13C6-Dibenz(a,h)anthracene											
284.1296	58:07	58:07	0	1.047	5414078	1370824	37	92	37049		M
Dibenz(a,h)anthracene											
278.1096	58:07	58:07	0	1.000	131743	34780	45	112	773		
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	6532018	1796950	51	127	35234		M
Benzo[g,h,i]perylene											
276.0939	58:31	58:31	0	1.000	187407	47113	64	160	736		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS2\_00002

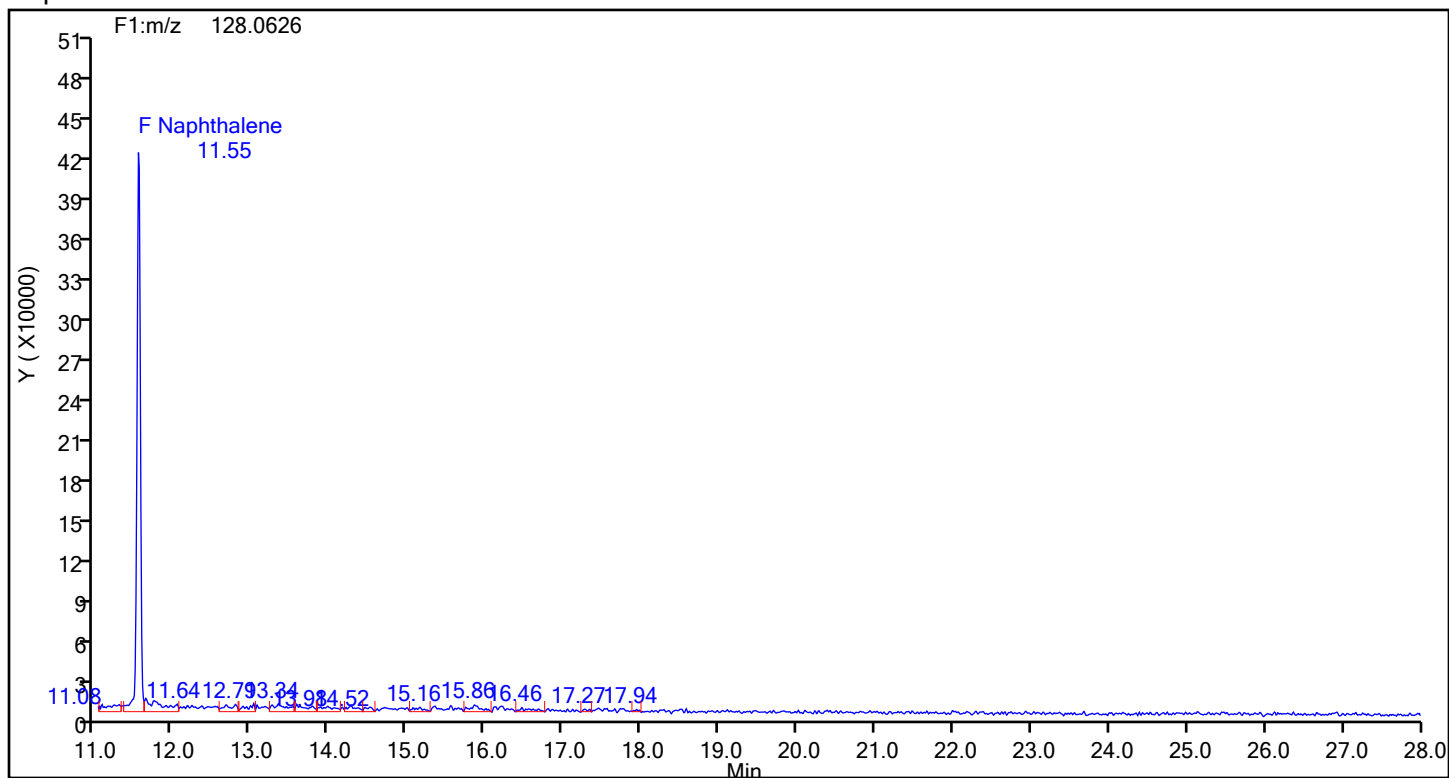
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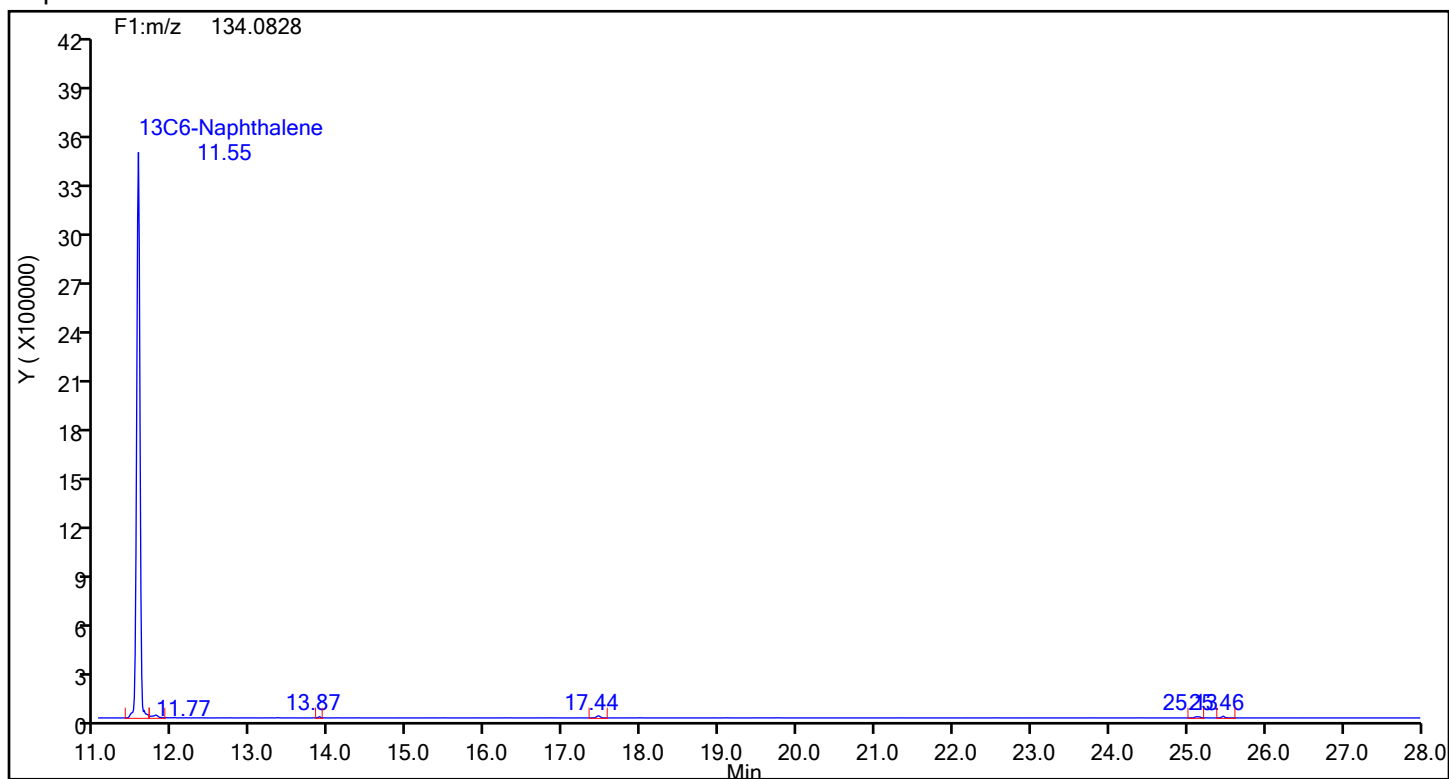
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



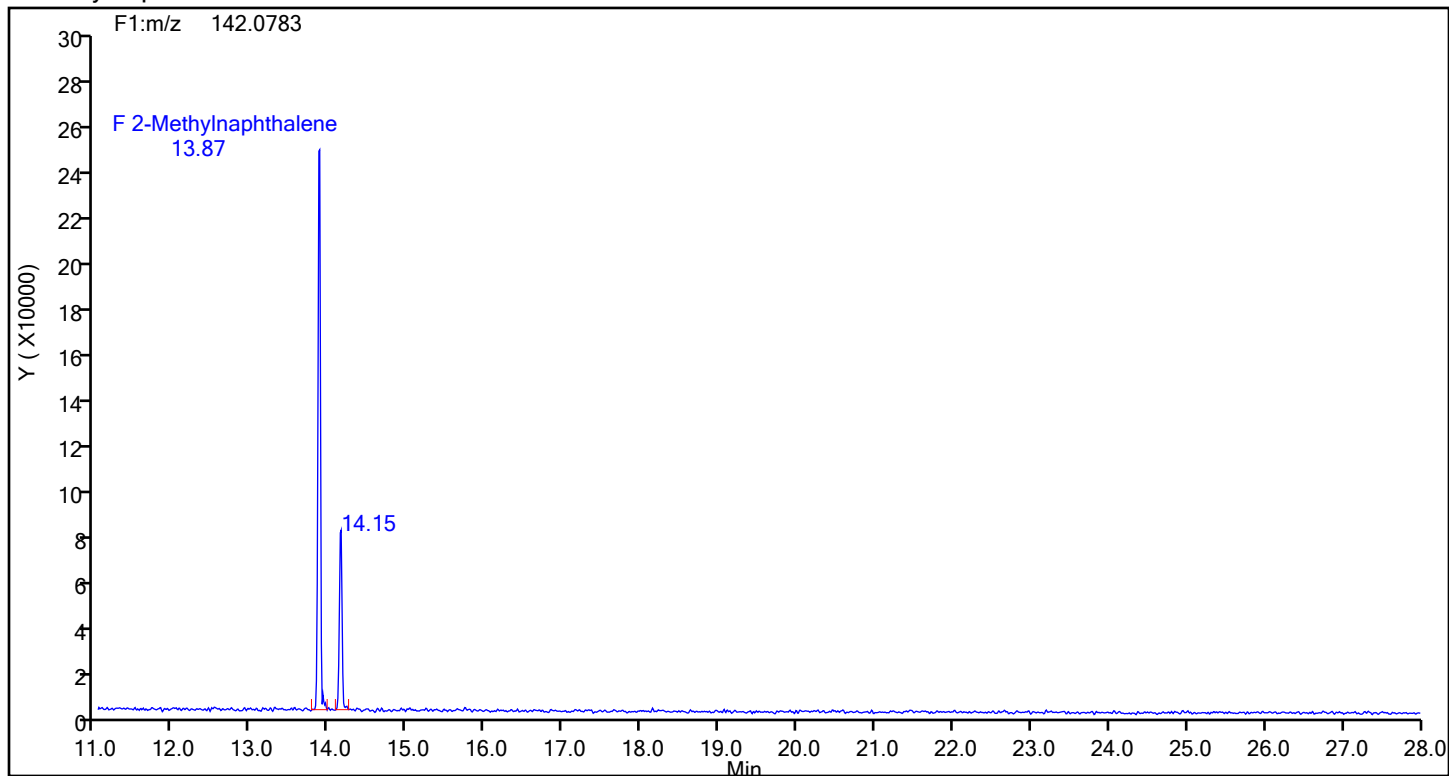
## Naphthalene Standards



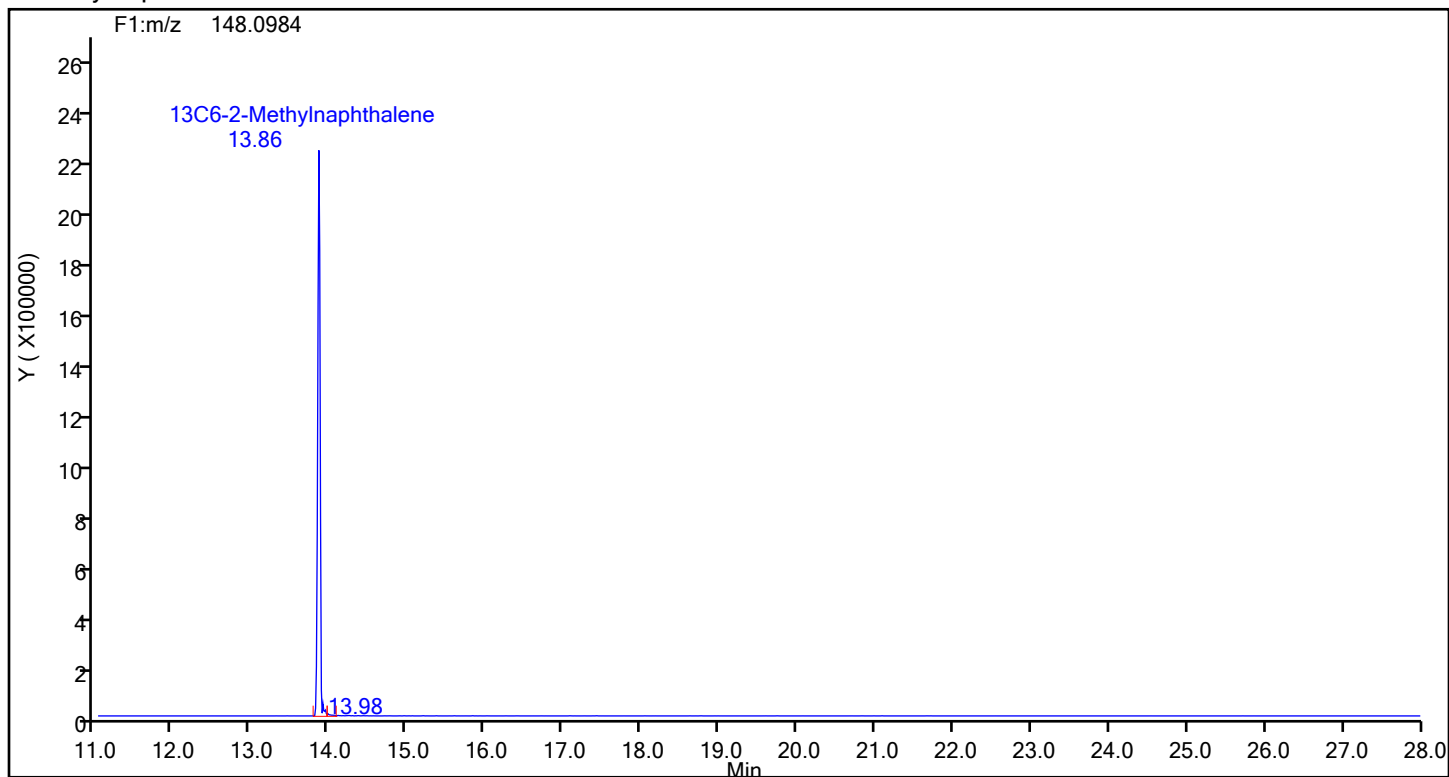
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



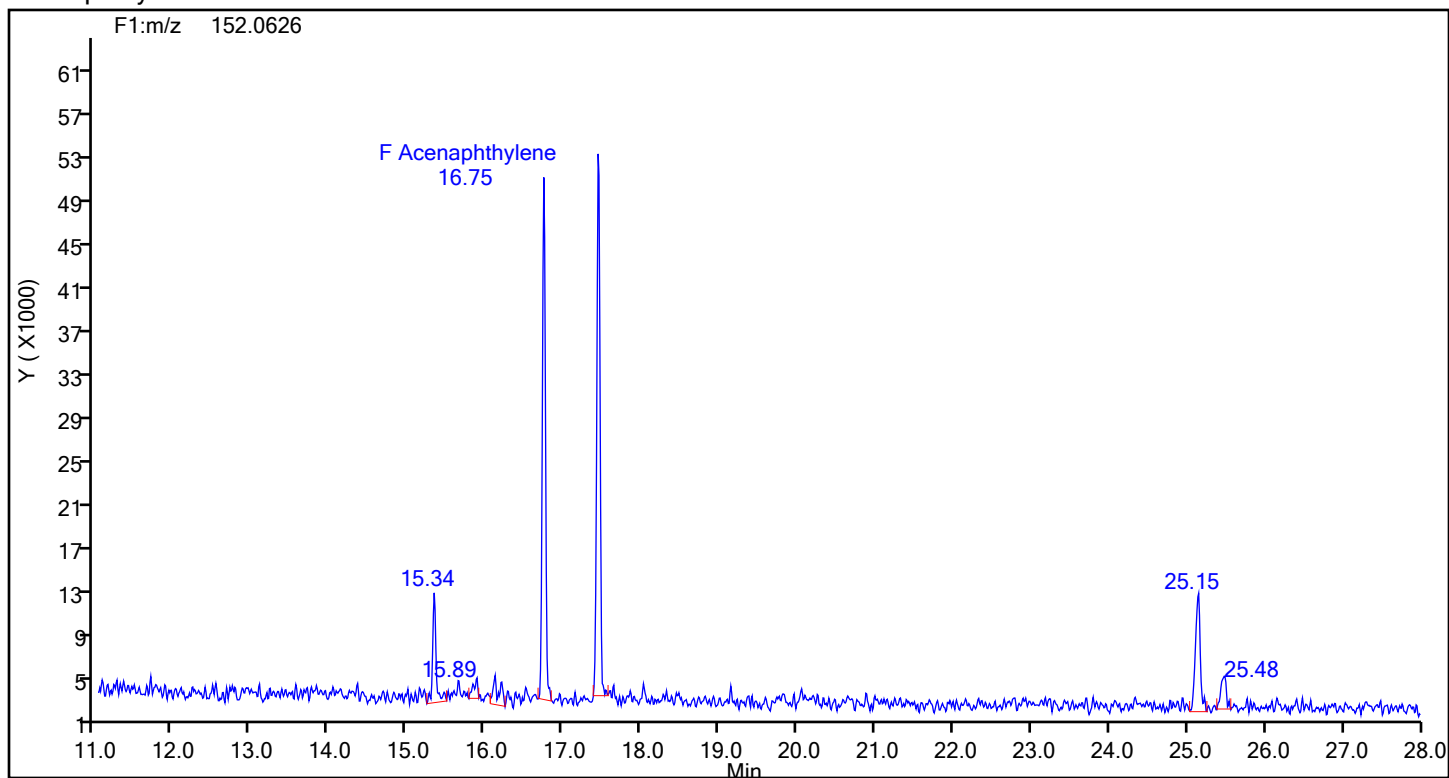
## 2-Methylnaphthalene Standards



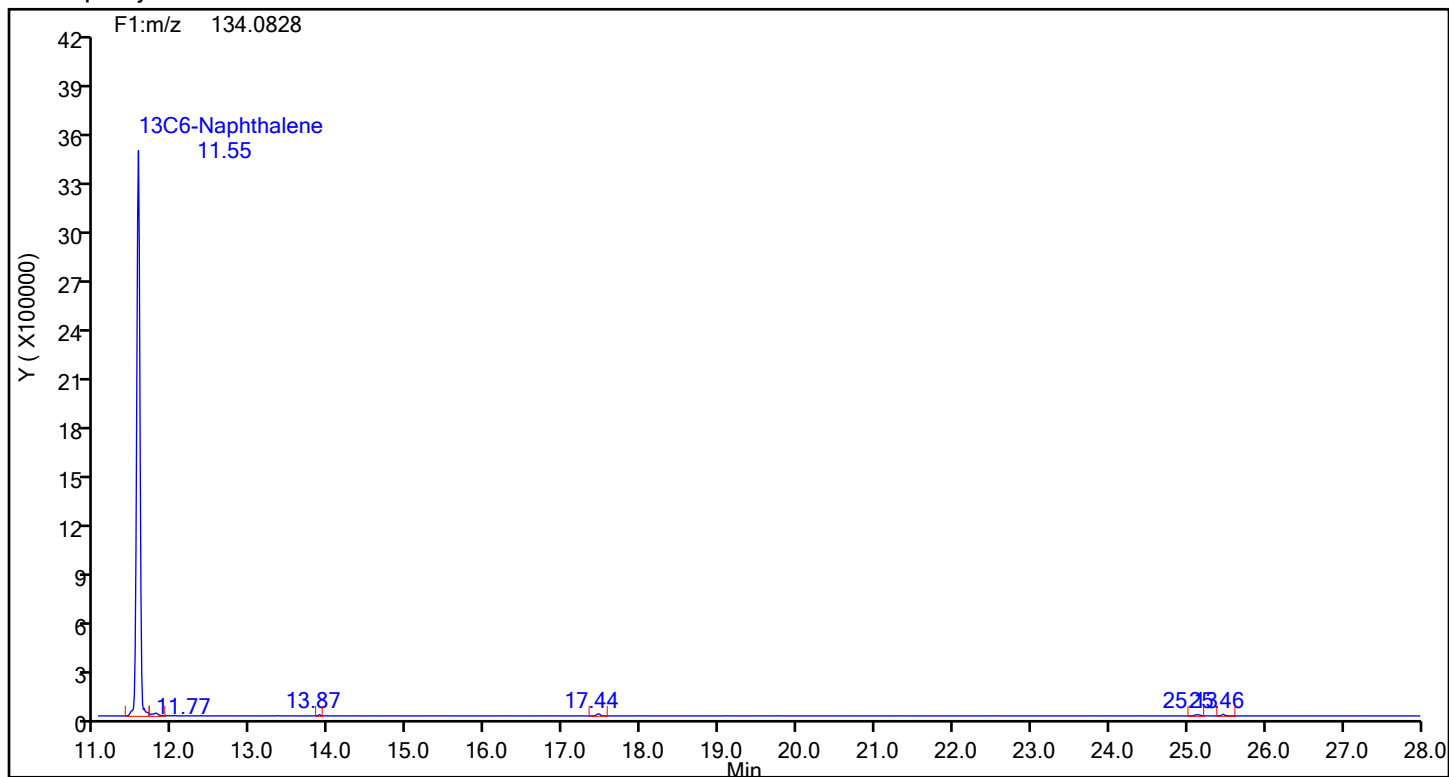
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene

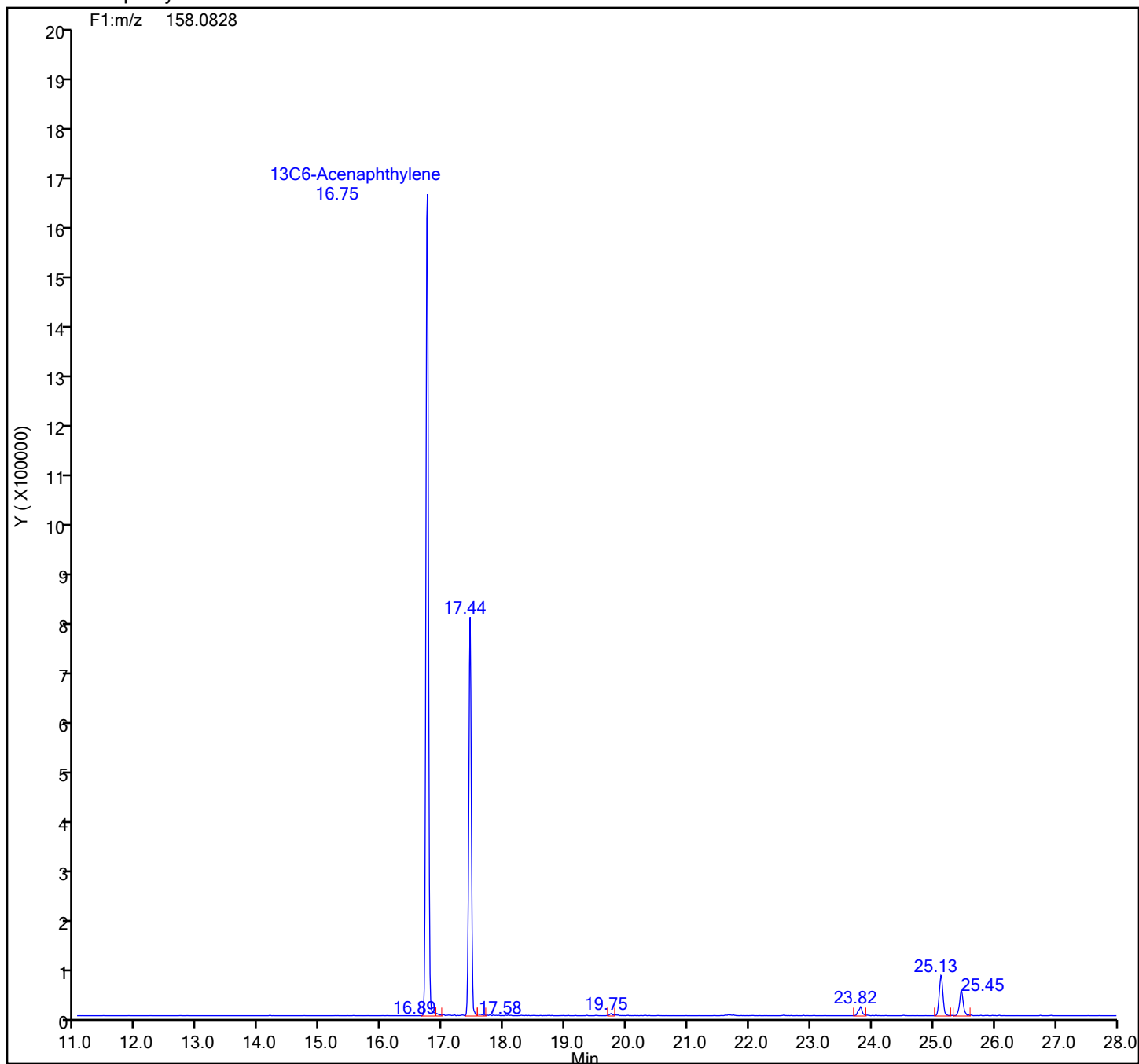


## Acenaphthylene Standards



## Eurofins Knoxville

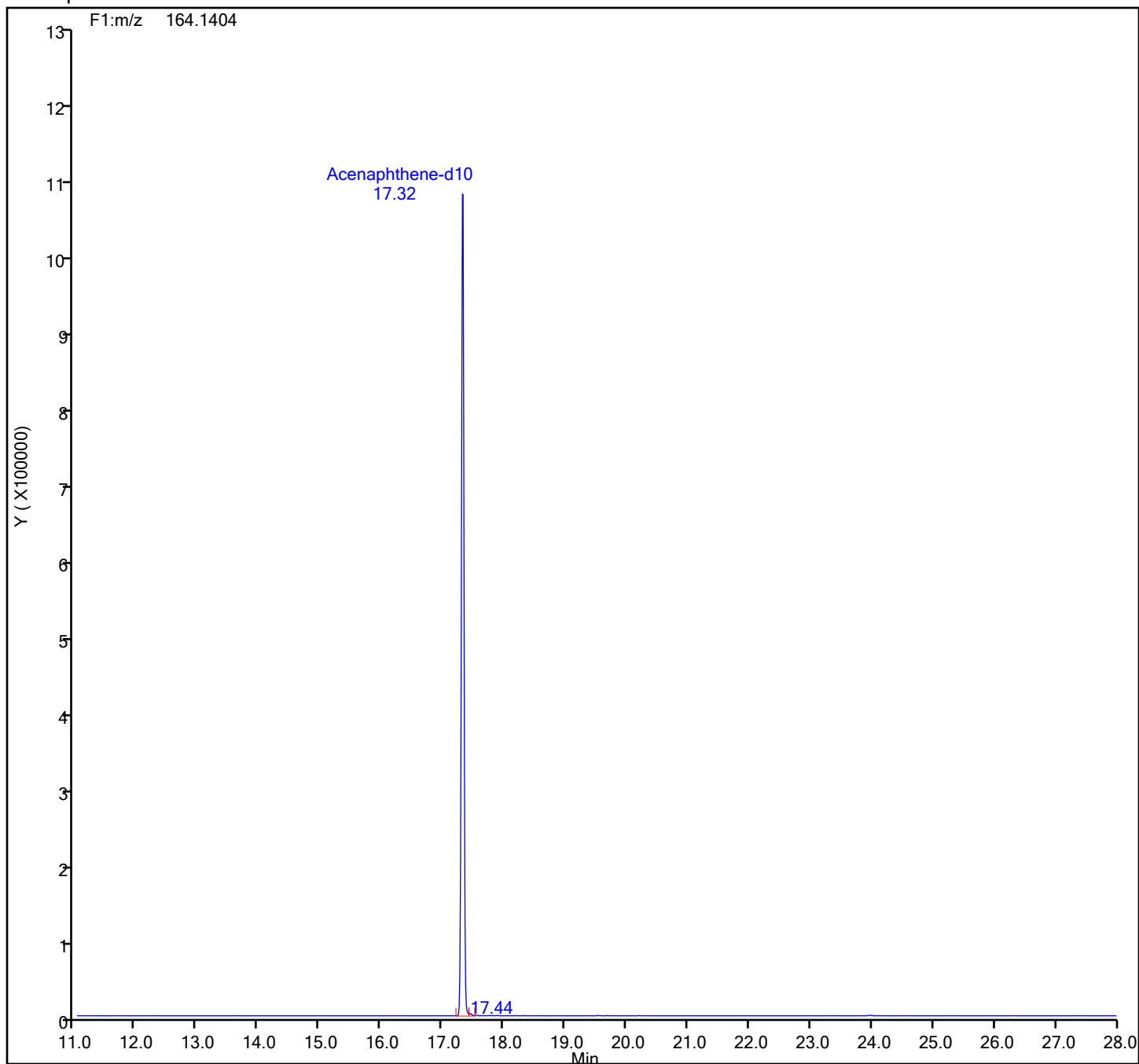
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
13C6-Acenaphthylene Standards



## Eurofins Knoxville

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Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

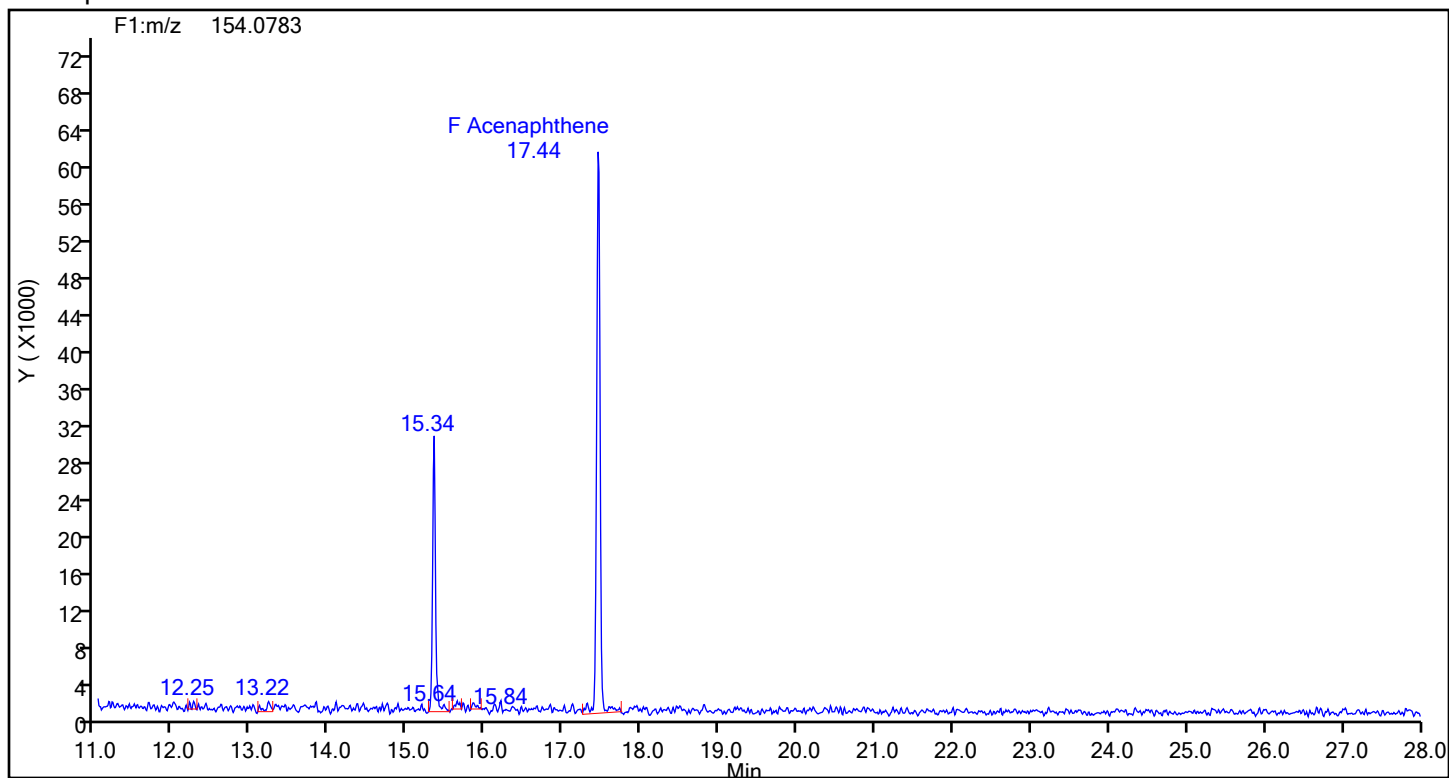
## Acenaphthene-d10 Standards



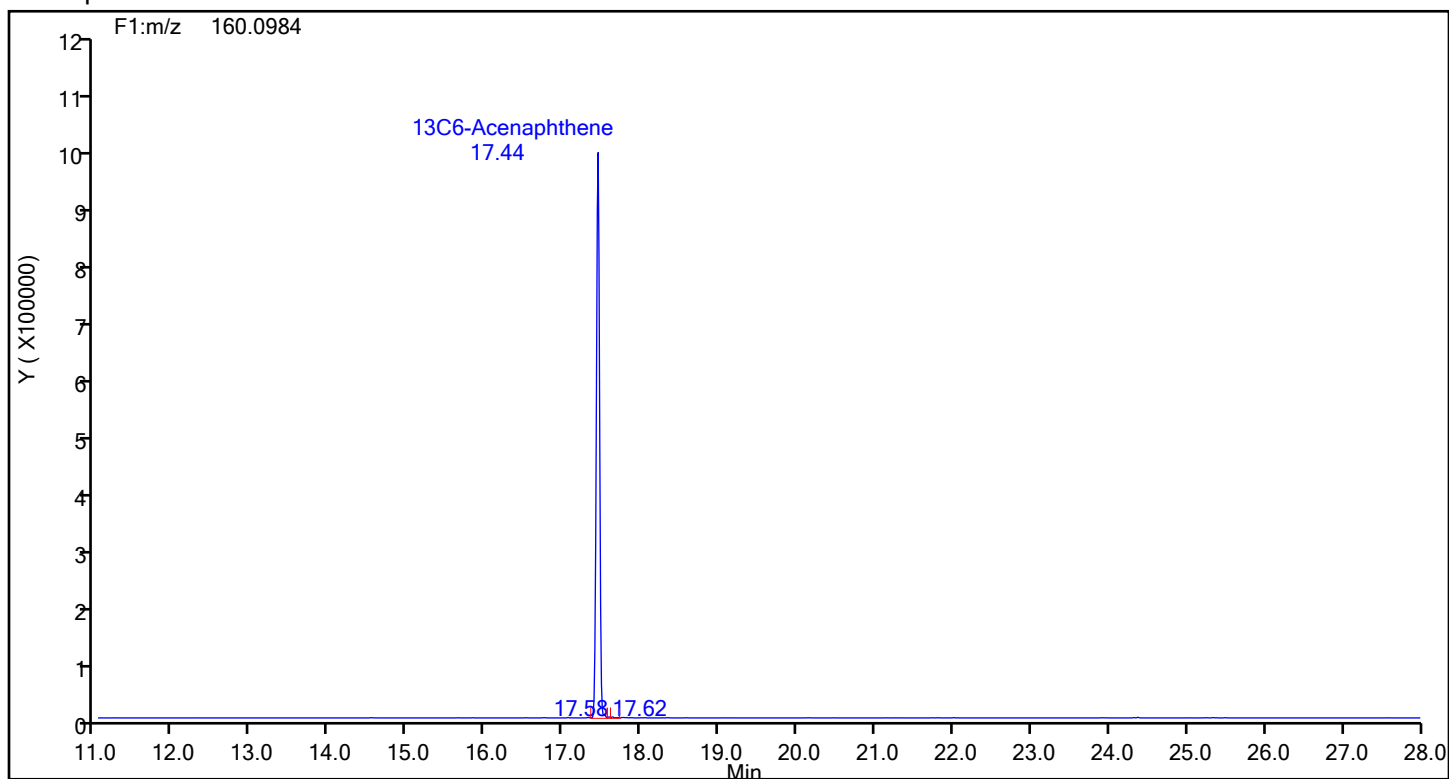
## Eurofins Knoxville

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Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



## Acenaphthene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d

Injection Date: 19-Jun-2024 17:38:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

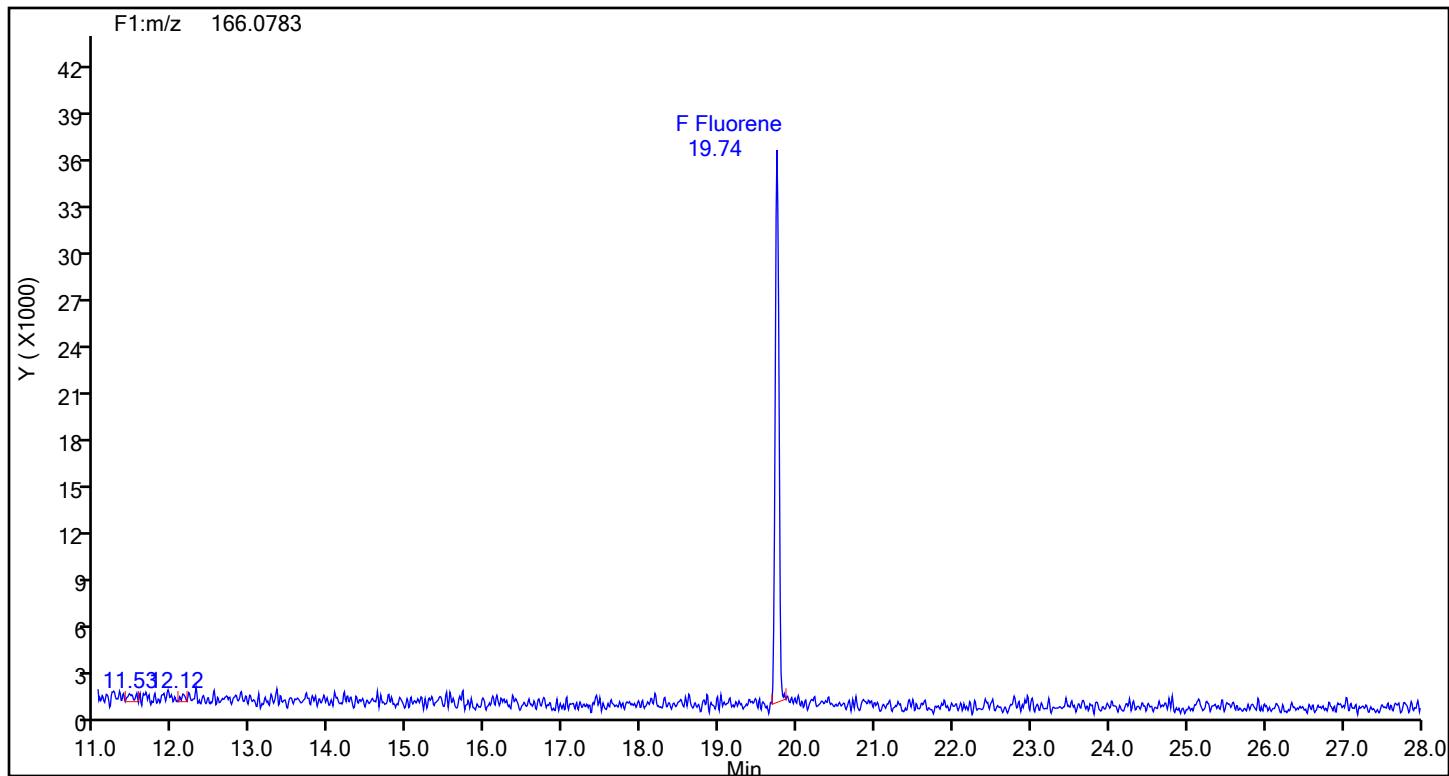
Worklist#: 87843

Sample Line#: 2

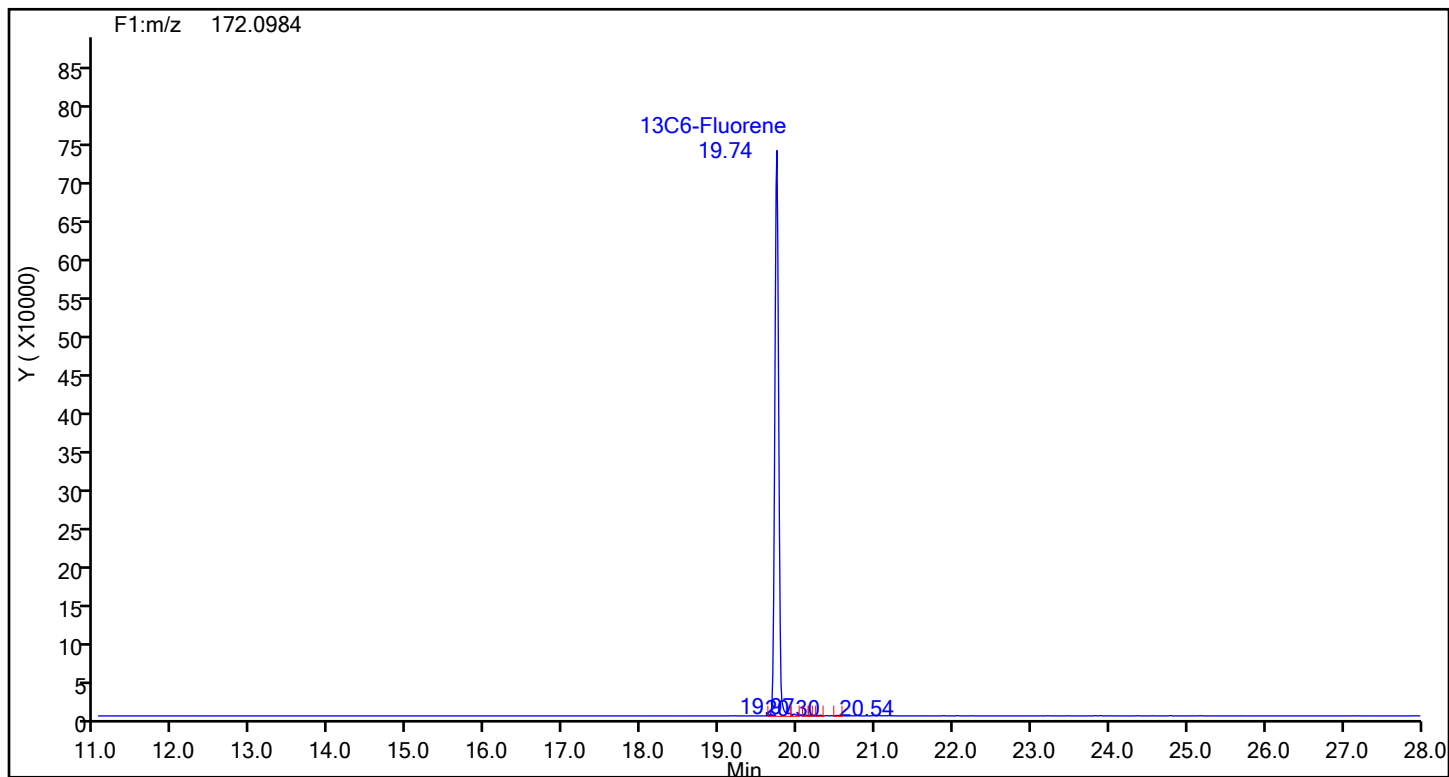
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Fluorene



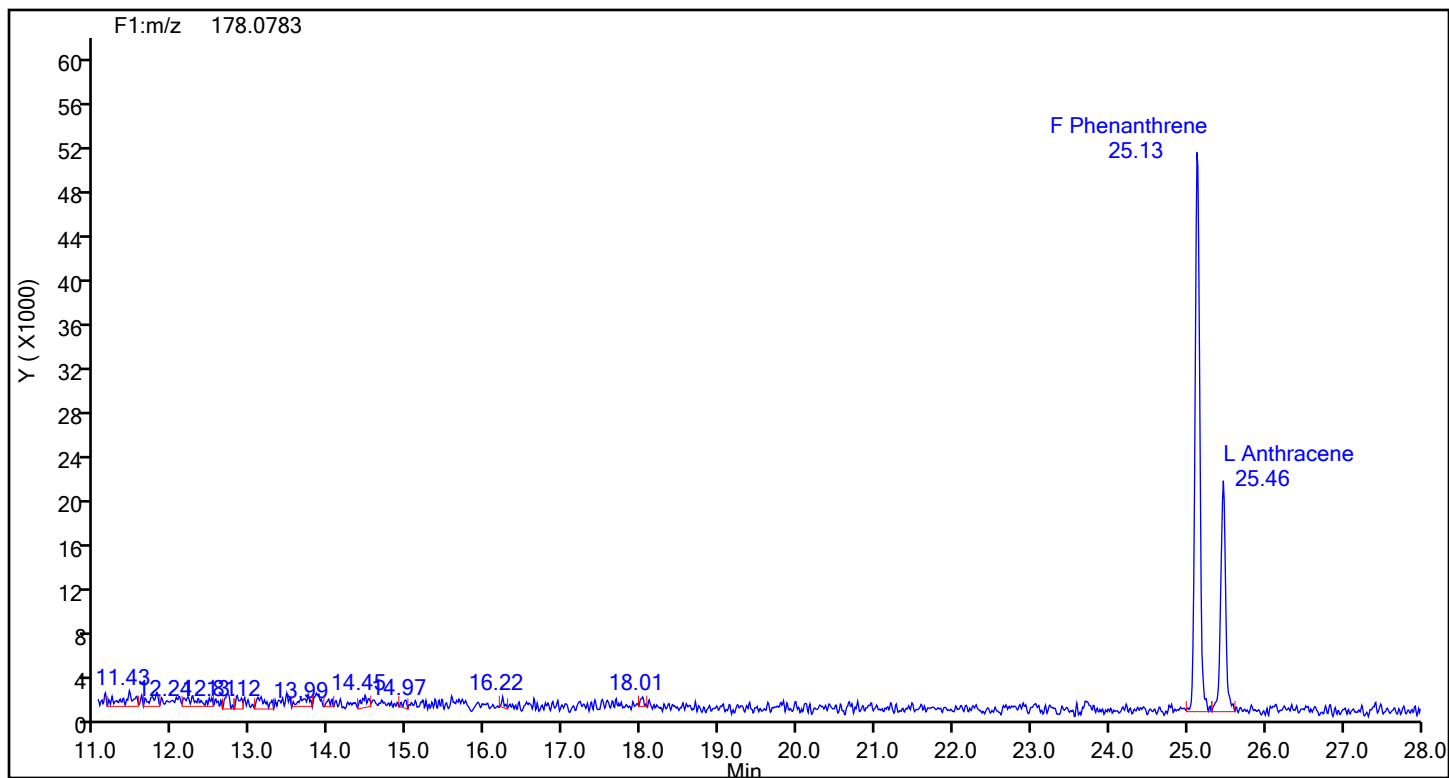
## Fluorene Standards



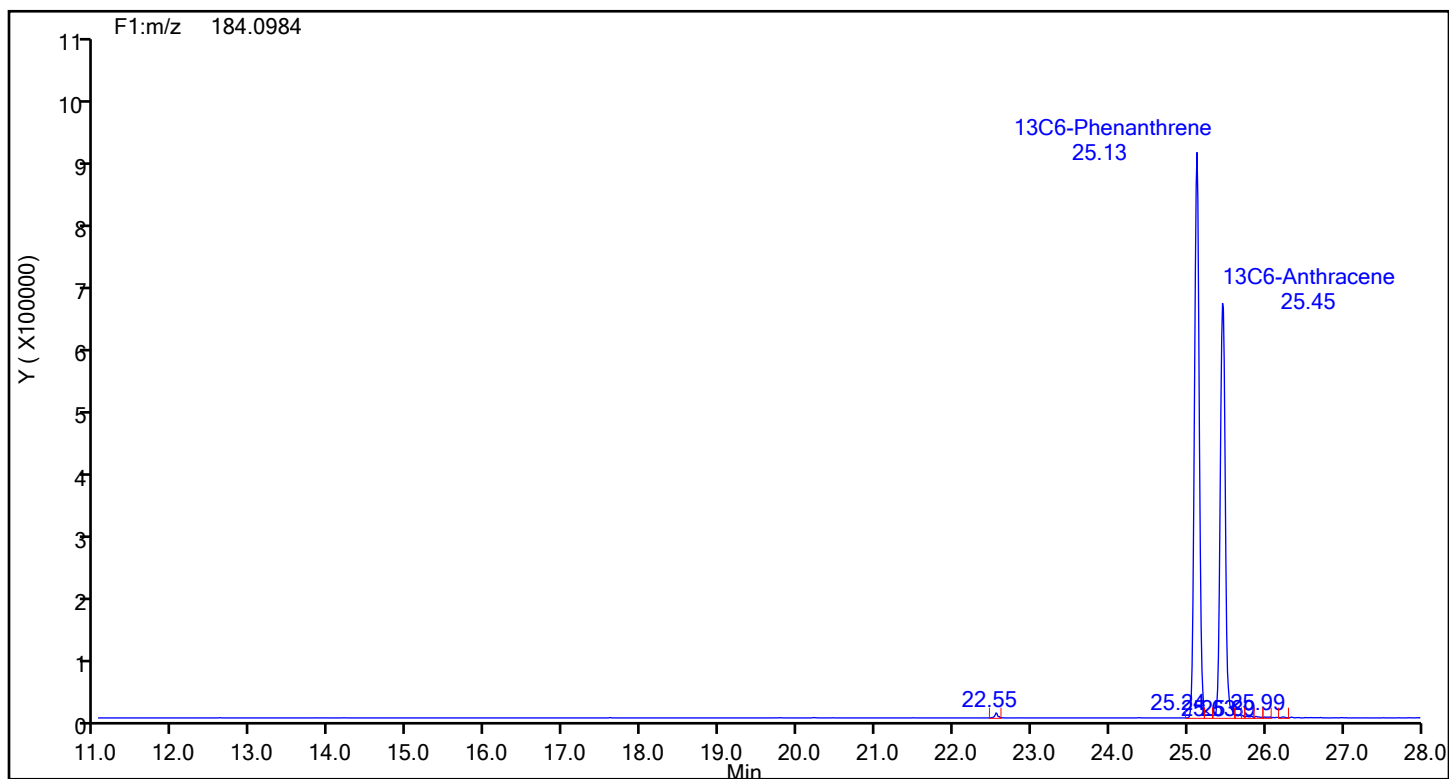


## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene

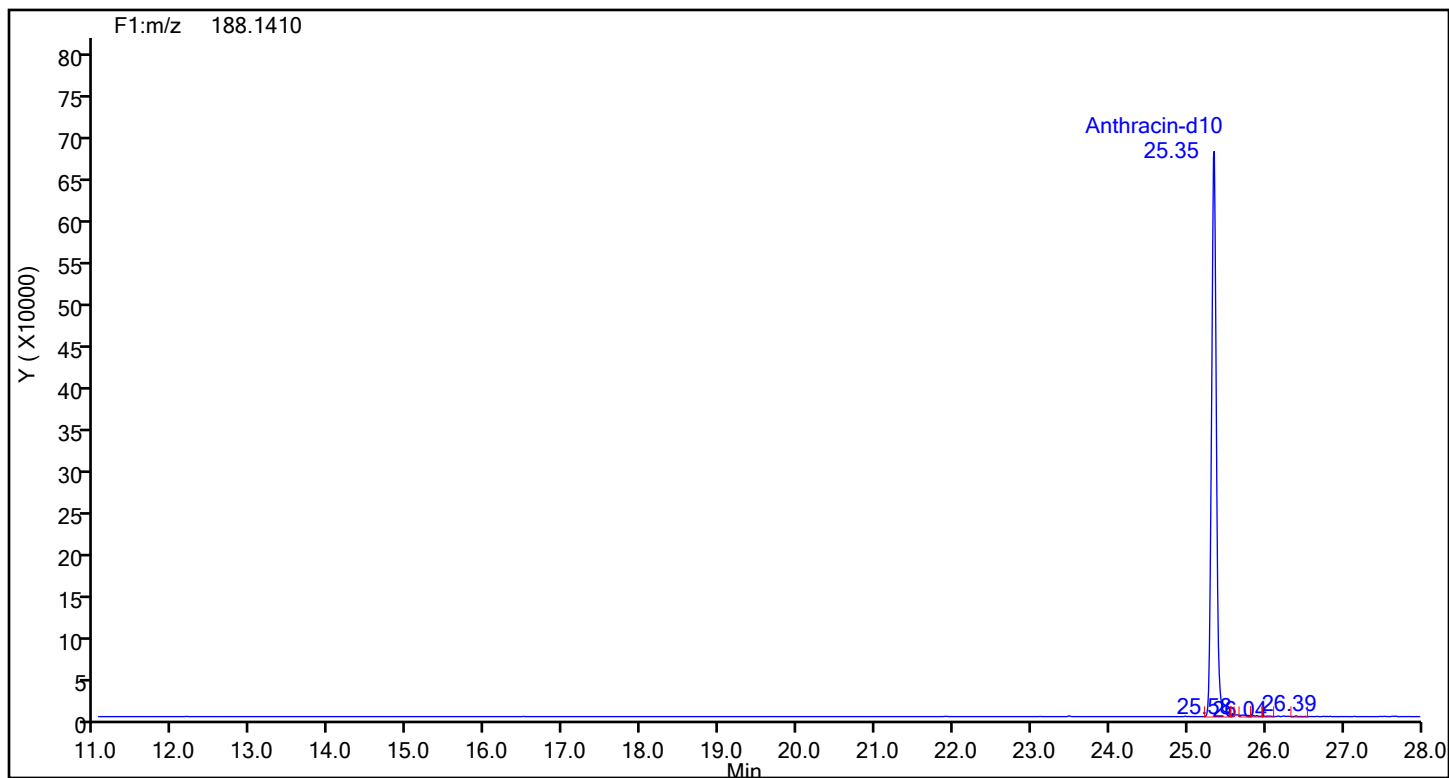


## Phenanthrene Standards

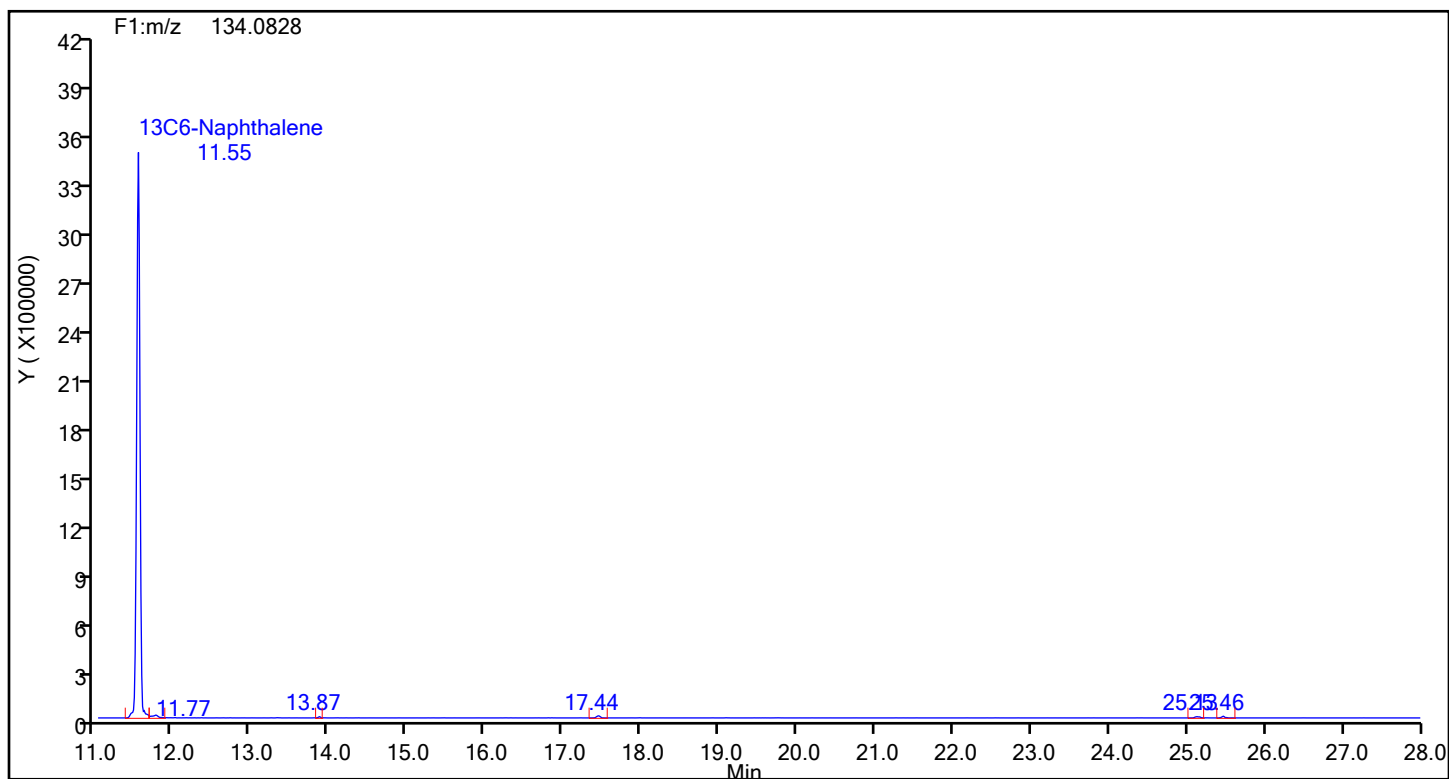


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

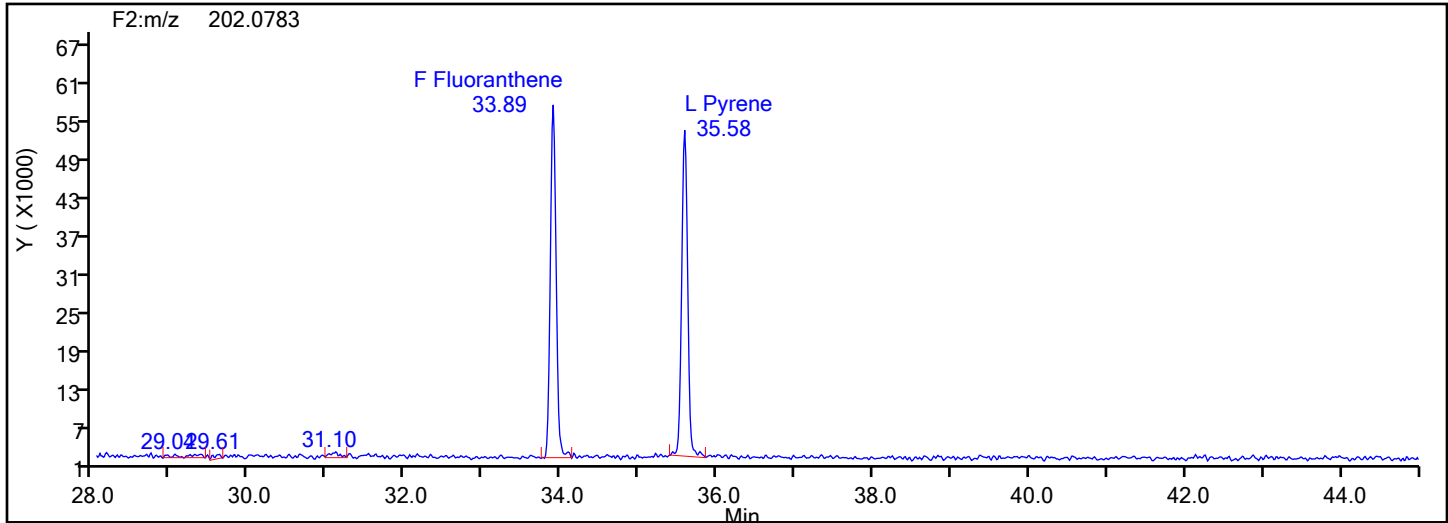


## Anthracin-d10 Standards

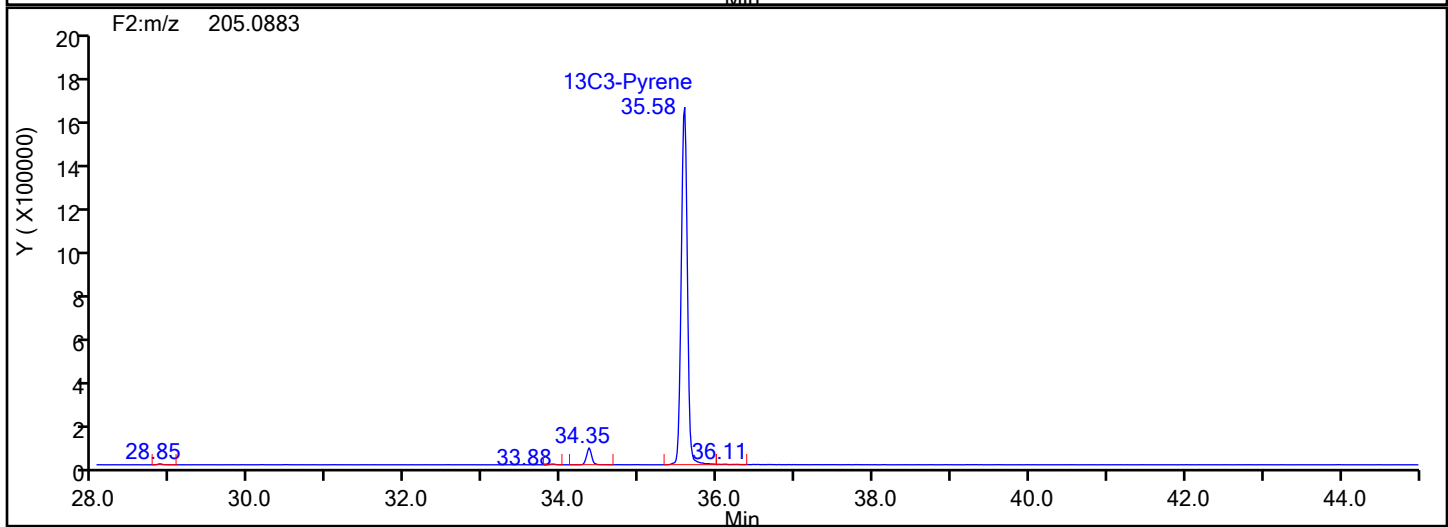
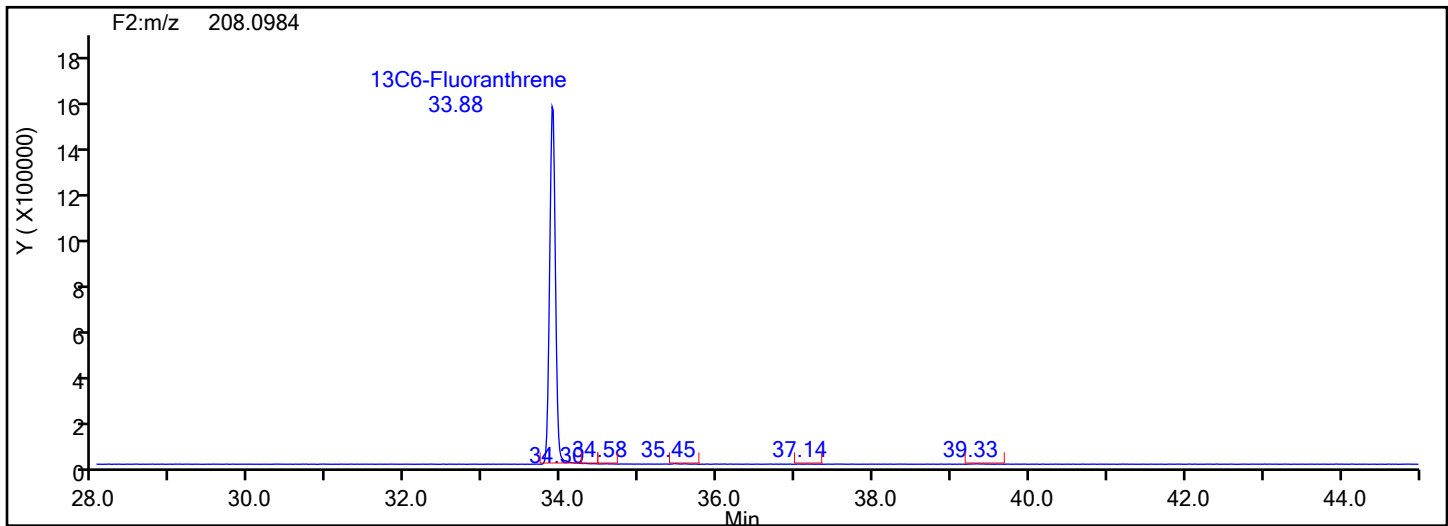


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



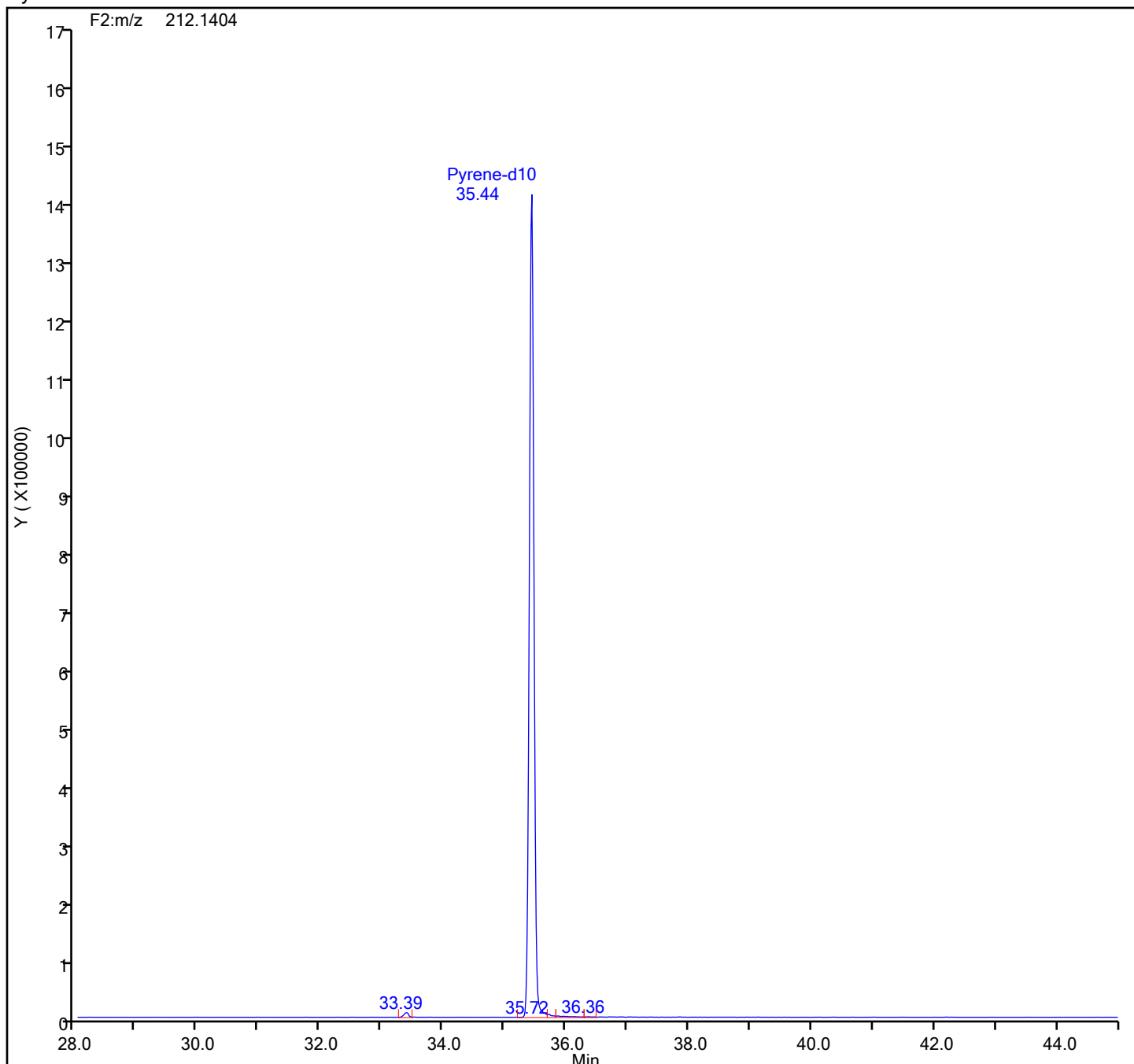
## Fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

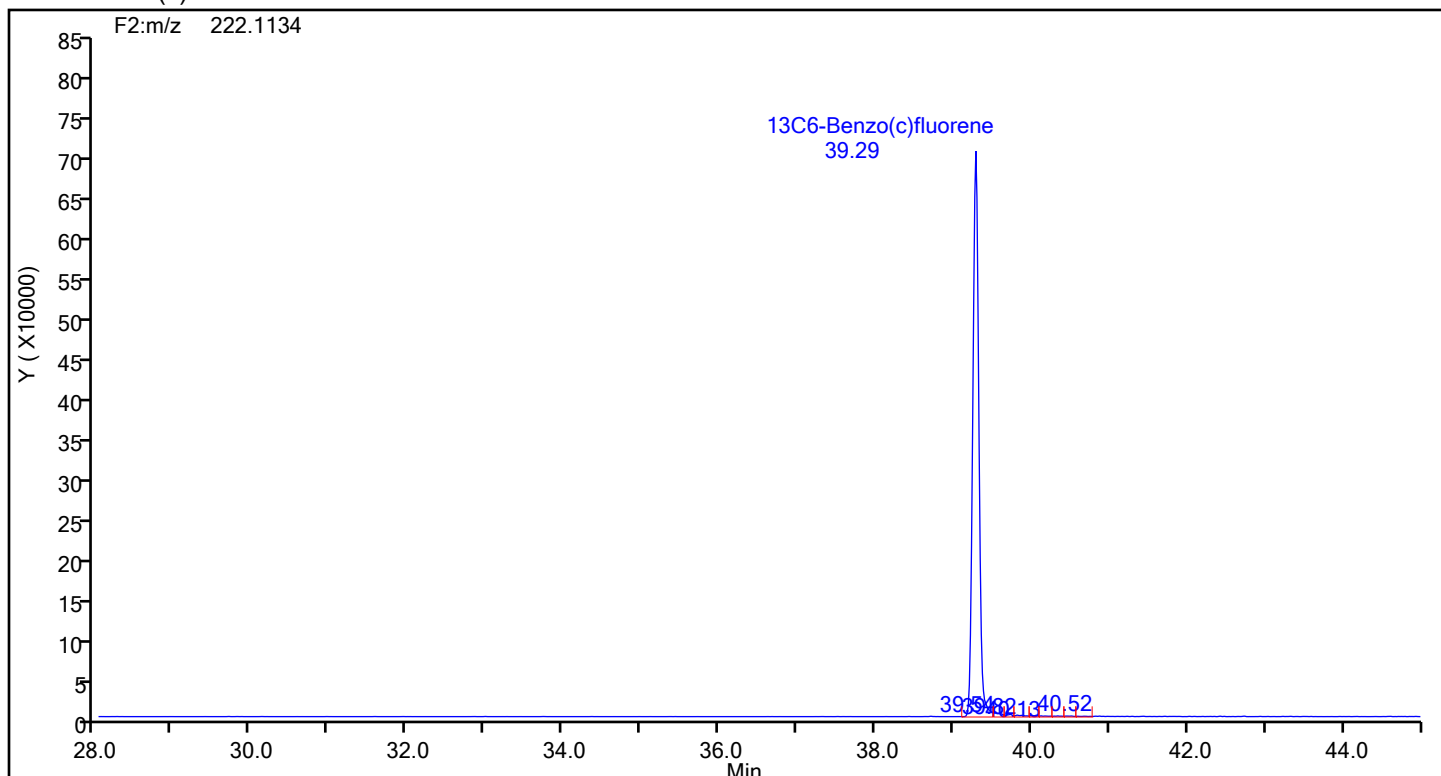
## Pyrene-d10 Standards



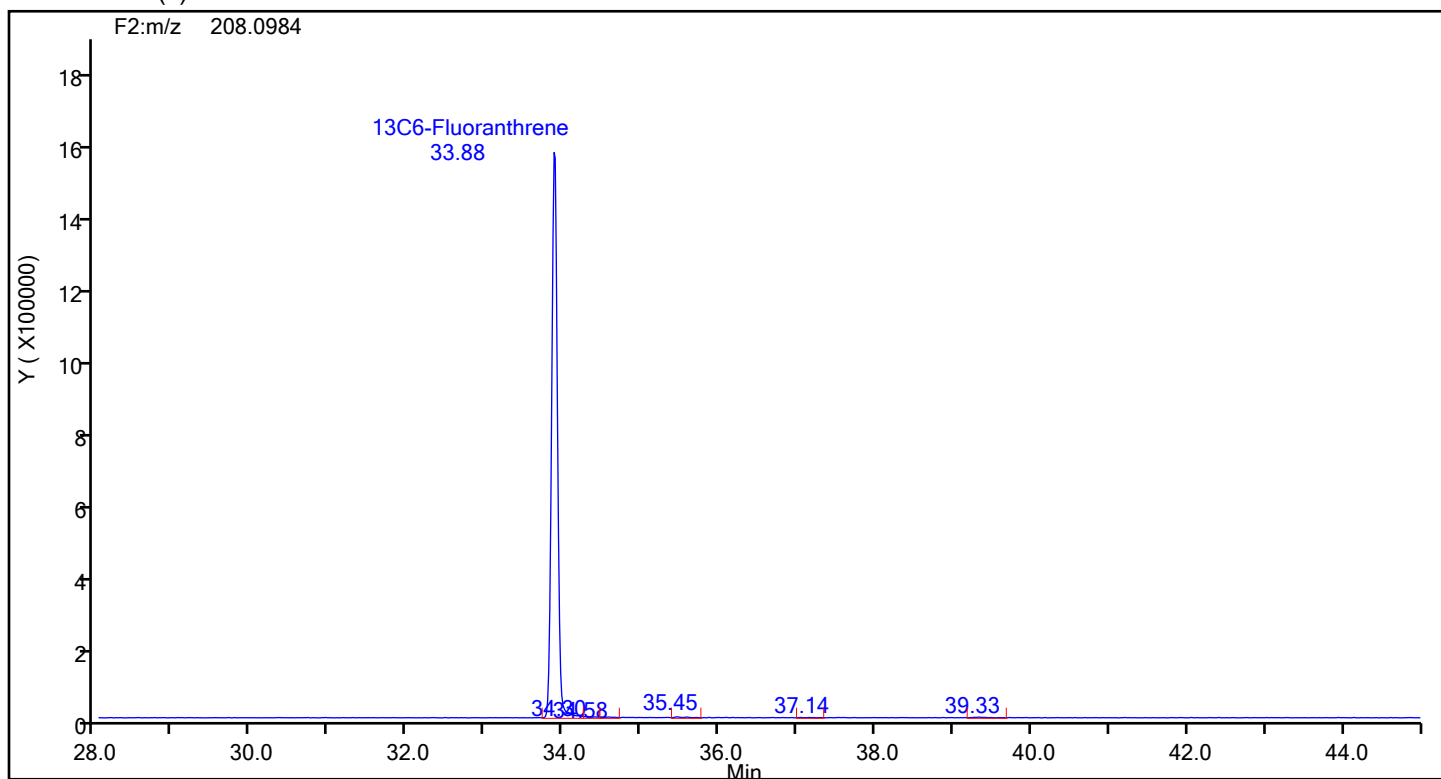
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



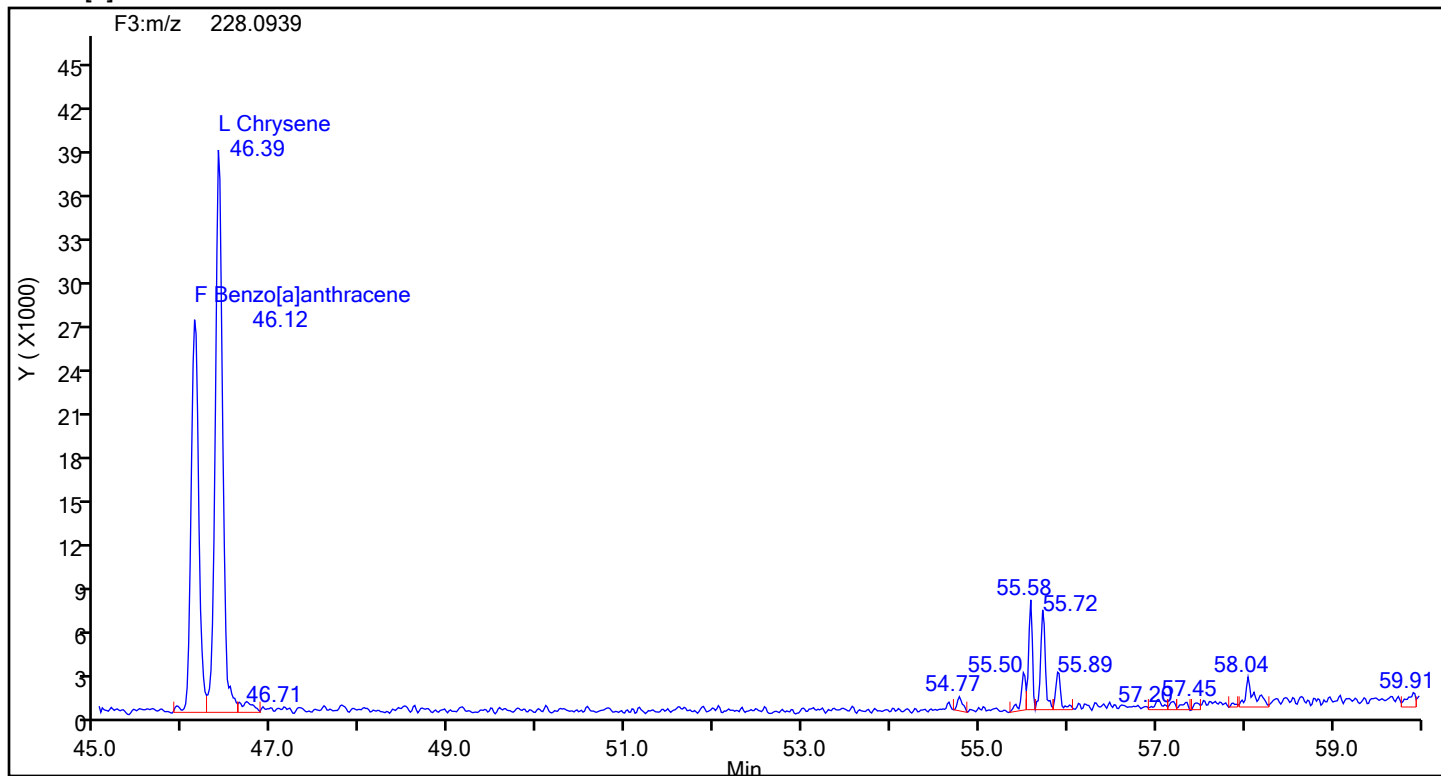
## 13C6-Benzo(c)fluorene Standards



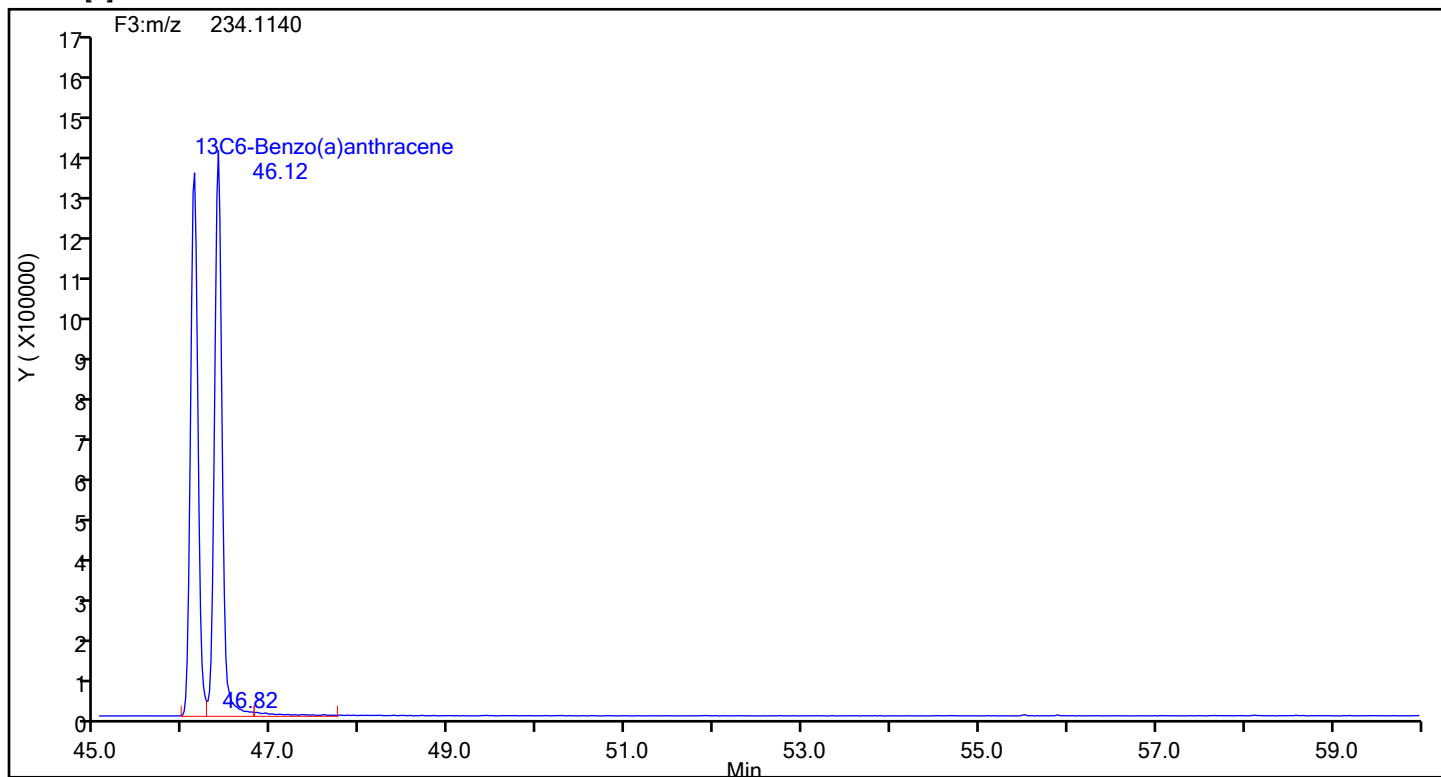
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



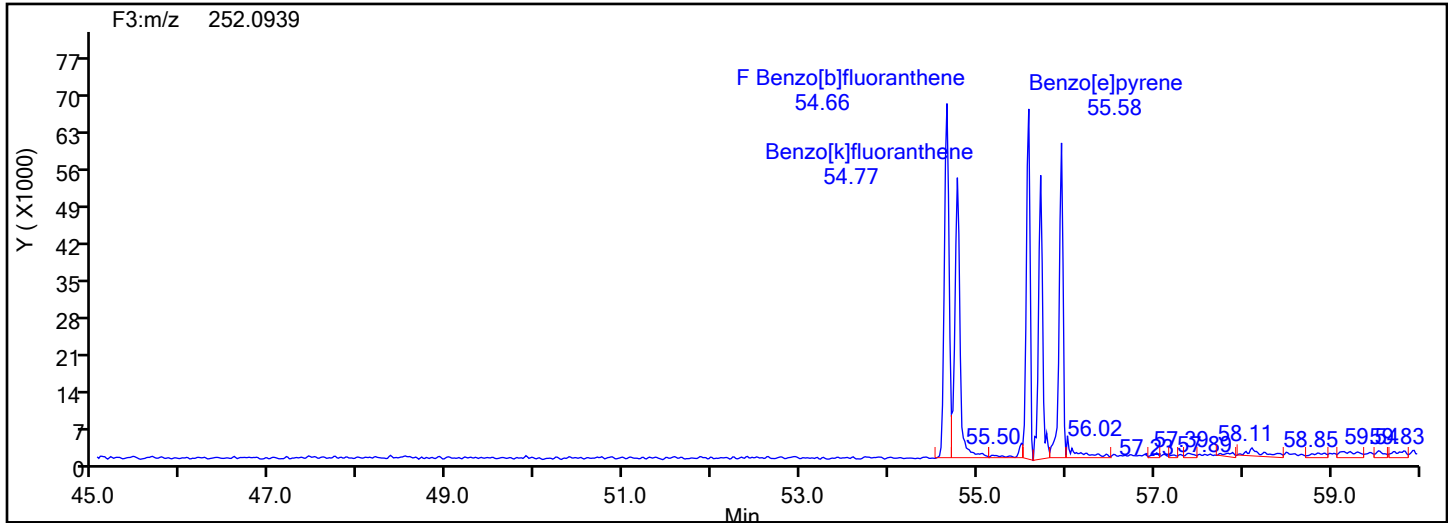
## Benzo[a]anthracene Standards



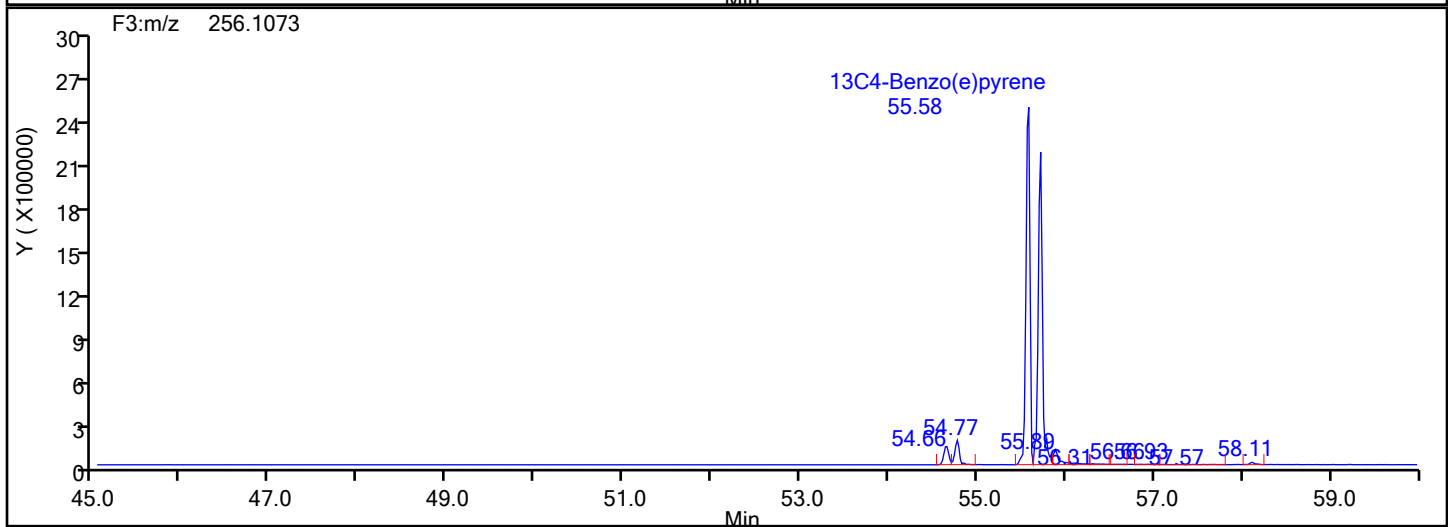
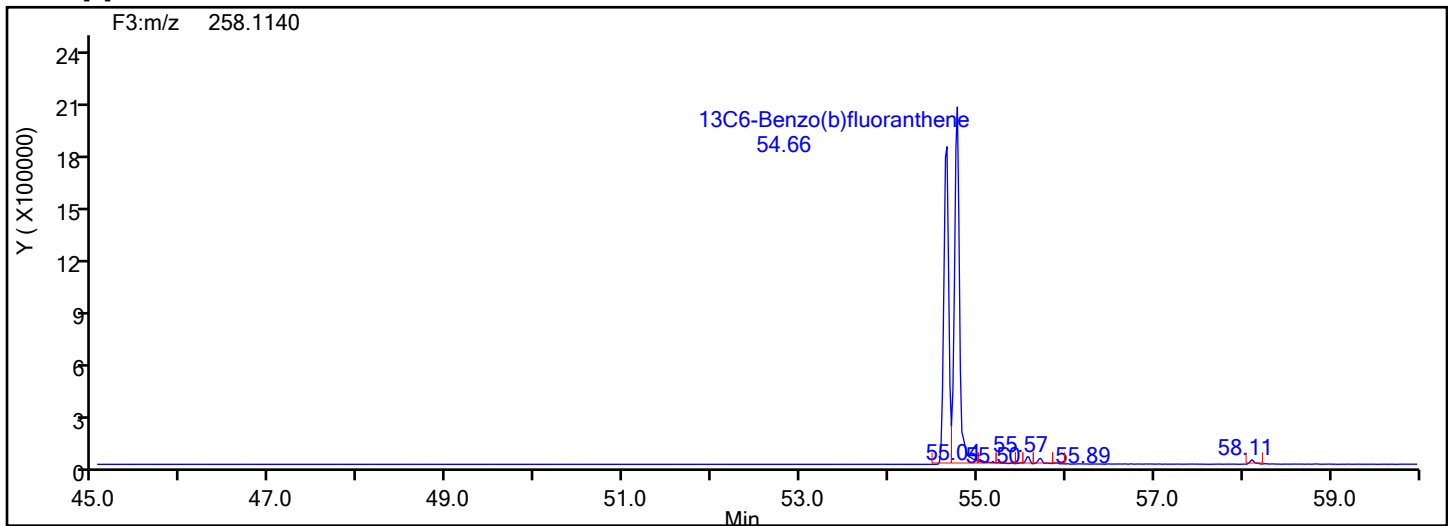
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



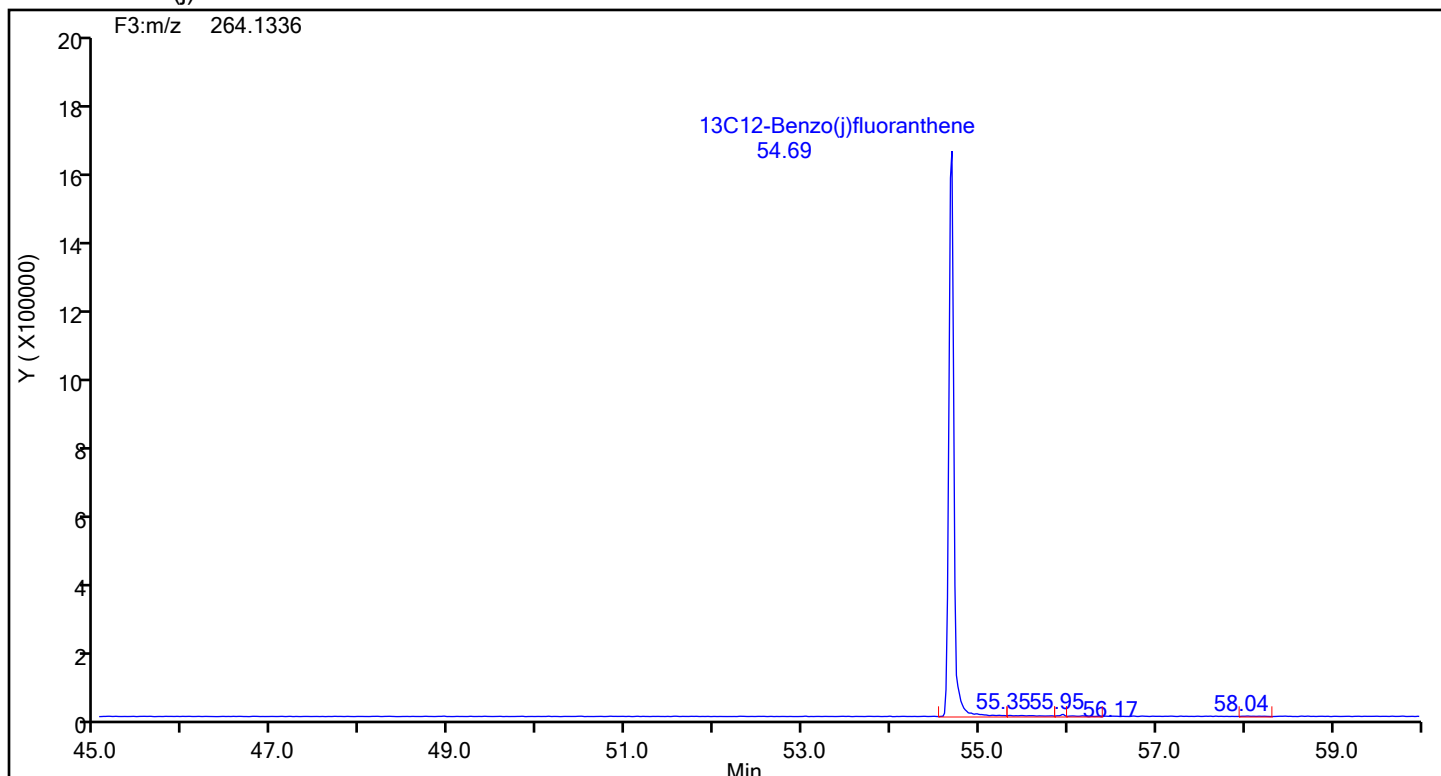
## Benzo[b]fluoranthene Standards



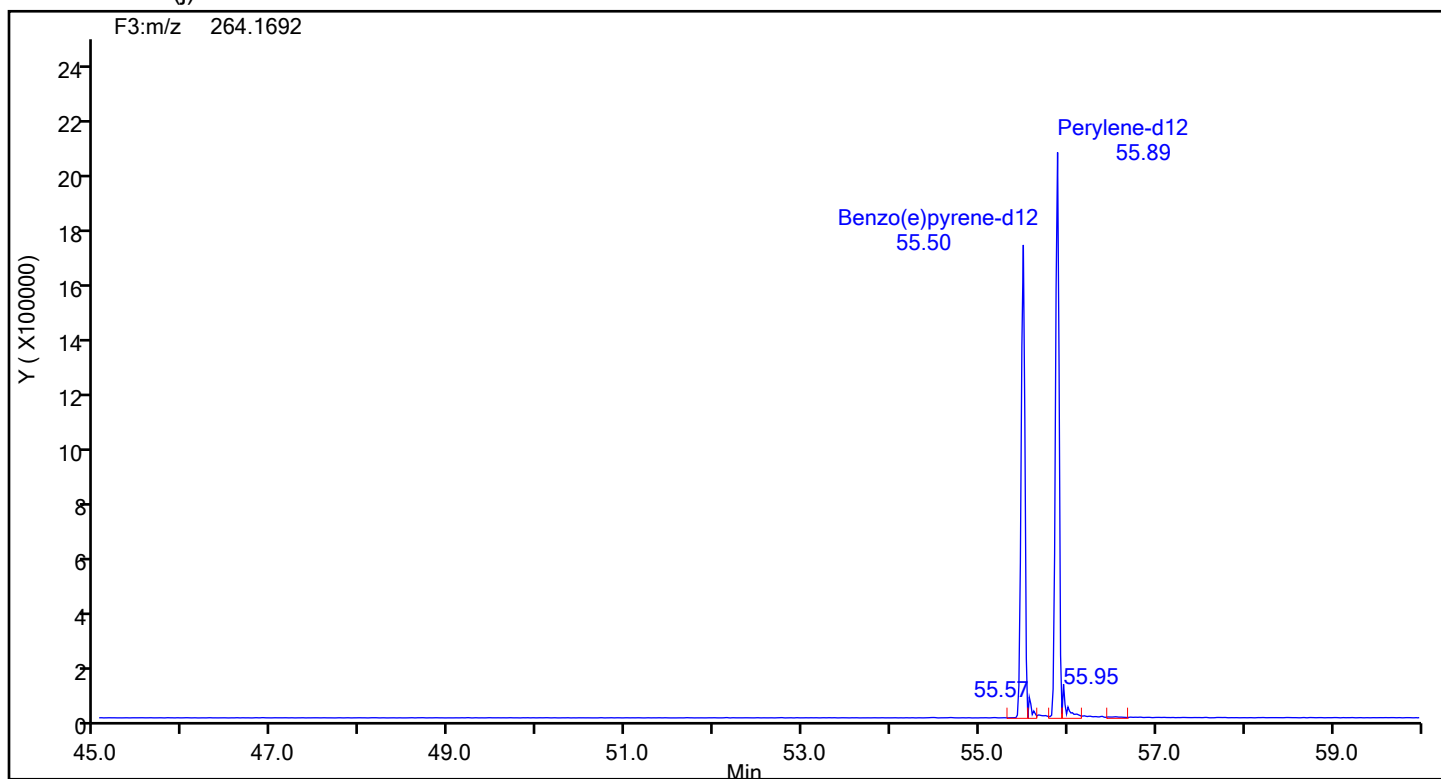
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



## 13C12-Benzo(j)fluoranthene Standards

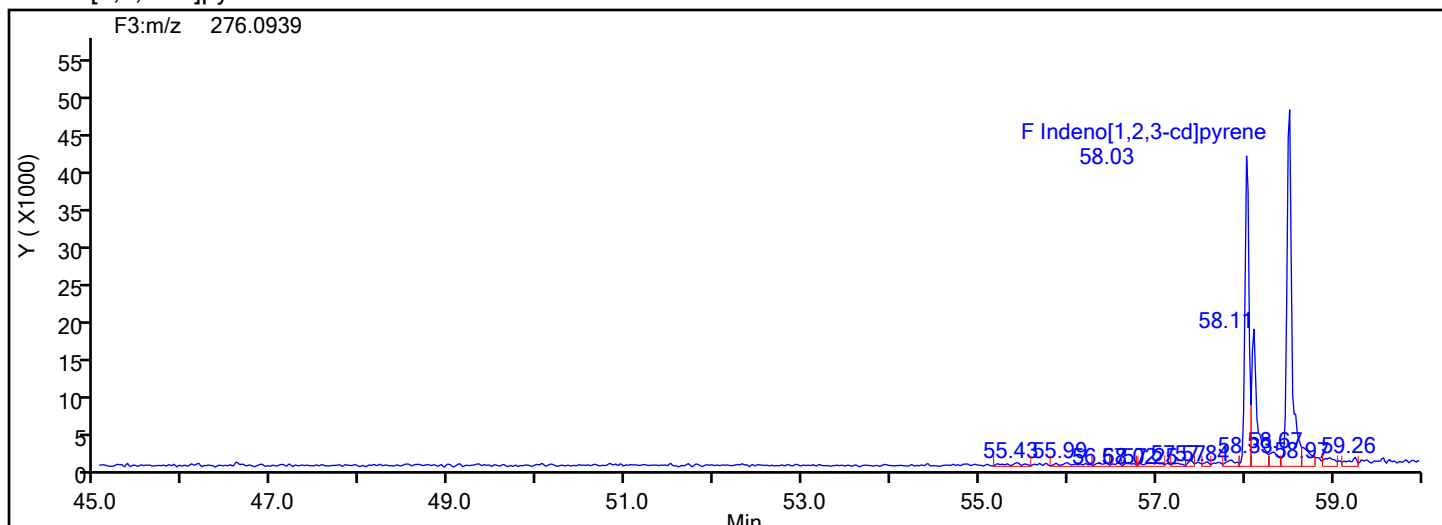




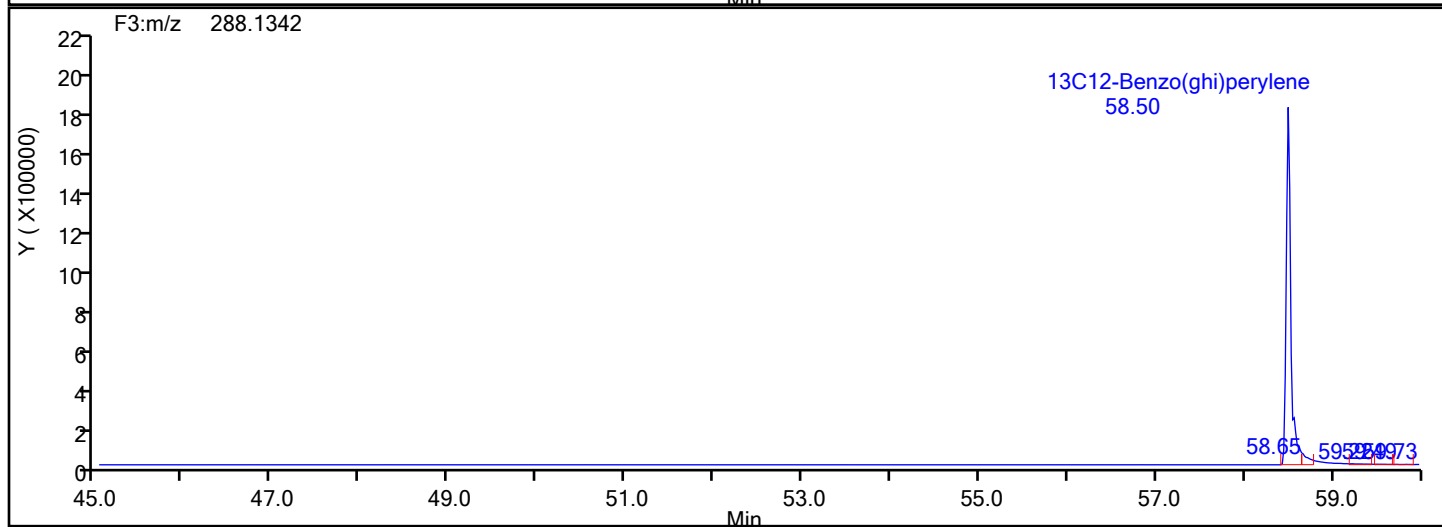
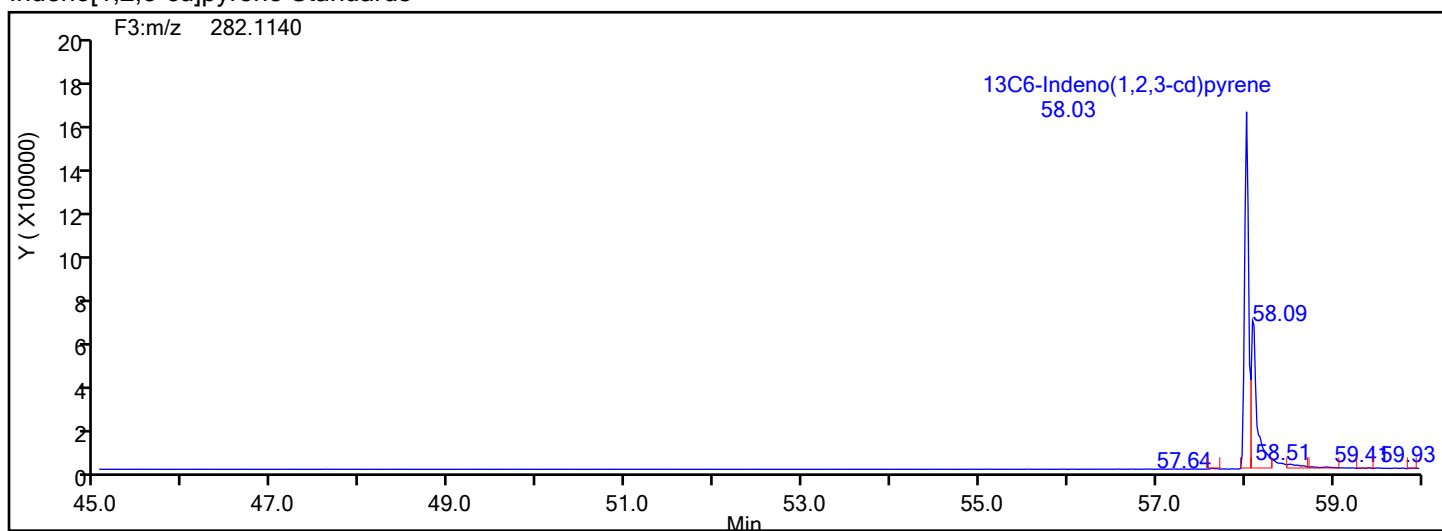
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

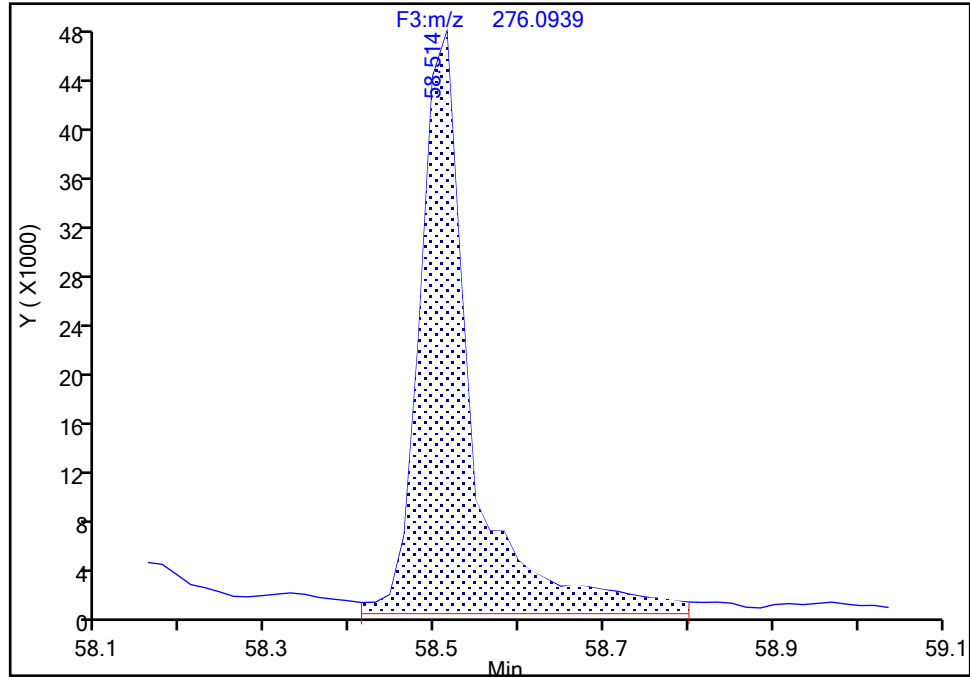
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Instrument ID: D3PAH  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

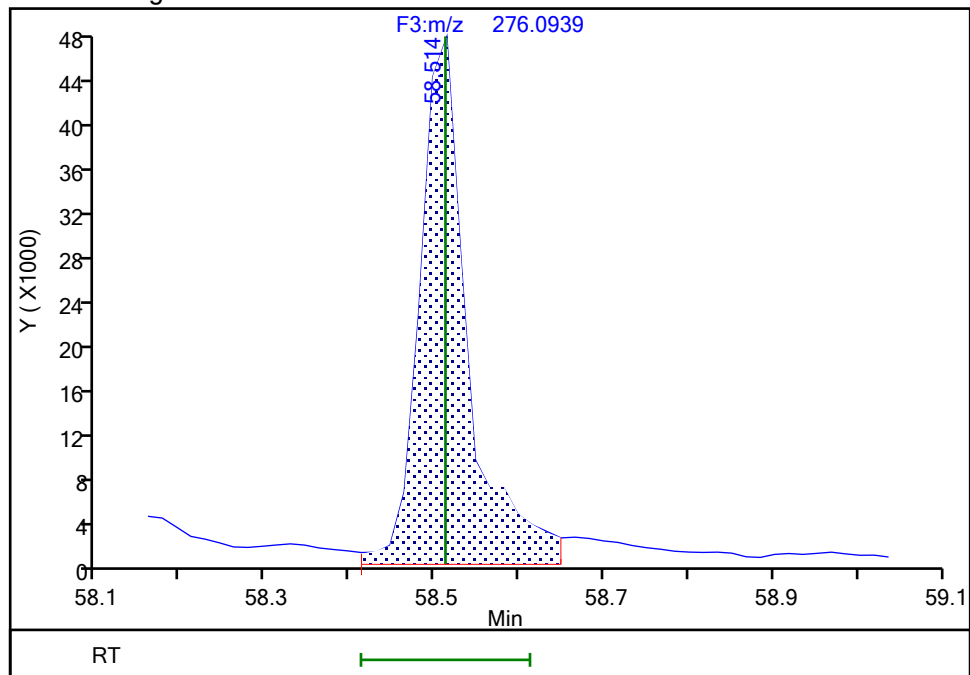
RT: 58.51  
Area: 201482  
Amount: 2.016742  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.51  
Area: 187407  
Amount: 2.234889  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:49:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

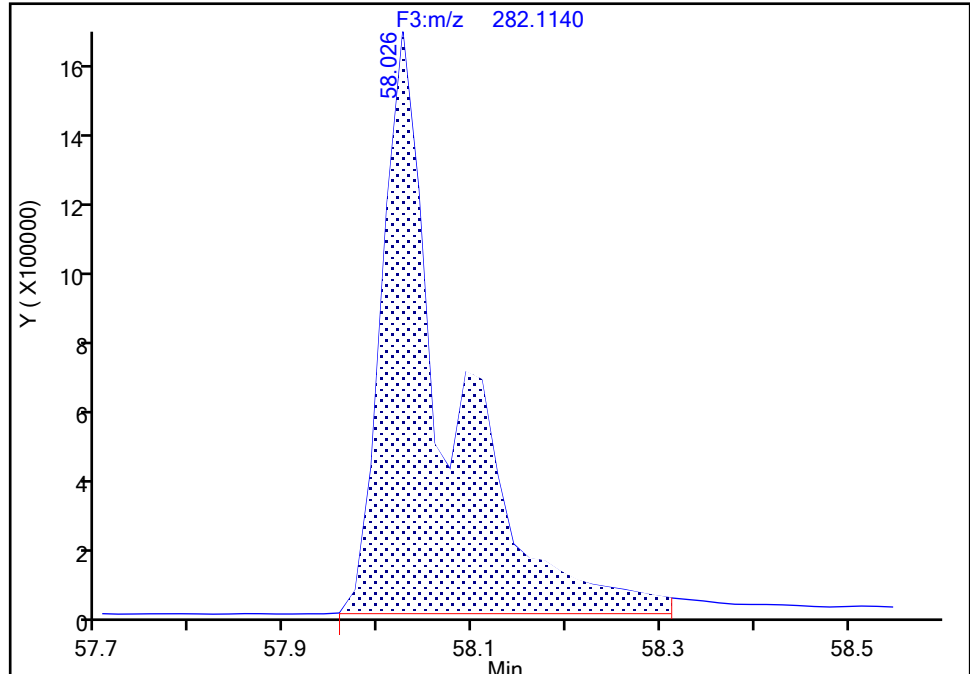
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Injection Date: 19-Jun-2024 17:38:00 Instrument ID: D3PAH  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2**

Signal: 1

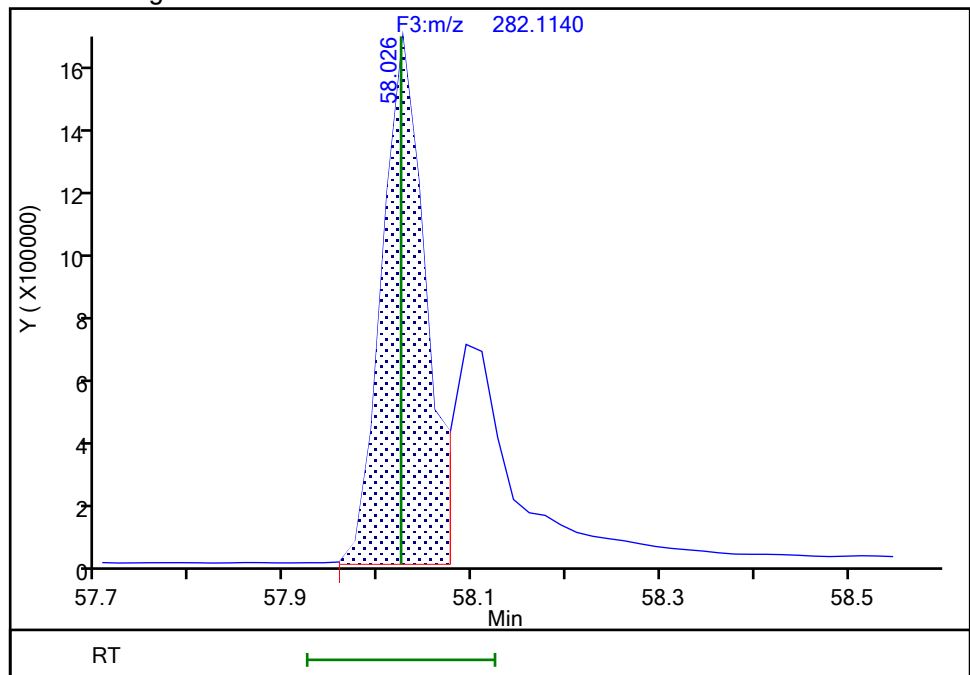
RT: 58.03  
Area: 8252283  
Amount: 125.6893  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.03  
Area: 5418391  
Amount: 105.4568  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:48:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

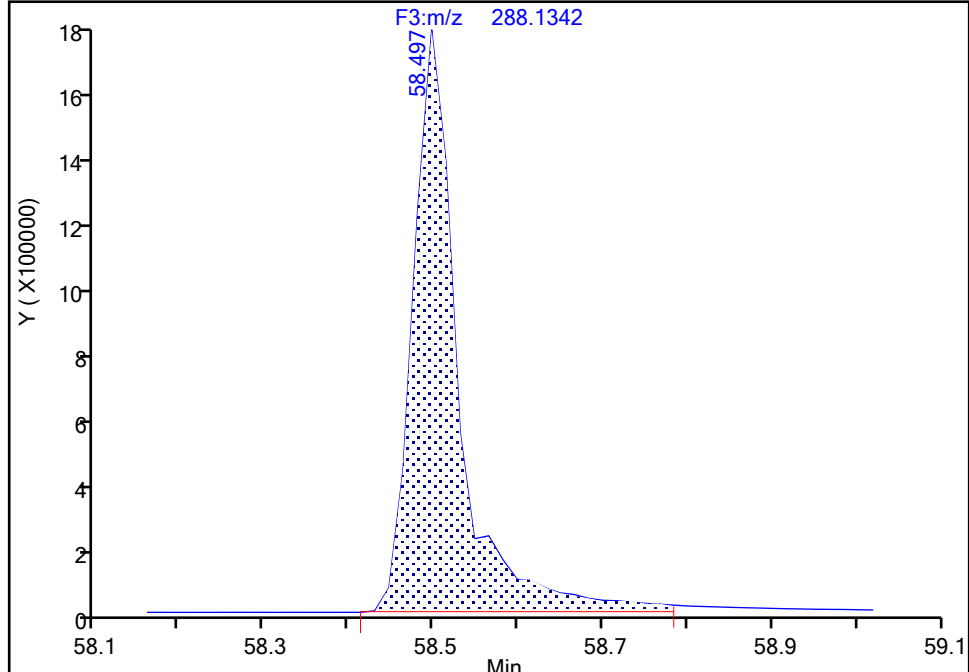
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Instrument ID: D3PAH  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C12-Benzo(ghi)perylene, CAS: 350820-11-0**

Signal: 1

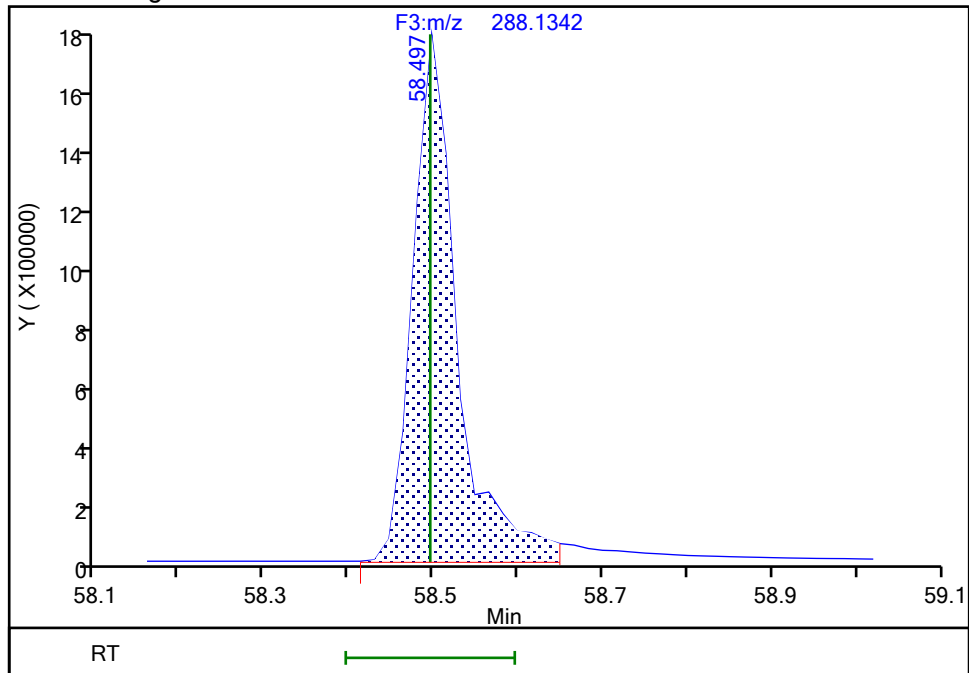
RT: 58.50  
Area: 6807660  
Amount: 107.2494  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.50  
Area: 6532018  
Amount: 101.8985  
Amount Units: pg/ul

## Manual Integration Results



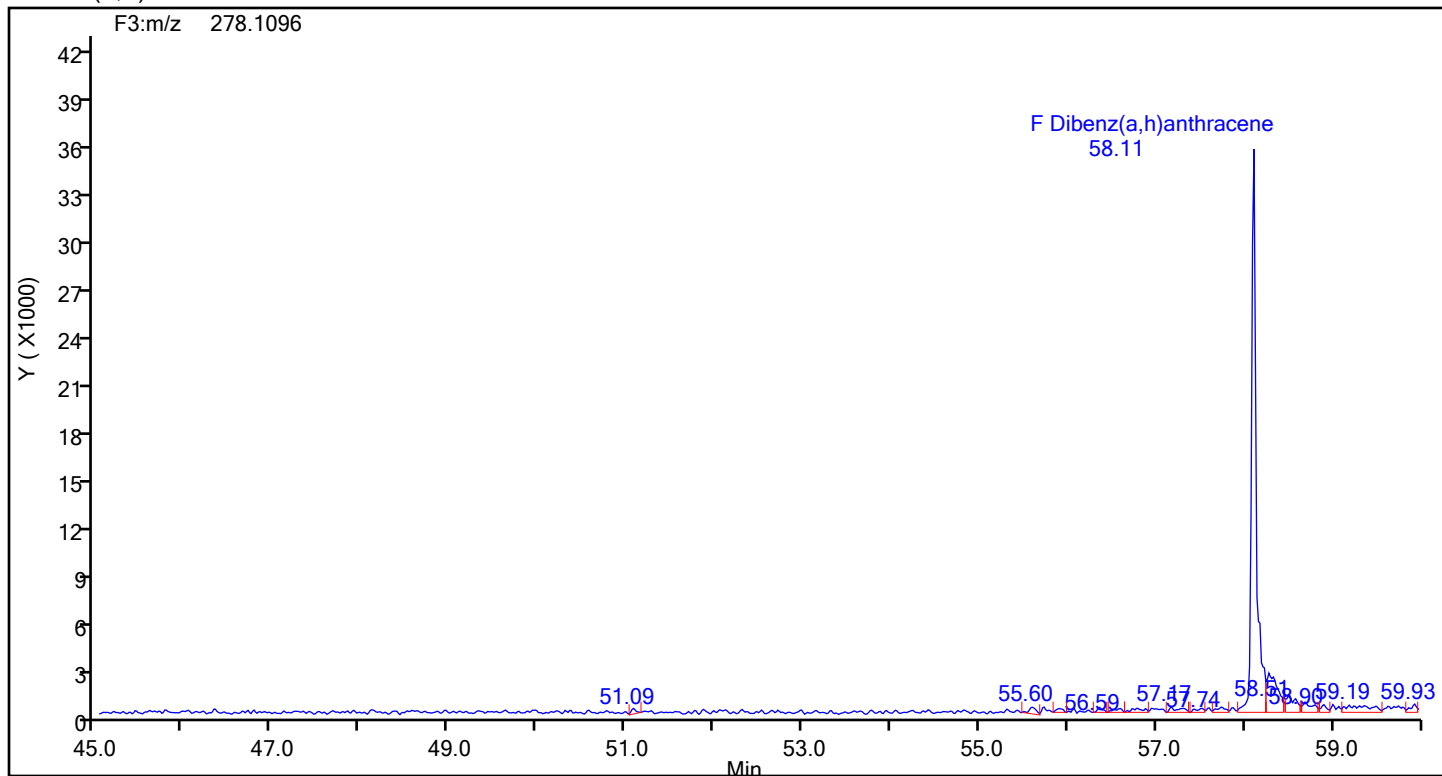
Reviewer: F9EE, 19-Jun-2024 18:49:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

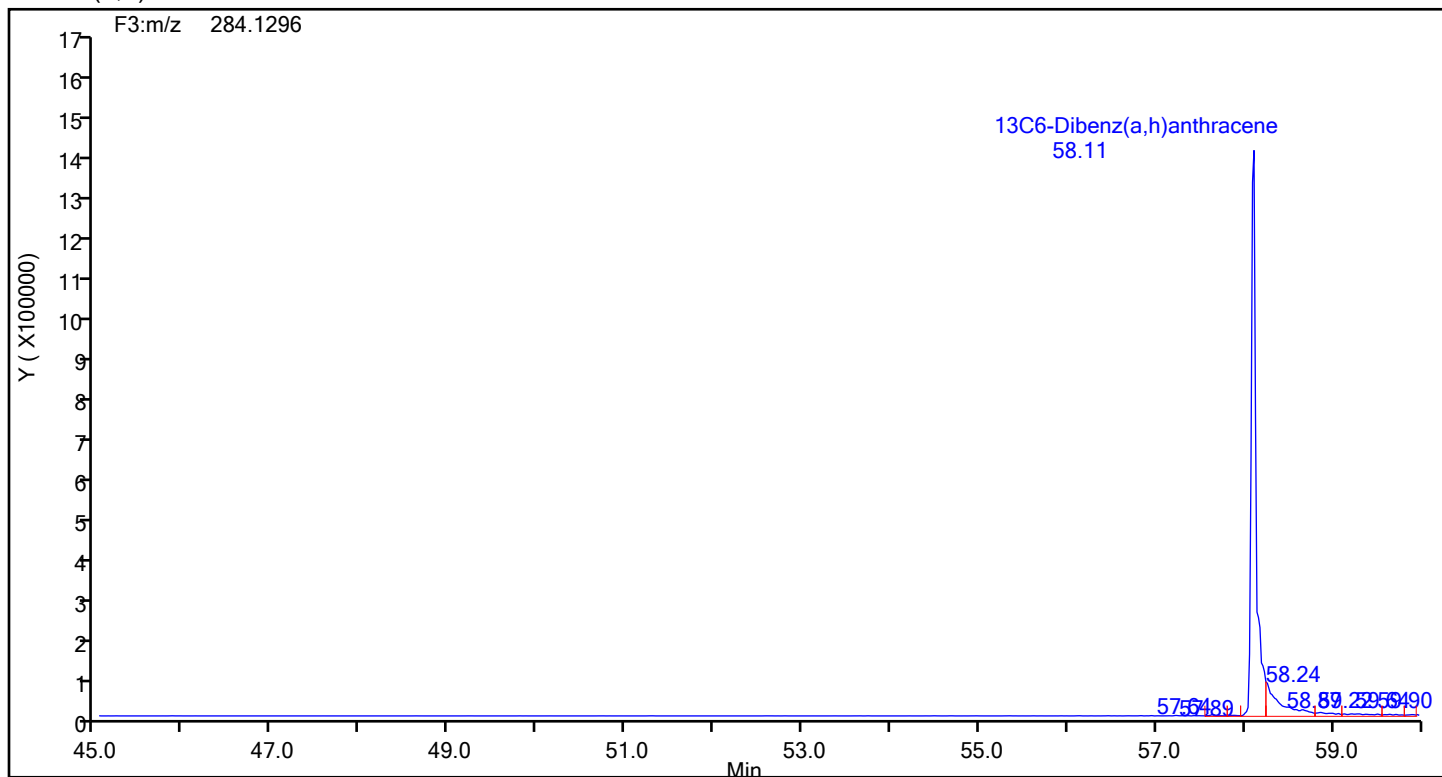
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Dibenz(a,h)anthracene



## Dibenzo(a,h)anthracene Standards



## Eurofins Knoxville

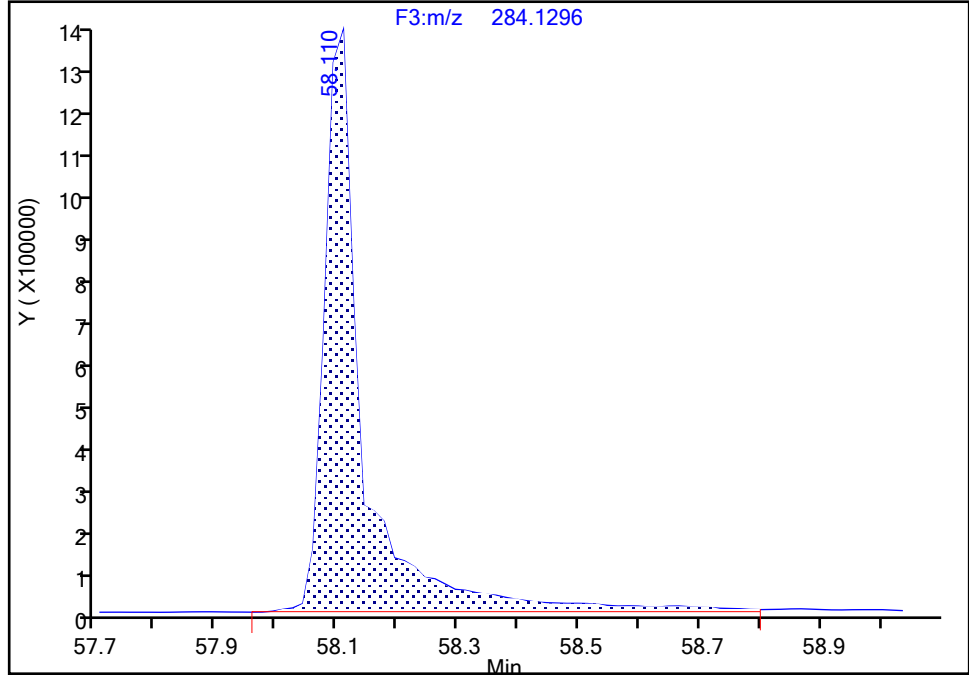
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic2.d  
Injection Date: 19-Jun-2024 17:38:00 Instrument ID: D3PAH  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Dibenz(a,h)anthracene, CAS: STL03360**

Signal: 1

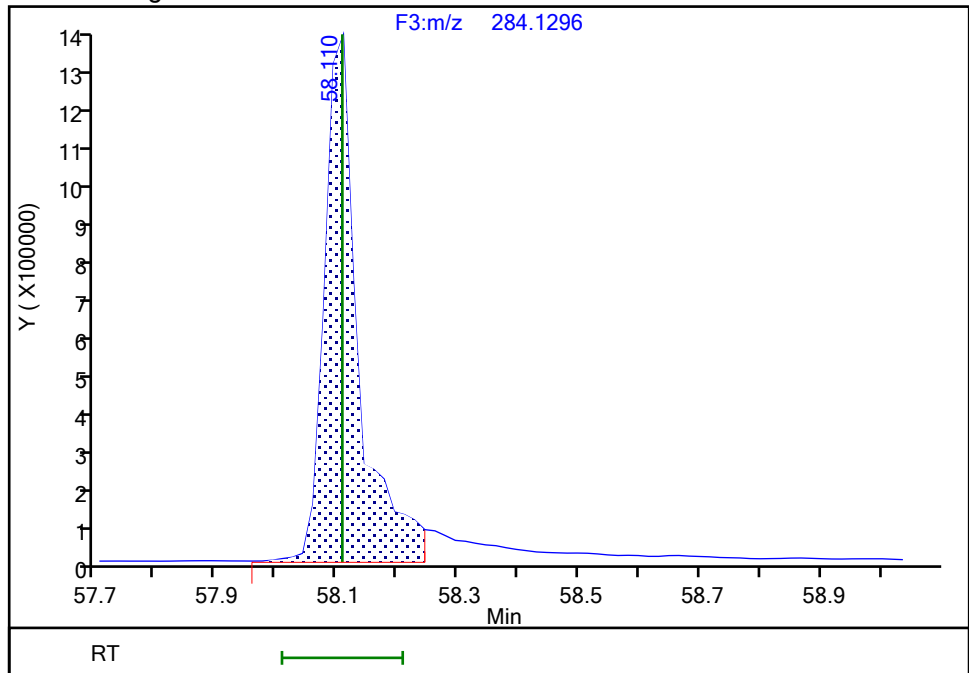
RT: 58.11  
Area: 6236111  
Amount: 110.5300  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.11  
Area: 5414078  
Amount: 102.0351  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 19-Jun-2024 18:49:02 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d  
Lims ID: IC L3  
Client ID:  
Sample Type: IC Calib Level: 3  
Inject. Date: 19-Jun-2024 18:42:00 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-003  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 20-Jun-2024 09:51:39 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:35:17

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	10437430		3.3746	101.6	101.6	0.006795	0.006795	102	
Naphthalene	11:34	1556415		1.2893	11.6	11.6	0.0248	0.0248	289	
D 13C6-2-Methylnaphthalene	13:52	4691404		1.6031	96.1	96.1	0.000298	0.000298	96.10	
2-Methylnaphthalene	13:53	659861		1.2786	11.0	11.0	0.0262	0.0262	275	
D 13C6-Acenaphthylene	16:45	4897592		1.6520	97.4	97.4	0.000405	0.000405	97.35	
Acenaphthylene	16:45	269411		2.3661	3.830	3.830	0.0191	0.0191	95.74	
* Acenaphthene-d10	17:20	3045309		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:27	2973262		0.9792	99.7	99.7	0.002634	0.002634	99.71	
Acenaphthene	17:27	257797		1.2697	6.829	6.829	0.0271	0.0271	171	
D 13C6-Fluorene	19:45	2635457		0.8898	97.3	97.3	0.000537	0.000537	97.26	
Fluorene	19:45	181920		1.2532	5.508	5.508	0.0246	0.0246	138	
D 13C6-Phenanthrene	25:08	3834191		0.5724	94.8	94.8	0.004649	0.004649	94.83	
Phenanthrene	25:08	238313		1.1044	5.628	5.628	0.0353	0.0353	141	
\$ Anthracin-d10	25:21	2851175		0.4257	94.8	94.8	0.000357	0.000357	94.82	
D 13C6-Anthracene	25:28	3047129		0.4523	95.4	95.4	0.005883	0.005883	95.37	
Anthracene	25:28	160718		1.3586	3.882	3.882	0.0379	0.0379	97.06	
D 13C6-Fluoranthrene	33:54	8154780		1.1994	96.3	96.3	0.0216	0.0216	96.26	
Fluoranthrene	33:54	396095		1.1513	4.219	4.219	0.0179	0.0179	105	
* Pyrene-d10	35:27	7063080		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:35	9131545		1.3512	95.7	95.7	0.0146	0.0146	95.68	
Pyrene	35:35	427111		1.0652	4.391	4.391	0.0176	0.0176	110	
\$ 13C6-Benzo(c)fluorene	39:18	3665129		0.5136	101.0	101.0	0.005478	0.005478	101	
D 13C6-Benzo(a)anthracene	46:07	7504068		1.5189	100.3	100.3	0.0152	0.0152	100	
Benzo[a]anthracene	46:07	282836		0.9739	3.870	3.870	0.0144	0.0144	96.76	
D 13C6-Chrysene	46:24	7844204		1.6287	97.7	97.7	0.0142	0.0142	97.75	
Chrysene	46:25	347139		0.9815	4.509	4.509	0.0145	0.0145	113	
D 13C6-Benzo(b)fluoranthene	54:40	6808556		1.4621	94.5	94.5	0.001125	0.001125	94.51	
Benzo[b]fluoranthene	54:40	379738		1.1249	4.958	4.958	0.008828	0.008828	124	
\$ 13C12-Benzo(j)fluoranthene	54:42	6337903		1.3558	94.9	94.9	0.0173	0.0173	94.87	
D 13C6-Benzo(k)fluoranthene	54:47	8218810		1.7507	95.3	95.3	0.000940	0.000940	95.28	
Benzo[k]fluoranthene	54:47	351417		1.1271	3.794	3.794	0.007793	0.007793	94.84	
* Benzo(e)pyrene-d12	55:30	4927202		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:35	7853527		1.6368	97.4	97.4	0.0105	0.0105	97.38	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	316746		1.0013	4.028	4.028	0.006974	0.006974	101	
Benzo[a]pyrene	55:44	318019		1.1130	3.956	3.956	0.007428	0.007428	98.90	
D 13C4-Benzo(a)pyrene	55:44	7222186		1.5508	94.5	94.5	0.0111	0.0111	94.52	
D Perylene-d12	55:54	5628212		1.1917	95.9	95.9	0.0162	0.0162	95.85	
Perylene	55:58	330090		1.4307	4.099	4.099	0.006406	0.006406	102	
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	4630053		1.0218	92.0	92.0	0.009539	0.009539	91.96	
Indeno[1,2,3-cd]pyrene	58:03	203445		1.1249	3.906	3.906	0.009054	0.009054	97.65	
D 13C6-Dibenz(a,h)anthracene	58:07	4776504		1.0553	91.9	91.9	0.005196	0.005196	91.86	M
Dibenz(a,h)anthracene	58:07	210948		1.1314	3.904	3.904	0.007161	0.007161	97.59	M
D 13C12-Benzo(ghi)perylene	58:30	5830946		1.2749	92.8	92.8	0.003106	0.003106	92.83	M
Benzo[g,h,i]perylene	58:31	301308		1.2838	4.025	4.025	0.007142	0.007142	101	M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS3\_00003

Amount Added: 20.00

Units: uL



Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d  
 Lims ID: IC L3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 19-Jun-2024 18:42:00 ALS Bottle#: 0 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033168-003  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Sublist: chrom-EPA\_23\_\_PAH\*sub1  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAAH ICAL  
 Last Update: 20-Jun-2024 09:51:39 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:35:17

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	0	0.666	10437430	3484116	96	240	36293		
Naphthalene											
128.0626	11:34	11:34	0	1.001	1556415	509599	446	1115	1143		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	0	0.800	4691404	2108259	2	5	1054130		
2-Methylnaphthalene											
142.0783	13:53	13:53	0	1.001	659861	294187	283	707	1040		
13C6-Acenaphthylene											
158.0828	16:45	16:45	0	0.966	4897592	1726905	3	7	575635		
Acenaphthylene											
152.0626	16:45	16:45	0	1.000	269411	95497	187	467	511		
Acenaphthene-d10											
164.1404	17:20	17:20	0		3045309	1046726	6	15	174454		
13C6-Acenaphthene											
160.0984	17:27	17:27	0	1.007	2973262	1032608	11	27	93873		
Acenaphthene											
154.0783	17:27	17:27	0	1.000	257797	90217	142	355	635		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.139	2635457	796176	2	5	398088		
Fluorene											
166.0783	19:45	19:45	0	1.000	181920	53149	98	245	542		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	3834191	902063	14	35	64433		
Phenanthrene											
178.0783	25:08	25:08	0	1.000	238313	57984	141	352	411		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:21	25:21	0	0.715	2851175	640515	1	2	640515		
13C6-Anthracene											
184.0984	25:28	25:28	0	0.718	3047129	683124	14	35	48795		
Anthracene											
178.0783	25:28	25:28	0	1.000	160718	37402	141	352	265		
13C6-Fluoranthrene											
208.0984	33:54	33:54	0	0.956	8154780	1562778	136	340	11491		
Fluoranthene											
202.0783	33:54	33:54	0	1.000	396095	78237	129	322	606		
Pyrene-d10											
212.1404	35:27	35:27	0		7063080	1315153	50	125	26303		
13C3-Pyrene											
205.0883	35:35	35:35	0	1.004	9131545	1718572	104	260	16525		
Pyrene											
202.0783	35:35	35:35	0	1.000	427111	79383	129	322	615		
13C6-Benzo(c)fluorene											
222.1134	39:18	39:18	0	0.708	3665129	673027	15	37	44868		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	0	1.301	7504068	1334701	152	380	8781		
Benzo[a]anthracene											
228.0939	46:07	46:07	0	1.000	282836	50962	75	187	679		
13C6-Chrysene											
234.1140	46:24	46:24	0	1.309	7844204	1313857	152	380	8644		
Chrysene											
228.0939	46:25	46:25	0	1.000	347139	58344	75	187	778		
13C6-Benzo(b)fluoranthene											
258.1140	54:40	54:40	0	0.985	6808556	1812534	11	27	164776		
Benzo[b]fluoranthene											
252.0939	54:40	54:40	0	1.000	379738	101987	72	180	1416		
13C12-Benzo(j)fluoranthene											
264.1336	54:42	54:42	0	0.985	6337903	1650721	154	385	10719		
13C6-Benzo(k)fluoranthene											
258.1140	54:47	54:47	0	0.987	8218810	2049415	11	27	186311		
Benzo[k]fluoranthene											
252.0939	54:47	54:47	0	1.000	351417	91356	72	180	1269		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	0		4927202	1641398	127	317	12924		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	0	1.002	7853527	2577674	113	282	22811		
Benzo[e]pyrene											
252.0939	55:35	55:35	0	1.000	316746	107782	72	180	1497		
Benzo[a]pyrene											
252.0939	55:44	55:44	0	1.000	318019	97222	72	180	1350		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:44	55:44	0	1.004	7222186	2177246	113	282	19268		
Perylene-d12											
264.1692	55:54	55:54	0	1.007	5628212	1964028	127	317	15465		
Perylene											
252.0939	55:58	55:58	0	1.001	330090	107390	72	180	1492		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:02	0	1.046	4630053	1423655	64	160	22245		
Indeno[1,2,3-cd]pyrene											
276.0939	58:03	58:03	0	1.000	203445	66835	58	145	1152		
13C6-Dibenz(a,h)anthracene											
284.1296	58:07	58:07	0	1.047	4776504	1357735	36	90	37715		M
Dibenz(a,h)anthracene											
278.1096	58:07	58:07	0	1.000	210948	59990	44	110	1363		M
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	5830946	1581495	26	65	60827		M
Benzo[g,h,i]perylene											
276.0939	58:31	58:31	0	1.000	301308	83672	58	145	1443		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS3\_00003

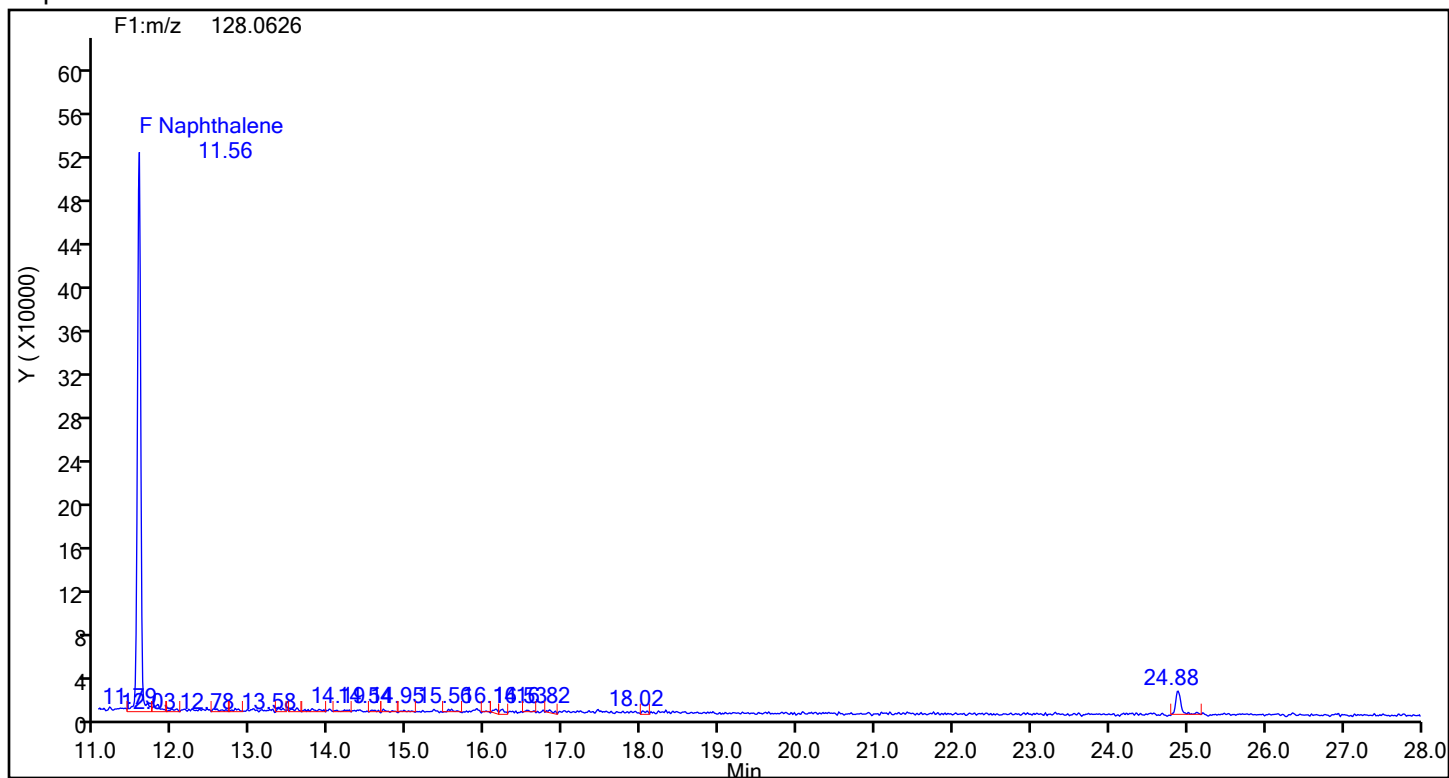
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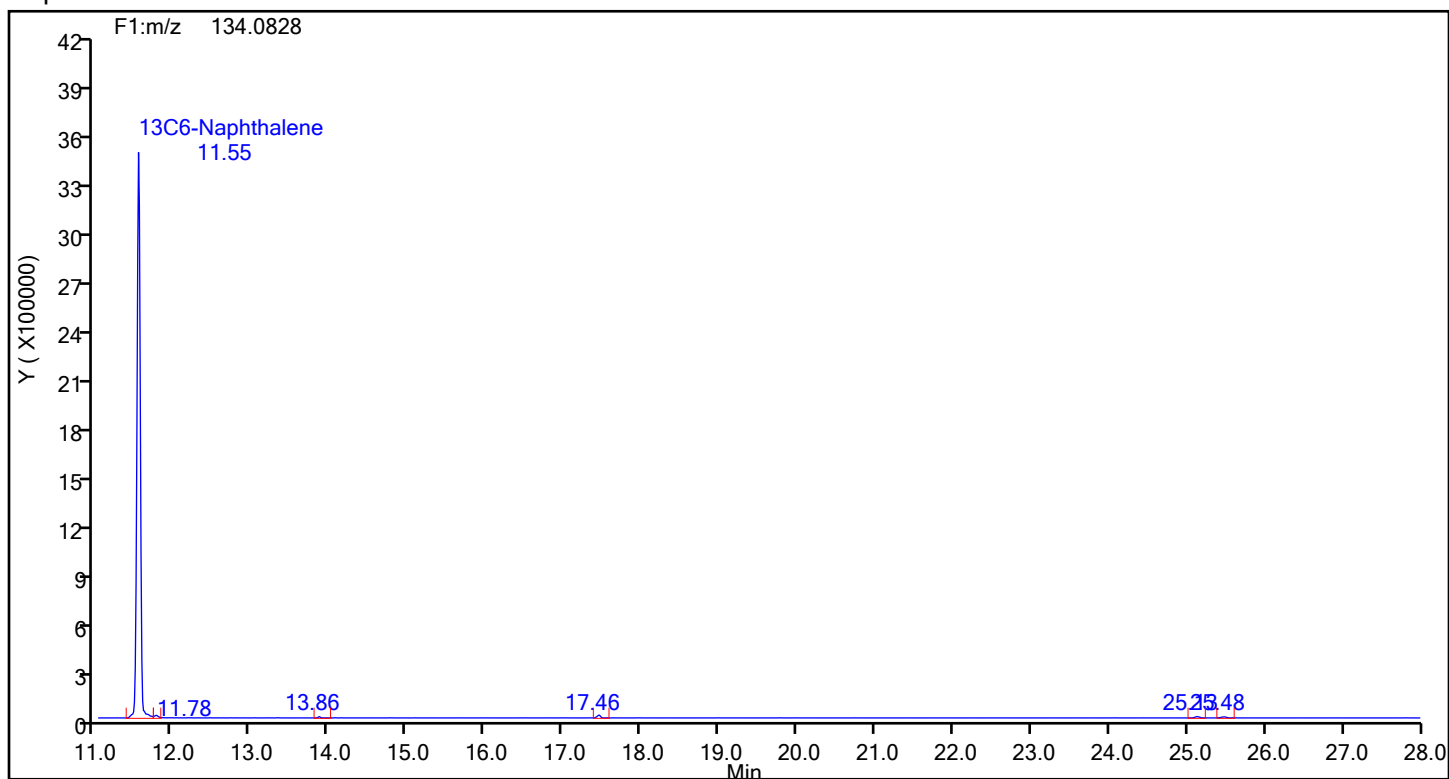
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



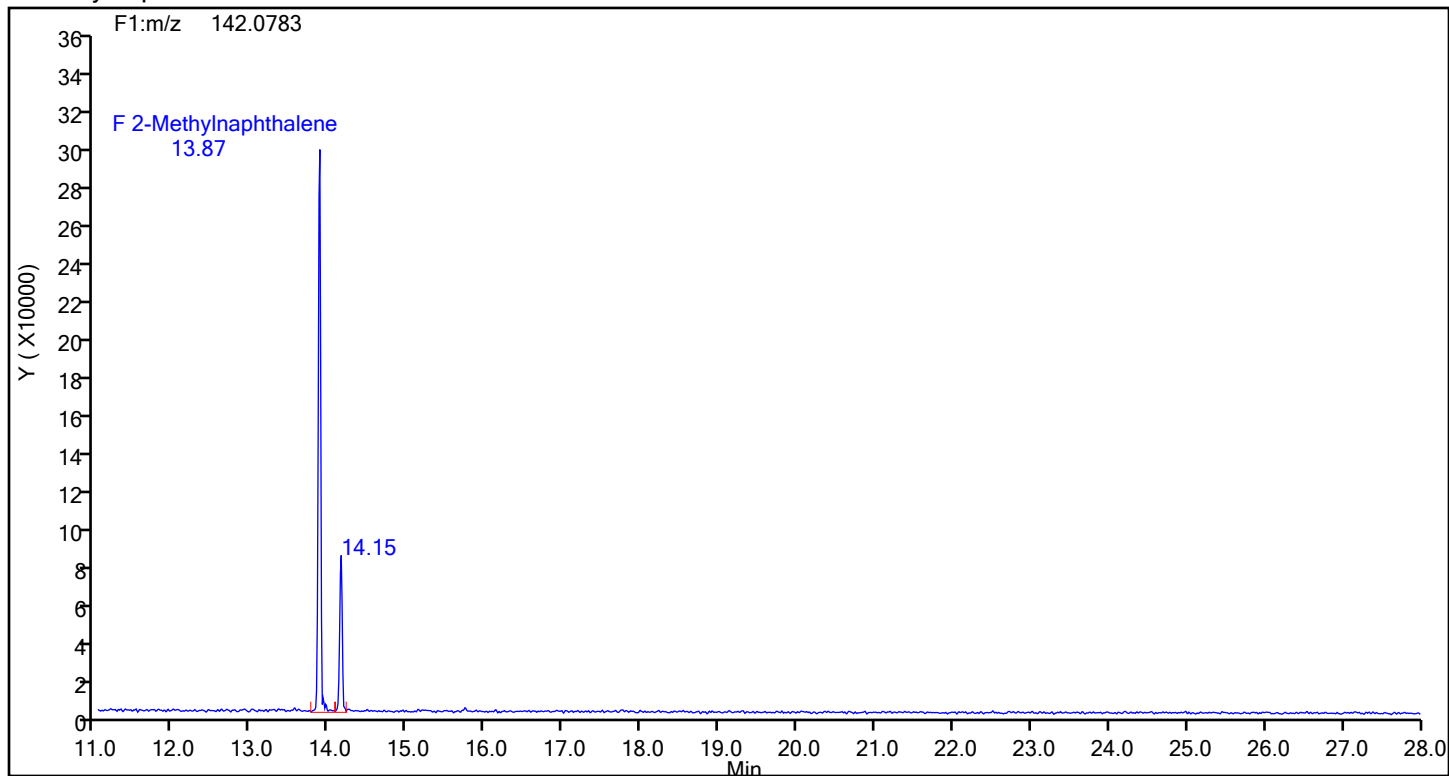
## Naphthalene Standards



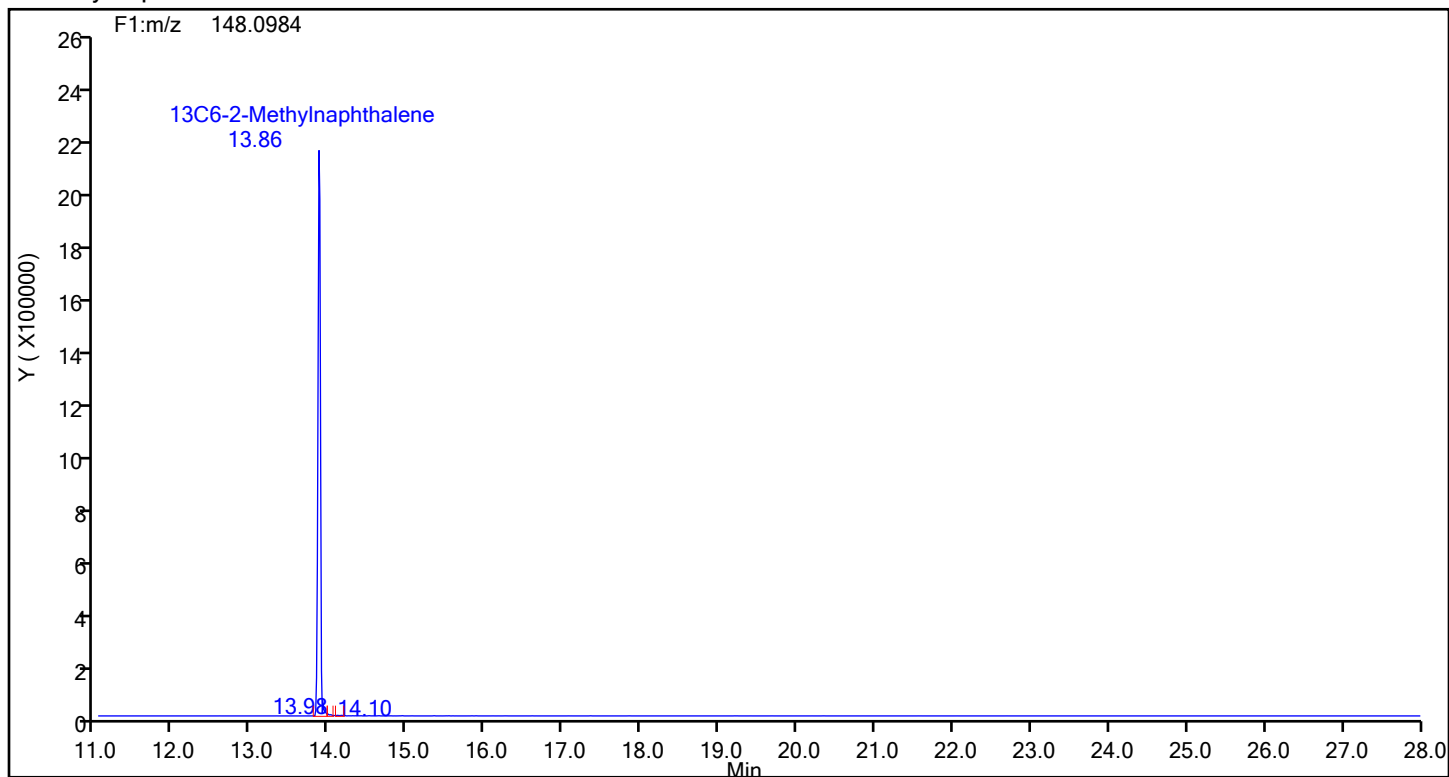
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



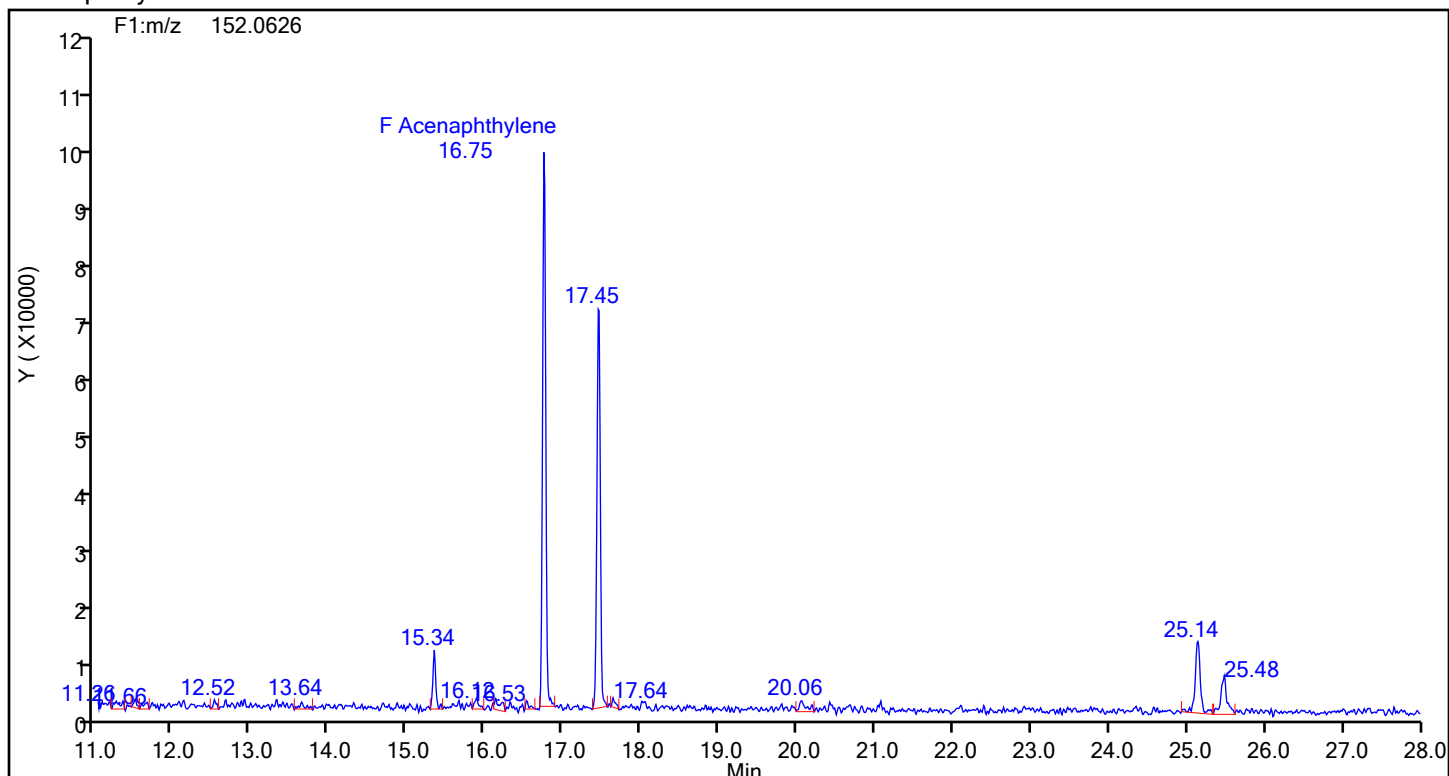
## 2-Methylnaphthalene Standards



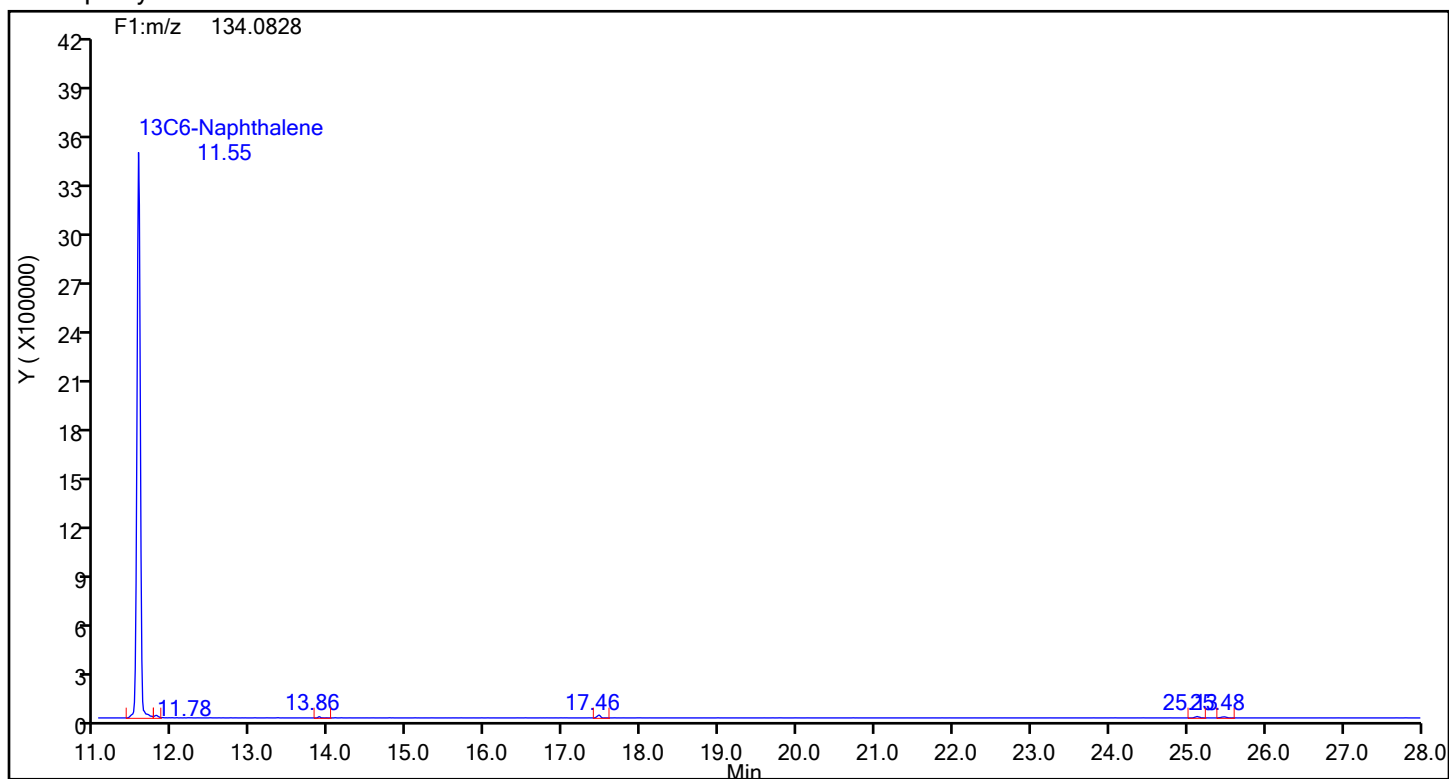
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Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



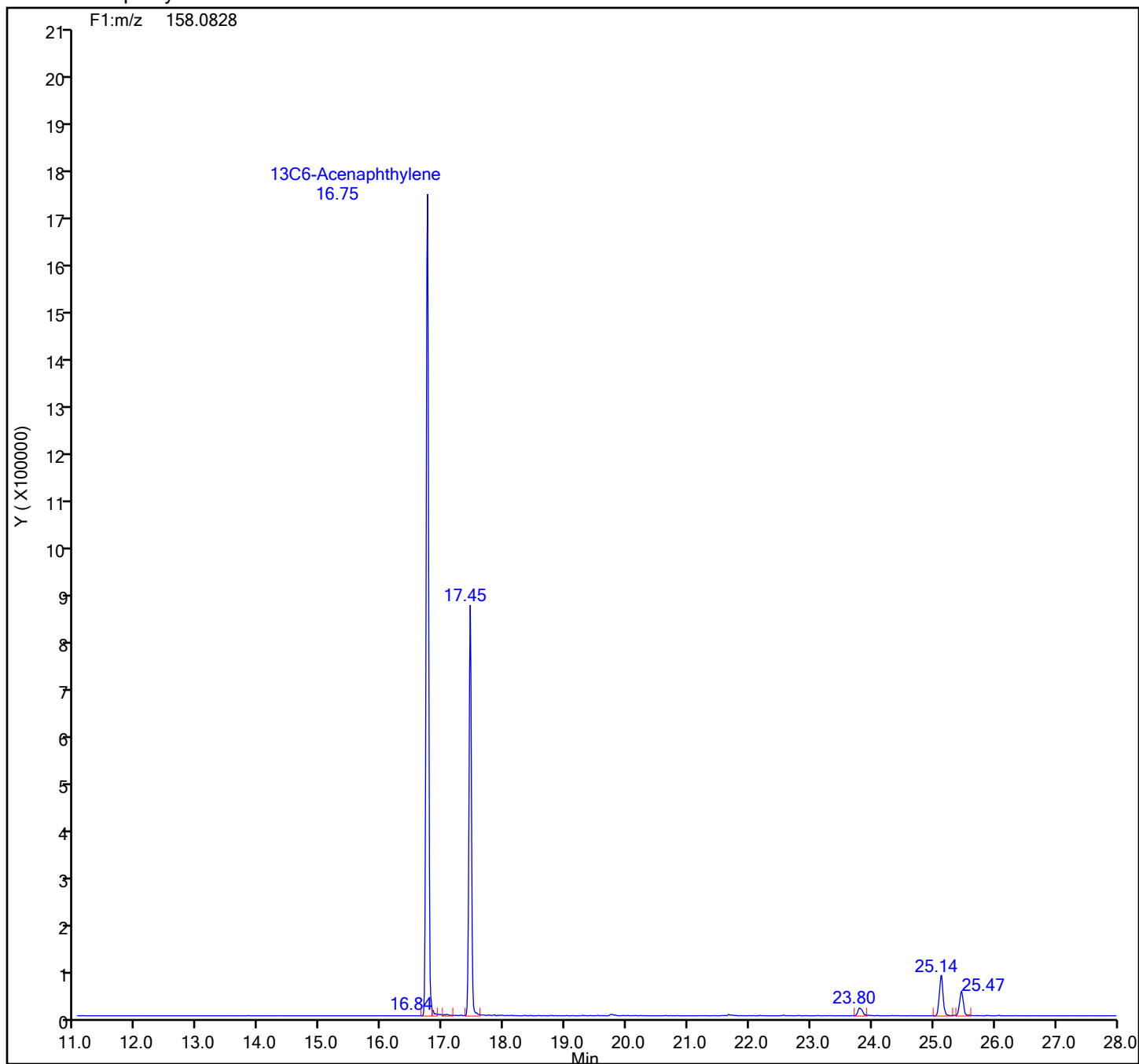
## Acenaphthylene Standards



## Eurofins Knoxville

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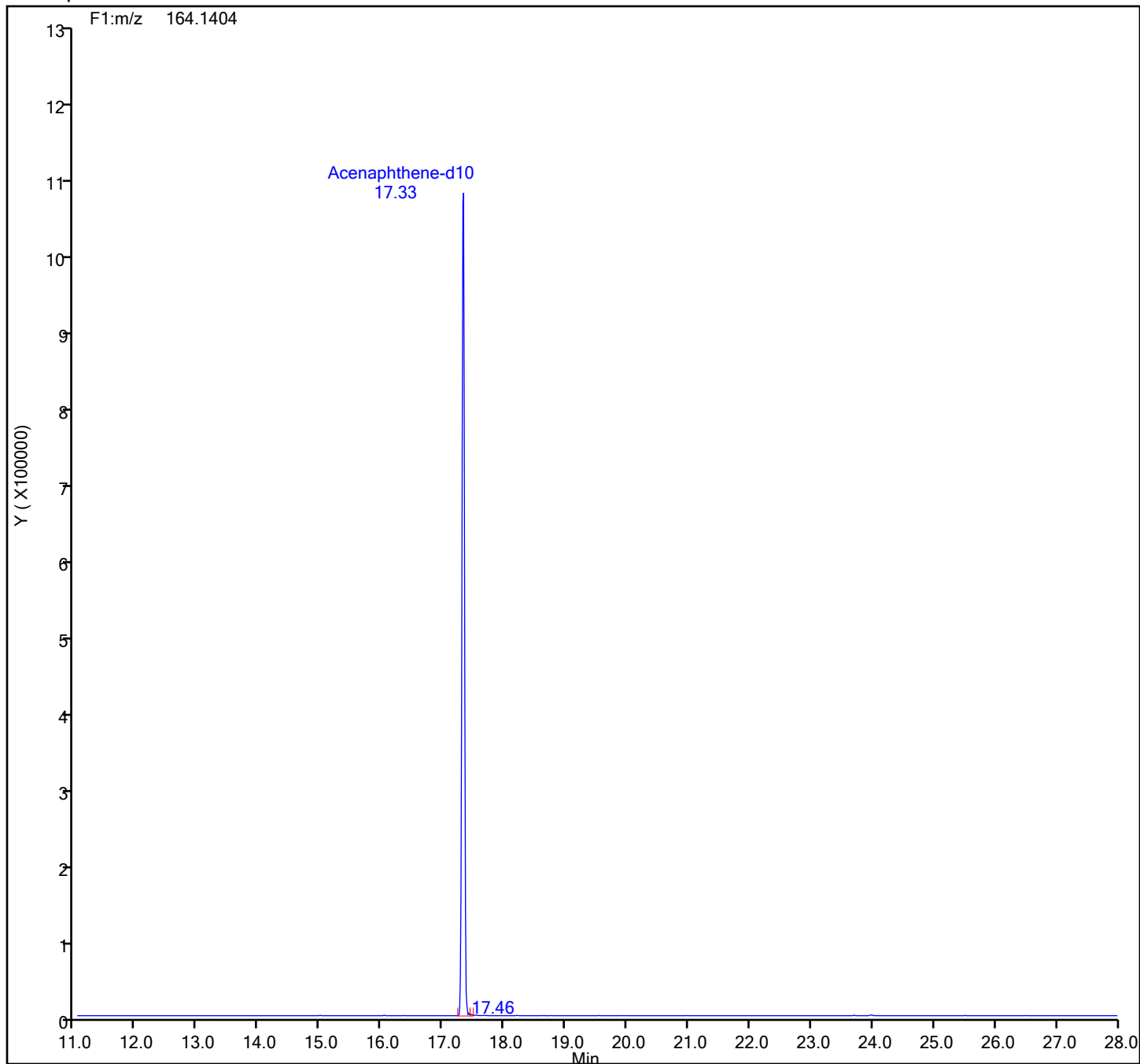
## 13C6-Acenaphthylene Standards



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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene-d10 Standards

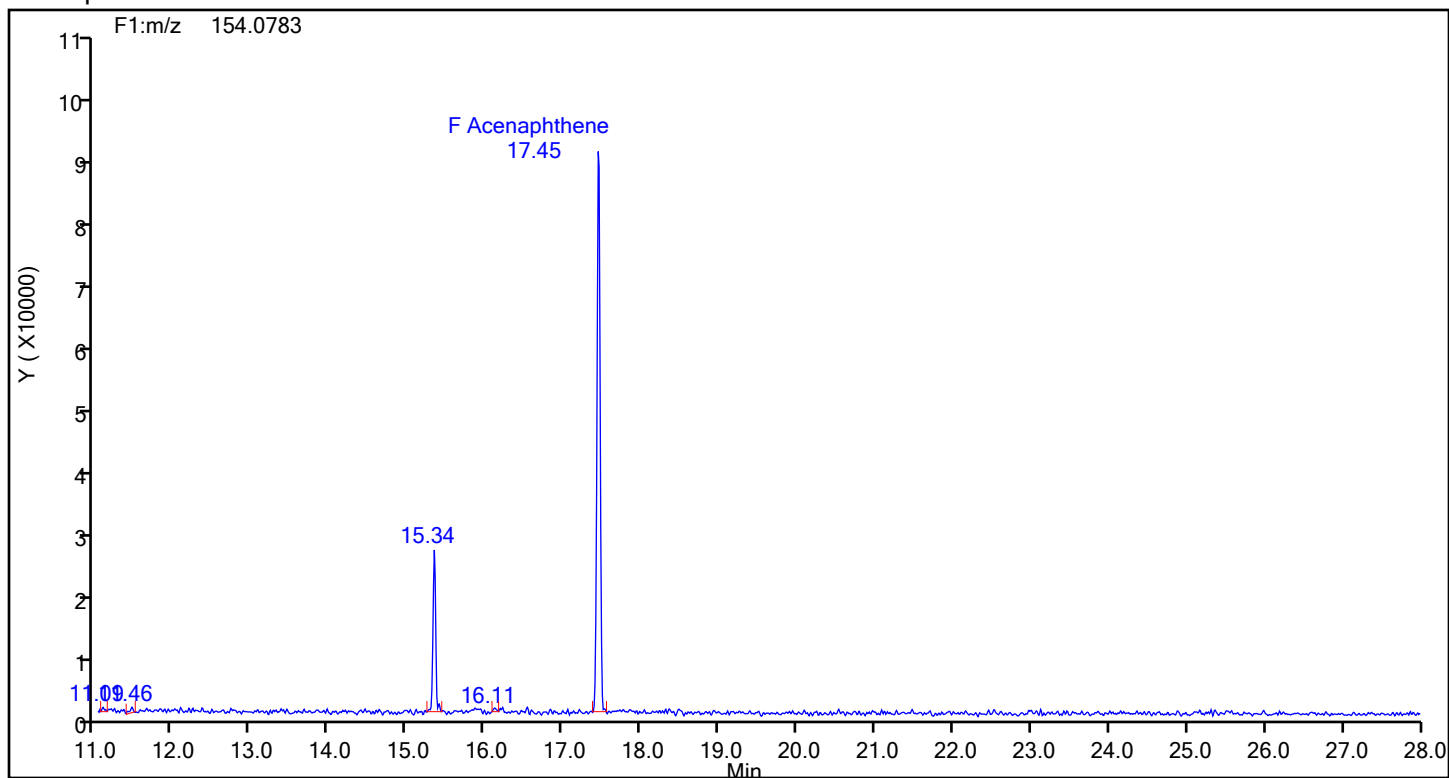




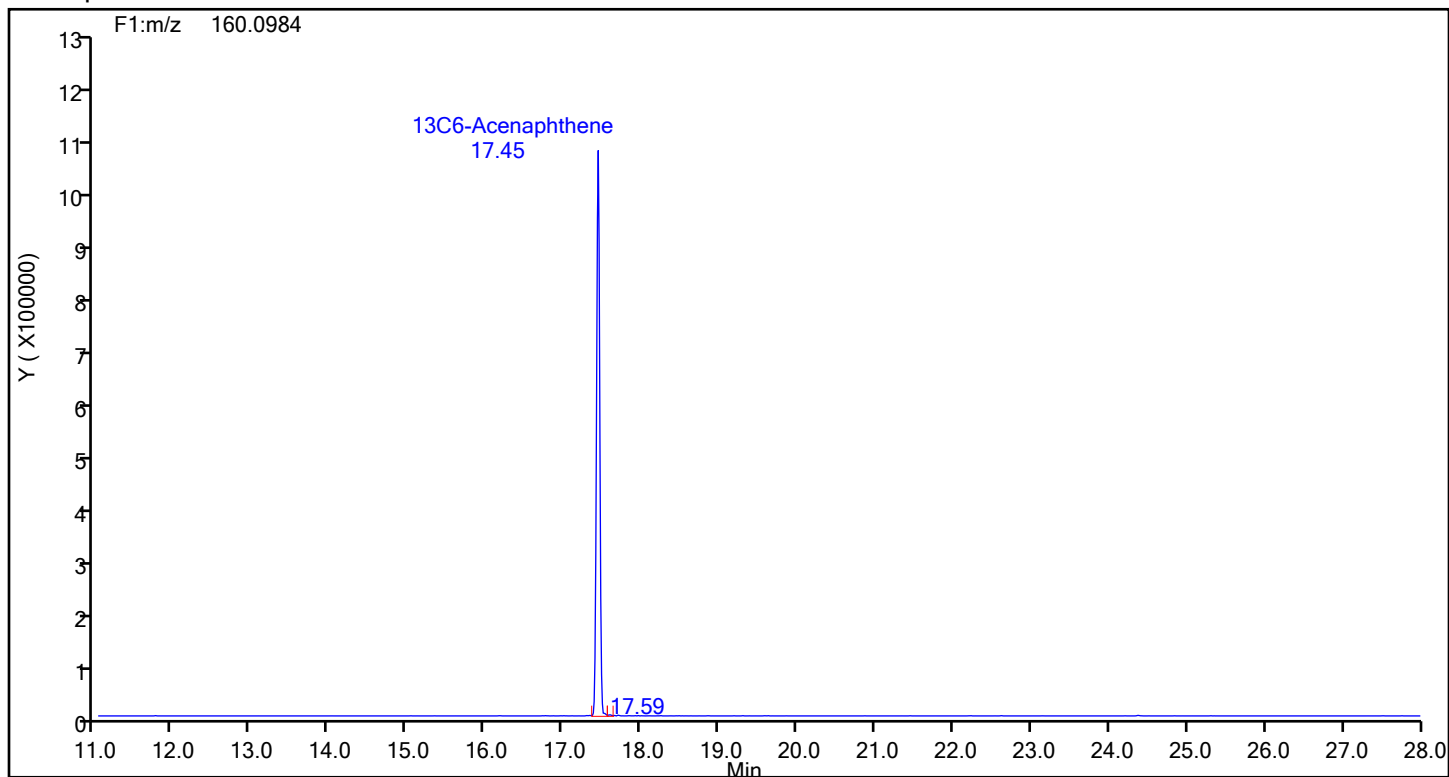
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Acenaphthene			

Acenaphthene

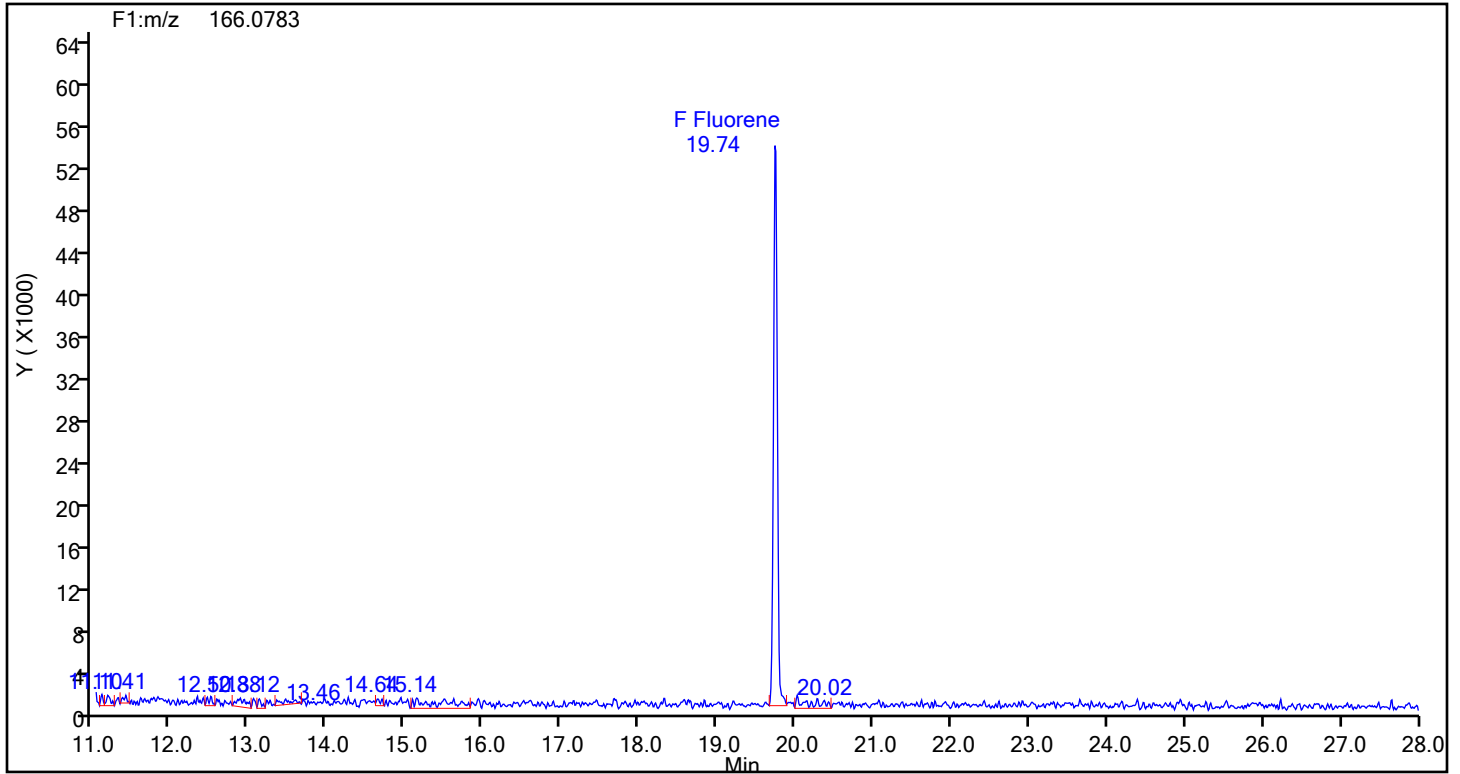


## Acenaphthene Standards

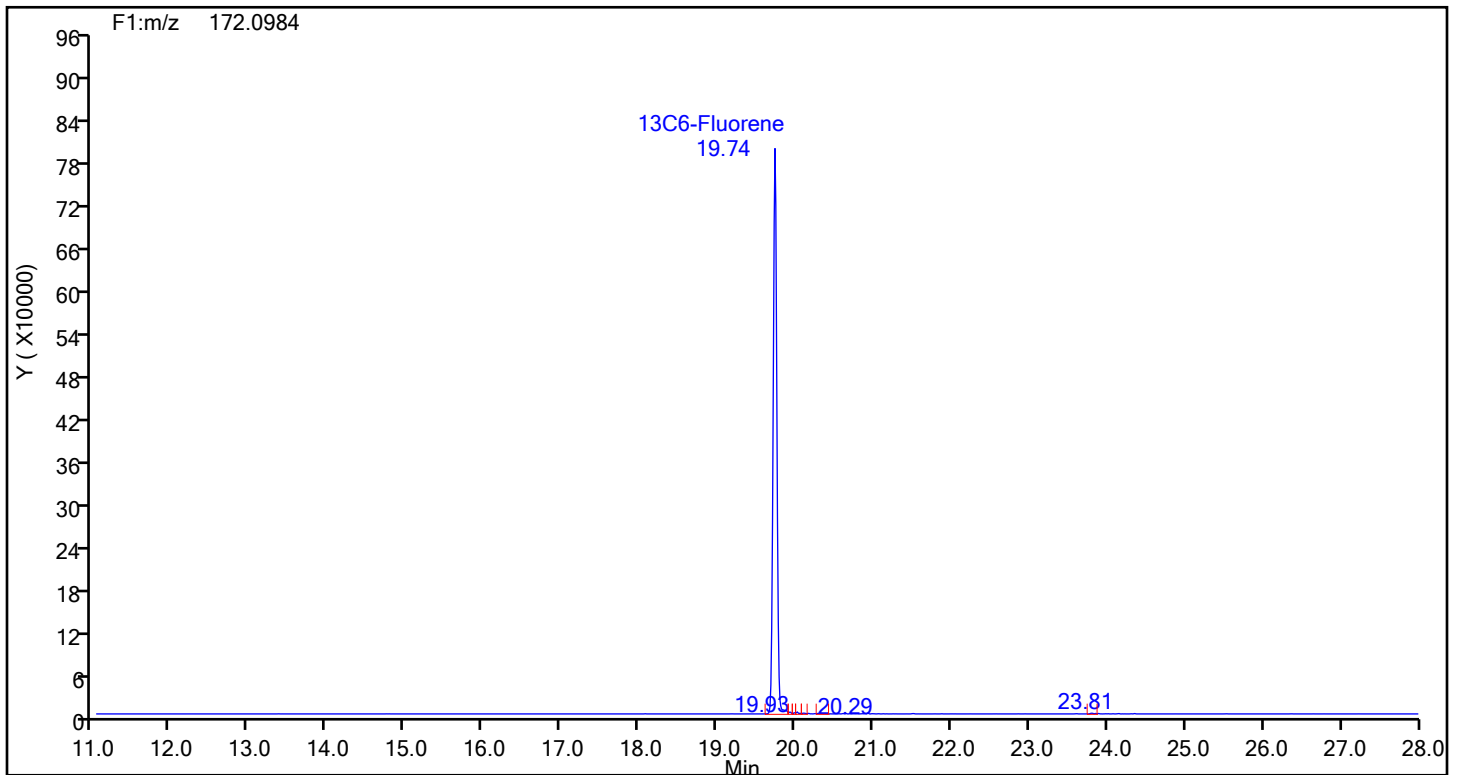


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Fluorene

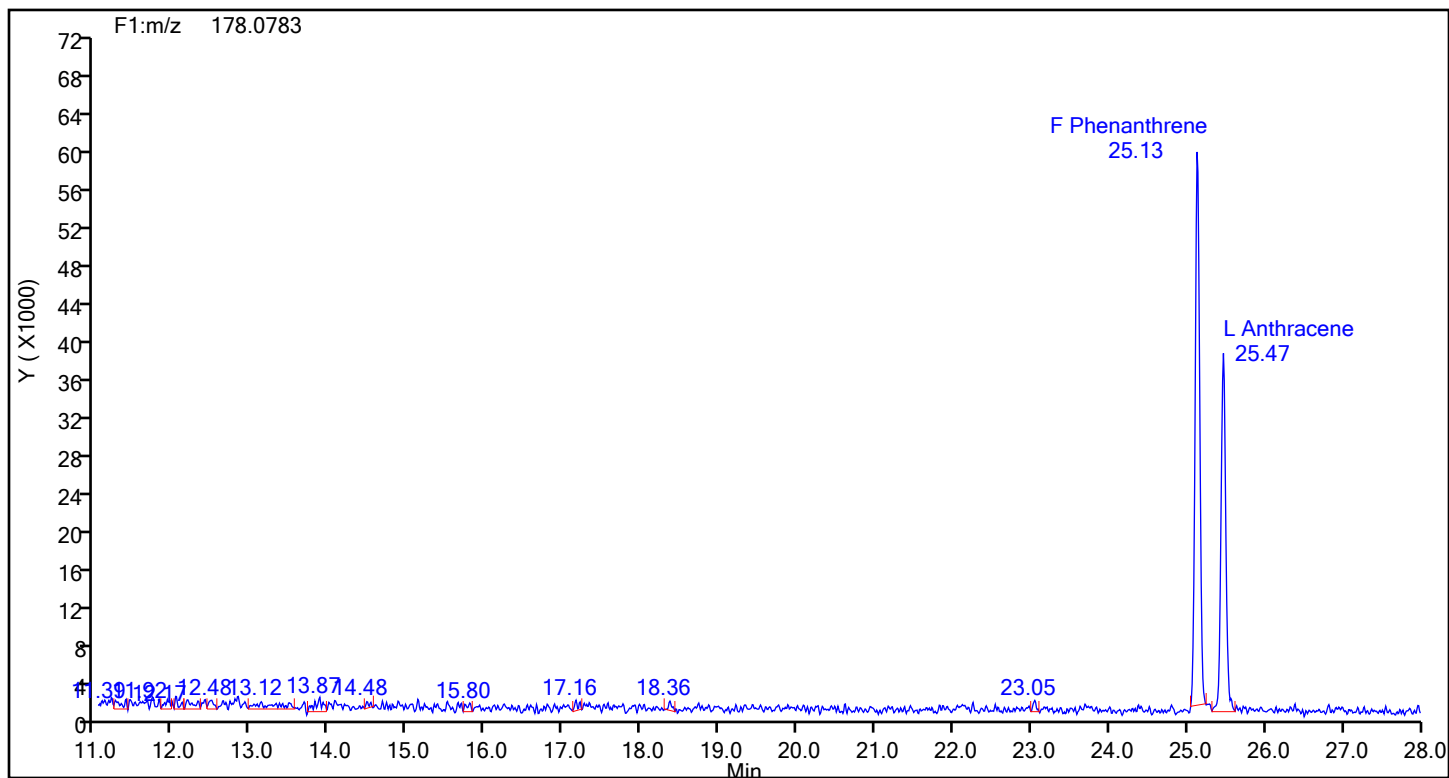


## Fluorene Standards

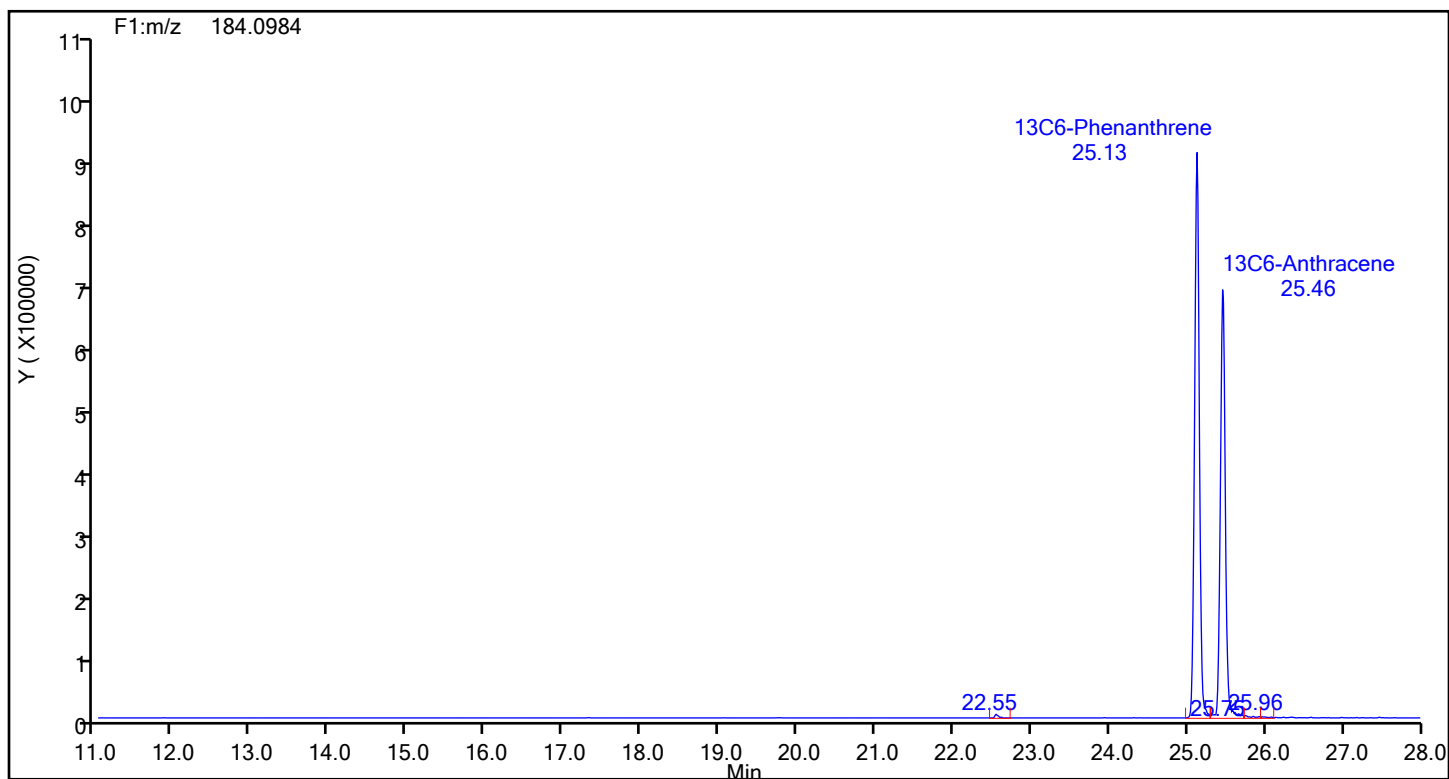


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Phenanthrene

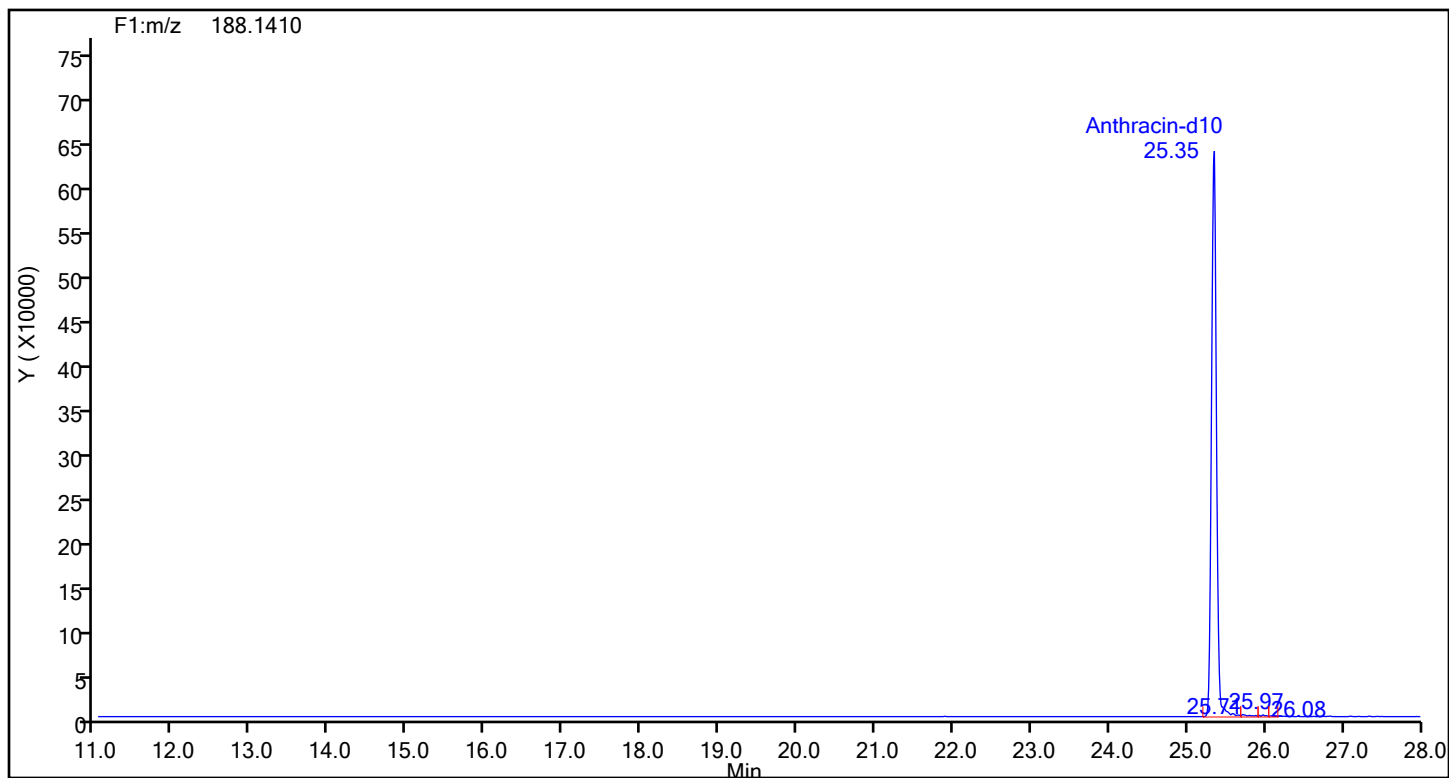


## Phenanthrene Standards

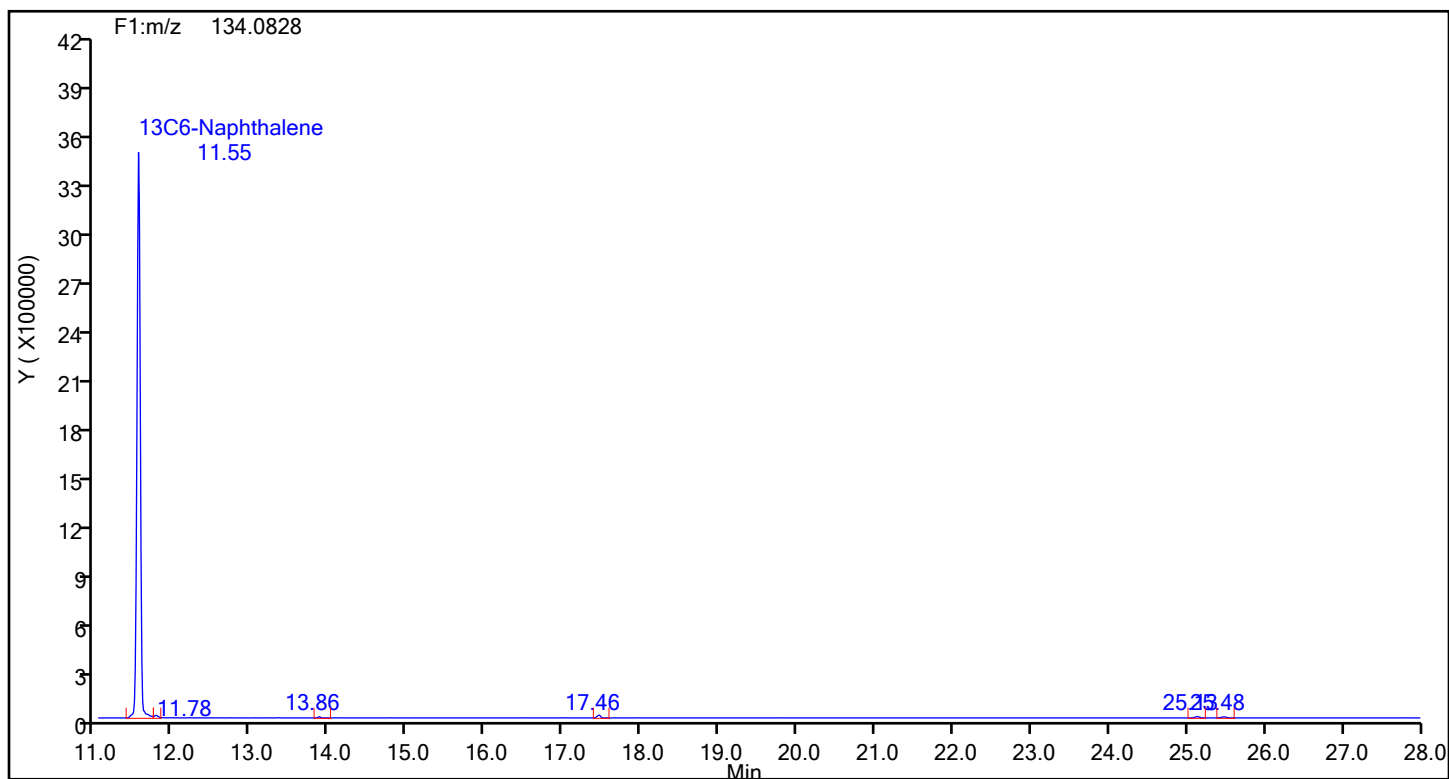


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Anthracin-d10

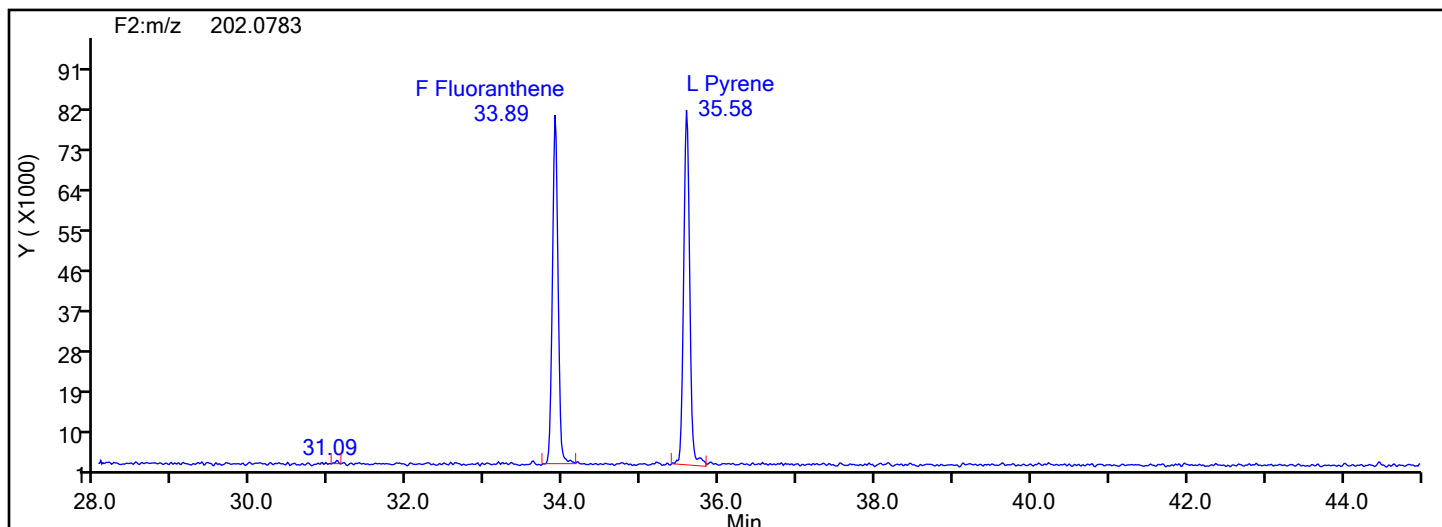


## Anthracin-d10 Standards

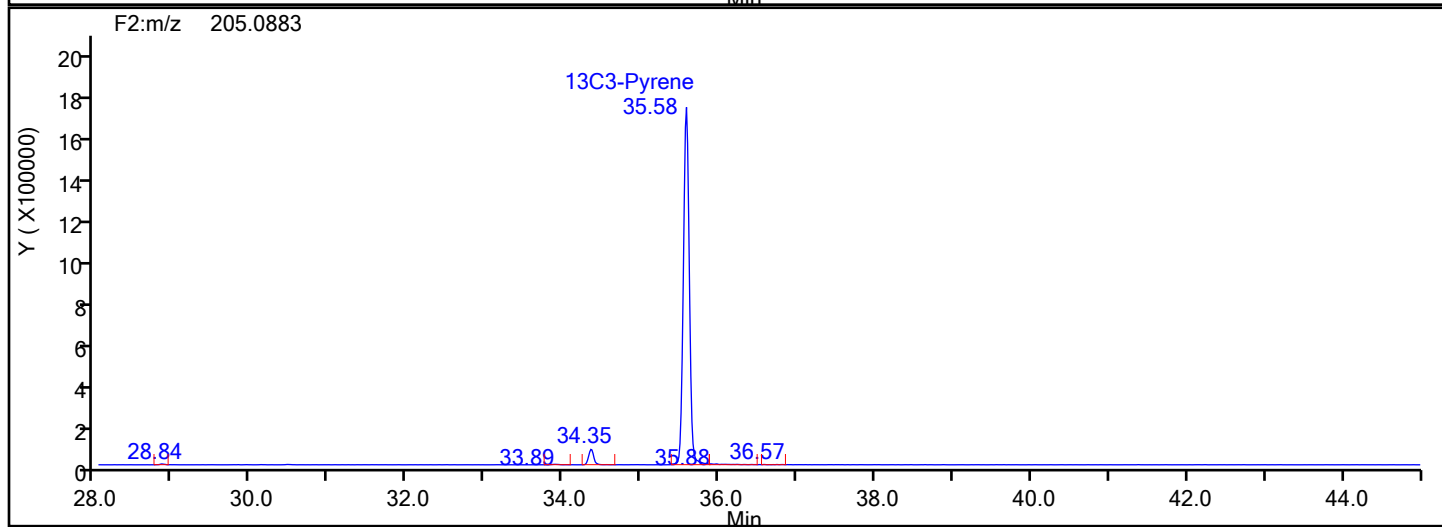
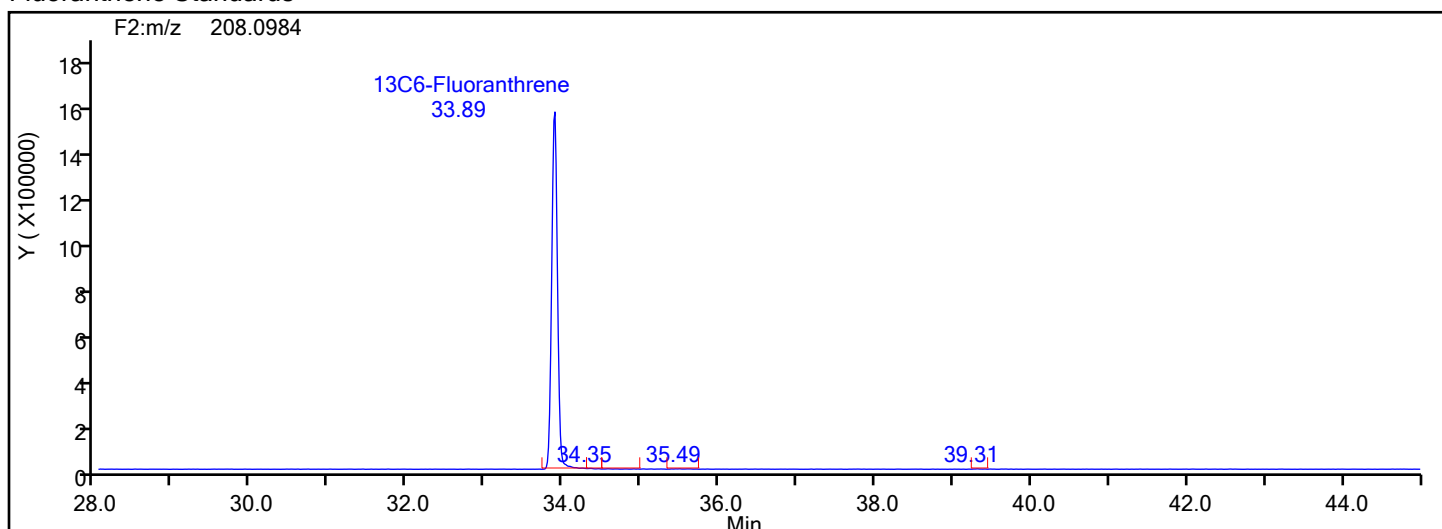


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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



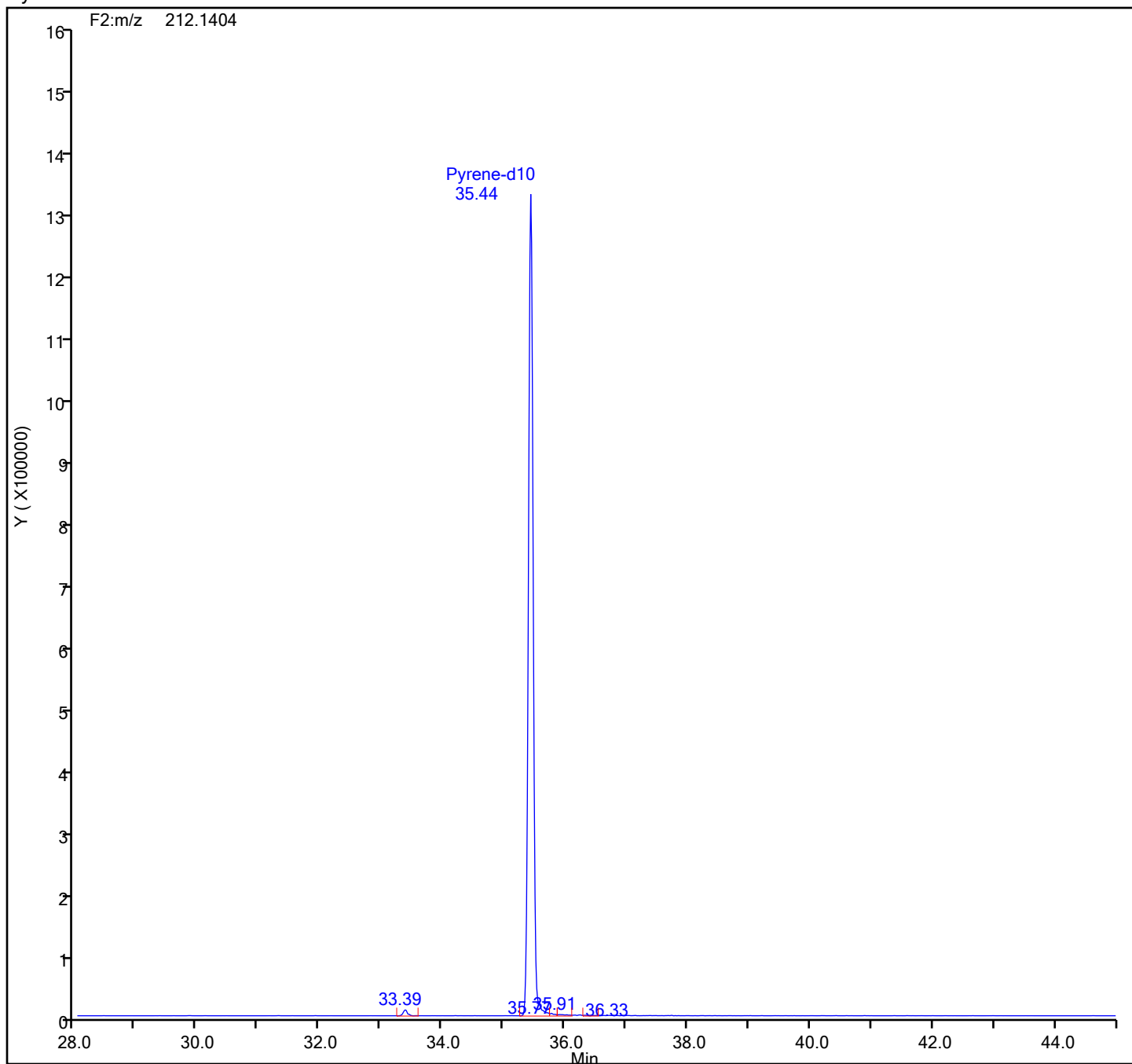
## Fluoranthene Standards



## Eurofins Knoxville

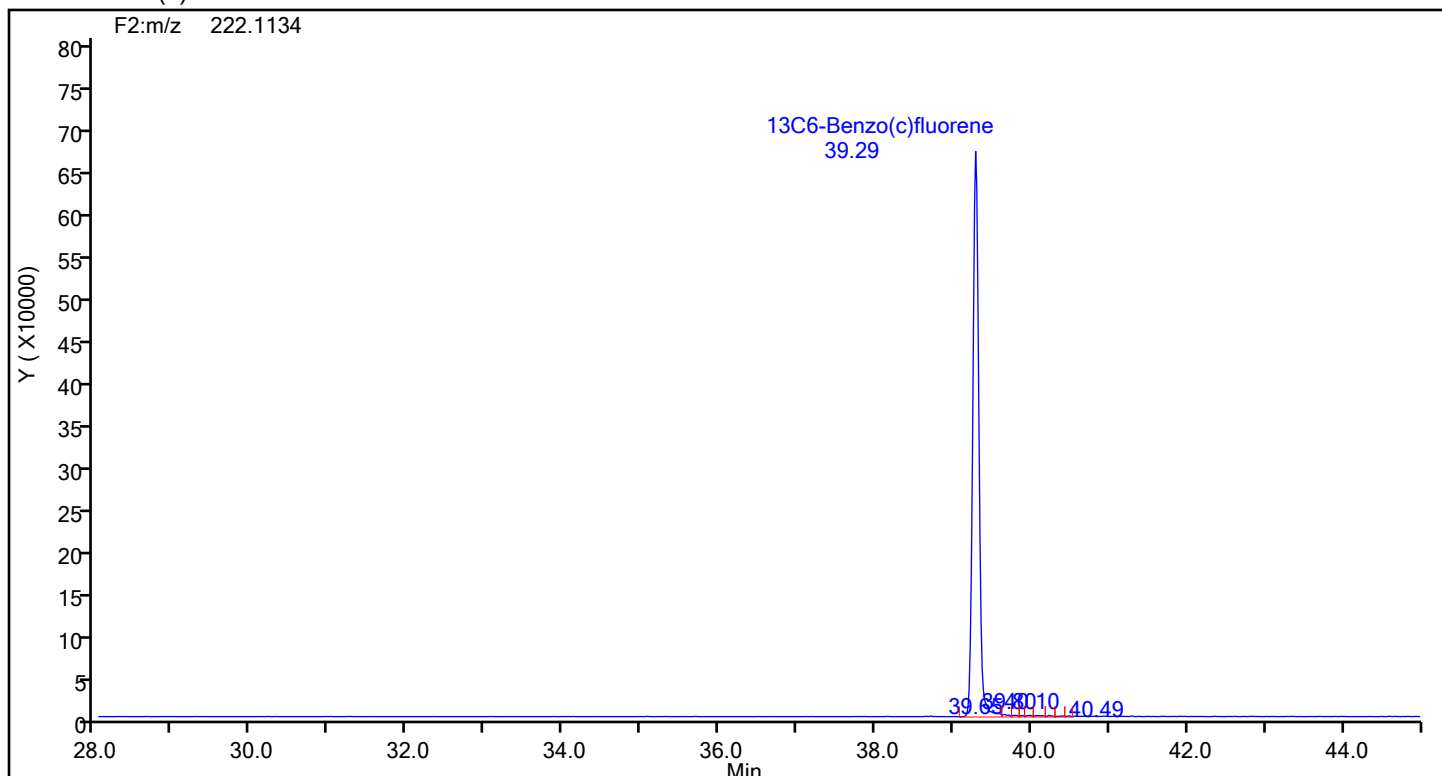
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene-d10 Standards

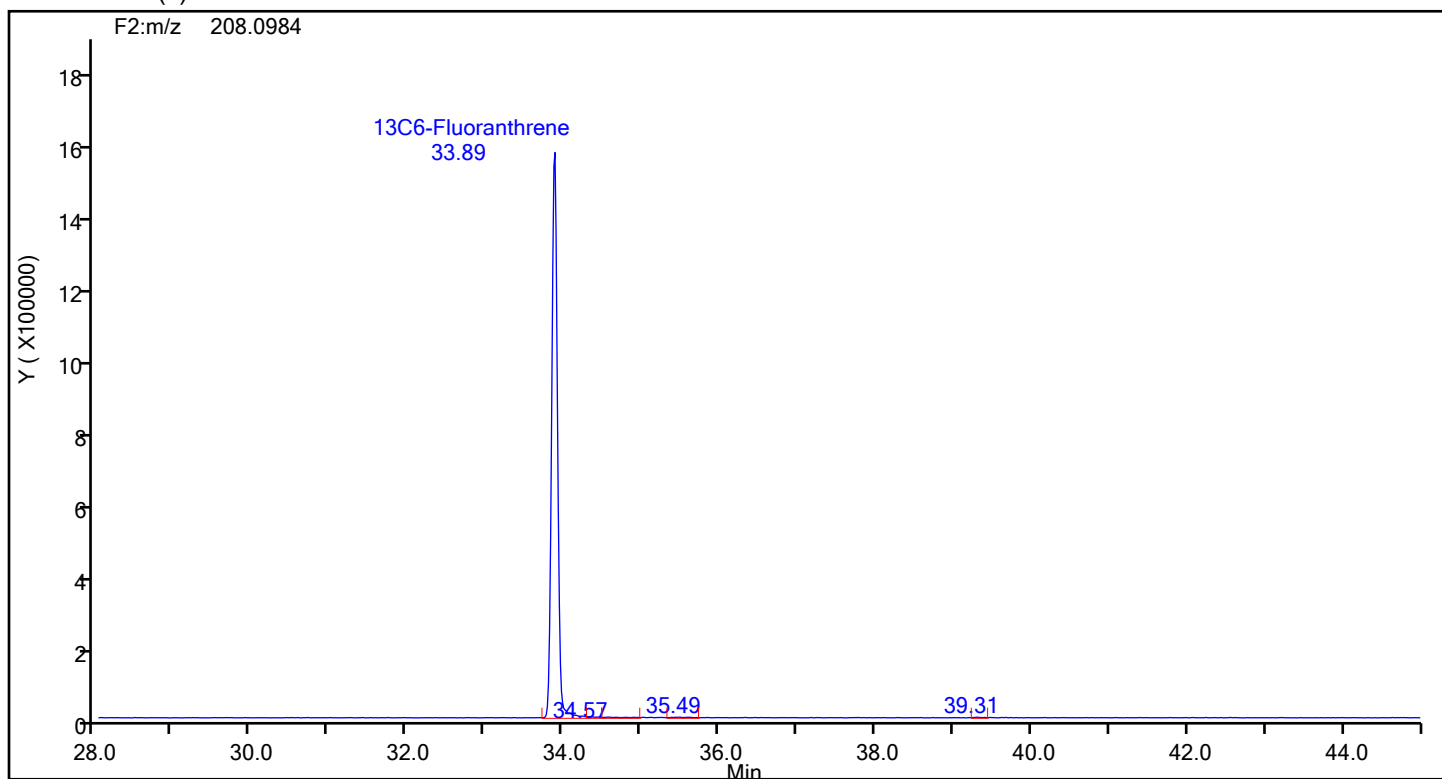


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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
13C6-Benzo(c)fluorene



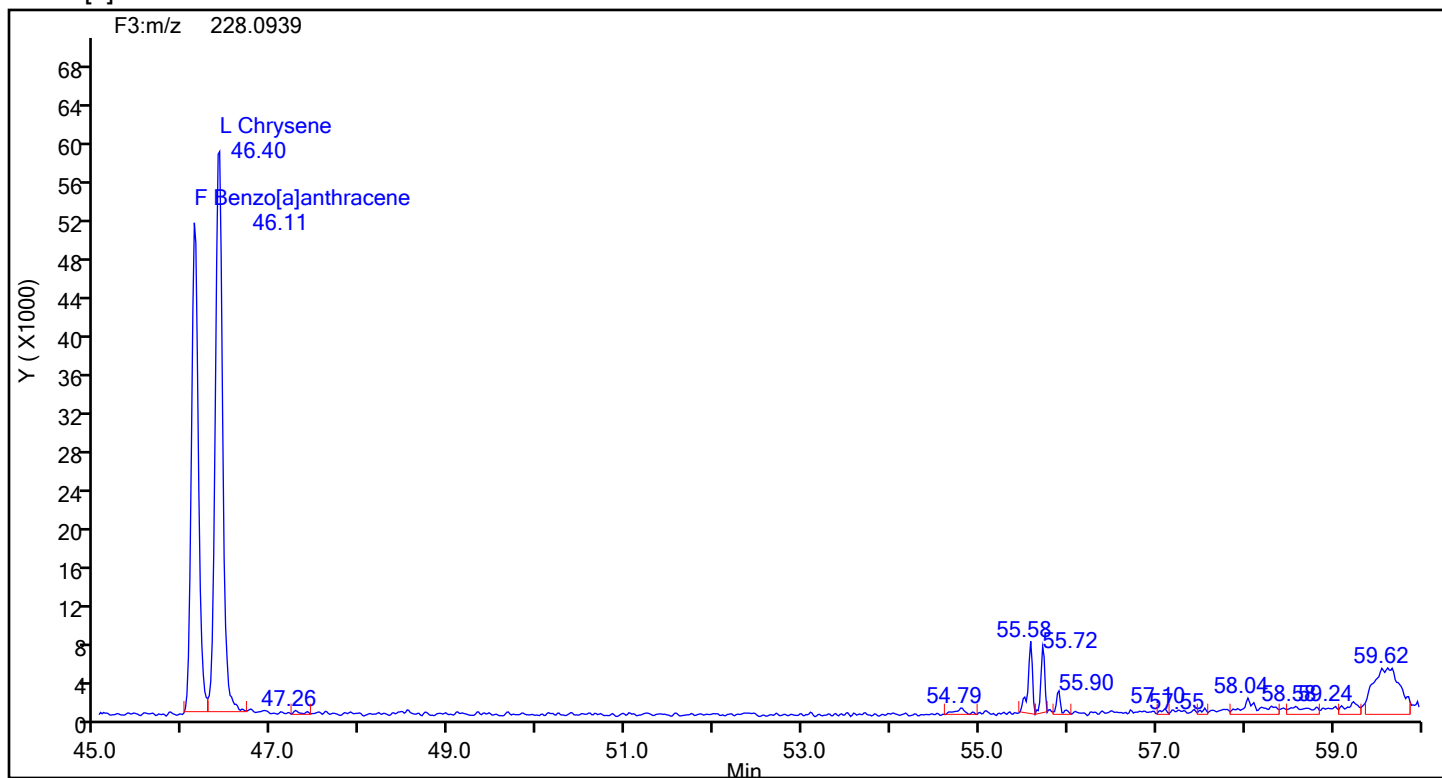
## 13C6-Benzo(c)fluorene Standards



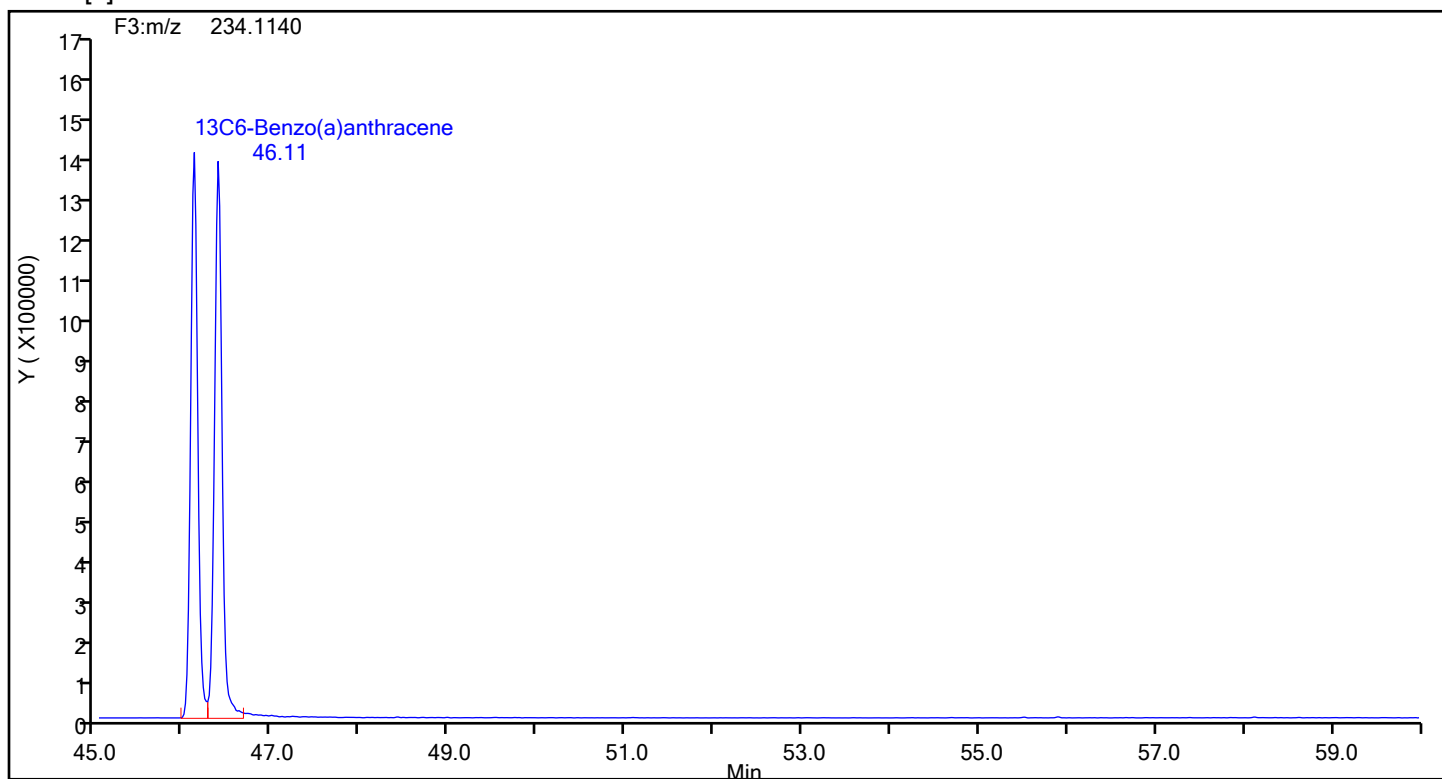
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



## Benzo[a]anthracene Standards

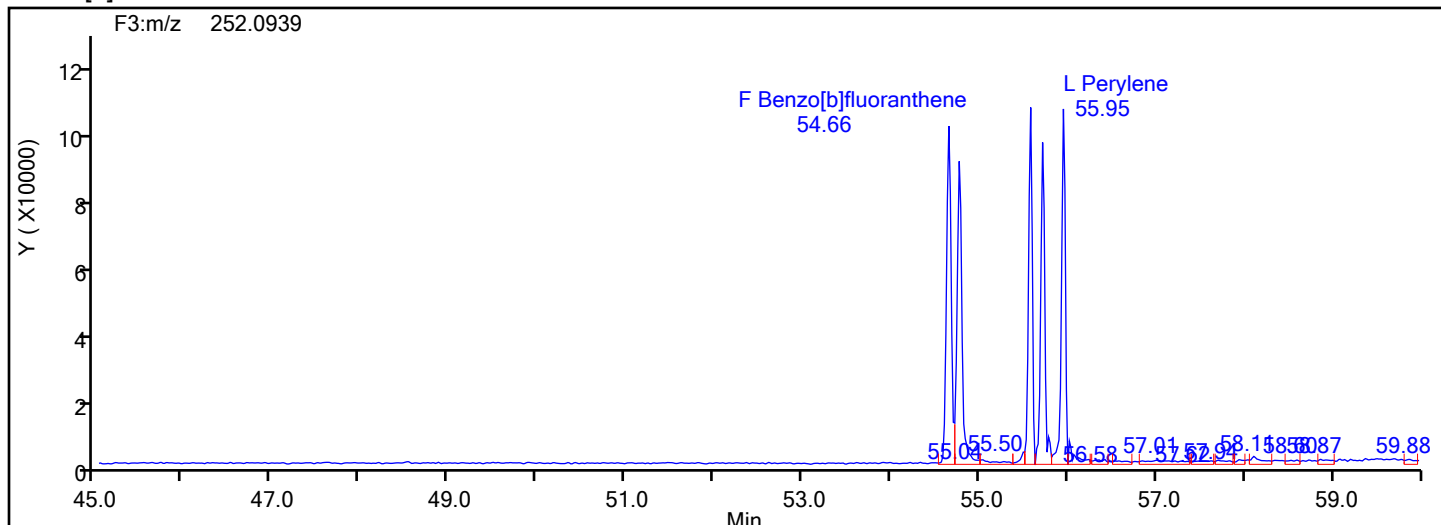




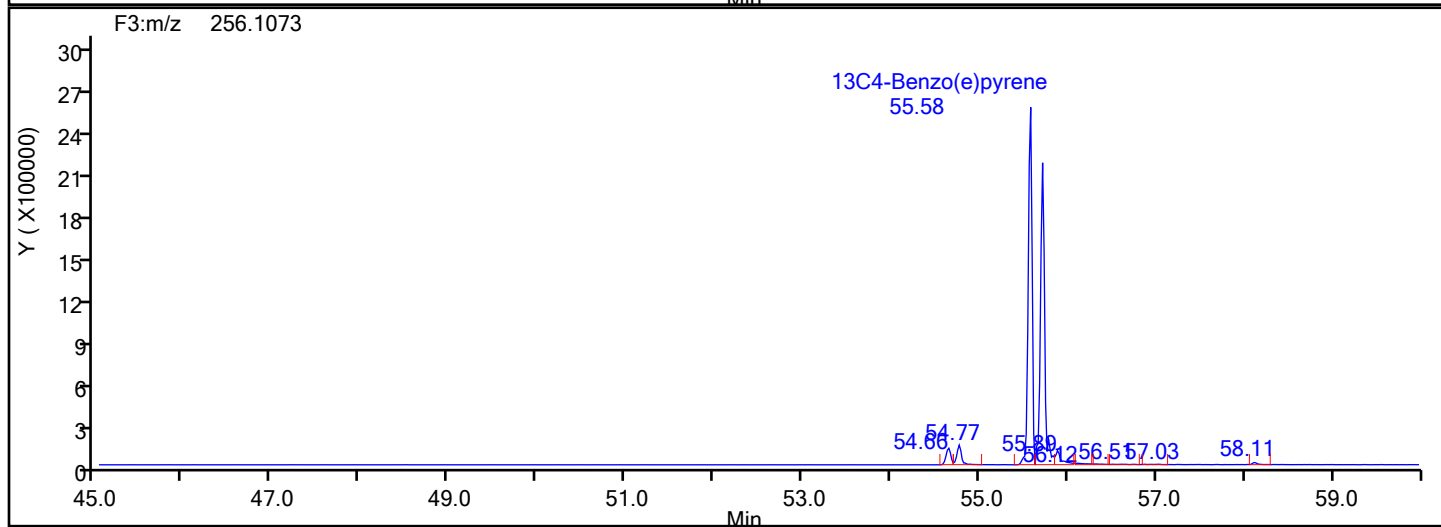
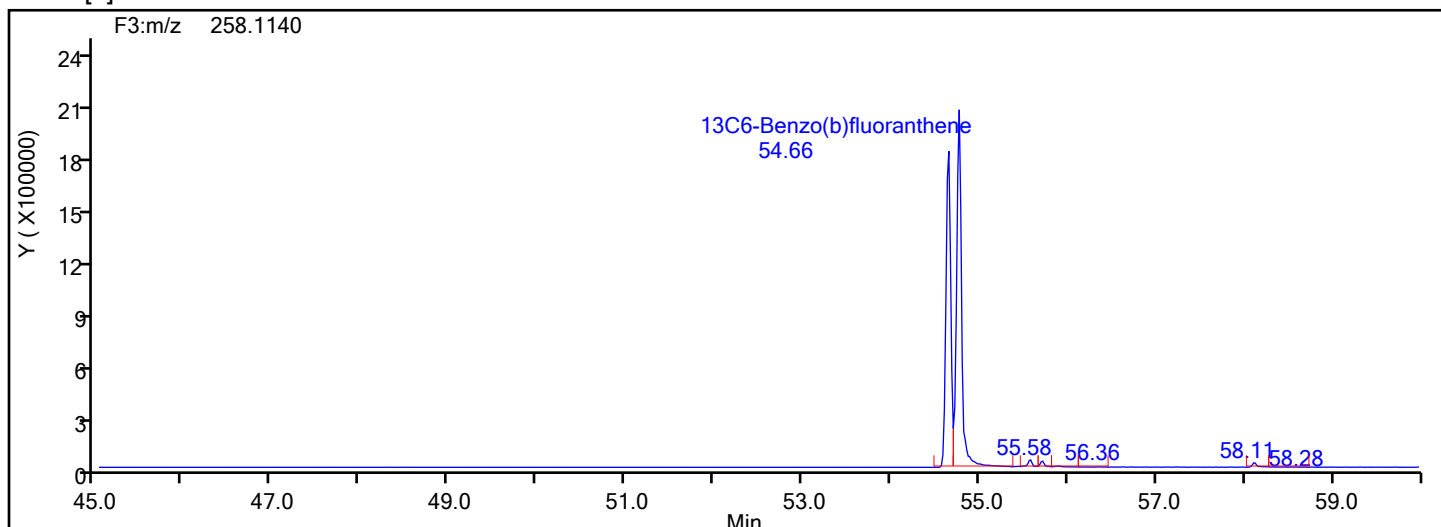
Eurofins Knoxville

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Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
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Worklist#:	87843	Sample Line#:	3
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm

Benzo[b]fluoranthene



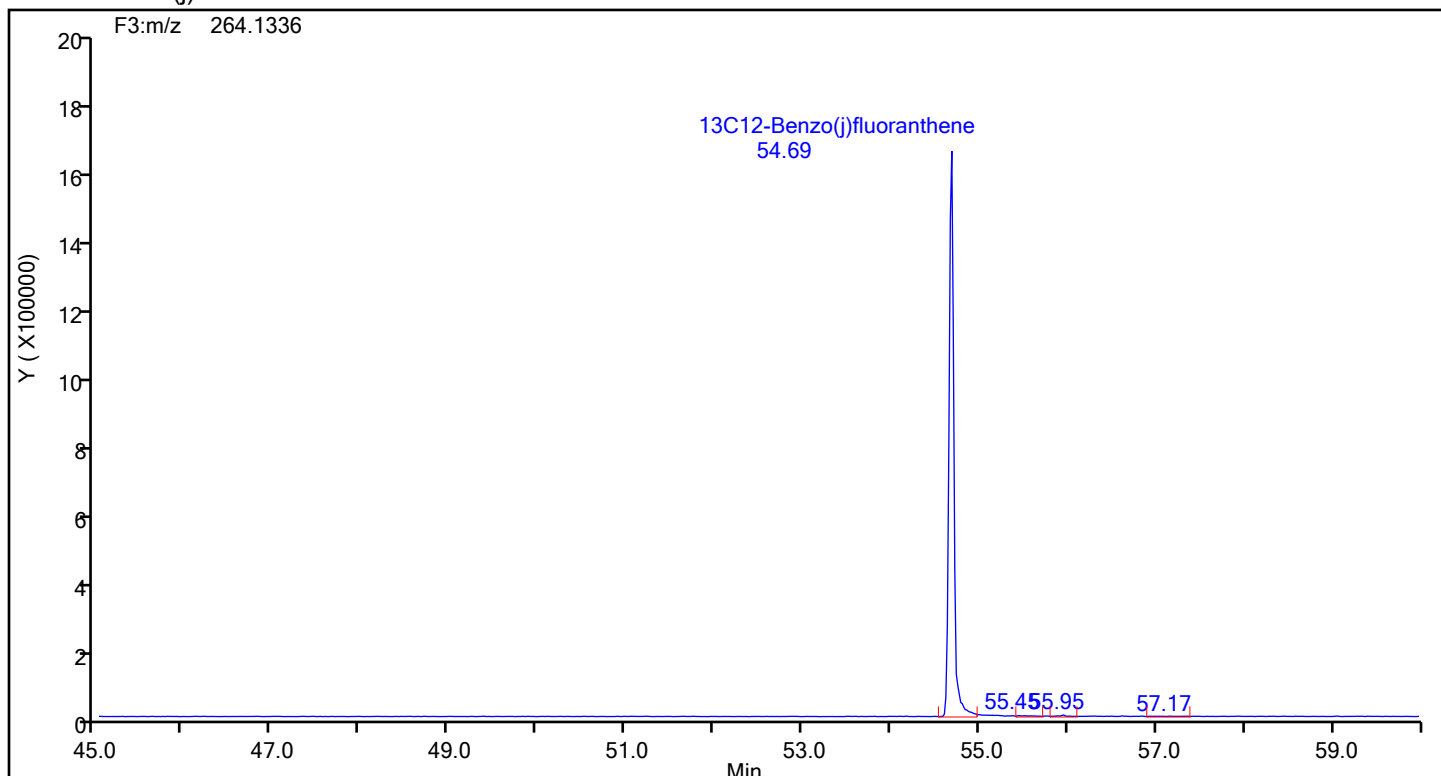
### Benzo[b]fluoranthene Standards



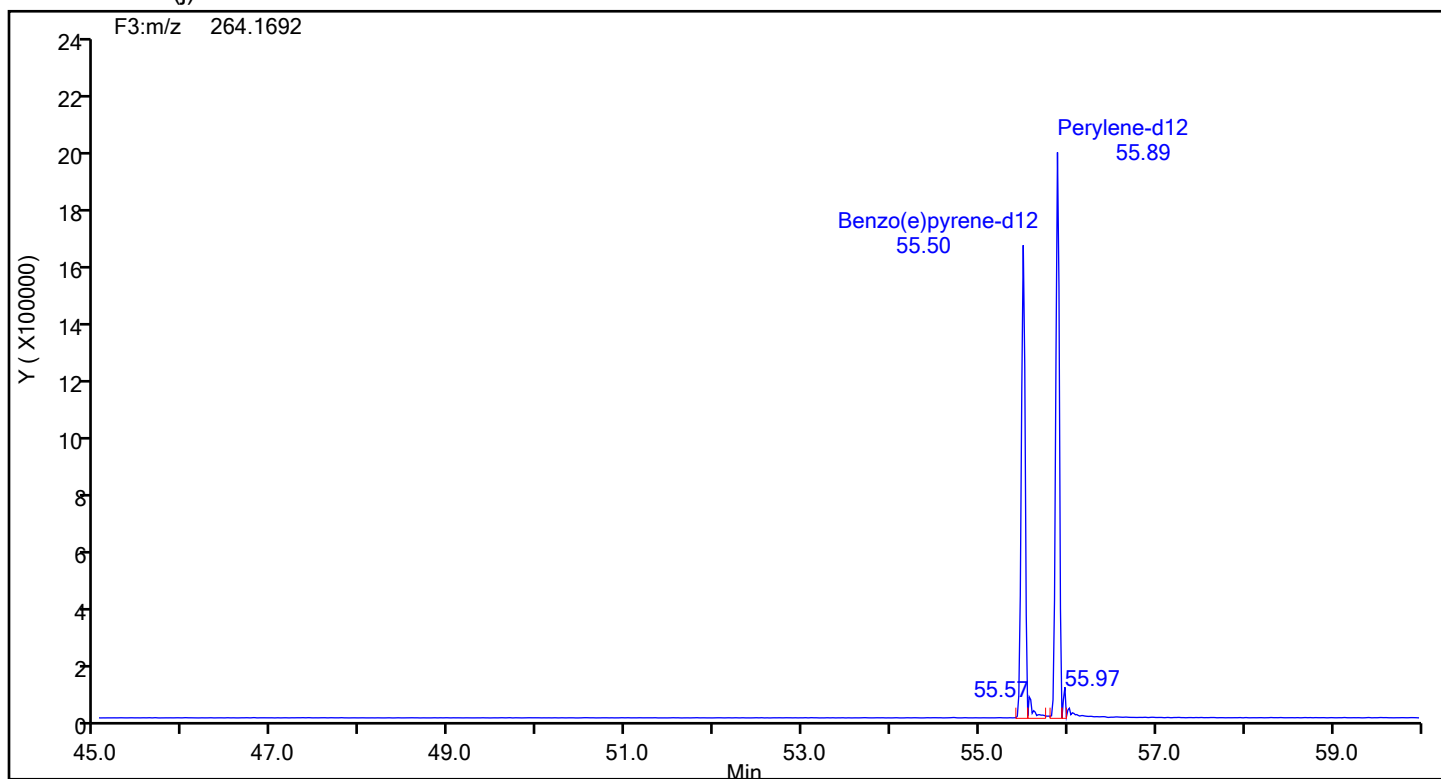
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



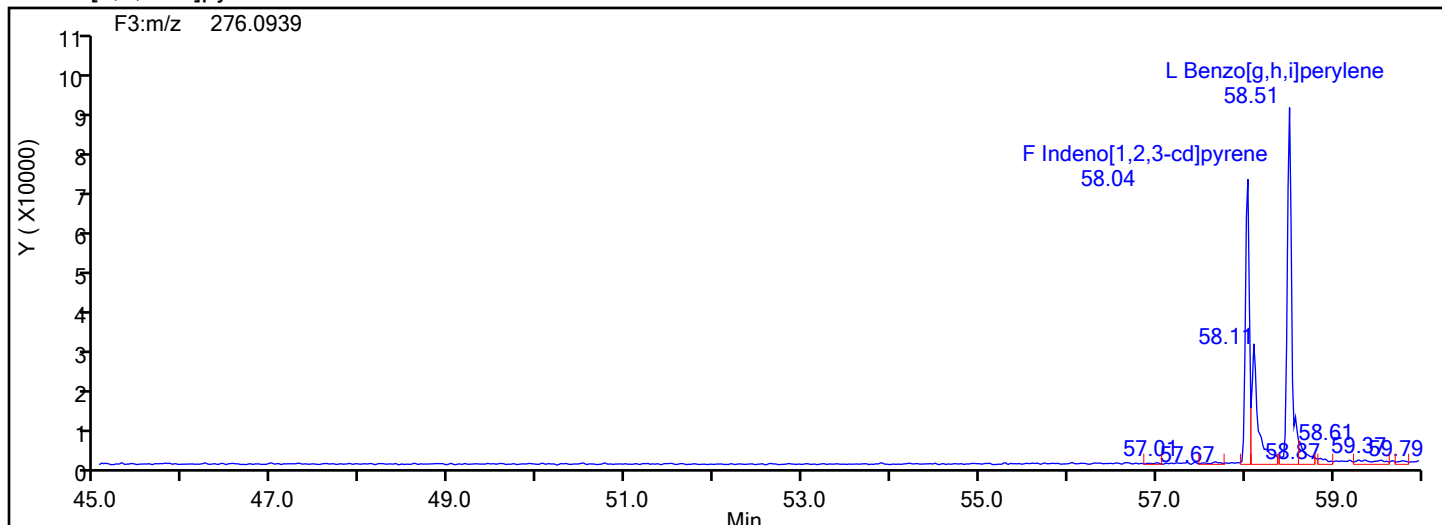
## 13C12-Benzo(j)fluoranthene Standards



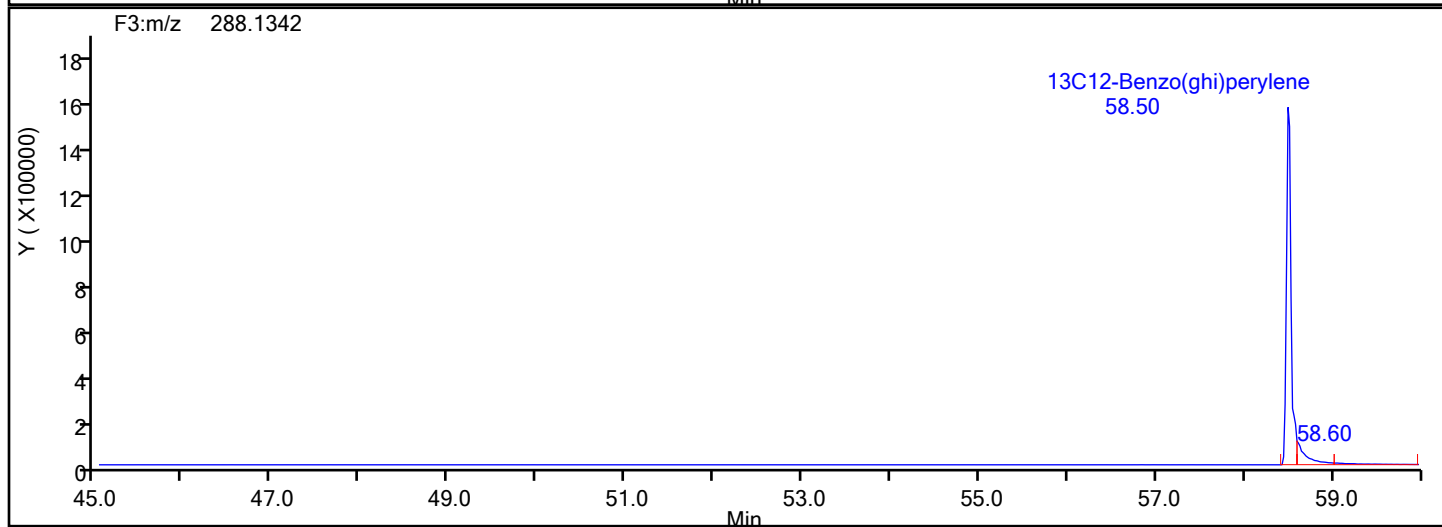
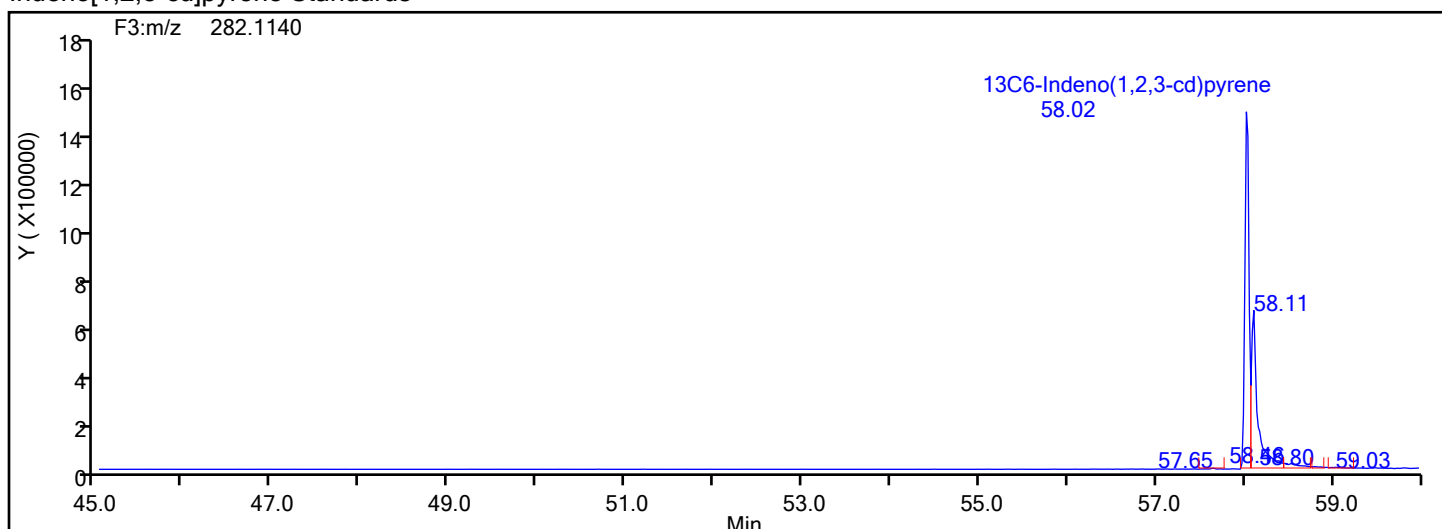
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

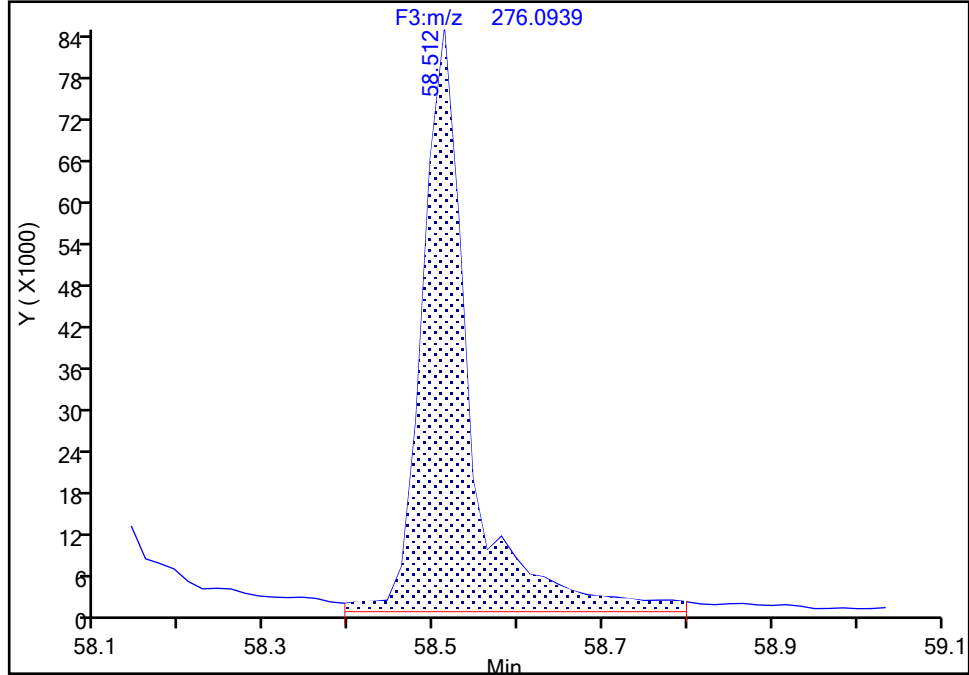
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Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
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Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

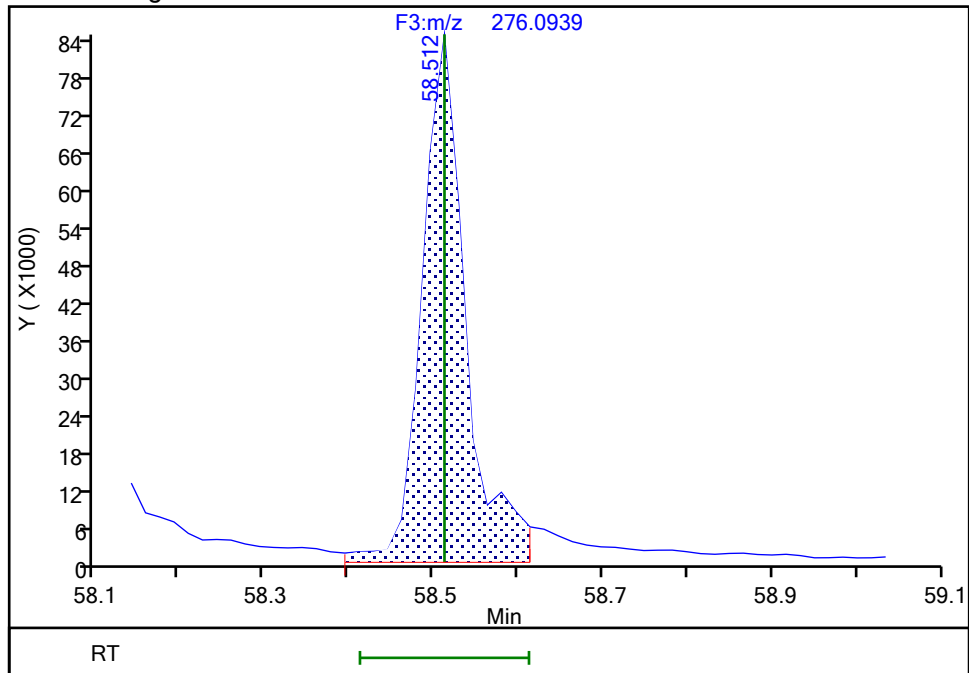
RT: 58.51  
Area: 328057  
Amount: 4.272168  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.51  
Area: 301308  
Amount: 4.025216  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:12 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

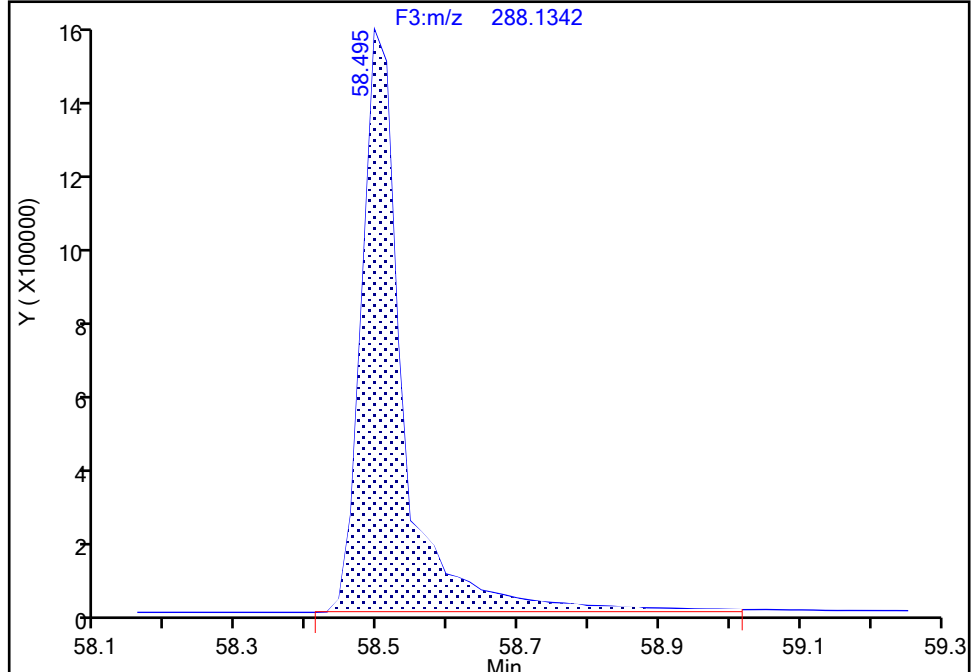
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d  
Injection Date: 19-Jun-2024 18:42:00 Instrument ID: D3PAH  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C12-Benzo(ghi)perylene, CAS: 350820-11-0**

Signal: 1

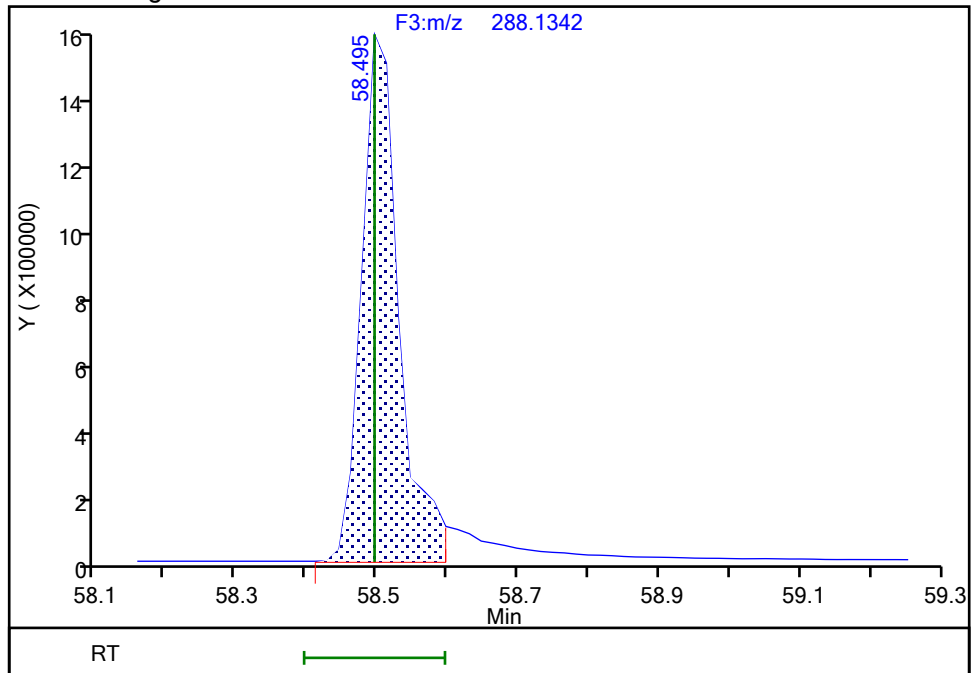
RT: 58.50  
Area: 6519750  
Amount: 97.969907  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.50  
Area: 5830946  
Amount: 92.825945  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:05 -04:00:00 (UTC)

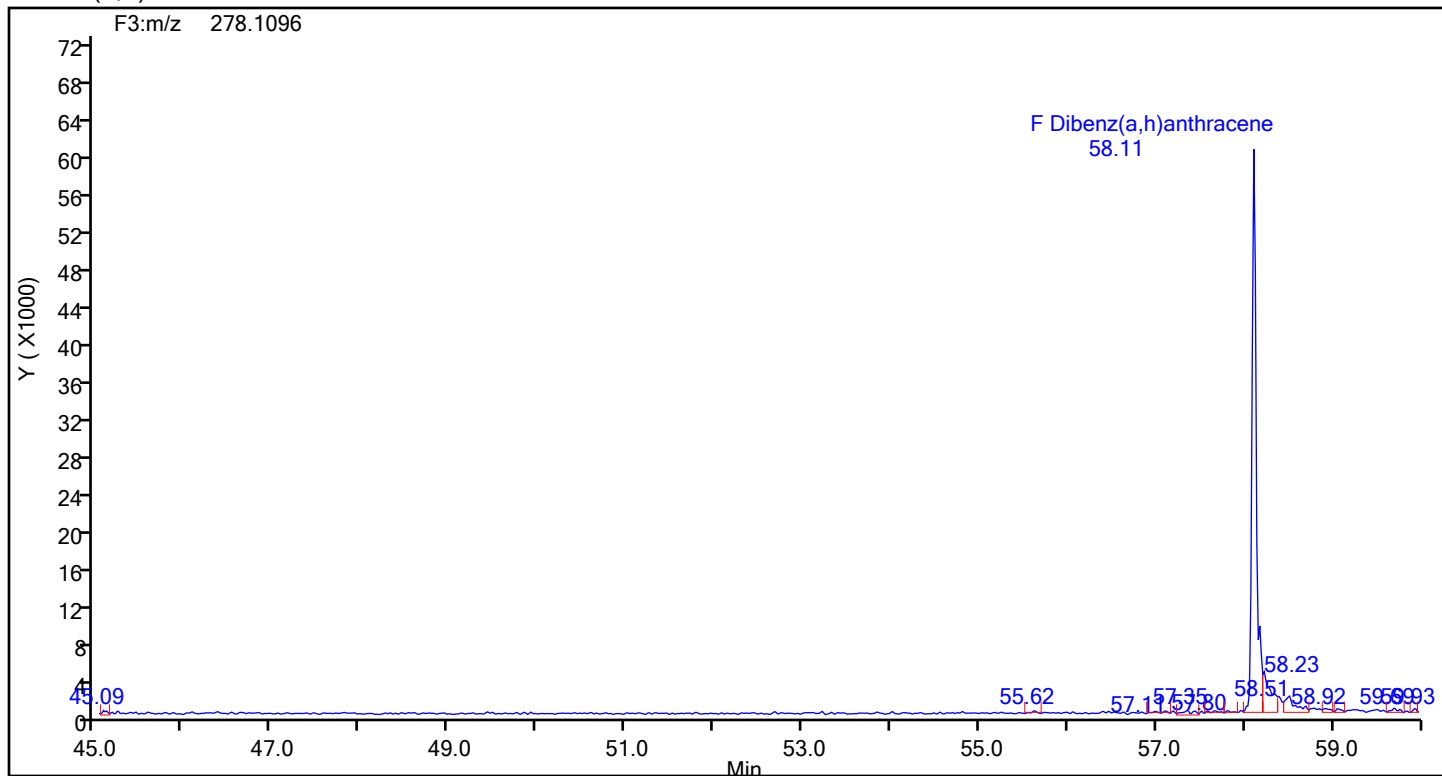
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

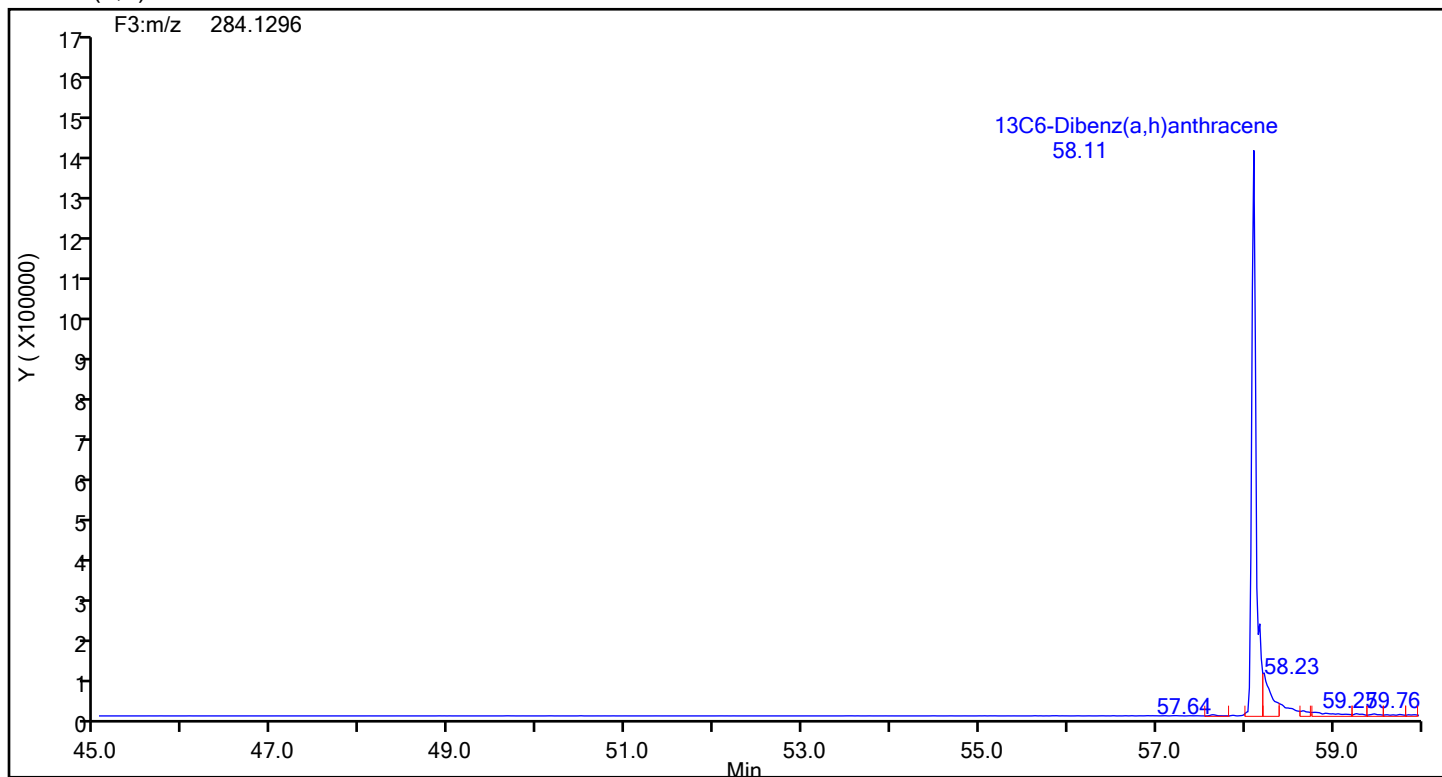
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d  
Injection Date: 19-Jun-2024 18:42:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

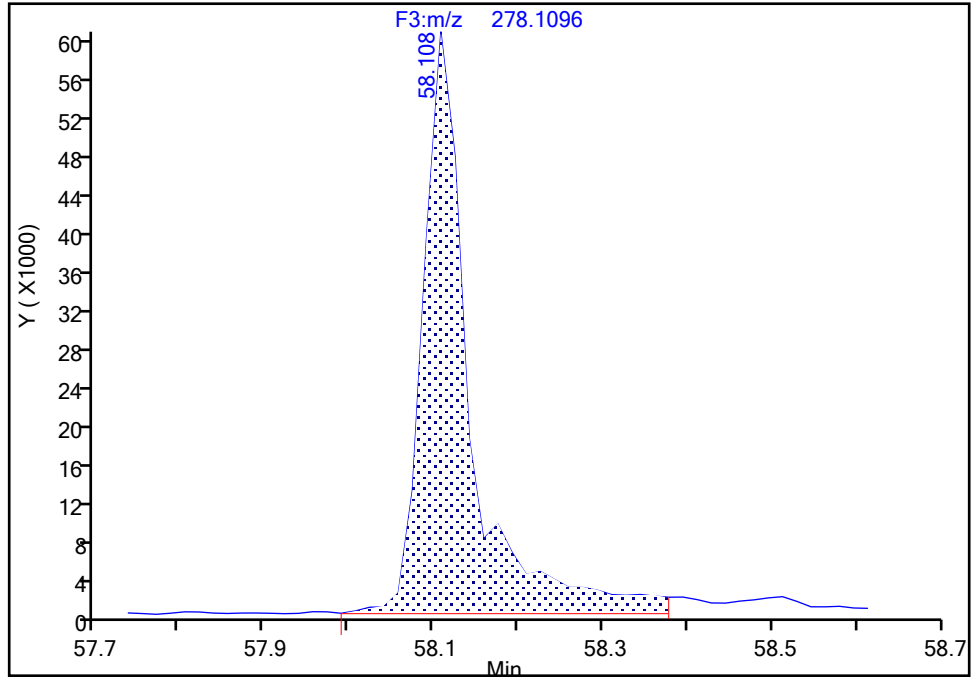
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic3.d  
Injection Date: 19-Jun-2024 18:42:00 Instrument ID: D3PAH  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**Dibenz(a,h)anthracene, CAS: 53-70-3**

Signal: 1

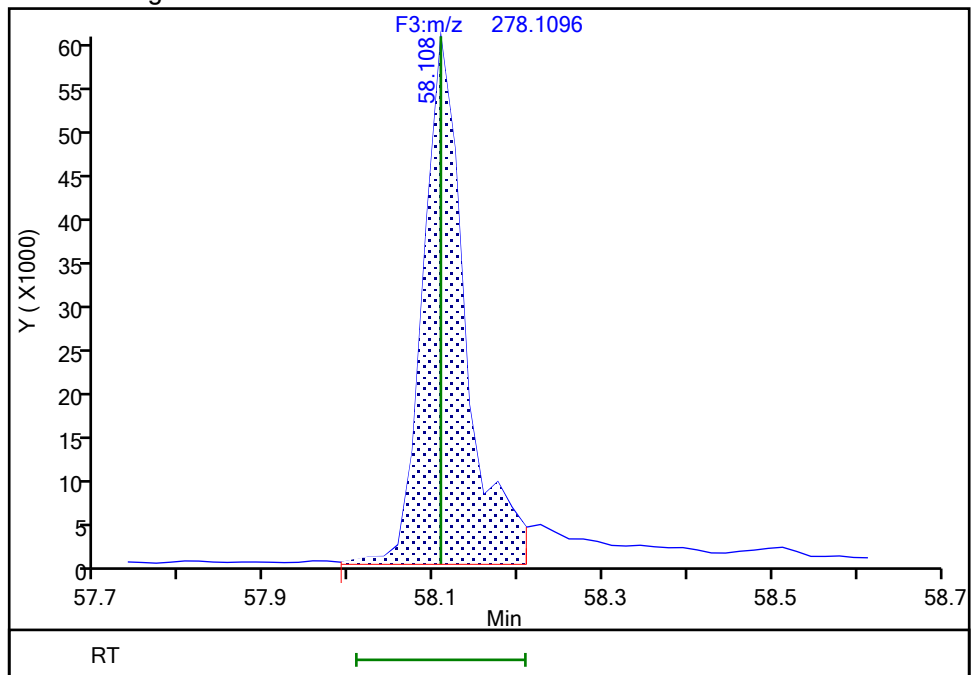
RT: 58.11  
Area: 235967  
Amount: 4.385611  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.11  
Area: 210948  
Amount: 3.903545  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:34:57 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

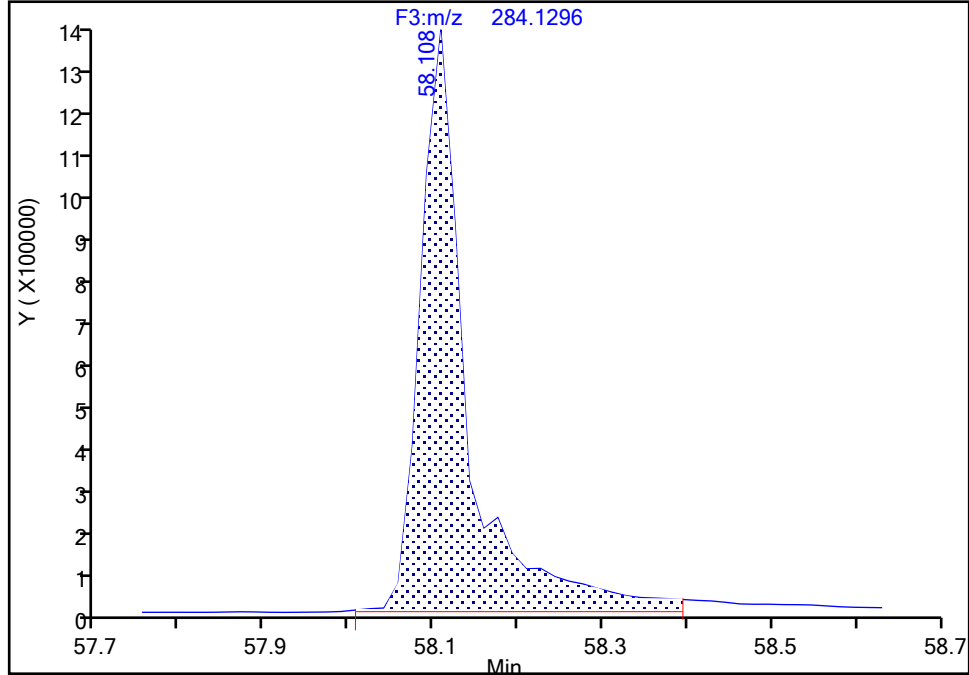
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic3.d  
Injection Date: 19-Jun-2024 18:42:00 Instrument ID: D3PAH  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Dibenz(a,h)anthracene, CAS: ST03360**

Signal: 1

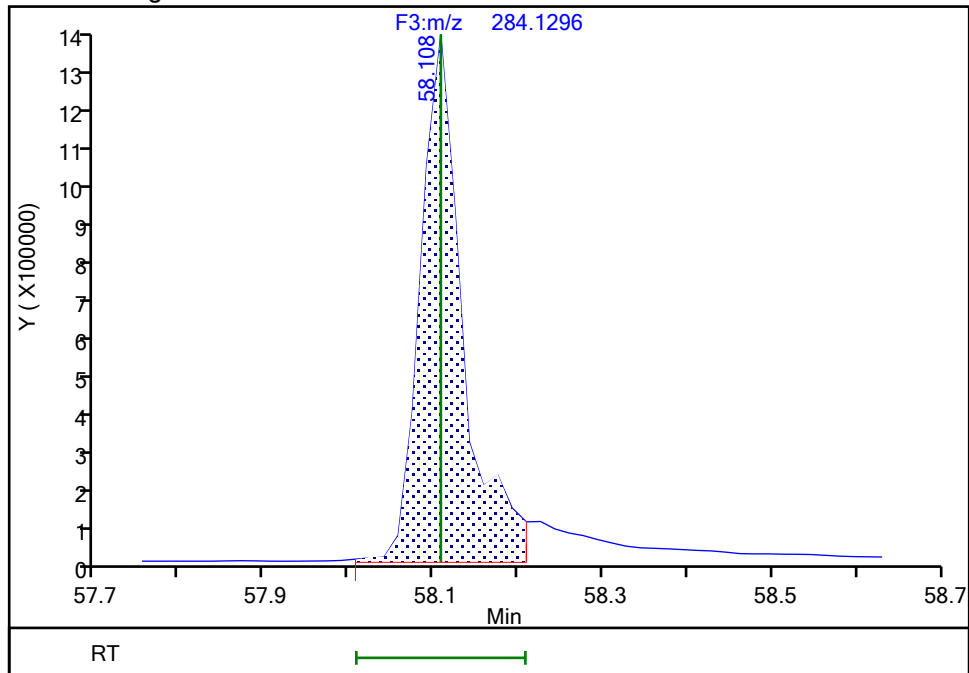
RT: 58.11  
Area: 5362382  
Amount: 91.667227  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.11  
Area: 4776504  
Amount: 91.863907  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:34:51 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Lims ID: IC L4  
Client ID:  
Sample Type: IC Calib Level: 4  
Inject. Date: 19-Jun-2024 19:47:00 ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-004  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 20-Jun-2024 09:51:43 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:08

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	11716317		3.3746	100.0	100.0	0.006040	0.006040	99.97	
Naphthalene	11:33	3903394		1.2893	25.8	25.8	0.0222	0.0222	129	
D 13C6-2-Methylnaphthalene	13:52	5490022		1.6031	98.6	98.6	0.000763	0.000763	98.61	
2-Methylnaphthalene	13:52	1847737		1.2786	26.3	26.3	0.0199	0.0199	132	
D 13C6-Acenaphthylene	16:44	5757839		1.6520	100.4	100.4	0.001086	0.001086	100	
Acenaphthylene	16:45	1541031		2.3661	19.2	19.2	0.0221	0.0221	95.79	
* Acenaphthene-d10	17:19	3473120		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3399456		0.9792	100.0	100.0	0.000999	0.000999	99.96	
Acenaphthene	17:26	939646		1.2697	21.8	21.8	0.0280	0.0280	109	
D 13C6-Fluorene	19:43	3098767		0.8898	100.3	100.3	0.000641	0.000641	100	
Fluorene	19:44	817773		1.2532	21.1	21.1	0.0292	0.0292	105	
D 13C6-Phenanthrene	25:07	4480403		0.5724	99.9	99.9	0.004188	0.004188	99.87	
Phenanthrene	25:07	1073406		1.1044	21.7	21.7	0.0394	0.0394	108	
\$ Anthracin-d10	25:20	3328133		0.4257	99.7	99.7	0.001931	0.001931	99.75	
D 13C6-Anthracene	25:27	3635963		0.4523	102.6	102.6	0.005300	0.005300	103	
Anthracene	25:27	983685		1.3586	19.9	19.9	0.0415	0.0415	99.57	
D 13C6-Fluoranthrene	33:52	9182667		1.1994	97.7	97.7	0.0211	0.0211	97.68	
Fluoranthene	33:53	2114329		1.1513	20.0	20.0	0.0150	0.0150	100	
* Pyrene-d10	35:26	7837595		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	10292274		1.3512	97.2	97.2	0.0133	0.0133	97.19	
Pyrene	35:34	2200520		1.0652	20.1	20.1	0.0153	0.0153	100	
\$ 13C6-Benzo(c)fluorene	39:17	3555493		0.5136	88.3	88.3	0.003601	0.003601	88.33	
D 13C6-Benzo(a)anthracene	46:07	7704055		1.5189	101.2	101.2	0.0149	0.0149	101	
Benzo[a]anthracene	46:07	1488098		0.9739	19.8	19.8	0.0175	0.0175	99.17	
D 13C6-Chrysene	46:23	8166961		1.6287	100.1	100.1	0.0139	0.0139	100	
Chrysene	46:23	1613361		0.9815	20.1	20.1	0.0169	0.0169	101	
D 13C6-Benzo(b)fluoranthene	54:38	7226370		1.4621	98.6	98.6	0.000823	0.000823	98.63	
Benzo[b]fluoranthene	54:39	1692873		1.1249	20.8	20.8	0.009602	0.009602	104	
\$ 13C12-Benzo(j)fluoranthene	54:40	6484034		1.3558	95.4	95.4	0.0171	0.0171	95.43	
D 13C6-Benzo(k)fluoranthene	54:46	8387092		1.7507	95.6	95.6	0.000687	0.000687	95.60	
Benzo[k]fluoranthene	54:46	1885945		1.1271	20.0	20.0	0.008676	0.008676	99.75	
* Benzo(e)pyrene-d12	55:30	5011388		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	8133857		1.6368	99.2	99.2	0.0104	0.0104	99.16	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	1761621		1.0013	21.6	21.6	0.007898	0.007898	108	
Benzo[a]pyrene	55:43	1660260		1.1130	19.8	19.8	0.008299	0.008299	99.20	
D 13C4-Benzo(a)pyrene	55:43	7518310		1.5508	96.7	96.7	0.0109	0.0109	96.74	
D Perylene-d12	55:53	6075448		1.1917	101.7	101.7	0.0177	0.0177	102	
Perylene	55:57	1591843		1.4307	18.3	18.3	0.007063	0.007063	91.57	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	5157889		1.0218	100.7	100.7	0.008657	0.008657	101	M
Indeno[1,2,3-cd]pyrene	58:01	1091218		1.1249	18.8	18.8	0.008244	0.008244	94.03	
D 13C6-Dibenz(a,h)anthracene	58:06	4988169		1.0553	94.3	94.3	0.005702	0.005702	94.32	M
Dibenz(a,h)anthracene	58:06	1098846		1.1314	19.5	19.5	0.006864	0.006864	97.36	M
D 13C12-Benzo(ghi)perylene	58:29	6056294		1.2749	94.8	94.8	0.005995	0.005995	94.79	M
Benzo[g,h,i]perylene	58:30	1535539		1.2838	19.8	19.8	0.006558	0.006558	98.75	M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS4\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Lims ID: IC L4  
Client ID:  
Sample Type: IC Calib Level: 4  
Inject. Date: 19-Jun-2024 19:47:00 ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-004  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 20-Jun-2024 09:51:43 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:08

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	-1	0.667	11716317	3897082	100	250	38971		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	3903394	1298165	446	1115	2911		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	5490022	2599116	6	15	433186		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.000	1847737	852094	265	662	3215		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	5757839	1994063	9	22	221563		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	1541031	557482	237	592	2352		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3473120	1226490	4	10	306623		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	3399456	1131211	5	12	226242		
Acenaphthene											
154.0783	17:26	17:27	-1	1.000	939646	325892	161	402	2024		
13C6-Fluorene											
172.0984	19:43	19:45	-1	1.139	3098767	929479	3	7	309826		
Fluorene											
166.0783	19:44	19:45	-1	1.001	817773	239404	136	340	1760		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4480403	1051309	14	35	75094		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	1073406	263170	183	457	1438		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	3328133	764636	5	12	152927		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	3635963	811406	14	35	57958		
Anthracene											
178.0783	25:27	25:28	-1	1.000	983685	214397	183	457	1172		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	9182667	1761346	148	370	11901		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	2114329	408256	122	305	3346		
Pyrene-d10											
212.1404	35:26	35:27	-1		7837595	1459989	43	107	33953		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	10292274	1869308	105	262	17803		
Pyrene											
202.0783	35:34	35:35	-1	1.000	2200520	415144	122	305	3403		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	3555493	652637	11	27	59331		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	-1	1.301	7704055	1333038	150	375	8887		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	1488098	266418	91	227	2928		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.309	8166961	1365798	150	375	9105		
Chrysene											
228.0939	46:23	46:25	-2	1.000	1613361	277356	91	227	3048		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	7226370	1851591	8	20	231449		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	1692873	471919	80	200	5899		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	6484034	1591075	154	385	10332		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	8387092	2045378	8	20	255672		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	1885945	472393	80	200	5905		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		5011388	1661772	140	350	11870		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-2	1.001	8133857	2529058	113	282	22381		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	1761621	581240	80	200	7266		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	1660260	495412	80	200	6193		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	7518310	2165173	113	282	19161		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	6075448	1979131	140	350	14137		
Perylene											
252.0939	55:57	55:58	-1	1.001	1591843	541841	80	200	6773		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	5157889	1584980	59	147	26864		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	1091218	342666	59	147	5808		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	4988169	1377812	40	100	34445		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	1098846	313712	43	107	7296		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	6056294	1746025	51	127	34236		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	1535539	424373	59	147	7193		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS4\_00002

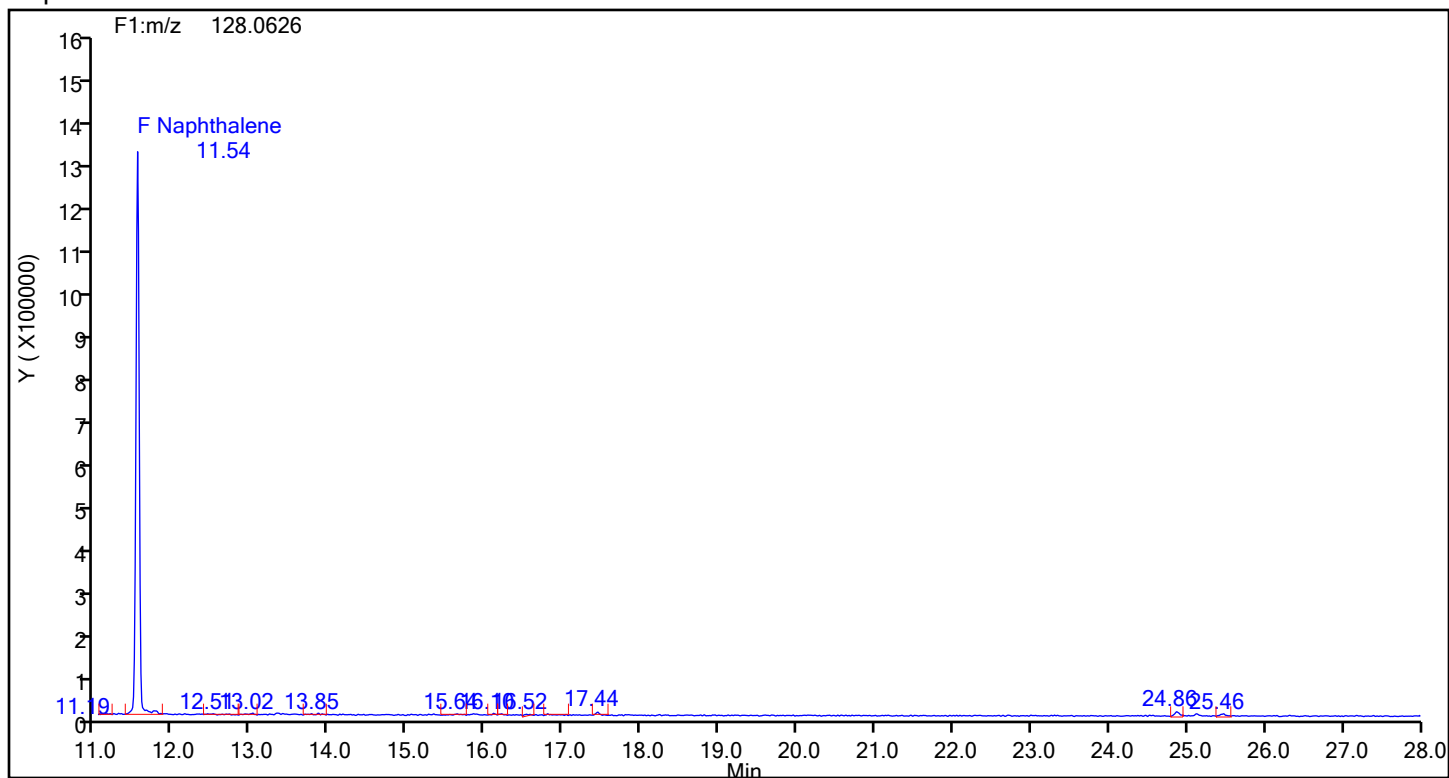
Amount Added: 20.00

Units: uL

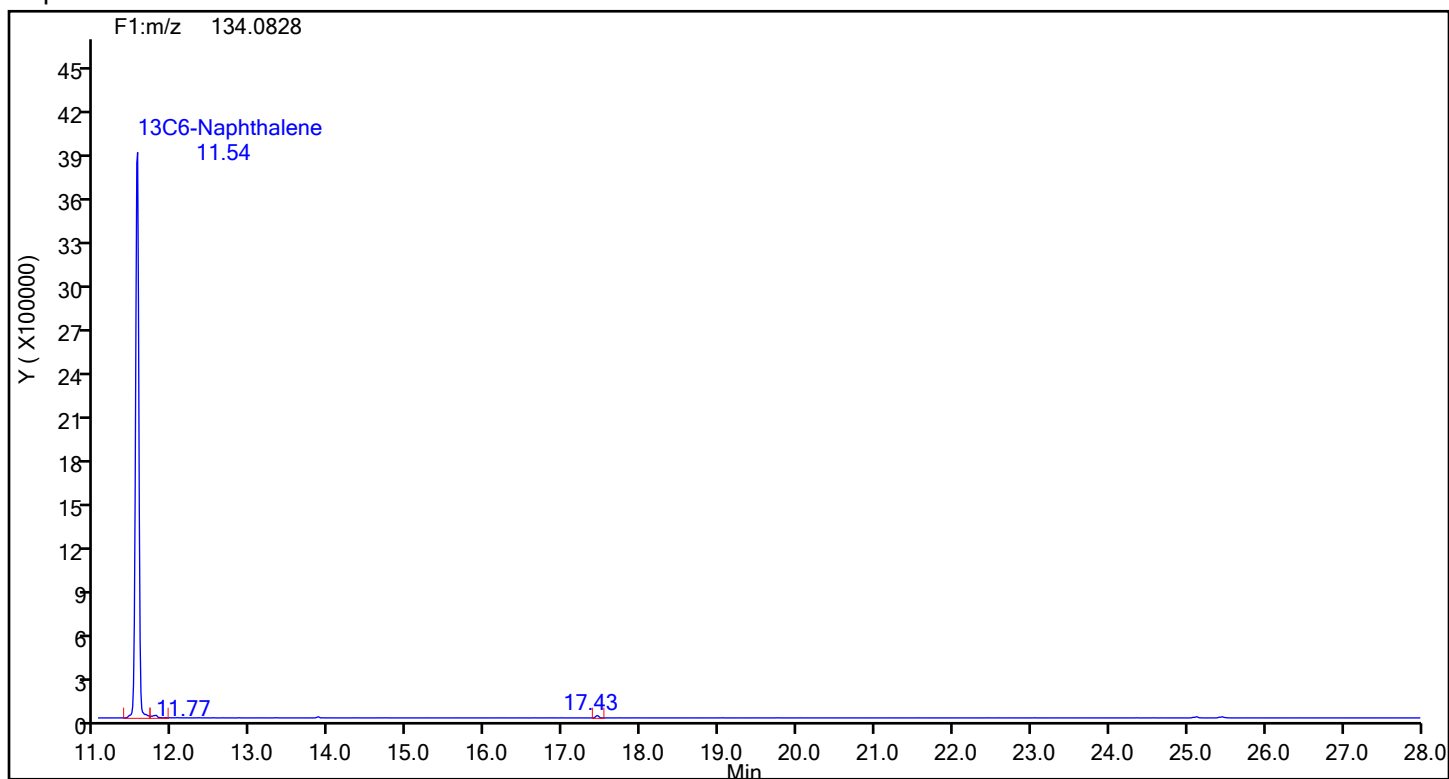
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



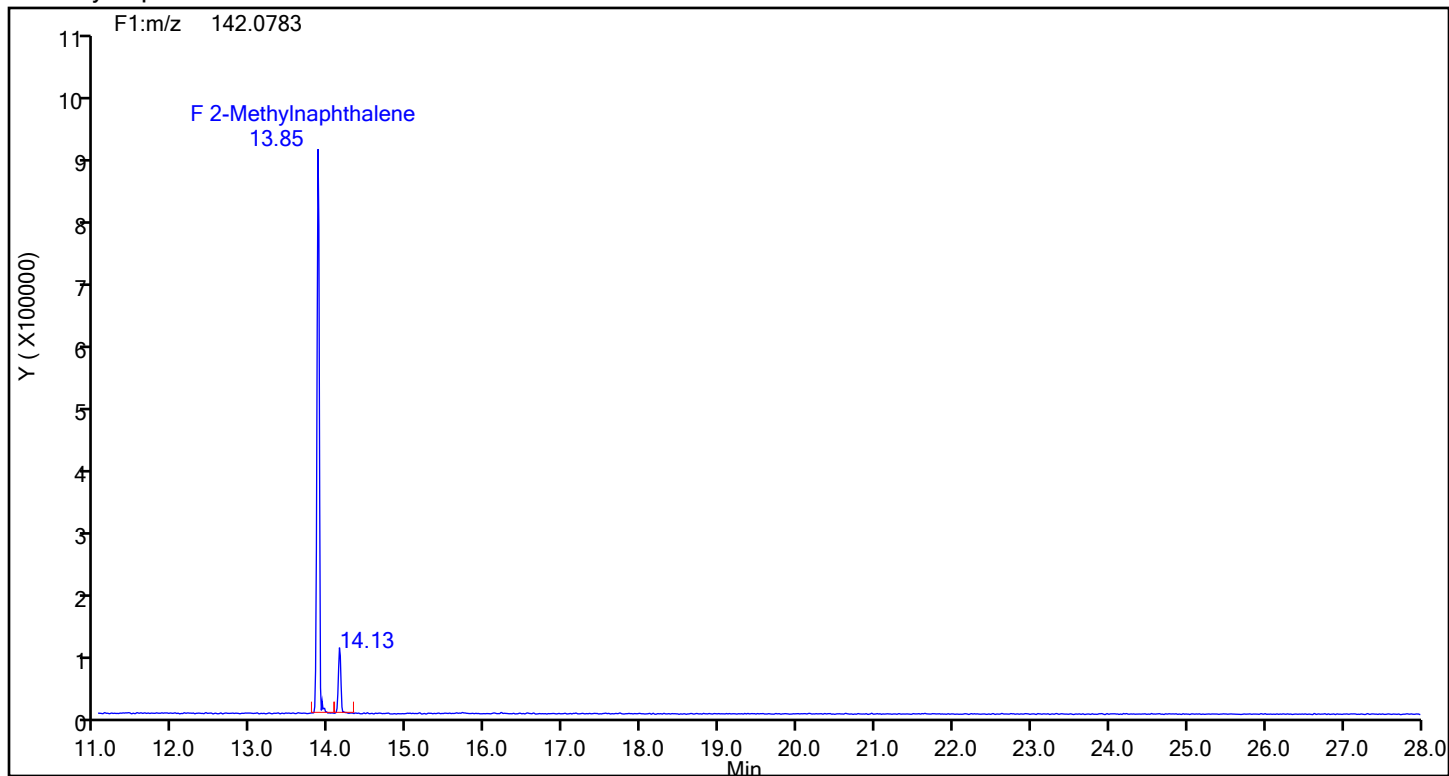
## Naphthalene Standards



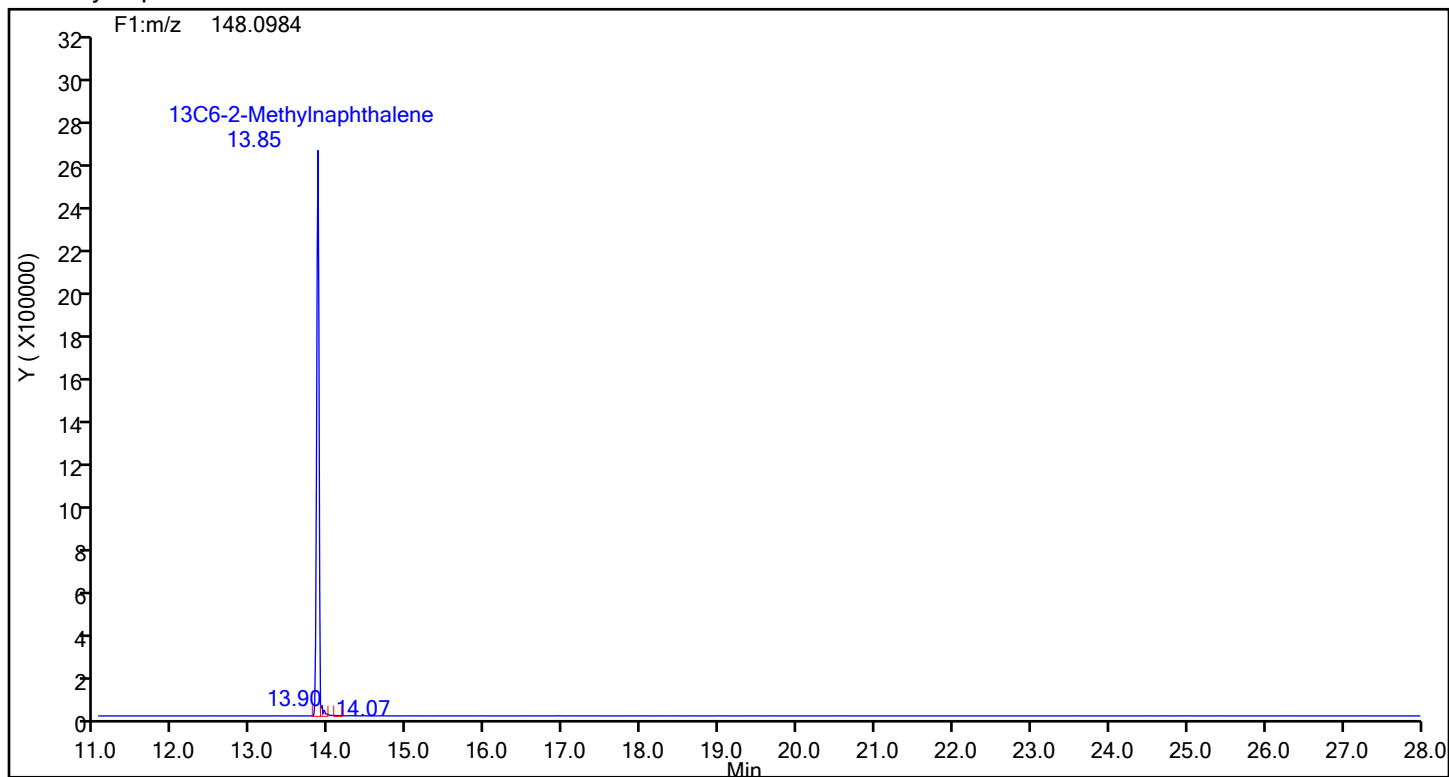
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



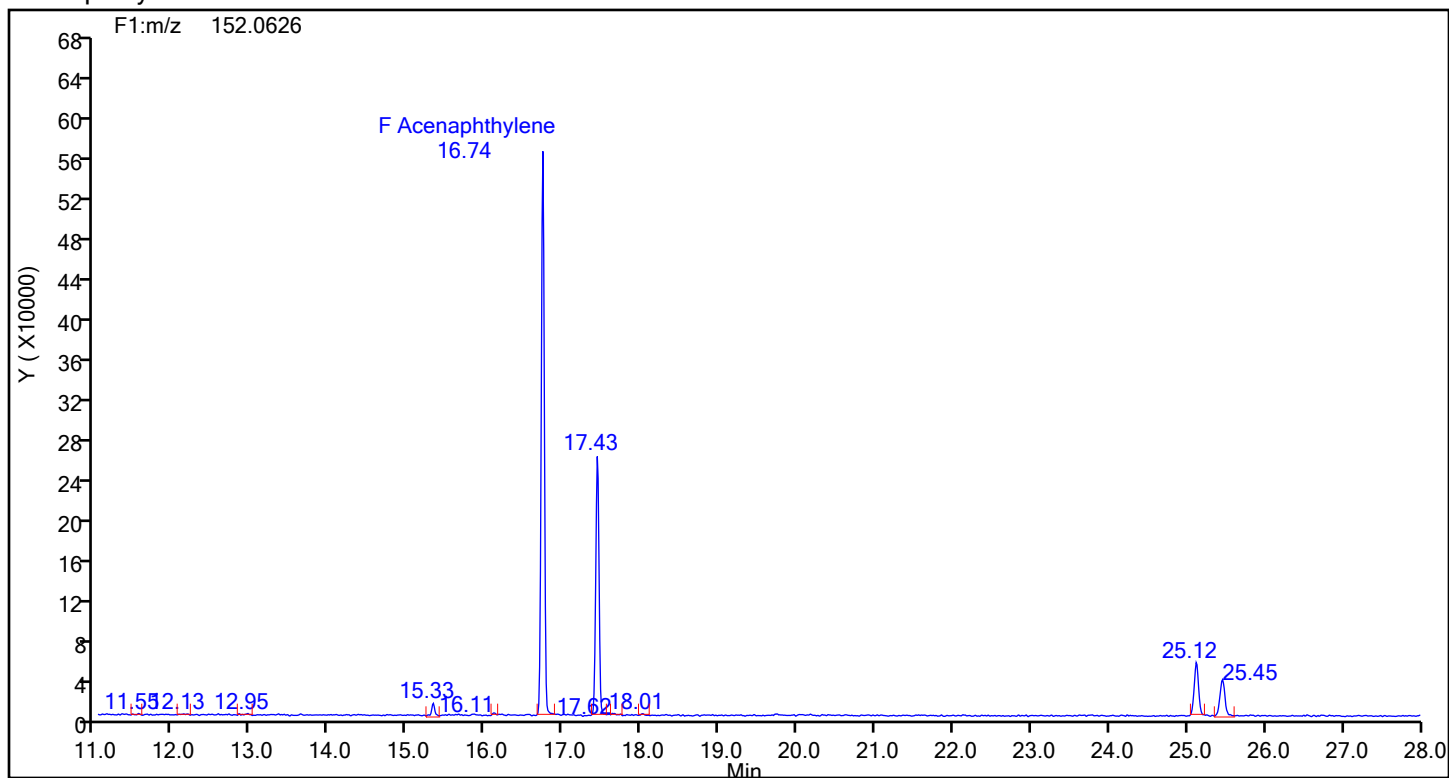
## 2-Methylnaphthalene Standards



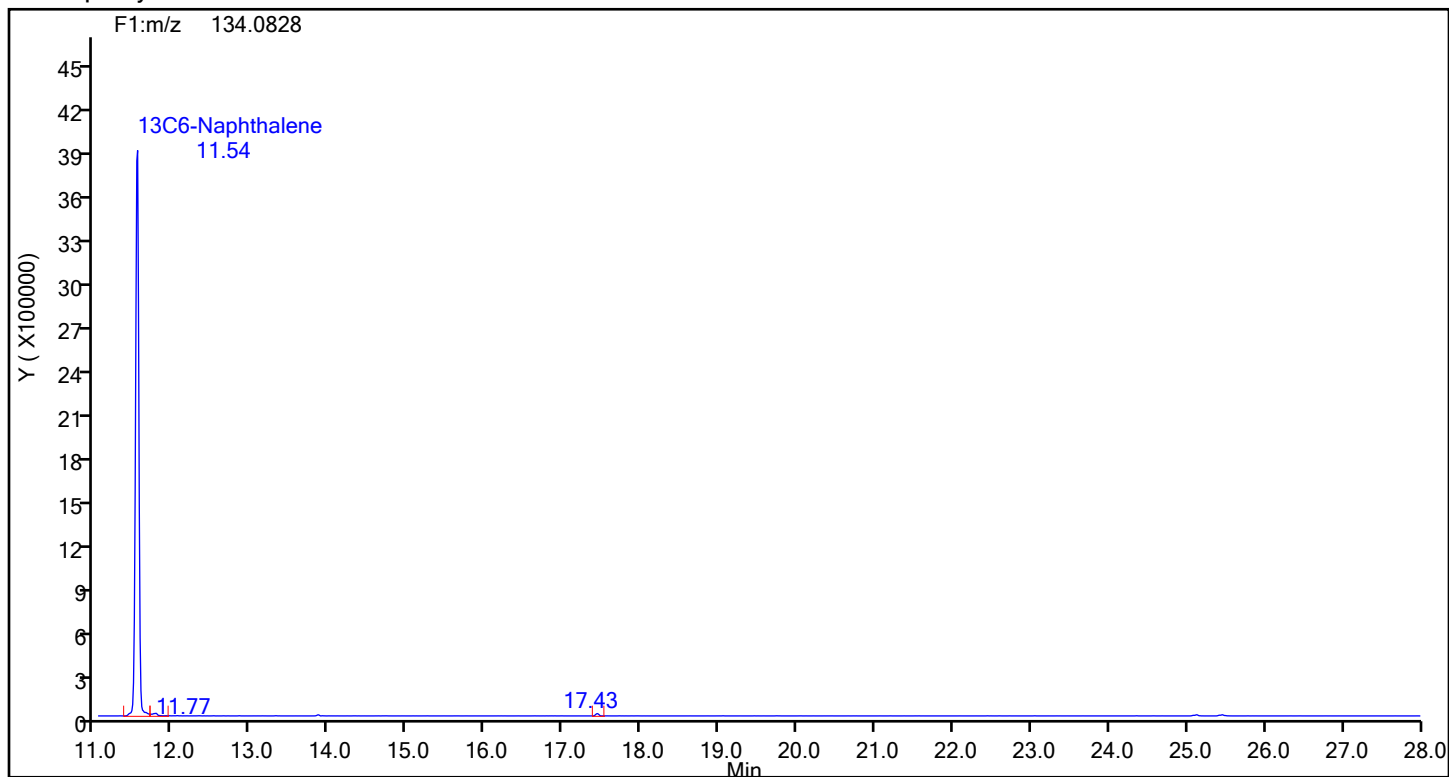
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



## Acenaphthylene Standards

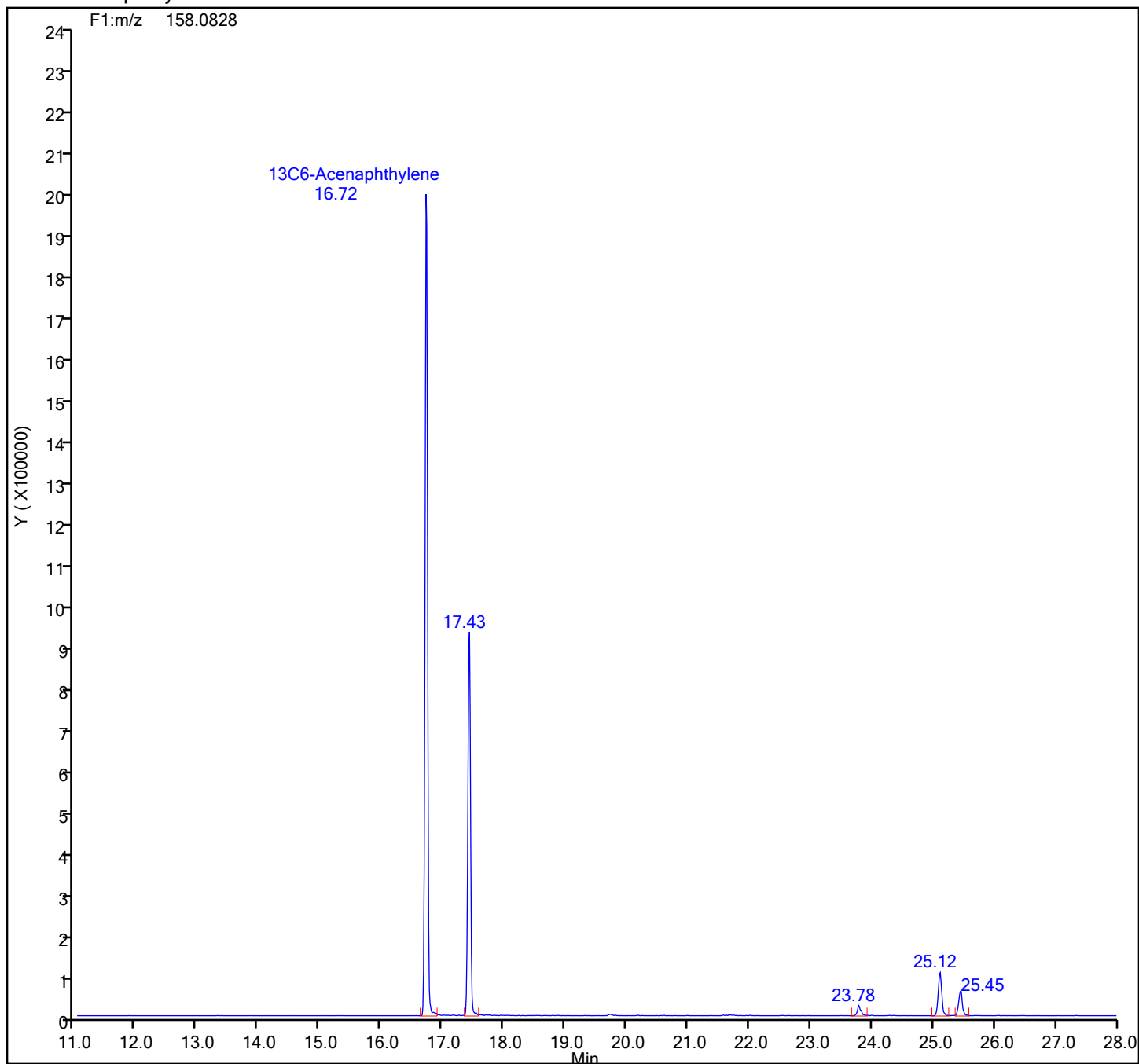




## Eurofins Knoxville

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Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

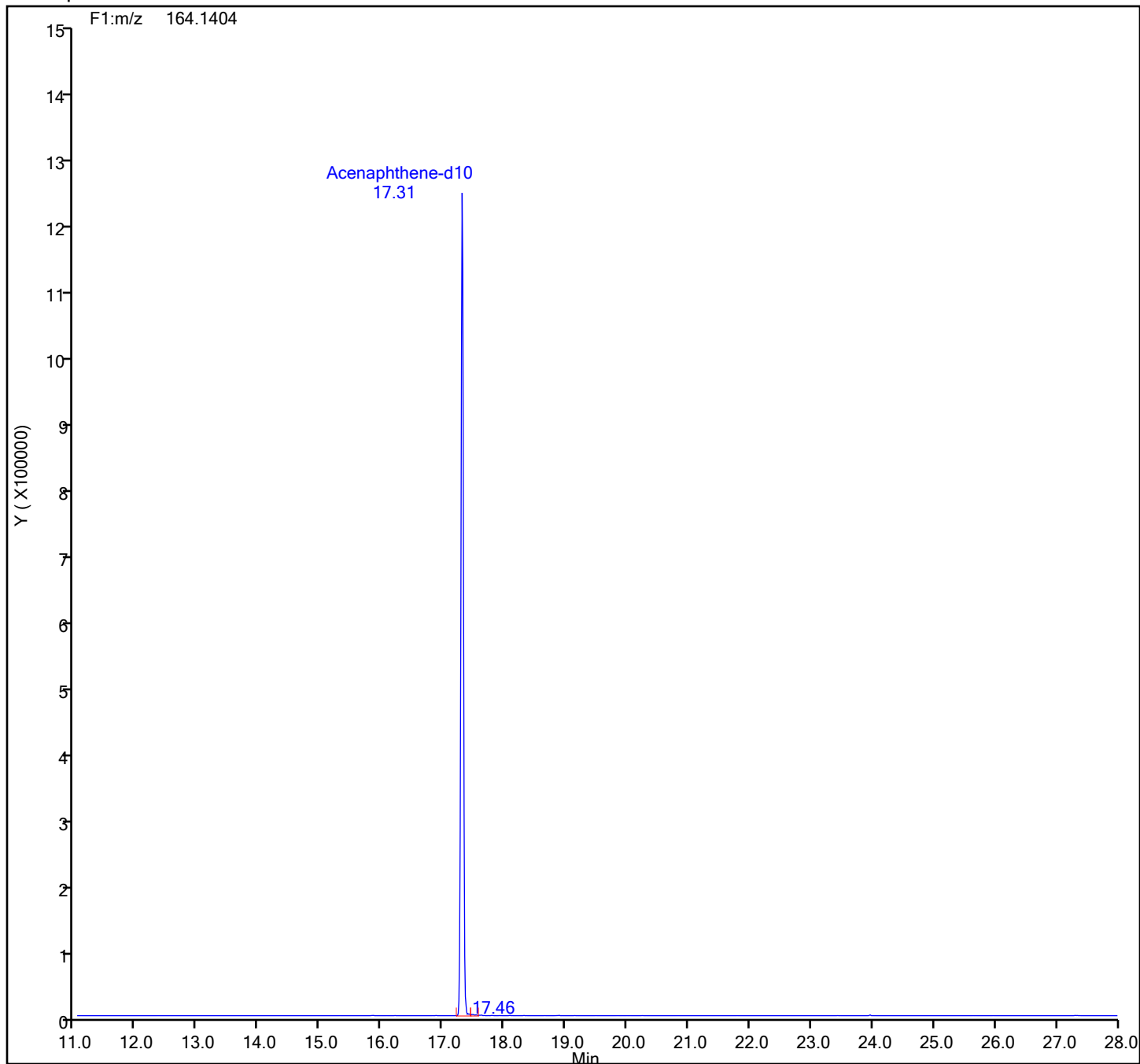
## 13C6-Acenaphthylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

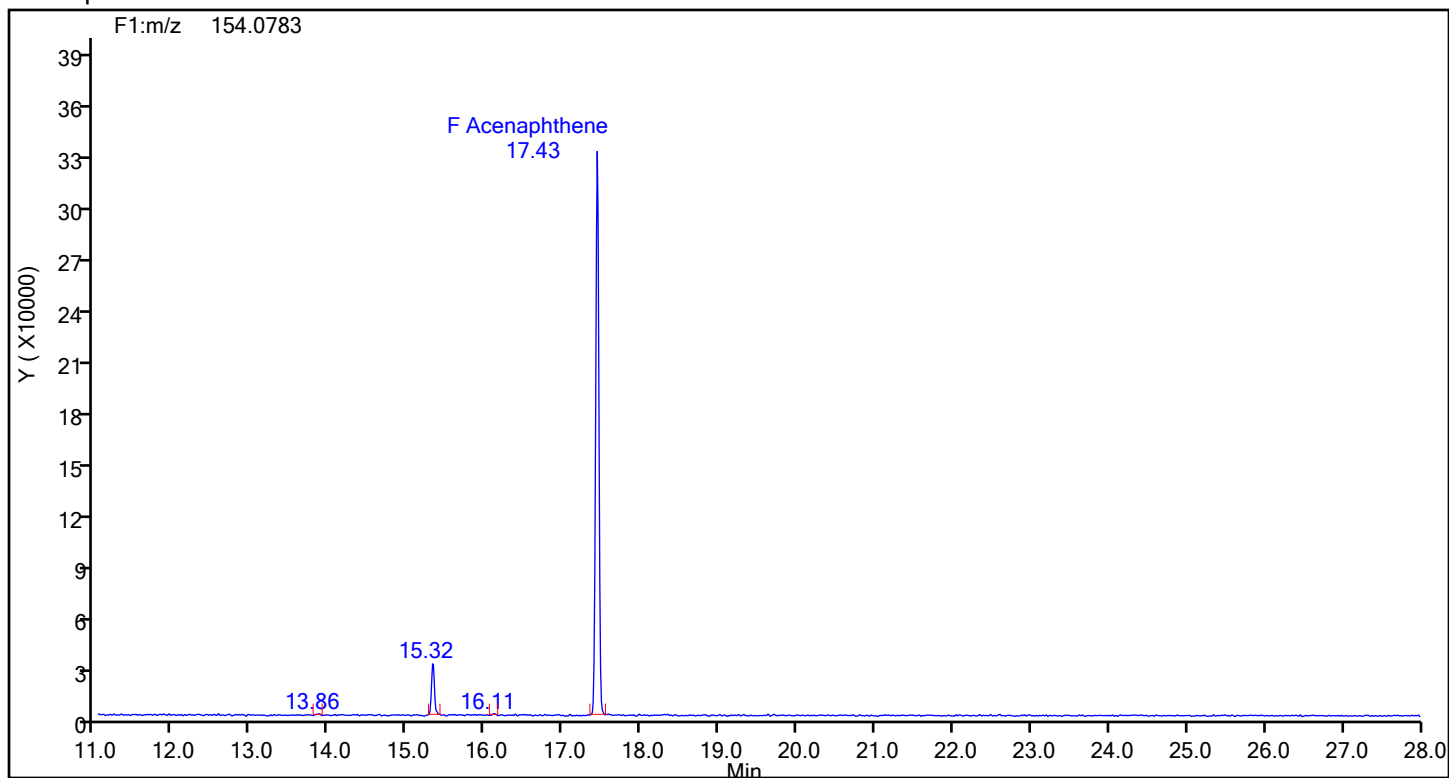
## Acenaphthene-d10 Standards



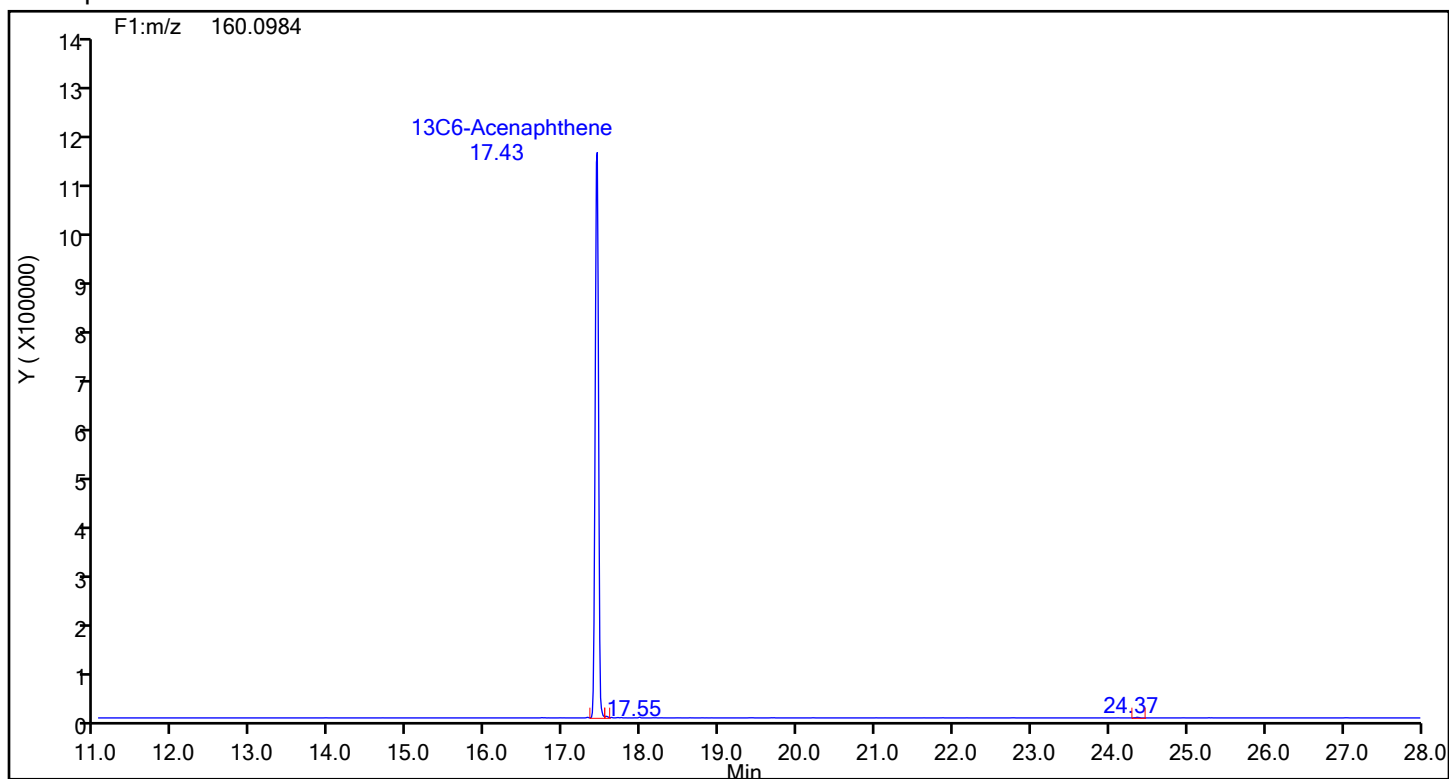
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



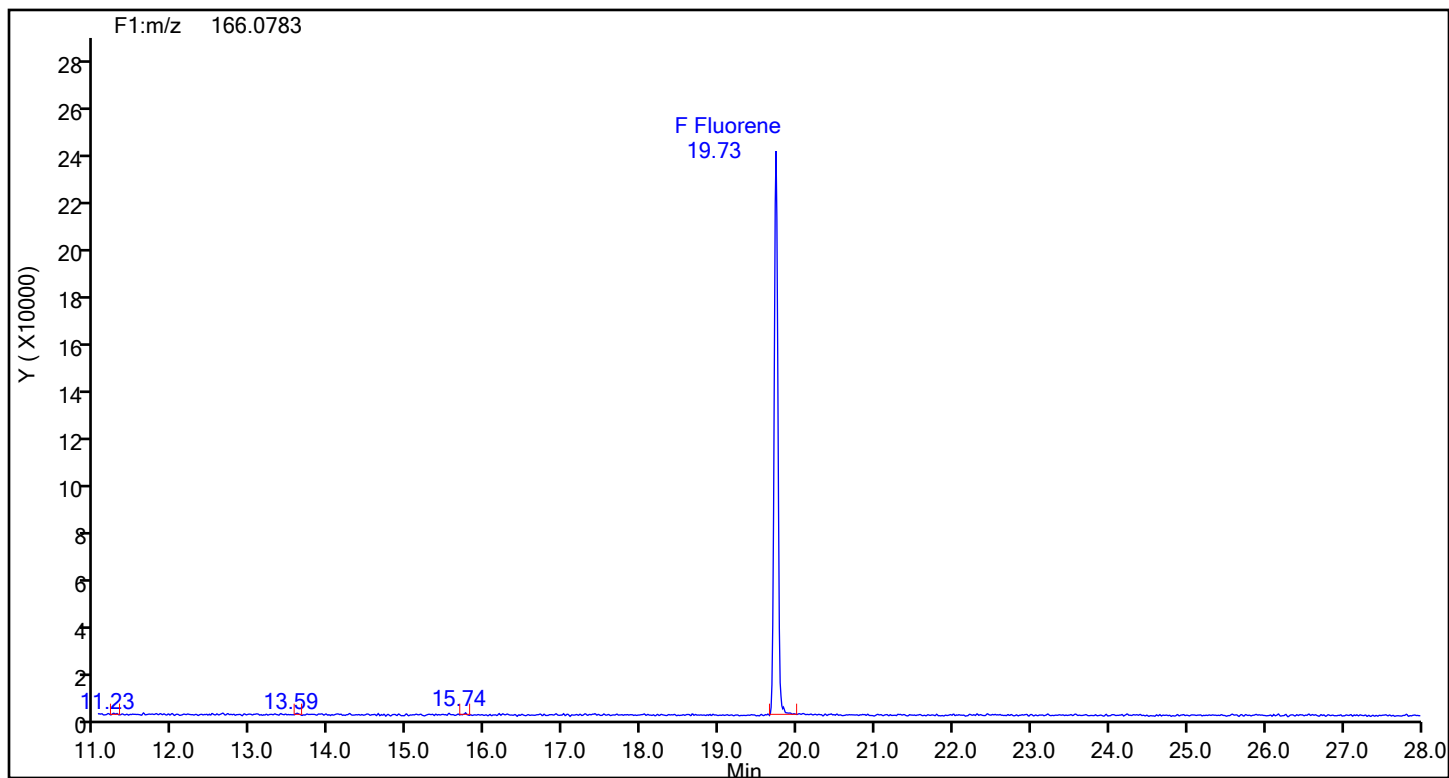
## Acenaphthene Standards



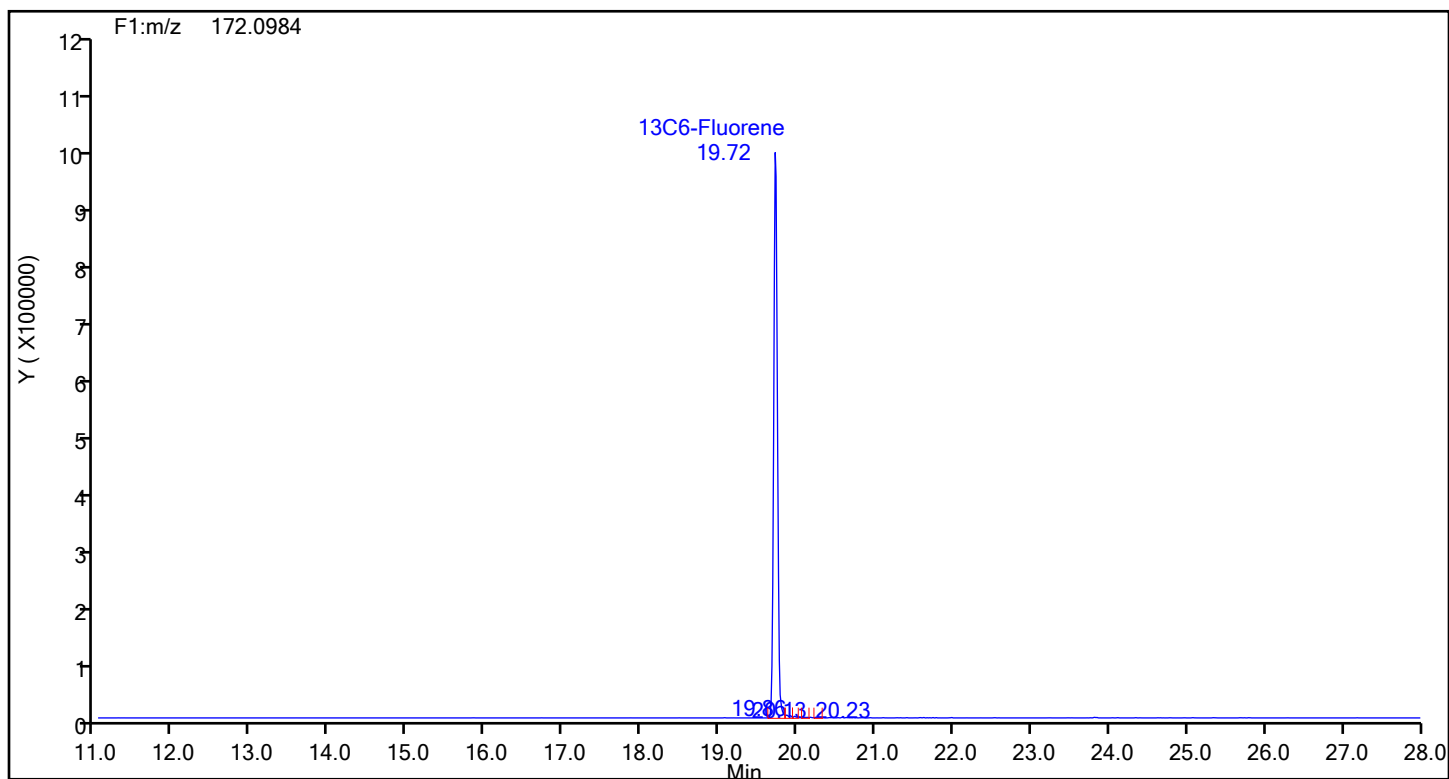
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene

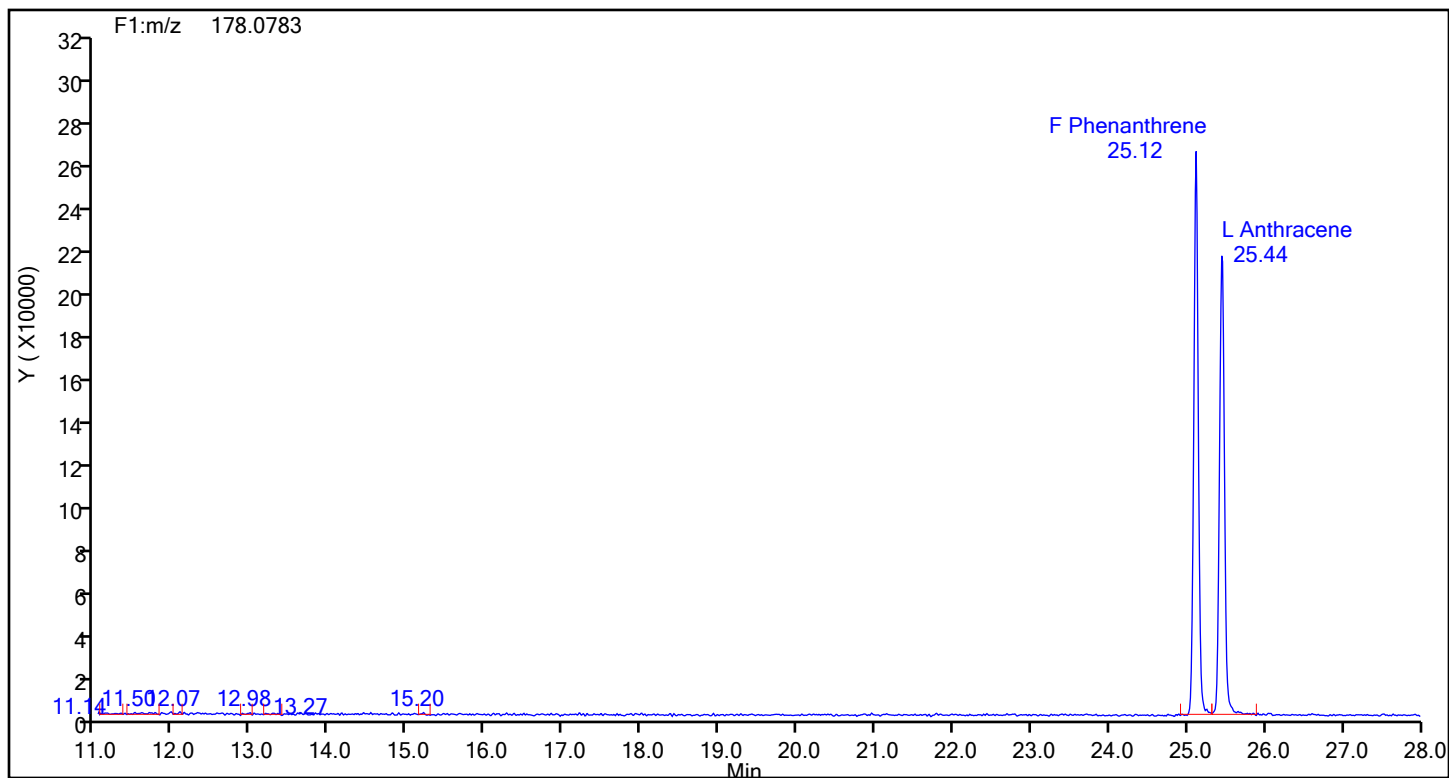


## Fluorene Standards

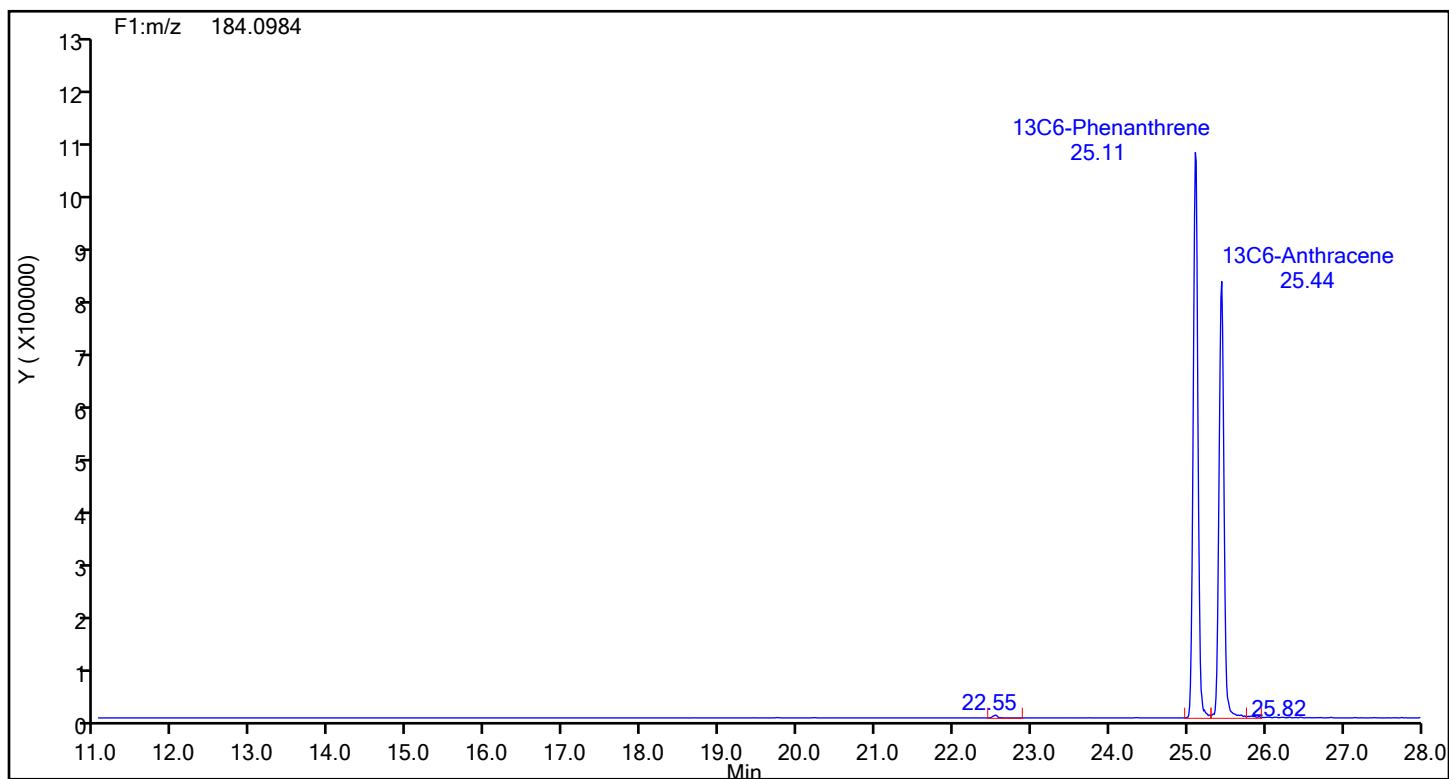


## Eurofins Knoxville

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Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene

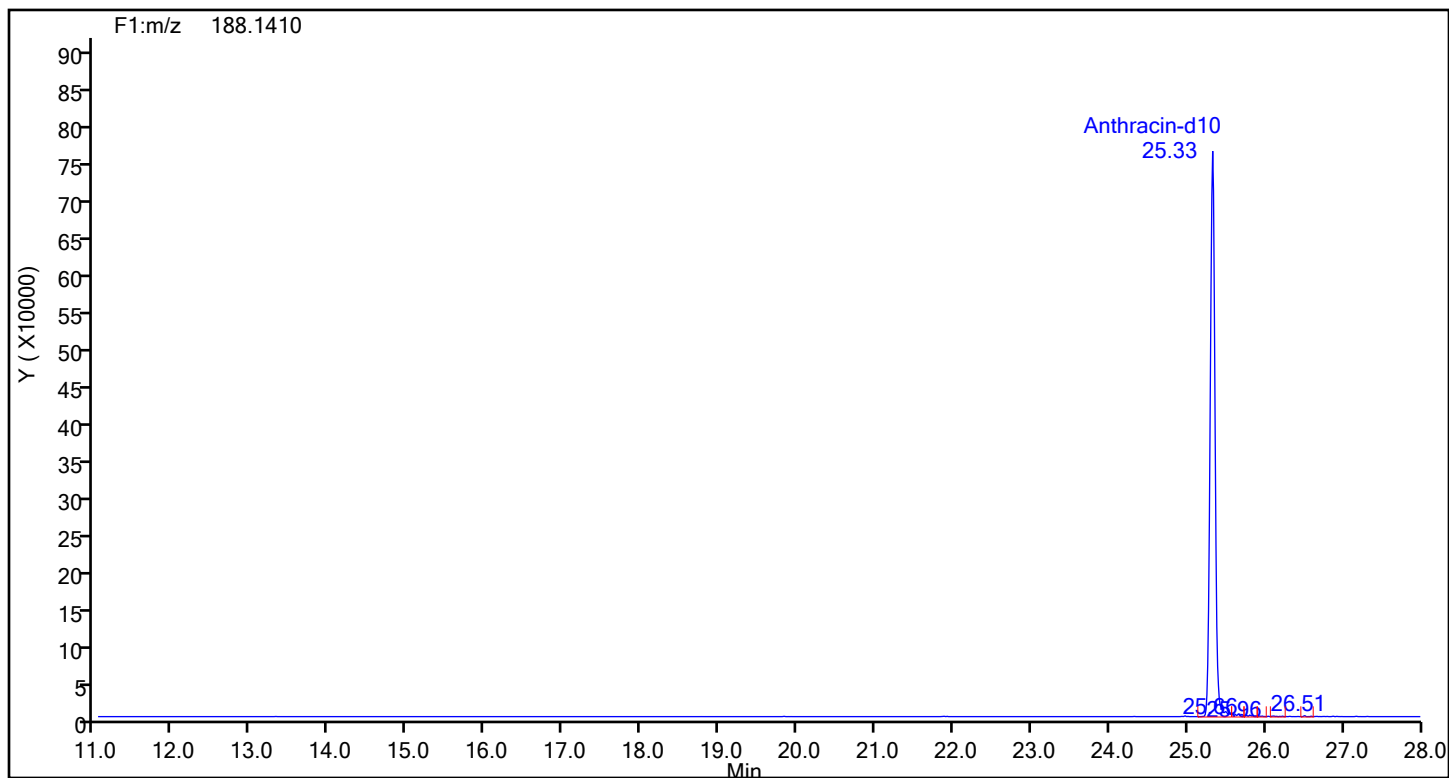


## Phenanthrene Standards

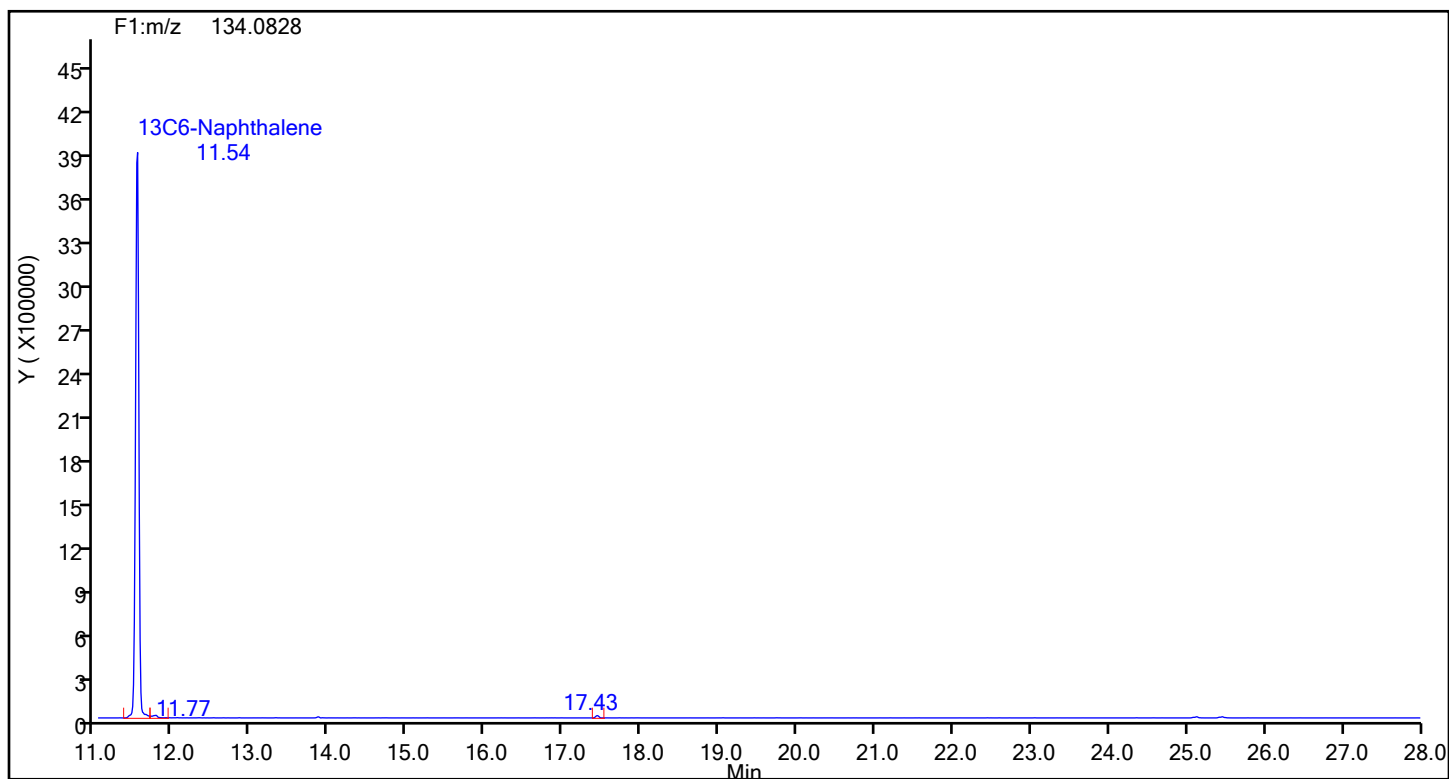


## Eurofins Knoxville

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Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

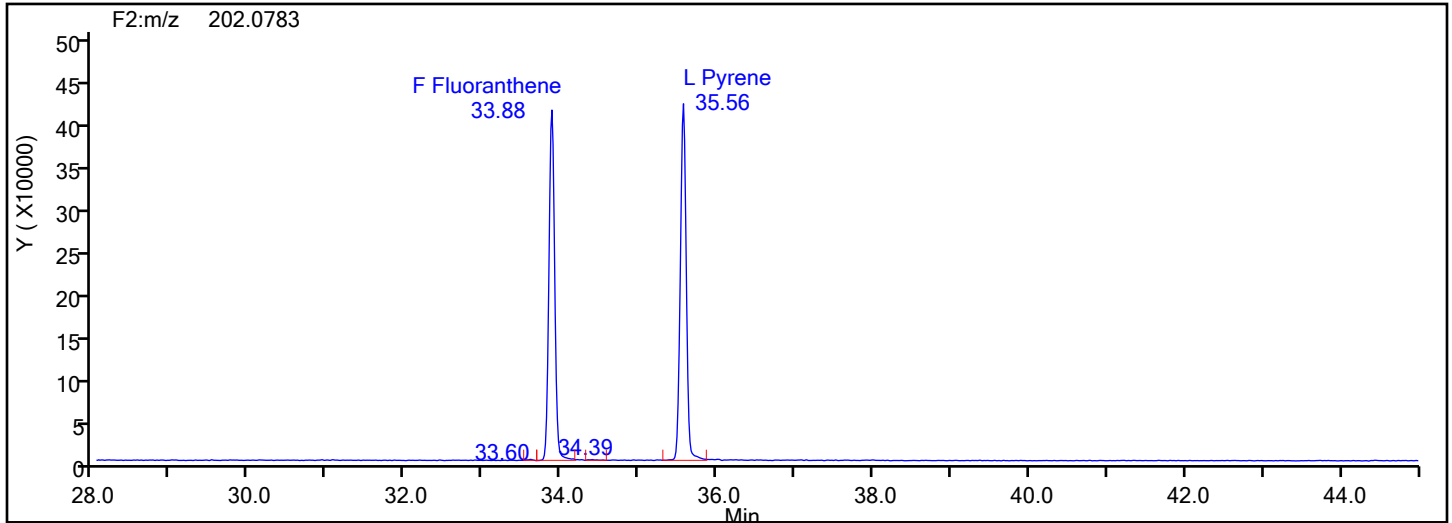


## Anthracin-d10 Standards

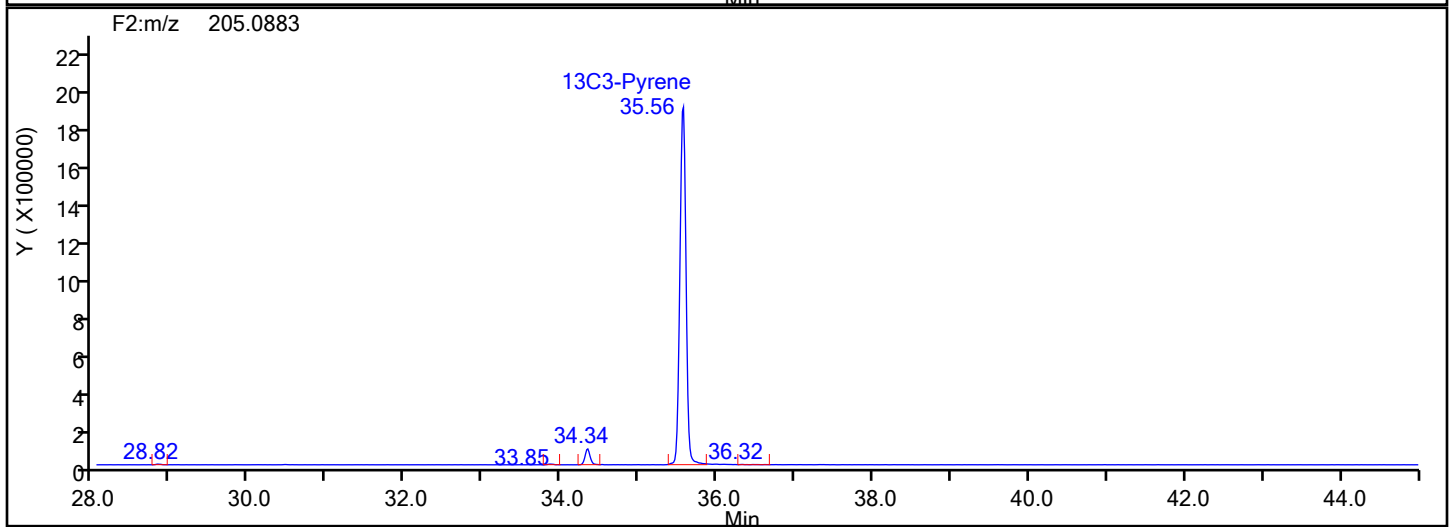
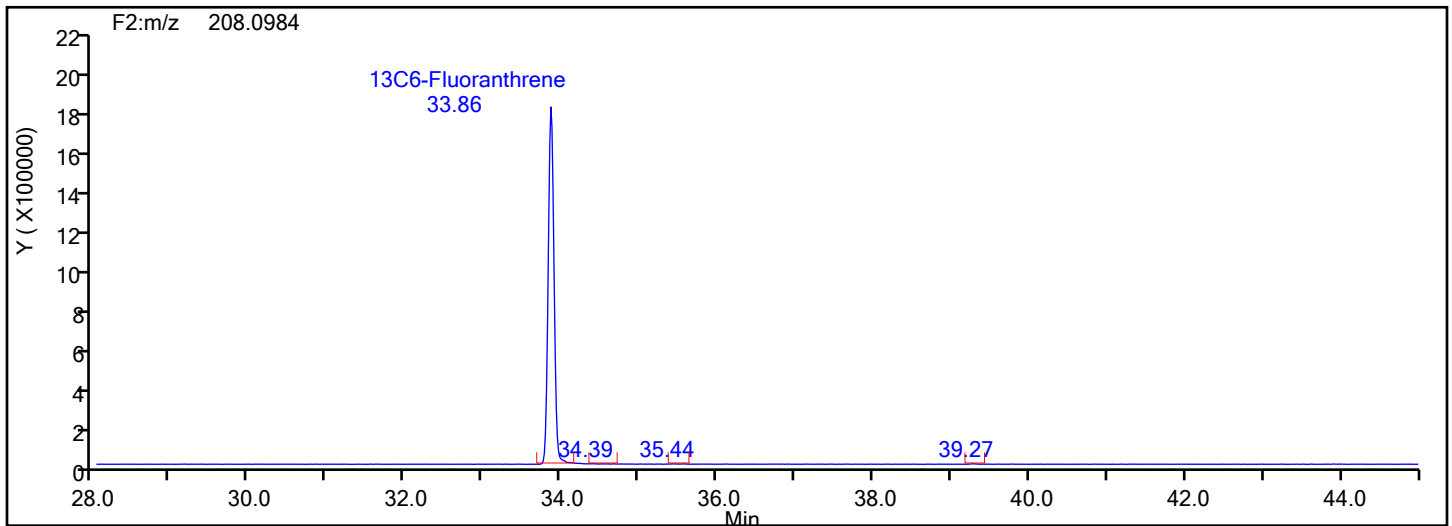


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



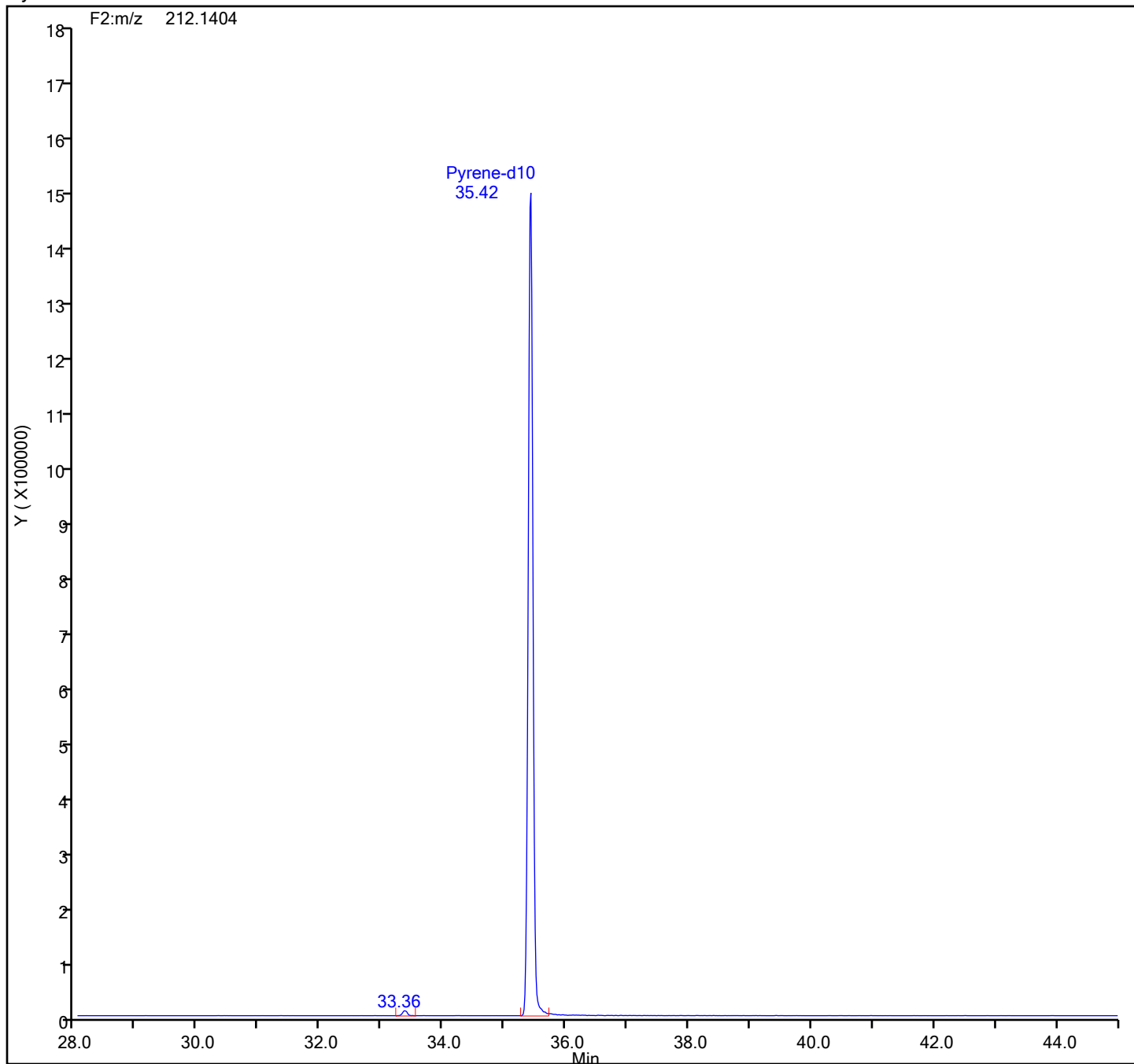
## Fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

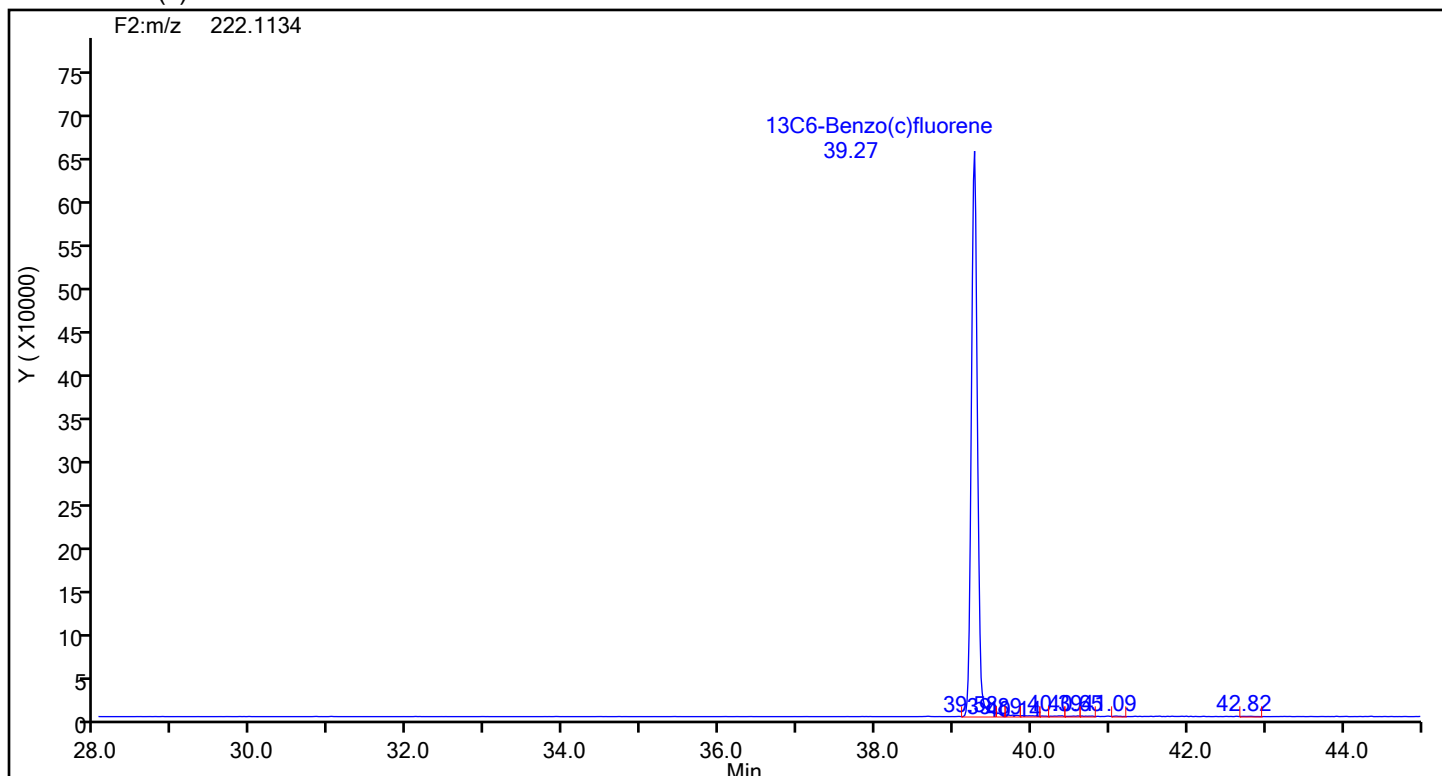
## Pyrene-d10 Standards



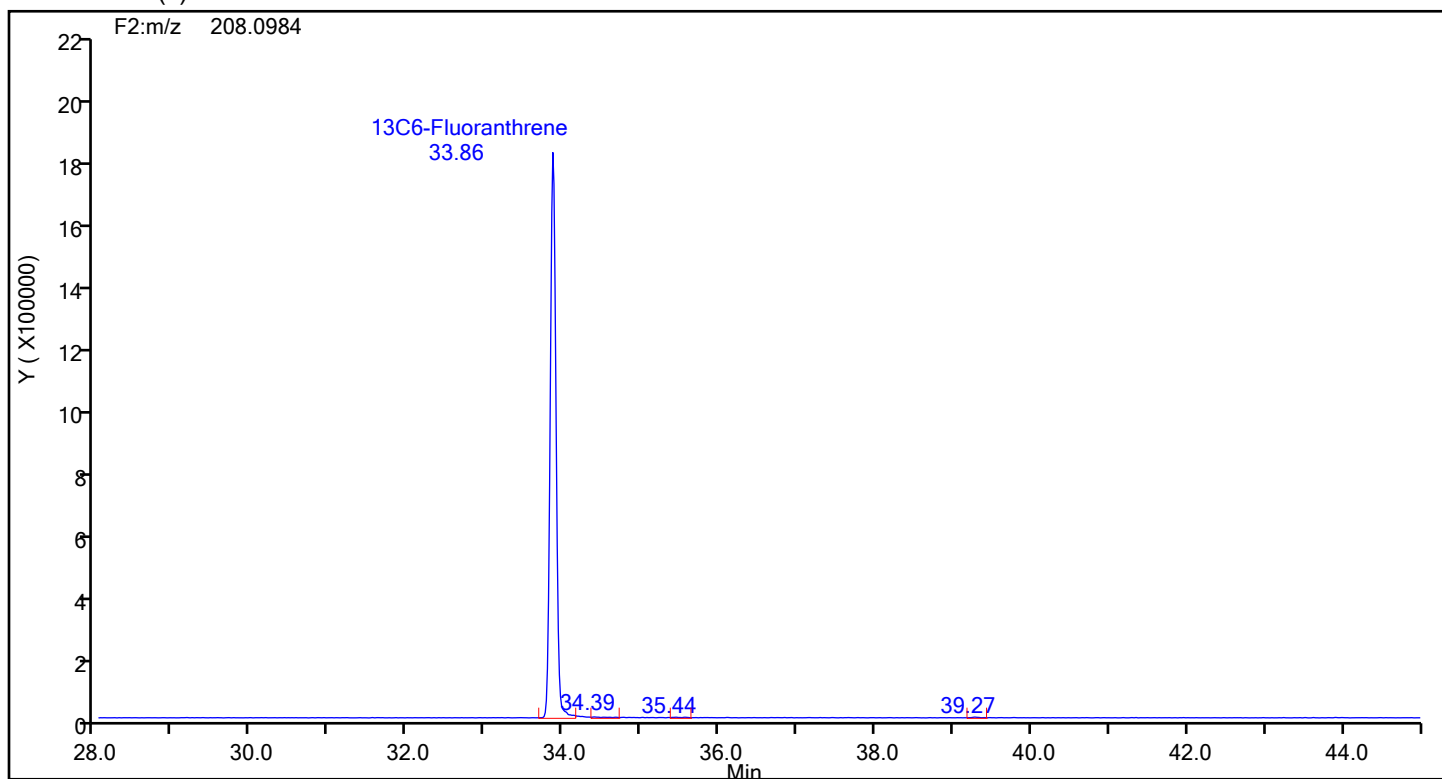


Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619ic4.d		
Injection Date:	19-Jun-2024 19:47:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	87843	Sample Line#:	4
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
13C6-Benzo(c)fluorene			



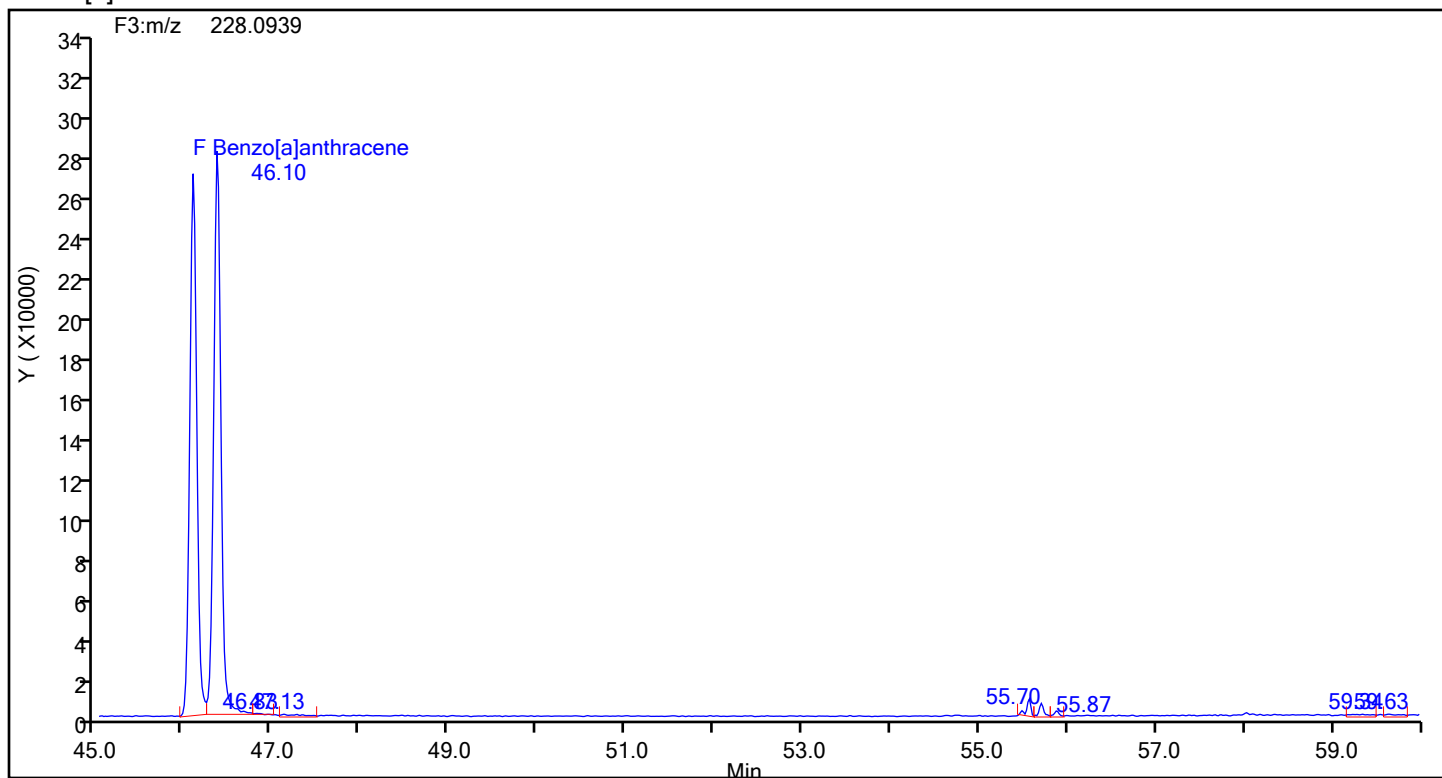
13C6-Benzo(c)fluorene Standards



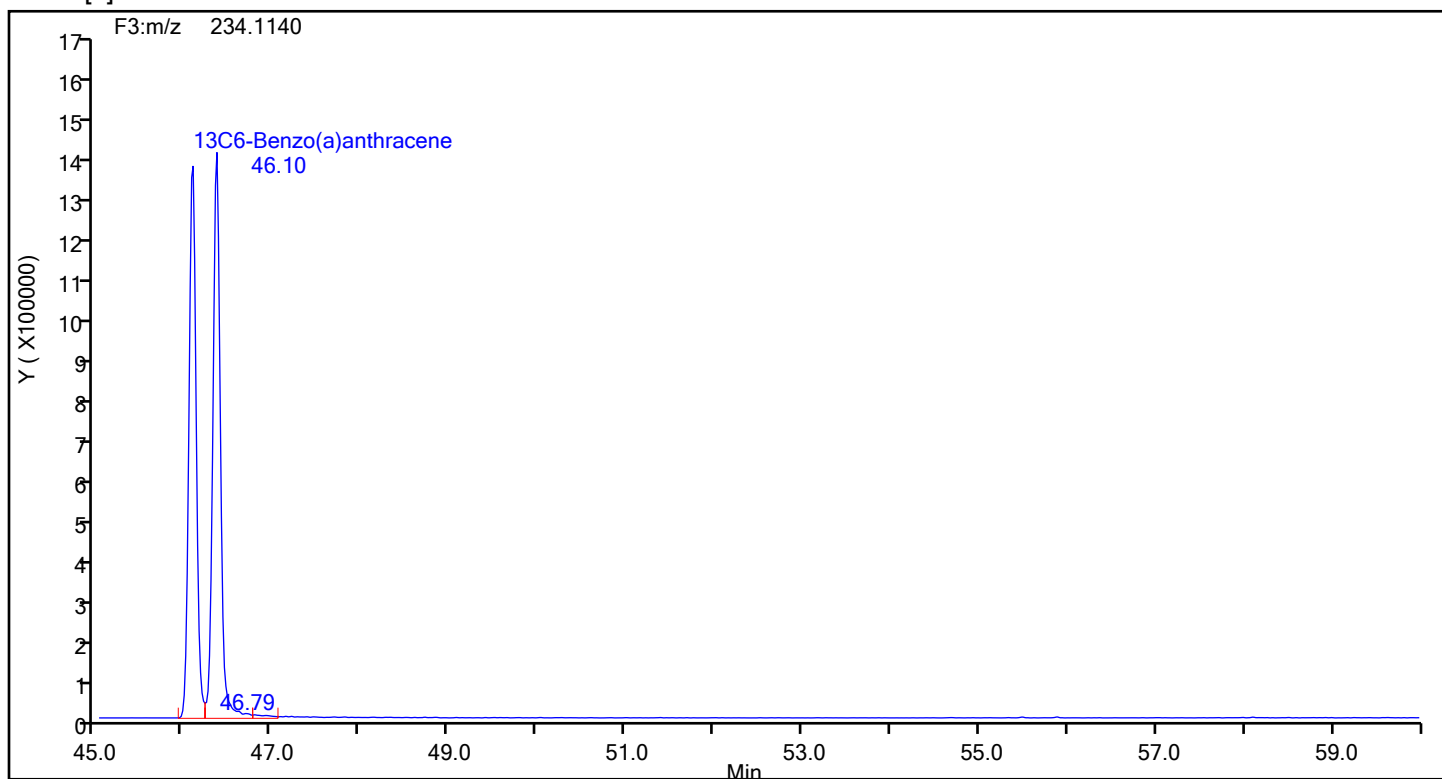
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



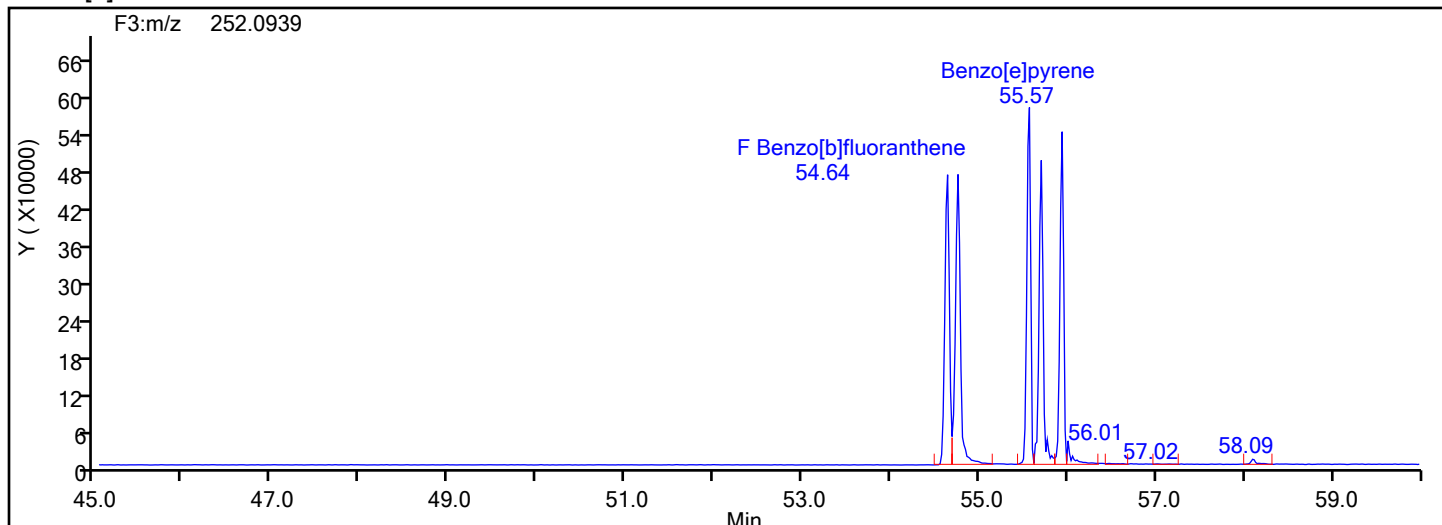
## Benzo[a]anthracene Standards



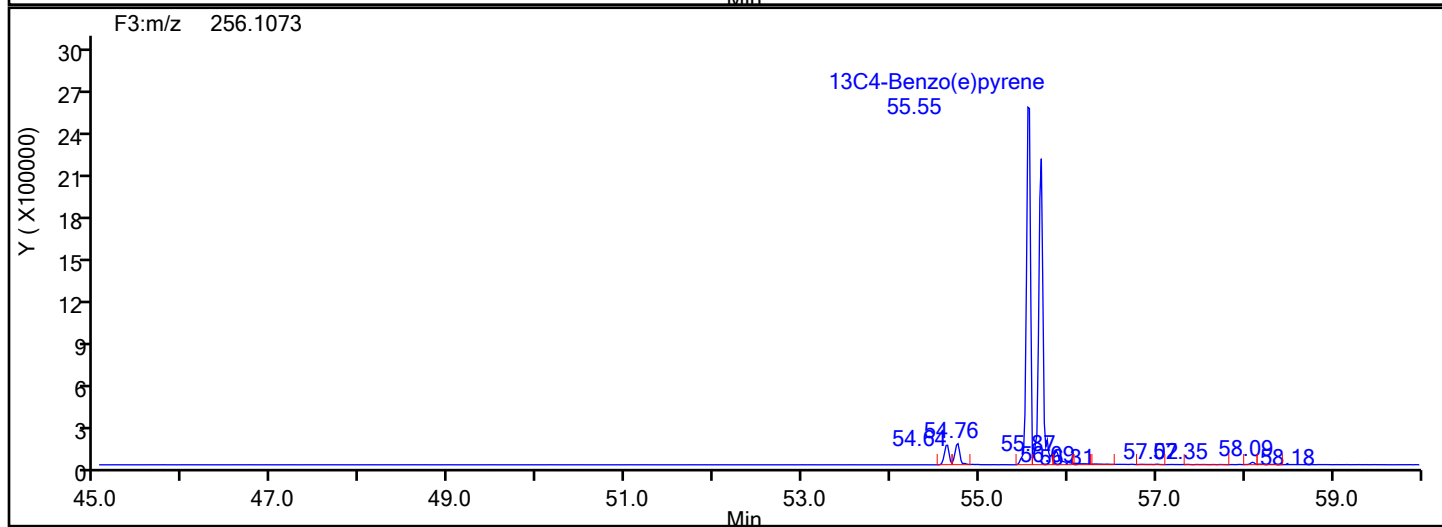
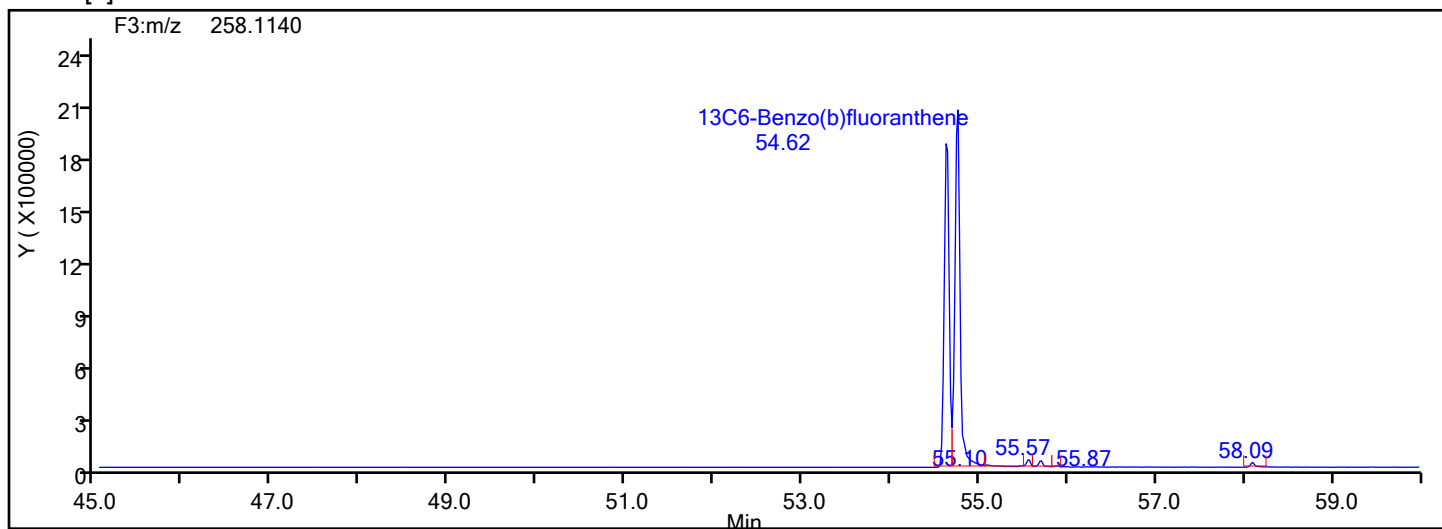
Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619ic4.d		
Injection Date:	19-Jun-2024 19:47:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	87843	Sample Line#:	4
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm

Benzo[b]fluoranthene



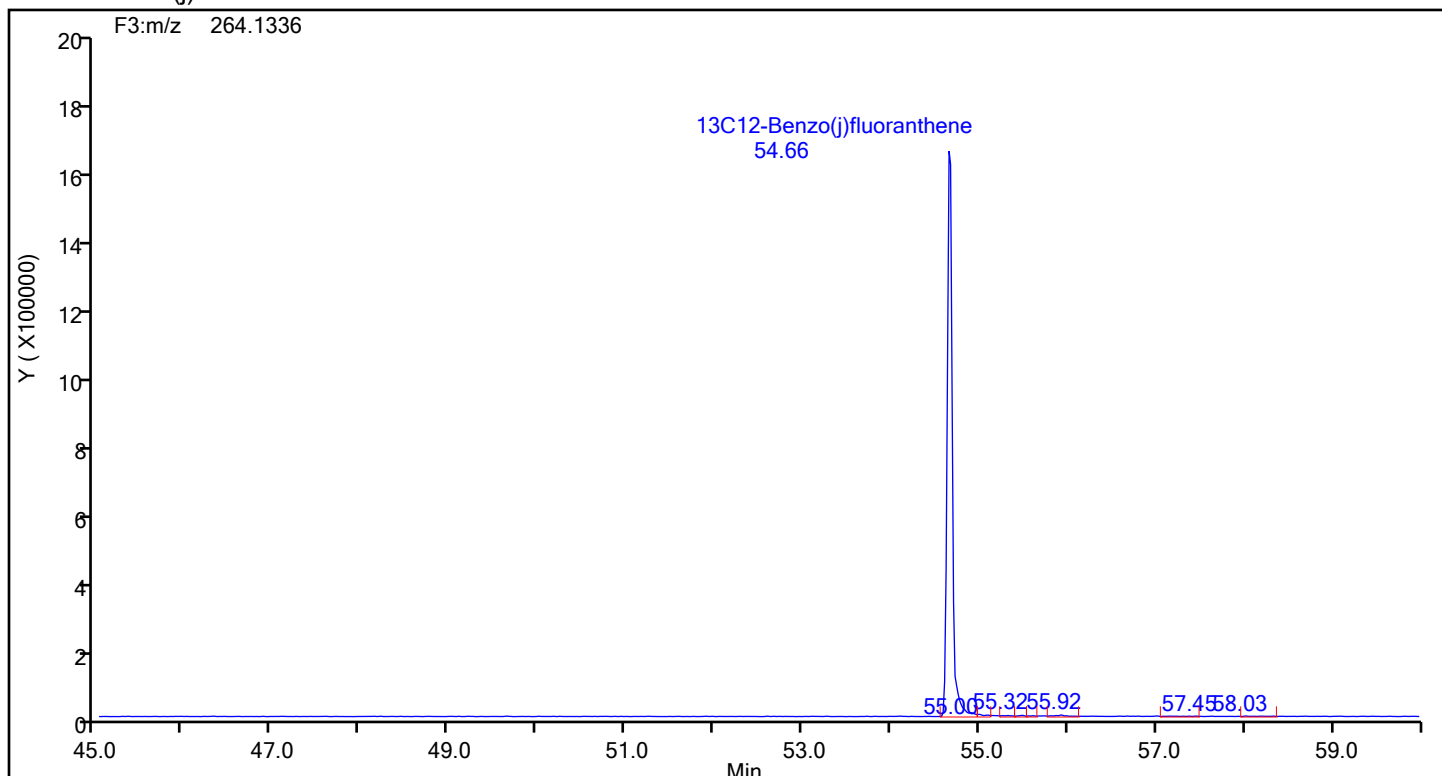
## Benzo[b]fluoranthene Standards



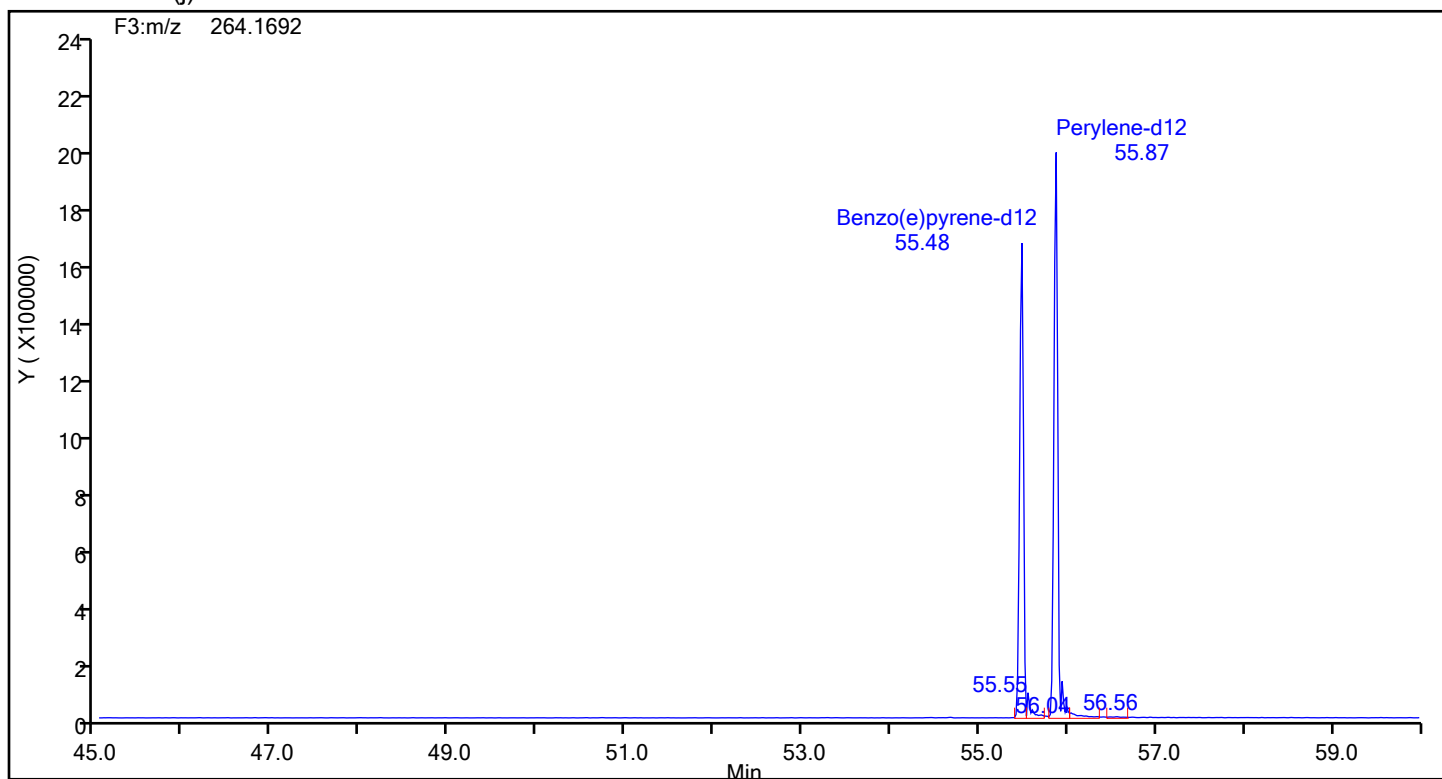
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



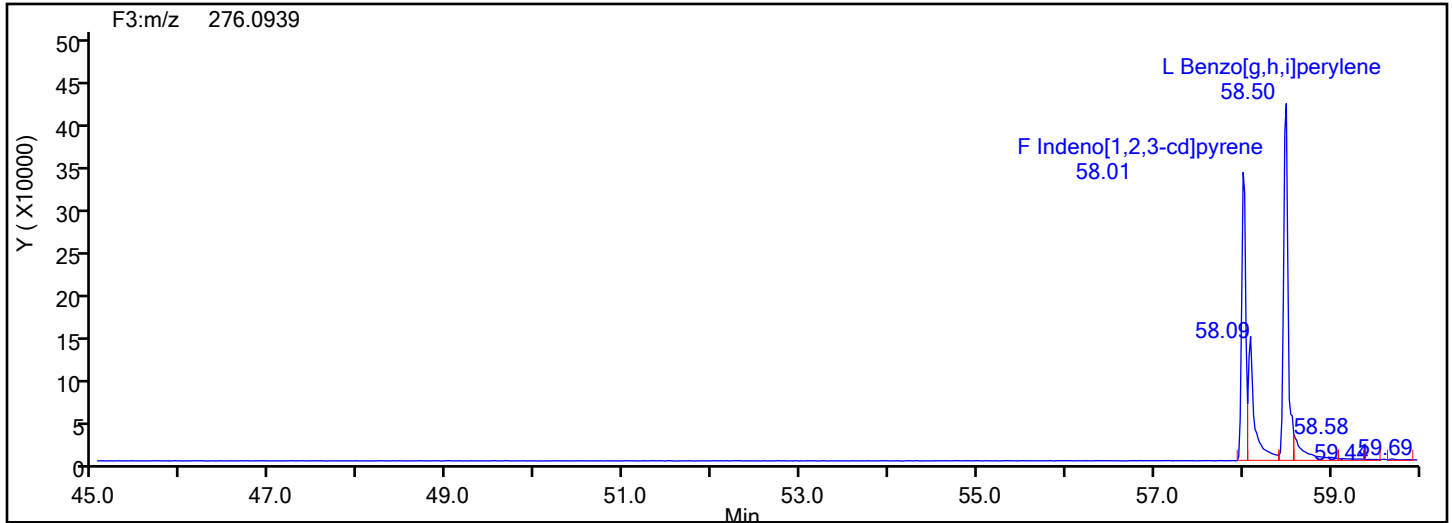
## 13C12-Benzo(j)fluoranthene Standards



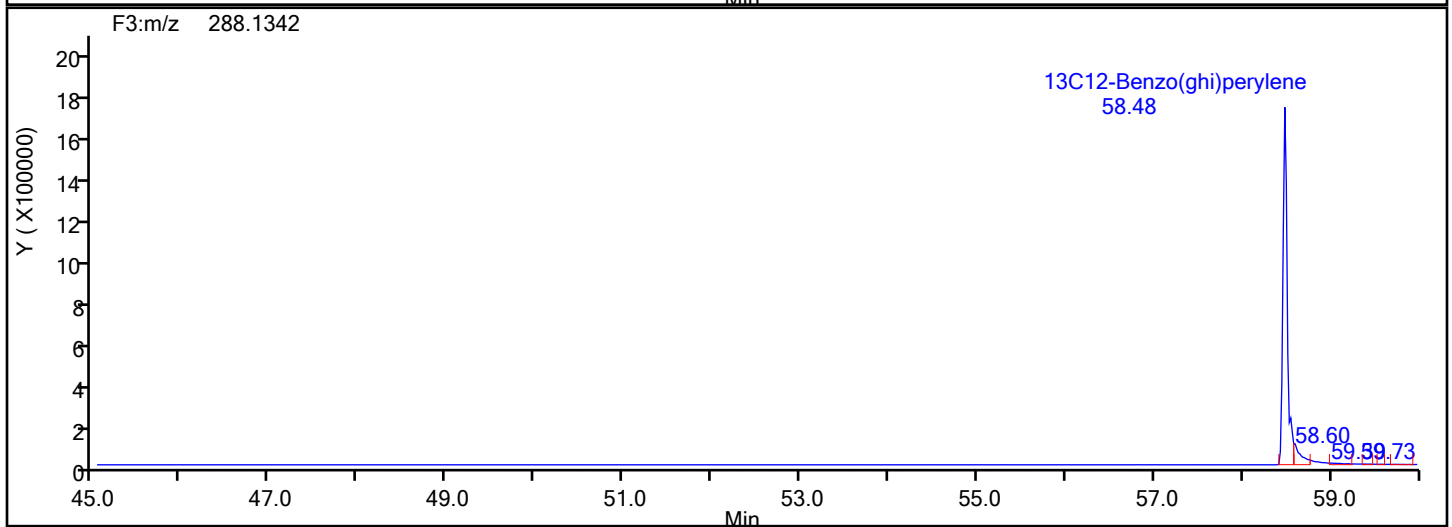
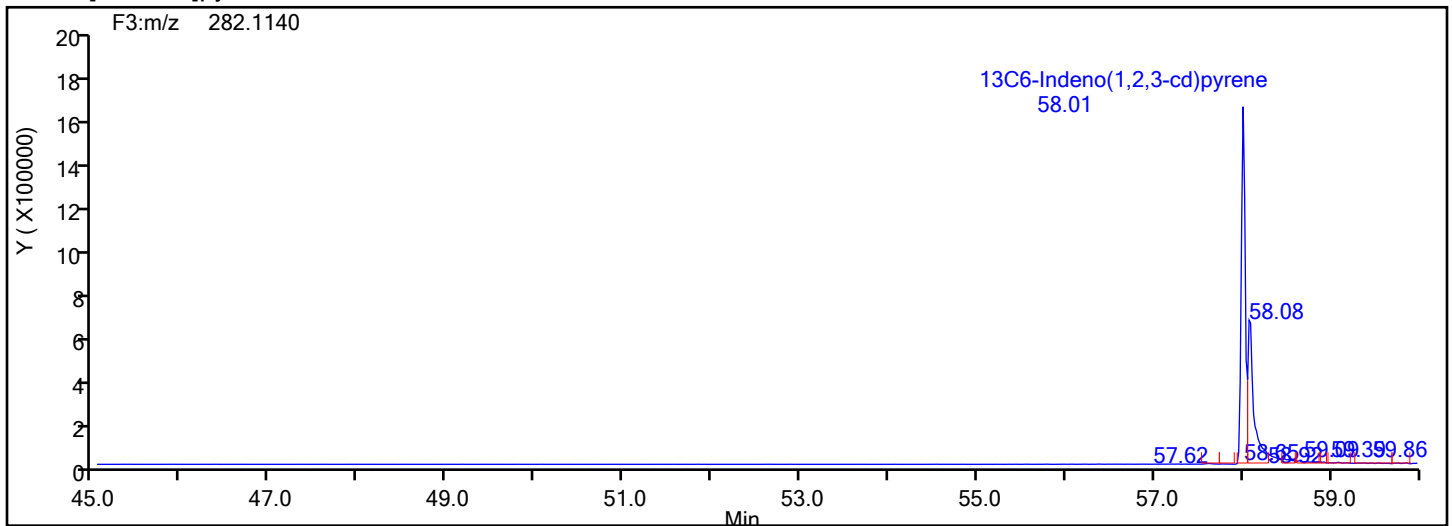
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

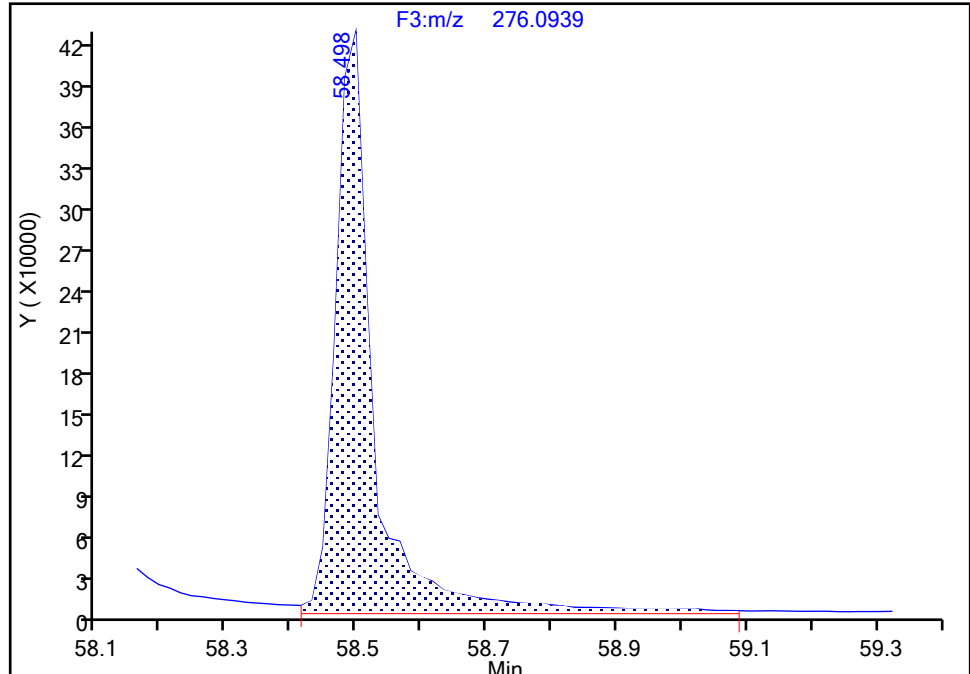
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

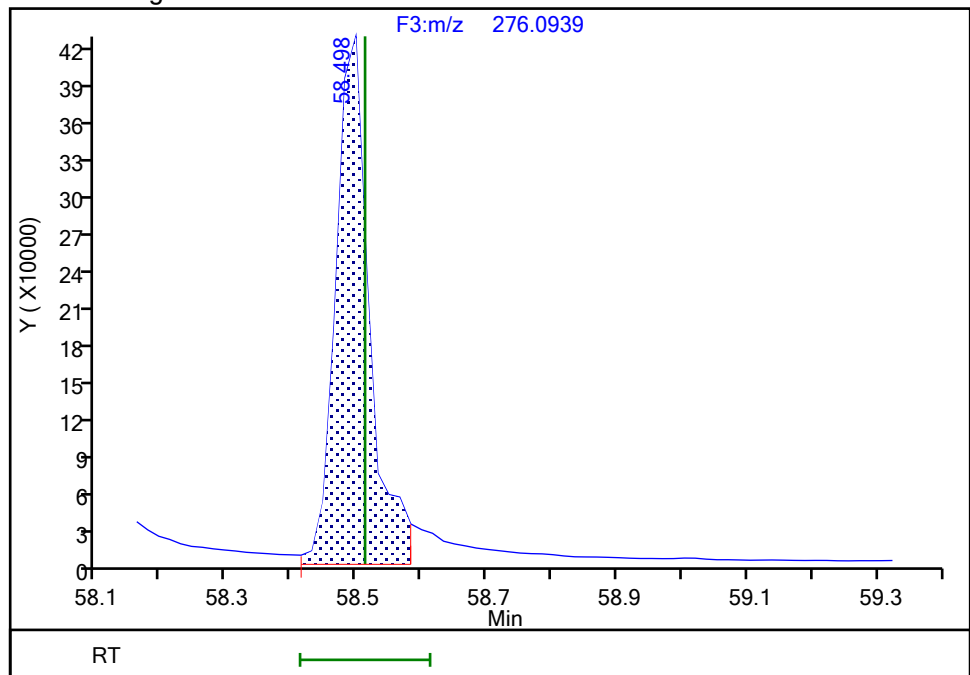
RT: 58.50  
Area: 1774253  
Amount: 22.249831  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.50  
Area: 1535539  
Amount: 19.750198  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

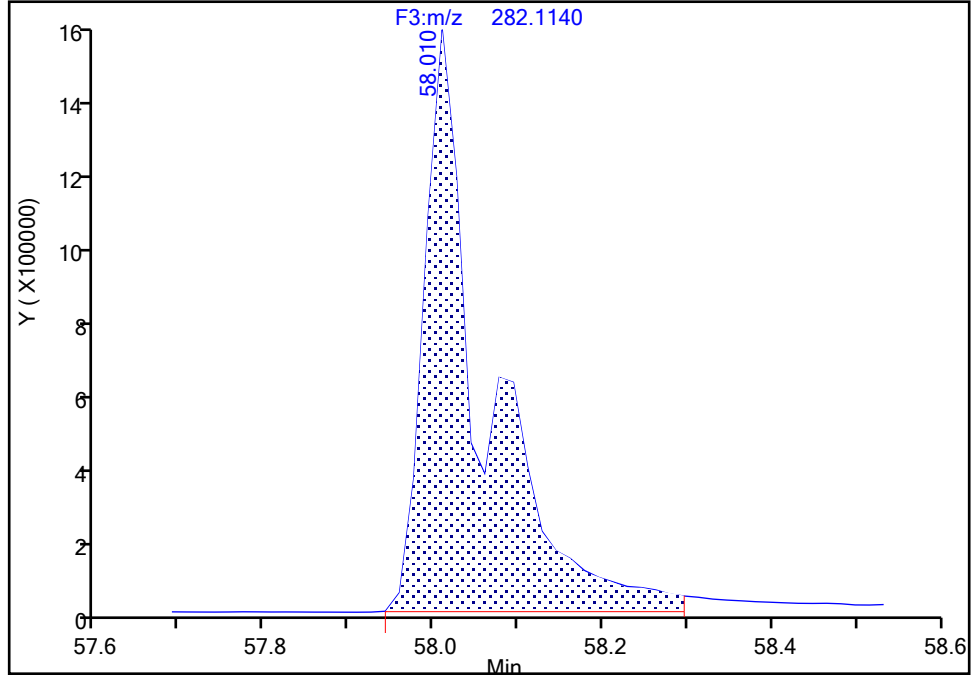
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Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2**

Signal: 1

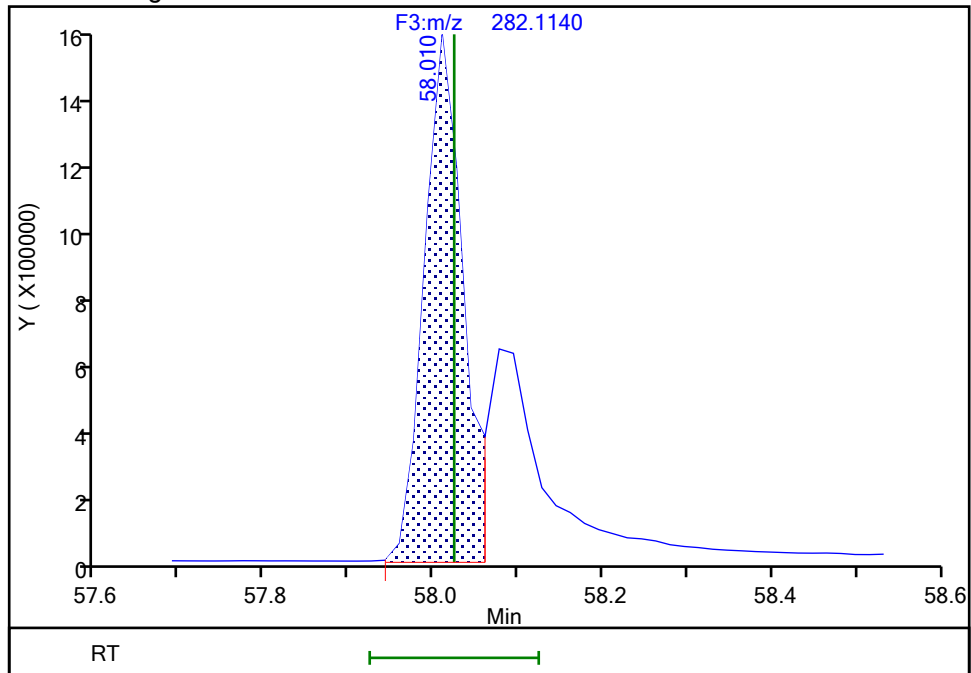
RT: 58.01  
Area: 7944490  
Amount: 138.0523  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.01  
Area: 5157889  
Amount: 100.7229  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

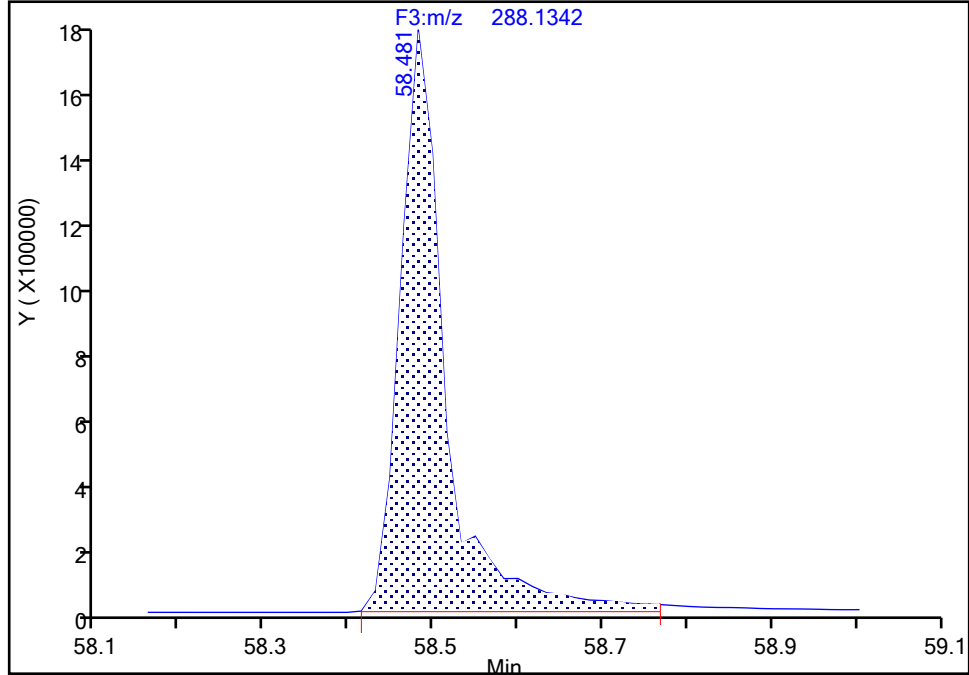
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C12-Benzo(ghi)perylene, CAS: 350820-11-0**

Signal: 1

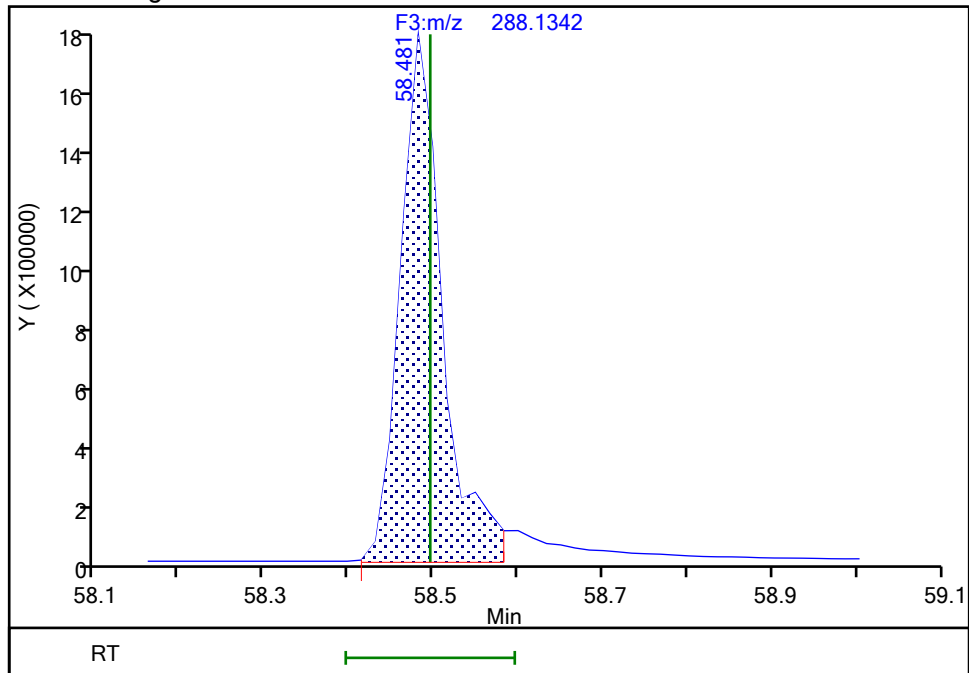
RT: 58.48  
Area: 6560124  
Amount: 98.048209  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.48  
Area: 6056294  
Amount: 94.793737  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

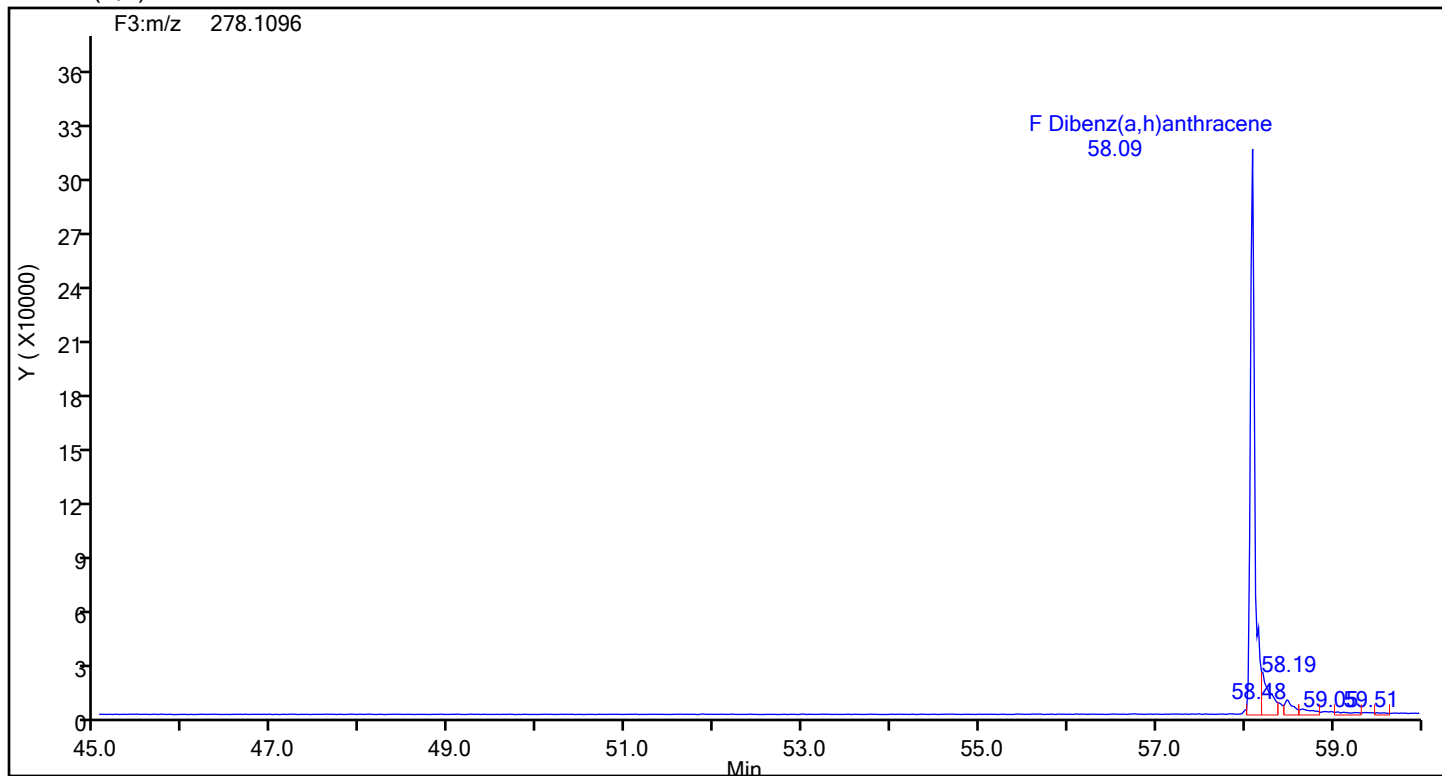
Audit Reason: Incomplete Integration



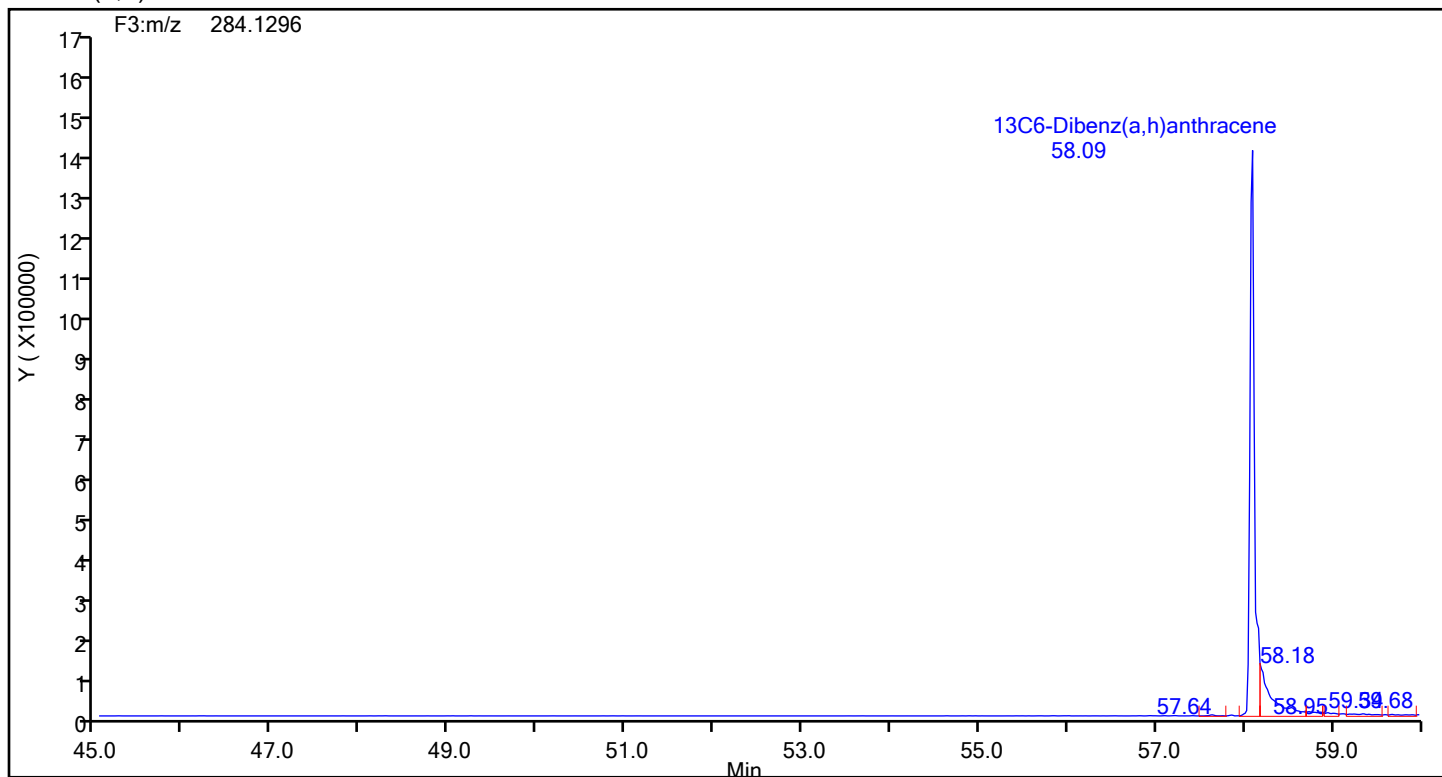
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 4  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

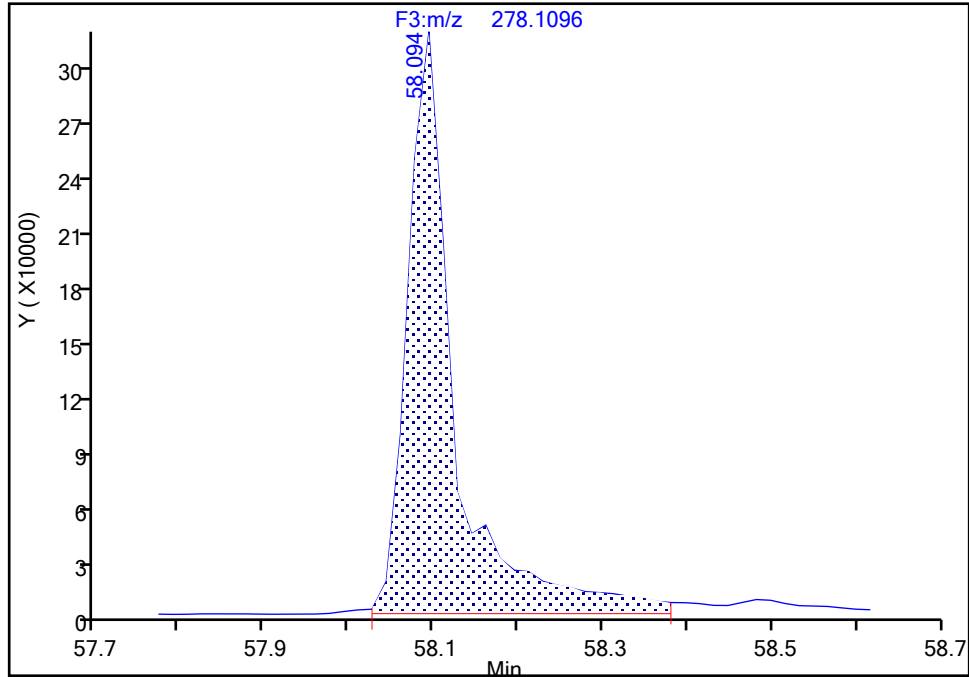
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**Dibenz(a,h)anthracene, CAS: 53-70-3**

Signal: 1

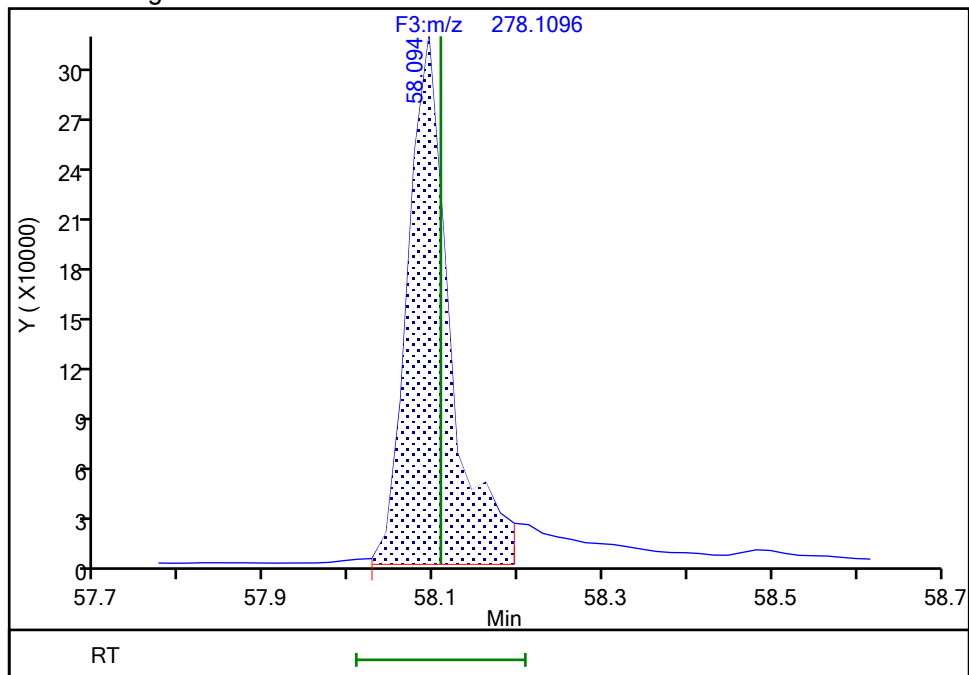
RT: 58.09  
Area: 1232103  
Amount: 21.755514  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.09  
Area: 1098846  
Amount: 19.471060  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:50 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

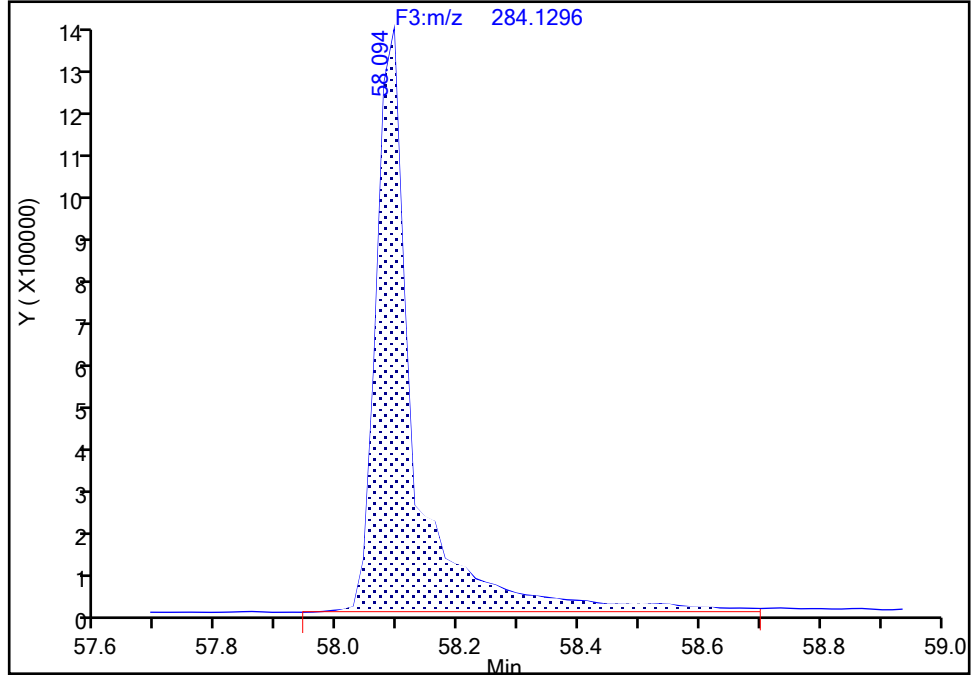
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic4.d  
Injection Date: 19-Jun-2024 19:47:00 Instrument ID: D3PAH  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Dibenz(a,h)anthracene, CAS: STL03360**

Signal: 1

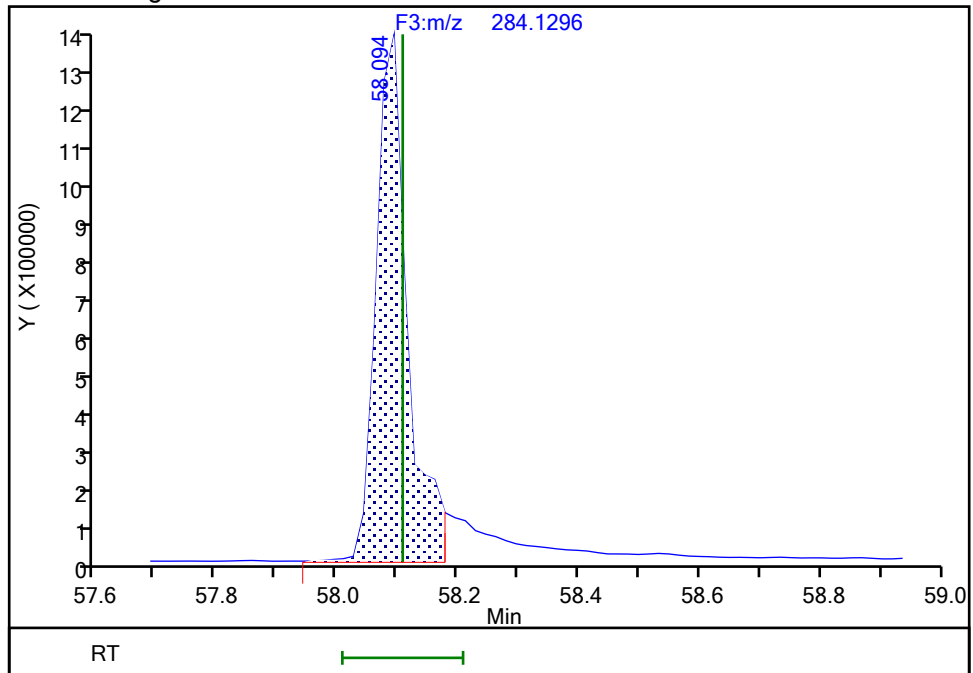
RT: 58.09  
Area: 6017320  
Amount: 102.2732  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.09  
Area: 4988169  
Amount: 94.323143  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:35:42 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Lims ID: IC L5  
Client ID:  
Sample Type: IC Calib Level: 5  
Inject. Date: 19-Jun-2024 20:51:00 ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-005  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 20-Jun-2024 09:51:46 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:48

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	10955076		3.3746	106.7	106.7	0.005904	0.005904	107	
Naphthalene	11:33	7473056		1.2893	52.9	52.9	0.0245	0.0245	106	
D 13C6-2-Methylnaphthalene	13:52	4932932		1.6031	101.1	101.1	0.001290	0.001290	101	
2-Methylnaphthalene	13:52	3363658		1.2786	53.3	53.3	0.0222	0.0222	107	
D 13C6-Acenaphthylene	16:44	5031692		1.6520	100.1	100.1	0.000683	0.000683	100	
Acenaphthylene	16:45	3367785		2.3661	48.6	48.6	0.0245	0.0245	97.16	
* Acenaphthene-d10	17:19	3042646		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	2929756		0.9792	98.3	98.3	0.001632	0.001632	98.34	
Acenaphthene	17:26	1886298		1.2697	50.7	50.7	0.0296	0.0296	101	
D 13C6-Fluorene	19:43	2645576		0.8898	97.7	97.7	0.000211	0.000211	97.71	
Fluorene	19:44	1683007		1.2532	50.8	50.8	0.0362	0.0362	102	
D 13C6-Phenanthrene	25:07	4005566		0.5724	100.0	100.0	0.003590	0.003590	100	
Phenanthrene	25:07	2244288		1.1044	50.7	50.7	0.0388	0.0388	101	
\$ Anthracin-d10	25:20	2982348		0.4257	100.2	100.2	0.001252	0.001252	100	
D 13C6-Anthracene	25:26	3095933		0.4523	97.9	97.9	0.004543	0.004543	97.86	
Anthracene	25:27	2030307		1.3586	48.3	48.3	0.0433	0.0433	96.54	
D 13C6-Fluoranthrene	33:52	8354538		1.1994	99.6	99.6	0.0211	0.0211	99.59	
Fluoranthrene	33:53	4770414		1.1513	49.6	49.6	0.0165	0.0165	99.19	
* Pyrene-d10	35:25	6994144		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	9271369		1.3512	98.1	98.1	0.0130	0.0130	98.10	
Pyrene	35:34	4880169		1.0652	49.4	49.4	0.0164	0.0164	98.83	
\$ 13C6-Benzo(c)fluorene	39:16	3562609		0.5136	99.2	99.2	0.002964	0.002964	99.18	
D 13C6-Benzo(a)anthracene	46:06	7783391		1.5189	96.4	96.4	0.0149	0.0149	96.35	
Benzo[a]anthracene	46:06	3701131		0.9739	48.8	48.8	0.0259	0.0259	97.66	
D 13C6-Chrysene	46:23	8407429		1.6287	97.1	97.1	0.0139	0.0139	97.06	
Chrysene	46:23	4046826		0.9815	49.0	49.0	0.0248	0.0248	98.09	
D 13C6-Benzo(b)fluoranthene	54:38	7699352		1.4621	99.0	99.0	0.000971	0.000971	99.02	
Benzo[b]fluoranthene	54:39	4268765		1.1249	49.3	49.3	0.008037	0.008037	98.57	
\$ 13C12-Benzo(j)fluoranthene	54:40	6879595		1.3558	95.4	95.4	0.0142	0.0142	95.41	
D 13C6-Benzo(k)fluoranthene	54:46	9021801		1.7507	96.9	96.9	0.000811	0.000811	96.90	
Benzo[k]fluoranthene	54:46	4838139		1.1271	47.6	47.6	0.007450	0.007450	95.16	
* Benzo(e)pyrene-d12	55:29	5318283		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:33	8346864		1.6368	95.9	95.9	0.0109	0.0109	95.88	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:34	4054021		1.0013	48.5	48.5	0.006790	0.006790	97.02	
Benzo[a]pyrene	55:43	4220425		1.1130	47.9	47.9	0.006988	0.006988	95.80	
D 13C4-Benzo(a)pyrene	55:43	7915726		1.5508	96.0	96.0	0.0115	0.0115	95.98	
D Perylene-d12	55:53	6306802		1.1917	99.5	99.5	0.0156	0.0156	99.51	
Perylene	55:57	4390716		1.4307	48.7	48.7	0.006162	0.006162	97.32	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	4835402		1.0218	89.0	89.0	0.009555	0.009555	88.98	
Indeno[1,2,3-cd]pyrene	58:01	2816296		1.1249	51.8	51.8	0.007698	0.007698	104	
D 13C6-Dibenz(a,h)anthracene	58:06	5397040		1.0553	96.2	96.2	0.004680	0.004680	96.17	M
Dibenz(a,h)anthracene	58:06	2789079		1.1314	45.7	45.7	0.006309	0.006309	91.35	M
D 13C12-Benzo(ghi)perylene	58:29	6552075		1.2749	96.6	96.6	0.005655	0.005655	96.64	M
Benzo[g,h,i]perylene	58:30	3911770		1.2838	46.5	46.5	0.006063	0.006063	93.01	M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS4a\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

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 Sample Type: IC Calib Level: 5  
 Inject. Date: 19-Jun-2024 20:51:00 ALS Bottle#: 0 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033168-005  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Sublist: chrom-EPA\_23\_\_PAH\*sub1  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
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 Last Update: 20-Jun-2024 09:51:46 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:36:48

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	10955076	3690318	85	212	43416		
Naphthalene											
128.0626	11:33	11:34	-1	1.001	7473056	2421498	467	1167	5185		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	4932932	2219700	9	22	246633		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.000	3363658	1603367	252	630	6363		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	5031692	1788464	5	12	357693		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	3367785	1171577	235	587	4985		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3042646	1064056	1	2	1064056		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	2929756	1010685	7	17	144384		
Acenaphthene											
154.0783	17:26	17:27	-1	1.001	1886298	641803	152	380	4222		
13C6-Fluorene											
172.0984	19:43	19:45	-1	1.139	2645576	771302	1	2	771302		
Fluorene											
166.0783	19:44	19:45	-1	1.001	1683007	495116	140	350	3537		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4005566	933714	11	27	84883		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	2244288	517487	160	400	3234		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	2982348	664576	3	7	221525		
13C6-Anthracene											
184.0984	25:26	25:28	-1	0.718	3095933	679951	11	27	61814		
Anthracene											
178.0783	25:27	25:28	-1	1.000	2030307	457999	160	400	2862		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	8354538	1617360	133	332	12161		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	4770414	908731	123	307	7388		
Pyrene-d10											
212.1404	35:25	35:27	-2		6994144	1313834	42	105	31282		
13C3-Pyrene											
205.0883	35:34	35:35	-2	1.004	9271369	1754432	92	230	19070		
Pyrene											
202.0783	35:34	35:35	-2	1.000	4880169	909669	123	307	7396		
13C6-Benzo(c)fluorene											
222.1134	39:16	39:18	-2	0.708	3562609	636801	8	20	79600		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-1	1.302	7783391	1336753	160	400	8355		
Benzo[a]anthracene											
228.0939	46:06	46:07	-1	1.000	3701131	660493	135	337	4893		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.309	8407429	1384733	160	400	8655		
Chrysene											
228.0939	46:23	46:25	-2	1.000	4046826	679022	135	337	5030		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	7699352	1991062	10	25	199106		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	4268765	1153146	72	180	16016		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	6879595	1746396	136	340	12841		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	9021801	2143610	10	25	214361		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	4838139	1188451	72	180	16506		
Benzo(e)pyrene-d12											
264.1692	55:29	55:30	-1		5318283	1761536	131	327	13447		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:35	-2	1.001	8346864	2647431	126	315	21011		
Benzo[e]pyrene											
252.0939	55:34	55:35	-1	1.000	4054021	1299546	72	180	18049		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	4220425	1260424	72	180	17506		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	7915726	2314097	126	315	18366		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	6306802	2041734	131	327	15586		
Perylene											
252.0939	55:57	55:58	-1	1.001	4390716	1415669	72	180	19662		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	4835402	1674298	69	172	24265		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	2816296	896117	58	145	15450		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	5397040	1400928	35	87	40027		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	2789079	785976	40	100	19649		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	6552075	1862971	51	127	36529		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	3911770	1026772	58	145	17703		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS4a\_00002

Amount Added: 20.00

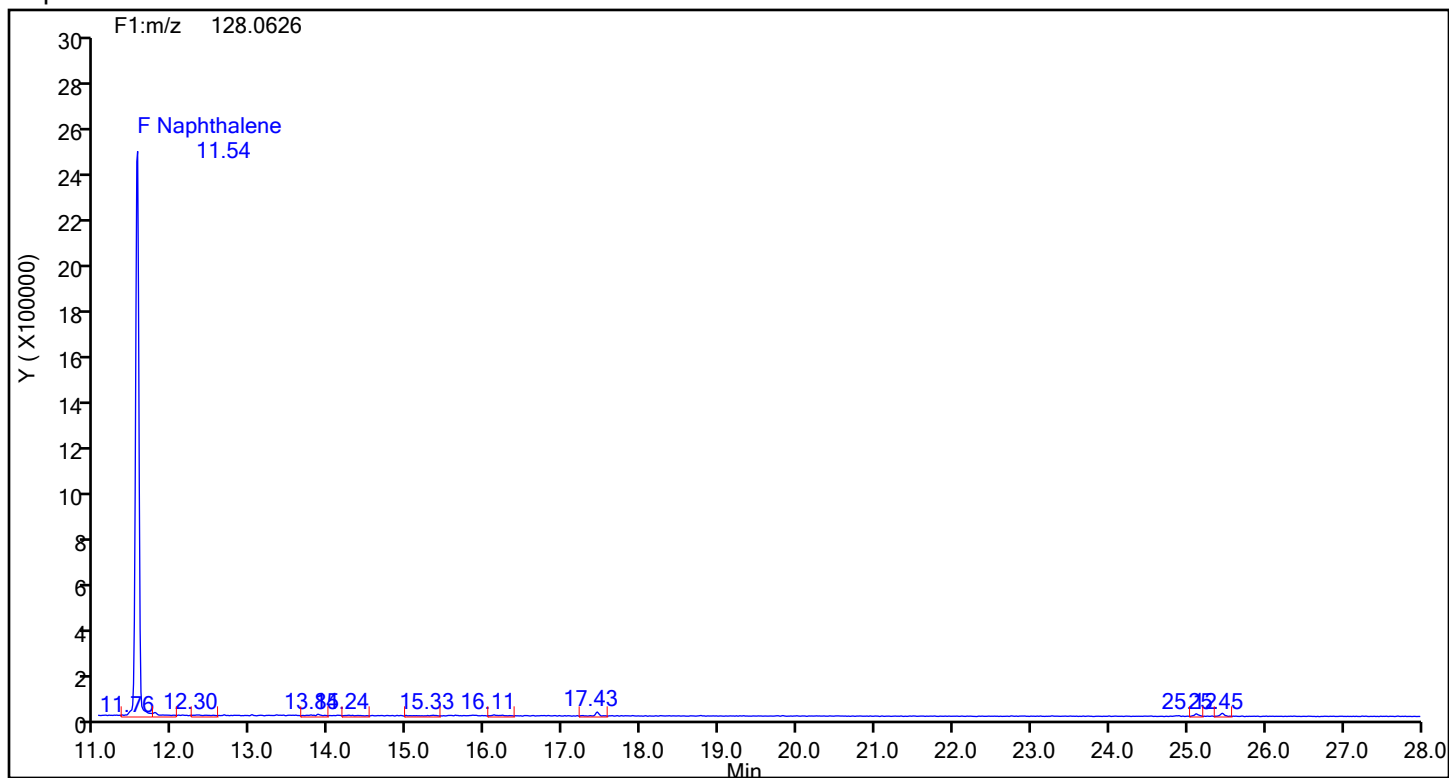
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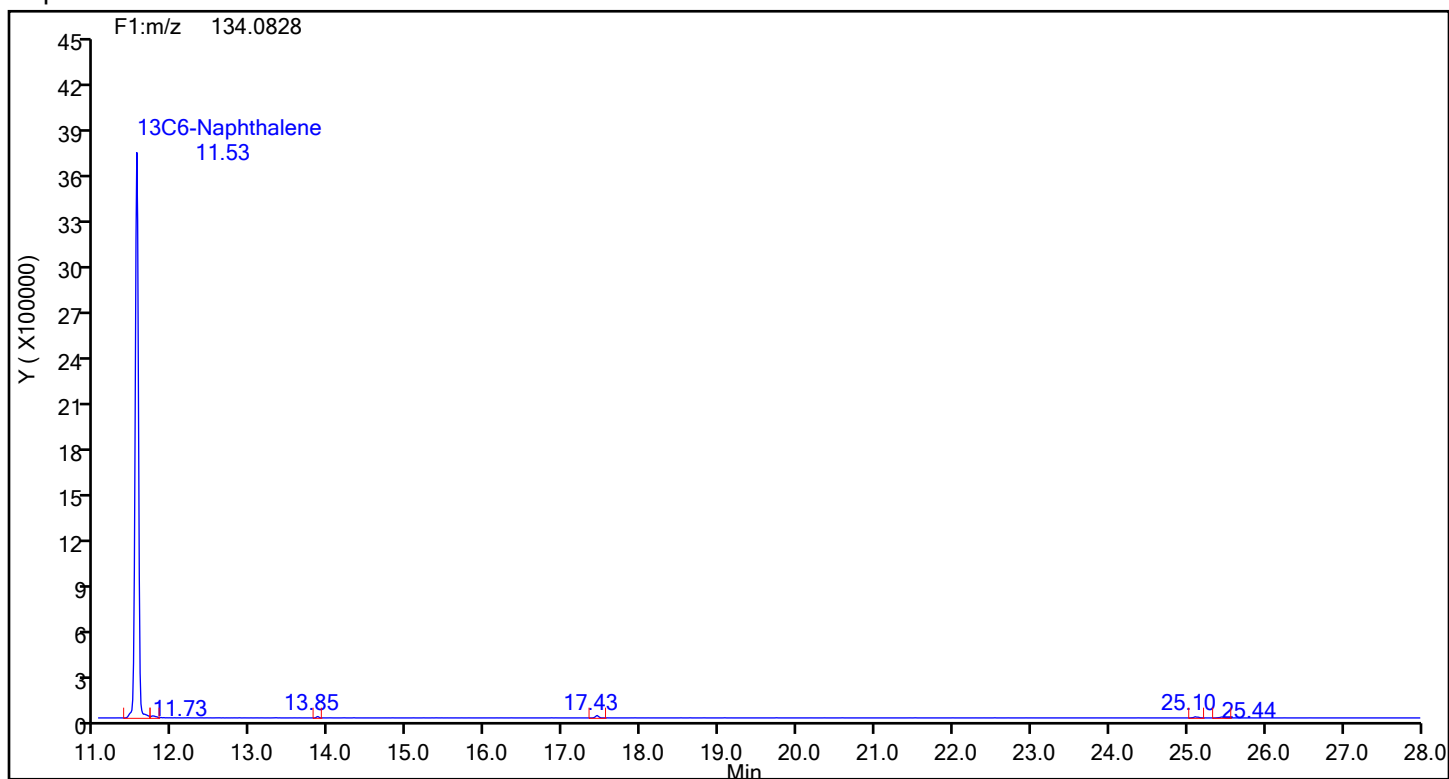
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



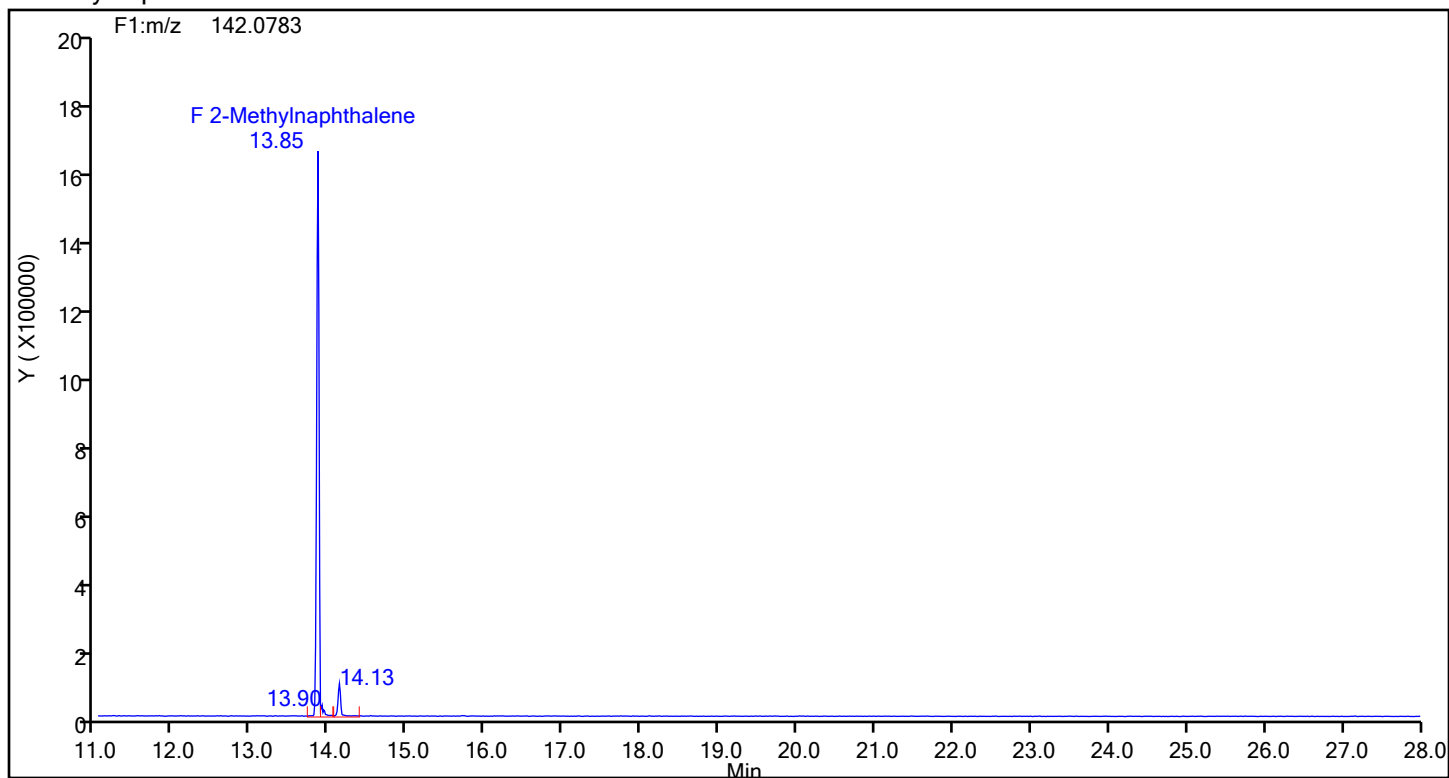
## Naphthalene Standards



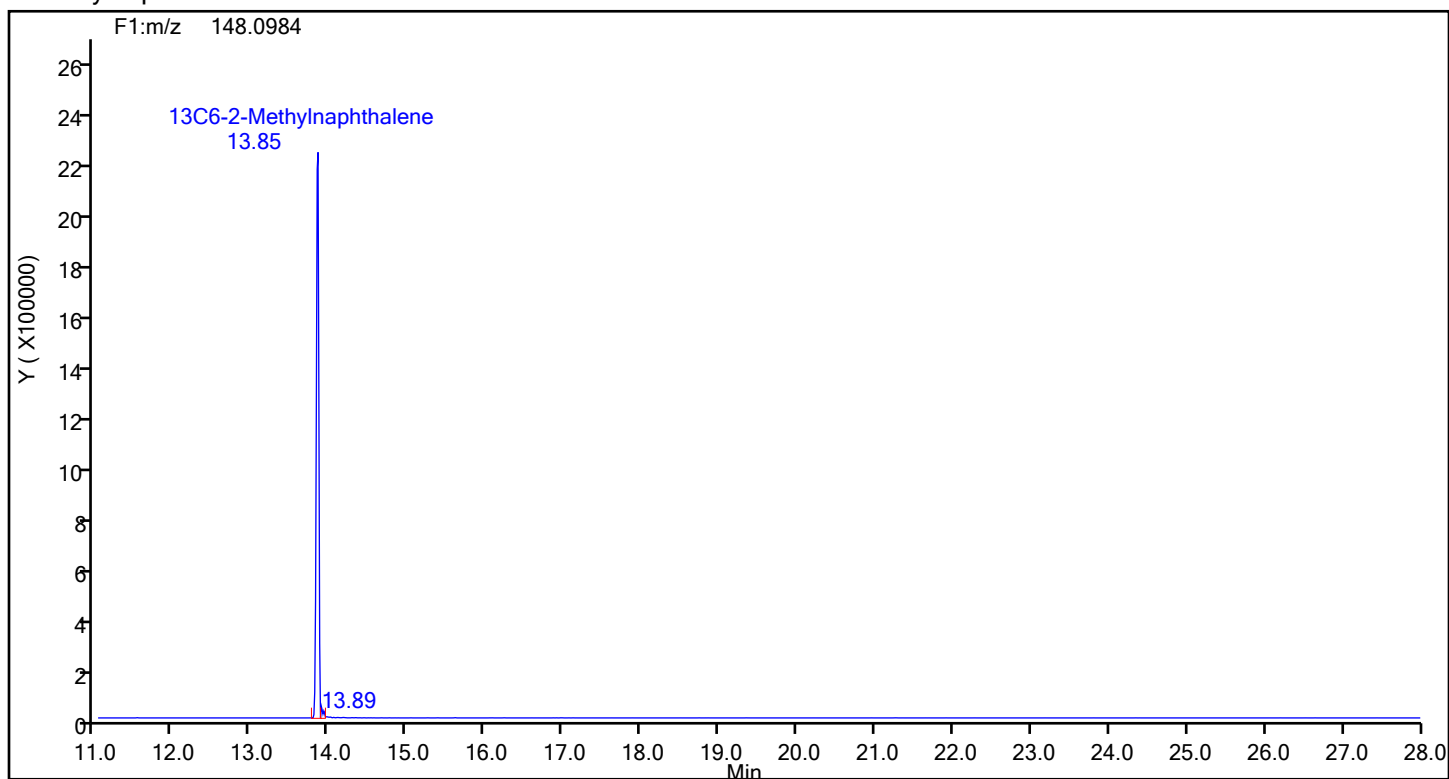
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



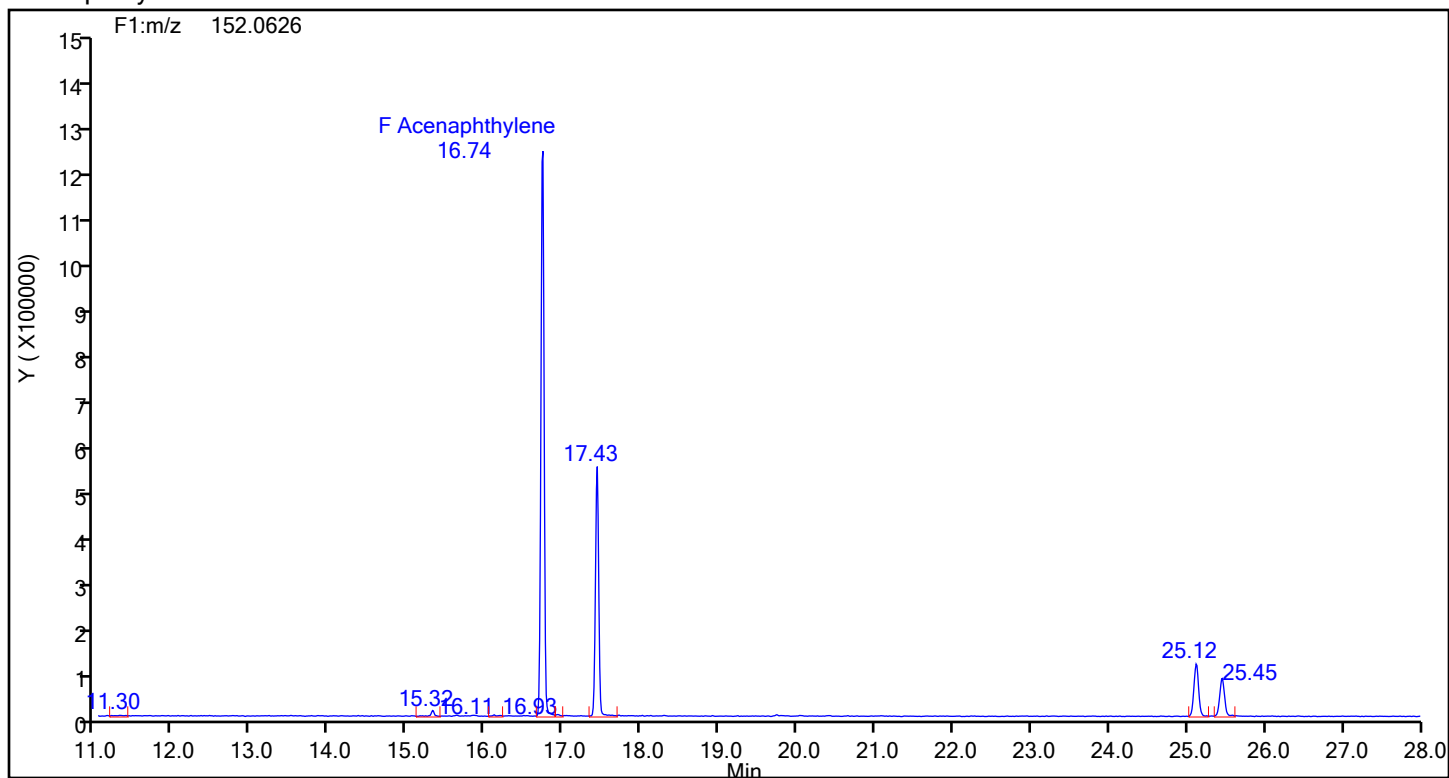
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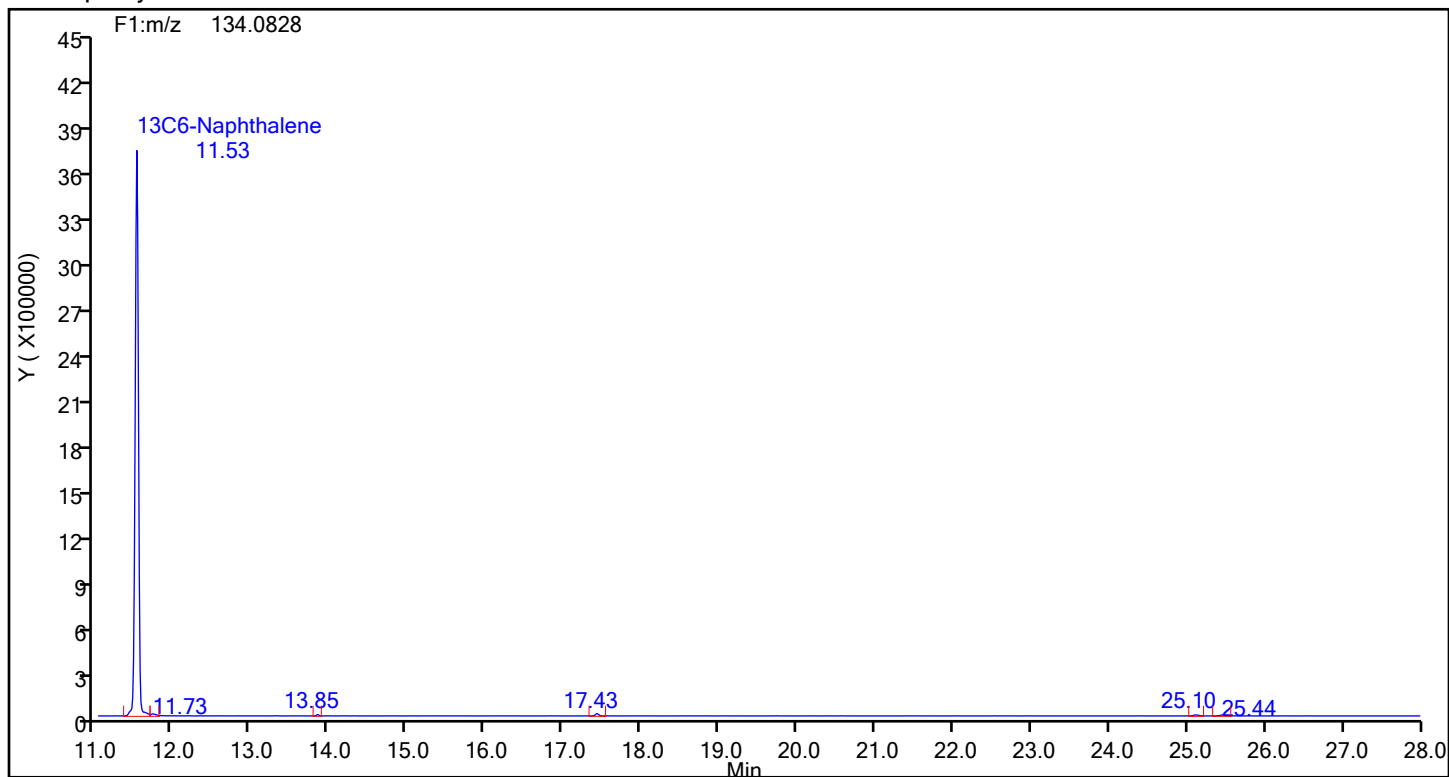
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene

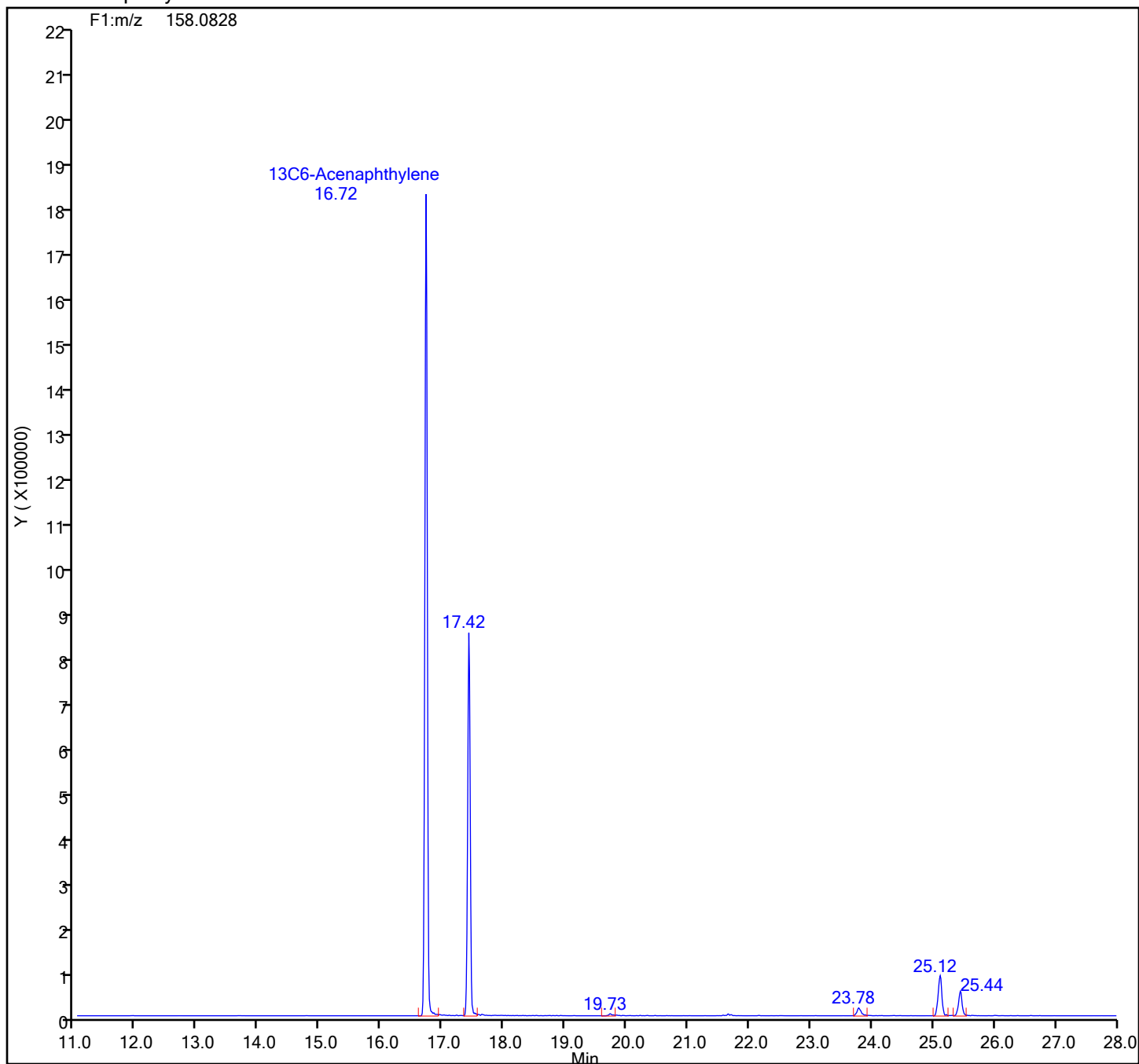


## Acenaphthylene Standards



## Eurofins Knoxville

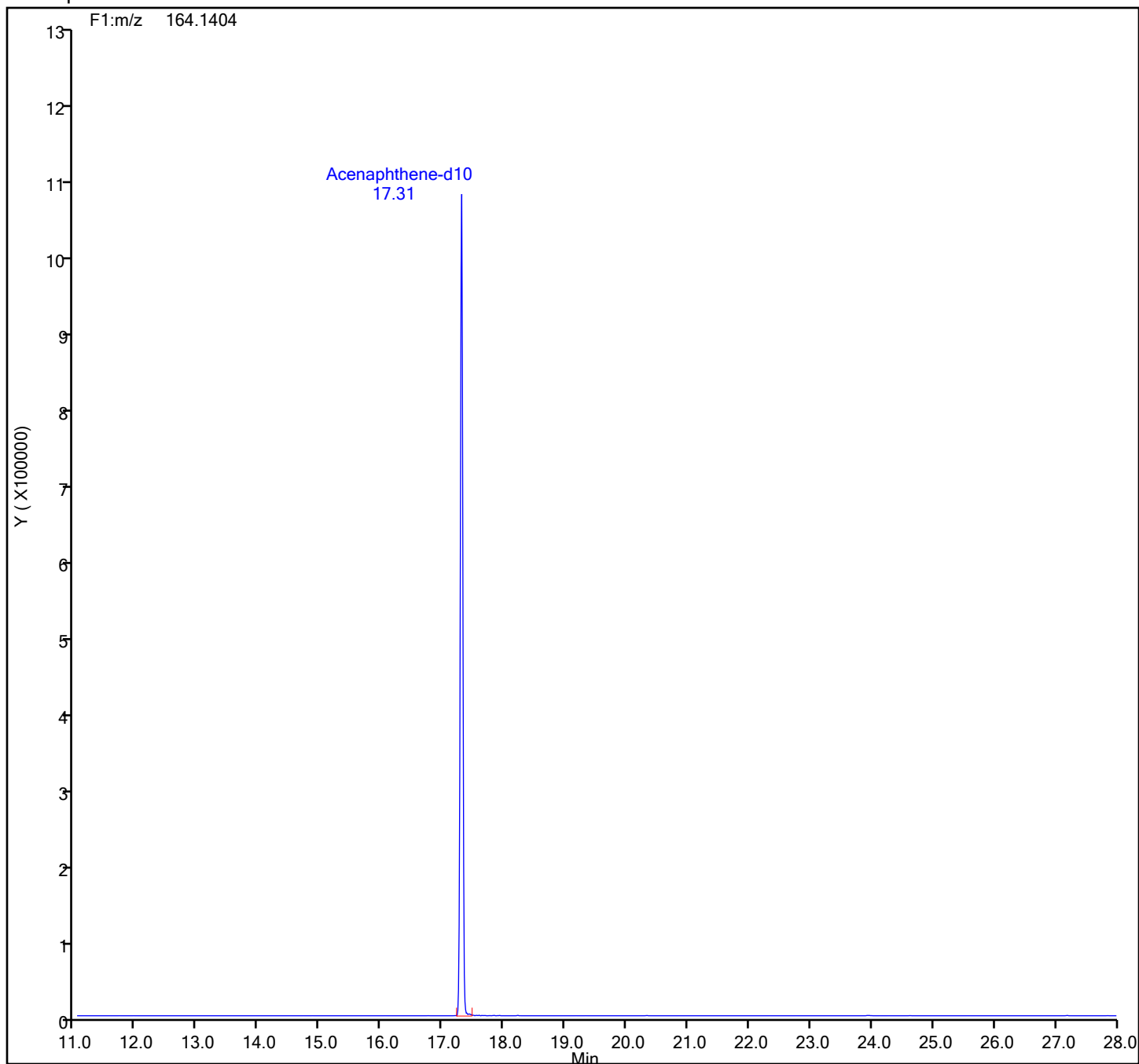
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13C6-Acenaphthylene Standards



## Eurofins Knoxville

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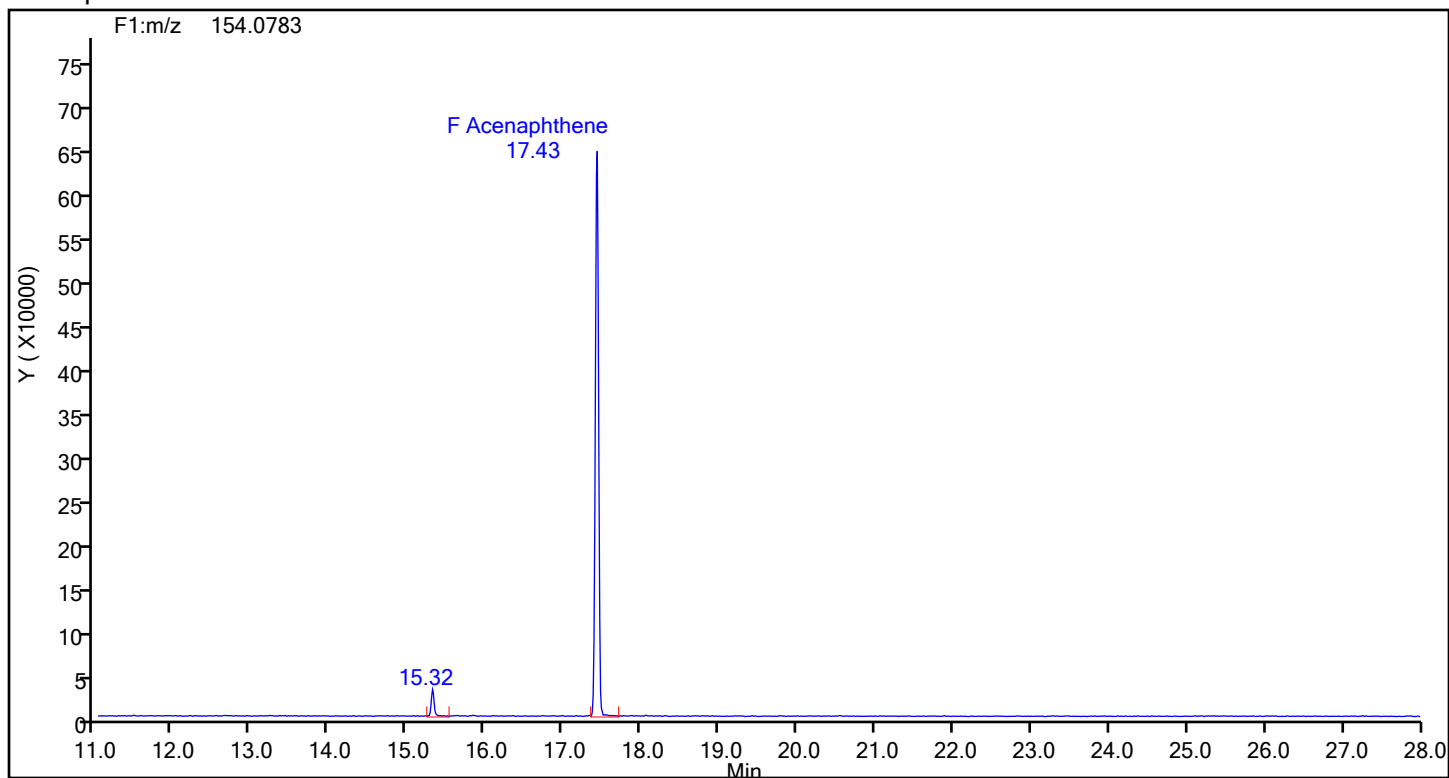
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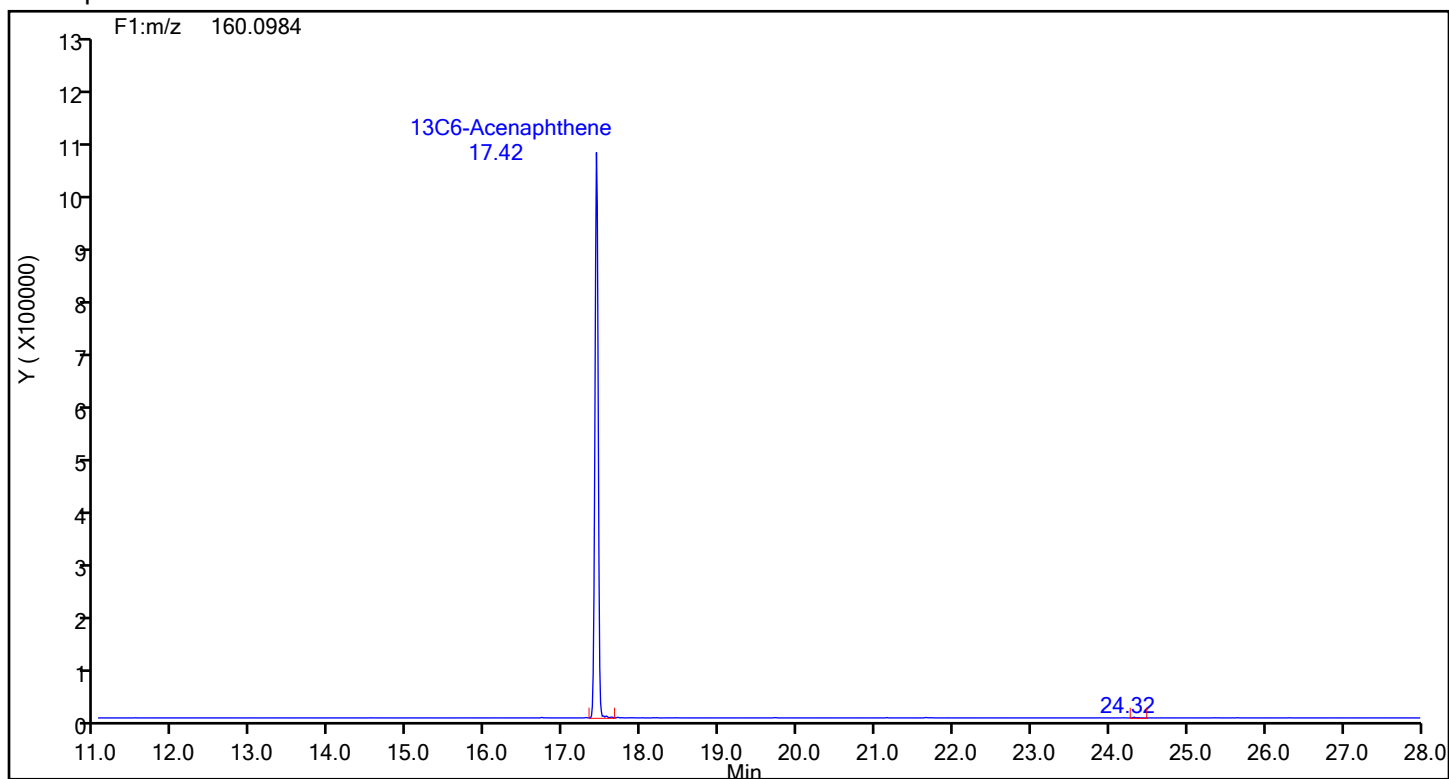
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## Acenaphthene



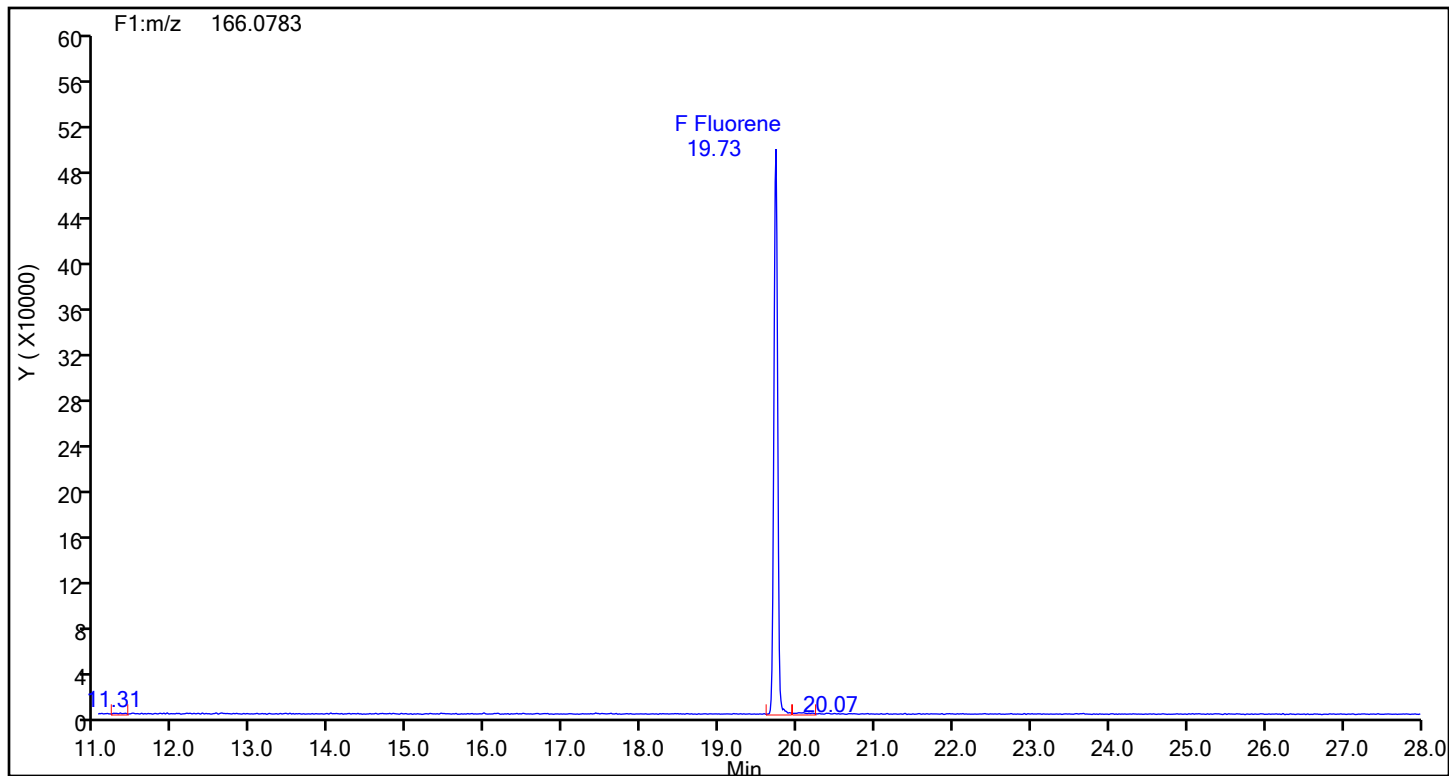
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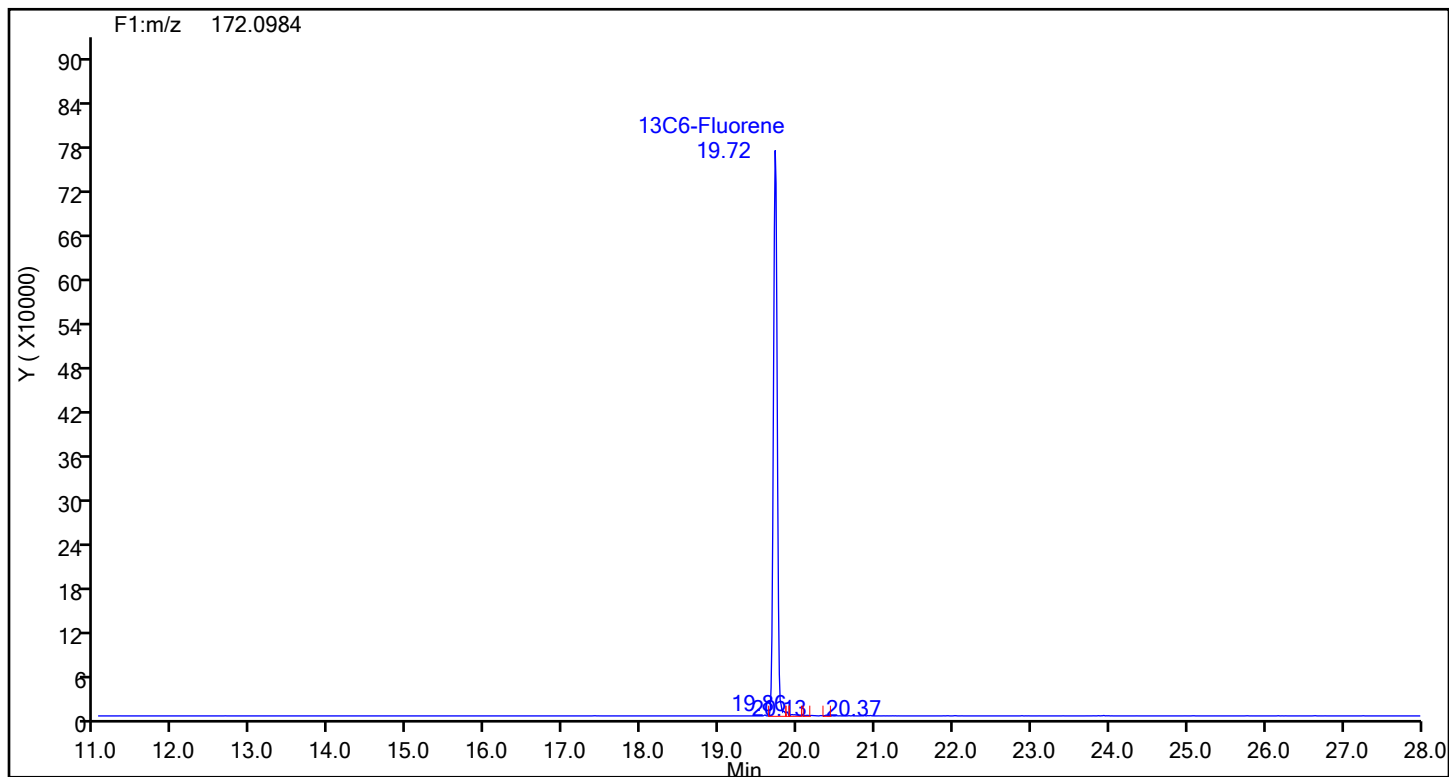
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene

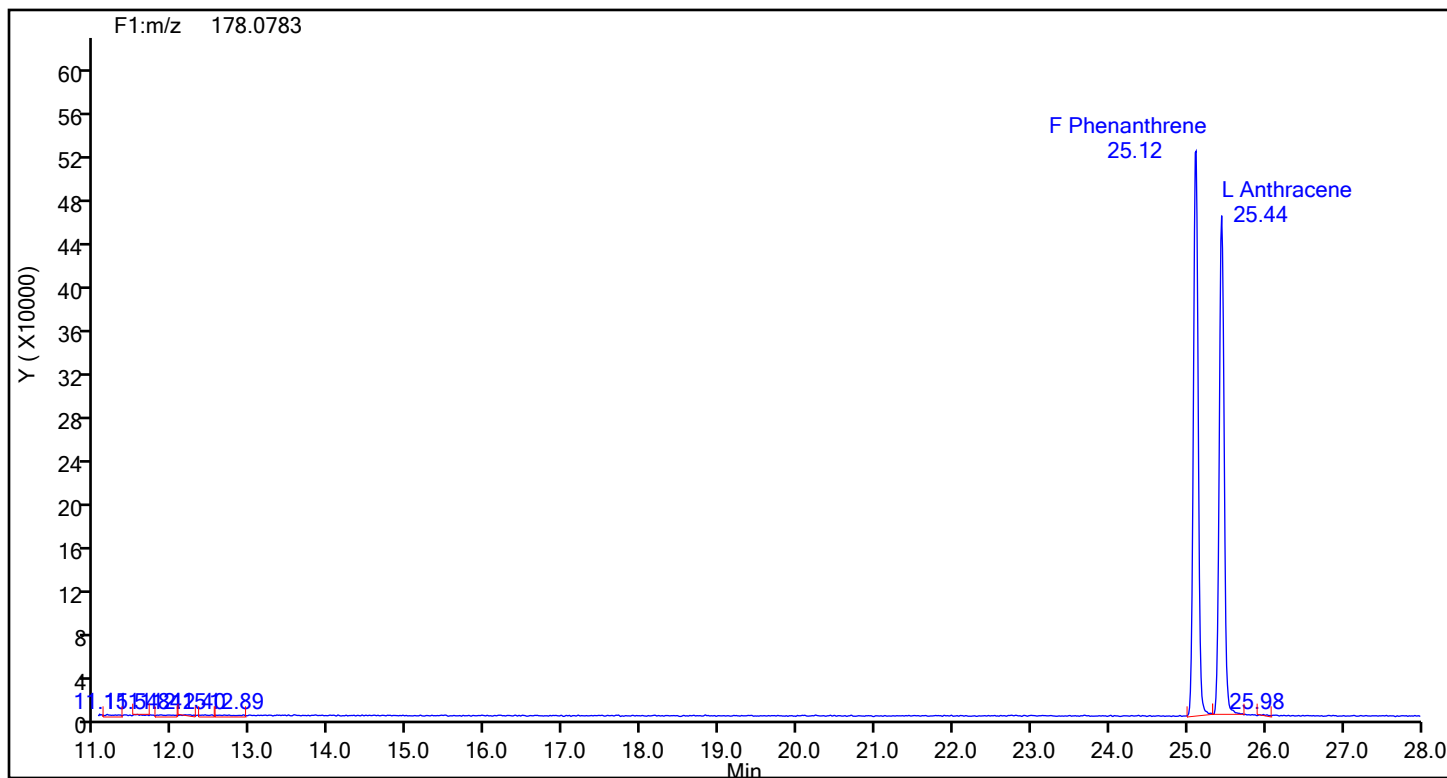


## Fluorene Standards

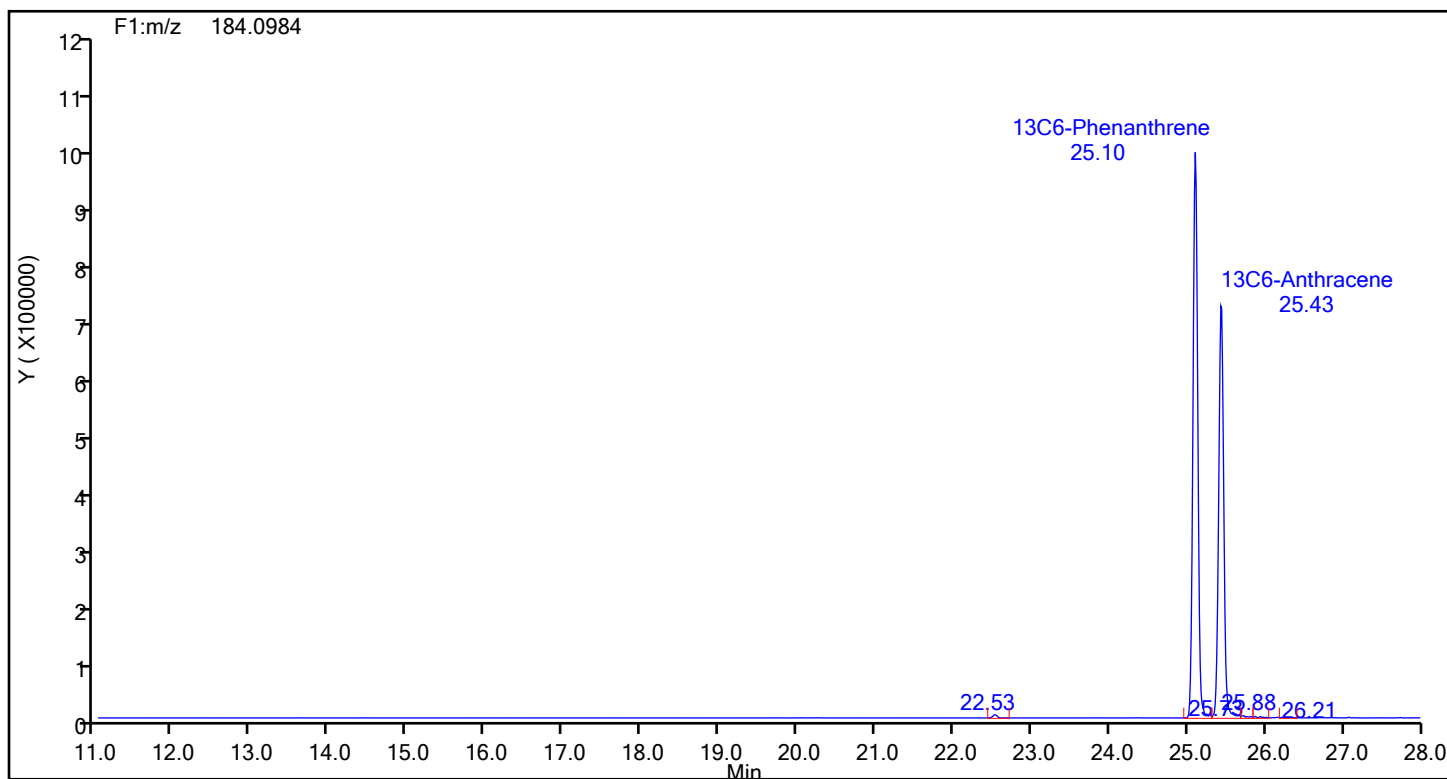


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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene



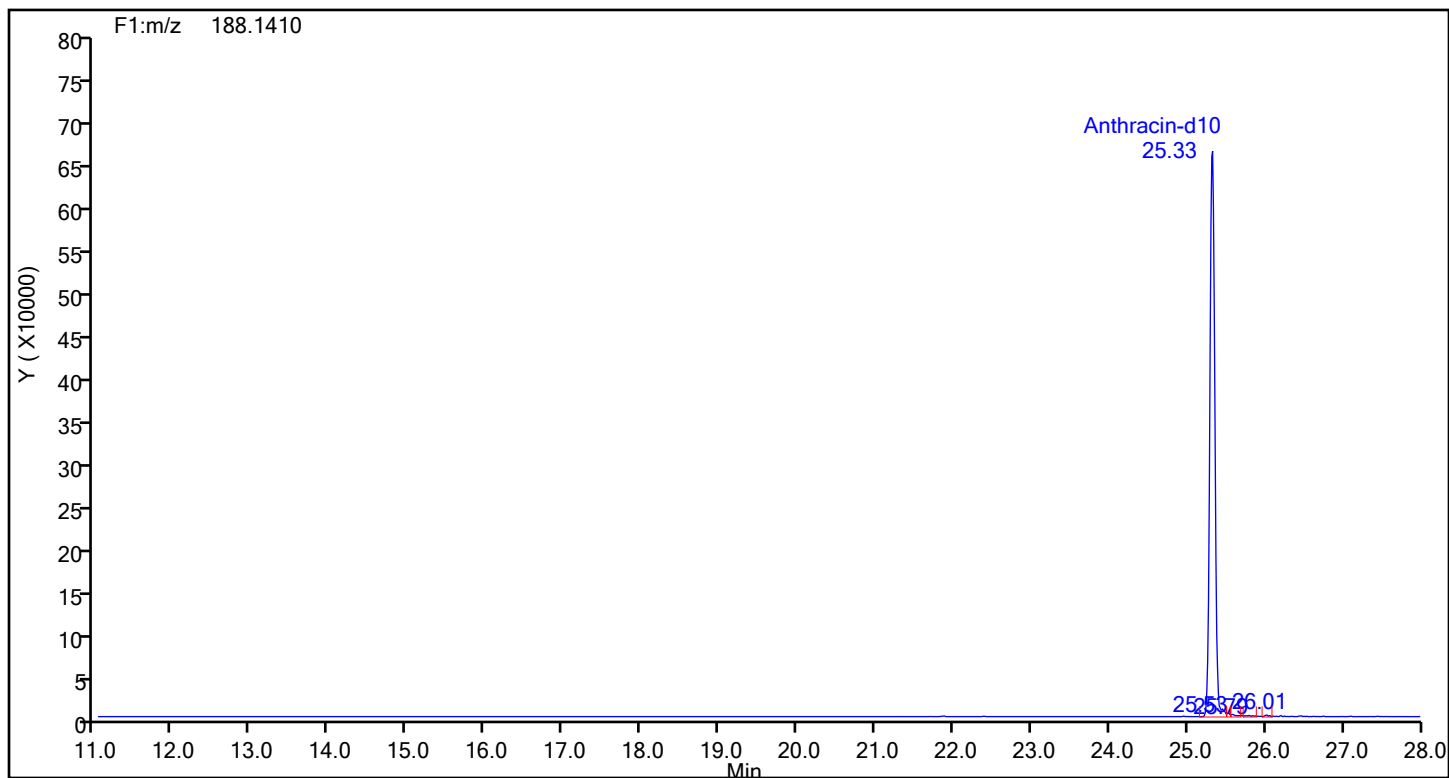
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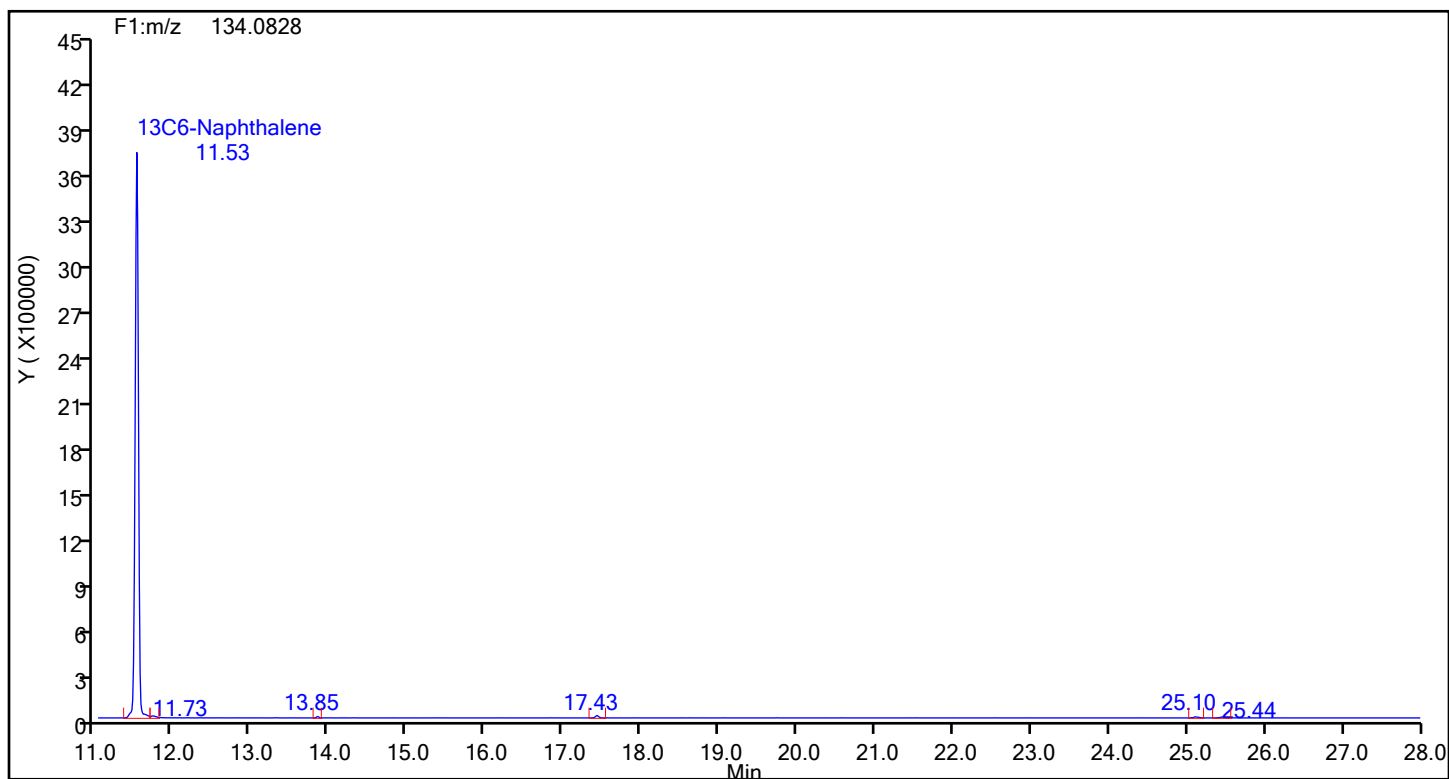


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Client ID:  
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Anthracin-d10

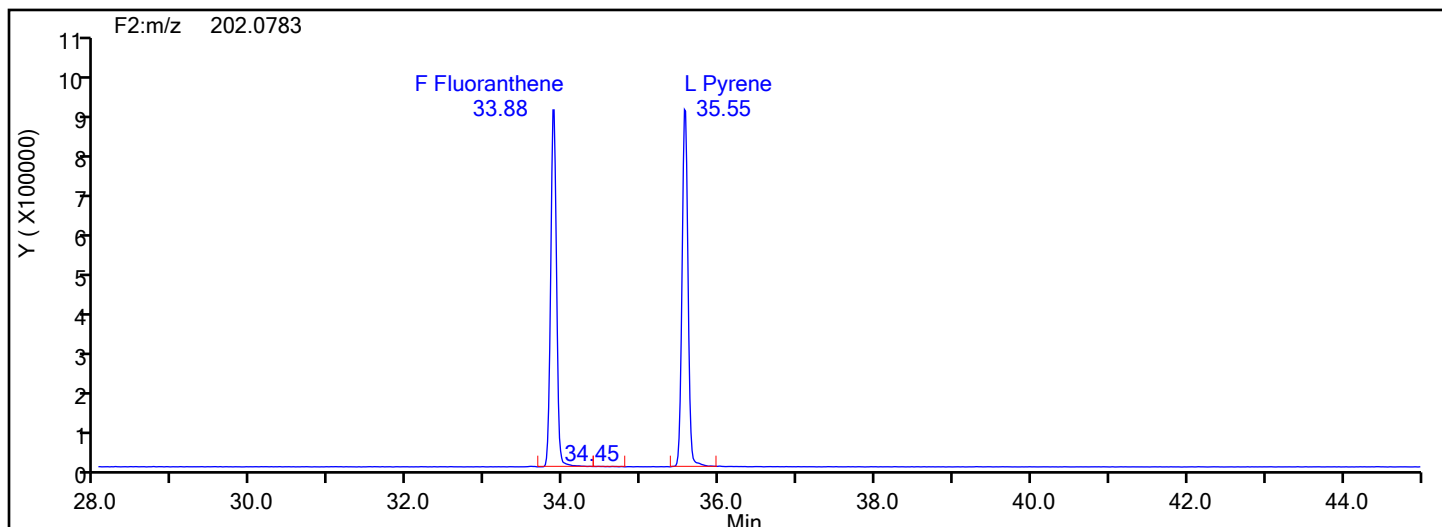


## Anthracin-d10 Standards

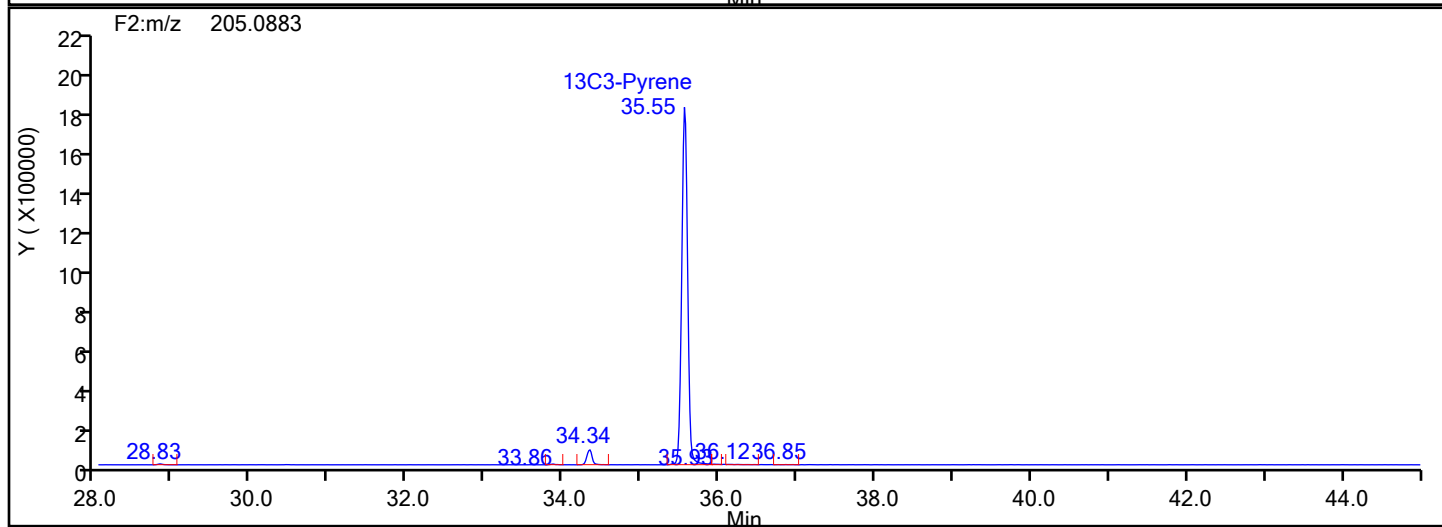
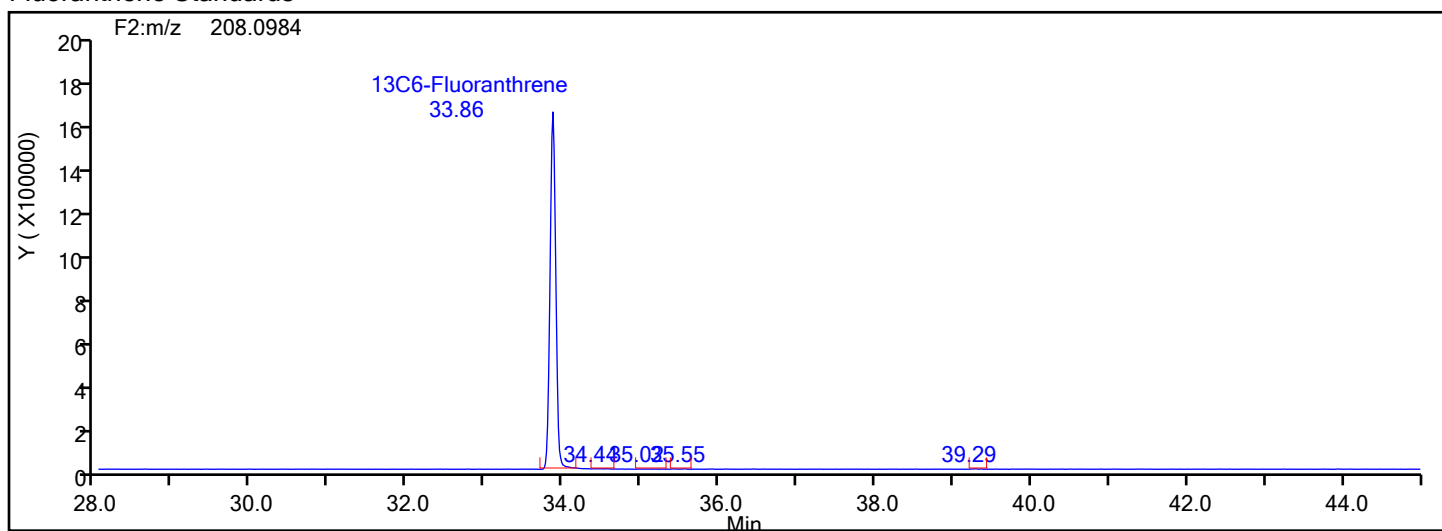


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Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



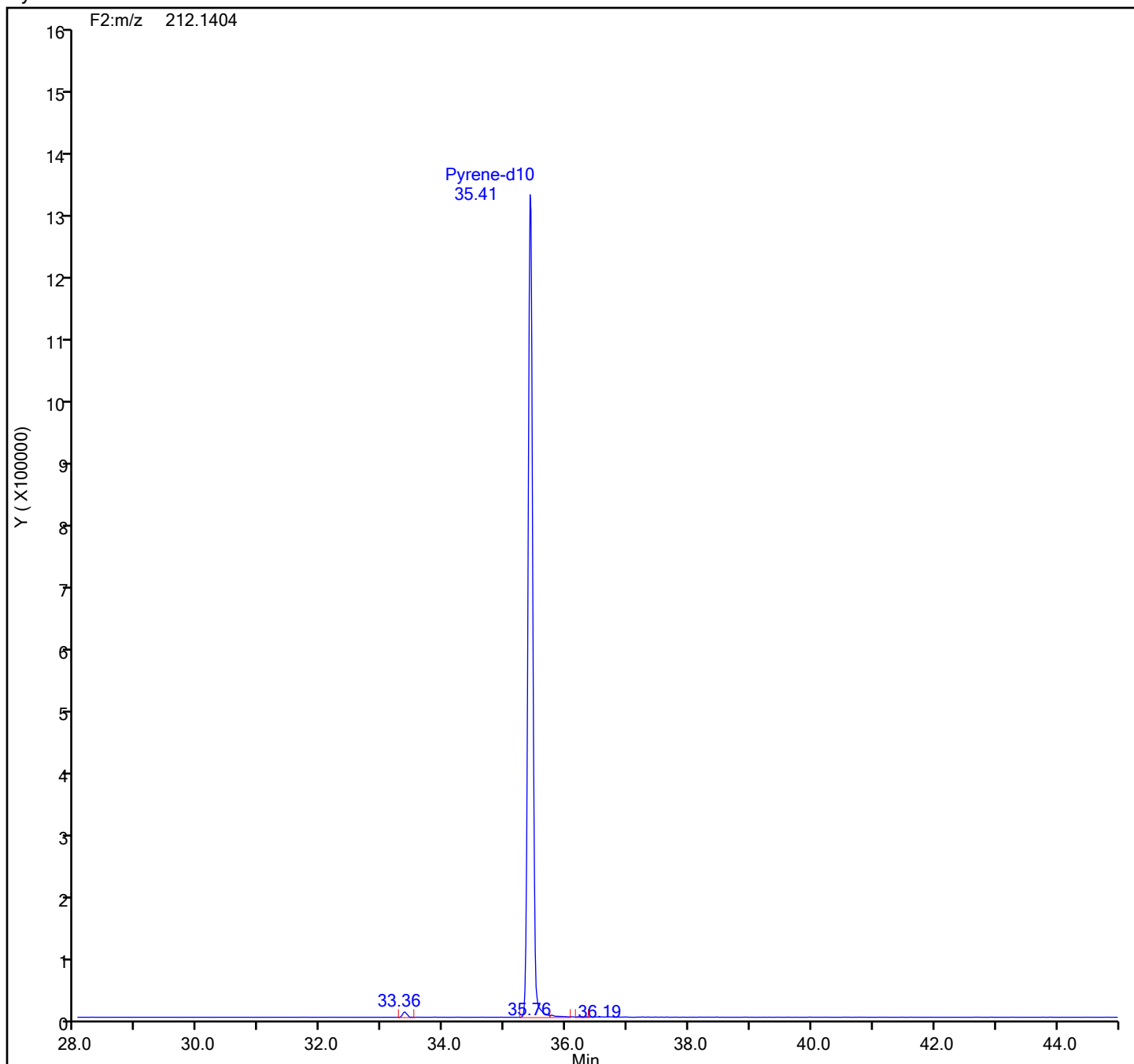
## Fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

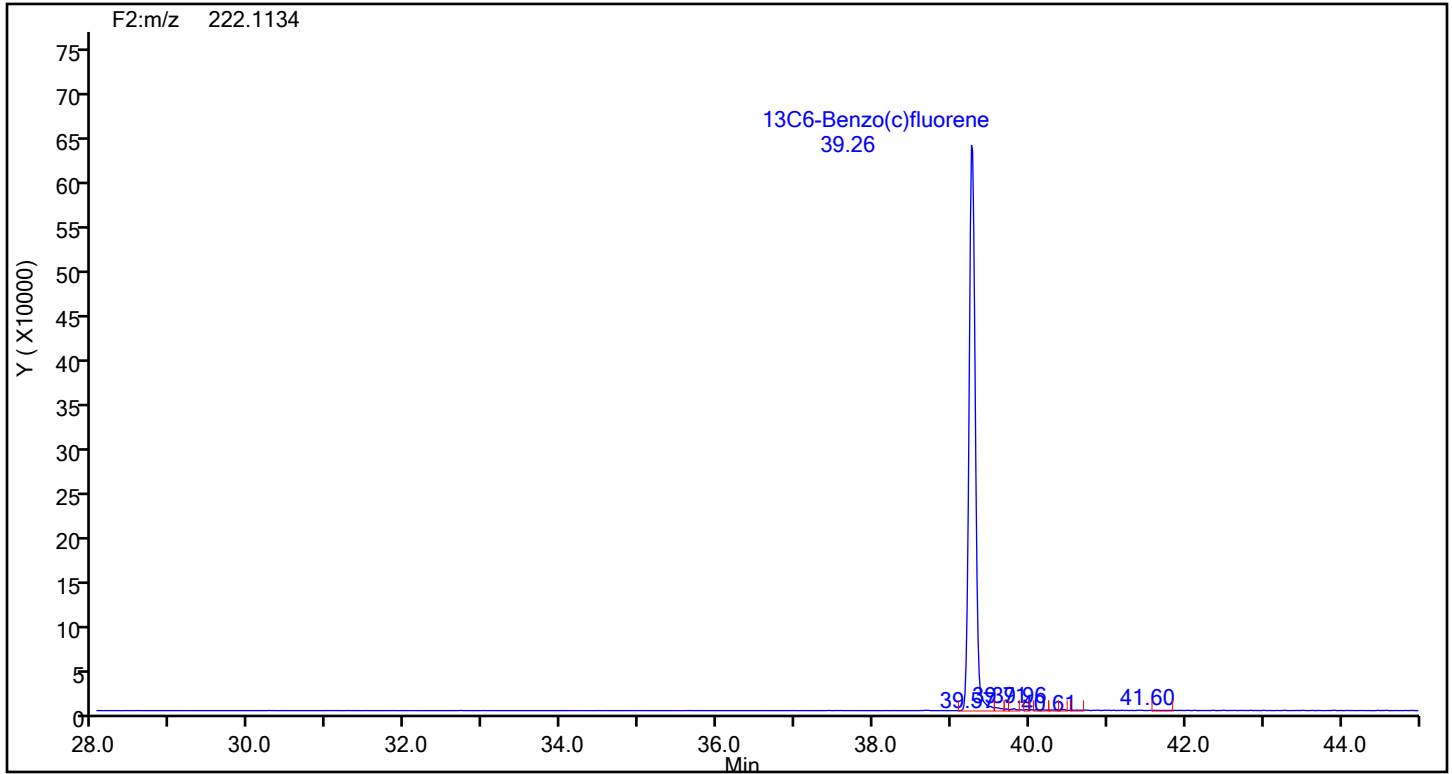
## Pyrene-d10 Standards



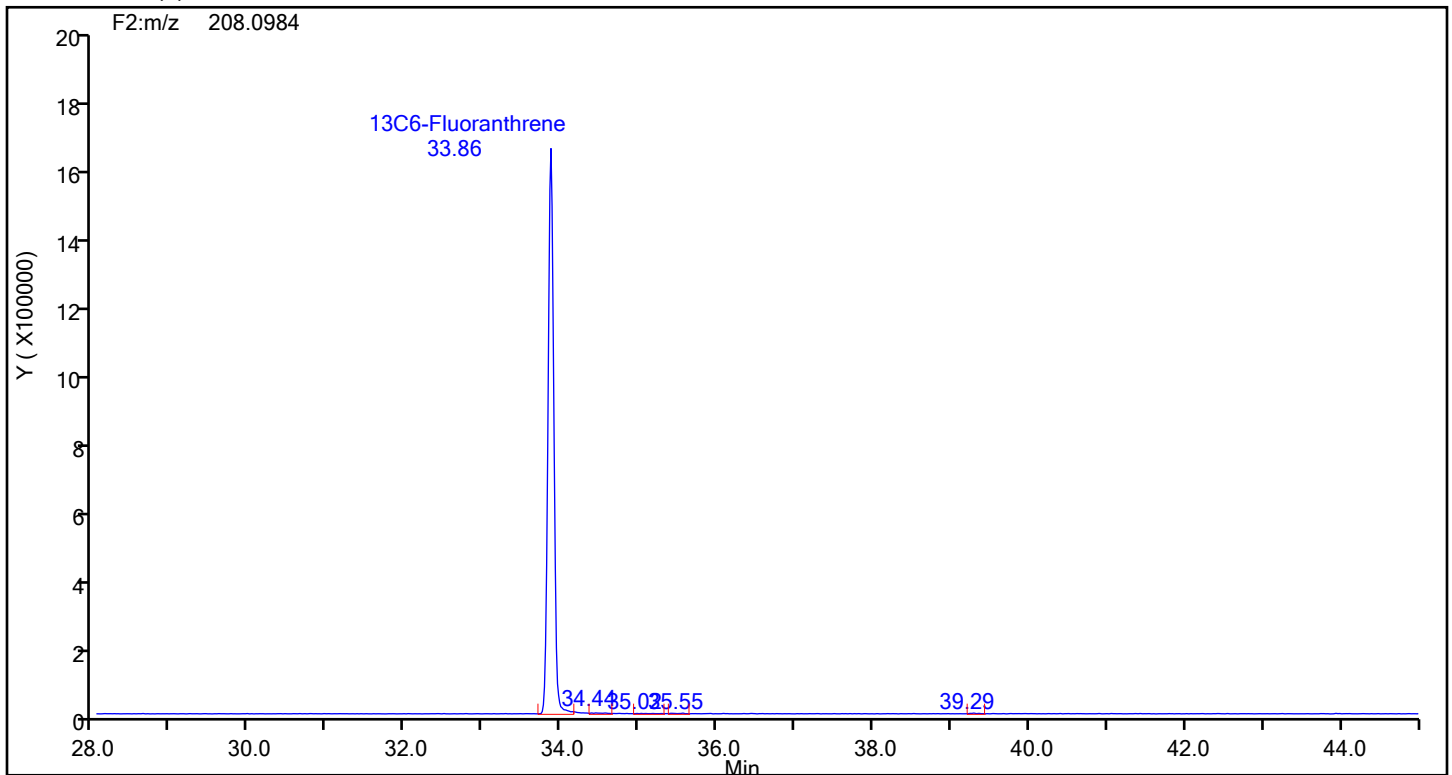
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



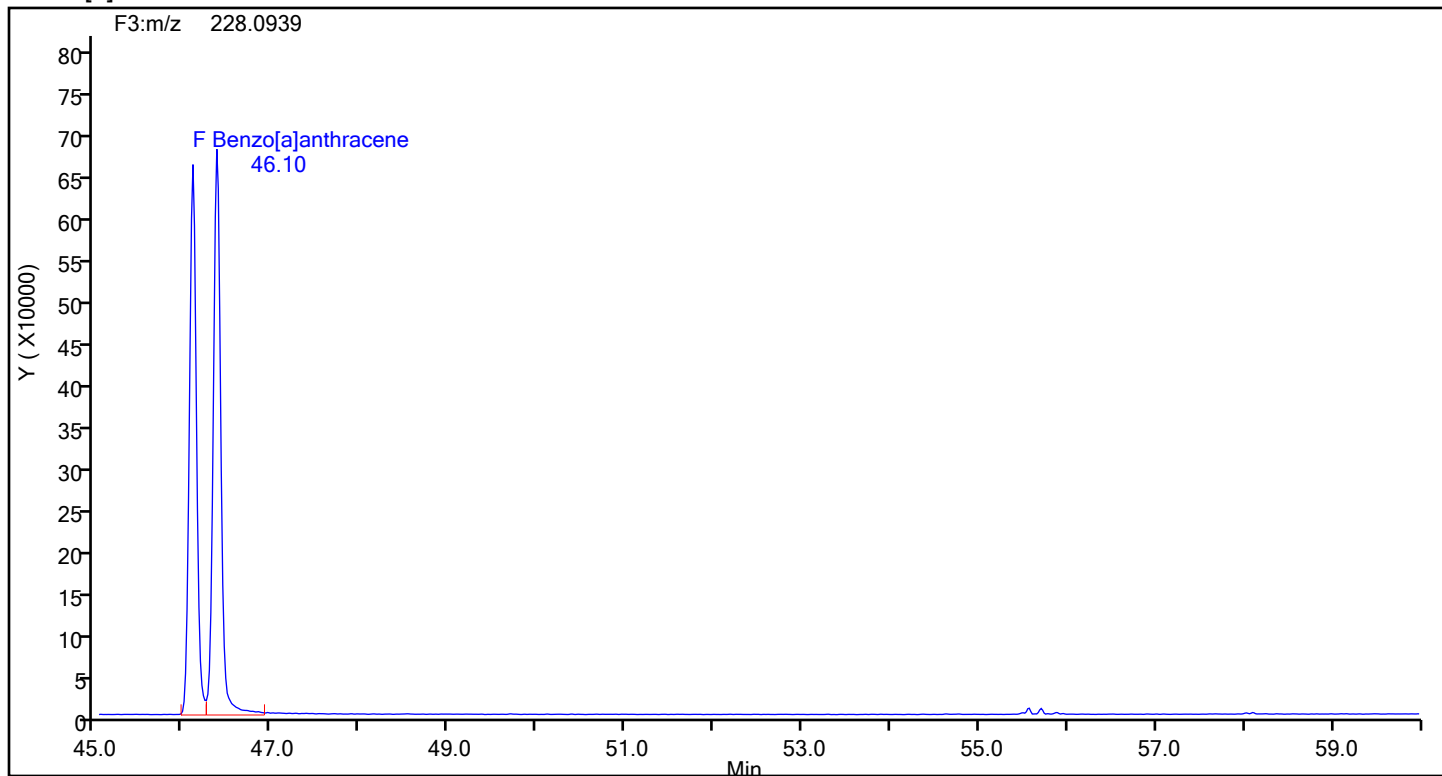
## 13C6-Benzo(c)fluorene Standards



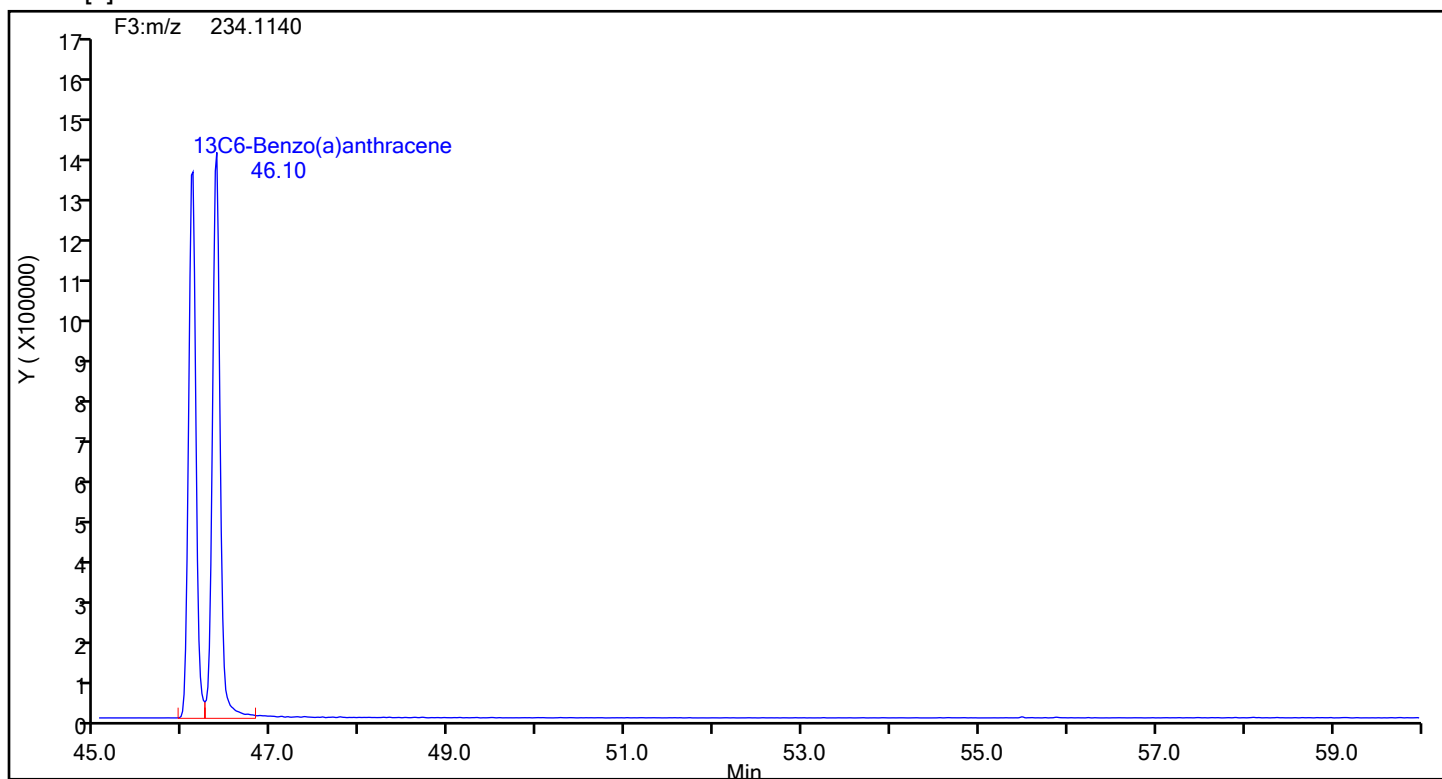
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



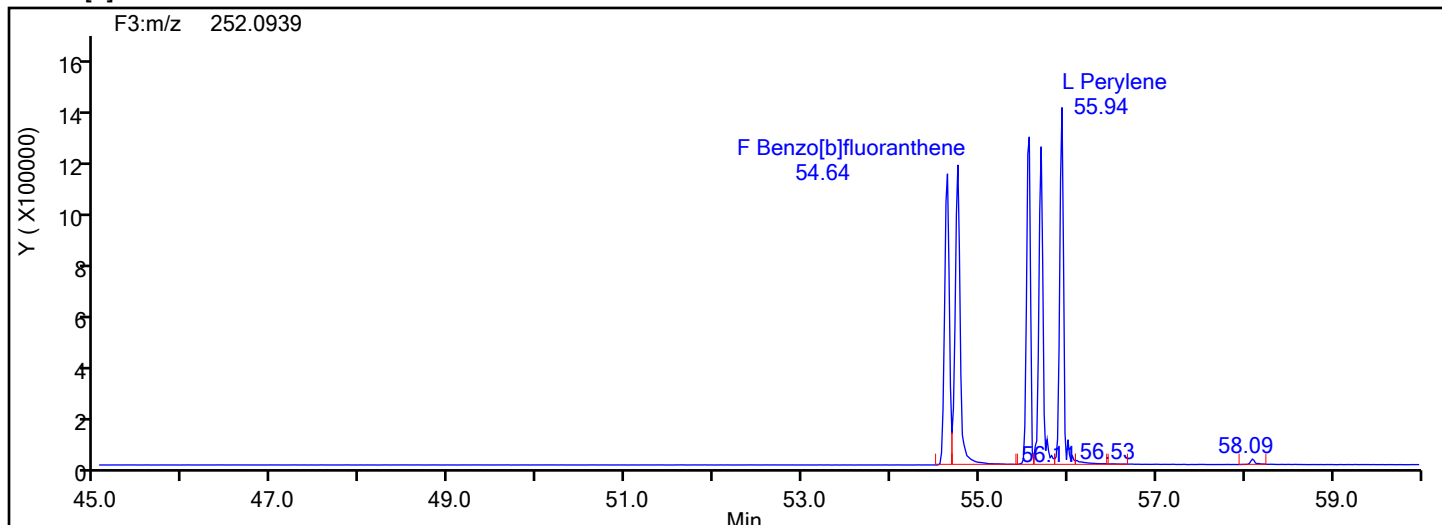
## Benzo[a]anthracene Standards



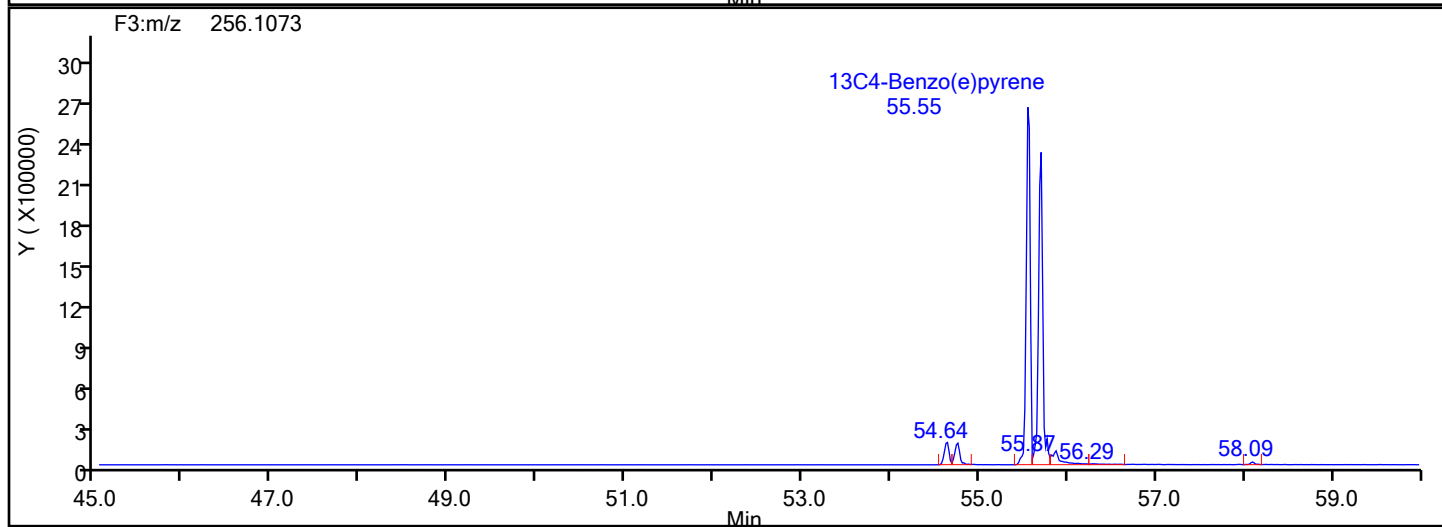
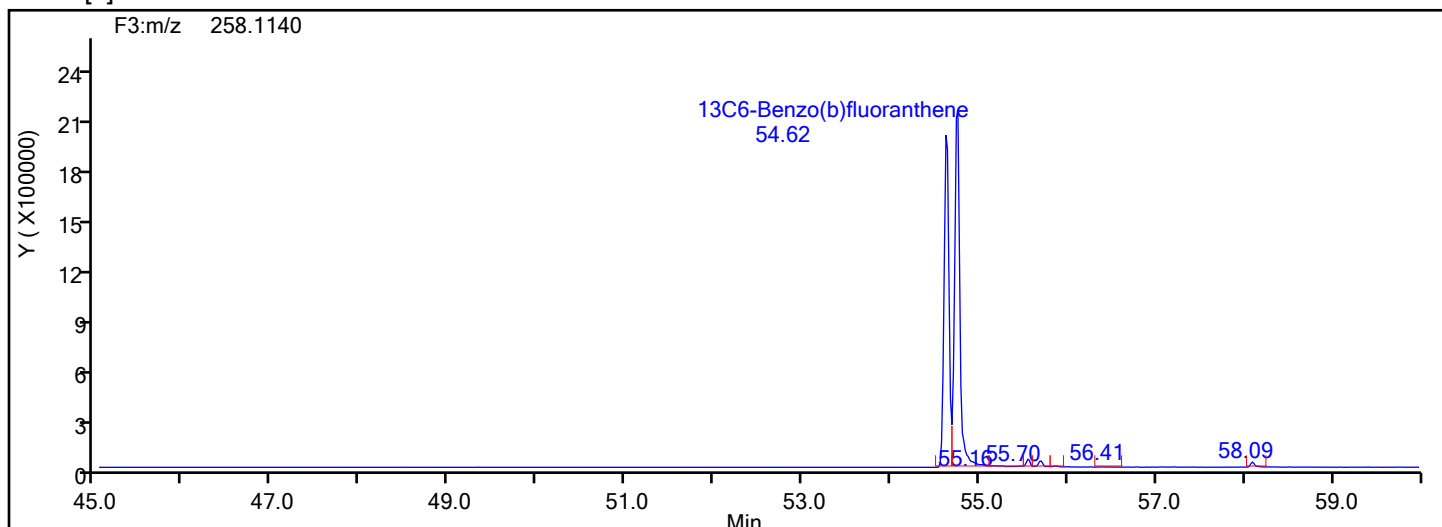
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAL ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



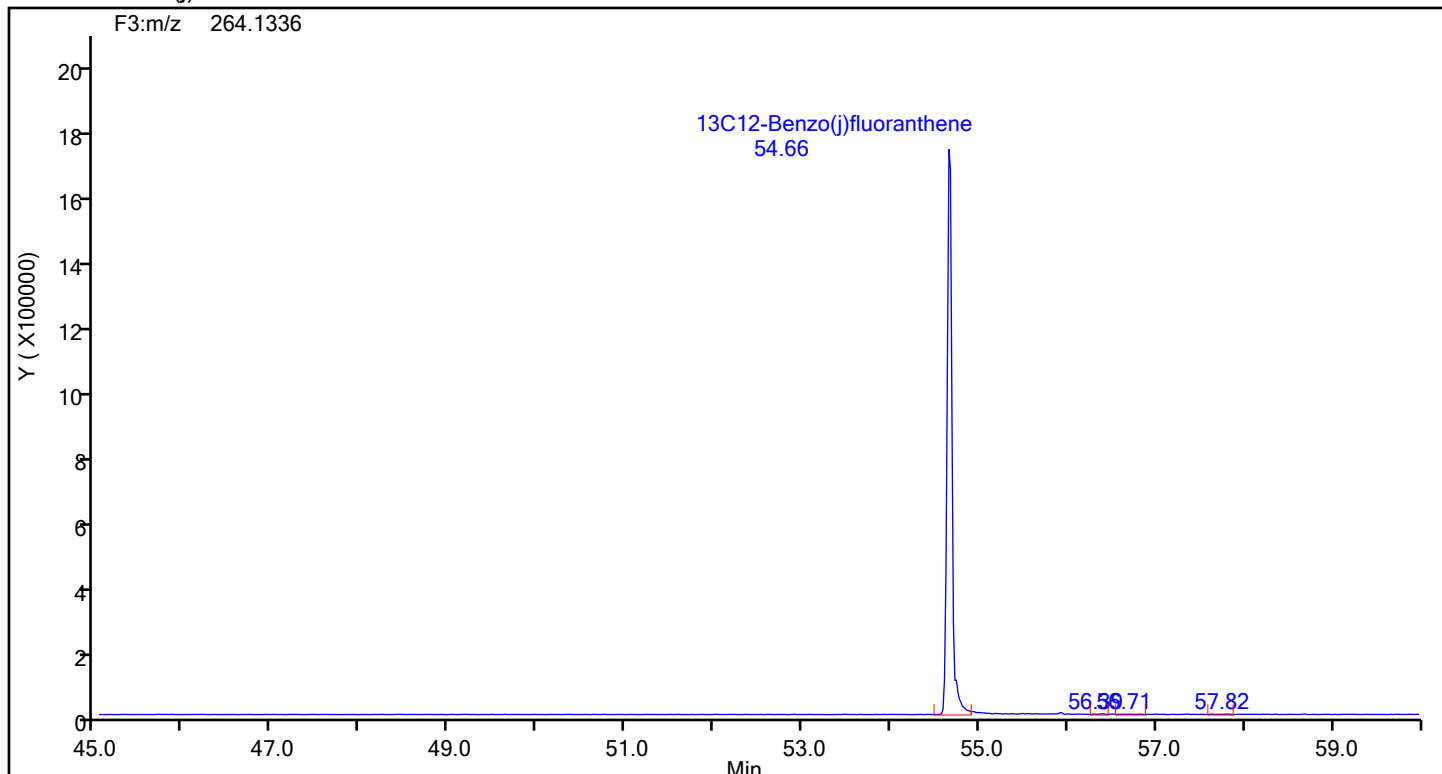
## Benzo[b]fluoranthene Standards



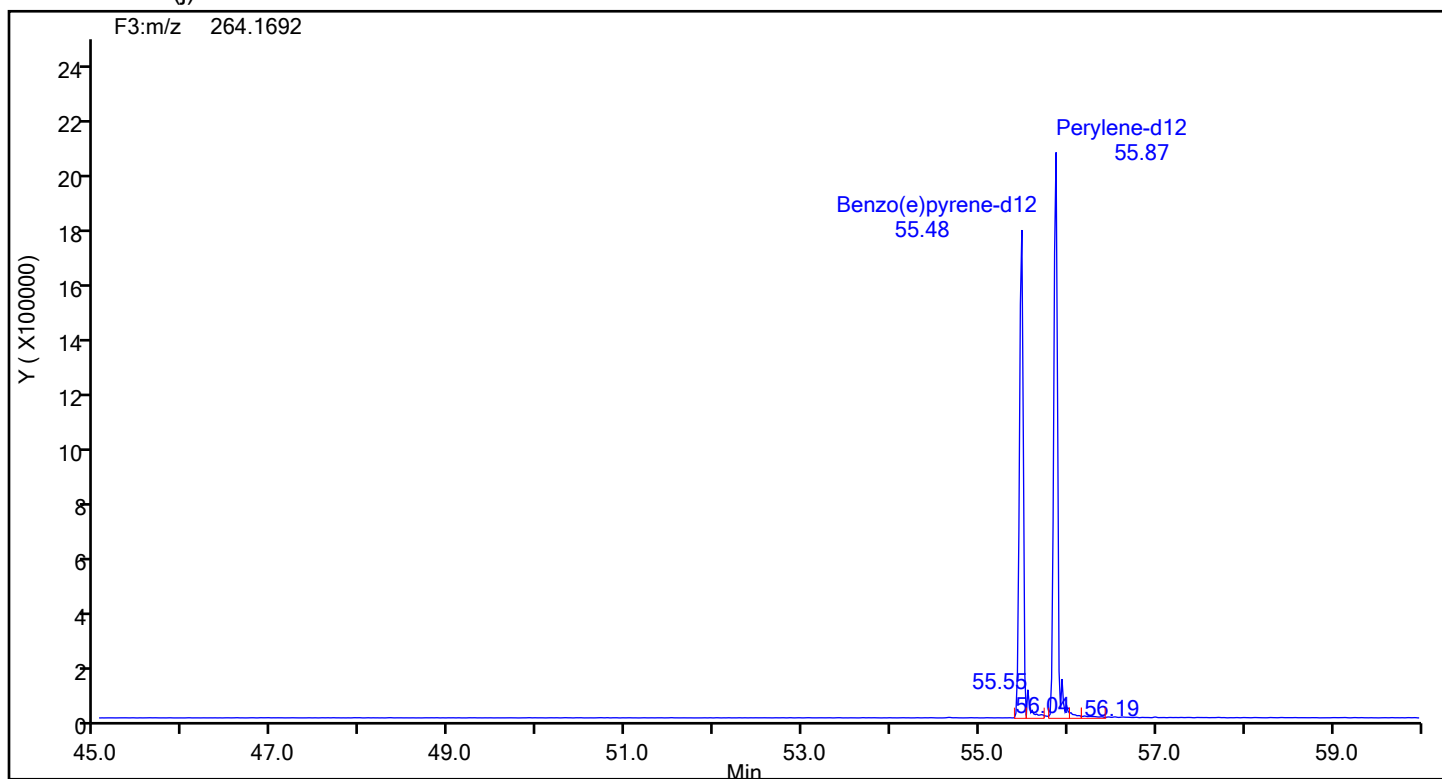
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



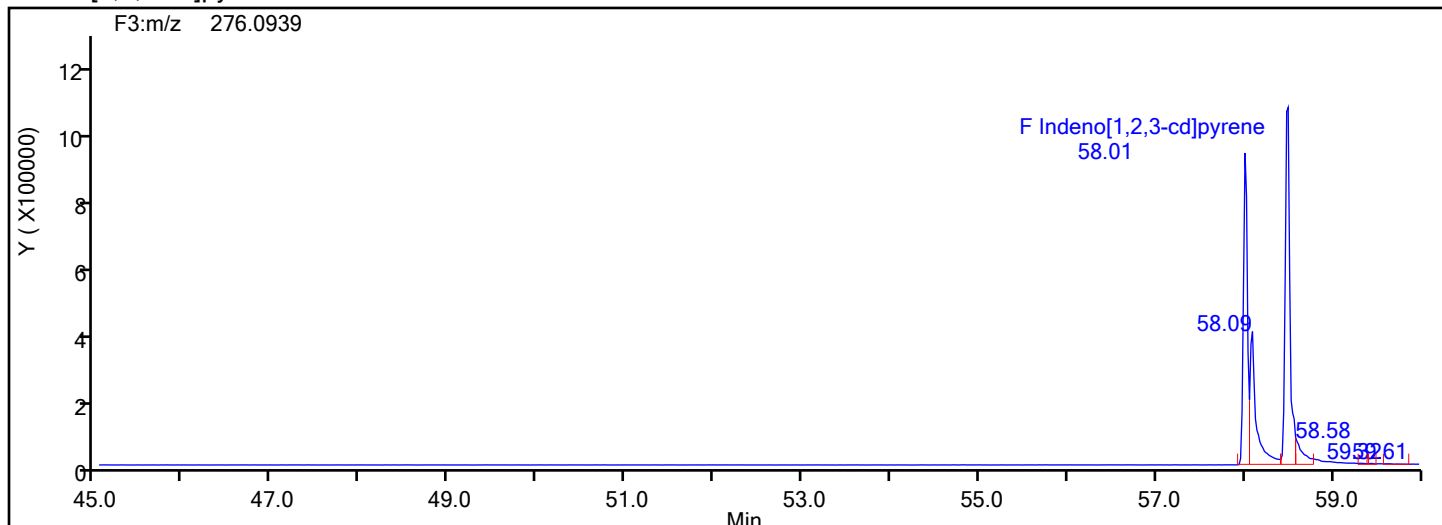
## 13C12-Benzo(j)fluoranthene Standards



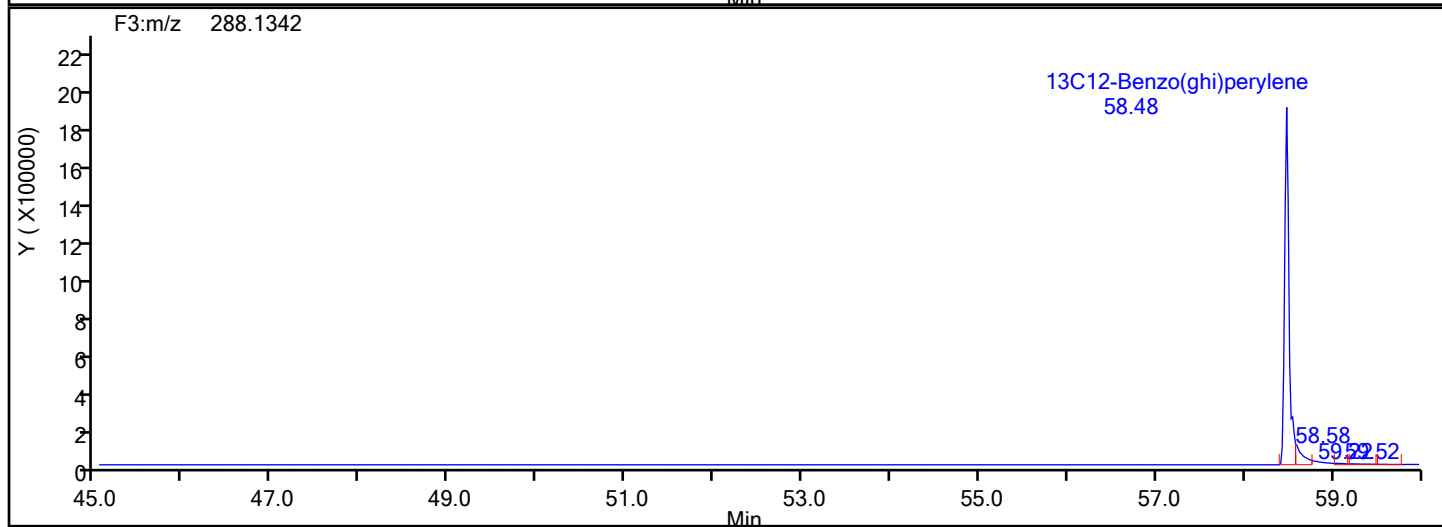
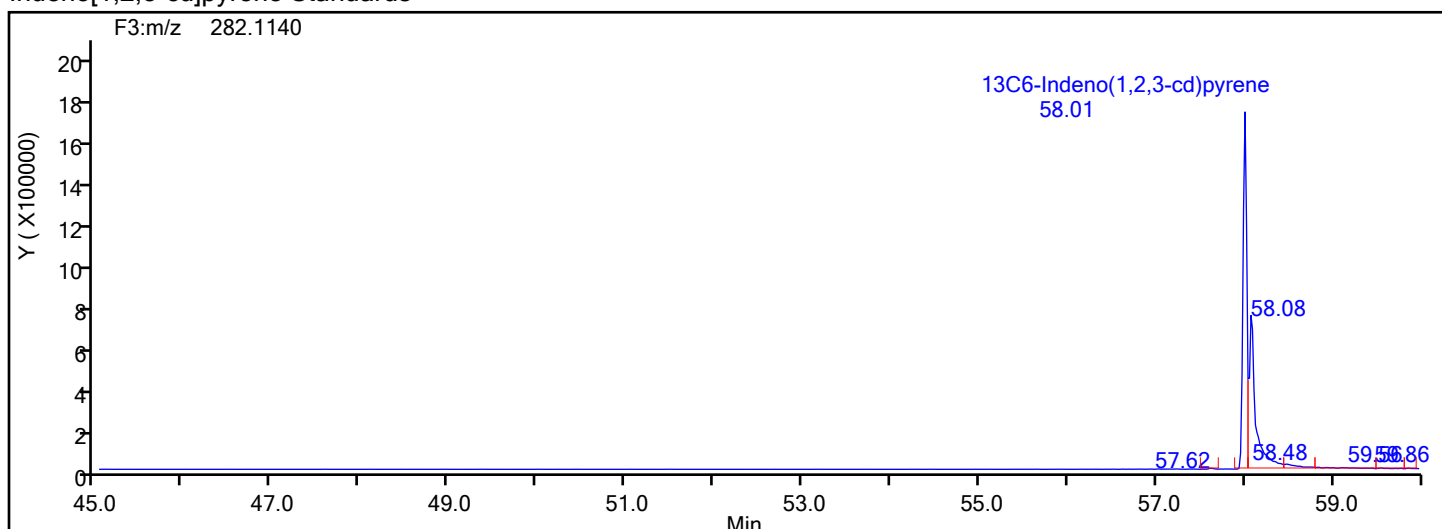
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards





## Eurofins Knoxville

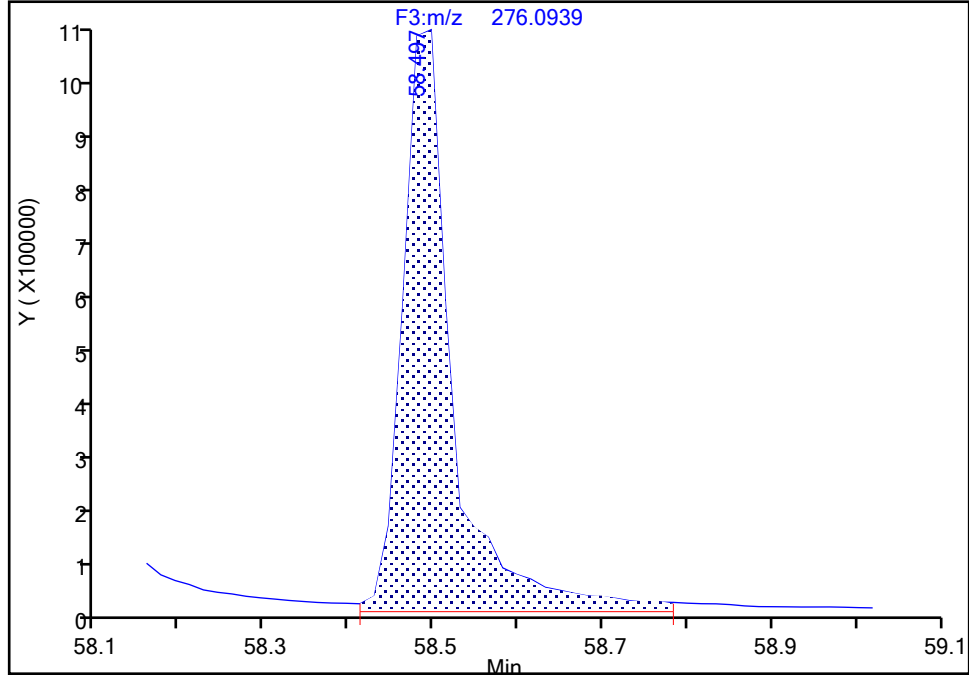
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Instrument ID: D3PAH  
Lims ID: IC L5  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

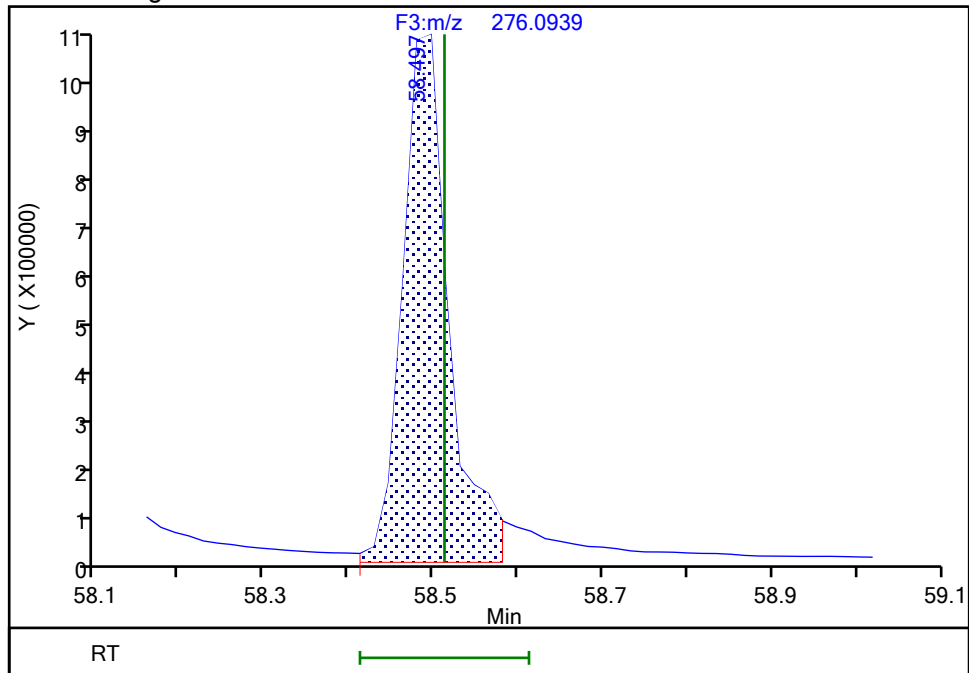
RT: 58.50  
Area: 4298581  
Amount: 50.251920  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.50  
Area: 3911770  
Amount: 46.506324  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:45 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d

Injection Date: 19-Jun-2024 20:51:00

Instrument ID: D3PAH

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: EPA\_23\_PAH

Limit Group:

HR - HRP AH ICAL

Column: Restek-5Sil MS 25um ( 0.25 mm)

Detector

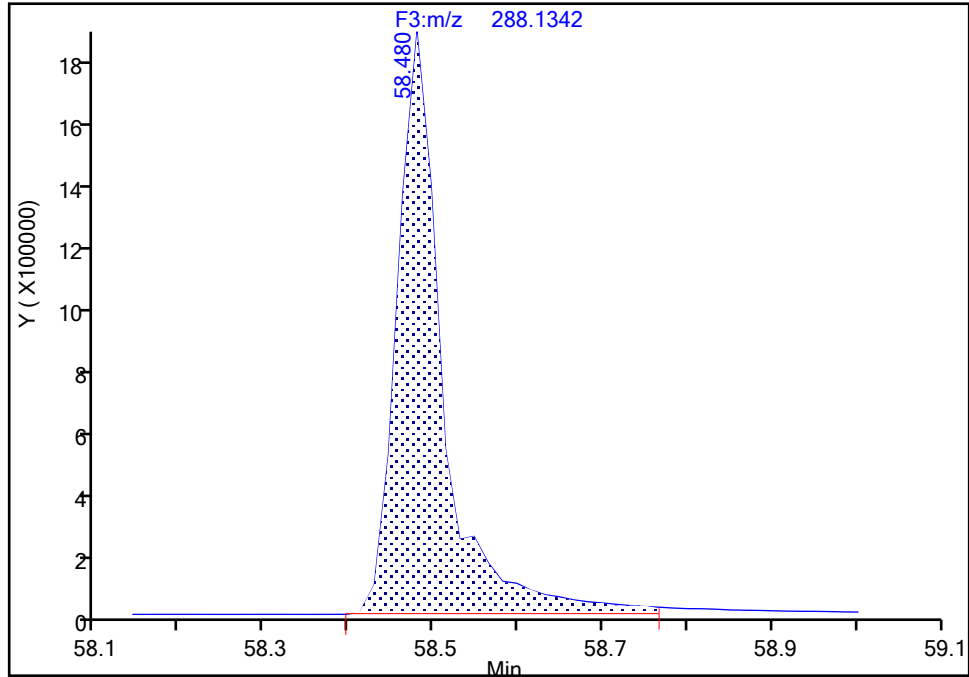
F3(44.04 :59.98 )

**13C12-Benzo(ghi)perylene, CAS: 350820-11-0**

Signal: 1

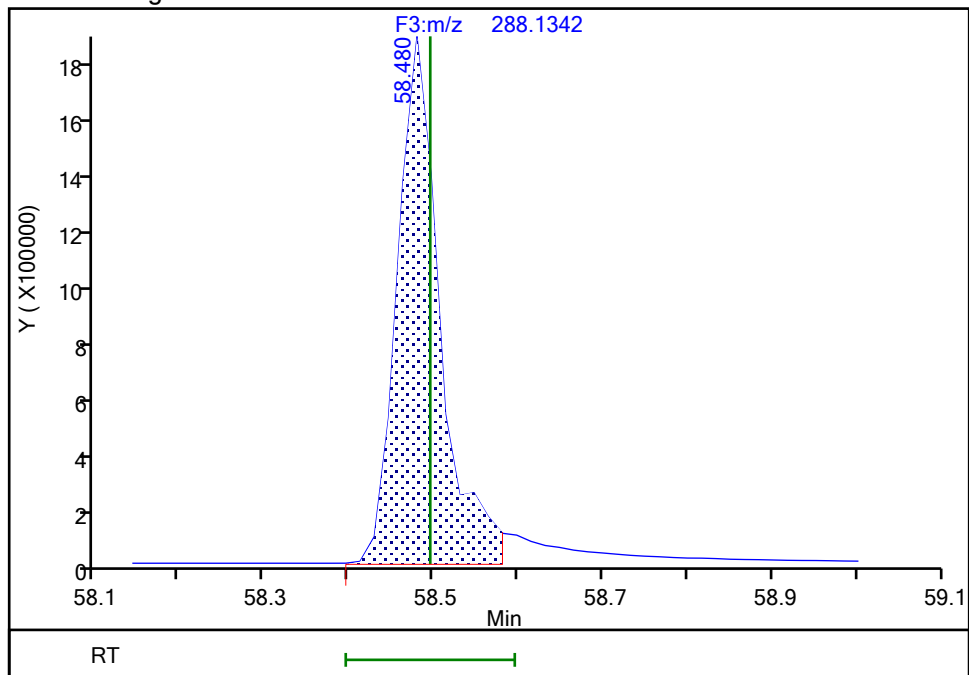
RT: 58.48  
Area: 7074332  
Amount: 100.4728  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.48  
Area: 6552075  
Amount: 96.635821  
Amount Units: pg/ul

## Manual Integration Results



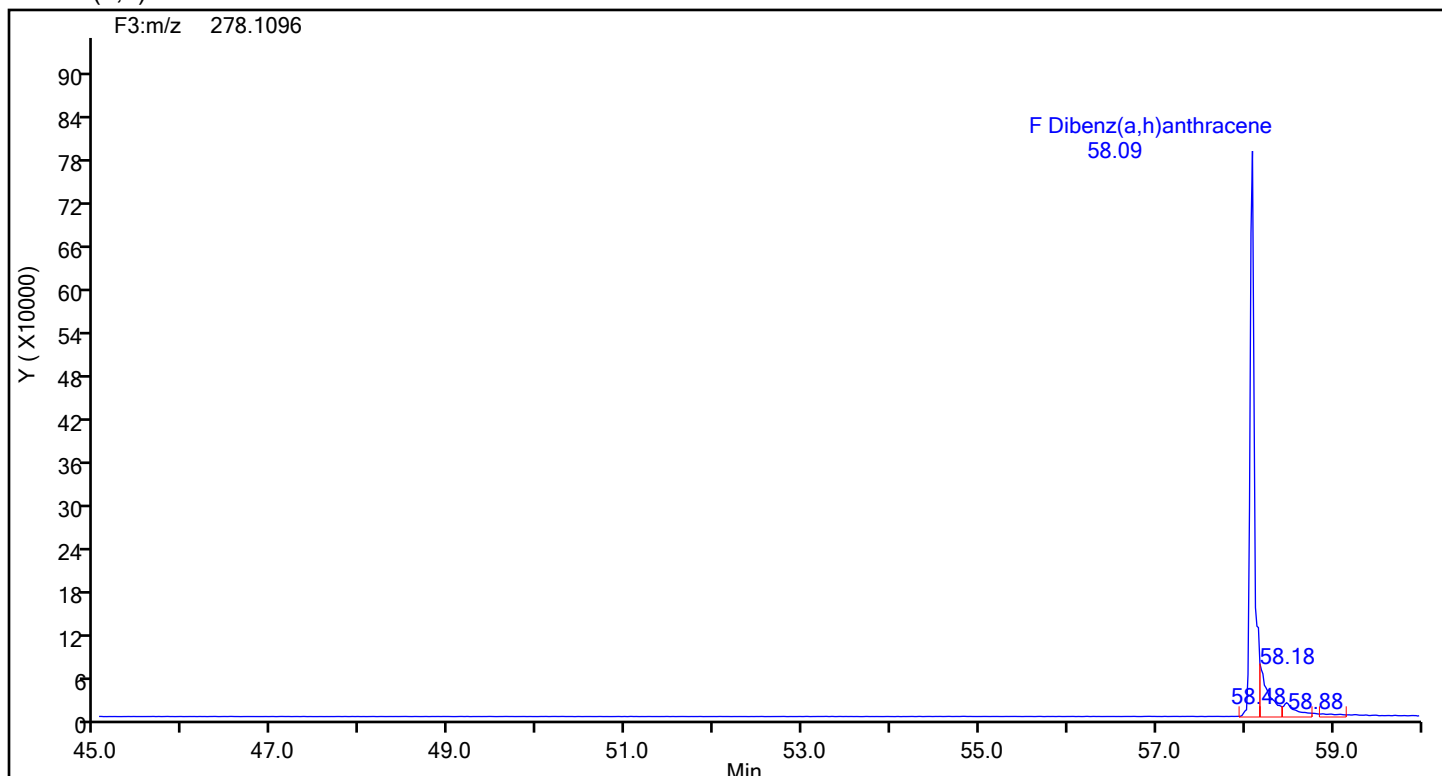
Reviewer: F9EE, 20-Jun-2024 09:36:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

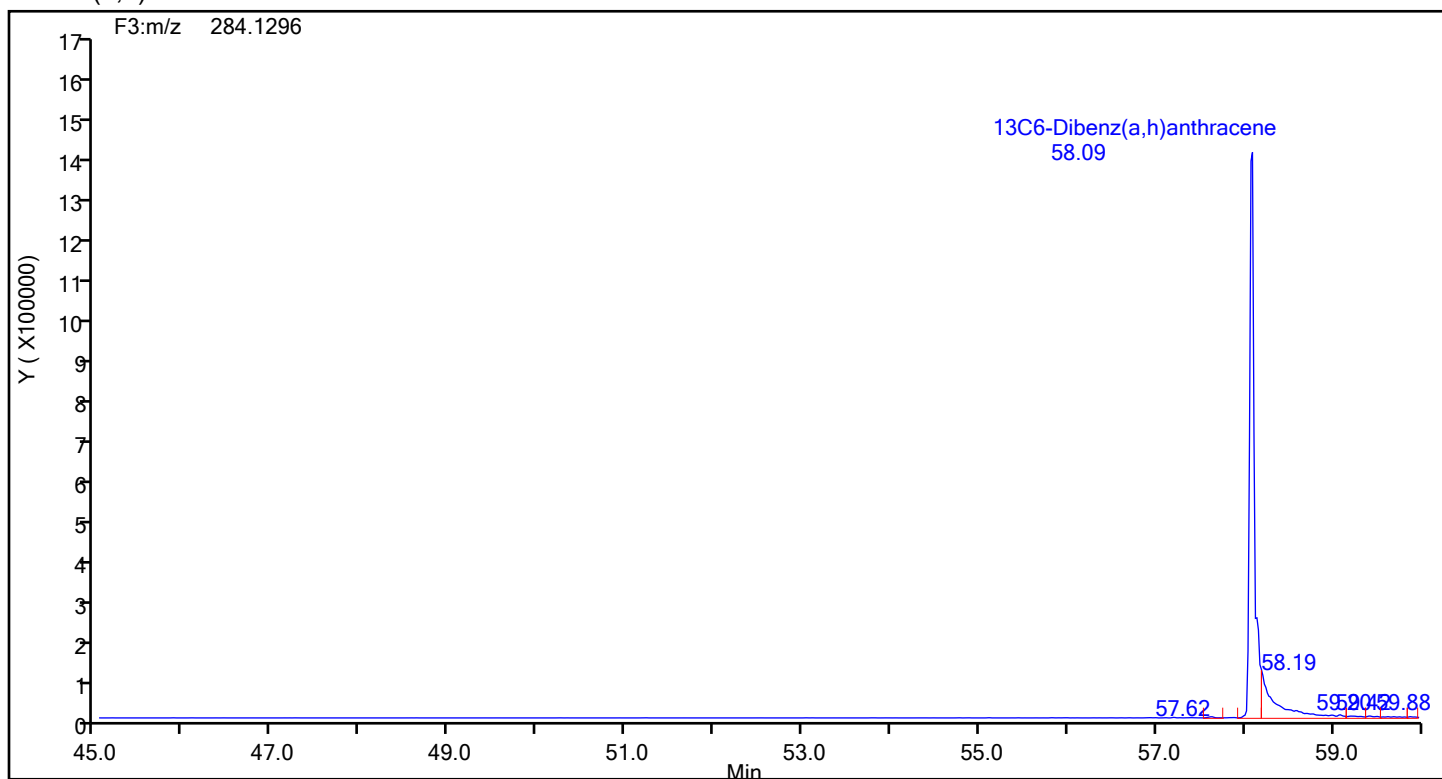
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 5  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

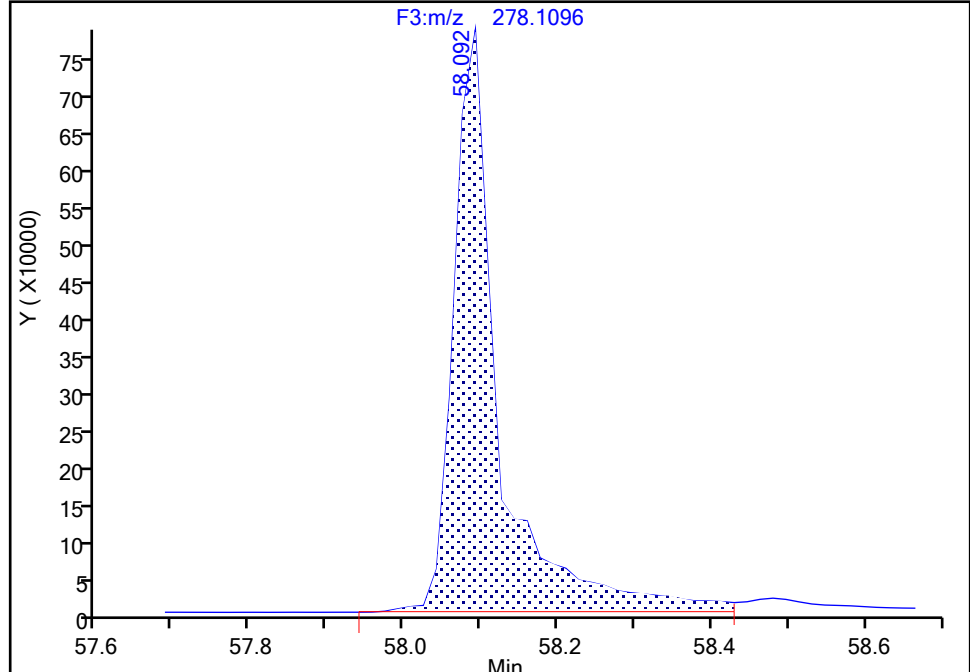
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Instrument ID: D3PAH  
Lims ID: IC L5  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

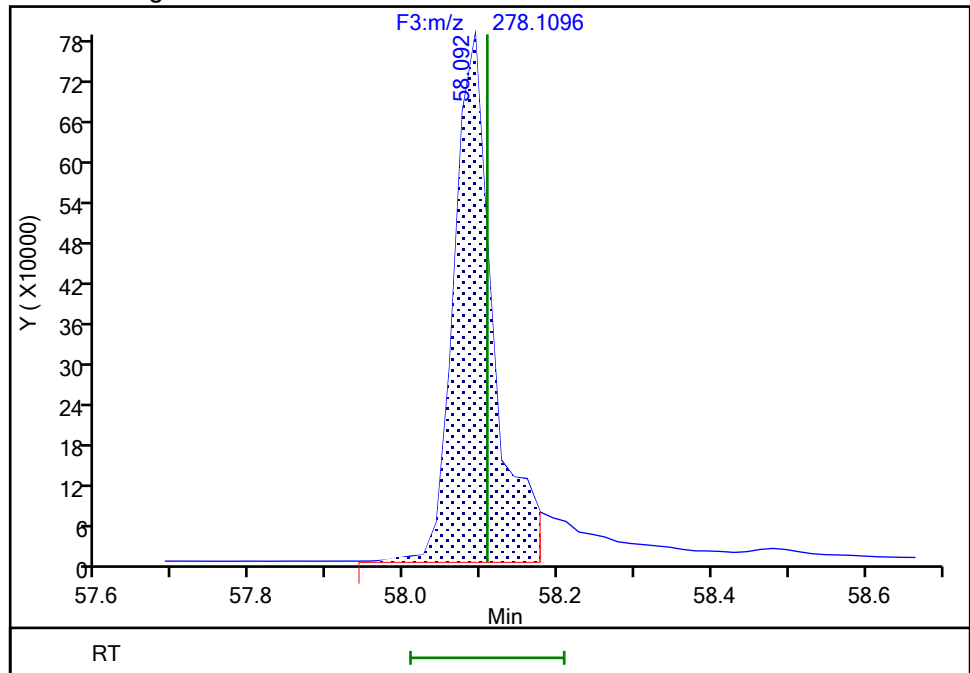
RT: 58.09  
Area: 3230801  
Amount: 52.313774  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.09  
Area: 2789079  
Amount: 45.677161  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

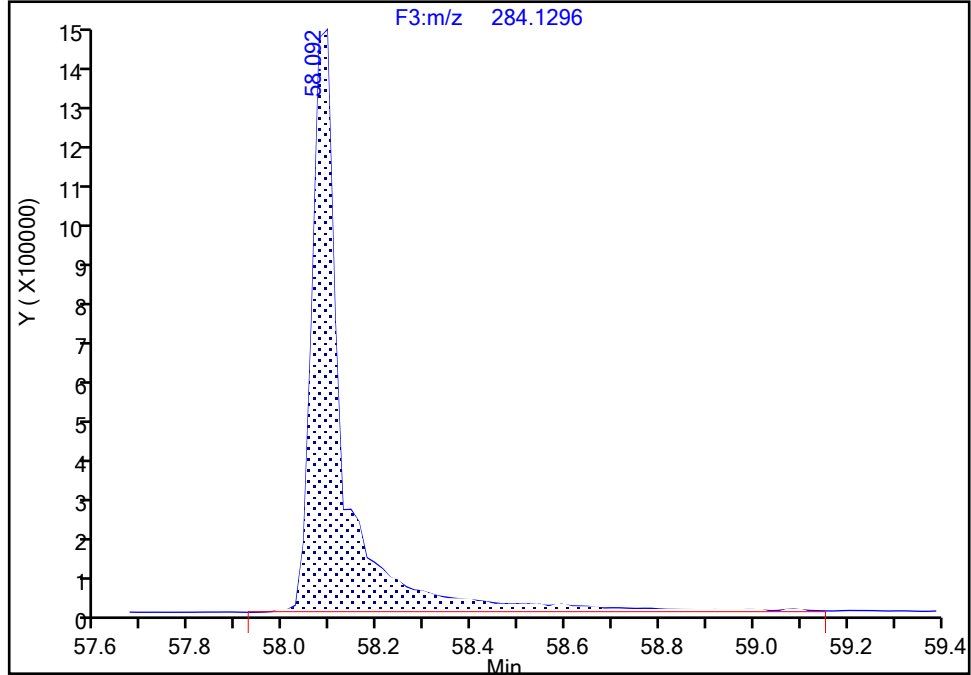
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic5.d  
Injection Date: 19-Jun-2024 20:51:00 Instrument ID: D3PAH  
Lims ID: IC L5  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Dibenz(a,h)anthracene, CAS: STL03360**

Signal: 1

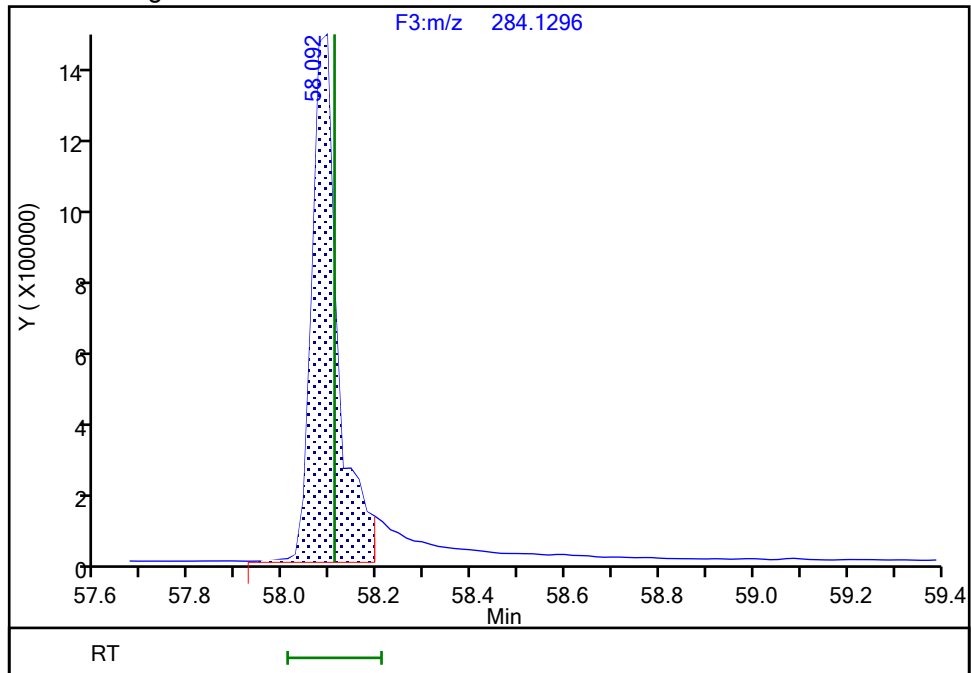
RT: 58.09  
Area: 6571225  
Amount: 107.3286  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.09  
Area: 5397040  
Amount: 96.165507  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:36:25 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d  
Lims ID: IC L6  
Client ID:  
Sample Type: IC Calib Level: 6  
Inject. Date: 19-Jun-2024 21:56:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-006  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 20-Jun-2024 09:51:50 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:37:45

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	10869499		3.3746	87.3	87.3	0.005990	0.005990	87.34	
Naphthalene	11:33	11077976		1.2893	79.1	79.1	0.0246	0.0246	98.81	
D 13C6-2-Methylnaphthalene	13:52	5726757		1.6031	96.9	96.9	0.000714	0.000714	96.86	
2-Methylnaphthalene	13:52	5812992		1.2786	79.4	79.4	0.0188	0.0188	99.24	
D 13C6-Acenaphthylene	16:44	6099396		1.6520	100.1	100.1	0.000554	0.000554	100	
Acenaphthylene	16:45	6459116		2.3661	75.8	75.8	0.0194	0.0194	94.79	
* Acenaphthene-d10	17:19	3688074		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3599722		0.9792	99.7	99.7	0.001168	0.001168	99.68	
Acenaphthene	17:27	3643698		1.2697	79.7	79.7	0.0244	0.0244	99.65	
D 13C6-Fluorene	19:44	3234715		0.8898	98.6	98.6	0.000429	0.000429	98.57	
Fluorene	19:44	3186786		1.2532	78.6	78.6	0.0301	0.0301	98.27	
D 13C6-Phenanthrene	25:07	4194540		0.5724	94.8	94.8	0.004224	0.004224	94.77	
Phenanthrene	25:07	3681835		1.1044	79.5	79.5	0.0392	0.0392	99.35	
\$ Anthracin-d10	25:20	3216411		0.4257	97.7	97.7	0.002434	0.002434	97.72	
D 13C6-Anthracene	25:27	3339808		0.4523	95.5	95.5	0.005346	0.005346	95.49	
Anthracene	25:27	3587223		1.3586	79.1	79.1	0.0421	0.0421	98.82	
D 13C6-Fluoranthrene	33:52	9143194		1.1994	98.6	98.6	0.0194	0.0194	98.60	
Fluoranthrene	33:53	8083123		1.1513	76.8	76.8	0.0136	0.0136	95.98	
* Pyrene-d10	35:25	7731706		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	10295818		1.3512	98.6	98.6	0.0129	0.0129	98.55	
Pyrene	35:34	8469657		1.0652	77.2	77.2	0.0135	0.0135	96.53	
\$ 13C6-Benzo(c)fluorene	39:17	4139575		0.5136	104.2	104.2	0.002960	0.002960	104	
D 13C6-Benzo(a)anthracene	46:06	8168778		1.5189	92.6	92.6	0.0133	0.0133	92.56	
Benzo[a]anthracene	46:07	6207787		0.9739	78.0	78.0	0.0268	0.0268	97.54	
D 13C6-Chrysene	46:23	8805464		1.6287	93.0	93.0	0.0124	0.0124	93.04	
Chrysene	46:23	6667789		0.9815	77.2	77.2	0.0263	0.0263	96.44	
D 13C6-Benzo(b)fluoranthene	54:38	8052237		1.4621	94.8	94.8	0.000932	0.000932	94.78	
Benzo[b]fluoranthene	54:39	6952921		1.1249	76.8	76.8	0.007696	0.007696	95.95	
\$ 13C12-Benzo(j)fluoranthene	54:40	7440700		1.3558	94.4	94.4	0.0141	0.0141	94.45	
D 13C6-Benzo(k)fluoranthene	54:46	9461461		1.7507	93.0	93.0	0.000778	0.000778	93.01	
Benzo[k]fluoranthene	54:46	7954022		1.1271	74.6	74.6	0.007085	0.007085	93.24	
* Benzo(e)pyrene-d12	55:30	5810473		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	9036295		1.6368	95.0	95.0	0.0133	0.0133	95.01	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	6804856		1.0013	75.2	75.2	0.006475	0.006475	94.01	
Benzo[a]pyrene	55:43	7072659		1.1130	75.5	75.5	0.006815	0.006815	94.40	
D 13C4-Benzo(a)pyrene	55:43	8413993		1.5508	93.4	93.4	0.0141	0.0141	93.38	
D Perylene-d12	55:53	6805855		1.1917	98.3	98.3	0.0152	0.0152	98.29	
Perylene	55:57	7312149		1.4307	75.1	75.1	0.005707	0.005707	93.87	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	5212706		1.0218	87.8	87.8	0.009707	0.009707	87.79	
Indeno[1,2,3-cd]pyrene	58:01	4742305		1.1249	80.9	80.9	0.007218	0.007218	101	
D 13C6-Dibenz(a,h)anthracene	58:05	5580937		1.0553	91.0	91.0	0.005784	0.005784	91.02	M
Dibenz(a,h)anthracene	58:06	4852505		1.1314	76.9	76.9	0.006054	0.006054	96.06	M
D 13C12-Benzo(ghi)perylene	58:30	7011632		1.2749	94.7	94.7	0.005558	0.005558	94.65	M
Benzo[g,h,i]perylene	58:30	6540833		1.2838	72.7	72.7	0.005631	0.005631	90.83	M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS5\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d  
Lims ID: IC L6  
Client ID:  
Sample Type: IC Calib Level: 6  
Inject. Date: 19-Jun-2024 21:56:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-006  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 20-Jun-2024 09:51:50 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:37:45

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	10869499	3625973	106	265	34207		
Naphthalene											
128.0626	11:33	11:34	-1	1.001	11077976	3692357	461	1152	8009		
13C6-2-Methylnaphthalene											
148.0984	13:52	13:52	-1	0.800	5726757	2589286	6	15	431548		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.000	5812992	2698054	249	622	10836		
13C6-Acenaphthylene											
158.0828	16:44	16:45	-1	0.966	6099396	2156421	5	12	431284		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	6459116	2248213	232	580	9691		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3688074	1311036	1	2	1311036		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	3599722	1263507	6	15	210585		
Acenaphthene											
154.0783	17:27	17:27	-1	1.001	3643698	1278130	157	392	8141		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.139	3234715	932326	2	5	466163		
Fluorene											
166.0783	19:44	19:45	-1	1.001	3186786	933950	141	352	6624		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4194540	970097	14	35	69293		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	3681835	848869	168	420	5053		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	3216411	735648	6	15	122608		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	3339808	735076	14	35	52505		
Anthracene											
178.0783	25:27	25:28	-1	1.000	3587223	812516	168	420	4836		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	9143194	1757365	135	337	13018		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	8083123	1556738	110	275	14152		
Pyrene-d10											
212.1404	35:25	35:27	-2		7731706	1447359	45	112	32164		
13C3-Pyrene											
205.0883	35:34	35:35	-2	1.004	10295818	1911929	101	252	18930		
Pyrene											
202.0783	35:34	35:35	-1	1.000	8469657	1575706	110	275	14325		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	4139575	754812	9	22	83868		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-2	1.301	8168778	1438631	149	372	9655		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	6207787	1112833	150	375	7419		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.310	8805464	1454322	149	372	9761		
Chrysene											
228.0939	46:23	46:25	-2	1.000	6667789	1145408	150	375	7636		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	8052237	2102138	10	25	210214		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	6952921	1836809	73	182	25162		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	7440700	1837451	140	350	13125		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	9461461	2279319	10	25	227932		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	7954022	1948646	73	182	26694		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		5810473	1834824	133	332	13796		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-2	1.001	9036295	2807461	160	400	17547		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	6804856	2213216	73	182	30318		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	7072659	2089671	73	182	28626		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	8413993	2399289	160	400	14996		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	6805855	2229131	133	332	16760		
Perylene											
252.0939	55:57	55:58	-1	1.001	7312149	2342635	73	182	32091		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	5212706	1785870	73	182	24464		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	4742305	1516411	58	145	26145		
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:07	-2	1.047	5580937	1489164	45	112	33093		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	4852505	1323479	41	102	32280		M
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	-1	1.054	7011632	2005951	52	130	38576		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-2	1.000	6540833	1743896	58	145	30067		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS5\_00002

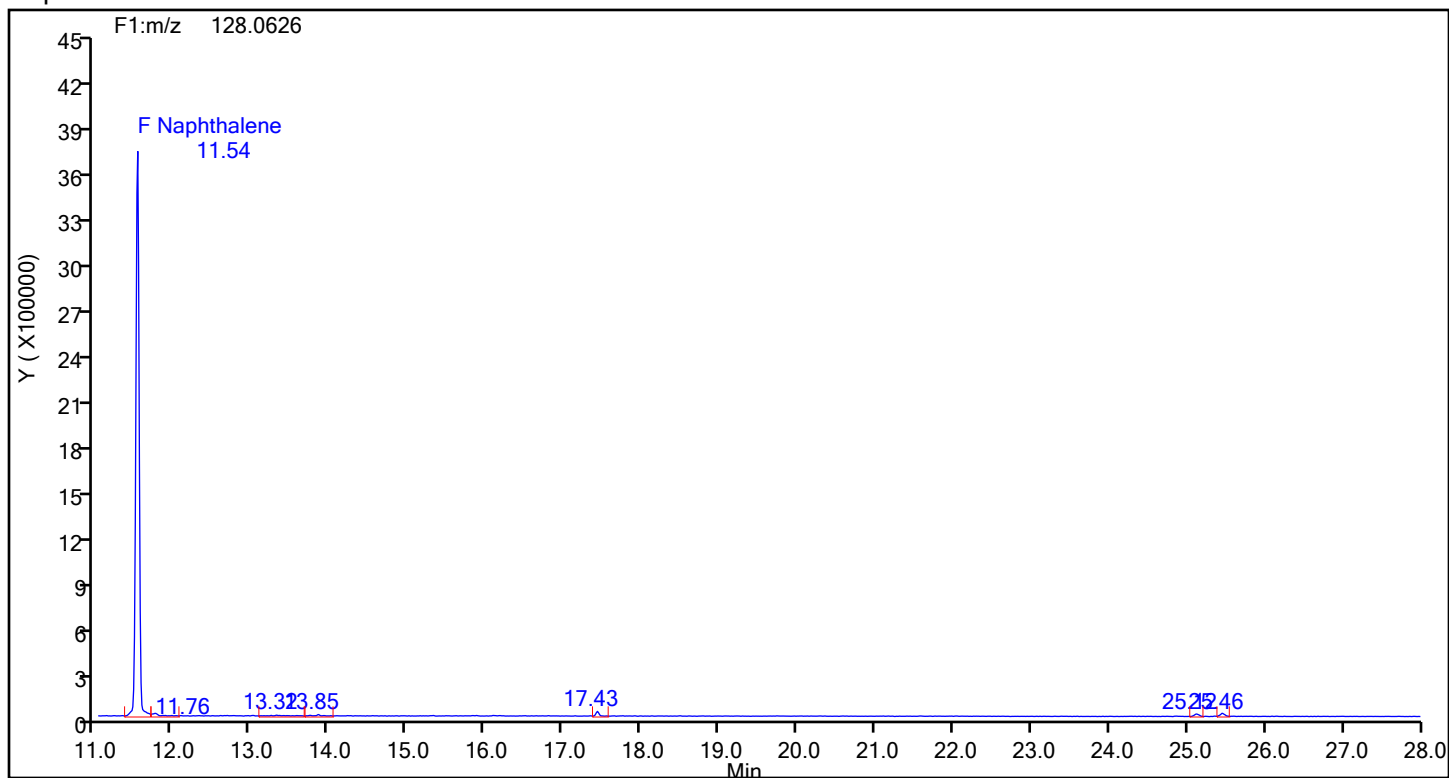
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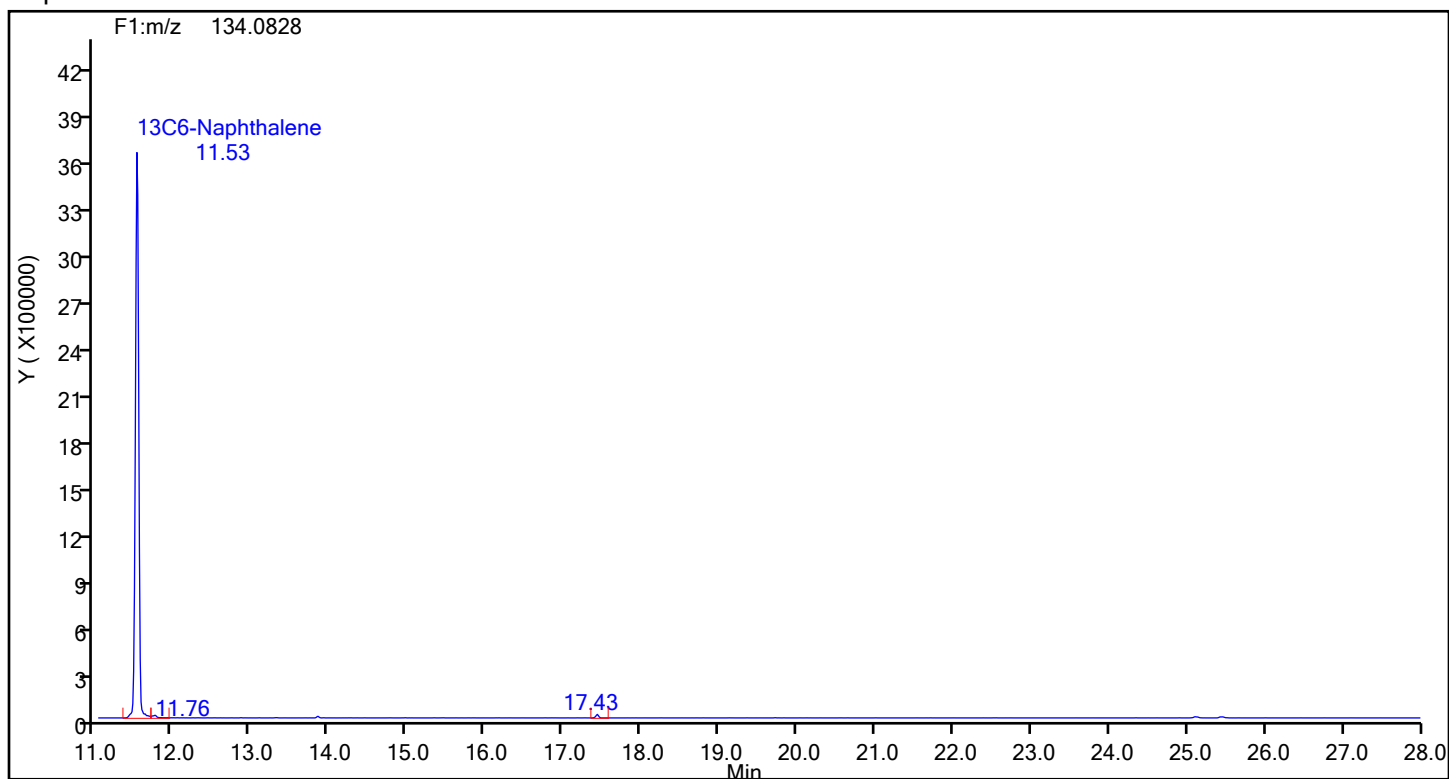
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



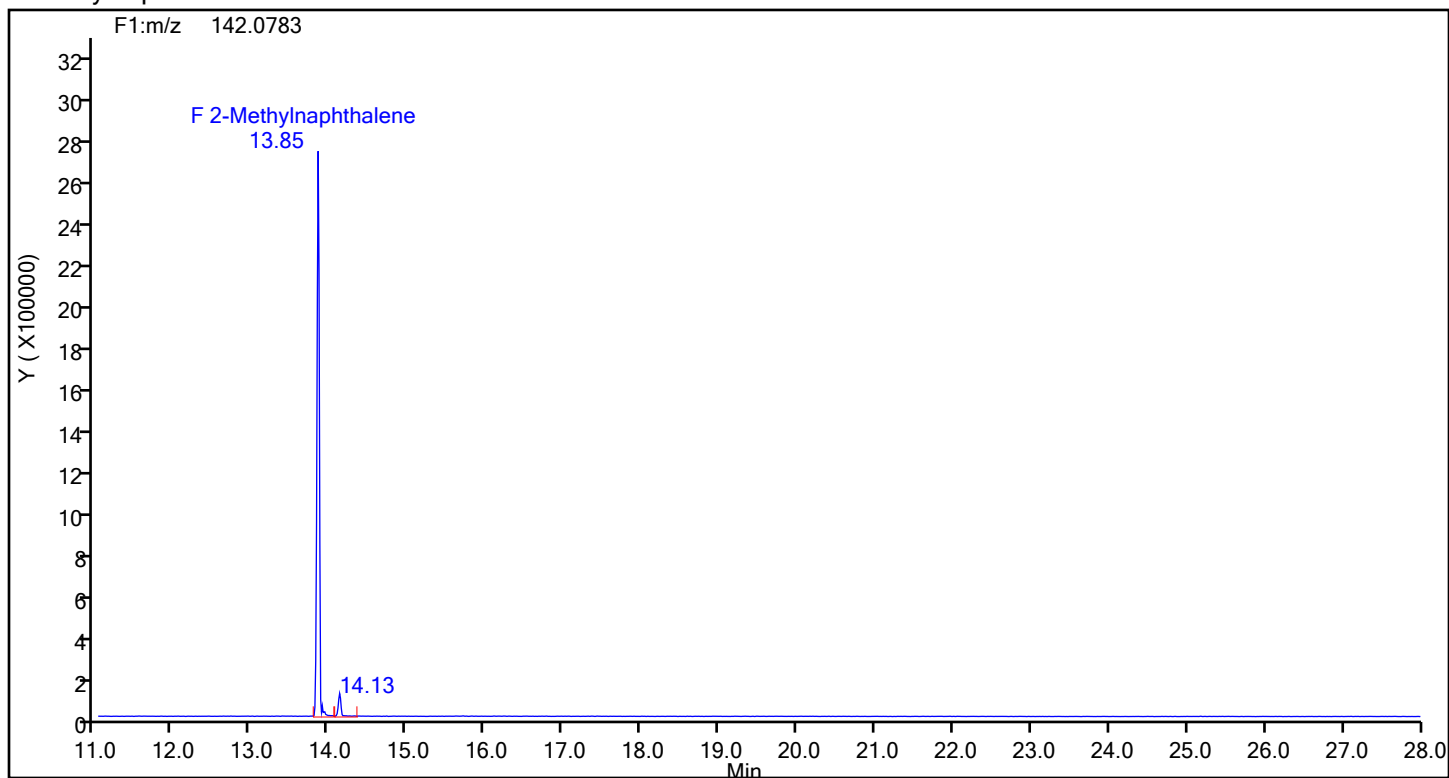
## Naphthalene Standards



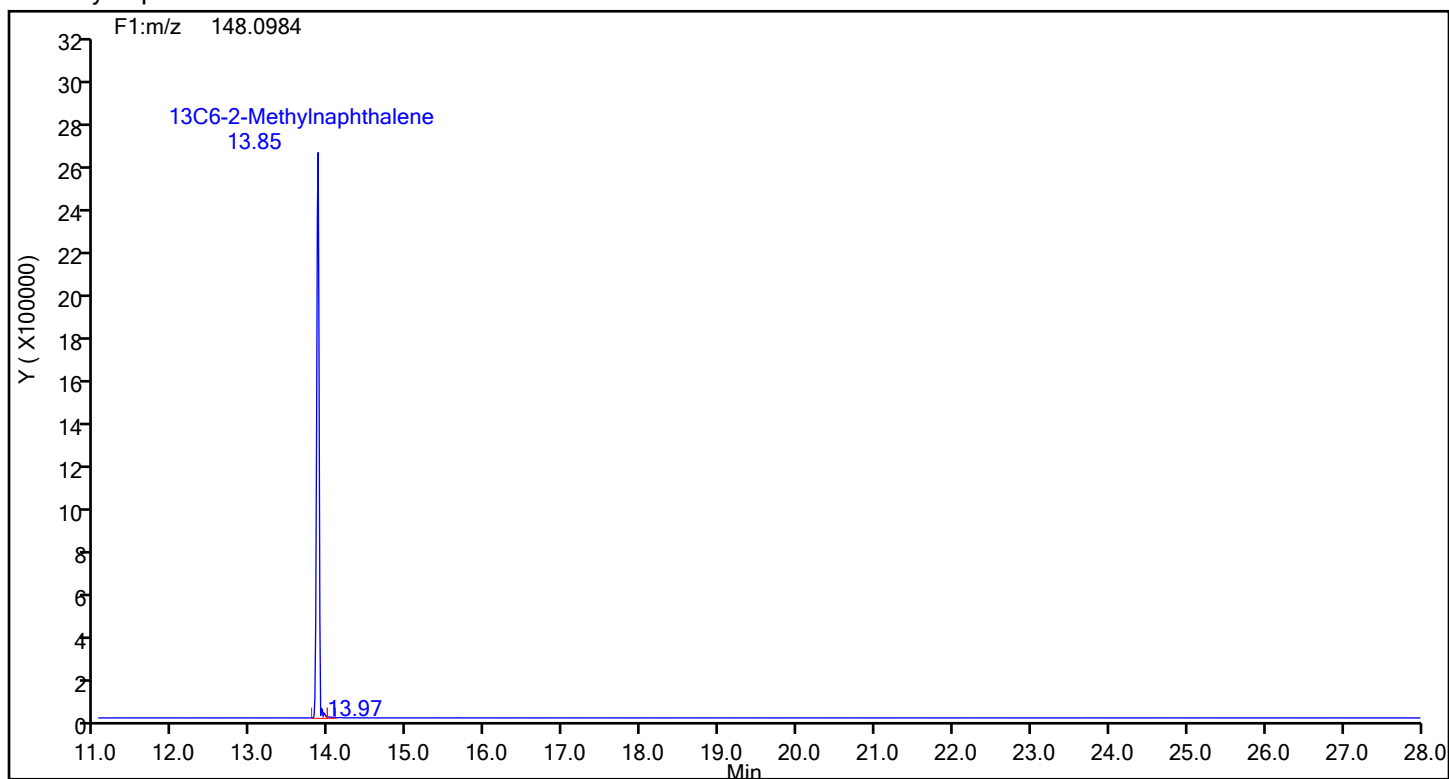
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



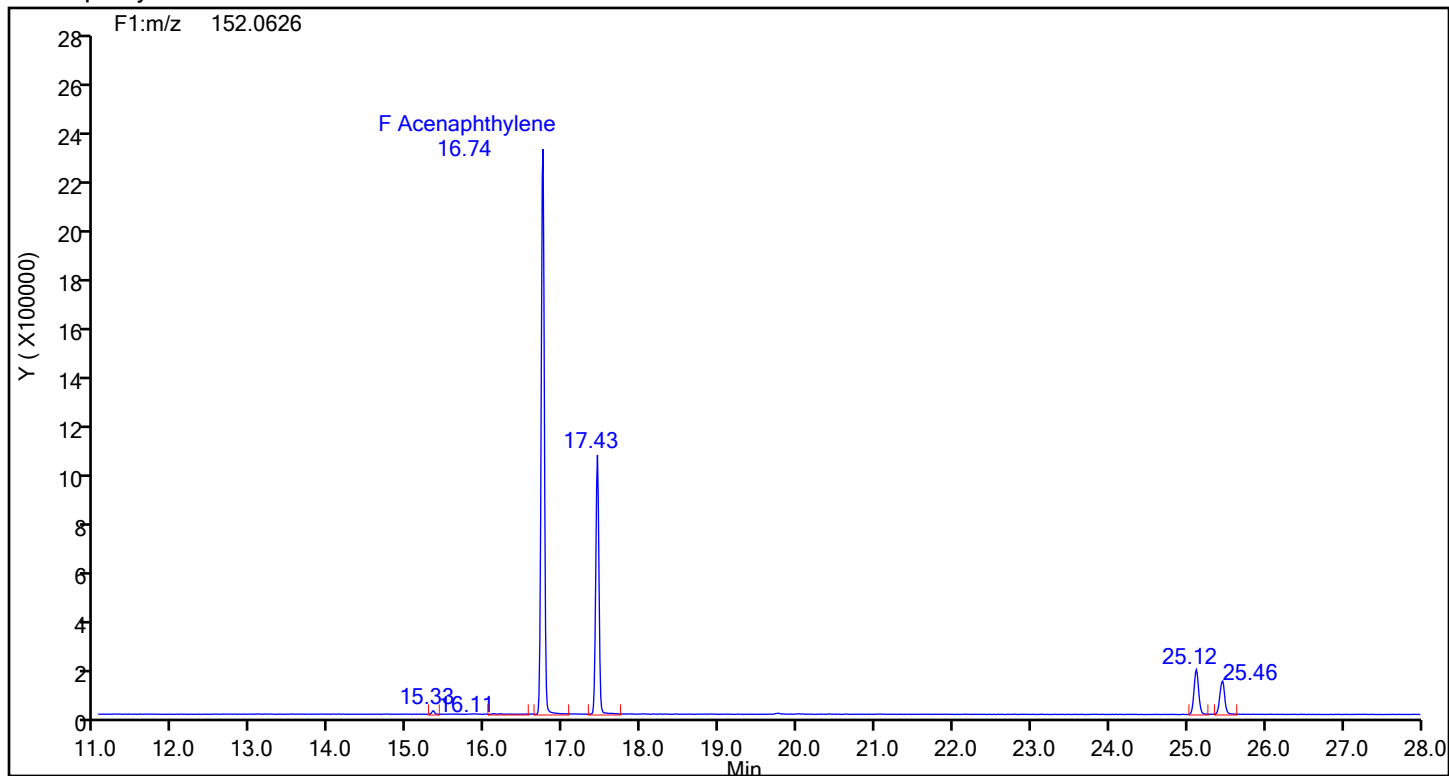
## 2-Methylnaphthalene Standards



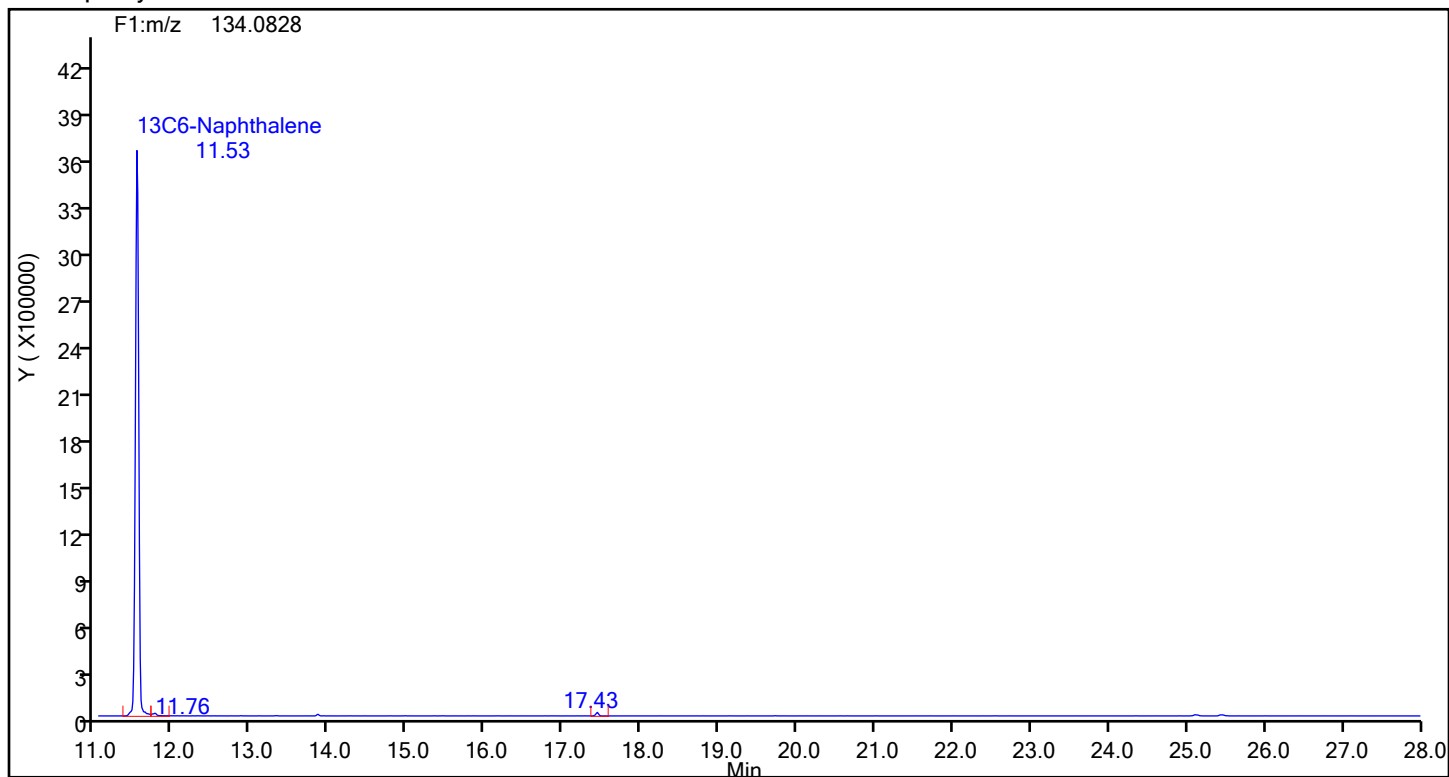
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



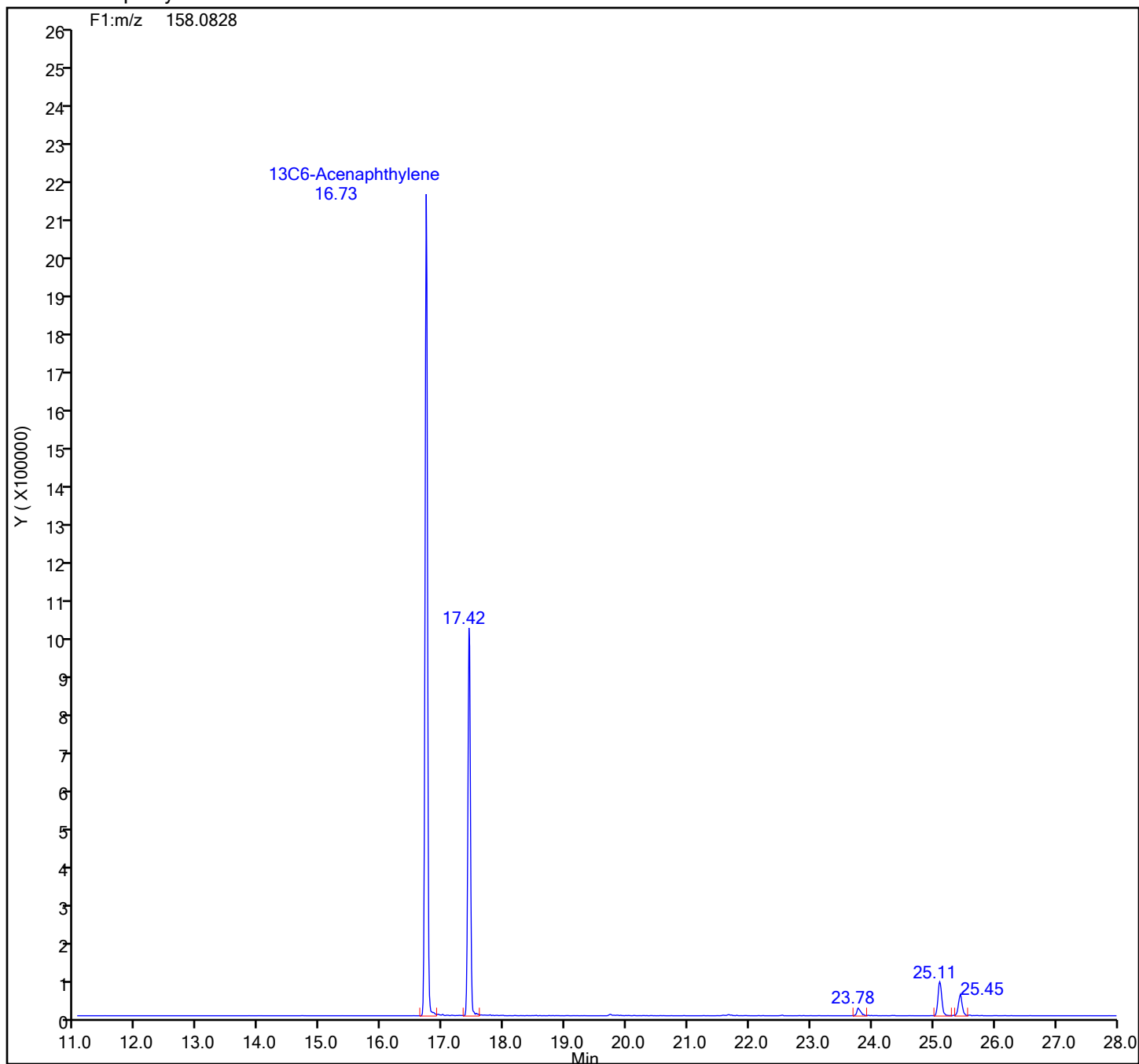
## Acenaphthylene Standards



## Eurofins Knoxville

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Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

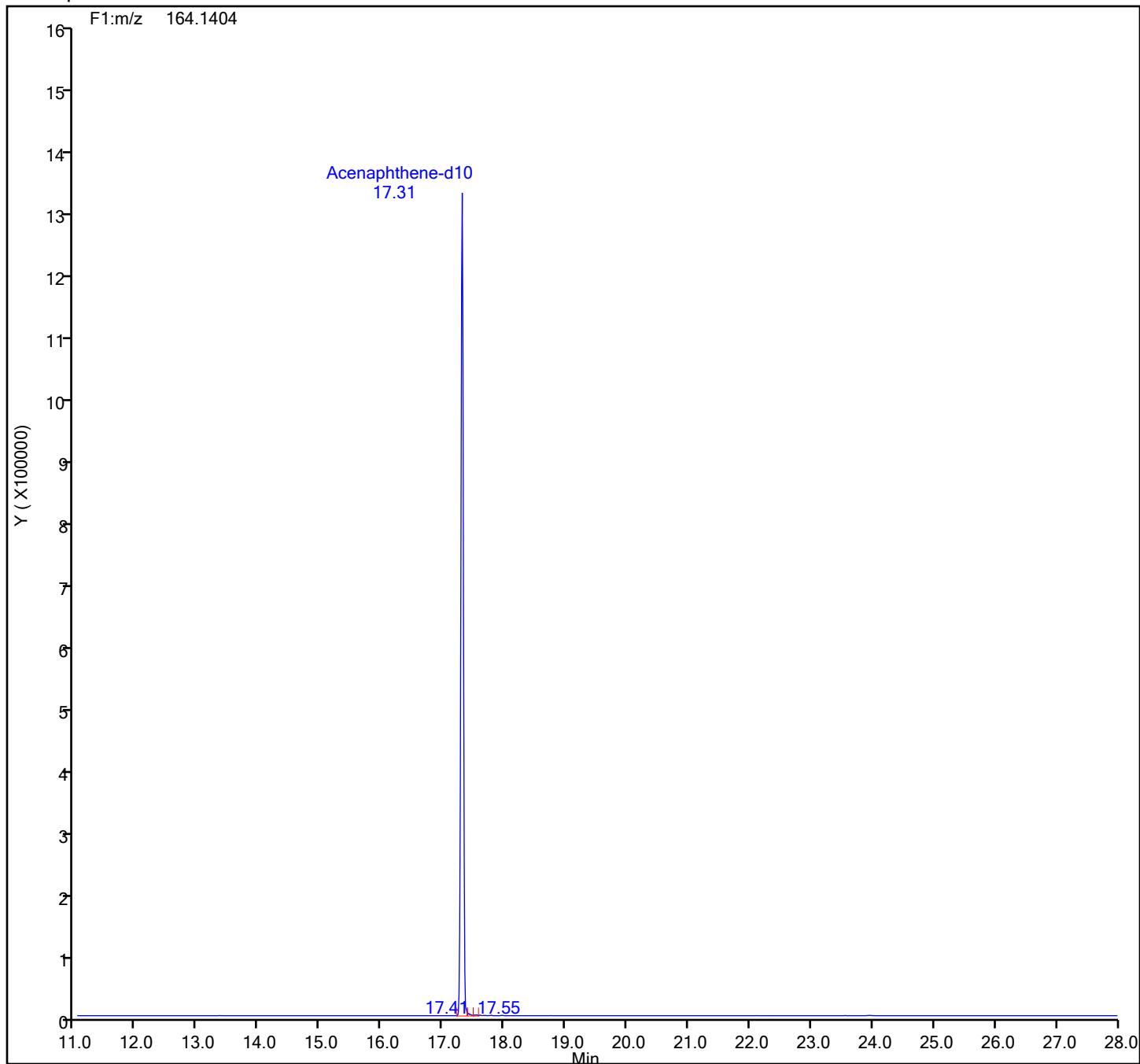
## 13C6-Acenaphthylene Standards



Eurofins Knoxville

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Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	87843	Sample Line#:	6
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Acenaphthene-d10 Standards			

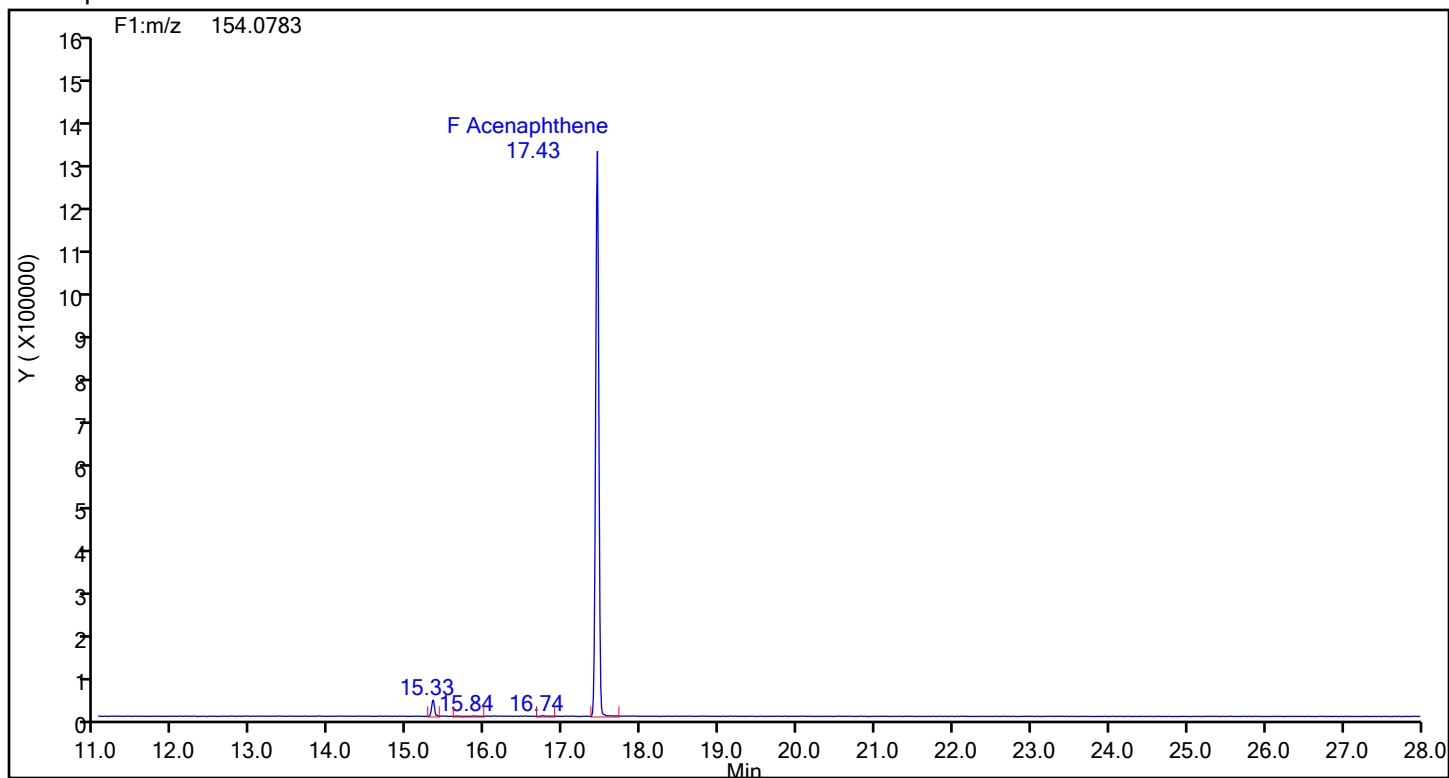
### Acenaphthene-d10 Standards



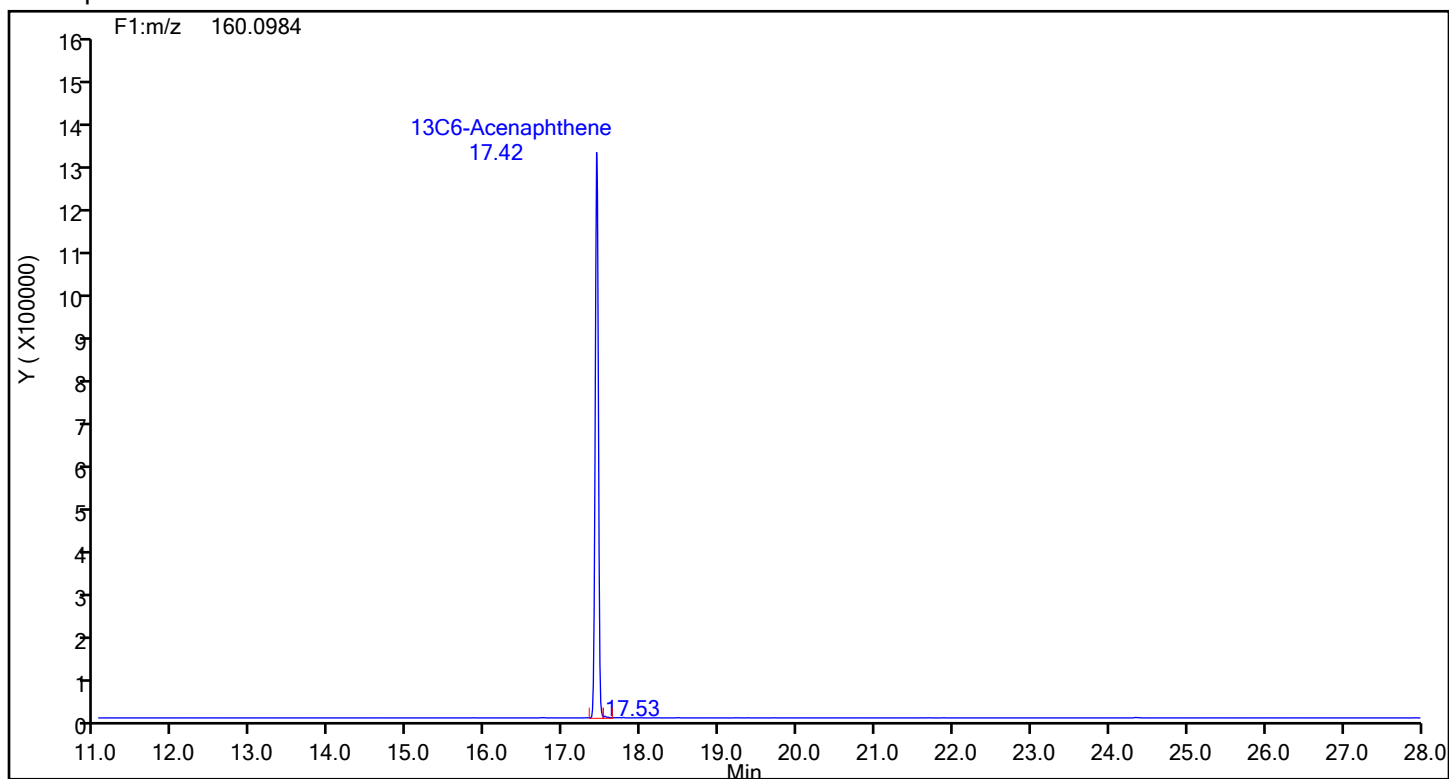
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



## Acenaphthene Standards

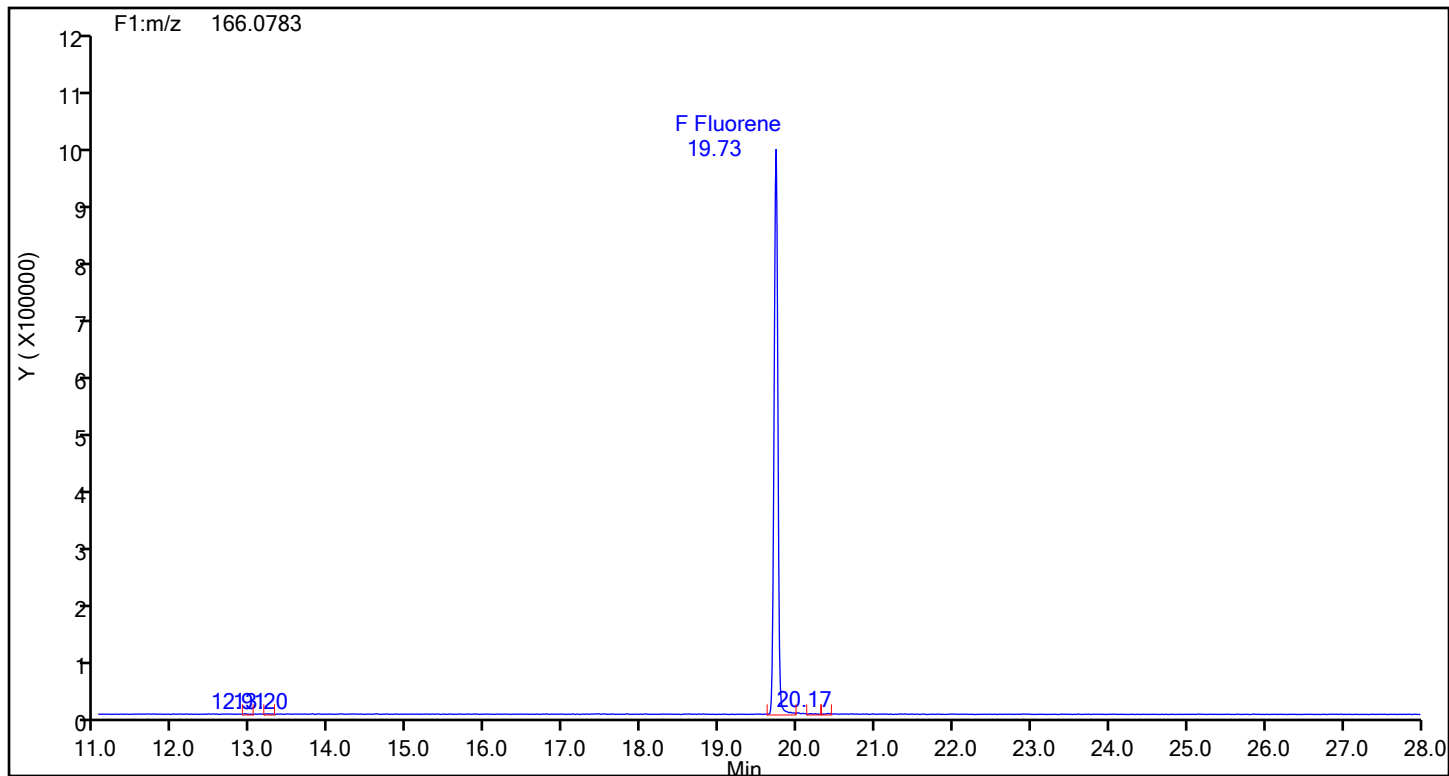




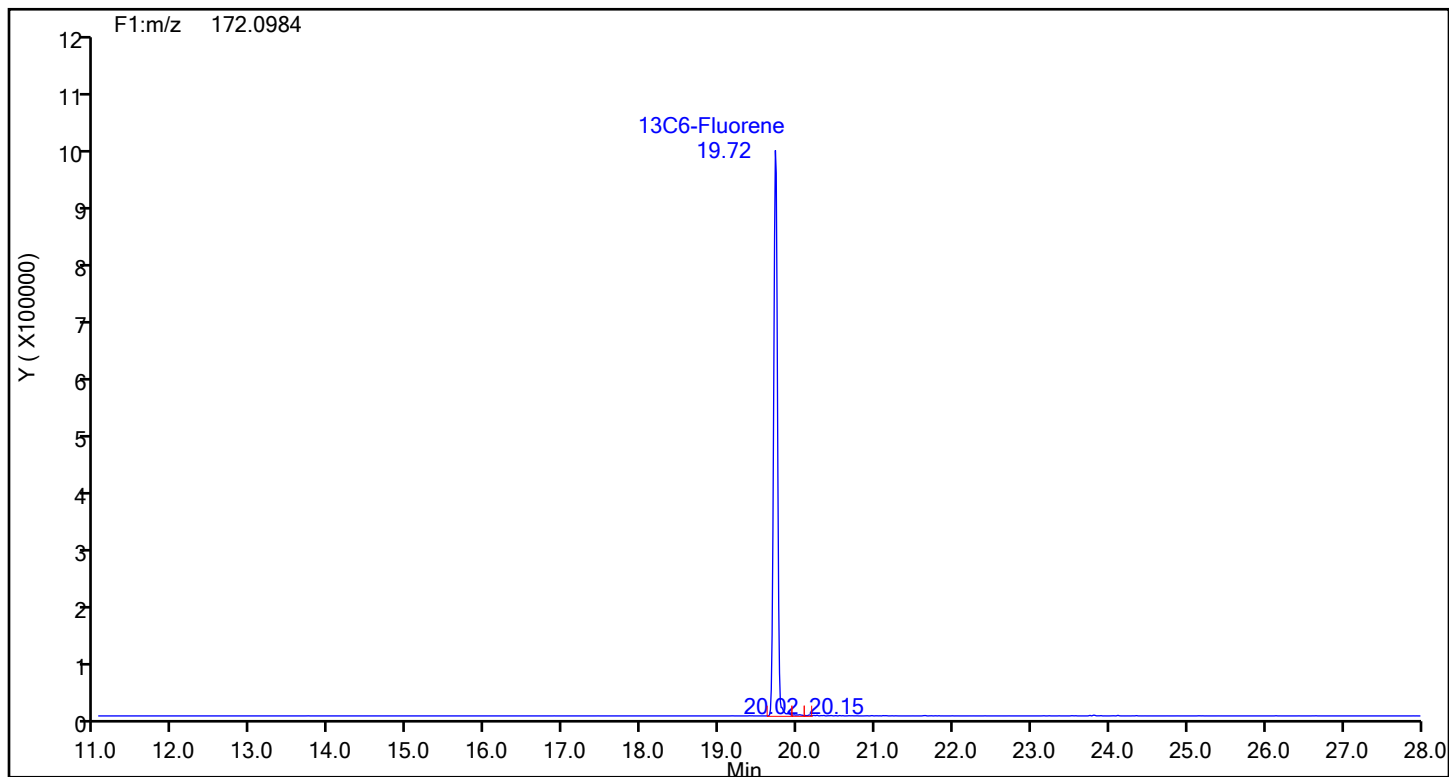
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene

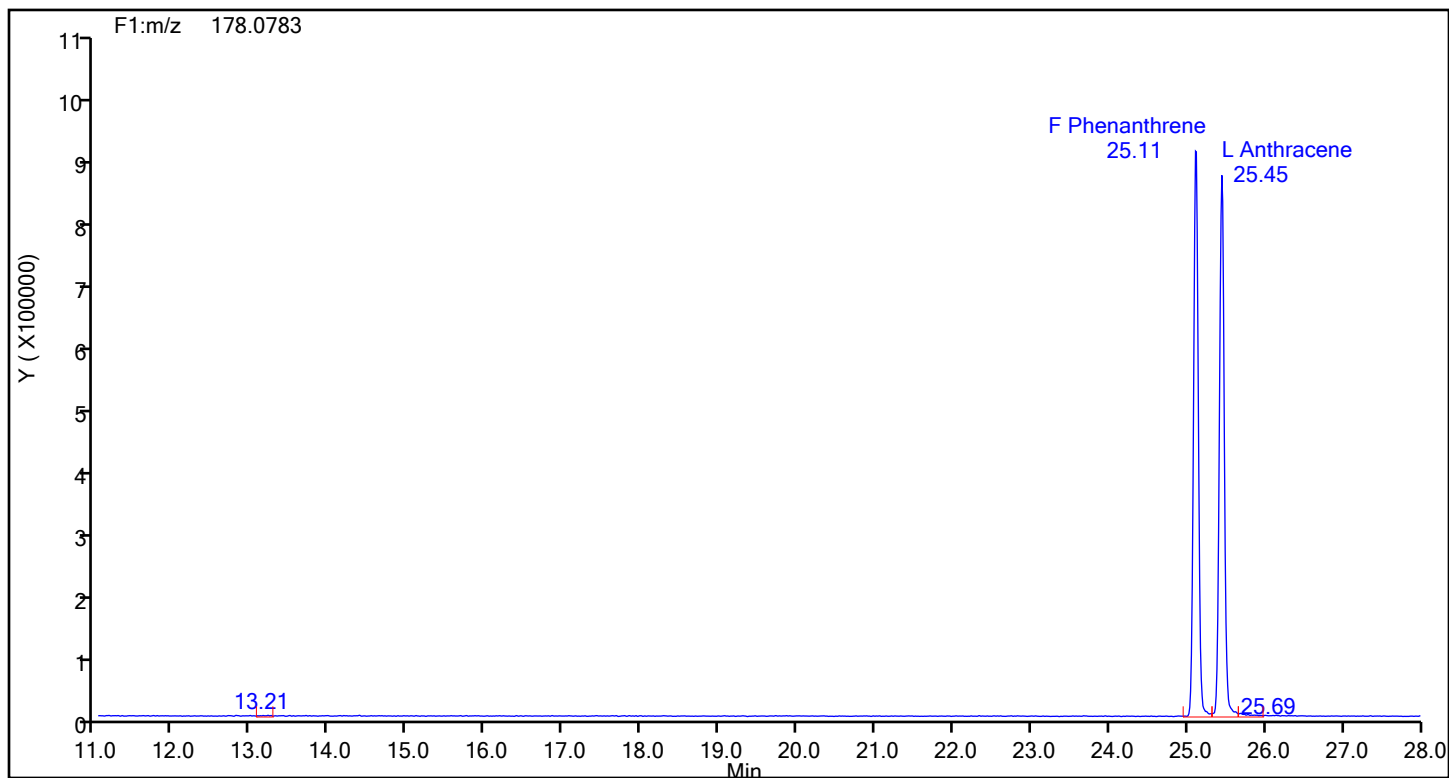


## Fluorene Standards

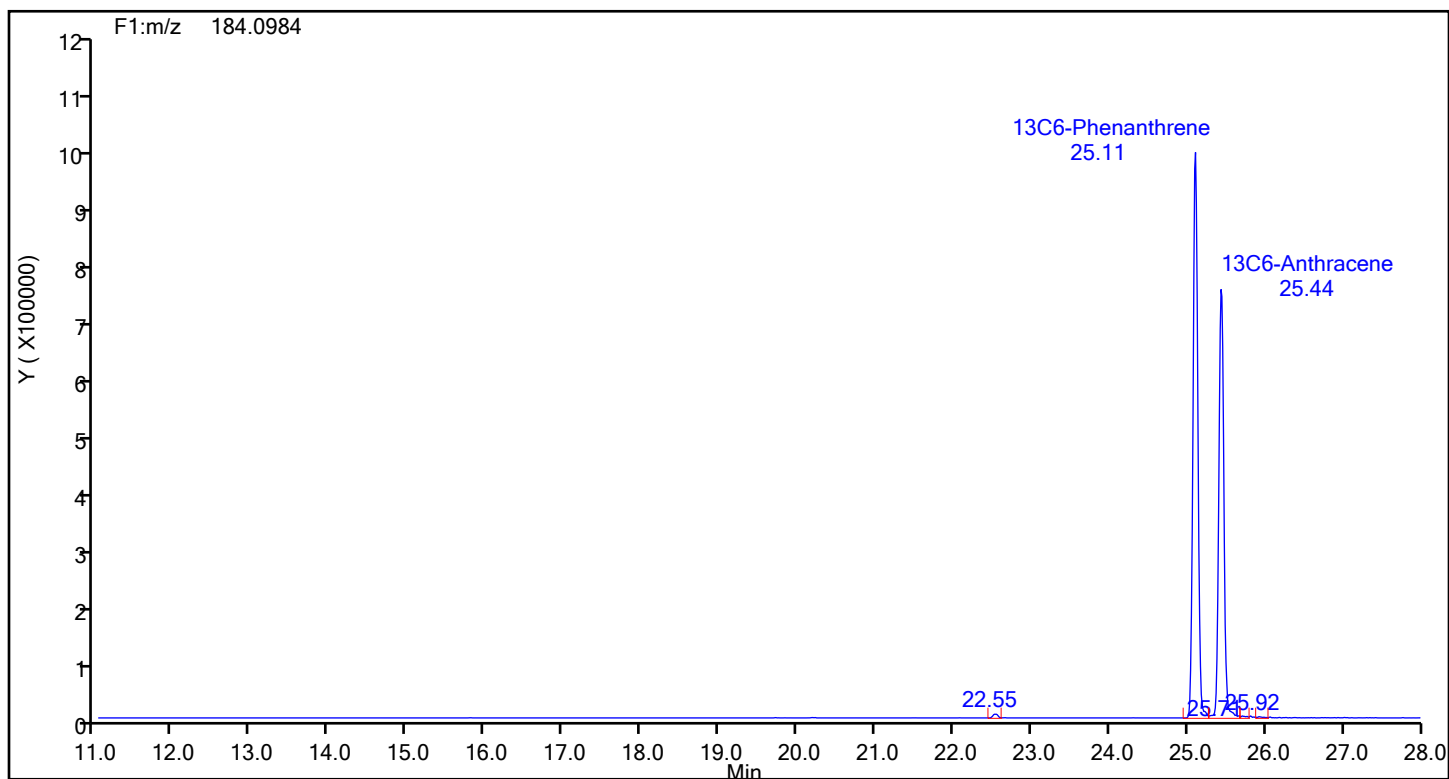


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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene

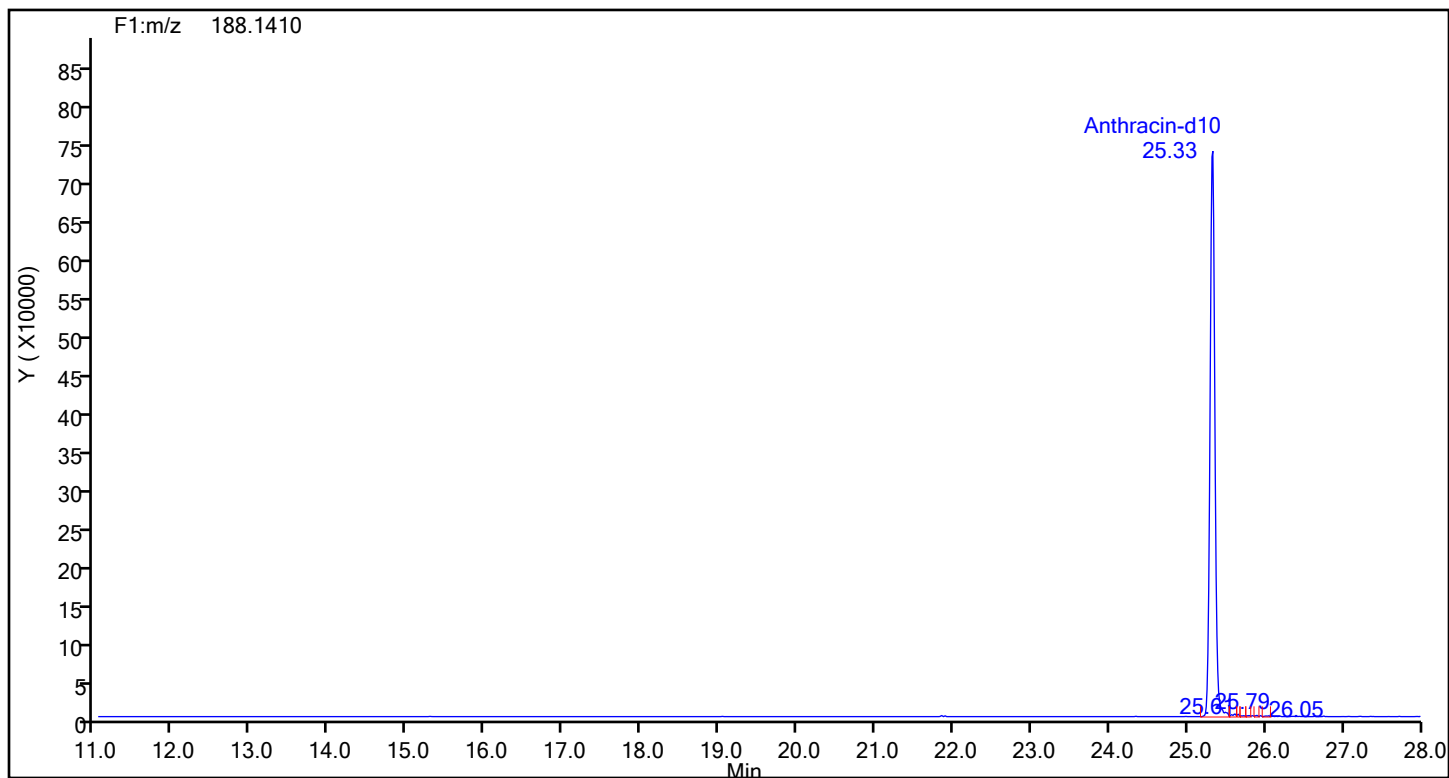


## Phenanthrene Standards

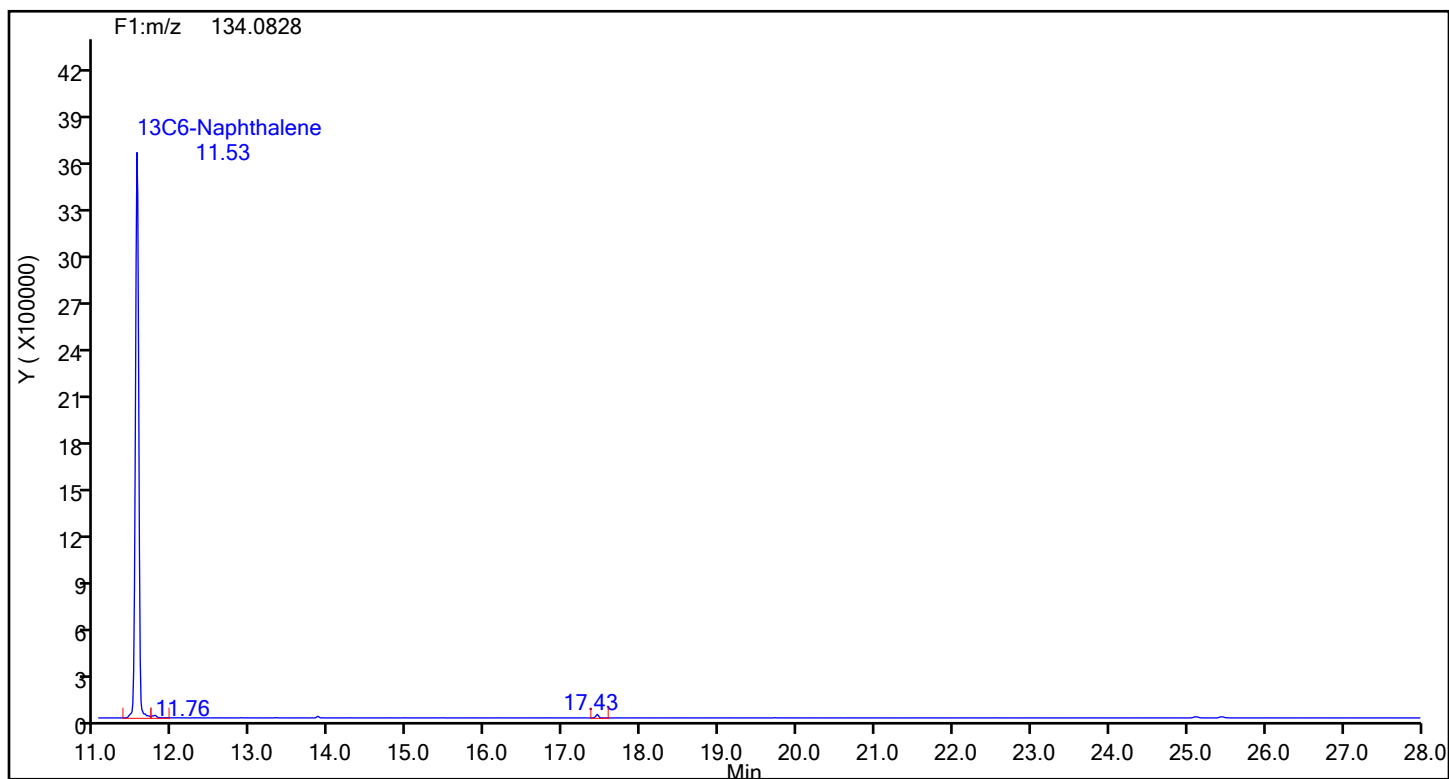


## Eurofins Knoxville

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Anthracin-d10

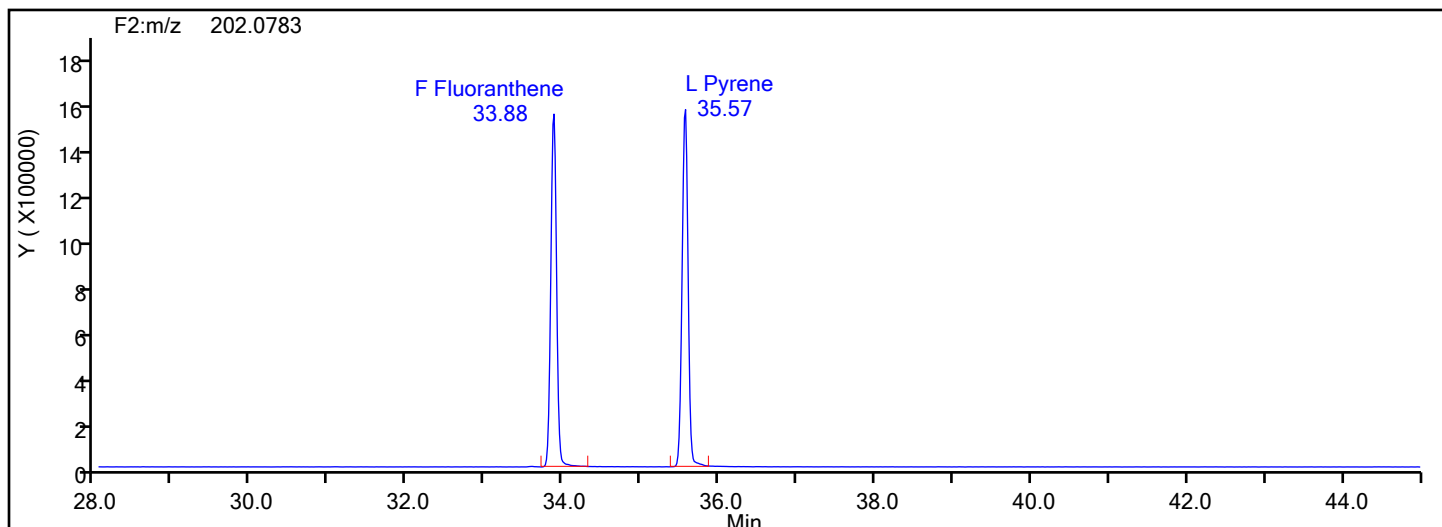


## Anthracin-d10 Standards

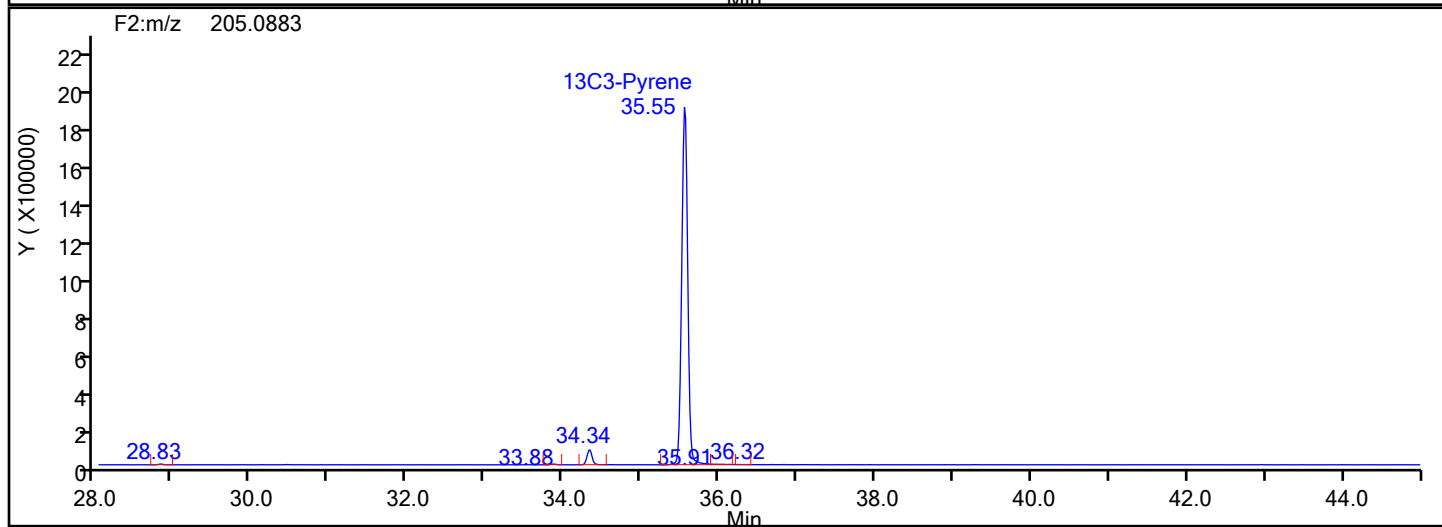
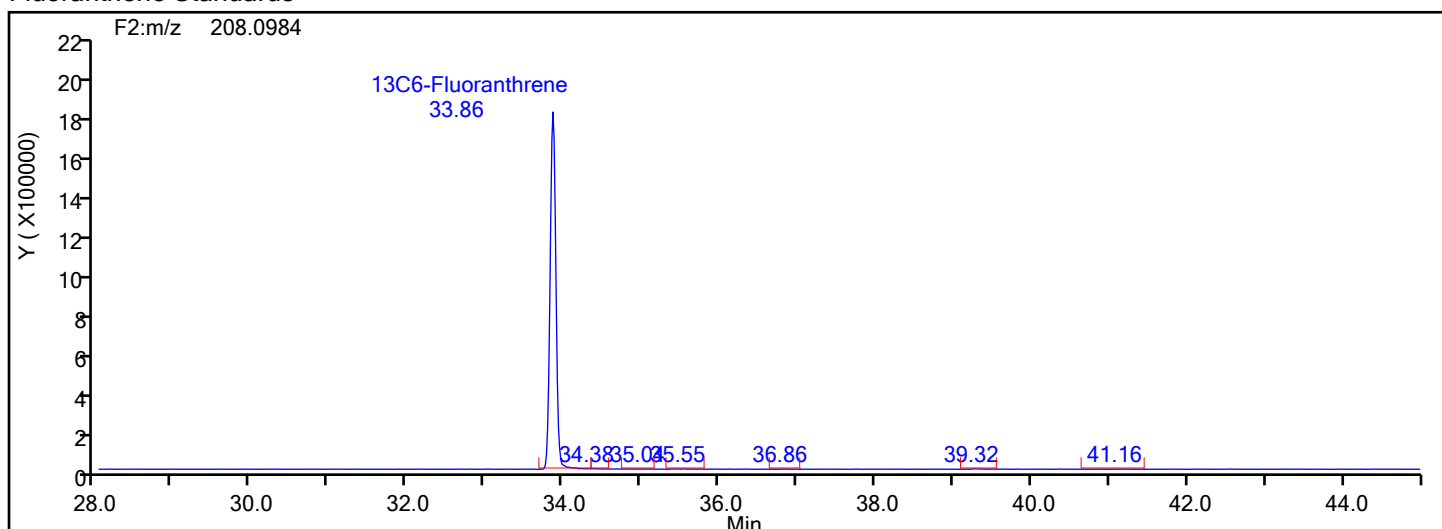


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Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



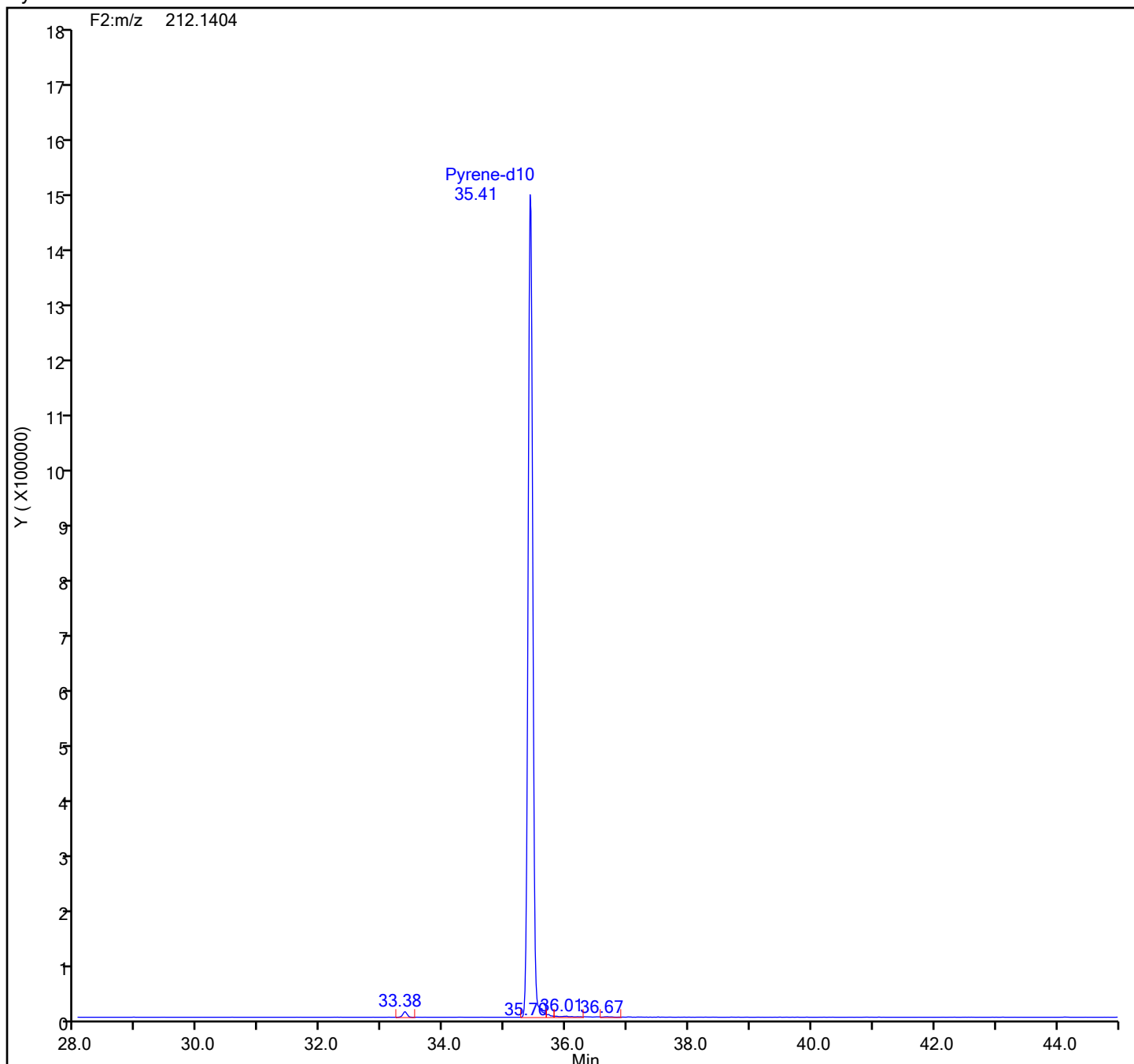
## Fluoranthene Standards



## Eurofins Knoxville

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Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

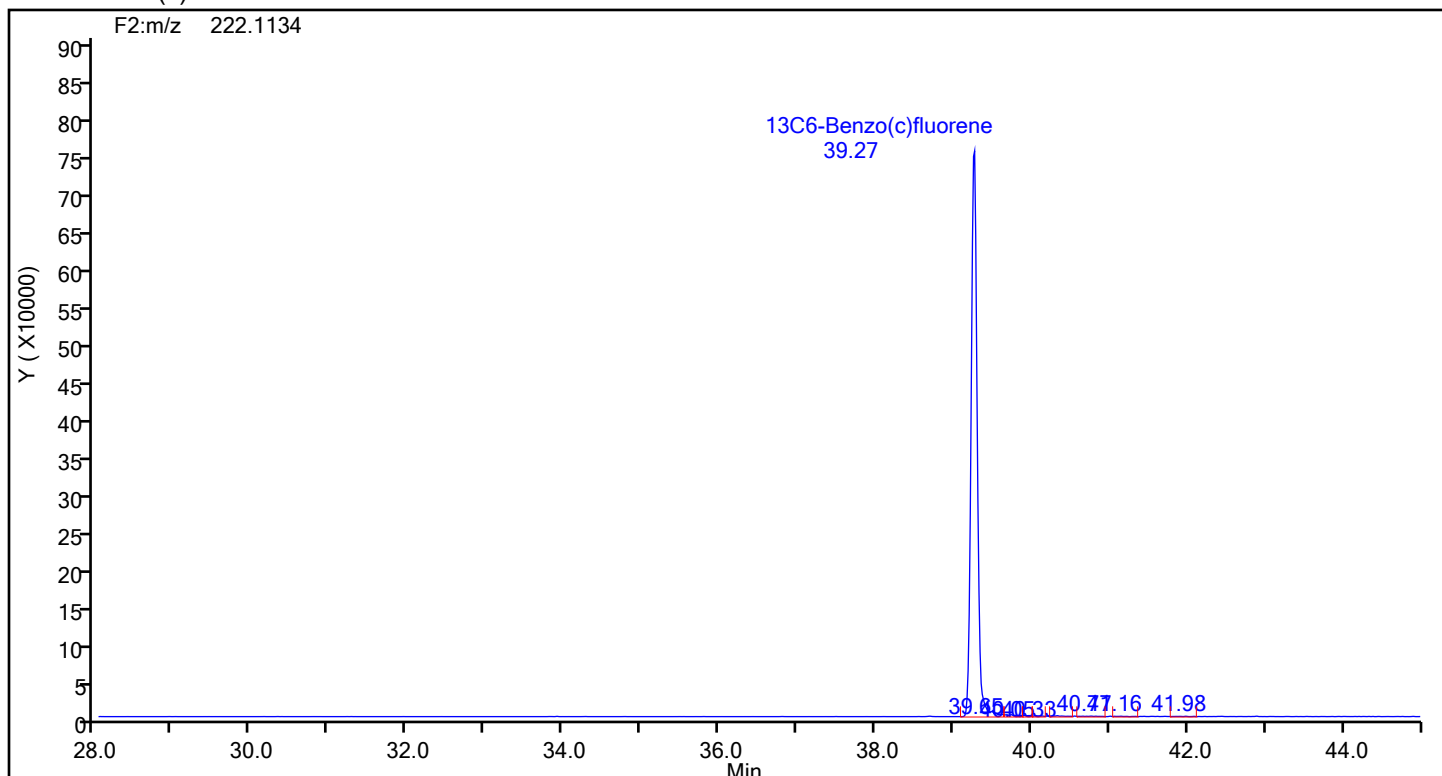
## Pyrene-d10 Standards



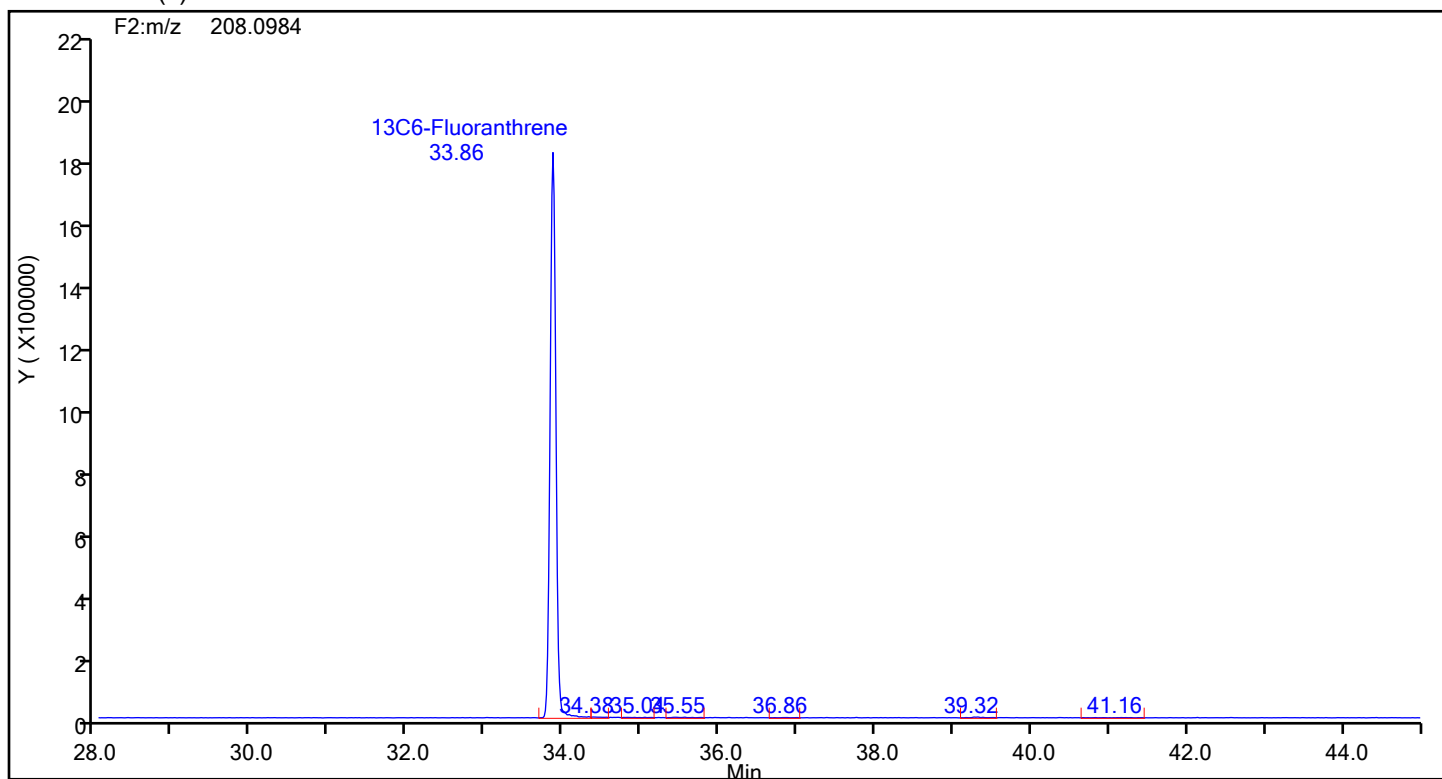
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



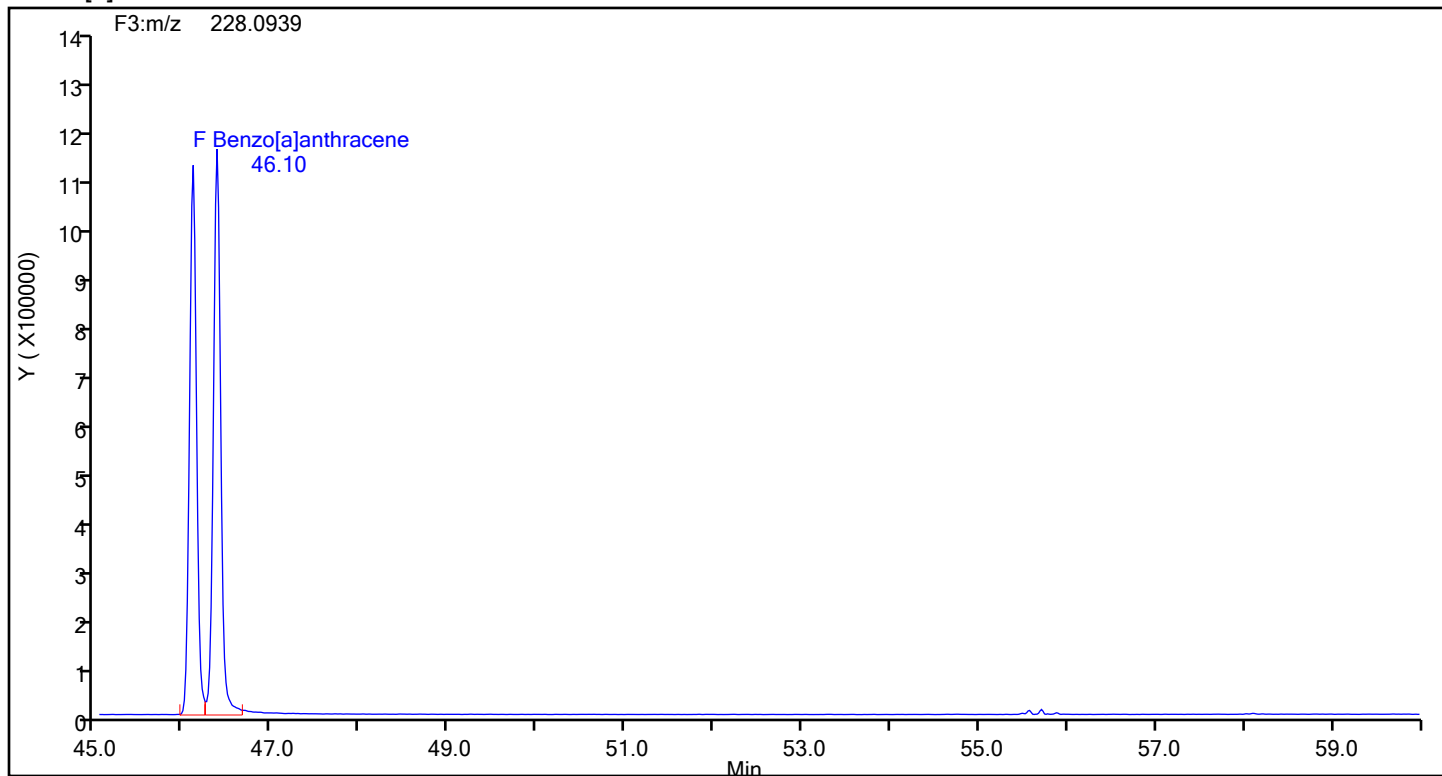
## 13C6-Benzo(c)fluorene Standards



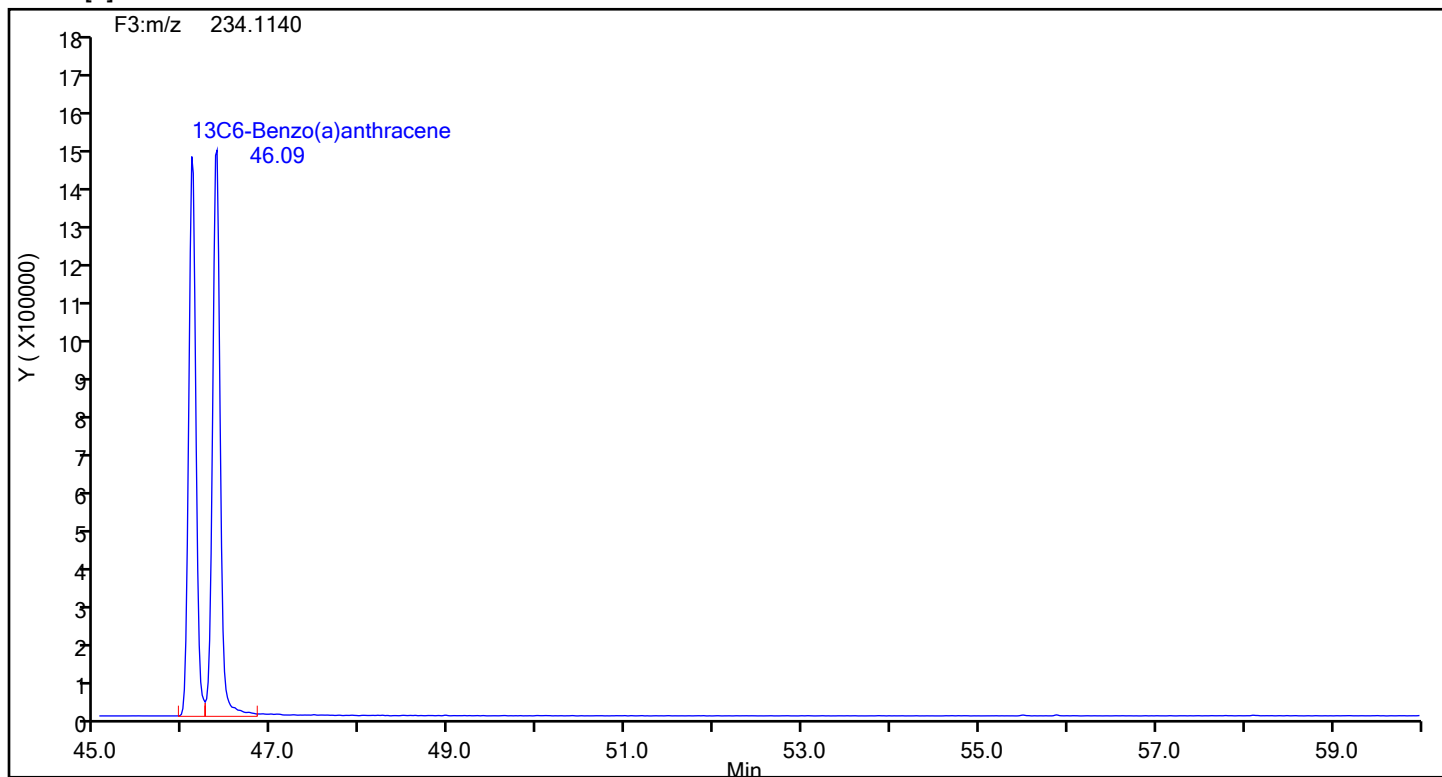
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



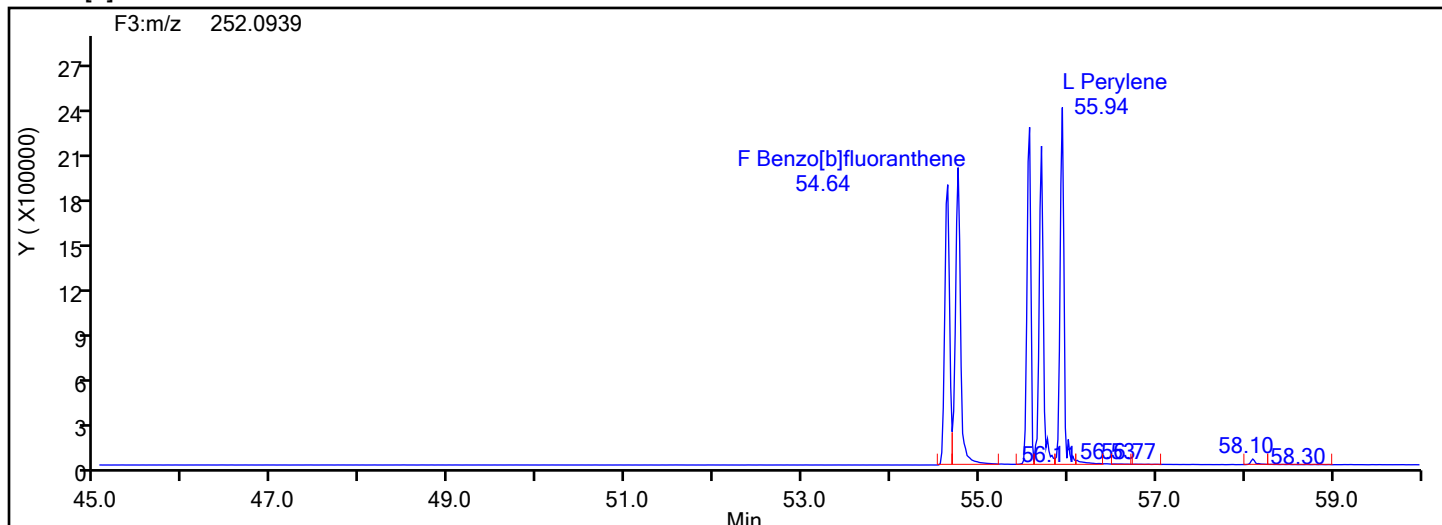
## Benzo[a]anthracene Standards



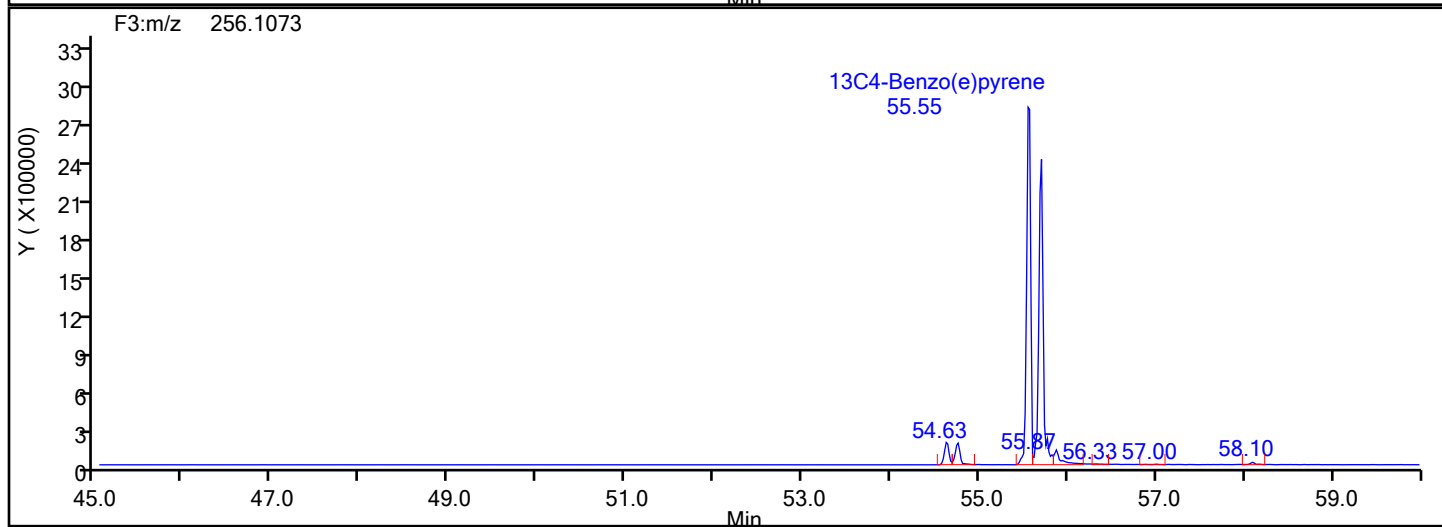
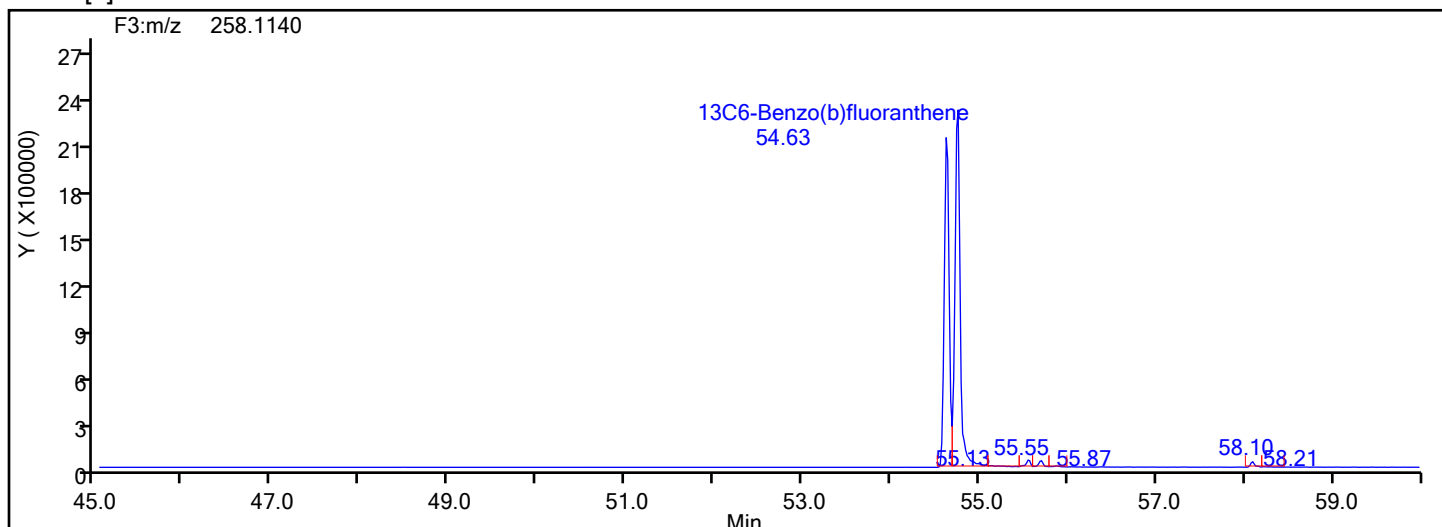
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards

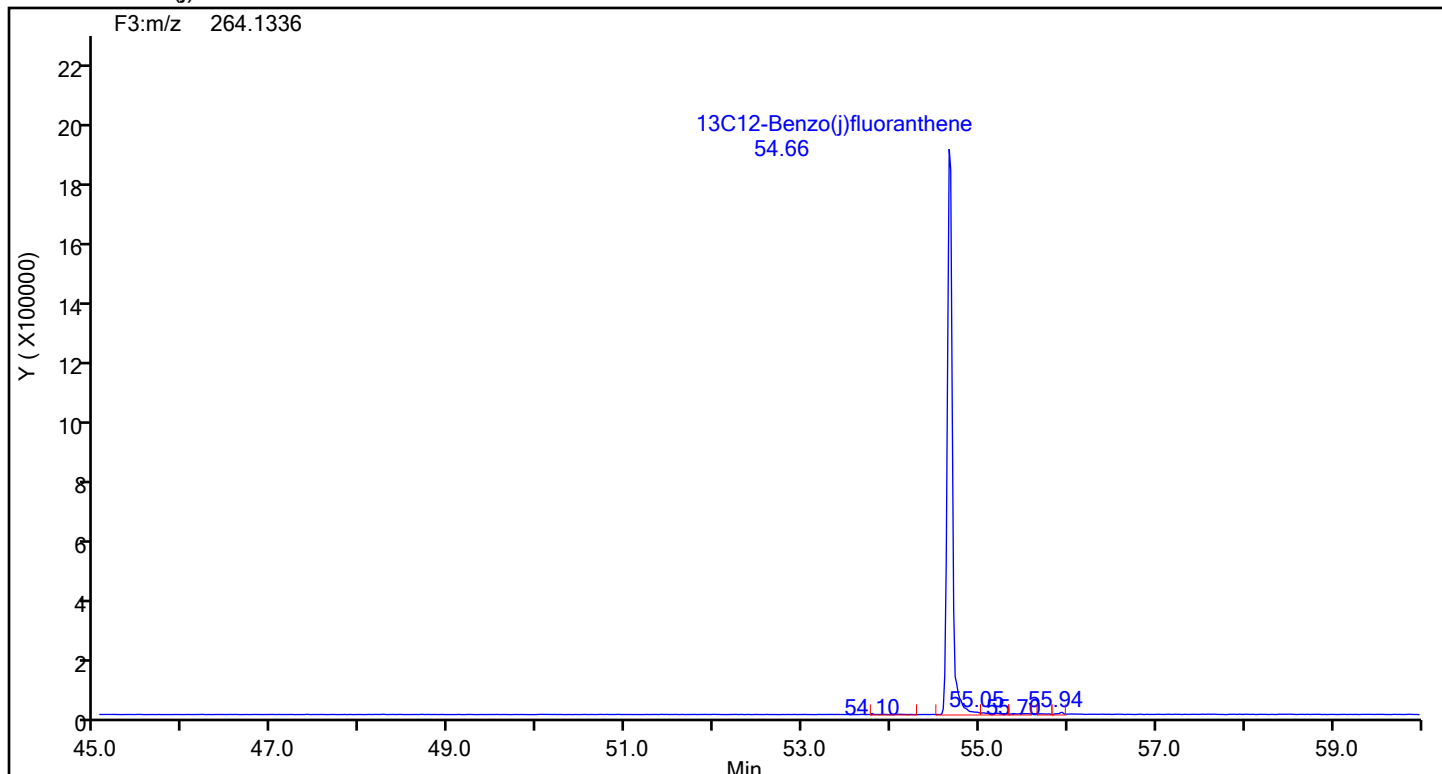




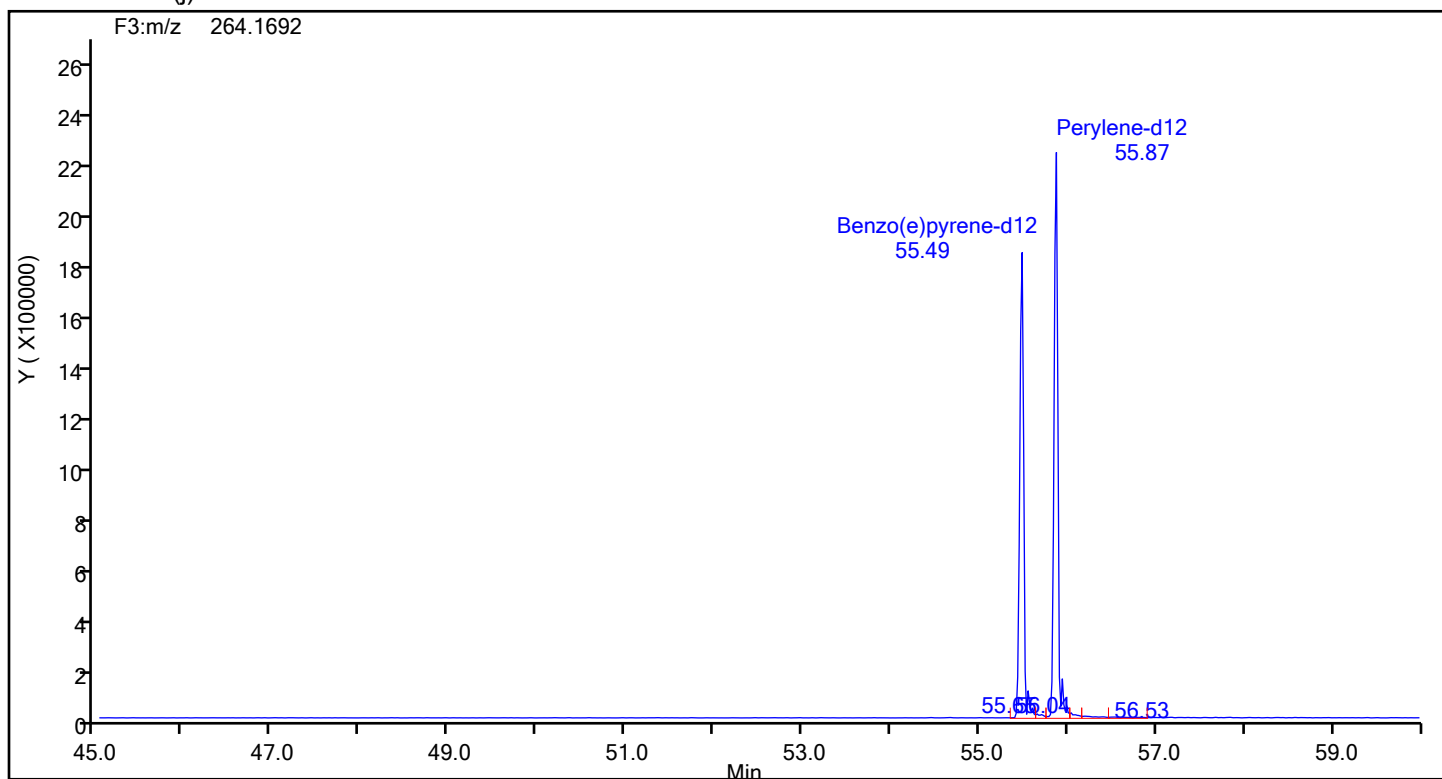
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



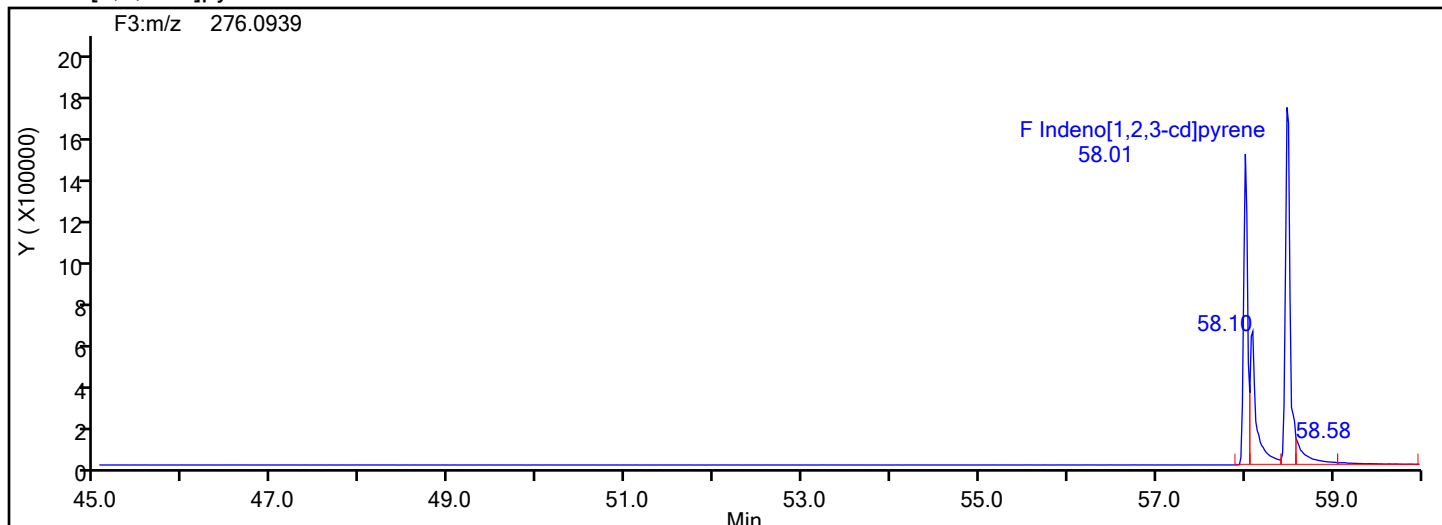
## 13C12-Benzo(j)fluoranthene Standards



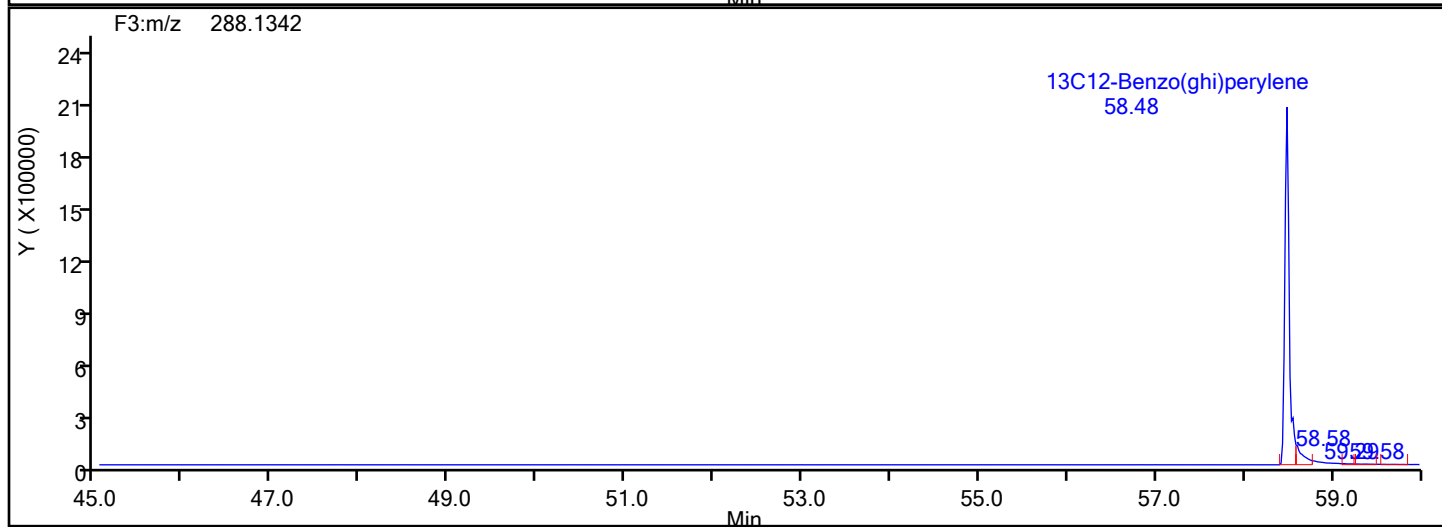
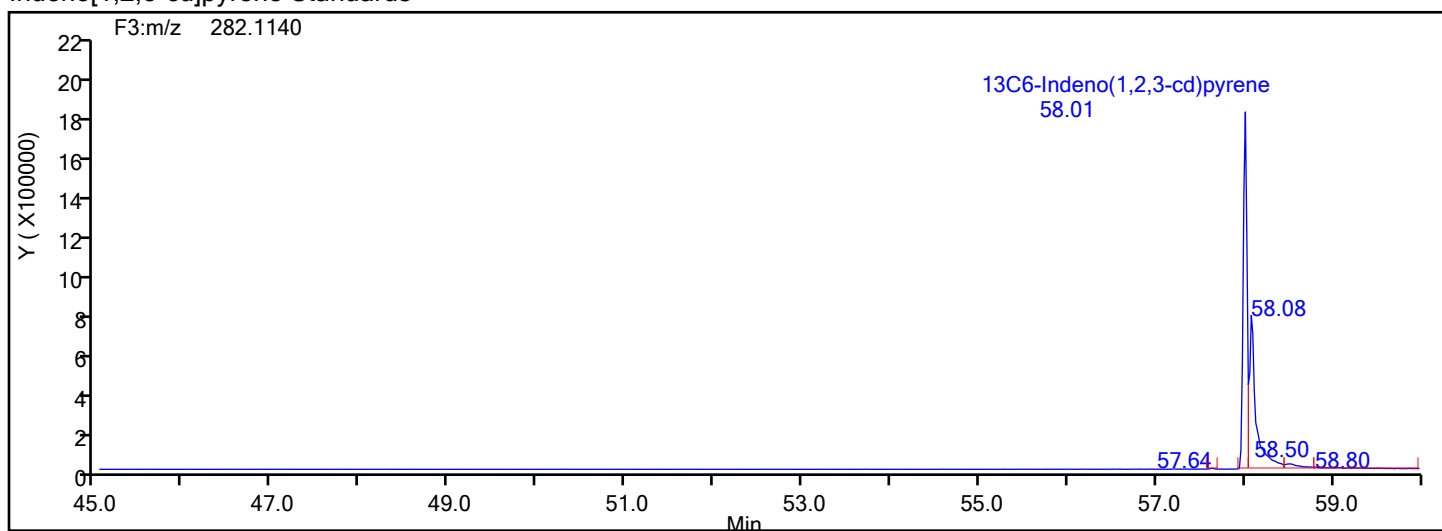
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Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

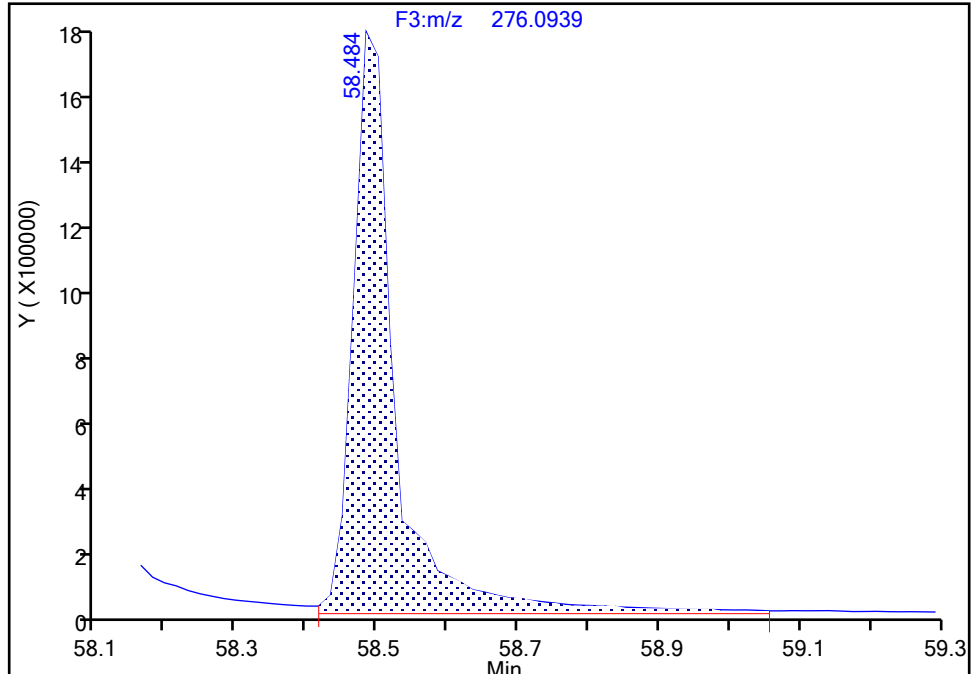
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Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

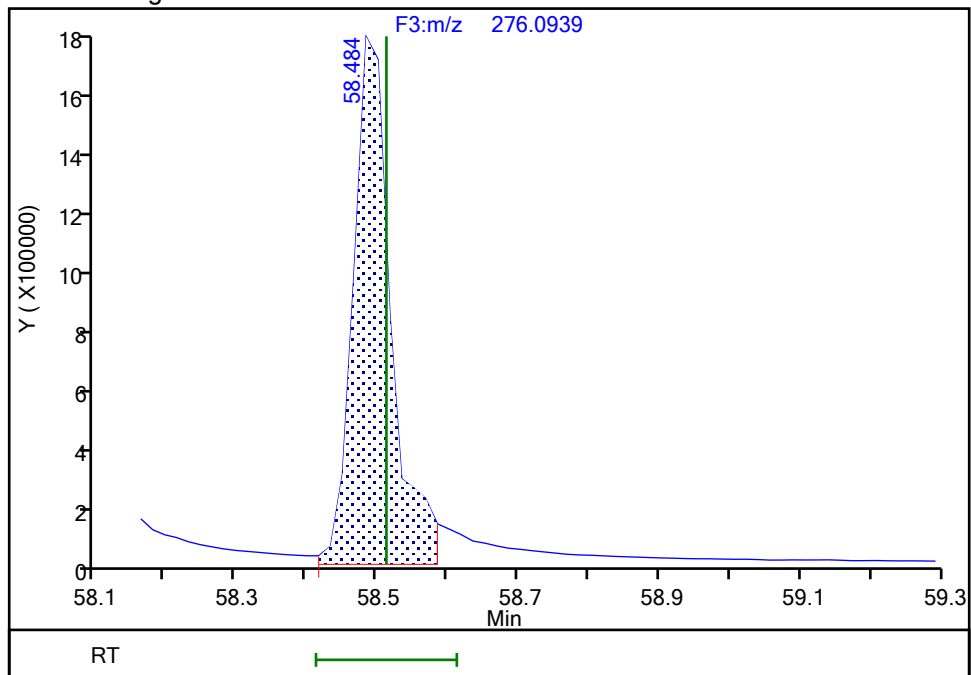
RT: 58.48  
Area: 7480538  
Amount: 81.865828  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.48  
Area: 6540833  
Amount: 72.666042  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

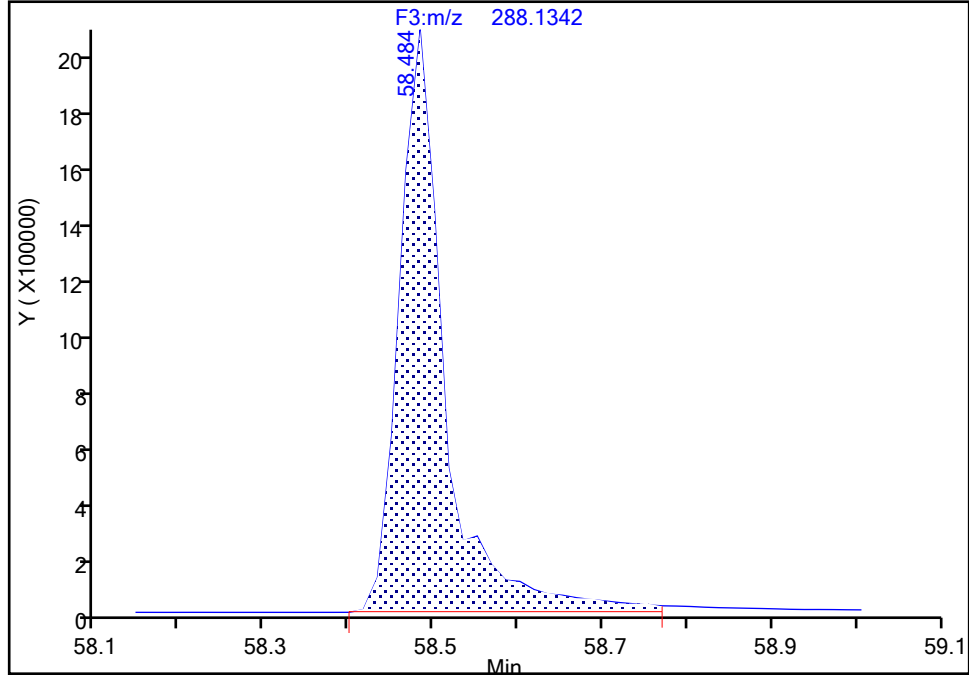
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Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C12-Benzo(ghi)perylene, CAS: 350820-11-0**

Signal: 1

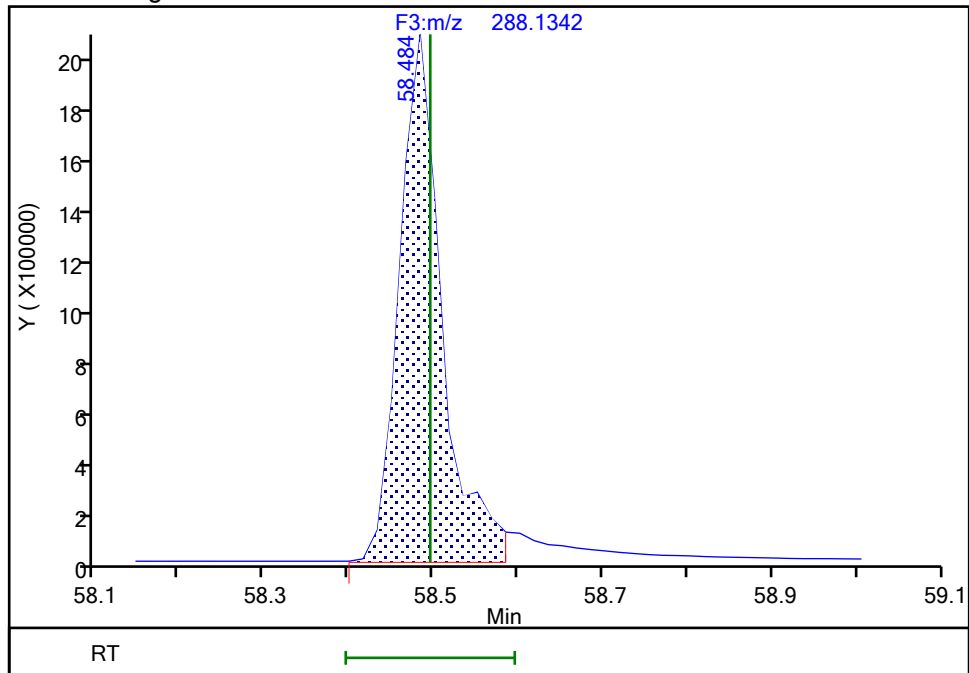
RT: 58.48  
Area: 7561145  
Amount: 99.107109  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.48  
Area: 7011632  
Amount: 94.653865  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:17 -04:00:00 (UTC)

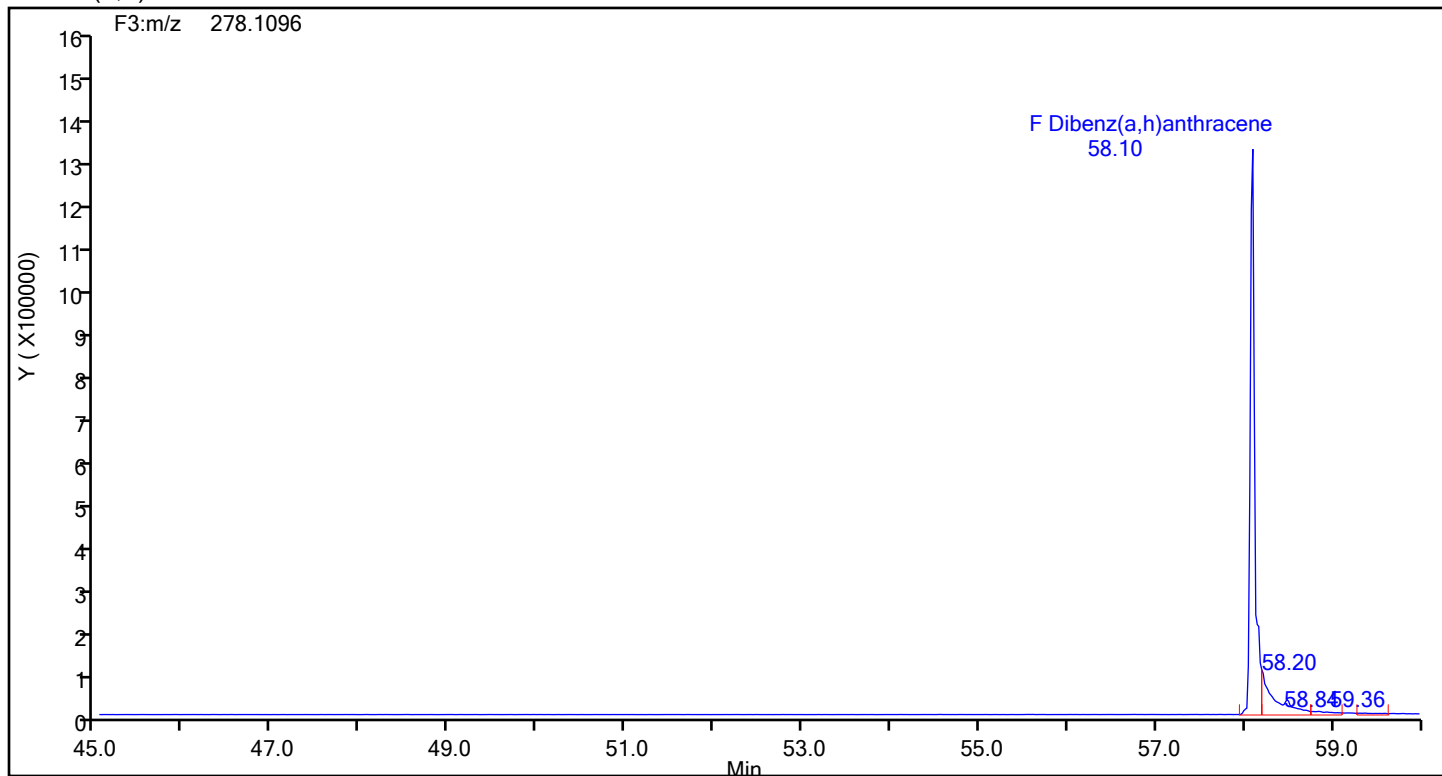
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

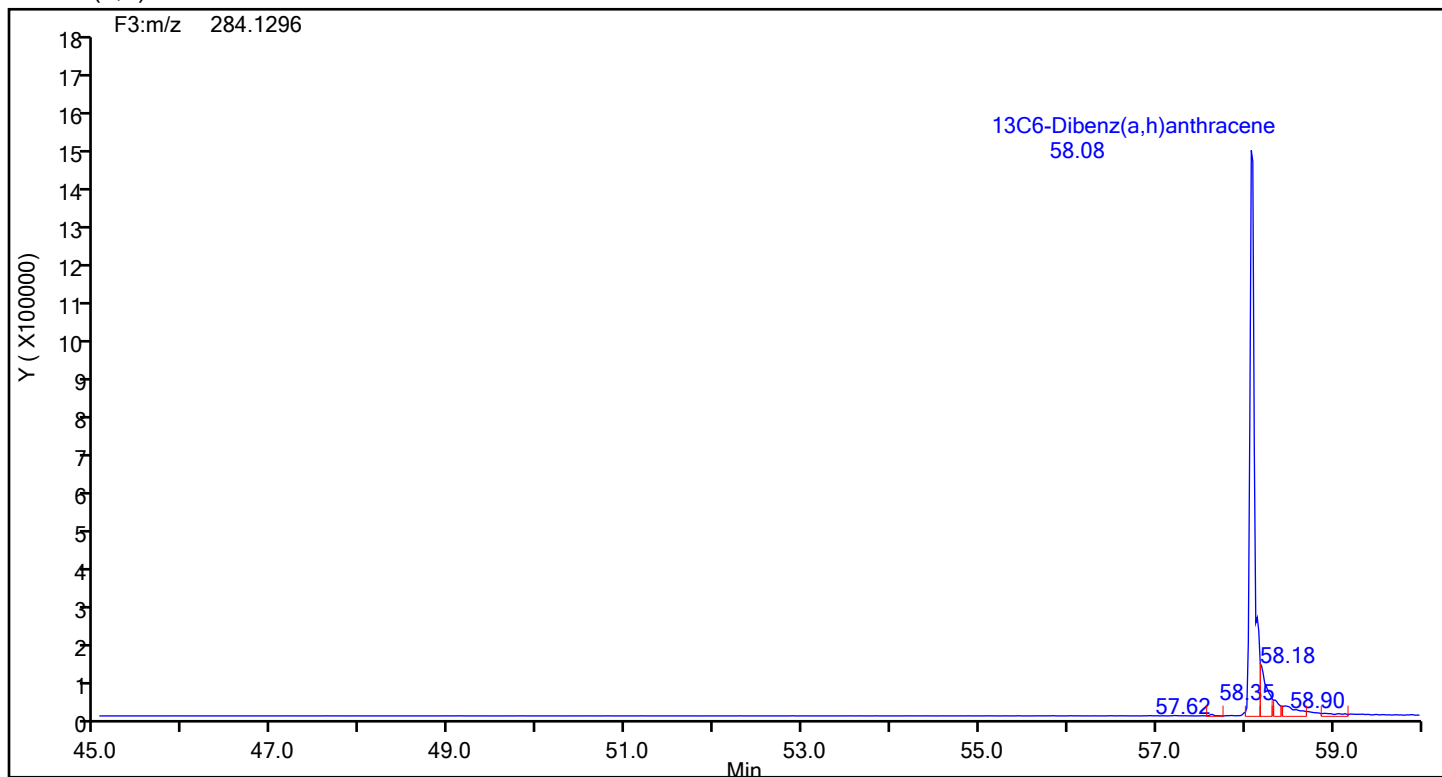
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic6.d  
Injection Date: 19-Jun-2024 21:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 6  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

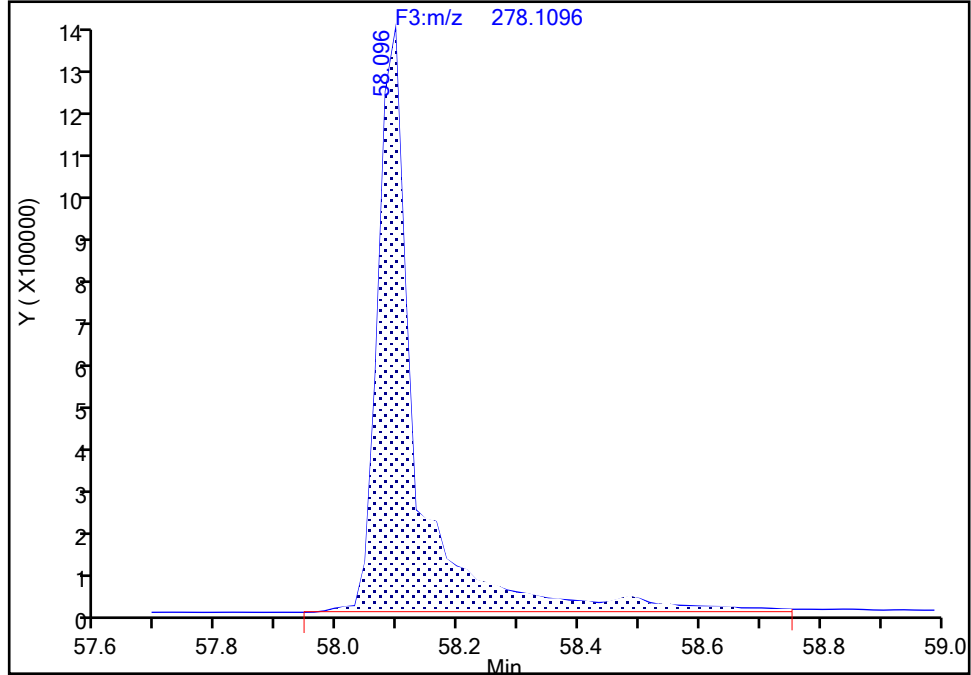
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic6.d  
Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**Dibenz(a,h)anthracene, CAS: 53-70-3**

Signal: 1

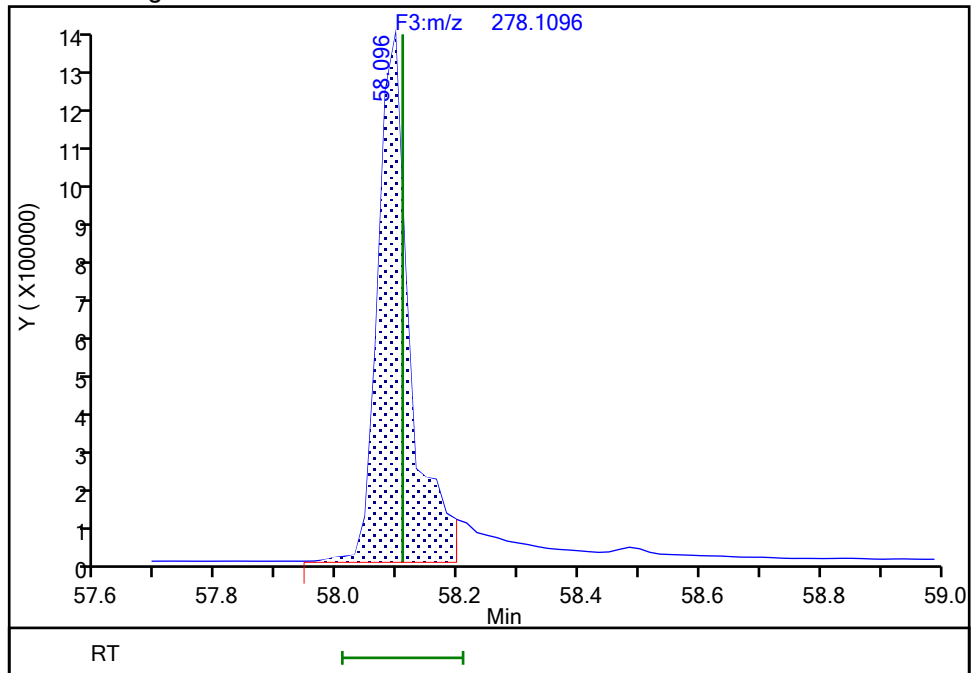
RT: 58.10  
Area: 5801087  
Amount: 91.156405  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.10  
Area: 4852505  
Amount: 76.851579  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:09 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

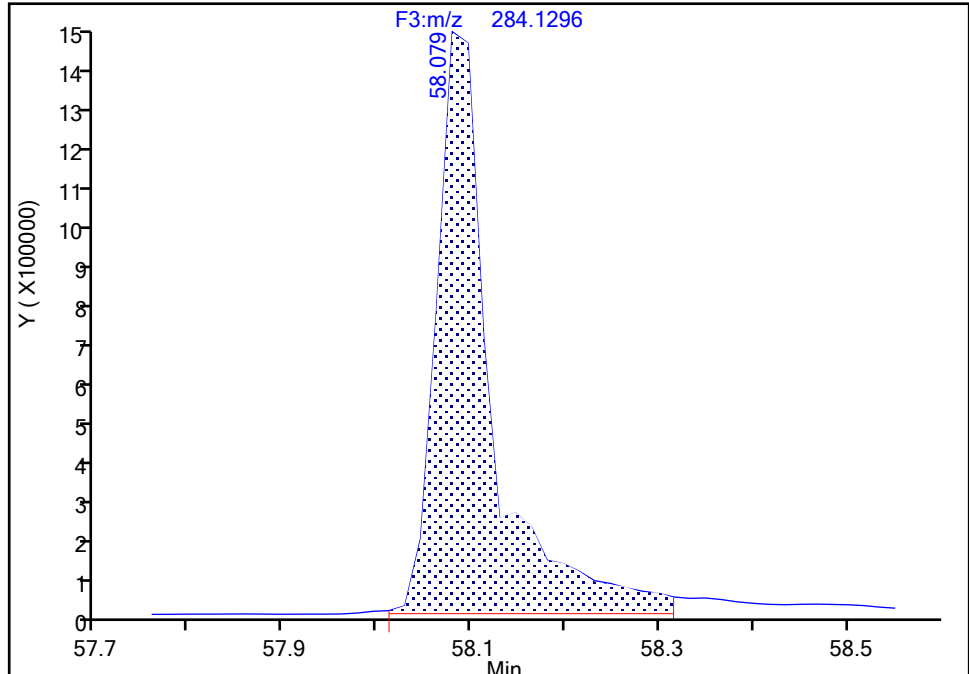
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619ic6.d  
Injection Date: 19-Jun-2024 21:56:00 Instrument ID: D3PAH  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Dibenz(a,h)anthracene, CAS: STL03360**

Signal: 1

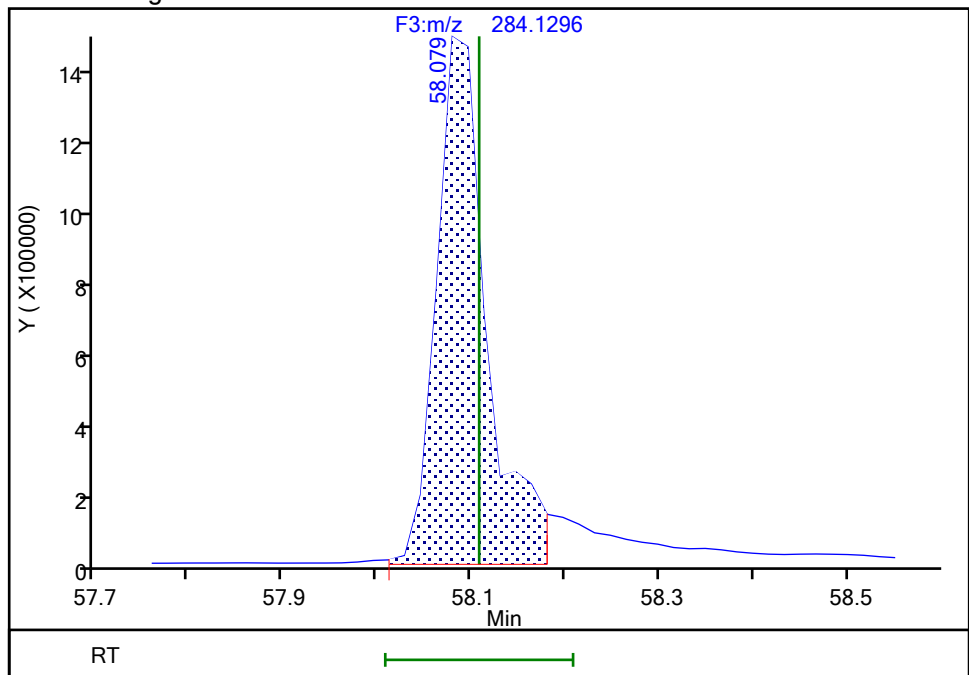
RT: 58.08  
Area: 6188850  
Amount: 94.535163  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.08  
Area: 5580937  
Amount: 91.018729  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
 Lims ID: IC L7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 19-Jun-2024 23:00:00 ALS Bottle#: 0 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033168-007  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Sublist: chrom-EPA\_23\_\_PAH\*sub1  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAL ICAL  
 Last Update: 20-Jun-2024 09:51:55 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:34:06

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	12167731		3.3746	100.5	100.5	0.005992	0.005992	101	
Naphthalene	11:33	29145441		1.2893	185.8	185.8	0.0302	0.0302	92.89	
D 13C6-2-Methylnaphthalene	13:51	5800321		1.6031	100.9	100.9	0.000868	0.000868	101	
2-Methylnaphthalene	13:52	13752752		1.2786	185.4	185.4	0.0170	0.0170	92.72	
D 13C6-Acenaphthylene	16:45	5949897		1.6520	100.4	100.4	0.001338	0.001338	100	
Acenaphthylene	16:45	15960871		2.3661	190.8	190.8	0.0260	0.0260	95.38	
* Acenaphthene-d10	17:19	3587138		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	3536065		0.9792	100.7	100.7	0.001672	0.001672	101	
Acenaphthene	17:26	8485152		1.2697	189.0	189.0	0.0254	0.0254	94.50	
D 13C6-Fluorene	19:44	3285389		0.8898	102.9	102.9	0.000460	0.000460	103	
Fluorene	19:44	7921341		1.2532	192.4	192.4	0.0279	0.0279	96.20	
D 13C6-Phenanthrene	25:07	4953590		0.5724	107.6	107.6	0.004222	0.004222	108	
Phenanthrene	25:07	10408886		1.1044	190.3	190.3	0.0318	0.0318	95.13	
\$ Anthracin-d10	25:20	3540252		0.4257	103.4	103.4	0.001074	0.001074	103	
D 13C6-Anthracene	25:27	3744430		0.4523	102.9	102.9	0.005343	0.005343	103	
Anthracene	25:27	9842331		1.3586	193.5	193.5	0.0340	0.0340	96.74	
D 13C6-Fluoranthrene	33:52	9842103		1.1994	102.0	102.0	0.0188	0.0188	102	
Fluoranthrene	33:53	21447849		1.1513	189.3	189.3	0.0142	0.0142	94.64	
* Pyrene-d10	35:25	8045261		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	11042272		1.3512	101.6	101.6	0.0128	0.0128	102	
Pyrene	35:34	22057676		1.0652	187.5	187.5	0.0142	0.0142	93.76	
\$ 13C6-Benzo(c)fluorene	39:17	4148931		0.5136	100.4	100.4	0.003816	0.003816	100	
D 13C6-Benzo(a)anthracene	46:06	8485215		1.5189	96.3	96.3	0.0132	0.0132	96.33	
Benzo[a]anthracene	46:07	15614632		0.9739	189.0	189.0	0.0283	0.0283	94.48	
D 13C6-Chrysene	46:22	9283915		1.6287	98.3	98.3	0.0123	0.0123	98.29	
Chrysene	46:23	17201644		0.9815	188.8	188.8	0.0268	0.0268	94.39	
D 13C6-Benzo(b)fluoranthene	54:38	8615715		1.4621	101.6	101.6	0.001318	0.001318	102	
Benzo[b]fluoranthene	54:39	18032275		1.1249	186.1	186.1	0.006779	0.006779	93.03	
\$ 13C12-Benzo(j)fluoranthene	54:40	7928880		1.3558	100.8	100.8	0.0149	0.0149	101	
D 13C6-Benzo(k)fluoranthene	54:46	10118186		1.7507	99.7	99.7	0.001101	0.001101	99.66	
Benzo[k]fluoranthene	54:46	21097665		1.1271	185.0	185.0	0.006303	0.006303	92.50	
* Benzo(e)pyrene-d12	55:30	5799368		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:34	9276322		1.6368	97.7	97.7	0.009757	0.009757	97.72	



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	17407219		1.0013	187.4	187.4	0.005897	0.005897	93.71	
Benzo[a]pyrene	55:43	18599410		1.1130	190.5	190.5	0.005858	0.005858	95.25	
D 13C4-Benzo(a)pyrene	55:43	8772202		1.5508	97.5	97.5	0.0103	0.0103	97.54	
D Perylene-d12	55:53	7004851		1.1917	101.4	101.4	0.0158	0.0158	101	
Perylene	55:57	19642615		1.4307	196.0	196.0	0.005442	0.005442	98.00	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	6349503		1.0218	107.1	107.1	0.009809	0.009809	107	M
Indeno[1,2,3-cd]pyrene	58:01	12310533		1.1249	172.3	172.3	0.006392	0.006392	86.17	
D 13C6-Dibenz(a,h)anthracene	58:06	6110020		1.0553	99.8	99.8	0.005219	0.005219	99.84	M
Dibenz(a,h)anthracene	58:06	12538607		1.1314	181.4	181.4	0.005625	0.005625	90.69	M
D 13C12-Benzo(ghi)perylene	58:30	7551974		1.2749	102.1	102.1	0.005184	0.005184	102	M
Benzo[g,h,i]perylene	58:31	17229589		1.2838	177.7	177.7	0.004988	0.004988	88.86	M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS5a\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Lims ID: IC L7  
Client ID:  
Sample Type: IC Calib Level: 7  
Inject. Date: 19-Jun-2024 23:00:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-007  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 20-Jun-2024 09:51:55 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:34:06

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	-1	0.666	12167731	4165041	99	247	42071		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	29145441	9997251	649	1622	15404		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	5800321	2698809	7	17	385544		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.001	13752752	6450856	235	587	27450		
13C6-Acenaphthylene											
158.0828	16:45	16:45	-1	0.966	5949897	2135616	11	27	194147		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	15960871	5725962	305	762	18774		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3587138	1221597	2	5	610799		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	3536065	1238157	8	20	154770		
Acenaphthene											
154.0783	17:26	17:27	-1	1.000	8485152	2885513	160	400	18034		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.139	3285389	978999	2	5	489500		
Fluorene											
166.0783	19:44	19:45	-1	1.000	7921341	2350494	137	342	17157		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	4953590	1157531	15	37	77169		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	10408886	2455362	163	407	15064		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	3540252	830170	3	7	276723		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	3744430	880289	15	37	58686		
Anthracene											
178.0783	25:27	25:28	-1	1.000	9842331	2230606	163	407	13685		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	9842103	1935757	138	345	14027		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	21447849	4259881	127	317	33542		
Pyrene-d10											
212.1404	35:25	35:27	-1		8045261	1530843	49	122	31242		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	11042272	2101643	106	265	19827		
Pyrene											
202.0783	35:34	35:35	-1	1.000	22057676	4203969	127	317	33102		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	4148931	752708	12	30	62726		
13C6-Benzo(a)anthracene											
234.1140	46:06	46:07	-2	1.301	8485215	1511187	146	365	10351		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	15614632	2786413	167	417	16685		
13C6-Chrysene											
234.1140	46:22	46:24	-2	1.309	9283915	1587692	146	365	10875		
Chrysene											
228.0939	46:23	46:25	-2	1.000	17201644	2935186	167	417	17576		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	8615715	2255354	14	35	161097		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	18032275	4894763	69	172	70939		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	7928880	2019955	147	367	13741		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	10118186	2421215	14	35	172944		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	21097665	5269334	69	172	76367		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		5799368	1815765	137	342	13254		
13C4-Benzo(e)pyrene											
256.1073	55:34	55:35	-2	1.001	9276322	2912882	116	290	25111		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	17407219	5763329	69	172	83527		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	18599410	5665848	69	172	82114		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	8772202	2638078	116	290	22742		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	7004851	2209250	137	342	16126		
Perylene											
252.0939	55:57	55:58	-1	1.001	19642615	6384987	69	172	92536		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	0	1.046	6349503	1946937	73	182	26670		M
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-1	1.000	12310533	3867925	56	140	69070		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	0	1.047	6110020	1681244	40	100	42031		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	0	1.000	12538607	3613228	43	107	84029		M
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	7551974	2186484	48	120	45552		M
Benzo[g,h,i]perylene											
276.0939	58:31	58:31	0	1.000	17229589	4719941	56	140	84285		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS5a\_00002

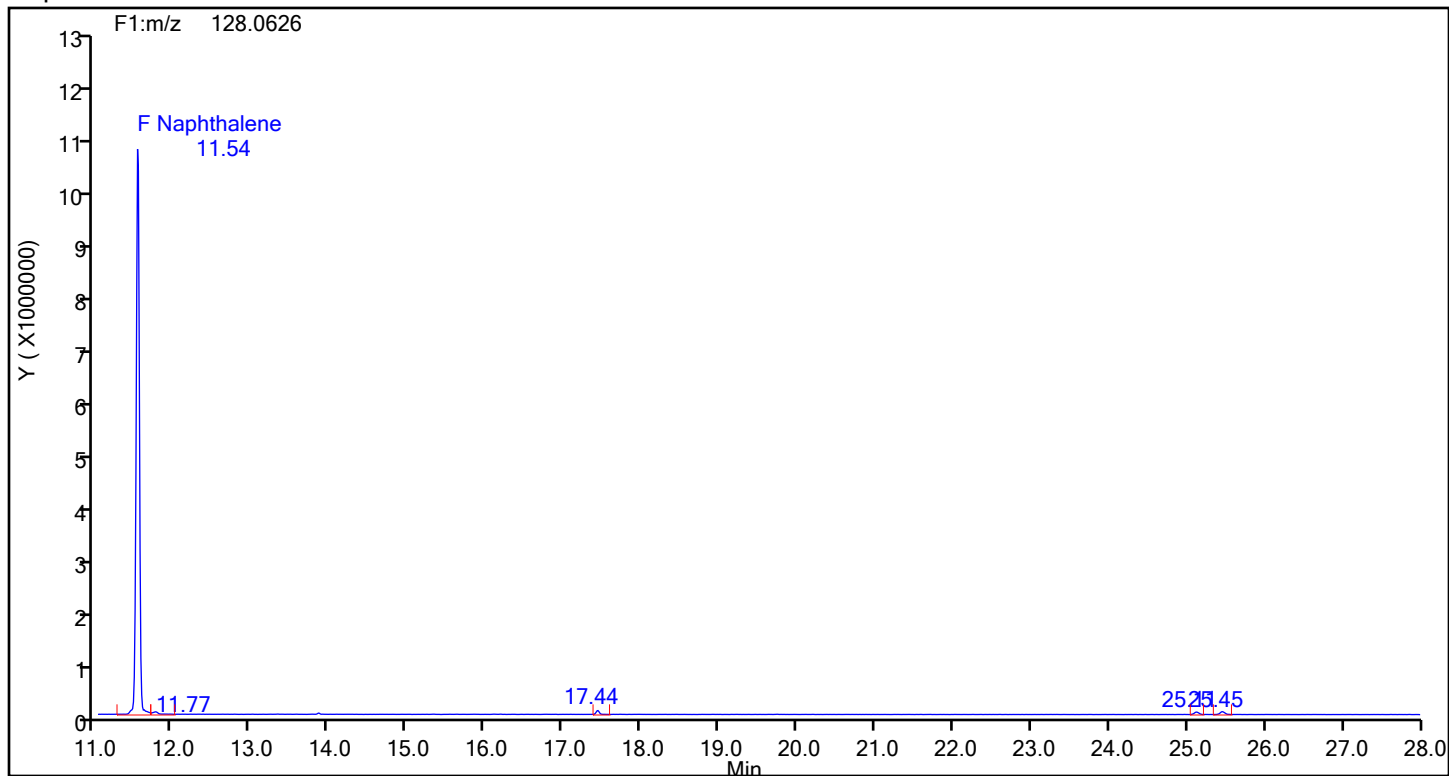
Amount Added: 20.00

Units: uL

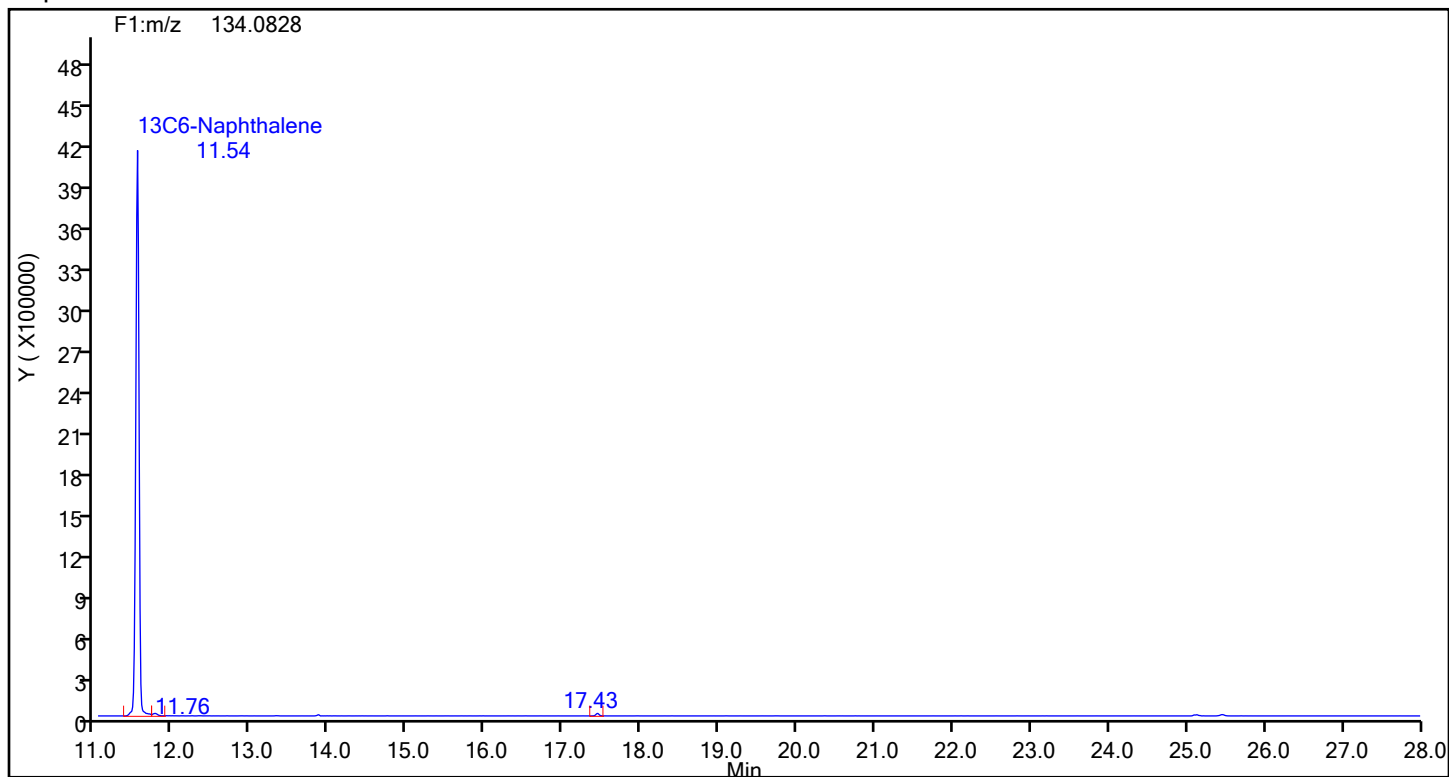
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



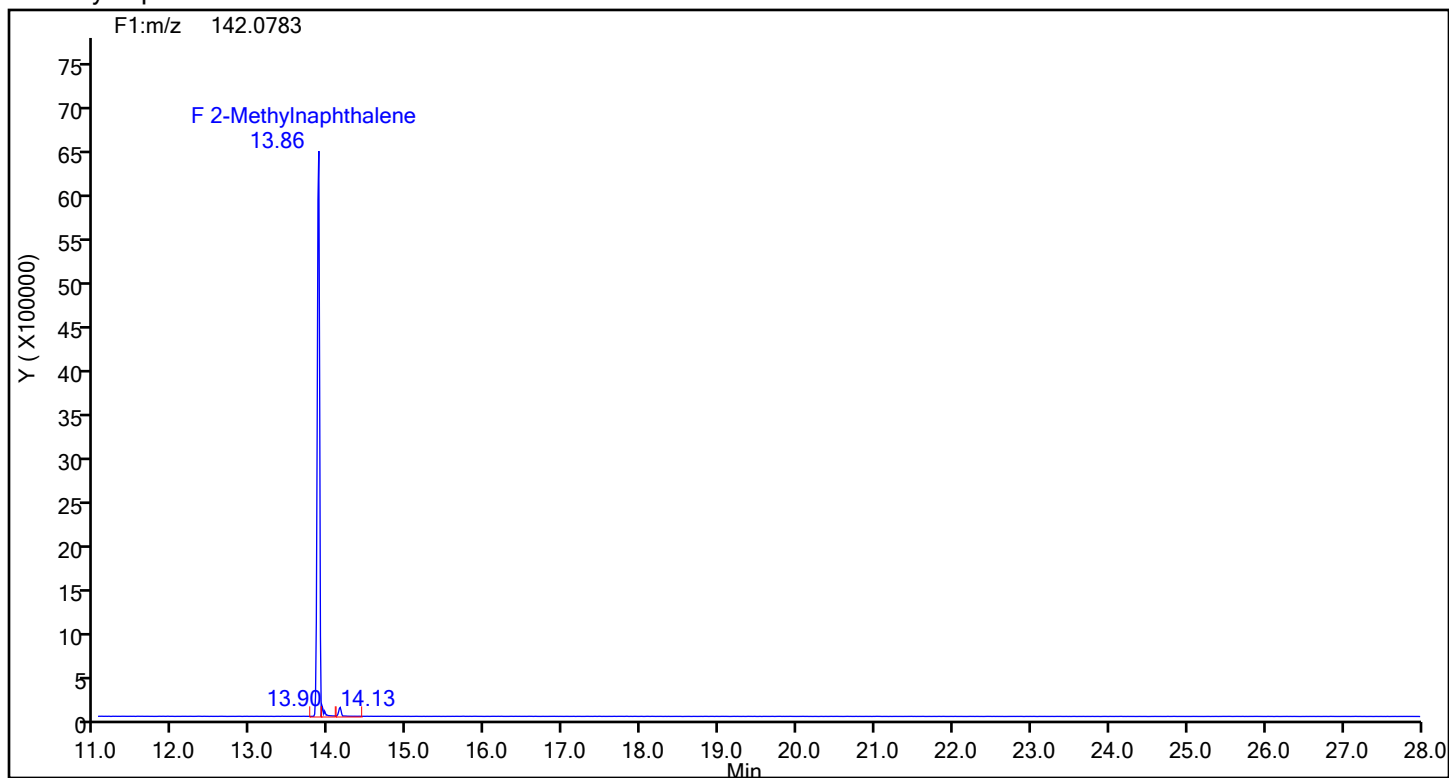
## Naphthalene Standards



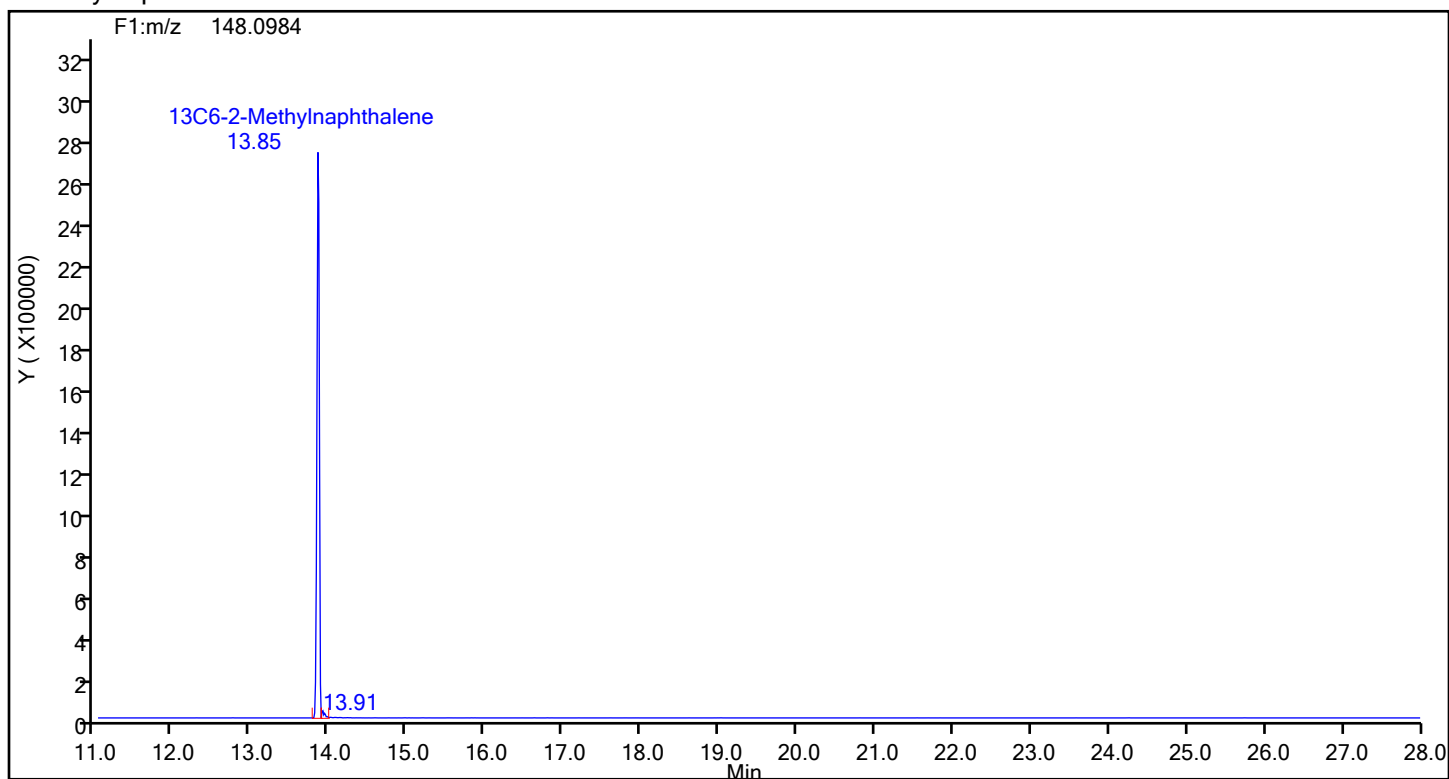
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



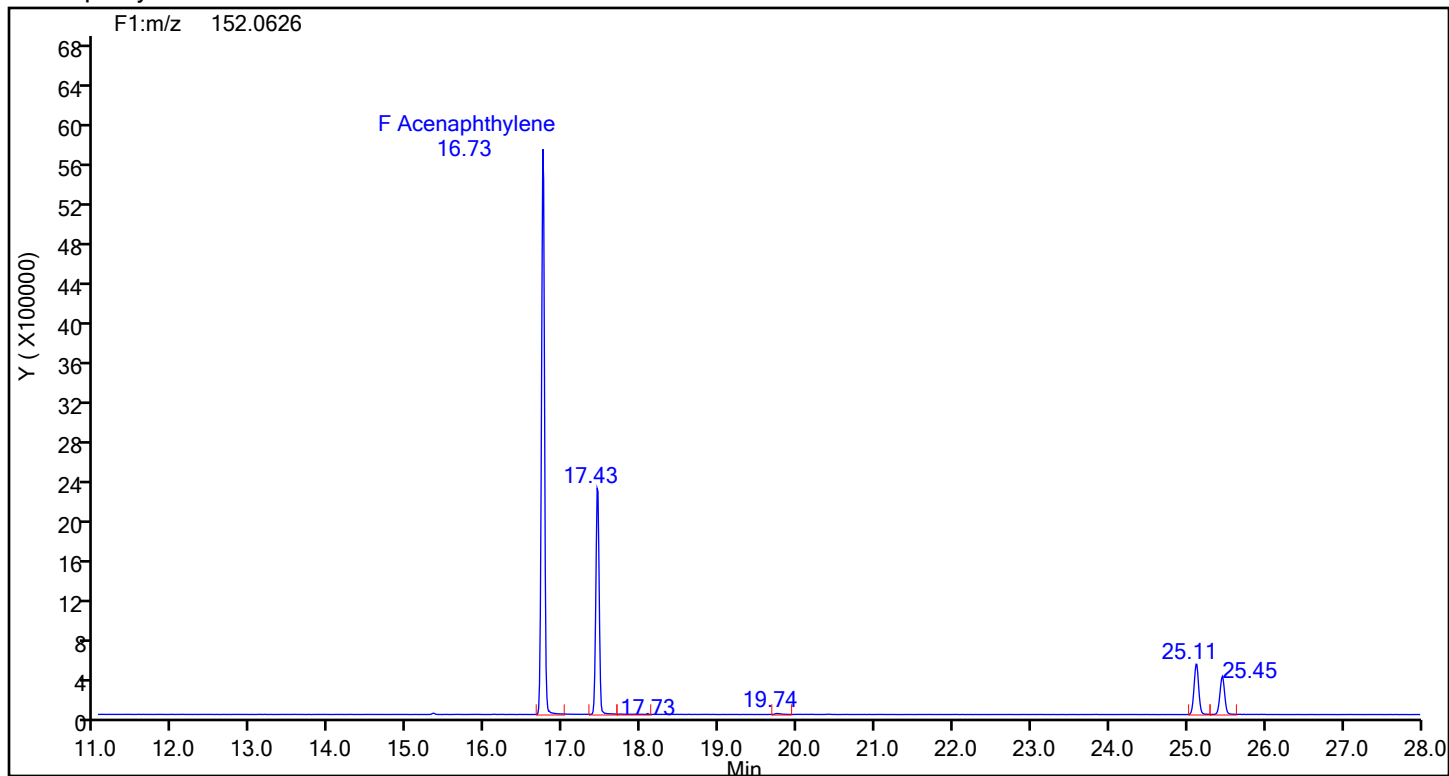
## 2-Methylnaphthalene Standards



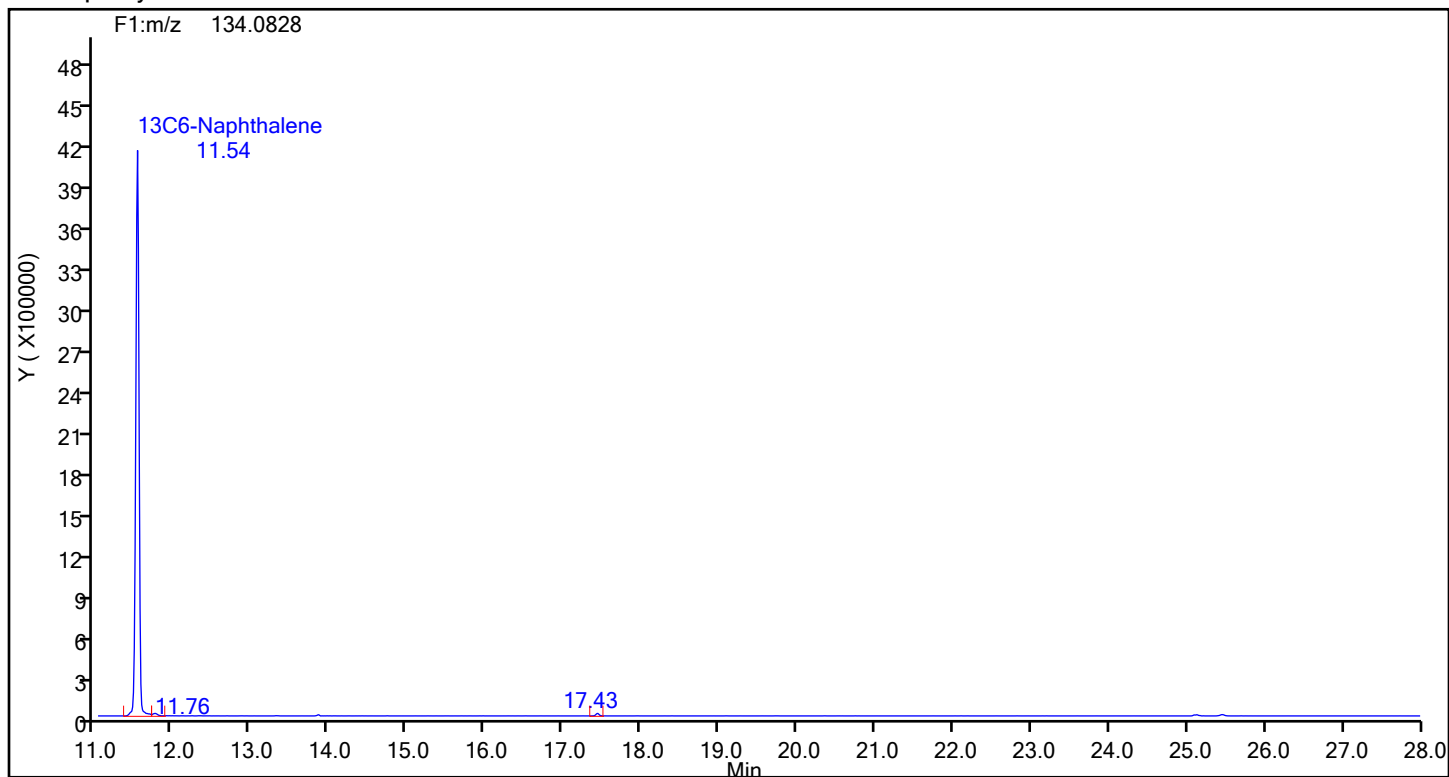
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



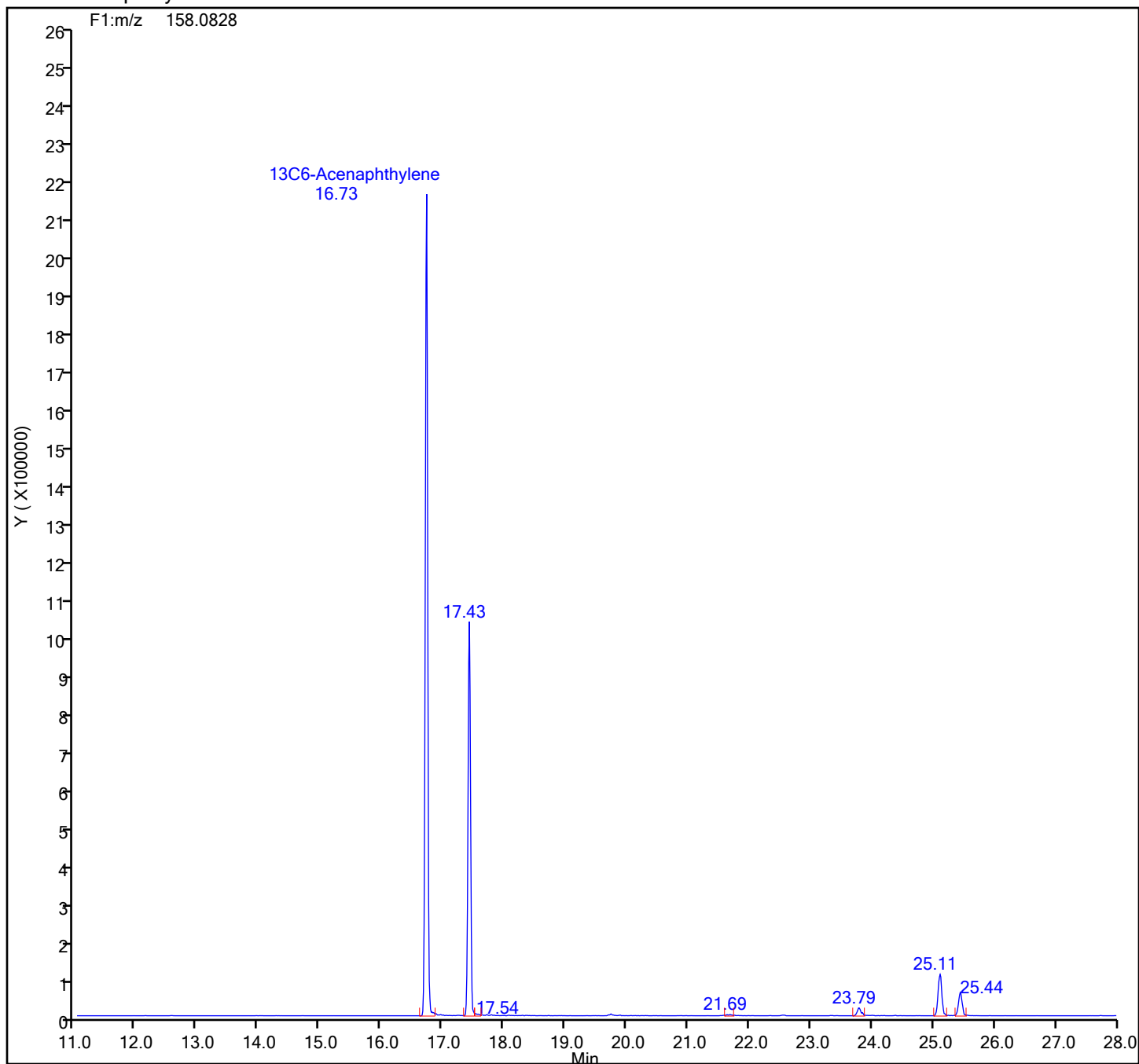
## Acenaphthylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Acenaphthylene Standards

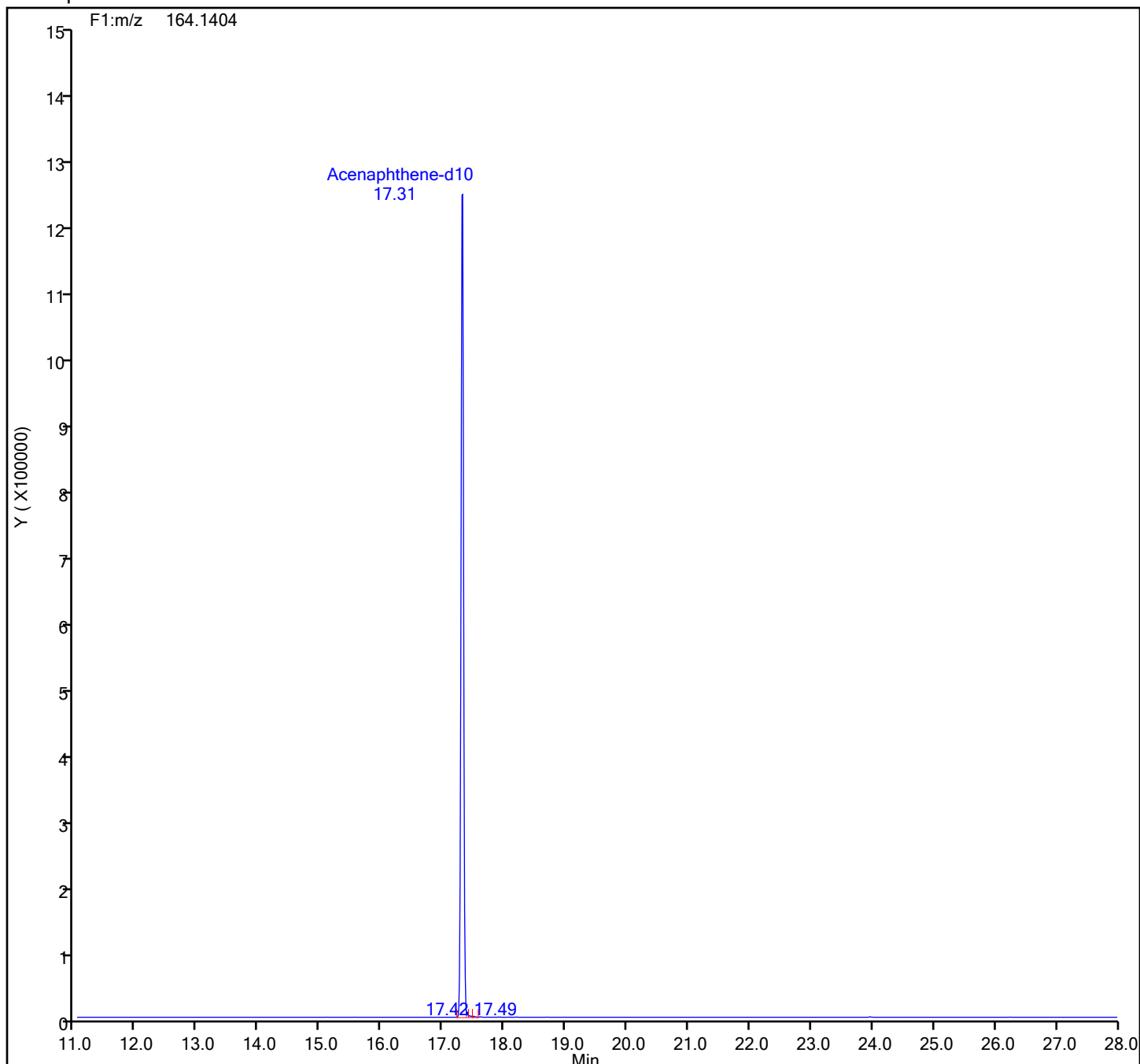




## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

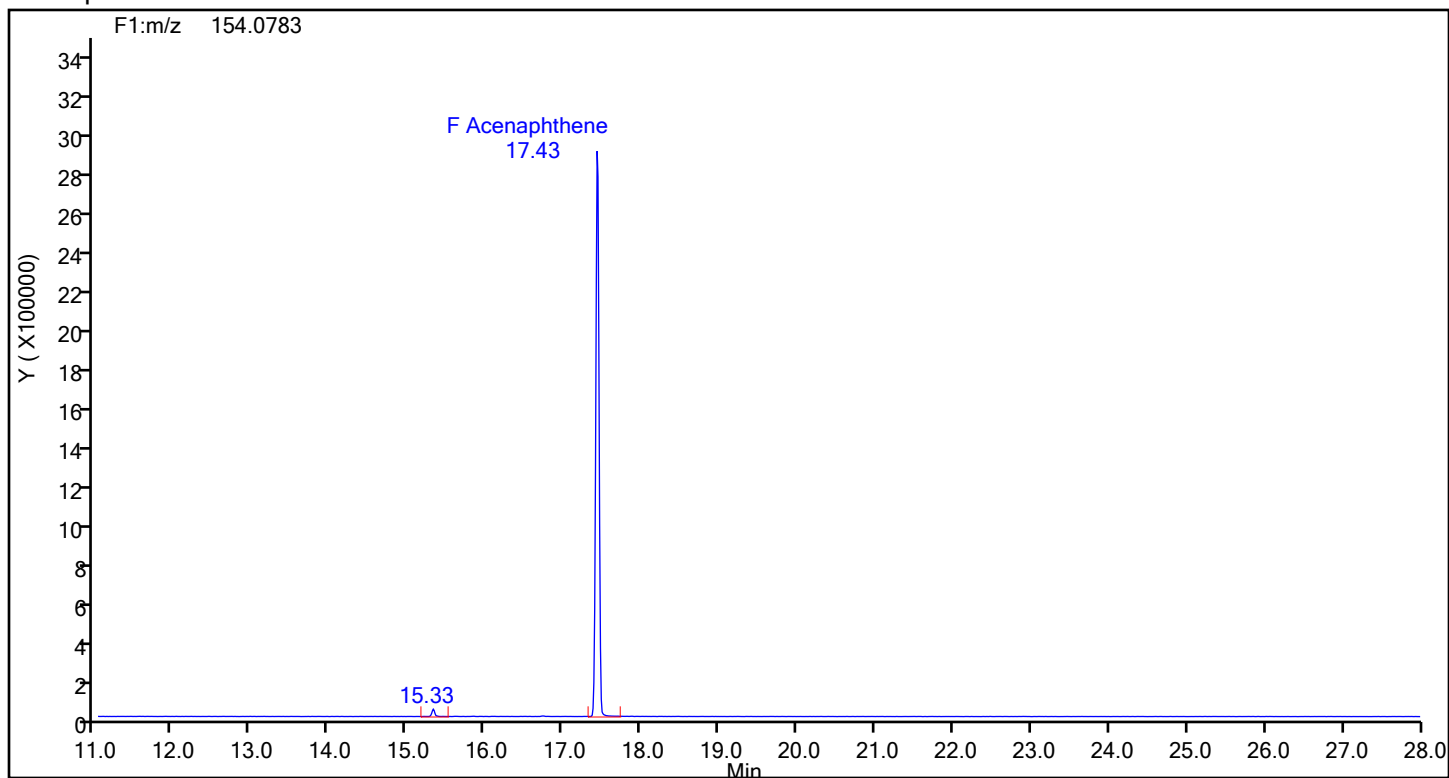
## Acenaphthene-d10 Standards



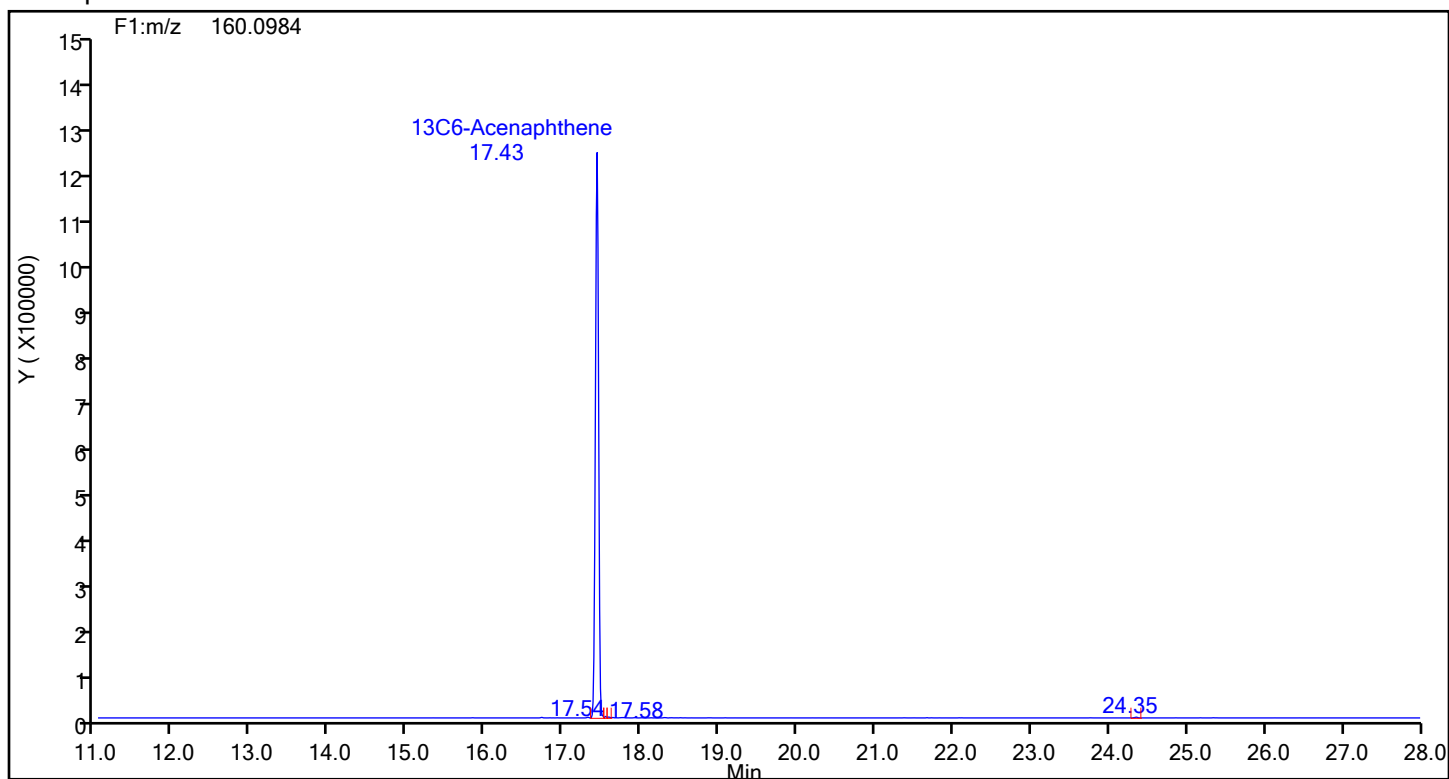
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



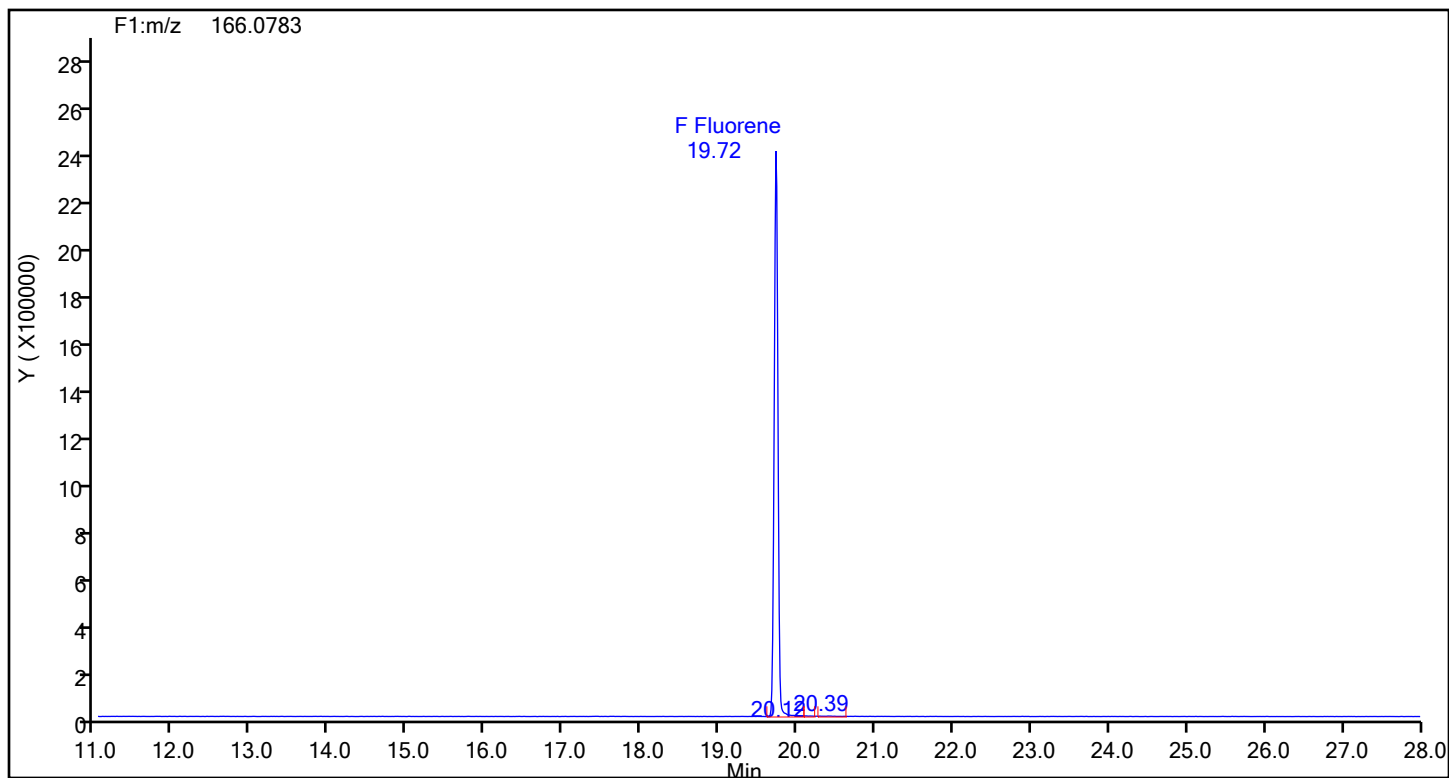
## Acenaphthene Standards



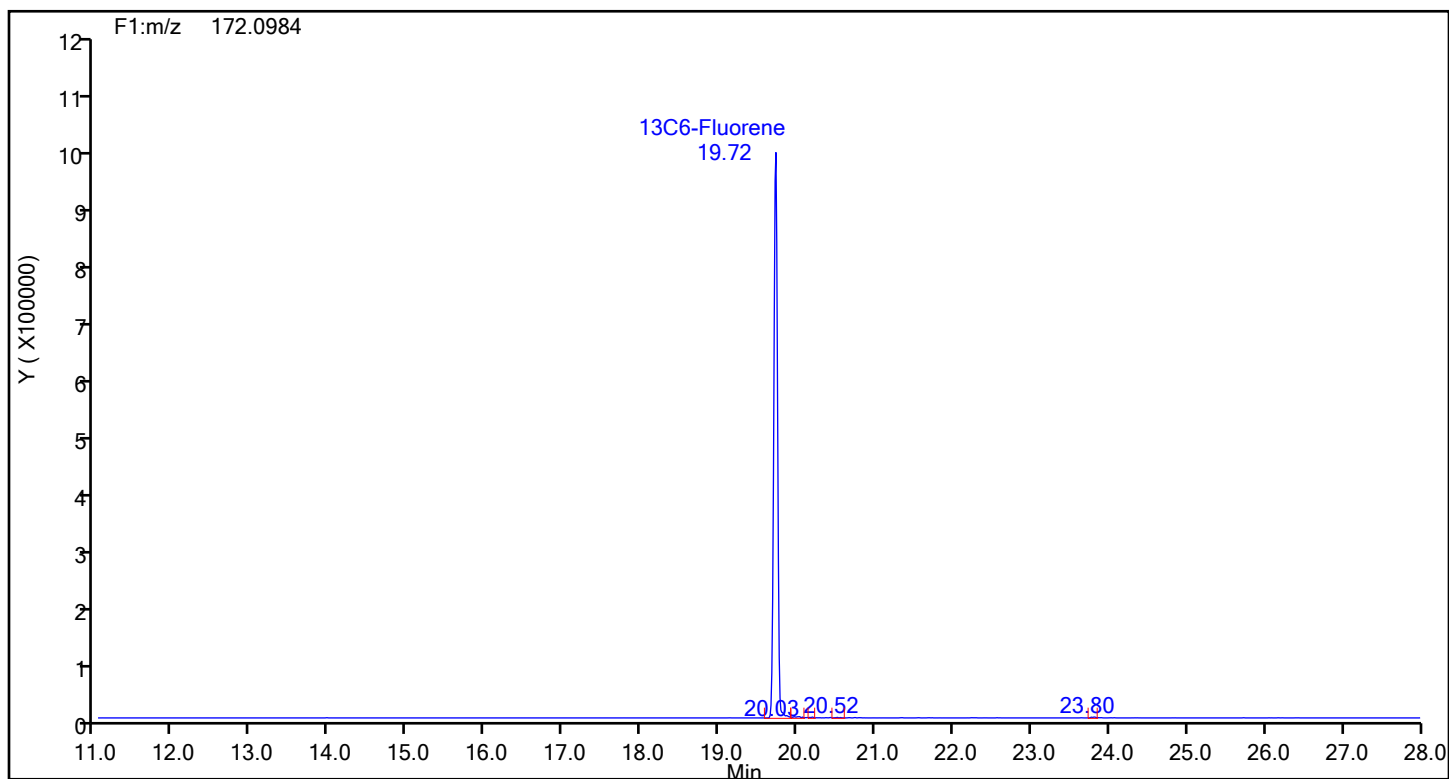
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



## Fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d

Injection Date: 19-Jun-2024 23:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

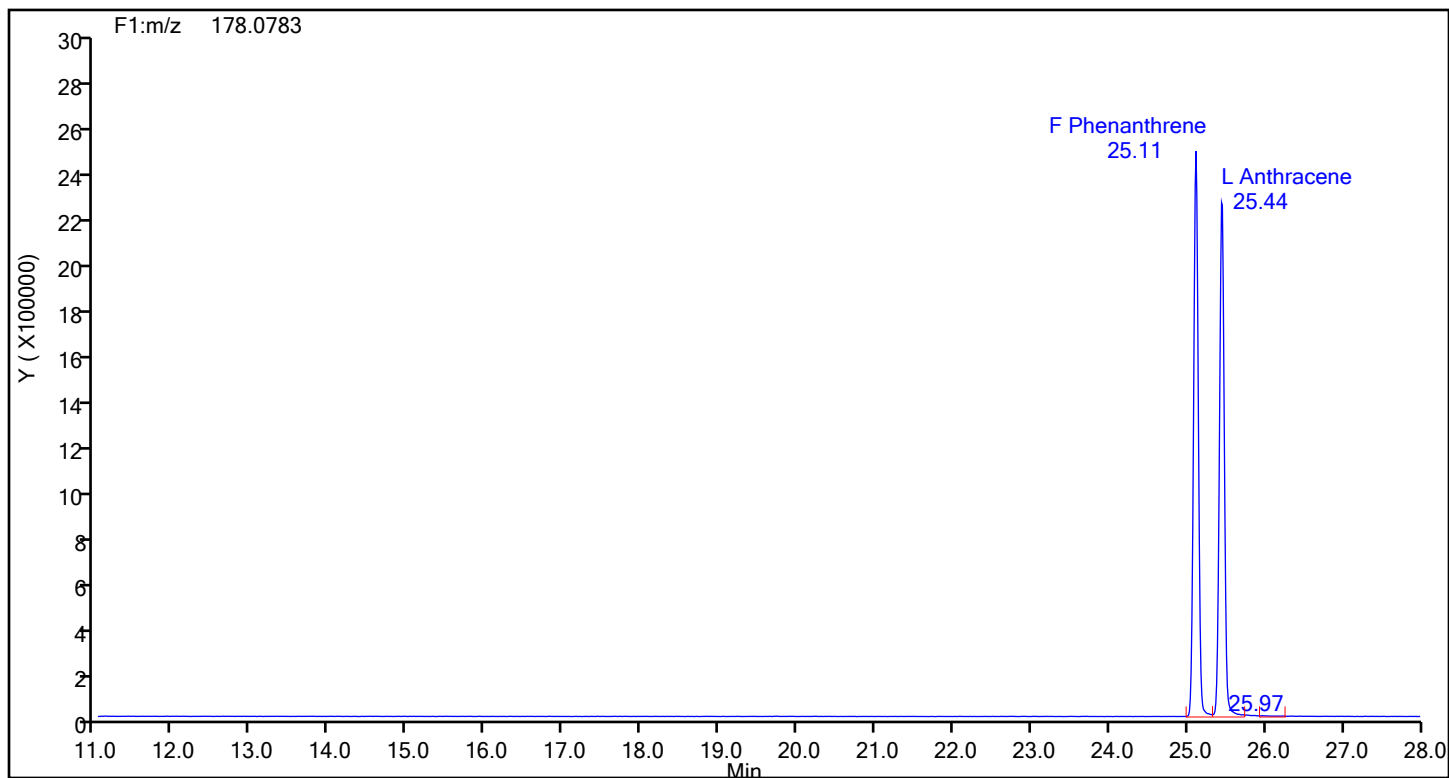
Worklist#: 87843

Sample Line#: 7

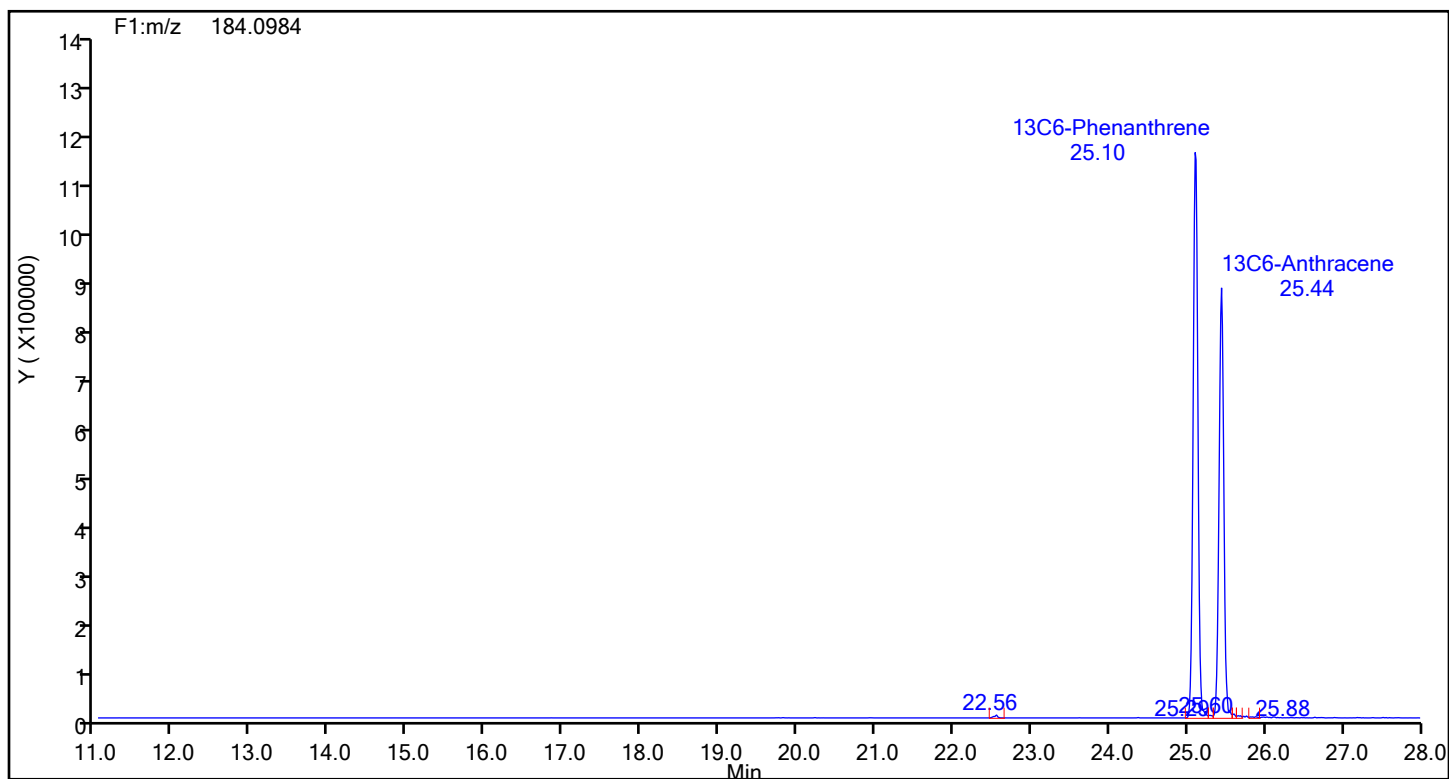
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Phenanthrene

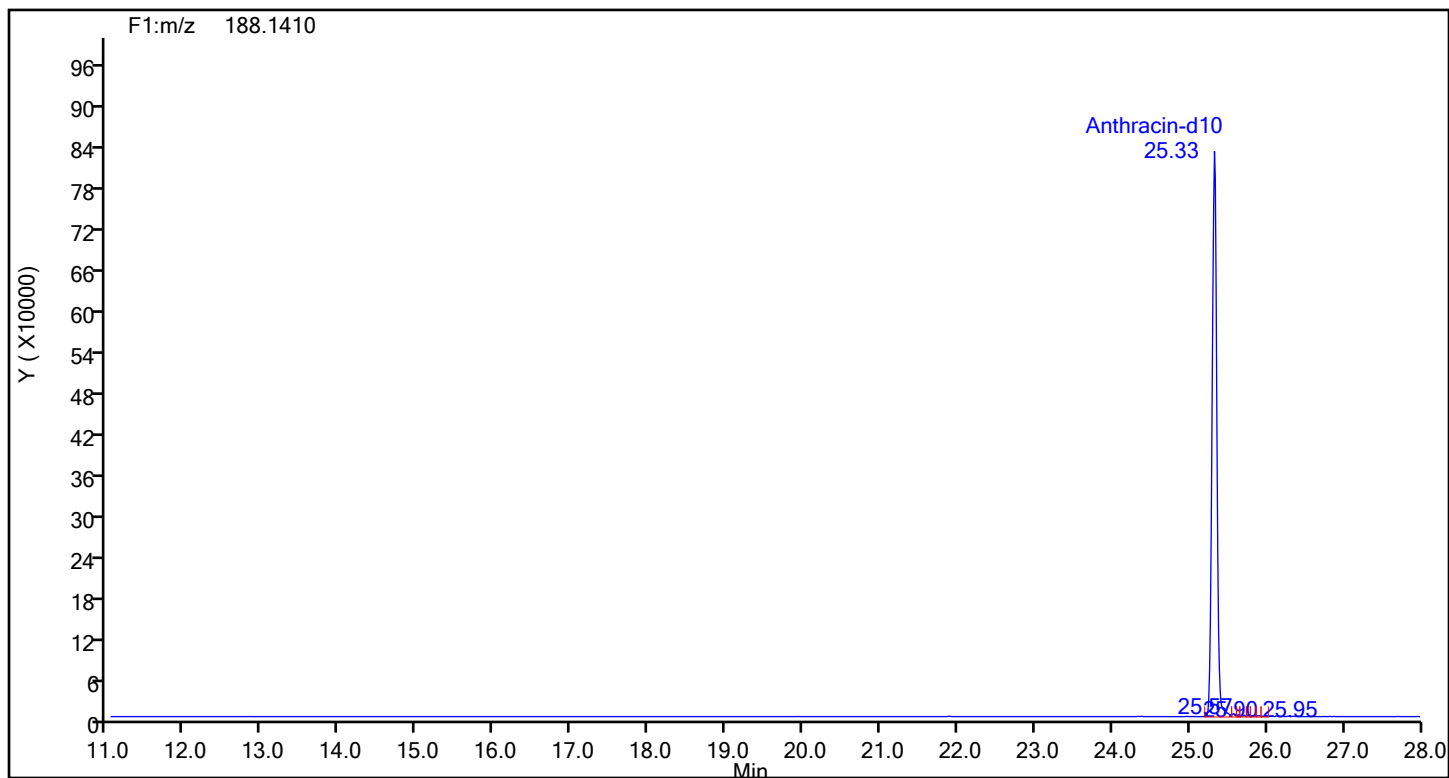


## Phenanthrene Standards

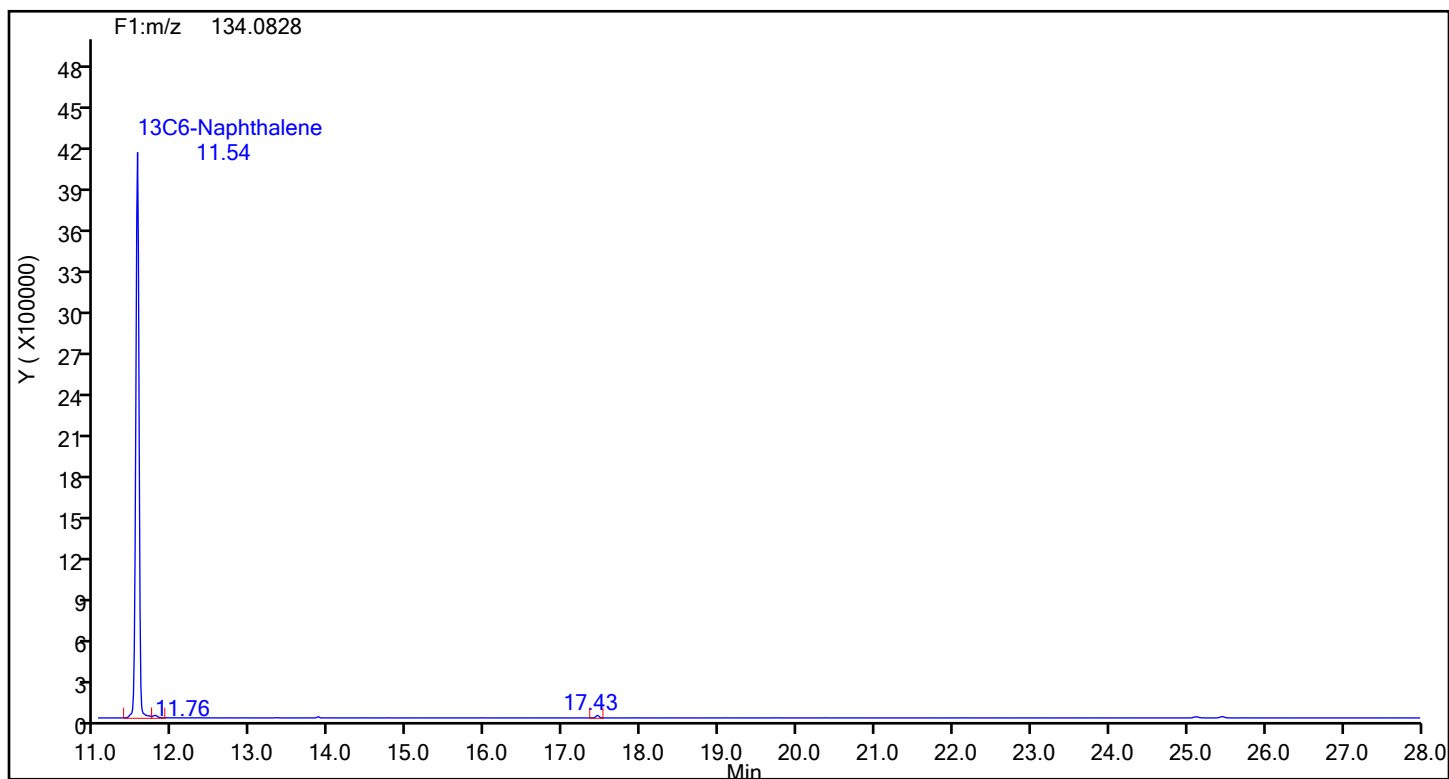


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

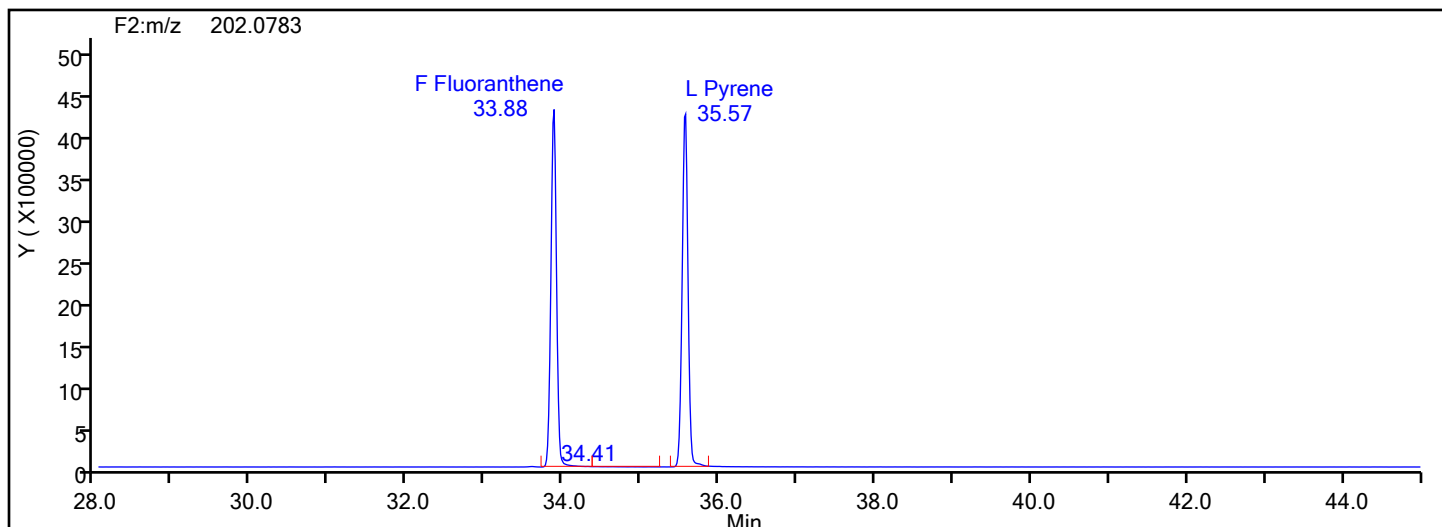


## Anthracin-d10 Standards

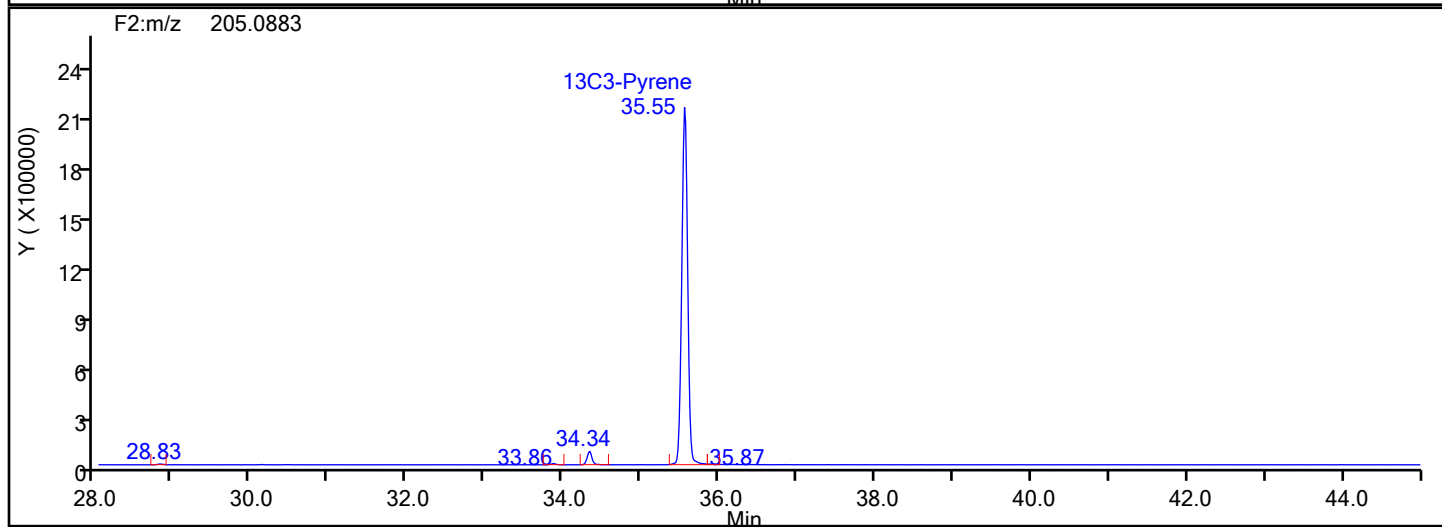
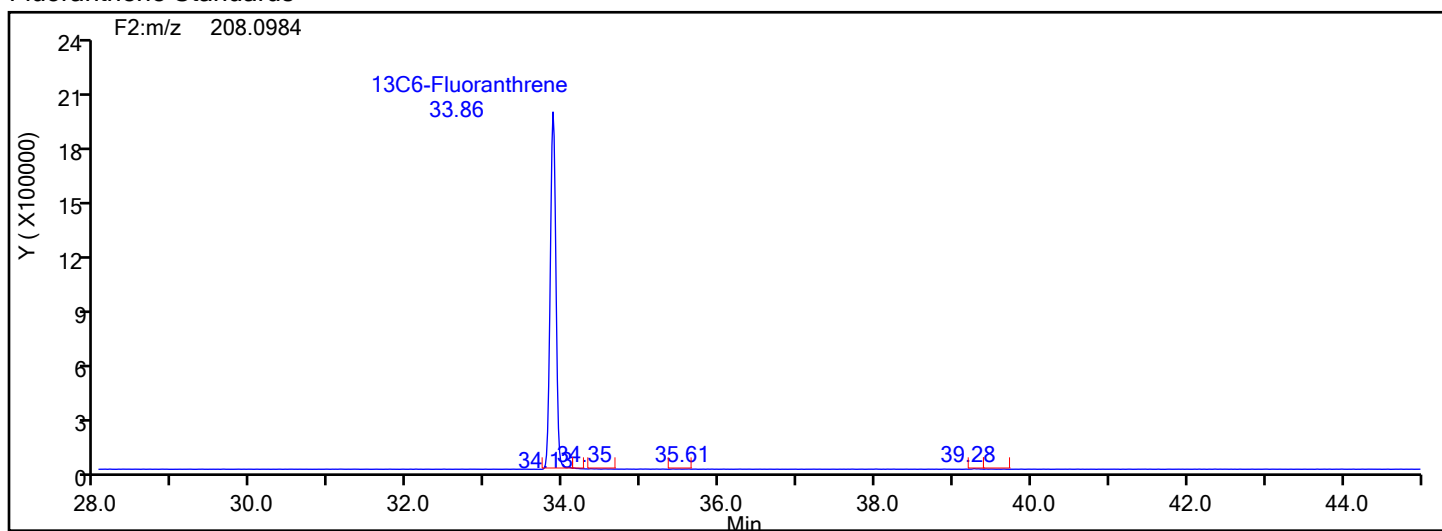


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



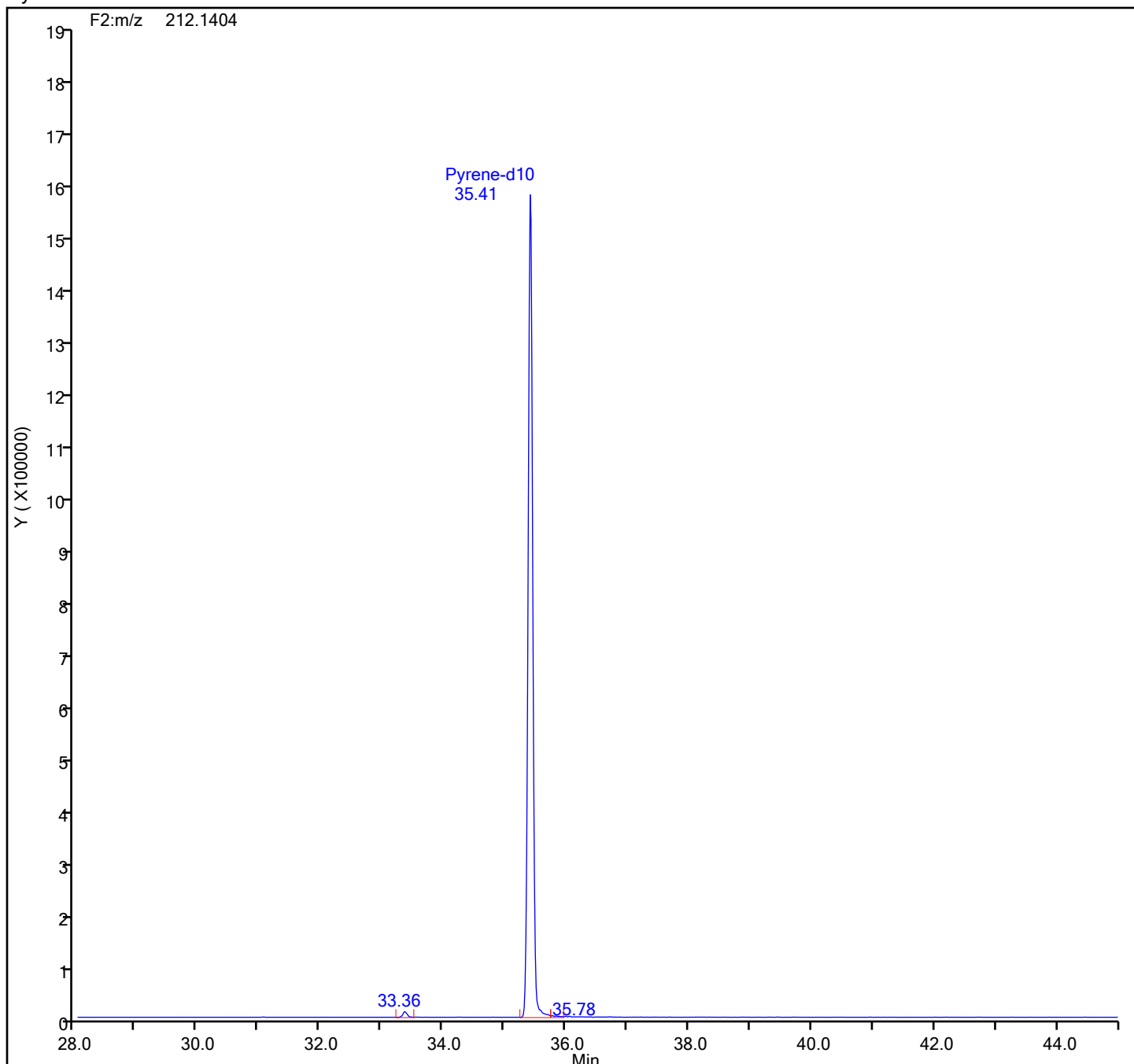
## Fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

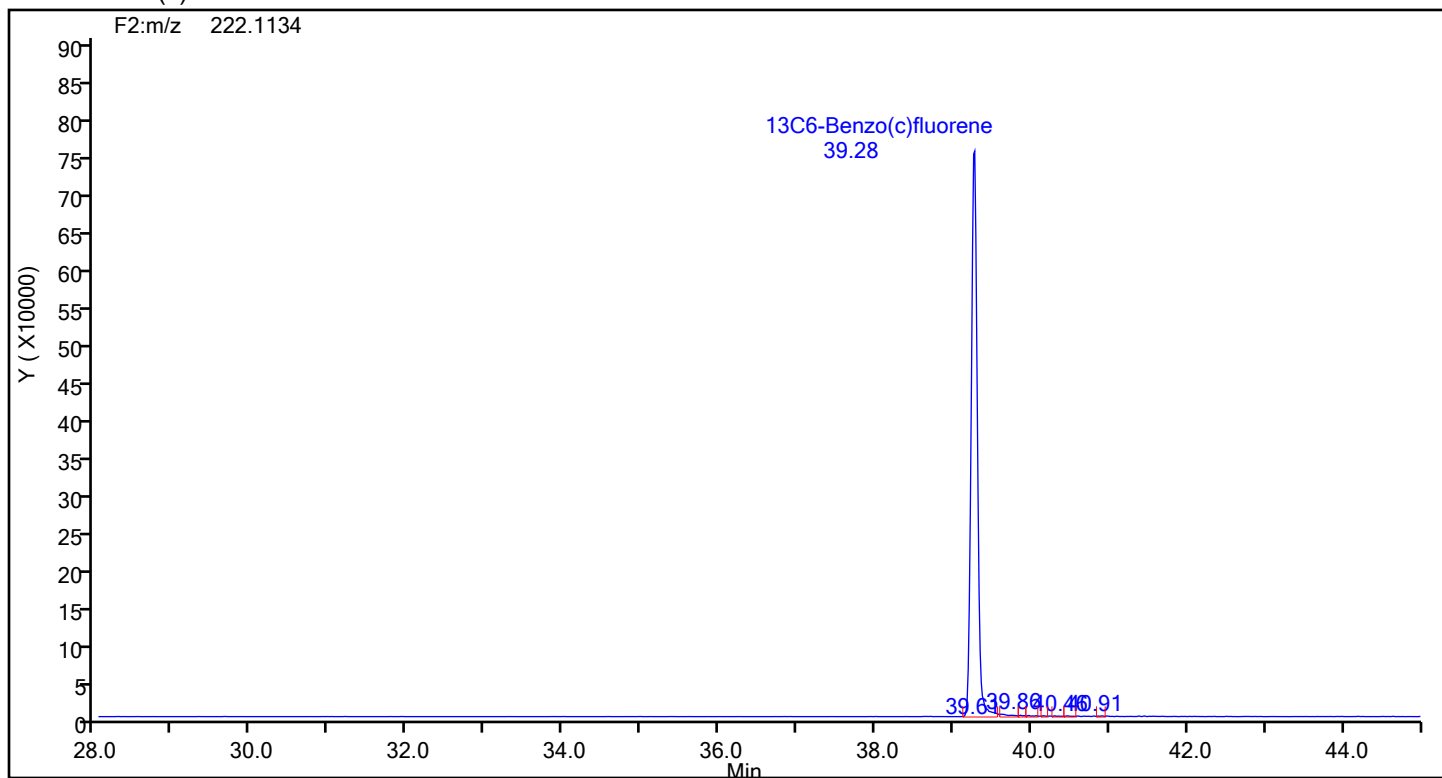
## Pyrene-d10 Standards



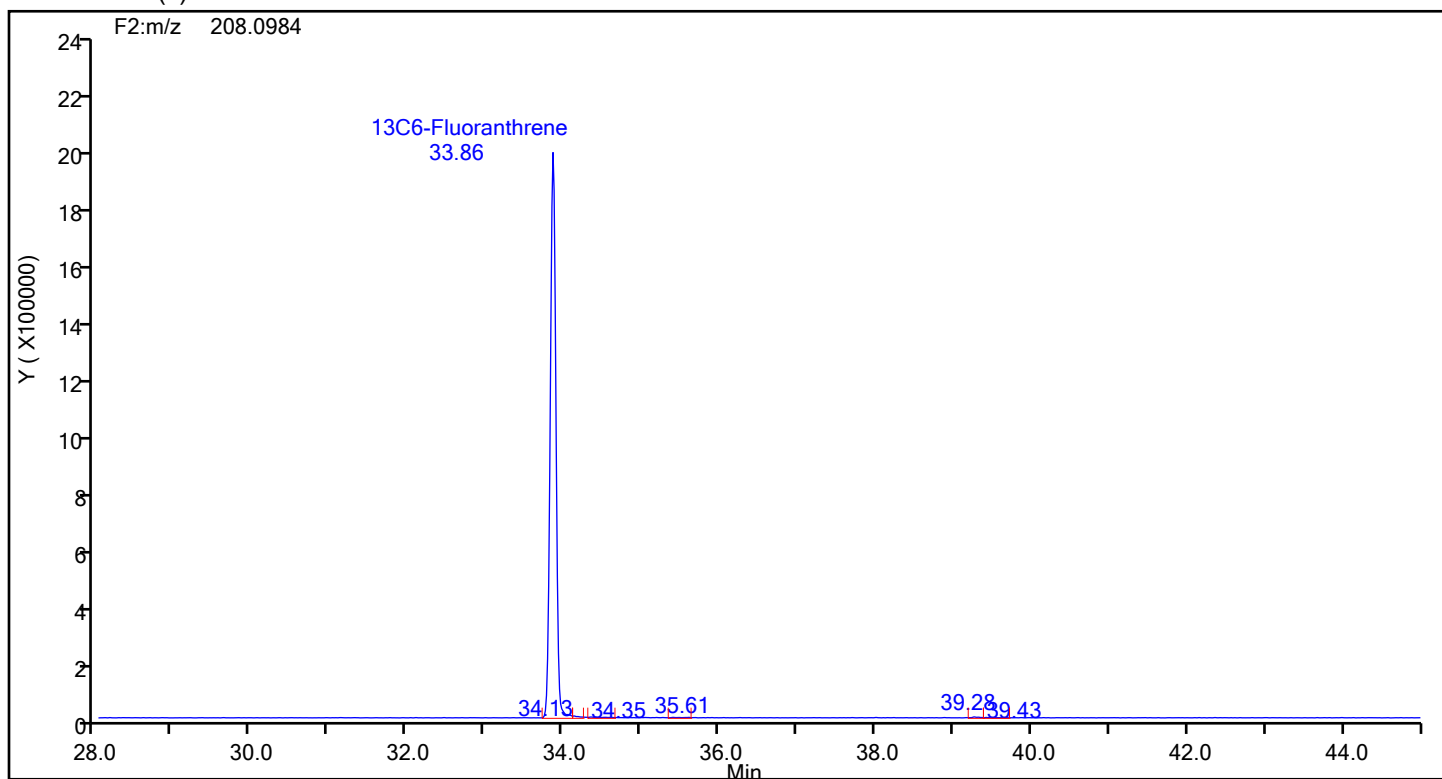
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



## 13C6-Benzo(c)fluorene Standards

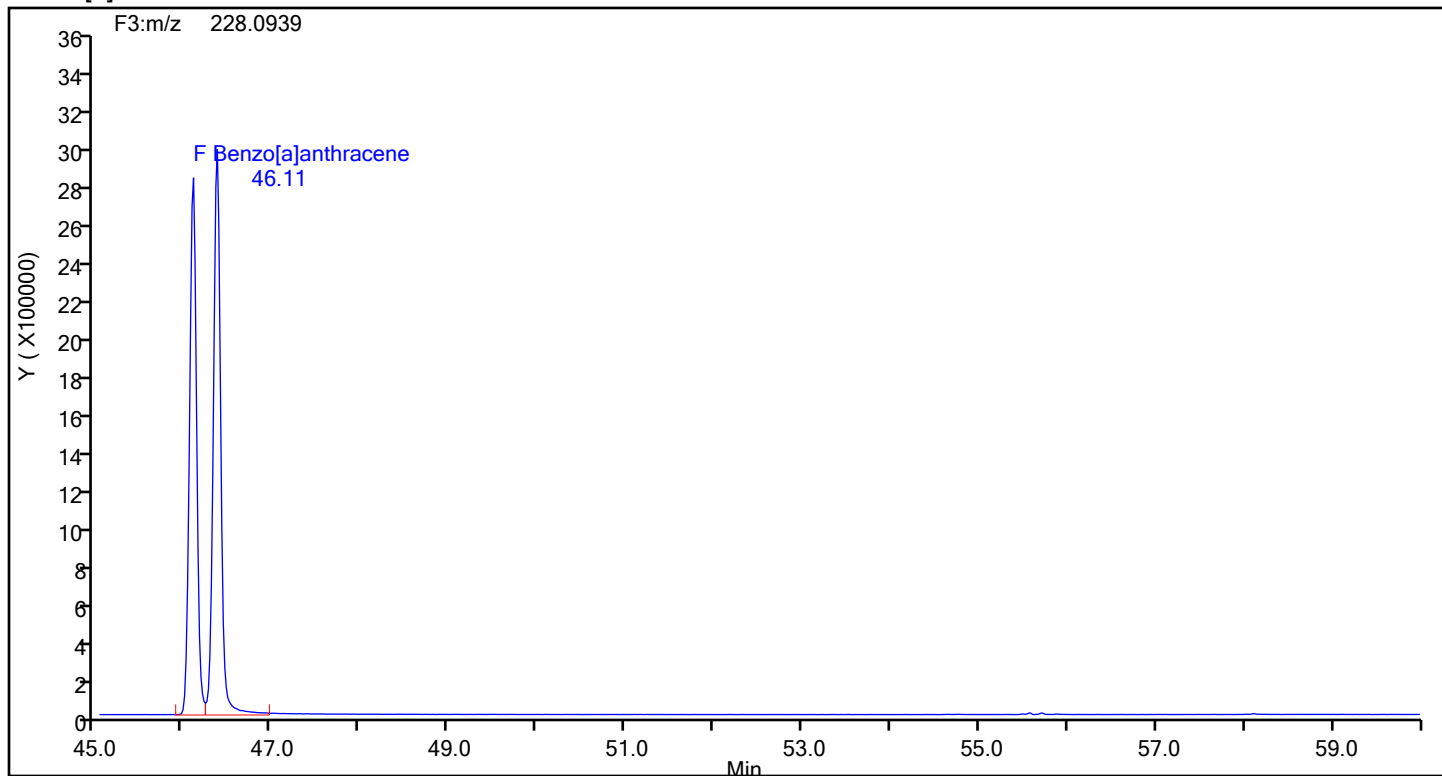




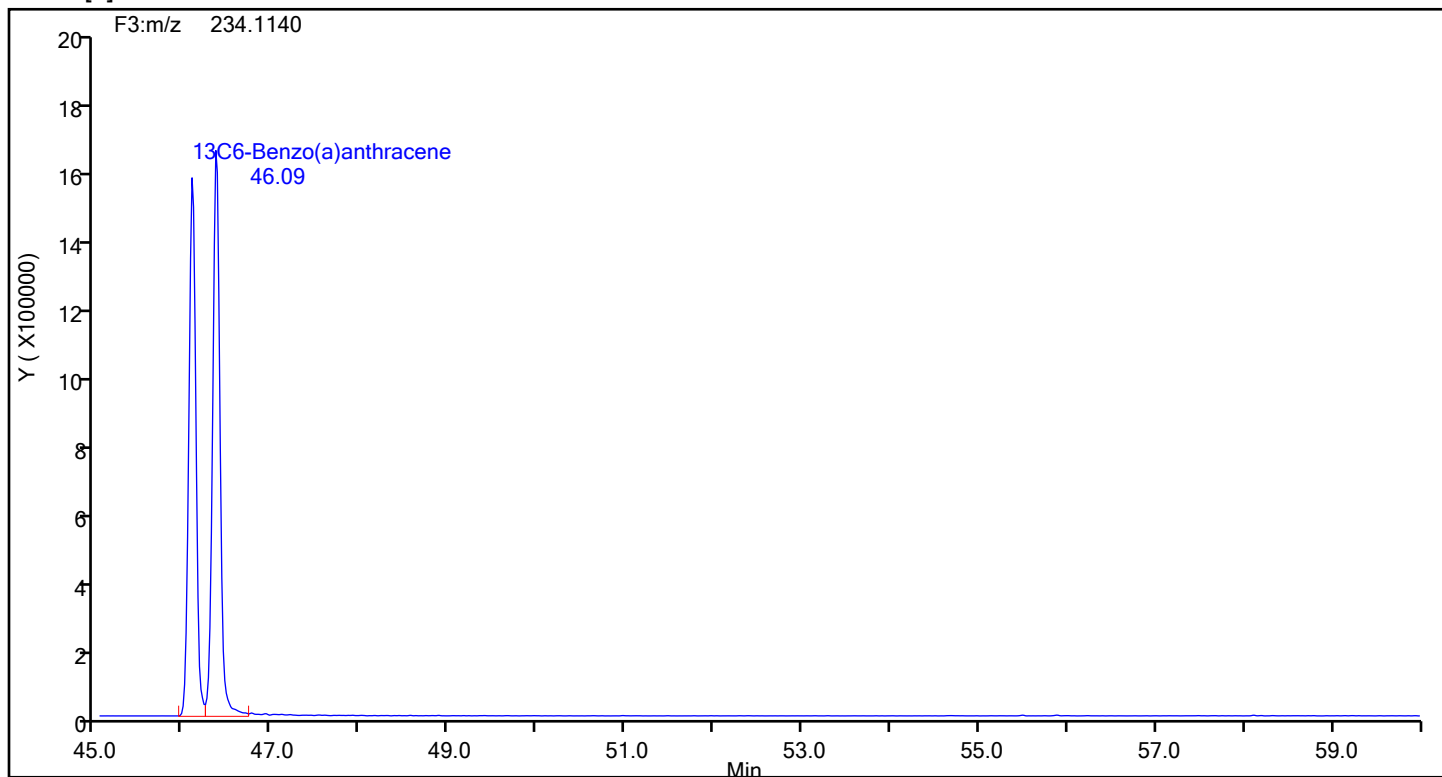
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



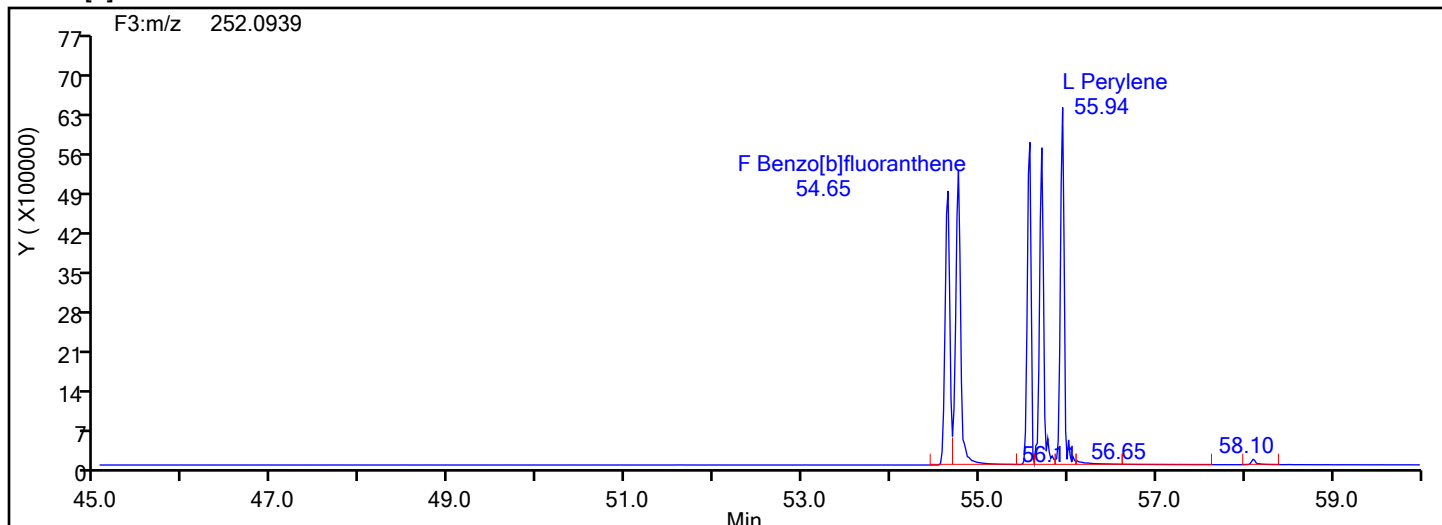
## Benzo[a]anthracene Standards



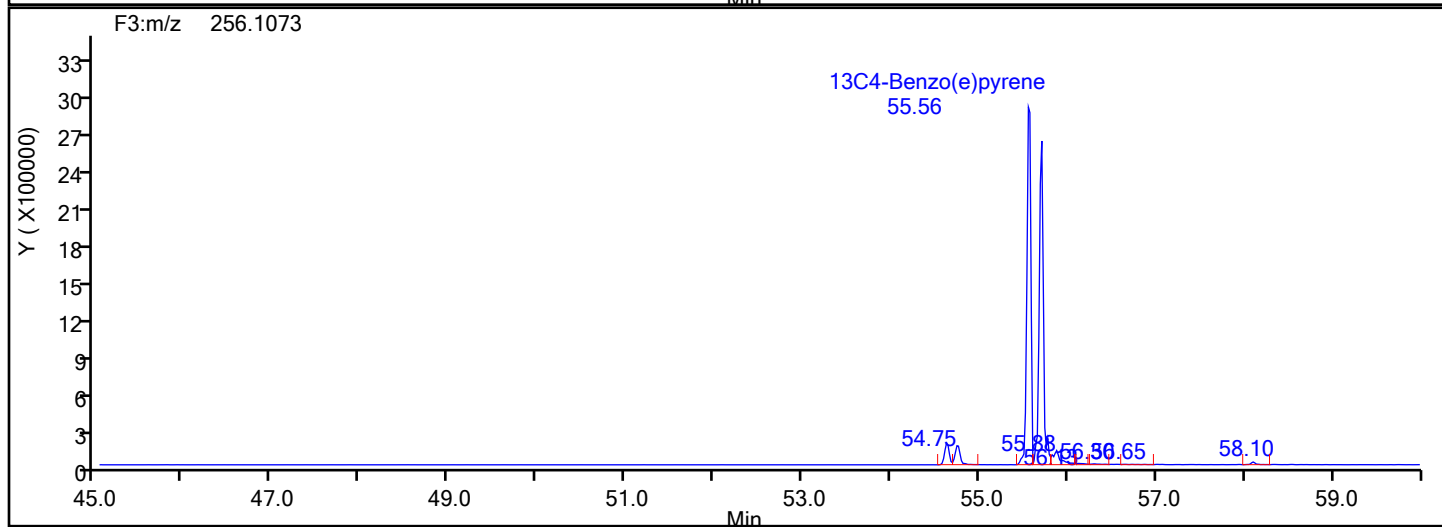
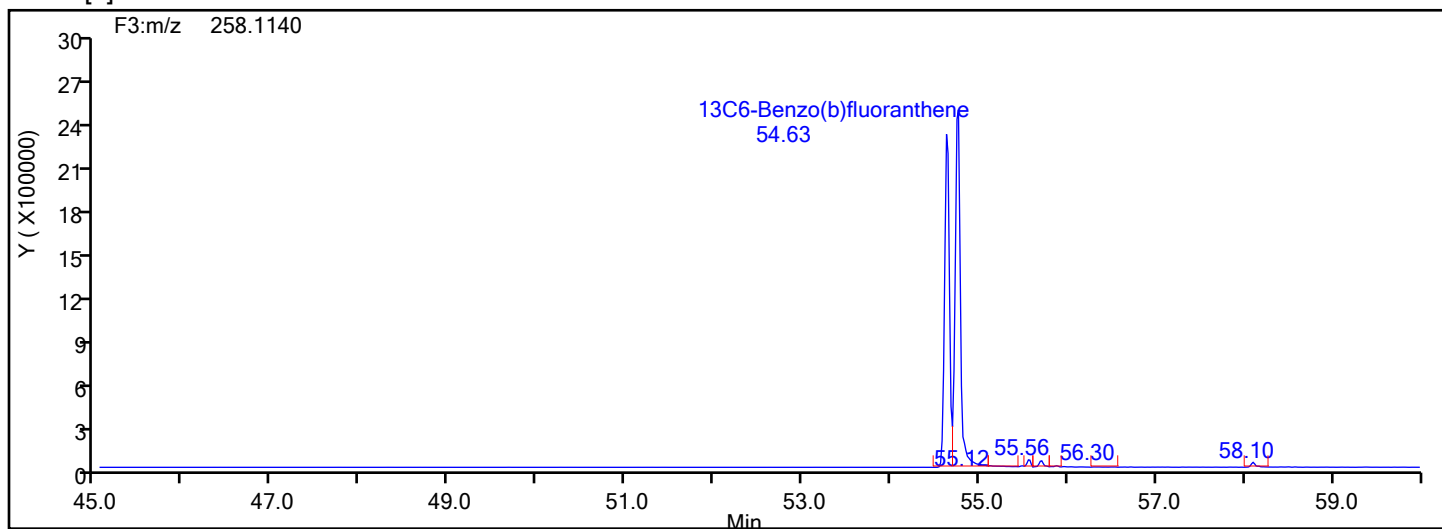
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



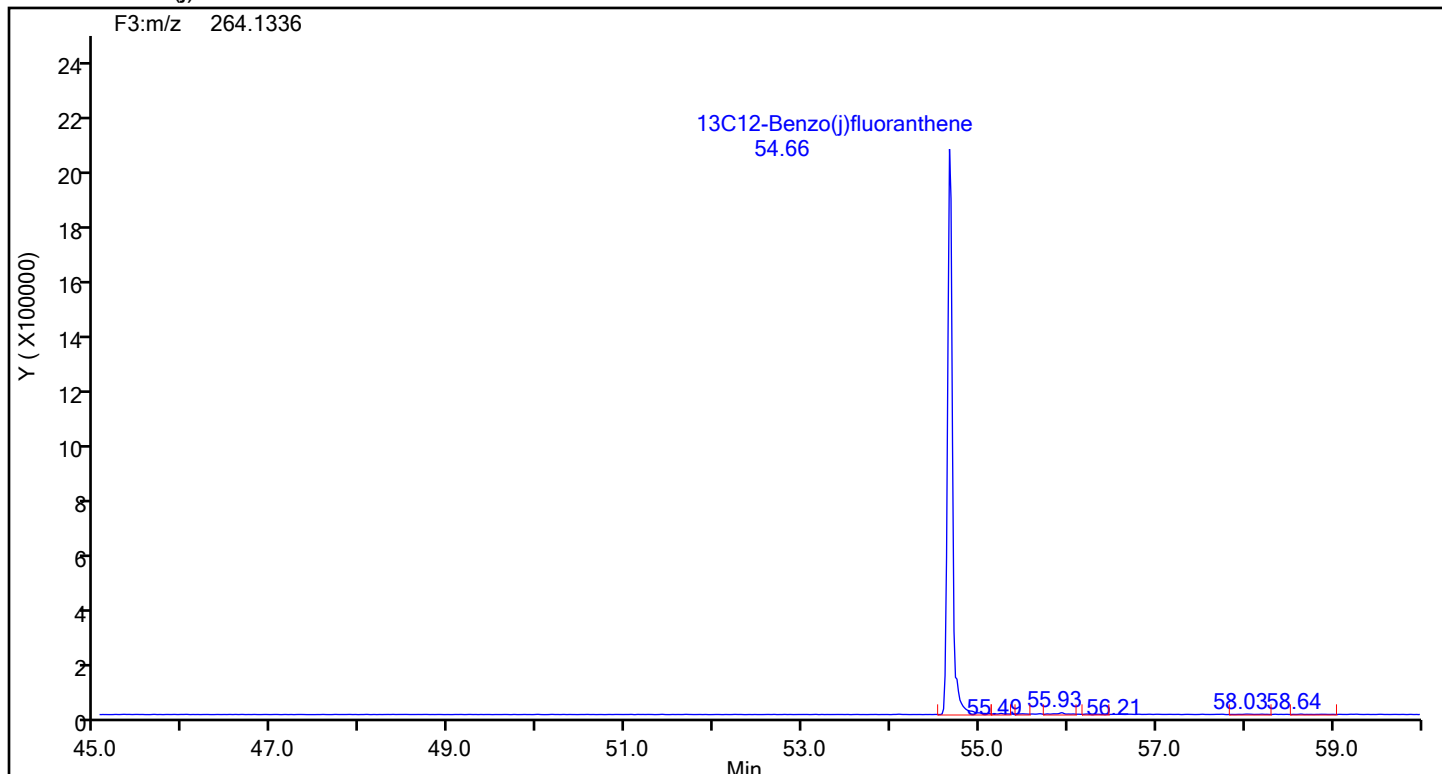
## Benzo[b]fluoranthene Standards



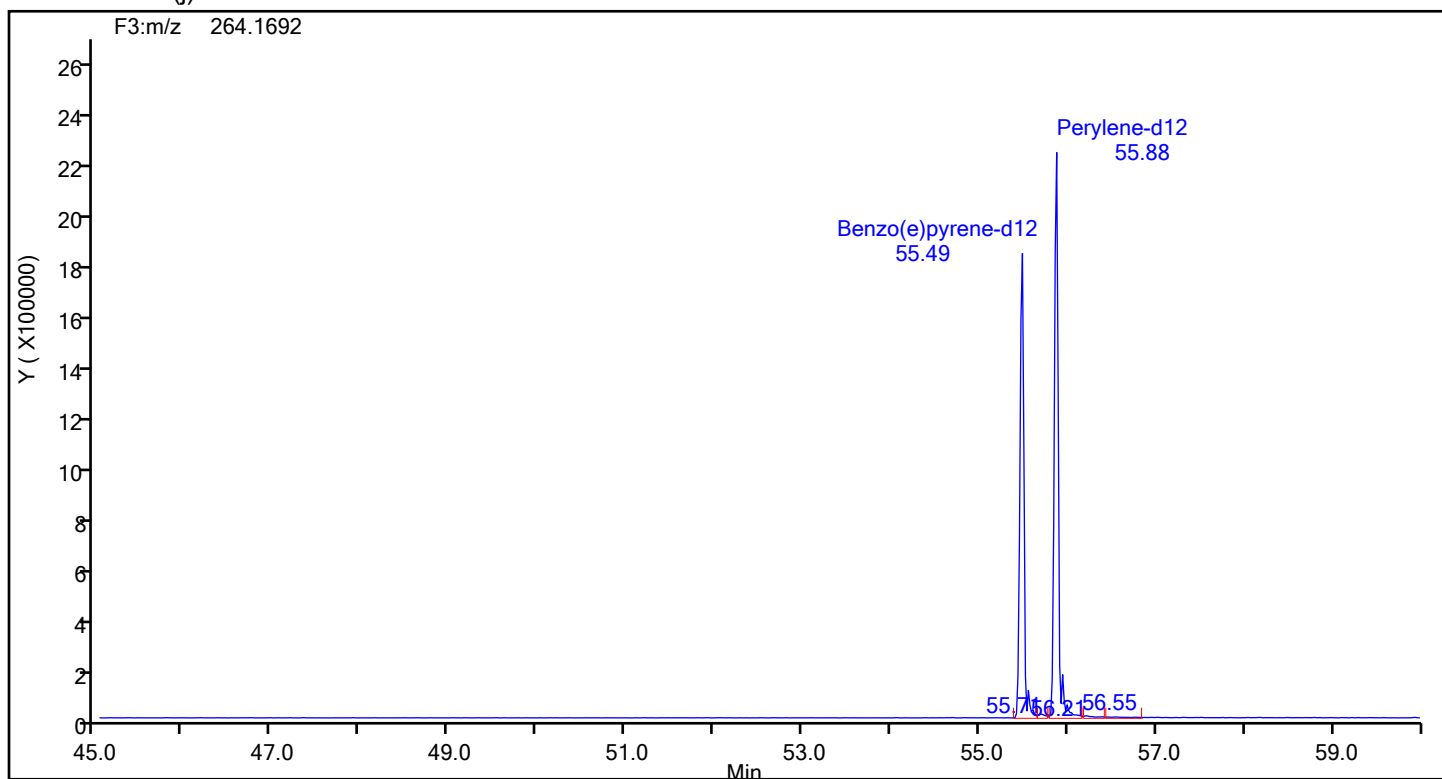
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



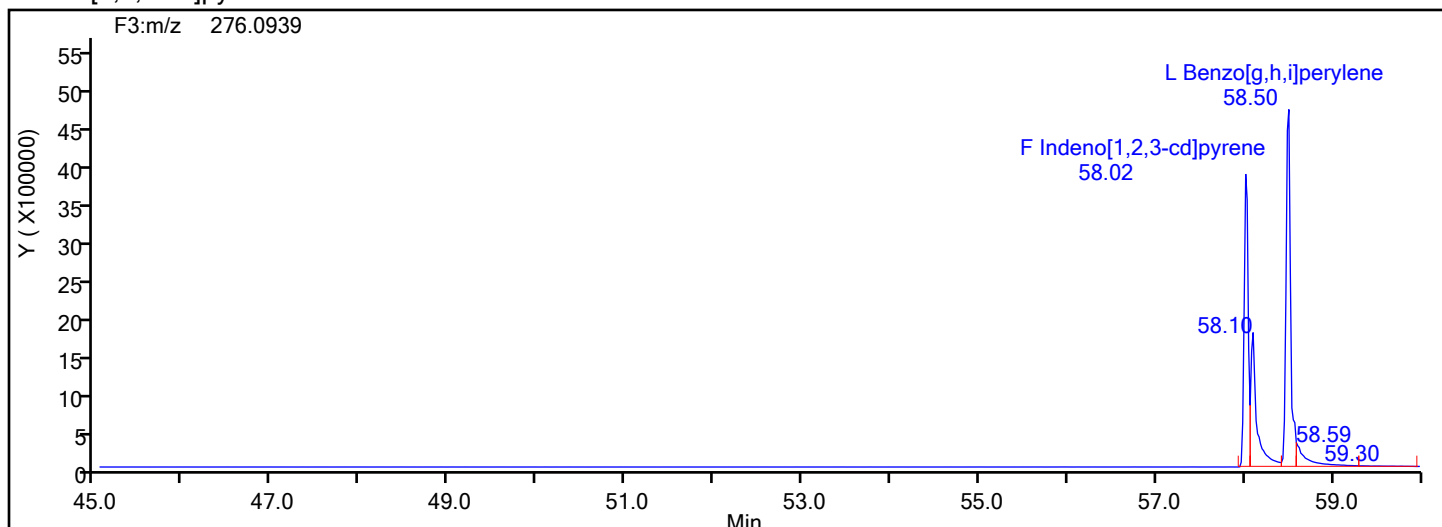
## 13C12-Benzo(j)fluoranthene Standards



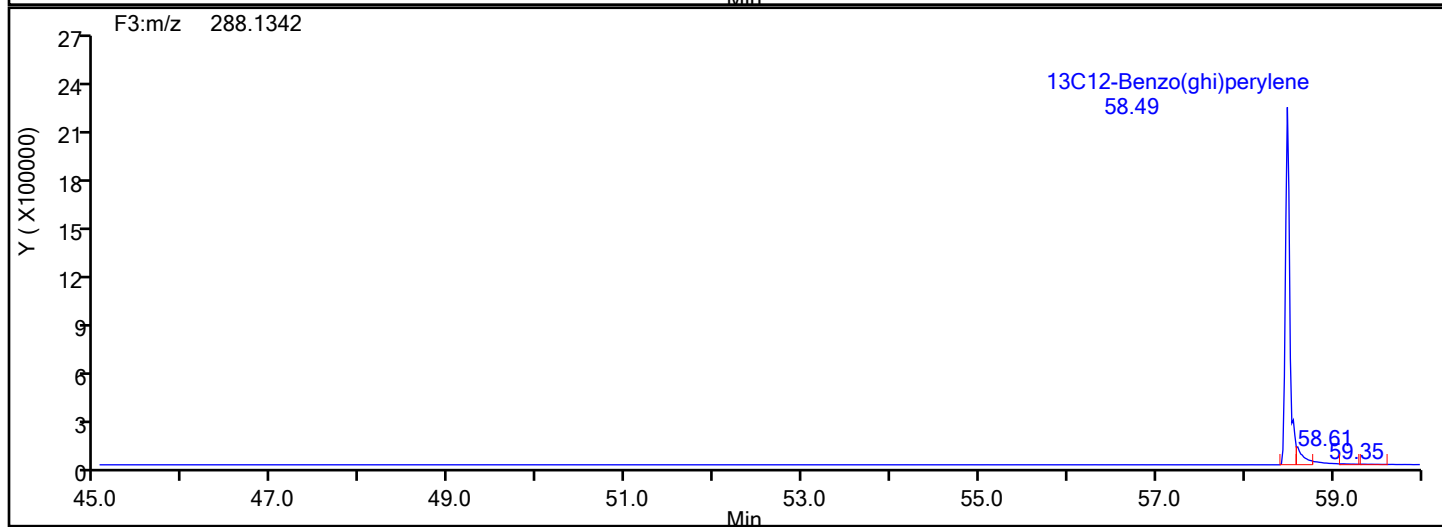
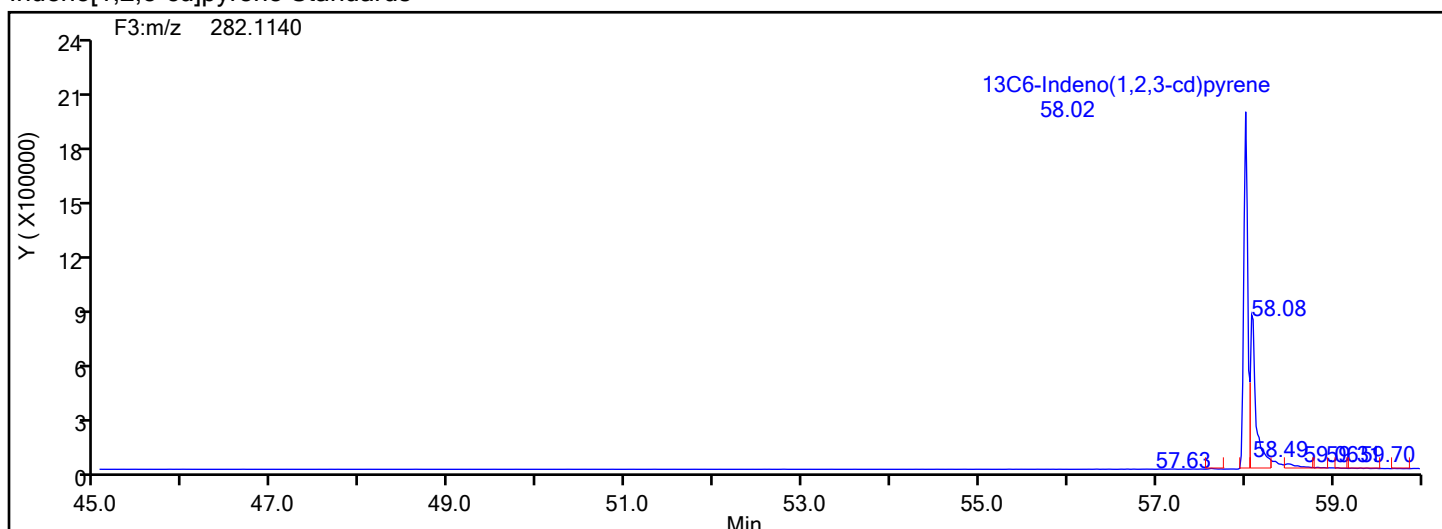
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

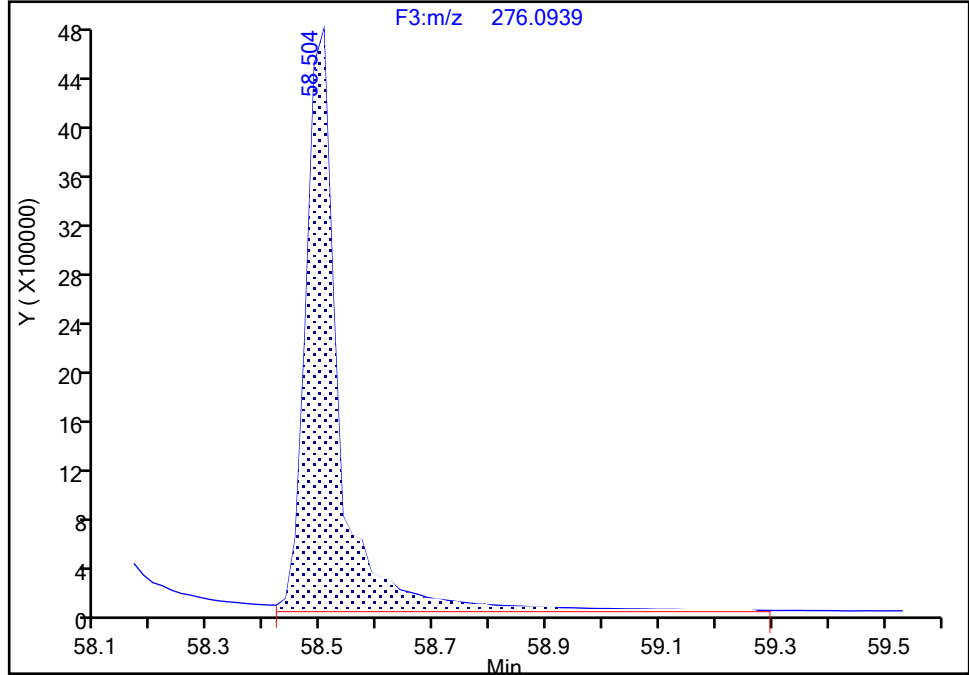
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH  
Lims ID: IC L7  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

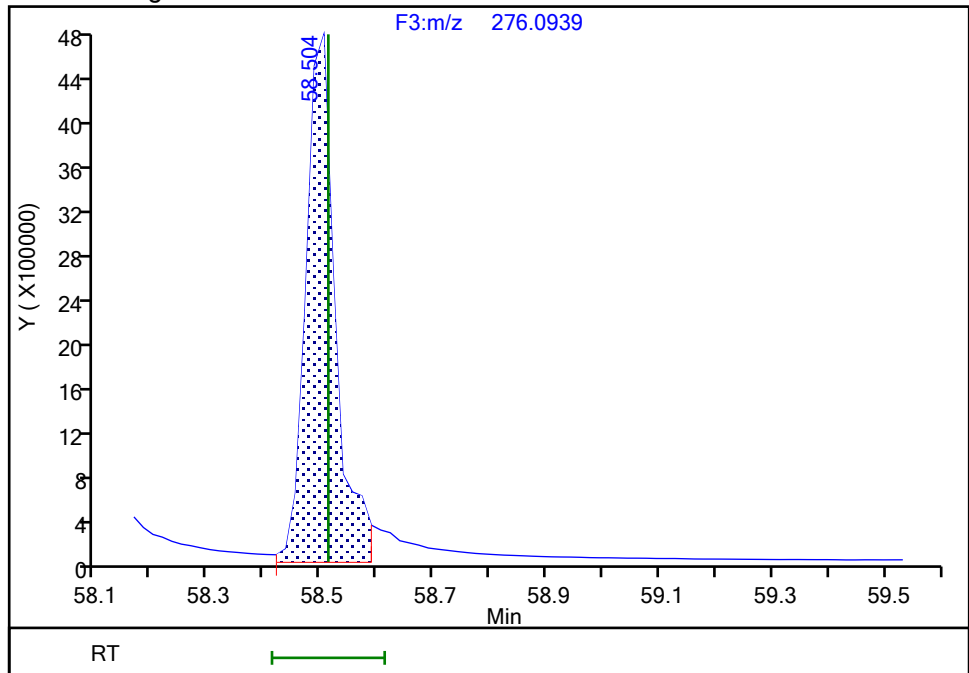
RT: 58.50  
Area: 19808797  
Amount: 202.6337  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.50  
Area: 17229589  
Amount: 177.7182  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

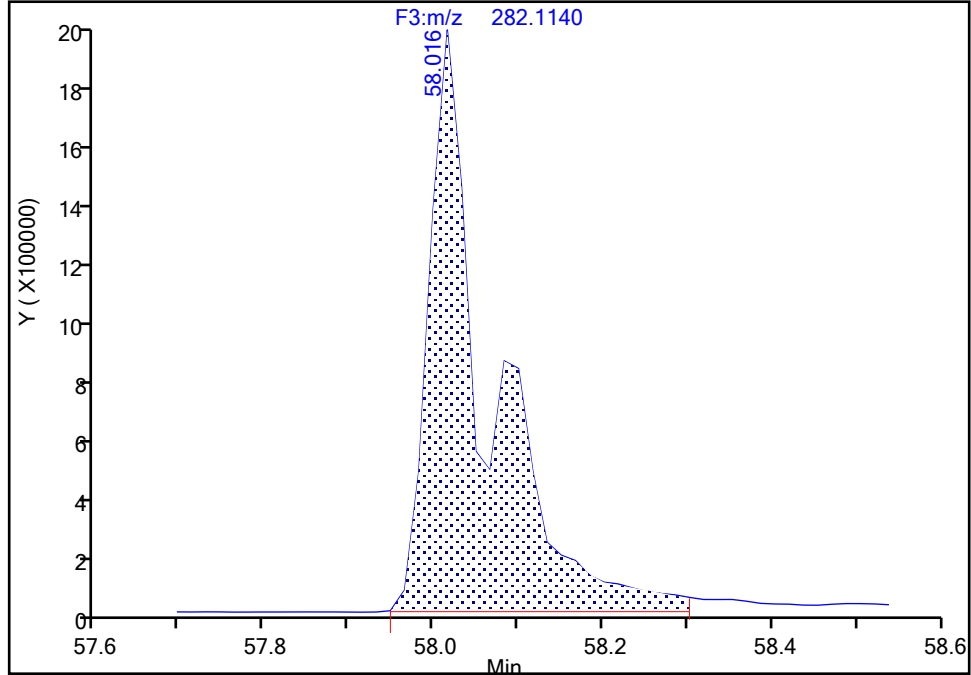
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH  
Lims ID: IC L7  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Indeno(1,2,3-cd)pyrene, CAS: 362044-56-2**

Signal: 1

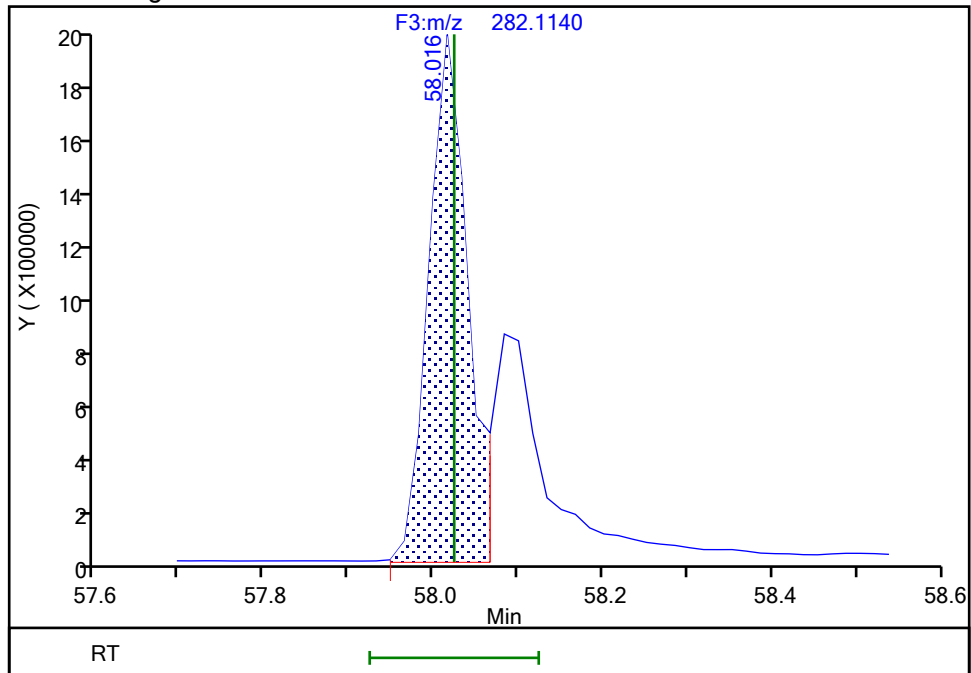
RT: 58.02  
Area: 9726157  
Amount: 154.3529  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.02  
Area: 6349503  
Amount: 107.1454  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:37:58 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

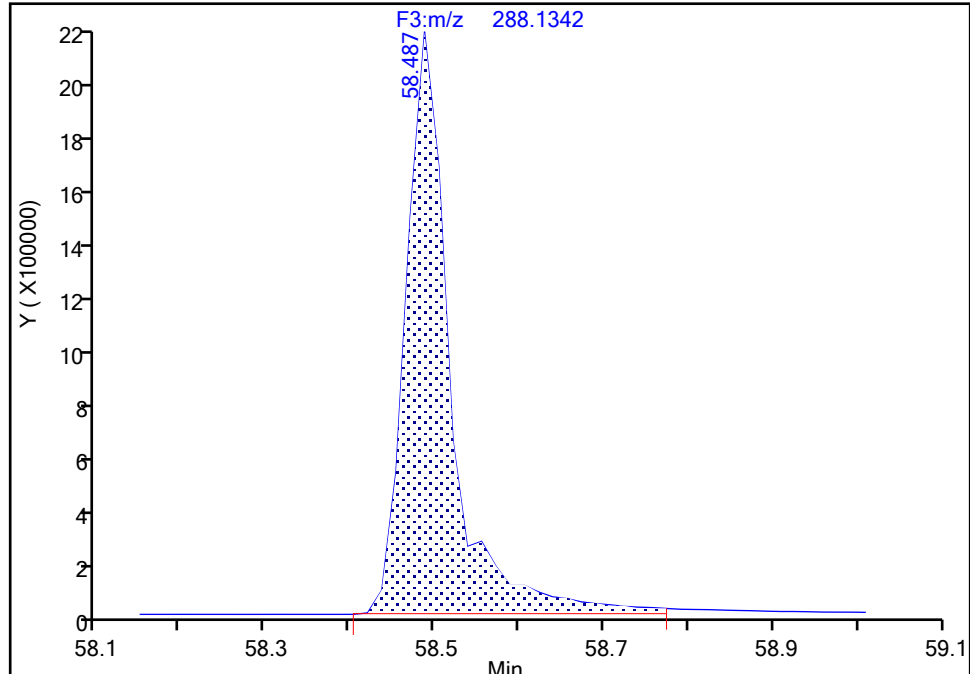
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH  
Lims ID: IC L7  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C12-Benzo(ghi)perylene, CAS: 350820-11-0**

Signal: 1

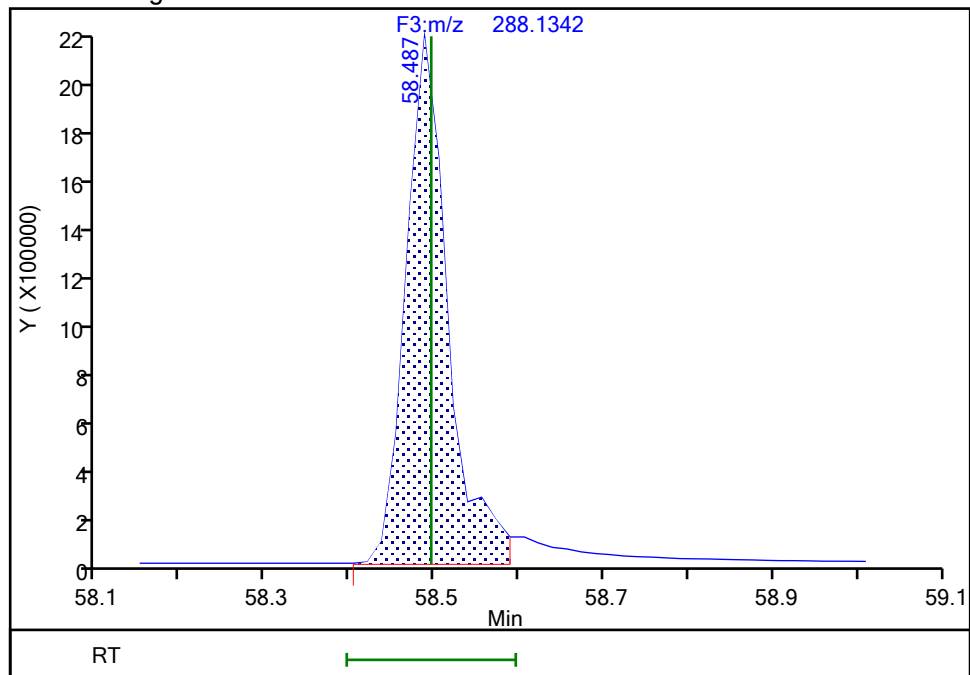
RT: 58.49  
Area: 8100389  
Amount: 107.2367  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.49  
Area: 7551974  
Amount: 102.1435  
Amount Units: pg/ul

## Manual Integration Results



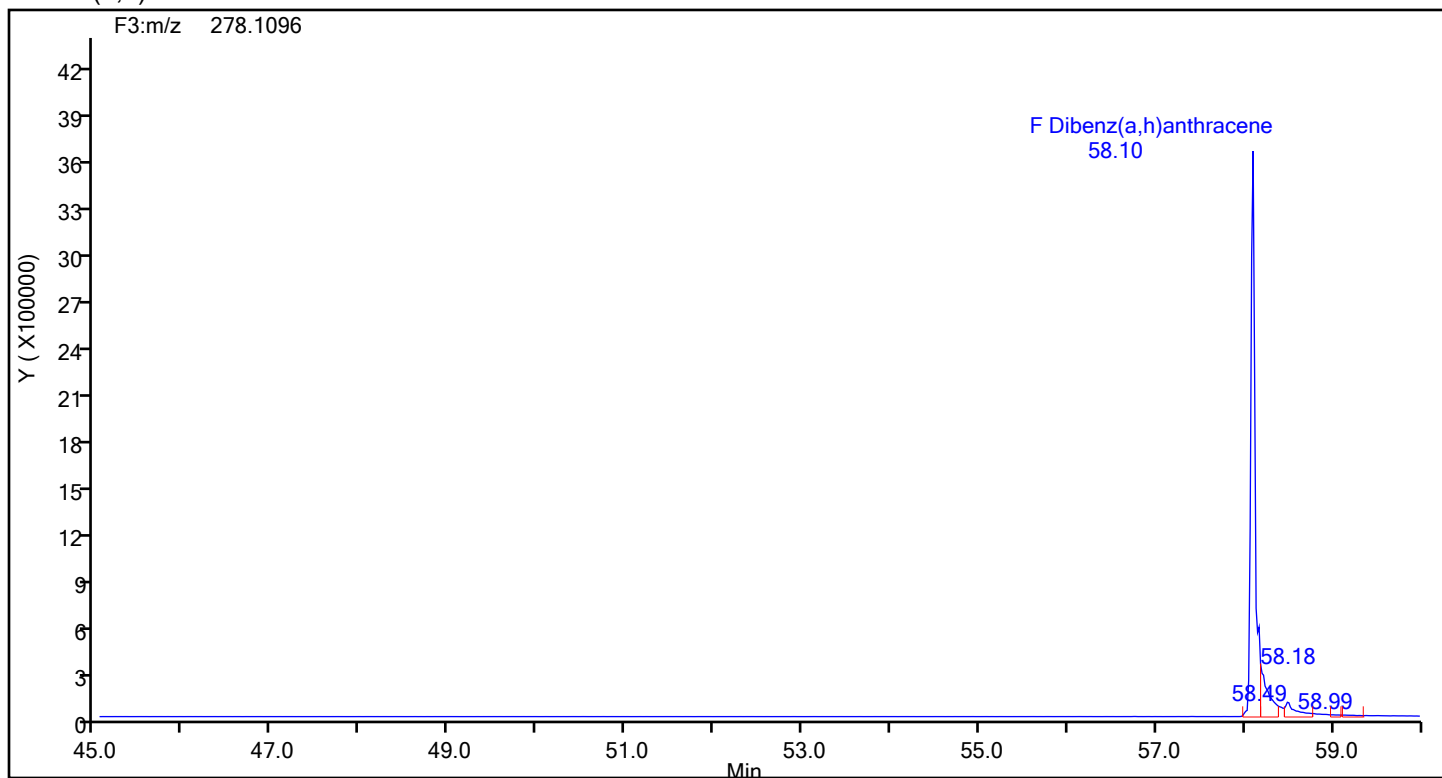
Reviewer: F9EE, 20-Jun-2024 09:38:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

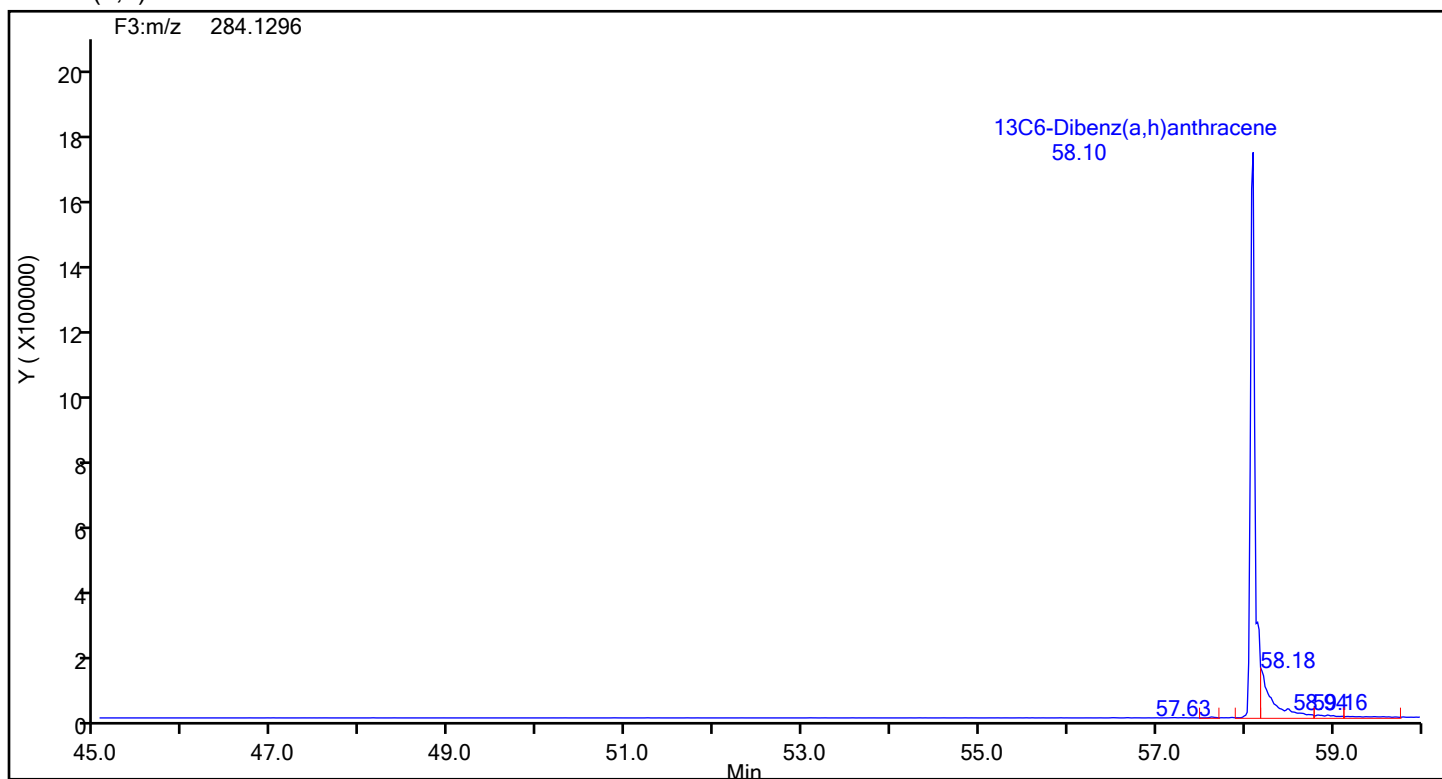
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAL ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 7  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Dibenz(a,h)anthracene



## Dibenzo(a,h)anthracene Standards





## Eurofins Knoxville

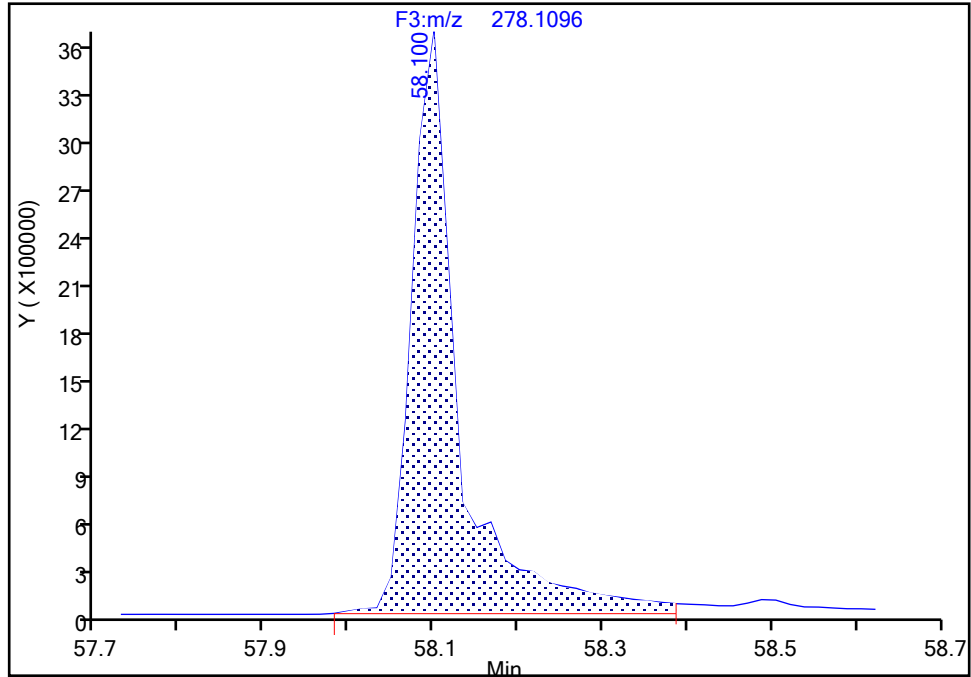
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH  
Lims ID: IC L7  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**Dibenz(a,h)anthracene, CAS: 53-70-3**

Signal: 1

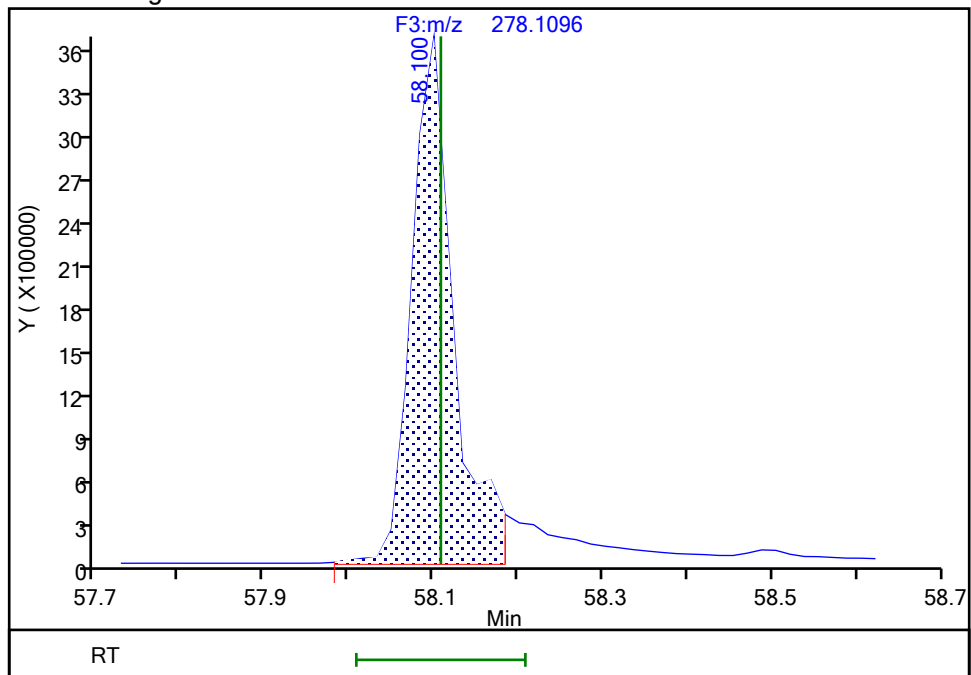
RT: 58.10  
Area: 14258856  
Amount: 204.9671  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.10  
Area: 12538607  
Amount: 181.3847  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:20 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

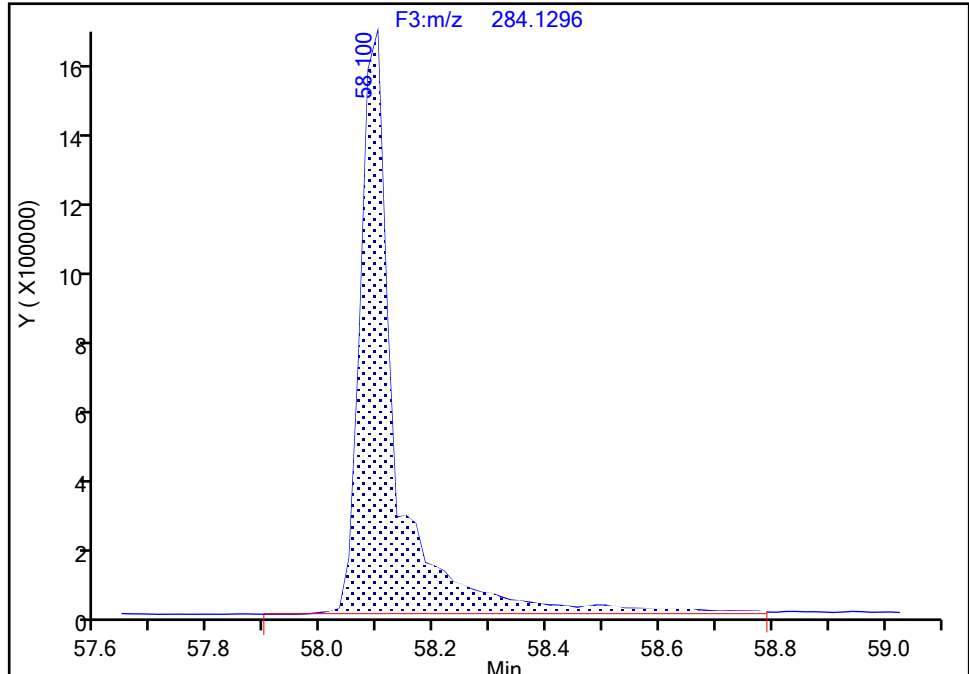
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619ic7.d  
Injection Date: 19-Jun-2024 23:00:00 Instrument ID: D3PAH  
Lims ID: IC L7  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Dibenz(a,h)anthracene, CAS: STL03360**

Signal: 1

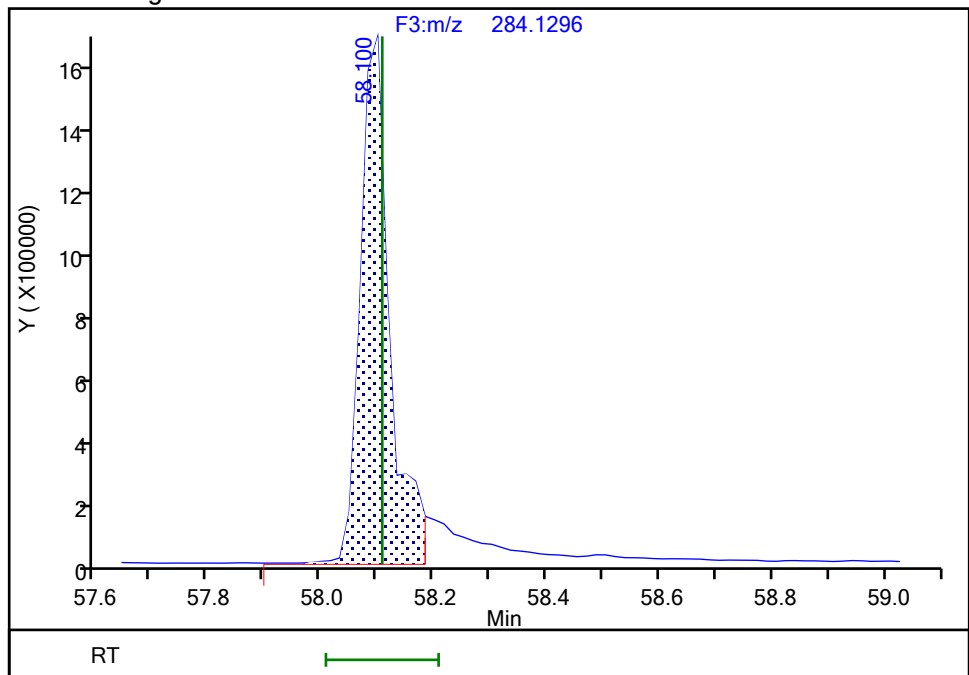
RT: 58.10  
Area: 7350678  
Amount: 113.6700  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.10  
Area: 6110020  
Amount: 99.838282  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d  
Lims ID: IC L8  
Client ID:  
Sample Type: IC Calib Level: 8  
Inject. Date: 20-Jun-2024 00:04:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-008  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 20-Jun-2024 09:51:58 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:39:08

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:33	13369772		3.3746	100.6	100.6	0.005893	0.005893	101	
Naphthalene	11:33	66534766		1.2893	386.0	386.0	0.0323	0.0323	96.50	
D 13C6-2-Methylnaphthalene	13:51	6439882		1.6031	102.0	102.0	0.000322	0.000322	102	
2-Methylnaphthalene	13:52	31544481		1.2786	383.1	383.1	0.0162	0.0162	95.78	
D 13C6-Acenaphthylene	16:45	6765535		1.6520	104.0	104.0	0.000535	0.000535	104	
Acenaphthylene	16:45	37234784		2.3661	389.6	389.6	0.0219	0.0219	97.40	
* Acenaphthene-d10	17:19	3938389		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:26	4039150		0.9792	104.7	104.7	0.001504	0.001504	105	
Acenaphthene	17:26	19367968		1.2697	377.7	377.7	0.0244	0.0244	94.42	
D 13C6-Fluorene	19:44	3801144		0.8898	108.5	108.5	0.000579	0.000579	108	
Fluorene	19:44	18232964		1.2532	382.8	382.8	0.0243	0.0243	95.69	
D 13C6-Phenanthrene	25:07	5572957		0.5724	104.4	104.4	0.004506	0.004506	104	
Phenanthrene	25:07	23294554		1.1044	378.5	378.5	0.0285	0.0285	94.62	
\$ Anthracin-d10	25:20	4116582		0.4257	103.7	103.7	0.001346	0.001346	104	
D 13C6-Anthracene	25:27	4474470		0.4523	106.1	106.1	0.005702	0.005702	106	
Anthracene	25:27	22947314		1.3586	377.5	377.5	0.0298	0.0298	94.37	
D 13C6-Fluoranthrene	33:52	11997910		1.1994	107.3	107.3	0.0154	0.0154	107	
Fluoranthrene	33:53	53709863		1.1513	388.8	388.8	0.0151	0.0151	97.21	
* Pyrene-d10	35:25	9327125		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	13356986		1.3512	106.0	106.0	0.0107	0.0107	106	
Pyrene	35:34	54662936		1.0652	384.2	384.2	0.0155	0.0155	96.05	
\$ 13C6-Benzo(c)fluorene	39:17	4761886		0.5136	99.4	99.4	0.002790	0.002790	99.41	
D 13C6-Benzo(a)anthracene	46:07	10694535		1.5189	102.0	102.0	0.0121	0.0121	102	
Benzo[a]anthracene	46:07	39547814		0.9739	379.7	379.7	0.0317	0.0317	94.93	
D 13C6-Chrysene	46:23	11695295		1.6287	104.0	104.0	0.0113	0.0113	104	
Chrysene	46:23	43785996		0.9815	381.5	381.5	0.0300	0.0300	95.37	
D 13C6-Benzo(b)fluoranthene	54:39	10435051		1.4621	103.4	103.4	0.000791	0.000791	103	
Benzo[b]fluoranthene	54:39	45422181		1.1249	387.0	387.0	0.005821	0.005821	96.74	
\$ 13C12-Benzo(j)fluoranthene	54:41	9891565		1.3558	105.7	105.7	0.0120	0.0120	106	
D 13C6-Benzo(k)fluoranthene	54:46	12917530		1.7507	106.9	106.9	0.000661	0.000661	107	
Benzo[k]fluoranthene	54:46	55519685		1.1271	381.3	381.3	0.005000	0.005000	95.33	
* Benzo(e)pyrene-d12	55:30	6903874		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:35	11723054		1.6368	103.7	103.7	0.0104	0.0104	104	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:35	45463447		1.0013	387.3	387.3	0.004696	0.004696	96.83	
Benzo[a]pyrene	55:43	48994654		1.1130	390.7	390.7	0.004751	0.004751	97.67	
D 13C4-Benzo(a)pyrene	55:43	11267474		1.5508	105.2	105.2	0.0109	0.0109	105	
D Perylene-d12	55:53	8439141		1.1917	102.6	102.6	0.0125	0.0125	103	
Perylene	55:57	50605936		1.4307	419.1	419.1	0.004749	0.004749	105	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	7511958		1.0218	106.5	106.5	0.007788	0.007788	106	
Indeno[1,2,3-cd]pyrene	58:02	31522628		1.1249	373.0	373.0	0.006078	0.006078	93.26	
D 13C6-Dibenz(a,h)anthracene	58:06	7695778		1.0553	105.6	105.6	0.004384	0.004384	106	M
Dibenz(a,h)anthracene	58:06	33420949		1.1314	383.8	383.8	0.005059	0.005059	95.96	M
D 13C12-Benzo(ghi)perylene	58:29	9250572		1.2749	105.1	105.1	0.002903	0.002903	105	M
Benzo[g,h,i]perylene	58:30	44647127		1.2838	376.0	376.0	0.004798	0.004798	93.99	M

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

## Reagents:

61HRPAHCS6\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

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Client ID:  
Sample Type: IC Calib Level: 8  
Inject. Date: 20-Jun-2024 00:04:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-008  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 20-Jun-2024 09:51:58 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
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Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:39:08

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:33	11:33	-1	0.667	13369772	4560382	108	270	42226		
Naphthalene											
128.0626	11:33	11:34	-1	1.000	66534766	23571526	761	1902	30974		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	6439882	3011483	3	7	1003828		
2-Methylnaphthalene											
142.0783	13:52	13:53	-1	1.001	31544481	14565701	250	625	58263		
13C6-Acenaphthylene											
158.0828	16:45	16:45	-1	0.967	6765535	2390392	5	12	478078		
Acenaphthylene											
152.0626	16:45	16:45	-1	1.000	37234784	13823003	297	742	46542		
Acenaphthene-d10											
164.1404	17:19	17:20	-1		3938389	1357794	4	10	339449		
13C6-Acenaphthene											
160.0984	17:26	17:27	-1	1.007	4039150	1433544	8	20	179193		
Acenaphthene											
154.0783	17:26	17:27	-1	1.000	19367968	7000107	178	445	39326		
13C6-Fluorene											
172.0984	19:44	19:45	-1	1.140	3801144	1141649	3	7	380550		
Fluorene											
166.0783	19:44	19:45	-1	1.000	18232964	5731294	139	347	41232		
13C6-Phenanthrene											
184.0984	25:07	25:08	-1	0.709	5572957	1302616	18	45	72368		
Phenanthrene											
178.0783	25:07	25:08	-1	1.000	23294554	5710557	164	410	34820		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:20	25:21	-1	0.715	4116582	938915	4	10	234729		
13C6-Anthracene											
184.0984	25:27	25:28	-1	0.718	4474470	1011656	18	45	56203		
Anthracene											
178.0783	25:27	25:28	-1	1.000	22947314	5311986	164	410	32390		
13C6-Fluoranthrene											
208.0984	33:52	33:54	-2	0.956	11997910	2409519	129	322	18678		
Fluoranthene											
202.0783	33:53	33:54	-1	1.000	53709863	11141942	168	420	66321		
Pyrene-d10											
212.1404	35:25	35:27	-2		9327125	1744548	56	140	31153		
13C3-Pyrene											
205.0883	35:34	35:35	-2	1.004	13356986	2550188	101	252	25249		
Pyrene											
202.0783	35:34	35:35	-1	1.000	54662936	10863334	168	420	64663		
13C6-Benzo(c)fluorene											
222.1134	39:17	39:18	-1	0.708	4761886	868339	10	25	86834		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	-1	1.302	10694535	1918789	159	397	12068		
Benzo[a]anthracene											
228.0939	46:07	46:07	-1	1.000	39547814	7546280	237	592	31841		
13C6-Chrysene											
234.1140	46:23	46:24	-1	1.309	11695295	2008932	159	397	12635		
Chrysene											
228.0939	46:23	46:25	-2	1.000	43785996	7992089	237	592	33722		
13C6-Benzo(b)fluoranthene											
258.1140	54:39	54:40	-1	0.985	10435051	2825469	10	25	282547		
Benzo[b]fluoranthene											
252.0939	54:39	54:40	-1	1.000	45422181	13034981	74	185	176148		
13C12-Benzo(j)fluoranthene											
264.1336	54:41	54:42	-1	0.985	9891565	2522237	141	352	17888		
13C6-Benzo(k)fluoranthene											
258.1140	54:46	54:47	-1	0.987	12917530	3282519	10	25	328252		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	55519685	14325989	74	185	193595		
Benzo(e)pyrene-d12											
264.1692	55:30	55:30	-1		6903874	2161428	129	322	16755		
13C4-Benzo(e)pyrene											
256.1073	55:35	55:35	-1	1.002	11723054	3934689	147	367	26767		
Benzo[e]pyrene											
252.0939	55:35	55:35	-1	1.000	45463447	15904191	74	185	214922		
Benzo[a]pyrene											
252.0939	55:43	55:44	-1	1.000	48994654	15258523	74	185	206196		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:43	55:44	-1	1.004	11267474	3498798	147	367	23801		
Perylene-d12											
264.1692	55:53	55:54	-1	1.007	8439141	2723157	129	322	21110		
Perylene											
252.0939	55:57	55:58	-1	1.001	50605936	17778838	74	185	240255		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	7511958	2369138	69	172	34335		
Indeno[1,2,3-cd]pyrene											
276.0939	58:02	58:03	-1	1.000	31522628	10138502	65	162	155977		
13C6-Dibenz(a,h)anthracene											
284.1296	58:06	58:07	-1	1.047	7695778	2218739	40	100	55468		M
Dibenz(a,h)anthracene											
278.1096	58:06	58:07	-1	1.000	33420949	9833780	51	127	192819		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	9250572	2630111	32	80	82191		M
Benzo[g,h,i]perylene											
276.0939	58:30	58:31	-1	1.000	44647127	13129350	65	162	201990		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS6\_00002

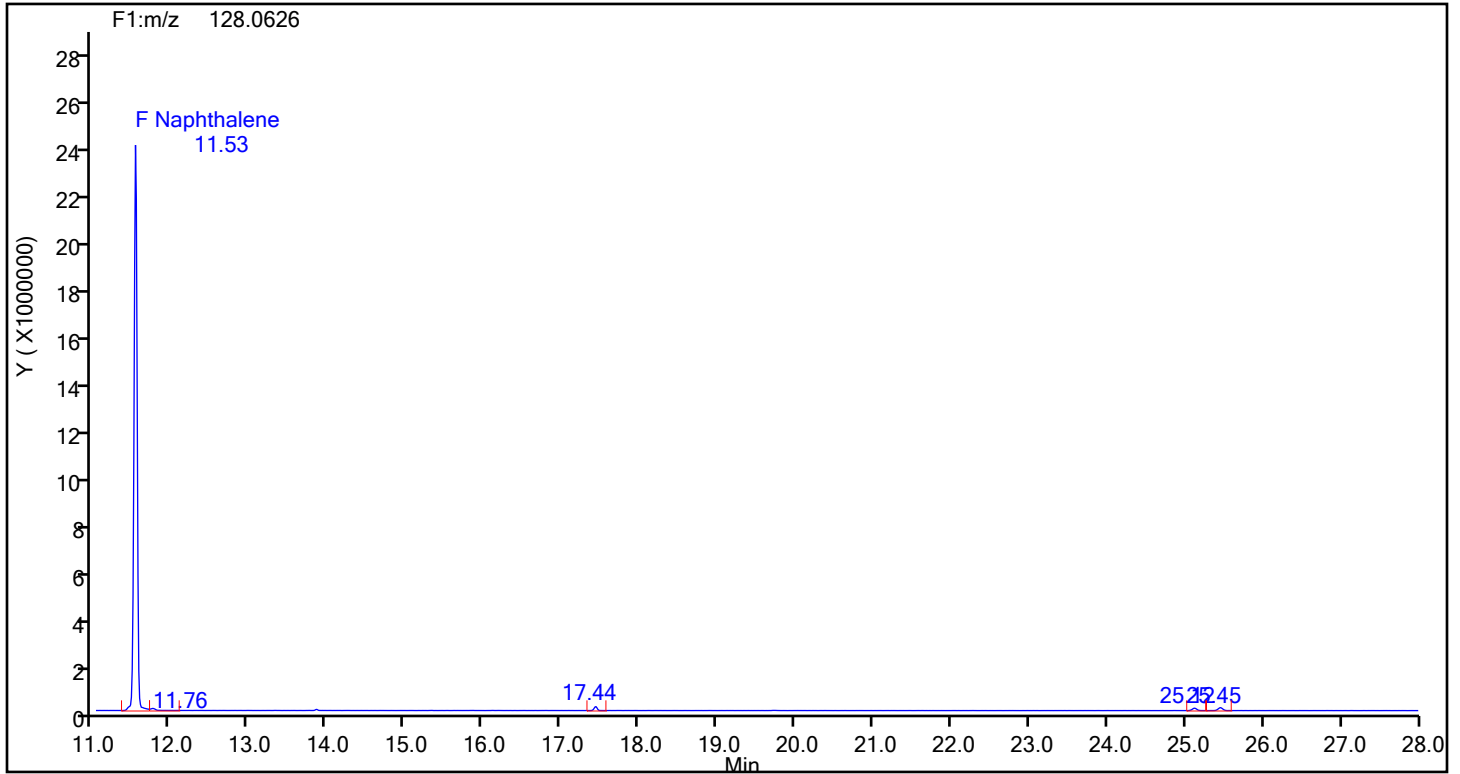
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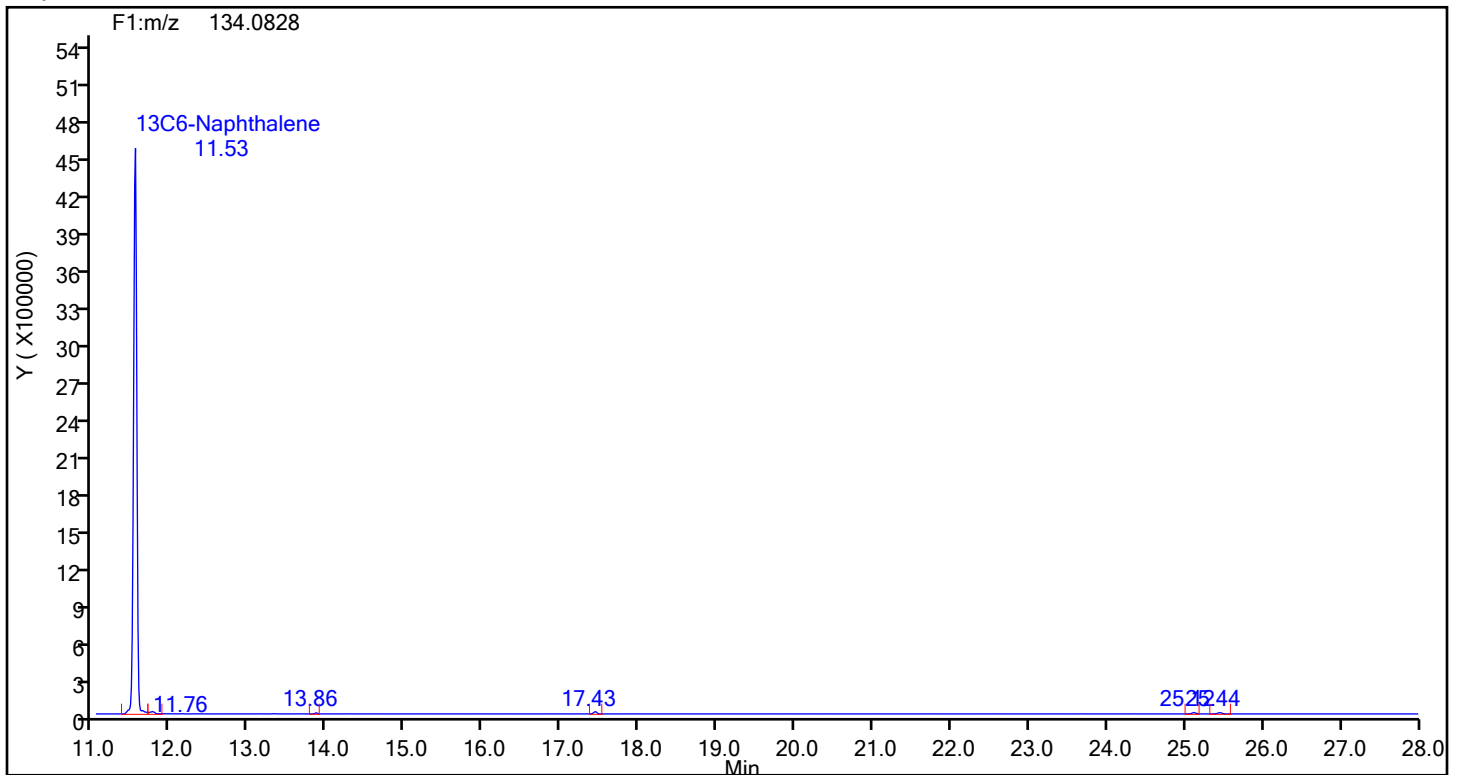
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards

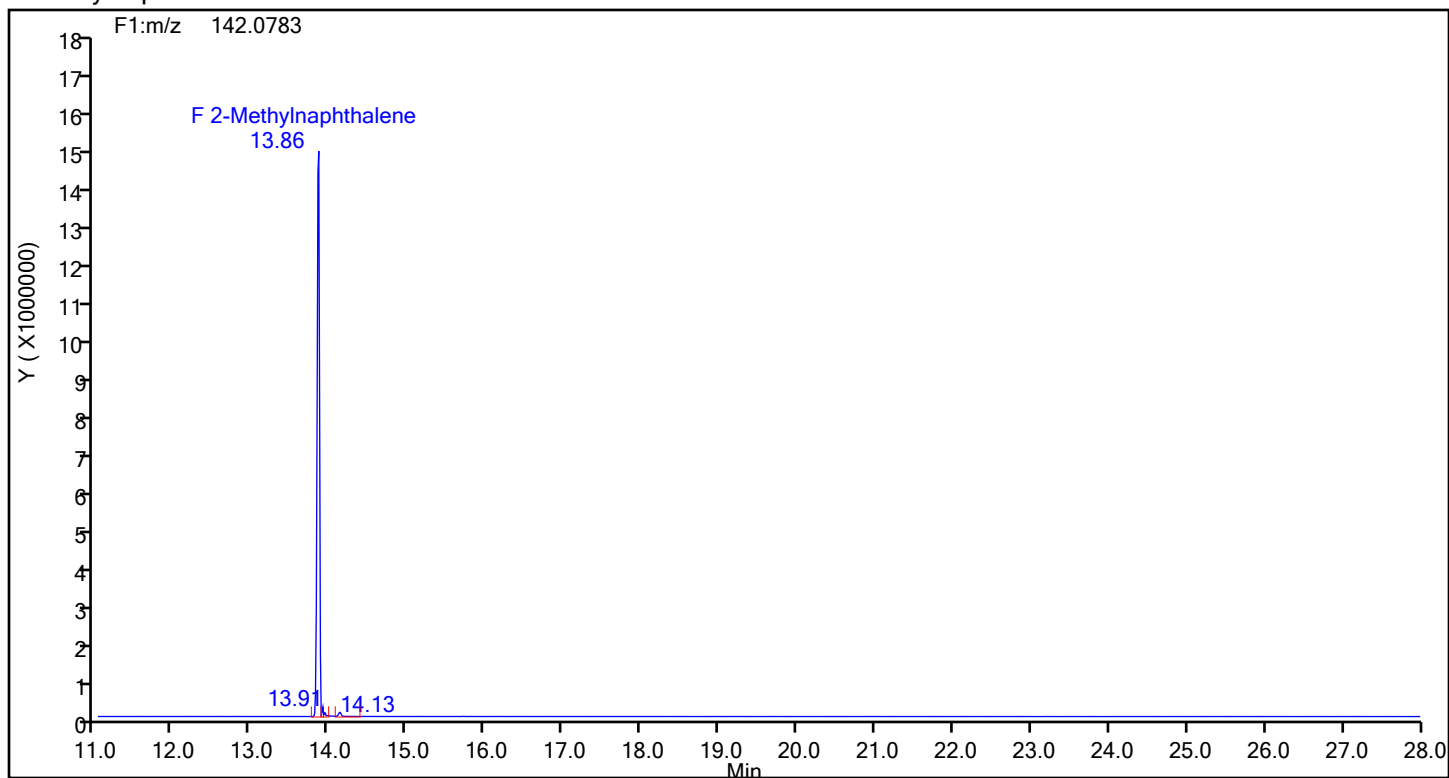




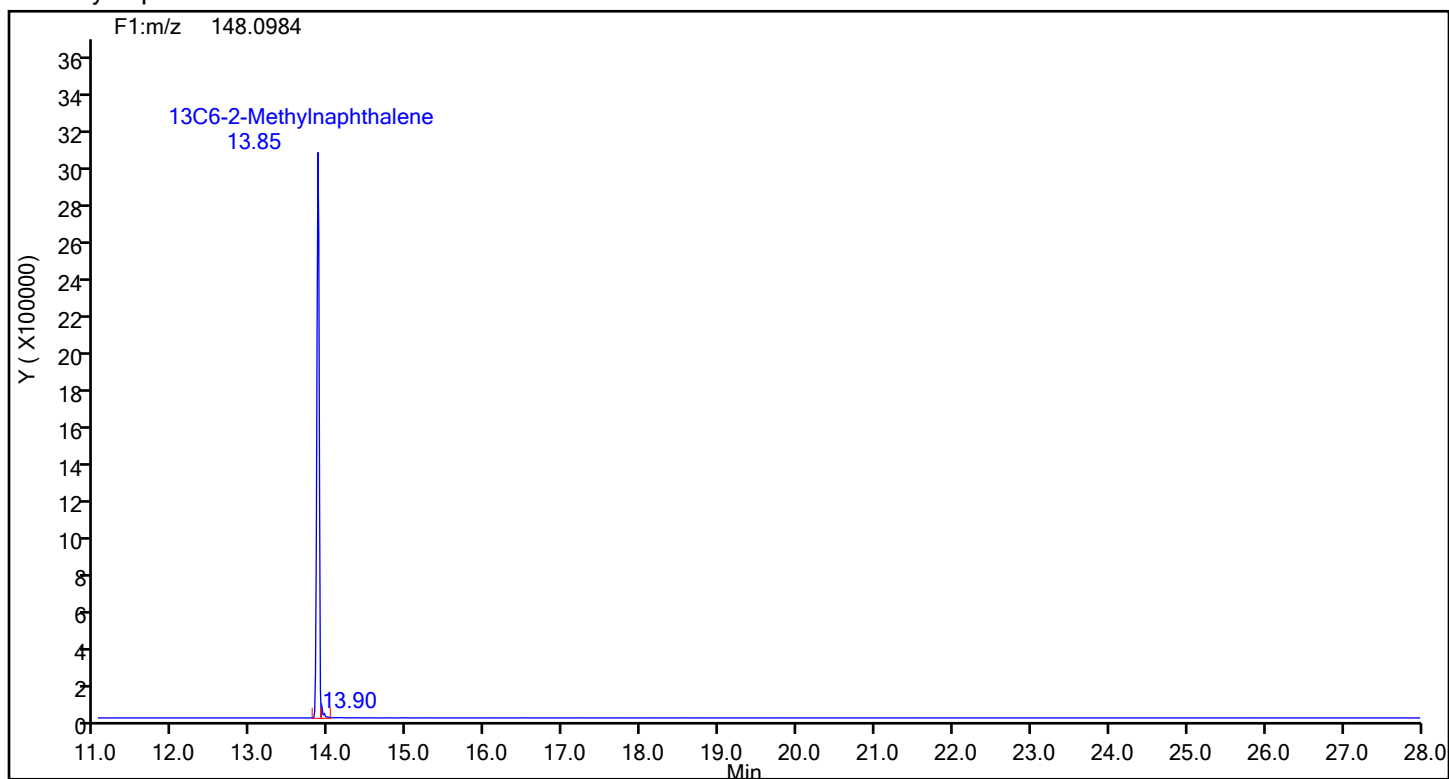
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



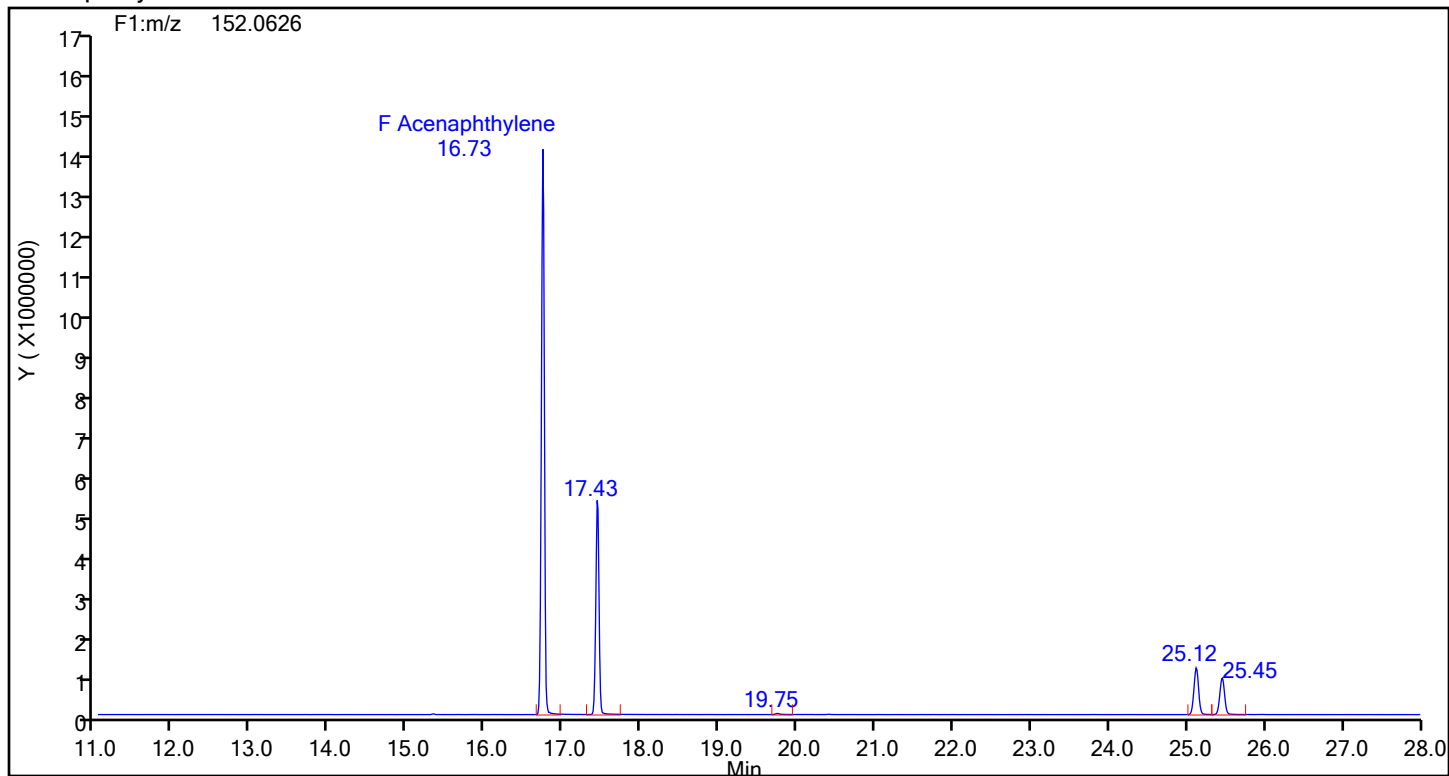
## 2-Methylnaphthalene Standards



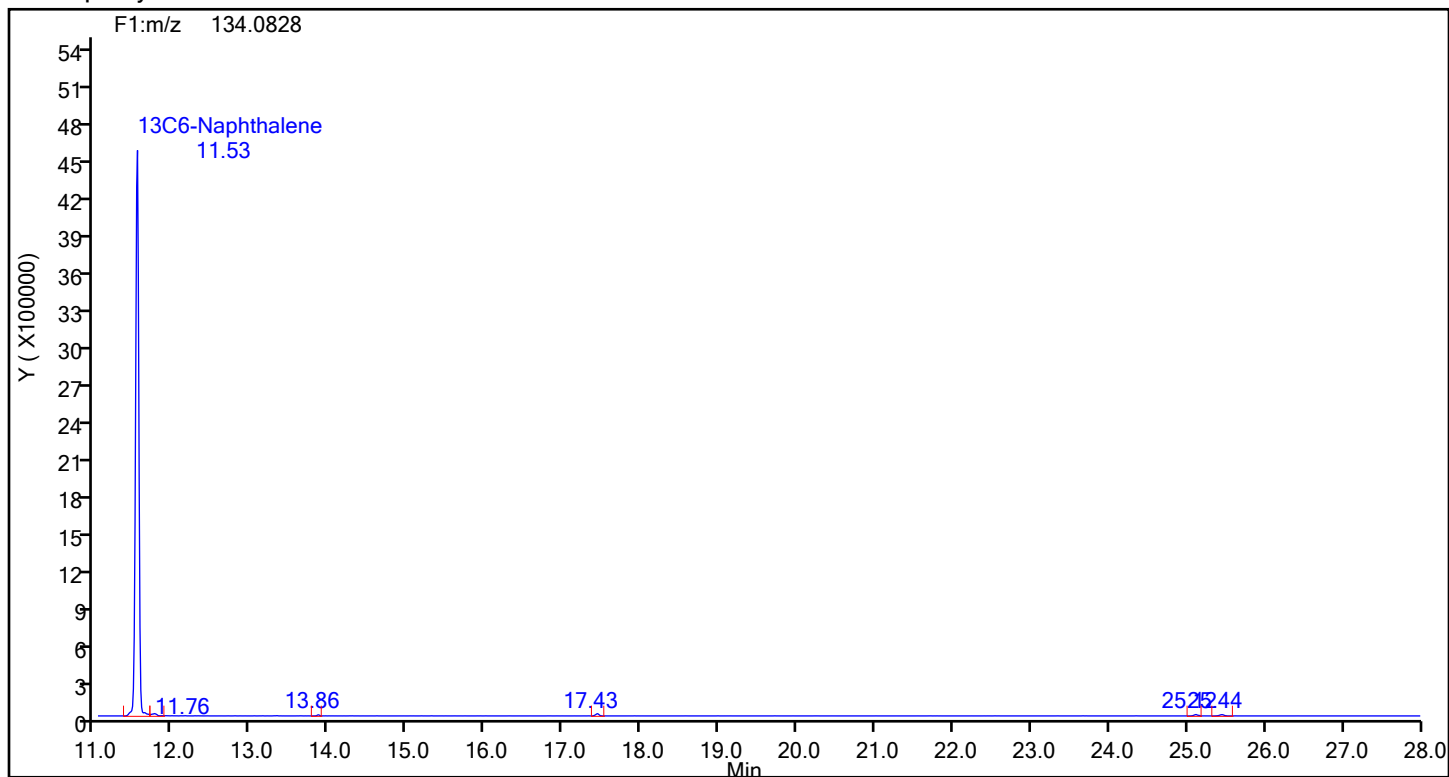
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## Acenaphthylene



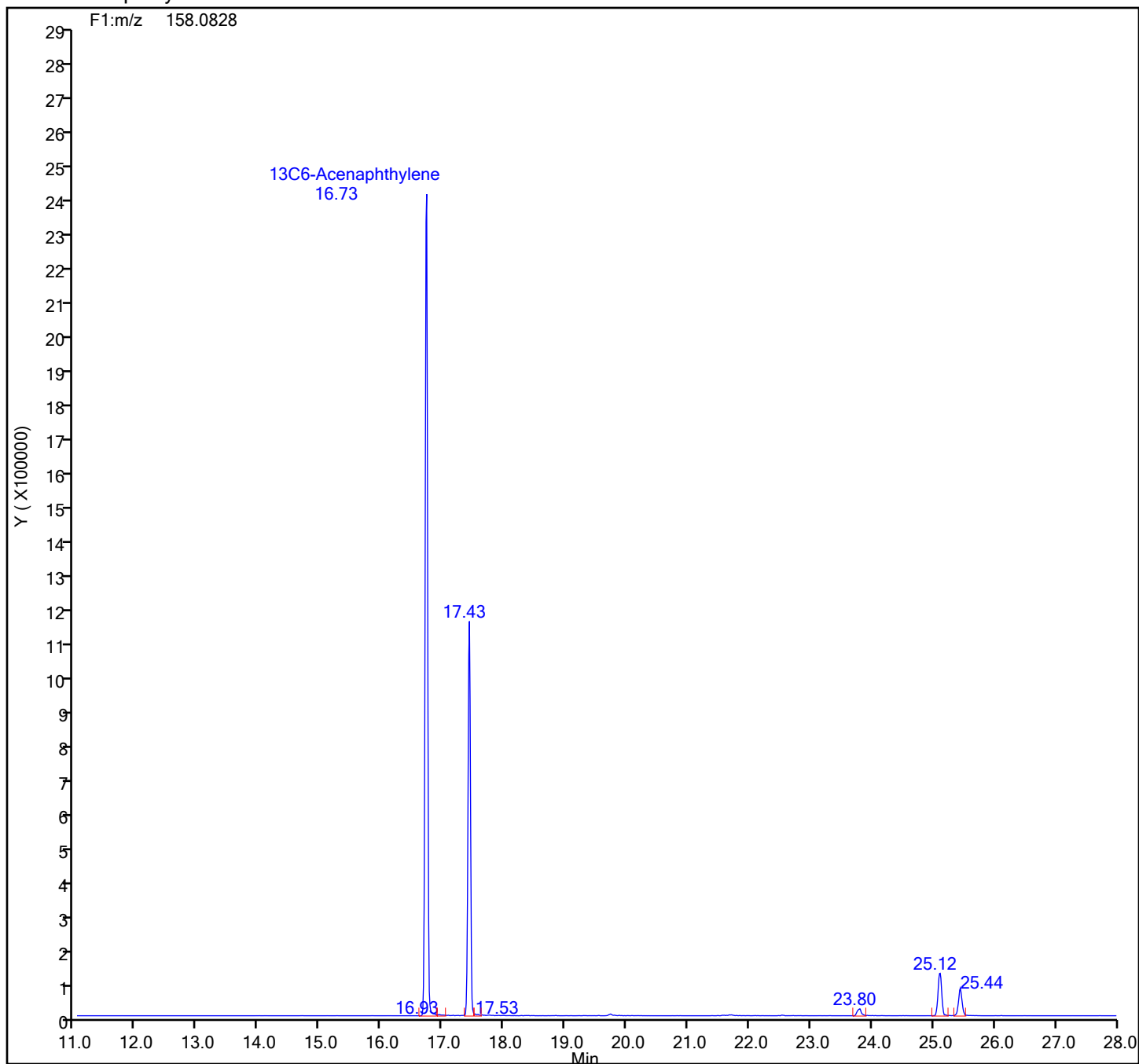
## Acenaphthylene Standards



## Eurofins Knoxville

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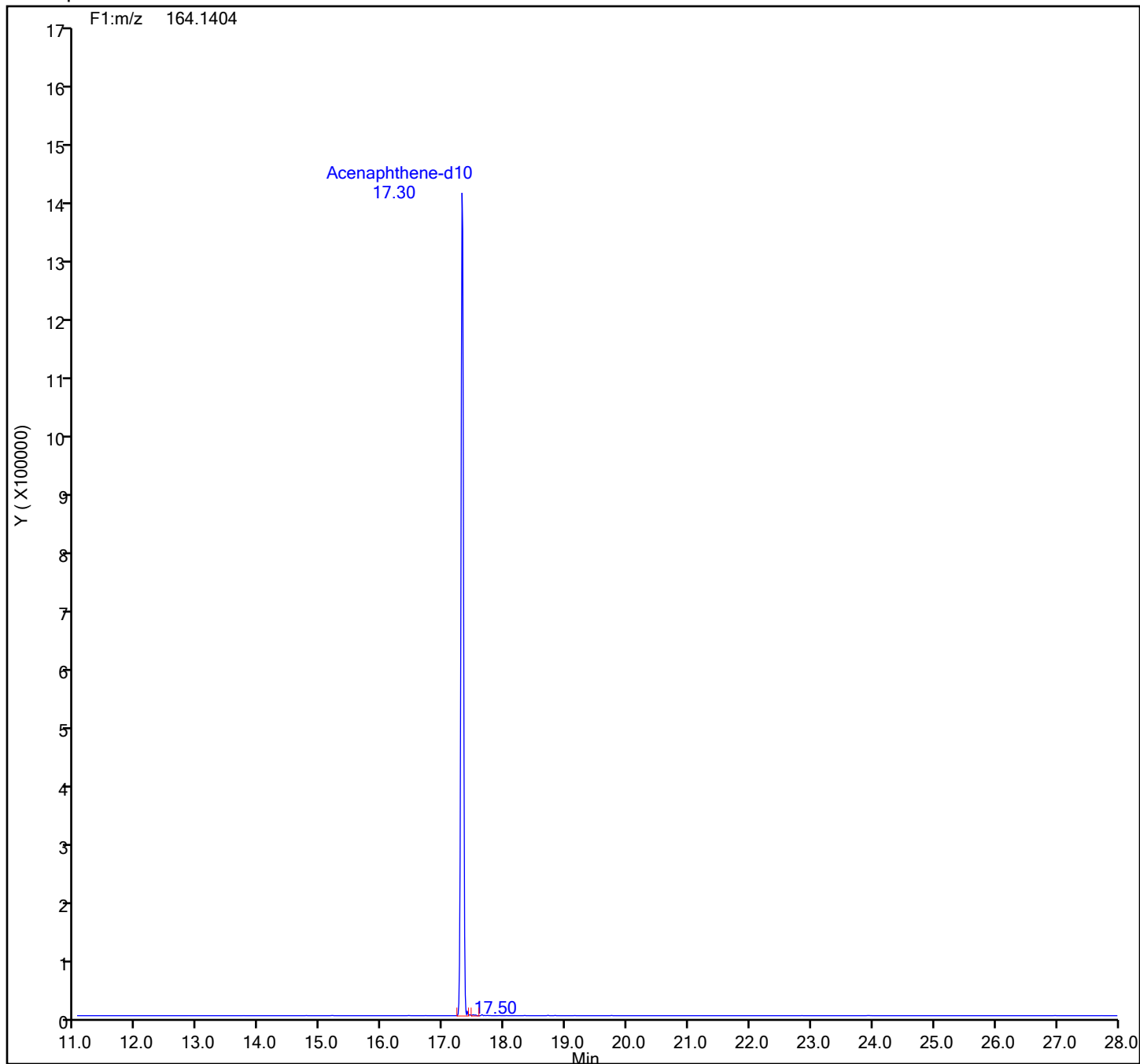
## 13C6-Acenaphthylene Standards



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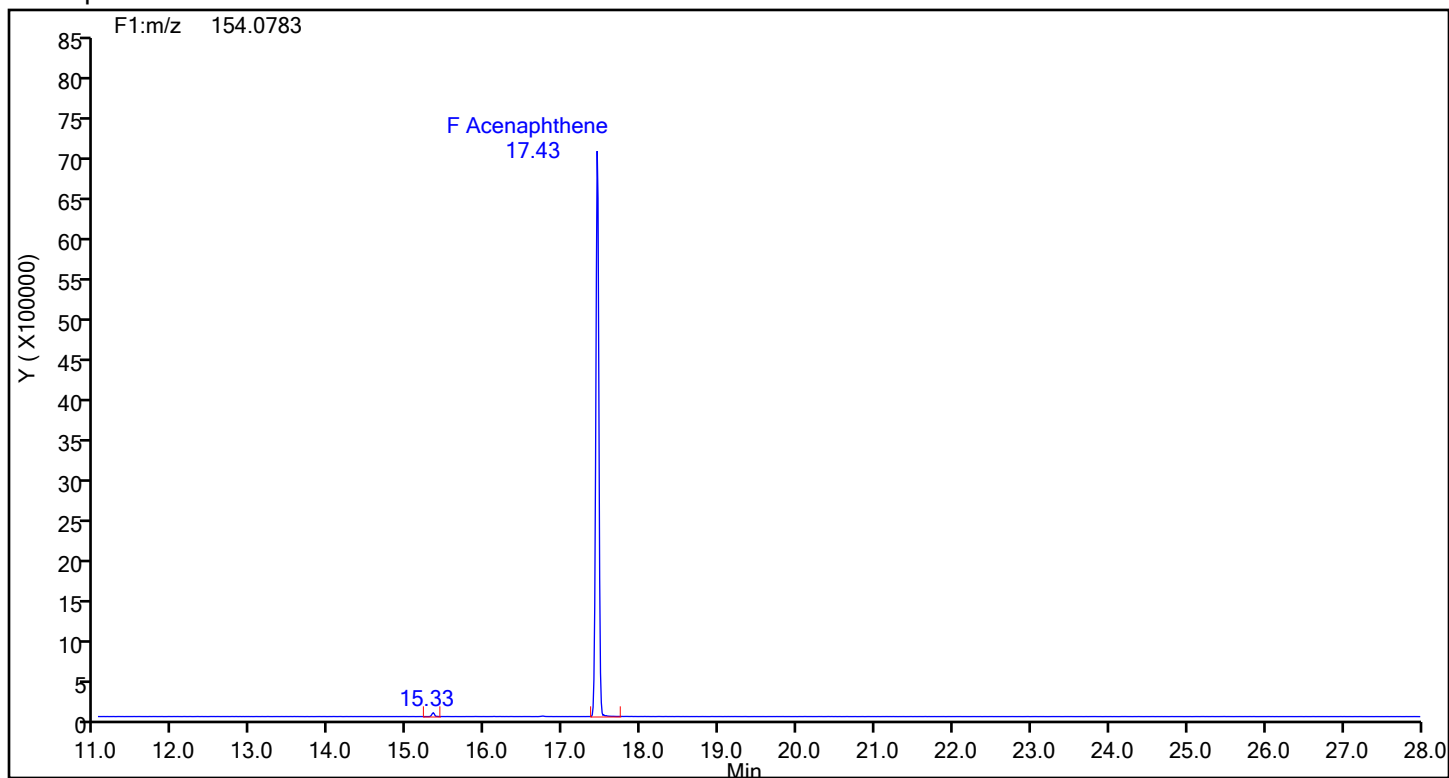
## Acenaphthene-d10 Standards



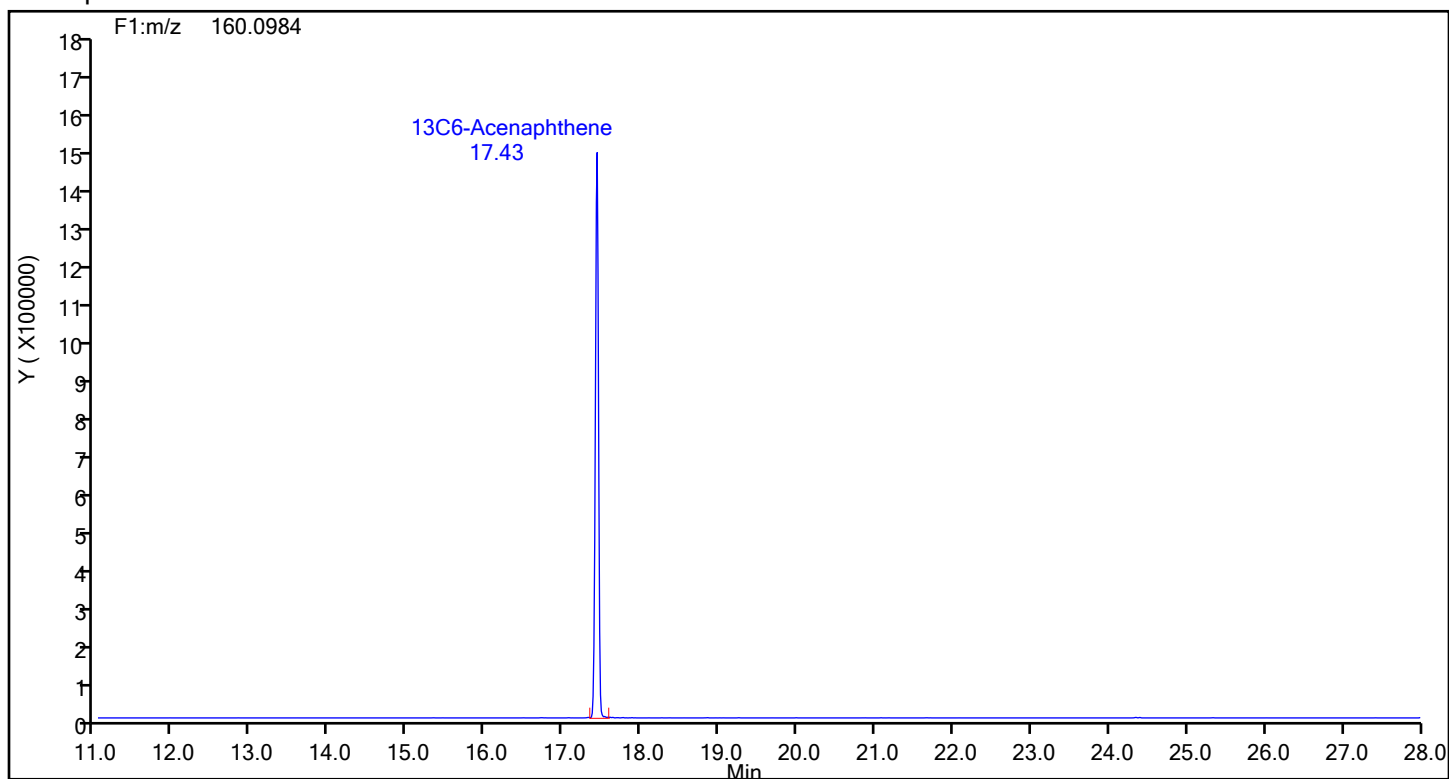
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## Acenaphthene



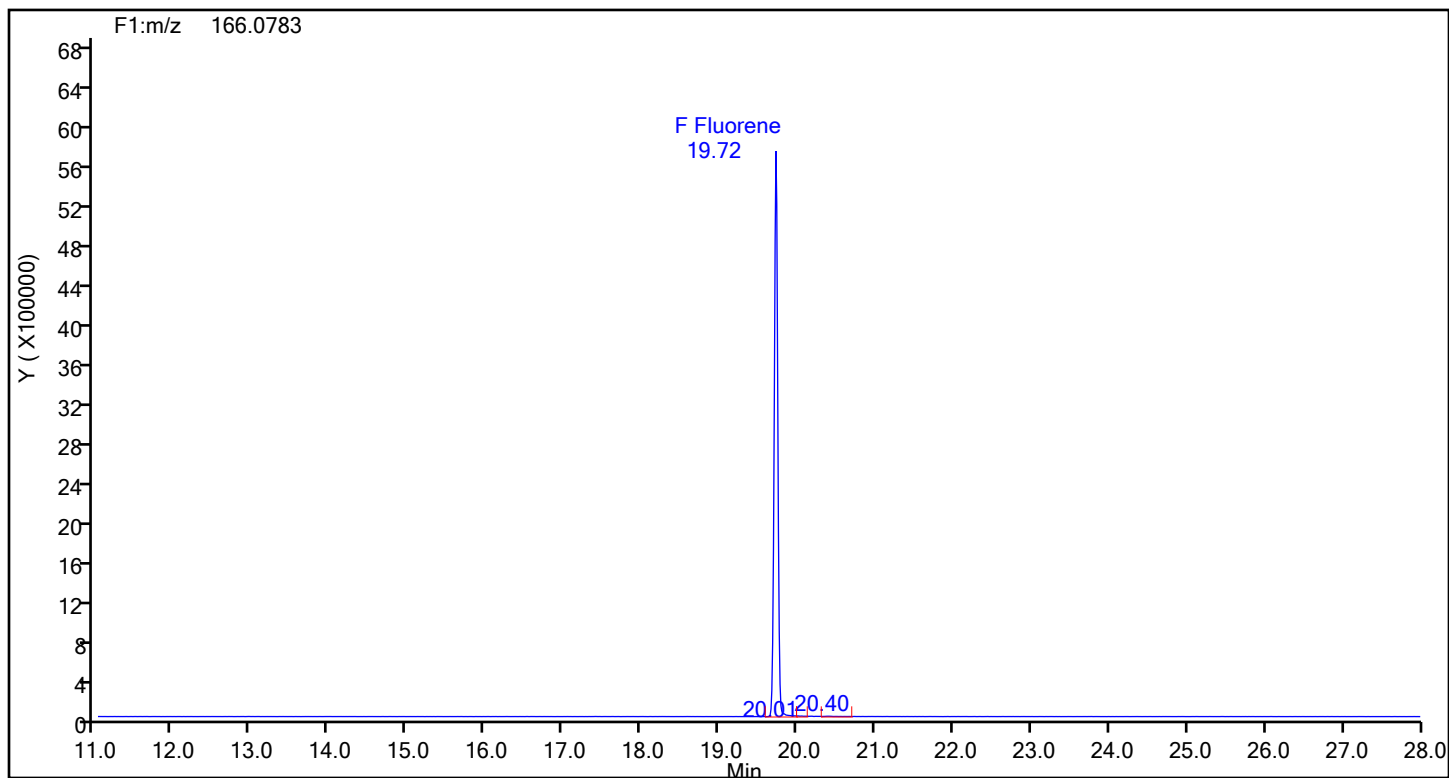
## Acenaphthene Standards



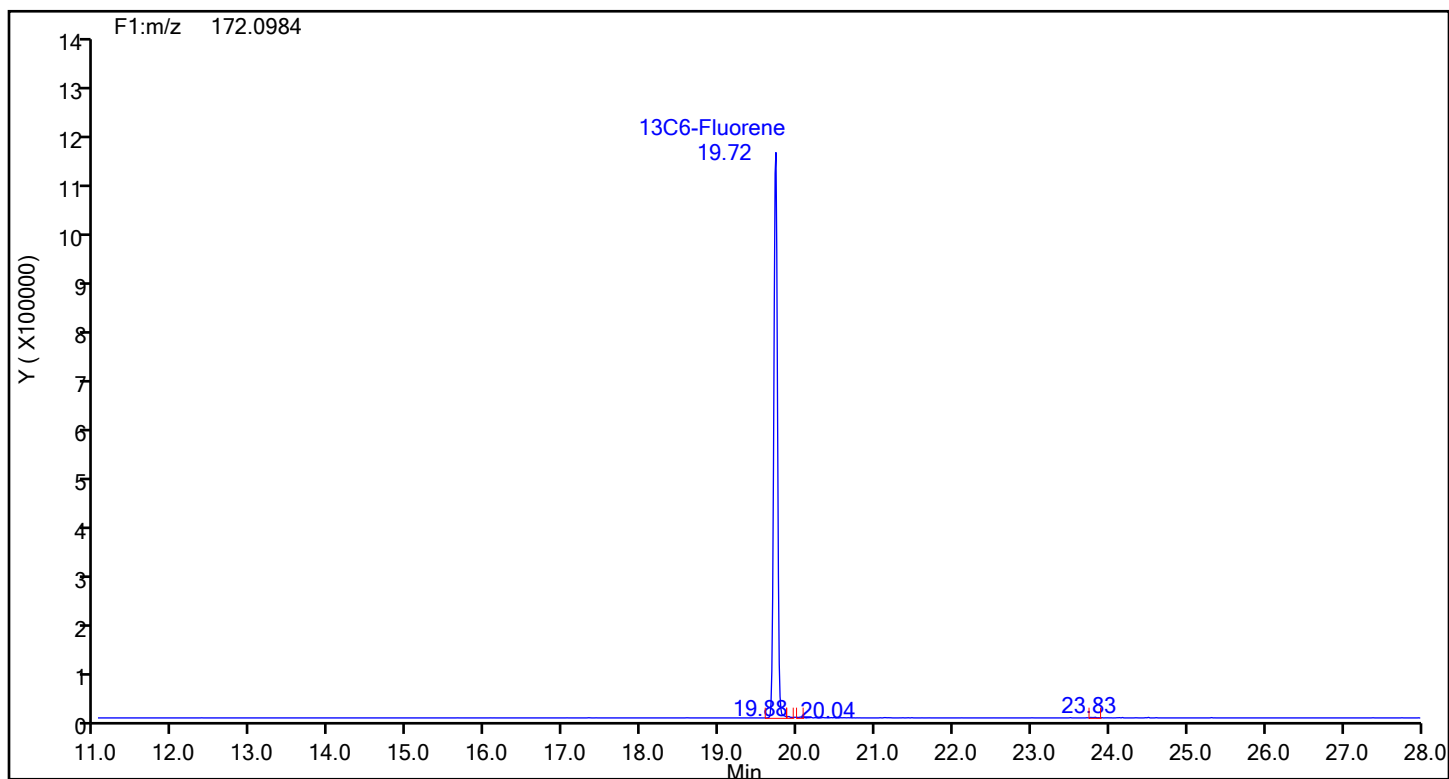
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## Fluorene

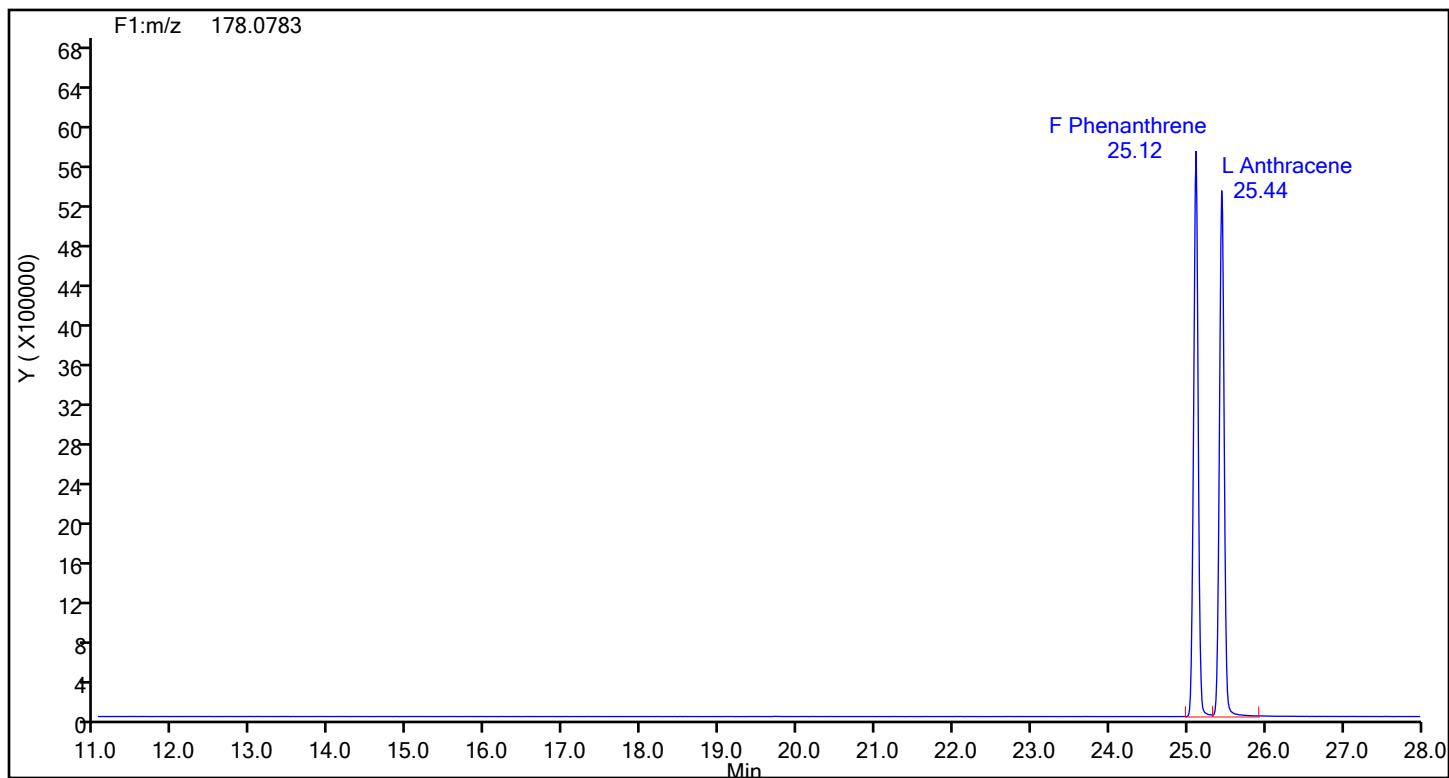


## Fluorene Standards

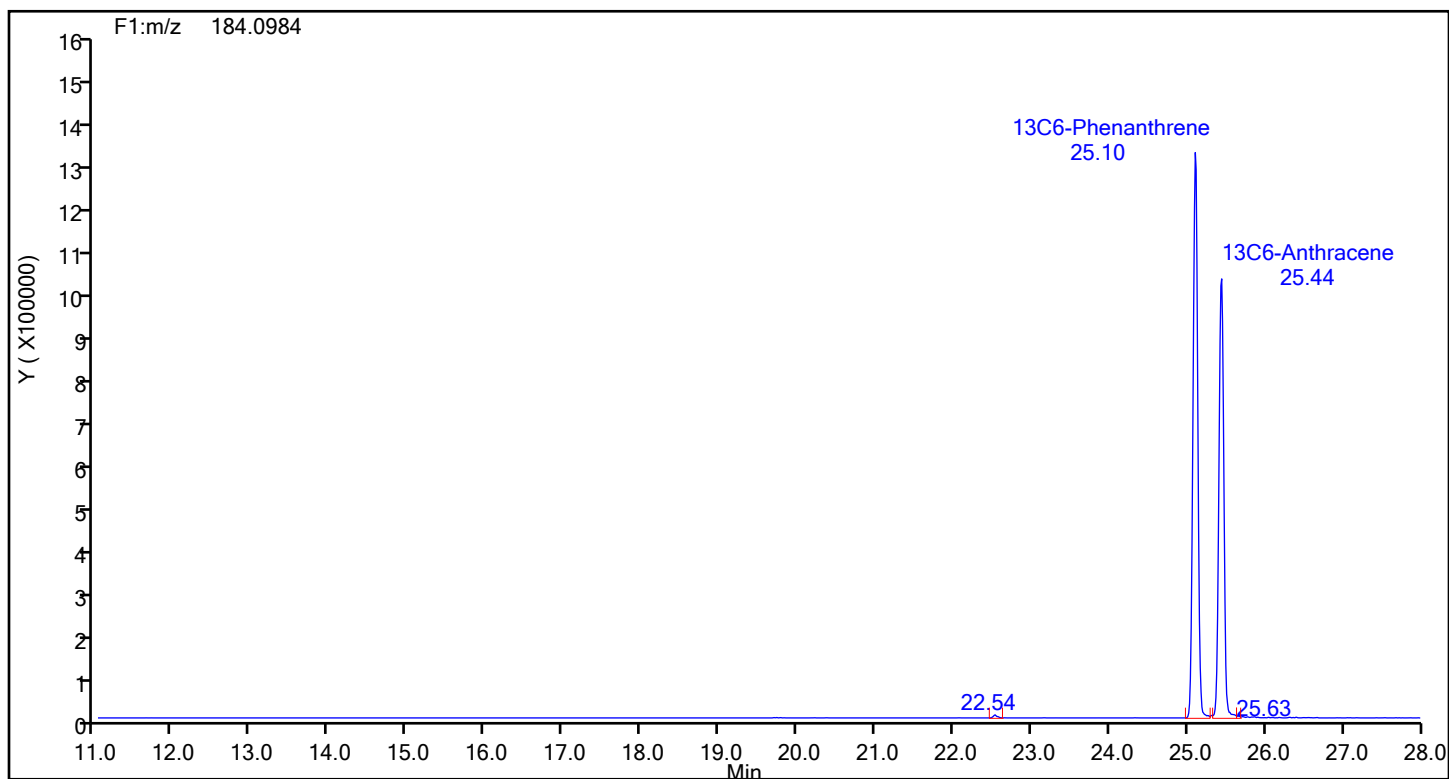


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Phenanthrene

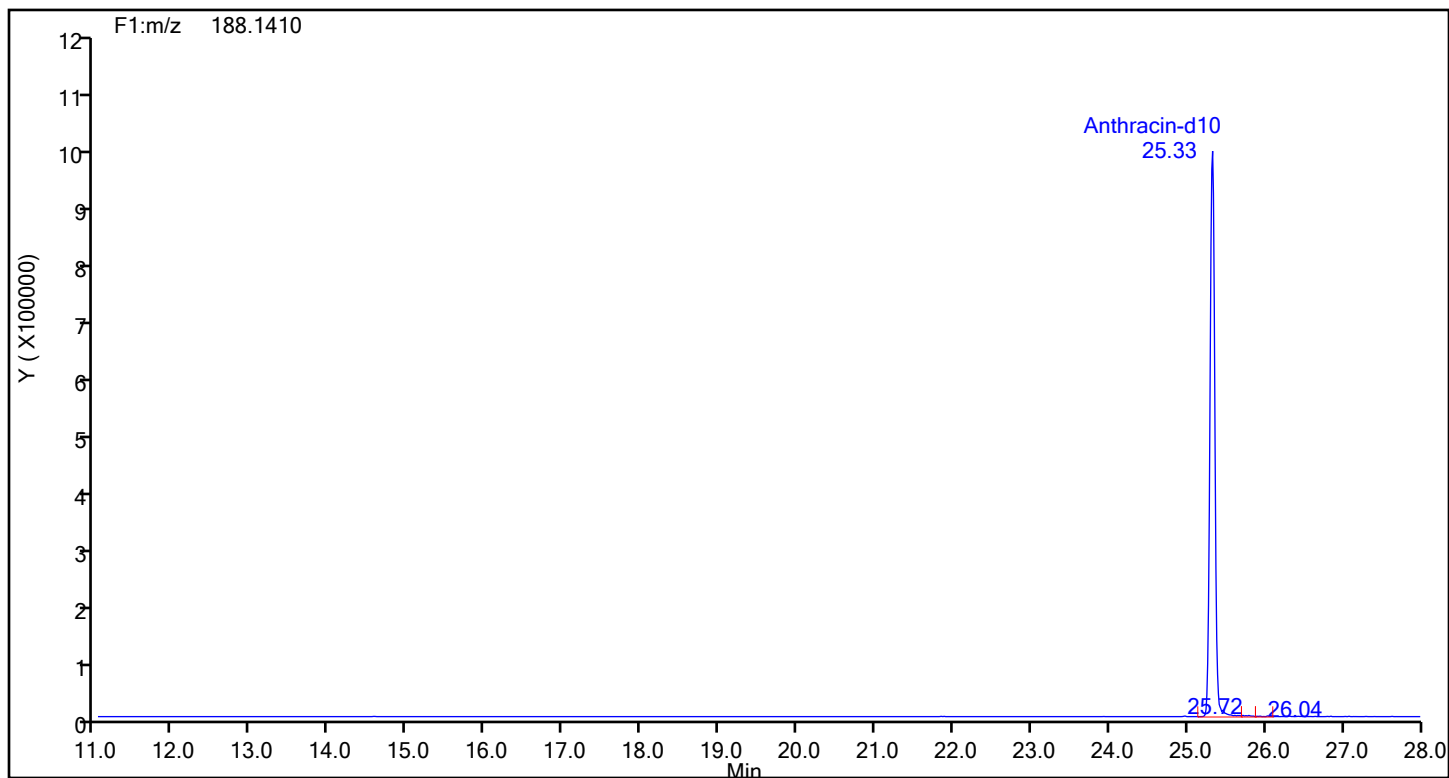


## Phenanthrene Standards

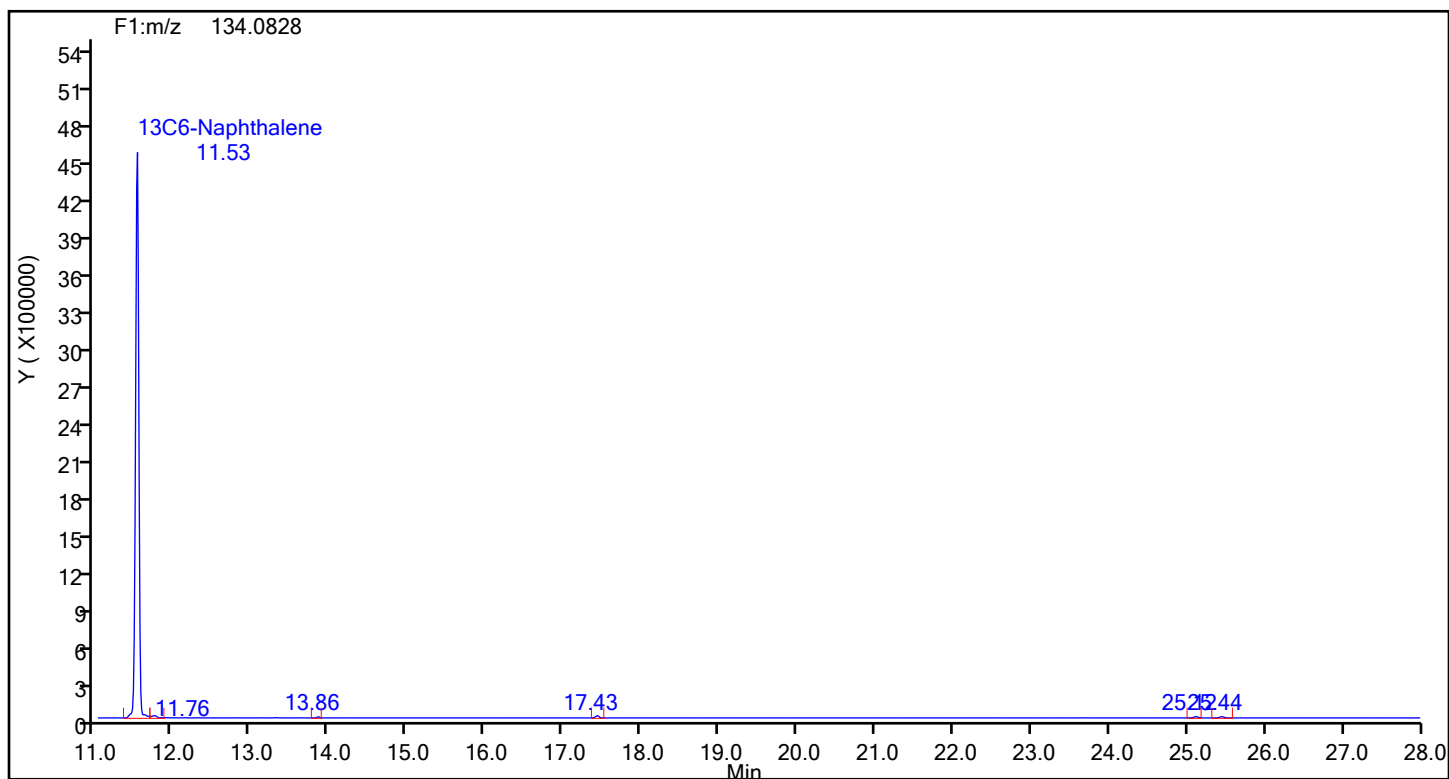


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Anthracin-d10



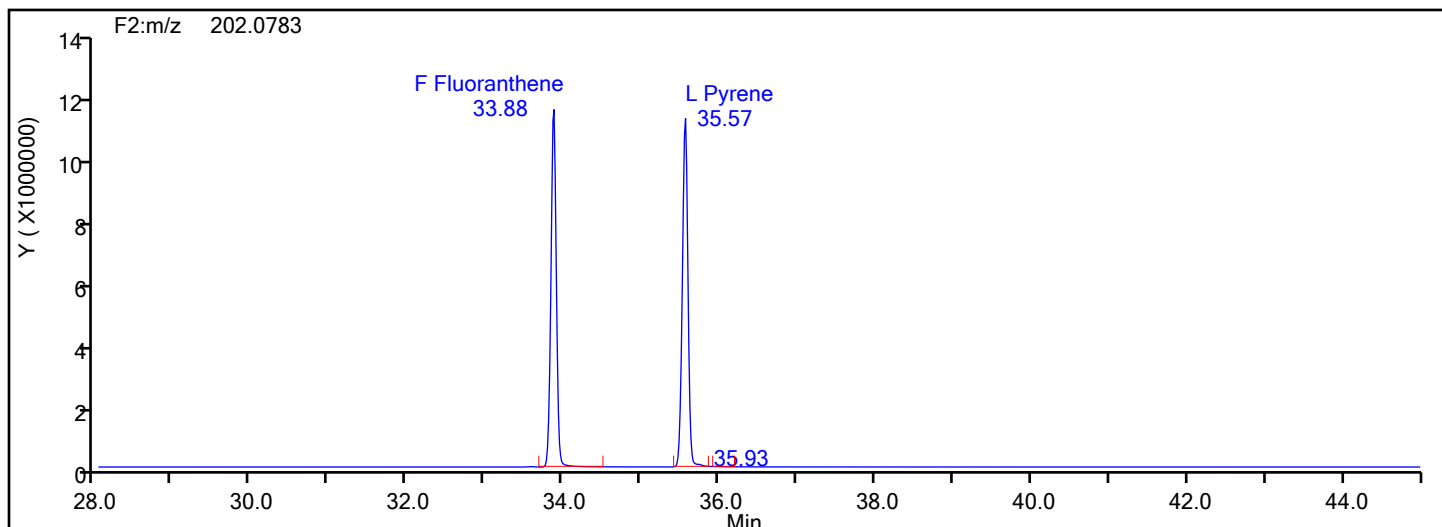
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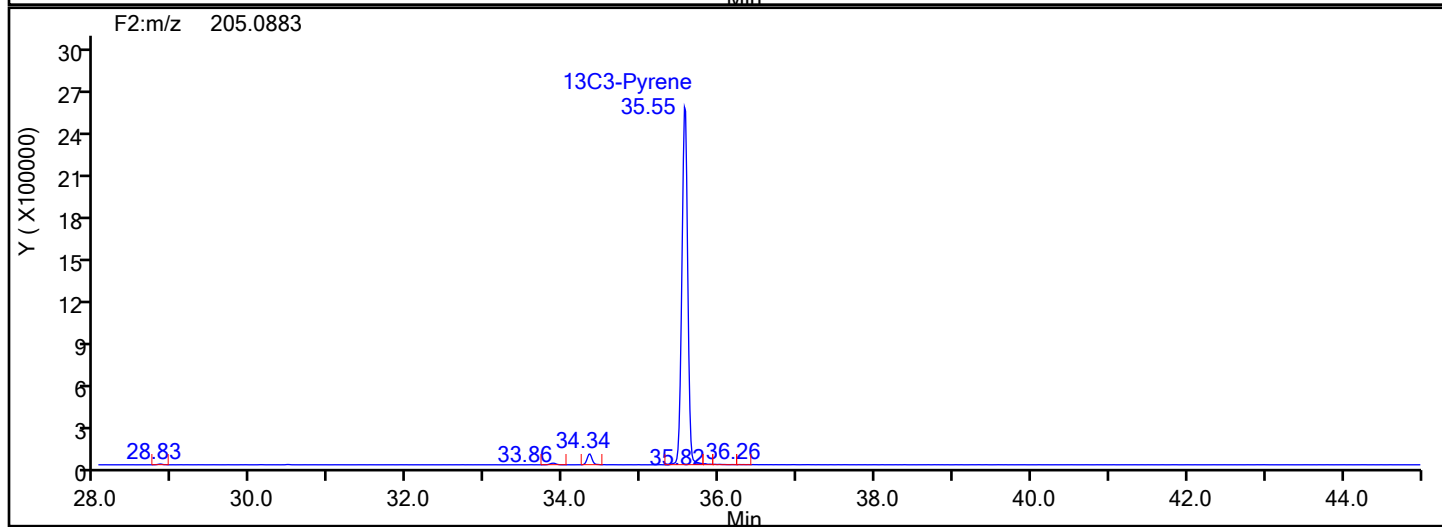
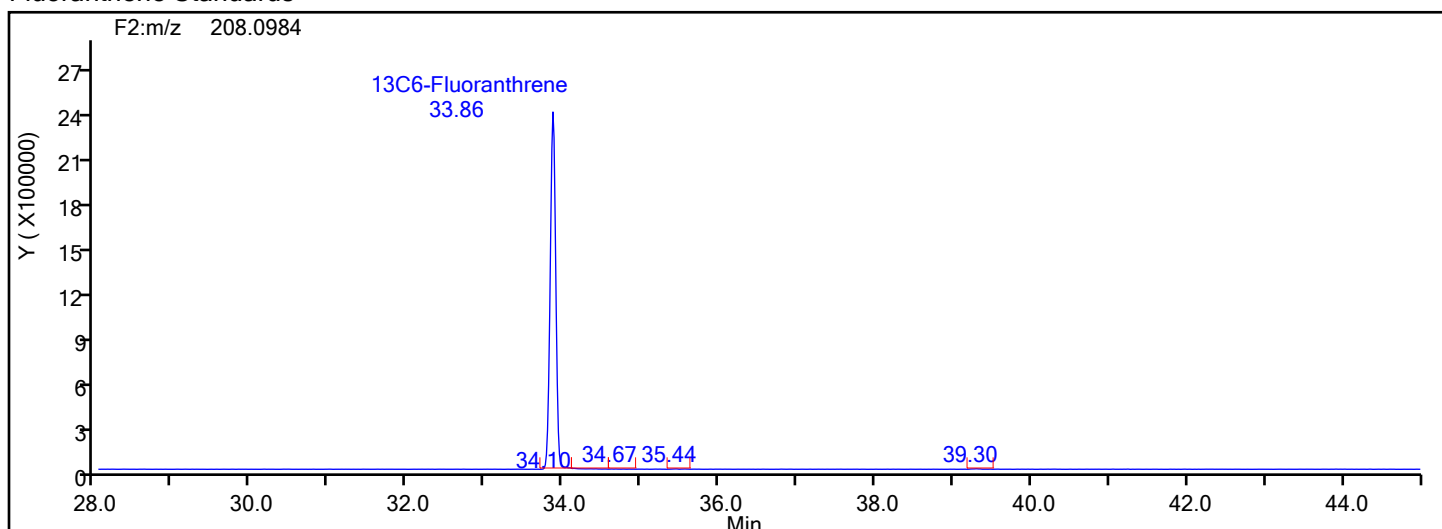


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Fluoranthene



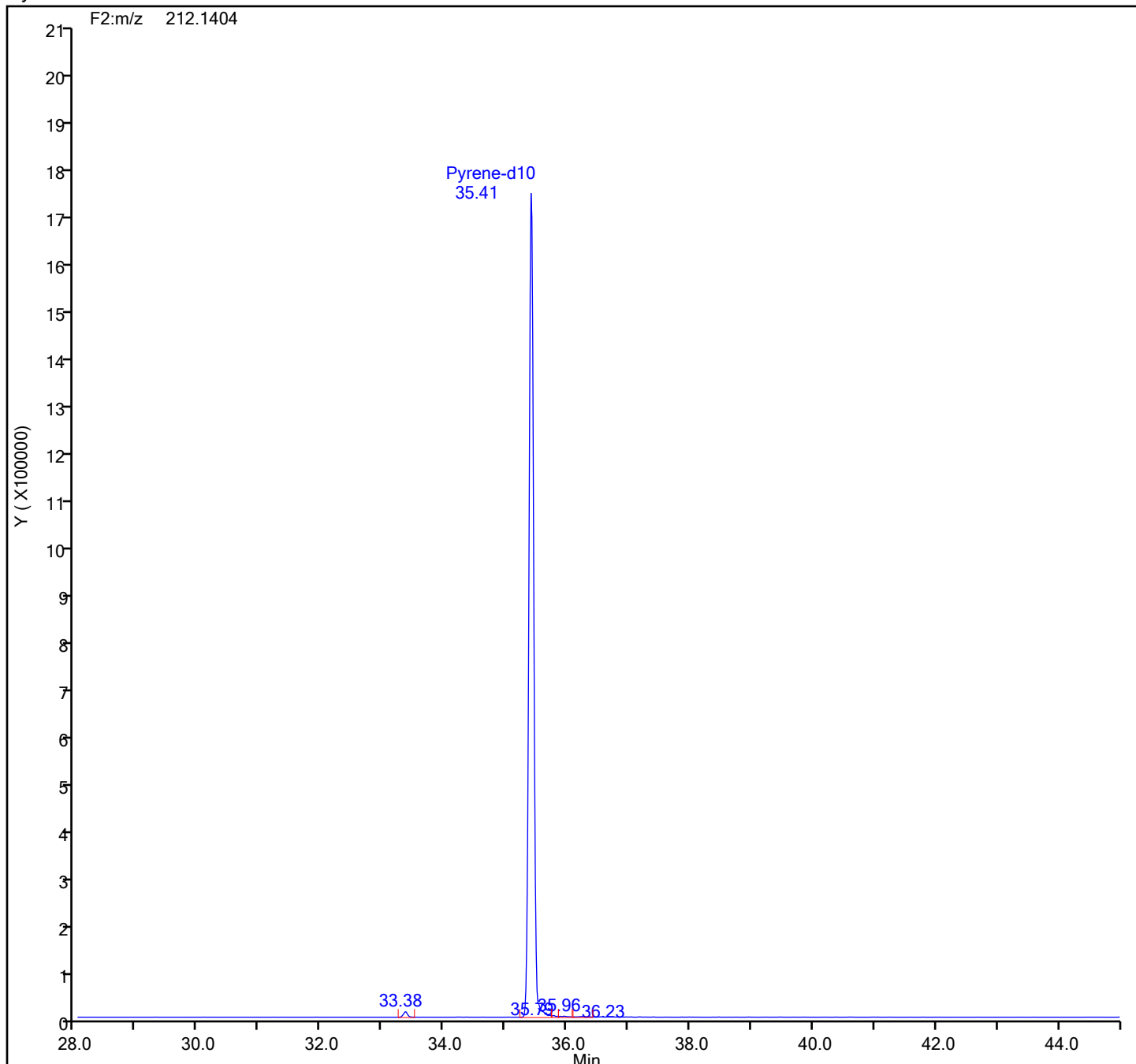
## Fluoranthene Standards



## Eurofins Knoxville

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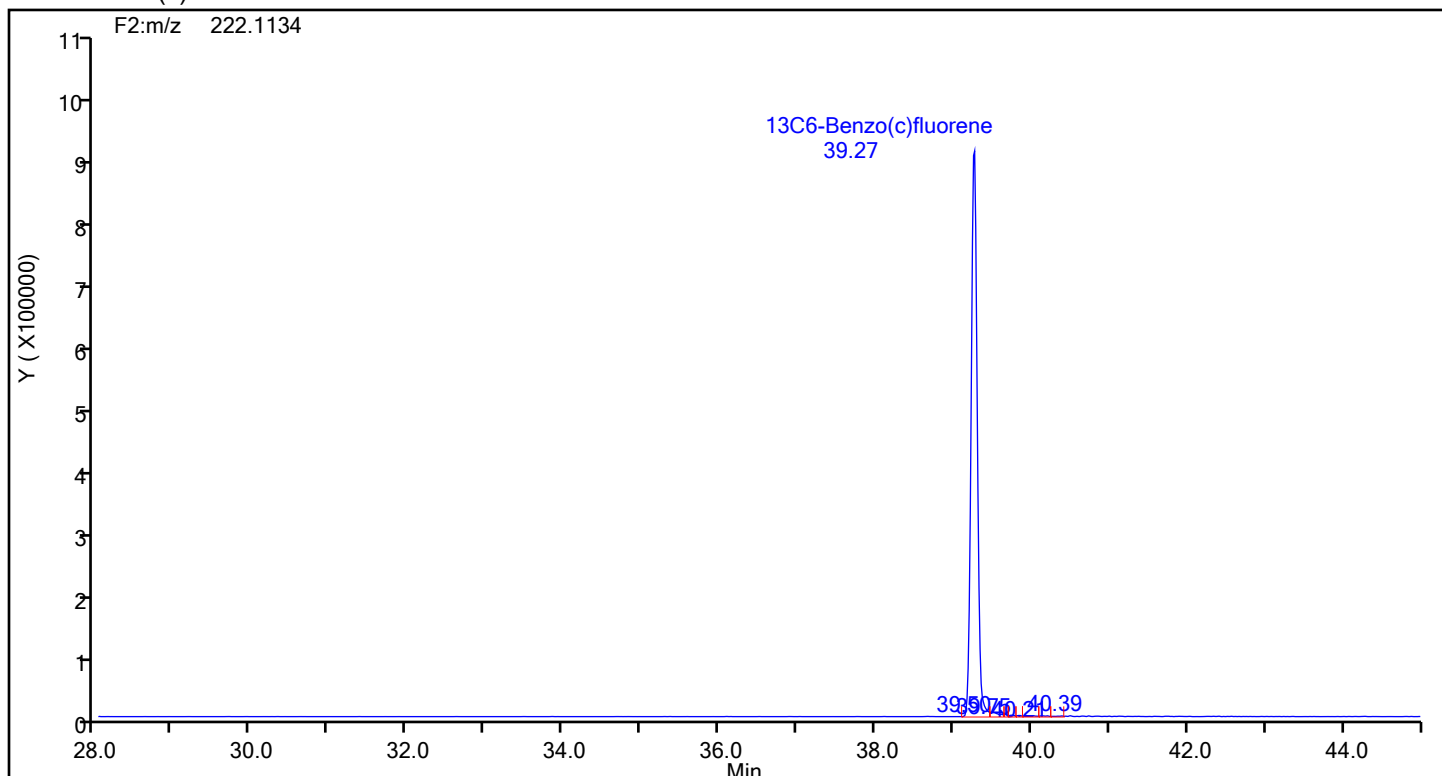
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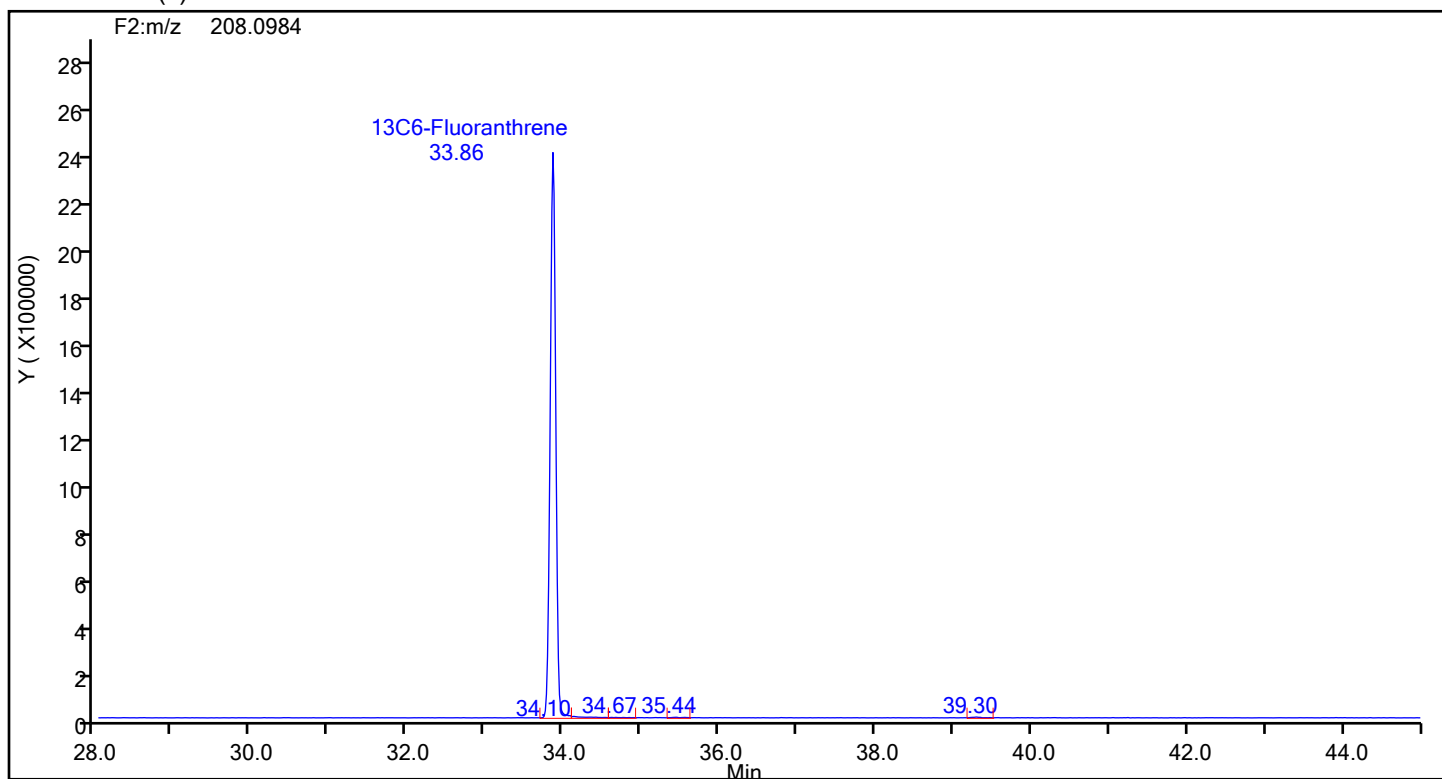
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



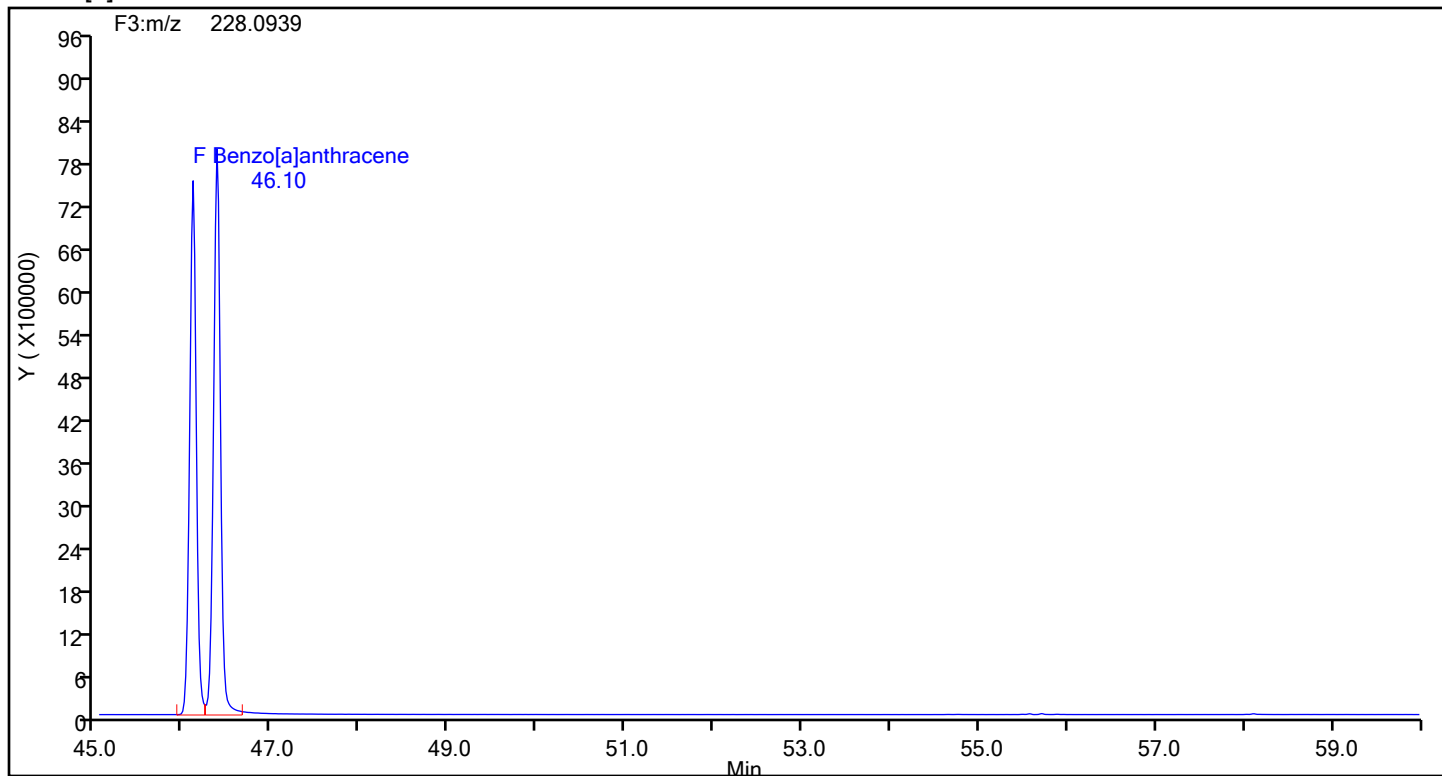
## 13C6-Benzo(c)fluorene Standards



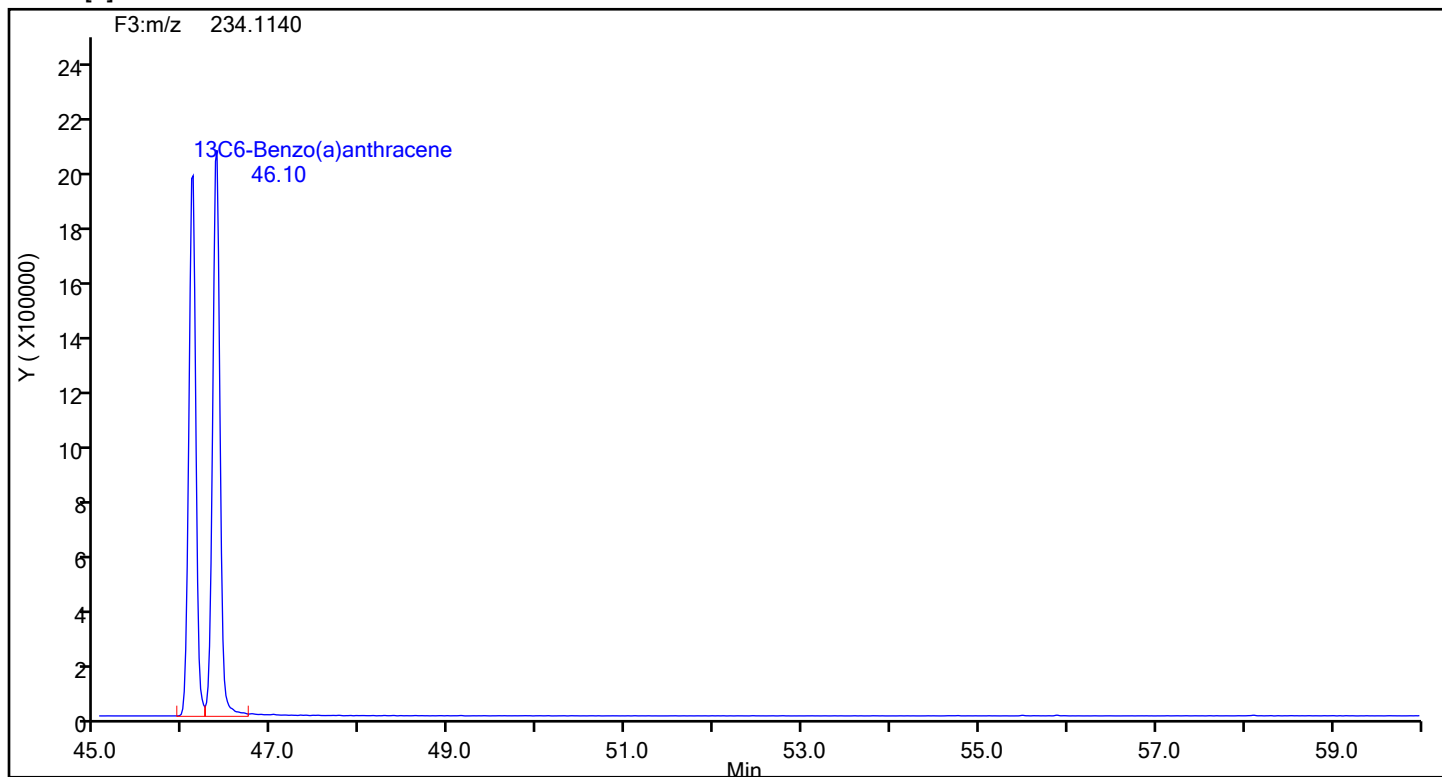
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



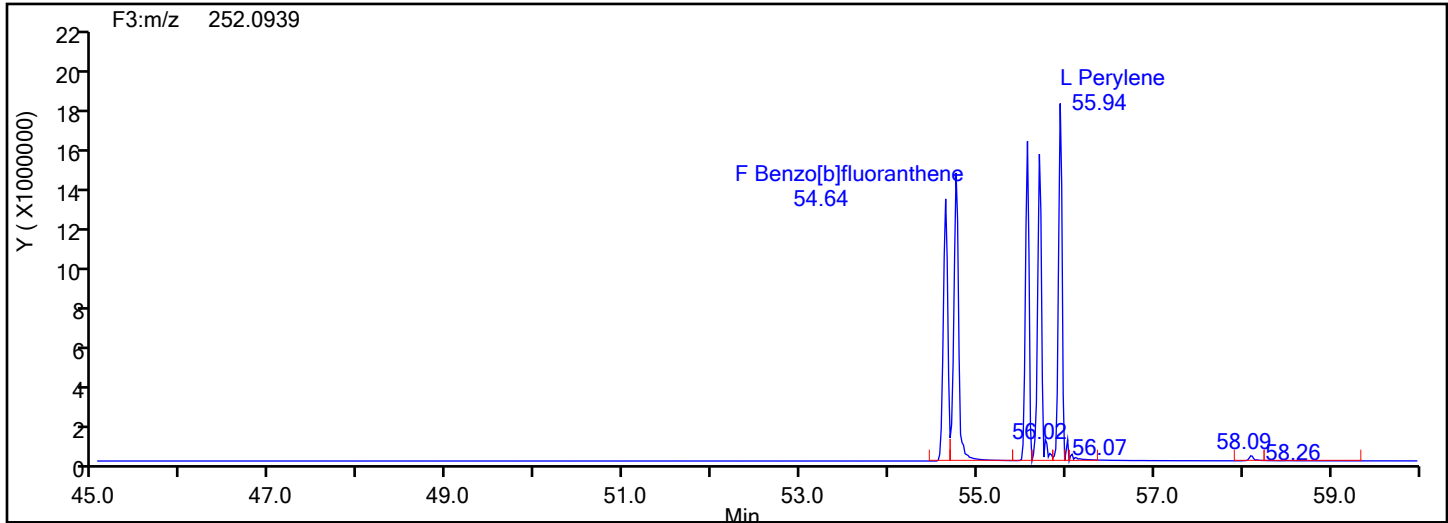
## Benzo[a]anthracene Standards



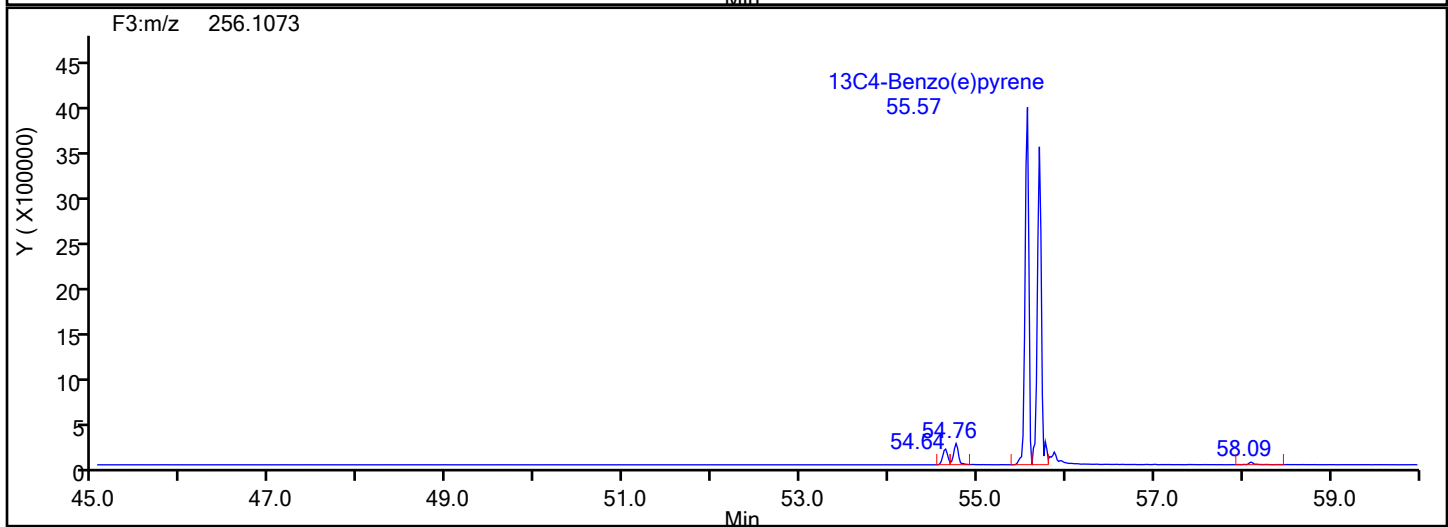
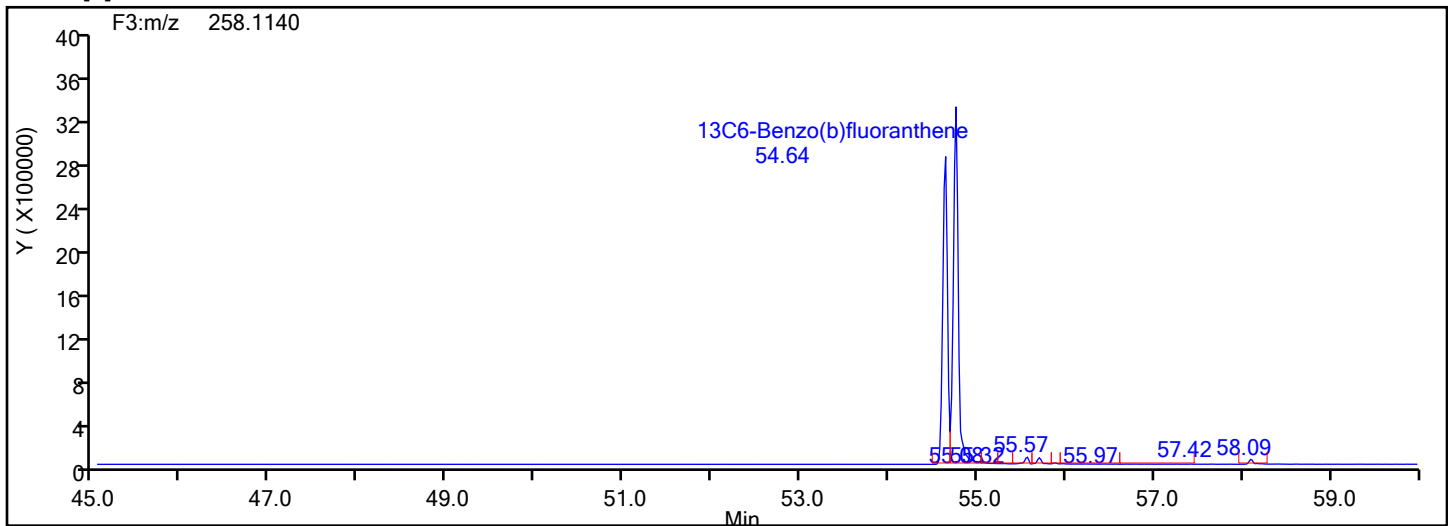
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



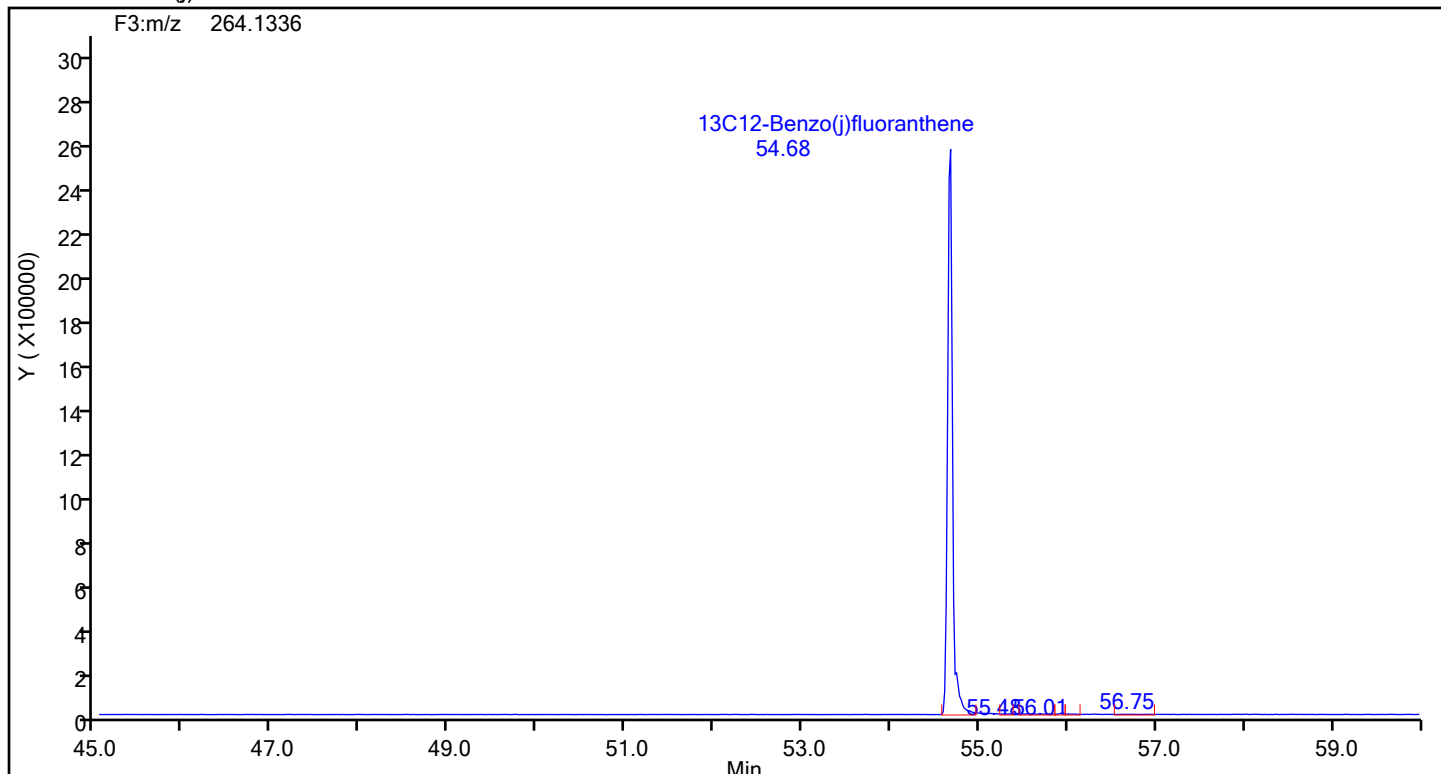
## Benzo[b]fluoranthene Standards



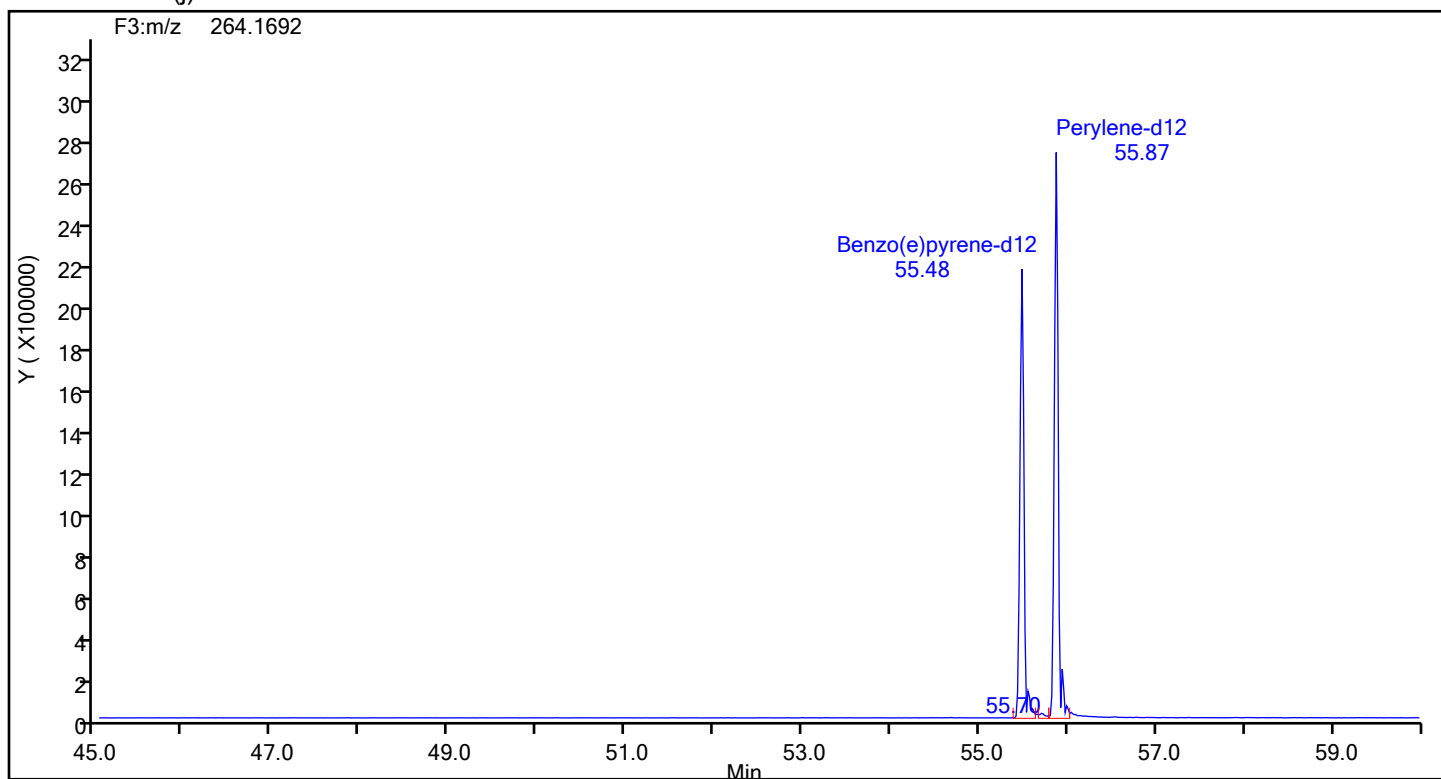
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



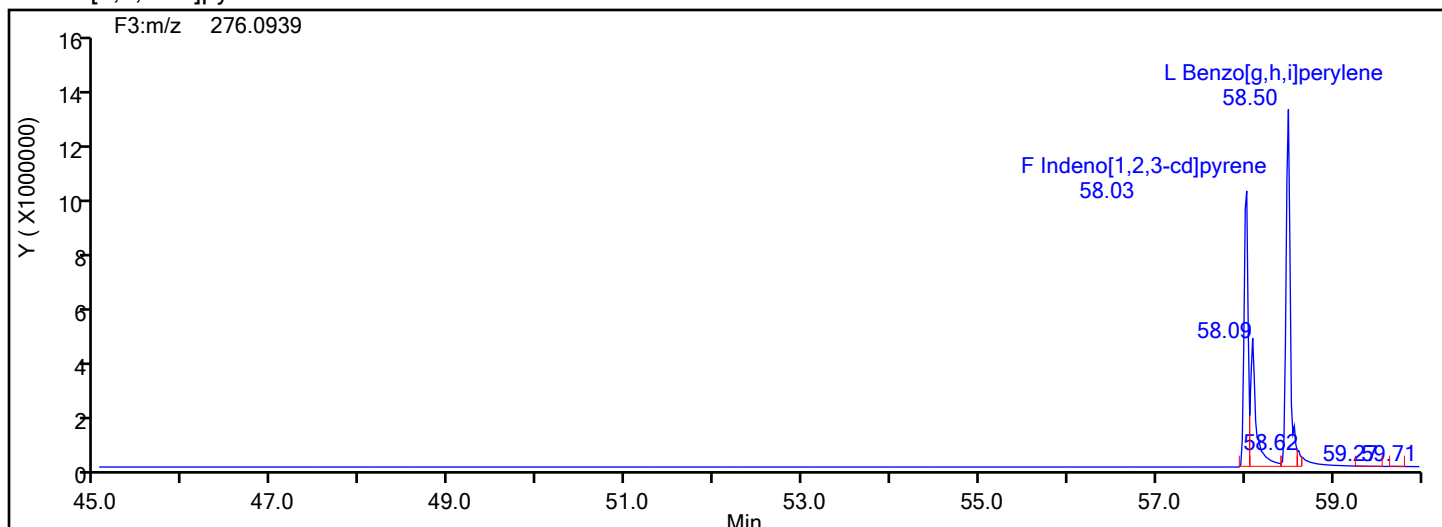
## 13C12-Benzo(j)fluoranthene Standards



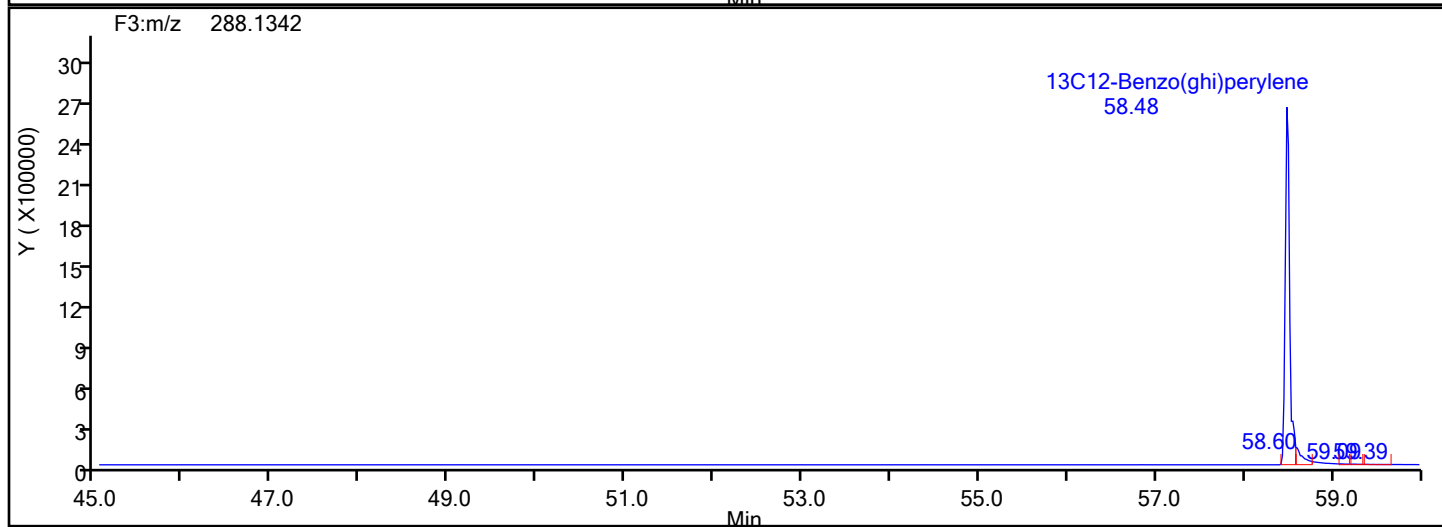
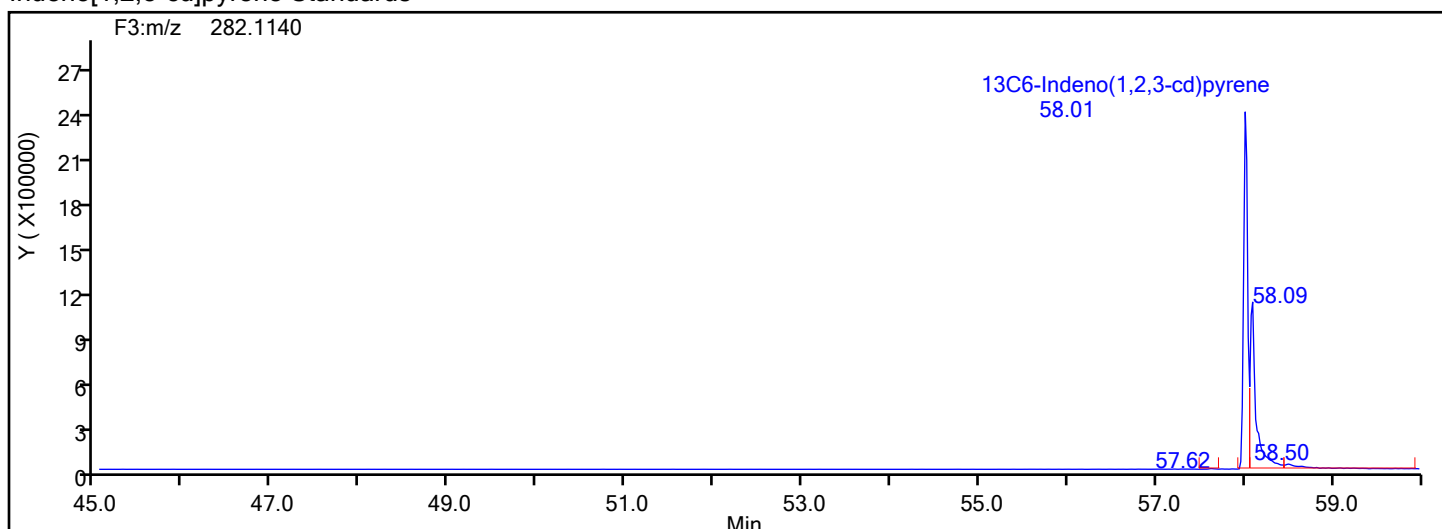
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

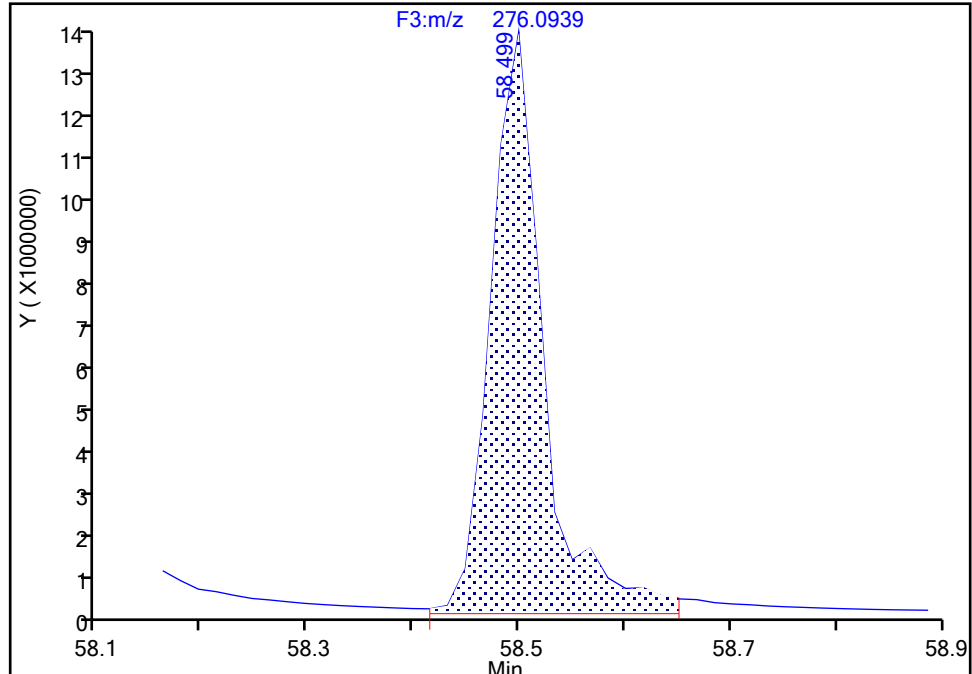
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Instrument ID: D3PAH  
Lims ID: IC L8  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

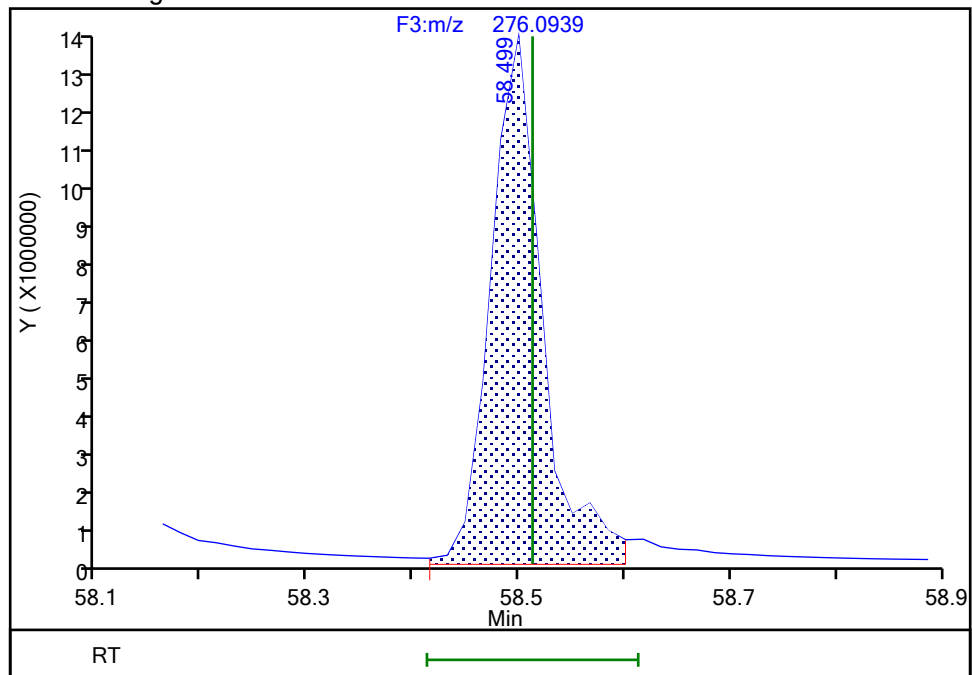
RT: 58.50  
Area: 45816007  
Amount: 385.7539  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.50  
Area: 44647127  
Amount: 375.9607  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:06 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration



## Eurofins Knoxville

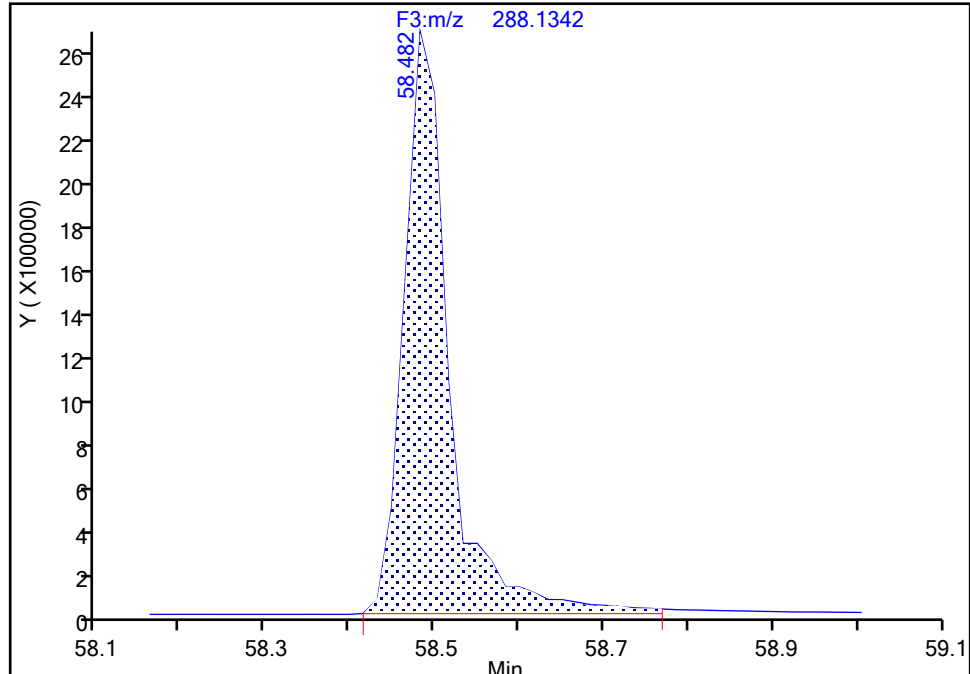
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Instrument ID: D3PAH  
Lims ID: IC L8  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C12-Benzo(ghi)perylene, CAS: 350820-11-0**

Signal: 1

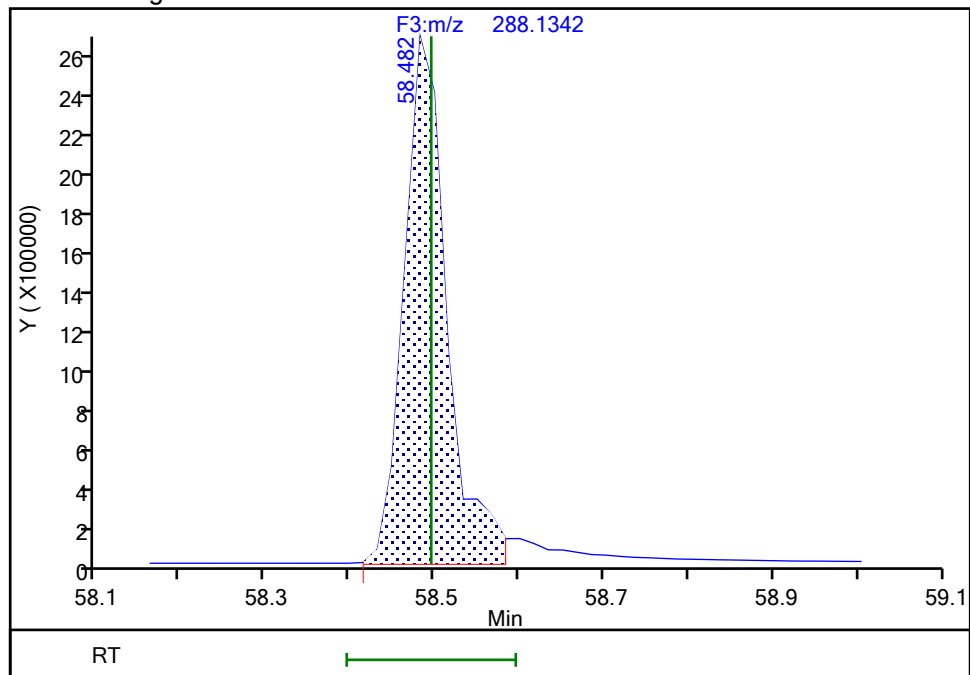
RT: 58.48  
Area: 9855389  
Amount: 110.4885  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.48  
Area: 9250572  
Amount: 105.1009  
Amount Units: pg/ul

## Manual Integration Results



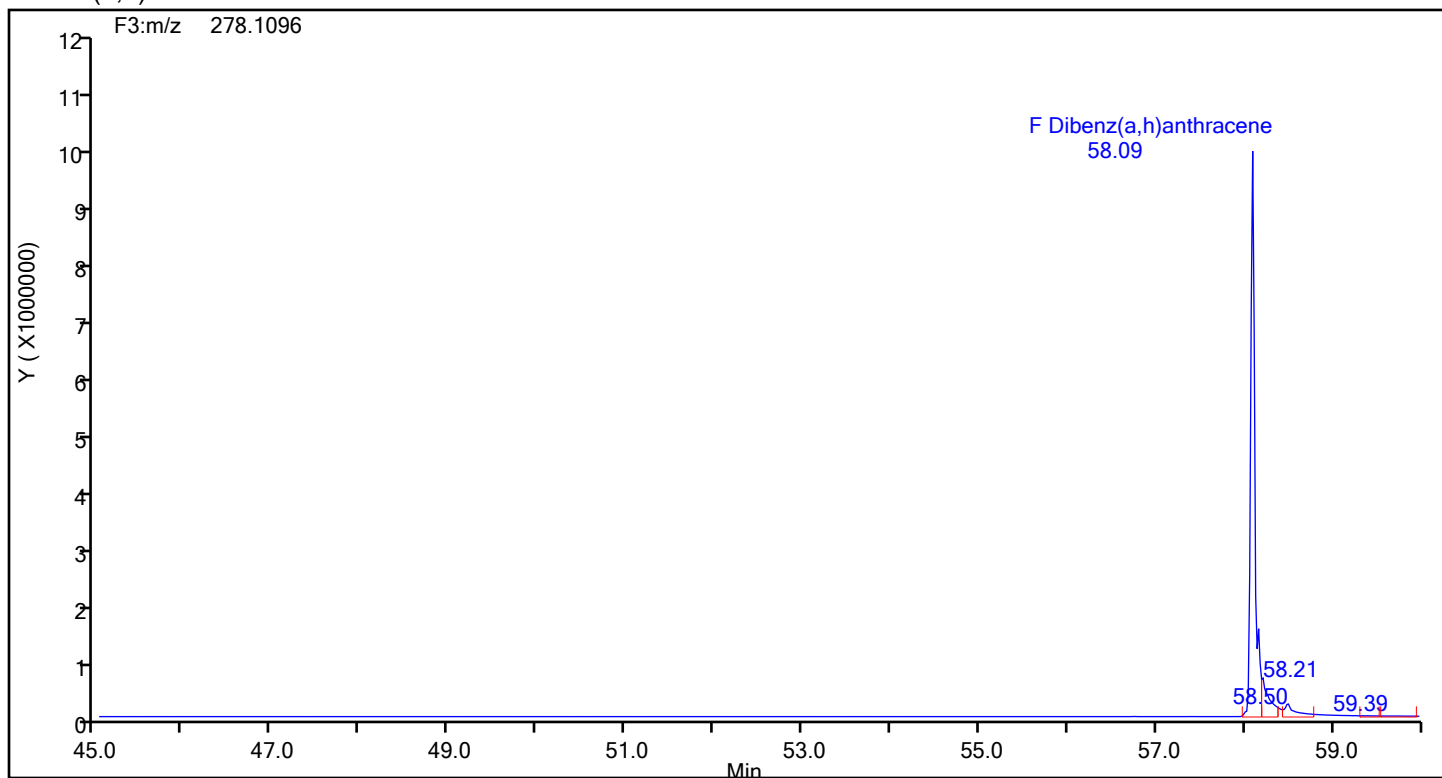
Reviewer: F9EE, 20-Jun-2024 09:39:00 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

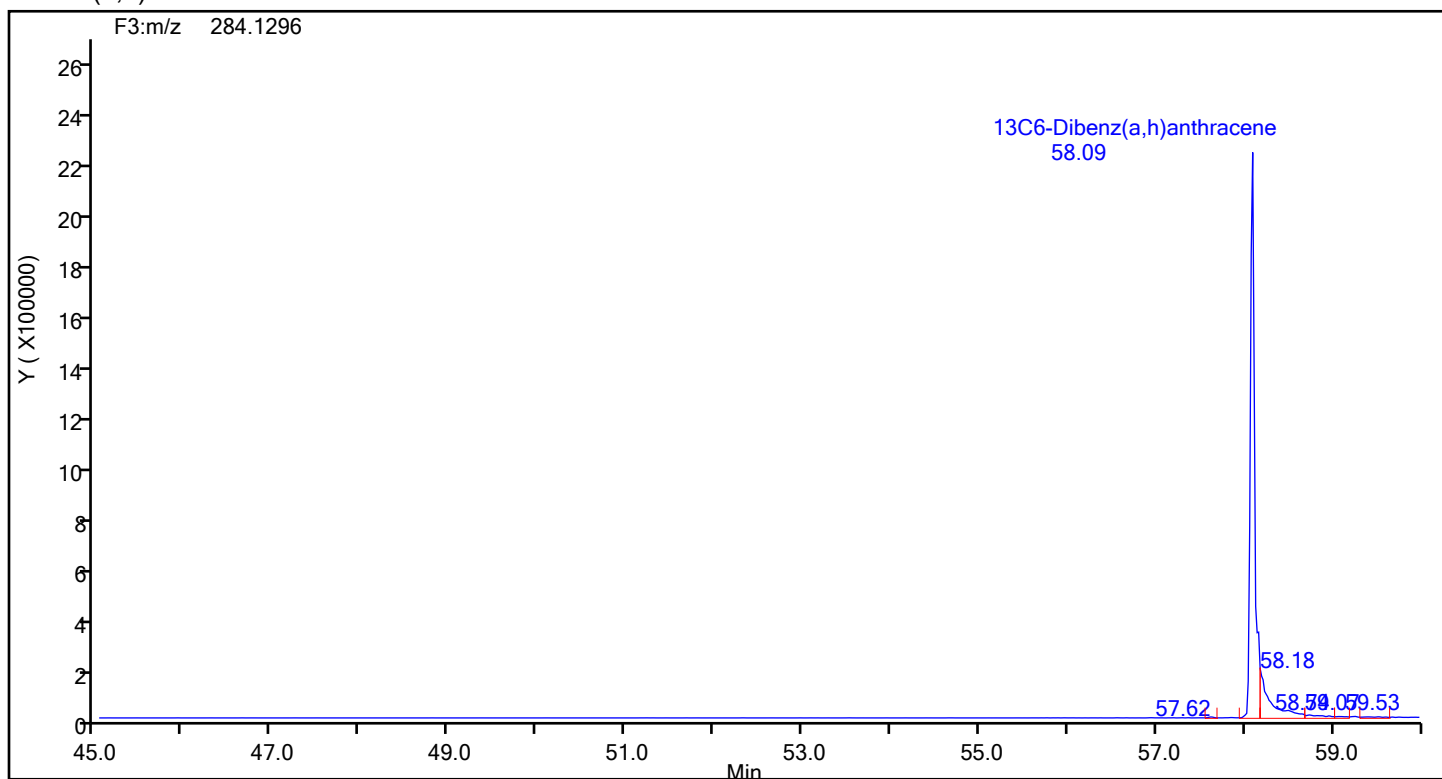
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Dibenz(a,h)anthracene



## Dibenzo(a,h)anthracene Standards



## Eurofins Knoxville

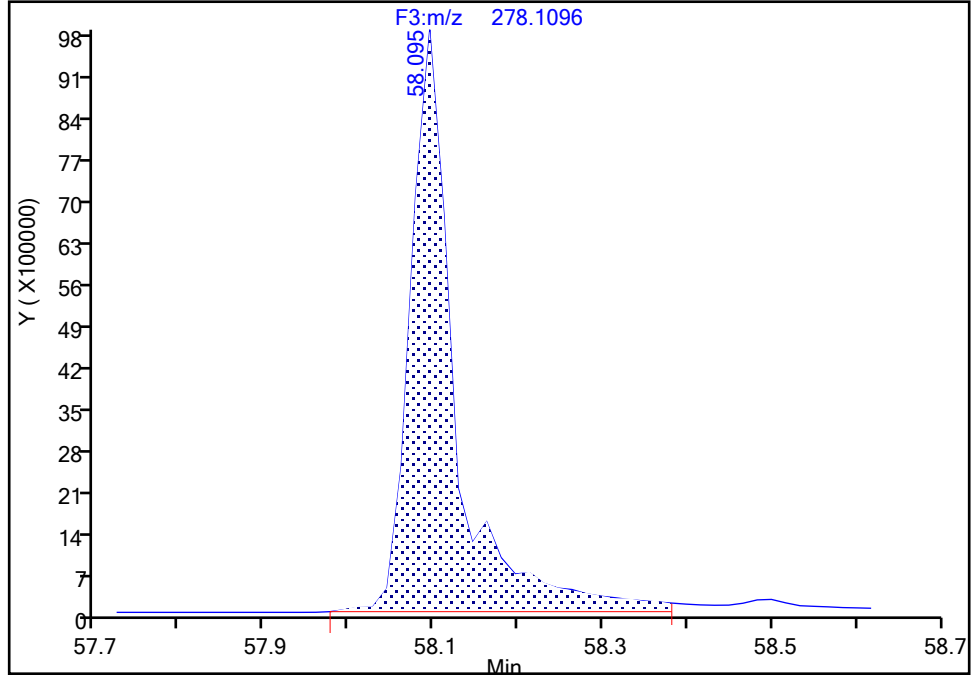
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Instrument ID: D3PAH  
Lims ID: IC L8  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**Dibenz(a,h)anthracene, CAS: 53-70-3**

Signal: 1

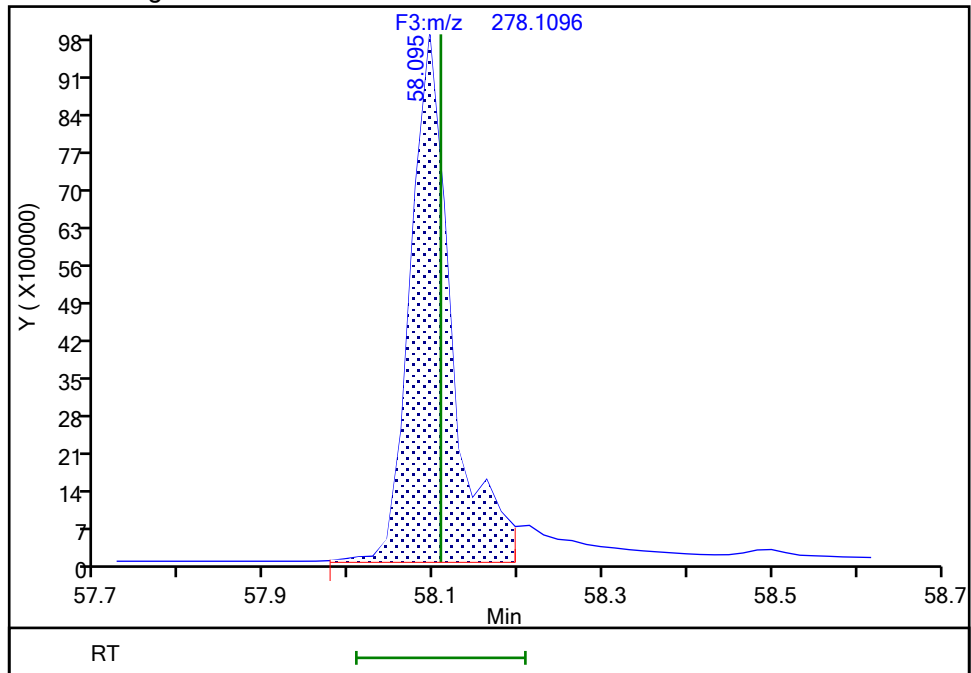
RT: 58.09  
Area: 36901922  
Amount: 419.5312  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.09  
Area: 33420949  
Amount: 383.8488  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

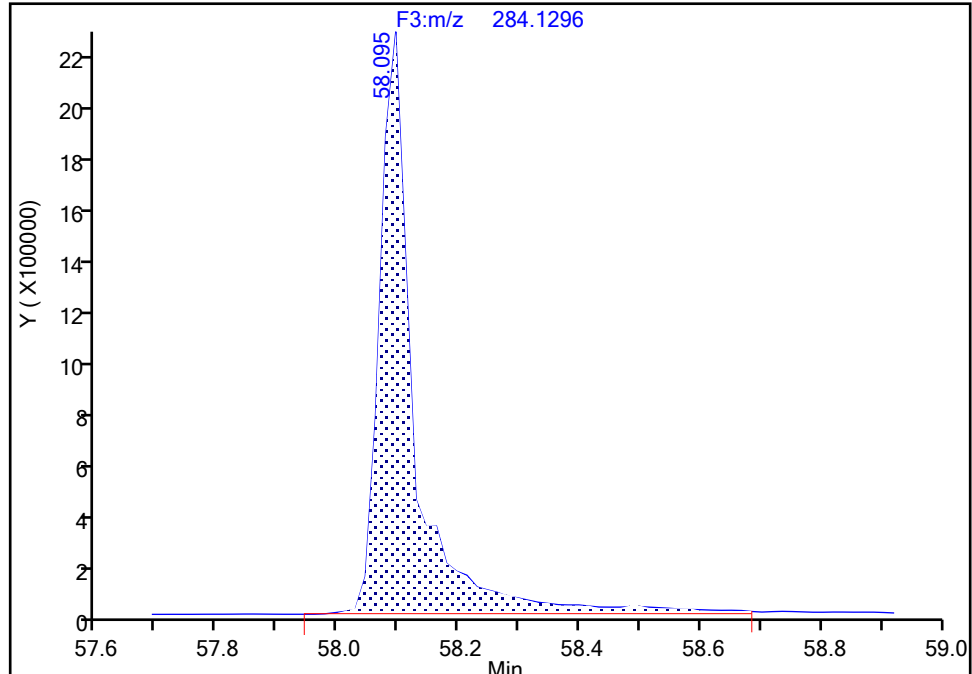
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic8.d  
Injection Date: 20-Jun-2024 00:04:00 Instrument ID: D3PAH  
Lims ID: IC L8  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Dibenz(a,h)anthracene, CAS: ST03360**

Signal: 1

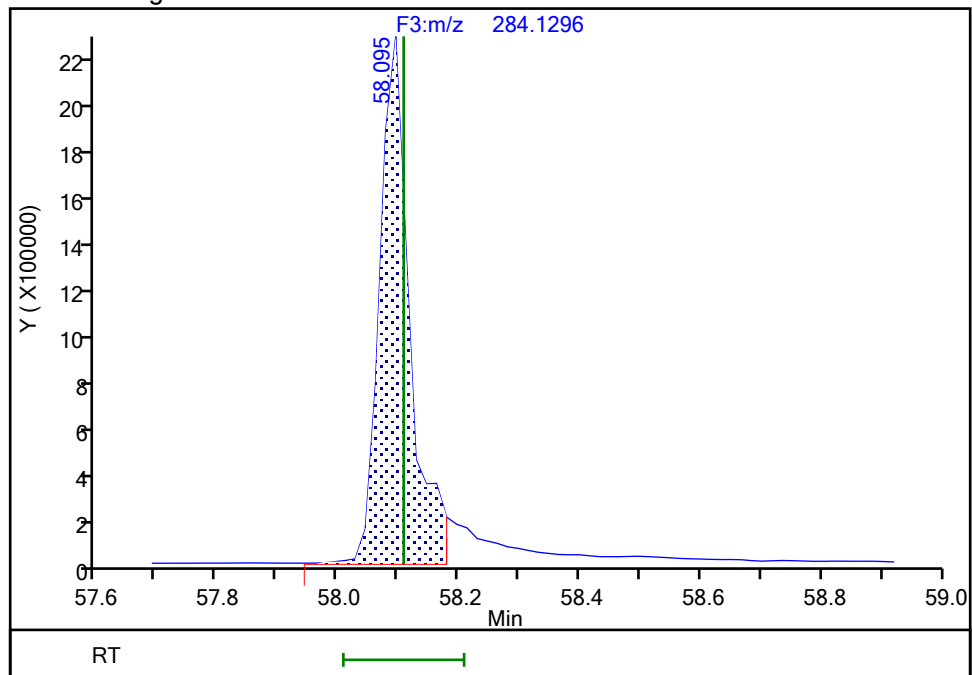
RT: 58.09  
Area: 9058656  
Amount: 120.2342  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.09  
Area: 7695778  
Amount: 105.6318  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:38:47 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Lims ID: IC L9  
Client ID:  
Sample Type: IC Calib Level: 9  
Inject. Date: 20-Jun-2024 01:09:00 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-009  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 20-Jun-2024 09:52:02 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:47:32

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:32	14774767		3.3746	95.0	95.0	0.005180	0.005180	95.01	
Naphthalene	11:32	201858027		1.2893	1059.7	1059.7	0.0781	0.0781	106	
D 13C6-2-Methylnaphthalene	13:51	7285064		1.6031	98.6	98.6	0.000456	0.000456	98.62	
2-Methylnaphthalene	13:51	98360151		1.2786	1056.0	1056.0	0.0146	0.0146	106	
D 13C6-Acenaphthylene	16:43	7859583		1.6520	103.2	103.2	0.001106	0.001106	103	
Acenaphthylene	16:44	121166606		2.3661	1098.3	1098.3	0.0245	0.0245	110	
* Acenaphthene-d10	17:18	4608161		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:25	4662594		0.9792	103.3	103.3	0.000933	0.000933	103	
Acenaphthene	17:26	59890100		1.2697	1011.7	1011.7	0.0255	0.0255	101	
D 13C6-Fluorene	19:43	4314043		0.8898	105.2	105.2	0.000342	0.000342	105	
Fluorene	19:43	55690348		1.2532	1030.1	1030.1	0.0231	0.0231	103	
D 13C6-Phenanthrene	25:06	6524734		0.5724	114.5	114.5	0.000939	0.000939	115	
Phenanthrene	25:06	72771385		1.1044	1009.8	1009.8	0.0255	0.0255	101	
\$ Anthracin-d10	25:19	4574361		0.4257	108.0	108.0	0.001262	0.001262	108	
D 13C6-Anthracene	25:26	5177443		0.4523	115.0	115.0	0.001188	0.001188	115	
Anthracene	25:26	71918449		1.3586	1022.4	1022.4	0.0260	0.0260	102	
D 13C6-Fluoranthrene	33:51	13148739		1.1994	110.1	110.1	0.0166	0.0166	110	
Fluoranthene	33:52	162763939		1.1513	1075.2	1075.2	0.0208	0.0208	108	
* Pyrene-d10	35:24	9953605		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:33	15391681		1.3512	114.4	114.4	0.009623	0.009623	114	
Pyrene	35:33	171639473		1.0652	1046.9	1046.9	0.0202	0.0202	105	
\$ 13C6-Benzo(c)fluorene	39:15	4981238		0.5136	97.4	97.4	0.002825	0.002825	97.44	
D 13C6-Benzo(a)anthracene	46:05	12260100		1.5189	111.9	111.9	0.0105	0.0105	112	
Benzo[a]anthracene	46:05	124165534		0.9739	1039.9	1039.9	0.0444	0.0444	104	
D 13C6-Chrysene	46:21	13421719		1.6287	114.3	114.3	0.009785	0.009785	114	
Chrysene	46:21	134817195		0.9815	1023.5	1023.5	0.0409	0.0409	102	
D 13C6-Benzo(b)fluoranthene	54:38	12410189		1.4621	117.7	117.7	0.000950	0.000950	118	
Benzo[b]fluoranthene	54:38	155779264		1.1249	1115.9	1115.9	0.005269	0.005269	112	
\$ 13C12-Benzo(j)fluoranthene	54:40	11887745		1.3558	121.6	121.6	0.0121	0.0121	122	
D 13C6-Benzo(k)fluoranthene	54:45	16130058		1.7507	127.8	127.8	0.000794	0.000794	128	
Benzo[k]fluoranthene	54:46	180500584		1.1271	992.9	992.9	0.004443	0.004443	99.29	
* Benzo(e)pyrene-d12	55:28	7211924		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:33	14222064		1.6368	120.5	120.5	0.009604	0.009604	120	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:33	156044174		1.0013	1095.8	1095.8	0.004323	0.004323	110	
Benzo[a]pyrene	55:42	158831908		1.1130	985.6	985.6	0.004552	0.004552	98.56	
D 13C4-Benzo(a)pyrene	55:41	14479273		1.5508	129.5	129.5	0.0101	0.0101	129	
D Perylene-d12	55:52	9436646		1.1917	109.8	109.8	0.0128	0.0128	110	
Perylene	55:57	179211720		1.4307	1327.4	1327.4	0.005164	0.005164	133	
D 13C6-Indeno(1,2,3-cd)pyrene	58:01	8585756		1.0218	116.5	116.5	0.007947	0.007947	117	
Indeno[1,2,3-cd]pyrene	58:01	113067905		1.1249	1170.7	1170.7	0.006481	0.006481	117	M
D 13C6-Dibenz(a,h)anthracene	58:05	9436274		1.0553	124.0	124.0	0.005350	0.005350	124	M
Dibenz(a,h)anthracene	58:05	110582572		1.1314	1035.8	1035.8	0.005350	0.005350	104	M
D 13C12-Benzo(ghi)perylene	58:29	11042946		1.2749	120.1	120.1	0.003985	0.003985	120	M
Benzo[g,h,i]perylene	58:29	147488032		1.2838	1040.4	1040.4	0.004891	0.004891	104	M

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

## Reagents:

61HRPAHCS7\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Lims ID: IC L9  
Client ID:  
Sample Type: IC Calib Level: 9  
Inject. Date: 20-Jun-2024 01:09:00 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-009  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 20-Jun-2024 09:52:02 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1686

First Level Reviewer: F9EE

Date: 20-Jun-2024 09:47:32

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:32	11:33	-1	0.666	14774767	5075353	115	287	44134		
Naphthalene											
128.0626	11:32	11:34	-2	1.000	201858027	75720333	2044	5110	37045		
13C6-2-Methylnaphthalene											
148.0984	13:51	13:52	-1	0.800	7285064	3487207	5	12	697441		
2-Methylnaphthalene											
142.0783	13:51	13:53	-2	1.000	98360151	48803300	260	650	187705		
13C6-Acenaphthylene											
158.0828	16:43	16:45	-2	0.966	7859583	2853768	12	30	237814		
Acenaphthylene											
152.0626	16:44	16:45	-1	1.000	121166606	45941648	377	942	121861		
Acenaphthene-d10											
164.1404	17:18	17:20	-2		4608161	1641835	1	2	1641835		
13C6-Acenaphthene											
160.0984	17:25	17:27	-2	1.007	4662594	1626235	6	15	271039		
Acenaphthene											
154.0783	17:26	17:27	-1	1.001	59890100	22203742	211	527	105231		
13C6-Fluorene											
172.0984	19:43	19:45	-2	1.139	4314043	1349147	2	5	674574		
Fluorene											
166.0783	19:43	19:45	-1	1.001	55690348	17483856	156	390	112076		
13C6-Phenanthrene											
184.0984	25:06	25:08	-2	0.709	6524734	1529385	4	10	382346		
Phenanthrene											
178.0783	25:06	25:08	-2	1.000	72771385	18115584	172	430	105323		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:19	25:21	-3	0.715	4574361	1065461	4	10	266365		
13C6-Anthracene											
184.0984	25:26	25:28	-2	0.718	5177443	1219654	4	10	304914		
Anthracene											
178.0783	25:26	25:28	-2	1.000	71918449	17498624	172	430	101736		
13C6-Fluoranthrene											
208.0984	33:51	33:54	-3	0.956	13148739	2677473	148	370	18091		
Fluoranthene											
202.0783	33:52	33:54	-2	1.000	162763939	35373186	256	640	138177		
Pyrene-d10											
212.1404	35:24	35:27	-3		9953605	1861110	59	147	31544		
13C3-Pyrene											
205.0883	35:33	35:35	-2	1.004	15391681	2978975	97	242	30711		
Pyrene											
202.0783	35:33	35:35	-2	1.000	171639473	35747469	256	640	139639		
13C6-Benzo(c)fluorene											
222.1134	39:15	39:18	-3	0.708	4981238	919788	11	27	83617		
13C6-Benzo(a)anthracene											
234.1140	46:05	46:07	-2	1.302	12260100	2255206	147	367	15342		
Benzo[a]anthracene											
228.0939	46:05	46:07	-2	1.000	124165534	23766409	390	975	60940		
13C6-Chrysene											
234.1140	46:21	46:24	-2	1.310	13421719	2427915	147	367	16516		
Chrysene											
228.0939	46:21	46:25	-3	1.000	134817195	25201289	390	975	64619		
13C6-Benzo(b)fluoranthene											
258.1140	54:38	54:40	-2	0.985	12410189	3576558	13	32	275120		
Benzo[b]fluoranthene											
252.0939	54:38	54:40	-2	1.000	155779264	44191411	85	212	519899		
13C12-Benzo(j)fluoranthene											
264.1336	54:40	54:42	-2	0.985	11887745	3118662	151	377	20653		
13C6-Benzo(k)fluoranthene											
258.1140	54:45	54:47	-2	0.987	16130058	4233691	13	32	325669		
Benzo[k]fluoranthene											
252.0939	54:46	54:47	-1	1.000	180500584	50269875	85	212	591410		
Benzo(e)pyrene-d12											
264.1692	55:28	55:30	-2		7211924	2302707	141	352	16331		
13C4-Benzo(e)pyrene											
256.1073	55:33	55:35	-2	1.002	14222064	4897285	145	362	33774		
Benzo[e]pyrene											
252.0939	55:33	55:35	-2	1.000	156044174	54451536	85	212	640606		
Benzo[a]pyrene											
252.0939	55:42	55:44	-1	1.000	158831908	53036103	85	212	623954		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C4-Benzo(a)pyrene											
256.1073	55:41	55:44	-2	1.004	14479273	4184053	145	362	28856		
Perylene-d12											
264.1692	55:52	55:54	-2	1.007	9436646	2869477	141	352	20351		
Perylene											
252.0939	55:57	55:58	-1	1.002	179211720	59244250	85	212	696991		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:01	58:02	-1	1.046	8585756	2880154	75	187	38402		
Indeno[1,2,3-cd]pyrene											
276.0939	58:01	58:03	-2	1.000	113067905	36563722	84	210	435282		M
13C6-Dibenz(a,h)anthracene											
284.1296	58:05	58:07	-2	1.047	9436274	2676473	52	130	51471		M
Dibenz(a,h)anthracene											
278.1096	58:05	58:07	-2	1.000	110582572	31259898	65	162	480922		M
13C12-Benzo(ghi)perylene											
288.1342	58:29	58:30	-1	1.054	11042946	3344331	47	117	71156		M
Benzo[g,h,i]perylene											
276.0939	58:29	58:31	-2	1.000	147488032	46166538	84	210	549602		M

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61HRPAHCS7\_00002

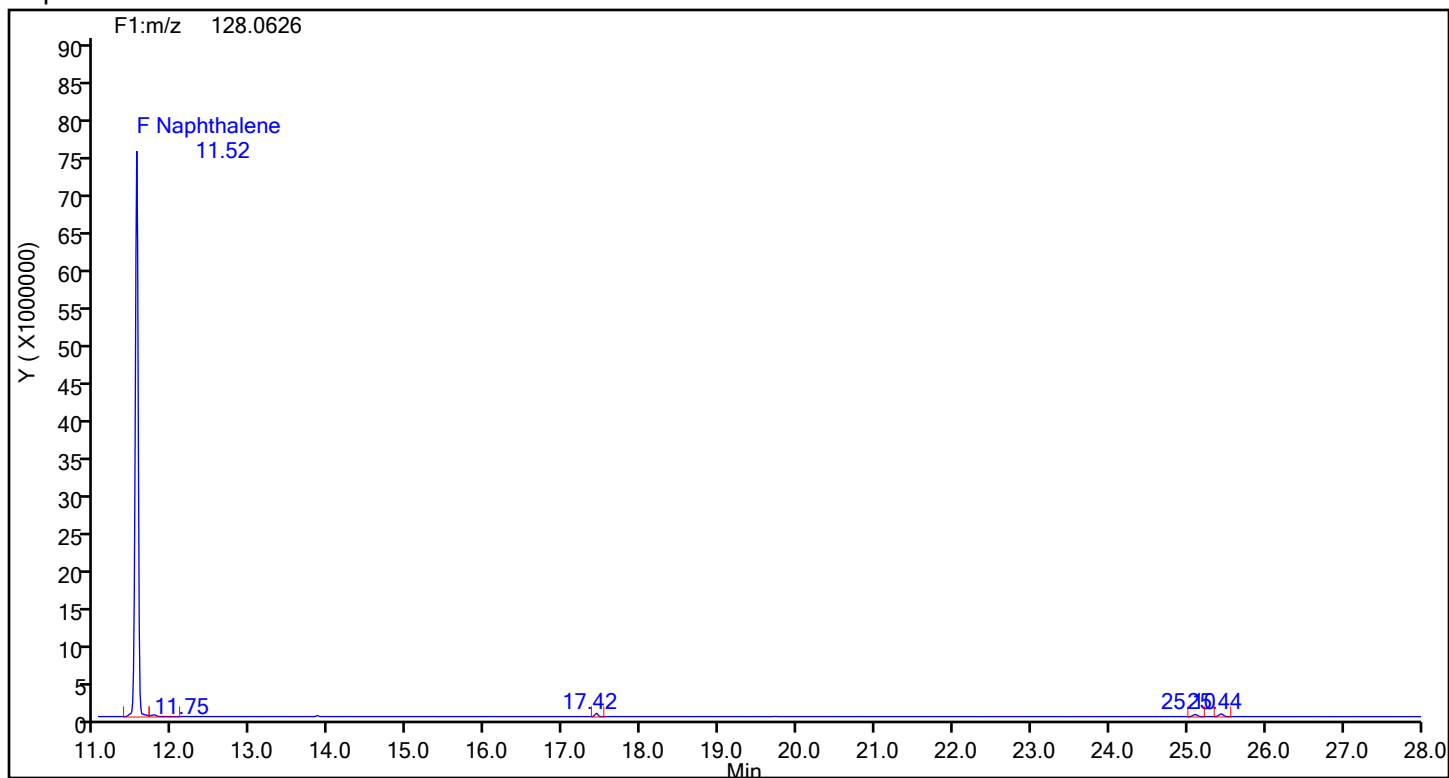
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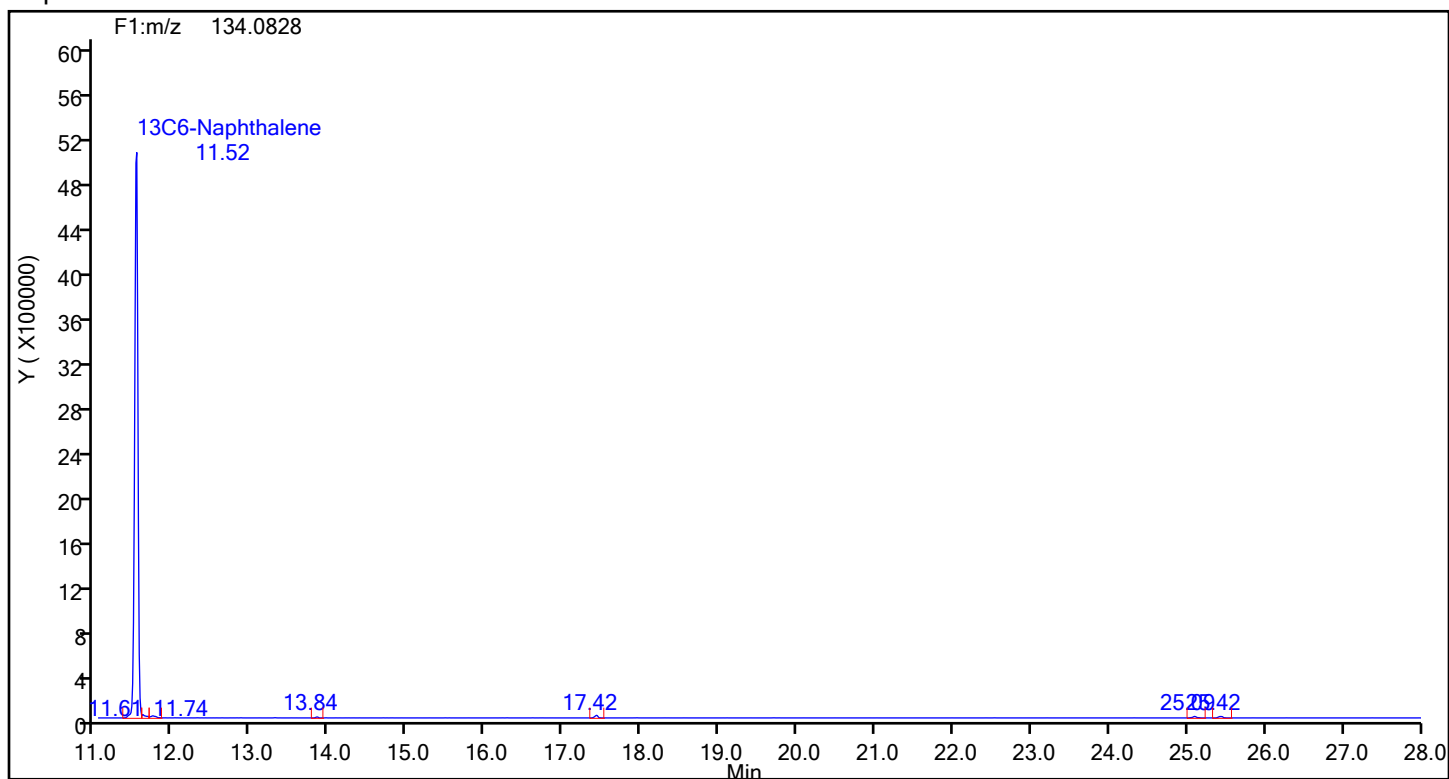
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 9  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



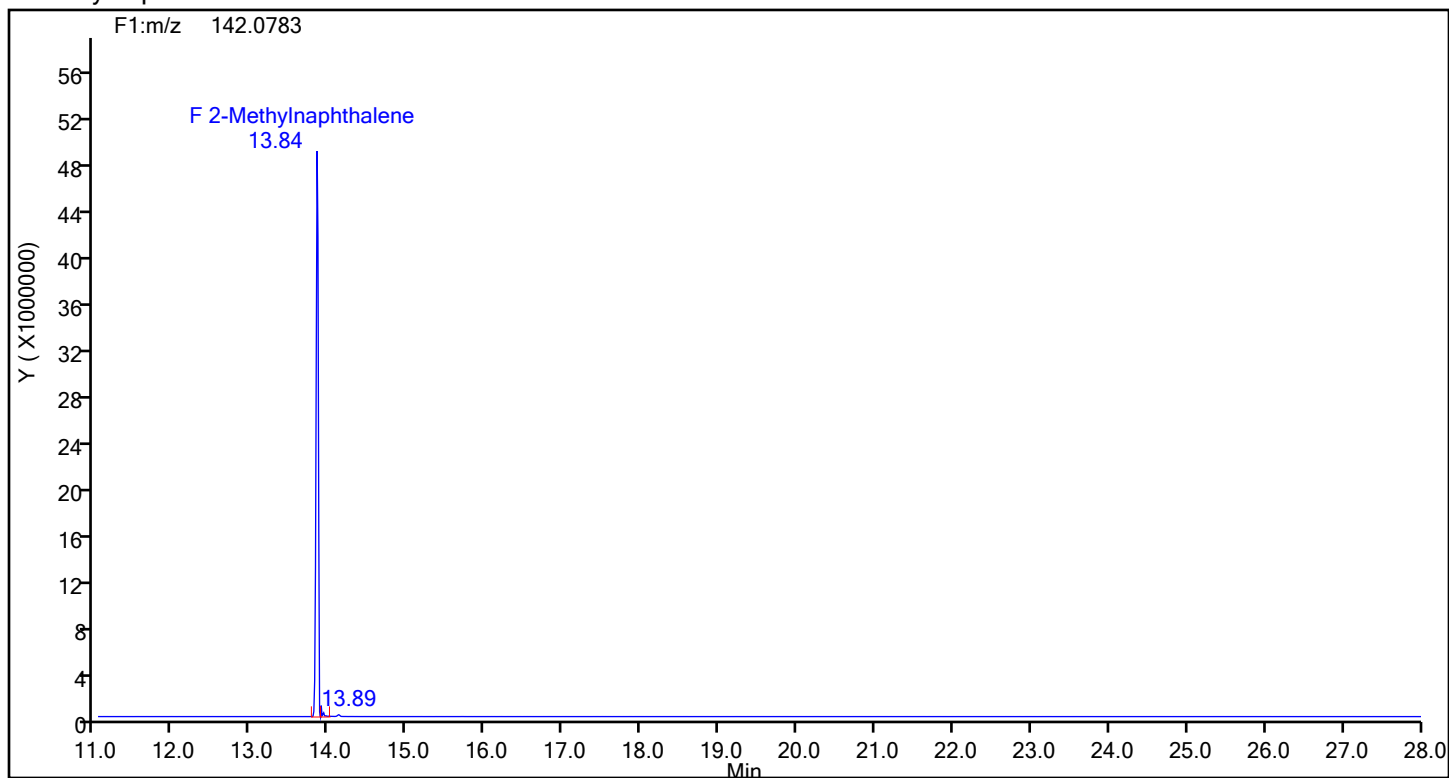
## Naphthalene Standards



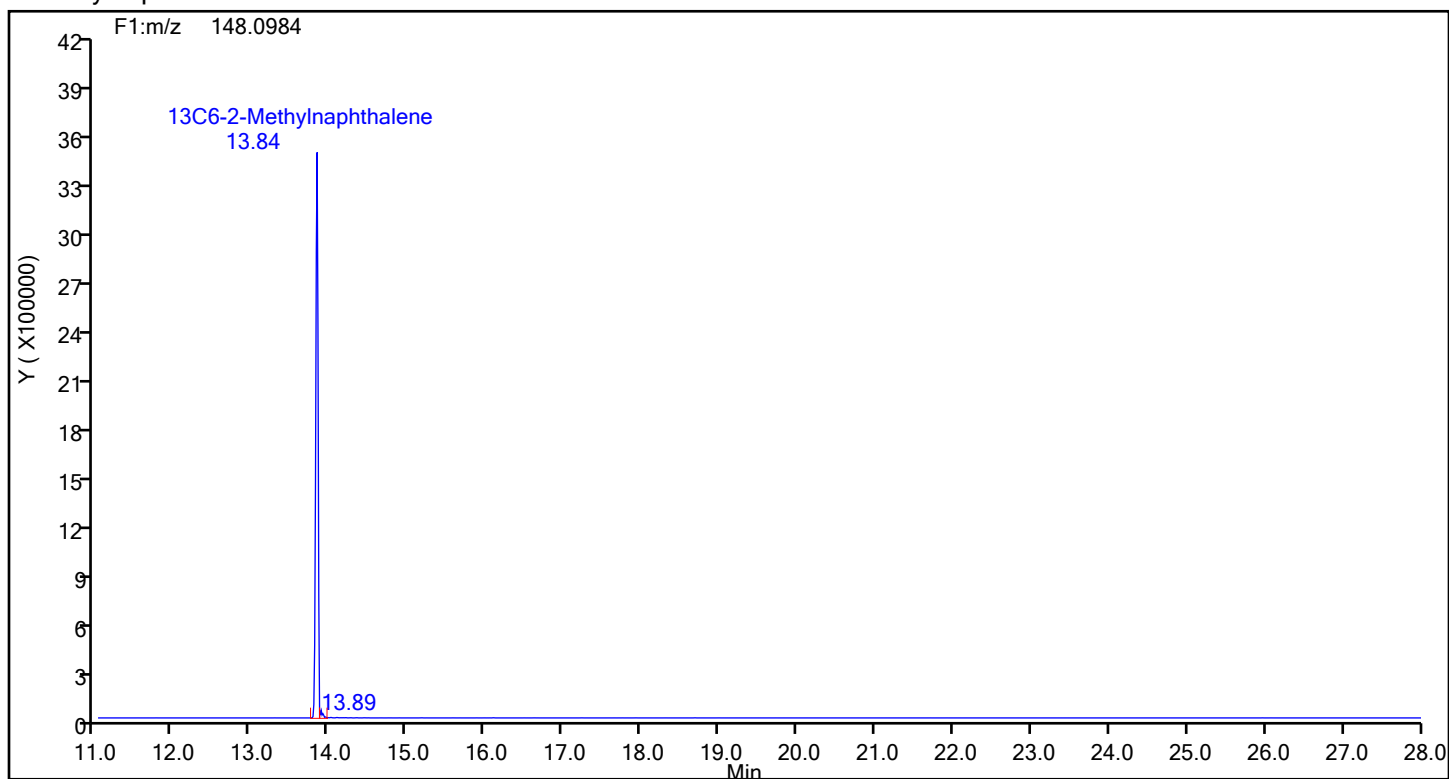
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Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



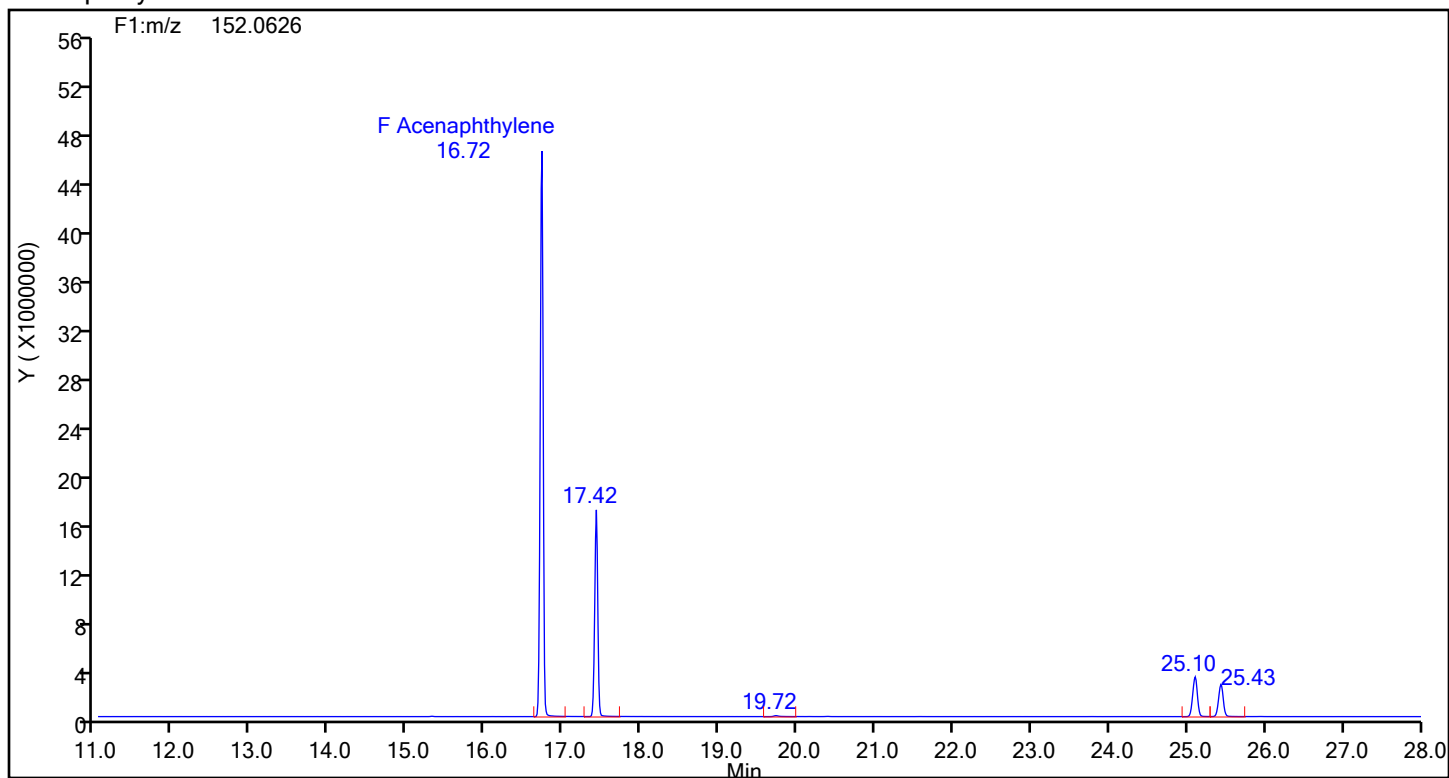
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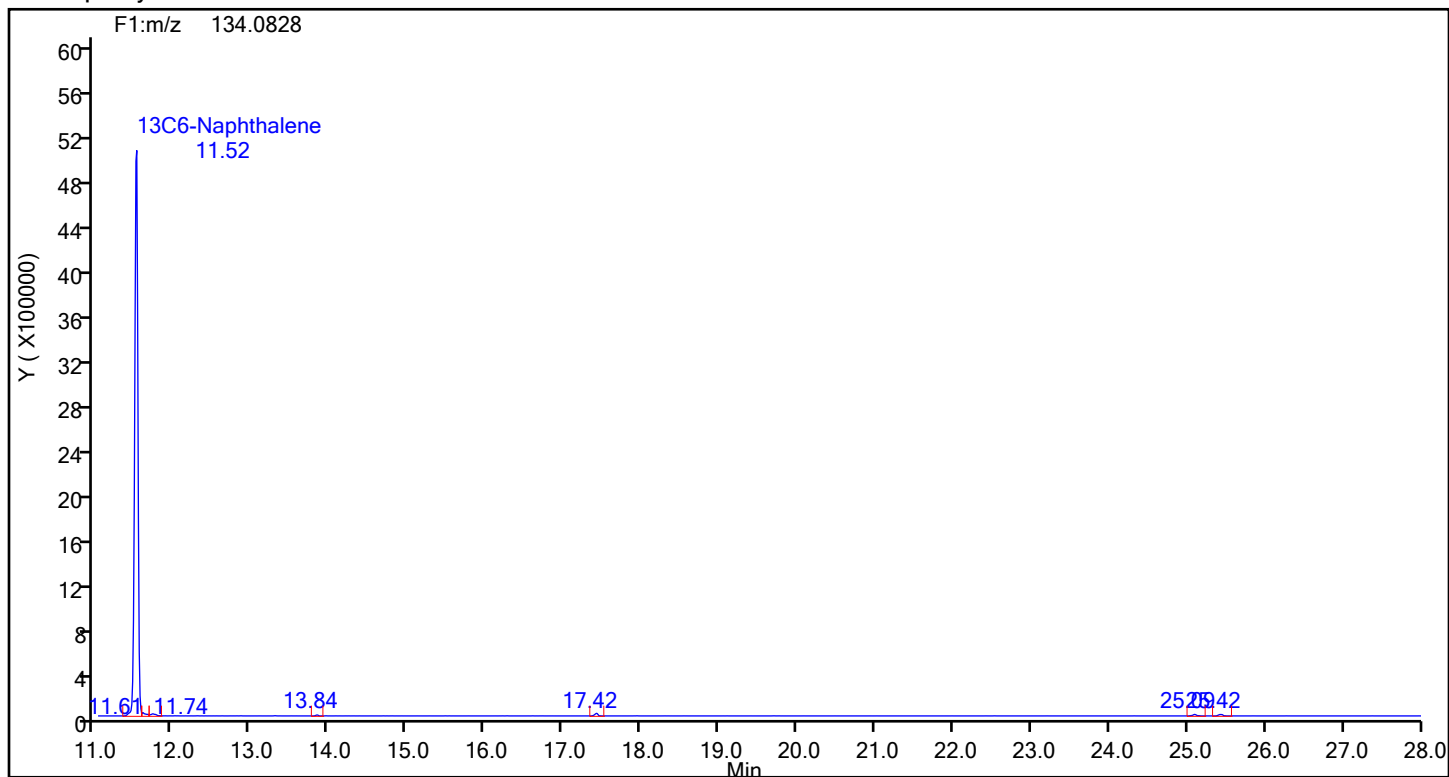
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Client ID:  
Worklist#: 87843 Sample Line#: 9  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene

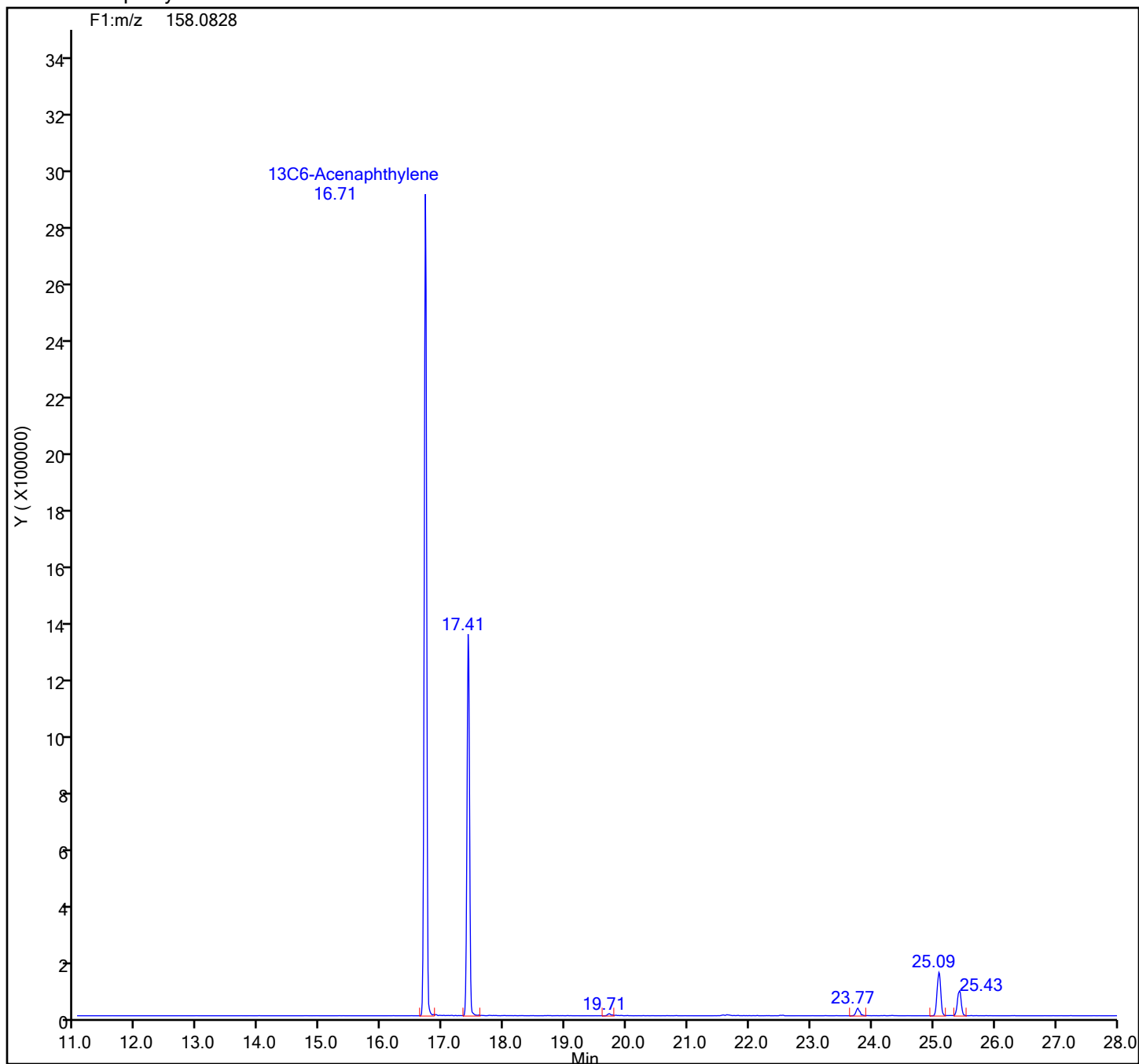


## Acenaphthylene Standards



## Eurofins Knoxville

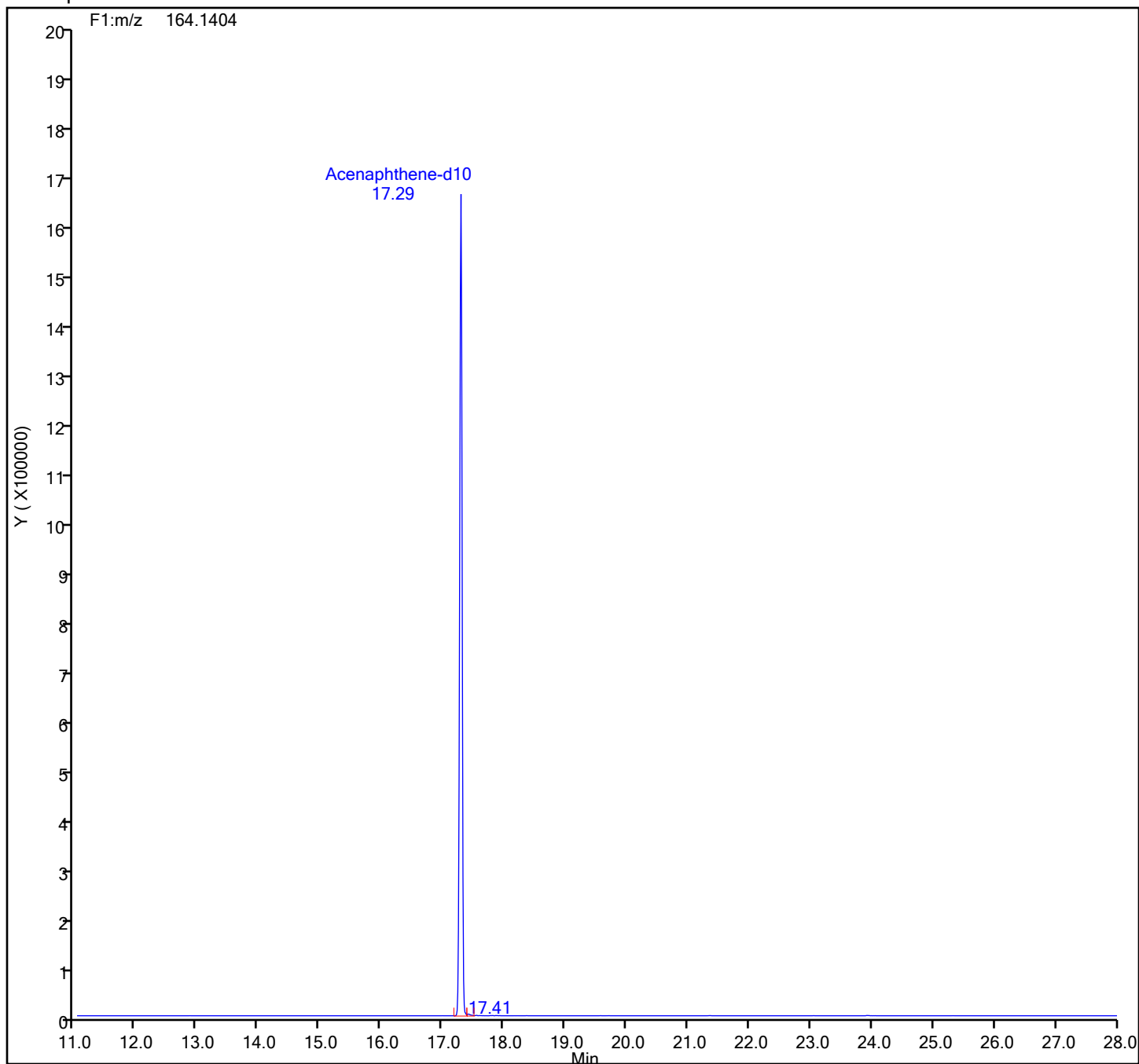
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
13C6-Acenaphthylene Standards



## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 9  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

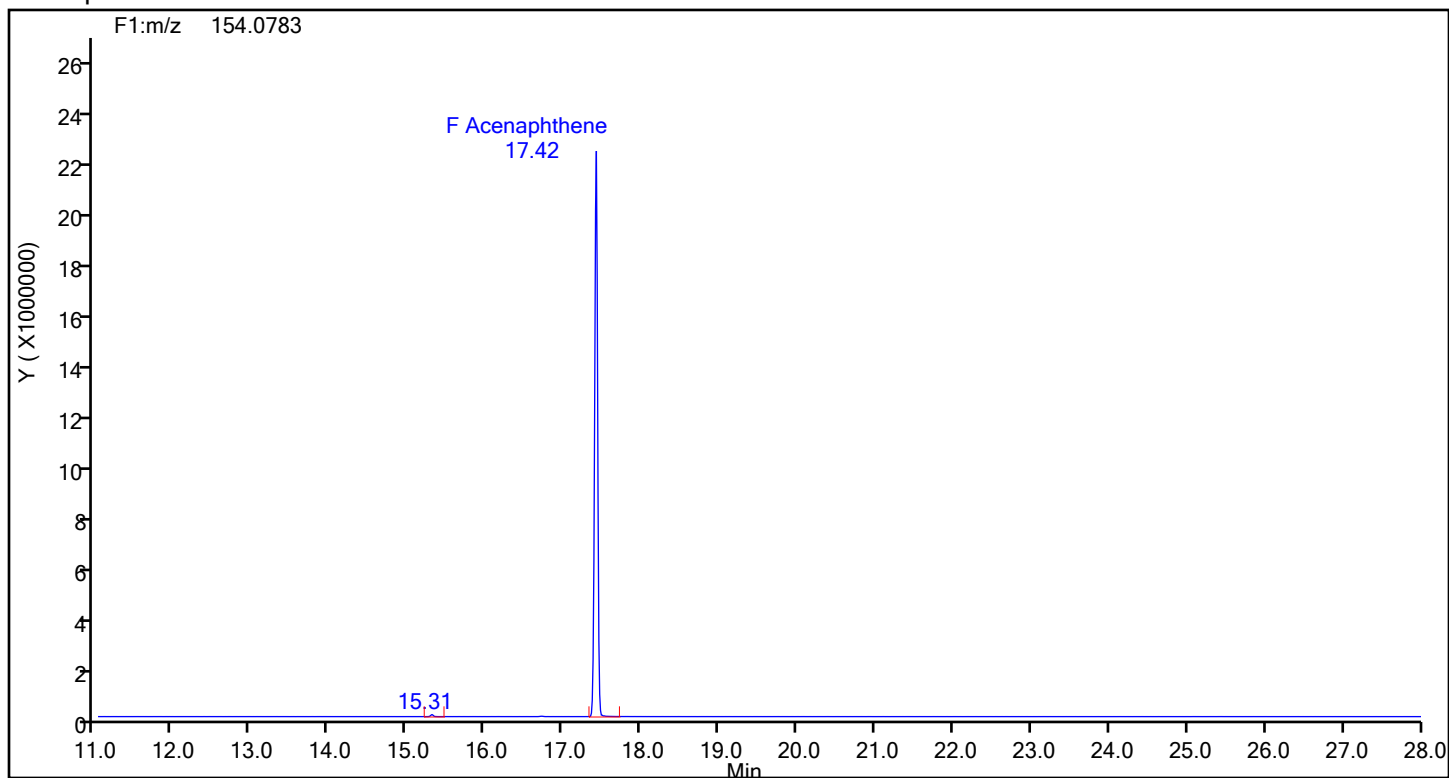
## Acenaphthene-d10 Standards



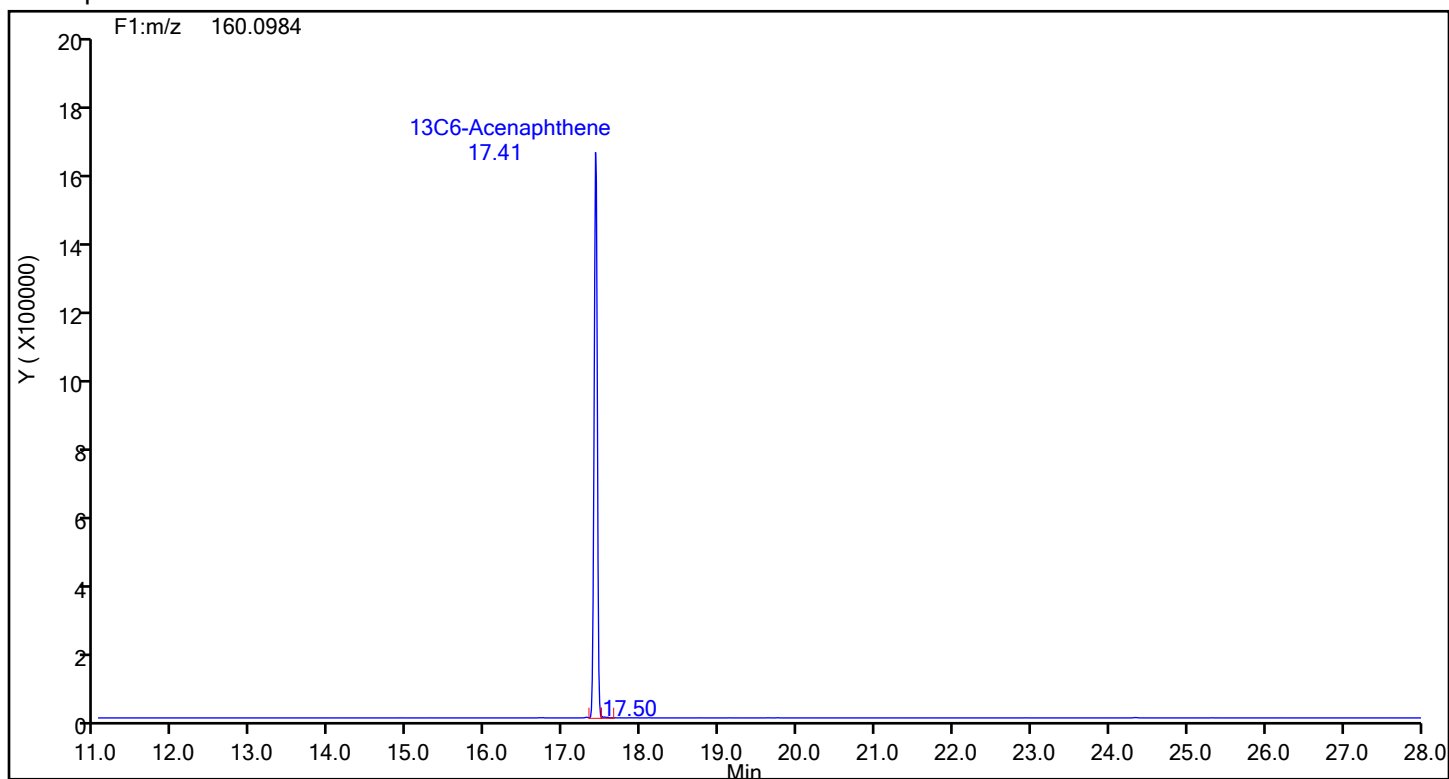
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## Acenaphthene



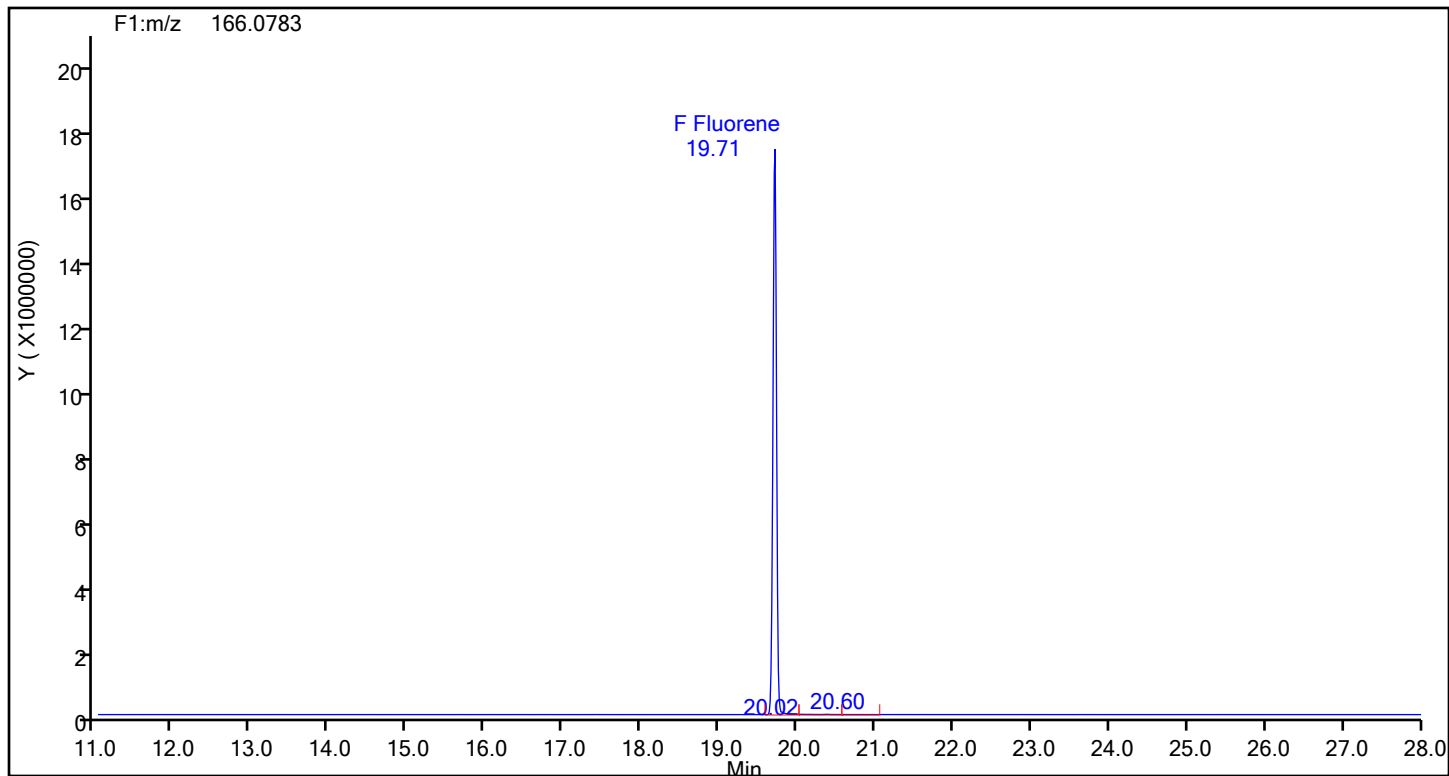
## Acenaphthene Standards



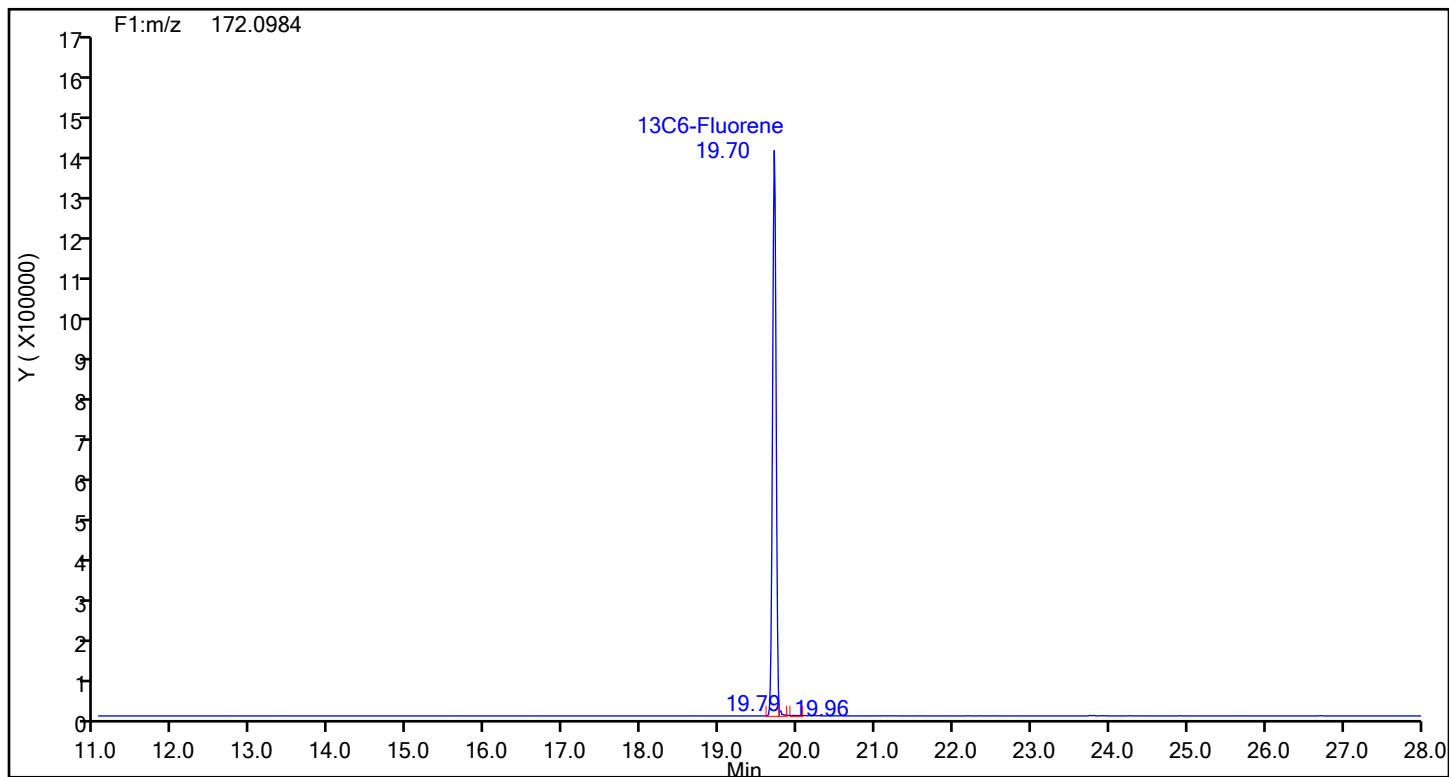
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Client ID:  
Worklist#: 87843 Sample Line#: 9  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



## Fluorene Standards

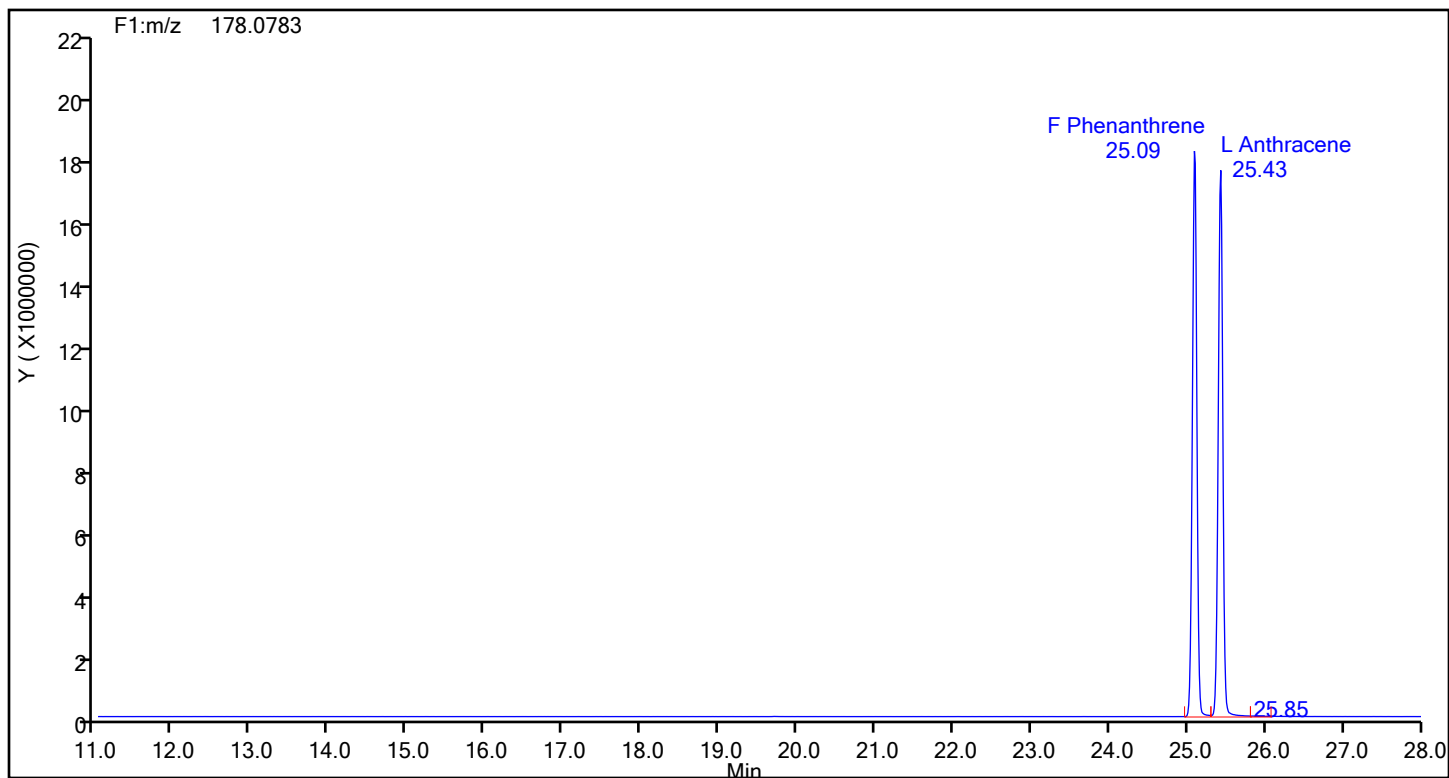




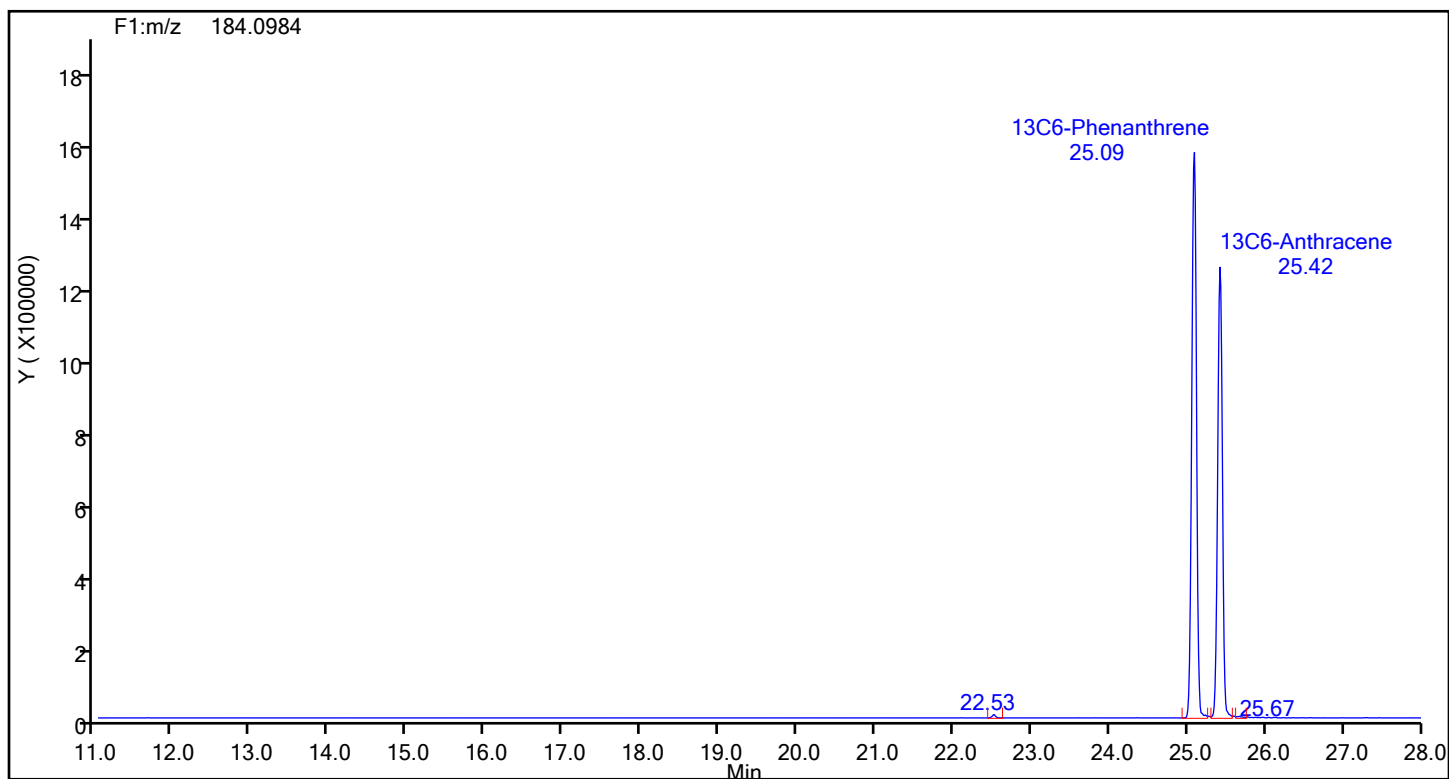
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Phenanthrene

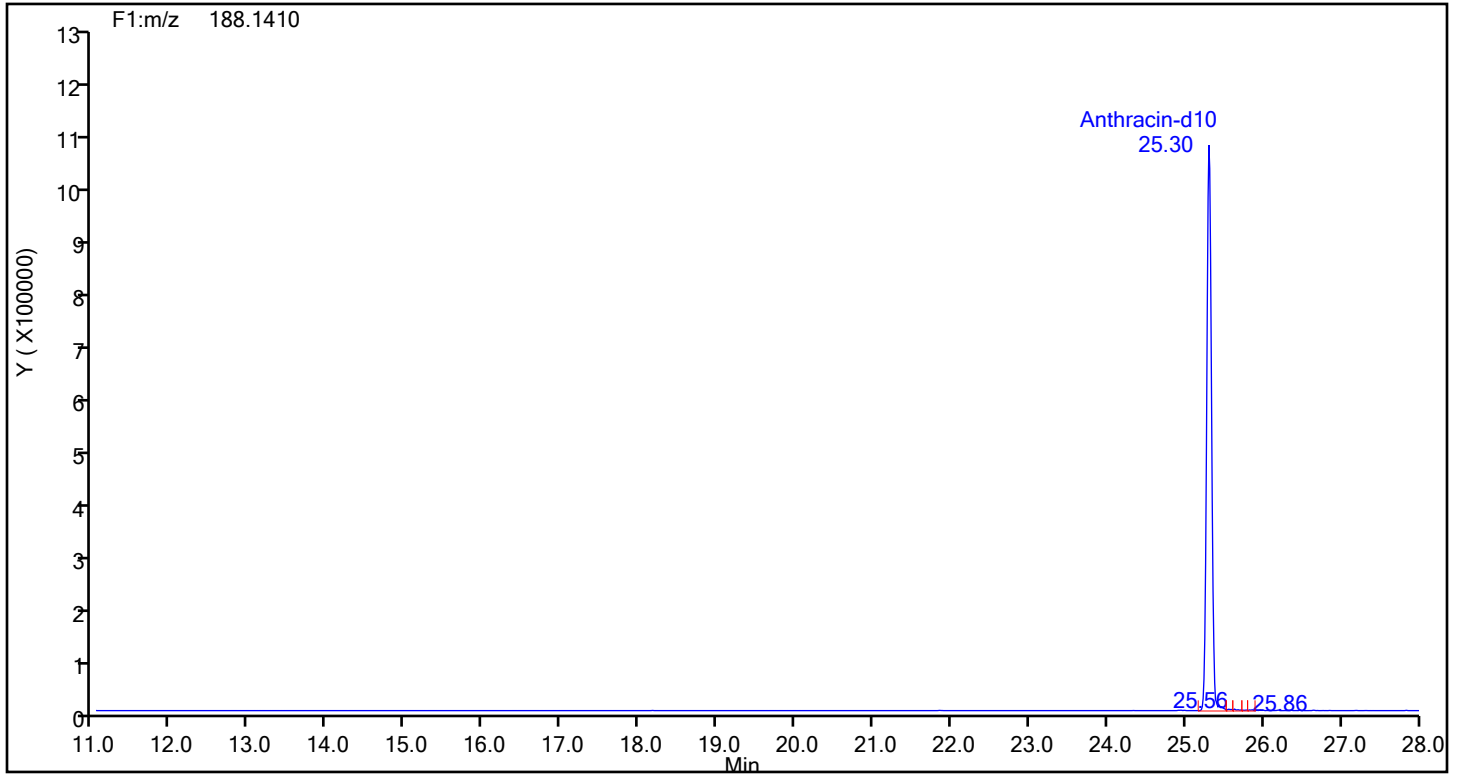


## Phenanthrene Standards

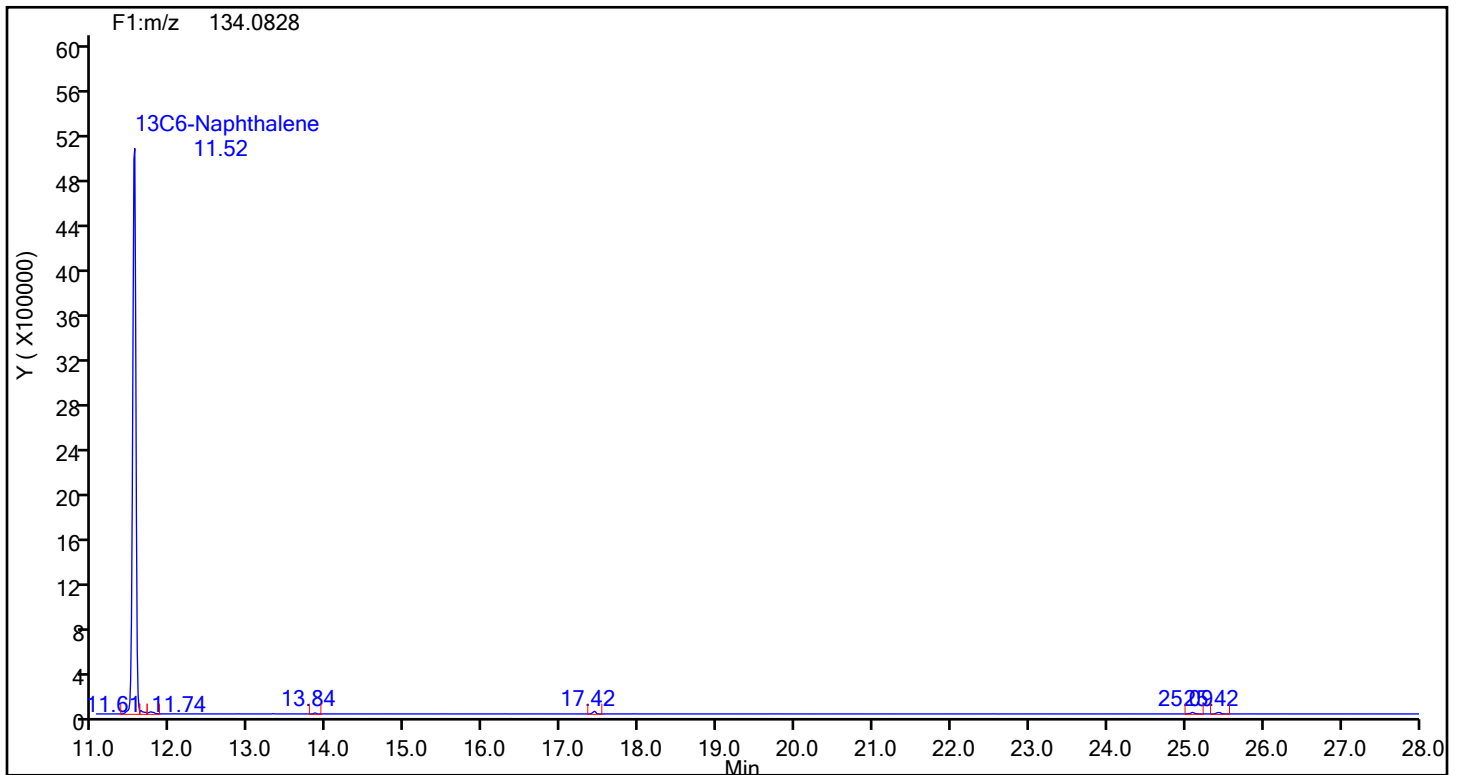


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Anthracin-d10

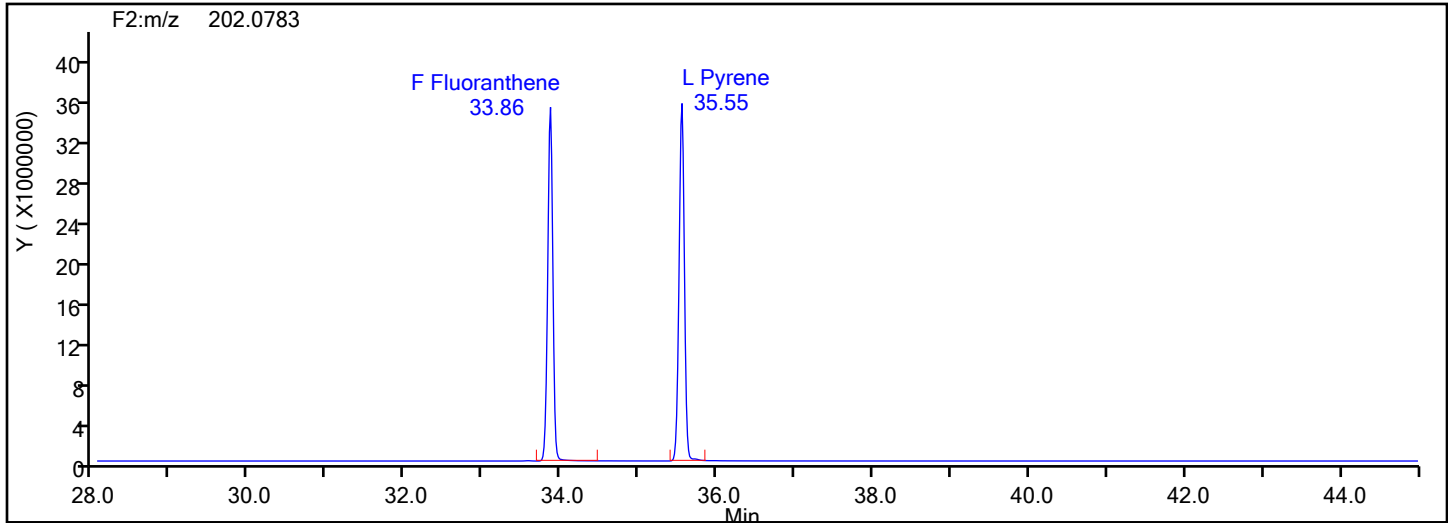


## Anthracin-d10 Standards

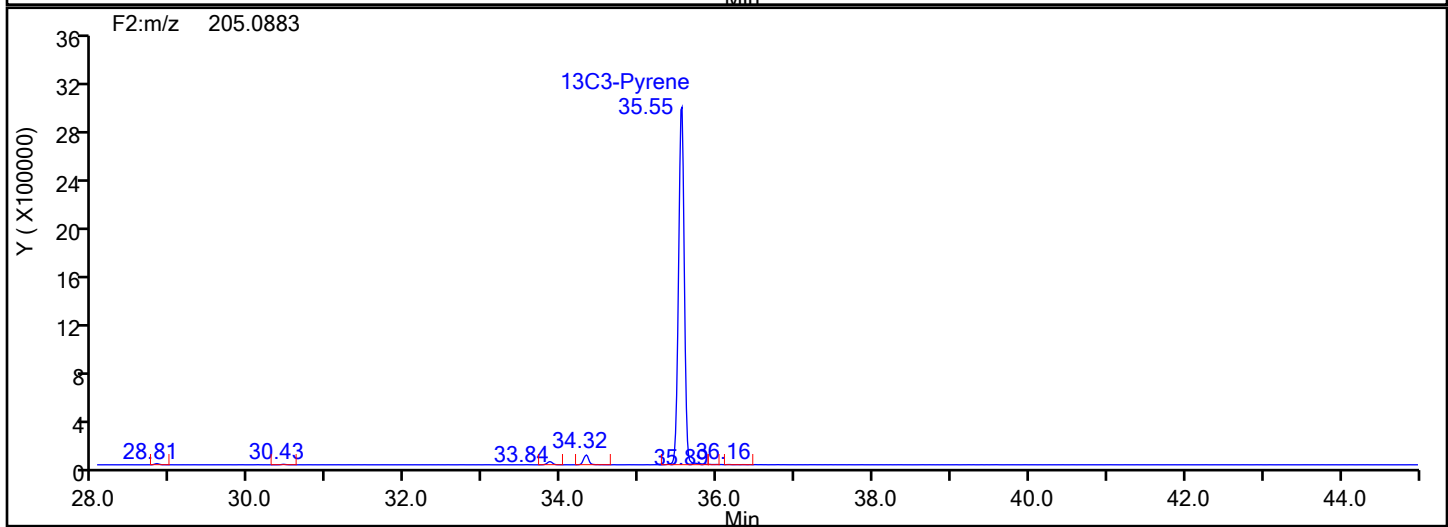
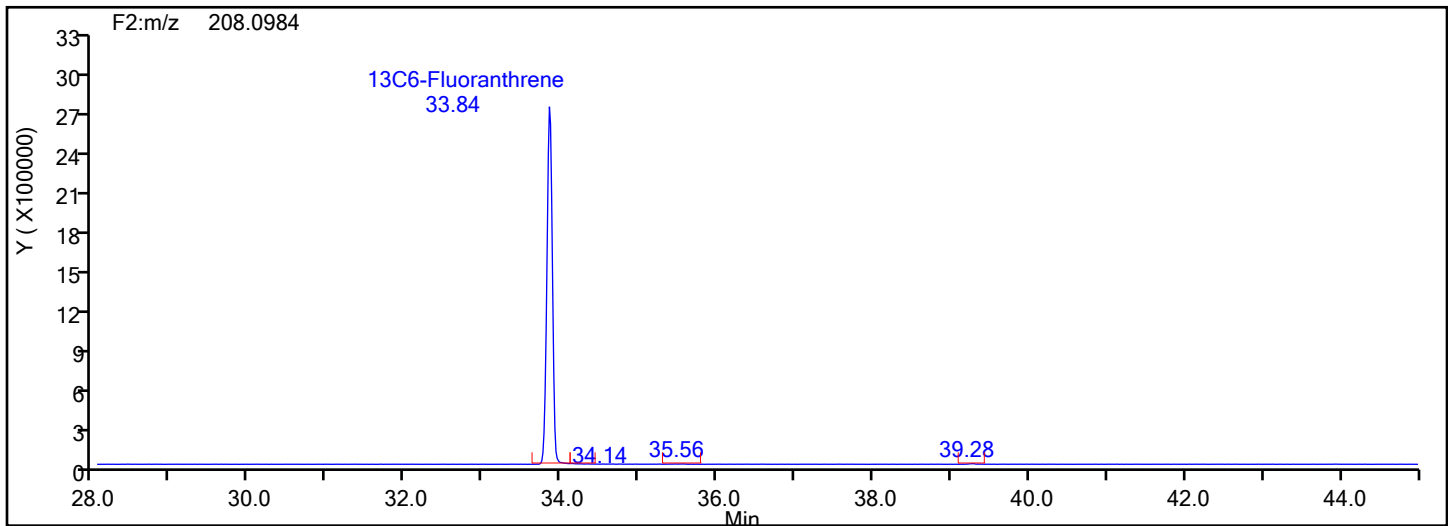


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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



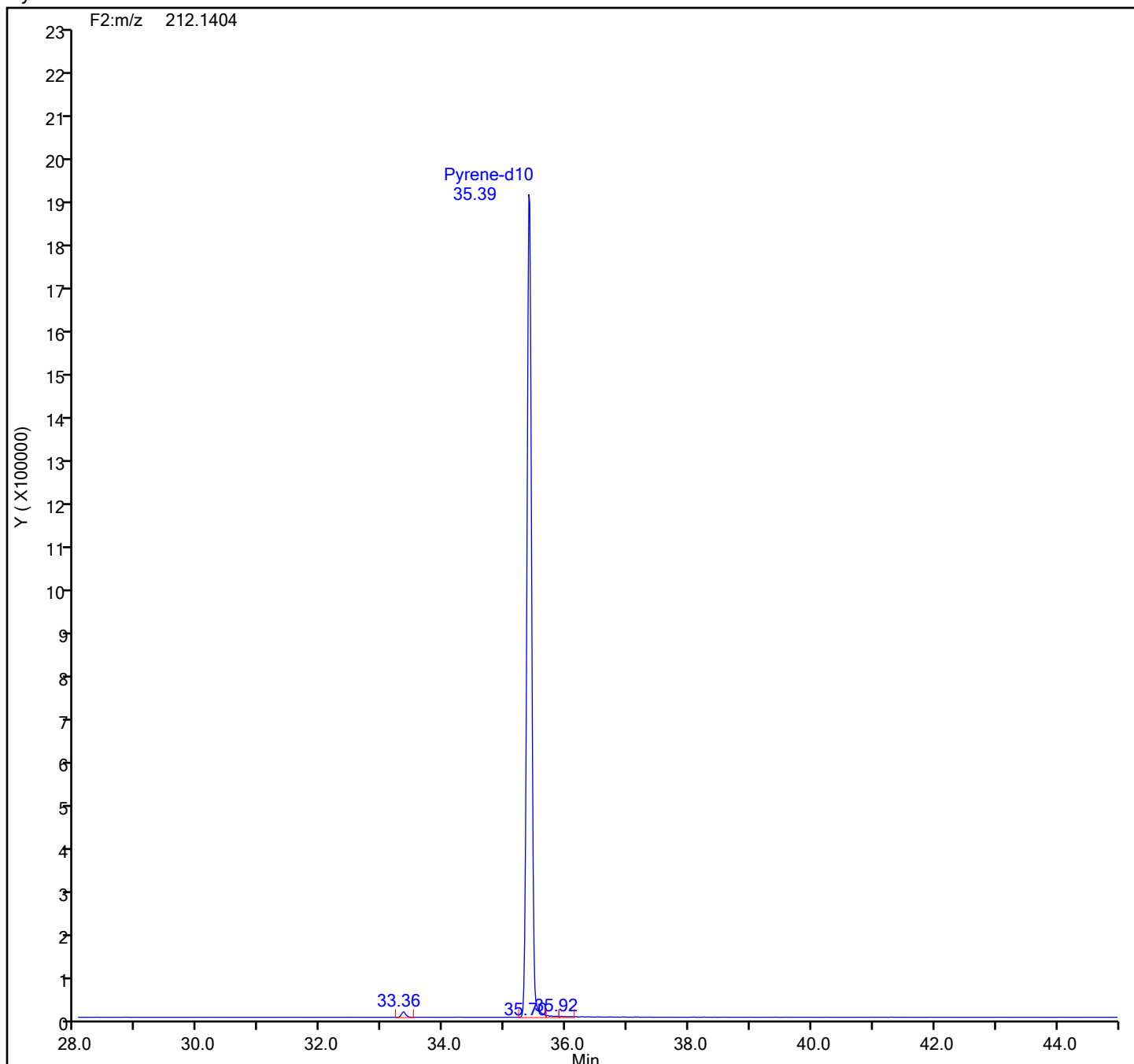
## Fluoranthene Standards



## Eurofins Knoxville

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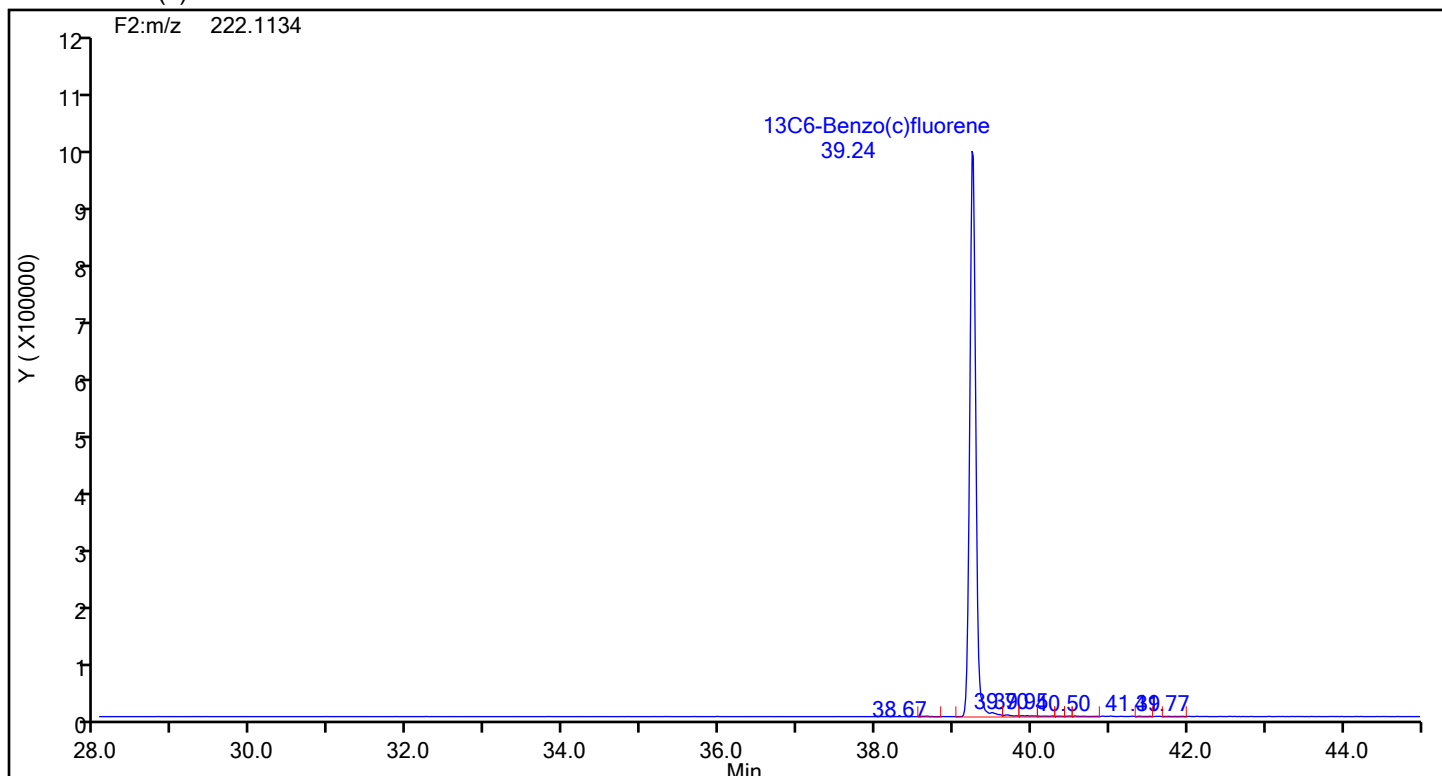
## Pyrene-d10 Standards



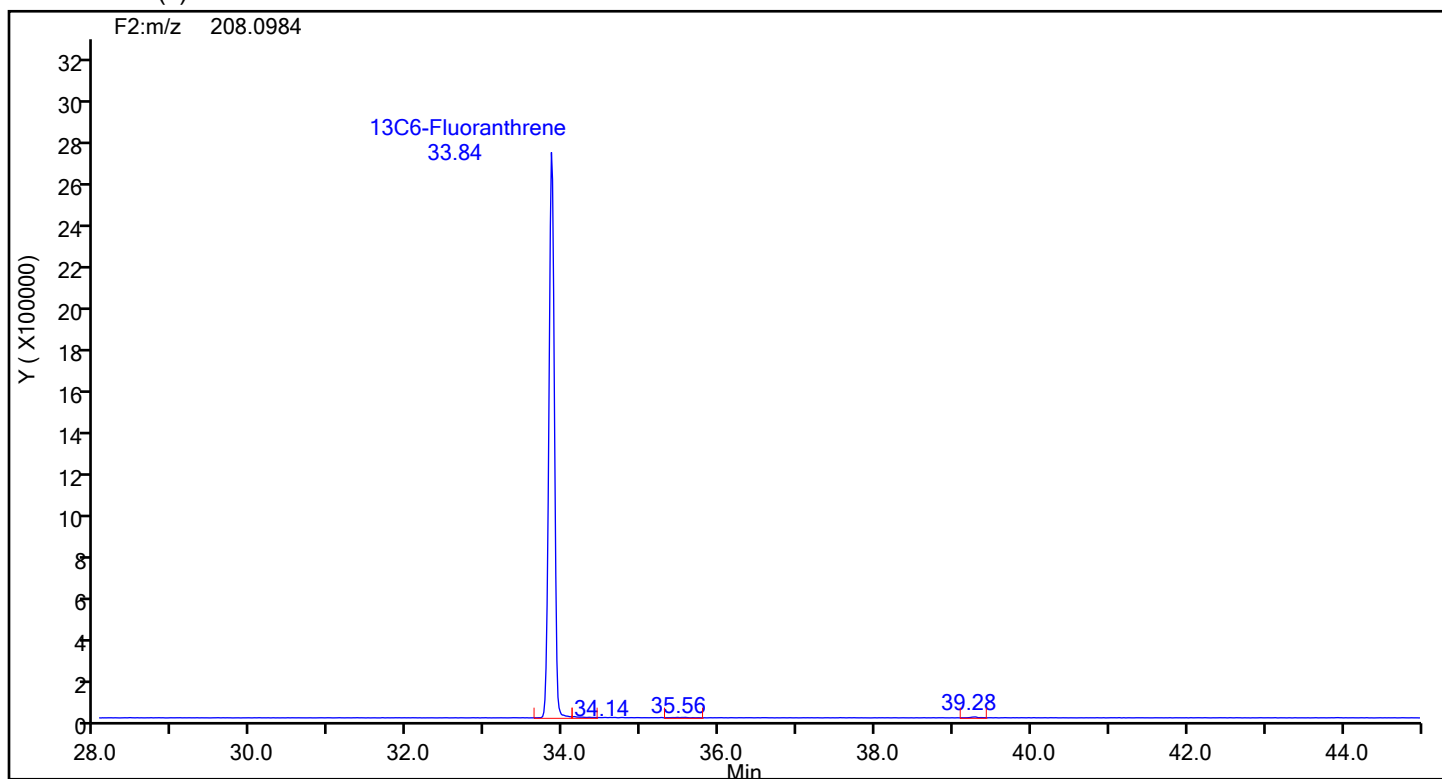
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 9  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



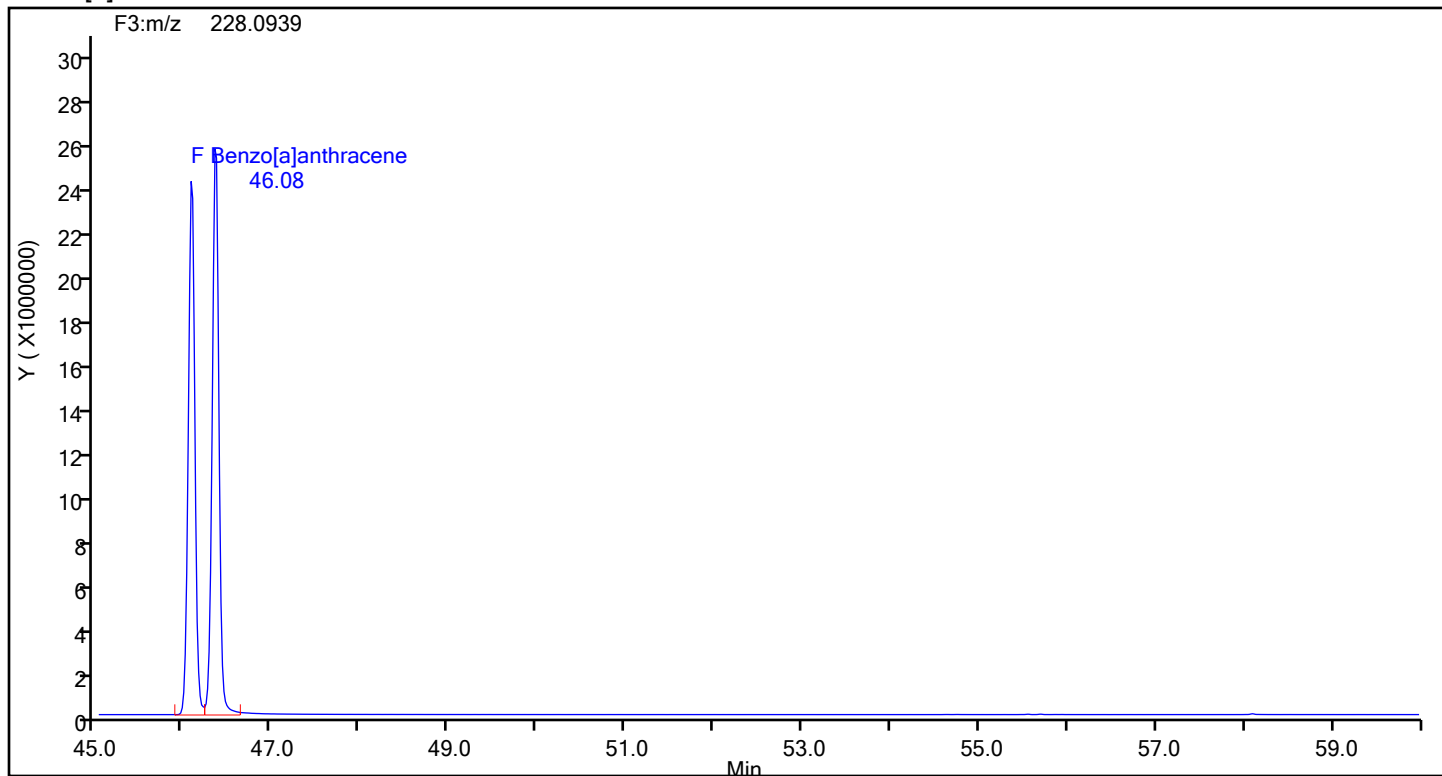
## 13C6-Benzo(c)fluorene Standards



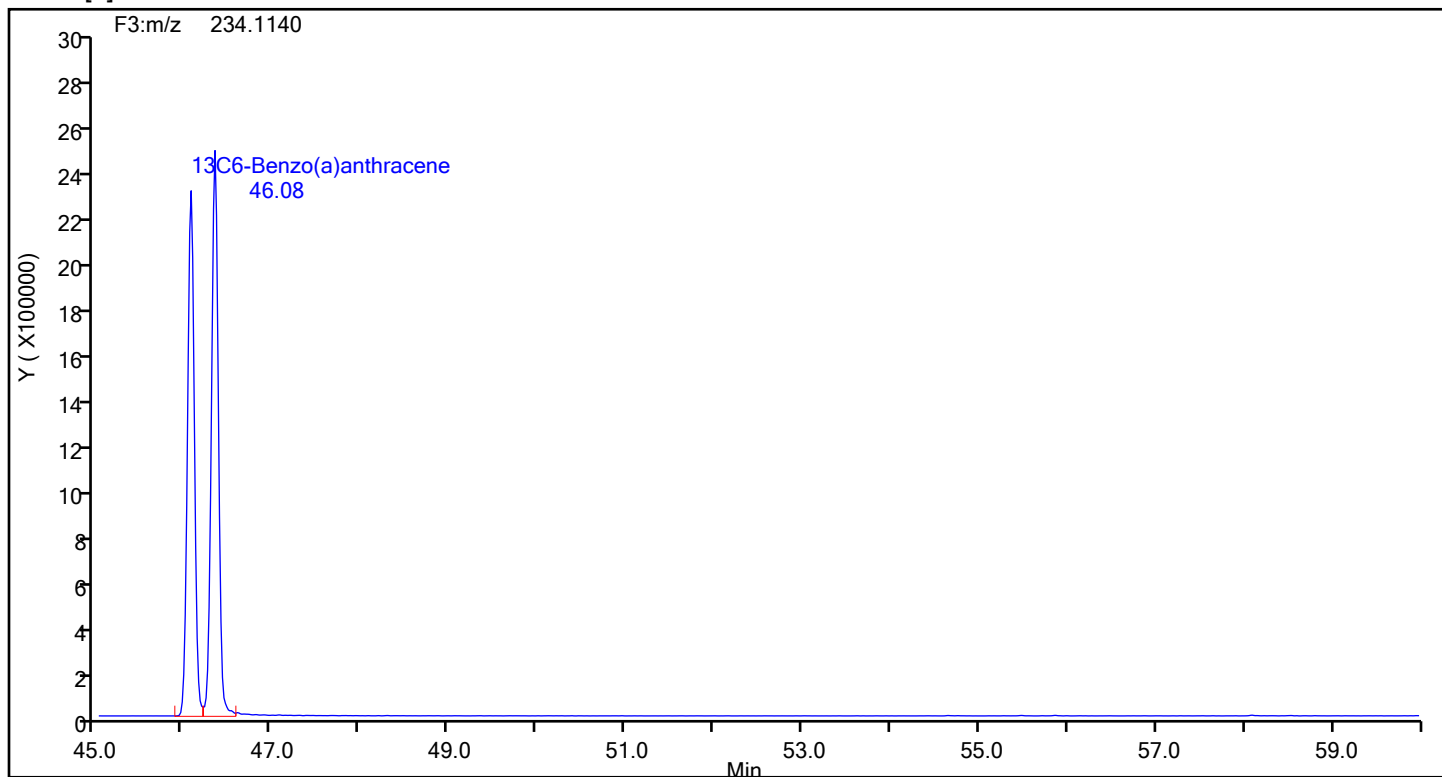
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 9  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



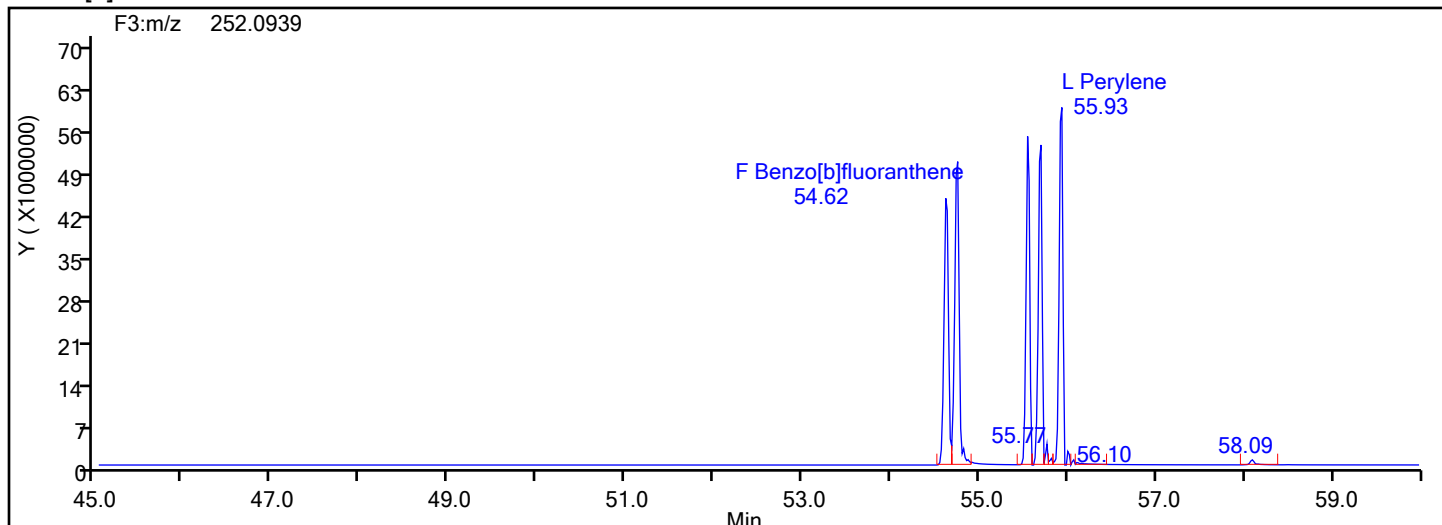
## Benzo[a]anthracene Standards



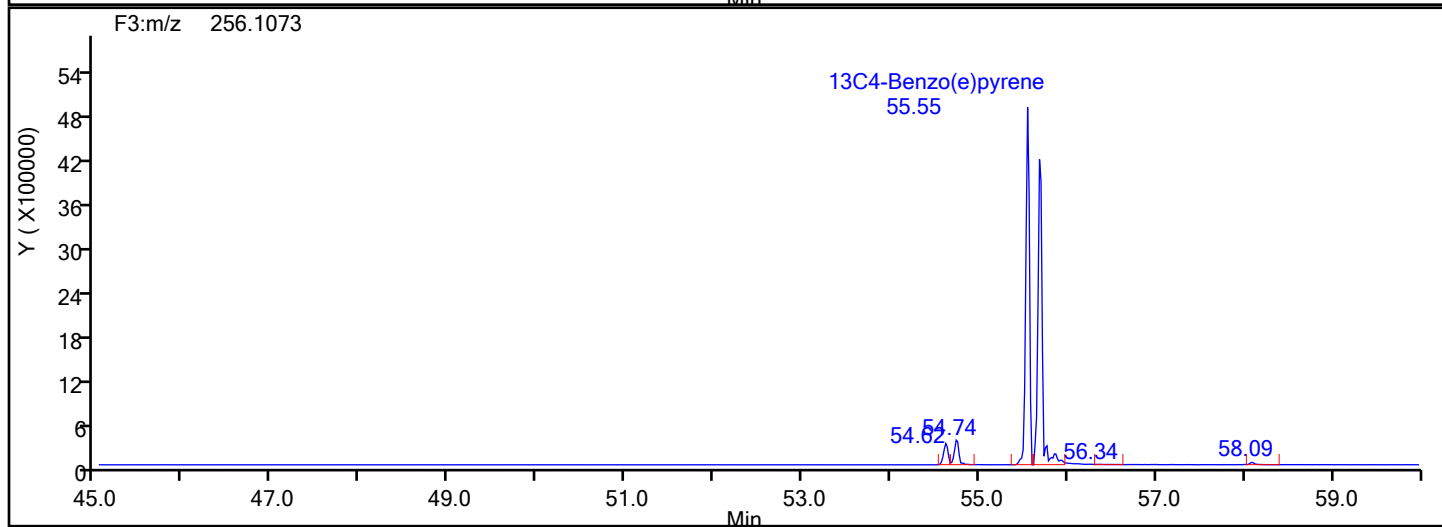
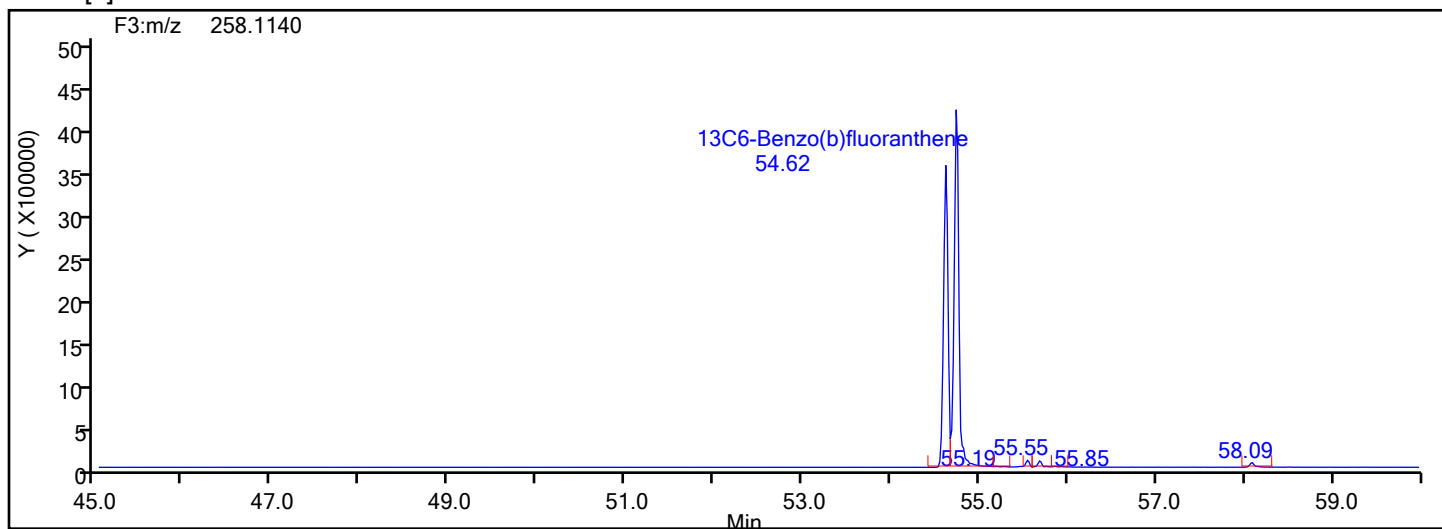
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 87843 Sample Line#: 9  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



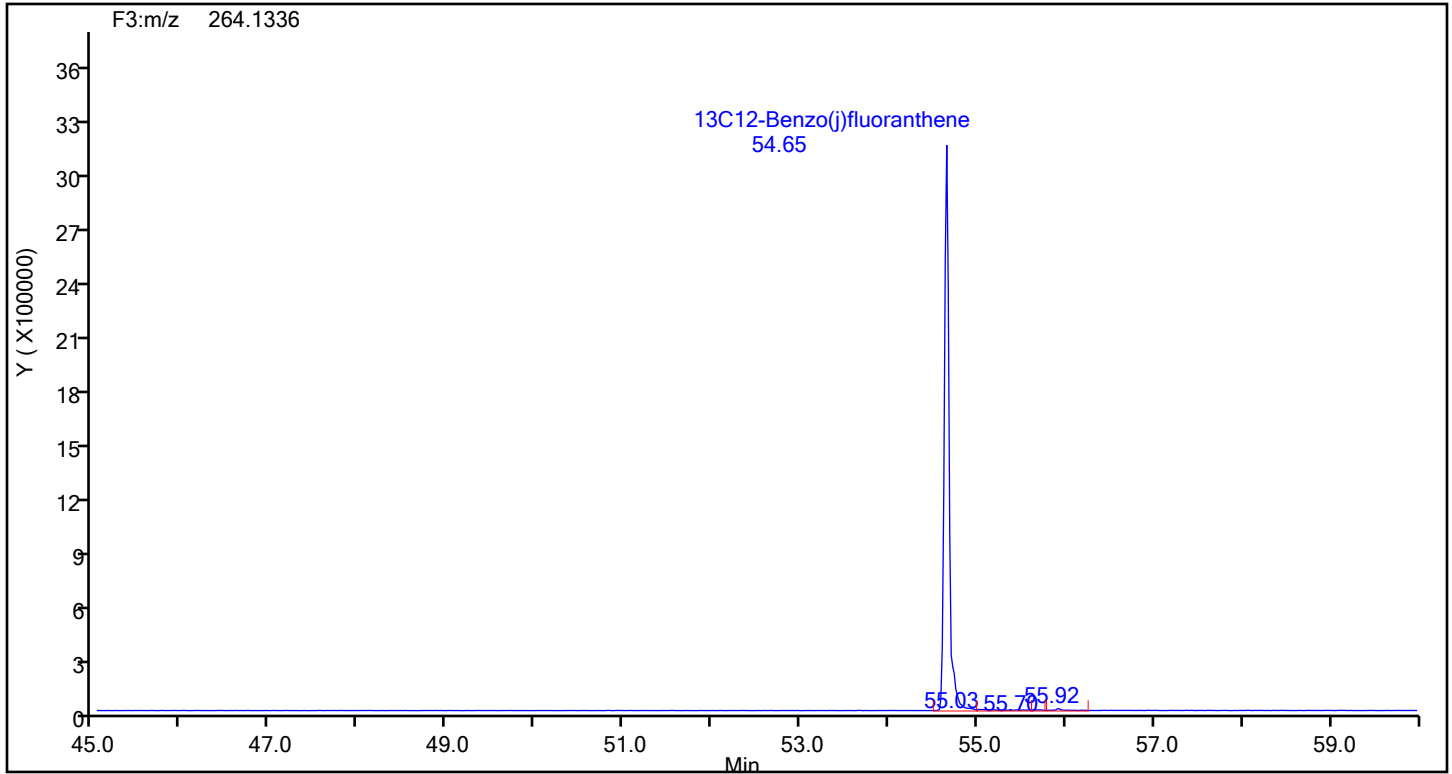
## Benzo[b]fluoranthene Standards



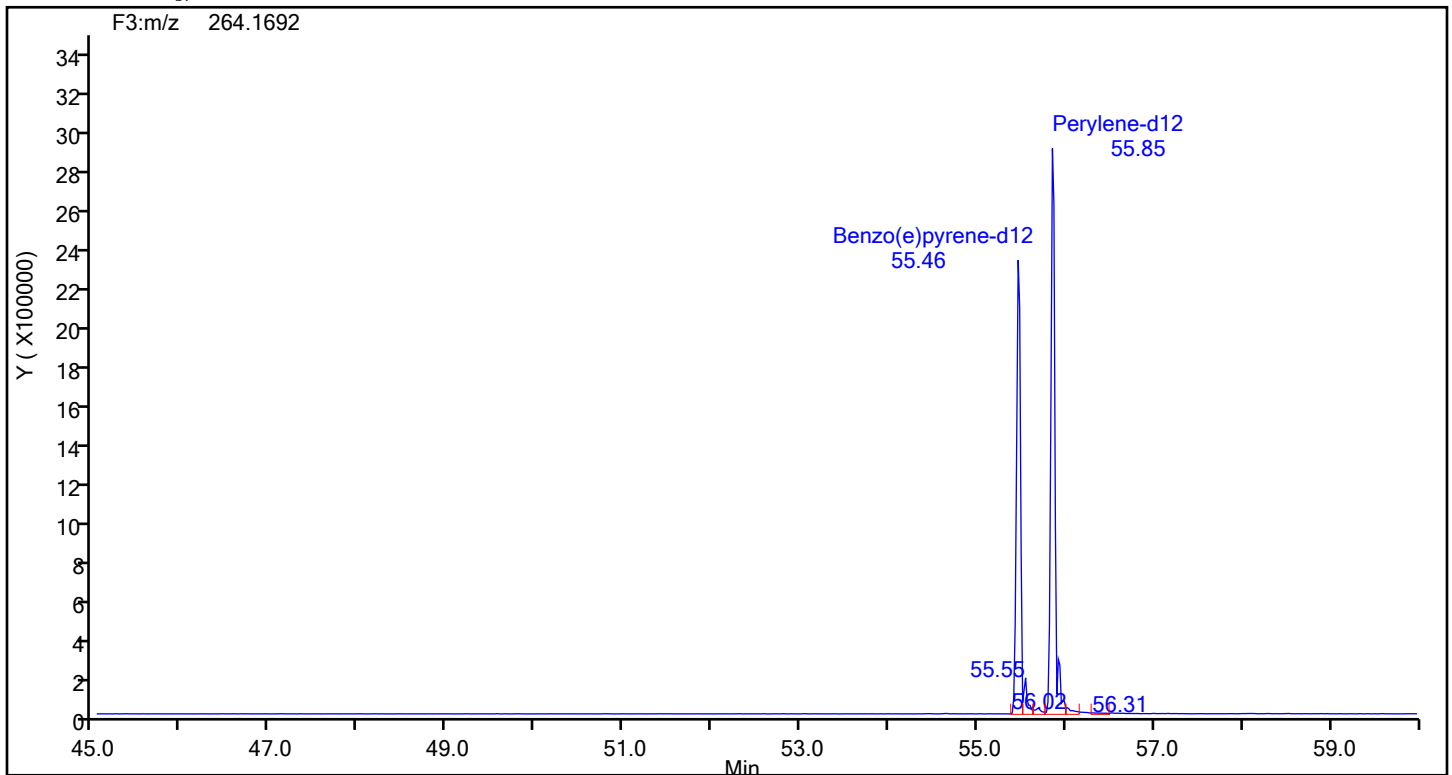
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 9  
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## 13C12-Benzo(j)fluoranthene



## 13C12-Benzo(j)fluoranthene Standards

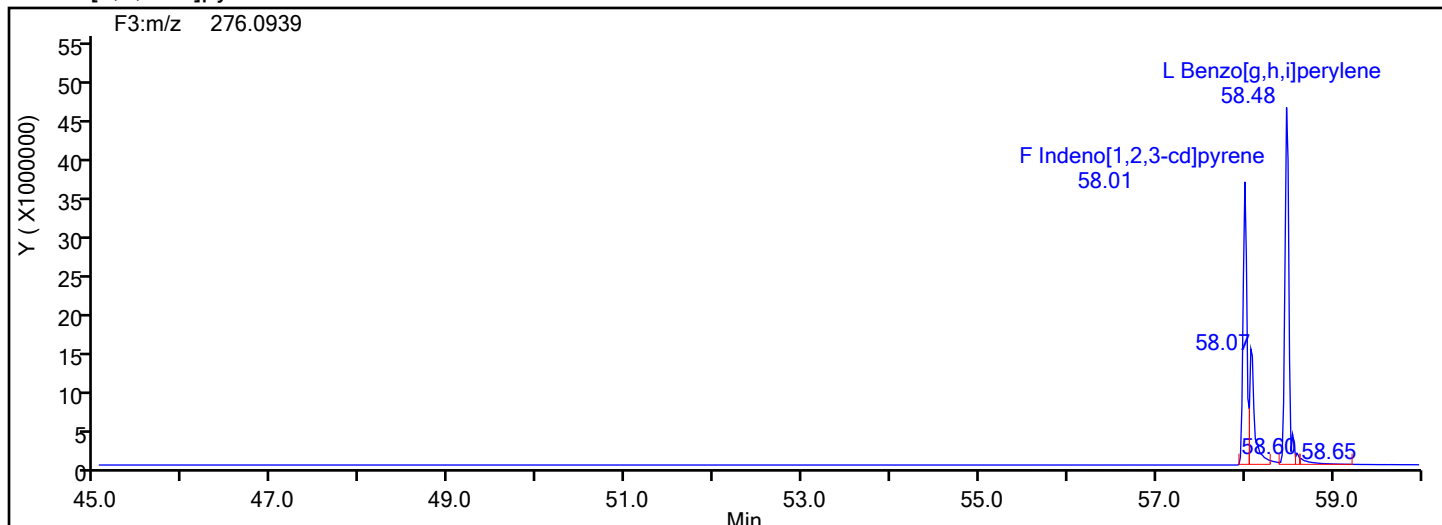




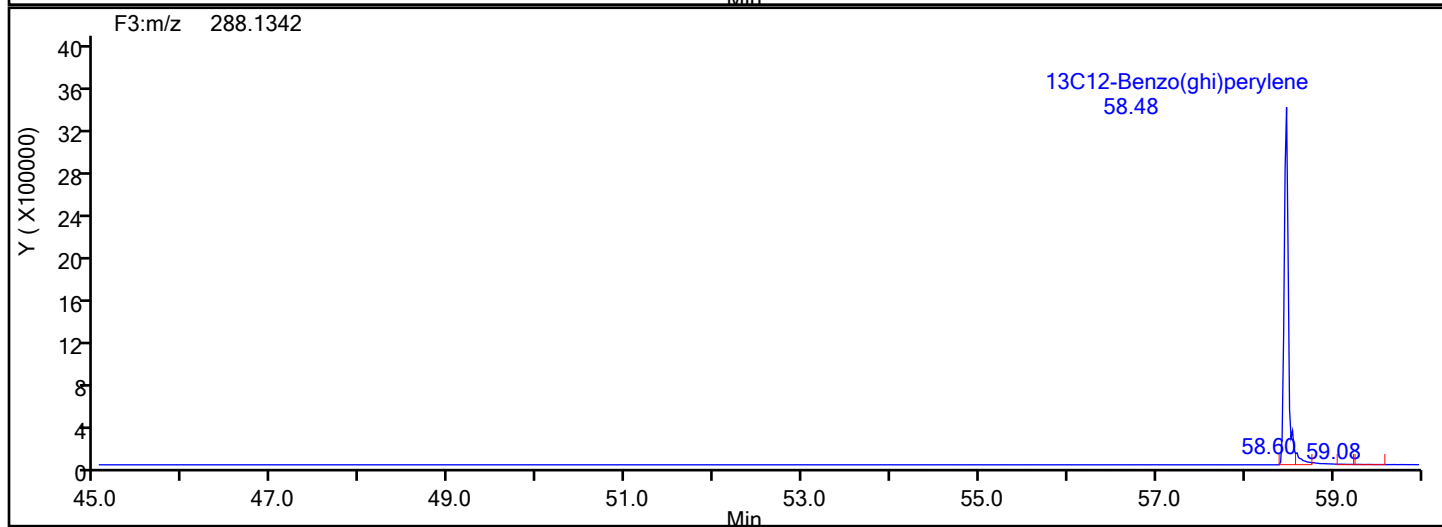
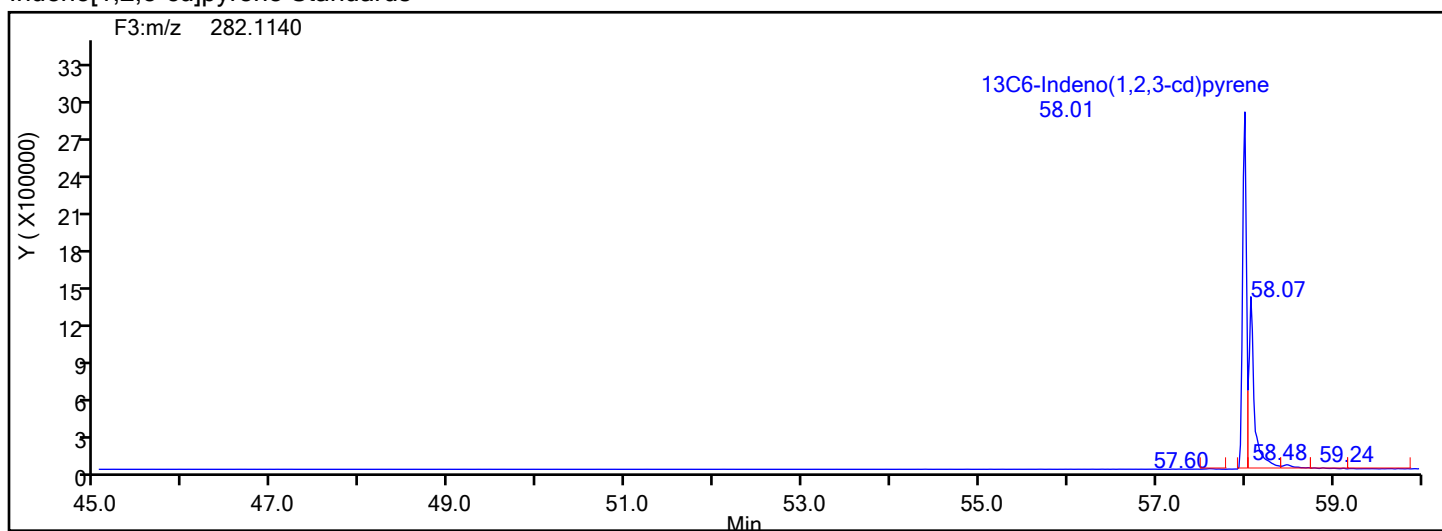
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Client ID:  
Worklist#: 87843 Sample Line#: 9  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



## Indeno[1,2,3-cd]pyrene Standards



## Eurofins Knoxville

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Injection Date: 20-Jun-2024 01:09:00

Instrument ID: D3PAH

Lims ID: IC L9

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Column: Restek-5Sil MS 25um ( 0.25 mm)

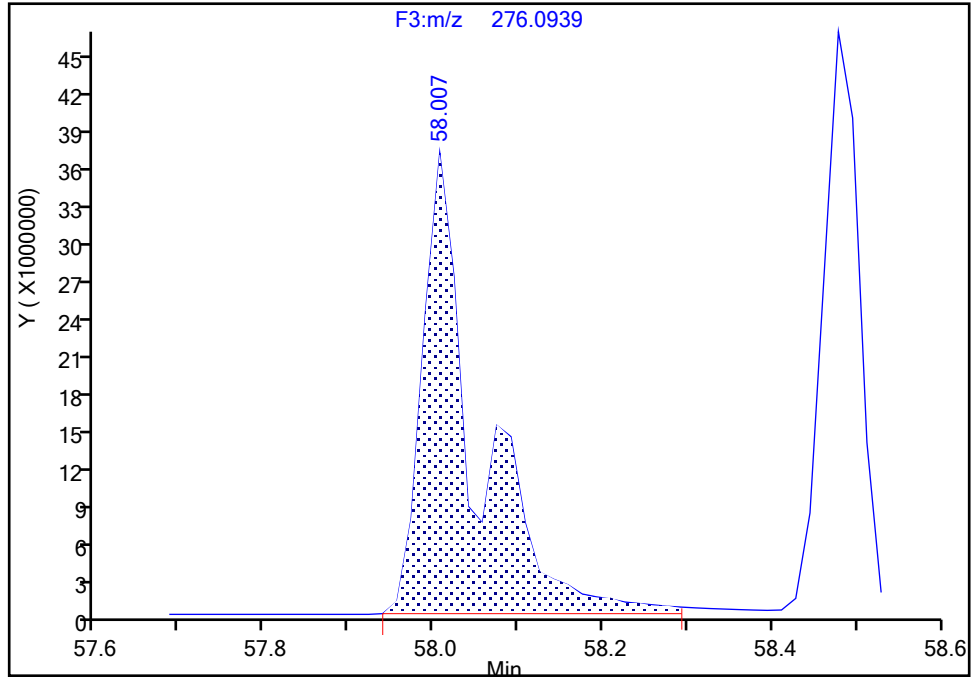
Detector F3(44.04 :59.98 )

Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

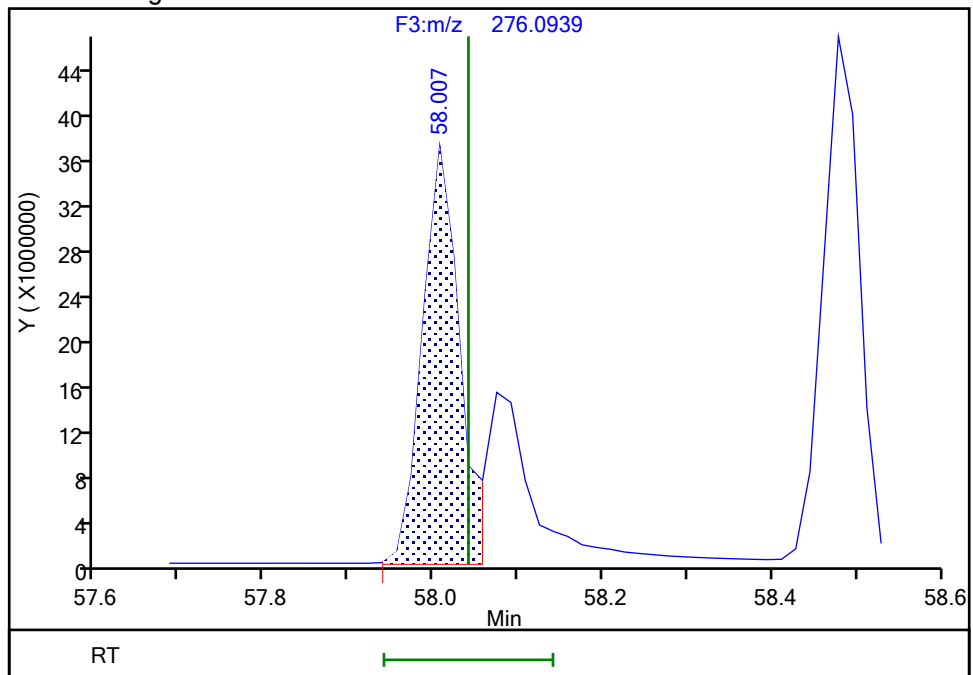
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Amount: 1593.7458  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.01  
Area: 113067905  
Amount: 1170.6590  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:19 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

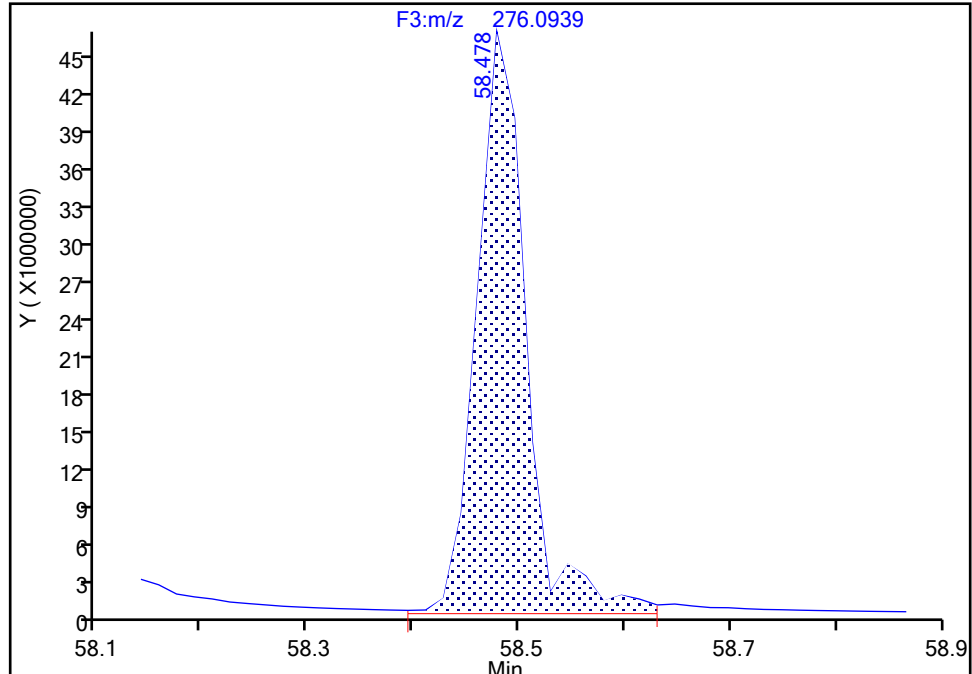
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Lims ID: IC L9  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

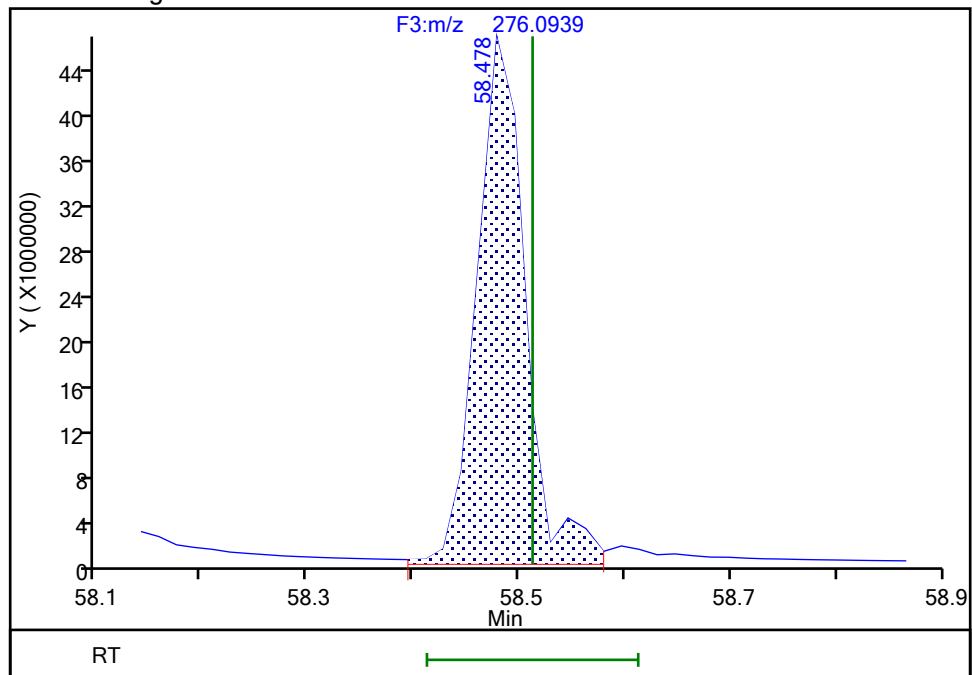
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## Processing Integration Results



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Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:48 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

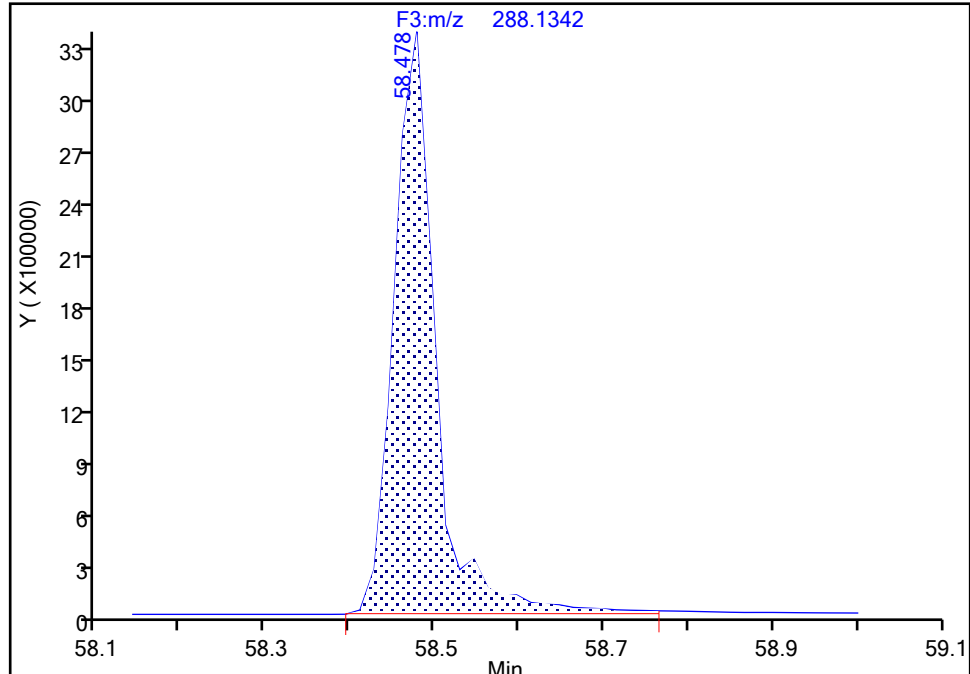
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Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C12-Benzo(ghi)perylene, CAS: 350820-11-0**

Signal: 1

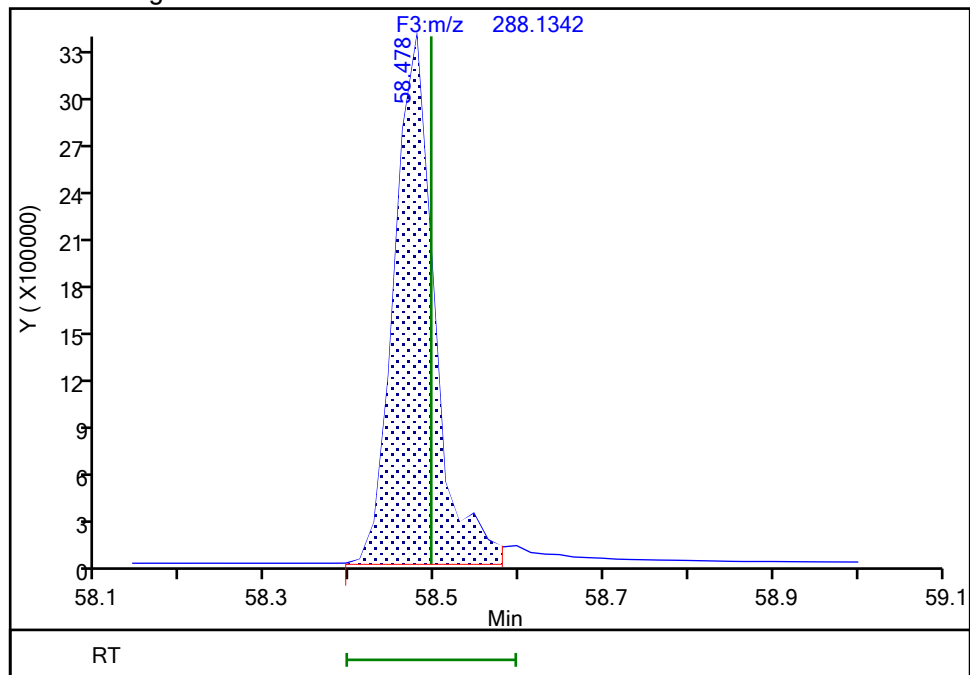
RT: 58.48  
Area: 11522655  
Amount: 124.6011  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.48  
Area: 11042946  
Amount: 120.1060  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:41 -04:00:00 (UTC)

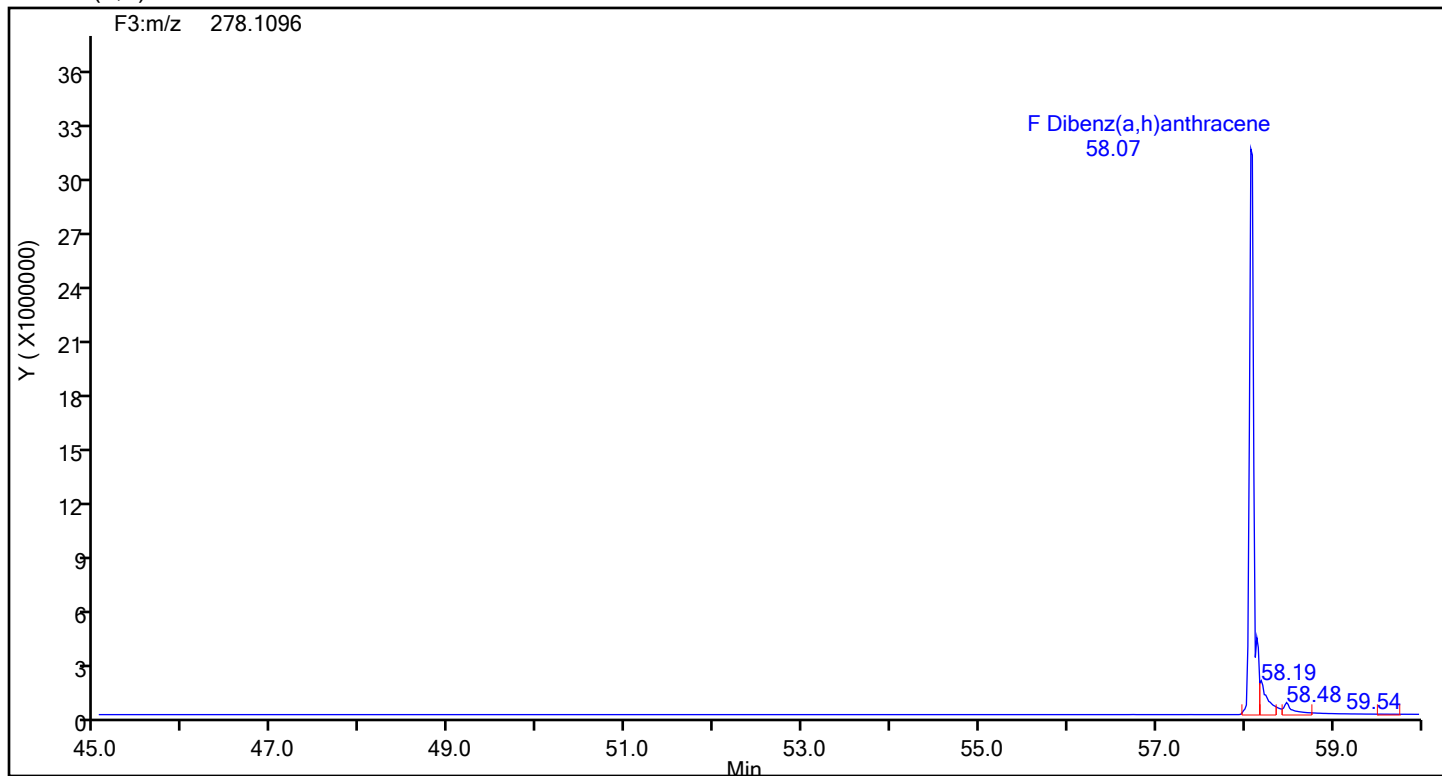
Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

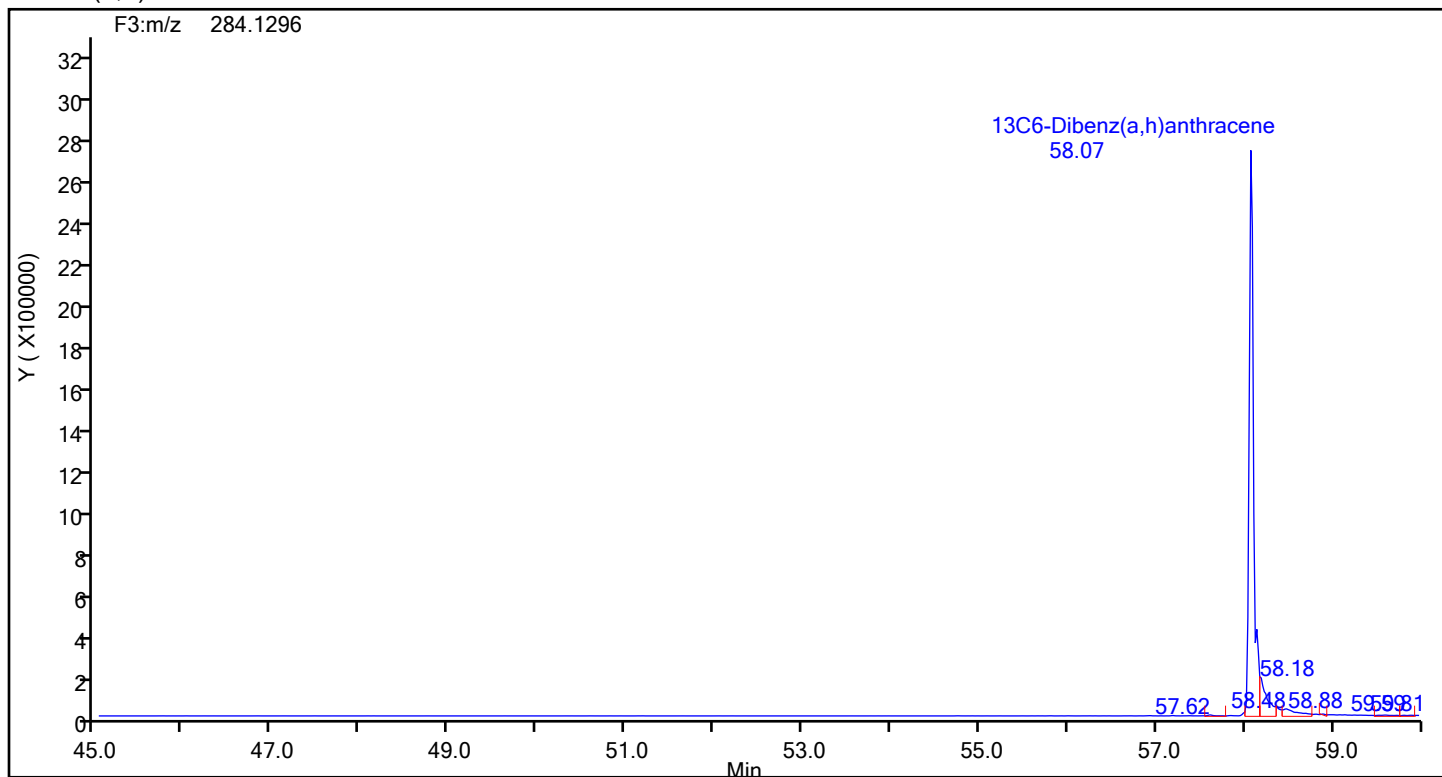
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Injection Date: 20-Jun-2024 01:09:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 9  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

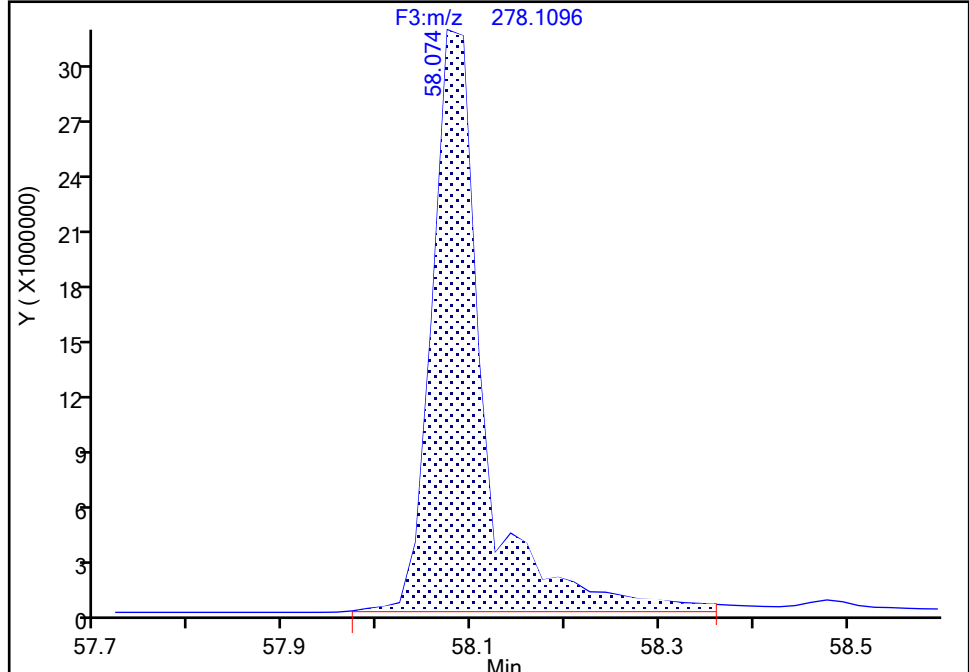
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\3240619ic9.d  
Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH  
Lims ID: IC L9  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

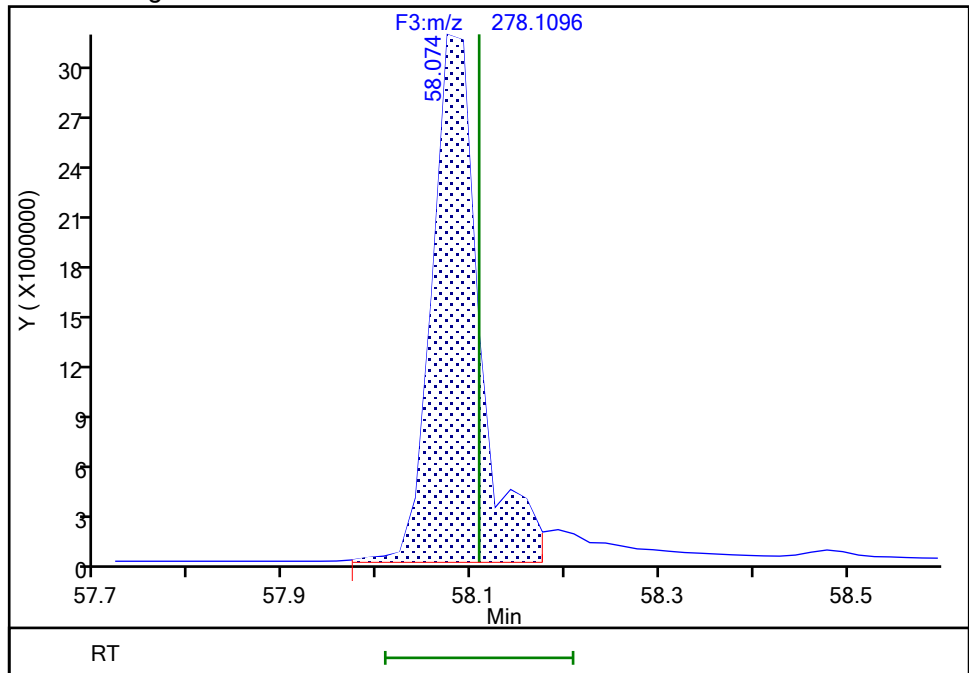
RT: 58.07  
Area: 120391306  
Amount: 1116.2911  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.07  
Area: 110582572  
Amount: 1035.8099  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:35 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

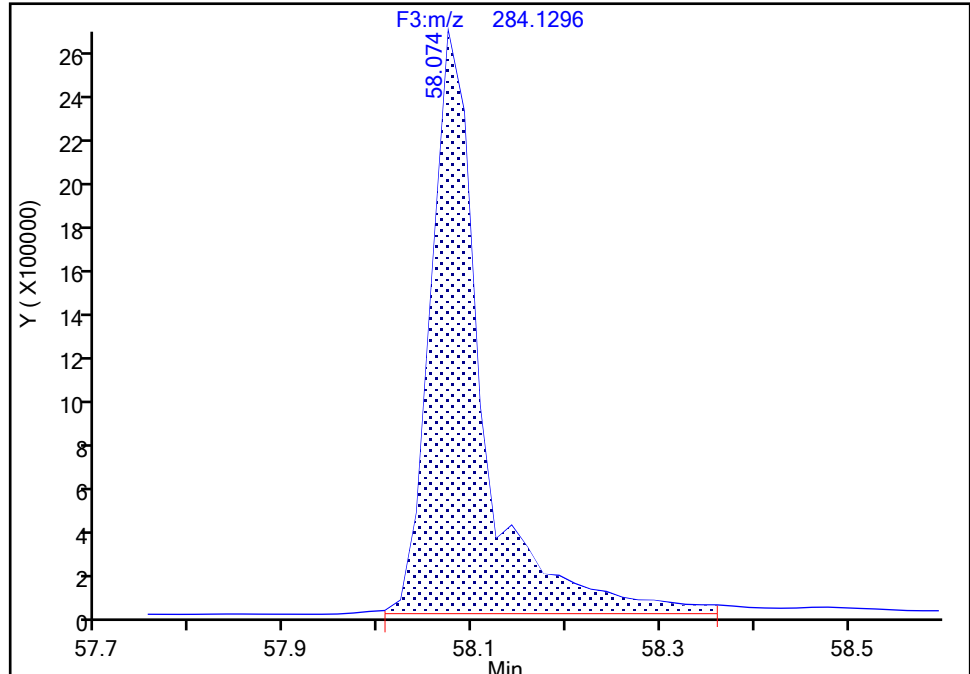
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\ld3240619ic9.d  
Injection Date: 20-Jun-2024 01:09:00 Instrument ID: D3PAH  
Lims ID: IC L9  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

**13C6-Dibenz(a,h)anthracene, CAS: STL03360**

Signal: 1

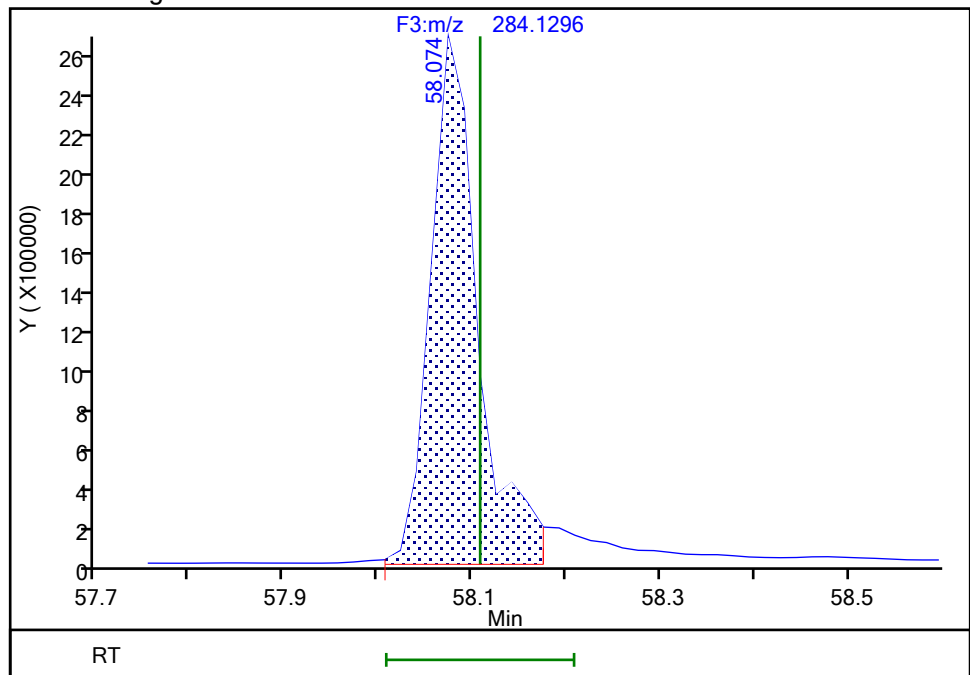
RT: 58.07  
Area: 10350790  
Amount: 134.2139  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.07  
Area: 9436274  
Amount: 123.9894  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:39:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

# Calibration

/ 13C12-Benzo(j)fluoranthene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

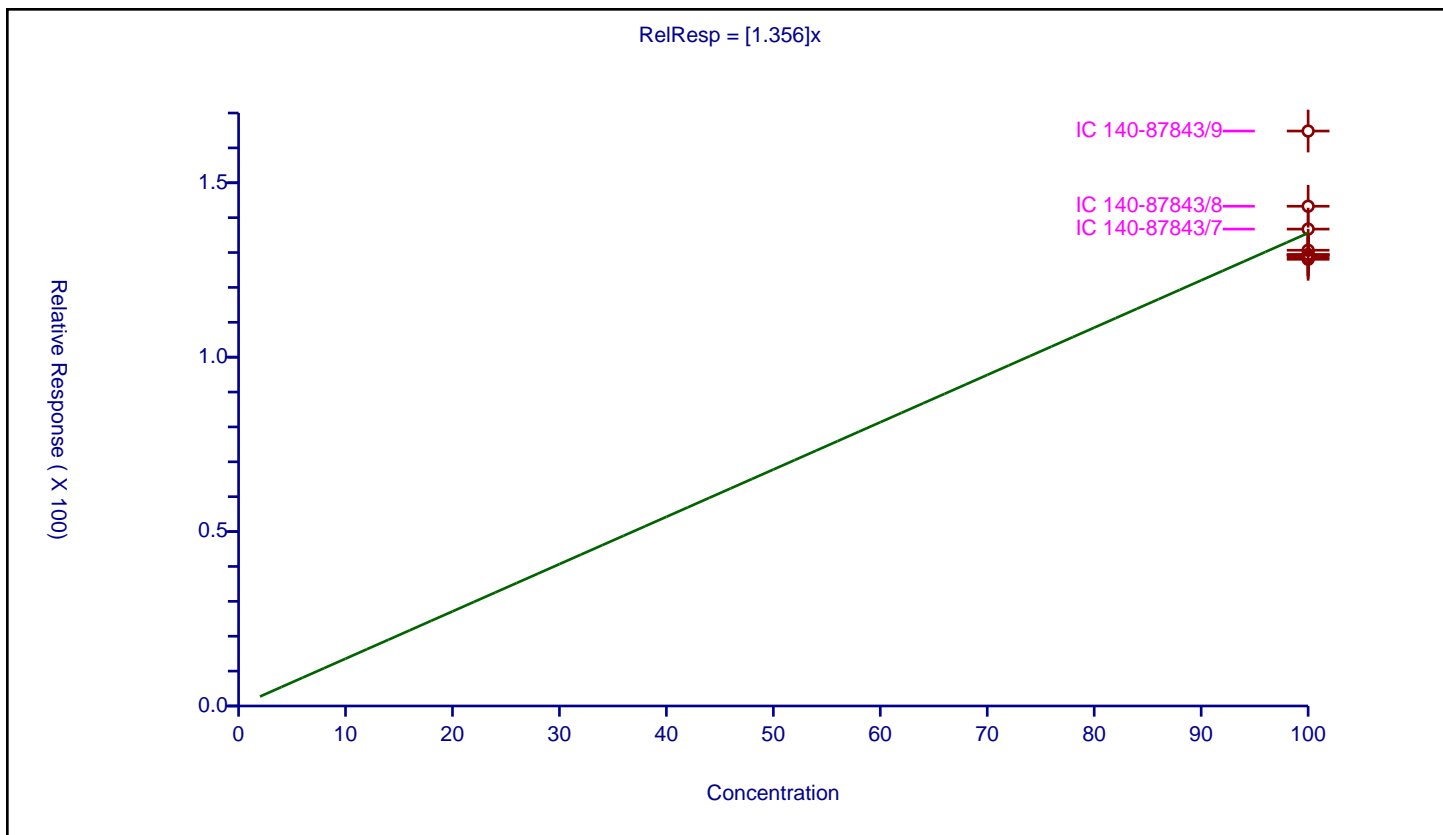
## Curve Coefficients

Intercept: 0  
 Slope: 1.356

## Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	100.0	129.337505	100.0	5060836.0	1.293375	Y
2	IC 140-87843/2	100.0	130.654858	100.0	5028172.0	1.306549	Y
3	IC 140-87843/3	100.0	128.630874	100.0	4927202.0	1.286309	Y
4	IC 140-87843/4	100.0	129.38599	100.0	5011388.0	1.29386	Y
5	IC 140-87843/5	100.0	129.357445	100.0	5318283.0	1.293574	Y
6	IC 140-87843/6	100.0	128.0567	100.0	5810473.0	1.280567	Y
7	IC 140-87843/7	100.0	136.719725	100.0	5799368.0	1.367197	Y
8	IC 140-87843/8	100.0	143.275573	100.0	6903874.0	1.432756	Y
9	IC 140-87843/9	100.0	164.834585	100.0	7211924.0	1.648346	Y





# Calibration

/ 13C6-Benzo(c)fluorene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

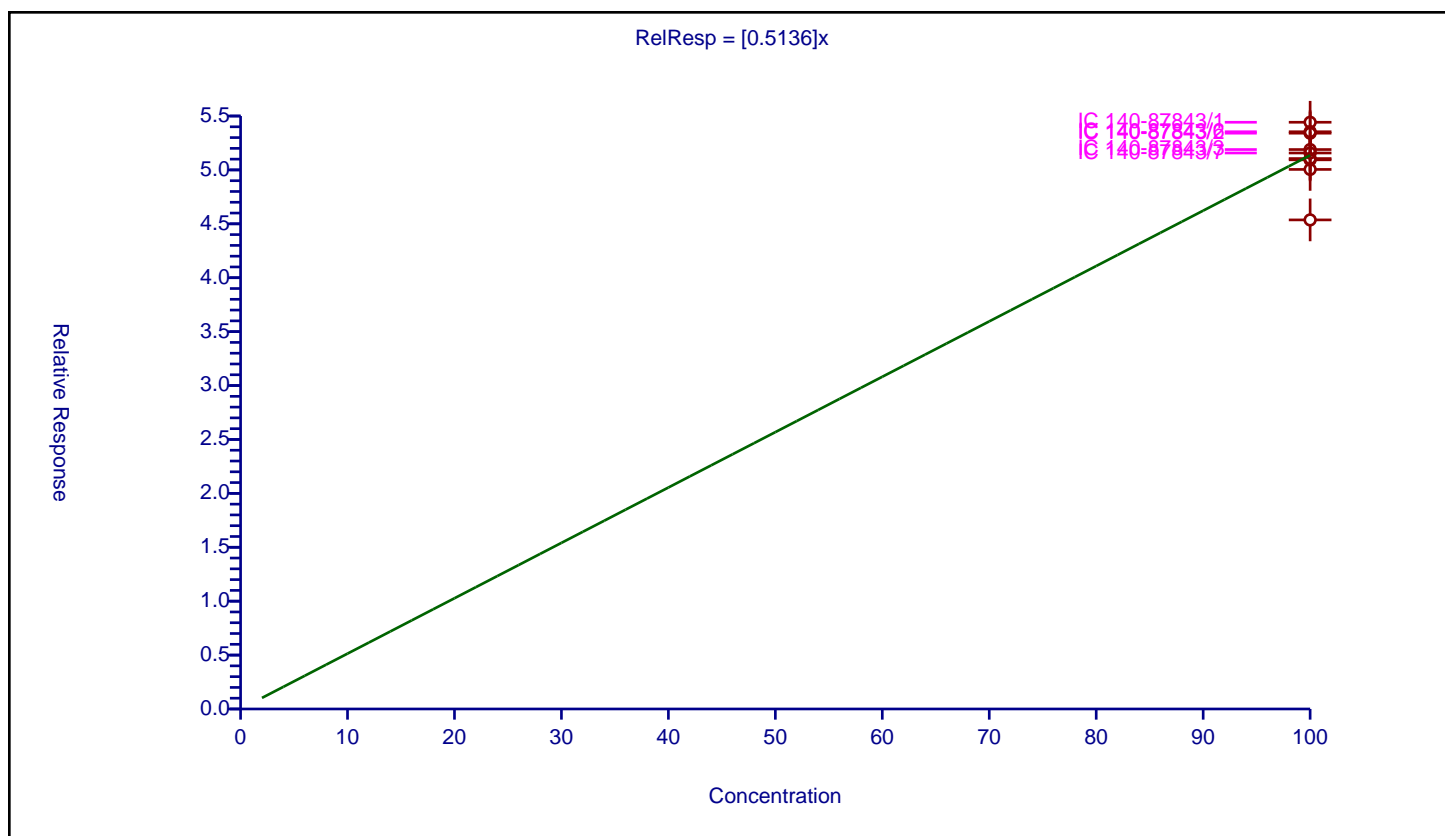
## Curve Coefficients

Intercept: 0  
 Slope: 0.5136

## Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	100.0	54.421406	100.0	6636938.0	0.544214	Y
2	IC 140-87843/2	100.0	53.406957	100.0	7097800.0	0.53407	Y
3	IC 140-87843/3	100.0	51.89137	100.0	7063080.0	0.518914	Y
4	IC 140-87843/4	100.0	45.364592	100.0	7837595.0	0.453646	Y
5	IC 140-87843/5	100.0	50.937027	100.0	6994144.0	0.50937	Y
6	IC 140-87843/6	100.0	53.540254	100.0	7731706.0	0.535403	Y
7	IC 140-87843/7	100.0	51.569874	100.0	8045261.0	0.515699	Y
8	IC 140-87843/8	100.0	51.054167	100.0	9327125.0	0.510542	Y
9	IC 140-87843/9	100.0	50.044562	100.0	9953605.0	0.500446	Y



## Calibration

## / 2-Methylnaphthalene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

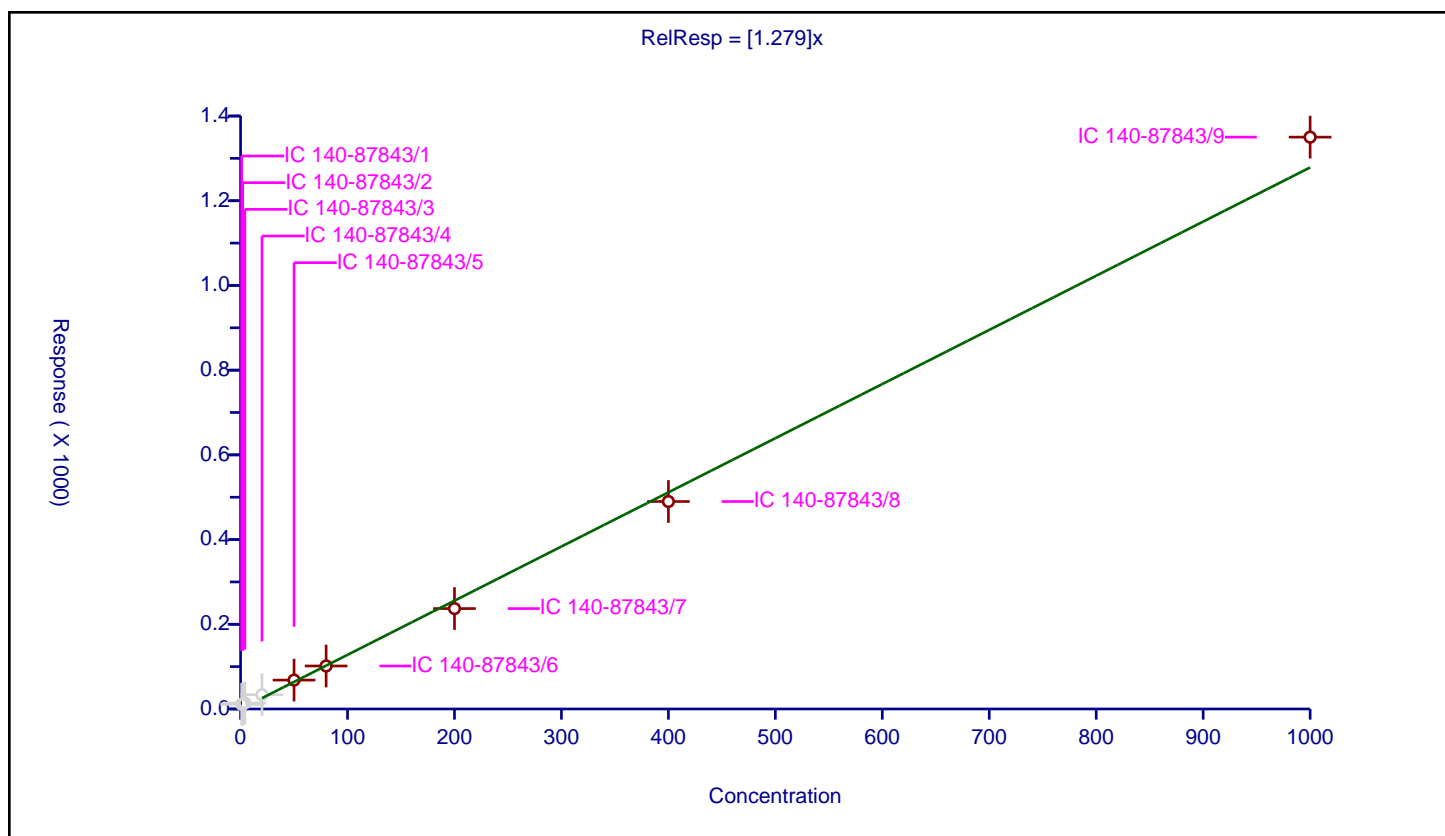
## Curve Coefficients

Intercept: 0  
Slope: 1.279

## Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	11.173881	100.0	4590652.0	11.173881	N
2	IC 140-87843/2	2.0	11.594961	100.0	4888063.0	5.797481	N
3	IC 140-87843/3	4.0	14.06532	100.0	4691404.0	3.51633	N
4	IC 140-87843/4	20.0	33.656277	100.0	5490022.0	1.682814	N
5	IC 140-87843/5	50.0	68.187804	100.0	4932932.0	1.363756	Y
6	IC 140-87843/6	80.0	101.505826	100.0	5726757.0	1.268823	Y
7	IC 140-87843/7	200.0	237.103291	100.0	5800321.0	1.185516	Y
8	IC 140-87843/8	400.0	489.830109	100.0	6439882.0	1.224575	Y
9	IC 140-87843/9	1000.0	1350.161797	100.0	7285064.0	1.350162	Y



## Calibration

/ Acenaphthene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

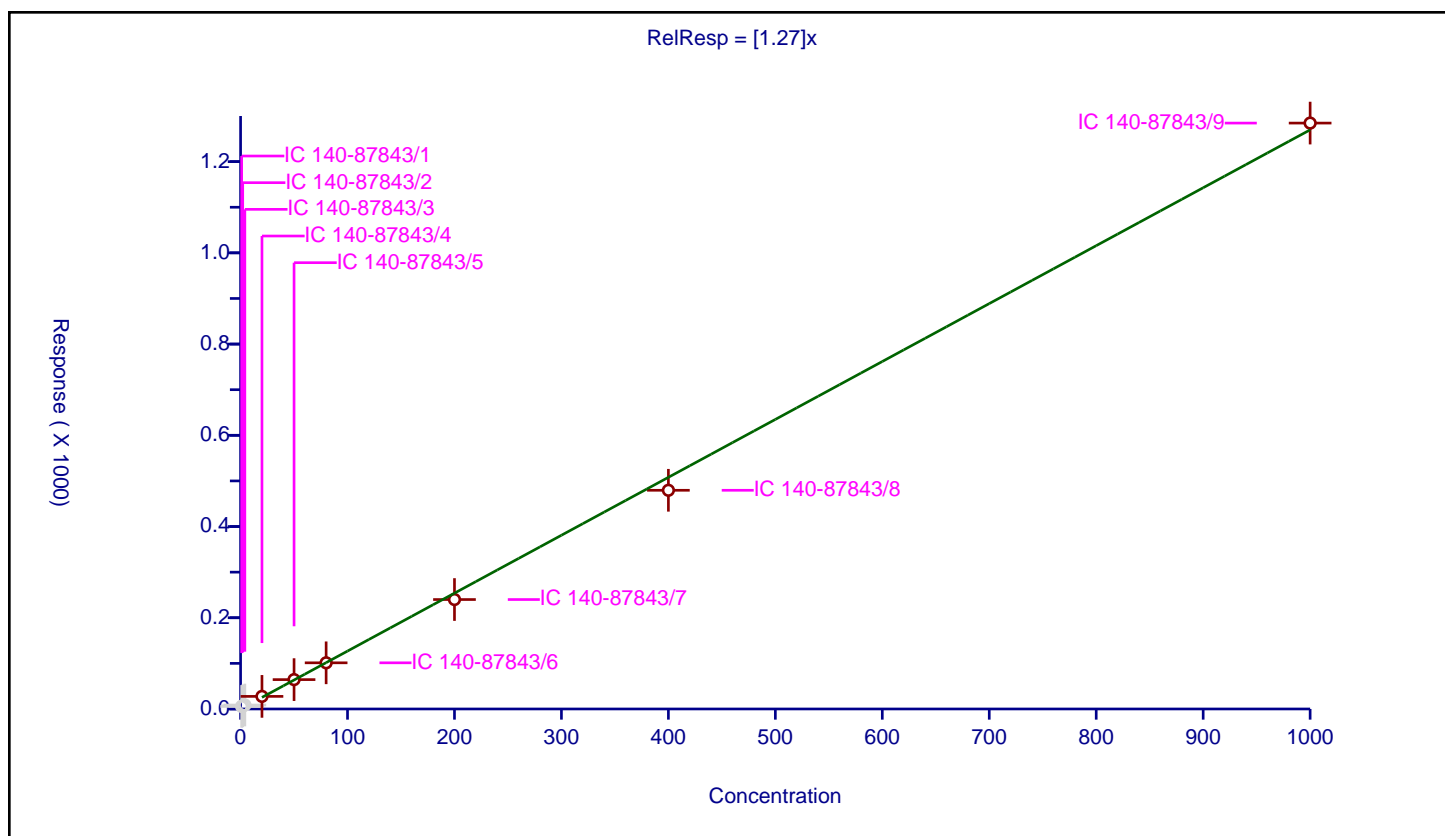
## Curve Coefficients

Intercept: 0  
Slope: 1.27

## Error Coefficients

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	5.644006	100.0	2649873.0	5.644006	N
2	IC 140-87843/2	2.0	6.845692	100.0	2794458.0	3.422846	N
3	IC 140-87843/3	4.0	8.670511	100.0	2973262.0	2.167628	N
4	IC 140-87843/4	20.0	27.64107	100.0	3399456.0	1.382053	Y
5	IC 140-87843/5	50.0	64.384133	100.0	2929756.0	1.287683	Y
6	IC 140-87843/6	80.0	101.22165	100.0	3599722.0	1.265271	Y
7	IC 140-87843/7	200.0	239.960295	100.0	3536065.0	1.199801	Y
8	IC 140-87843/8	400.0	479.506035	100.0	4039150.0	1.198765	Y
9	IC 140-87843/9	1000.0	1284.48027	100.0	4662594.0	1.28448	Y



# Calibration

/ Acenaphthylene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

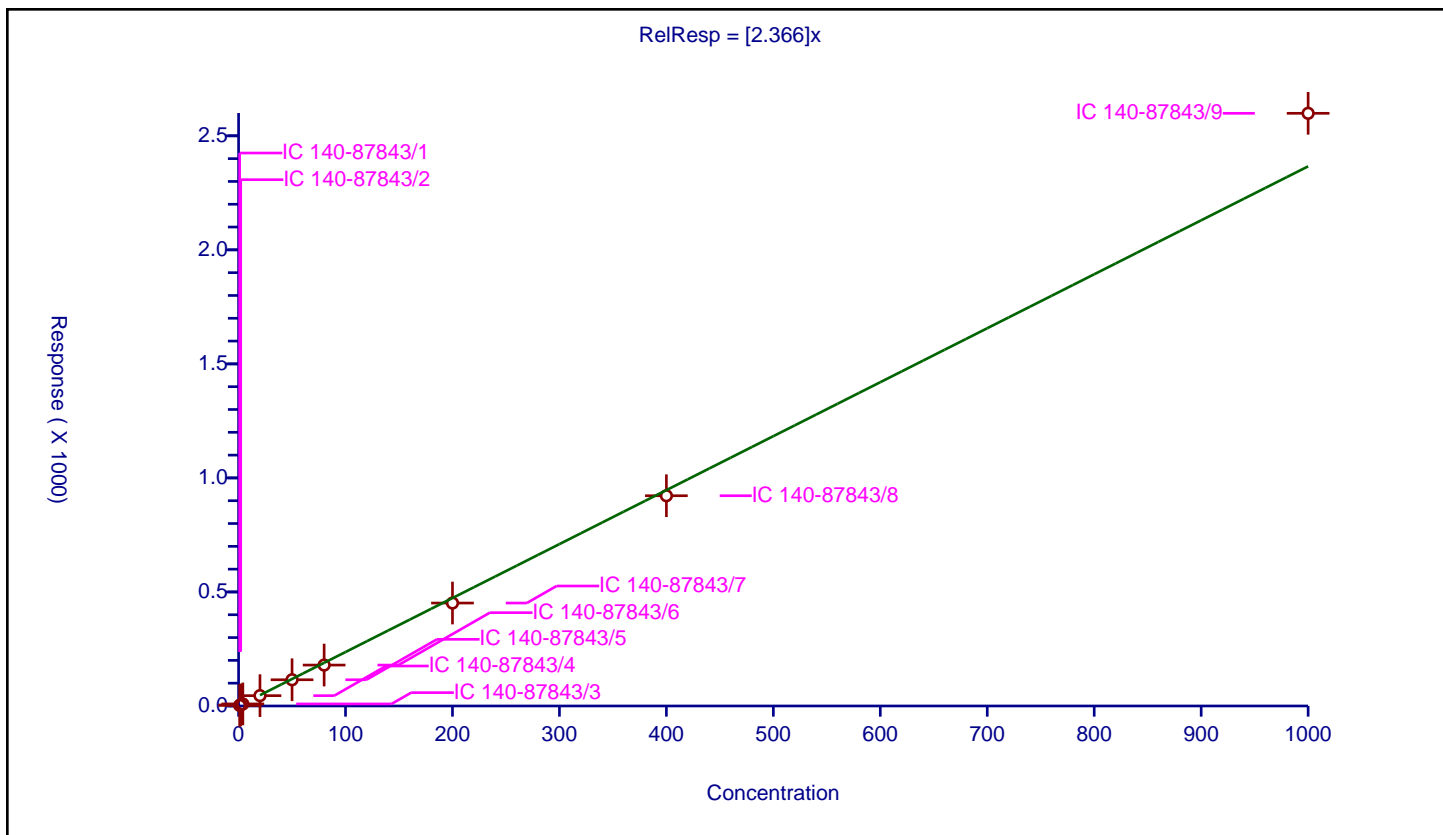
## Curve Coefficients

Intercept: 0  
Slope: 2.366

## Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	2.678393	100.0	2649873.0	2.678393	Y
2	IC 140-87843/2	2.0	4.765647	100.0	2794458.0	2.382823	Y
3	IC 140-87843/3	4.0	9.061125	100.0	2973262.0	2.265281	Y
4	IC 140-87843/4	20.0	45.331694	100.0	3399456.0	2.266585	Y
5	IC 140-87843/5	50.0	114.95104	100.0	2929756.0	2.299021	Y
6	IC 140-87843/6	80.0	179.433745	100.0	3599722.0	2.242922	Y
7	IC 140-87843/7	200.0	451.373801	100.0	3536065.0	2.256869	Y
8	IC 140-87843/8	400.0	921.847022	100.0	4039150.0	2.304618	Y
9	IC 140-87843/9	1000.0	2598.69519	100.0	4662594.0	2.598695	Y



## Calibration

/ Anthracene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

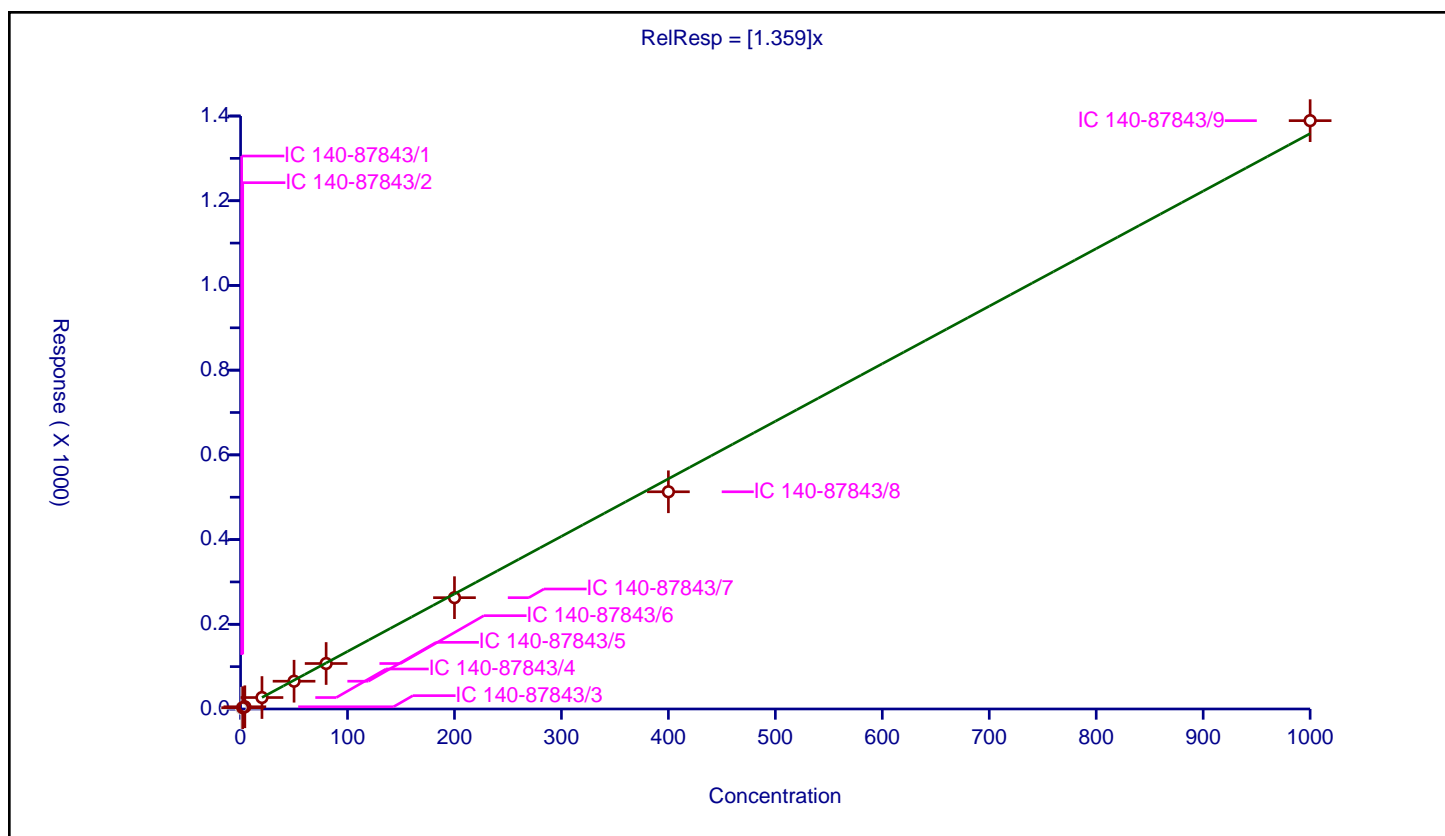
## Curve Coefficients

Intercept: 0  
Slope: 1.359

## Error Coefficients

Relative Standard Deviation: 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.76	100.0	2810000.0	1.76	N
2	IC 140-87843/2	2.0	3.115511	100.0	2927417.0	1.557756	Y
3	IC 140-87843/3	4.0	5.274407	100.0	3047129.0	1.318602	Y
4	IC 140-87843/4	20.0	27.054318	100.0	3635963.0	1.352716	Y
5	IC 140-87843/5	50.0	65.579811	100.0	3095933.0	1.311596	Y
6	IC 140-87843/6	80.0	107.408061	100.0	3339808.0	1.342601	Y
7	IC 140-87843/7	200.0	262.852584	100.0	3744430.0	1.314263	Y
8	IC 140-87843/8	400.0	512.849879	100.0	4474470.0	1.282125	Y
9	IC 140-87843/9	1000.0	1389.072733	100.0	5177443.0	1.389073	Y



# Calibration

/ Anthracin-d10

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

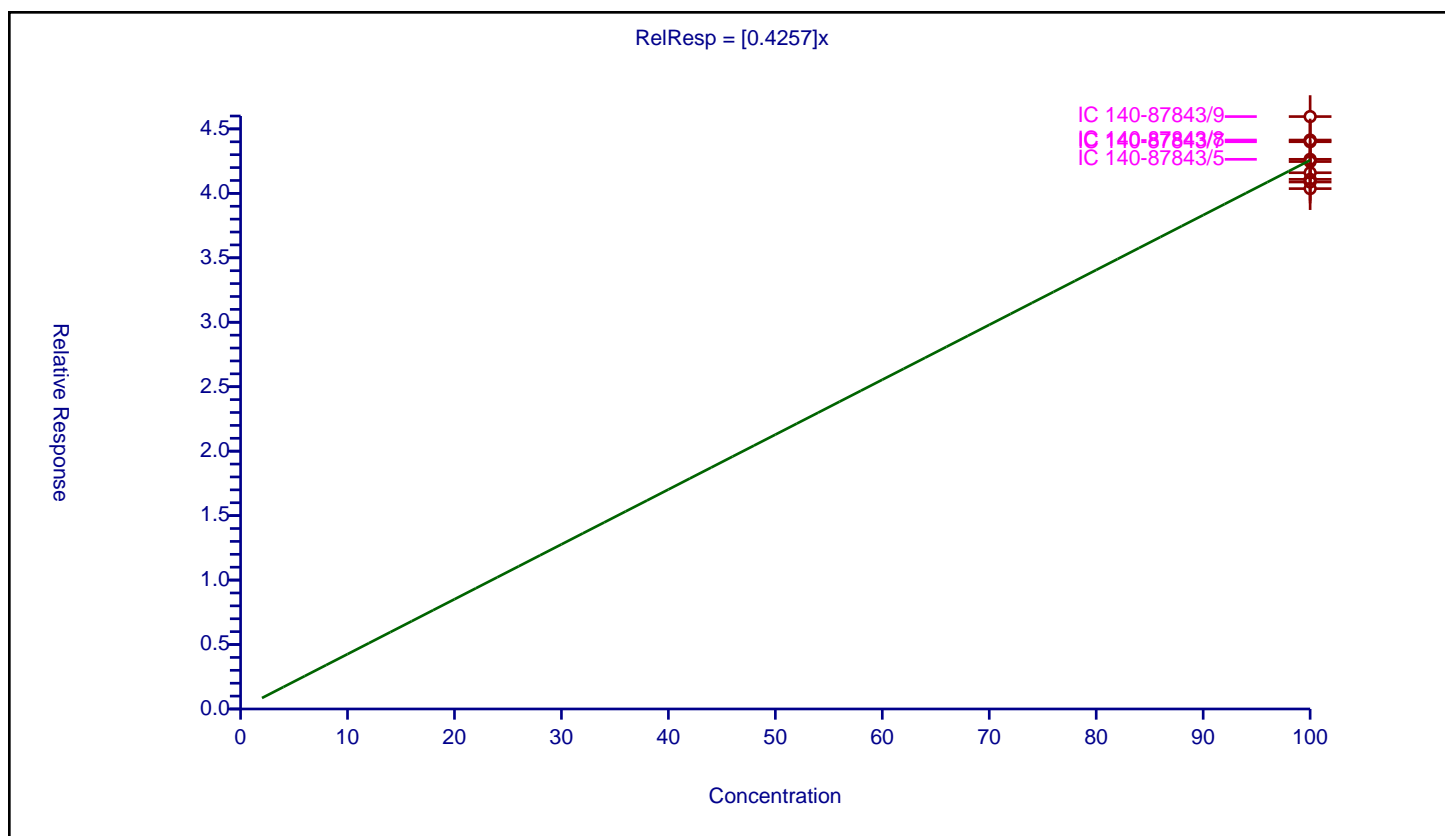
## Curve Coefficients

Intercept: 0  
 Slope: 0.4257

## Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	100.0	40.88078	100.0	6636938.0	0.408808	Y
2	IC 140-87843/2	100.0	41.088718	100.0	7097800.0	0.410887	Y
3	IC 140-87843/3	100.0	40.367304	100.0	7063080.0	0.403673	Y
4	IC 140-87843/4	100.0	42.463702	100.0	7837595.0	0.424637	Y
5	IC 140-87843/5	100.0	42.640643	100.0	6994144.0	0.426406	Y
6	IC 140-87843/6	100.0	41.600276	100.0	7731706.0	0.416003	Y
7	IC 140-87843/7	100.0	44.004191	100.0	8045261.0	0.440042	Y
8	IC 140-87843/8	100.0	44.135594	100.0	9327125.0	0.441356	Y
9	IC 140-87843/9	100.0	45.956827	100.0	9953605.0	0.459568	Y



## Calibration

/ Benzo[a]anthracene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

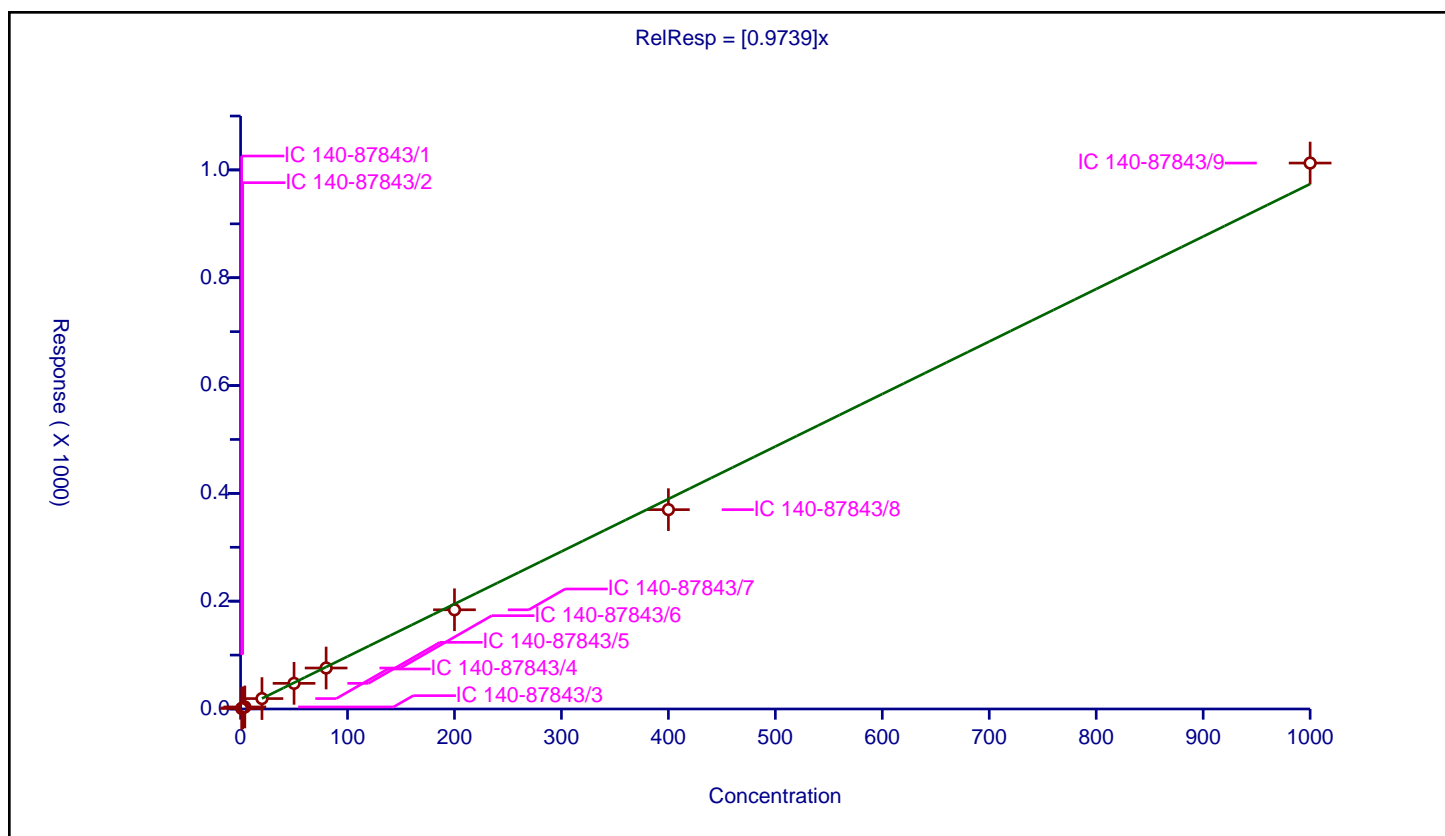
## Curve Coefficients

Intercept: 0  
Slope: 0.9739

## Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.03781	100.0	7605148.0	1.03781	Y
2	IC 140-87843/2	2.0	2.121091	100.0	7671524.0	1.060545	Y
3	IC 140-87843/3	4.0	3.769102	100.0	7504068.0	0.942276	Y
4	IC 140-87843/4	20.0	19.315776	100.0	7704055.0	0.965789	Y
5	IC 140-87843/5	50.0	47.551652	100.0	7783391.0	0.951033	Y
6	IC 140-87843/6	80.0	75.994072	100.0	8168778.0	0.949926	Y
7	IC 140-87843/7	200.0	184.021642	100.0	8485215.0	0.920108	Y
8	IC 140-87843/8	400.0	369.79461	100.0	10694535.0	0.924487	Y
9	IC 140-87843/9	1000.0	1012.761185	100.0	12260100.0	1.012761	Y



## Calibration

/ Benzo[a]pyrene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

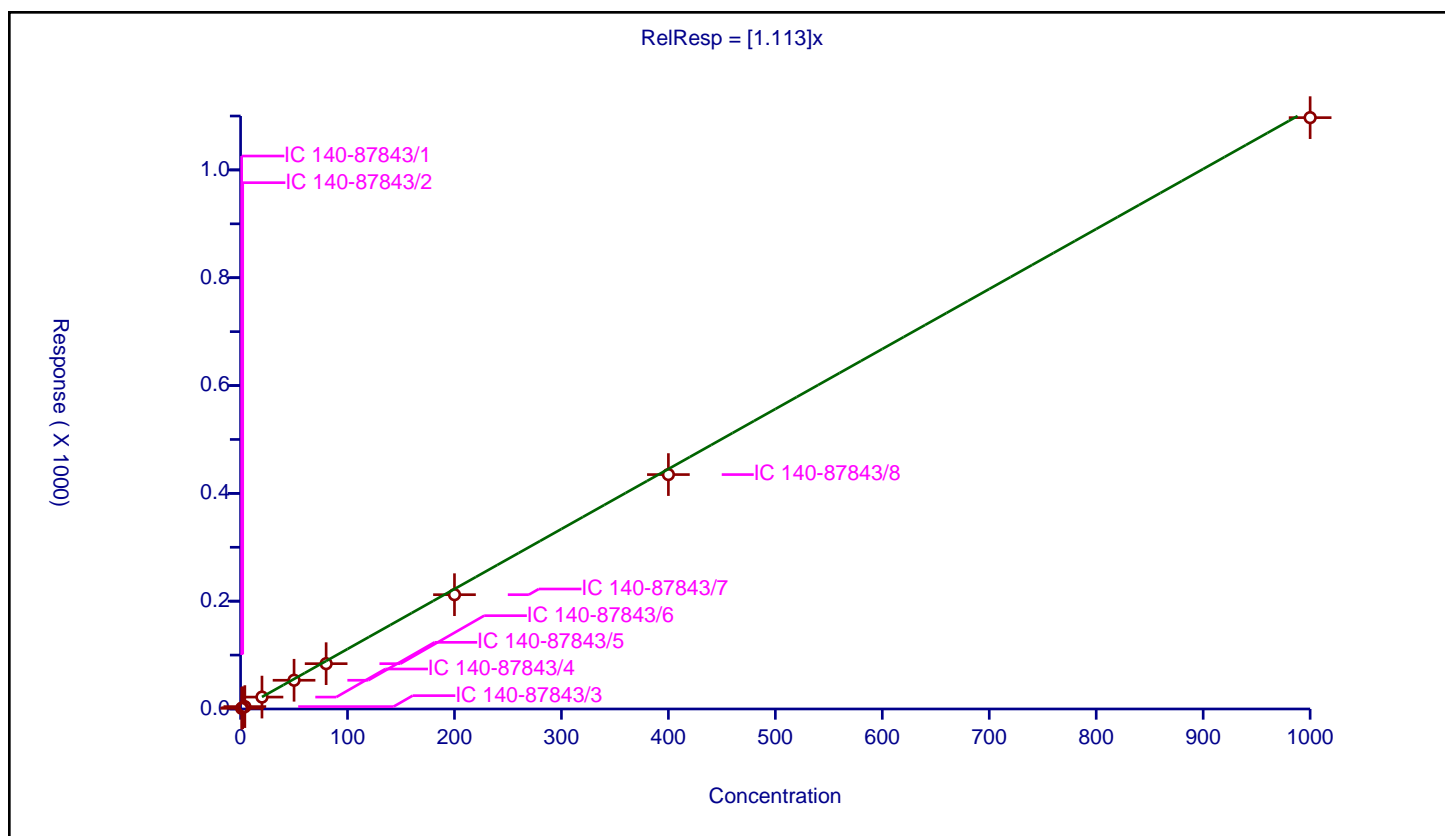
## Curve Coefficients

Intercept: 0  
Slope: 1.113

## Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.241342	100.0	7271246.0	1.241342	Y
2	IC 140-87843/2	2.0	2.419433	100.0	7368833.0	1.209717	Y
3	IC 140-87843/3	4.0	4.403362	100.0	7222186.0	1.100841	Y
4	IC 140-87843/4	20.0	22.082888	100.0	7518310.0	1.104144	Y
5	IC 140-87843/5	50.0	53.316967	100.0	7915726.0	1.066339	Y
6	IC 140-87843/6	80.0	84.058294	100.0	8413993.0	1.050729	Y
7	IC 140-87843/7	200.0	212.026695	100.0	8772202.0	1.060133	Y
8	IC 140-87843/8	400.0	434.832634	100.0	11267474.0	1.087082	Y
9	IC 140-87843/9	1000.0	1096.960517	100.0	14479273.0	1.096961	Y





## Calibration

/ Benzo[b]fluoranthene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

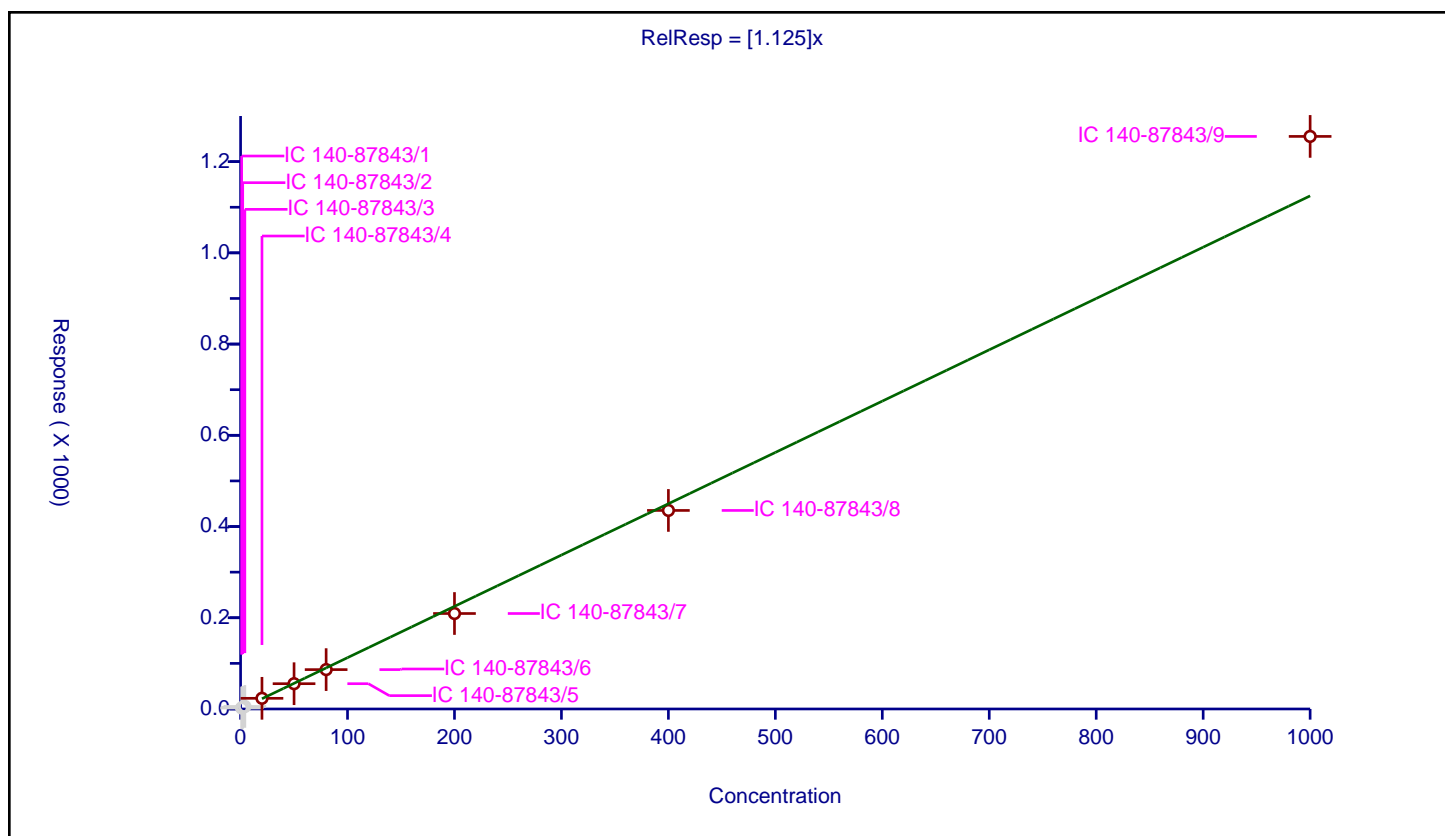
## Curve Coefficients

Intercept: 0  
Slope: 1.125

## Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	2.218432	100.0	7044571.0	2.218432	N
2	IC 140-87843/2	2.0	3.520719	100.0	6995957.0	1.76036	N
3	IC 140-87843/3	4.0	5.577365	100.0	6808556.0	1.394341	N
4	IC 140-87843/4	20.0	23.426326	100.0	7226370.0	1.171316	Y
5	IC 140-87843/5	50.0	55.443172	100.0	7699352.0	1.108863	Y
6	IC 140-87843/6	80.0	86.347694	100.0	8052237.0	1.079346	Y
7	IC 140-87843/7	200.0	209.295166	100.0	8615715.0	1.046476	Y
8	IC 140-87843/8	400.0	435.284705	100.0	10435051.0	1.088212	Y
9	IC 140-87843/9	1000.0	1255.252954	100.0	12410189.0	1.255253	Y



## Calibration

/ Benzo[e]pyrene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

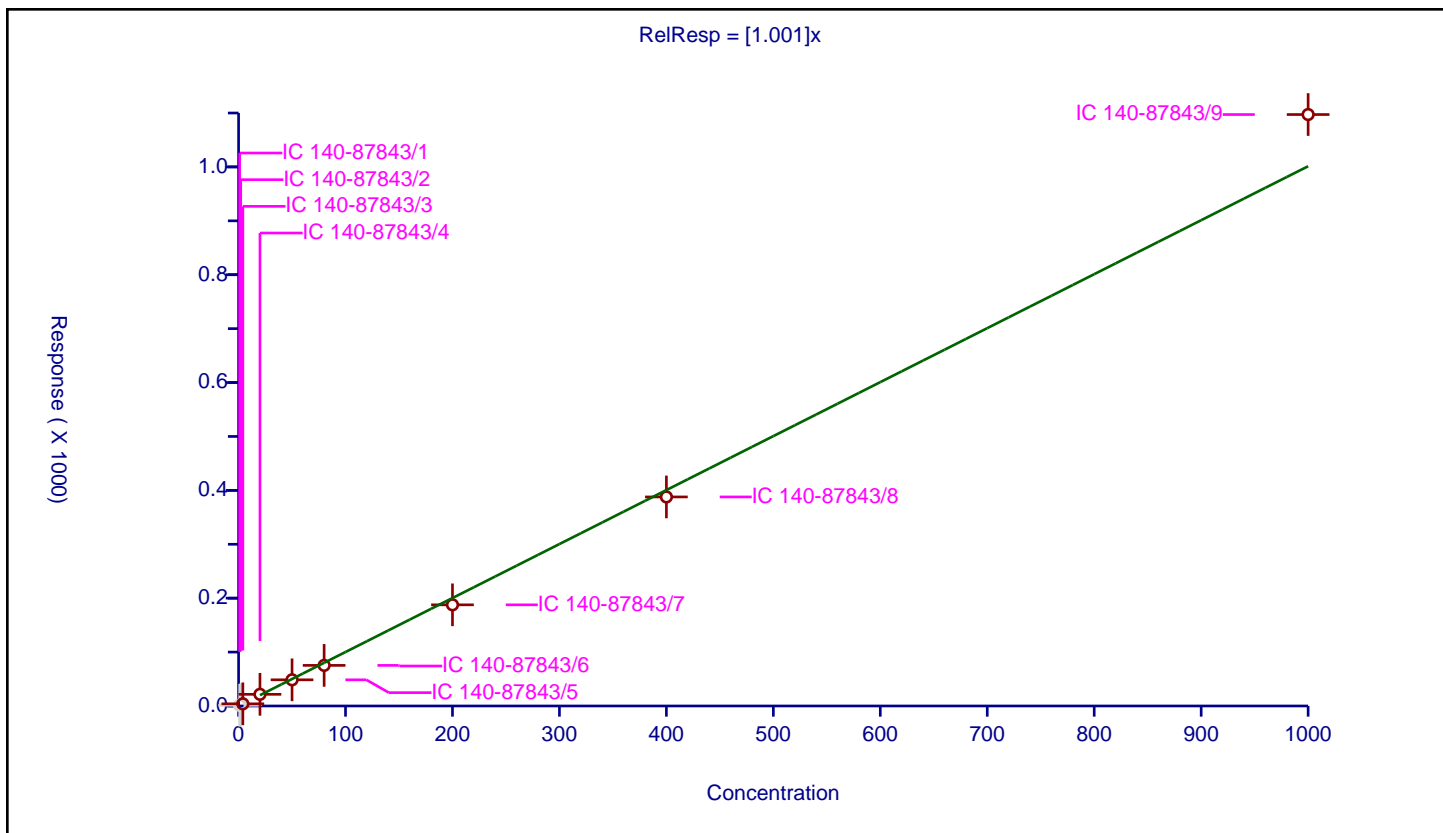
## Curve Coefficients

Intercept: 0  
Slope: 1.001

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.257228	100.0	7869617.0	1.257228	N
2	IC 140-87843/2	2.0	2.500018	100.0	7870944.0	1.250009	N
3	IC 140-87843/3	4.0	4.033169	100.0	7853527.0	1.008292	Y
4	IC 140-87843/4	20.0	21.65788	100.0	8133857.0	1.082894	Y
5	IC 140-87843/5	50.0	48.569391	100.0	8346864.0	0.971388	Y
6	IC 140-87843/6	80.0	75.305819	100.0	9036295.0	0.941323	Y
7	IC 140-87843/7	200.0	187.652164	100.0	9276322.0	0.938261	Y
8	IC 140-87843/8	400.0	387.812314	100.0	11723054.0	0.969531	Y
9	IC 140-87843/9	1000.0	1097.197805	100.0	14222064.0	1.097198	Y



## Calibration

/ Benzo[g,h,i]perylene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

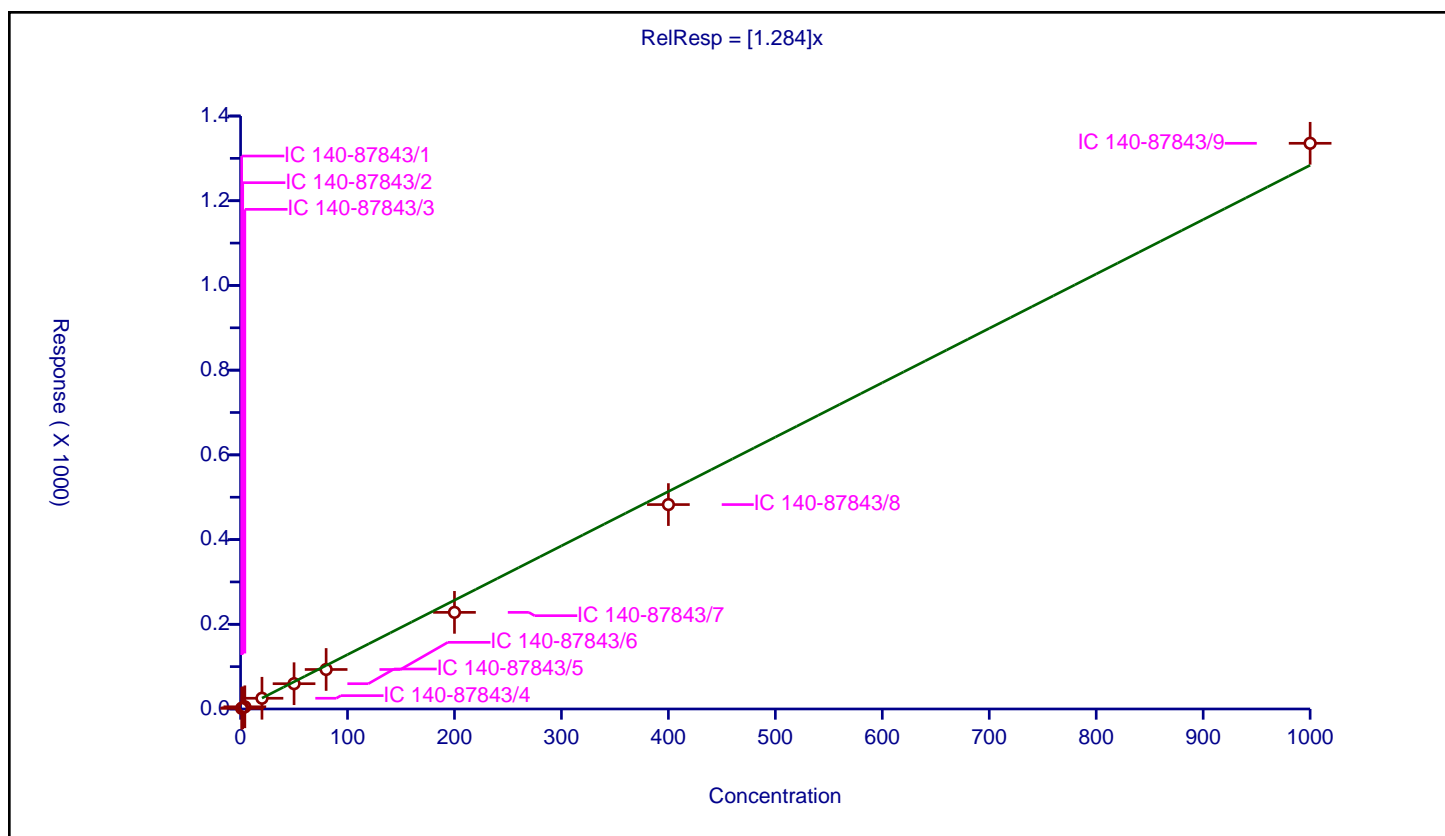
## Curve Coefficients

Intercept: 0  
Slope: 1.284

## Error Coefficients

Relative Standard Deviation: 9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.516658	100.0	5925593.0	1.516658	Y
2	IC 140-87843/2	2.0	2.869052	100.0	6532018.0	1.434526	Y
3	IC 140-87843/3	4.0	5.167395	100.0	5830946.0	1.291849	Y
4	IC 140-87843/4	20.0	25.354433	100.0	6056294.0	1.267722	Y
5	IC 140-87843/5	50.0	59.702766	100.0	6552075.0	1.194055	Y
6	IC 140-87843/6	80.0	93.285458	100.0	7011632.0	1.166068	Y
7	IC 140-87843/7	200.0	228.146826	100.0	7551974.0	1.140734	Y
8	IC 140-87843/8	400.0	482.641798	100.0	9250572.0	1.206604	Y
9	IC 140-87843/9	1000.0	1335.585921	100.0	11042946.0	1.335586	Y



## Calibration

/ Benzo[k]fluoranthene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

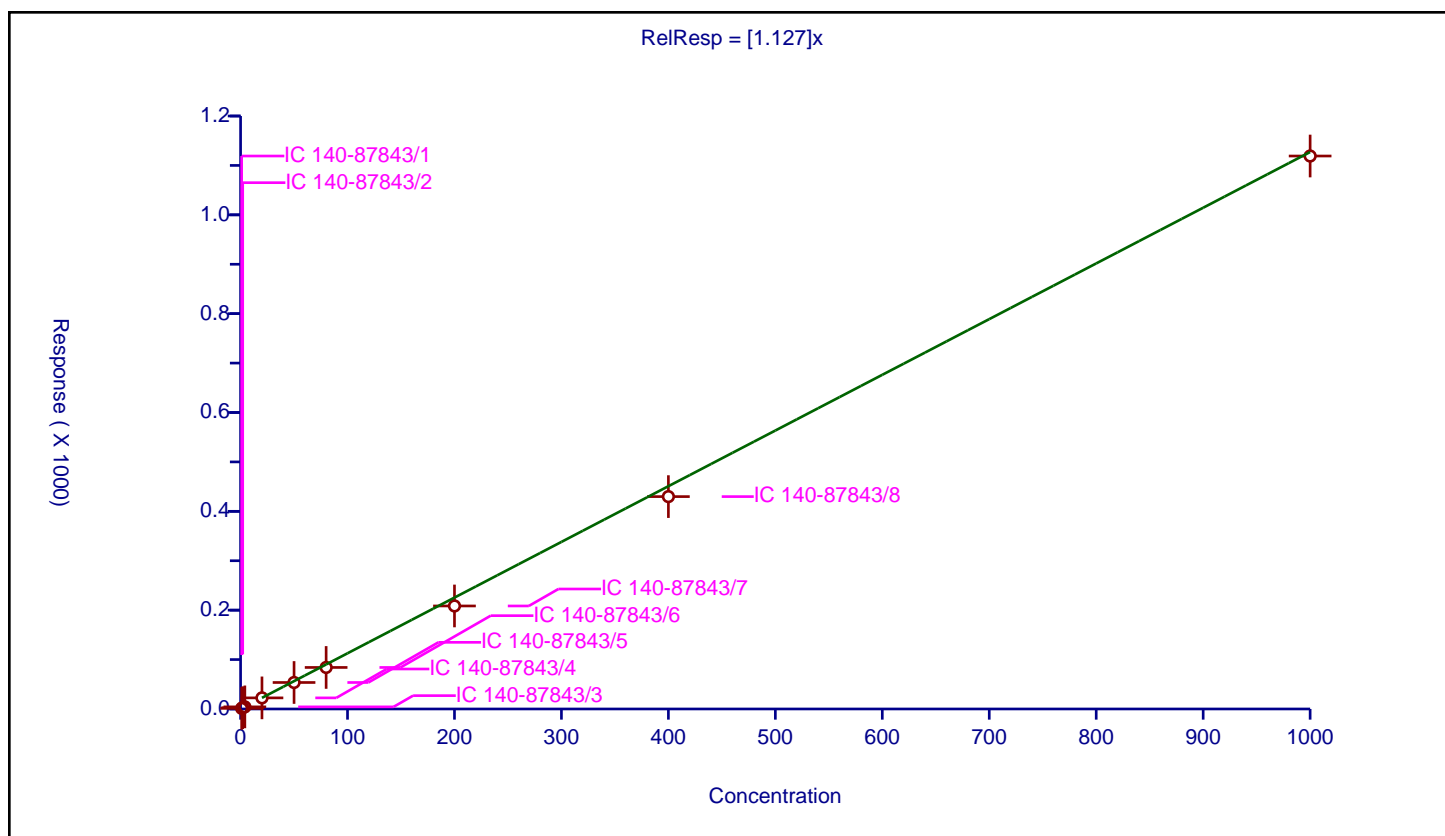
## Curve Coefficients

Intercept: 0  
Slope: 1.127

## Error Coefficients

Relative Standard Deviation: 9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.247204	100.0	8157925.0	1.247204	Y
2	IC 140-87843/2	2.0	2.68761	100.0	8172987.0	1.343805	Y
3	IC 140-87843/3	4.0	4.275765	100.0	8218810.0	1.068941	Y
4	IC 140-87843/4	20.0	22.48628	100.0	8387092.0	1.124314	Y
5	IC 140-87843/5	50.0	53.627197	100.0	9021801.0	1.072544	Y
6	IC 140-87843/6	80.0	84.067587	100.0	9461461.0	1.050845	Y
7	IC 140-87843/7	200.0	208.512326	100.0	10118186.0	1.042562	Y
8	IC 140-87843/8	400.0	429.801092	100.0	12917530.0	1.074503	Y
9	IC 140-87843/9	1000.0	1119.032455	100.0	16130058.0	1.119032	Y



## Calibration

/ Chrysene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

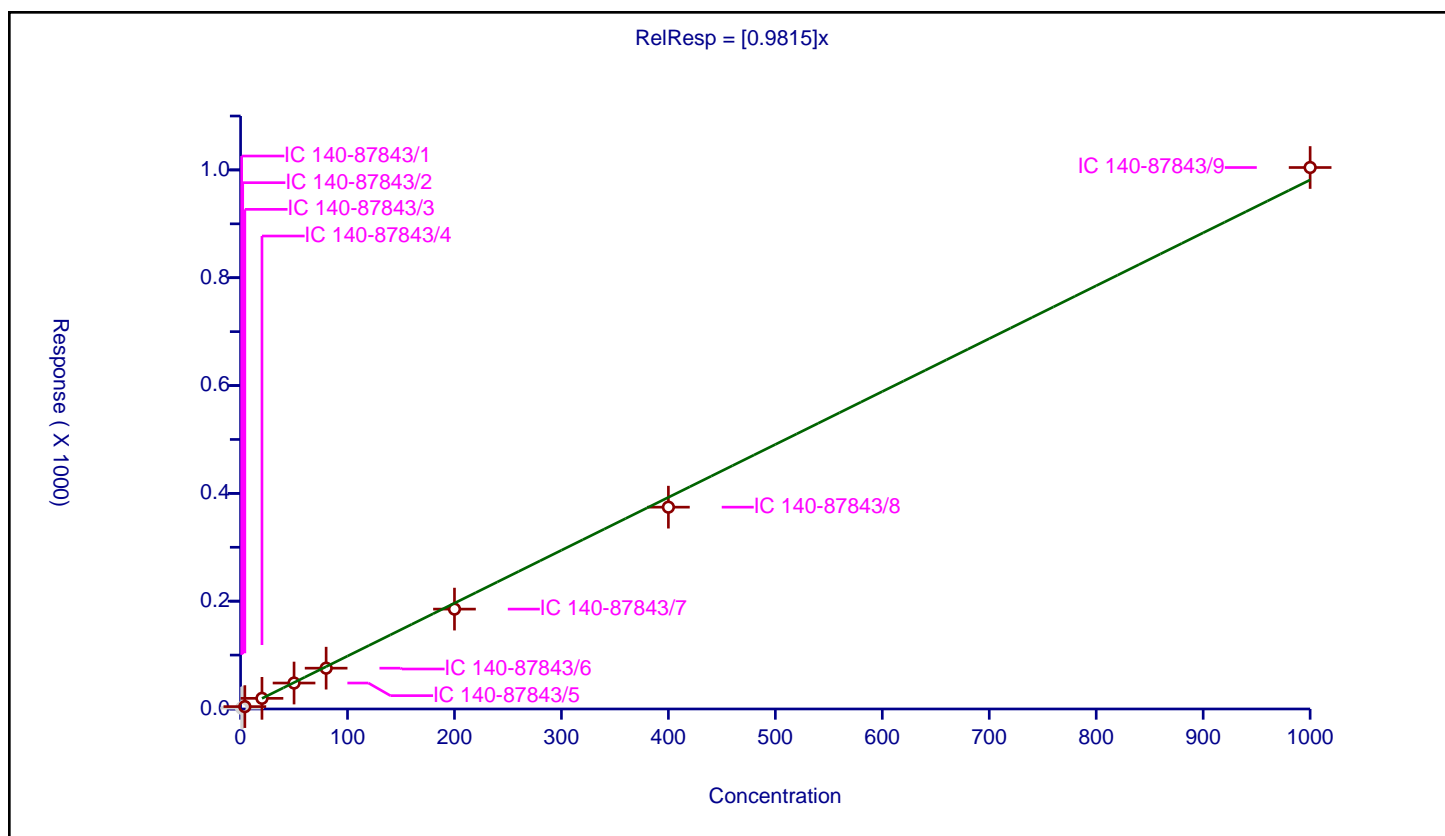
## Curve Coefficients

Intercept: 0  
Slope: 0.9815

## Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.537554	100.0	7872763.0	1.537554	N
2	IC 140-87843/2	2.0	2.757934	100.0	8190879.0	1.378967	N
3	IC 140-87843/3	4.0	4.42542	100.0	7844204.0	1.106355	Y
4	IC 140-87843/4	20.0	19.754729	100.0	8166961.0	0.987736	Y
5	IC 140-87843/5	50.0	48.13393	100.0	8407429.0	0.962679	Y
6	IC 140-87843/6	80.0	75.723312	100.0	8805464.0	0.946541	Y
7	IC 140-87843/7	200.0	185.284376	100.0	9283915.0	0.926422	Y
8	IC 140-87843/8	400.0	374.389838	100.0	11695295.0	0.935975	Y
9	IC 140-87843/9	1000.0	1004.470404	100.0	13421719.0	1.00447	Y



## Calibration

/ Dibenz(a,h)anthracene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

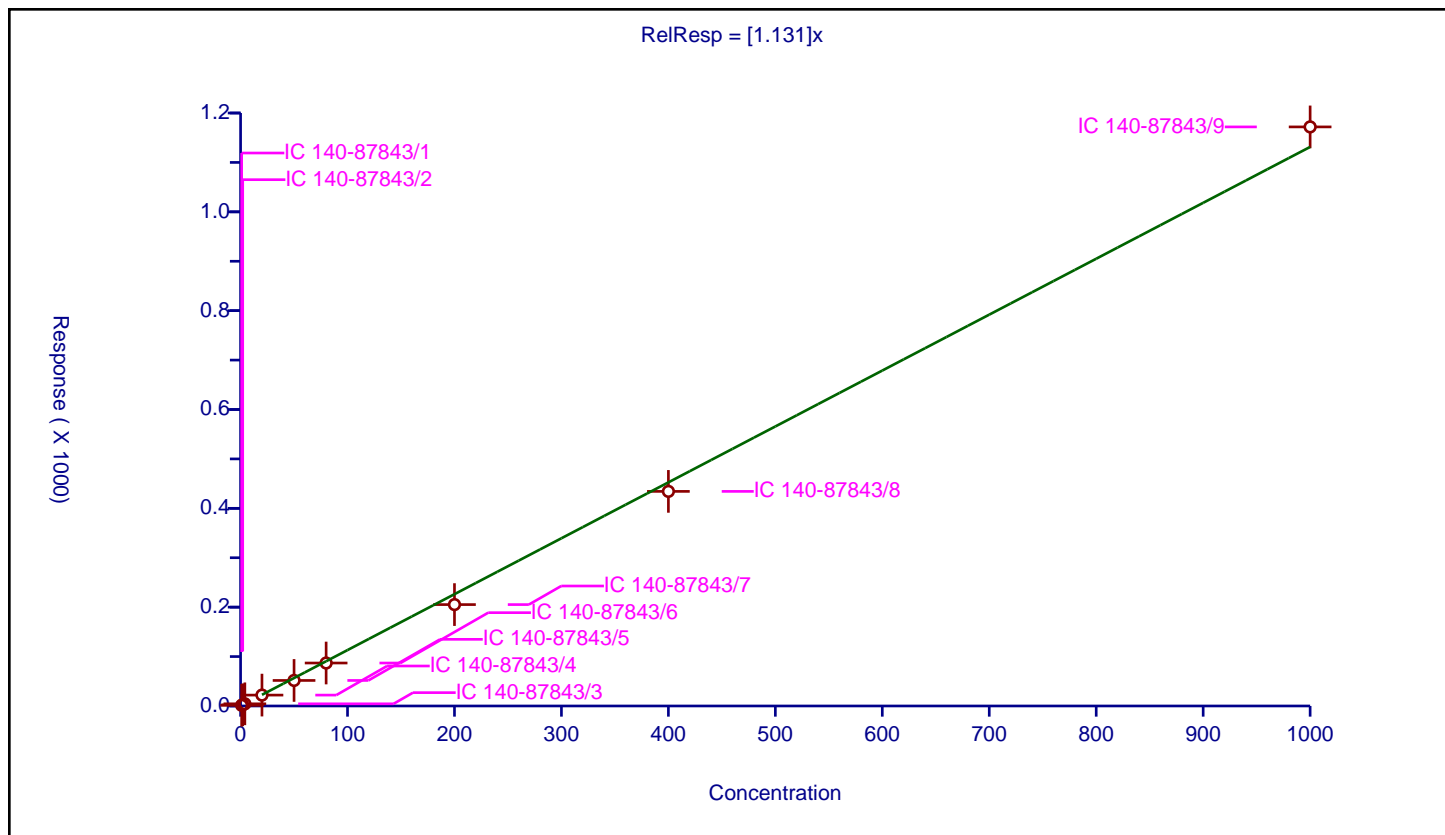
## Curve Coefficients

Intercept: 0  
Slope: 1.131

## Error Coefficients

Relative Standard Deviation: 9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.356093	100.0	5080699.0	1.356093	Y
2	IC 140-87843/2	2.0	2.433341	100.0	5414078.0	1.216671	Y
3	IC 140-87843/3	4.0	4.416368	100.0	4776504.0	1.104092	Y
4	IC 140-87843/4	20.0	22.029045	100.0	4988169.0	1.101452	Y
5	IC 140-87843/5	50.0	51.677938	100.0	5397040.0	1.033559	Y
6	IC 140-87843/6	80.0	86.947855	100.0	5580937.0	1.086848	Y
7	IC 140-87843/7	200.0	205.213845	100.0	6110020.0	1.026069	Y
8	IC 140-87843/8	400.0	434.276418	100.0	7695778.0	1.085691	Y
9	IC 140-87843/9	1000.0	1171.888099	100.0	9436274.0	1.171888	Y



## Calibration

/ Fluoranthene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

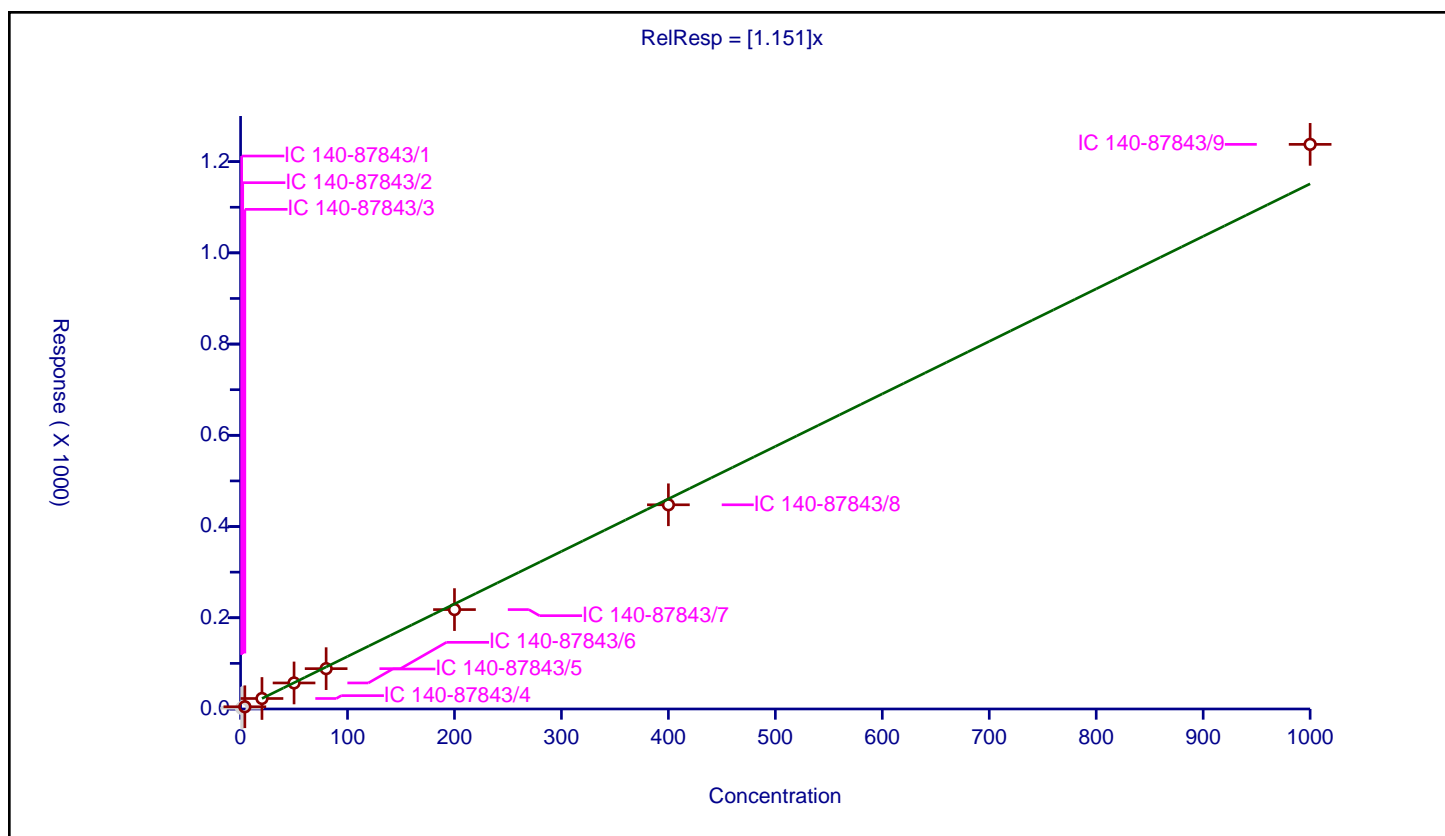
## Curve Coefficients

Intercept: 0  
Slope: 1.151

## Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.670143	100.0	7580251.0	1.670143	N
2	IC 140-87843/2	2.0	3.655564	100.0	7938309.0	1.827782	N
3	IC 140-87843/3	4.0	4.857213	100.0	8154780.0	1.214303	Y
4	IC 140-87843/4	20.0	23.025217	100.0	9182667.0	1.151261	Y
5	IC 140-87843/5	50.0	57.099674	100.0	8354538.0	1.141993	Y
6	IC 140-87843/6	80.0	88.405901	100.0	9143194.0	1.105074	Y
7	IC 140-87843/7	200.0	217.919372	100.0	9842103.0	1.089597	Y
8	IC 140-87843/8	400.0	447.660159	100.0	11997910.0	1.11915	Y
9	IC 140-87843/9	1000.0	1237.867289	100.0	13148739.0	1.237867	Y



## Calibration

/ Fluorene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

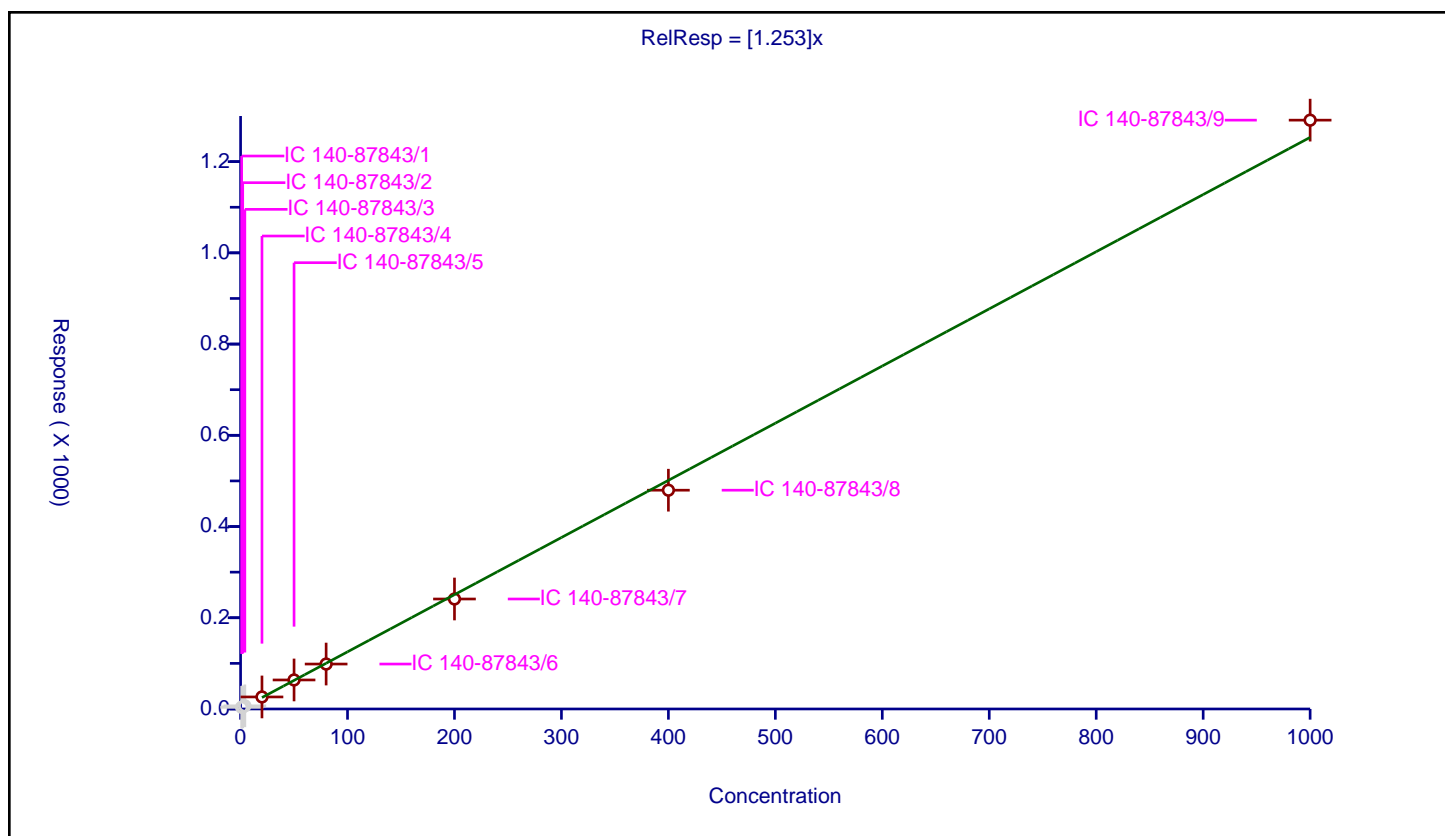
## Curve Coefficients

Intercept: 0  
Slope: 1.253

## Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	3.758561	100.0	2300375.0	3.758561	N
2	IC 140-87843/2	2.0	4.572201	100.0	2550369.0	2.286101	N
3	IC 140-87843/3	4.0	6.902788	100.0	2635457.0	1.725697	N
4	IC 140-87843/4	20.0	26.390271	100.0	3098767.0	1.319514	Y
5	IC 140-87843/5	50.0	63.615901	100.0	2645576.0	1.272318	Y
6	IC 140-87843/6	80.0	98.518293	100.0	3234715.0	1.231479	Y
7	IC 140-87843/7	200.0	241.108161	100.0	3285389.0	1.205541	Y
8	IC 140-87843/8	400.0	479.670436	100.0	3801144.0	1.199176	Y
9	IC 140-87843/9	1000.0	1290.908505	100.0	4314043.0	1.290909	Y





## Calibration

/ Indeno[1,2,3-cd]pyrene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

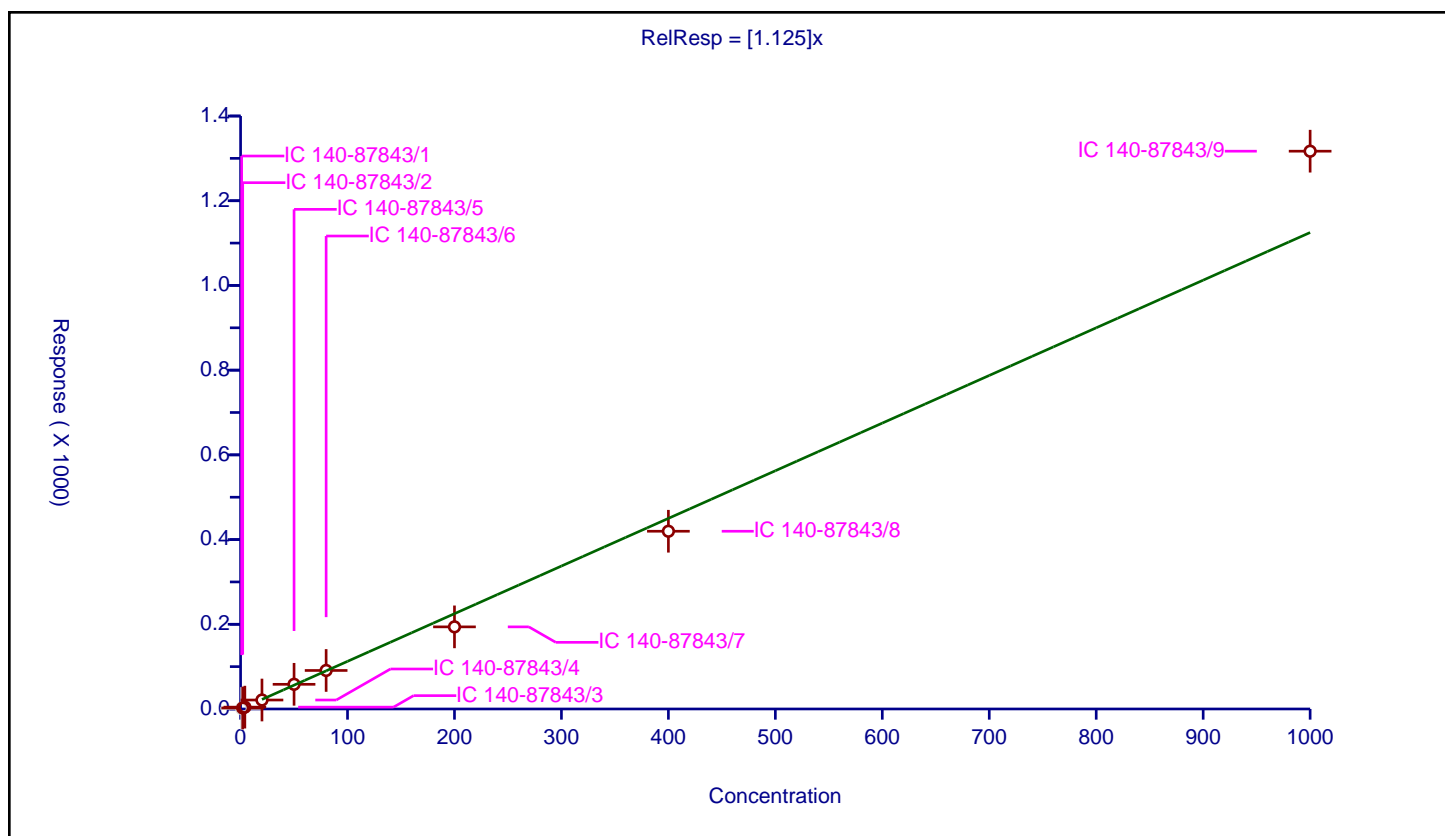
## Curve Coefficients

Intercept: 0  
Slope: 1.125

## Error Coefficients

Relative Standard Deviation: 9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.318012	100.0	4910654.0	1.318012	N
2	IC 140-87843/2	2.0	2.411491	100.0	5418391.0	1.205745	Y
3	IC 140-87843/3	4.0	4.39401	100.0	4630053.0	1.098503	Y
4	IC 140-87843/4	20.0	21.156291	100.0	5157889.0	1.057815	Y
5	IC 140-87843/5	50.0	58.243265	100.0	4835402.0	1.164865	Y
6	IC 140-87843/6	80.0	90.975877	100.0	5212706.0	1.137198	Y
7	IC 140-87843/7	200.0	193.881836	100.0	6349503.0	0.969409	Y
8	IC 140-87843/8	400.0	419.632644	100.0	7511958.0	1.049082	Y
9	IC 140-87843/9	1000.0	1316.924276	100.0	8585756.0	1.316924	Y



## Calibration

/ Naphthalene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

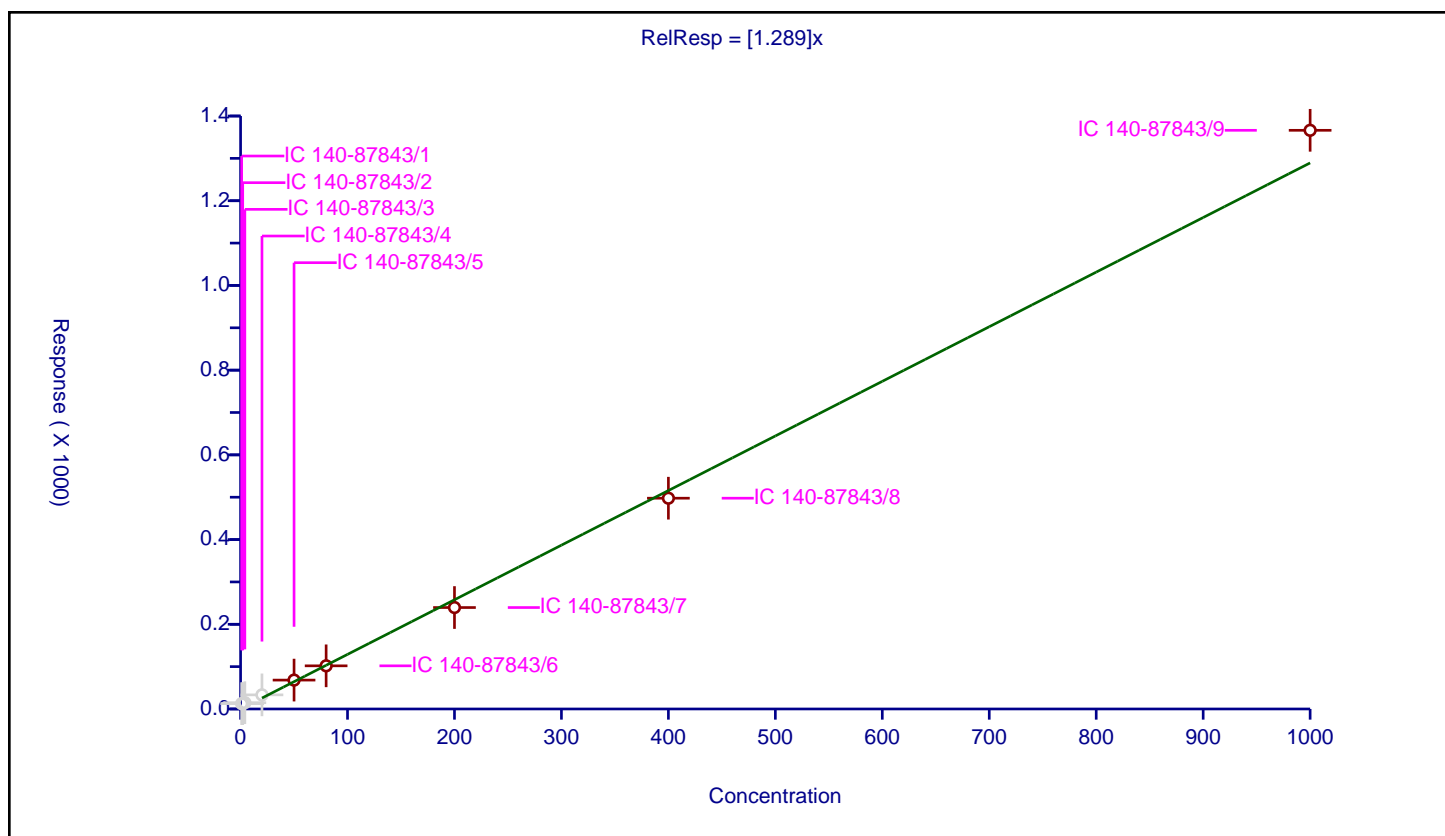
## Curve Coefficients

Intercept: 0  
Slope: 1.289

## Error Coefficients

Relative Standard Deviation: 5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	12.609299	100.0	9958539.0	12.609299	N
2	IC 140-87843/2	2.0	12.614015	100.0	10224350.0	6.307007	N
3	IC 140-87843/3	4.0	14.91186	100.0	10437430.0	3.727965	N
4	IC 140-87843/4	20.0	33.315879	100.0	11716317.0	1.665794	N
5	IC 140-87843/5	50.0	68.215465	100.0	10955076.0	1.364309	Y
6	IC 140-87843/6	80.0	101.918	100.0	10869499.0	1.273975	Y
7	IC 140-87843/7	200.0	239.530616	100.0	12167731.0	1.197653	Y
8	IC 140-87843/8	400.0	497.650715	100.0	13369772.0	1.244127	Y
9	IC 140-87843/9	1000.0	1366.234926	100.0	14774767.0	1.366235	Y



## Calibration

/ Perylene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

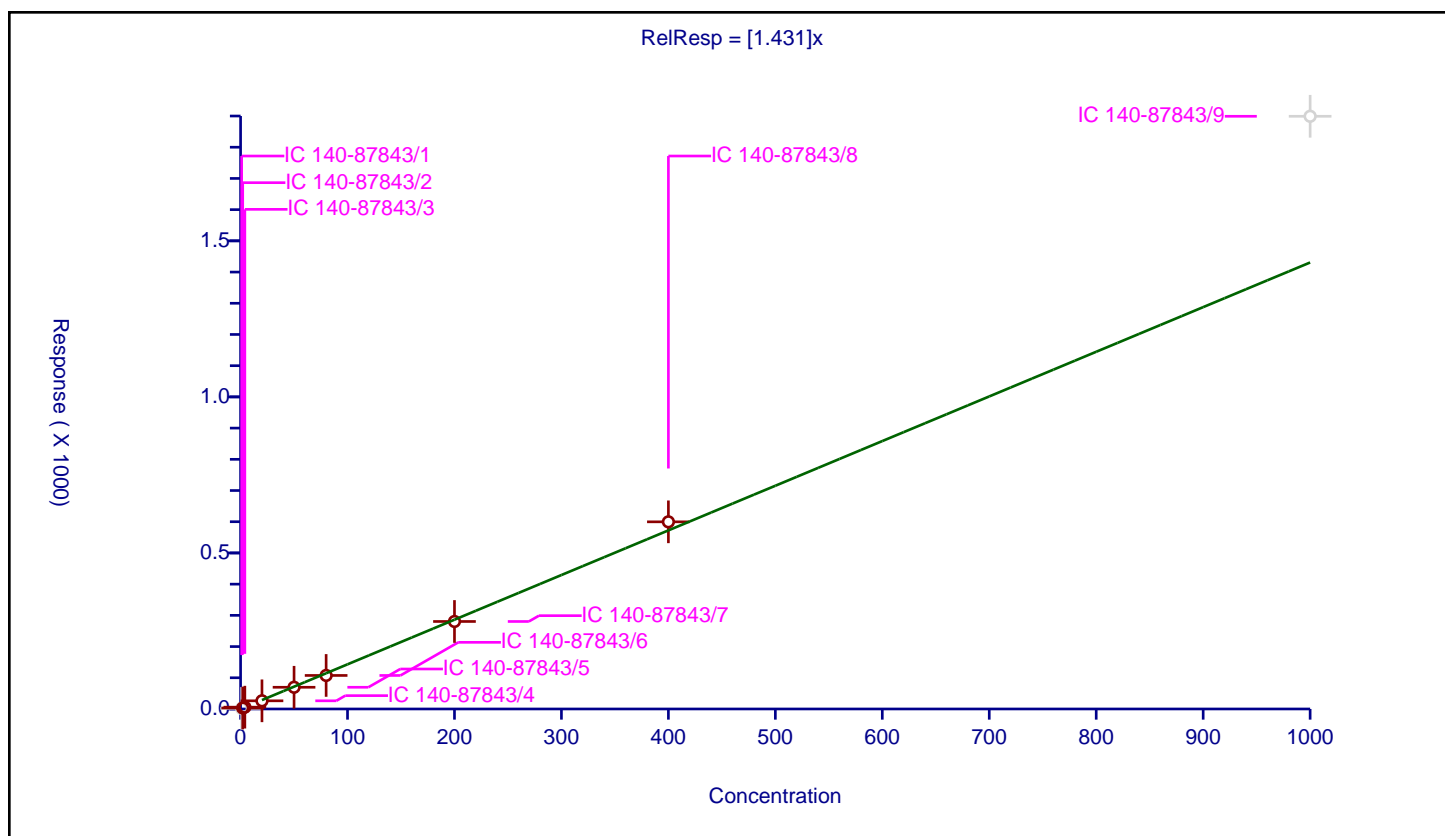
## Curve Coefficients

Intercept: 0  
Slope: 1.431

## Error Coefficients

Relative Standard Deviation: 7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.860706	100.0	5662636.0	1.860706	N
2	IC 140-87843/2	2.0	3.203678	100.0	5811383.0	1.601839	Y
3	IC 140-87843/3	4.0	5.864918	100.0	5628212.0	1.466229	Y
4	IC 140-87843/4	20.0	26.201245	100.0	6075448.0	1.310062	Y
5	IC 140-87843/5	50.0	69.618739	100.0	6306802.0	1.392375	Y
6	IC 140-87843/6	80.0	107.439095	100.0	6805855.0	1.342989	Y
7	IC 140-87843/7	200.0	280.414458	100.0	7004851.0	1.402072	Y
8	IC 140-87843/8	400.0	599.65743	100.0	8439141.0	1.499144	Y
9	IC 140-87843/9	1000.0	1899.103982	100.0	9436646.0	1.899104	N



## Calibration

/ Phenanthrene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

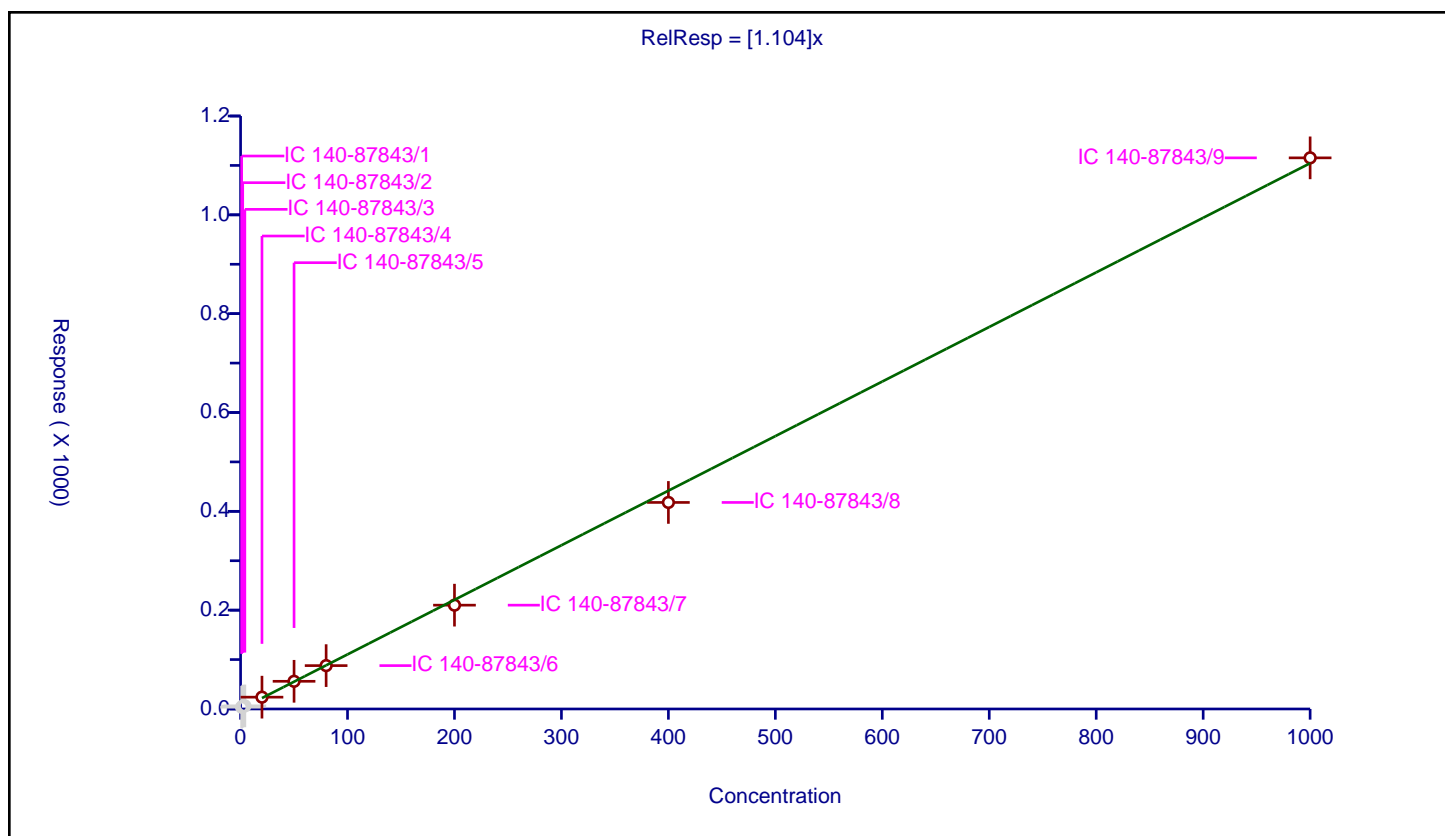
## Curve Coefficients

Intercept: 0  
Slope: 1.104

## Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	3.633317	100.0	3481612.0	3.633317	N
2	IC 140-87843/2	2.0	5.665578	100.0	3753474.0	2.832789	N
3	IC 140-87843/3	4.0	6.21547	100.0	3834191.0	1.553868	N
4	IC 140-87843/4	20.0	23.9578	100.0	4480403.0	1.19789	Y
5	IC 140-87843/5	50.0	56.029235	100.0	4005566.0	1.120585	Y
6	IC 140-87843/6	80.0	87.776848	100.0	4194540.0	1.097211	Y
7	IC 140-87843/7	200.0	210.128129	100.0	4953590.0	1.050641	Y
8	IC 140-87843/8	400.0	417.99271	100.0	5572957.0	1.044982	Y
9	IC 140-87843/9	1000.0	1115.315735	100.0	6524734.0	1.115316	Y



## Calibration

/ Pyrene

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

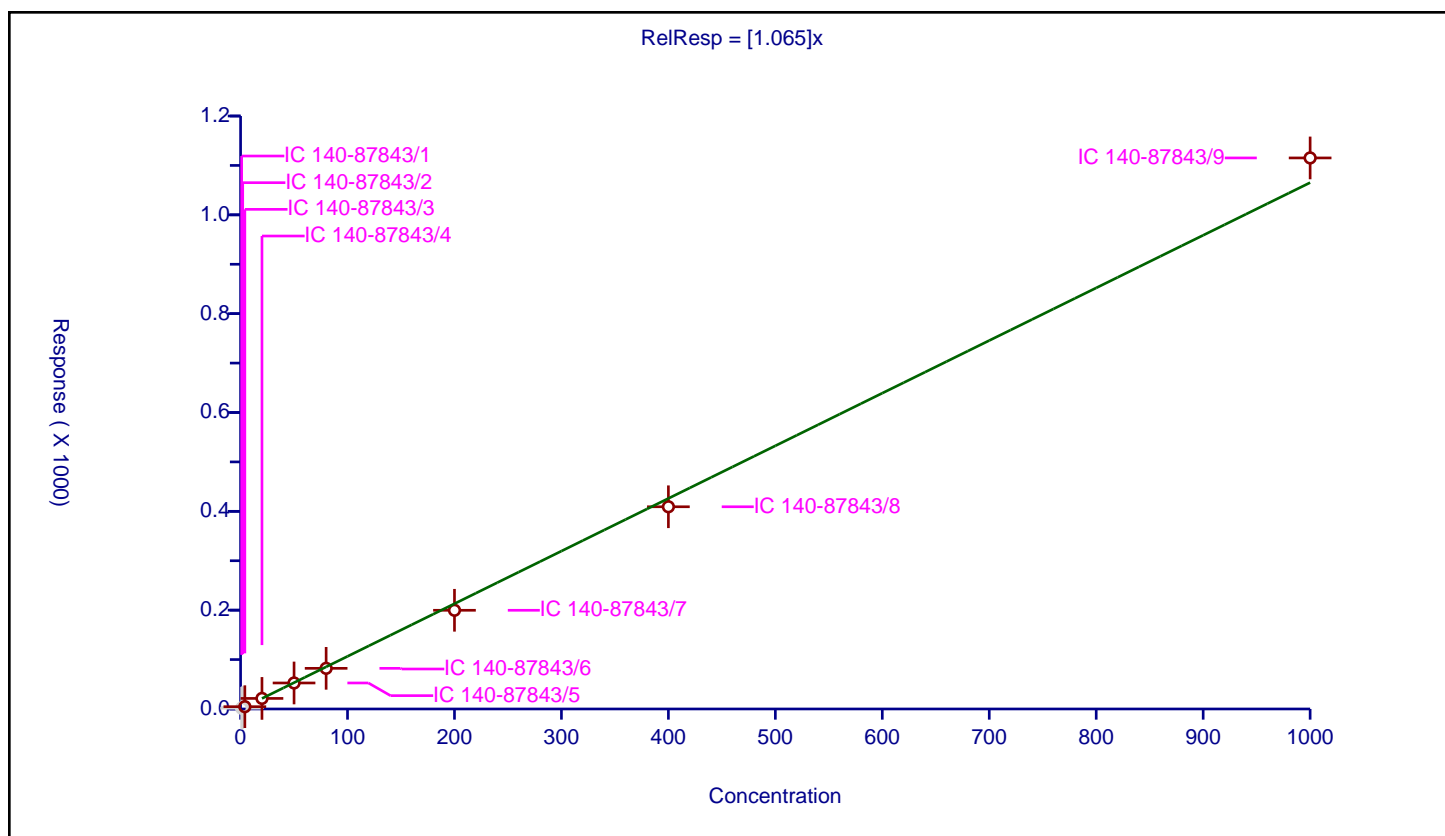
## Curve Coefficients

Intercept: 0  
Slope: 1.065

## Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87843/1	1.0	1.612584	100.0	8492459.0	1.612584	N
2	IC 140-87843/2	2.0	3.054751	100.0	8994056.0	1.527375	N
3	IC 140-87843/3	4.0	4.677314	100.0	9131545.0	1.169328	Y
4	IC 140-87843/4	20.0	21.380309	100.0	10292274.0	1.069015	Y
5	IC 140-87843/5	50.0	52.636984	100.0	9271369.0	1.05274	Y
6	IC 140-87843/6	80.0	82.26308	100.0	10295818.0	1.028289	Y
7	IC 140-87843/7	200.0	199.756681	100.0	11042272.0	0.998783	Y
8	IC 140-87843/8	400.0	409.246038	100.0	13356986.0	1.023115	Y
9	IC 140-87843/9	1000.0	1115.144428	100.0	15391681.0	1.115144	Y



FORM VI  
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID (1): CCV 140-89271/1 Instrument ID (1): D3PAH

GC Column (1): Rxi-5SilMS 25 ID: 0.25 (mm) Date Analyzed (1): 07/28/2024 13:04

ANALYTE	RT	RESOLUTION (%)
Phenanthrene	25.00	1
Anthracene	25.33	1
Benzo[b]fluoranthene	54.54	11
Benzo[k]fluoranthene	54.66	10

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Injection Date: 28-Jul-2024 13:04:00 Instrument ID: D3PAH  
Lims ID: CCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: Restek-5Sil MS 25um ( 0.25 mm)  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL

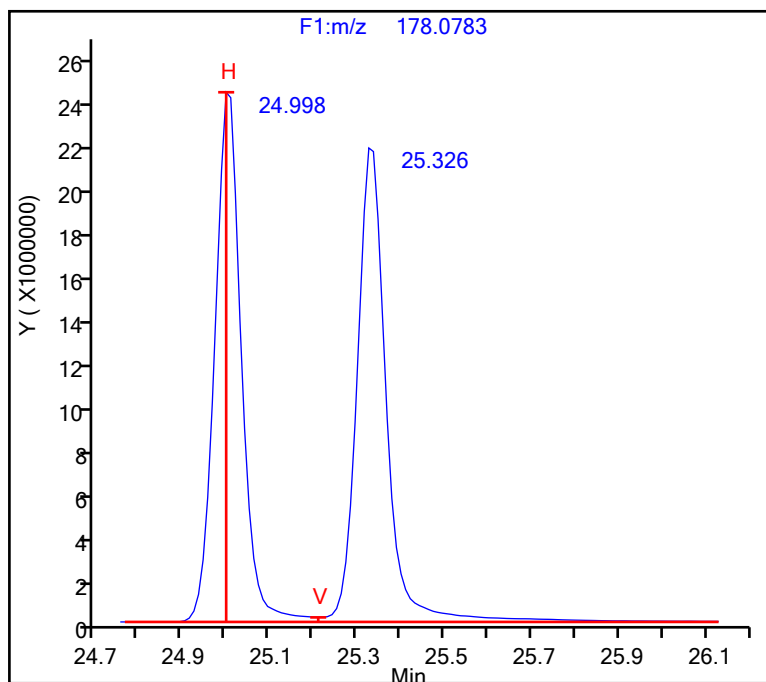
Phenanthrene

Isotopic Dilution Dioxin Method

$$\%R = (V / H) * 100$$

V (Valley Height) = 208306  
H (Peak Height) = 24270188

%R = 1 <= 50  
Passed



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Injection Date: 28-Jul-2024 13:04:00 Instrument ID: D3PAH  
Lims ID: CCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: Restek-5Sil MS 25um ( 0.25 mm)  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAH ICAL

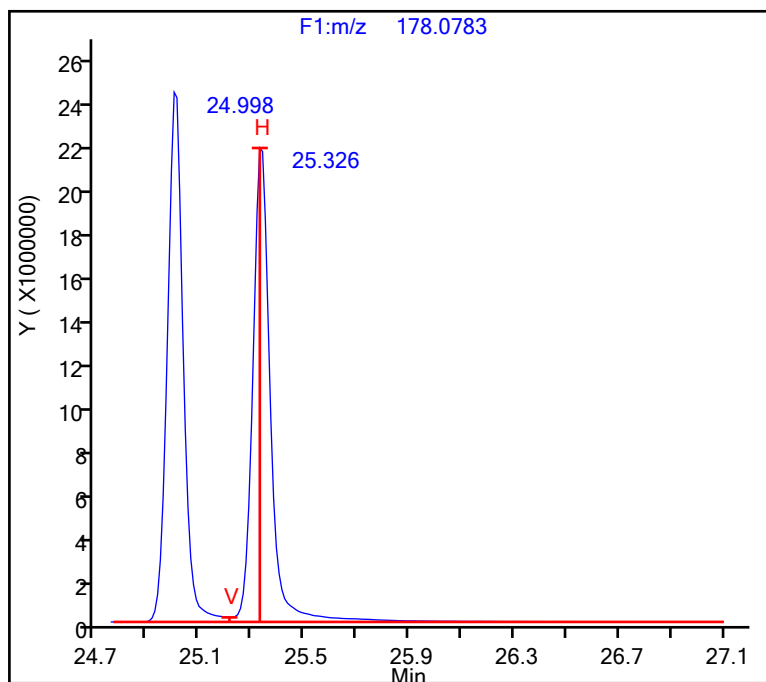
Anthracene

Isotopic Dilution Dioxin Method

$$\%R = (V / H) * 100$$

V (Valley Height) = 208306  
H (Peak Height) = 21716020

%R = 1 <= 50  
Passed





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Injection Date: 28-Jul-2024 13:04:00 Instrument ID: D3PAH  
Lims ID: CCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: Restek-5Sil MS 25um ( 0.25 mm)  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAL ICAL

Benzo[b]fluoranthene

Isotopic Dilution Dioxin Method

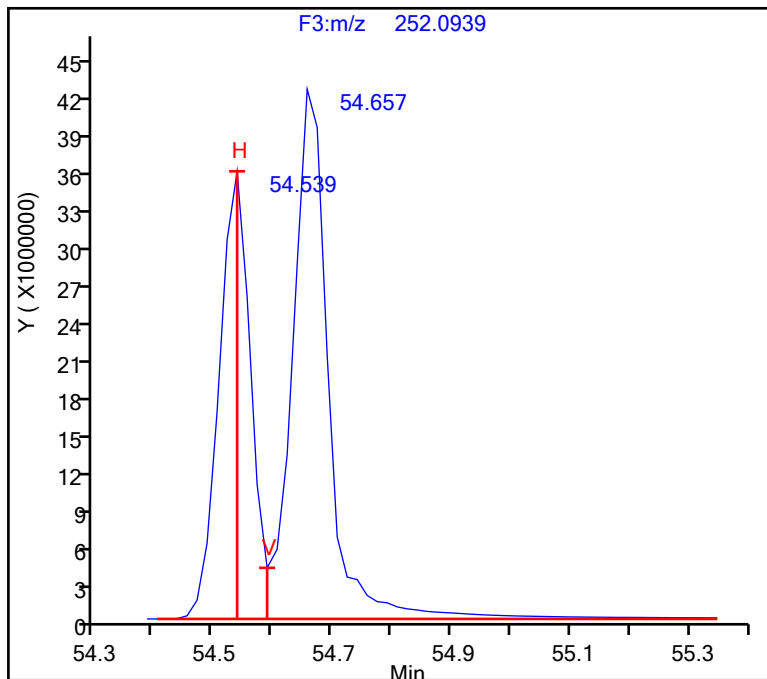
$$\%R = (V / H) * 100$$

V (Valley Height) = 4108680

H (Peak Height) = 35988528

$$\%R = 11 \leq 60$$

Passed



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Injection Date: 28-Jul-2024 13:04:00 Instrument ID: D3PAH  
Lims ID: CCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: Restek-5Sil MS 25um ( 0.25 mm)  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL

Benzo[k]fluoranthene

Isotopic Dilution Dioxin Method

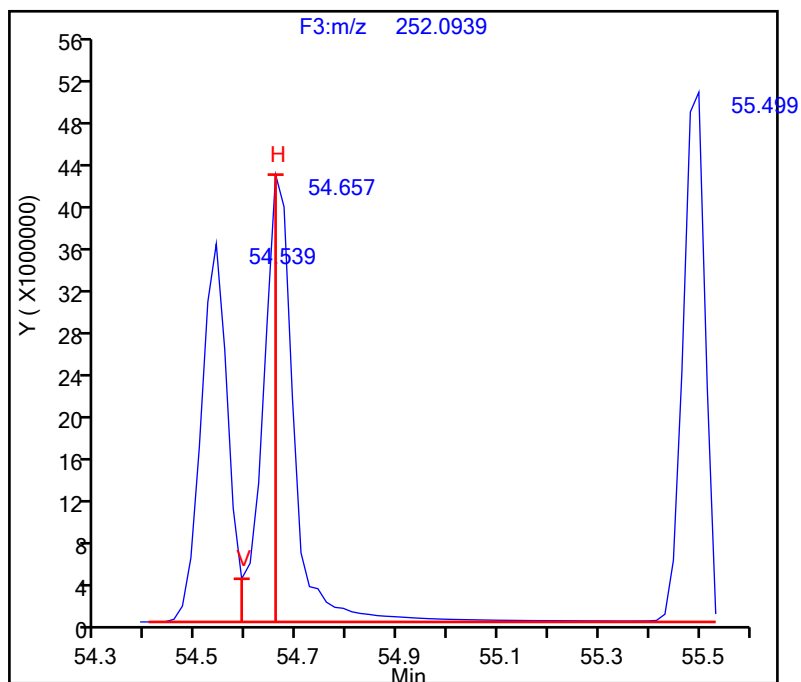
$$\%R = (V / H) * 100$$

V (Valley Height) = 4108680

H (Peak Height) = 42582064

$$\%R = 10 \leq 60$$

Passed



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Injection Date: 28-Jul-2024 13:04:00 Instrument ID: D3PAH  
Lims ID: CCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: Restek-5Sil MS 25um ( 0.25 mm)  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAH ICAL

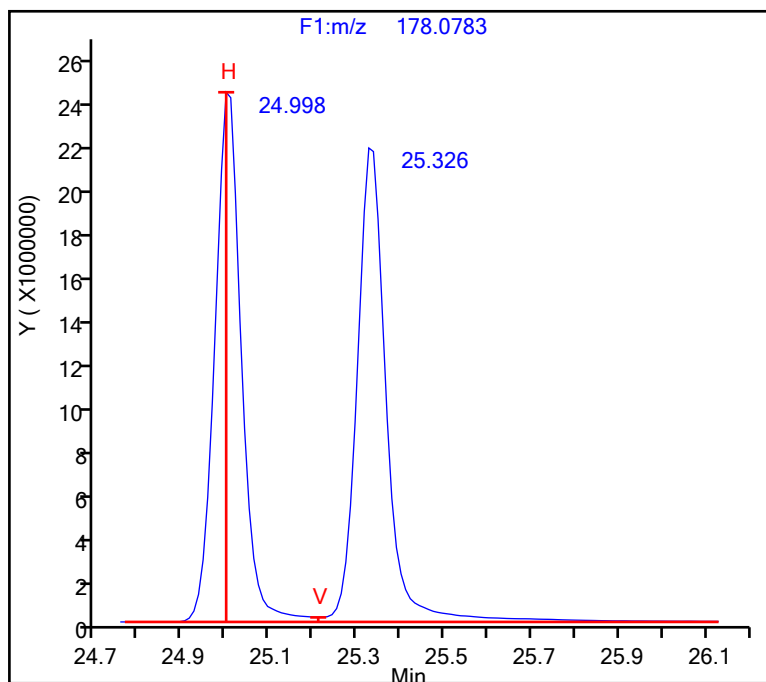
Phenanthrene

Isotopic Dilution Dioxin Method

$$\%R = (V / H) * 100$$

V (Valley Height) = 208306  
H (Peak Height) = 24270188

%R = 1 <= 50  
Passed



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Injection Date: 28-Jul-2024 13:04:00 Instrument ID: D3PAH  
Lims ID: CCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: Restek-5Sil MS 25um ( 0.25 mm)  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL

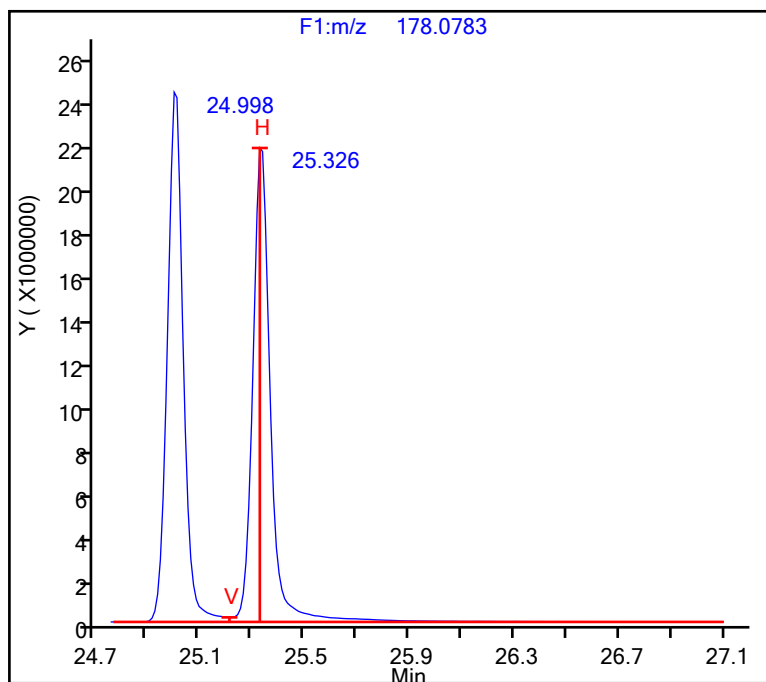
Anthracene

Isotopic Dilution Dioxin Method

$$\%R = (V / H) * 100$$

V (Valley Height) = 208306  
H (Peak Height) = 21716020

$\%R = 1 \leq 50$   
Passed



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Injection Date: 28-Jul-2024 13:04:00 Instrument ID: D3PAH  
Lims ID: CCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: Restek-5Sil MS 25um ( 0.25 mm)  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAL ICAL

Benzo[b]fluoranthene

Isotopic Dilution Dioxin Method

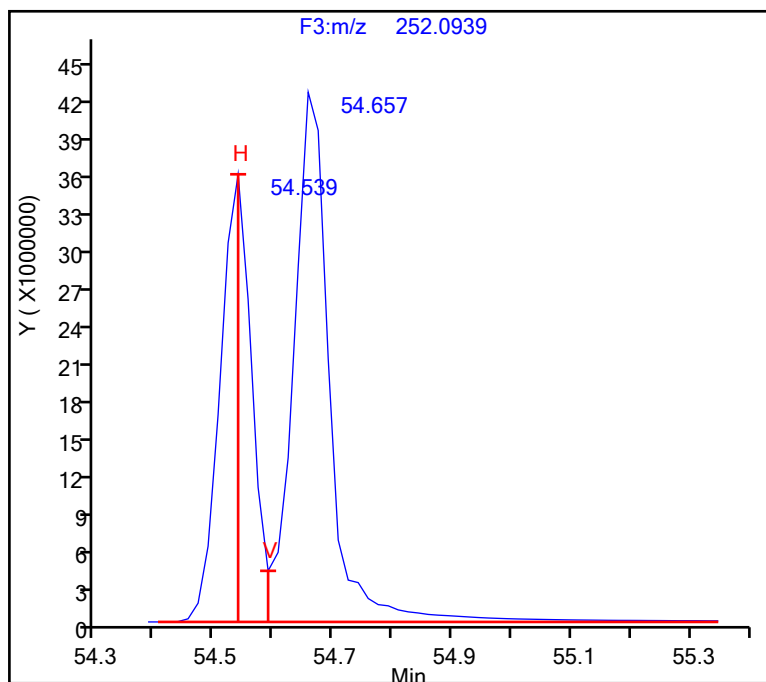
$$\%R = (V / H) * 100$$

V (Valley Height) = 4108680

H (Peak Height) = 35988528

$$\%R = 11 \leq 60$$

Passed



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Injection Date: 28-Jul-2024 13:04:00 Instrument ID: D3PAH  
Lims ID: CCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: Restek-5Sil MS 25um ( 0.25 mm)  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL

Benzo[k]fluoranthene

Isotopic Dilution Dioxin Method

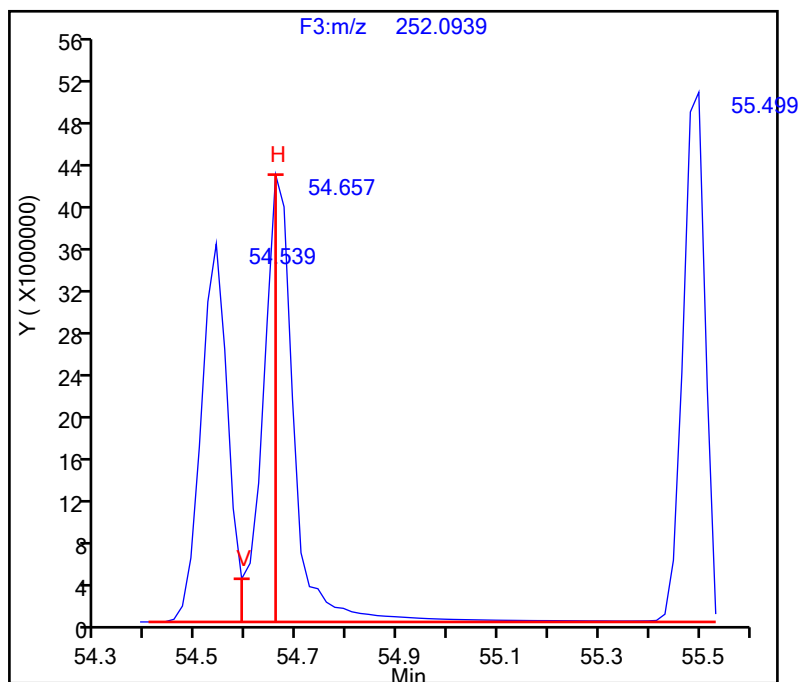
$$\%R = (V / H) * 100$$

V (Valley Height) = 4108680

H (Peak Height) = 42582064

$$\%R = 10 \leq 60$$

Passed



FORM VII  
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 140-87843/10 Calibration Date: 06/20/2024 02:46  
 Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34  
 GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09  
 Lab File ID: d3240619icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C6-Naphthalene	Ave	3.375	3.132		92.8	100	-7.2	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.509		94.1	100	-5.9	30.0
13C6-Acenaphthylene	Ave	1.652	1.696		103	100	2.6	30.0
13C6-Acenaphthene	Ave	0.9792	0.9779		99.9	100	-0.1	30.0
13C6-Fluorene	Ave	0.8898	0.7920		89.0	100	-11.0	30.0
13C6-Phenanthrene	Ave	0.5724	0.6236		109	100	8.9	30.0
13C6-Anthracene	Ave	0.4523	0.4905		108	100	8.4	30.0
13C6-Fluoranthrene	Ave	1.199	1.318		110	100	9.9	30.0
13C3-Pyrene	Ave	1.351	1.457		108	100	7.9	30.0
13C6-Benzo (a) anthracene	Ave	1.519	1.656		109	100	9.0	30.0
13C6-Chrysene	Ave	1.629	1.770		109	100	8.7	30.0
13C6-Benzo (b) fluoranthene	Ave	1.462	1.616		111	100	10.5	30.0
13C6-Benzo (k) fluoranthene	Ave	1.751	1.936		111	100	10.6	30.0
13C4-Benzo (e) pyrene	Ave	1.637	1.838		112	100	12.3	30.0
13C4-Benzo (a) pyrene	Ave	1.551	1.689		109	100	8.9	30.0
Perylene-d12	Ave	1.192	1.234		104	100	3.5	30.0
13C6-Indeno (1,2,3-cd) pyrene	Ave	1.022	1.167		114	100	14.2	30.0
13C6-Dibenz (a,h) anthracene	Ave	1.055	1.350		128	100	27.9	30.0
13C12-Benzo (ghi) perylene	Ave	1.275	1.497		117	100	17.4	30.0

FORM VII  
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 140-87843/10 Calibration Date: 06/20/2024 02:46  
 Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34  
 GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09  
 Lab File ID: d3240619icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
Naphthalene	AveID	1.289	1.282		497	500	99	70-130
2-Methylnaphthalene	AveID	1.279	1.258		492	500	98	70-130
Acenaphthylene	AveID	2.366	2.441		516	500	103	70-130
Acenaphthene	AveID	1.270	1.246		491	500	98	70-130
Fluorene	AveID	1.253	1.254		500	500	100	70-130
Phenanthrene	AveID	1.104	1.110		503	500	101	70-130
Anthracene	AveID	1.359	1.325		488	500	98	70-130
Fluoranthene	AveID	1.151	1.174		510	500	102	70-130
Pyrene	AveID	1.065	1.115		524	500	105	70-130
Benzo[a]anthracene	AveID	0.9739	0.9740		500	500	100	70-130
Chrysene	AveID	0.9815	1.015		517	500	103	70-130
Benzo[b]fluoranthene	AveID	1.125	1.167		519	500	104	70-130
Benzo[k]fluoranthene	AveID	1.127	1.146		508	500	102	70-130
Benzo[e]pyrene	AveID	1.001	1.252		625	500	125	70-130
Benzo[a]pyrene	AveID	1.113	1.208		543	500	109	70-130
Perylene	AveID	1.431	1.620		566	500	113	70-130
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.094		486	500	97	70-130
Dibenz(a,h)anthracene	AveID	1.131	1.121		495	500	99	70-130
Benzo[g,h,i]perylene	AveID	1.284	1.262		491	500	98	70-130



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d  
Lims ID: ICV  
Client ID:  
Sample Type: ICV  
Inject. Date: 20-Jun-2024 02:46:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-010  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist:  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 25-Jun-2024 14:12:41 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1632

First Level Reviewer: TT6I

Date: 25-Jun-2024 14:12:41

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:41	13477442		3.3746	92.8	92.8	0.005803	0.005803	92.80	a
Naphthalene	11:41	86402026		1.2893	497.3	497.3	0.0680	0.0680	99.45	a
D 13C6-2-Methylnaphthalene	13:55	6493524		1.6031	94.1	94.1	0.001416	0.001416	94.12	
2-Methylnaphthalene	13:55	40858535		1.2786	492.1	492.1	0.0277	0.0277	98.43	
D 13C6-Acenaphthylene	16:47	7297545		1.6520	102.6	102.6	0.002237	0.002237	103	
Acenaphthylene	16:47	51372833		2.3661	515.9	515.9	0.0307	0.0307	103	
* Acenaphthene-d10	17:21	4303576		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:28	4208528		0.9792	99.9	99.9	0.002649	0.002649	99.87	
Acenaphthene	17:28	26212060		1.2697	490.5	490.5	0.0440	0.0440	98.11	
Fluorene	19:45	21363714		1.2532	500.2	500.2	0.0507	0.0507	100	
D 13C6-Fluorene	19:45	3408512		0.8898	89.0	89.0	0.001603	0.001603	89.01	
D 13C6-Phenanthrene	25:08	5503772		0.5724	108.9	108.9	0.006954	0.006954	109	
Phenanthrene	25:08	30546294		1.1044	502.5	502.5	0.0480	0.0480	101	
D 13C6-Anthracene	25:28	4329635		0.4523	108.4	108.4	0.008801	0.008801	108	
Anthracene	25:29	28688367		1.3586	487.7	487.7	0.0511	0.0511	97.54	
D 13C6-Fluoranthrene	33:53	11635330		1.1994	109.9	109.9	0.0283	0.0283	110	
Fluoranthene	33:54	68280213		1.1513	509.7	509.7	0.0239	0.0239	102	
* Pyrene-d10	35:26	8826302		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:34	12863803		1.3512	107.9	107.9	0.0150	0.0150	108	
Pyrene	35:35	71732321		1.0652	523.5	523.5	0.0246	0.0246	105	
D 13C6-Benzo(a)anthracene	46:07	11144764		1.5189	109.0	109.0	0.0119	0.0119	109	
Benzo[a]anthracene	46:08	54276958		0.9739	500.1	500.1	0.0462	0.0462	100	
D 13C6-Chrysene	46:24	11912007		1.6287	108.7	108.7	0.0111	0.0111	109	
Chrysene	46:24	60434818		0.9815	516.9	516.9	0.0455	0.0455	103	
D 13C6-Benzo(b)fluoranthene	54:40	10876736		1.4621	110.5	110.5	0.001204	0.001204	111	
Benzo[b]fluoranthene	54:40	63447136		1.1249	518.6	518.6	0.007804	0.007804	104	
D 13C6-Benzo(k)fluoranthene	54:47	13027765		1.7507	110.6	110.6	0.001005	0.001005	111	
Benzo[k]fluoranthene	54:47	74650027		1.1271	508.4	508.4	0.006593	0.006593	102	
* Benzo(e)pyrene-d12	55:31	6729891		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:36	77451657		1.0013	625.2	625.2	0.006018	0.006018	125	
D 13C4-Benzo(e)pyrene	55:36	12371926		1.6368	112.3	112.3	0.009057	0.009057	112	
Benzo[a]pyrene	55:44	68663102		1.1130	542.7	542.7	0.005983	0.005983	109	
D 13C4-Benzo(a)pyrene	55:44	11367582		1.5508	108.9	108.9	0.009560	0.009560	109	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D Perylene-d12	55:54	8303002		1.1917	103.5	103.5	0.0118	0.0118	104	
Perylene	55:58	67252708		1.4307	566.2	566.2	0.006120	0.006120	113	E
D 13C6-Indeno(1,2,3-cd)pyrene	58:02	7856573		1.0218	114.2	114.2	0.0102	0.0102	114	
Indeno[1,2,3-cd]pyrene	58:03	42975857		1.1249	486.3	486.3	0.0191	0.0191	97.25	
D 13C6-Dibenz(a,h)anthracene	58:07	9084543		1.0553	127.9	127.9	0.005211	0.005211	128	
Dibenz(a,h)anthracene	58:07	50916184		1.1314	495.4	495.4	0.009530	0.009530	99.08	
D 13C12-Benzo(ghi)perylene	58:30	10075910		1.2749	117.4	117.4	0.002070	0.002070	117	
Benzo[g,h,i]perylene	58:32	63565210		1.2838	491.4	491.4	0.0150	0.0150	98.28	

### QC Flag Legend

#### Processing Flags

E - Exceeded Maximum Amount

#### Review Flags

a - User Assigned ID

### Reagents:

61HRPAHICVW\_00003

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d  
Lims ID: ICV  
Client ID:  
Sample Type: ICV  
Inject. Date: 20-Jun-2024 02:46:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033168-010  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist:  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 25-Jun-2024 14:12:41 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1632

First Level Reviewer: TT6I

Date: 25-Jun-2024 14:12:41

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											a
134.0828	11:41	11:33	8	0.673	13477442	4456210	121	302	36828		a
Naphthalene											a
128.0626	11:41	11:34	7	1.000	86402026	29321886	1563	3907	18760		a
13C6-2-Methylnaphthalene											
148.0984	13:55	13:52	2	0.802	6493524	3094767	14	35	221055		
2-Methylnaphthalene											
142.0783	13:55	13:53	2	1.000	40858535	18807631	438	1095	42940		
13C6-Acenaphthylene											
158.0828	16:47	16:45	1	0.967	7297545	2605022	23	57	113262		E
Acenaphthylene											
152.0626	16:47	16:45	1	1.000	51372833	19549495	422	1055	46326		
Acenaphthene-d10											
164.1404	17:21	17:20	1		4303576	1542160	3	7	514053		
13C6-Acenaphthene											
160.0984	17:28	17:27	1	1.007	4208528	1451106	16	40	90694		
Acenaphthene											
154.0783	17:28	17:27	1	1.001	26212060	9398913	324	810	29009		
Fluorene											
166.0783	19:45	19:45	1	1.001	21363714	6510687	261	652	24945		
13C6-Fluorene											
172.0984	19:45	19:45	0	1.138	3408512	1026745	9	22	114083		
13C6-Phenanthrene											
184.0984	25:08	25:08	0	0.709	5503772	1348647	27	67	49950		E
Phenanthrene											
178.0783	25:08	25:08	0	1.000	30546294	7653415	286	715	26760		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Anthracene											
184.0984	25:28	25:28	0	0.719	4329635	1030424	27	67	38164		E
Anthracene											
178.0783	25:29	25:28	0	1.000	28688367	6777672	286	715	23698		
13C6-Fluoranthrene											
208.0984	33:53	33:54	-1	0.956	11635330	2307627	229	572	10077		E
Fluoranthene											
202.0783	33:54	33:54	0	1.000	68280213	14184641	254	635	55845		
Pyrene-d10											
212.1404	35:26	35:27	-1		8826302	1683039	63	157	26715		
13C3-Pyrene											
205.0883	35:34	35:35	-1	1.004	12863803	2422989	136	340	17816		E
Pyrene											
202.0783	35:35	35:35	0	1.000	71732321	14442359	254	635	56860		
13C6-Benzo(a)anthracene											
234.1140	46:07	46:07	-1	1.301	11144764	1990149	164	410	12135		E
Benzo[a]anthracene											
228.0939	46:08	46:07	0	1.000	54276958	10164420	358	895	28392		
13C6-Chrysene											
234.1140	46:24	46:24	0	1.309	11912007	2004525	164	410	12223		E
Chrysene											
228.0939	46:24	46:25	-1	1.000	60434818	10772676	358	895	30091		
13C6-Benzo(b)fluoranthene											
258.1140	54:40	54:40	0	0.985	10876736	2927555	16	40	182972		E
Benzo[b]fluoranthene											
252.0939	54:40	54:40	0	1.000	63447136	18656368	103	257	181130		
13C6-Benzo(k)fluoranthene											
258.1140	54:47	54:47	0	0.987	13027765	3458659	16	40	216166		E
Benzo[k]fluoranthene											
252.0939	54:47	54:47	0	1.000	74650027	20444016	103	257	198486		
Benzo(e)pyrene-d12											
264.1692	55:31	55:30	0		6729891	2273085	128	320	17758		
Benzo[e]pyrene											
252.0939	55:36	55:35	0	1.000	77451657	27919087	103	257	271059		
13C4-Benzo(e)pyrene											
256.1073	55:36	55:35	0	1.002	12371926	4265039	135	337	31593		E
Benzo[a]pyrene											
252.0939	55:44	55:44	0	1.000	68663102	23912192	103	257	232157		
13C4-Benzo(a)pyrene											
256.1073	55:44	55:44	0	1.004	11367582	3859166	135	337	28586		E
Perylene-d12											
264.1692	55:54	55:54	0	1.007	8303002	2935404	128	320	22933		E
Perylene											
252.0939	55:58	55:58	0	1.001	67252708	23209487	103	257	225335		E
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	58:02	58:02	0	1.046	7856573	2415385	95	237	25425		E

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Indeno[1,2,3-cd]pyrene											
276.0939	58:03	58:03	0	1.000	42975857	14664868	208	520	70504		
13C6-Dibenz(a,h)anthracene											
284.1296	58:07	58:07	0	1.047	9084543	2430000	50	125	48600		E
Dibenz(a,h)anthracene											
278.1096	58:07	58:07	0	1.000	50916184	14059570	105	262	133901		
13C12-Benzo(ghi)perylene											
288.1342	58:30	58:30	0	1.054	10075910	2706985	24	60	112791		E
Benzo[g,h,i]perylene											
276.0939	58:32	58:31	0	1.000	63565210	19420580	208	520	93368		

### QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

a - User Assigned ID

### Reagents:

61HRPAHICVW\_00003

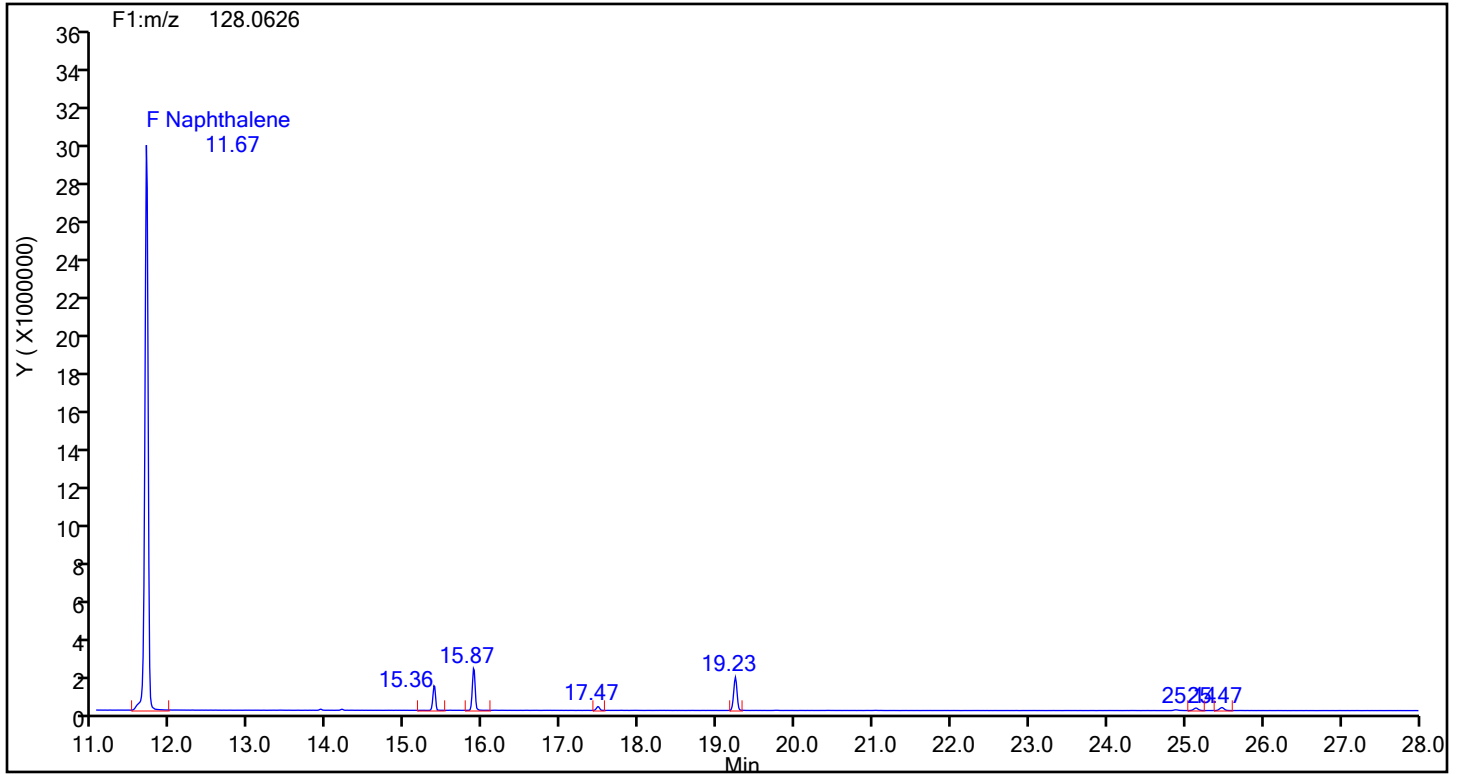
Amount Added: 20.00

Units: uL

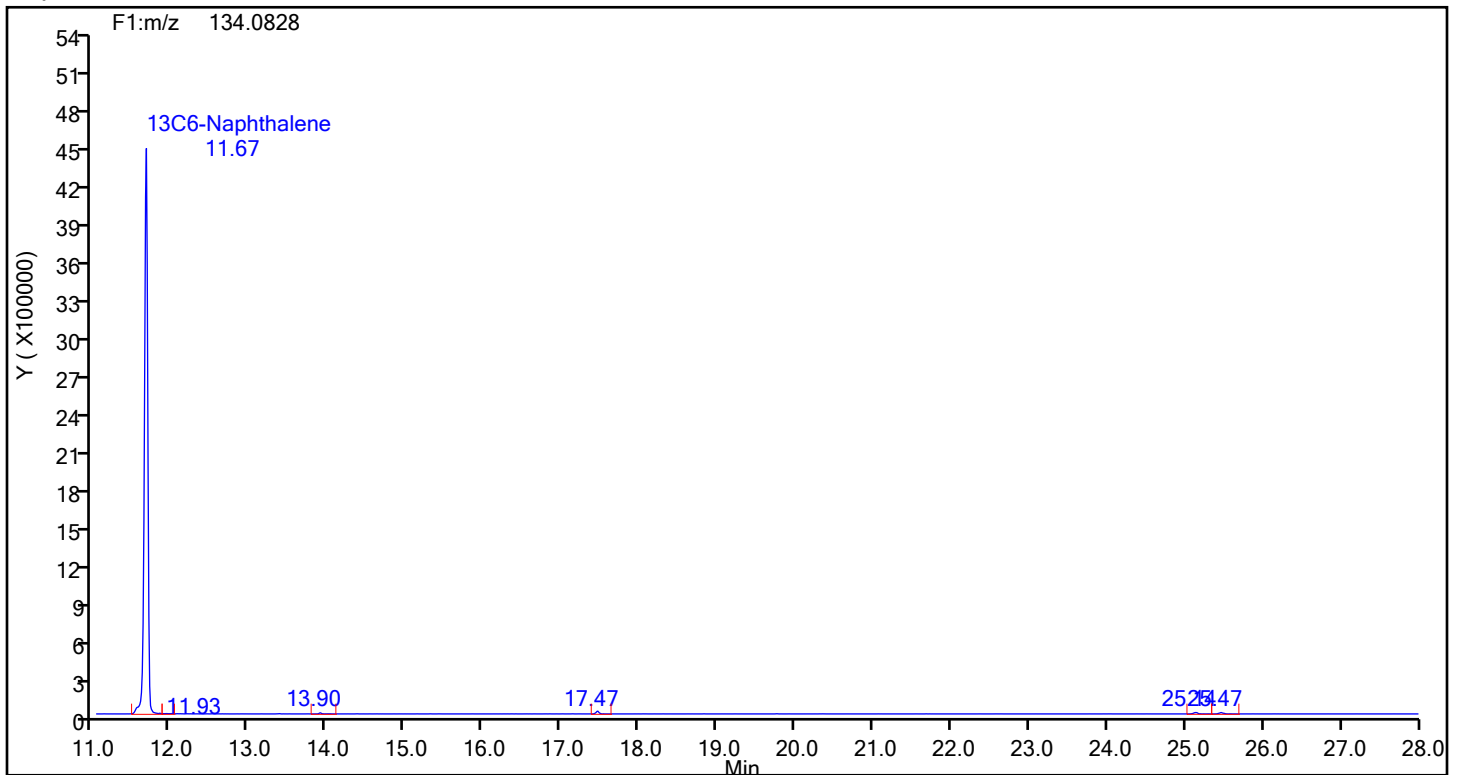
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d  
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards



## Eurofins Knoxville

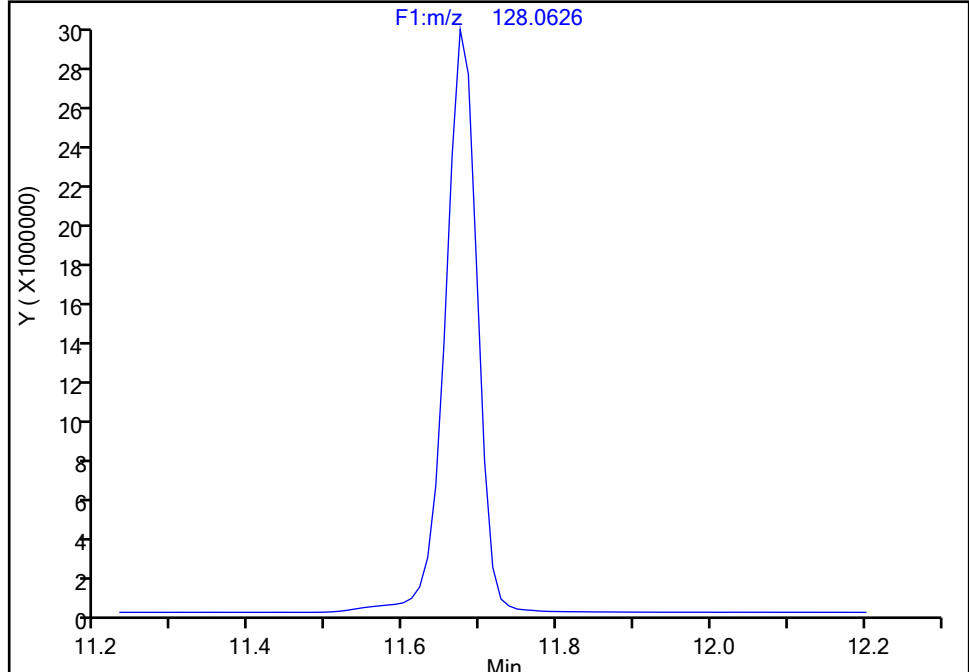
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d  
Injection Date: 20-Jun-2024 02:46:00 Instrument ID: D3PAH  
Lims ID: ICV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**Naphthalene, CAS: 91-20-3**

Signal: 1

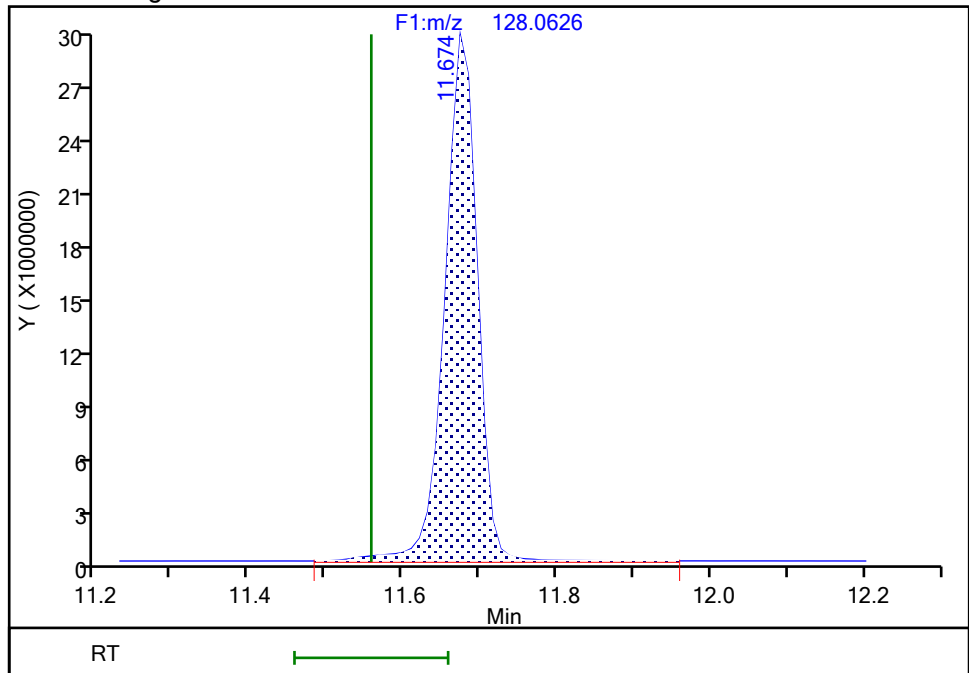
Not Detected  
Expected RT: 11.56

## Processing Integration Results



RT: 11.67  
Area: 86402026  
Amount: 497.2514  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:48:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

## Eurofins Knoxville

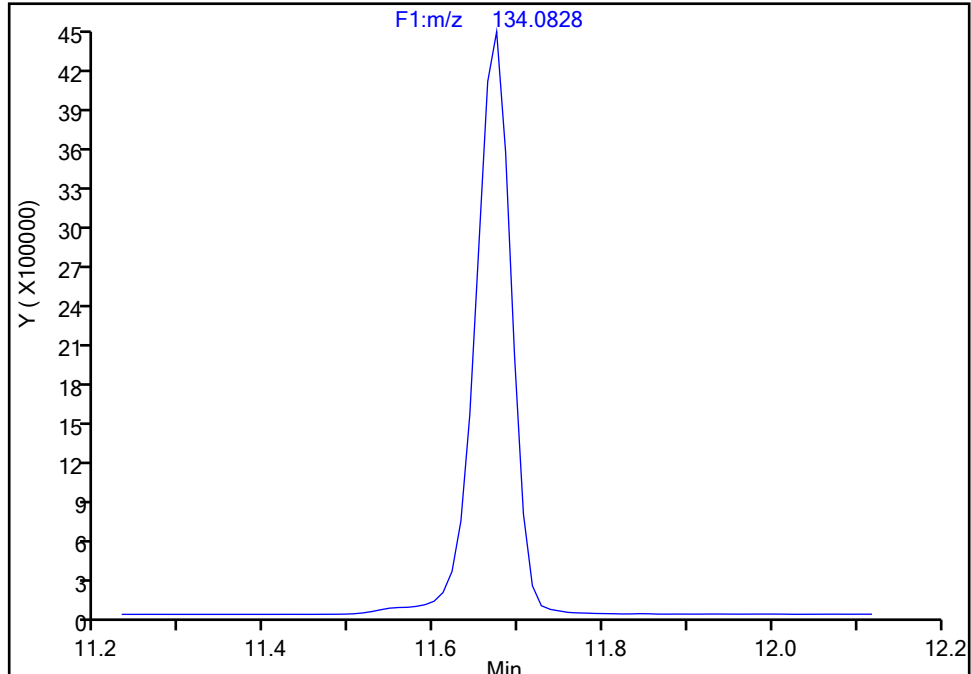
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d  
Injection Date: 20-Jun-2024 02:46:00 Instrument ID: D3PAH  
Lims ID: ICV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**13C6-Naphthalene, CAS: STL02217**

Signal: 1

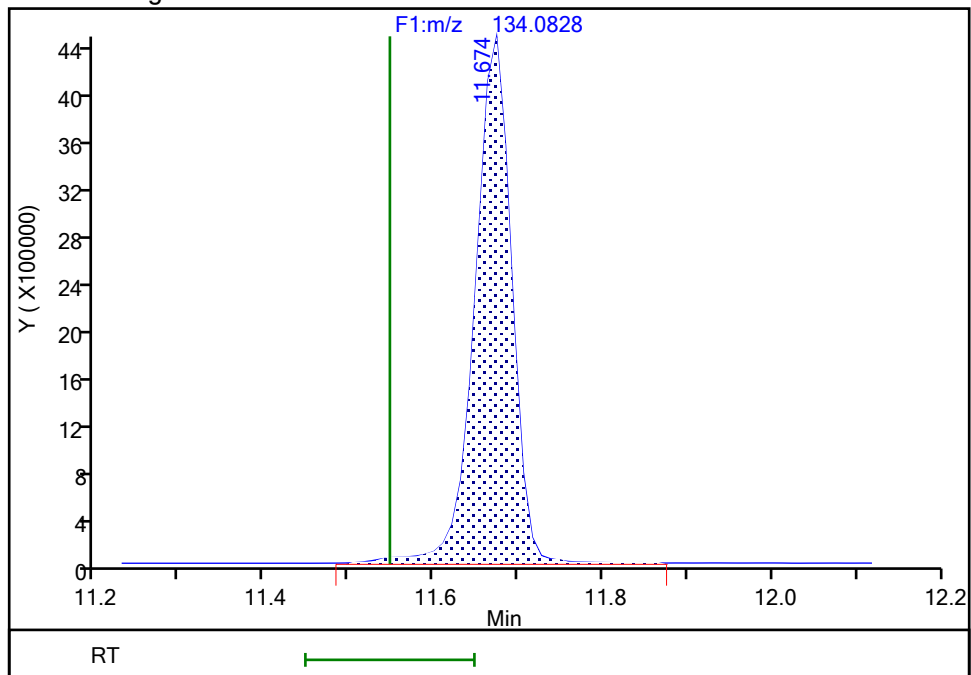
Not Detected  
Expected RT: 11.55

## Processing Integration Results



RT: 11.67  
Area: 13477442  
Amount: 92.802548  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:48:39 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

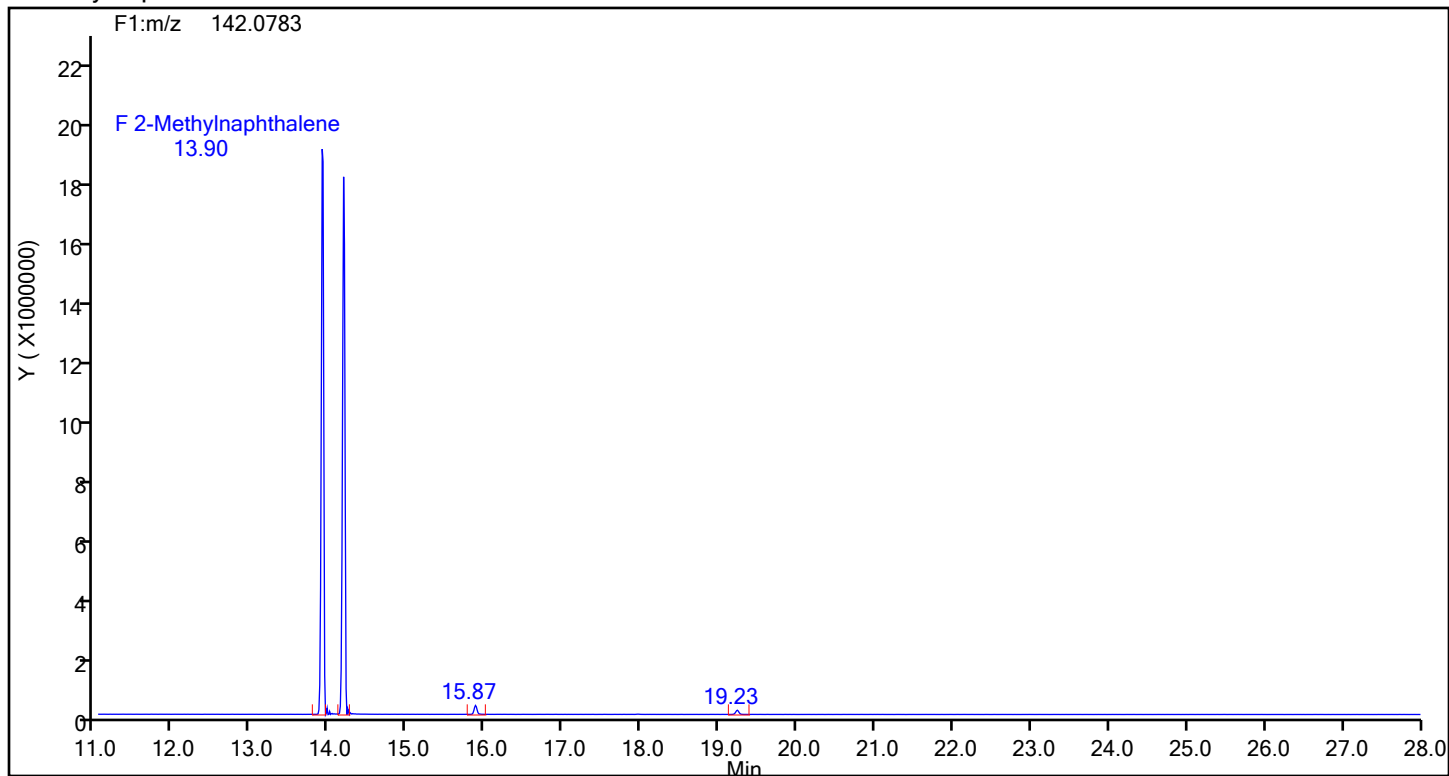
Audit Reason: Incomplete Integration



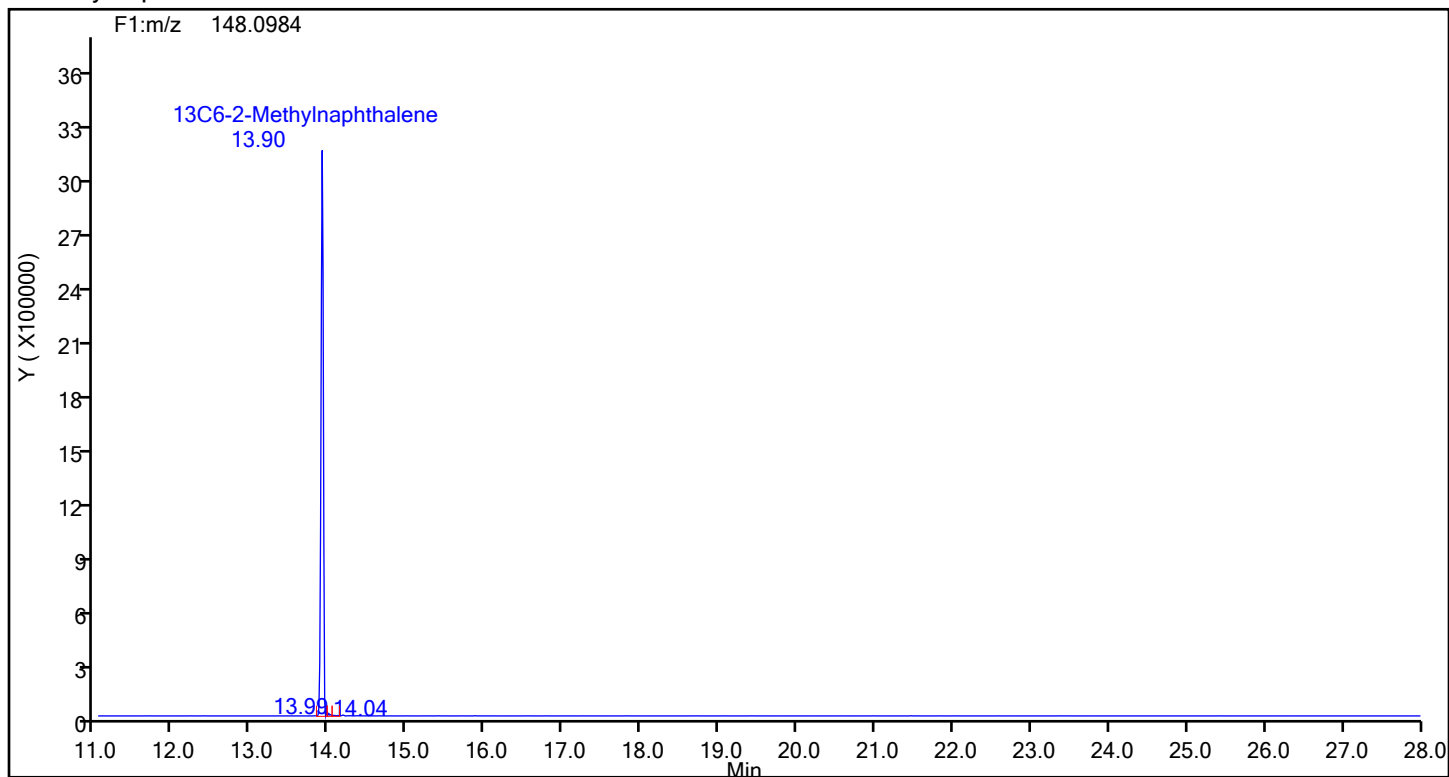
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



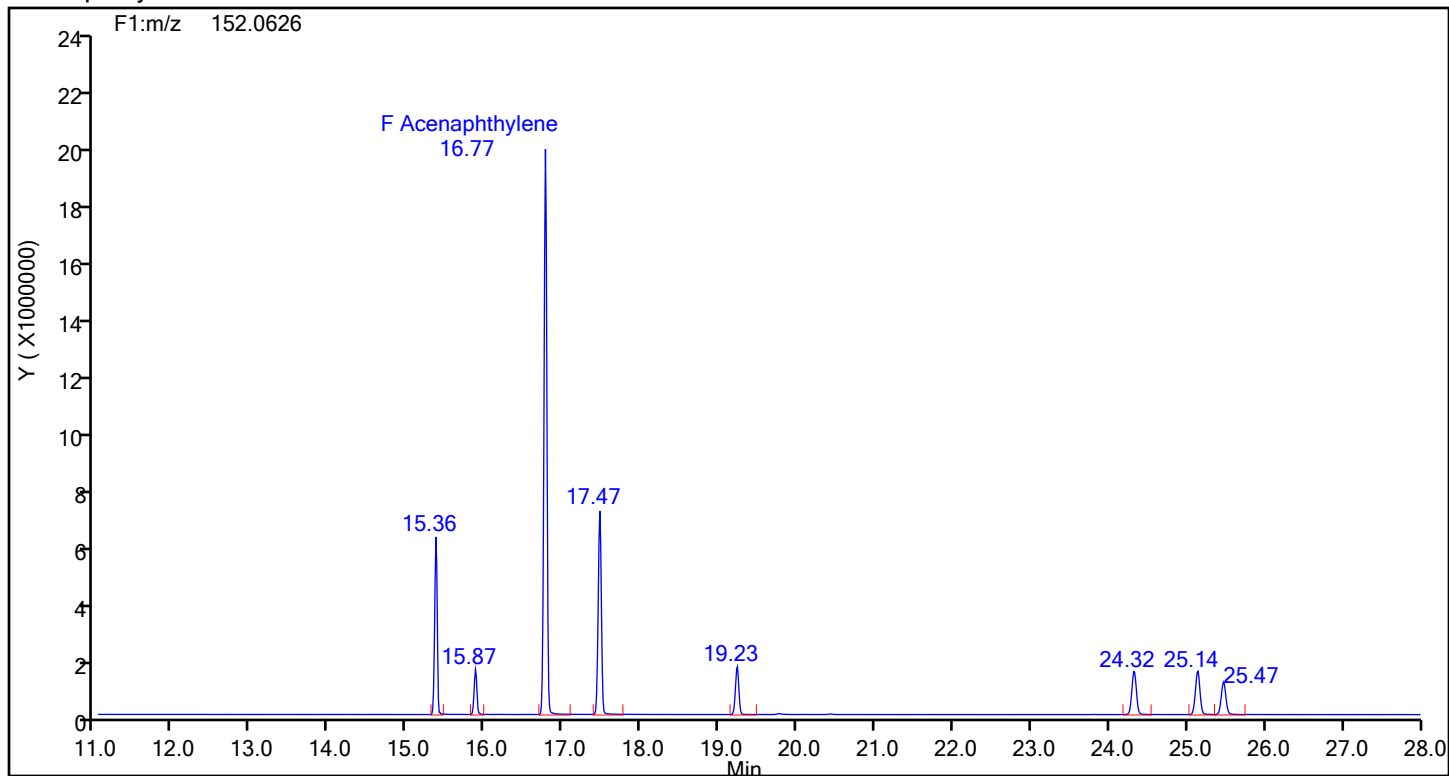
## 2-Methylnaphthalene Standards



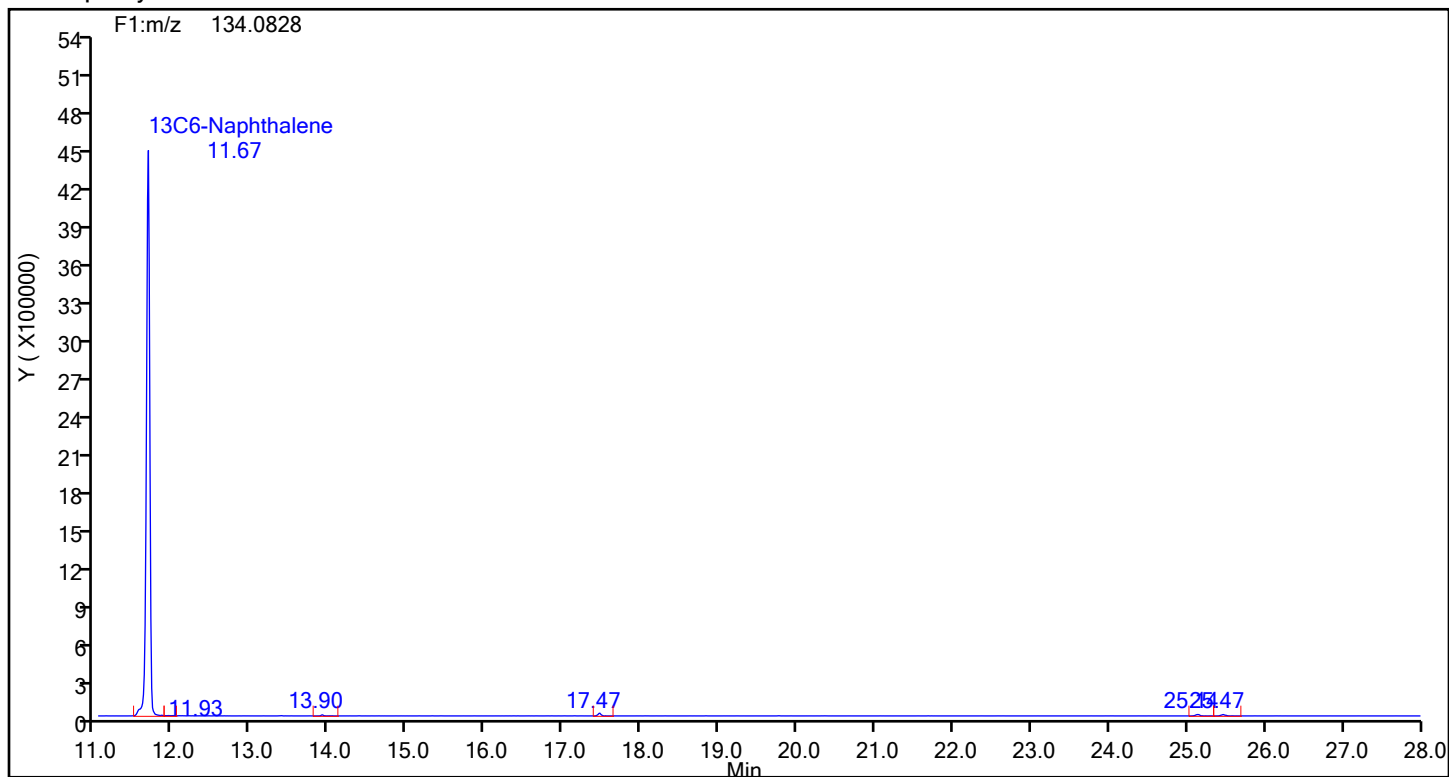
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



## Acenaphthylene Standards



## Eurofins Knoxville

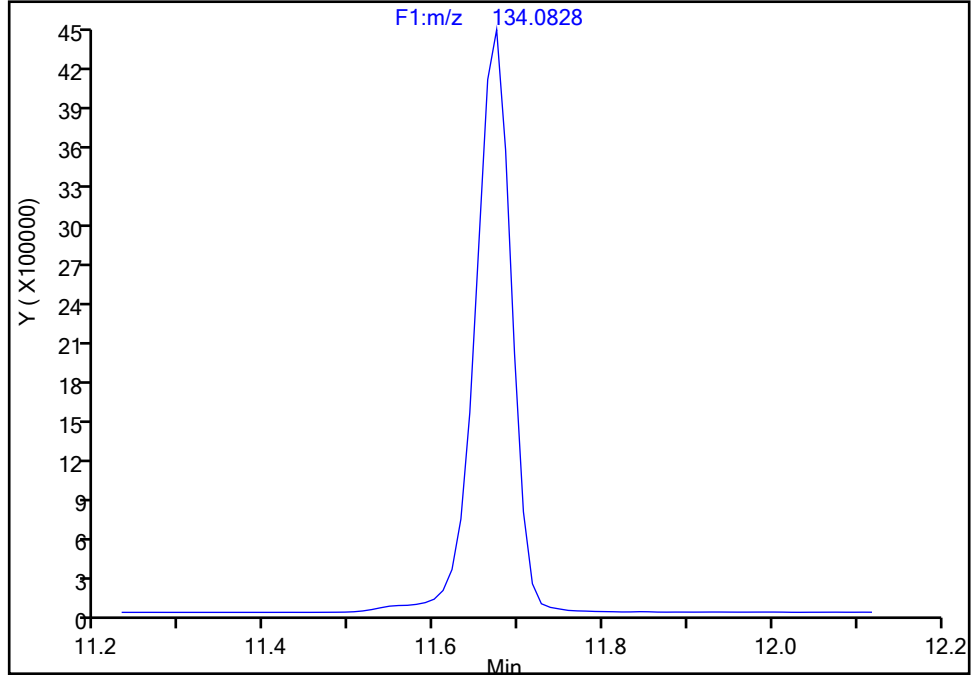
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Lims ID: ICV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**13C6-Naphthalene, CAS: STL02217**

Signal: 1

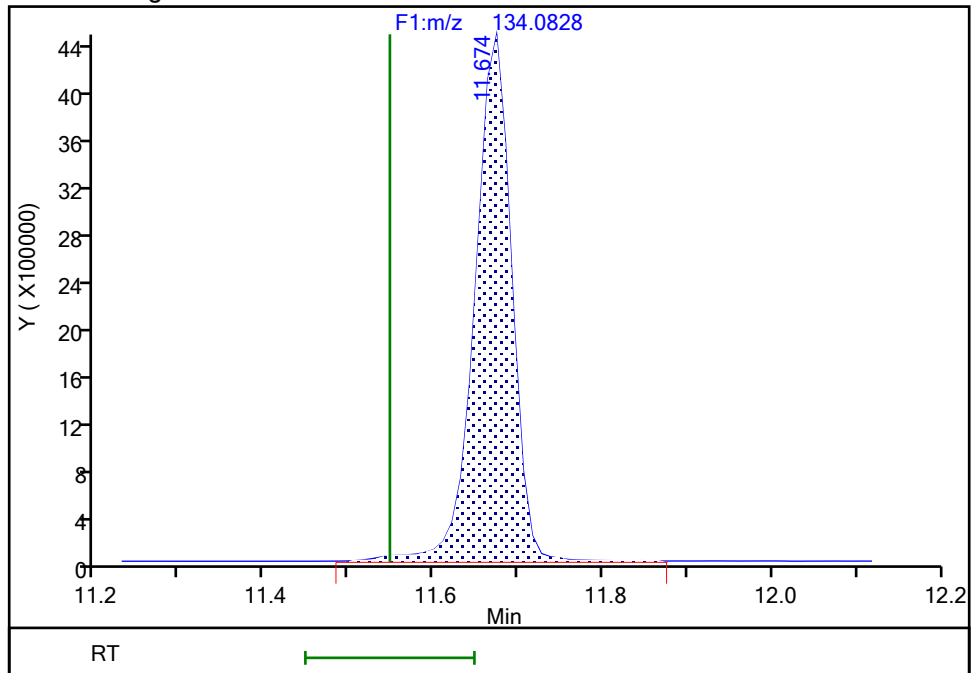
Not Detected  
Expected RT: 11.55

## Processing Integration Results



RT: 11.67  
Area: 13477442  
Amount: 92.802548  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: F9EE, 20-Jun-2024 09:48:39 -04:00:00 (UTC)

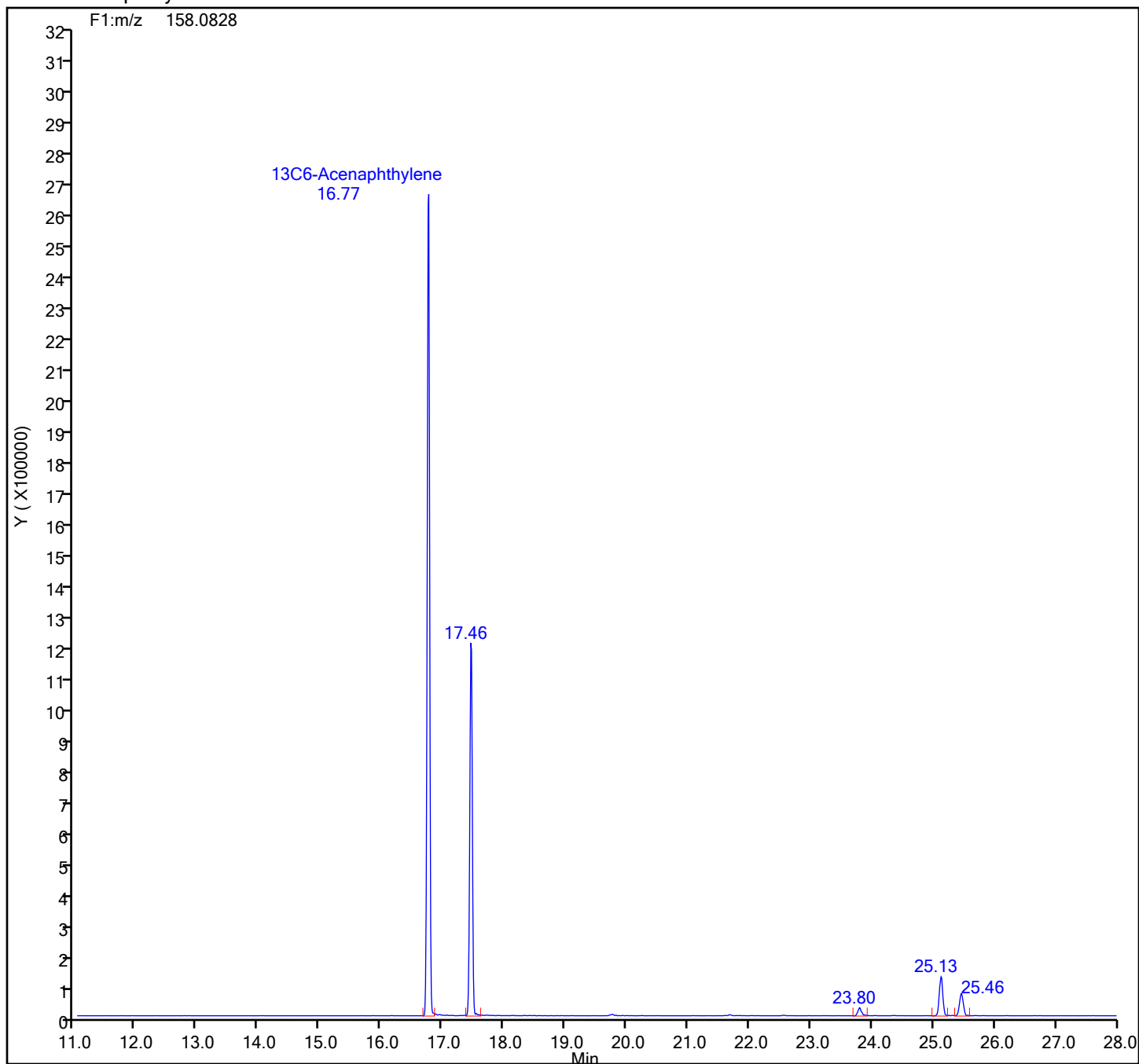
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

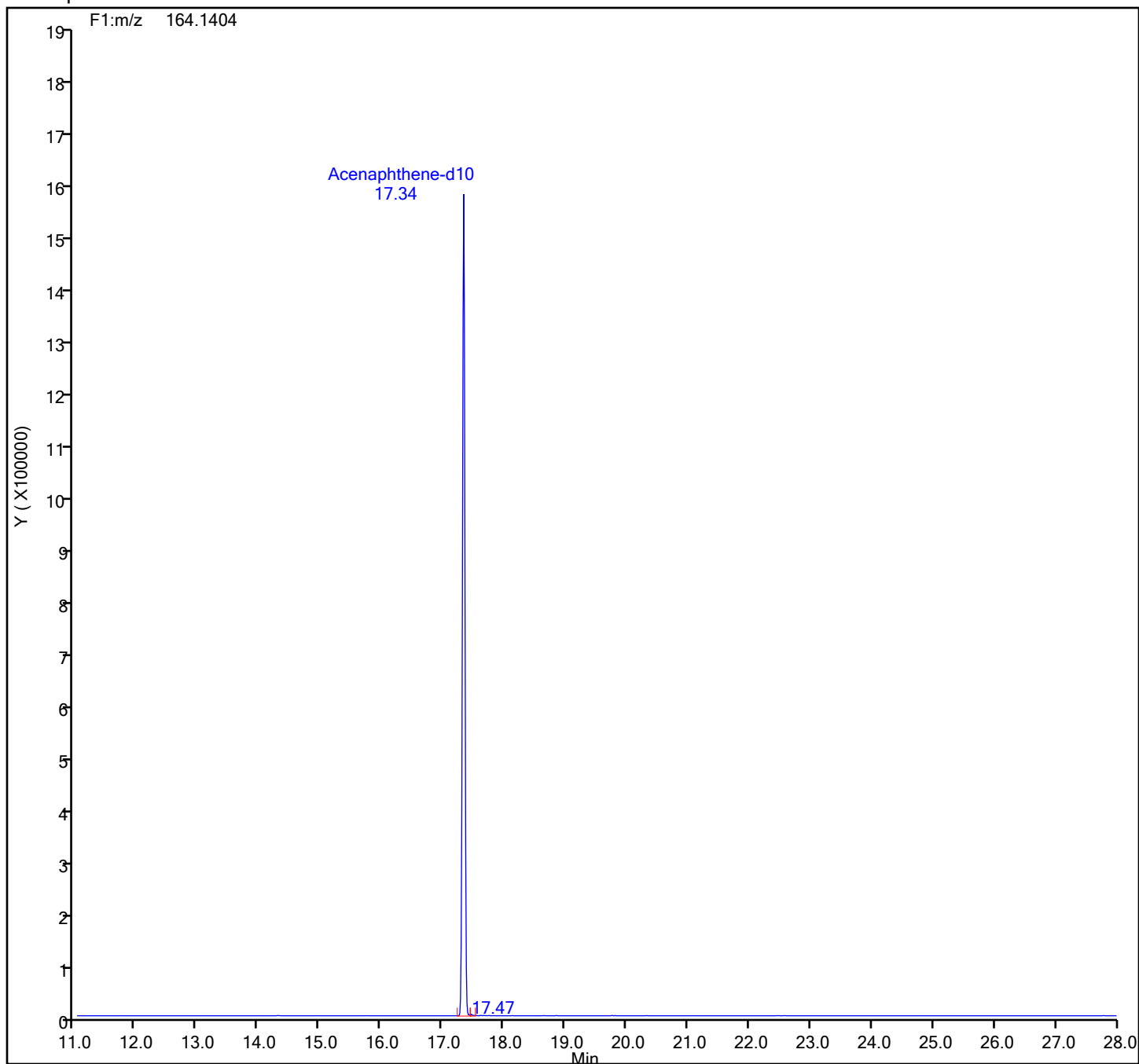
## 13C6-Acenaphthylene Standards



## Eurofins Knoxville

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Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

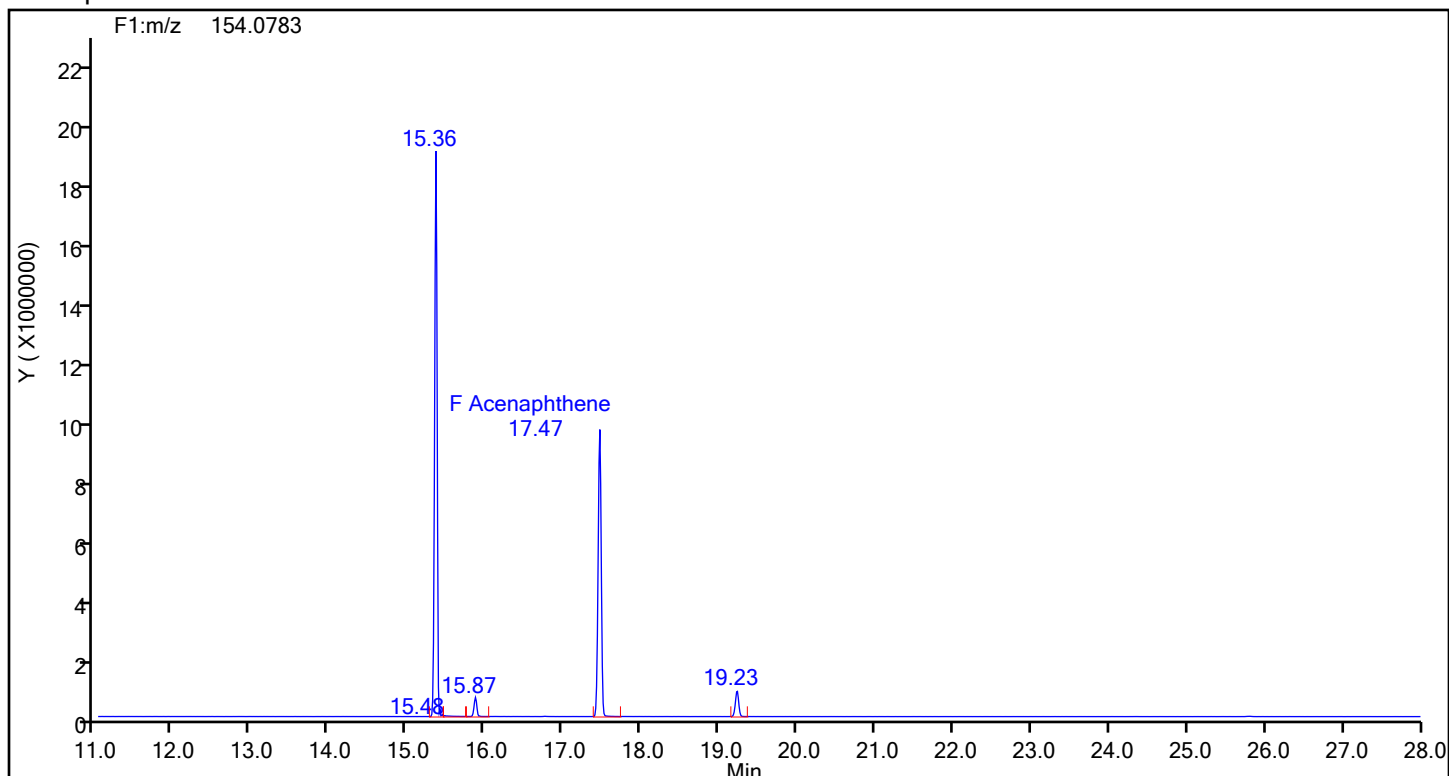
## Acenaphthene-d10 Standards



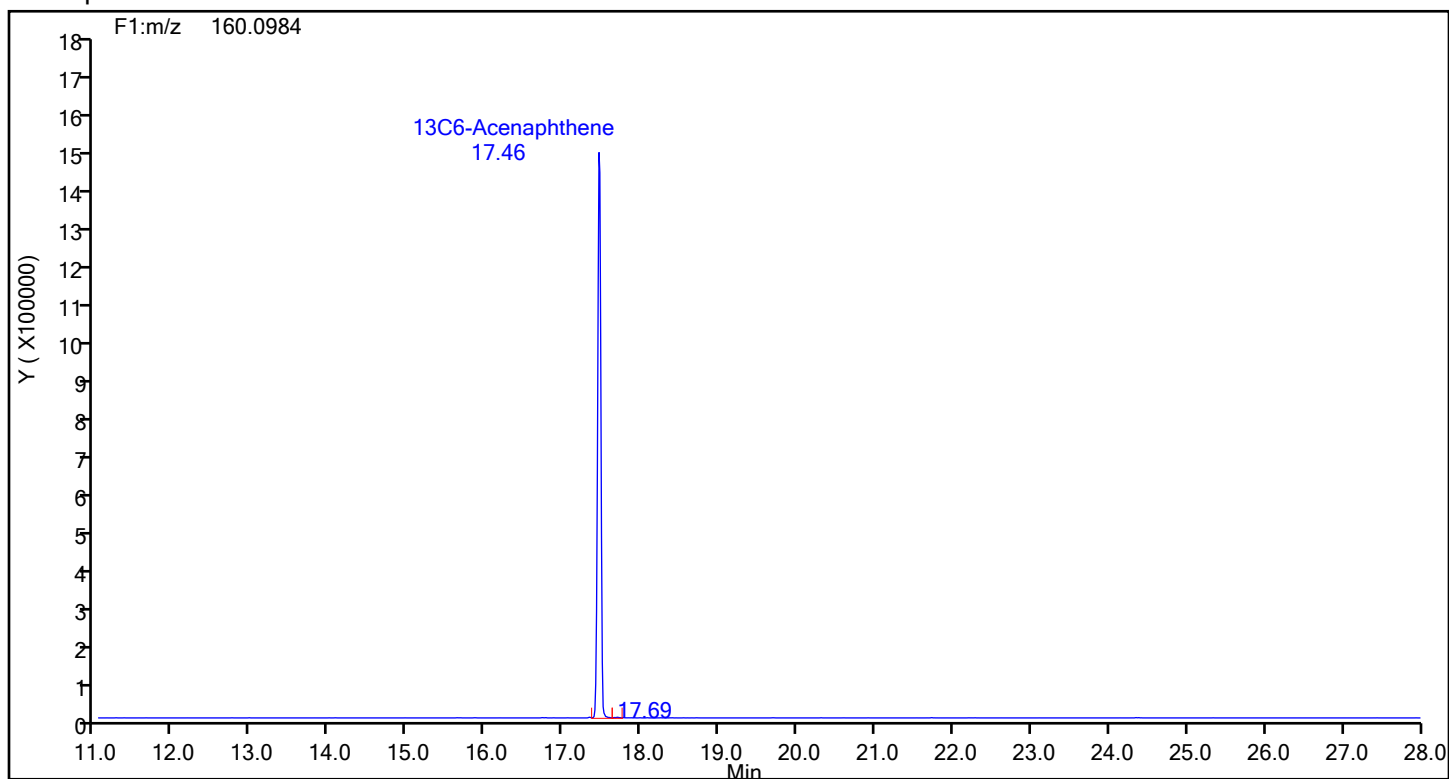
## Eurofins Knoxville

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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



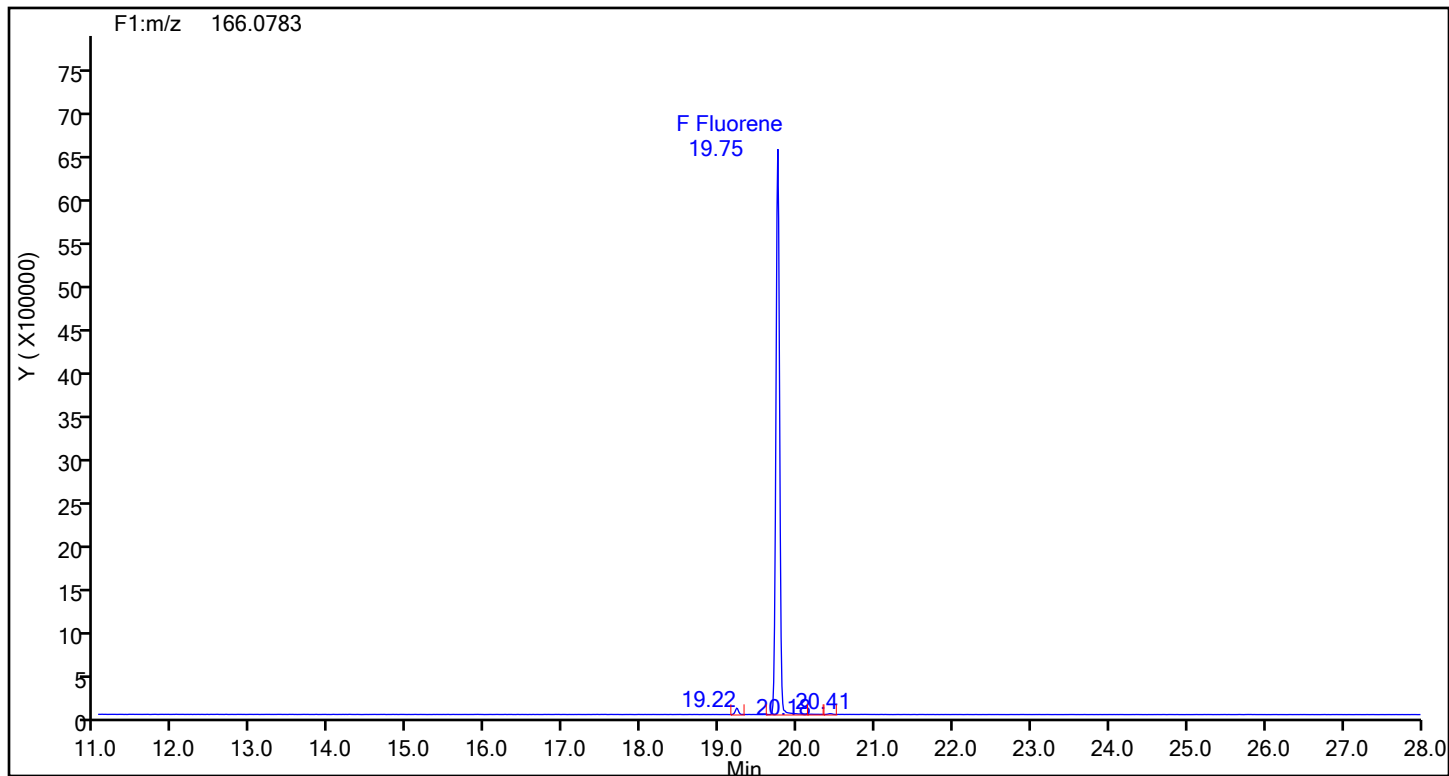
## Acenaphthene Standards



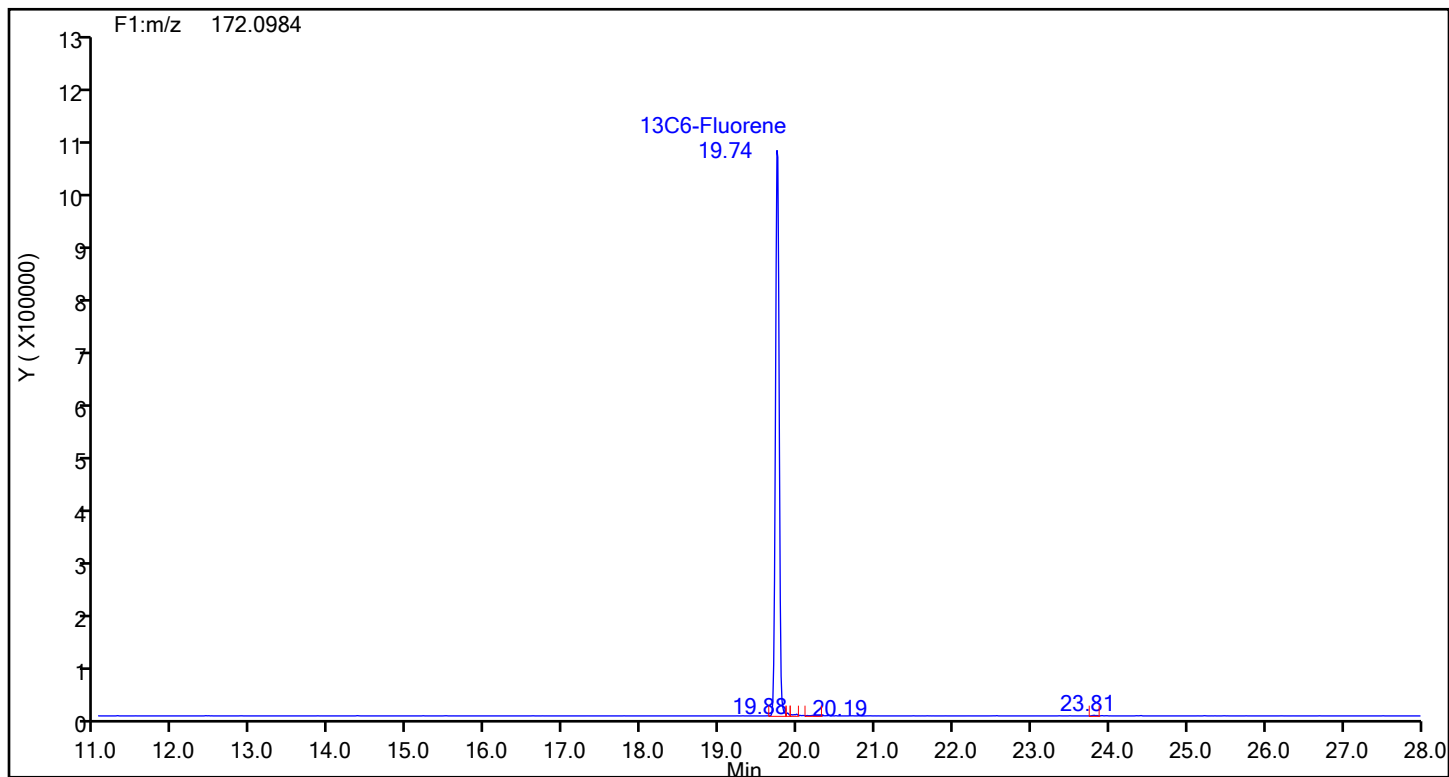
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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene

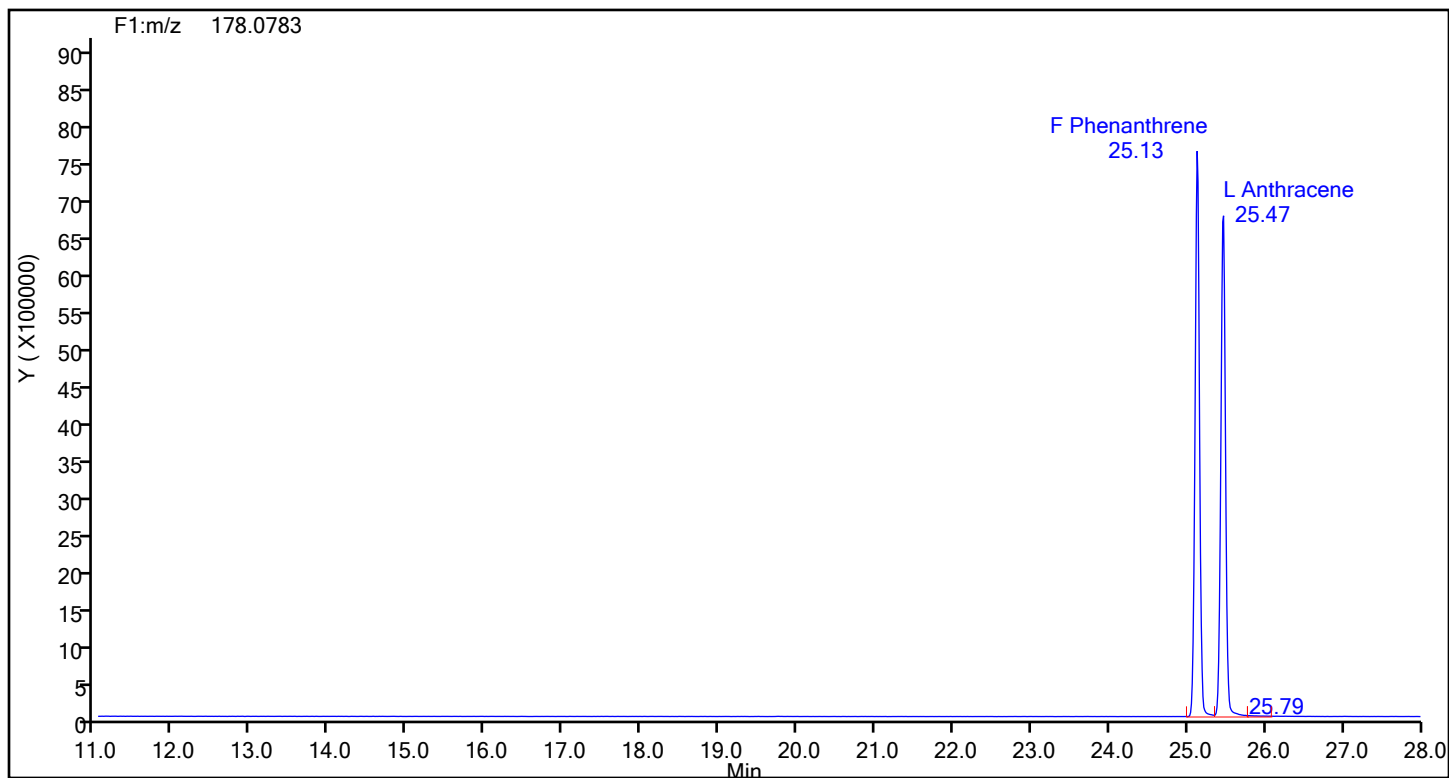


## Fluorene Standards

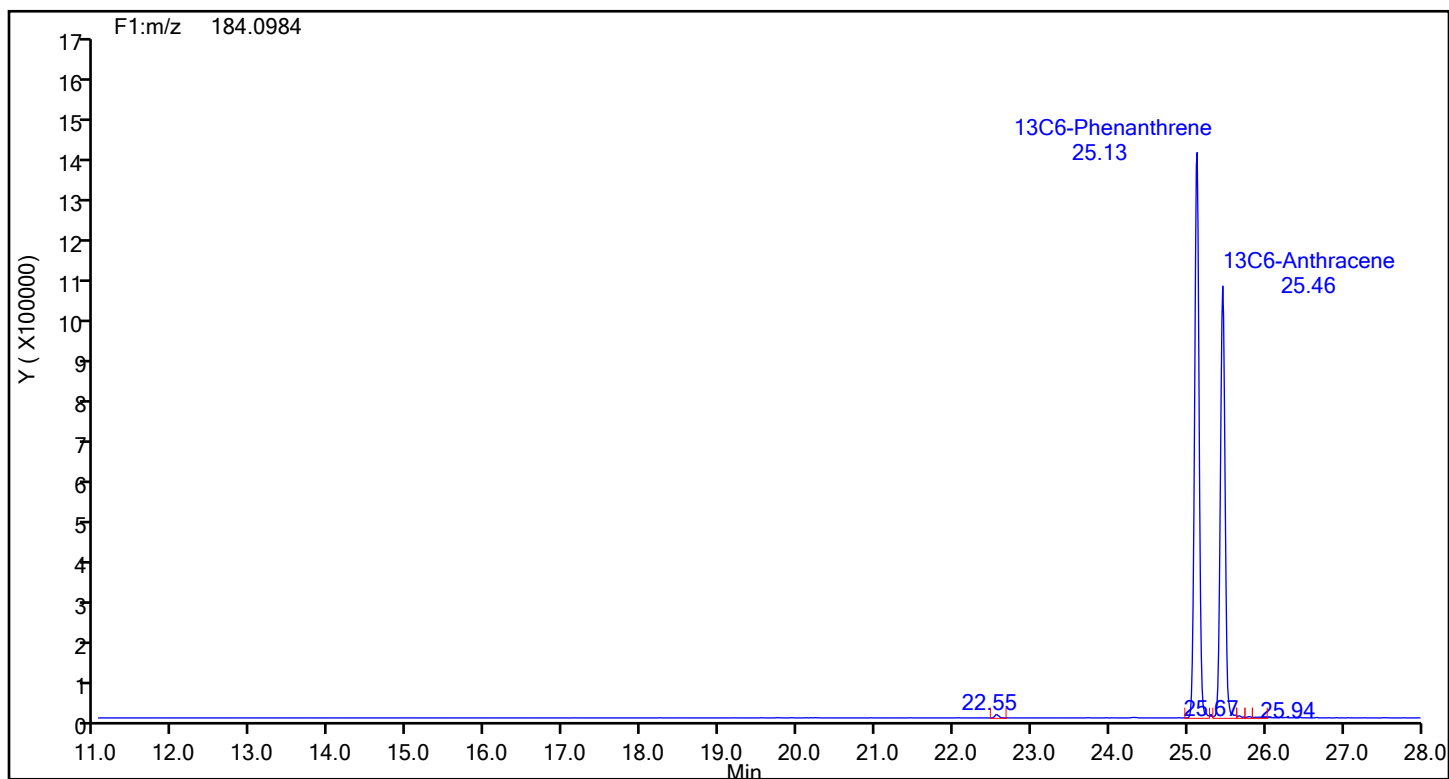


## Eurofins Knoxville

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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene



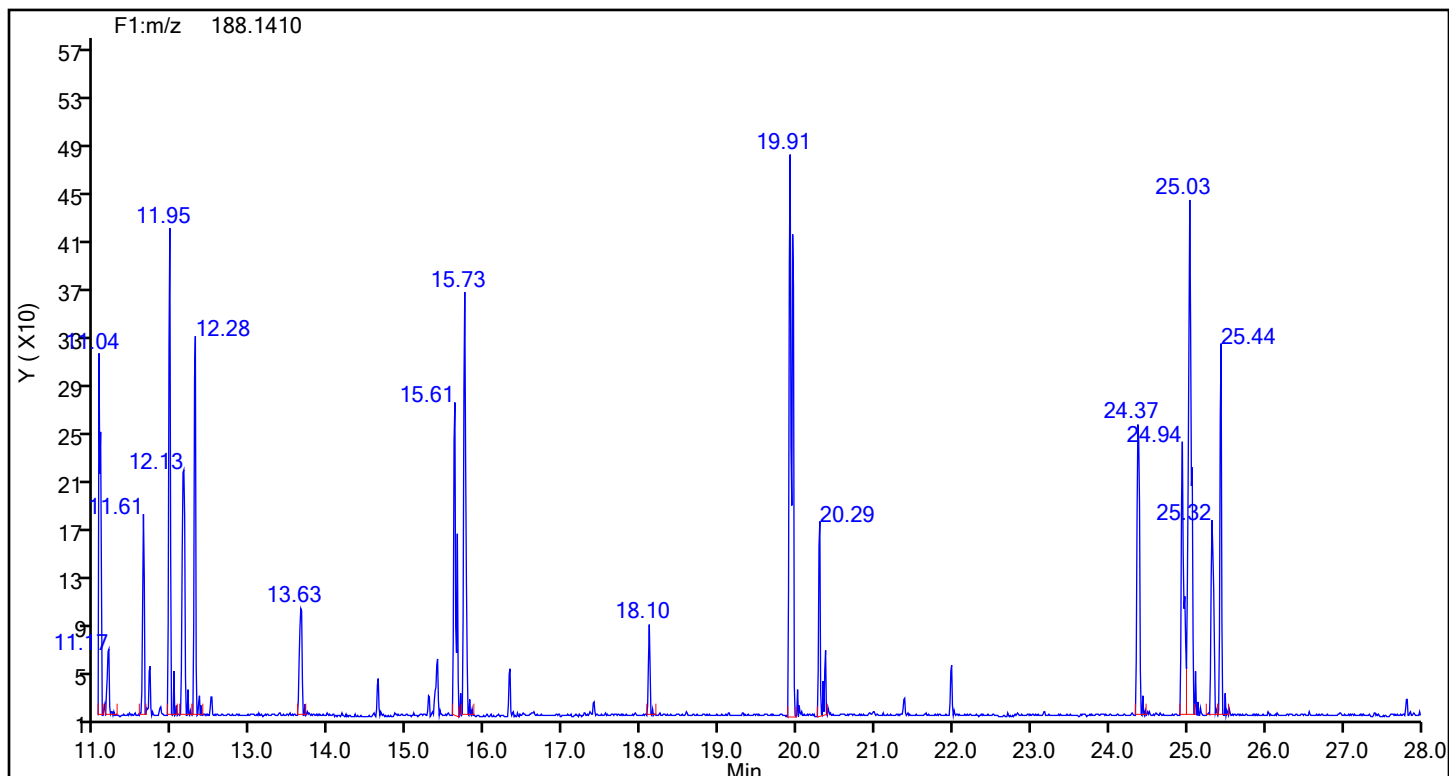
## Phenanthrene Standards



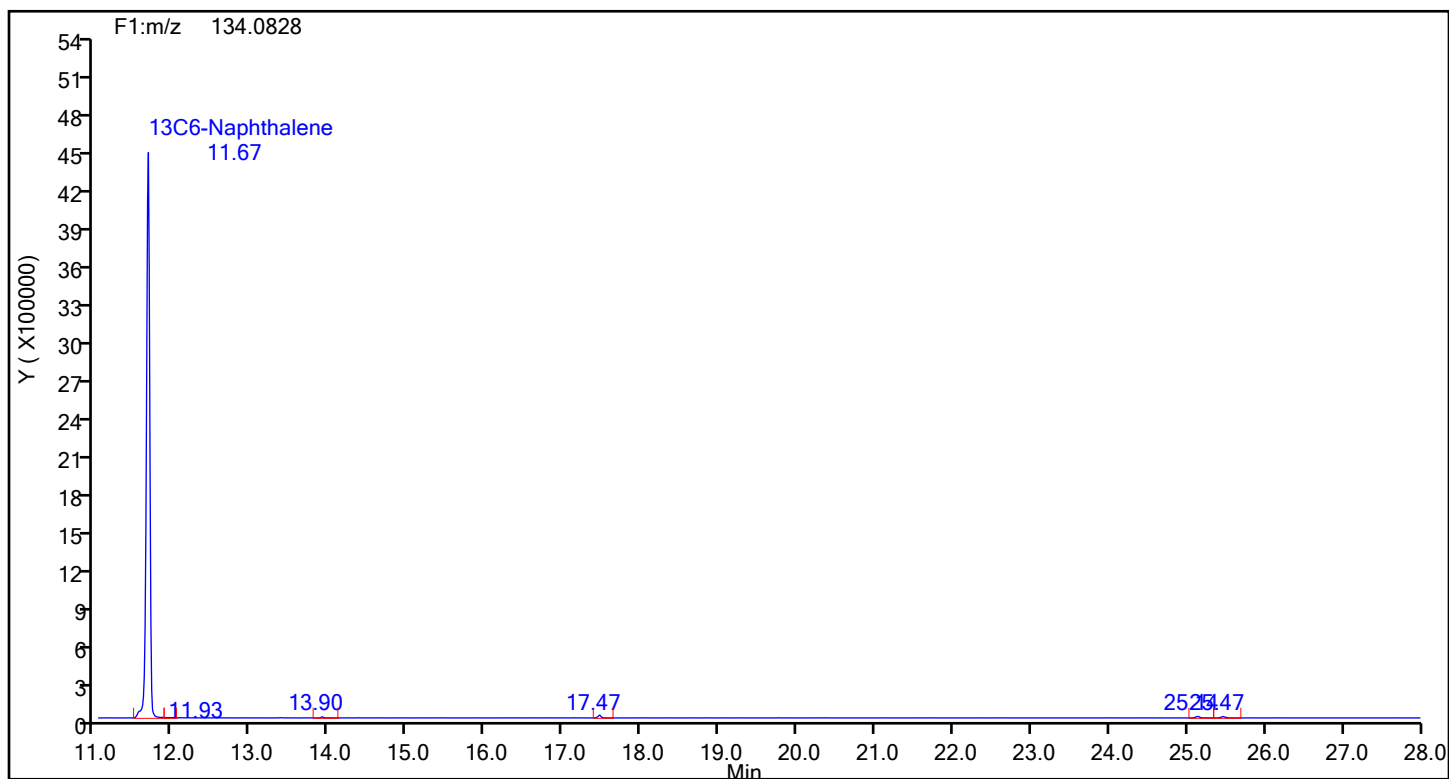


## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10



## Anthracin-d10 Standards



## Eurofins Knoxville

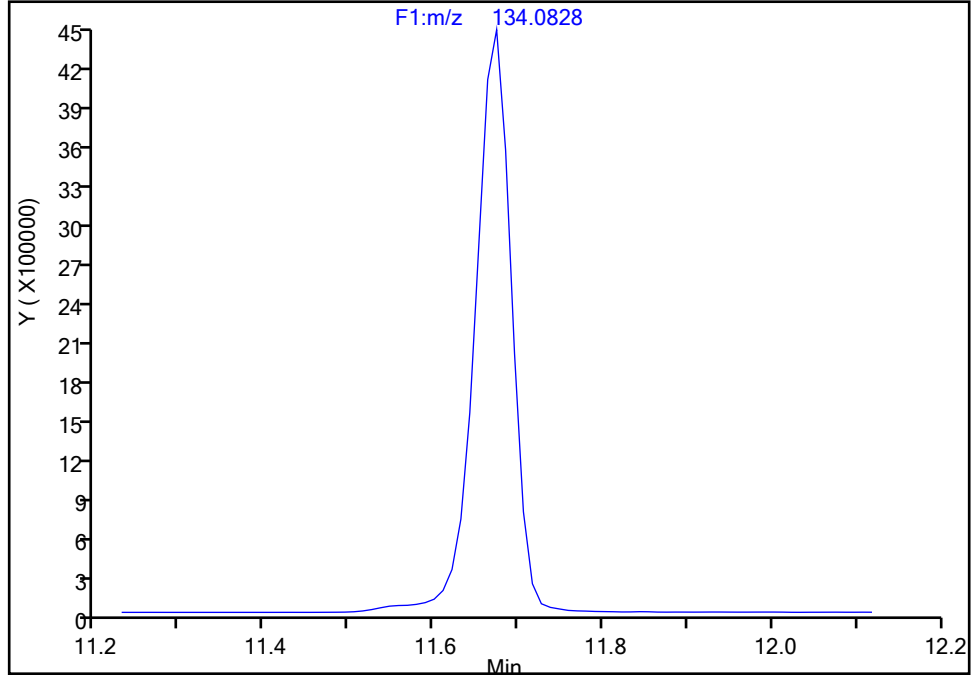
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Injection Date: 20-Jun-2024 02:46:00 Instrument ID: D3PAH  
Lims ID: ICV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

**13C6-Naphthalene, CAS: STL02217**

Signal: 1

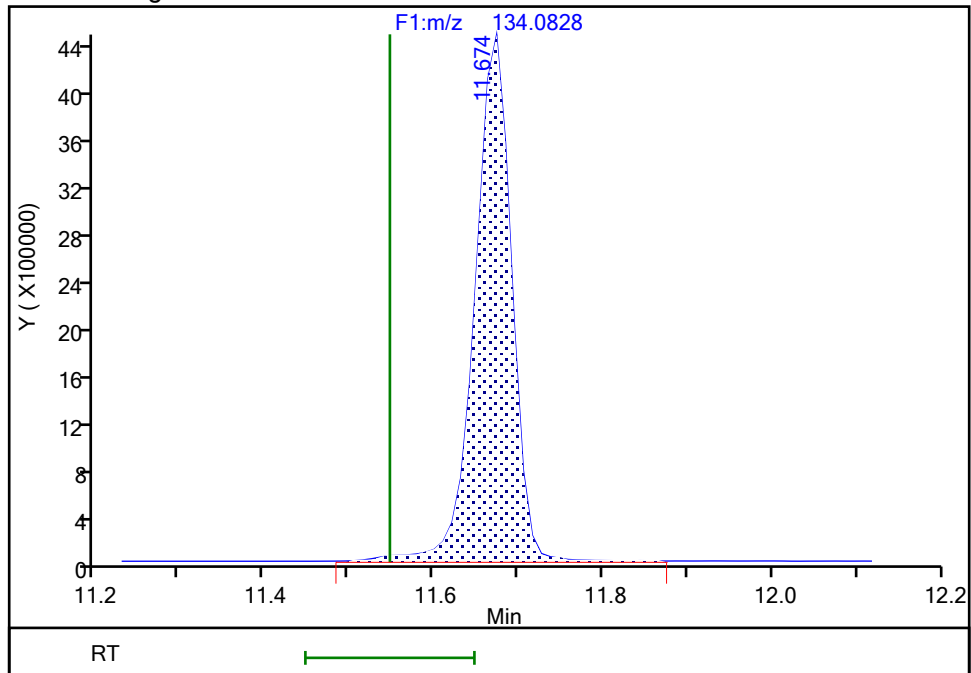
Not Detected  
Expected RT: 11.55

## Processing Integration Results



RT: 11.67  
Area: 13477442  
Amount: 92.802548  
Amount Units: pg/ul

## Manual Integration Results



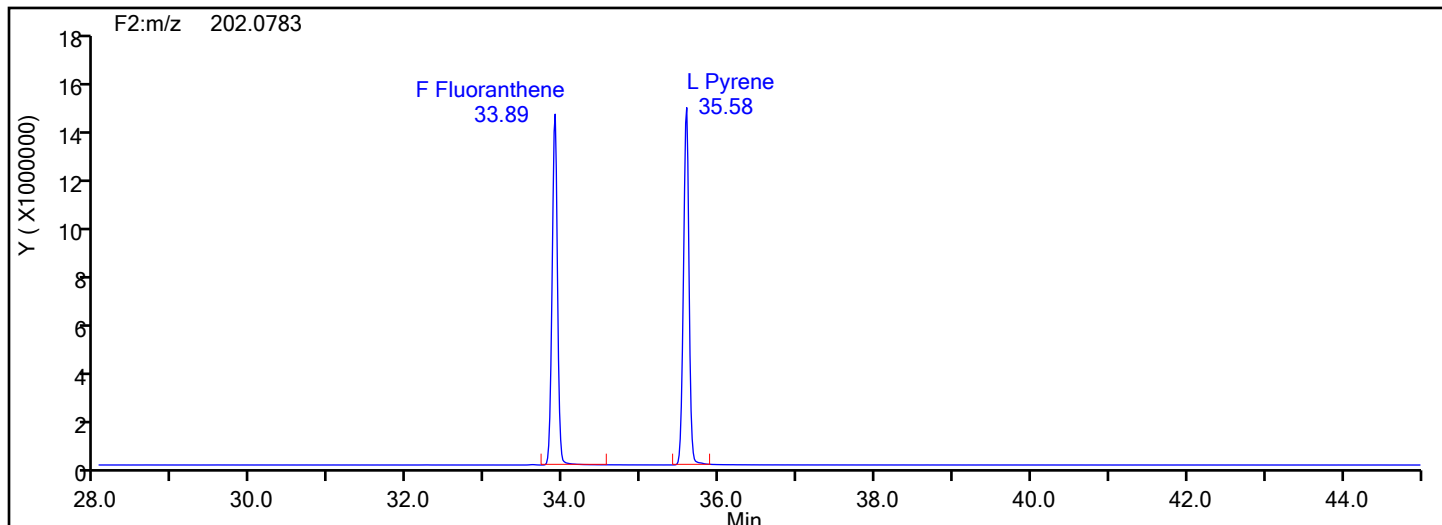
Reviewer: F9EE, 20-Jun-2024 09:48:39 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

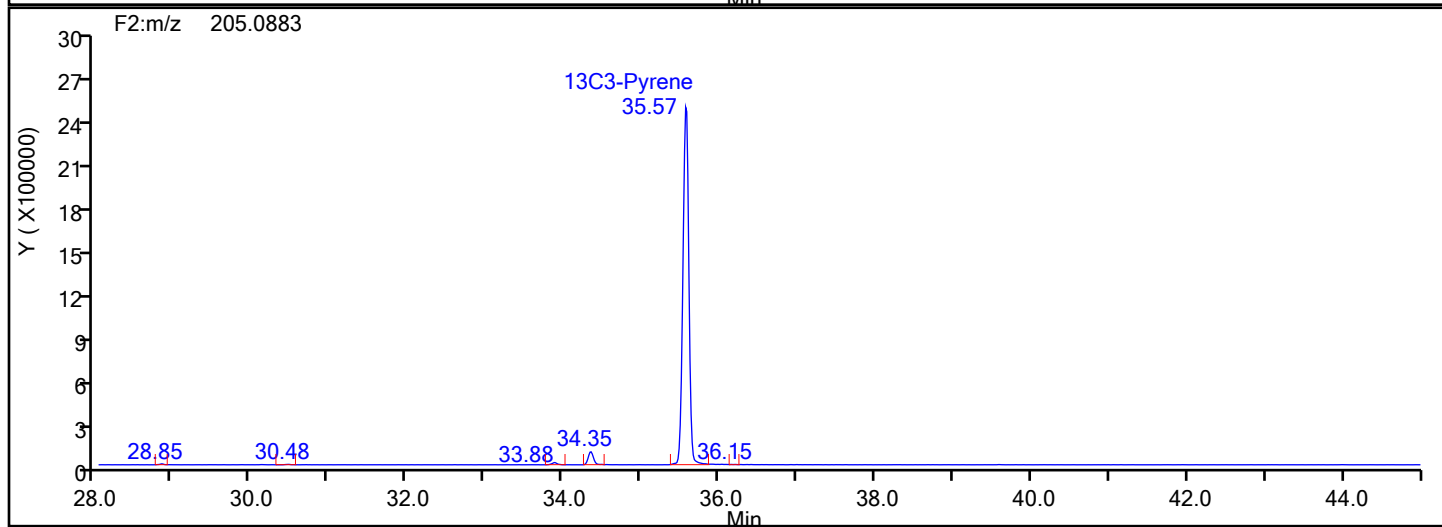
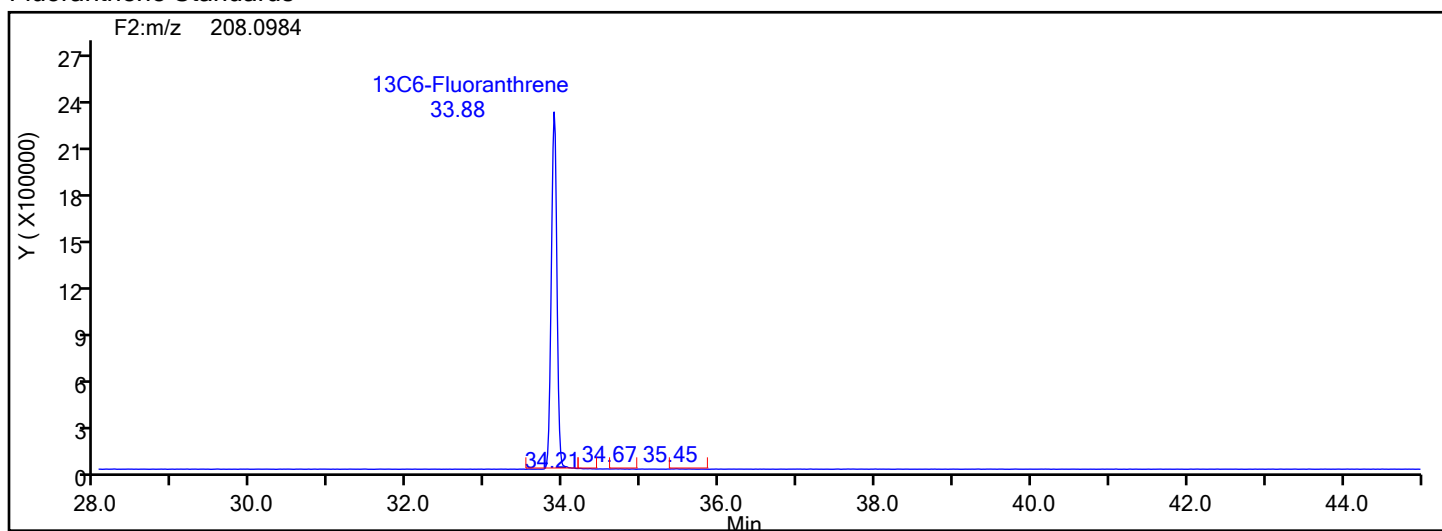
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



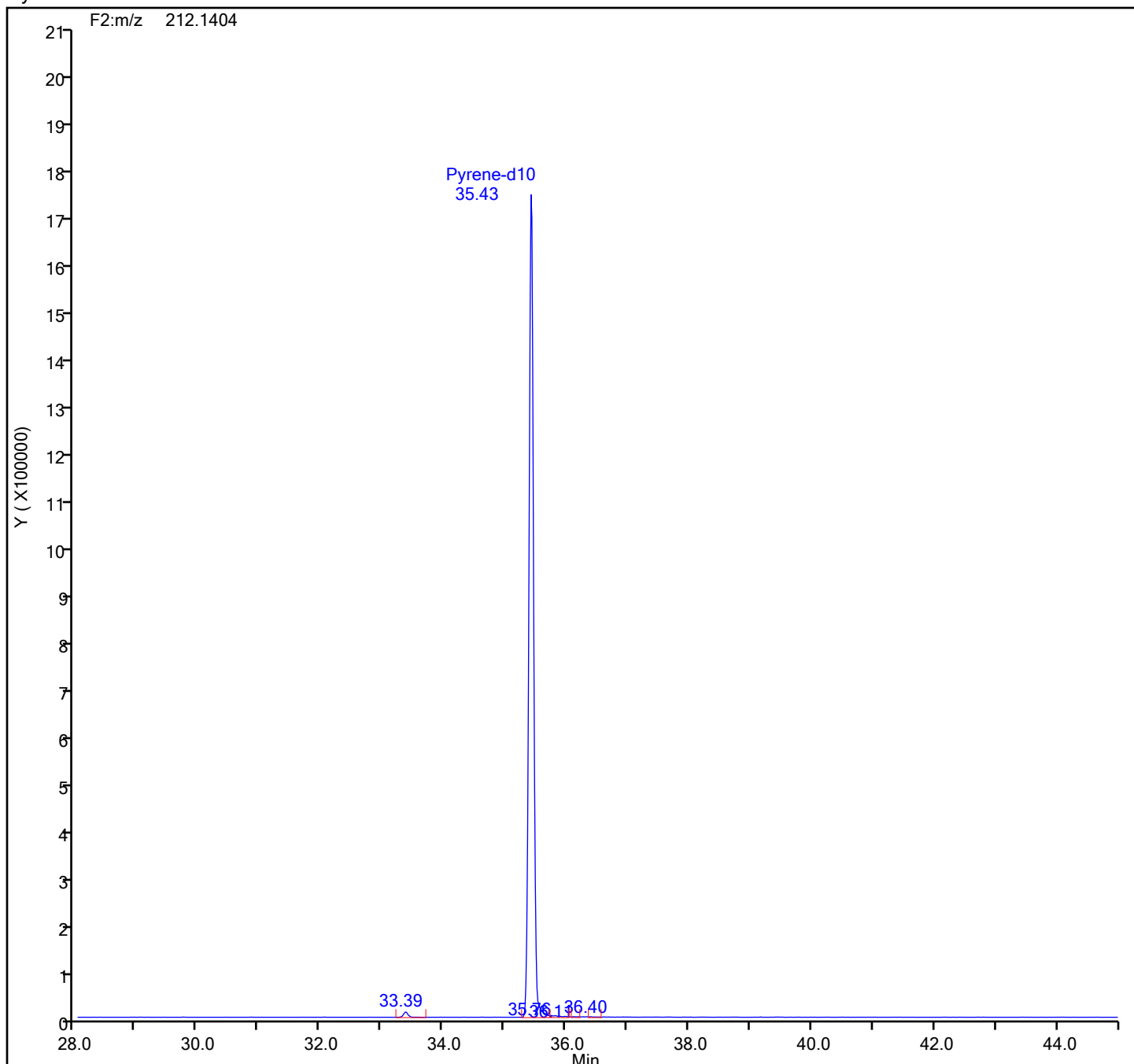
## Fluoranthene Standards



## Eurofins Knoxville

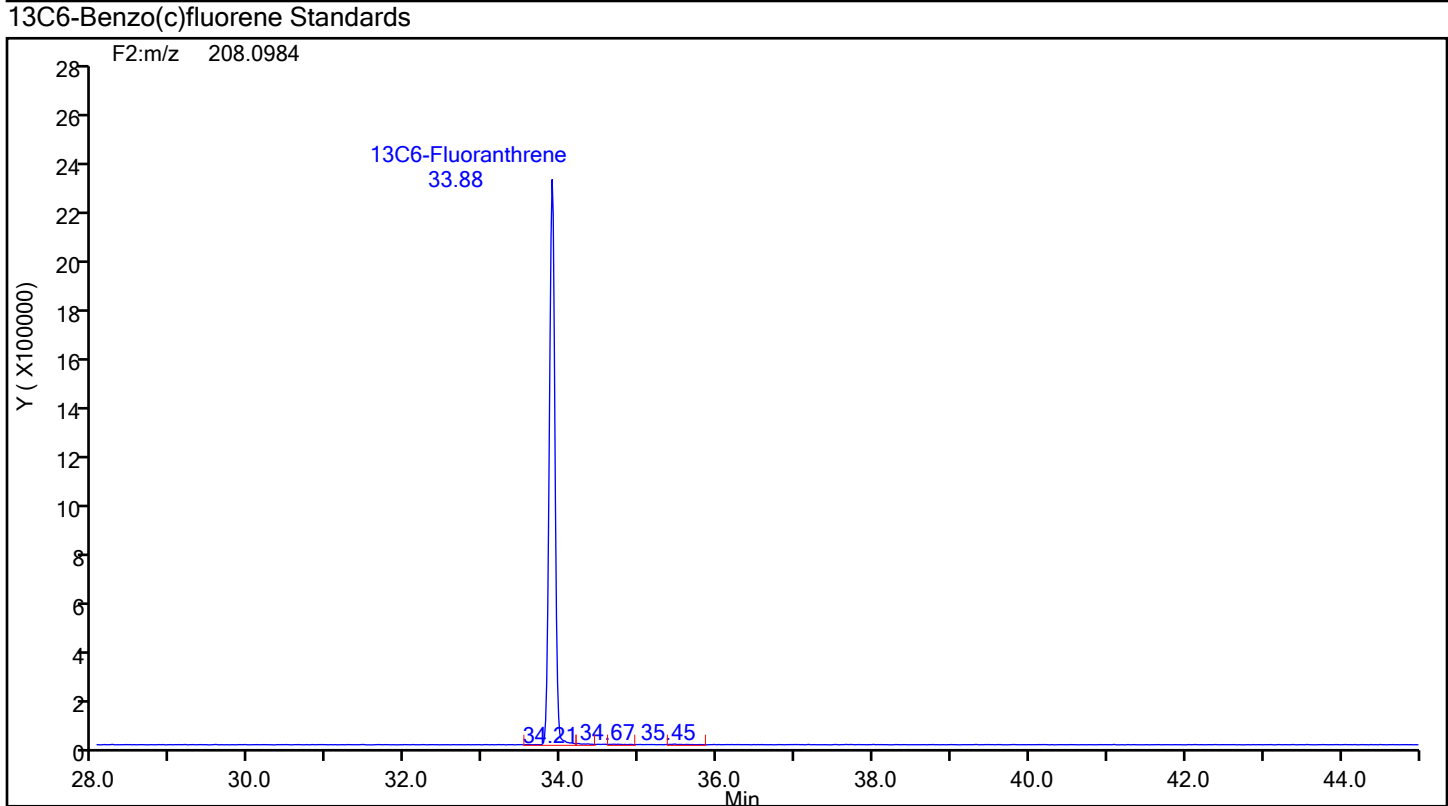
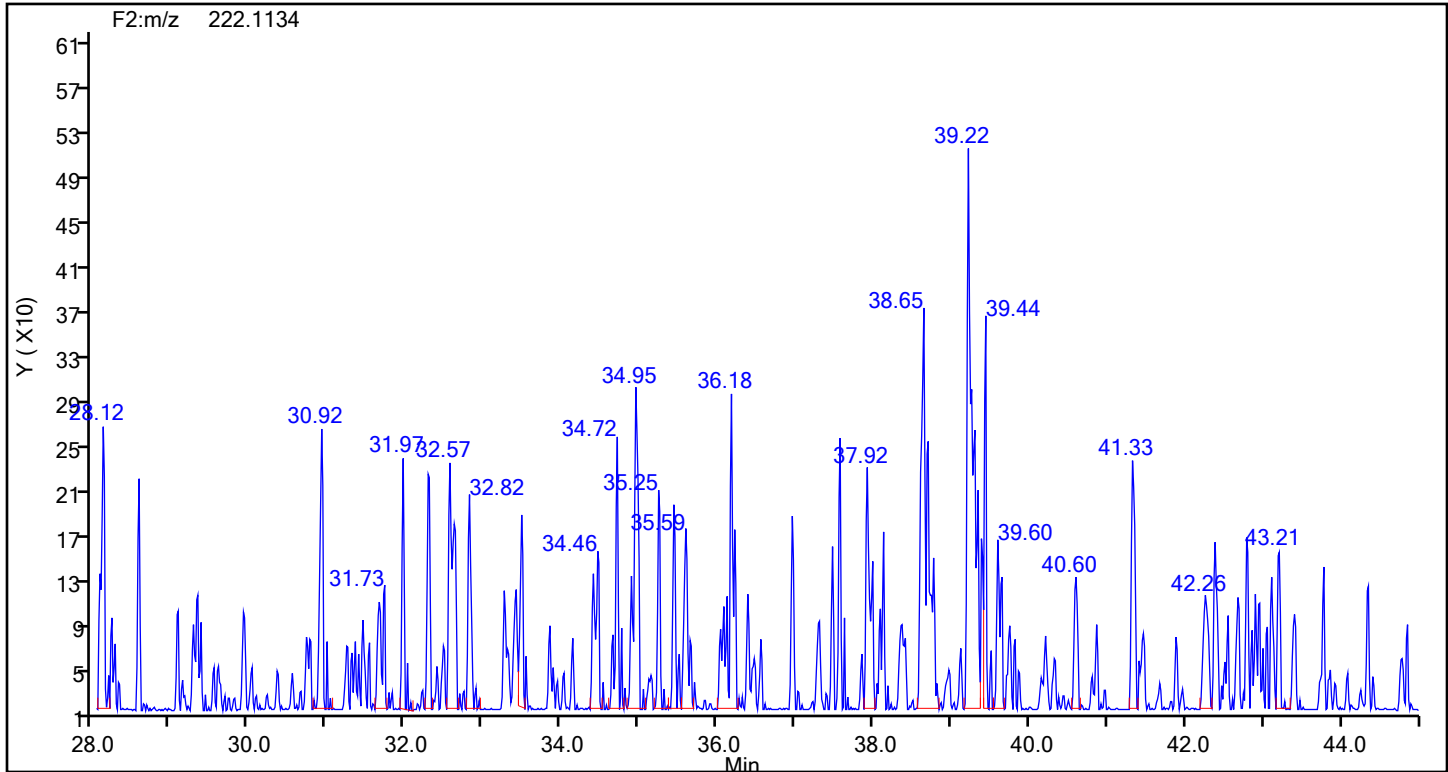
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene-d10 Standards



## Eurofins Knoxville

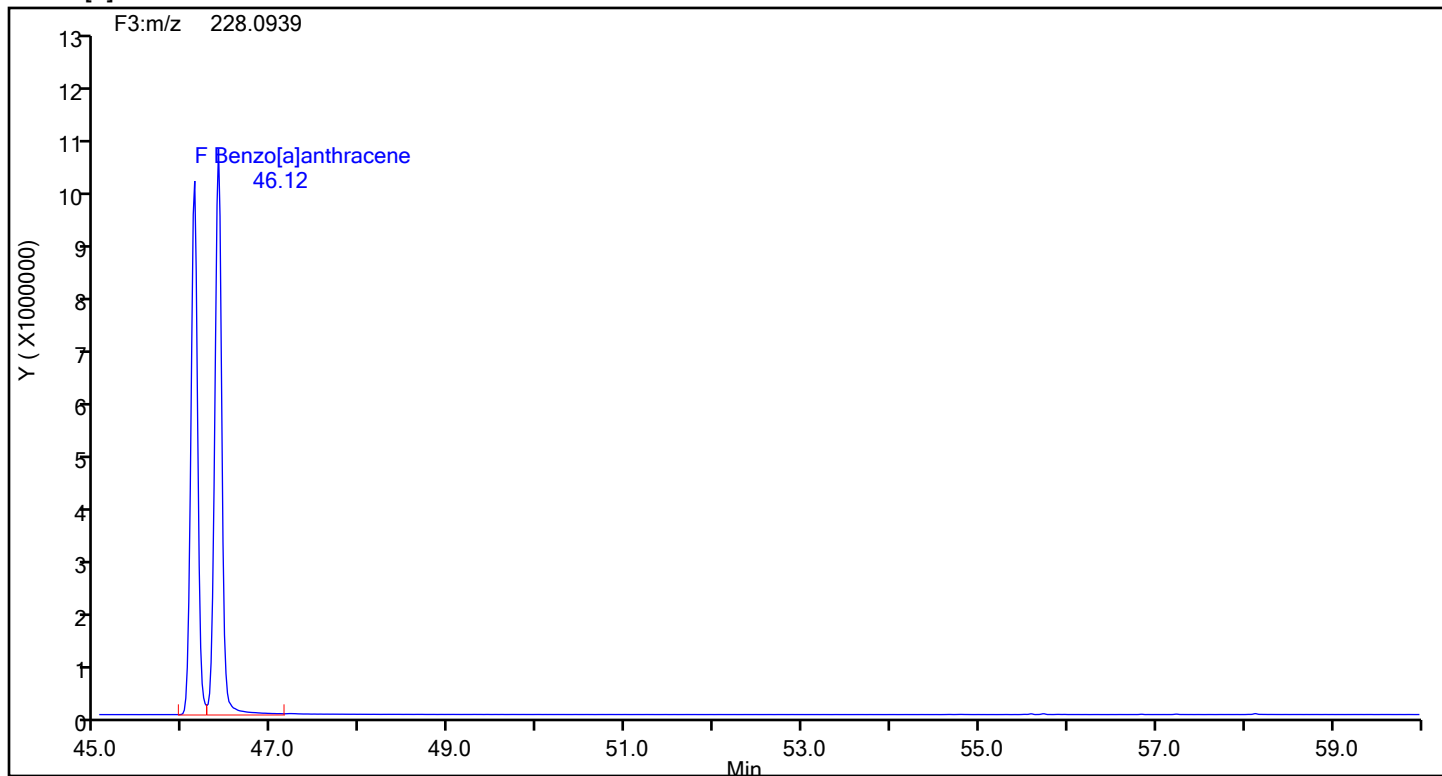
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
13C6-Benzo(c)fluorene



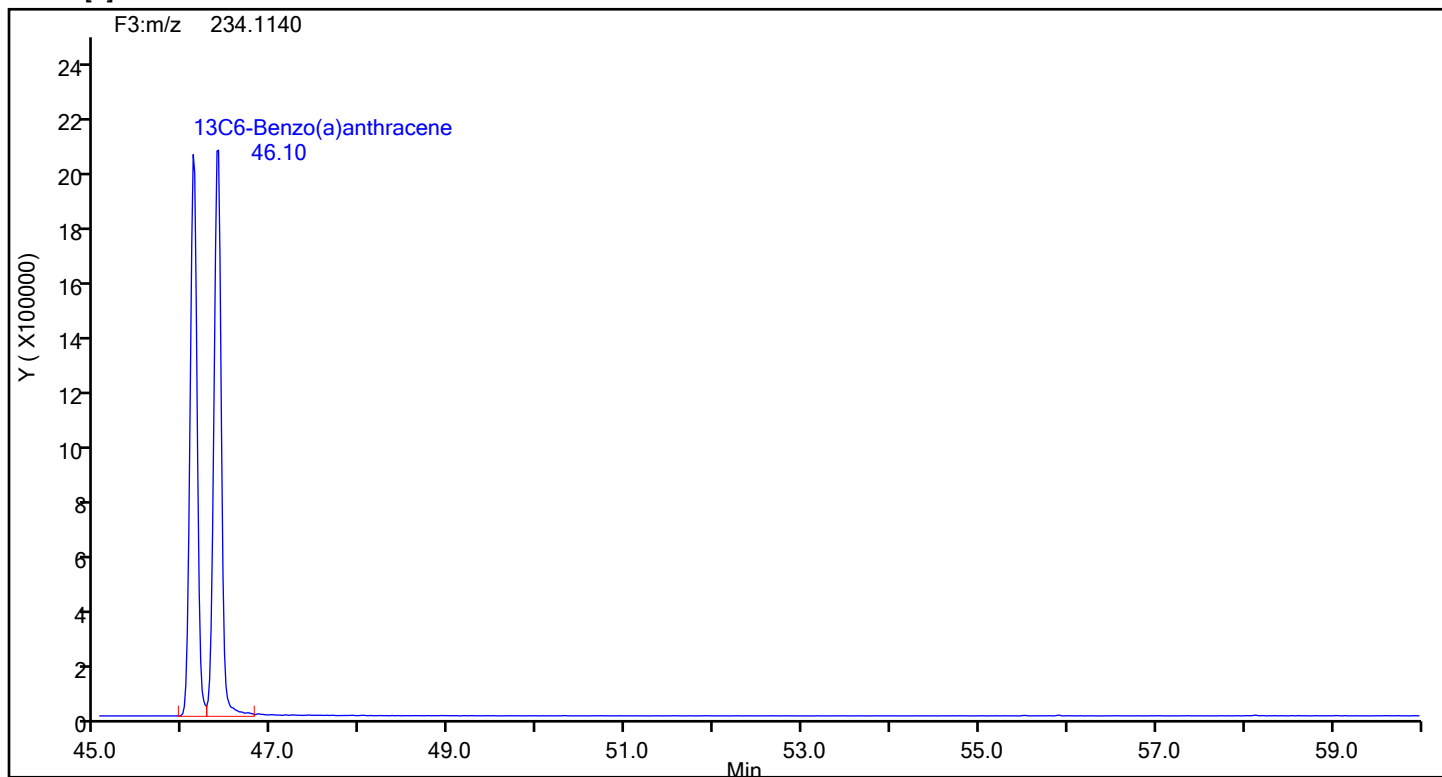
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



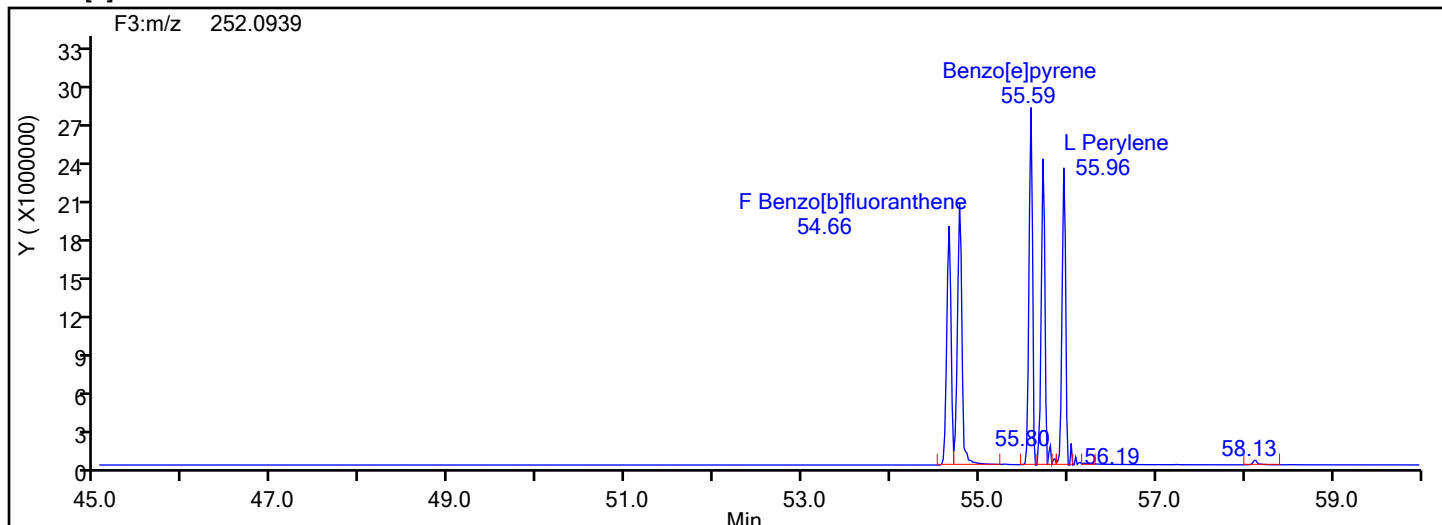
## Benzo[a]anthracene Standards



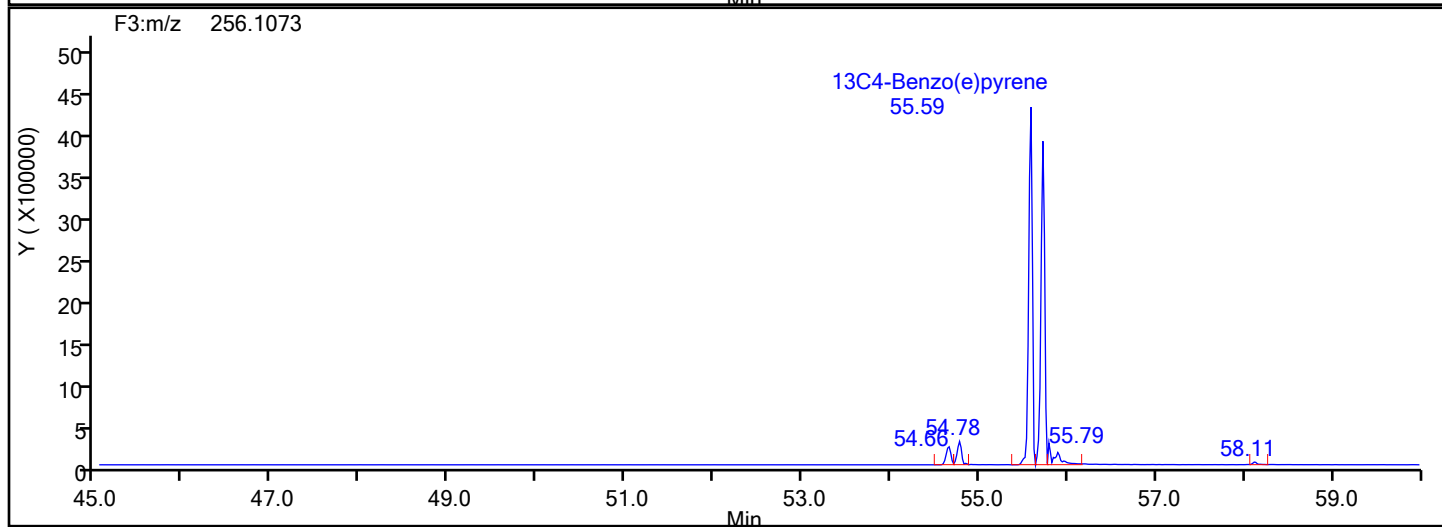
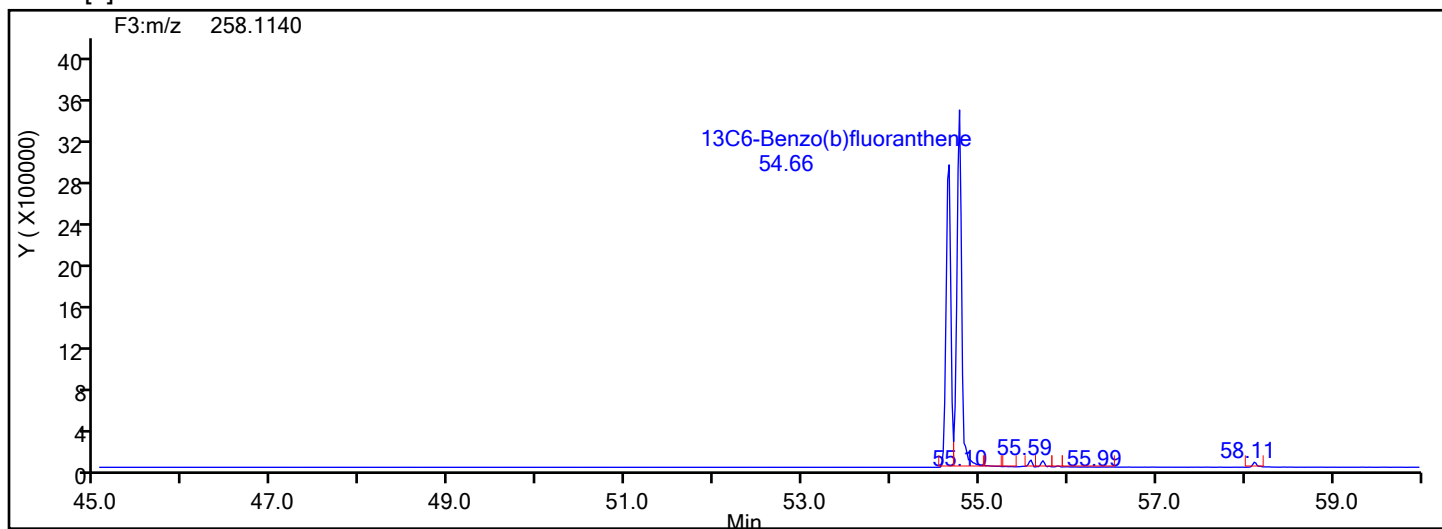
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



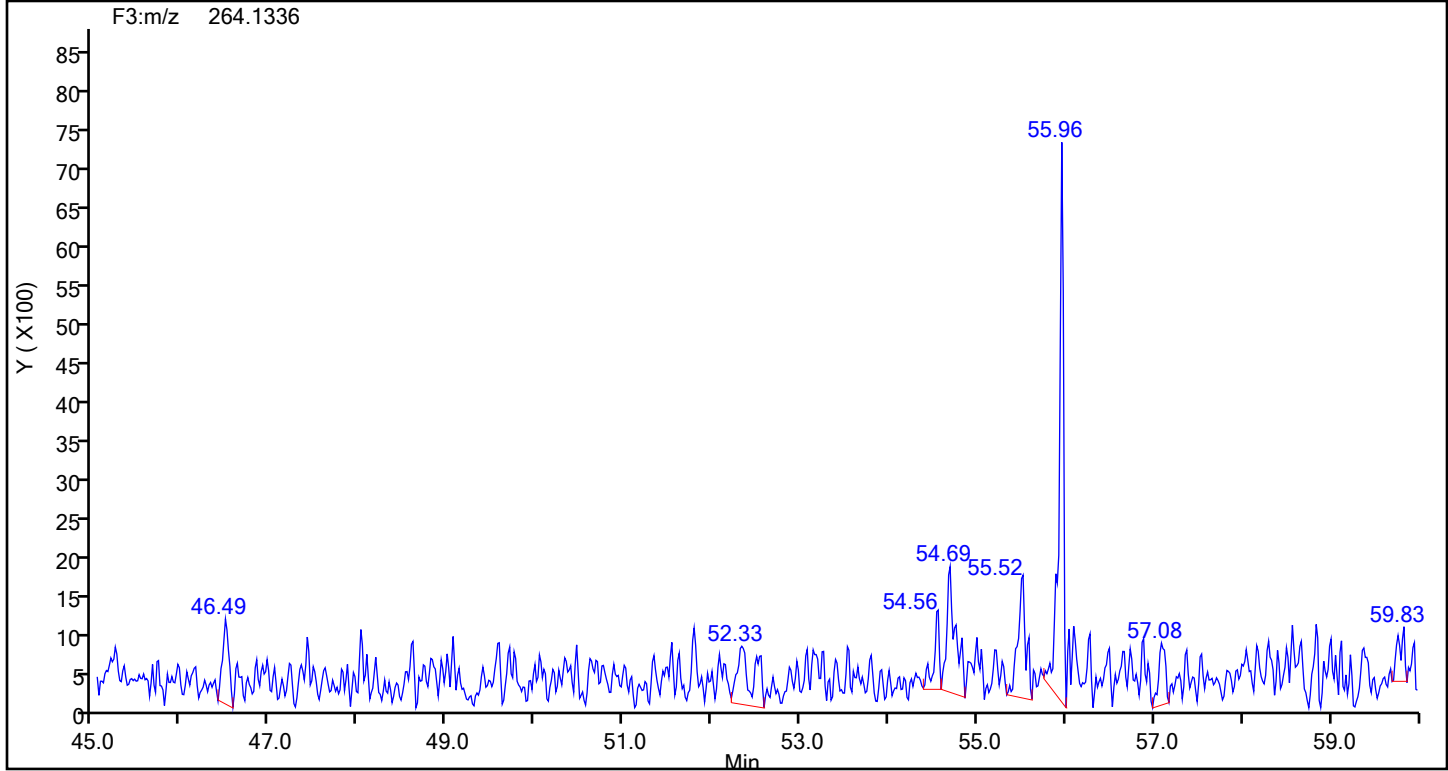
## Benzo[b]fluoranthene Standards



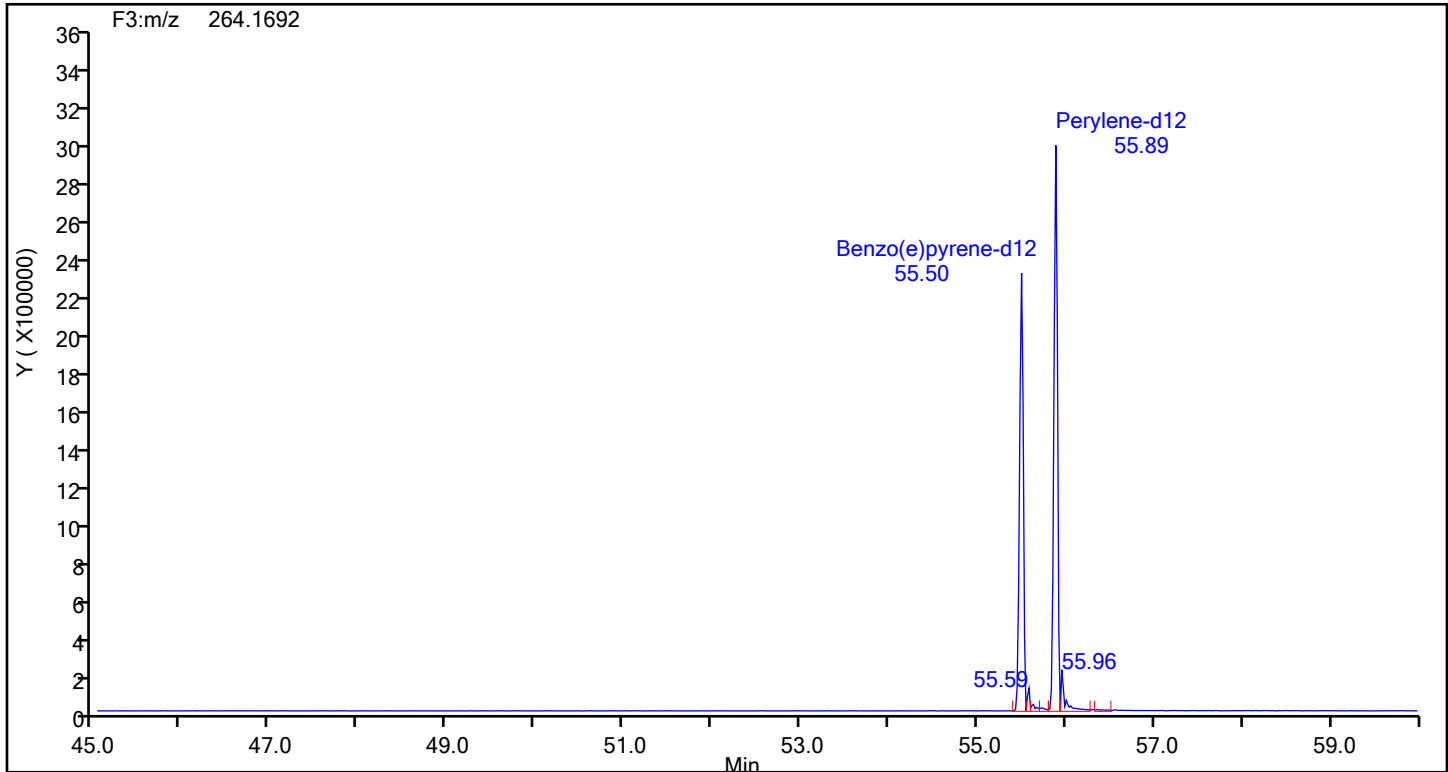
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



## 13C12-Benzo(j)fluoranthene Standards

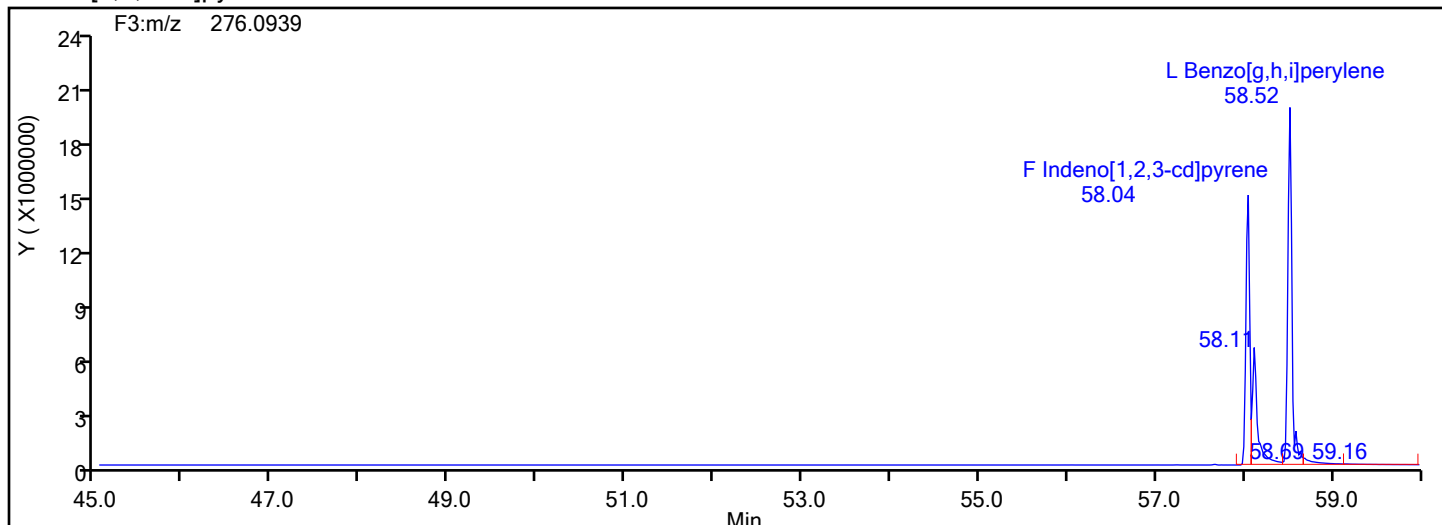




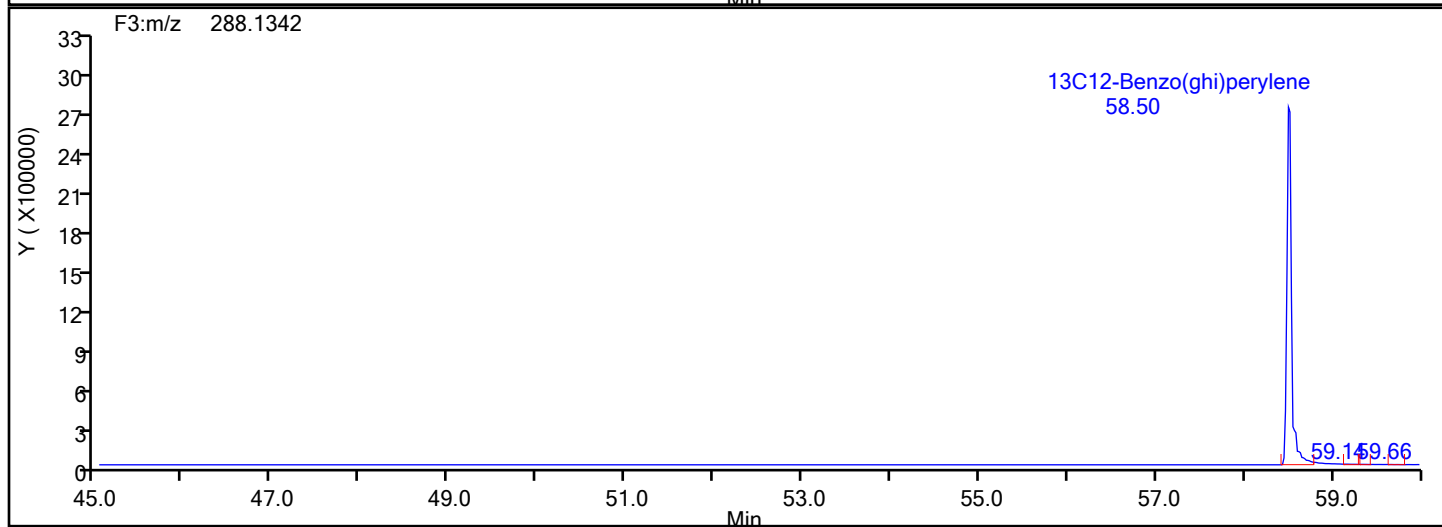
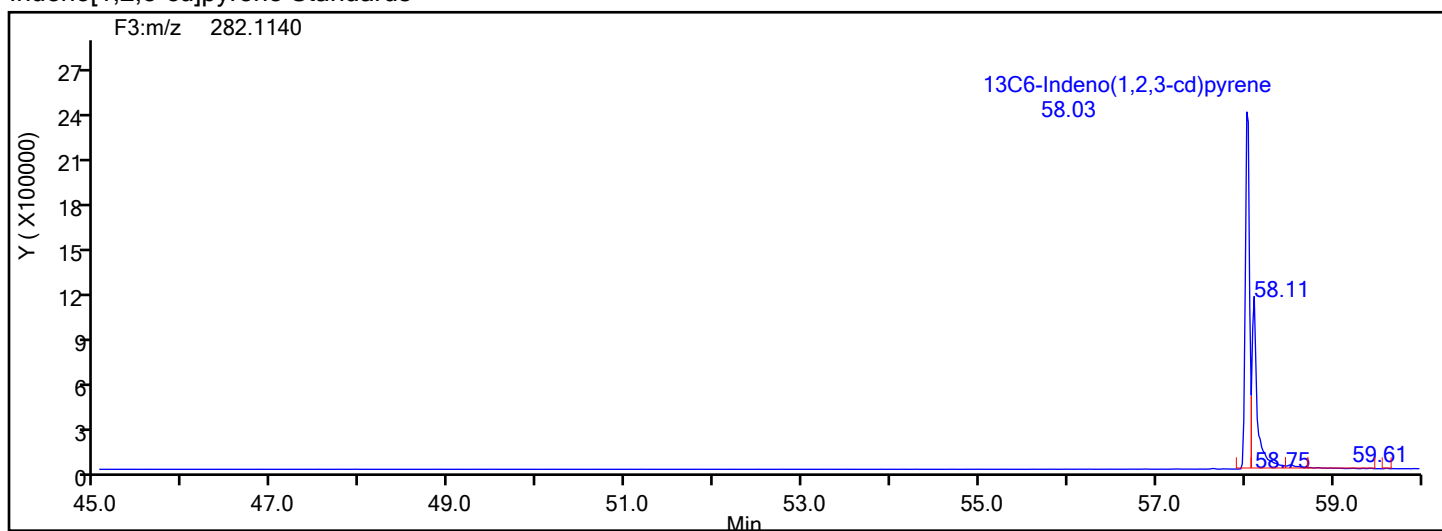
## Eurofins Knoxville

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Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRP AH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



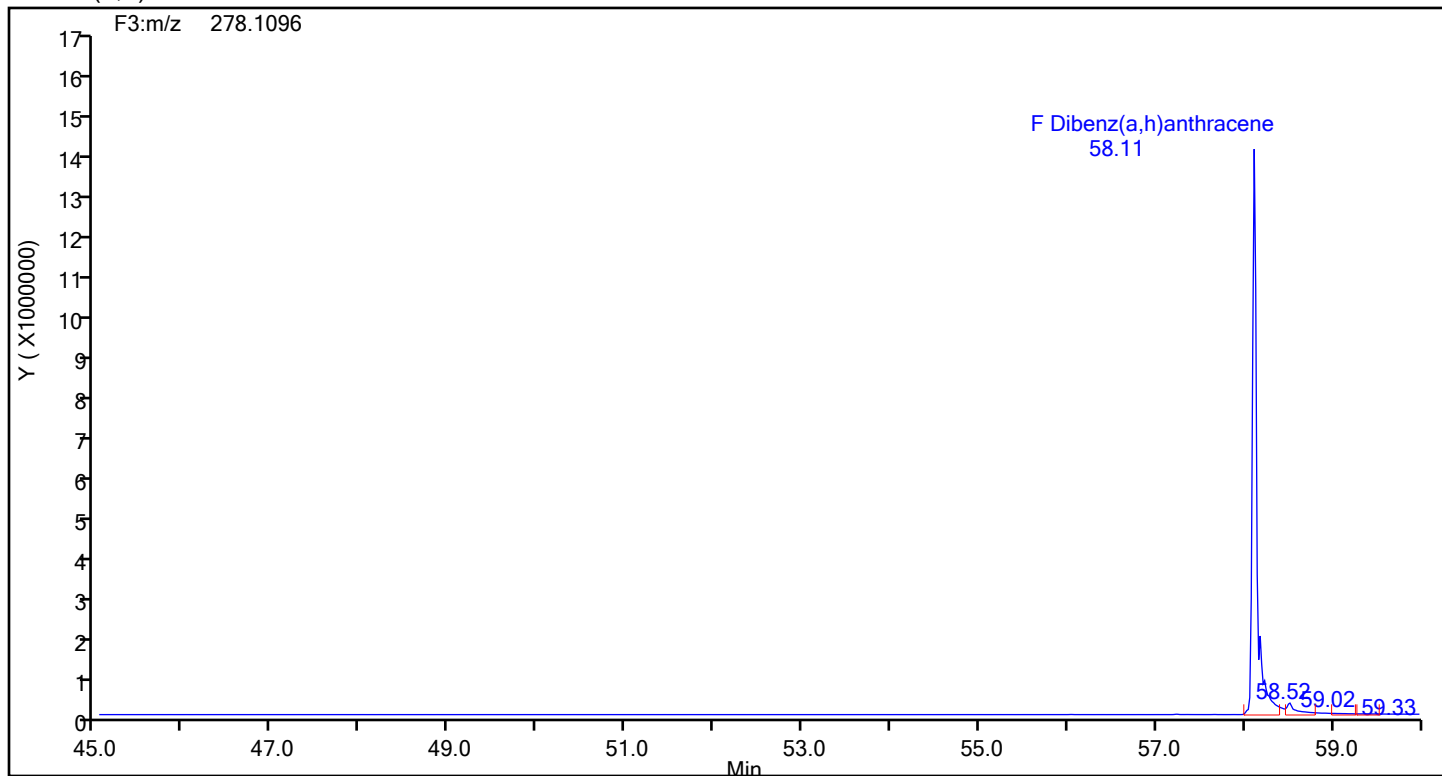
## Indeno[1,2,3-cd]pyrene Standards



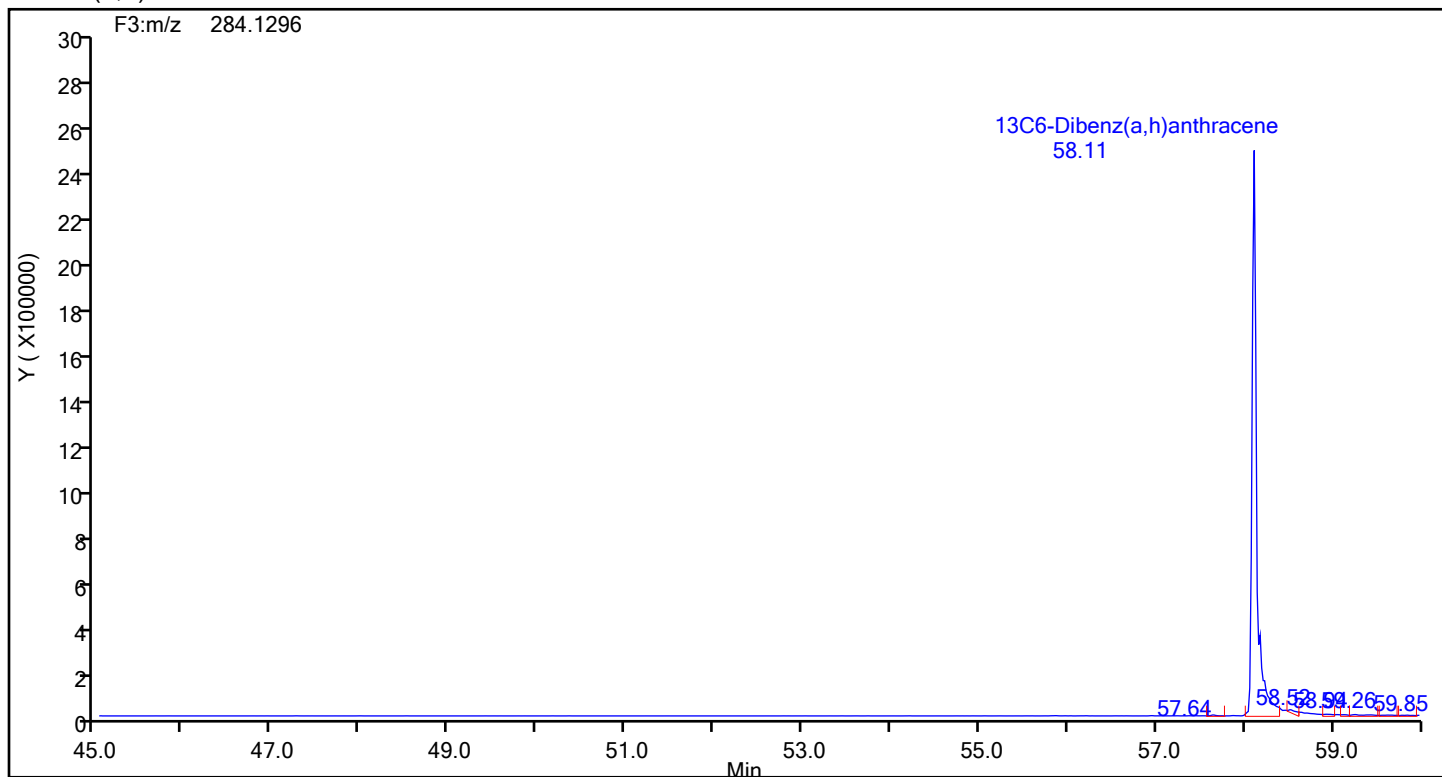
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619icv.d  
Injection Date: 20-Jun-2024 02:46:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 87843 Sample Line#: 10  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



FORM VII  
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCV 140-88561/1 Calibration Date: 07/10/2024 10:12

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240710c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.121		174	200	-13.1	25.0
2-Methylnaphthalene	AveID	1.279	1.229		192	200	-3.9	25.0
Acenaphthylene	AveID	2.366	2.377		201	200	0.5	25.0
Acenaphthene	AveID	1.270	1.161		183	200	-8.6	25.0
Fluorene	AveID	1.253	1.278		204	200	2.0	25.0
Phenanthrene	AveID	1.104	1.114		202	200	0.9	25.0
Anthracene	AveID	1.359	1.398		206	200	2.9	25.0
Fluoranthene	AveID	1.151	1.092		190	200	-5.2	25.0
Pyrene	AveID	1.065	1.023		192	200	-4.0	25.0
Benzo[a]anthracene	AveID	0.9739	1.193		245	200	22.5	25.0
Chrysene	AveID	0.9815	1.198		244	200	22.0	25.0
Benzo[b]fluoranthene	AveID	1.125	1.088		193	200	-3.3	25.0
Benzo[k]fluoranthene	AveID	1.127	1.052		187	200	-6.7	25.0
Benzo[e]pyrene	AveID	1.001	0.9688		194	200	-3.2	25.0
Benzo[a]pyrene	AveID	1.113	1.070		192	200	-3.9	25.0
Perylene	AveID	1.431	1.332		186	200	-6.9	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.144		203	200	1.7	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.143		202	200	1.0	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.252		195	200	-2.5	25.0
13C6-Naphthalene	Ave	3.375	2.577		76.4	100	-23.6	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.275		79.6	100	-20.4	30.0
13C6-Acenaphthylene	Ave	1.652	1.740		105	100	5.3	30.0
13C6-Acenaphthene	Ave	0.9792	0.9283		94.8	100	-5.2	30.0
13C6-Fluorene	Ave	0.8898	0.9486		107	100	6.6	30.0
13C6-Phenanthrene	Ave	0.5724	0.5862		102	100	2.4	30.0
13C6-Anthracene	Ave	0.4523	0.4541		100	100	0.4	30.0
13C6-Fluoranthrene	Ave	1.199	1.195		99.6	100	-0.4	30.0
13C3-Pyrene	Ave	1.351	1.319		97.6	100	-2.4	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.661		109	100	9.3	30.0
13C6-Chrysene	Ave	1.629	1.613		99.0	100	-1.0	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.438		98.3	100	-1.7	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.545		88.3	100	-11.7	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.563		95.5	100	-4.5	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.537		99.1	100	-0.9	30.0
Perylene-d12	Ave	1.192	1.330		112	100	11.6	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.322		129	100	29.3	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.313		124	100	24.4	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.308		103	100	2.6	30.0
Anthracene-d10	Ave	0.4257	0.4554		107	100	7.0	25.0
13C6-Benzo(c)fluorene	Ave	0.5136	0.5931		116	100	15.5	25.0
13C12-Benzo(j)fluoranthene	Ave	1.356	1.269		93.6	100	-6.4	25.0

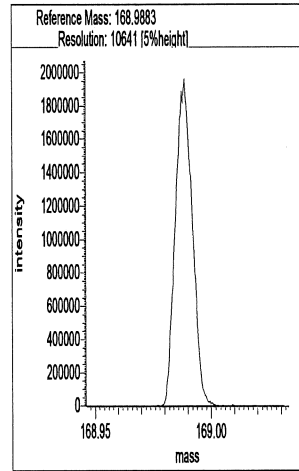
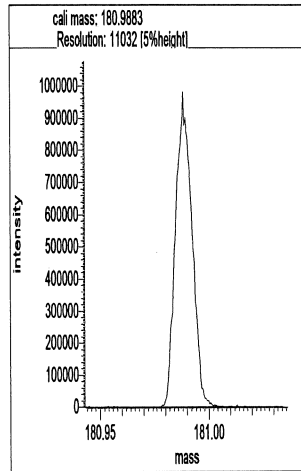
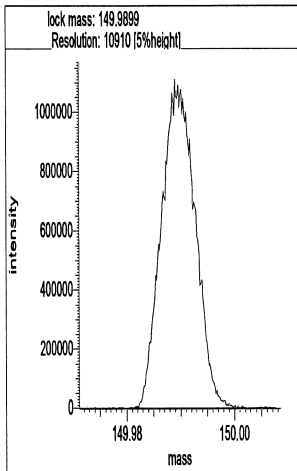
# Resolution Check Report ( DFS SN: 3439 )

Date: 10 Jul 2024 09:12  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

## Segment 1

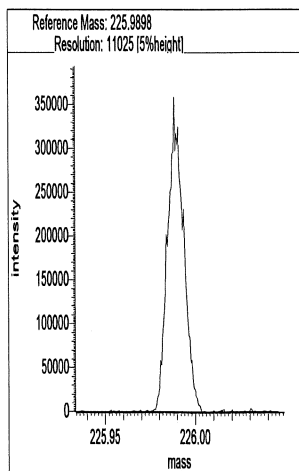
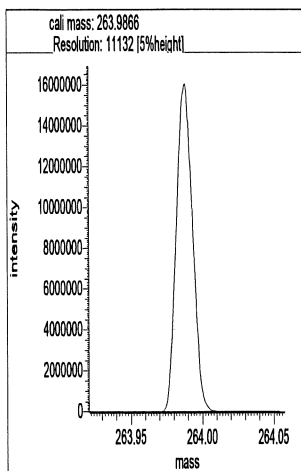
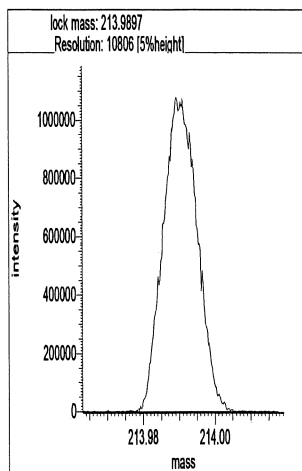
d3240710r1

Lock mass 149.9899 [m/z] Resolution: 10910 [5%height]  
Cali. mass 180.9883 [m/z] Resolution: 11032 [5%height]  
Ref. mass 168.9883 [m/z] Resolution: 10641 [5%height]



## Segment 2

Lock mass 213.9897 [m/z] Resolution: 10806 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 11132 [5%height]  
Ref. mass 225.9898 [m/z] Resolution: 11025 [5%height]

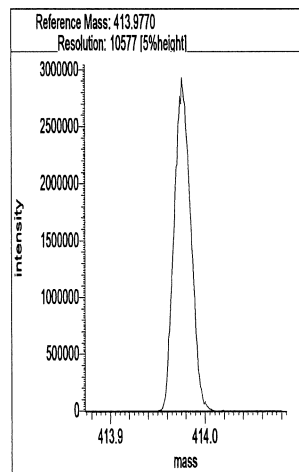
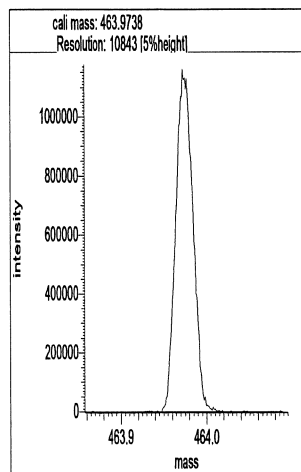
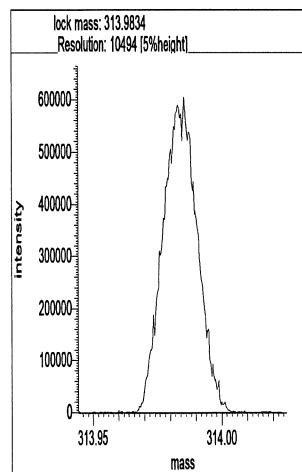


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 10494 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 10843 [5%height]


Ref. mass 413.9770 [m/z] Resolution: 10577 [5%height]



## Reports

09:23:08: Peak matching procedure started  
09:23:08:  
09:23:09: Reference mass: 263.98656  
09:23:09: Sample mass: 414.0  
09:23:10:  
09:23:10: Finding reference mass  
09:23:11: Finding sample mass  
09:23:12:  
09:23:18: [1] 413.9734 amu, mean: 413.9734  
09:23:21: [2] 413.9732 amu, mean: 413.9733 SD: 0.11 mmu or: 0.27 ppm  
09:23:24: [3] 413.9729 amu, mean: 413.9732 SD: 0.25 mmu or: 0.61 ppm  
09:23:27: [4] 413.9724 amu, mean: 413.9730 SD: 0.43 mmu or: 1.03 ppm  
09:23:30: [5] 413.9720 amu, mean: 413.9728 SD: 0.57 mmu or: 1.38 ppm  
09:23:33: [6] 413.9722 amu, mean: 413.9727 SD: 0.56 mmu or: 1.35 ppm  
09:23:37: [7] 413.9716 amu, mean: 413.9725 SD: 0.66 mmu or: 1.61 ppm  
09:23:40: [8] 413.9716 amu, mean: 413.9724 SD: 0.71 mmu or: 1.70 ppm  
09:23:43: [9] 413.9715 amu, mean: 413.9723 SD: 0.72 mmu or: 1.75 ppm  
09:23:46: [10] 413.9719 amu, mean: 413.9723 SD: 0.69 mmu or: 1.67 ppm  
09:23:49: [11] 413.9715 amu, mean: 413.9722 SD: 0.70 mmu or: 1.70 ppm  
09:23:50:  
09:23:50: Stop requested. Please wait for procedure to finish.  
09:23:50:  
09:23:52:  
09:23:53: Peakmatching stopped

Signature

 2/10/24

# Resolution Check Report ( DFS SN: 3439 )

Date: 10 Jul 2024 20:35  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

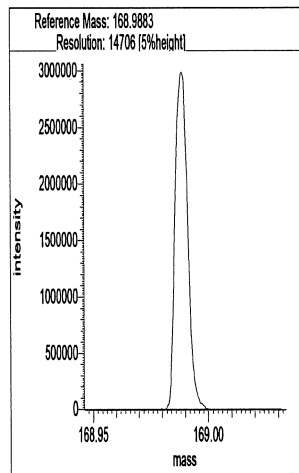
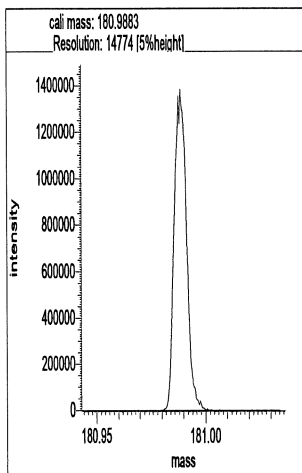
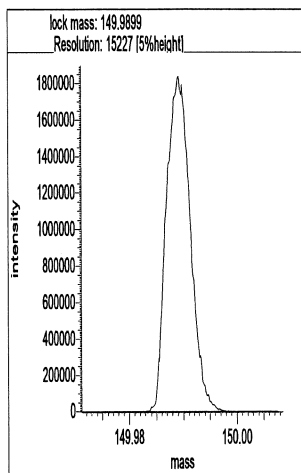
- d3240710r2

## Segment 1

Lock mass 149.9899 [m/z] Resolution: 15227 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 14774 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 14706 [5%height]

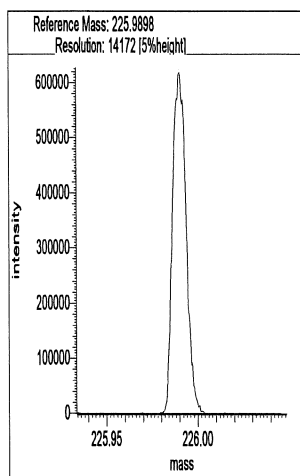
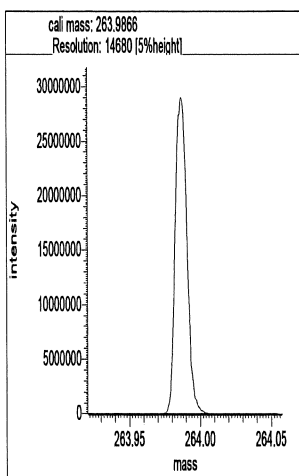
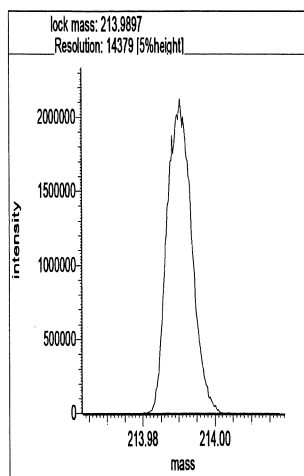


## Segment 2

Lock mass 213.9897 [m/z] Resolution: 14379 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 14680 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 14172 [5%height]

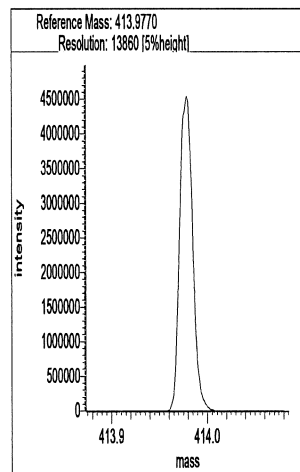
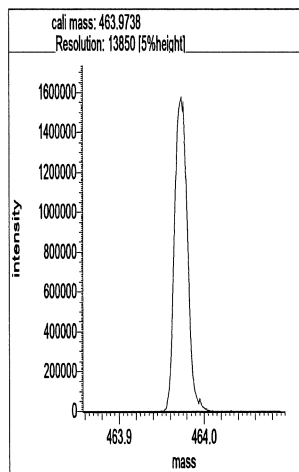
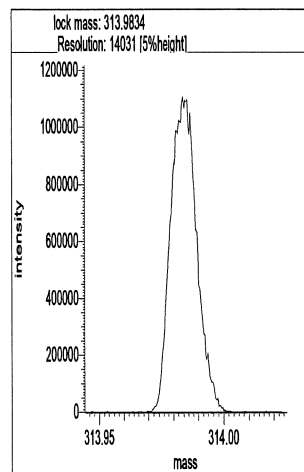


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 14031 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 13850 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 13860 [5%height]






## Reports

20:45:49: Peak matching procedure started  
20:45:49:  
20:45:50: Reference mass: 263.98656  
20:45:50: Sample mass: 414.0  
20:45:51:  
20:45:51: Finding reference mass  
20:45:52: Finding sample mass  
20:45:53:  
20:45:59: [1] 413.9708 amu, mean: 413.9708  
20:46:02: [2] 413.9707 amu, mean: 413.9708 SD: 0.08 mmu or: 0.18 ppm  
20:46:05: [3] 413.9702 amu, mean: 413.9706 SD: 0.35 mmu or: 0.85 ppm  
20:46:08: [4] 413.9699 amu, mean: 413.9704 SD: 0.44 mmu or: 1.06 ppm  
20:46:11: [5] 413.9697 amu, mean: 413.9703 SD: 0.50 mmu or: 1.20 ppm  
20:46:14: [6] 413.9692 amu, mean: 413.9701 SD: 0.64 mmu or: 1.54 ppm  
20:46:18: [7] 413.9697 amu, mean: 413.9700 SD: 0.60 mmu or: 1.45 ppm  
20:46:21: [8] 413.9695 amu, mean: 413.9700 SD: 0.59 mmu or: 1.42 ppm  
20:46:24: [9] 413.9694 amu, mean: 413.9699 SD: 0.58 mmu or: 1.41 ppm  
20:46:27: [10] 413.9698 amu, mean: 413.9699 SD: 0.55 mmu or: 1.33 ppm  
20:46:30: [11] 413.9700 amu, mean: 413.9699 SD: 0.52 mmu or: 1.26 ppm  
20:46:31:  
20:46:31: Stop requested. Please wait for procedure to finish.  
20:46:31:  
20:46:33:  
20:46:34: Peakmatching stopped

Signature

 7/11/24

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\d3240710c1a.d  
 Lims ID: CCV  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 10-Jul-2024 10:12:00 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Sublist: chrom-EPA\_23\_\_PAH\*sub1  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAL ICAL  
 Last Update: 10-Jul-2024 11:43:58 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1602

First Level Reviewer: F9EE

Date: 10-Jul-2024 11:41:09

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:21	38122386		3.3746	76.4	76.4	0.0157	0.0157	76.36	
Naphthalene	11:21	85441097		1.2893	173.8	173.8	0.0861	0.0861	86.92	
D 13C6-2-Methylnaphthalene	13:44	18866926		1.6031	79.6	79.6	0.0179	0.0179	79.55	
2-Methylnaphthalene	13:44	46366506		1.2786	192.2	192.2	0.0407	0.0407	96.11	
D 13C6-Acenaphthylene	16:34	25736514		1.6520	105.3	105.3	0.0215	0.0215	105	
Acenaphthylene	16:35	65299631		2.3661	201.0	201.0	0.0520	0.0520	100	
* Acenaphthene-d10	17:08	14794223		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:15	13733055		0.9792	94.8	94.8	0.0360	0.0360	94.80	
Acenaphthene	17:16	31890488		1.2697	182.9	182.9	0.0603	0.0603	91.45	
D 13C6-Fluorene	19:31	14033398		0.8898	106.6	106.6	0.0343	0.0343	107	
Fluorene	19:32	35877551		1.2532	204.0	204.0	0.0804	0.0804	102	
D 13C6-Phenanthrene	24:51	21525055		0.5724	102.4	102.4	0.0329	0.0329	102	
Phenanthrene	24:51	47975886		1.1044	201.8	201.8	0.1505	0.1505	101	
\$ Anthracin-d10	25:04	16721715		0.4257	107.0	107.0	0.0256	0.0256	107	
D 13C6-Anthracene	25:10	16675015		0.4523	100.4	100.4	0.0416	0.0416	100	
Anthracene	25:11	46608252		1.3586	205.7	205.7	0.1586	0.1586	103	
D 13C6-Fluoranthrene	33:33	43867809		1.1994	99.6	99.6	0.0261	0.0261	99.61	
Fluoranthene	33:33	95801650		1.1513	189.7	189.7	0.0609	0.0609	94.84	
* Pyrene-d10	35:05	36717334		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:13	48420161		1.3512	97.6	97.6	0.0330	0.0330	97.60	
Pyrene	35:14	99078119		1.0652	192.1	192.1	0.0634	0.0634	96.05	
\$ 13C6-Benzo(c)fluorene	38:55	21777417		0.5136	115.5	115.5	0.0281	0.0281	115	
D 13C6-Benzo(a)anthracene	45:44	52401700		1.5189	109.3	109.3	0.0128	0.0128	109	
Benzo[a]anthracene	45:44	125003998		0.9739	245.0	245.0	0.0459	0.0459	122	
D 13C6-Chrysene	46:00	50892018		1.6287	99.0	99.0	0.0119	0.0119	99.02	
Chrysene	46:00	121917754		0.9815	244.1	244.1	0.0470	0.0470	122	
D 13C6-Benzo(b)fluoranthene	54:24	45368611		1.4621	98.3	98.3	0.006301	0.006301	98.33	
Benzo[b]fluoranthene	54:24	98697410		1.1249	193.4	193.4	0.0133	0.0133	96.69	
\$ 13C12-Benzo(j)fluoranthene	54:26	40039801		1.3558	93.6	93.6	0.007972	0.007972	93.58	
Benzo[k]fluoranthene	54:33	102605239		1.1271	186.7	186.7	0.0118	0.0118	93.34	
D 13C6-Benzo(k)fluoranthene	54:33	48767967		1.7507	88.3	88.3	0.005262	0.005262	88.27	
* Benzo(e)pyrene-d12	55:19	31556909		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:24	95577931		1.0013	193.5	193.5	0.0111	0.0111	96.75	
D 13C4-Benzo(e)pyrene	55:24	49330542		1.6368	95.5	95.5	0.009194	0.009194	95.50	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:33	48508595		1.5508	99.1	99.1	0.009704	0.009704	99.12	
Benzo[a]pyrene	55:33	103797281		1.1130	192.2	192.2	0.0103	0.0103	96.12	
D Perylene-d12	55:43	41967684		1.1917	111.6	111.6	0.007730	0.007730	112	
Perylene	55:47	111764935		1.4307	186.1	186.1	0.008880	0.008880	93.07	
D 13C6-Indeno(1,2,3-cd)pyrene	57:52	41707517		1.0218	129.3	129.3	0.0137	0.0137	129	
Indeno[1,2,3-cd]pyrene	57:53	95390634		1.1249	203.3	203.3	0.009482	0.009482	102	
D 13C6-Dibenz(a,h)anthracene	57:57	41431838		1.0553	124.4	124.4	0.0118	0.0118	124	
Dibenz(a,h)anthracene	57:57	94731239		1.1314	202.1	202.1	0.007039	0.007039	101	
D 13C12-Benzo(ghi)perylene	58:20	41273411		1.2749	102.6	102.6	0.003448	0.003448	103	
Benzo[g,h,i]perylene	58:20	103356891		1.2838	195.1	195.1	0.008373	0.008373	97.53	

## QC Flag Legend

Processing Flags

## Reagents:

61HRPAHCS5a\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\d3240710c1a.d  
Lims ID: CCV  
Client ID:  
Sample Type: CCV  
Inject. Date: 10-Jul-2024 10:12:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 10-Jul-2024 11:43:58 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1602

First Level Reviewer: F9EE

Date: 10-Jul-2024 11:41:09

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:21	11:21	0	0.662	38122386	13232180	1182	2955	11195		
Naphthalene											
128.0626	11:21	11:21	0	1.000	85441097	29927635	5876	14690	5093		
13C6-2-Methylnaphthalene											
148.0984	13:44	13:44	0	0.801	18866926	9423729	640	1600	14725		
2-Methylnaphthalene											
142.0783	13:44	13:44	0	1.000	46366506	22707411	1961	4902	11580		
13C6-Acenaphthylene											
158.0828	16:34	16:34	0	0.967	25736514	10024371	791	1977	12673		E
Acenaphthylene											
152.0626	16:35	16:35	0	1.000	65299631	25431242	2421	6052	10504		
Acenaphthene-d10											
164.1404	17:08	17:08	0		14794223	5565744	400	1000	13914		
13C6-Acenaphthene											
160.0984	17:15	17:15	0	1.007	13733055	4914599	784	1960	6269		
Acenaphthene											
154.0783	17:16	17:16	0	1.001	31890488	12048762	1506	3765	8001		
13C6-Fluorene											
172.0984	19:31	19:31	0	1.139	14033398	4402429	680	1700	6474		E
Fluorene											
166.0783	19:32	19:32	0	1.001	35877551	11922759	1775	4437	6717		
13C6-Phenanthrene											
184.0984	24:51	24:51	0	0.708	21525055	5427367	571	1427	9505		E
Phenanthrene											
178.0783	24:51	24:51	0	1.000	47975886	12195234	3609	9022	3379		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:04	25:04	0	0.714	16721715	4140082	331	827	12508		
13C6-Anthracene											
184.0984	25:10	25:10	0	0.717	16675015	4186358	571	1427	7332		E
Anthracene											
178.0783	25:11	25:11	0	1.000	46608252	11909259	3609	9022	3300		
13C6-Fluoranthrene											
208.0984	33:33	33:33	0	0.956	43867809	9424764	948	2370	9942		
Fluoranthene											
202.0783	33:33	33:33	0	1.000	95801650	20651117	2645	6612	7808		
Pyrene-d10											
212.1404	35:05	35:05	0		36717334	7576277	348	870	21771		
13C3-Pyrene											
205.0883	35:13	35:13	0	1.004	48420161	9798035	1351	3377	7252		
Pyrene											
202.0783	35:14	35:14	0	1.000	99078119	20349961	2645	6612	7694		
13C6-Benzo(c)fluorene											
222.1134	38:55	38:55	0	0.704	21777417	4327526	438	1095	9880		
13C6-Benzo(a)anthracene											
234.1140	45:44	45:44	0	1.303	52401700	9974583	851	2127	11721		E
Benzo[a]anthracene											
228.0939	45:44	45:44	0	1.000	125003998	24853427	1784	4460	13931		
13C6-Chrysene											
234.1140	46:00	46:00	0	1.311	50892018	9667413	851	2127	11360		
Chrysene											
228.0939	46:00	46:00	0	1.000	121917754	24194838	1784	4460	13562		
13C6-Benzo(b)fluoranthene											
258.1140	54:24	54:24	0	0.984	45368611	12947824	404	1010	32049		
Benzo[b]fluoranthene											
252.0939	54:24	54:24	0	1.000	98697410	27511369	777	1942	35407		
13C12-Benzo(j)fluoranthene											
264.1336	54:26	54:26	0	0.984	40039801	11419330	474	1185	24091		
Benzo[k]fluoranthene											
252.0939	54:33	54:33	0	1.000	102605239	30325321	777	1942	39029		
13C6-Benzo(k)fluoranthene											
258.1140	54:33	54:33	0	0.986	48767967	14619760	404	1010	36188		
Benzo(e)pyrene-d12											
264.1692	55:19	55:19	0		31556909	10963923	404	1010	27138		
Benzo[e]pyrene											
252.0939	55:24	55:24	0	1.000	95577931	33176368	777	1942	42698		
13C4-Benzo(e)pyrene											
256.1073	55:24	55:24	0	1.002	49330542	17416257	660	1650	26388		
13C4-Benzo(a)pyrene											
256.1073	55:33	55:33	0	1.004	48508595	16979456	660	1650	25726		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:33	55:33	0	1.000	103797281	38194688	777	1942	49157		
Perylene-d12											
264.1692	55:43	55:43	0	1.007	41967684	15285812	404	1010	37836		E
Perylene											
252.0939	55:47	55:47	0	1.001	111764935	39870629	777	1942	51314		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:52	57:52	0	1.046	41707517	15065679	613	1532	24577		E
Indeno[1,2,3-cd]pyrene											
276.0939	57:53	57:53	0	1.000	95390634	35817893	643	1607	55704		
13C6-Dibenz(a,h)anthracene											
284.1296	57:57	57:57	0	1.048	41431838	16450234	547	1367	30074		E
Dibenz(a,h)anthracene											
278.1096	57:57	57:57	0	1.000	94731239	37090456	524	1310	70783		
13C12-Benzo(ghi)perylene											
288.1342	58:20	58:20	0	1.055	41273411	14950897	193	482	77466		E
Benzo[g,h,i]perylene											
276.0939	58:20	58:20	0	1.000	103356891	38812247	643	1607	60361		

### QC Flag Legend

Processing Flags

### Reagents:

61HRPAHCS5a\_00002

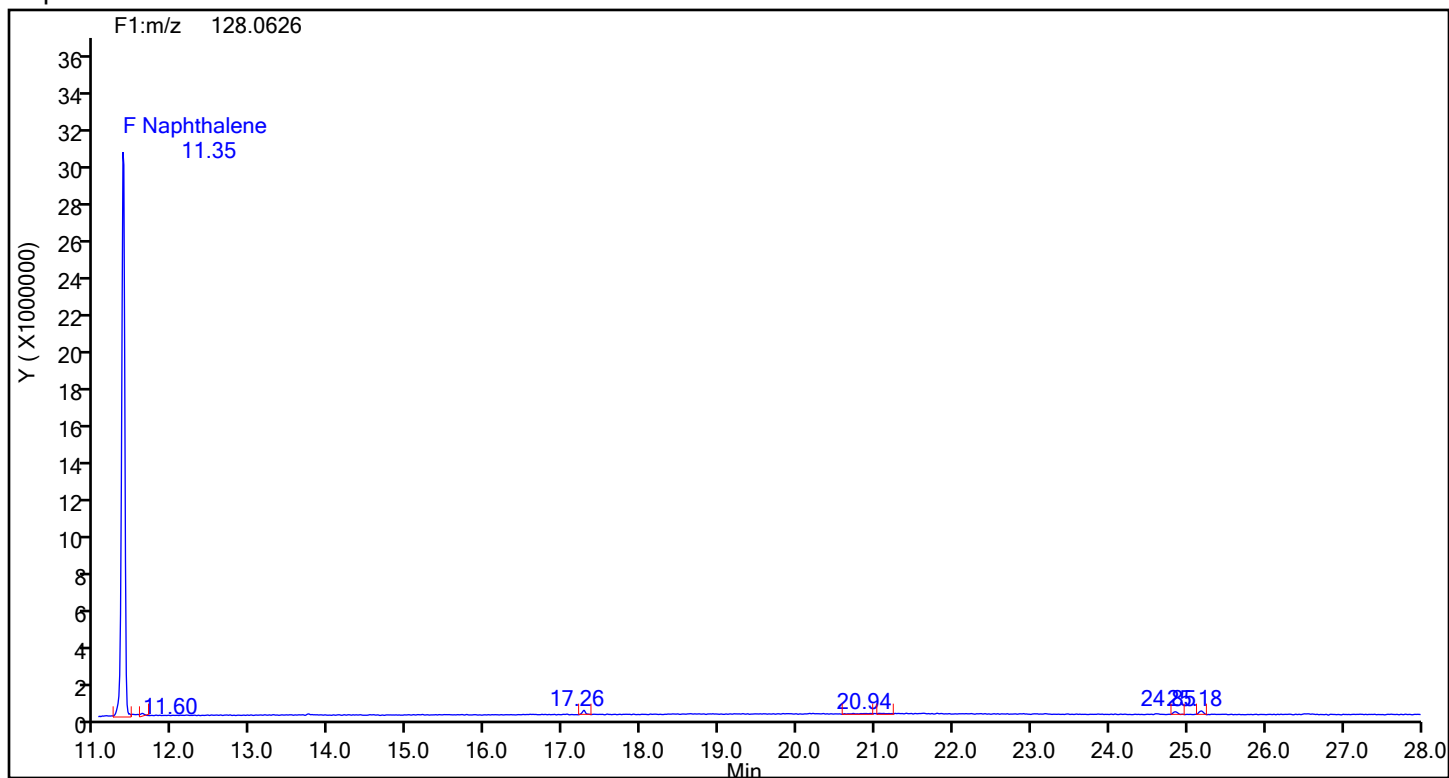
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Units: uL

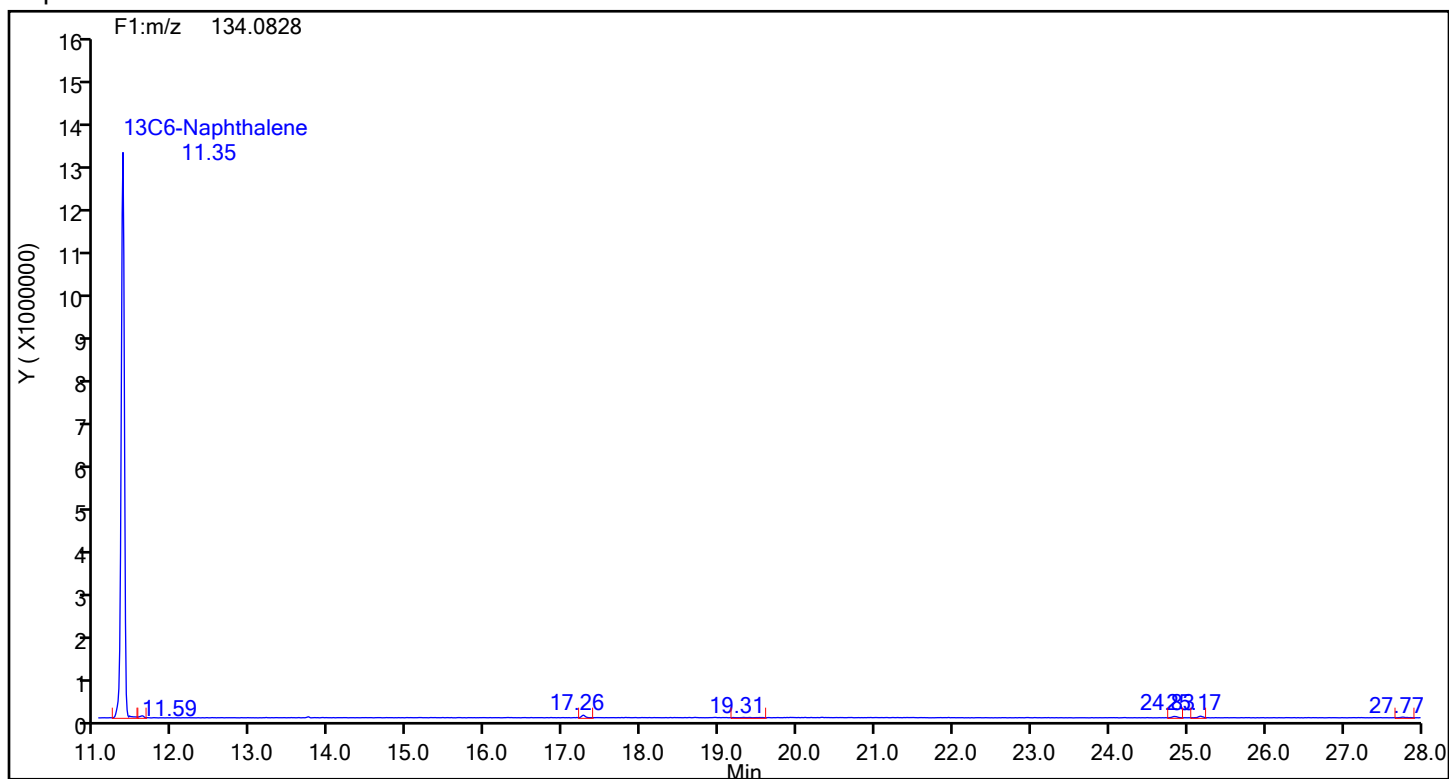
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



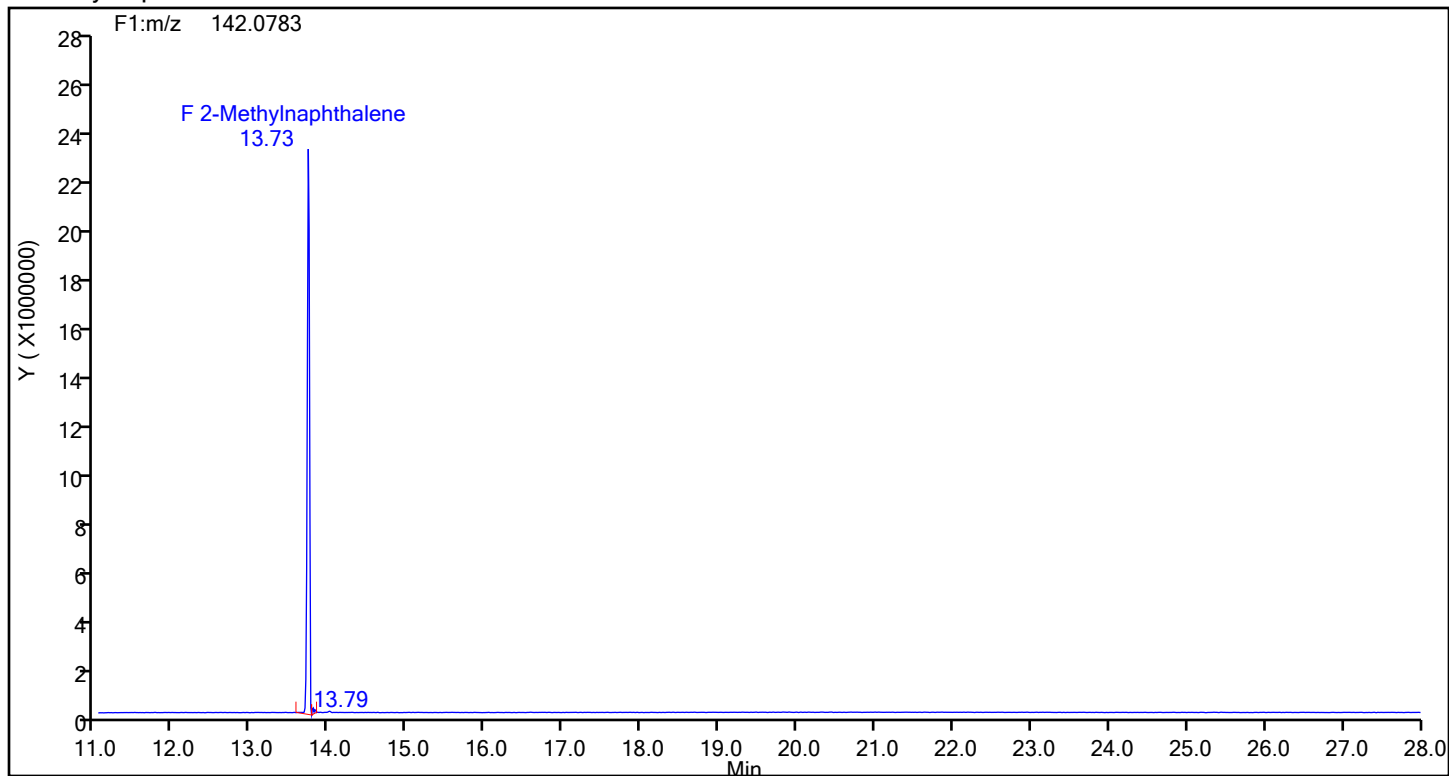
## Naphthalene Standards



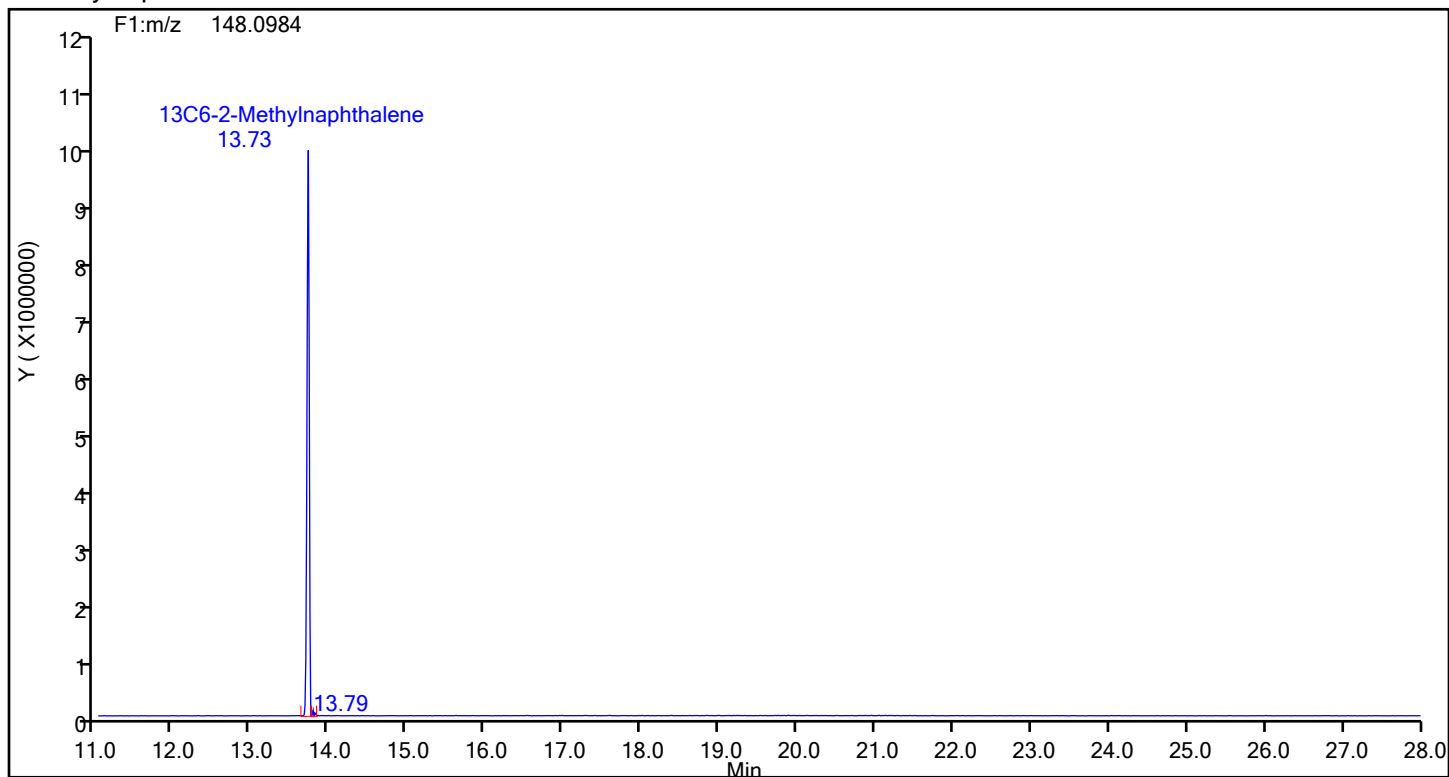
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



## 2-Methylnaphthalene Standards

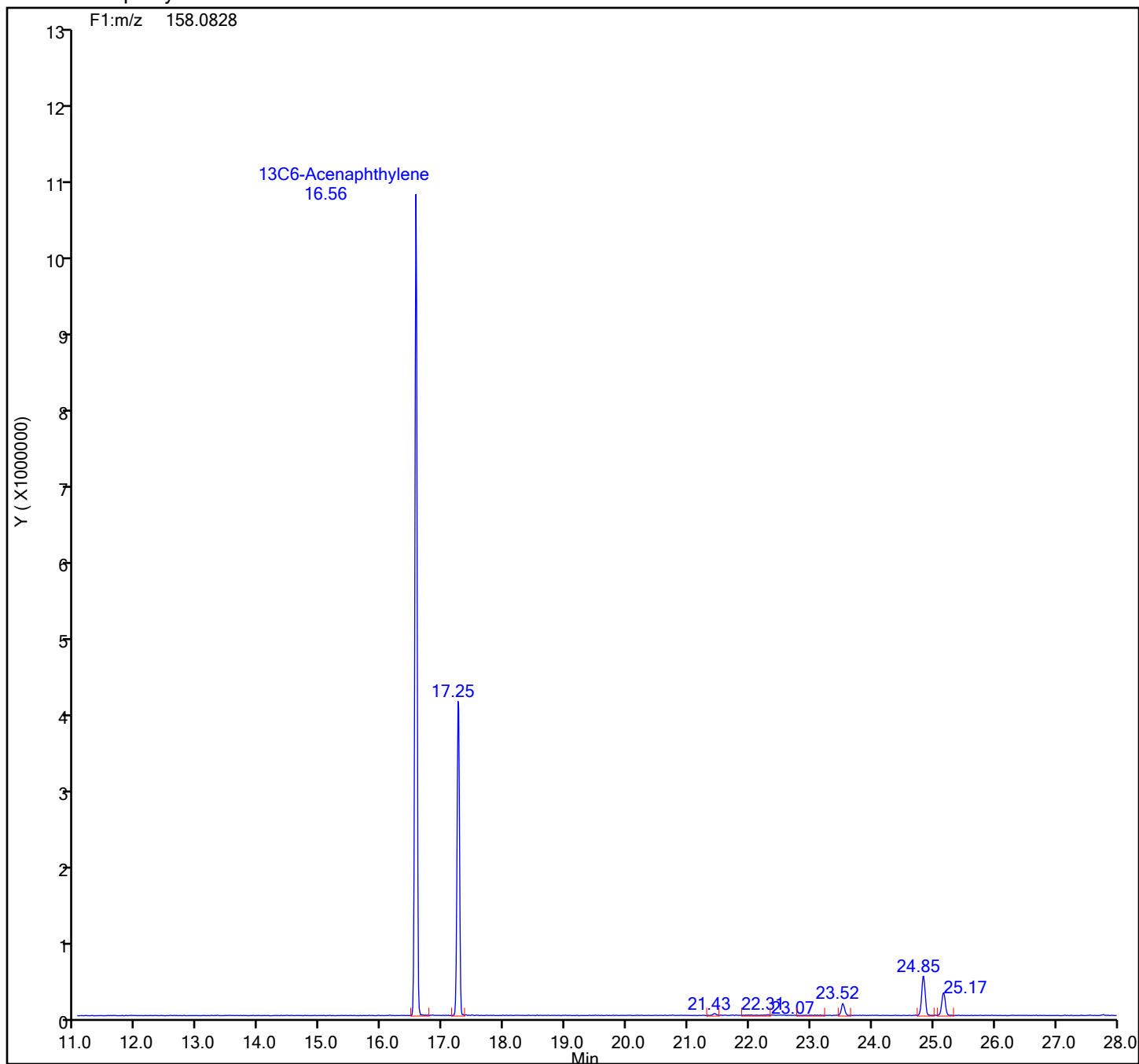




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Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

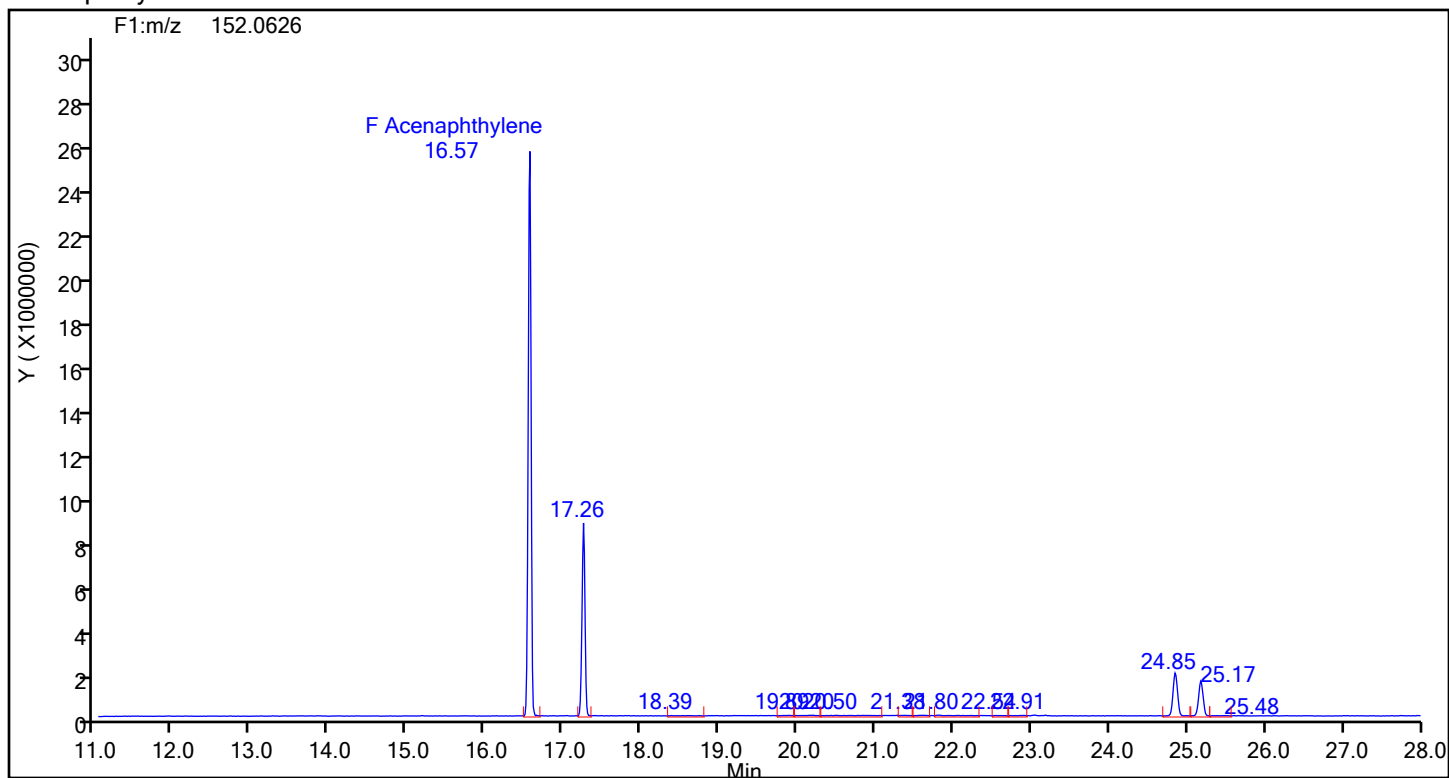
## 13C6-Acenaphthylene Standards



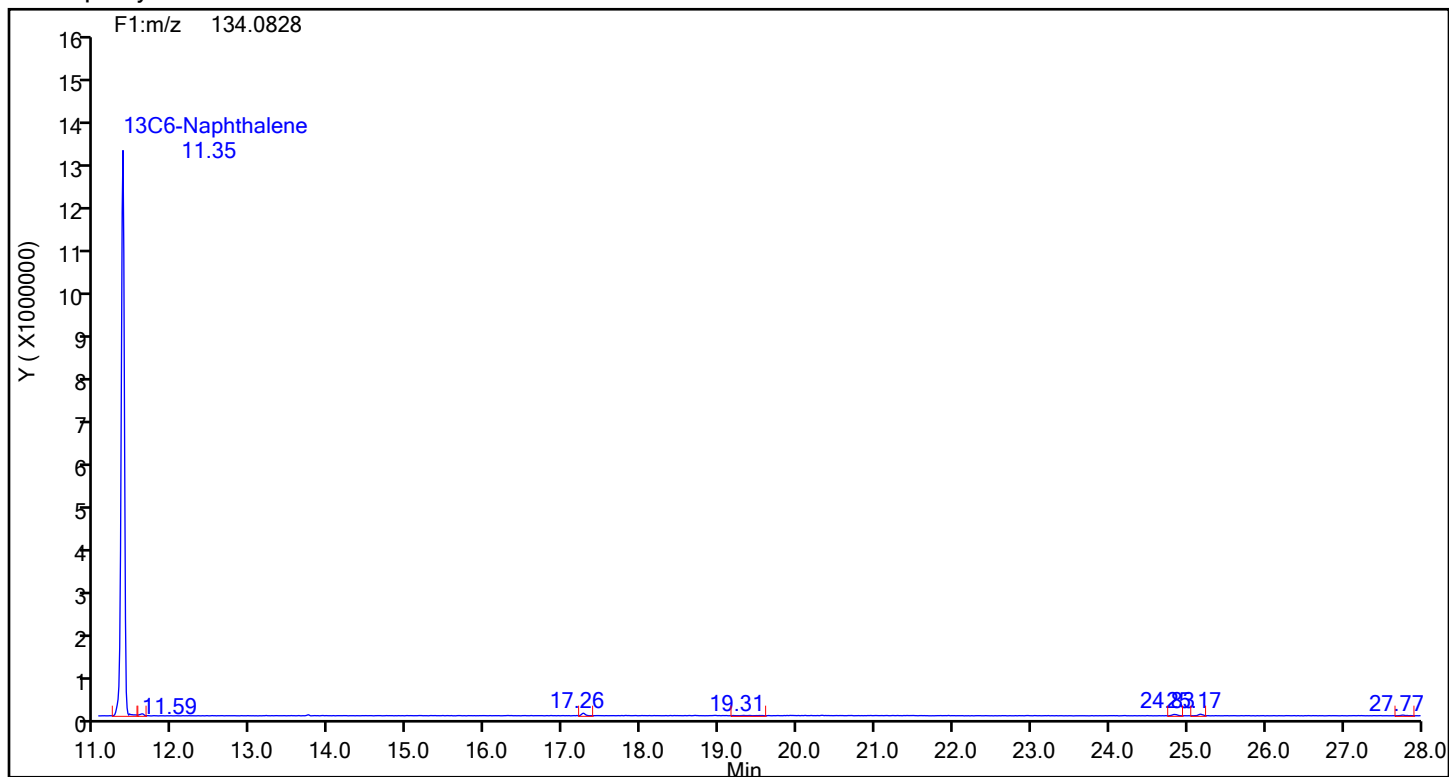
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



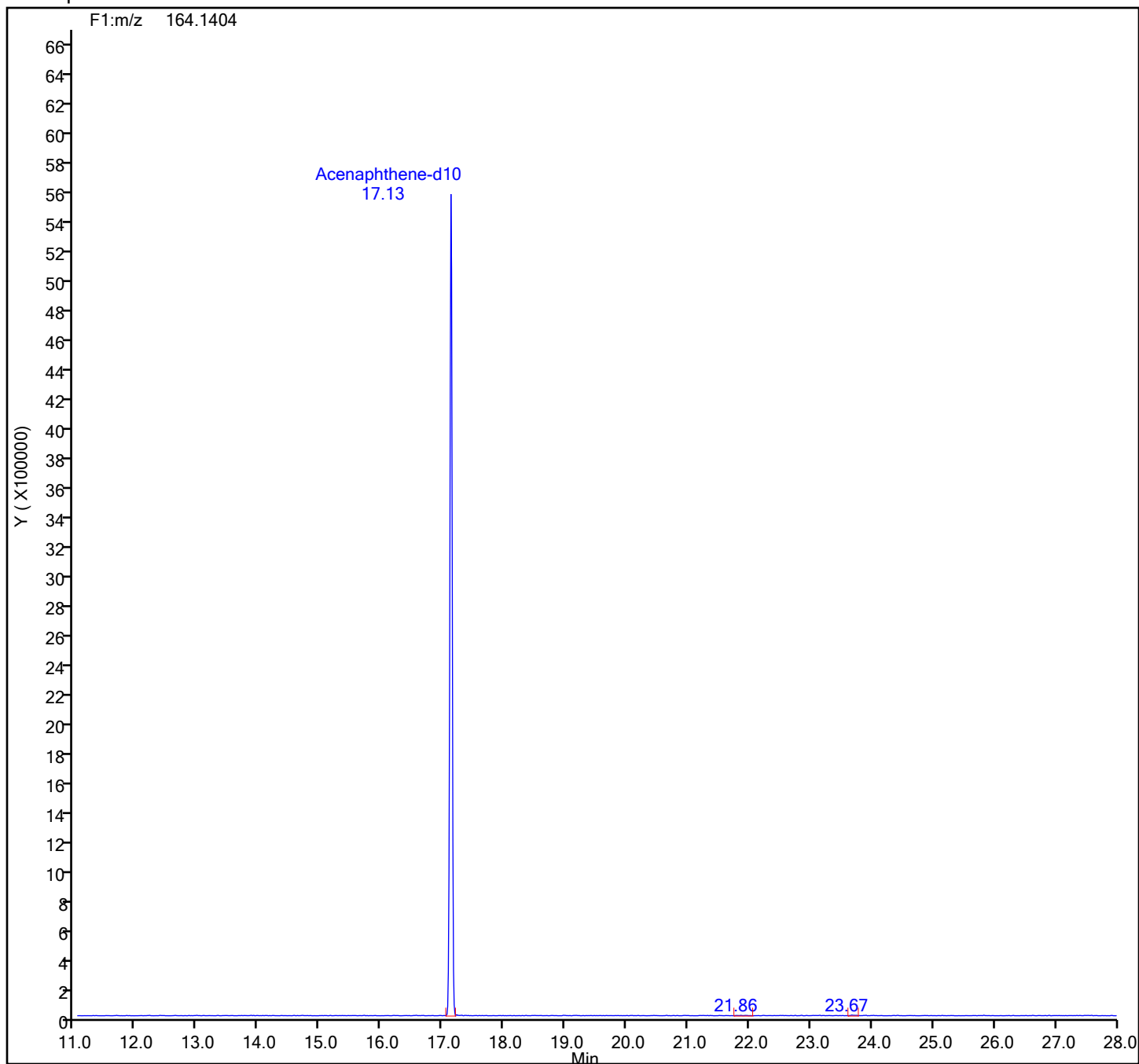
## Acenaphthylene Standards



## Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

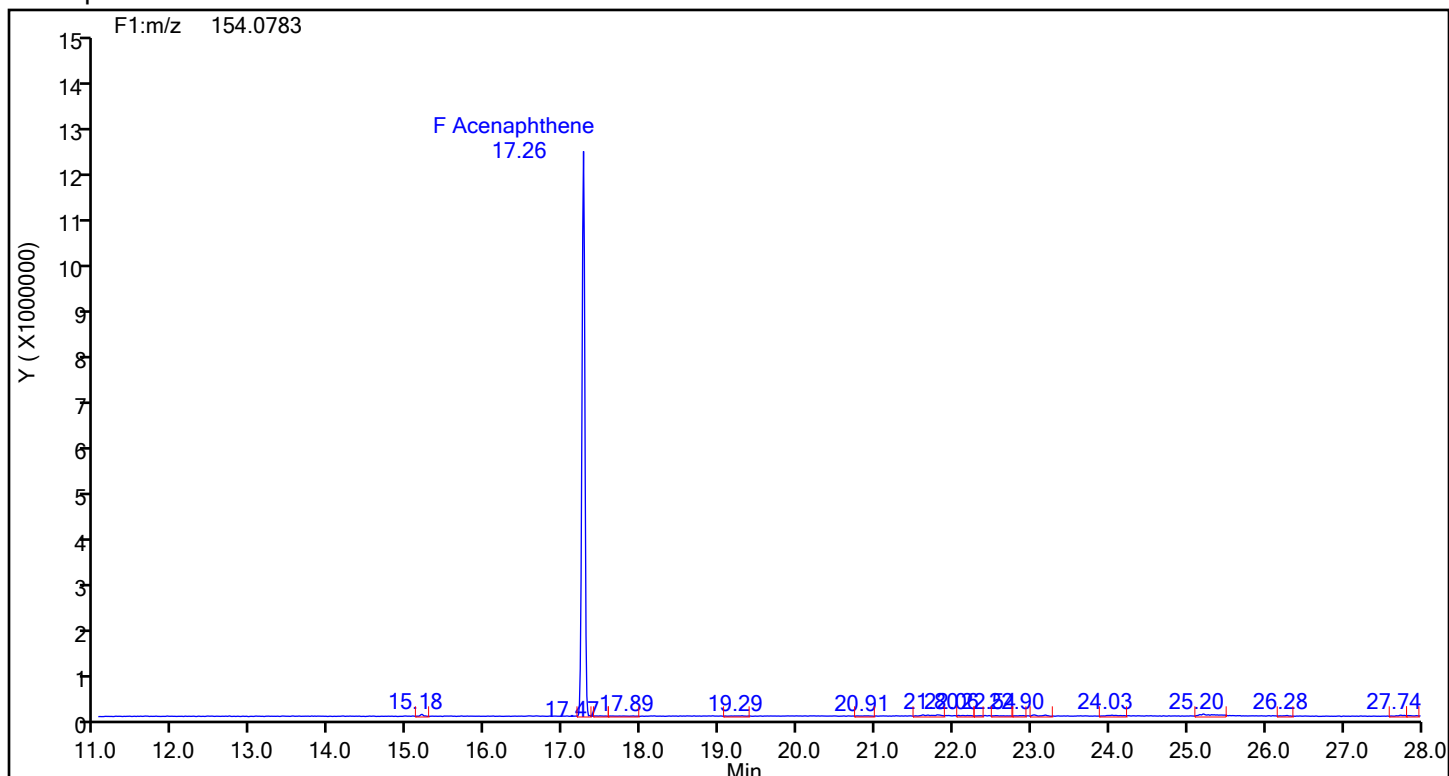
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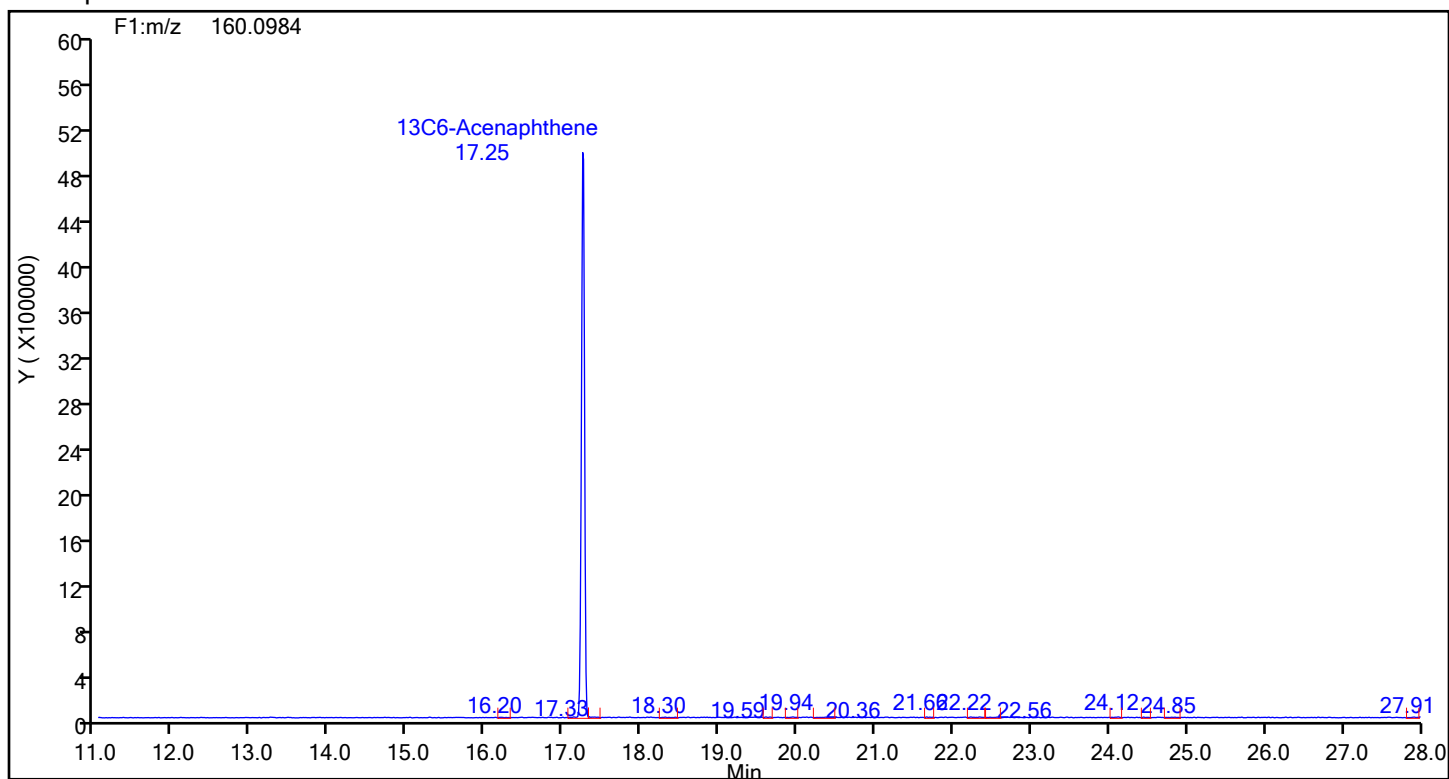
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## Acenaphthene



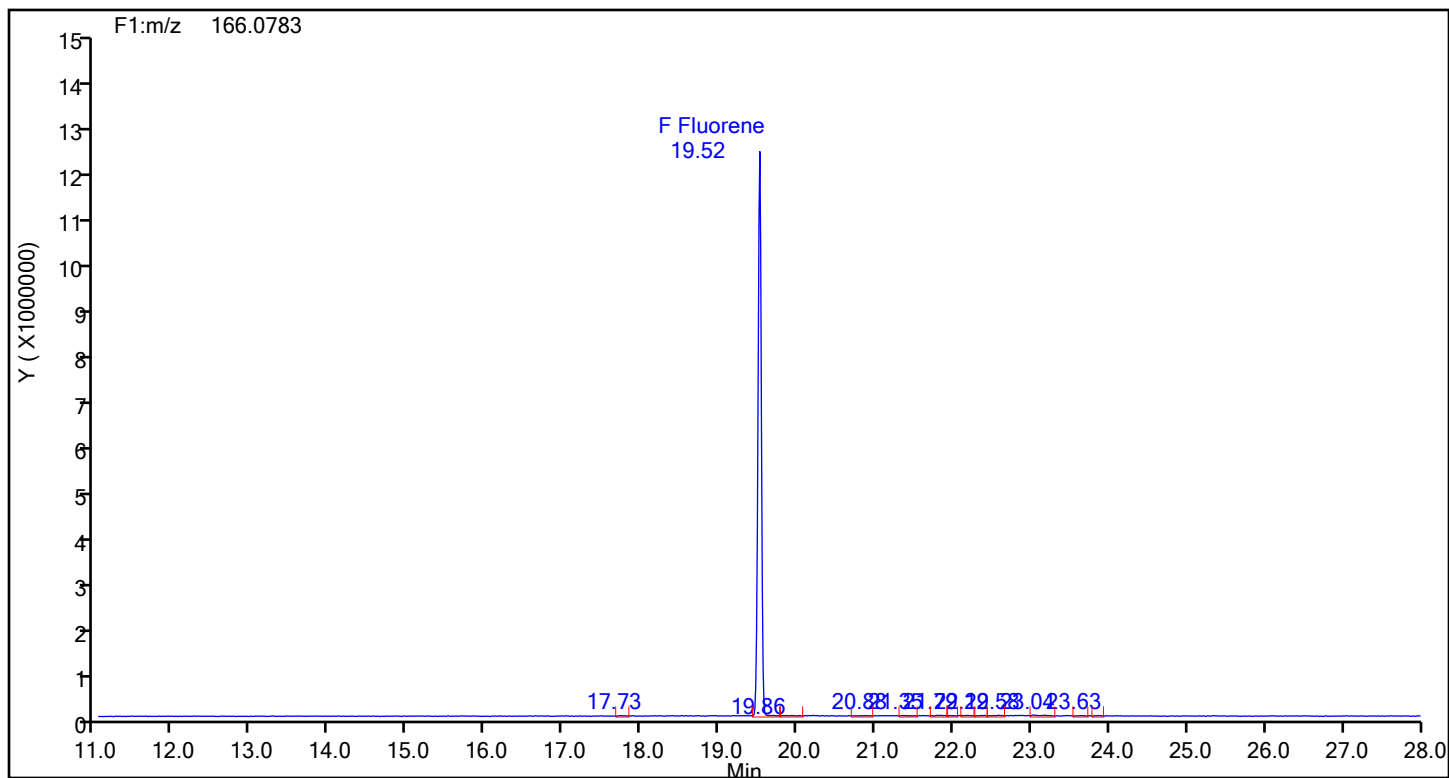
## Acenaphthene Standards



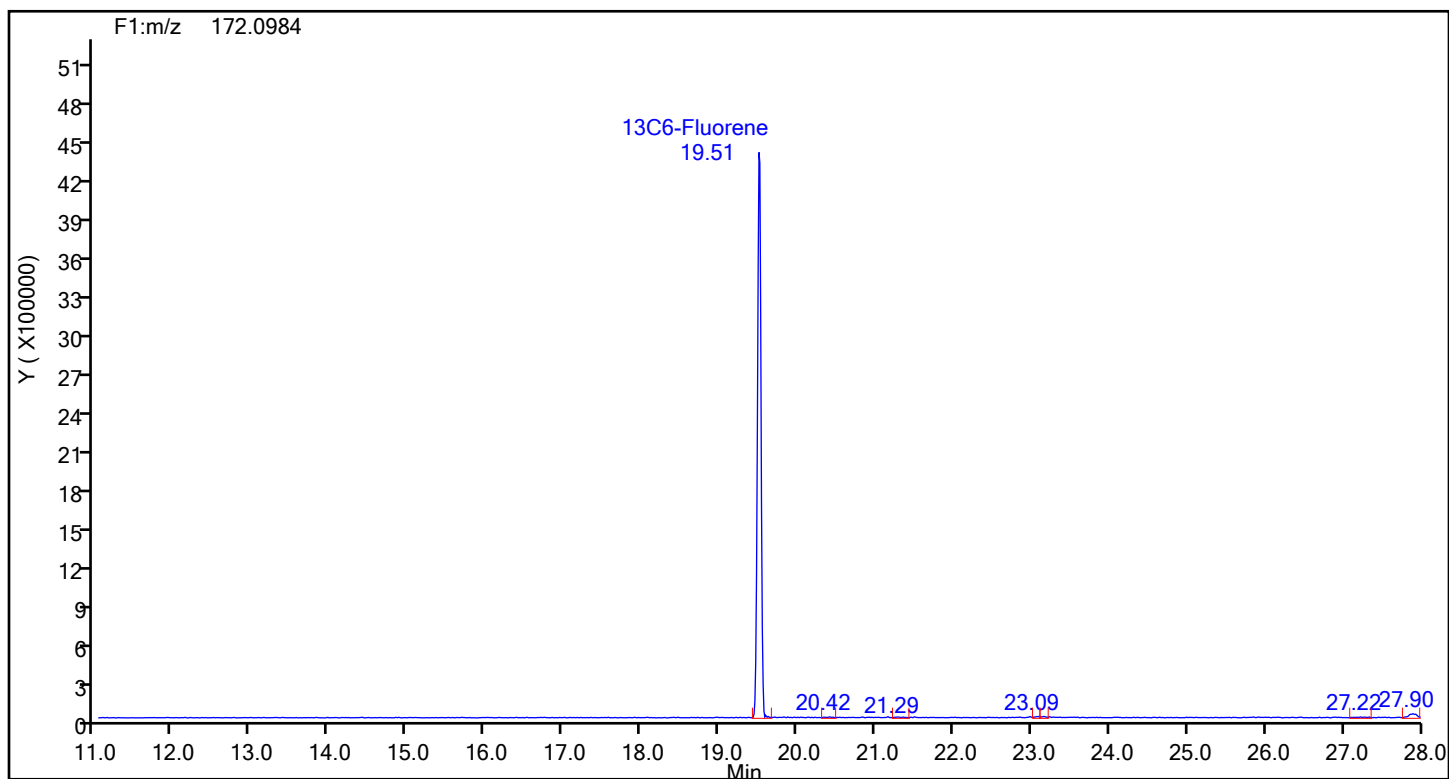
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene

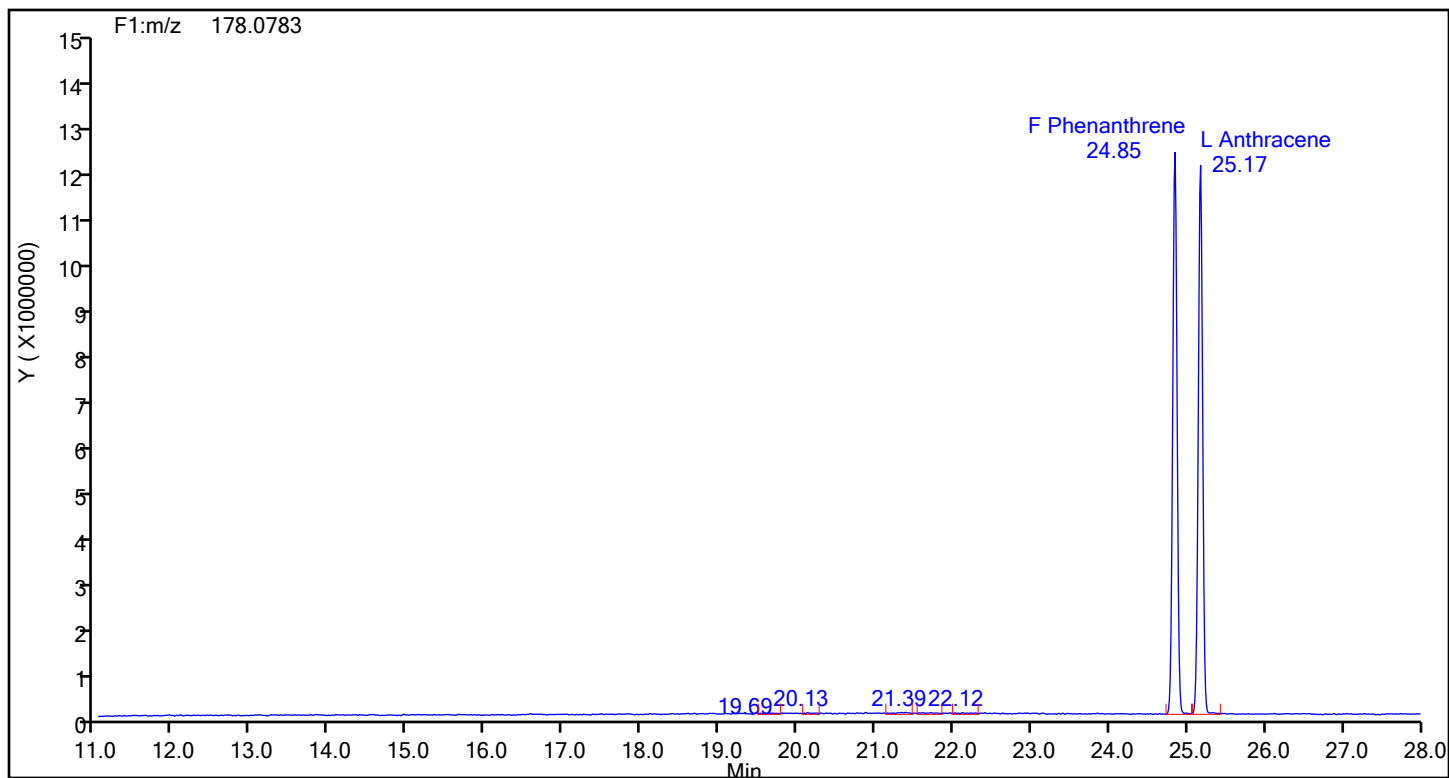


## Fluorene Standards

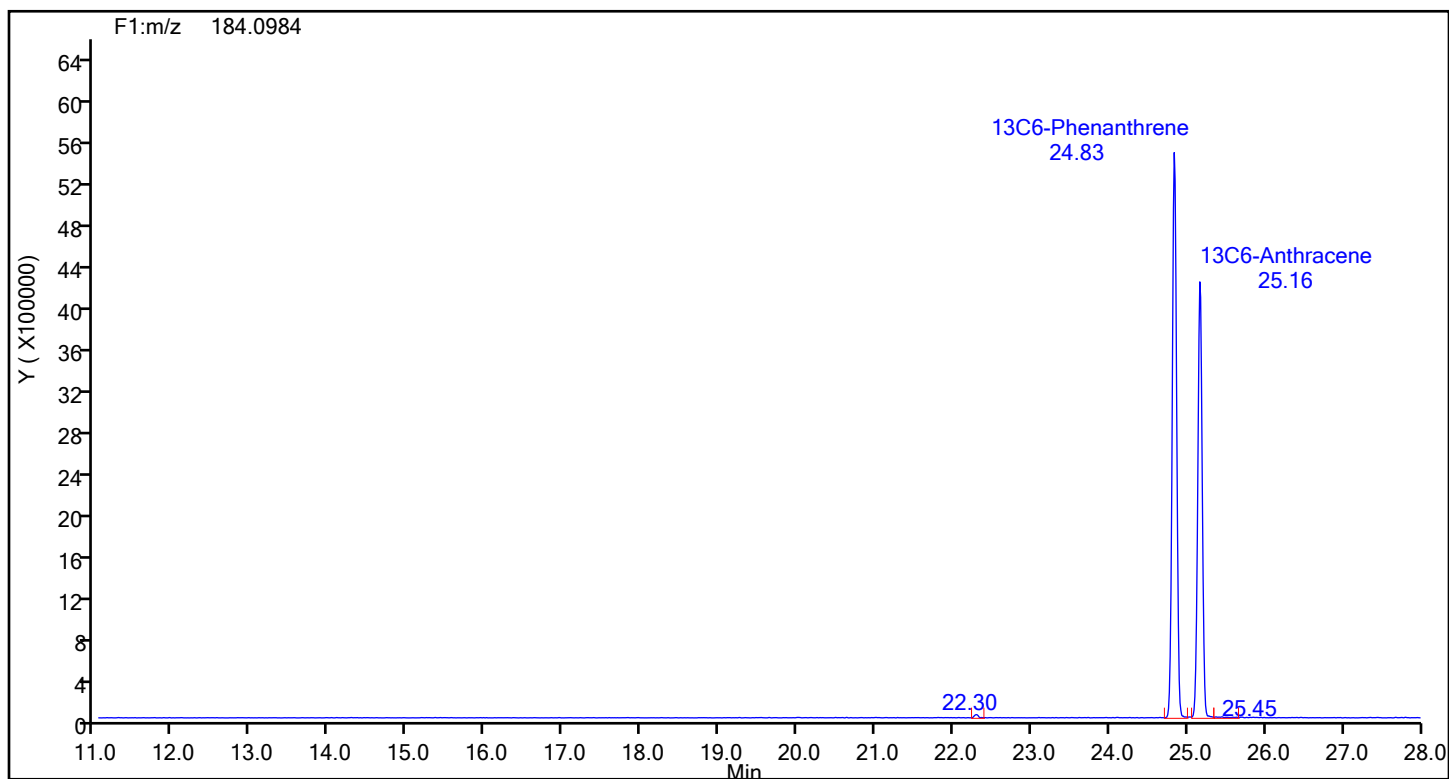


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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene

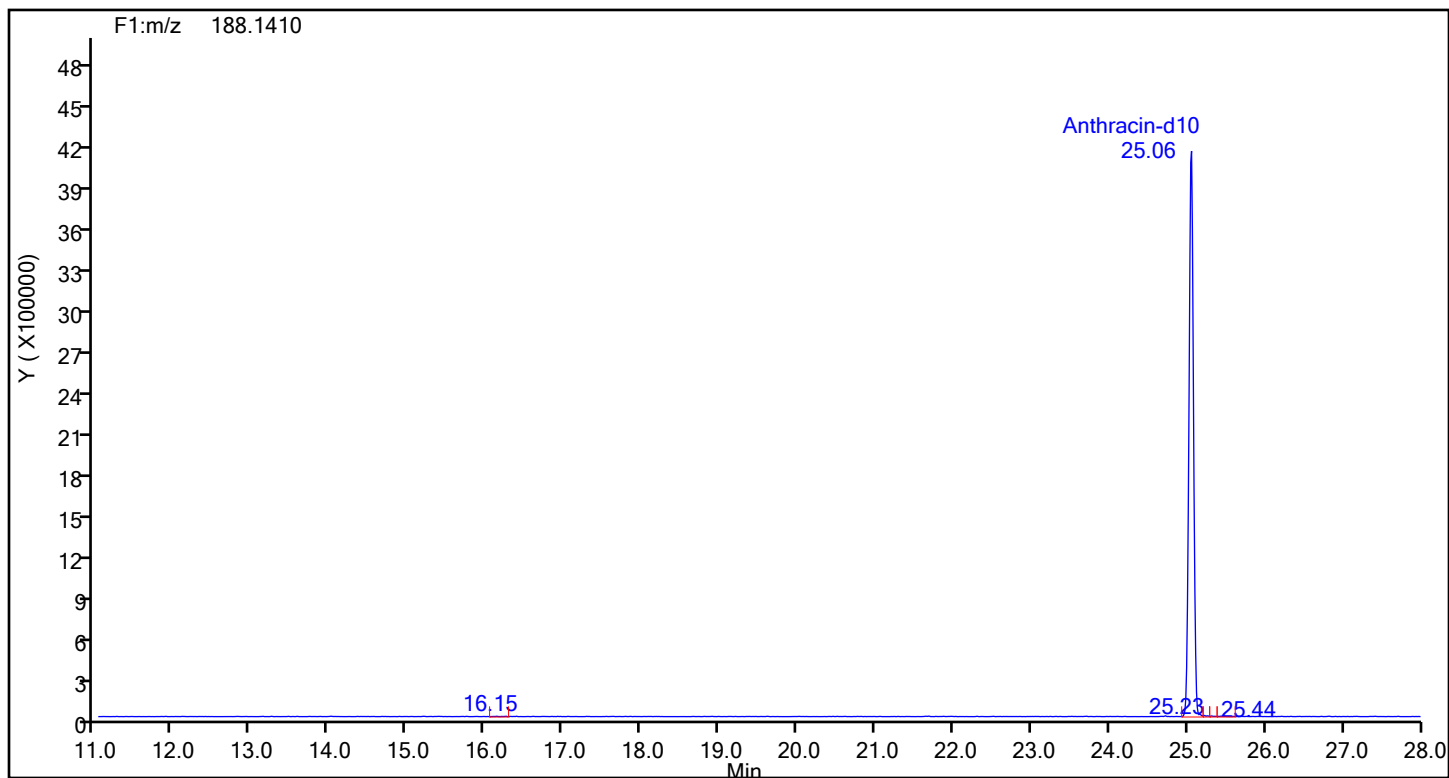


## Phenanthrene Standards

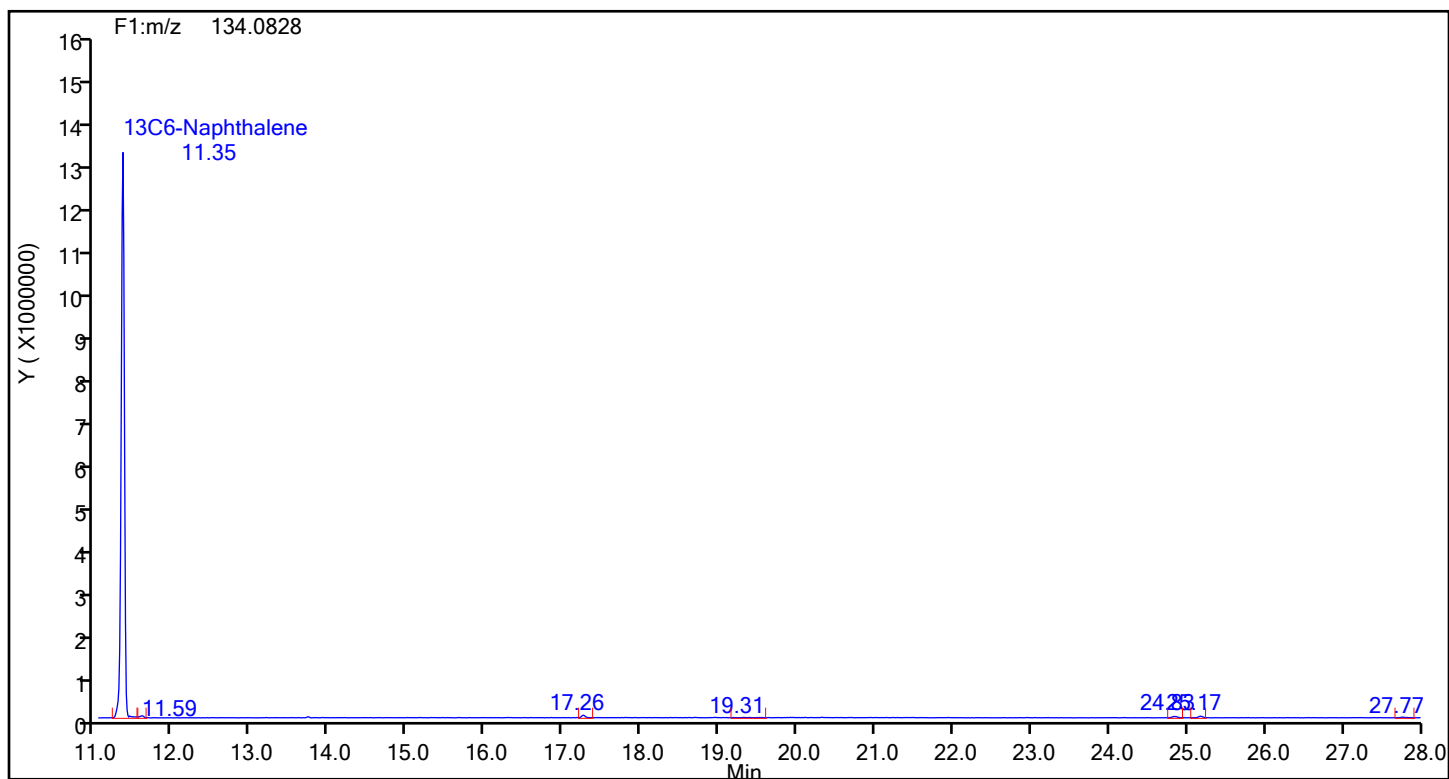


## Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

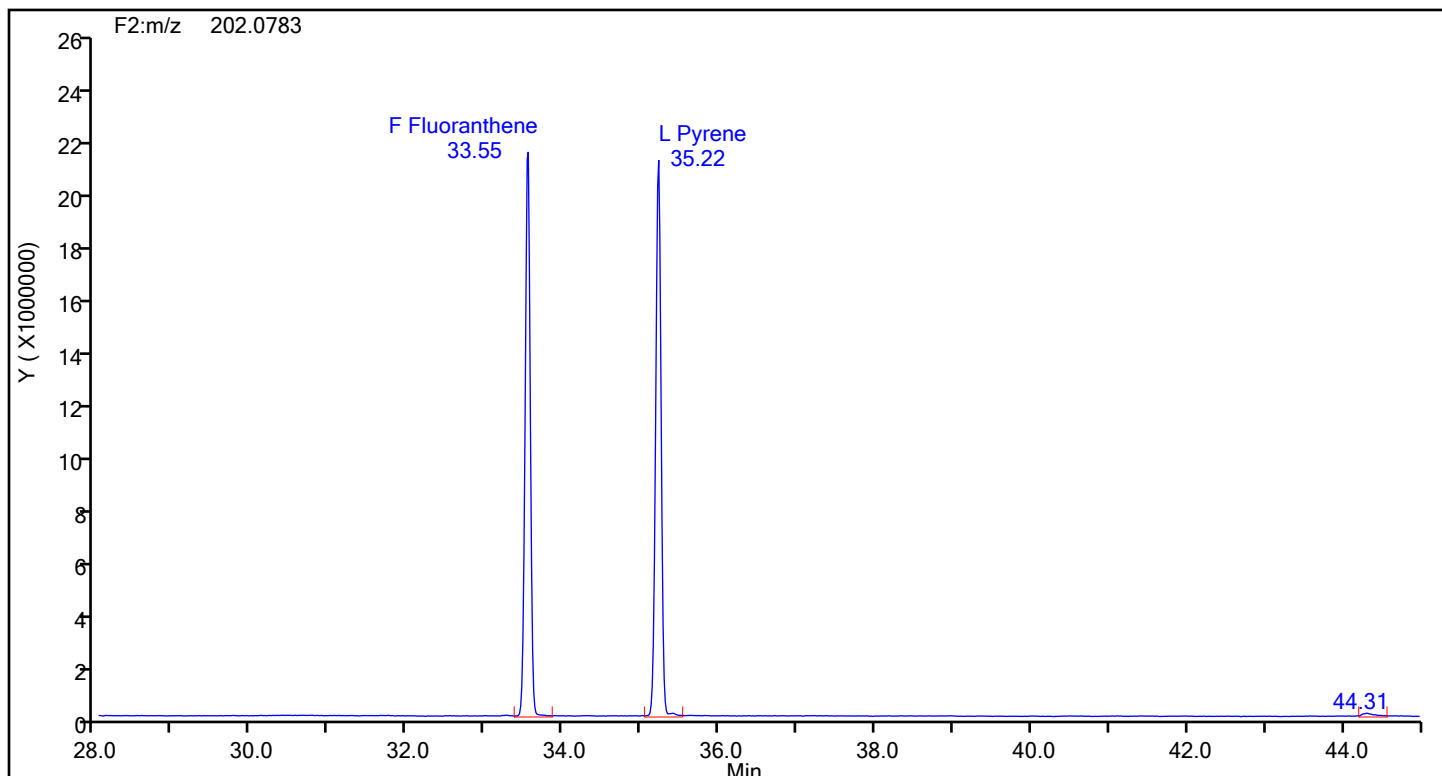


## Anthracin-d10 Standards

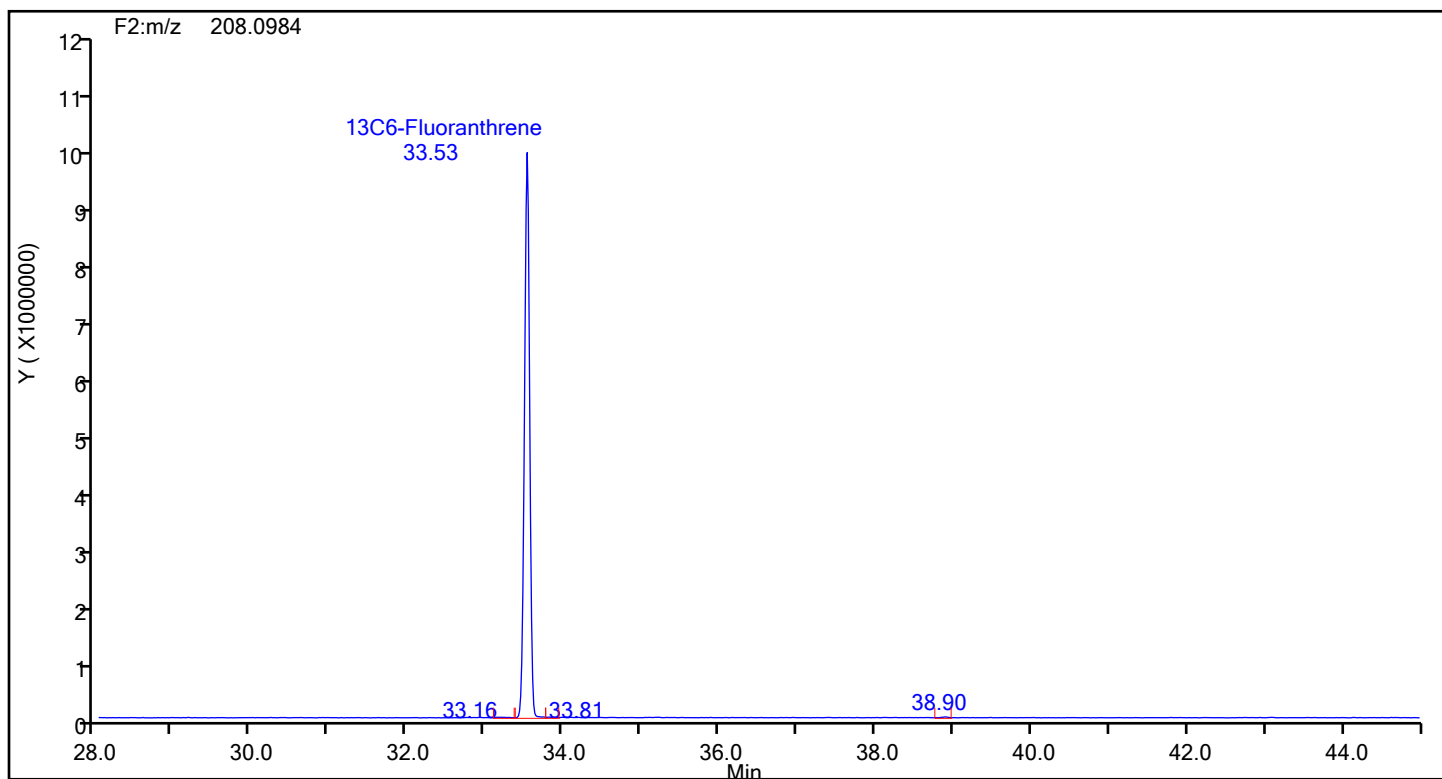


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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



## Fluoranthene Standards

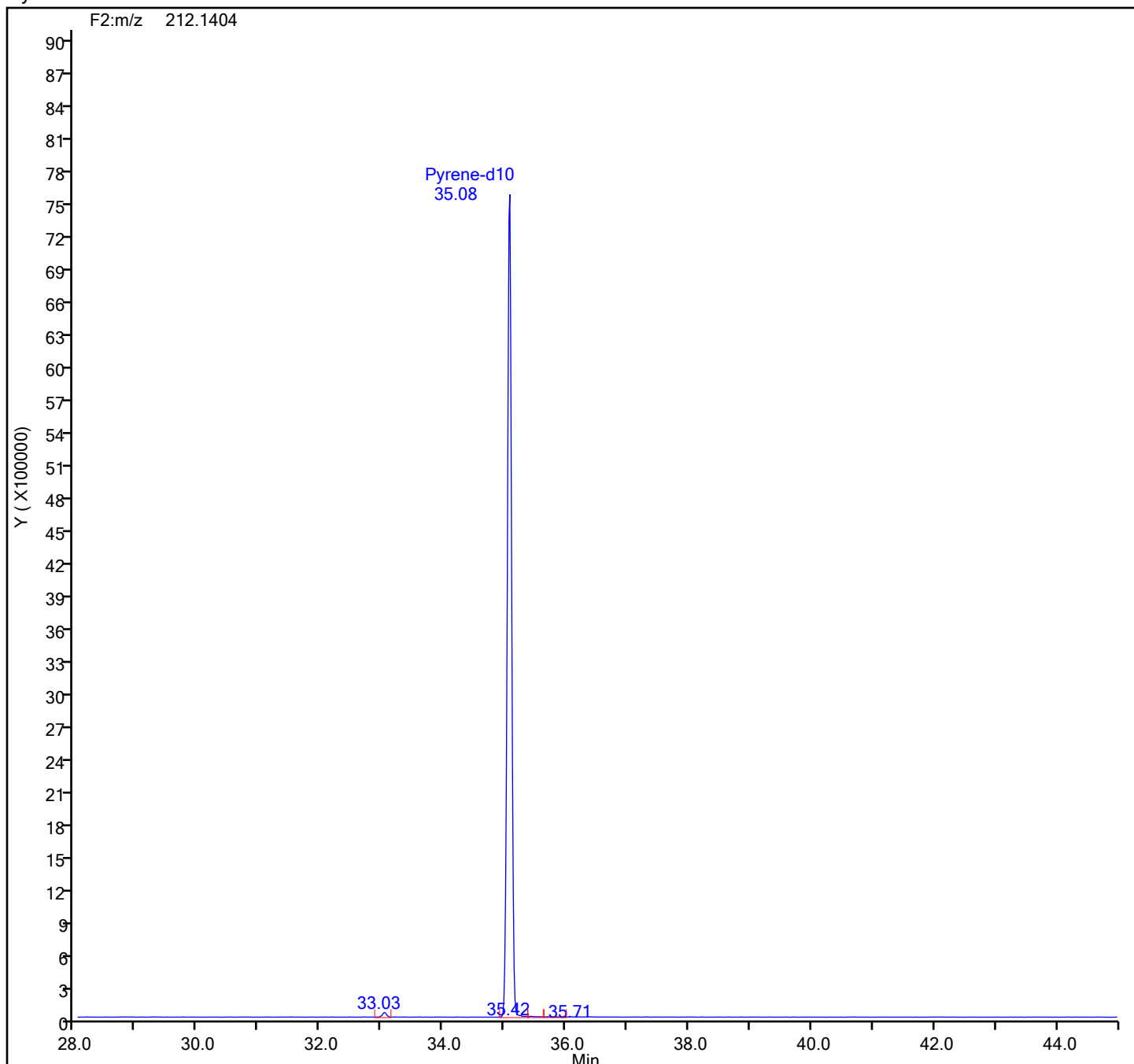




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Client ID:  
Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

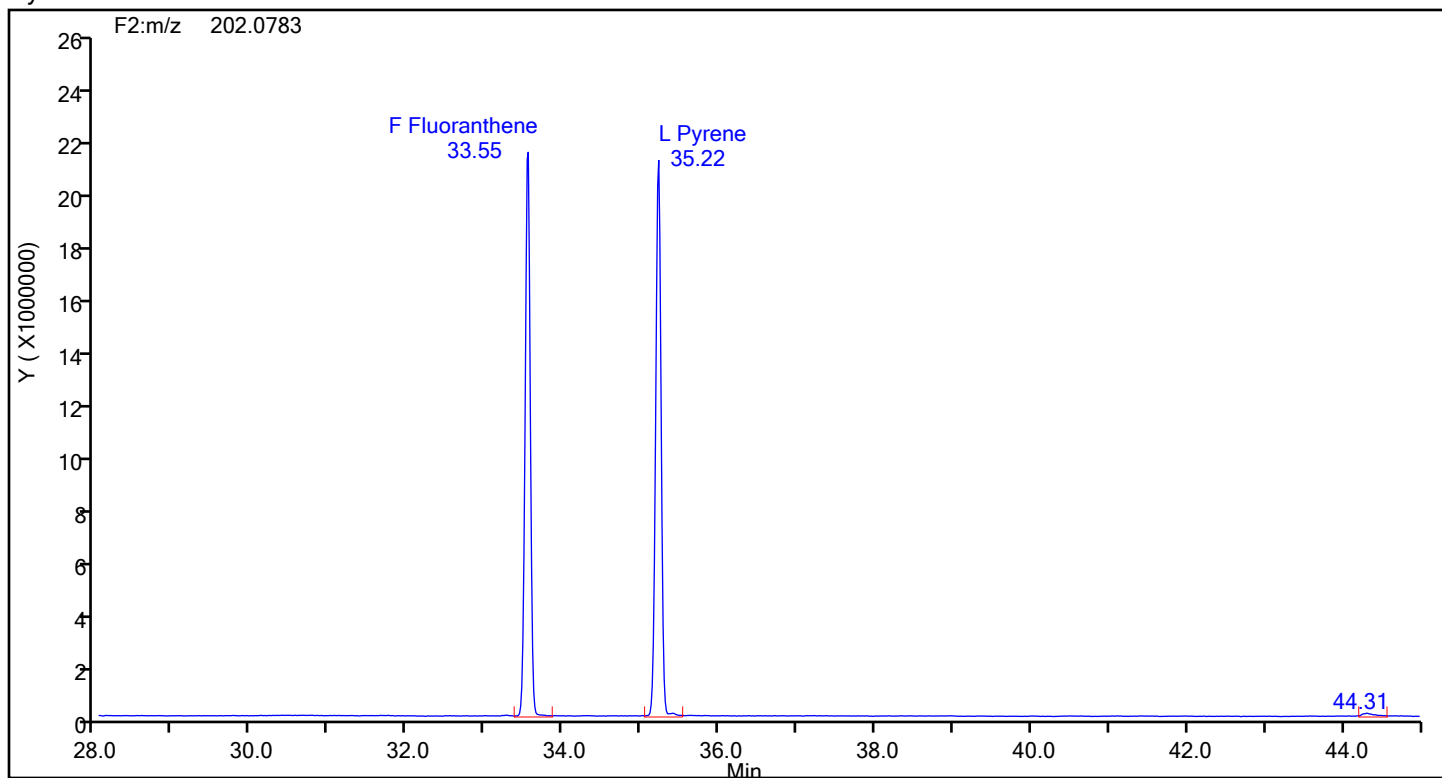
## Pyrene-d10 Standards



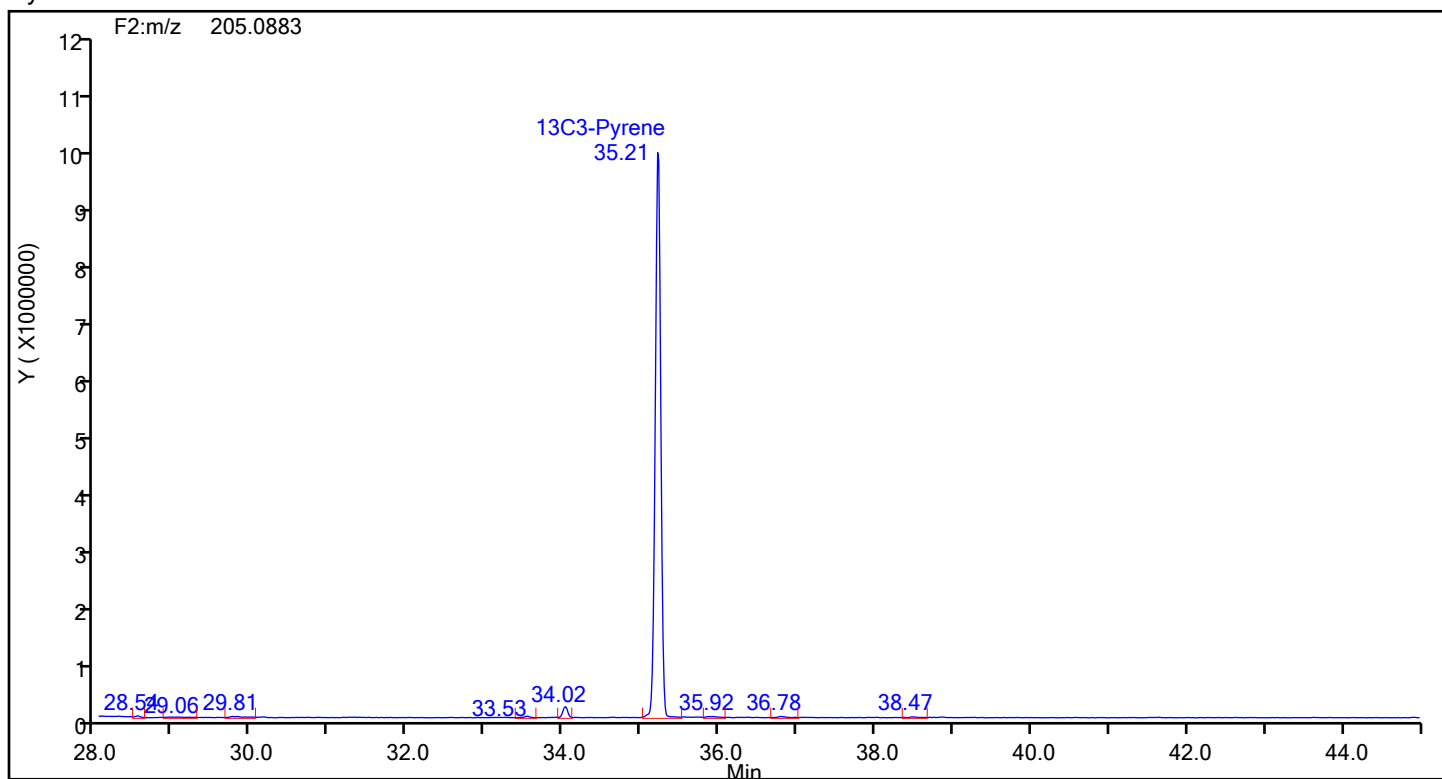
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Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



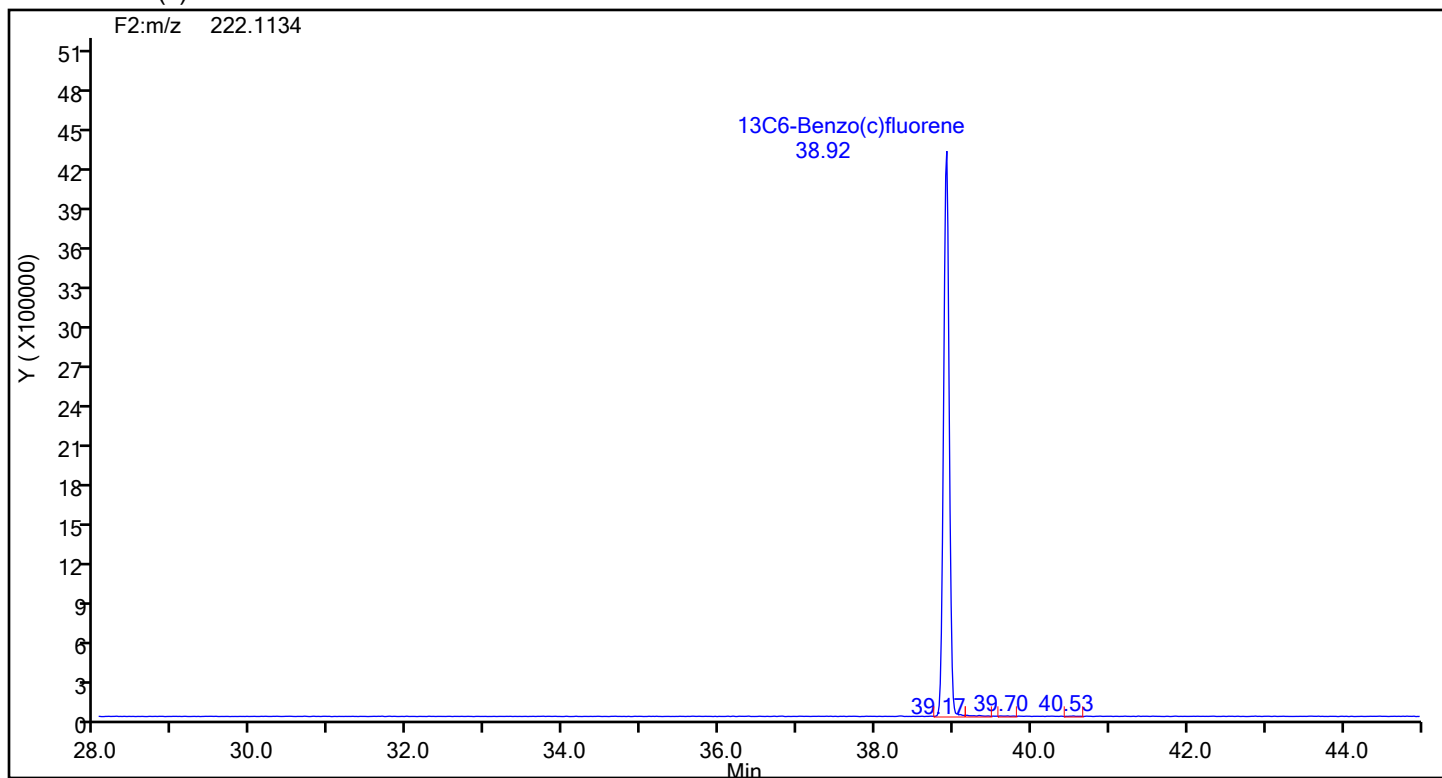
## Pyrene Standards



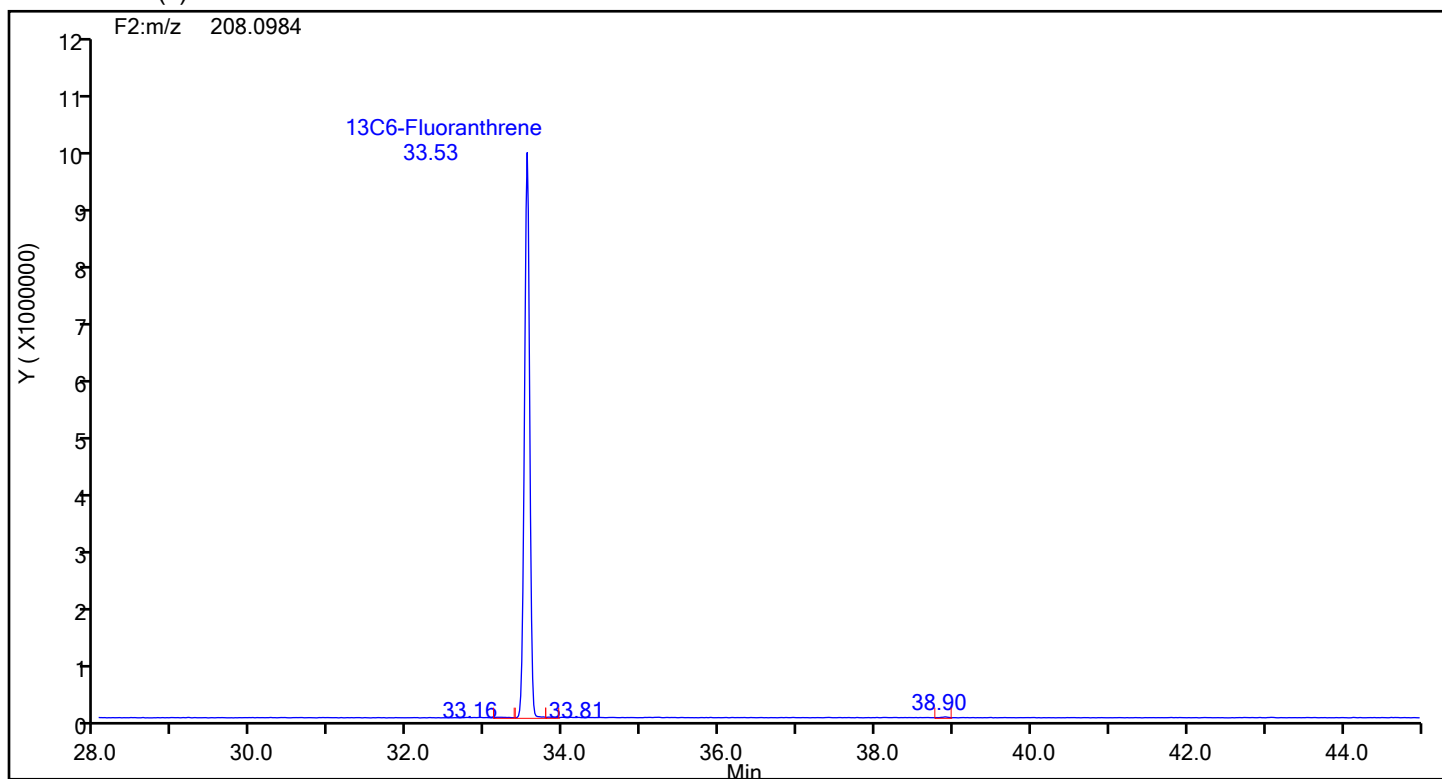
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Client ID:  
Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



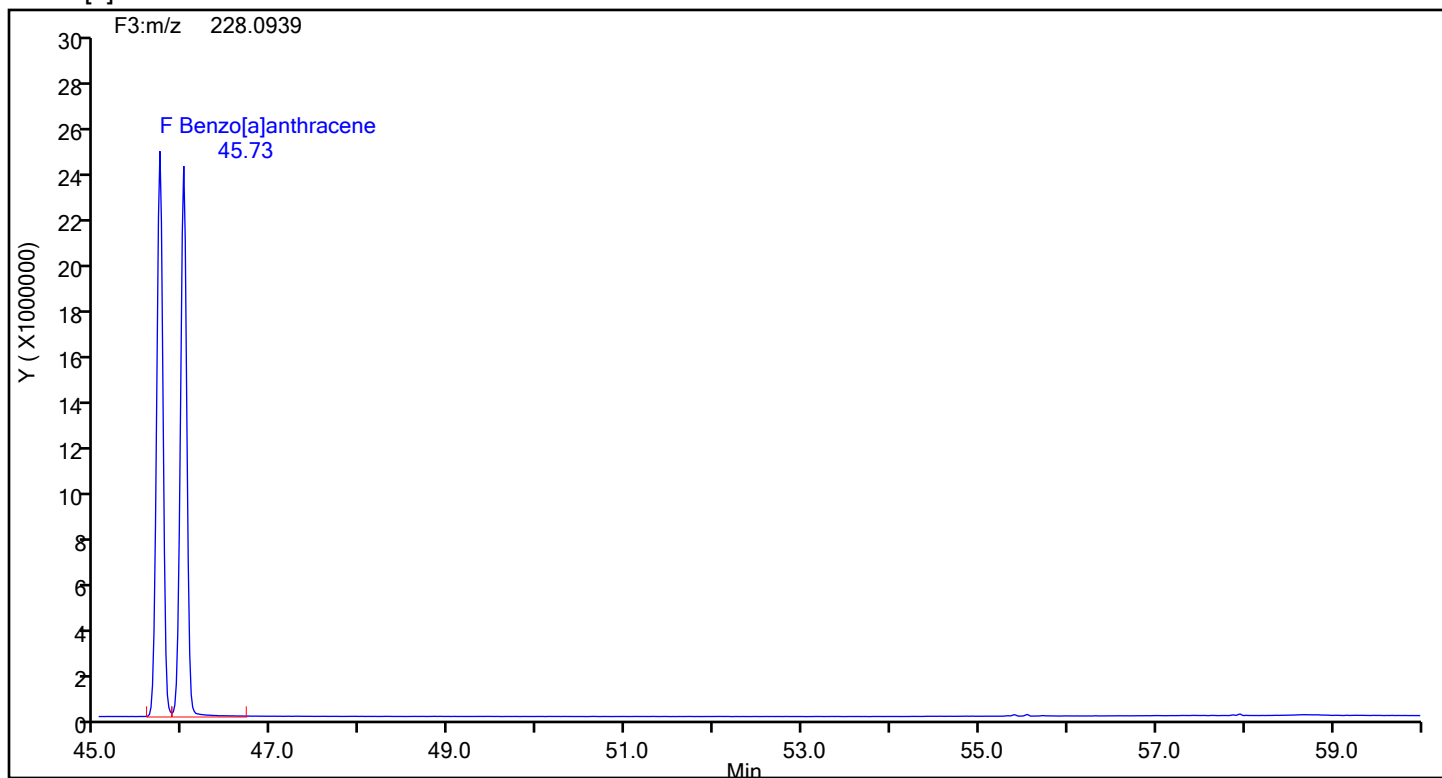
## 13C6-Benzo(c)fluorene Standards



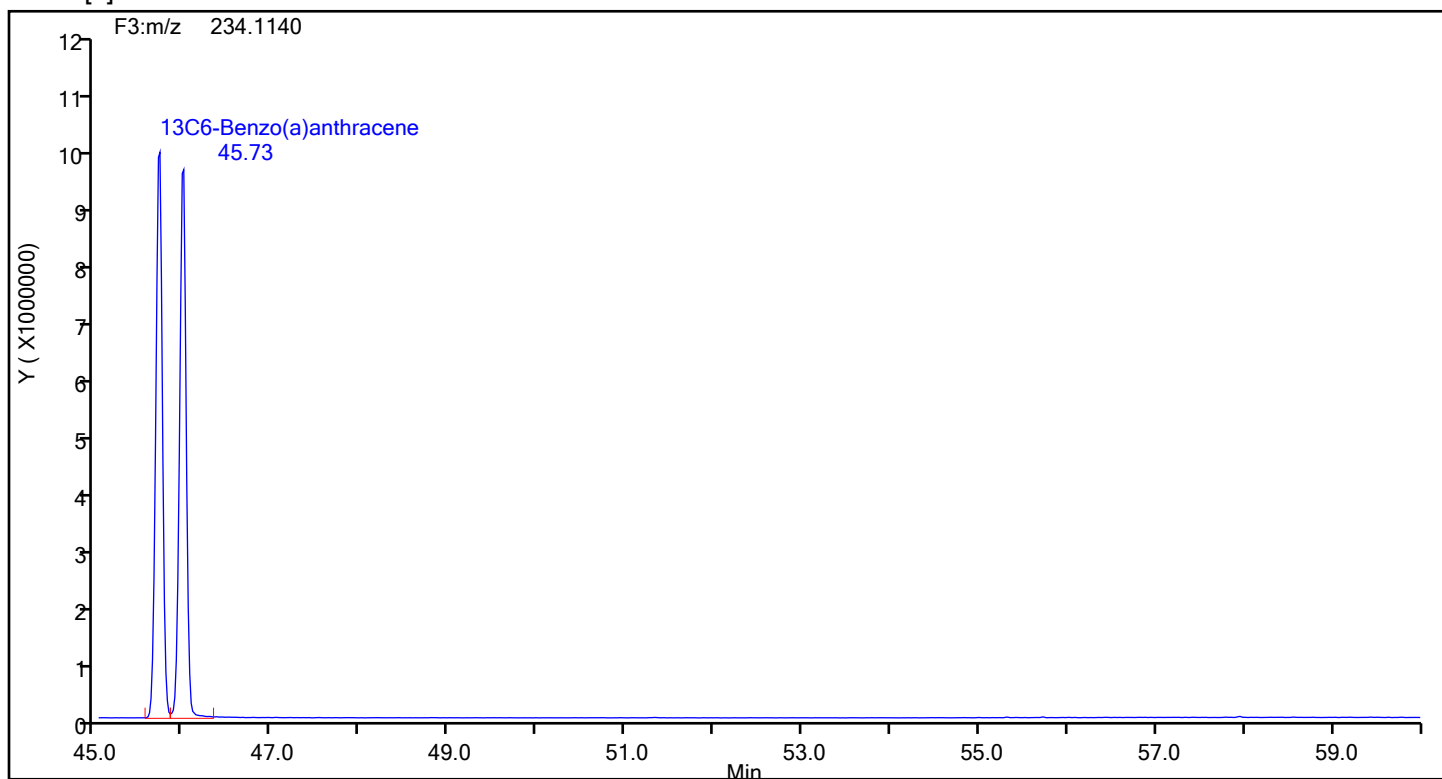
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



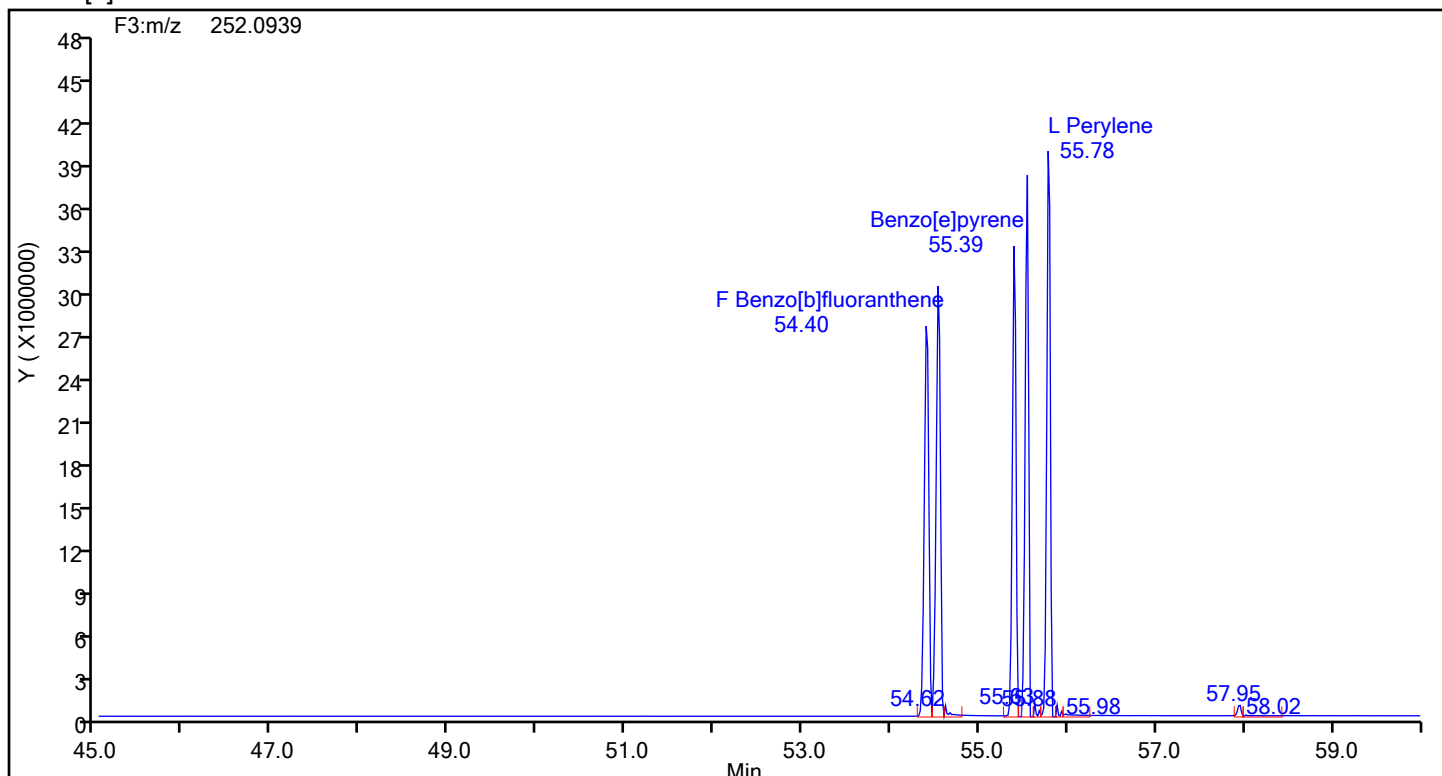
## Benzo[a]anthracene Standards



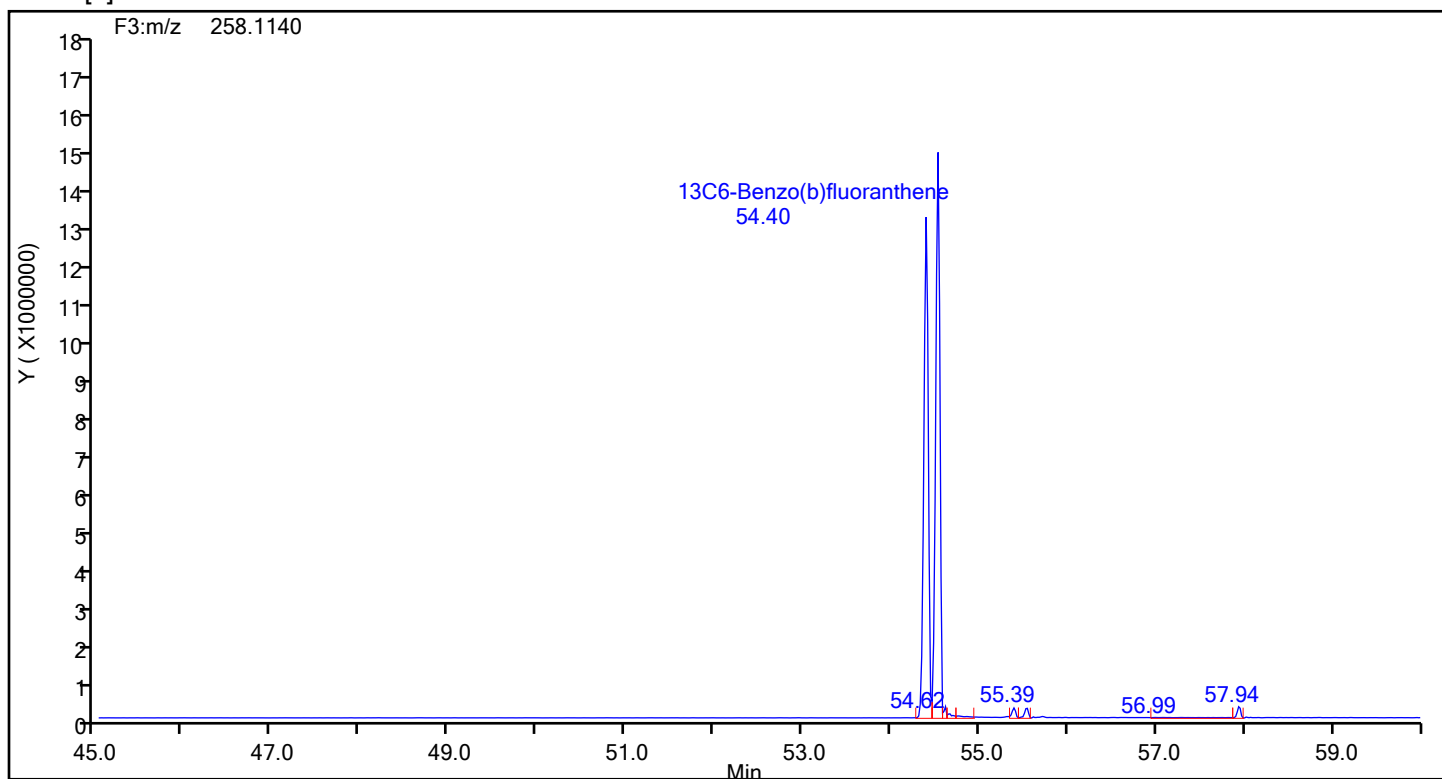
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



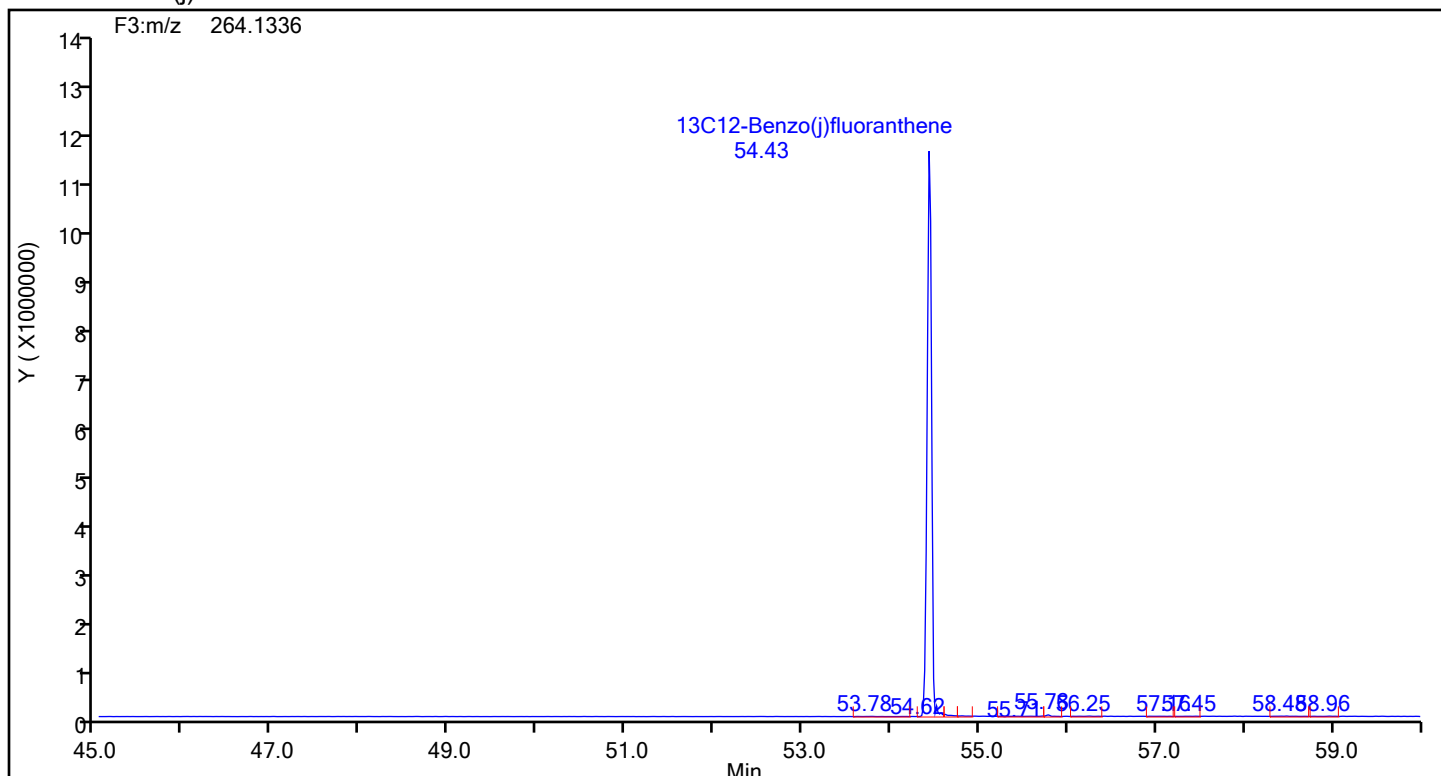
## Benzo[b]fluoranthene Standards



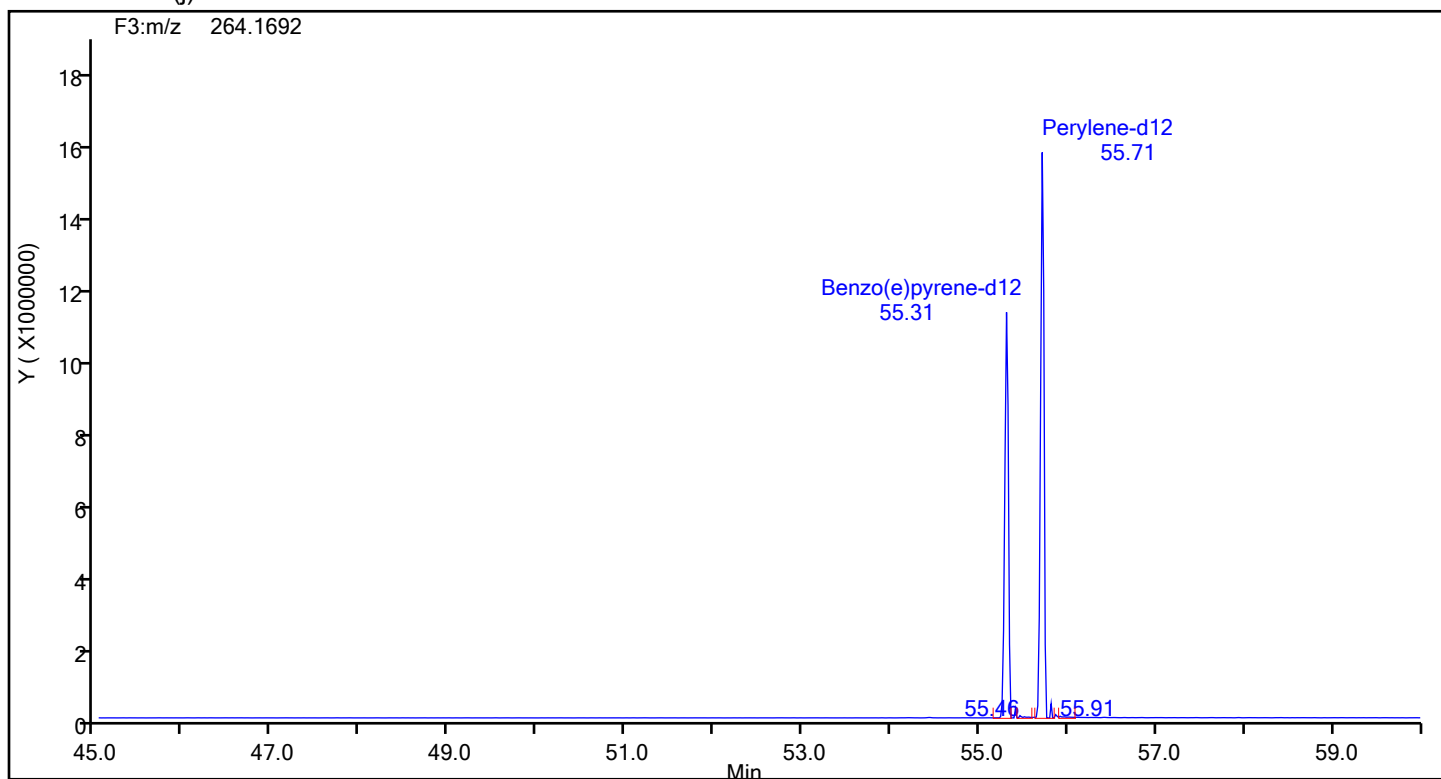
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



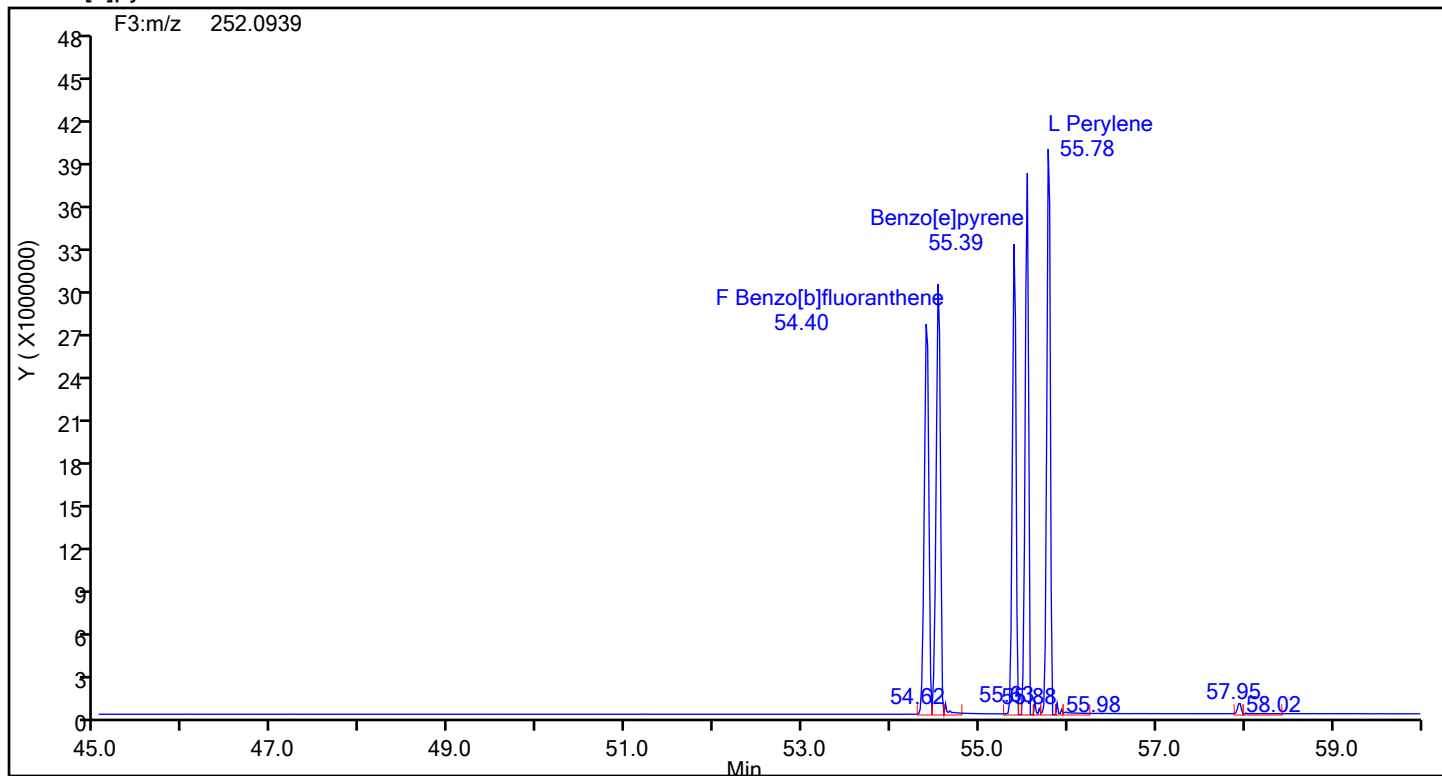
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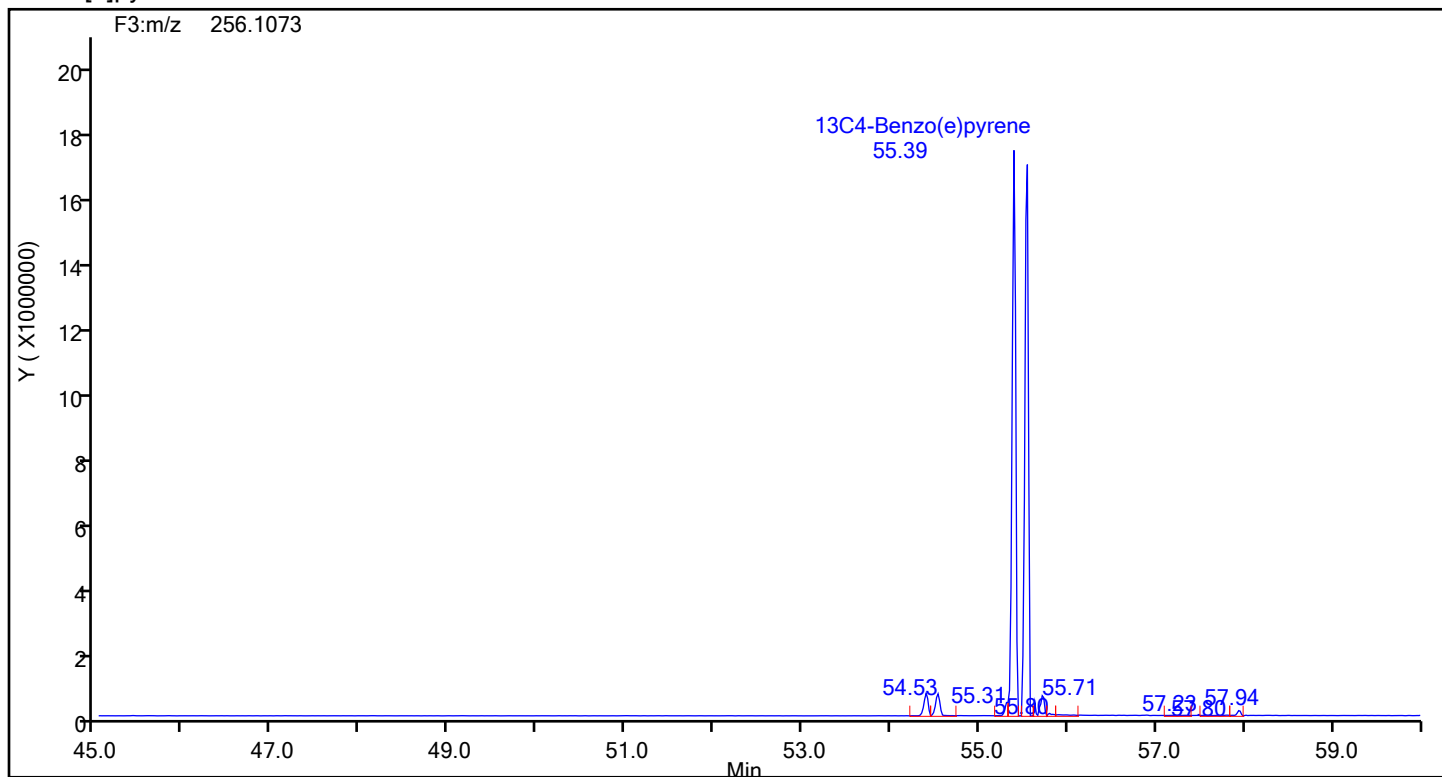
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



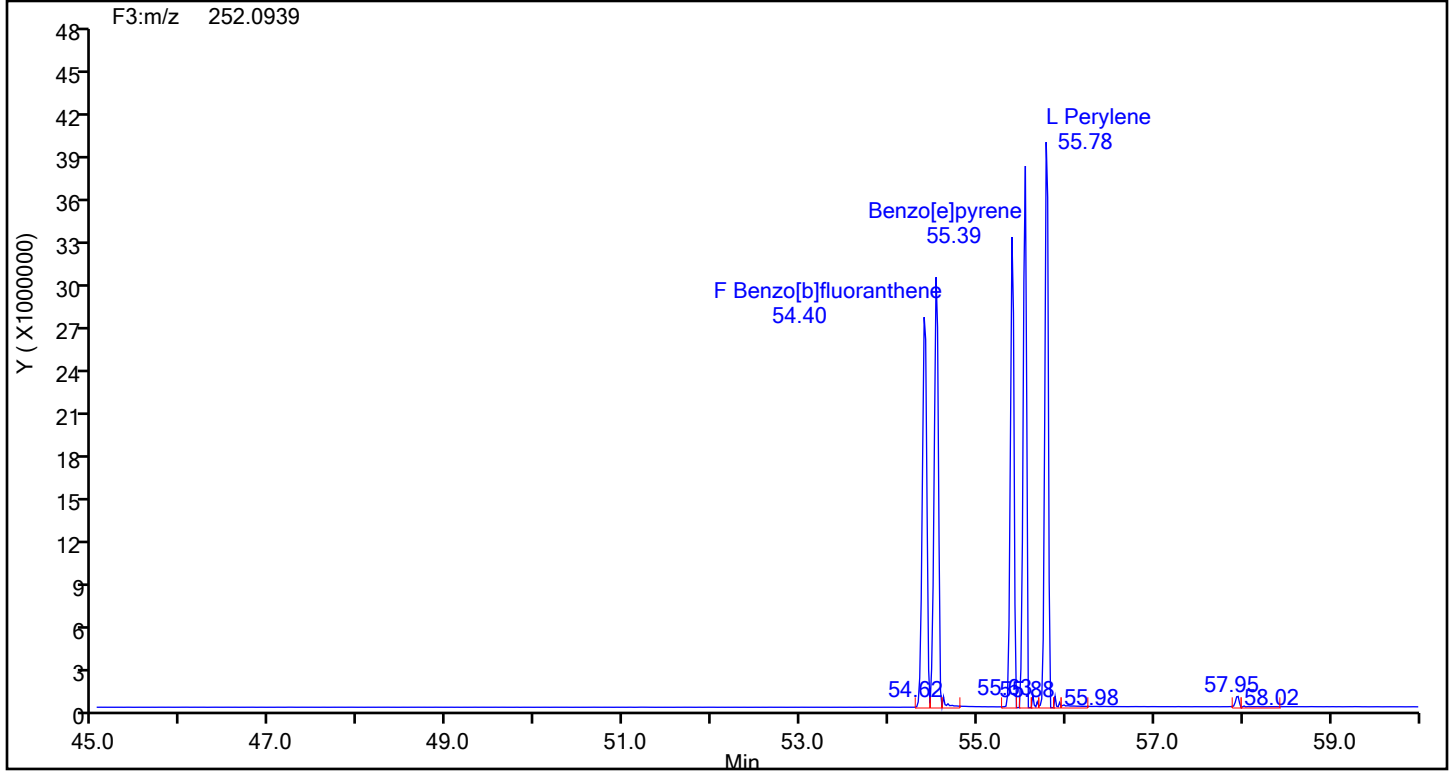
## Benzo[e]pyrene Standards



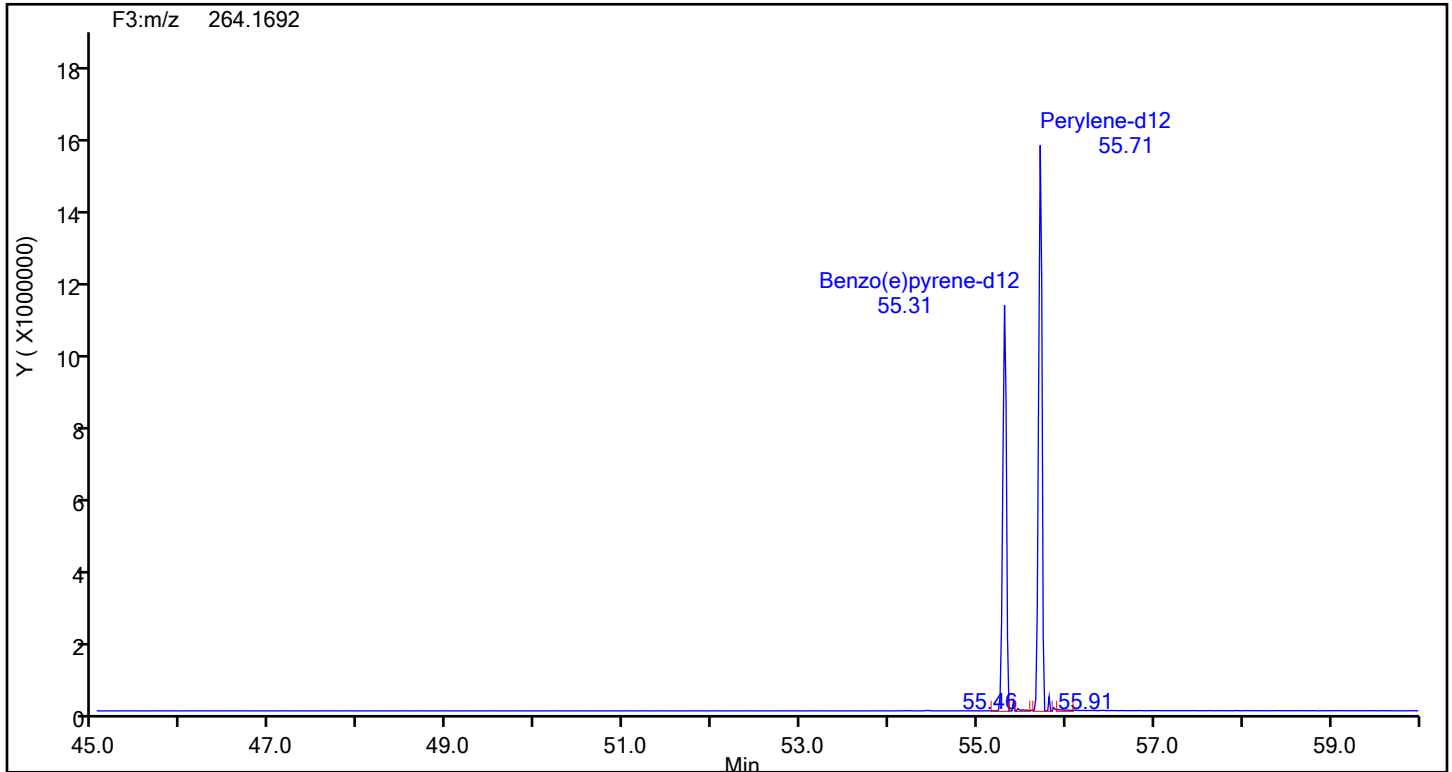
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Perylene



## Perylene Standards

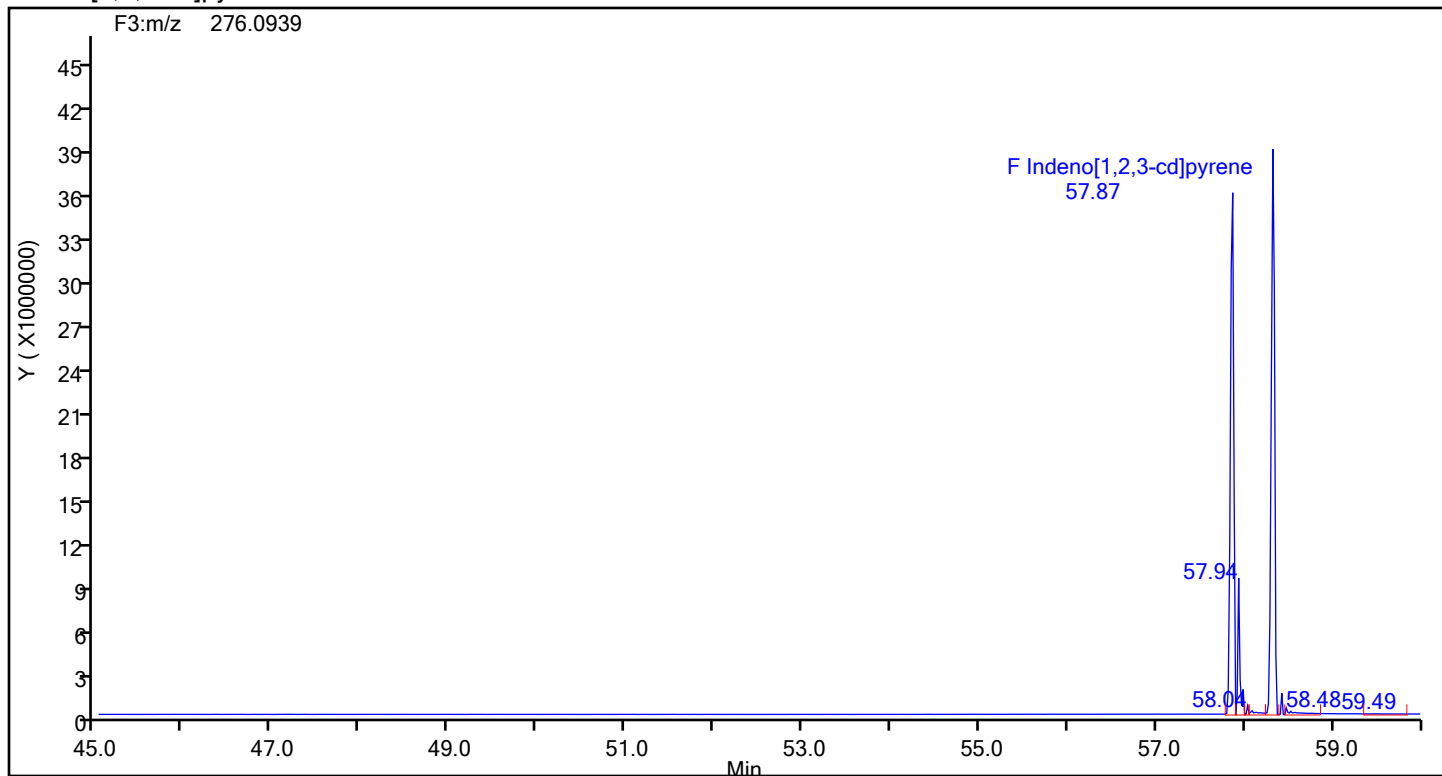




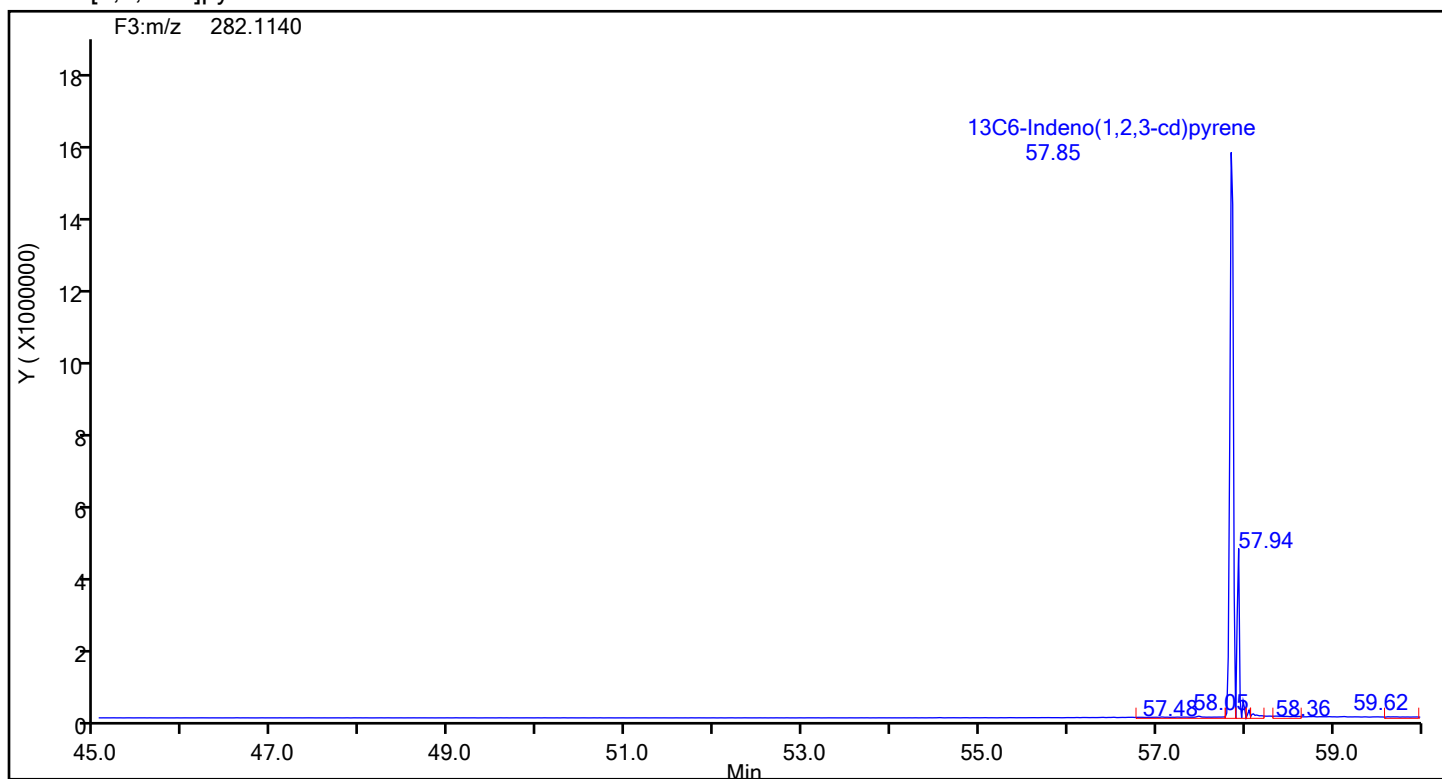
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene

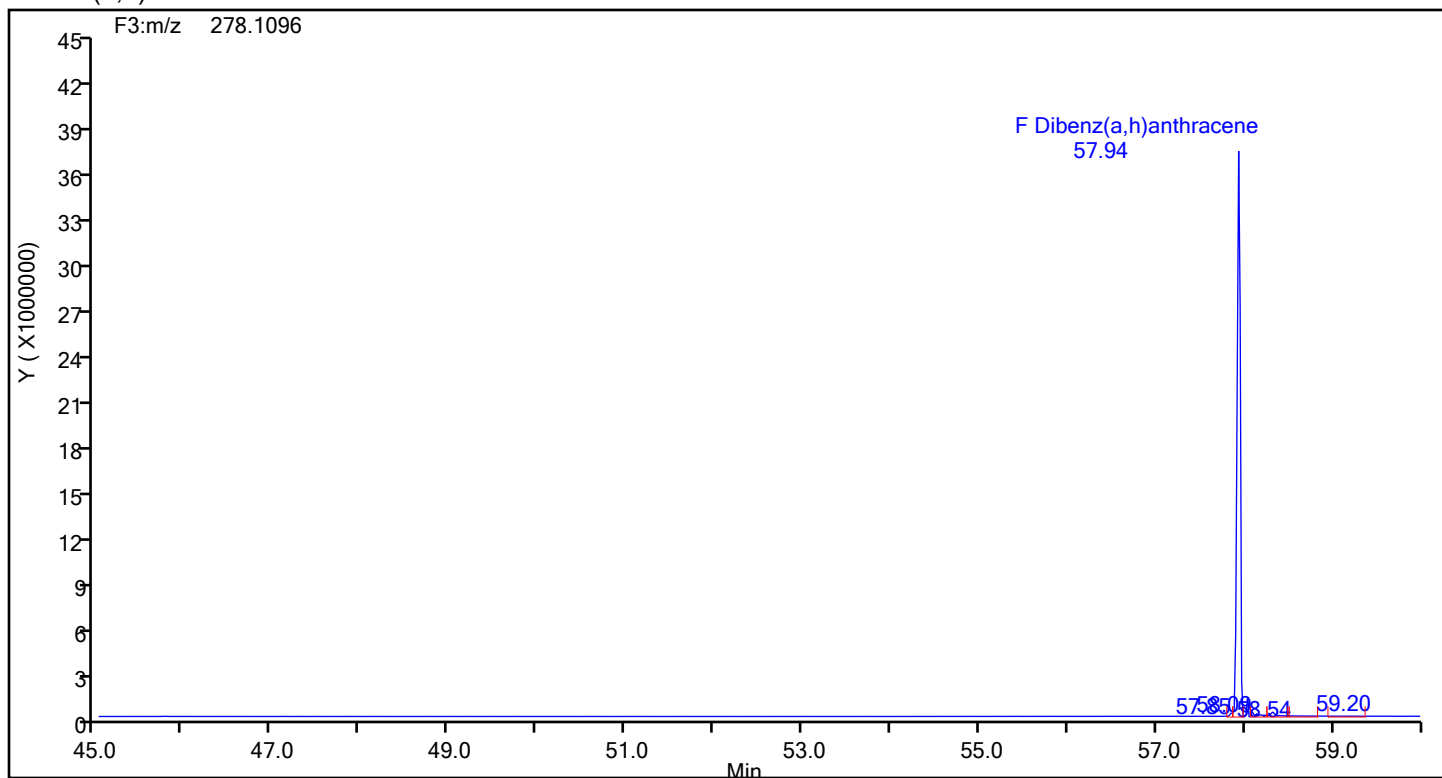


## Indeno[1,2,3-cd]pyrene Standards

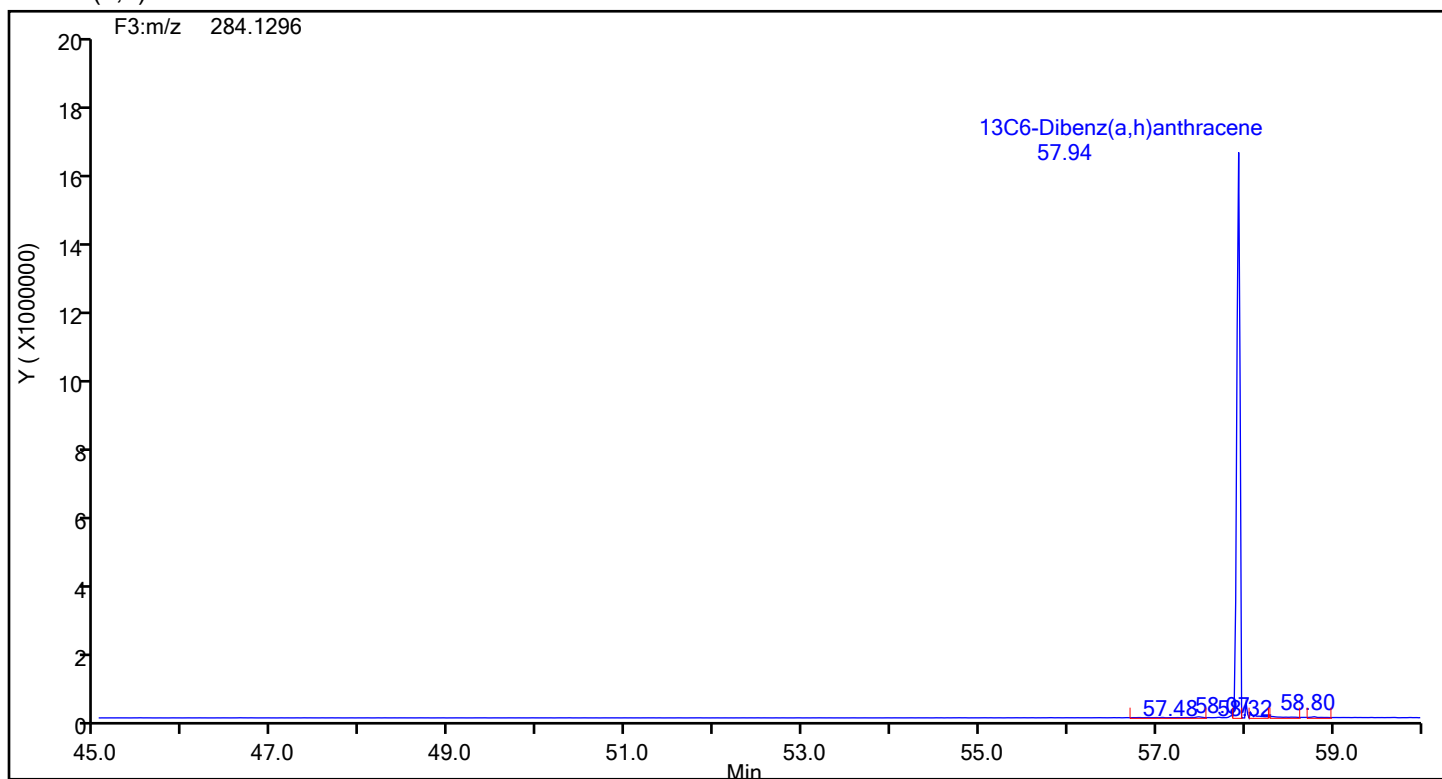


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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Dibenz(a,h)anthracene



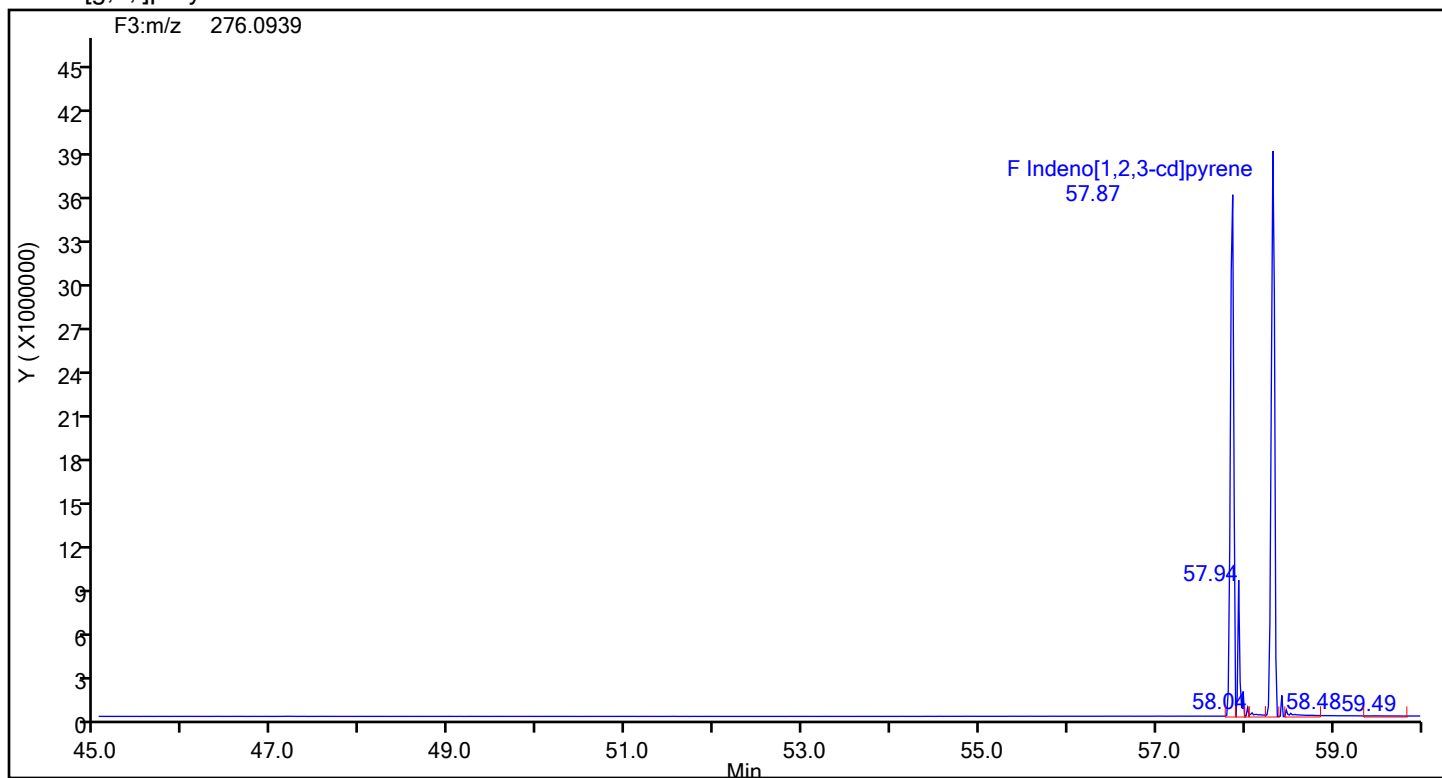
## Dibenz(a,h)anthracene Standards



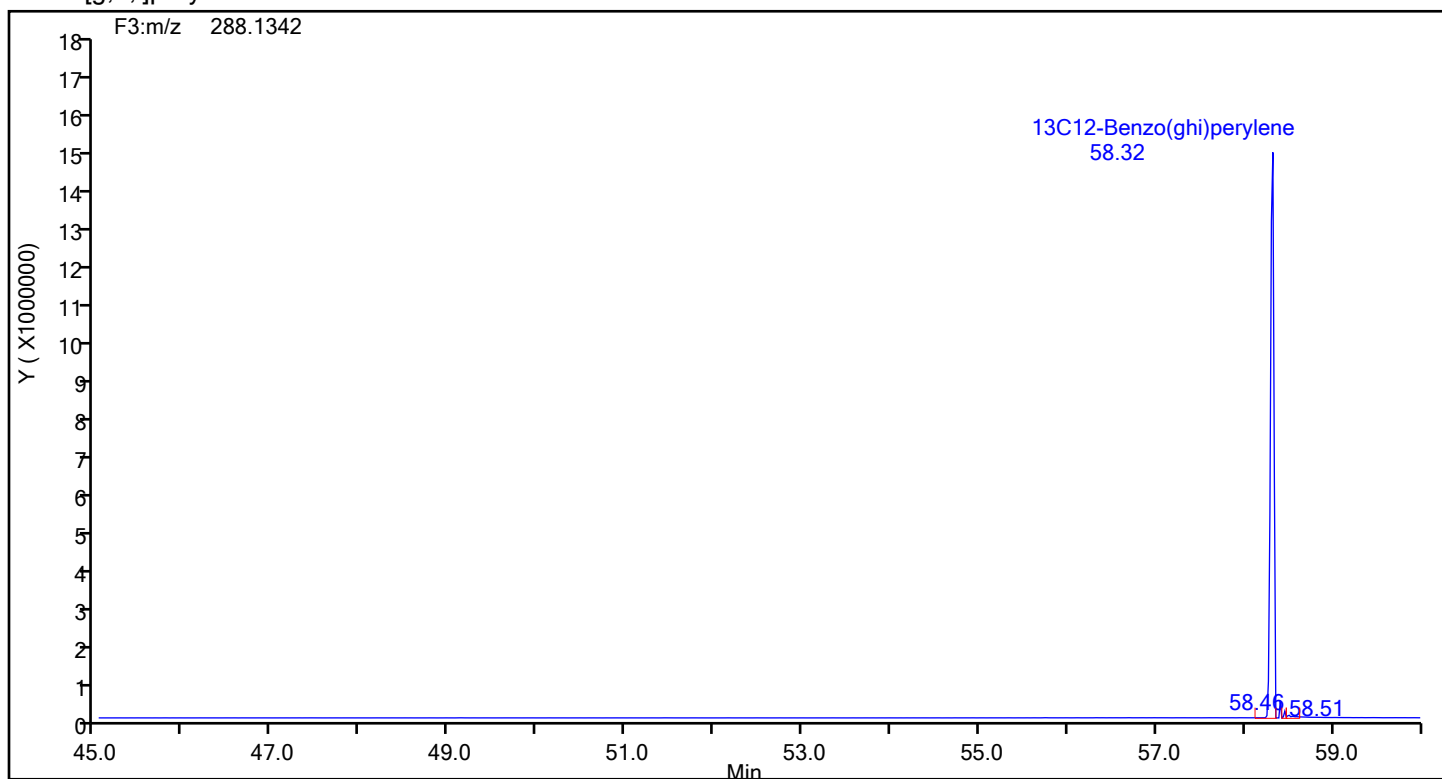
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



FORM VII  
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCV 140-88812/1 Calibration Date: 07/16/2024 11:30

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240716c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.231		191	200	-4.5	25.0
2-Methylnaphthalene	AveID	1.279	1.210		189	200	-5.3	25.0
Acenaphthylene	AveID	2.366	2.548		215	200	7.7	25.0
Acenaphthene	AveID	1.270	1.253		197	200	-1.3	25.0
Fluorene	AveID	1.253	1.275		204	200	1.8	25.0
Phenanthrene	AveID	1.104	1.132		205	200	2.5	25.0
Anthracene	AveID	1.359	1.368		201	200	0.7	25.0
Fluoranthene	AveID	1.151	1.168		203	200	1.4	25.0
Pyrene	AveID	1.065	1.044		196	200	-2.0	25.0
Benzo[a]anthracene	AveID	0.9739	1.069		220	200	9.7	25.0
Chrysene	AveID	0.9815	1.075		219	200	9.5	25.0
Benzo[b]fluoranthene	AveID	1.125	1.137		202	200	1.1	25.0
Benzo[k]fluoranthene	AveID	1.127	1.071		190	200	-4.9	25.0
Benzo[e]pyrene	AveID	1.001	0.9862		197	200	-1.5	25.0
Benzo[a]pyrene	AveID	1.113	1.110		200	200	-0.2	25.0
Perylene	AveID	1.431	1.552		217	200	8.5	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.156		206	200	2.7	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.156		204	200	2.1	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.319		206	200	2.8	25.0
13C6-Naphthalene	Ave	3.375	3.611		107	100	7.0	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.703		106	100	6.2	30.0
13C6-Acenaphthylene	Ave	1.652	1.722		104	100	4.3	30.0
13C6-Acenaphthene	Ave	0.9792	0.9234		94.3	100	-5.7	30.0
13C6-Fluorene	Ave	0.8898	0.9508		107	100	6.8	30.0
13C6-Phenanthrene	Ave	0.5724	0.4156		72.6	100	-27.4	30.0
13C6-Anthracene	Ave	0.4523	0.3572		79.0	100	-21.0	30.0
13C6-Fluoranthrene	Ave	1.199	1.214		101	100	1.3	30.0
13C3-Pyrene	Ave	1.351	1.417		105	100	4.8	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.285		84.6	100	-15.4	30.0
13C6-Chrysene	Ave	1.629	1.359		83.5	100	-16.5	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.395		95.4	100	-4.6	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.608		91.9	100	-8.1	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.663		102	100	1.6	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.684		109	100	8.6	30.0
Perylene-d12	Ave	1.192	1.276		107	100	7.1	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.387		136	100	35.7*	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.337		127	100	26.7	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.251		98.2	100	-1.8	30.0
Anthracene-d10	Ave	0.4257	0.3207		75.3	100	-24.7	25.0
13C6-Benzo(c)fluorene	Ave	0.5136	0.5332		104	100	3.8	25.0
13C12-Benzo(j)fluoranthene	Ave	1.356	1.231		90.8	100	-9.2	25.0

# Resolution Check Report ( DFS SN: 3439 )

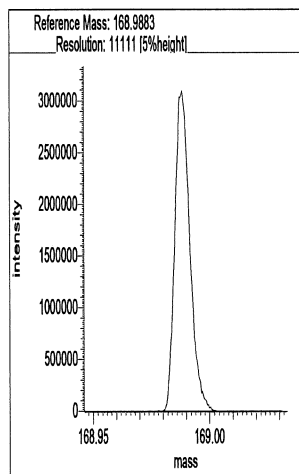
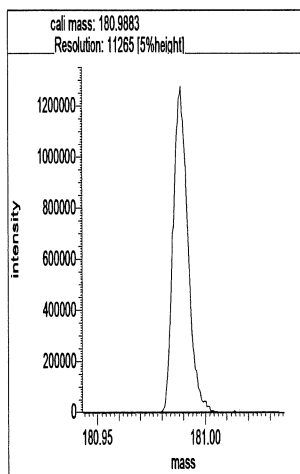
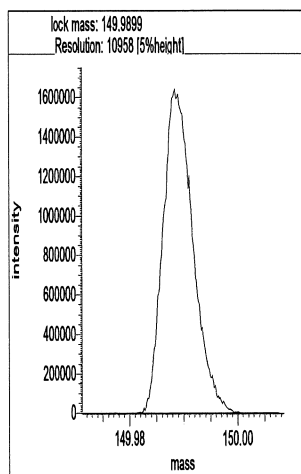
Date: 16 Jul 2024 11:19  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

## Segment 1

Lock mass 149.9899 [m/z] Resolution: 10958 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 11265 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 11111 [5%height]



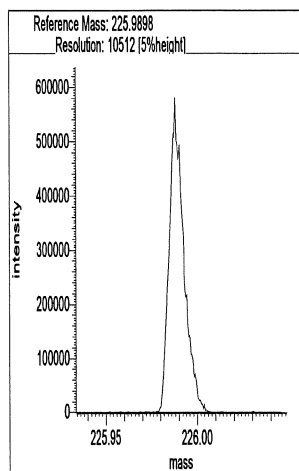
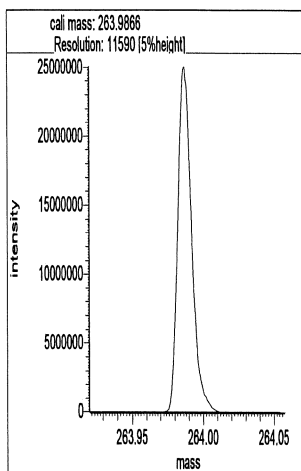
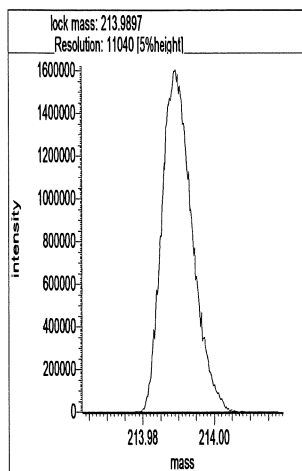
## Segment 2

Lock mass 213.9897 [m/z] Resolution: 11040 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11590 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 10512 [5%height]

03240716-4

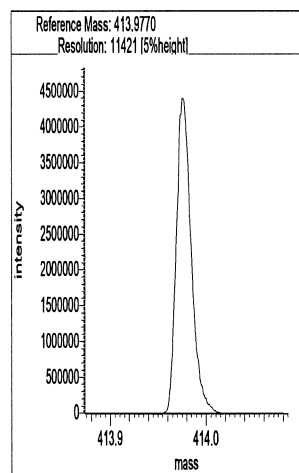
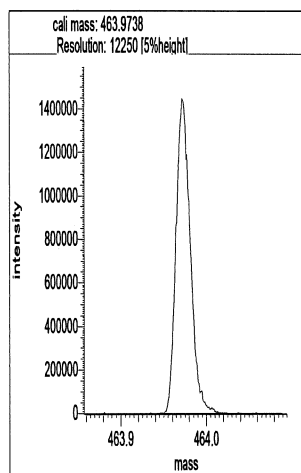
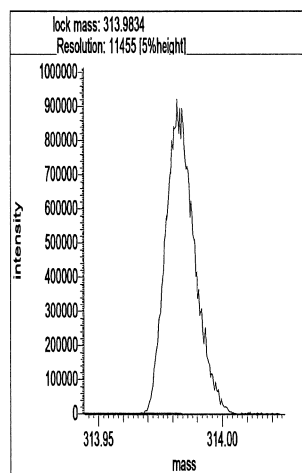


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11455 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12250 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 11421 [5%height]



## Reports

11:26:52: Peak matching procedure started  
11:26:52:  
11:26:53: Reference mass: 263.98656  
11:26:53: Sample mass: 414.0  
11:26:54:  
11:26:54: Finding reference mass  
11:26:55: Finding sample mass  
11:26:56:  
11:27:01: [1] 413.9759 amu, mean: 413.9759 SD: 0.04 mmu or: 0.09 ppm  
11:27:05: [2] 413.9760 amu, mean: 413.9759 SD: 0.17 mmu or: 0.41 ppm  
11:27:08: [3] 413.9762 amu, mean: 413.9760 SD: 0.27 mmu or: 0.64 ppm  
11:27:11: [4] 413.9756 amu, mean: 413.9759 SD: 0.29 mmu or: 0.71 ppm  
11:27:14: [5] 413.9755 amu, mean: 413.9758 SD: 0.28 mmu or: 0.67 ppm  
11:27:17: [6] 413.9756 amu, mean: 413.9758 SD: 0.27 mmu or: 0.66 ppm  
11:27:20: [7] 413.9761 amu, mean: 413.9758 SD: 0.27 mmu or: 0.66 ppm  
11:27:24: [8] 413.9756 amu, mean: 413.9758 SD: 0.31 mmu or: 0.75 ppm  
11:27:27: [9] 413.9763 amu, mean: 413.9759 SD: 0.35 mmu or: 0.84 ppm  
11:27:30: [10] 413.9765 amu, mean: 413.9759 SD: 0.35 mmu or: 0.85 ppm  
11:27:33: [11] 413.9763 amu, mean: 413.9760  
11:27:35:  
11:27:35: Stop requested. Please wait for procedure to finish.  
11:27:35:  
11:27:36: [12] 413.9766 amu, mean: 413.9760 SD: 0.38 mmu or: 0.93 ppm  
11:27:38:  
11:27:38: Peakmatching stopped

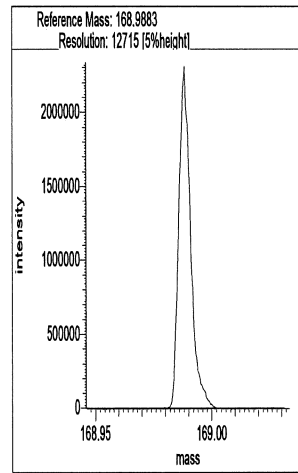
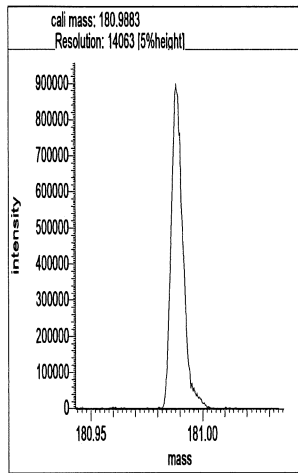
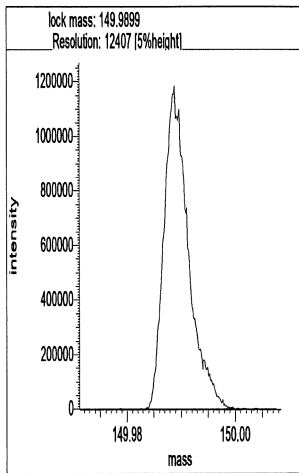
Signature mar 7/16/24

# Resolution Check Report ( DFS SN: 3439 )

Date: 16 Jul 2024 22:16  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

## Segment 1

Lock mass 149.9899 [m/z] Resolution: 12407 [5%height]  
Cali. mass 180.9883 [m/z] Resolution: 14063 [5%height]  
Ref. mass 168.9883 [m/z] Resolution: 12715 [5%height]

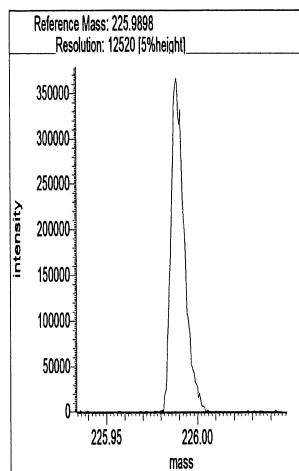
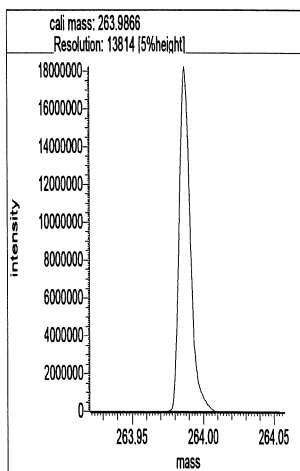
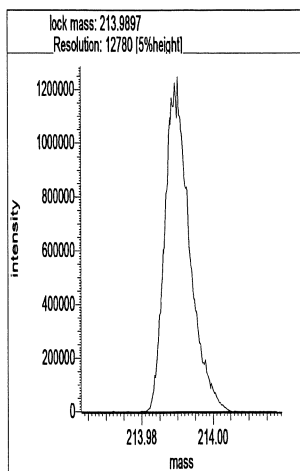


## Segment 2

Lock mass 213.9897 [m/z] Resolution: 12780 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 13814 [5%height]  
Ref. mass 225.9898 [m/z] Resolution: 12520 [5%height]

d3240716r5



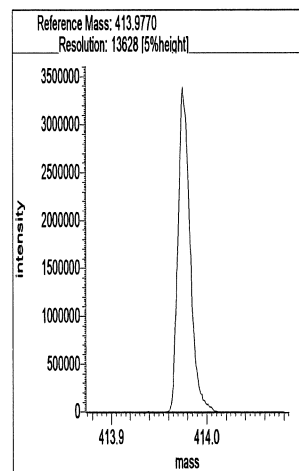
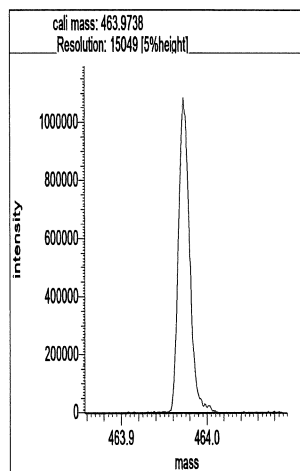
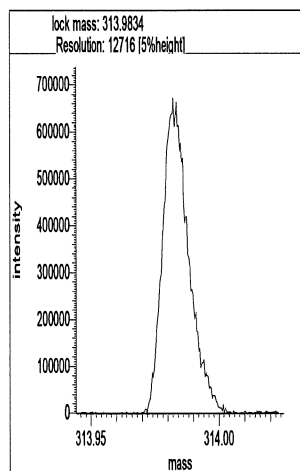


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 12716 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 15049 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 13628 [5%height]



## Reports

22:23:23: Peak matching procedure started  
22:23:23:  
22:23:24: Reference mass: 263.98656  
22:23:24: Sample mass: 414.0  
22:23:25:  
22:23:25: Finding reference mass  
22:23:26: Finding sample mass  
22:23:27:  
22:23:32: [1] 413.9730 amu, mean: 413.9730 SD: 0.07 mmu or: 0.17 ppm  
22:23:36: [2] 413.9729 amu, mean: 413.9730 SD: 0.19 mmu or: 0.45 ppm  
22:23:39: [3] 413.9726 amu, mean: 413.9729 SD: 0.17 mmu or: 0.42 ppm  
22:23:42: [4] 413.9727 amu, mean: 413.9728 SD: 0.30 mmu or: 0.73 ppm  
22:23:45: [5] 413.9722 amu, mean: 413.9727 SD: 0.34 mmu or: 0.82 ppm  
22:23:48: [6] 413.9722 amu, mean: 413.9726 SD: 0.49 mmu or: 1.18 ppm  
22:23:51: [7] 413.9716 amu, mean: 413.9725 SD: 0.51 mmu or: 1.23 ppm  
22:23:54: [8] 413.9718 amu, mean: 413.9724 SD: 0.49 mmu or: 1.19 ppm  
22:23:58: [9] 413.9720 amu, mean: 413.9723 SD: 0.50 mmu or: 1.20 ppm  
22:24:01: [10] 413.9718 amu, mean: 413.9723 SD: 0.47 mmu or: 1.14 ppm  
22:24:04: [11] 413.9721 amu, mean: 413.9723  
22:24:05:  
22:24:05: Stop requested. Please wait for procedure to finish.  
22:24:05:  
22:24:07:  
22:24:08: Peakmatching stopped

Signature map 7/16/24

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\d3240716c2a.d  
 Lims ID: CCV  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 16-Jul-2024 11:30:00 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Sublist: chrom-EPA\_23\_\_PAH\*sub1  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAAH ICAL  
 Last Update: 16-Jul-2024 14:51:49 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1608

First Level Reviewer: F9EE

Date: 16-Jul-2024 12:44:40

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:25	37947866		3.3746	107.0	107.0	0.009539	0.009539	107	
Naphthalene	11:25	93455678		1.2893	191.0	191.0	0.0271	0.0271	95.51	
D 13C6-2-Methylnaphthalene	13:47	17896264		1.6031	106.2	106.2	0.002106	0.002106	106	
2-Methylnaphthalene	13:47	43320058		1.2786	189.3	189.3	0.0137	0.0137	94.66	
D 13C6-Acenaphthylene	16:38	18099651		1.6520	104.3	104.3	0.002648	0.002648	104	
Acenaphthylene	16:38	49444696		2.3661	215.3	215.3	0.0226	0.0226	108	
* Acenaphthene-d10	17:12	10509311		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:19	9704106		0.9792	94.3	94.3	0.006536	0.006536	94.30	
Acenaphthene	17:20	24327330		1.2697	197.4	197.4	0.0271	0.0271	98.72	
D 13C6-Fluorene	19:36	9991813		0.8898	106.8	106.8	0.002337	0.002337	107	
Fluorene	19:36	25488112		1.2532	203.6	203.6	0.0237	0.0237	102	
D 13C6-Phenanthrene	24:56	12106436		0.5724	72.6	72.6	0.001596	0.001596	72.60	
Phenanthrene	24:57	27404625		1.1044	205.0	205.0	0.0315	0.0315	102	
\$ Anthracin-d10	25:09	9341273		0.4257	75.3	75.3	0.000730	0.000730	75.33	
D 13C6-Anthracene	25:16	10404738		0.4523	79.0	79.0	0.002020	0.002020	78.96	
Anthracene	25:17	28469318		1.3586	201.4	201.4	0.0321	0.0321	101	
D 13C6-Fluoranthrene	33:40	35376296		1.1994	101.3	101.3	0.0188	0.0188	101	
Fluoranthene	33:40	82635111		1.1513	202.9	202.9	0.0111	0.0111	101	
* Pyrene-d10	35:13	29130535		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:20	41265751		1.3512	104.8	104.8	0.0152	0.0152	105	
Pyrene	35:21	86191034		1.0652	196.1	196.1	0.0106	0.0106	98.04	
\$ 13C6-Benzo(c)fluorene	39:03	15532873		0.5136	103.8	103.8	0.006048	0.006048	104	
D 13C6-Benzo(a)anthracene	45:51	39741232		1.5189	84.6	84.6	0.008262	0.008262	84.63	
Benzo[a]anthracene	45:51	84945835		0.9739	219.5	219.5	0.0404	0.0404	110	
D 13C6-Chrysene	46:08	42027651		1.6287	83.5	83.5	0.007705	0.007705	83.46	
Chrysene	46:08	90351001		0.9815	219.0	219.0	0.0393	0.0393	110	
D 13C6-Benzo(b)fluoranthene	54:29	43139709		1.4621	95.4	95.4	0.001778	0.001778	95.44	
Benzo[b]fluoranthene	54:30	98081556		1.1249	202.1	202.1	0.004298	0.004298	101	
\$ 13C12-Benzo(j)fluoranthene	54:31	38064899		1.3558	90.8	90.8	0.006880	0.006880	90.81	
D 13C6-Benzo(k)fluoranthene	54:37	49716275		1.7507	91.9	91.9	0.001485	0.001485	91.85	
Benzo[k]fluoranthene	54:37	106526860		1.1271	190.1	190.1	0.003631	0.003631	95.05	
* Benzo(e)pyrene-d12	55:22	30917420		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:27	51413734		1.6368	101.6	101.6	0.002563	0.002563	102	
Benzo[e]pyrene	55:27	101403373		1.0013	197.0	197.0	0.003208	0.003208	98.49	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:35	52080013		1.5508	108.6	108.6	0.002705	0.002705	109	
Benzo[a]pyrene	55:35	115667494		1.1130	199.5	199.5	0.002901	0.002901	99.77	
D Perylene-d12	55:47	39460537		1.1917	107.1	107.1	0.007766	0.007766	107	
Perylene	55:51	122497232		1.4307	217.0	217.0	0.002975	0.002975	108	
D 13C6-Indeno(1,2,3-cd)pyrene	57:54	42875285		1.0218	135.7	135.7	0.007494	0.007494	136	
Indeno[1,2,3-cd]pyrene	57:55	99105147		1.1249	205.5	205.5	0.003585	0.003585	103	
D 13C6-Dibenz(a,h)anthracene	57:59	41326875		1.0553	126.7	126.7	0.005322	0.005322	127	
Dibenz(a,h)anthracene	57:59	95518550		1.1314	204.3	204.3	0.002669	0.002669	102	
D 13C12-Benzo(ghi)perylene	58:22	38691895		1.2749	98.2	98.2	0.001034	0.001034	98.16	
Benzo[g,h,i]perylene	58:22	102077474		1.2838	205.5	205.5	0.003399	0.003399	103	

## Processing Flags

Reagents:

61HRPAHCS5a 00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\d3240716c2a.d  
Lims ID: CCV  
Client ID:  
Sample Type: CCV  
Inject. Date: 16-Jul-2024 11:30:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 16-Jul-2024 14:51:49 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1608

First Level Reviewer: F9EE

Date: 16-Jul-2024 12:44:40

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:25	11:25	0	0.663	37947866	13191226	477	1192	27655		E
Naphthalene											
128.0626	11:25	11:25	0	1.000	93455678	31644731	1844	4610	17161		
13C6-2-Methylnaphthalene											
148.0984	13:47	13:47	0	0.801	17896264	8870125	50	125	177403		E
2-Methylnaphthalene											
142.0783	13:47	13:47	0	1.000	43320058	21122658	620	1550	34069		
13C6-Acenaphthylene											
158.0828	16:38	16:38	0	0.967	18099651	6590335	65	162	101390		E
Acenaphthylene											
152.0626	16:38	16:38	0	1.000	49444696	17882075	710	1775	25186		
Acenaphthene-d10											
164.1404	17:12	17:12	0		10509311	3703039	9	22	411449		
13C6-Acenaphthene											
160.0984	17:19	17:19	0	1.007	9704106	3316907	95	237	34915		
Acenaphthene											
154.0783	17:20	17:20	0	1.001	24327330	8772883	457	1142	19197		
13C6-Fluorene											
172.0984	19:36	19:36	0	1.139	9991813	2966057	31	77	95679		E
Fluorene											
166.0783	19:36	19:36	0	1.001	25488112	7838728	353	882	22206		
13C6-Phenanthrene											
184.0984	24:56	24:56	0	0.708	12106436	2944573	20	50	147229		
Phenanthrene											
178.0783	24:57	24:57	0	1.000	27404625	6582431	410	1025	16055		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:09	25:09	0	0.714	9341273	2153898	7	17	307700		
13C6-Anthracene											
184.0984	25:16	25:16	0	0.718	10404738	2353965	20	50	117698		
Anthracene											
178.0783	25:17	25:17	0	1.000	28469318	6606338	410	1025	16113		
13C6-Fluoranthrene											
208.0984	33:40	33:40	0	0.956	35376296	7294759	493	1232	14797		E
Fluoranthene											
202.0783	33:40	33:40	0	1.000	82635111	16989483	372	930	45671		
Pyrene-d10											
212.1404	35:13	35:13	0		29130535	5473213	36	90	152034		
13C3-Pyrene											
205.0883	35:20	35:20	0	1.004	41265751	8236636	451	1127	18263		E
Pyrene											
202.0783	35:21	35:21	0	1.000	86191034	17603531	372	930	47321		
13C6-Benzo(c)fluorene											
222.1134	39:03	39:03	0	0.705	15532873	2749939	68	170	40440		
13C6-Benzo(a)anthracene											
234.1140	45:51	45:51	0	1.302	39741232	7410440	541	1352	13698		
Benzo[a]anthracene											
228.0939	45:51	45:51	0	1.000	84945835	16112801	1166	2915	13819		
13C6-Chrysene											
234.1140	46:08	46:08	0	1.310	42027651	7552927	541	1352	13961		
Chrysene											
228.0939	46:08	46:08	0	1.000	90351001	16467467	1166	2915	14123		
13C6-Benzo(b)fluoranthene											
258.1140	54:29	54:29	0	0.984	43139709	12100076	112	280	108036		
Benzo[b]fluoranthene											
252.0939	54:30	54:30	0	1.000	98081556	27964924	234	585	119508		
13C12-Benzo(j)fluoranthene											
264.1336	54:31	54:31	0	0.984	38064899	10224923	402	1005	25435		
13C6-Benzo(k)fluoranthene											
258.1140	54:37	54:37	0	0.986	49716275	14293228	112	280	127618		
Benzo[k]fluoranthene											
252.0939	54:37	54:37	0	1.000	106526860	30325948	234	585	129598		
Benzo(e)pyrene-d12											
264.1692	55:22	55:22	0		30917420	10773461	399	997	27001		
13C4-Benzo(e)pyrene											
256.1073	55:27	55:27	0	1.002	51413734	18210999	181	452	100613		E
Benzo[e]pyrene											
252.0939	55:27	55:27	0	1.000	101403373	37013824	234	585	158179		
13C4-Benzo(a)pyrene											
256.1073	55:35	55:35	0	1.004	52080013	18115564	181	452	100086		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:35	55:35	0	1.000	115667494	38682368	234	585	165309		
Perylene-d12											
264.1692	55:47	55:47	0	1.007	39460537	13745132	399	997	34449		E
Perylene											
252.0939	55:51	55:51	0	1.001	122497232	45419579	234	585	194101		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:54	57:54	0	1.046	42875285	15123674	330	825	45829		E
Indeno[1,2,3-cd]pyrene											
276.0939	57:55	57:55	0	1.000	99105147	36447842	244	610	149376		
13C6-Dibenz(a,h)anthracene											
284.1296	57:59	57:59	0	1.047	41326875	15963527	242	605	65965		E
Dibenz(a,h)anthracene											
278.1096	57:59	57:59	0	1.000	95518550	36266812	193	482	187911		
13C12-Benzo(ghi)perylene											
288.1342	58:22	58:22	0	1.054	38691895	13977833	57	142	245225		
Benzo[g,h,i]perylene											
276.0939	58:22	58:22	0	1.000	102077474	34934955	244	610	143176		

### QC Flag Legend

Processing Flags

### Reagents:

61HRPAHCS5a\_00002

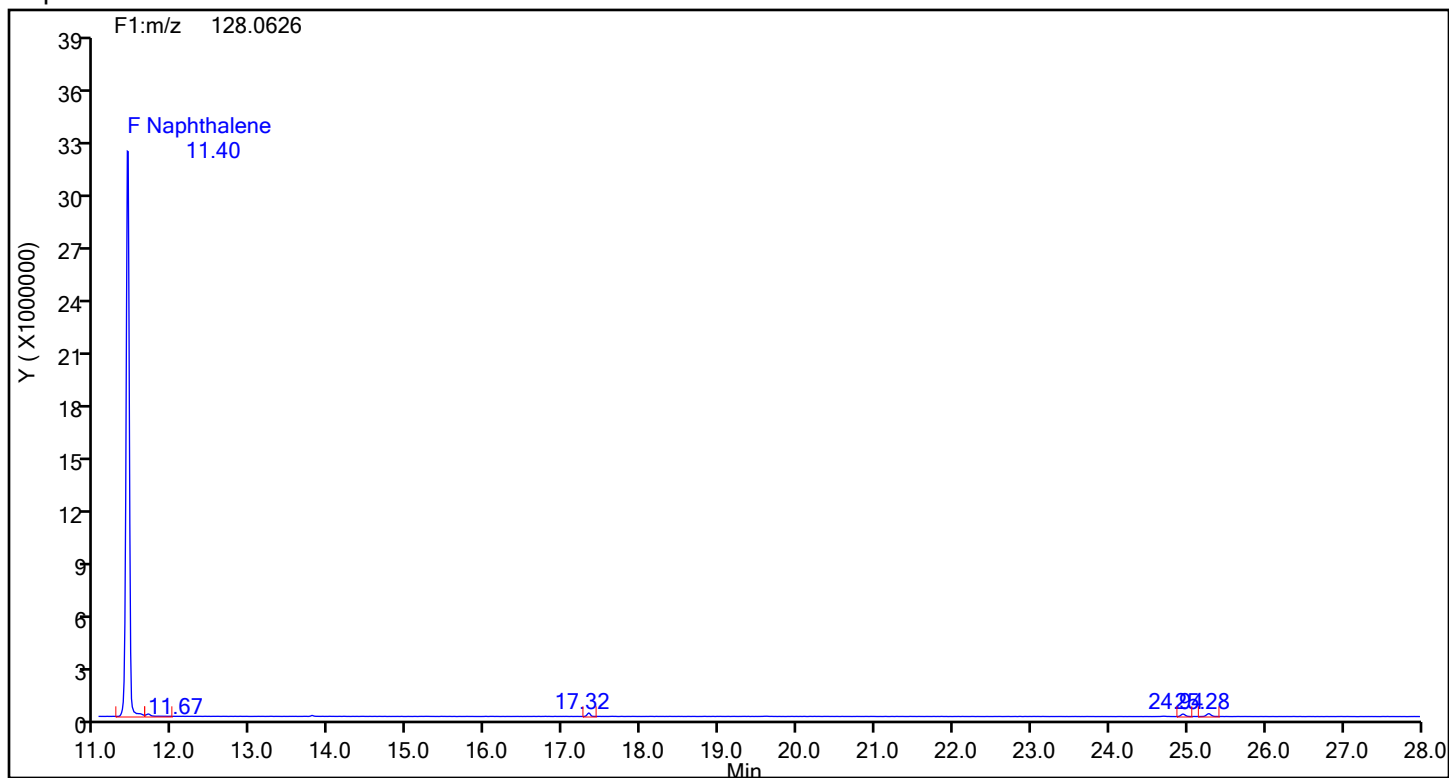
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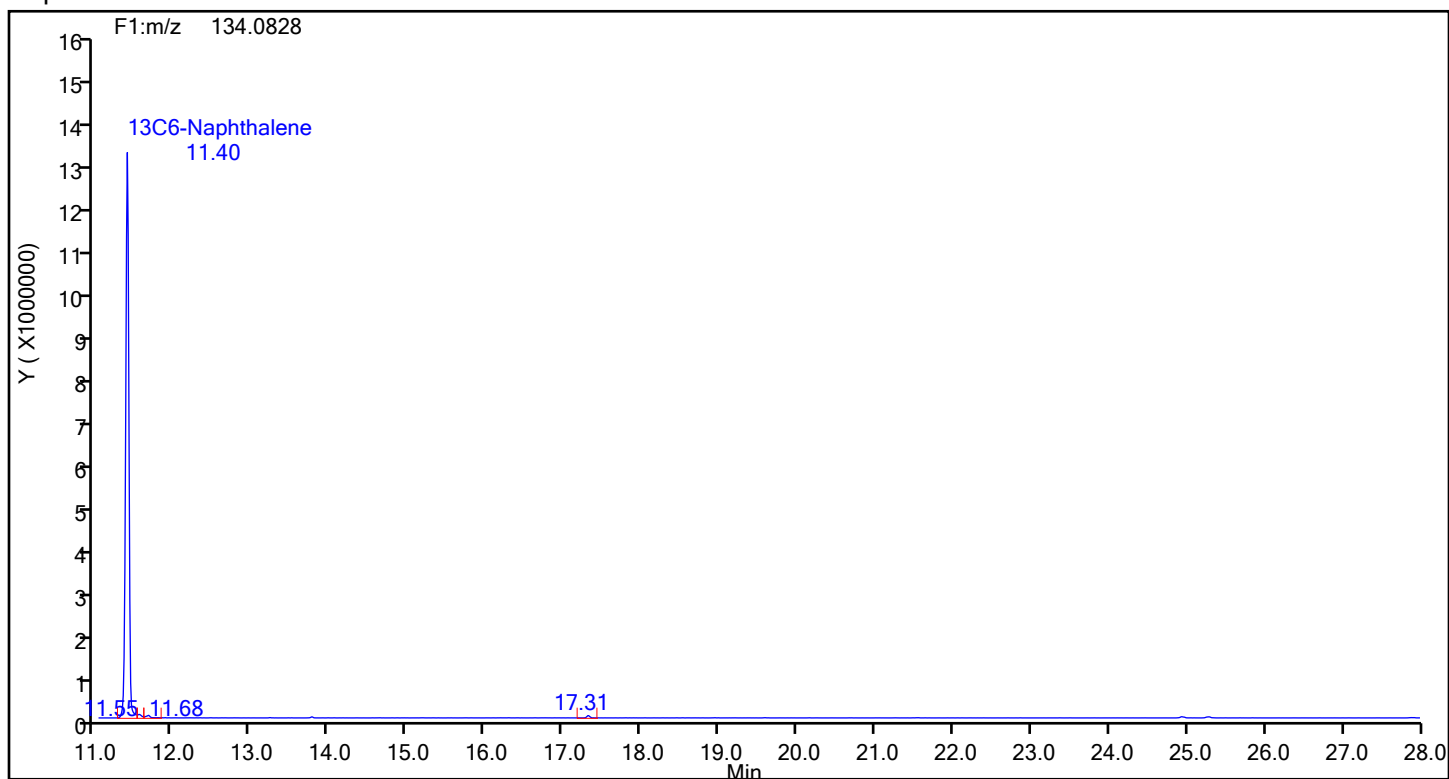
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Worklist#: 88812 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards

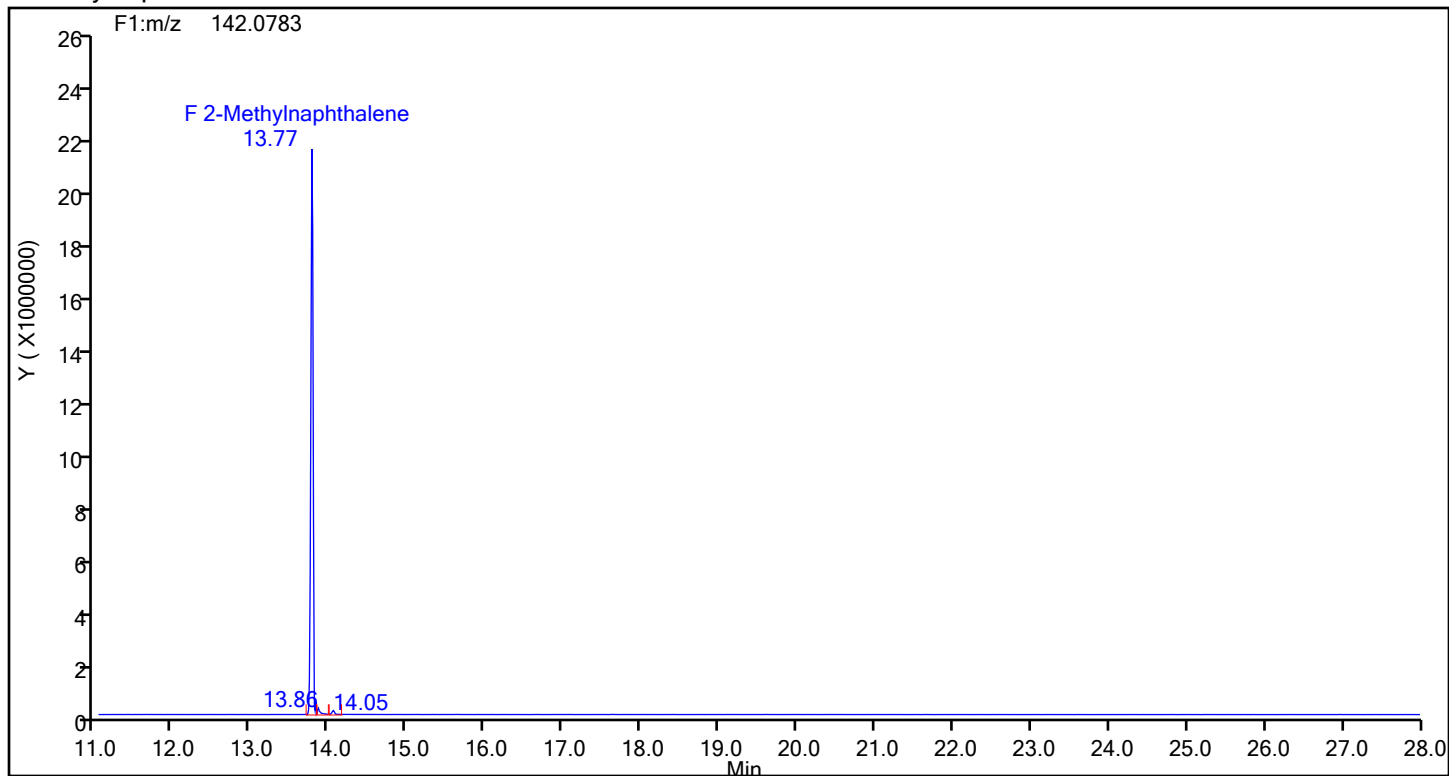




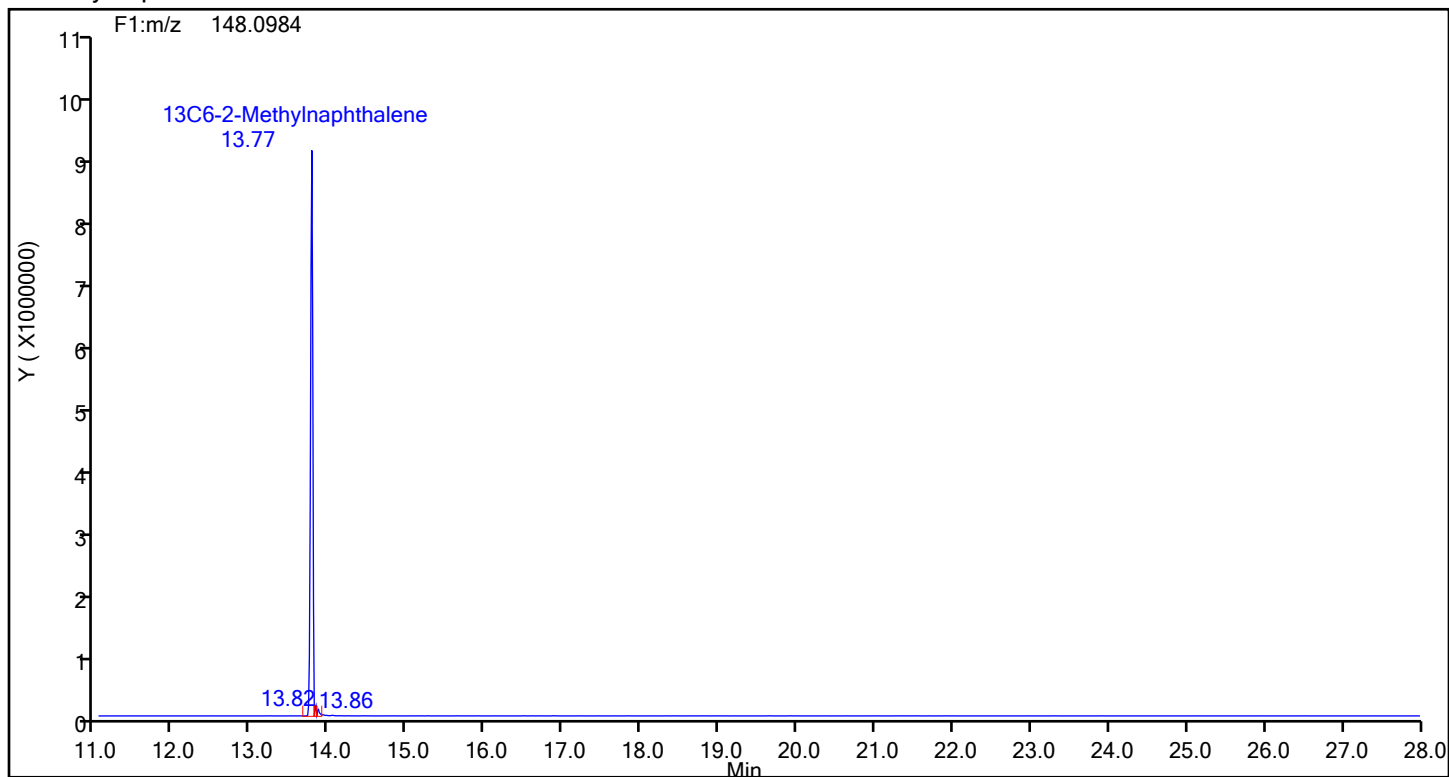
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## 2-Methylnaphthalene



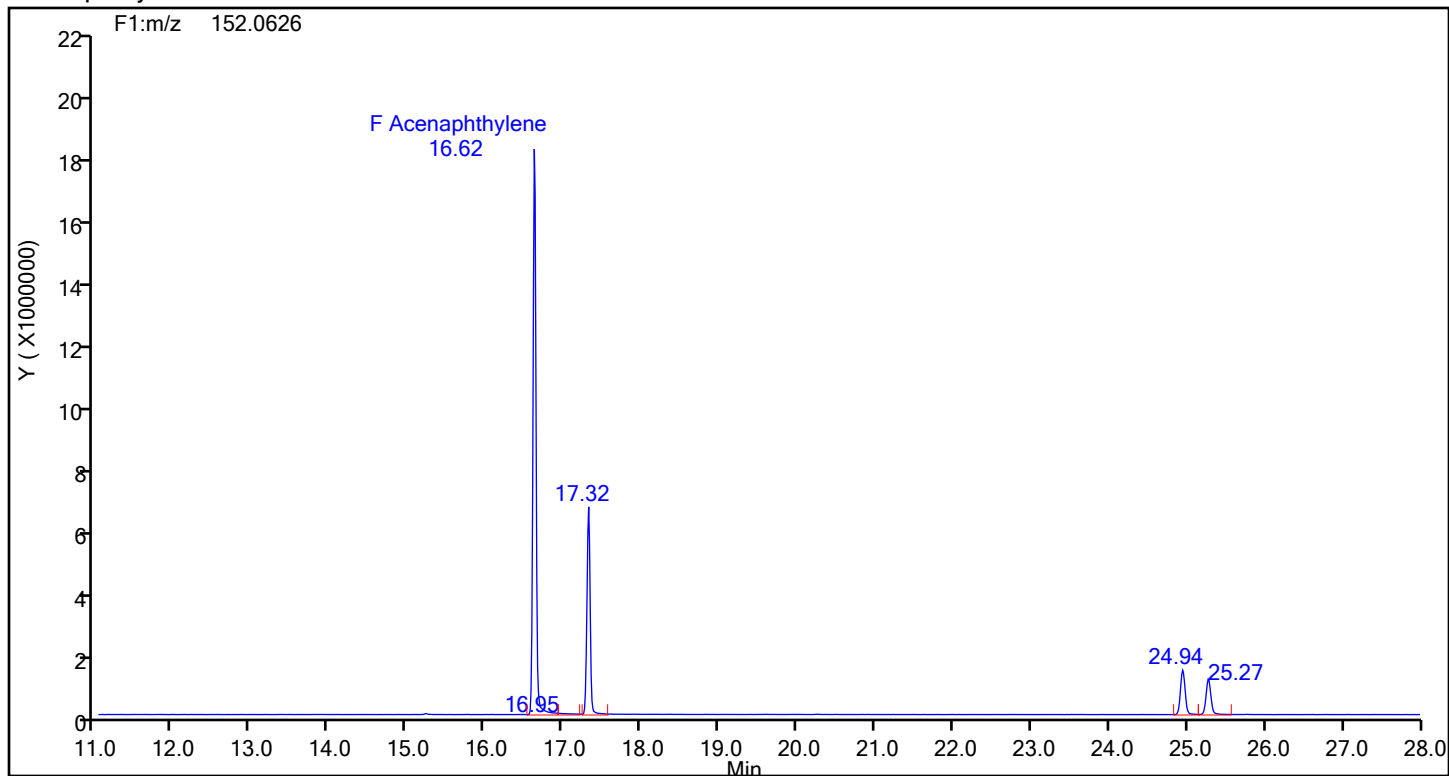
## 2-Methylnaphthalene Standards



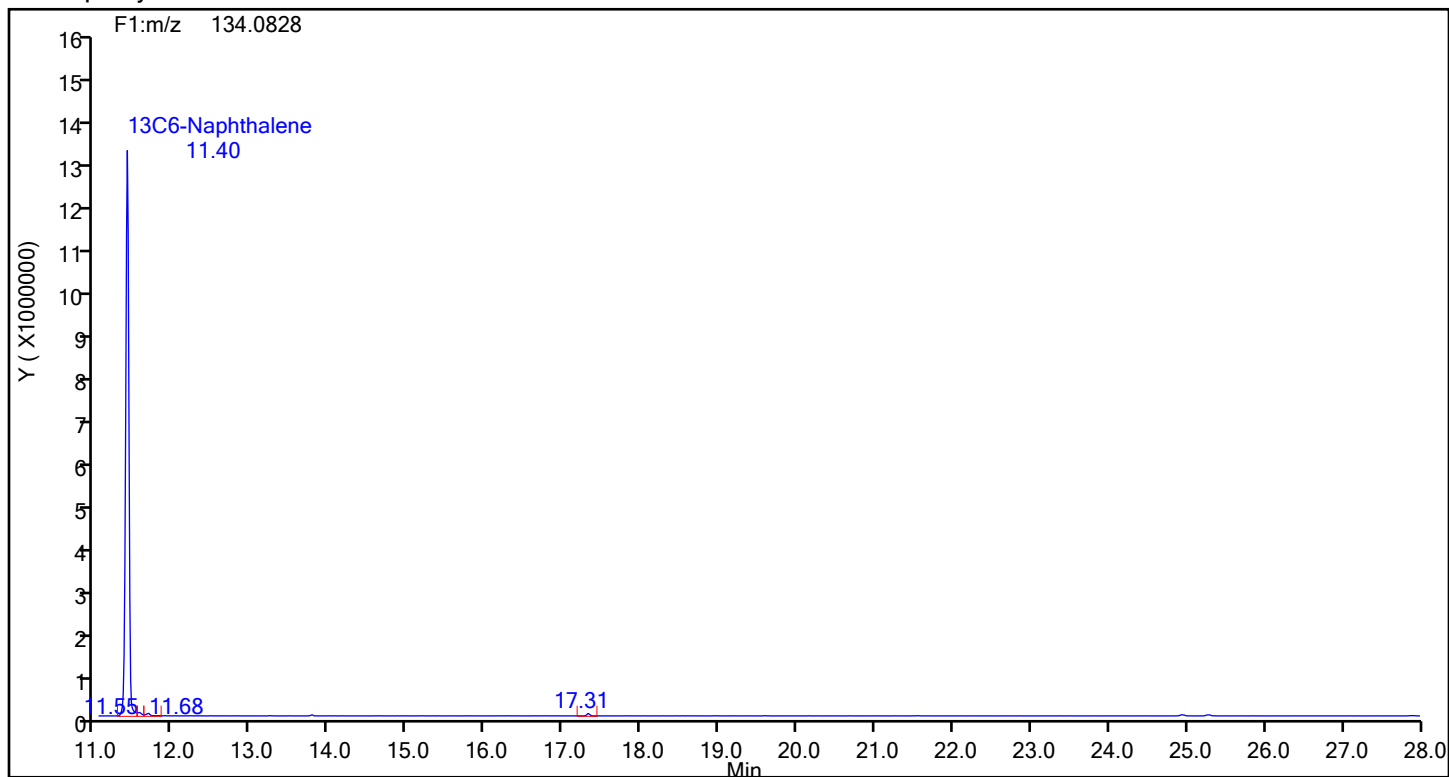
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## Acenaphthylene

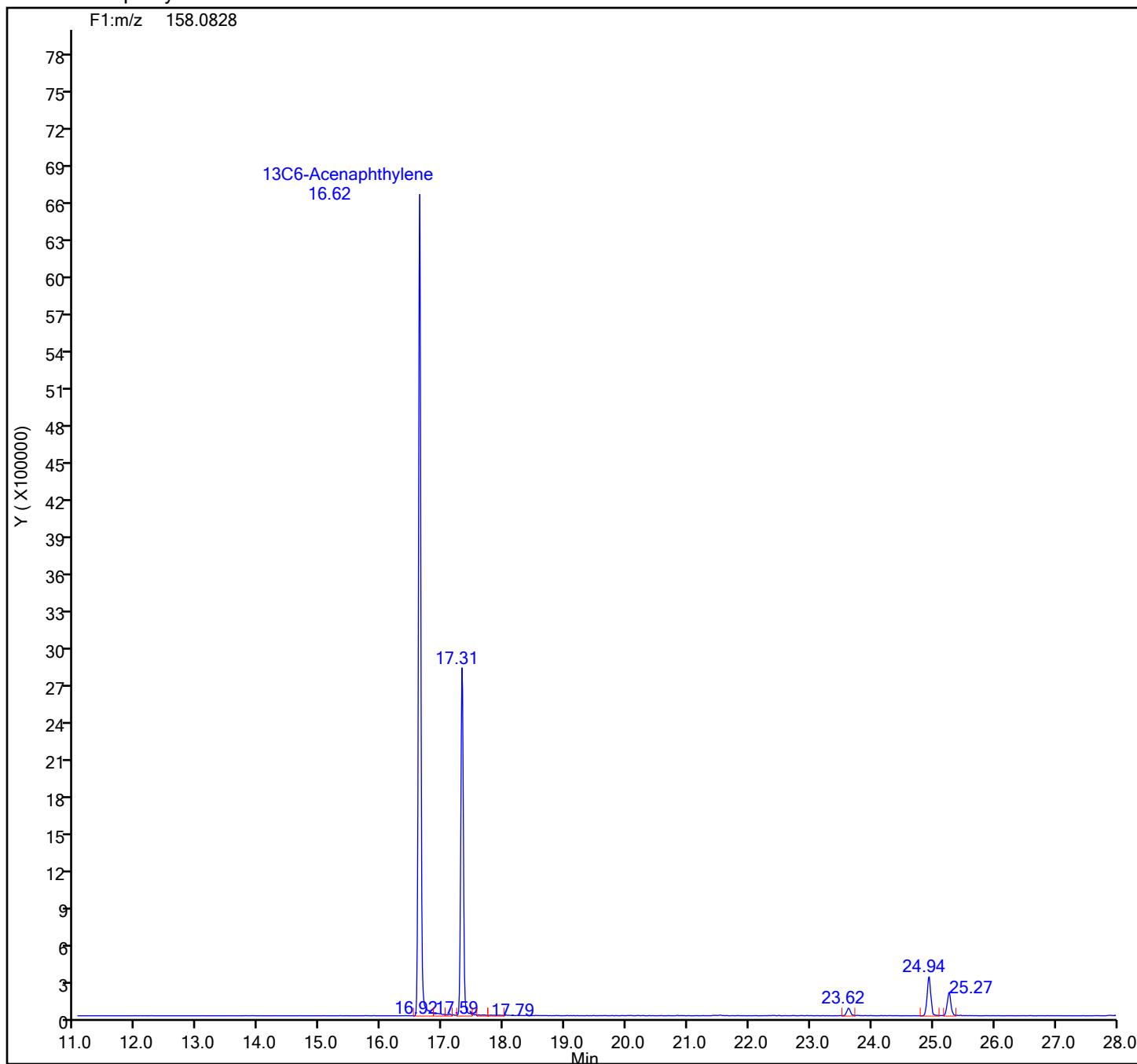


## Acenaphthylene Standards



## Eurofins Knoxville

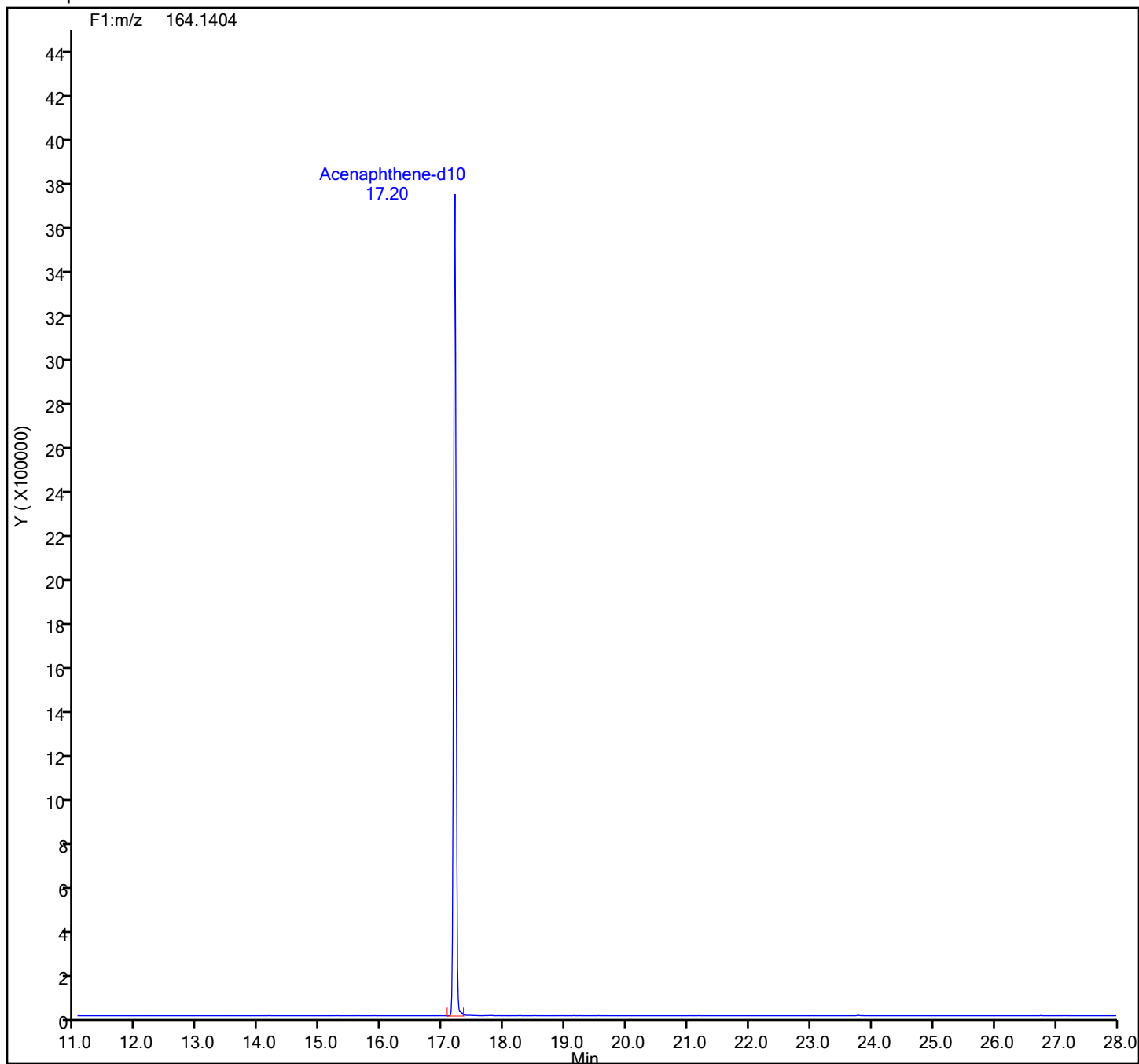
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13C6-Acenaphthylene Standards



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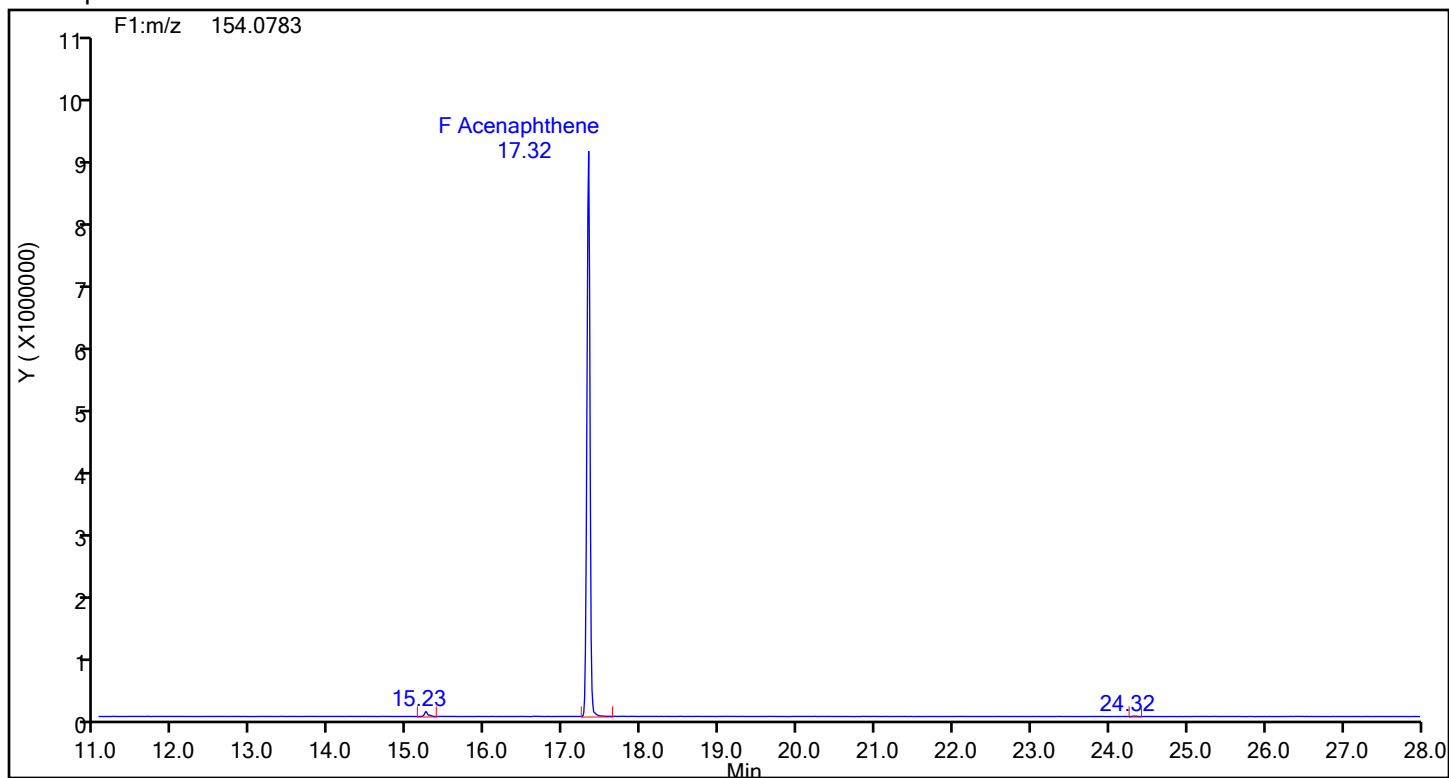
## Acenaphthene-d10 Standards



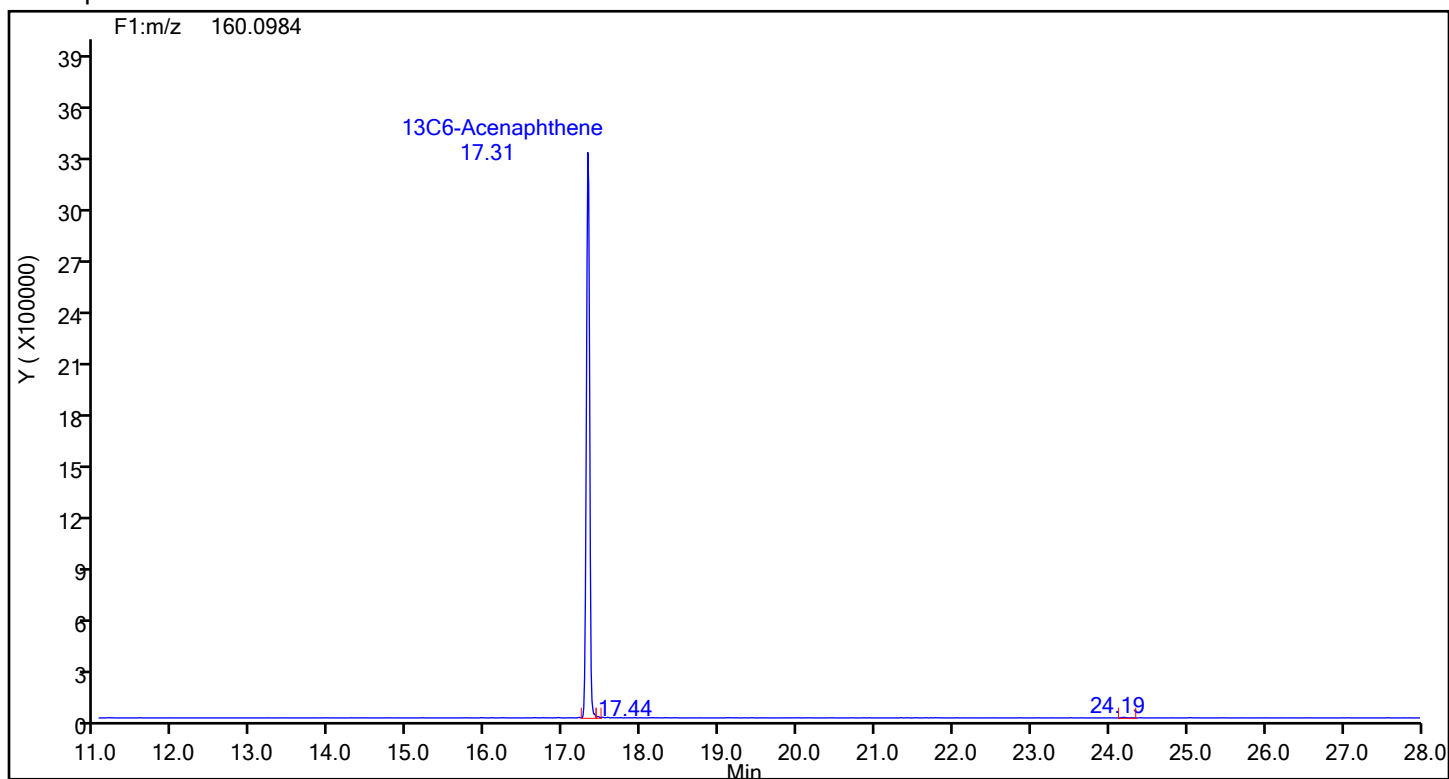
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## Acenaphthene



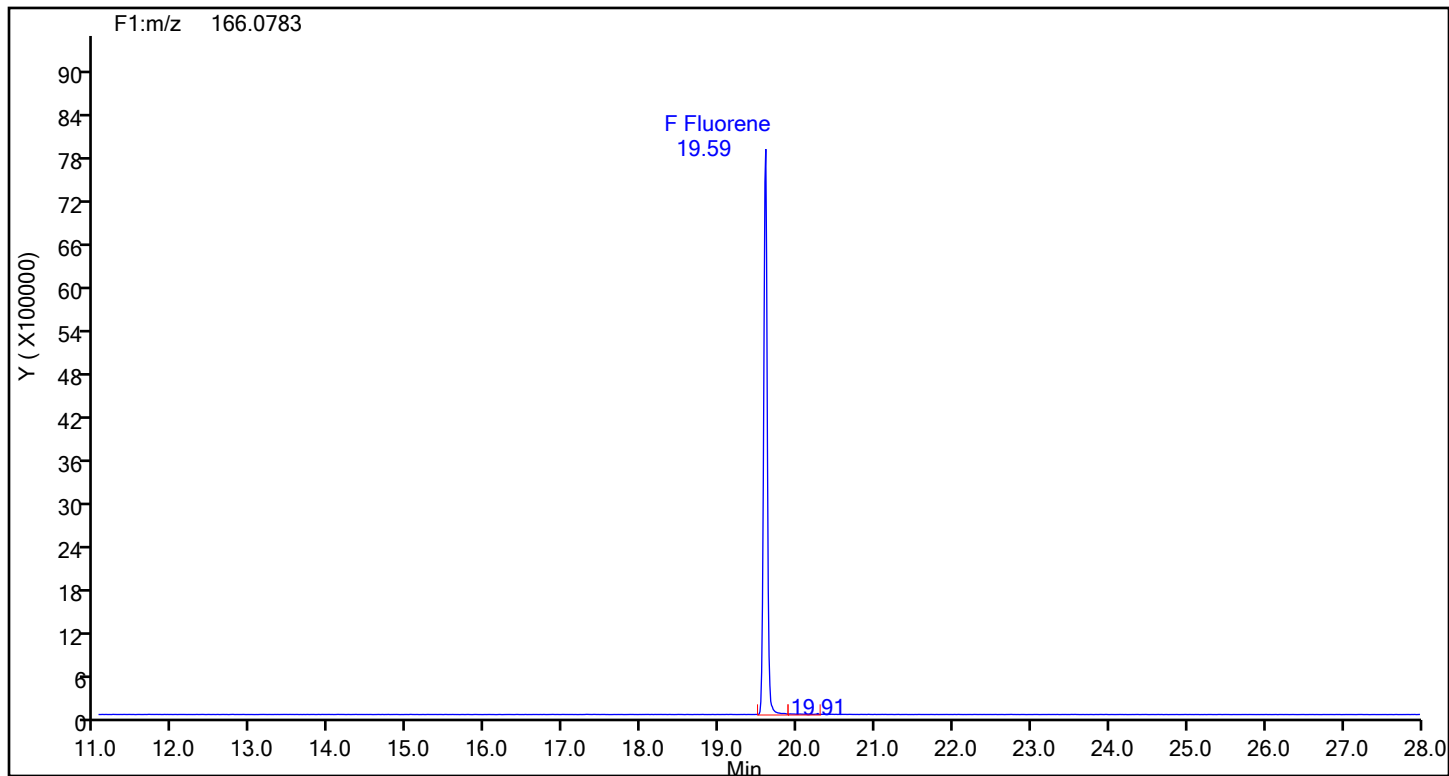
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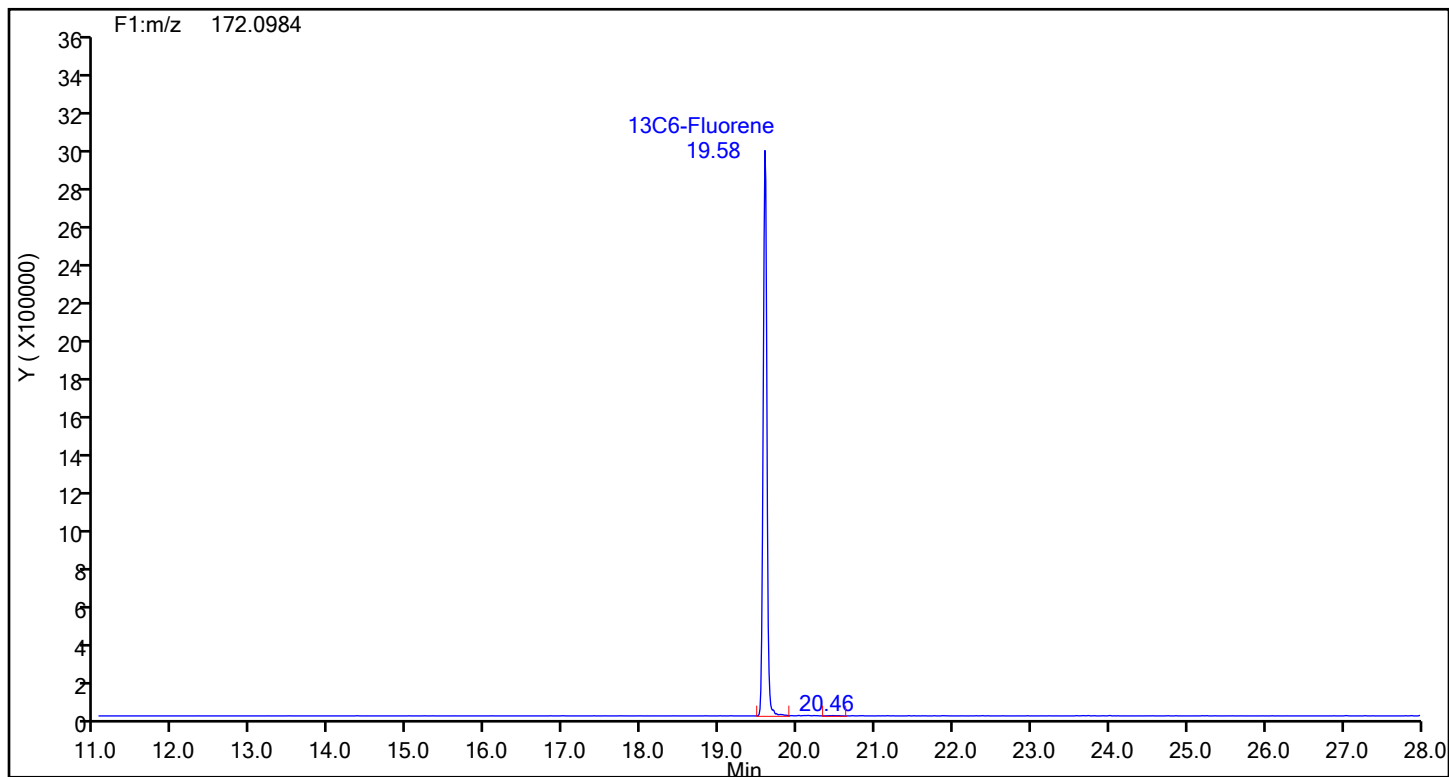
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## Fluorene

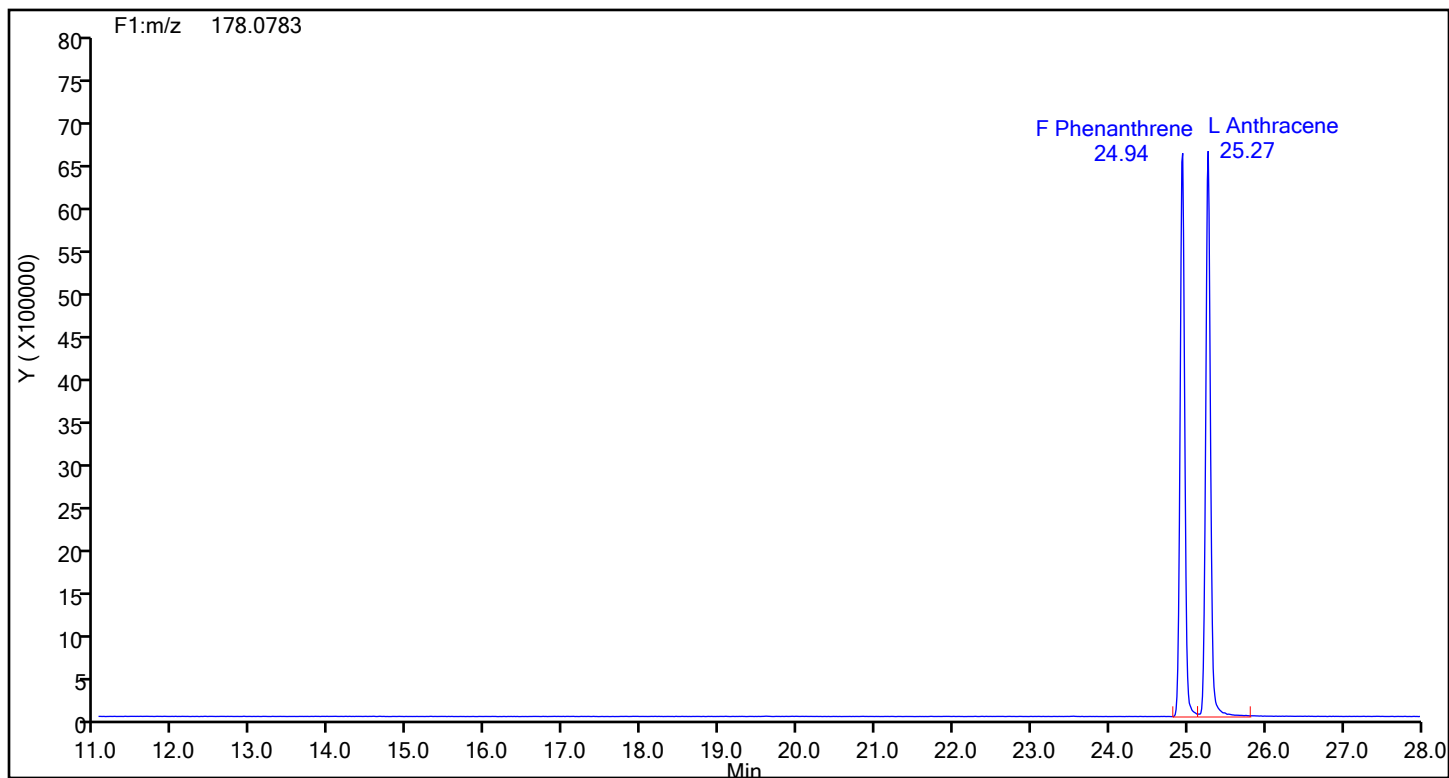


## Fluorene Standards

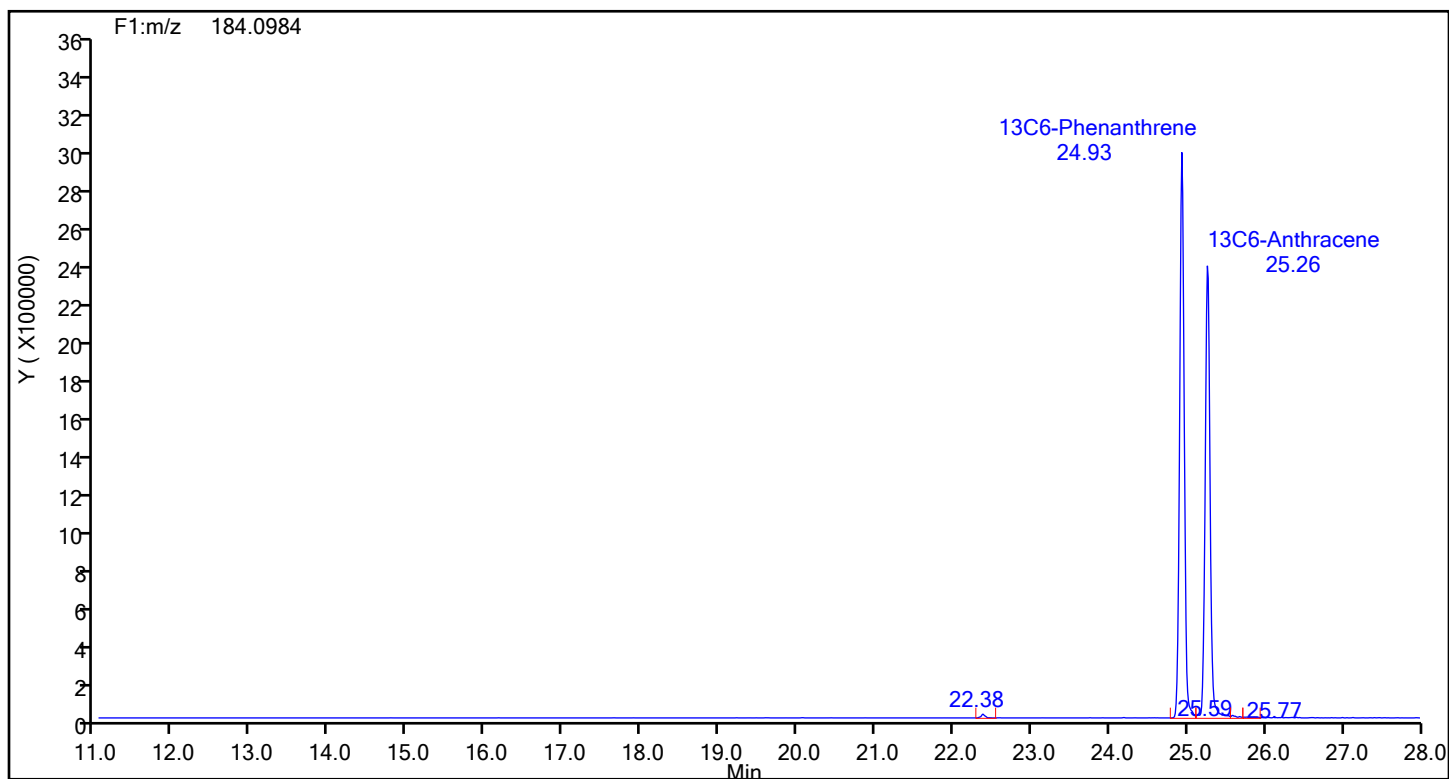


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Phenanthrene

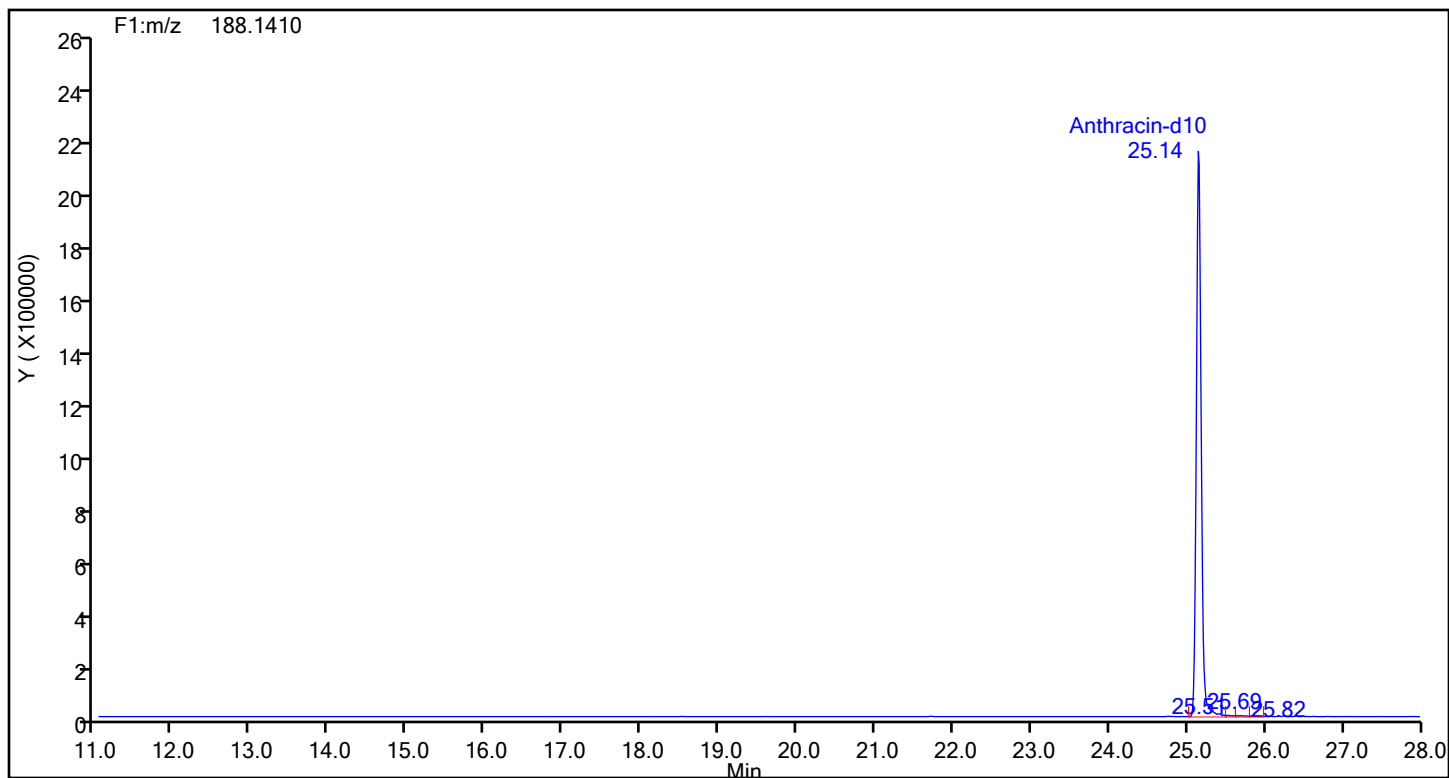


## Phenanthrene Standards

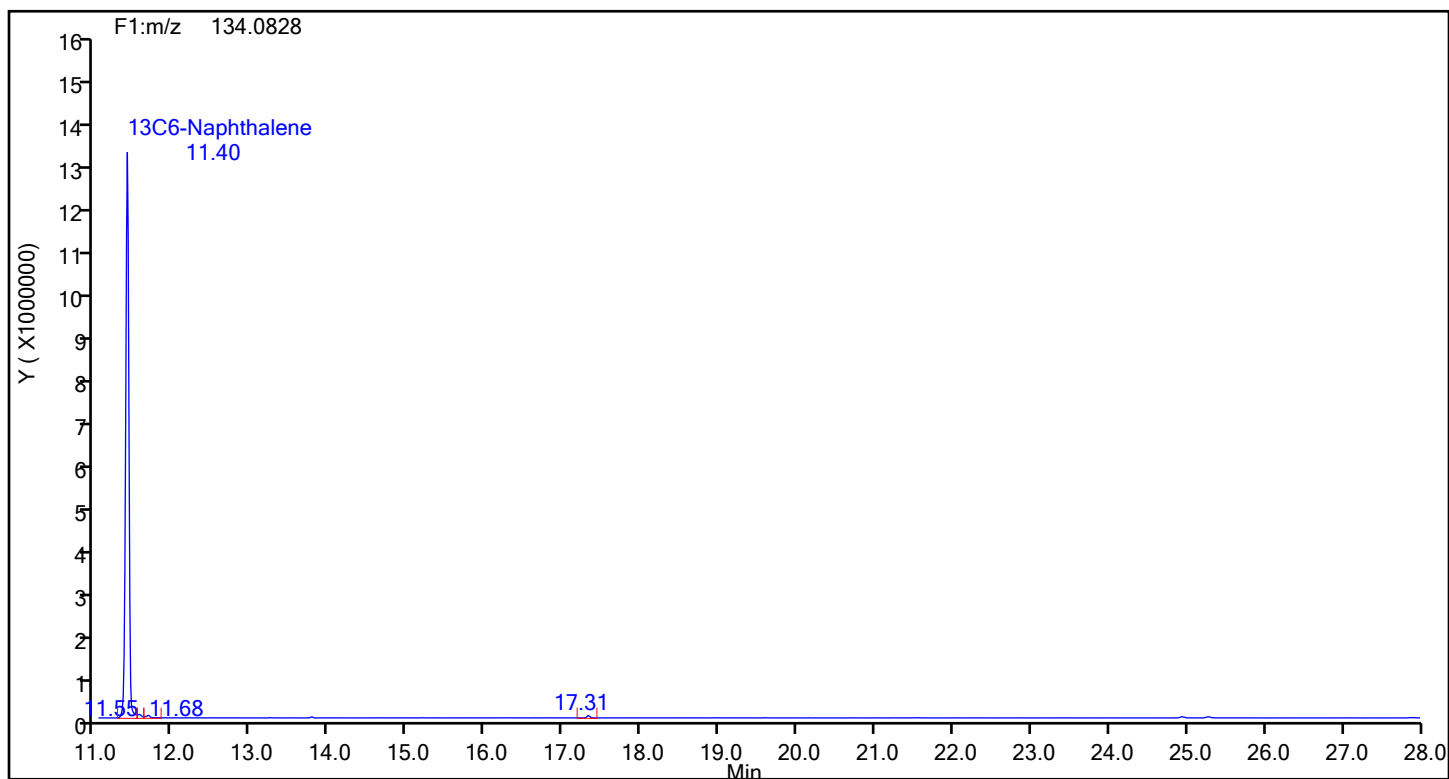


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Anthracin-d10



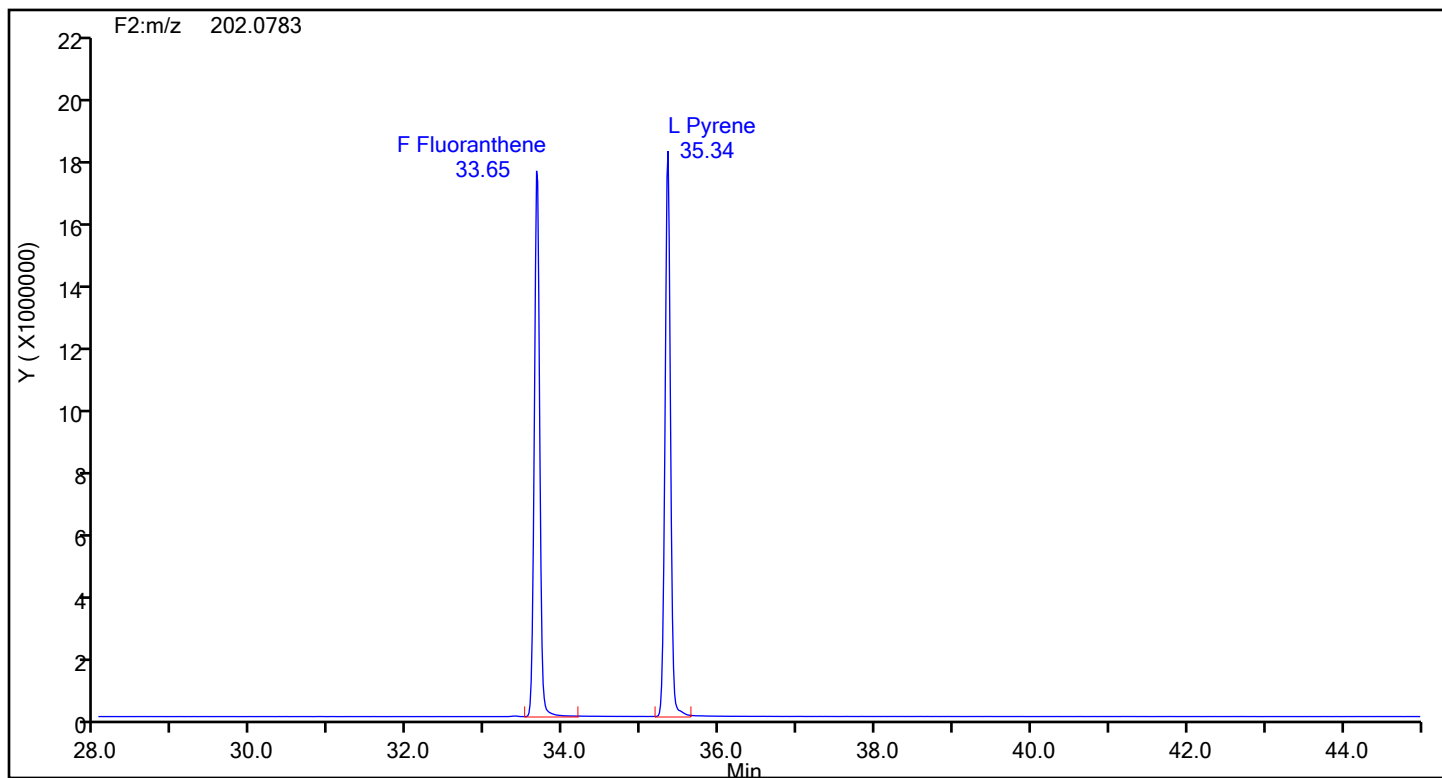
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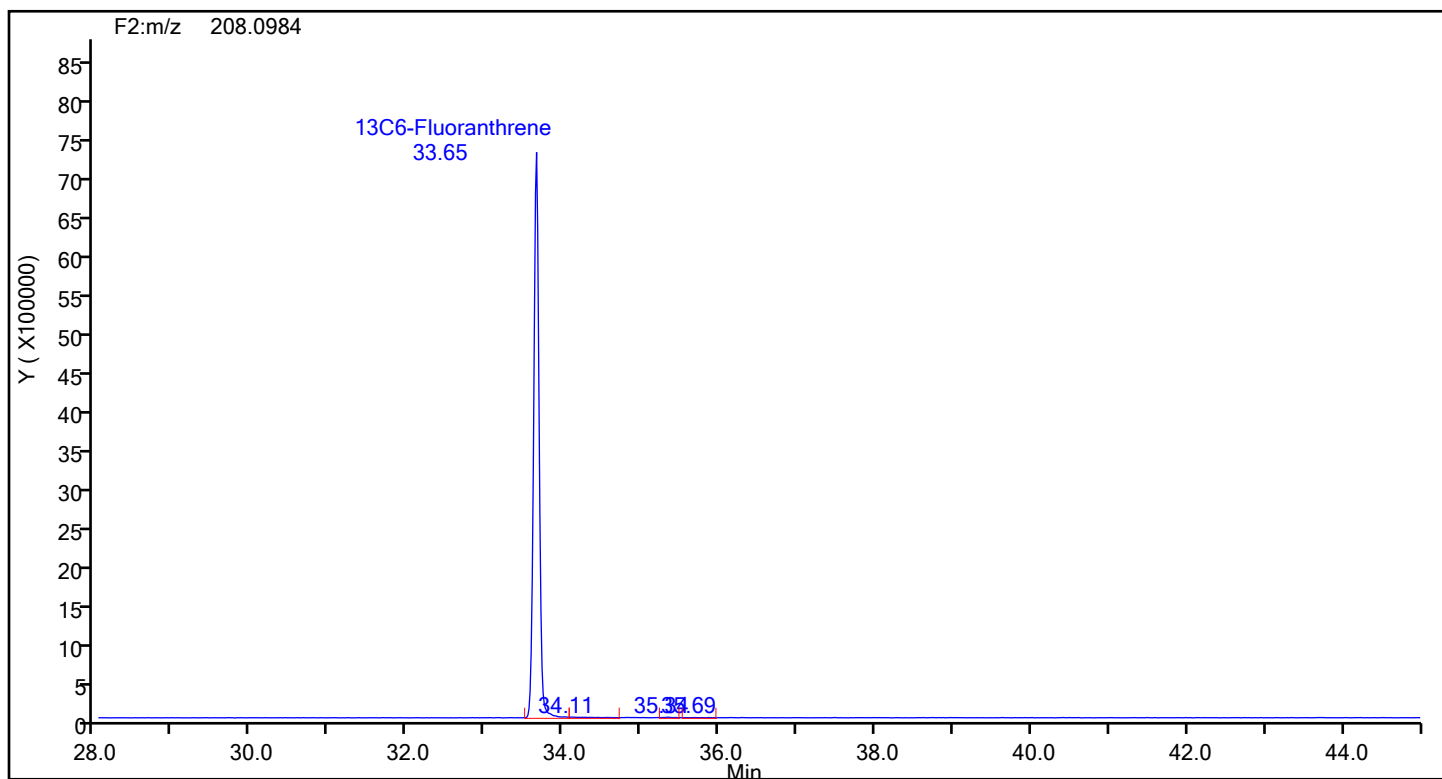


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Fluoranthene



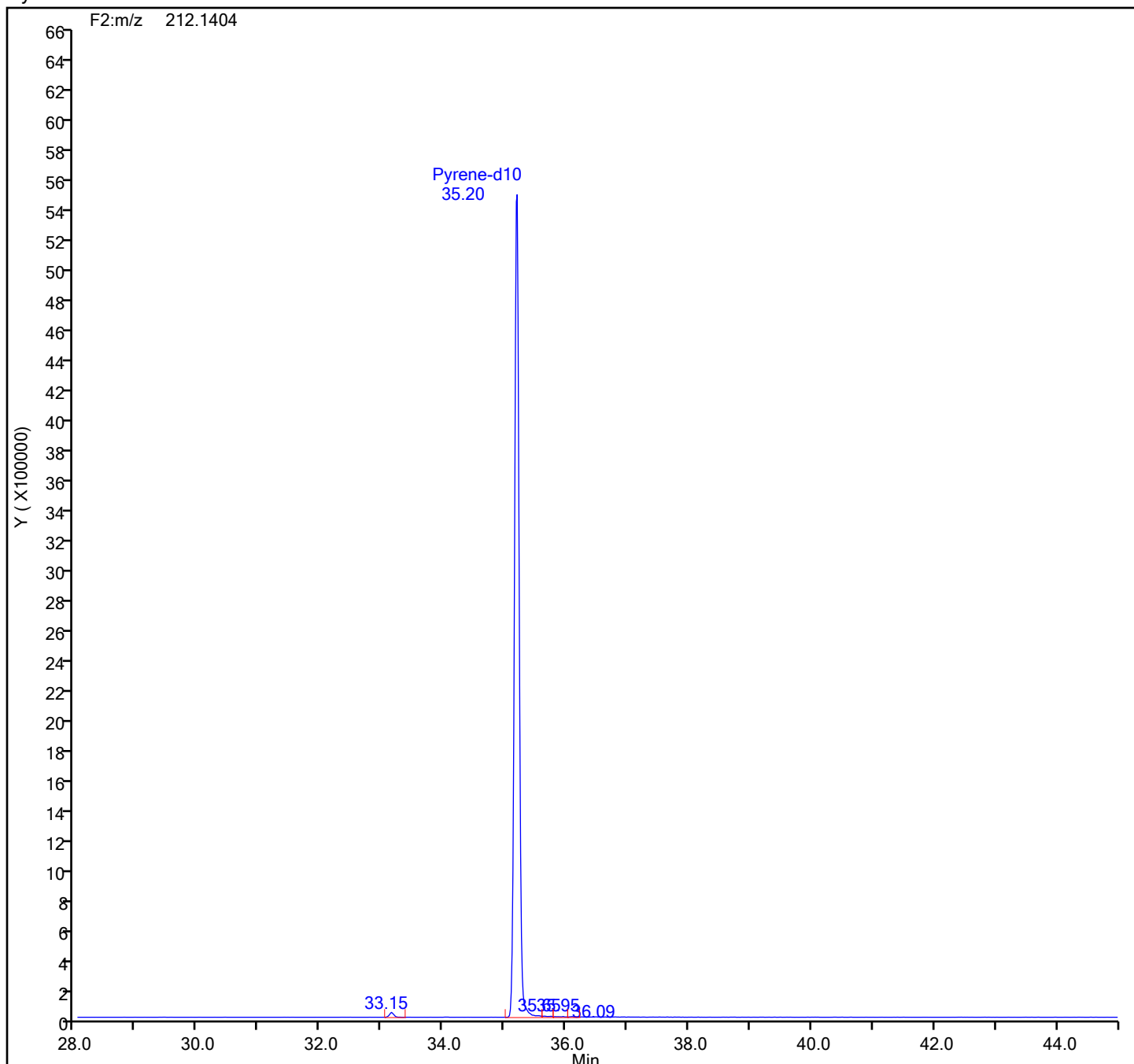
## Fluoranthene Standards



## Eurofins Knoxville

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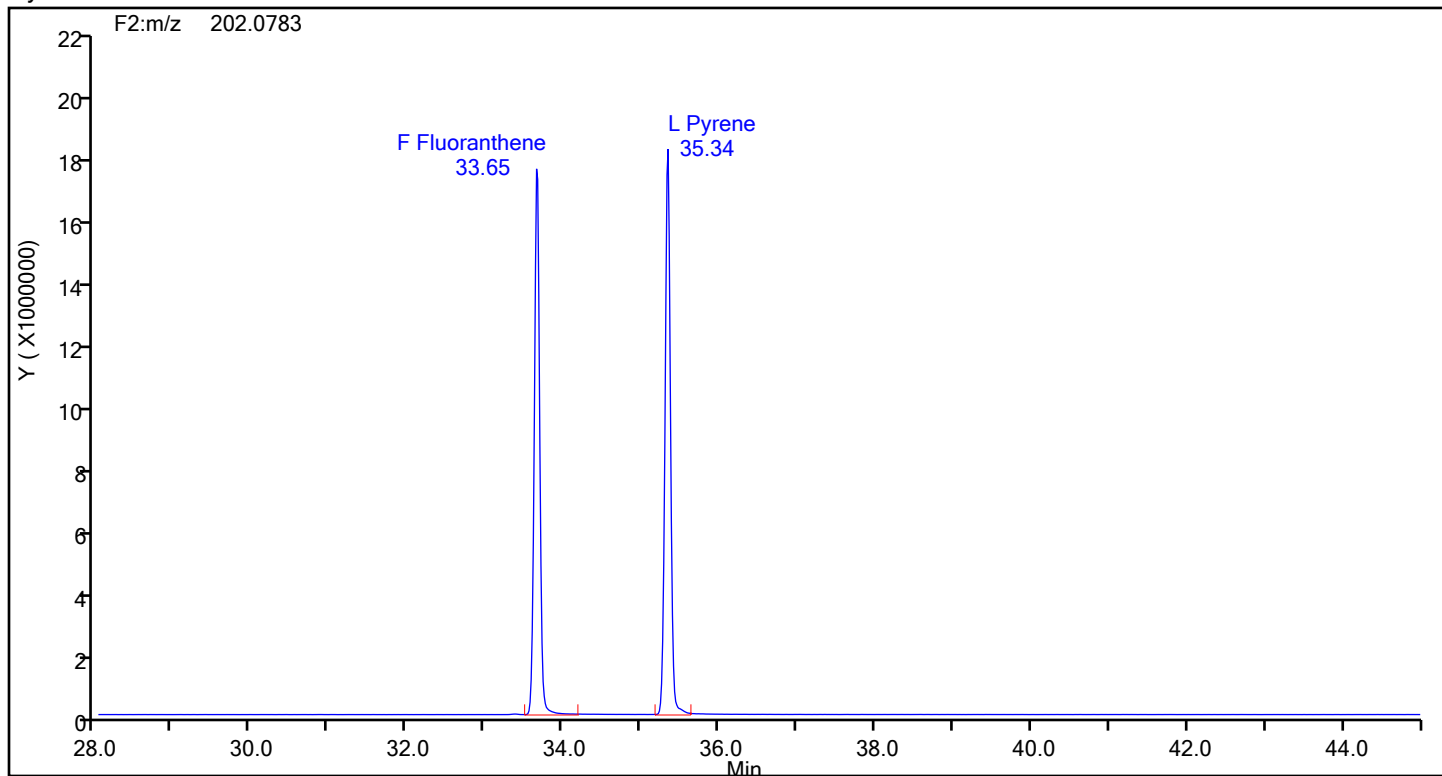
## Pyrene-d10 Standards



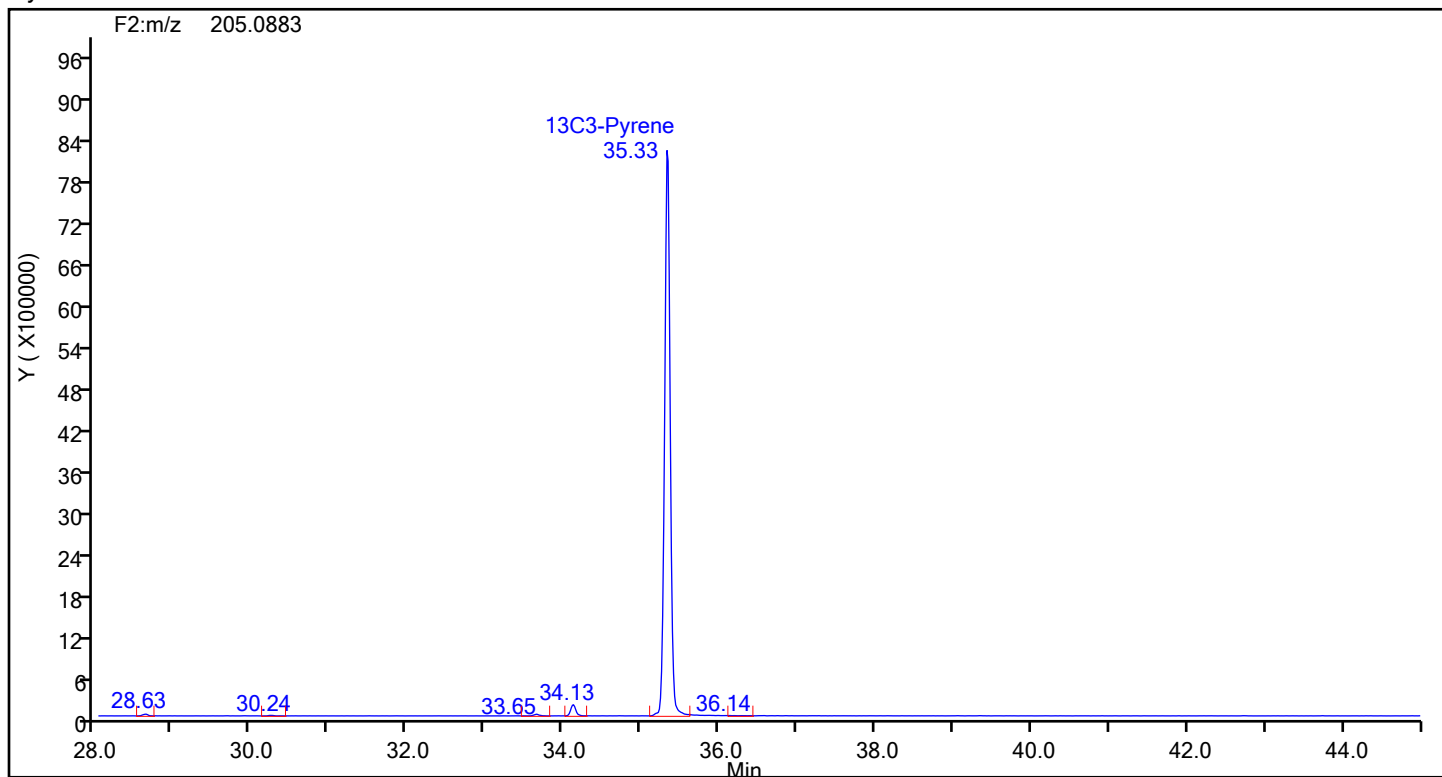
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## Pyrene



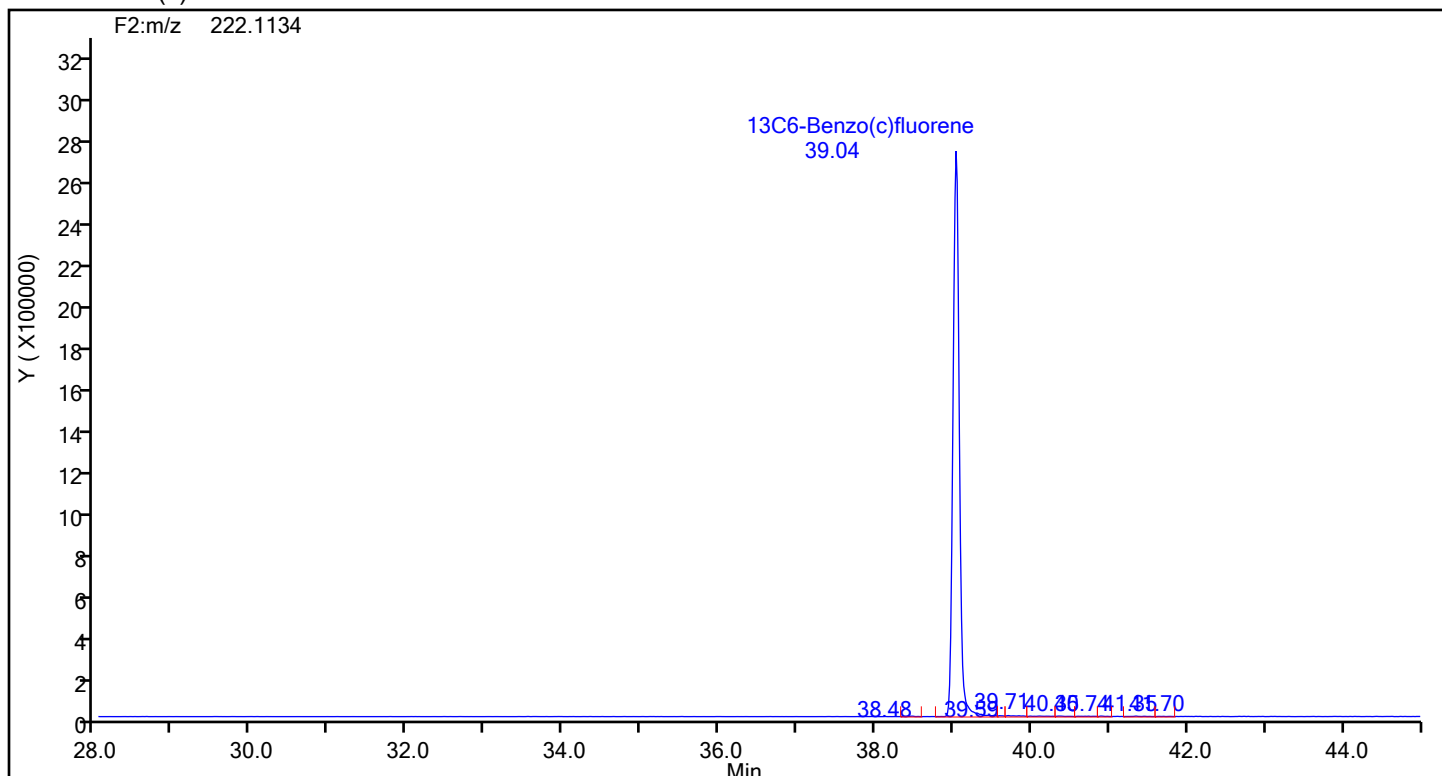
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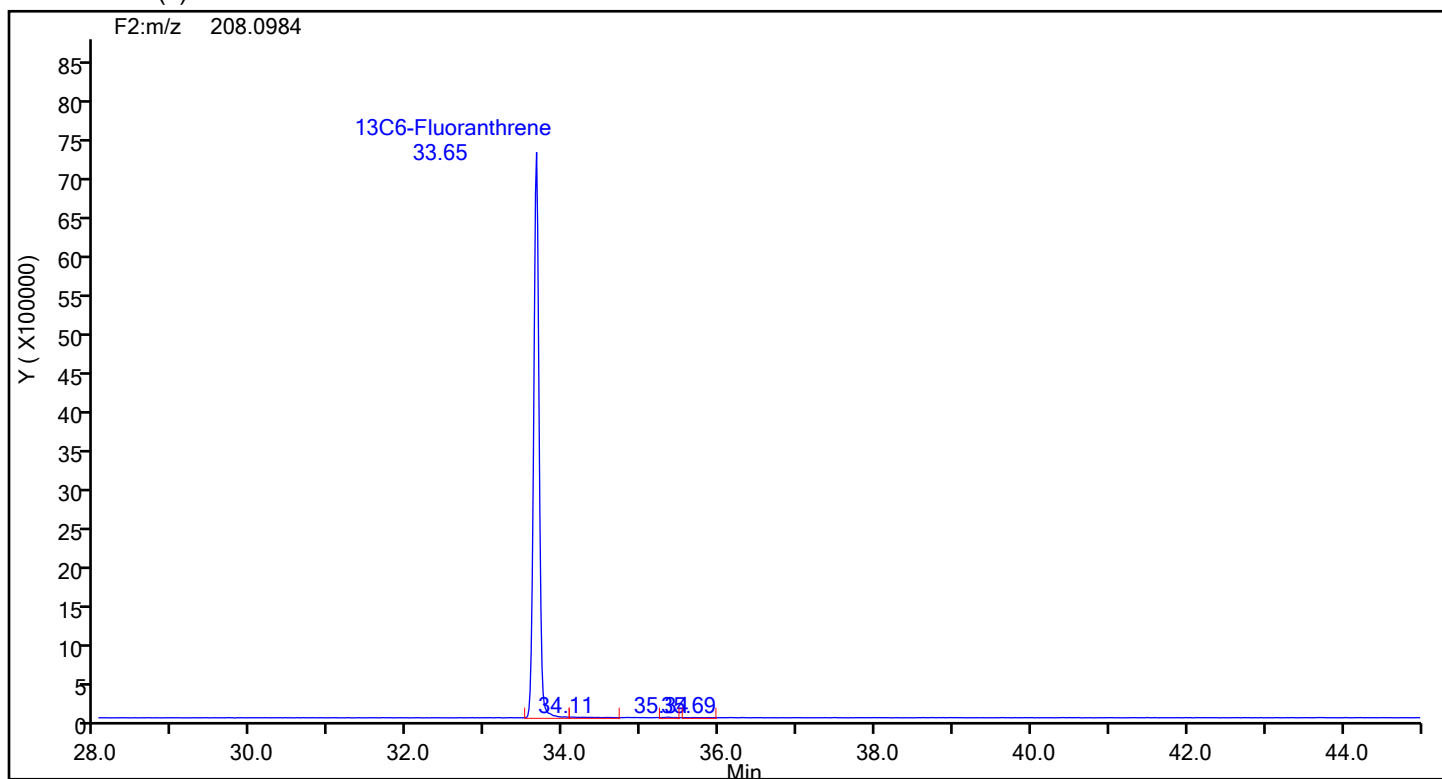
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## 13C6-Benzo(c)fluorene



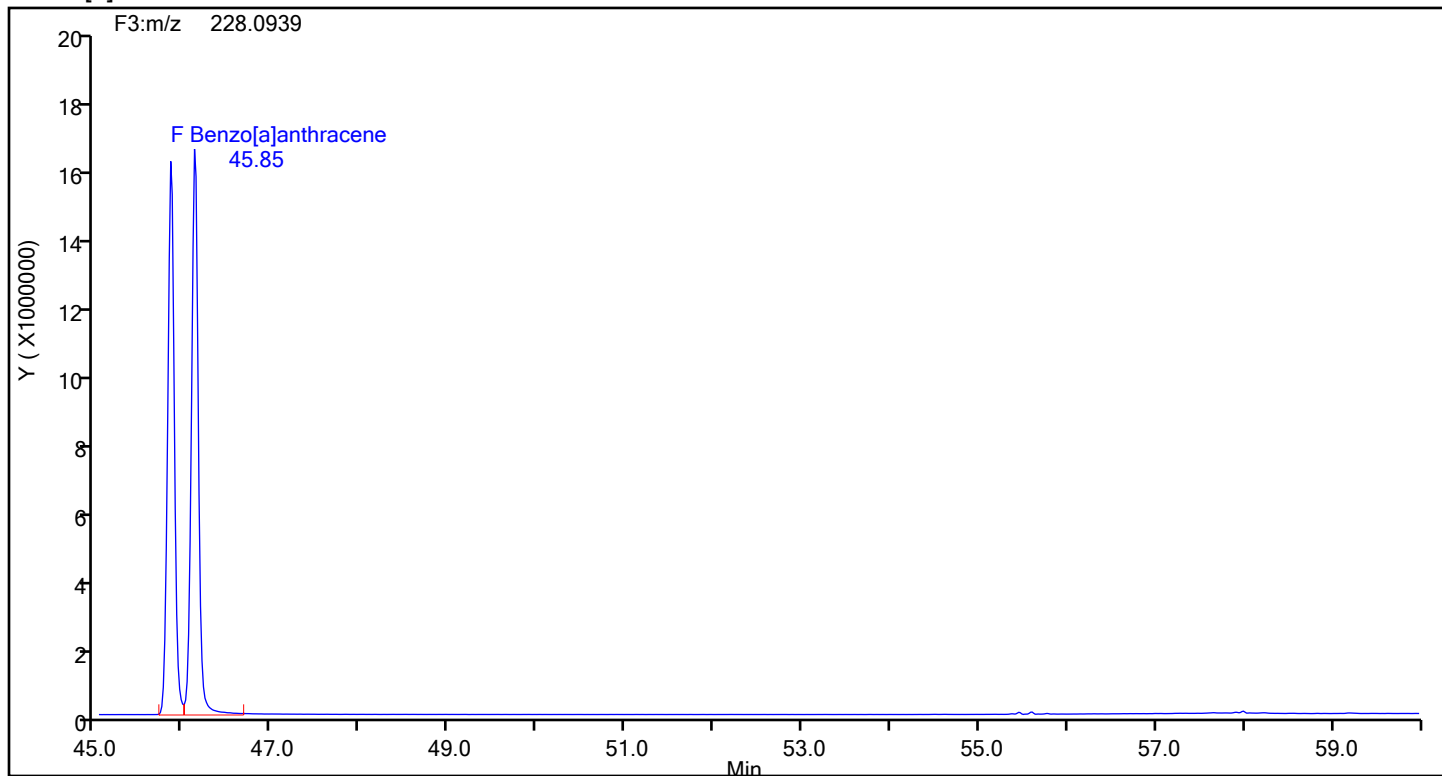
## 13C6-Benzo(c)fluorene Standards



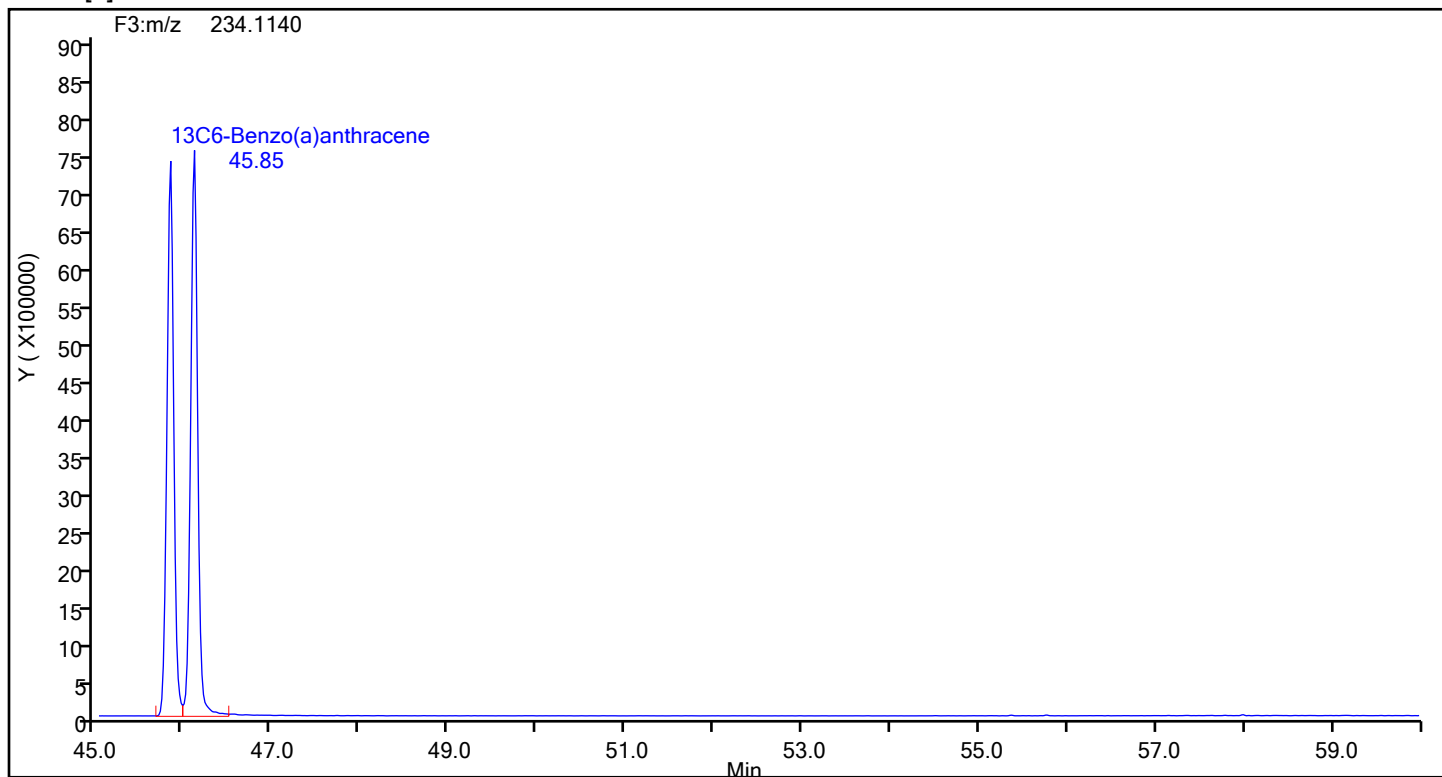
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



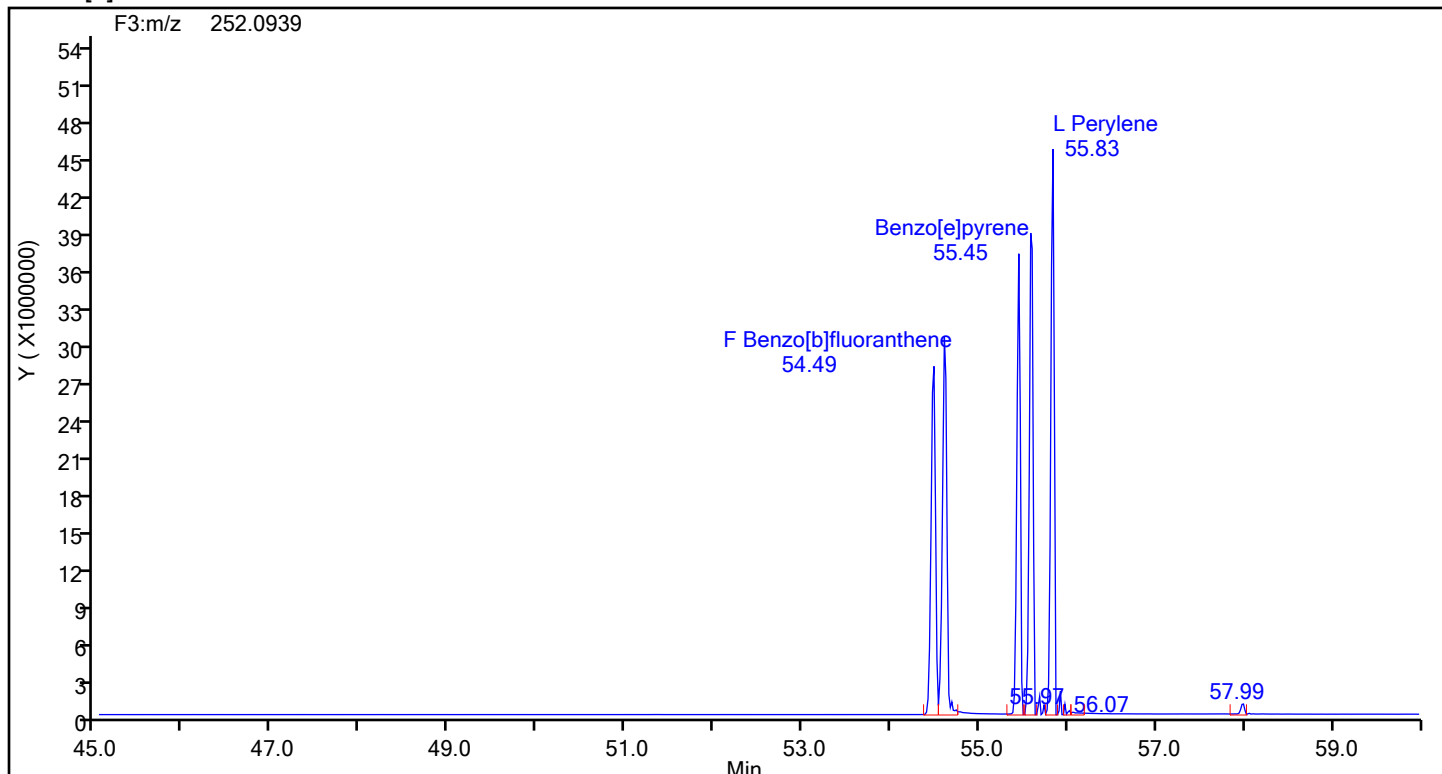
## Benzo[a]anthracene Standards



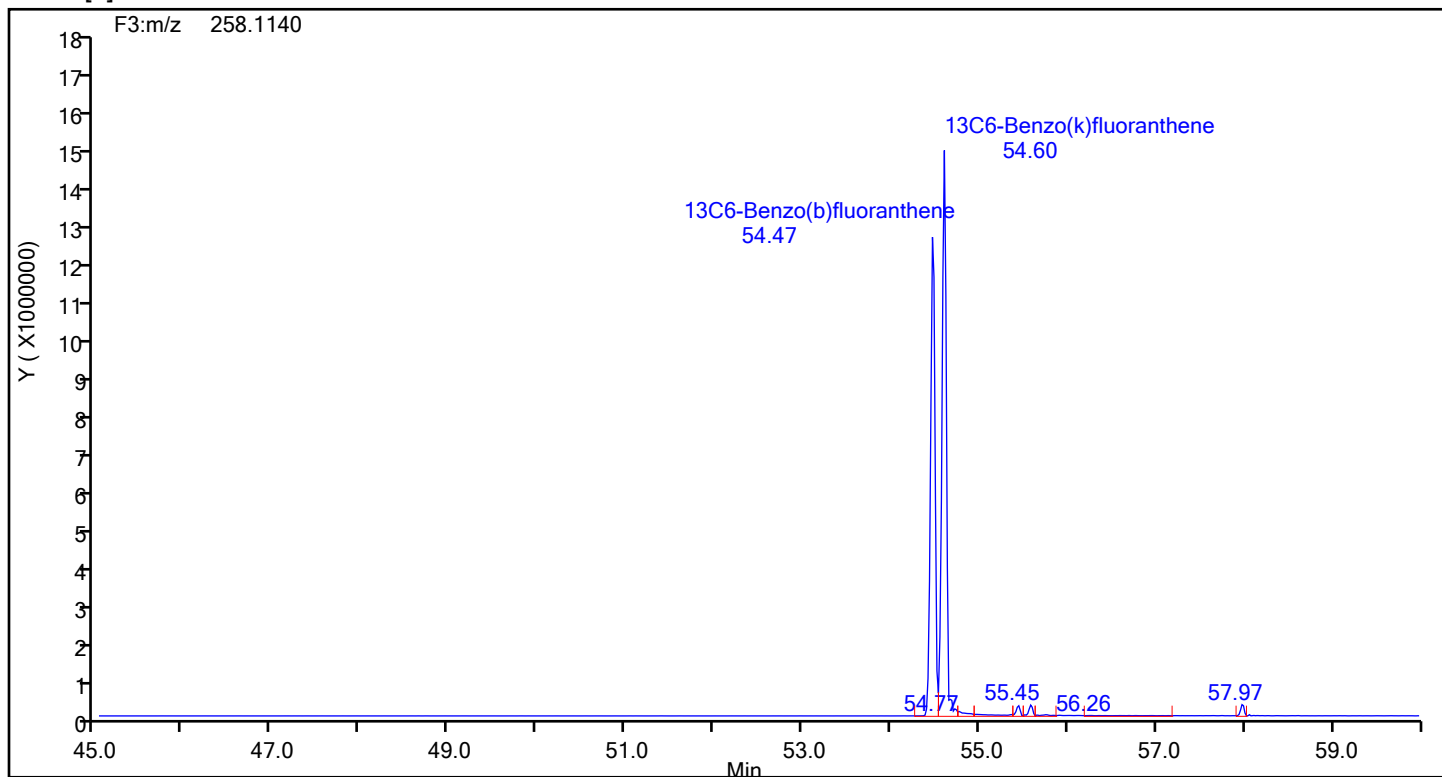
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## Benzo[b]fluoranthene



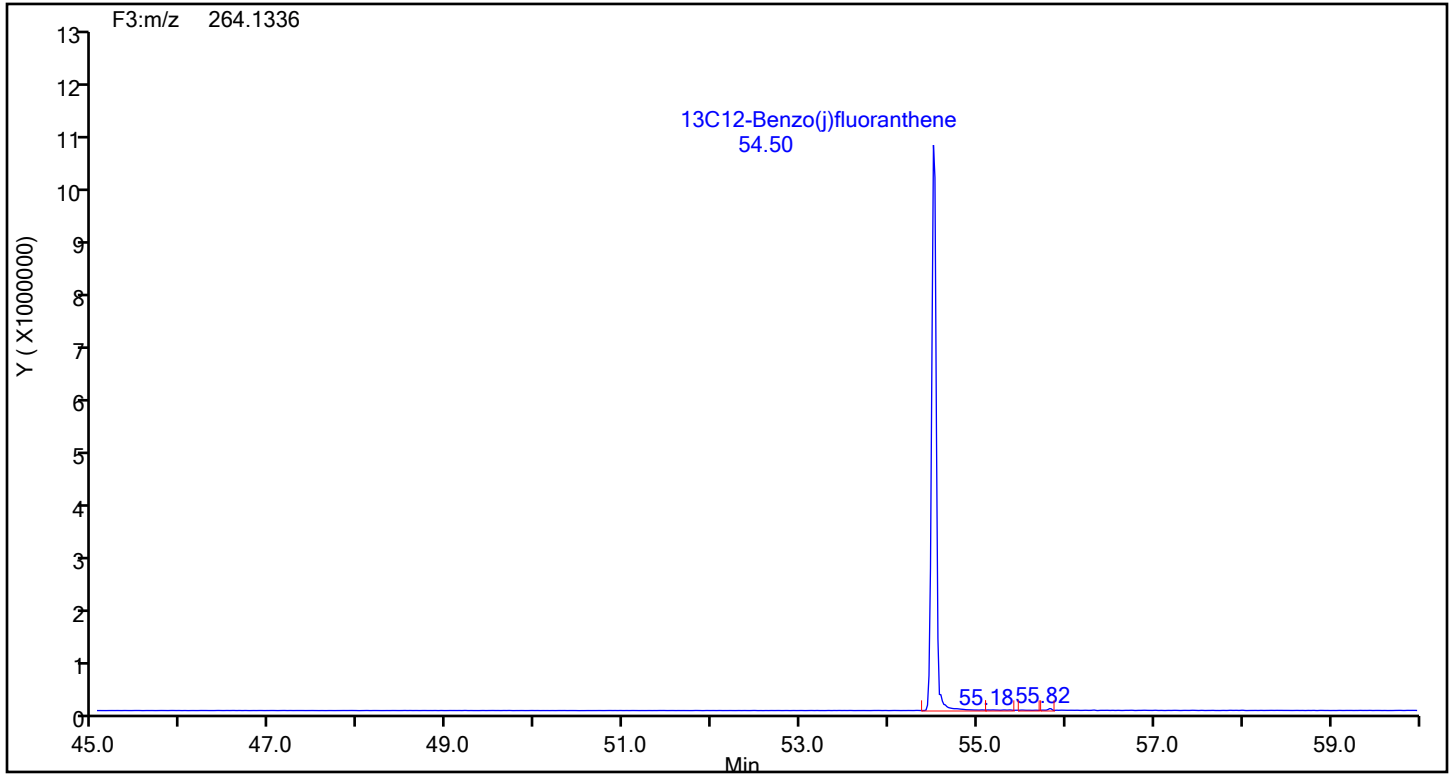
## Benzo[b]fluoranthene Standards



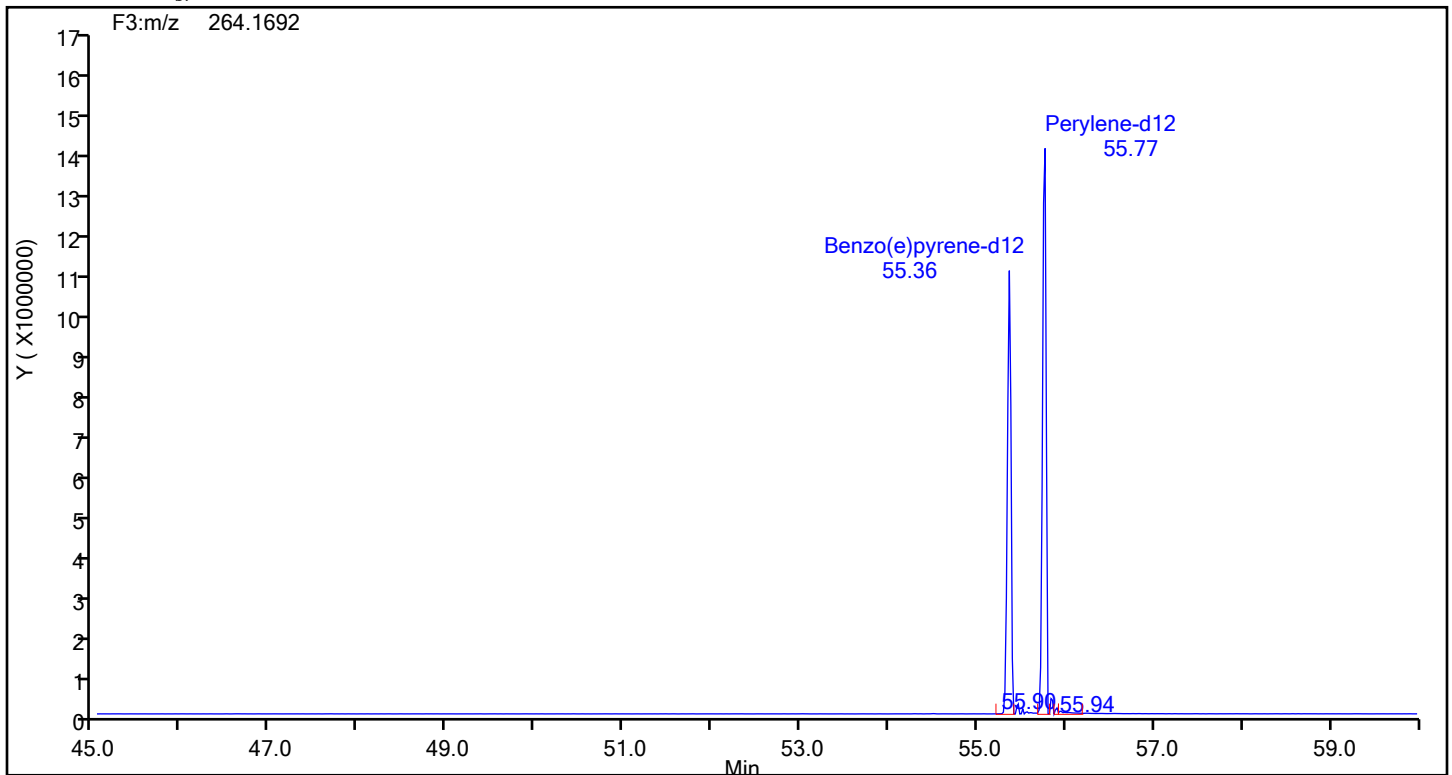
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## 13C12-Benzo(j)fluoranthene



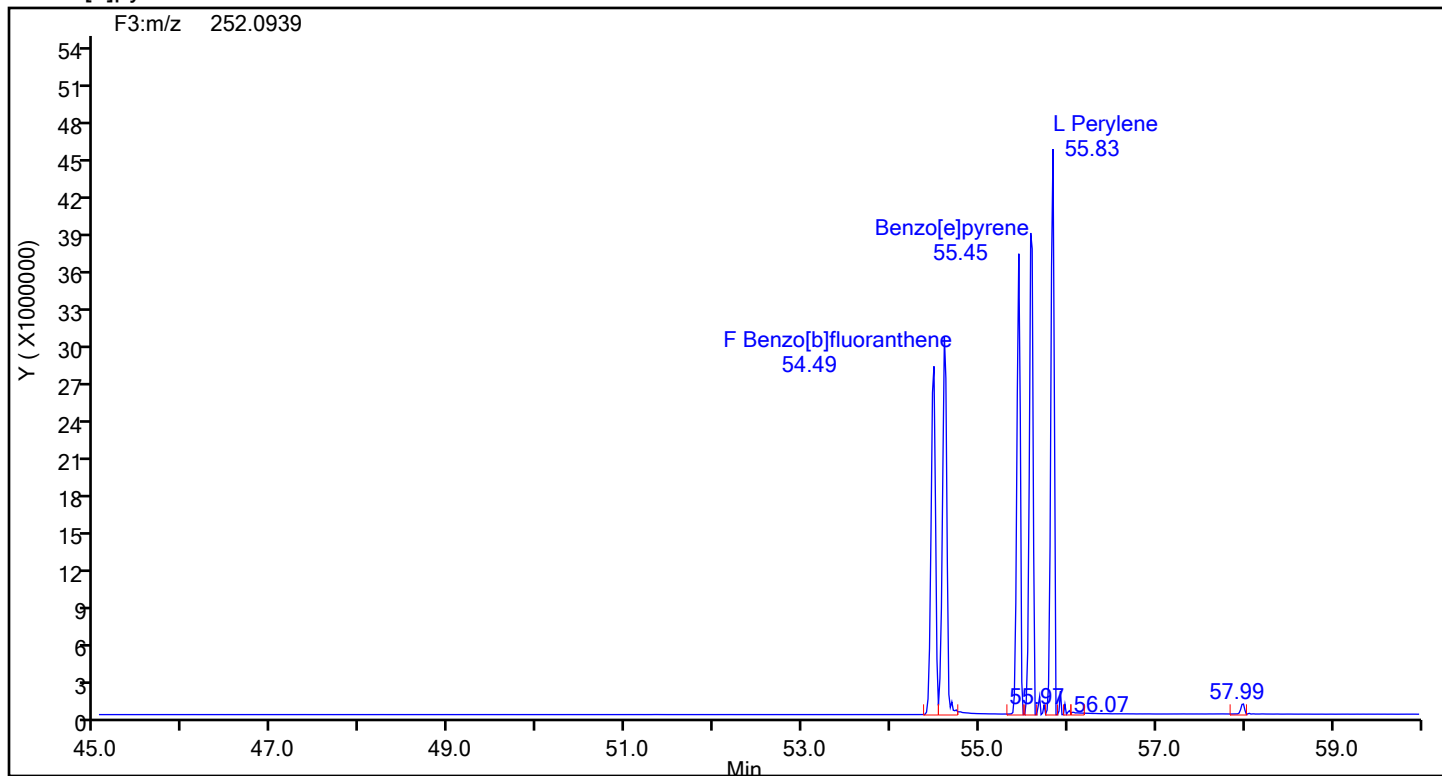
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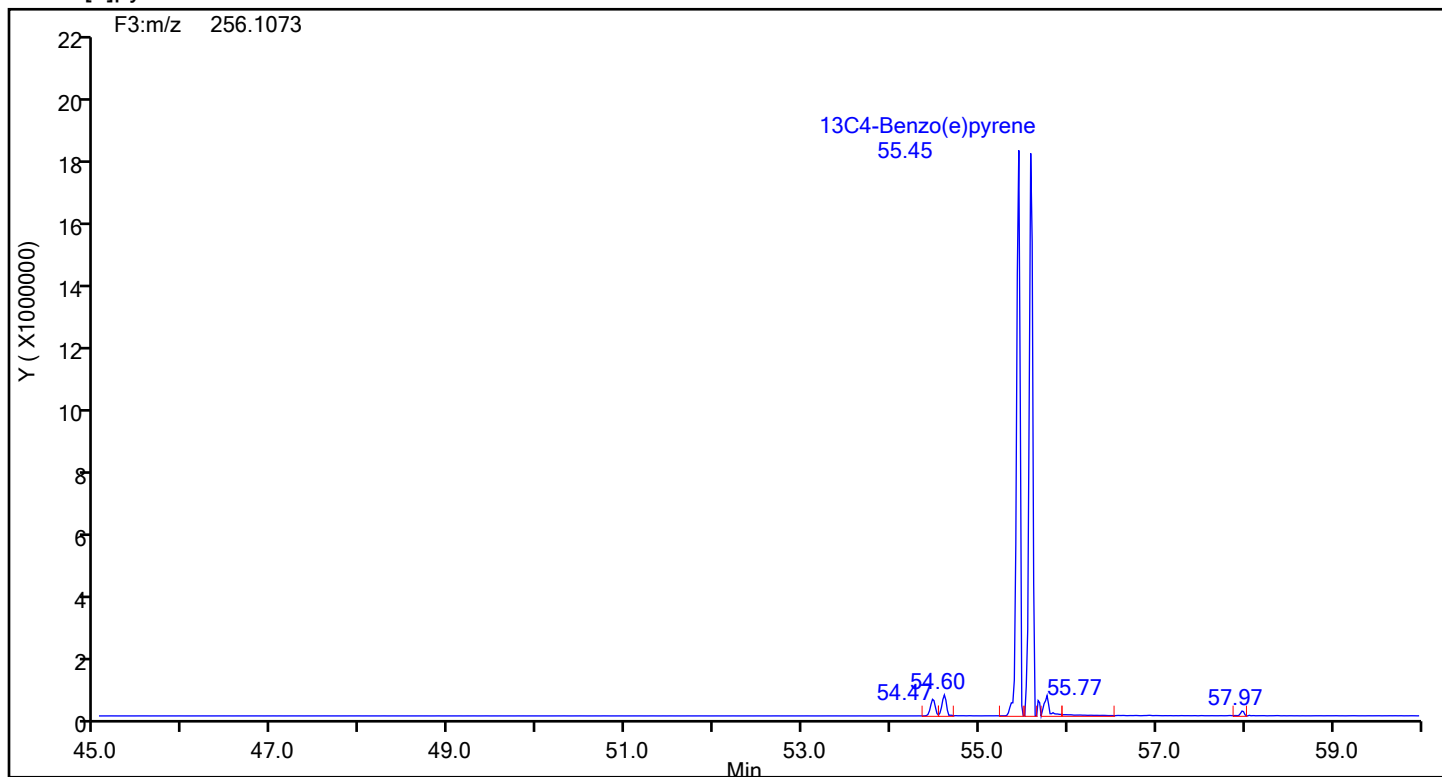
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## Benzo[e]pyrene



## Benzo[e]pyrene Standards

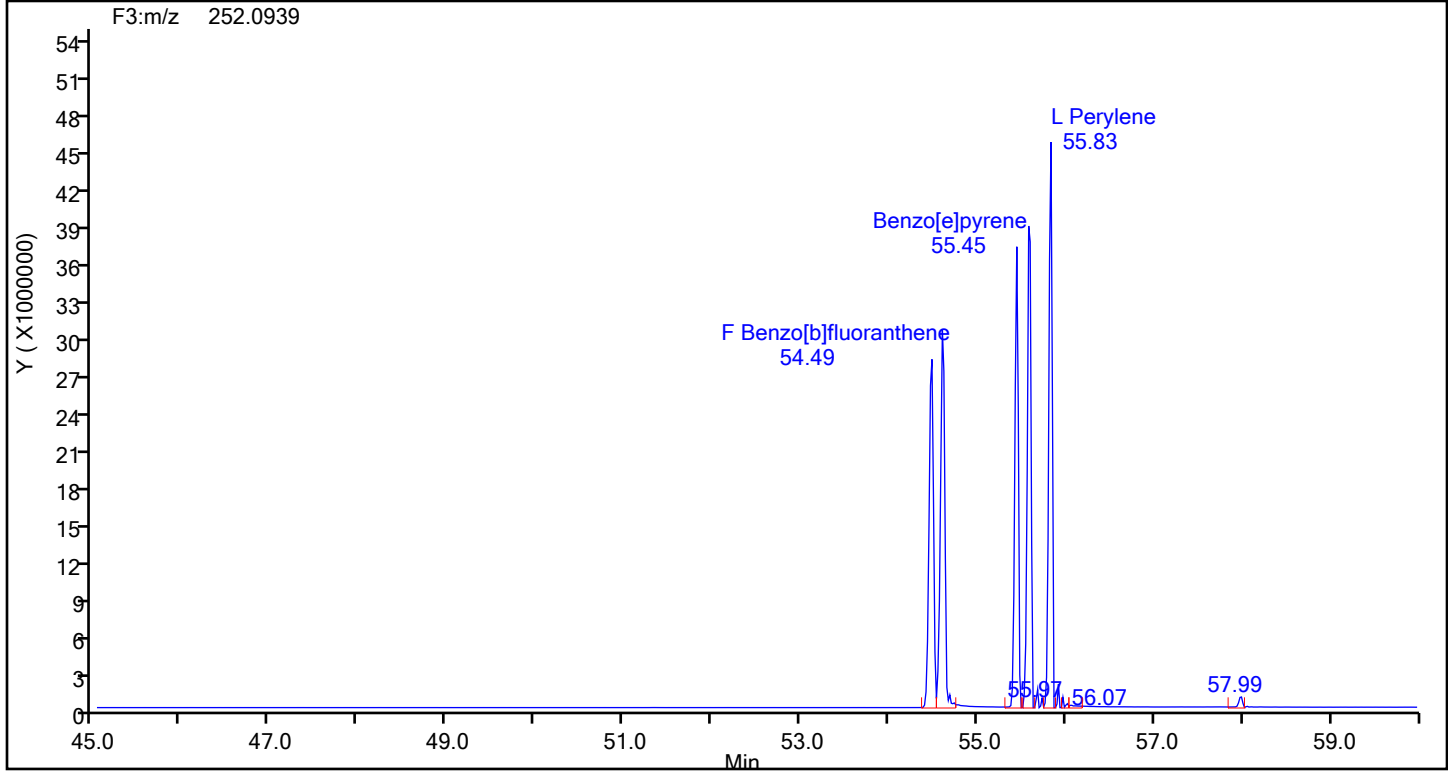




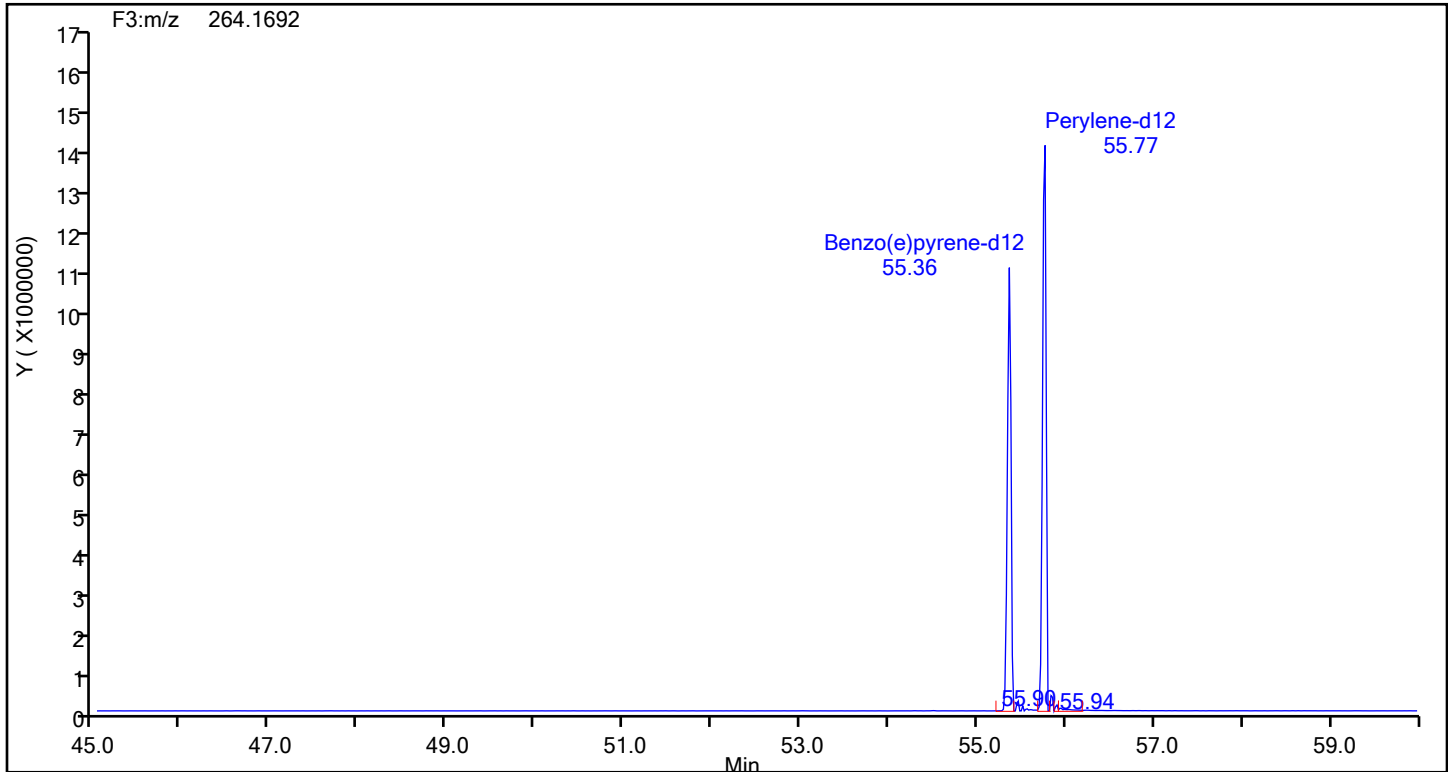
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## Perylene



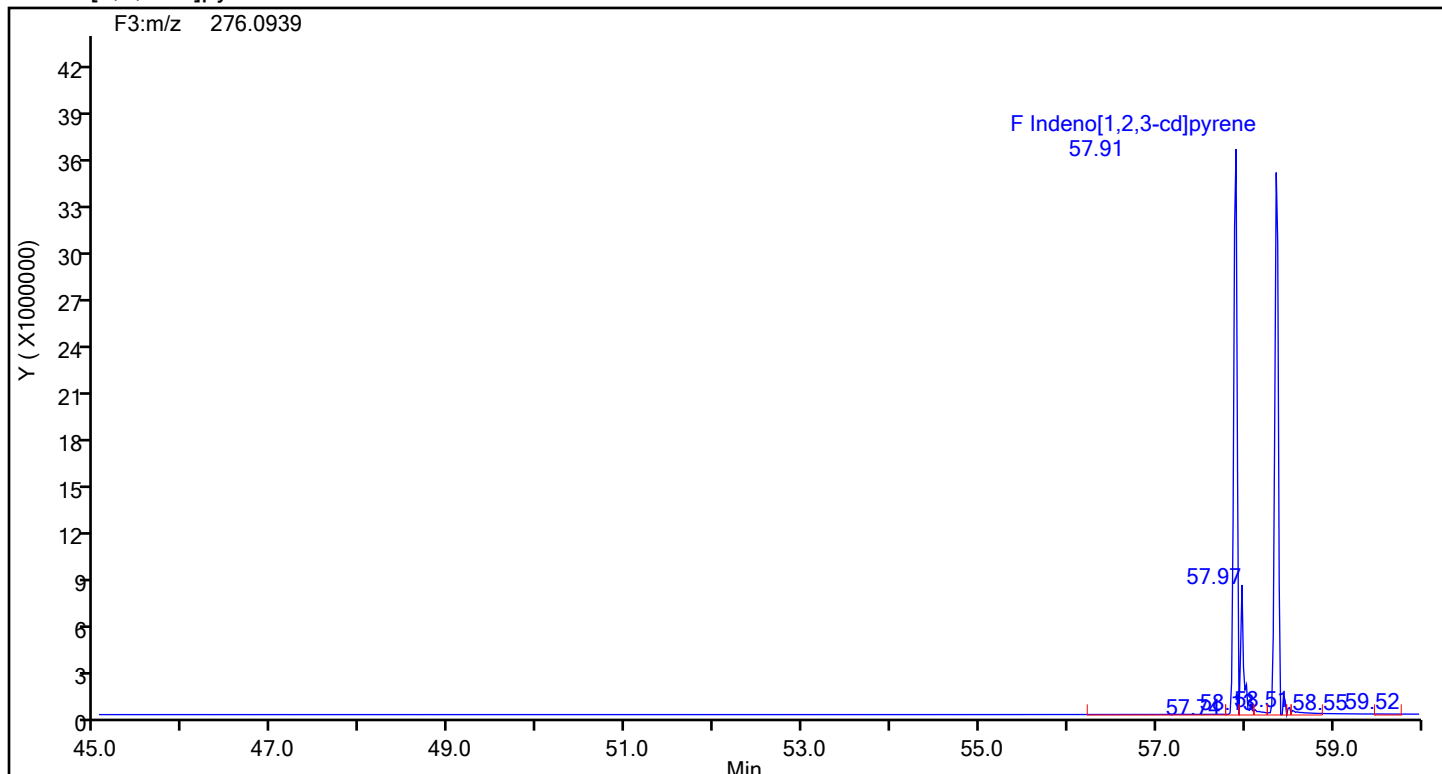
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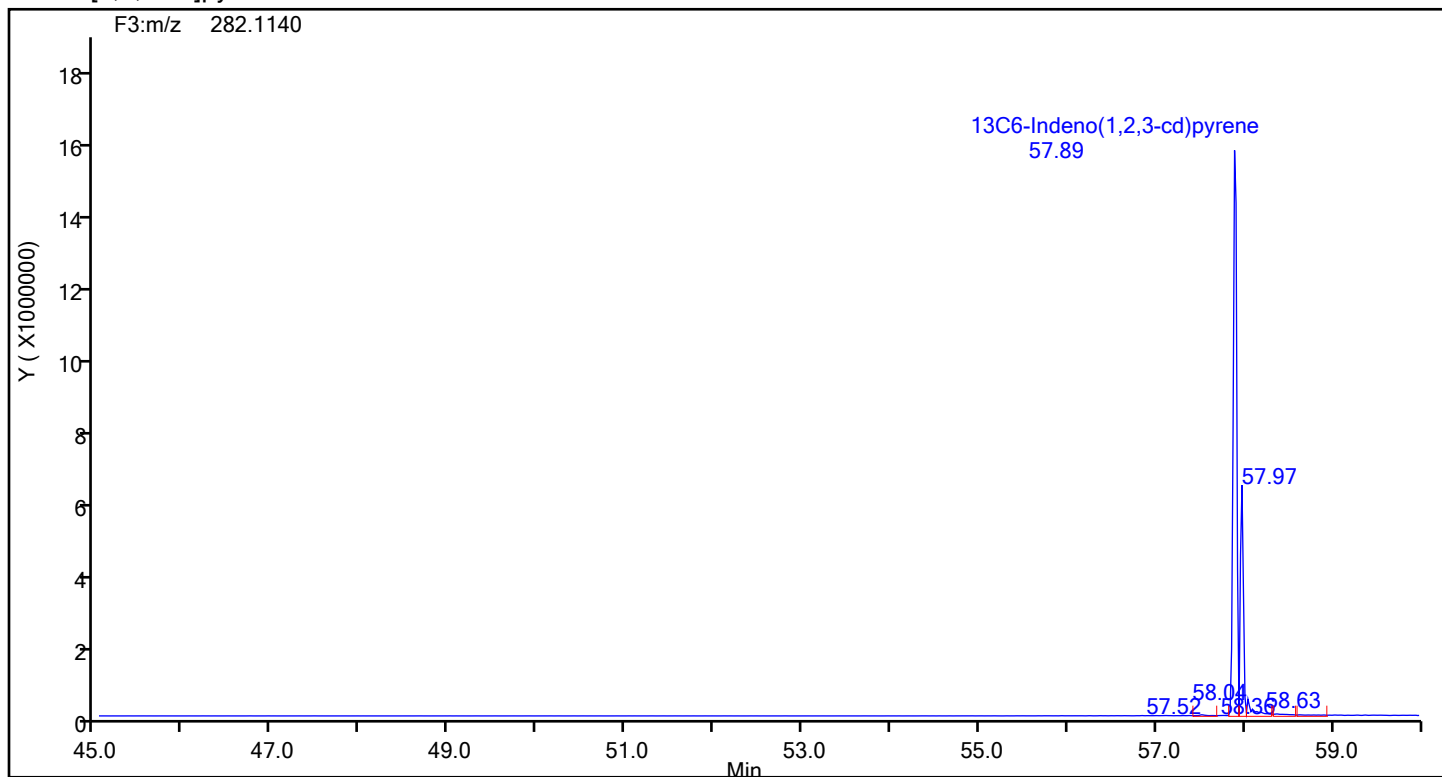
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



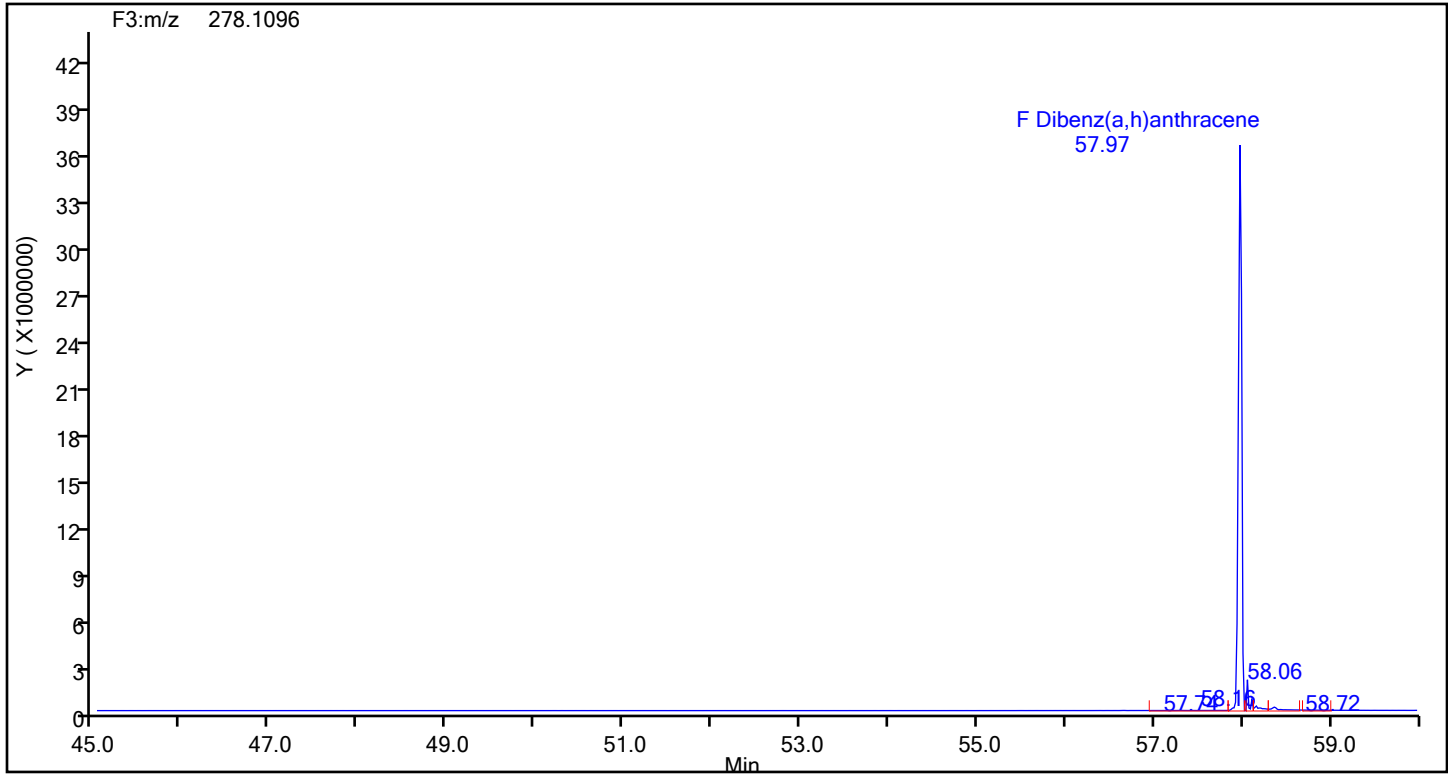
## Indeno[1,2,3-cd]pyrene Standards



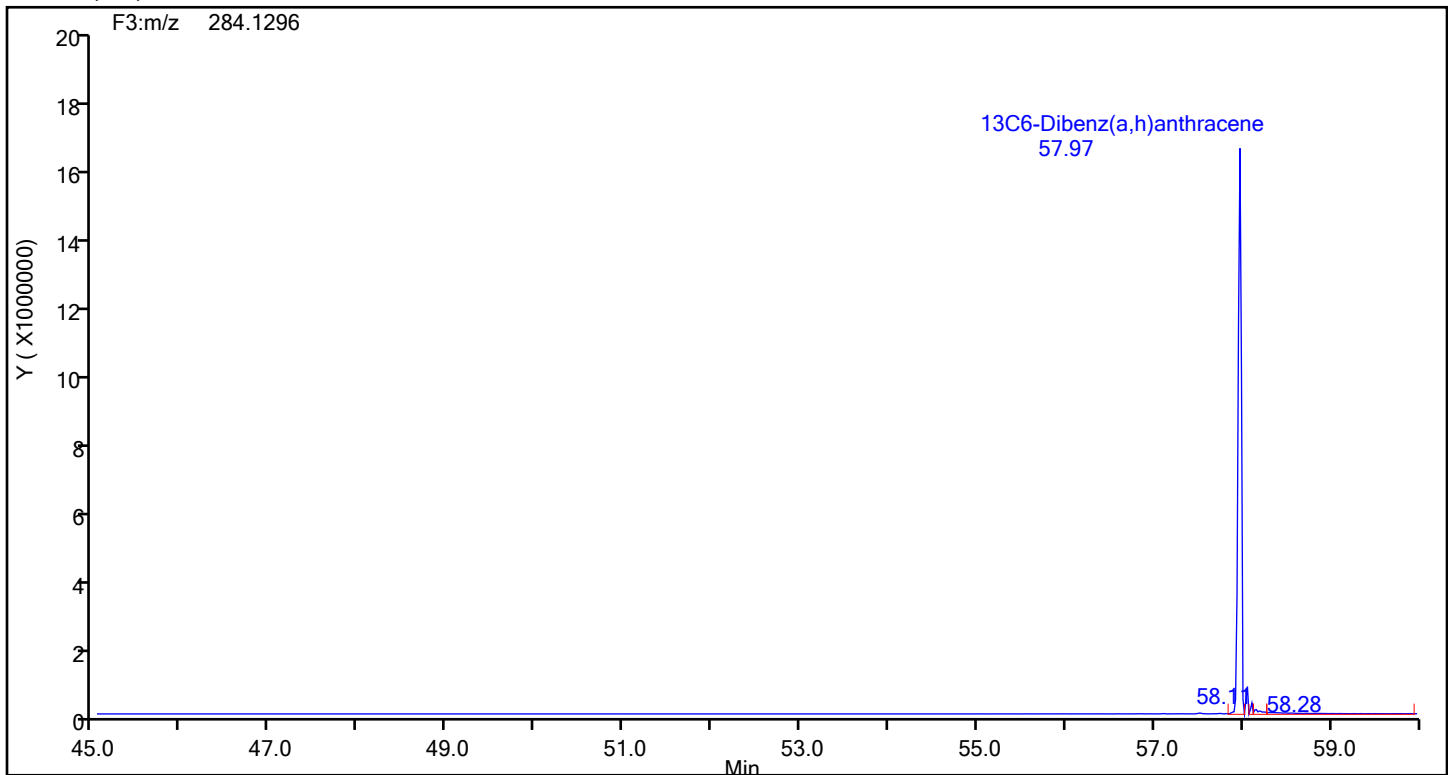
## Eurofins Knoxville

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Injection Date: 16-Jul-2024 11:30:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88812 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



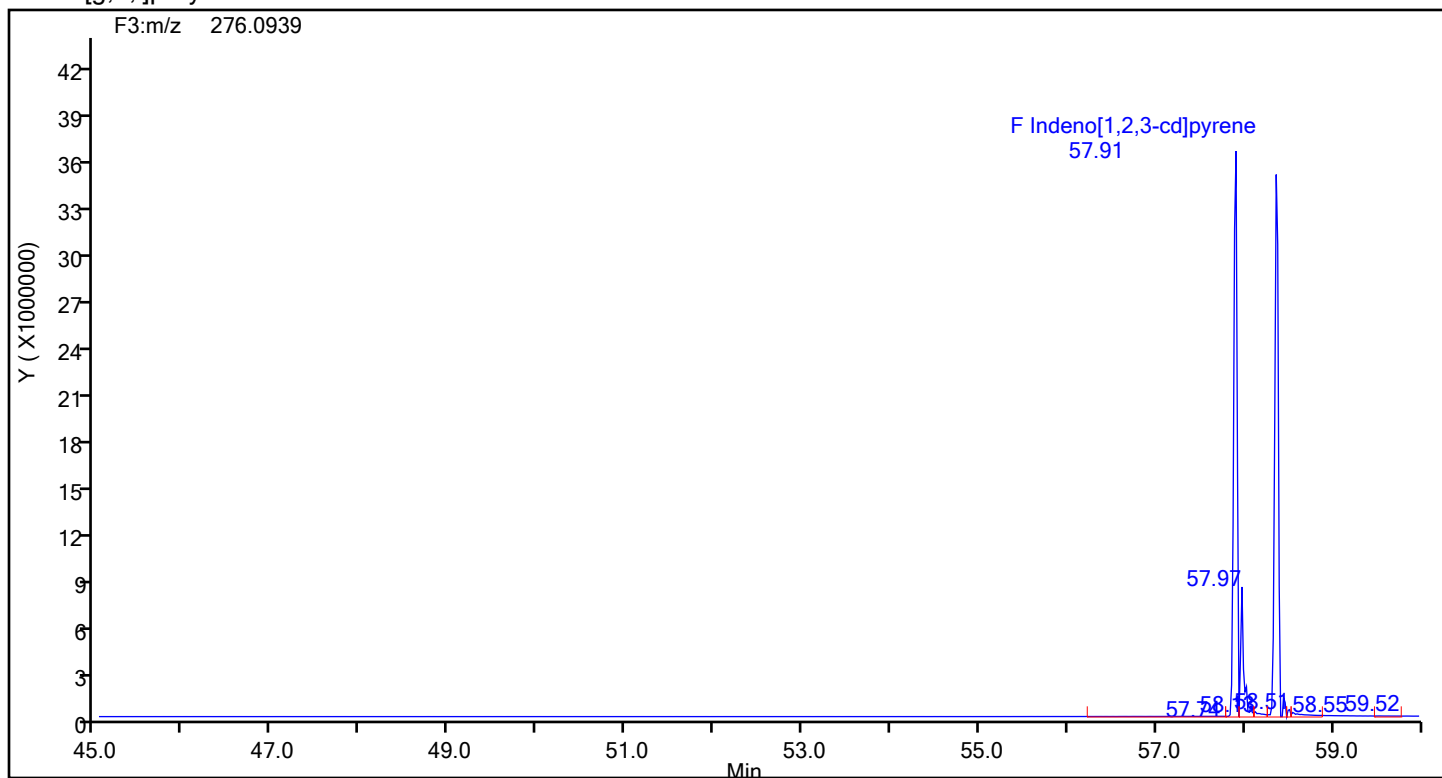
## Dibenz(a,h)anthracene Standards



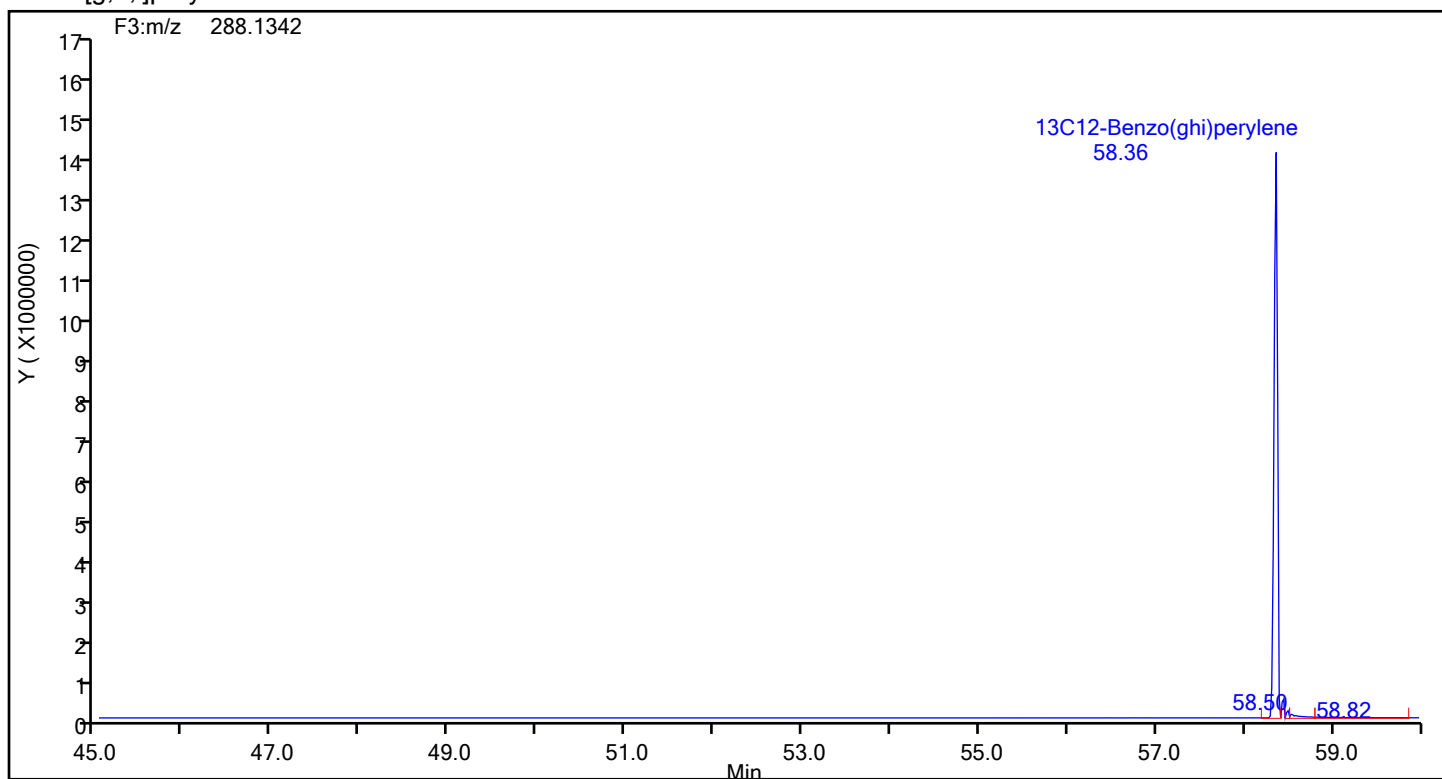
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33522.b\d3240716c2a.d  
Injection Date: 16-Jul-2024 11:30:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88812 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



FORM VII  
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCV 140-88831/1 Calibration Date: 07/16/2024 23:22

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240716c4a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.213		188	200	-5.9	25.0
2-Methylnaphthalene	AveID	1.279	1.225		192	200	-4.2	25.0
Acenaphthylene	AveID	2.366	2.251		190	200	-4.9	25.0
Acenaphthene	AveID	1.270	1.169		184	200	-7.9	25.0
Fluorene	AveID	1.253	1.213		194	200	-3.2	25.0
Phenanthrene	AveID	1.104	1.120		203	200	1.4	25.0
Anthracene	AveID	1.359	1.381		203	200	1.7	25.0
Fluoranthene	AveID	1.151	1.142		198	200	-0.8	25.0
Pyrene	AveID	1.065	1.026		193	200	-3.7	25.0
Benzo[a]anthracene	AveID	0.9739	1.046		215	200	7.4	25.0
Chrysene	AveID	0.9815	1.039		212	200	5.9	25.0
Benzo[b]fluoranthene	AveID	1.125	1.118		199	200	-0.6	25.0
Benzo[k]fluoranthene	AveID	1.127	1.051		187	200	-6.8	25.0
Benzo[e]pyrene	AveID	1.001	0.9692		194	200	-3.2	25.0
Benzo[a]pyrene	AveID	1.113	1.072		193	200	-3.7	25.0
Perylene	AveID	1.431	1.575		220	200	10.1	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.124		200	200	-0.0	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.153		204	200	1.9	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.295		202	200	0.8	25.0
13C6-Naphthalene	Ave	3.375	2.851		84.5	100	-15.5	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.425		88.9	100	-11.1	30.0
13C6-Acenaphthylene	Ave	1.652	1.539		93.1	100	-6.9	30.0
13C6-Acenaphthene	Ave	0.9792	0.9280		94.8	100	-5.2	30.0
13C6-Fluorene	Ave	0.8898	0.8851		99.5	100	-0.5	30.0
13C6-Phenanthrene	Ave	0.5724	0.4736		82.7	100	-17.3	30.0
13C6-Anthracene	Ave	0.4523	0.3719		82.2	100	-17.8	30.0
13C6-Fluoranthrene	Ave	1.199	1.208		101	100	0.8	30.0
13C3-Pyrene	Ave	1.351	1.311		97.0	100	-3.0	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.327		87.4	100	-12.6	30.0
13C6-Chrysene	Ave	1.629	1.242		76.2	100	-23.8	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.453		99.4	100	-0.6	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.545		88.2	100	-11.8	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.610		98.3	100	-1.7	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.743		112	100	12.4	30.0
Perylene-d12	Ave	1.192	1.301		109	100	9.2	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.377		135	100	34.8*	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.430		136	100	35.5*	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.312		103	100	2.9	30.0
Anthracene-d10	Ave	0.4257	0.3360		78.9	100	-21.1	25.0
13C6-Benzo(c)fluorene	Ave	0.5136	0.6004		117	100	16.9	25.0
13C12-Benzo(j)fluoranthene	Ave	1.356	1.253		92.4	100	-7.6	25.0

# Resolution Check Report ( DFS SN: 3439 )

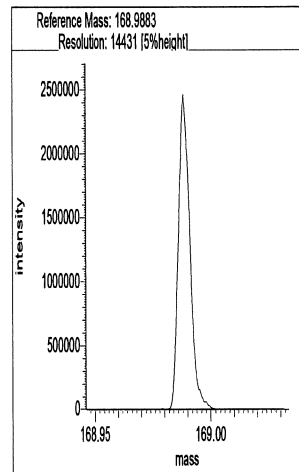
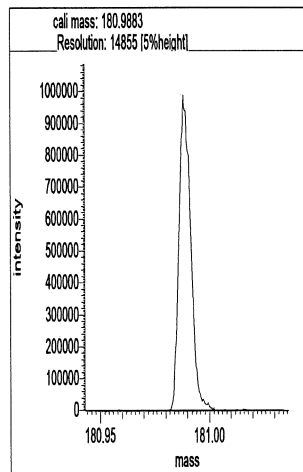
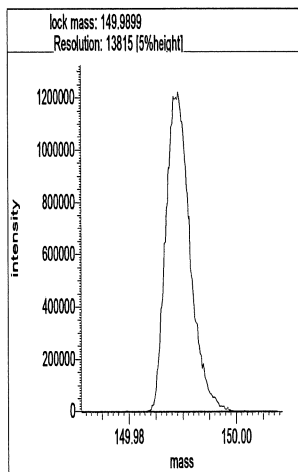
Date: 16 Jul 2024 23:12  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

## Segment 1

Lock mass 149.9899 [m/z] Resolution: 13815 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 14855 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 14431 [5%height]



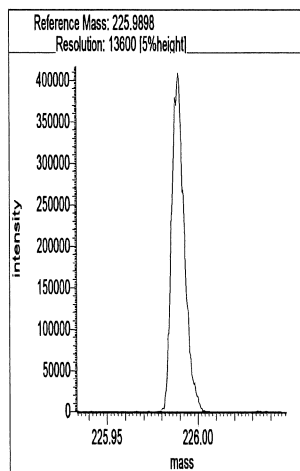
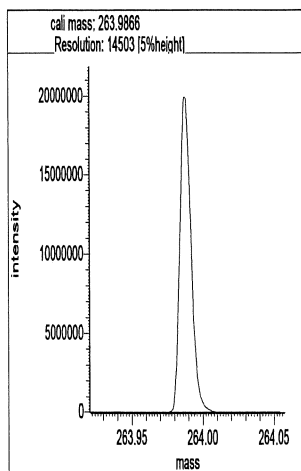
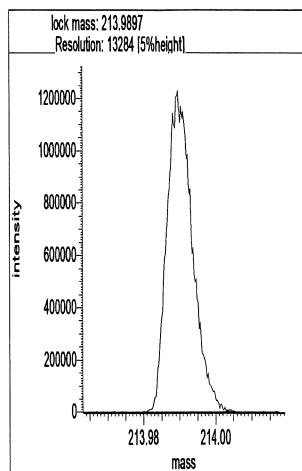
## Segment 2

Lock mass 213.9897 [m/z] Resolution: 13284 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 14503 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 13600 [5%height]

03240716r6

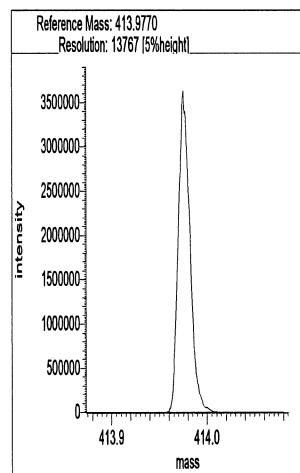
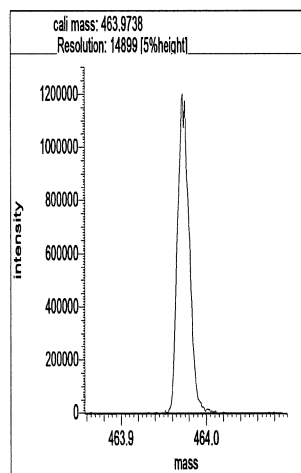
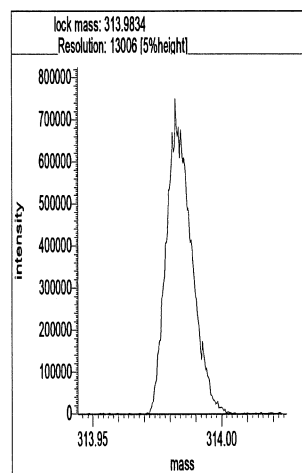


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 13006 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 14899 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 13767 [5%height]



## Reports

23:19:06: Peak matching procedure started  
23:19:07:  
23:19:07: Reference mass: 263.98656  
23:19:07: Sample mass: 414.0  
23:19:08:  
23:19:09: Finding reference mass  
23:19:09: Finding sample mass  
23:19:10:  
23:19:16: [1] 413.9733 amu, mean: 413.9733 SD: 0.30 mmu or: 0.73 ppm  
23:19:19: [2] 413.9729 amu, mean: 413.9731 SD: 0.35 mmu or: 0.85 ppm  
23:19:22: [3] 413.9726 amu, mean: 413.9729 SD: 0.45 mmu or: 1.08 ppm  
23:19:25: [4] 413.9722 amu, mean: 413.9727 SD: 0.44 mmu or: 1.06 ppm  
23:19:28: [5] 413.9723 amu, mean: 413.9726 SD: 0.56 mmu or: 1.36 ppm  
23:19:31: [6] 413.9717 amu, mean: 413.9725 SD: 0.58 mmu or: 1.41 ppm  
23:19:35: [7] 413.9718 amu, mean: 413.9724 SD: 0.63 mmu or: 1.51 ppm  
23:19:38: [8] 413.9715 amu, mean: 413.9723 SD: 0.66 mmu or: 1.60 ppm  
23:19:41: [9] 413.9713 amu, mean: 413.9722 SD: 0.71 mmu or: 1.71 ppm  
23:19:44: [10] 413.9711 amu, mean: 413.9721 SD: 0.69 mmu or: 1.66 ppm  
23:19:47: [11] 413.9716 amu, mean: 413.9720  
23:19:48:  
23:19:48: Stop requested. Please wait for procedure to finish.  
23:19:48:  
23:19:50:  
23:19:51: Peakmatching stopped

Signature

mer 7/17/24



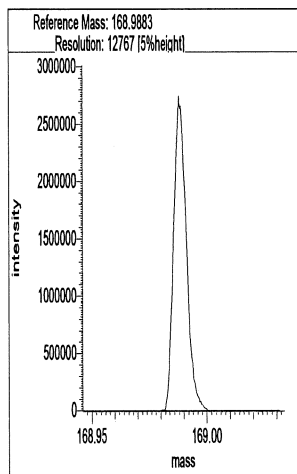
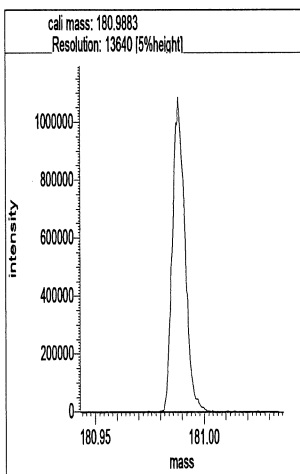
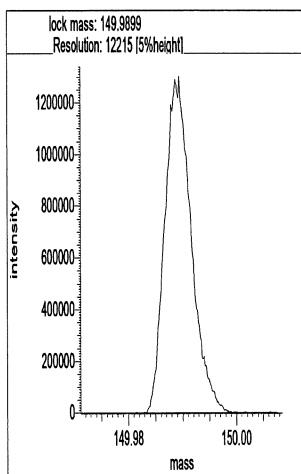
# Resolution Check Report ( DFS SN: 3439 )

Date: 17 Jul 2024 10:37  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

-d3240717r2

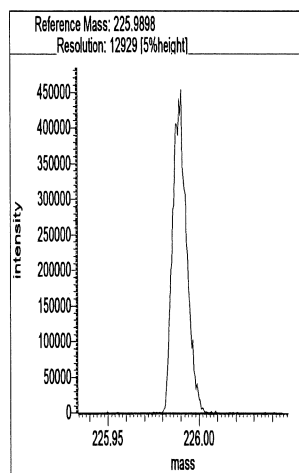
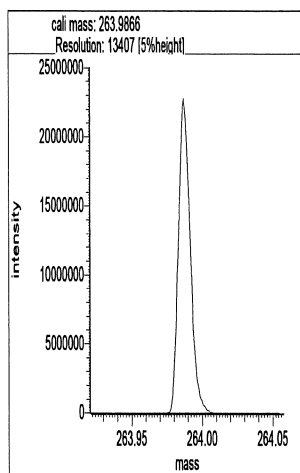
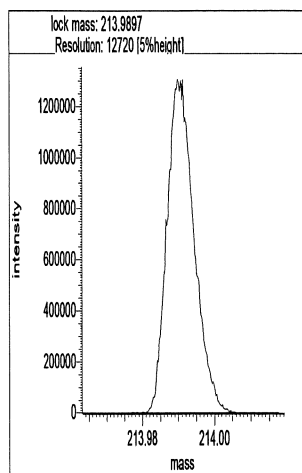
## Segment 1

Lock mass 149.9899 [m/z] Resolution: 12215 [5%height]  
Cali. mass 180.9883 [m/z] Resolution: 13640 [5%height]  
Ref. mass 168.9883 [m/z] Resolution: 12767 [5%height]



## Segment 2

Lock mass 213.9897 [m/z] Resolution: 12720 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 13407 [5%height]  
Ref. mass 225.9898 [m/z] Resolution: 12929 [5%height]

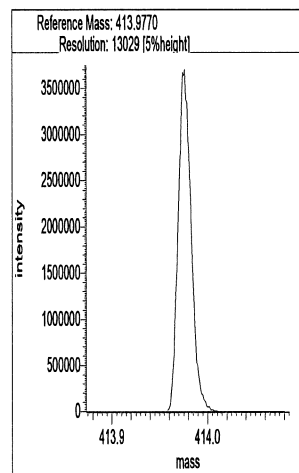
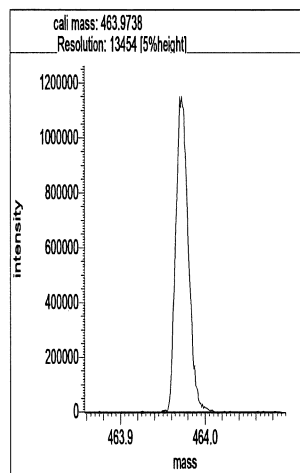
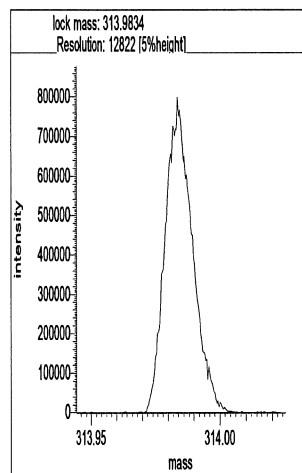


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 12822 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 13454 [5%height]

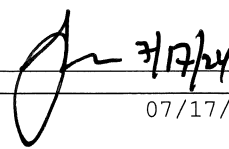
Ref. mass 413.9770 [m/z] Resolution: 13029 [5%height]



## Reports

10:44:29: Peak matching procedure started  
10:44:29:  
10:44:30: Reference mass: 263.98656  
10:44:30: Sample mass: 414.0  
10:44:31:  
10:44:31: Finding reference mass  
10:44:32: Finding sample mass  
10:44:33:  
10:44:39: [1] 413.9707 amu, mean: 413.9707  
10:44:42: [2] 413.9708 amu, mean: 413.9707 SD: 0.10 mmu or: 0.24 ppm  
10:44:45: [3] 413.9701 amu, mean: 413.9705 SD: 0.37 mmu or: 0.90 ppm  
10:44:48: [4] 413.9705 amu, mean: 413.9705 SD: 0.31 mmu or: 0.74 ppm  
10:44:51: [5] 413.9696 amu, mean: 413.9703 SD: 0.50 mmu or: 1.22 ppm  
10:44:54: [6] 413.9697 amu, mean: 413.9702 SD: 0.51 mmu or: 1.24 ppm  
10:44:58: [7] 413.9696 amu, mean: 413.9701 SD: 0.53 mmu or: 1.28 ppm  
10:45:01: [8] 413.9698 amu, mean: 413.9701 SD: 0.50 mmu or: 1.22 ppm  
10:45:04: [9] 413.9700 amu, mean: 413.9701 SD: 0.47 mmu or: 1.14 ppm  
10:45:07: [10] 413.9703 amu, mean: 413.9701 SD: 0.45 mmu or: 1.09 ppm  
10:45:10: [11] 413.9707 amu, mean: 413.9702 SD: 0.46 mmu or: 1.11 ppm  
10:45:11:  
10:45:11: Stop requested. Please wait for procedure to finish.  
10:45:11:  
10:45:13:  
10:45:14: Peakmatching stopped

Signature



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\d3240716c4a.d  
Lims ID: CCV  
Client ID:  
Sample Type: CCV  
Inject. Date: 16-Jul-2024 23:22:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033530-001  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 17-Jul-2024 01:15:08 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1628

First Level Reviewer: Q9DB

Date: 17-Jul-2024 01:15:08

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:24	33331216		3.3746	84.5	84.5	0.0265	0.0265	84.49	
Naphthalene	11:24	80889732		1.2893	188.2	188.2	0.0536	0.0536	94.12	
D 13C6-2-Methylnaphthalene	13:46	16654404		1.6031	88.9	88.9	0.0187	0.0187	88.87	
2-Methylnaphthalene	13:46	40816720		1.2786	191.7	191.7	0.0197	0.0197	95.84	
D 13C6-Acenaphthylene	16:37	17987242		1.6520	93.1	93.1	0.0215	0.0215	93.14	
Acenaphthylene	16:37	48831505		2.3661	190.2	190.2	0.0308	0.0308	95.12	
* Acenaphthene-d10	17:11	11689814		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:18	10847722		0.9792	94.8	94.8	0.0332	0.0332	94.77	
Acenaphthene	17:19	25357181		1.2697	184.1	184.1	0.0339	0.0339	92.05	
D 13C6-Fluorene	19:35	10346681		0.8898	99.5	99.5	0.0286	0.0286	99.47	
Fluorene	19:35	25092104		1.2532	193.5	193.5	0.0337	0.0337	96.76	
D 13C6-Phenanthrene	24:56	15616410		0.5724	82.7	82.7	0.0228	0.0228	82.73	
Phenanthrene	24:56	34979053		1.1044	202.8	202.8	0.0393	0.0393	101	
\$ Anthracin-d10	25:09	11080704		0.4257	78.9	78.9	0.0111	0.0111	78.93	
D 13C6-Anthracene	25:16	12264127		0.4523	82.2	82.2	0.0289	0.0289	82.22	
Anthracene	25:16	33875222		1.3586	203.3	203.3	0.0406	0.0406	102	
D 13C6-Fluoranthrene	33:38	39849792		1.1994	100.8	100.8	0.0180	0.0180	101	
Fluoranthrene	33:39	90993321		1.1513	198.3	198.3	0.0184	0.0184	99.16	
* Pyrene-d10	35:11	32975823		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:20	43226285		1.3512	97.0	97.0	0.0189	0.0189	97.01	
Pyrene	35:20	88704173		1.0652	192.6	192.6	0.0190	0.0190	96.32	
\$ 13C6-Benzo(c)fluorene	39:01	19799315		0.5136	116.9	116.9	0.0232	0.0232	117	
D 13C6-Benzo(a)anthracene	45:50	44589858		1.5189	87.4	87.4	0.0156	0.0156	87.36	
Benzo[a]anthracene	45:50	93287967		0.9739	214.8	214.8	0.0910	0.0910	107	
D 13C6-Chrysene	46:06	41728106		1.6287	76.2	76.2	0.0145	0.0145	76.24	
Chrysene	46:06	86726739		0.9815	211.8	211.8	0.0998	0.0998	106	
D 13C6-Benzo(b)fluoranthene	54:29	48839002		1.4621	99.4	99.4	0.007381	0.007381	99.41	
Benzo[b]fluoranthene	54:29	109188011		1.1249	198.7	198.7	0.006264	0.006264	99.37	
\$ 13C12-Benzo(j)fluoranthene	54:31	42103155		1.3558	92.4	92.4	0.009151	0.009151	92.41	
D 13C6-Benzo(k)fluoranthene	54:36	51911924		1.7507	88.2	88.2	0.006164	0.006164	88.24	
Benzo[k]fluoranthene	54:37	109105078		1.1271	186.5	186.5	0.005841	0.005841	93.24	
* Benzo(e)pyrene-d12	55:22	33603674		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:26	54092338		1.6368	98.3	98.3	0.008567	0.008567	98.34	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
Benzo[e]pyrene	55:27	104857427		1.0013	193.6	193.6	0.005427	0.005427	96.80	
D 13C4-Benzo(a)pyrene	55:35	58575170		1.5508	112.4	112.4	0.009043	0.009043	112	
Benzo[a]pyrene	55:35	125598707		1.1130	192.6	192.6	0.004132	0.004132	96.32	
D Perylene-d12	55:45	43715991		1.1917	109.2	109.2	0.0103	0.0103	109	
Perylene	55:50	137733024		1.4307	220.2	220.2	0.004218	0.004218	110	
D 13C6-Indeno(1,2,3-cd)pyrene	57:54	46283102		1.0218	134.8	134.8	0.0159	0.0159	135	
Indeno[1,2,3-cd]pyrene	57:54	104066350		1.1249	199.9	199.9	0.005971	0.005971	99.94	
D 13C6-Dibenz(a,h)anthracene	57:58	48049612		1.0553	135.5	135.5	0.0141	0.0141	135	
Dibenz(a,h)anthracene	57:58	110815842		1.1314	203.8	203.8	0.004925	0.004925	102	
D 13C12-Benzo(ghi)perylene	58:21	44075228		1.2749	102.9	102.9	0.004697	0.004697	103	
Benzo[g,h,i]perylene	58:21	114111089		1.2838	201.7	201.7	0.005206	0.005206	101	

## QC Flag Legend

Processing Flags

## Reagents:

61HRPAHCS5a\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\d3240716c4a.d  
Lims ID: CCV  
Client ID:  
Sample Type: CCV  
Inject. Date: 16-Jul-2024 23:22:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033530-001  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 01:15:08 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1628

First Level Reviewer: Q9DB

Date: 17-Jul-2024 01:15:08

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:24	11:24	0	0.663	33331216	11515585	1516	3790	7596		
Naphthalene											
128.0626	11:24	11:24	0	1.001	80889732	28226065	3185	7962	8862		
13C6-2-Methylnaphthalene											
148.0984	13:46	13:46	0	0.801	16654404	7930401	509	1272	15580		
2-Methylnaphthalene											
142.0783	13:46	13:46	0	1.001	40816720	20058891	799	1997	25105		
13C6-Acenaphthylene											
158.0828	16:37	16:37	0	0.967	17987242	6548982	602	1505	10879		
Acenaphthylene											
152.0626	16:37	16:37	0	1.000	48831505	17568357	1150	2875	15277		
Acenaphthene-d10											
164.1404	17:11	17:11	0		11689814	4234375	281	702	15069		
13C6-Acenaphthene											
160.0984	17:18	17:18	0	1.007	10847722	3939279	550	1375	7162		
Acenaphthene											
154.0783	17:19	17:19	0	1.001	25357181	9566142	678	1695	14109		
13C6-Fluorene											
172.0984	19:35	19:35	0	1.139	10346681	3180136	431	1077	7379		
Fluorene											
166.0783	19:35	19:35	0	1.001	25092104	7562408	538	1345	14057		
13C6-Phenanthrene											
184.0984	24:56	24:56	0	0.709	15616410	3712416	353	882	10517		
Phenanthrene											
178.0783	24:56	24:56	0	1.000	34979053	8711470	645	1612	13506		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:09	25:09	0	0.715	11080704	2453328	128	320	19167		
13C6-Anthracene											
184.0984	25:16	25:16	0	0.718	12264127	2921625	353	882	8277		
Anthracene											
178.0783	25:16	25:16	0	1.000	33875222	8386937	645	1612	13003		
13C6-Fluoranthrene											
208.0984	33:38	33:38	0	0.956	39849792	8396023	584	1460	14377		E
Fluoranthene											
202.0783	33:39	33:39	0	1.000	90993321	19389534	711	1777	27271		
Pyrene-d10											
212.1404	35:11	35:11	0		32975823	6748424	308	770	21910		
13C3-Pyrene											
205.0883	35:20	35:20	0	1.004	43226285	8796916	690	1725	12749		
Pyrene											
202.0783	35:20	35:20	0	1.000	88704173	17841935	711	1777	25094		
13C6-Benzo(c)fluorene											
222.1134	39:01	39:01	0	0.705	19799315	3953706	322	805	12279		
13C6-Benzo(a)anthracene											
234.1140	45:50	45:50	0	1.303	44589858	8867811	1053	2632	8421		
Benzo[a]anthracene											
228.0939	45:50	45:50	0	1.000	93287967	18965794	3143	7857	6034		
13C6-Chrysene											
234.1140	46:06	46:06	0	1.310	41728106	8020479	1053	2632	7617		
Chrysene											
228.0939	46:06	46:06	0	1.000	86726739	16736950	3143	7857	5325		
13C6-Benzo(b)fluoranthene											
258.1140	54:29	54:29	0	0.984	48839002	13835838	481	1202	28765		
Benzo[b]fluoranthene											
252.0939	54:29	54:29	0	1.000	109188011	31854939	390	975	81679		
13C12-Benzo(j)fluoranthene											
264.1336	54:31	54:31	0	0.984	42103155	11914819	553	1382	21546		
13C6-Benzo(k)fluoranthene											
258.1140	54:36	54:36	0	0.986	51911924	14809503	481	1202	30789		
Benzo[k]fluoranthene											
252.0939	54:37	54:37	0	1.000	109105078	32544259	390	975	83447		
Benzo(e)pyrene-d12											
264.1692	55:22	55:22	0		33603674	11138389	548	1370	20326		
13C4-Benzo(e)pyrene											
256.1073	55:26	55:26	0	1.001	54092338	17941771	625	1562	28707		
Benzo[e]pyrene											
252.0939	55:27	55:27	0	1.000	104857427	34995214	390	975	89731		
13C4-Benzo(a)pyrene											
256.1073	55:35	55:35	0	1.004	58575170	21200128	625	1562	33920		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:35	55:35	0	1.000	125598707	47121152	390	975	120824		
Perylene-d12											
264.1692	55:45	55:45	0	1.007	43715991	16155448	548	1370	29481		E
Perylene											
252.0939	55:50	55:50	0	1.001	137733024	51108363	390	975	131047		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:54	57:54	0	1.046	46283102	16524714	722	1805	22887		E
Indeno[1,2,3-cd]pyrene											
276.0939	57:54	57:54	0	1.000	104066350	40413350	444	1110	91021		
13C6-Dibenz(a,h)anthracene											
284.1296	57:58	57:58	0	1.047	48049612	18699768	663	1657	28205		E
Dibenz(a,h)anthracene											
278.1096	57:58	57:58	0	1.000	110815842	41745089	417	1042	100108		
13C12-Benzo(ghi)perylene											
288.1342	58:21	58:21	0	1.054	44075228	16609042	267	667	62206		E
Benzo[g,h,i]perylene											
276.0939	58:21	58:21	0	1.000	114111089	39269459	444	1110	88445		

### QC Flag Legend

Processing Flags

### Reagents:

61HRPAHCS5a\_00002

Amount Added: 20.00

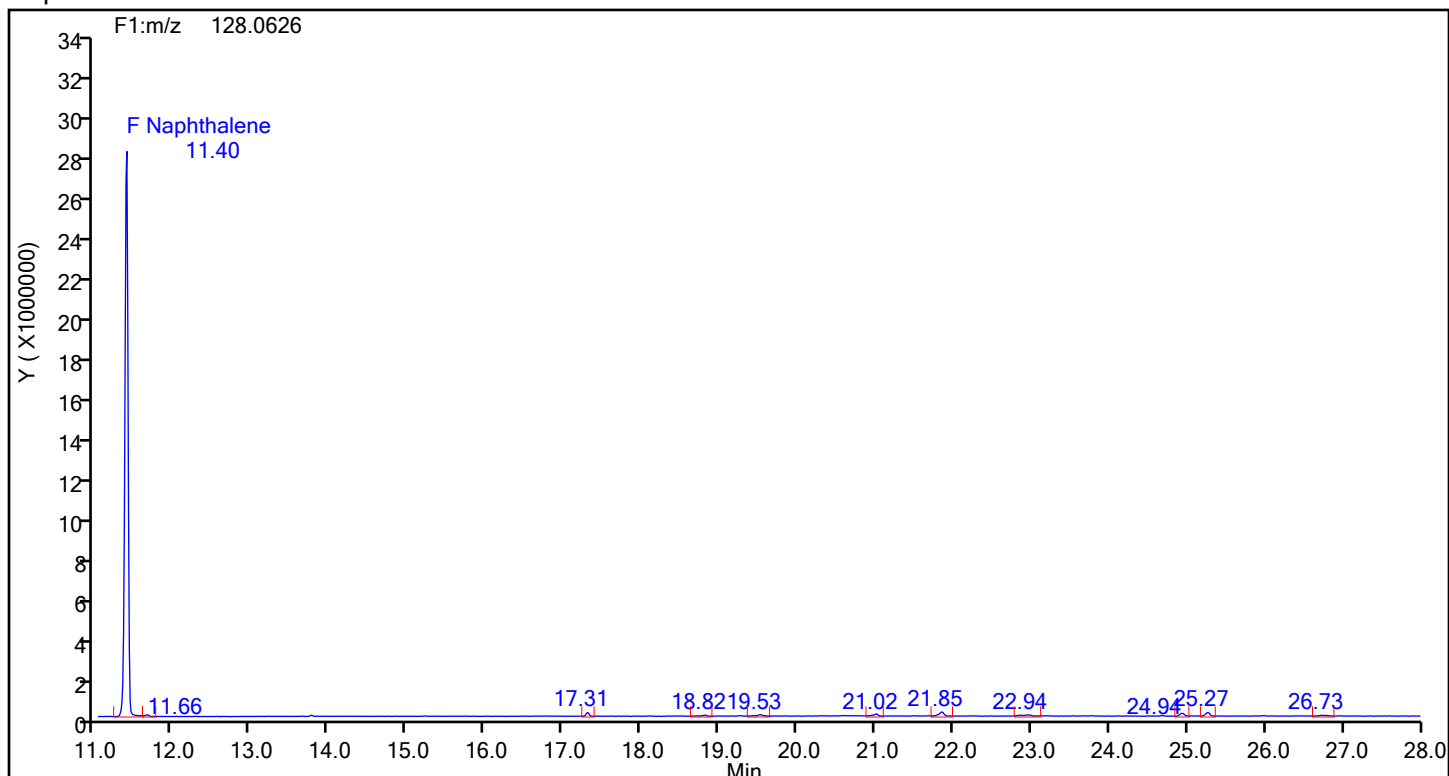
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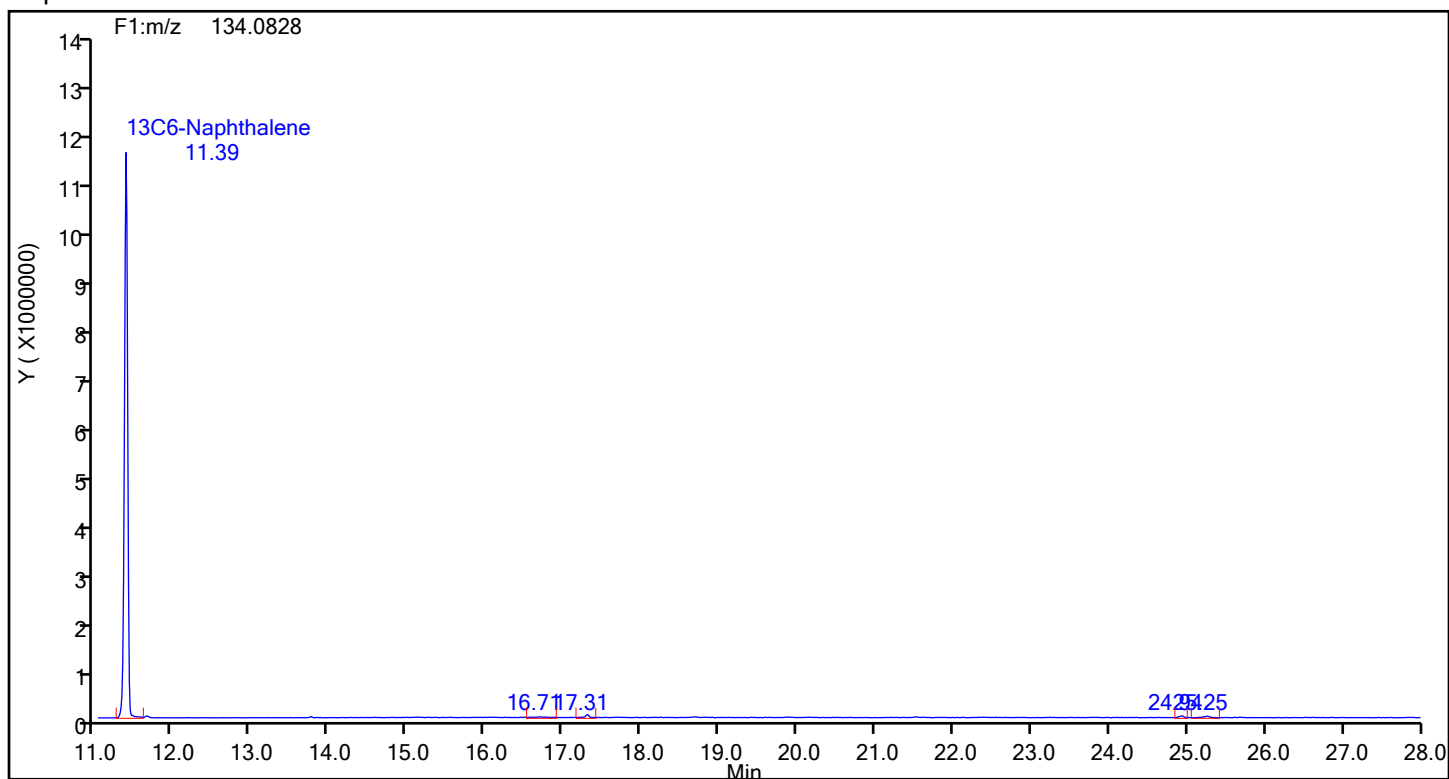
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88831 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



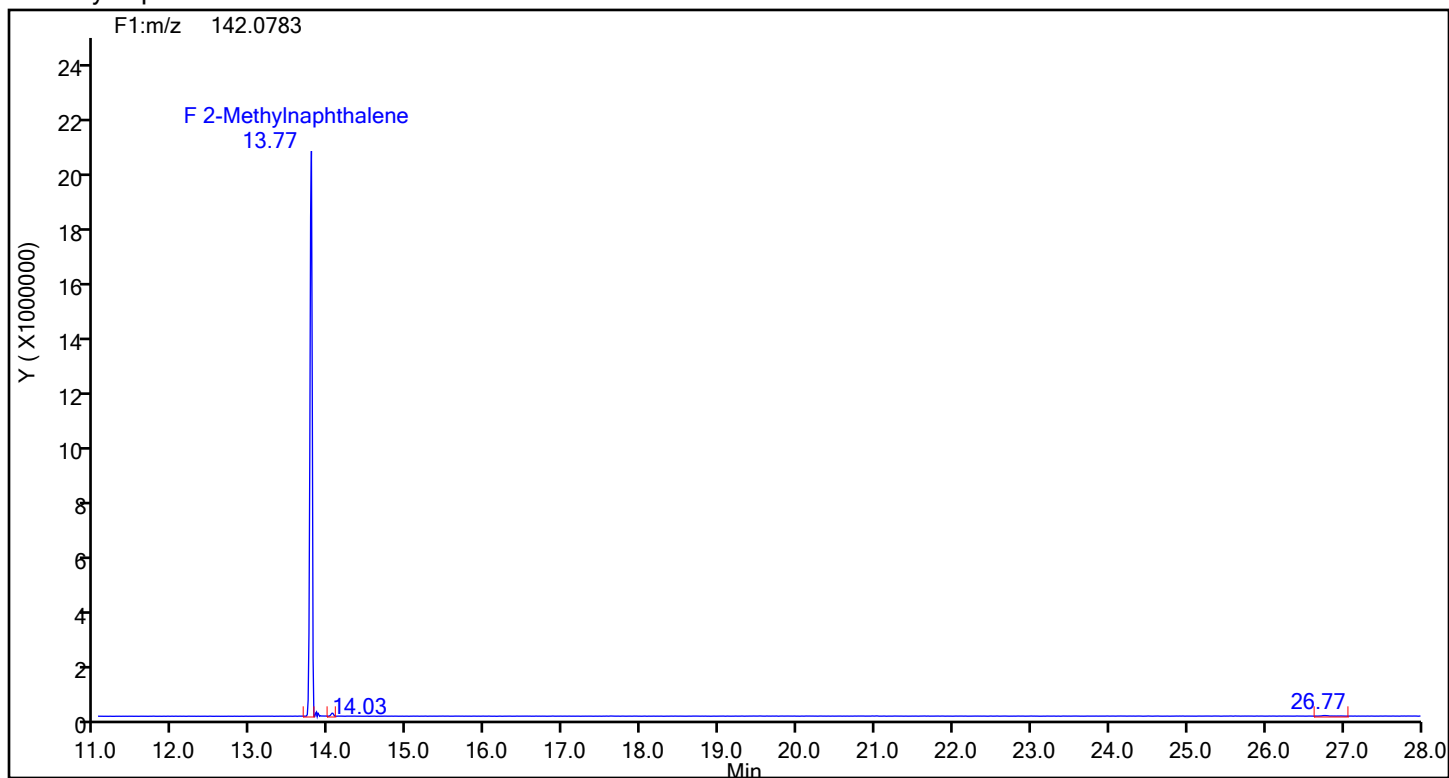
## Naphthalene Standards



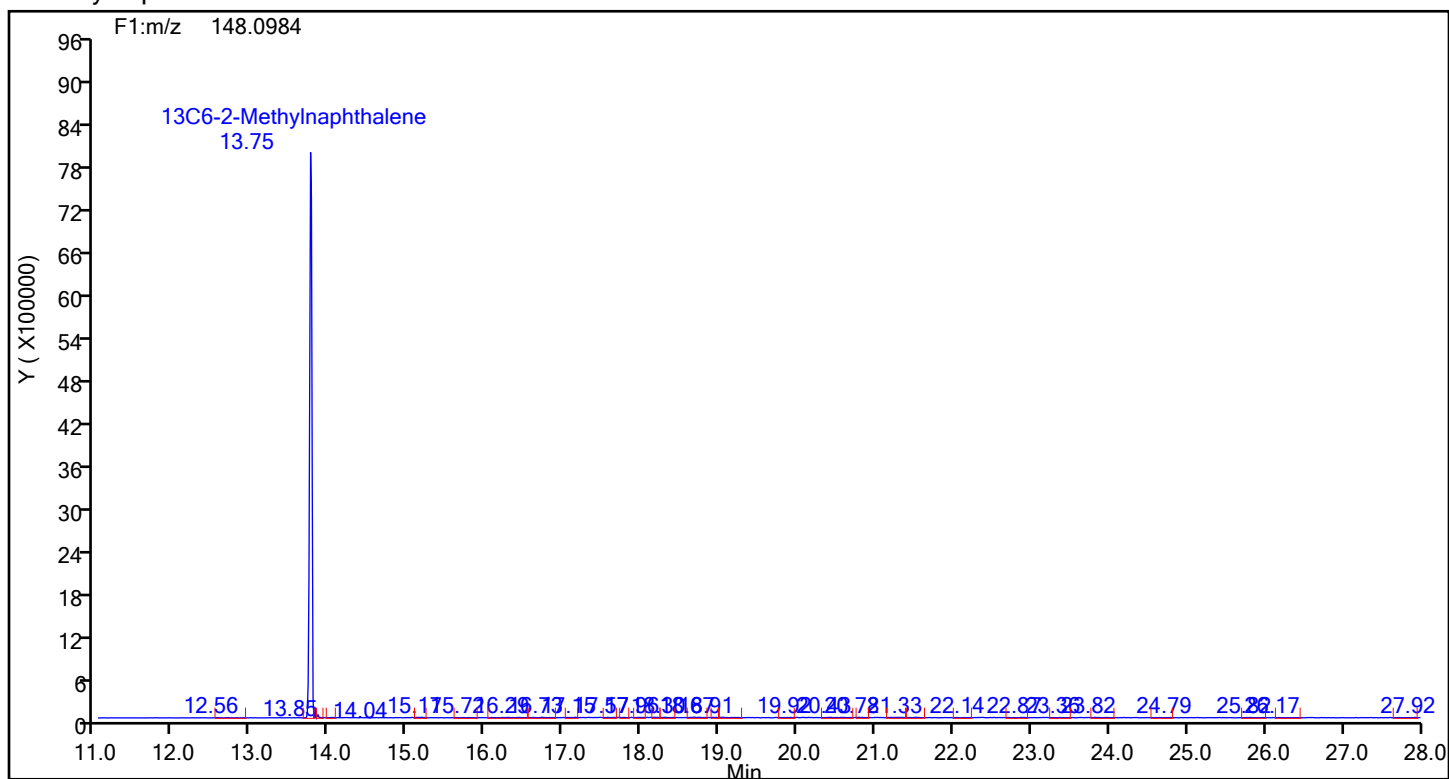
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## 2-Methylnaphthalene



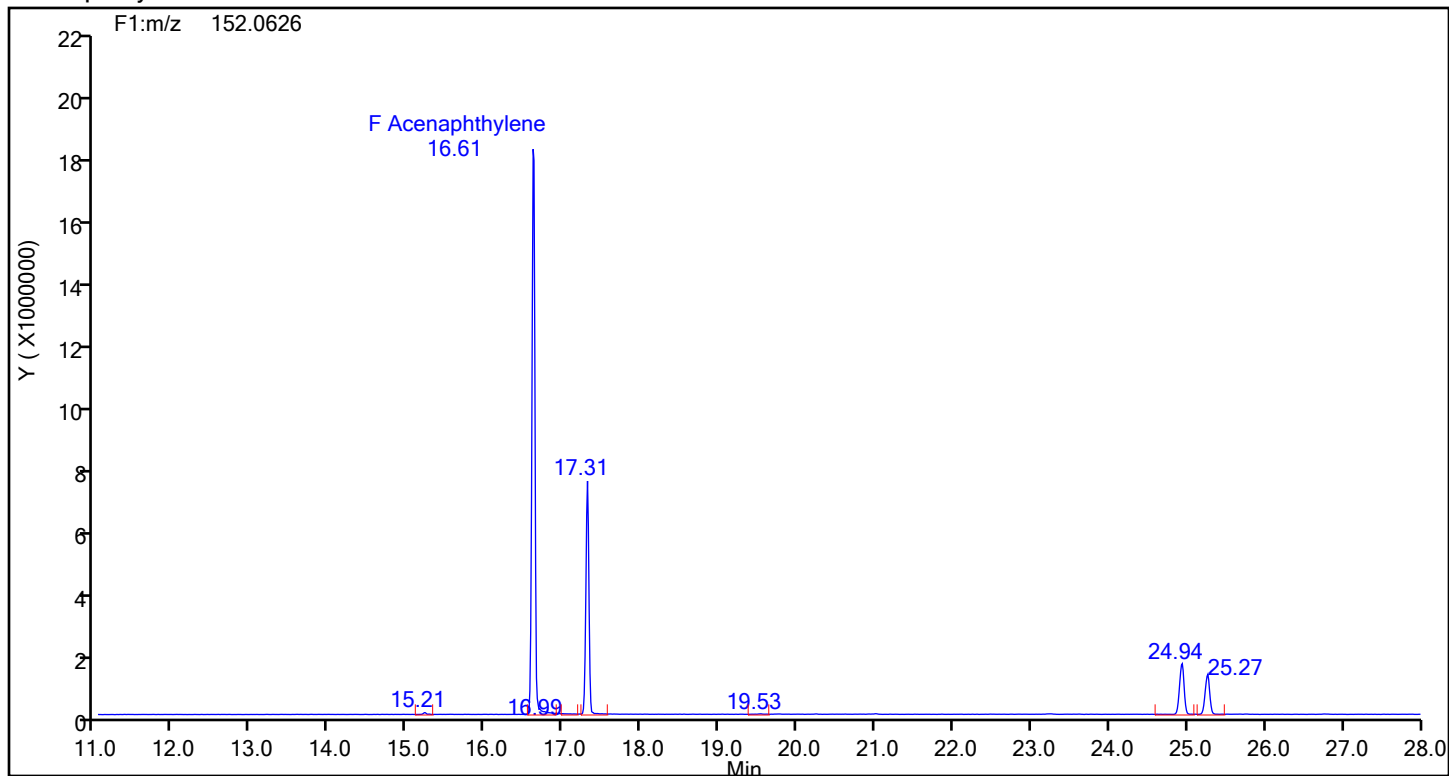
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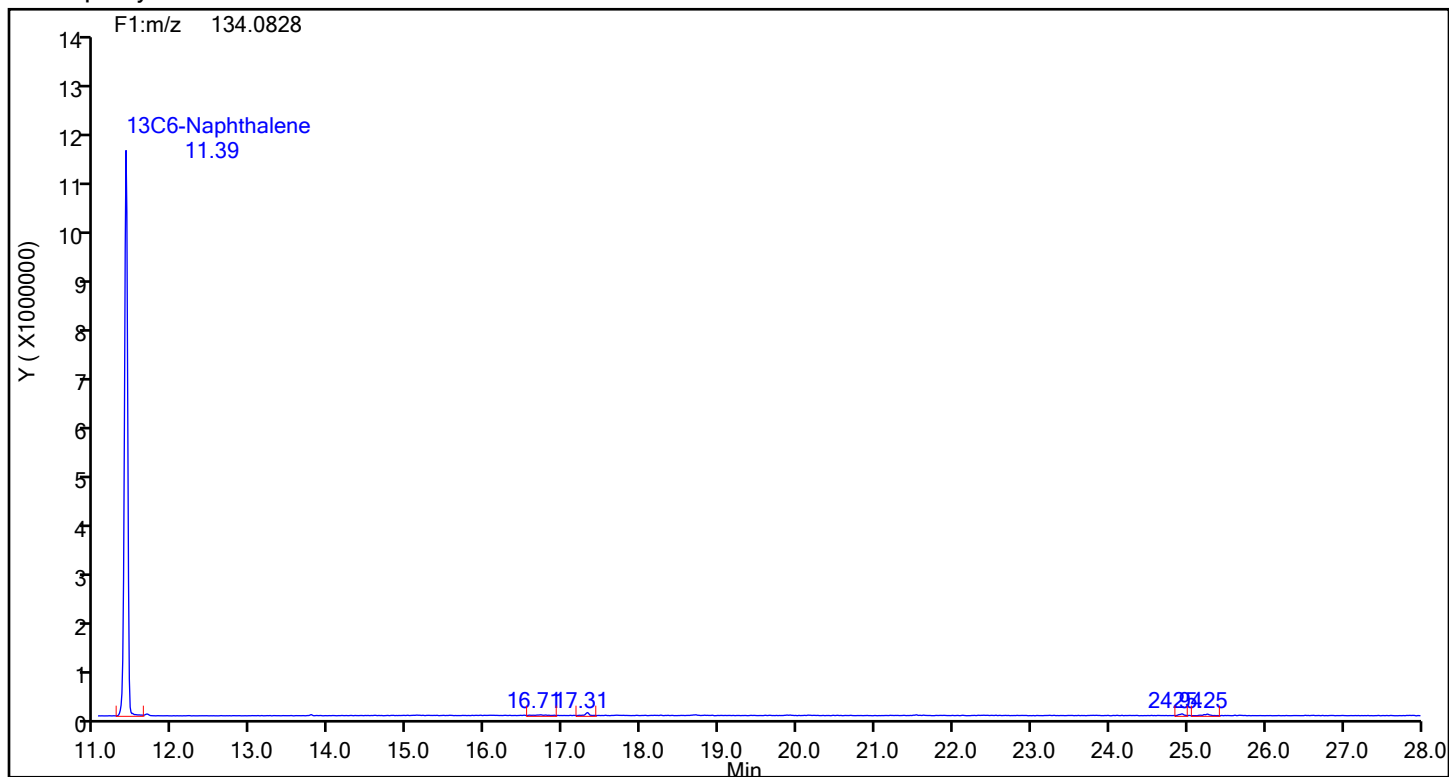
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## Acenaphthylene

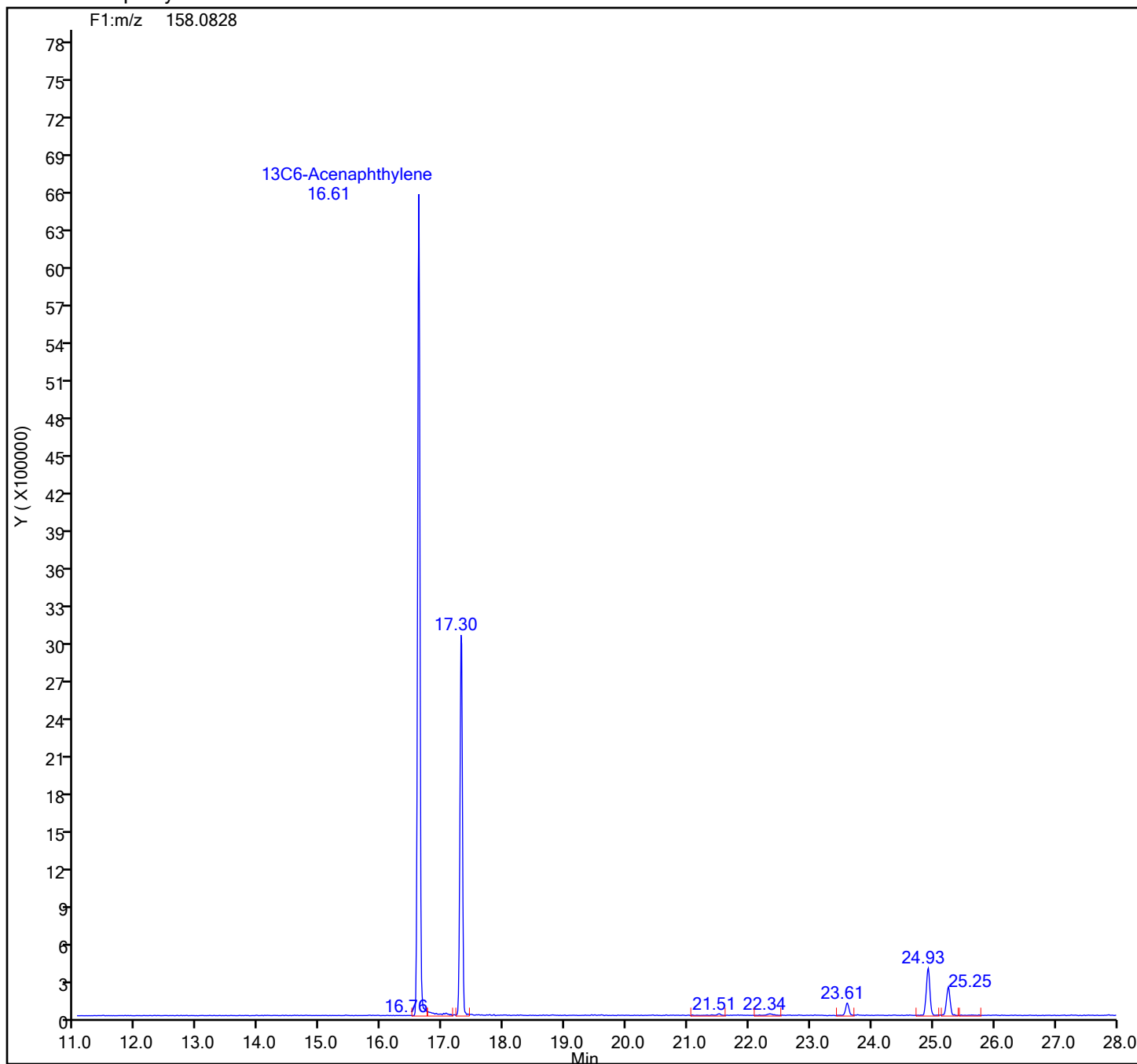


## Acenaphthylene Standards



## Eurofins Knoxville

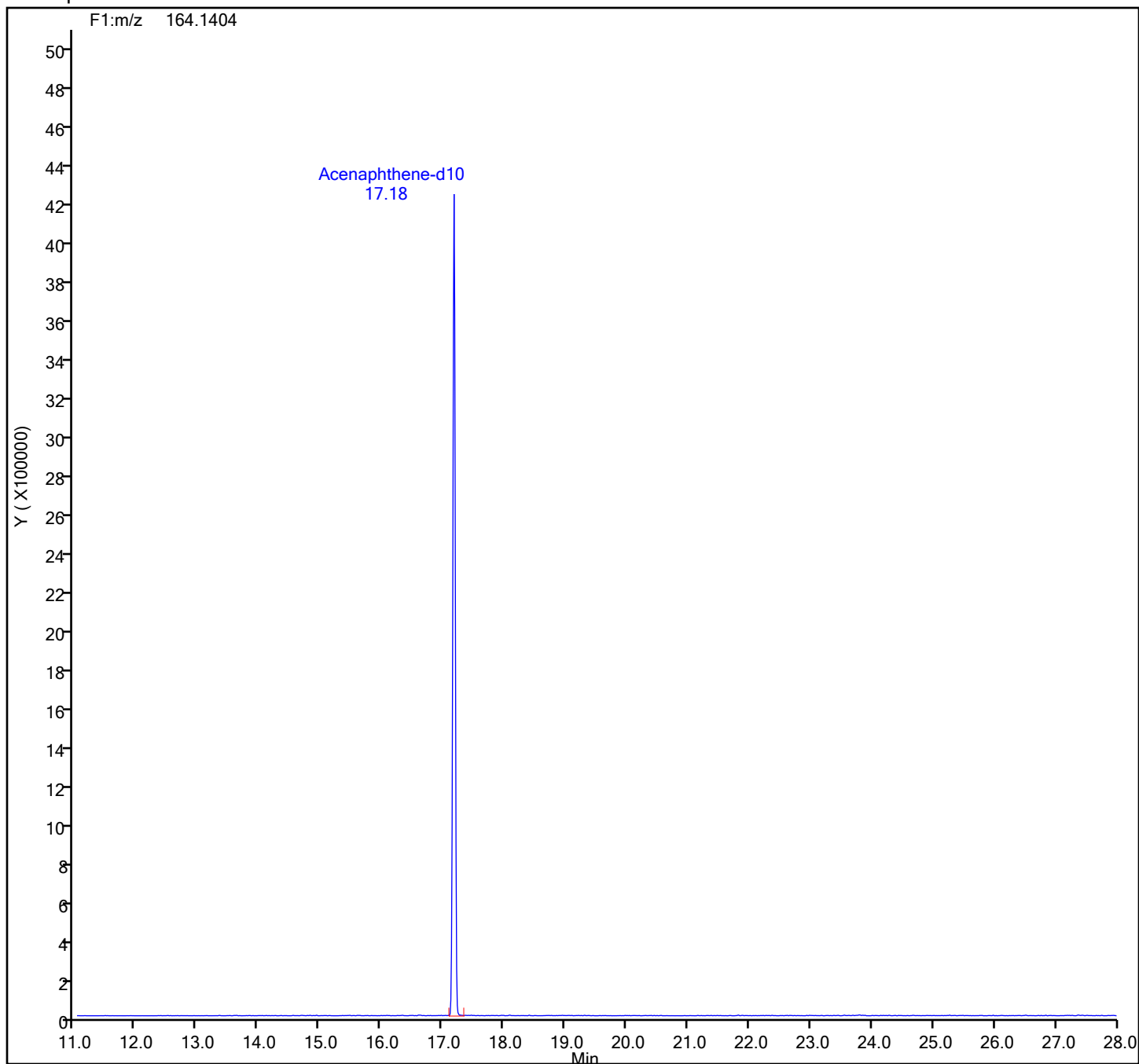
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
13C6-Acenaphthylene Standards



## Eurofins Knoxville

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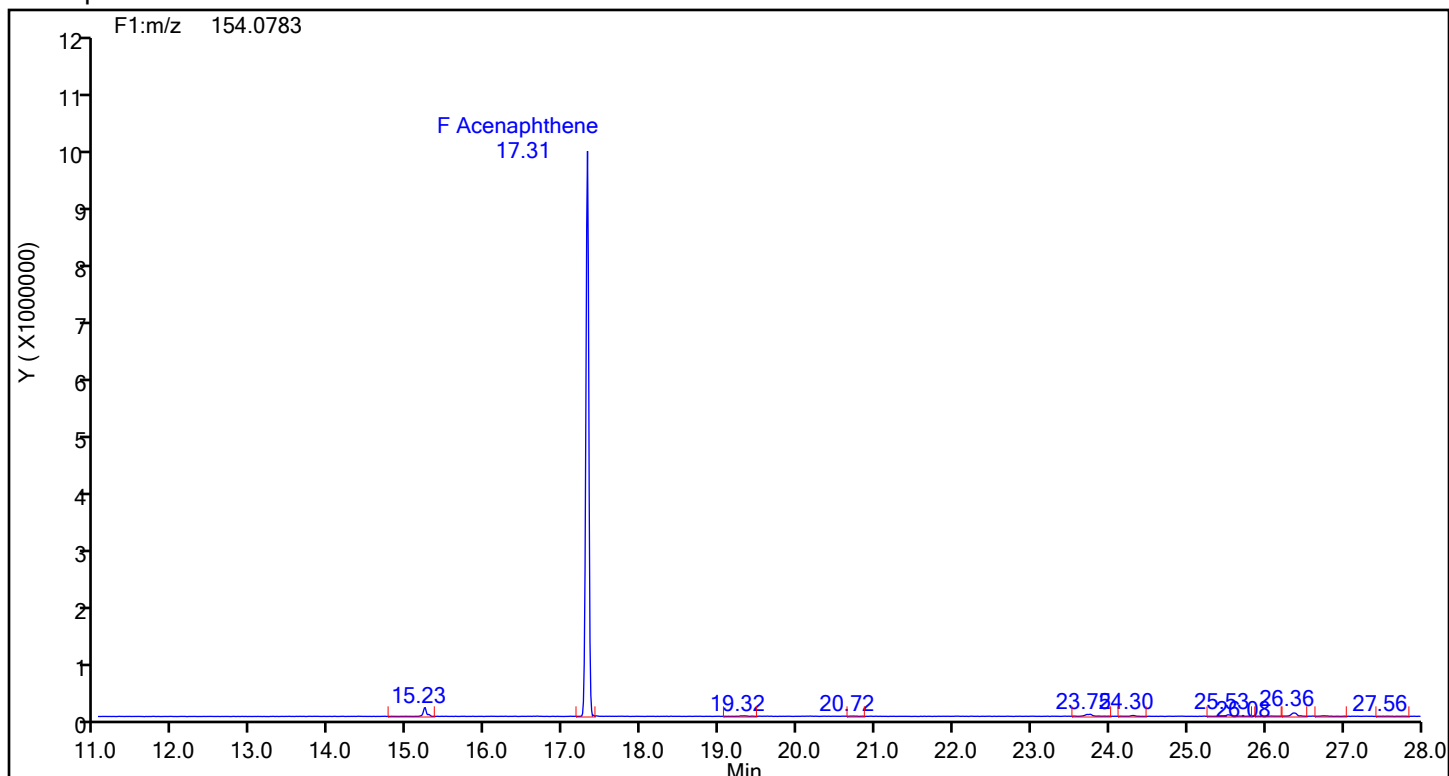
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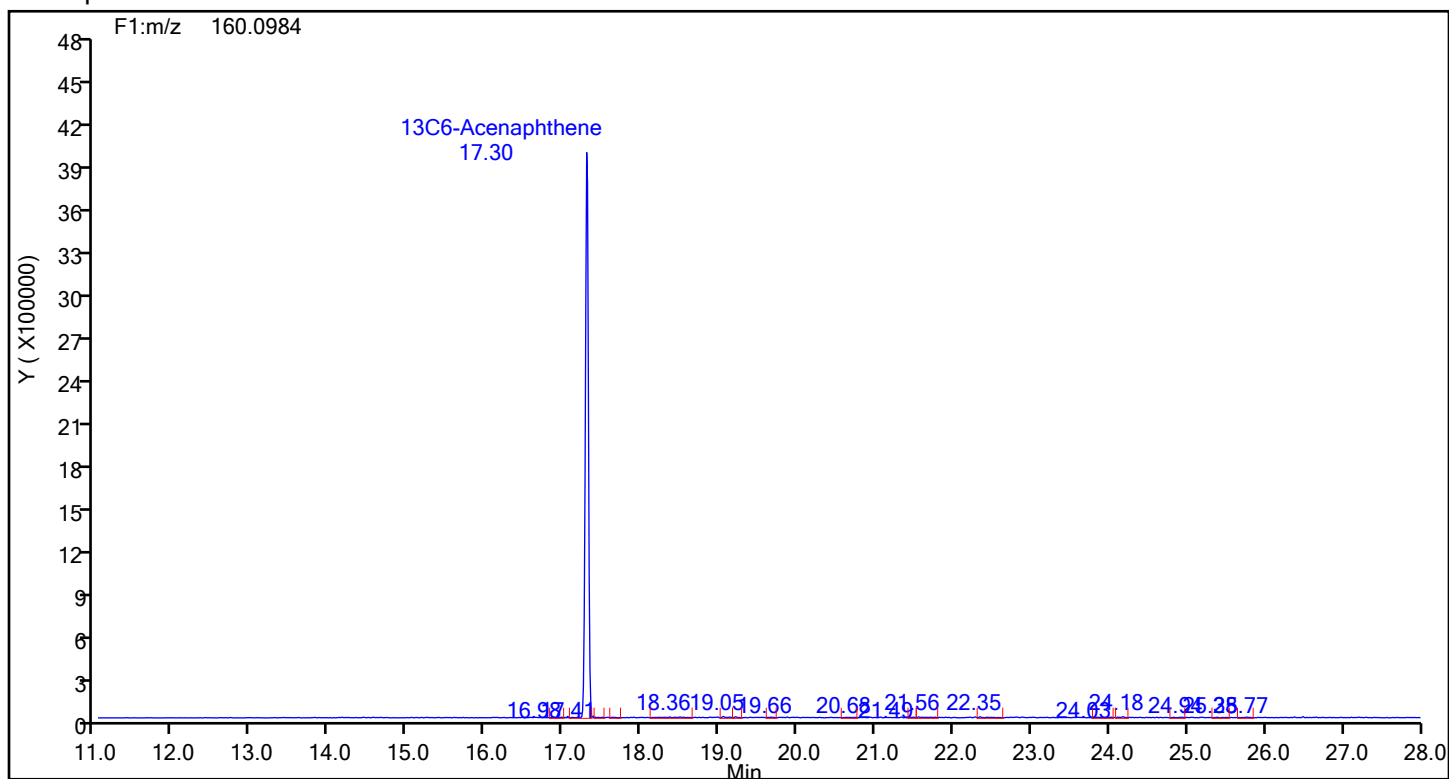
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## Acenaphthene



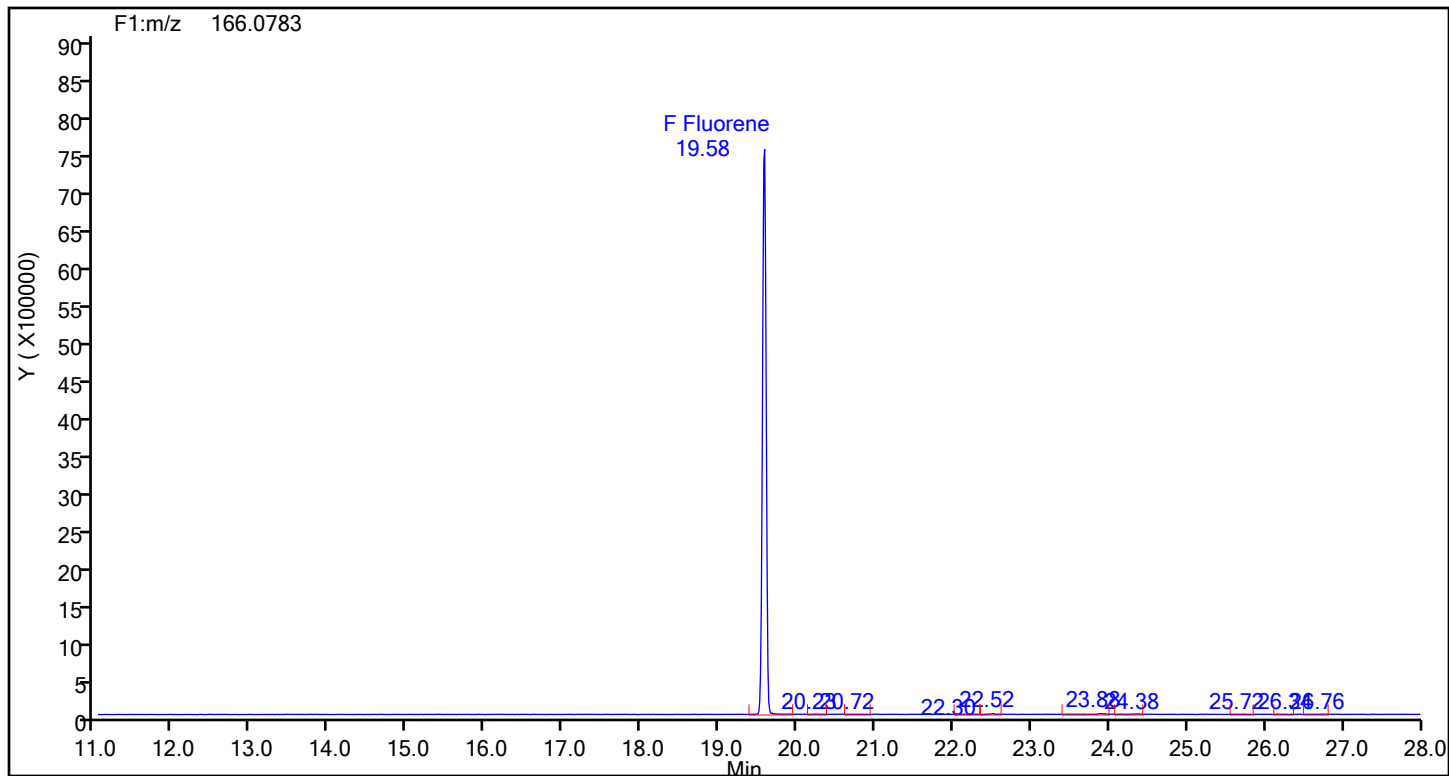
## Acenaphthene Standards



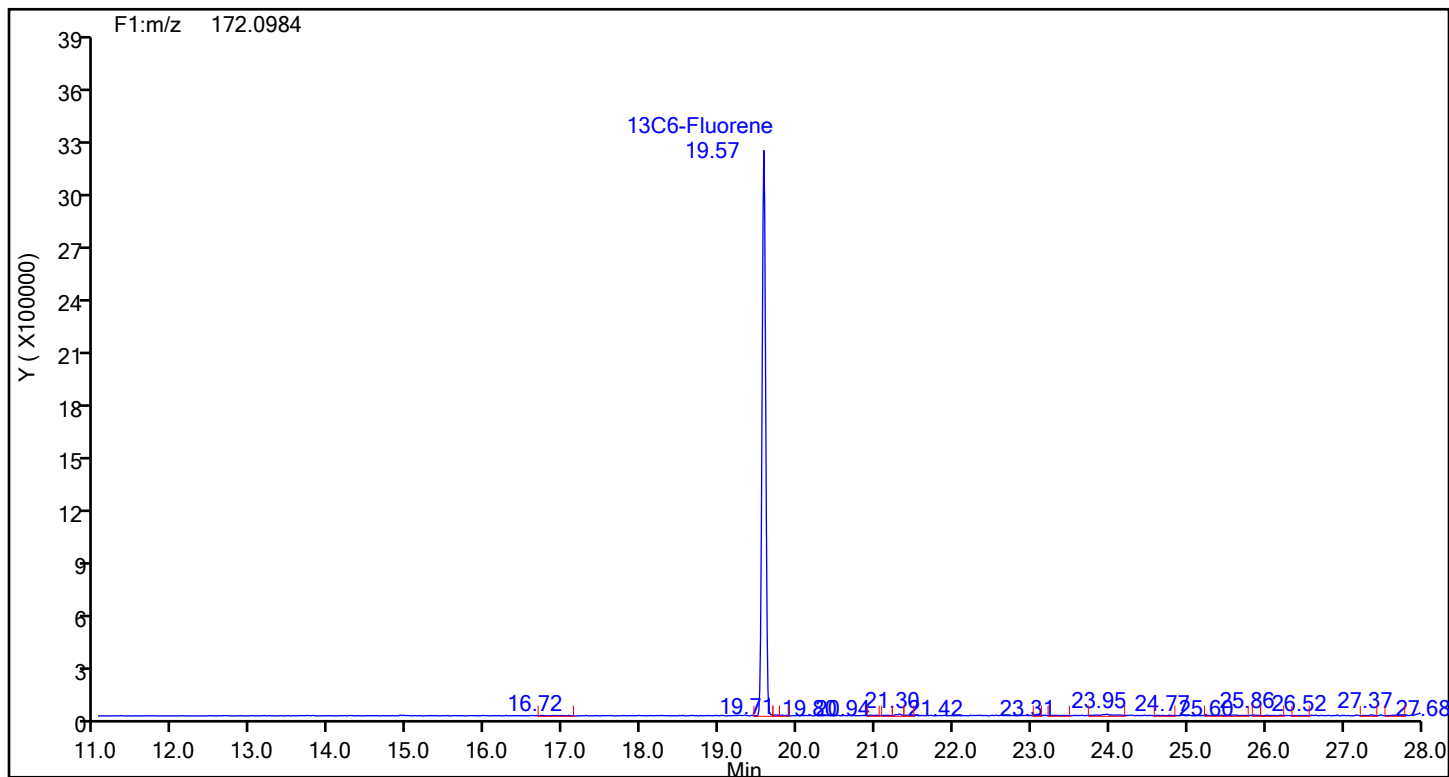
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## Fluorene

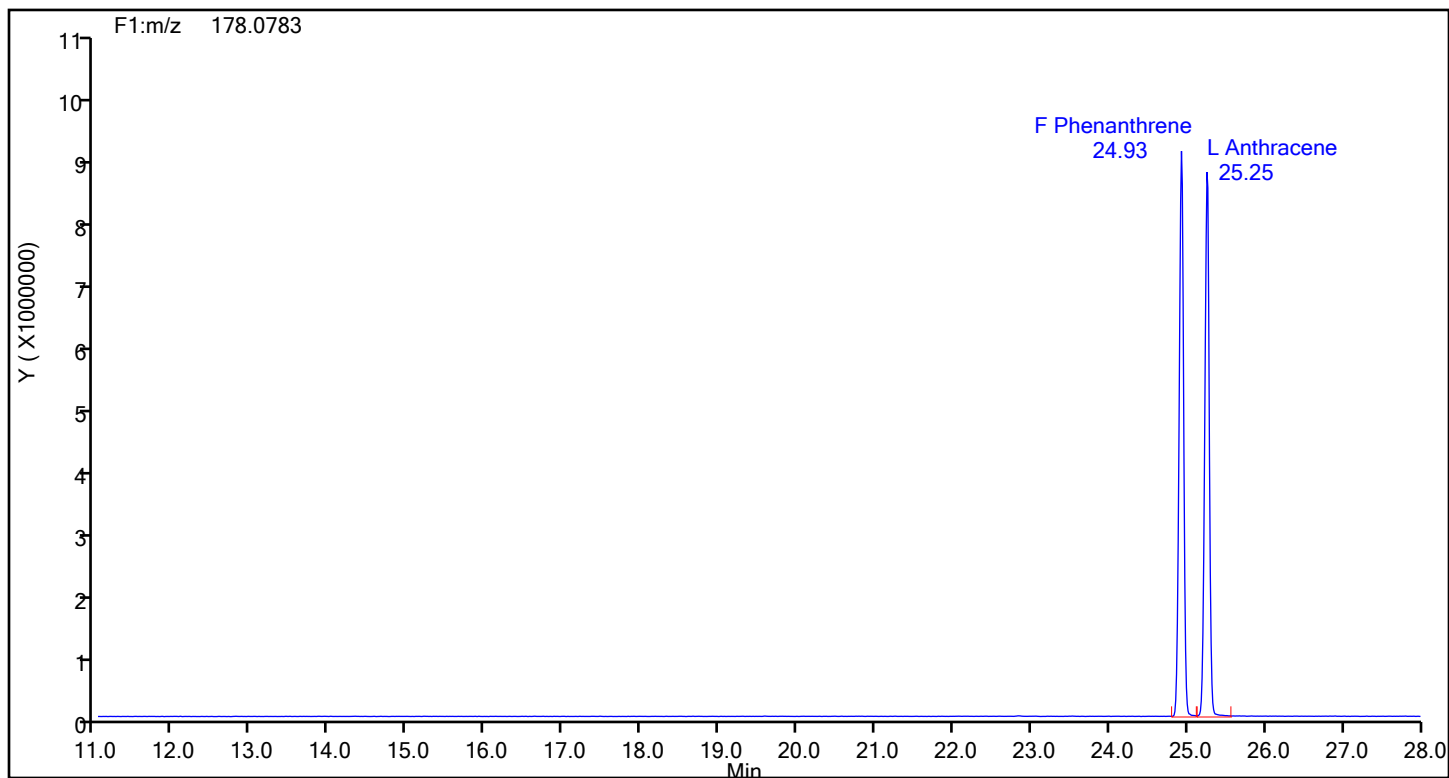


## Fluorene Standards

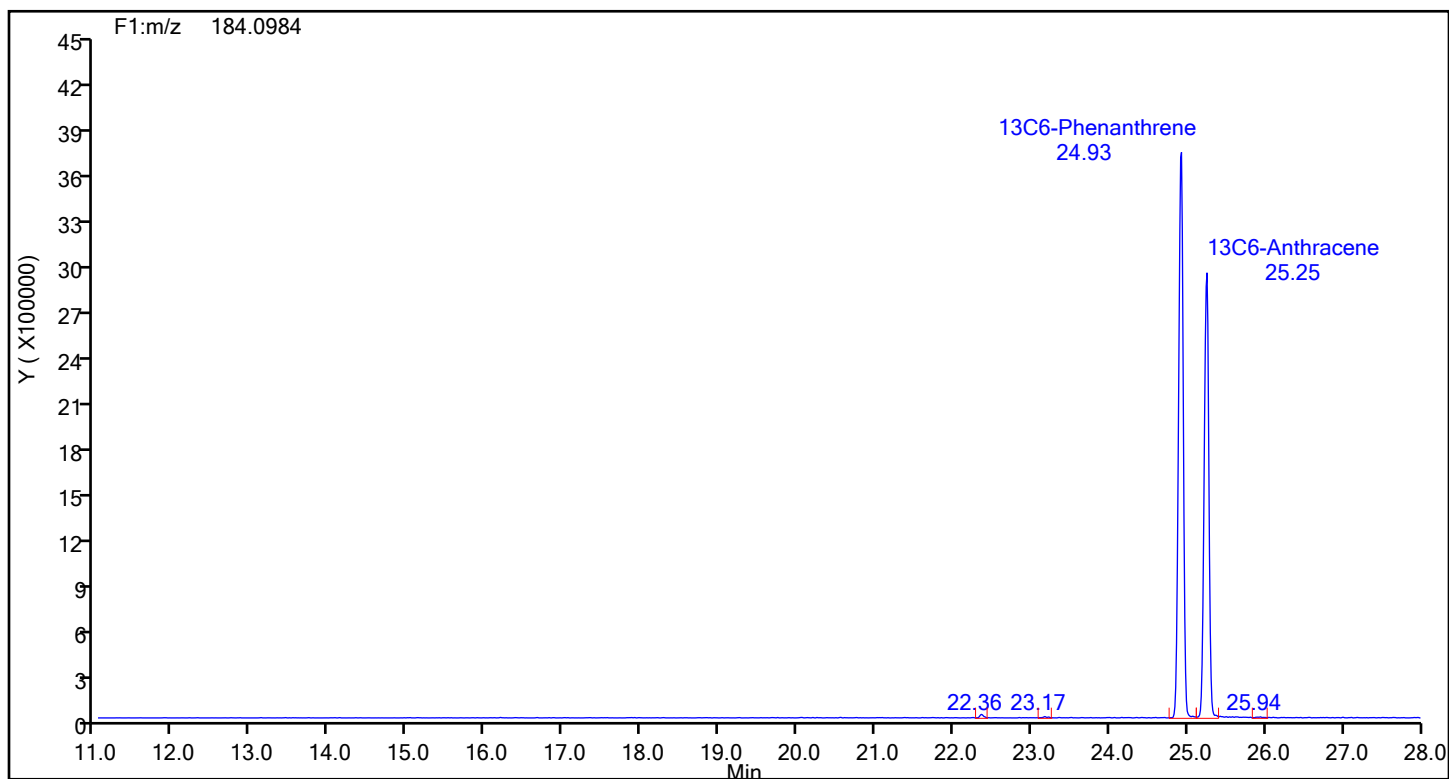


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Phenanthrene



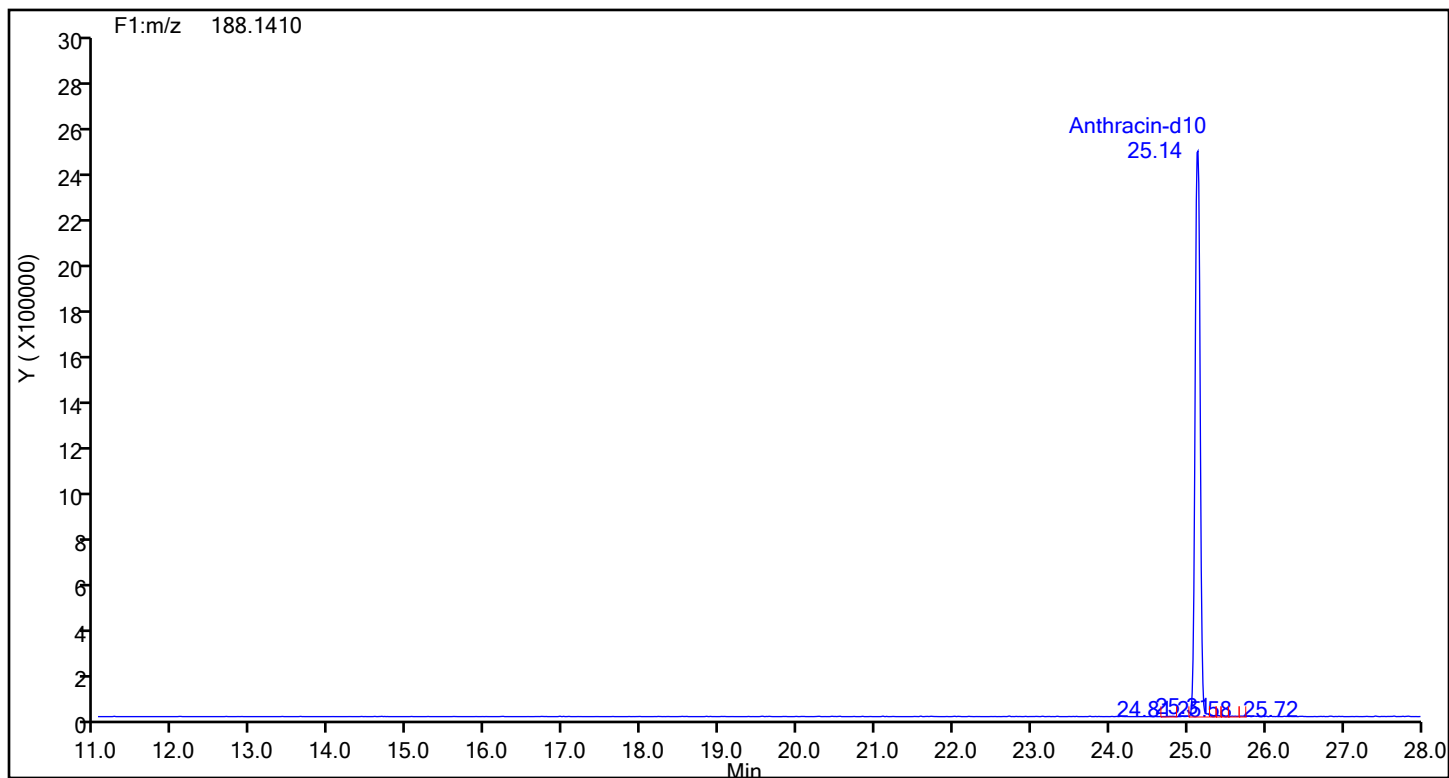
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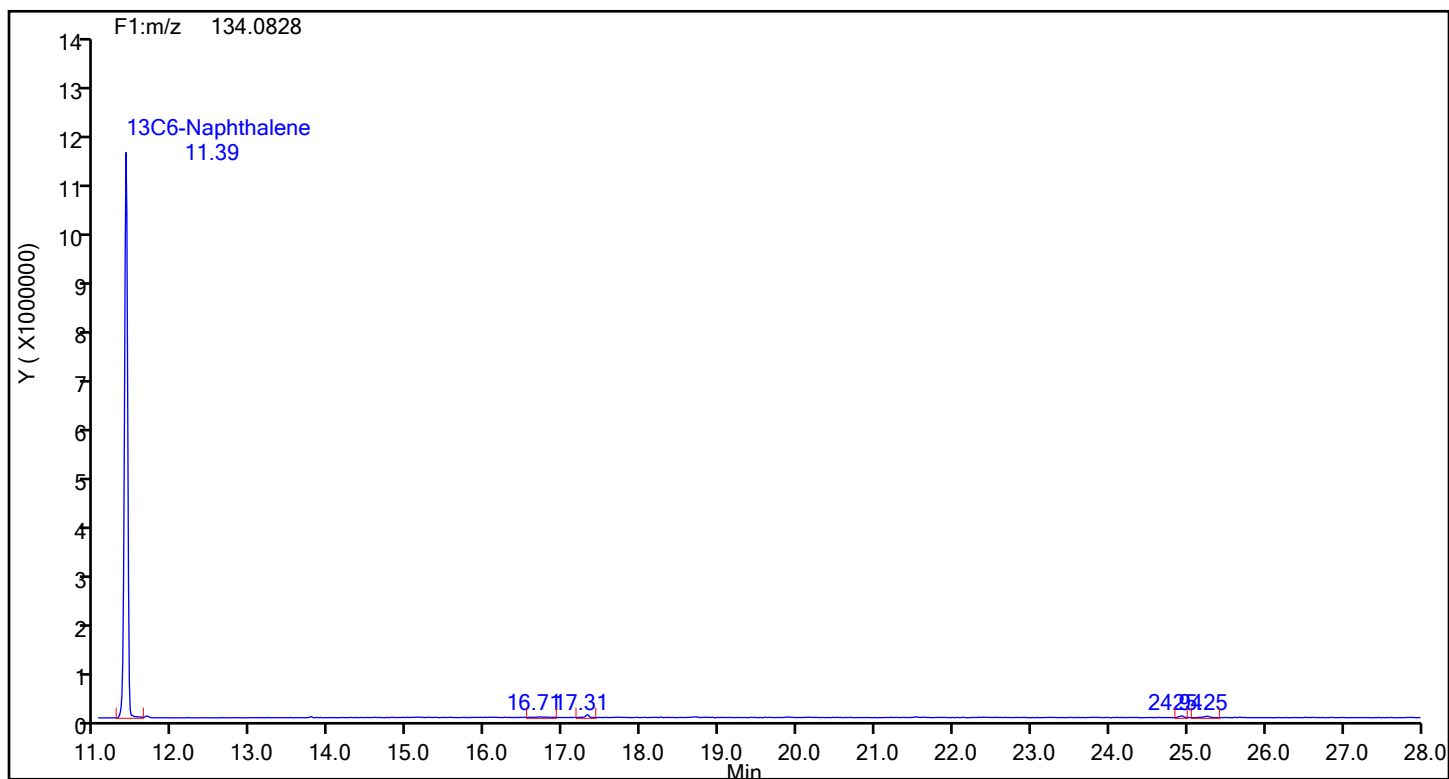


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Anthracin-d10

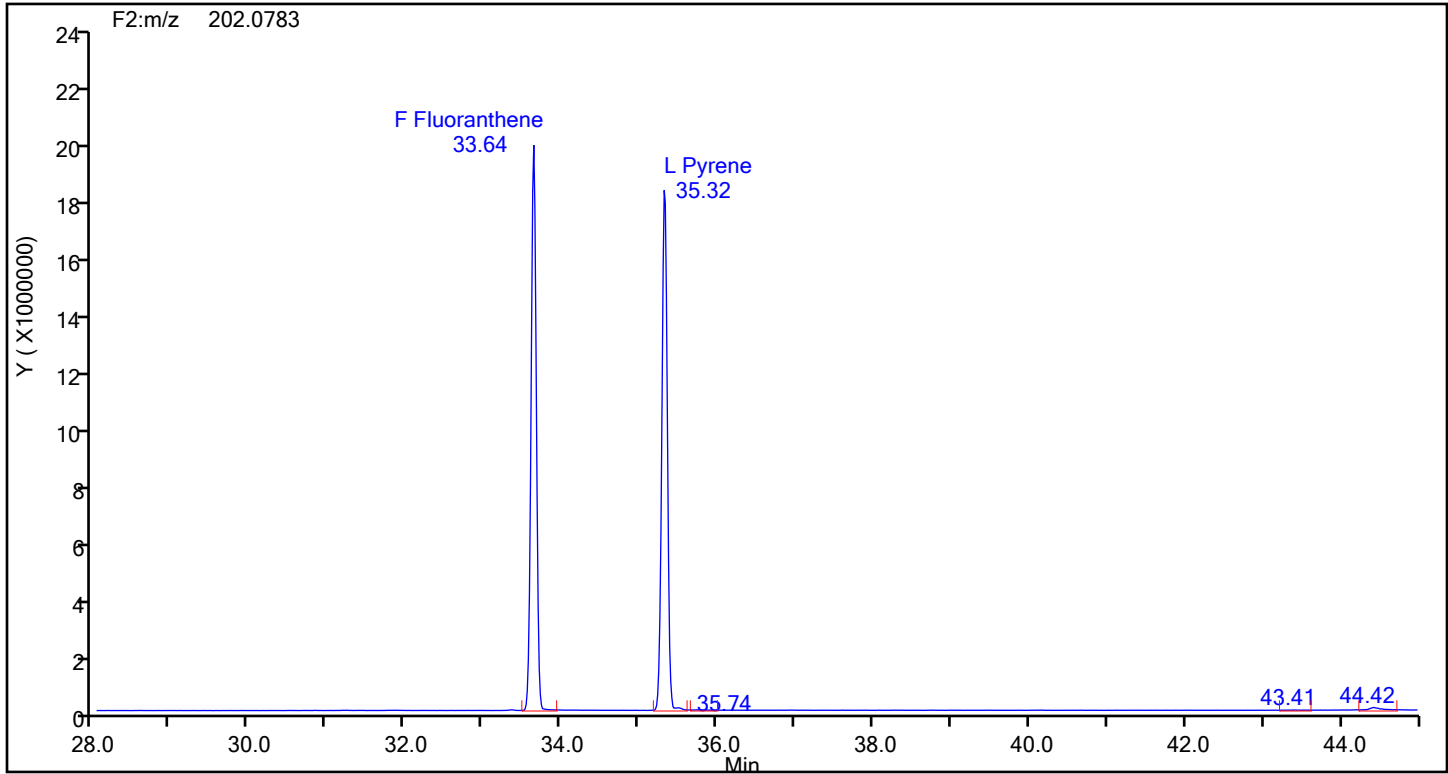


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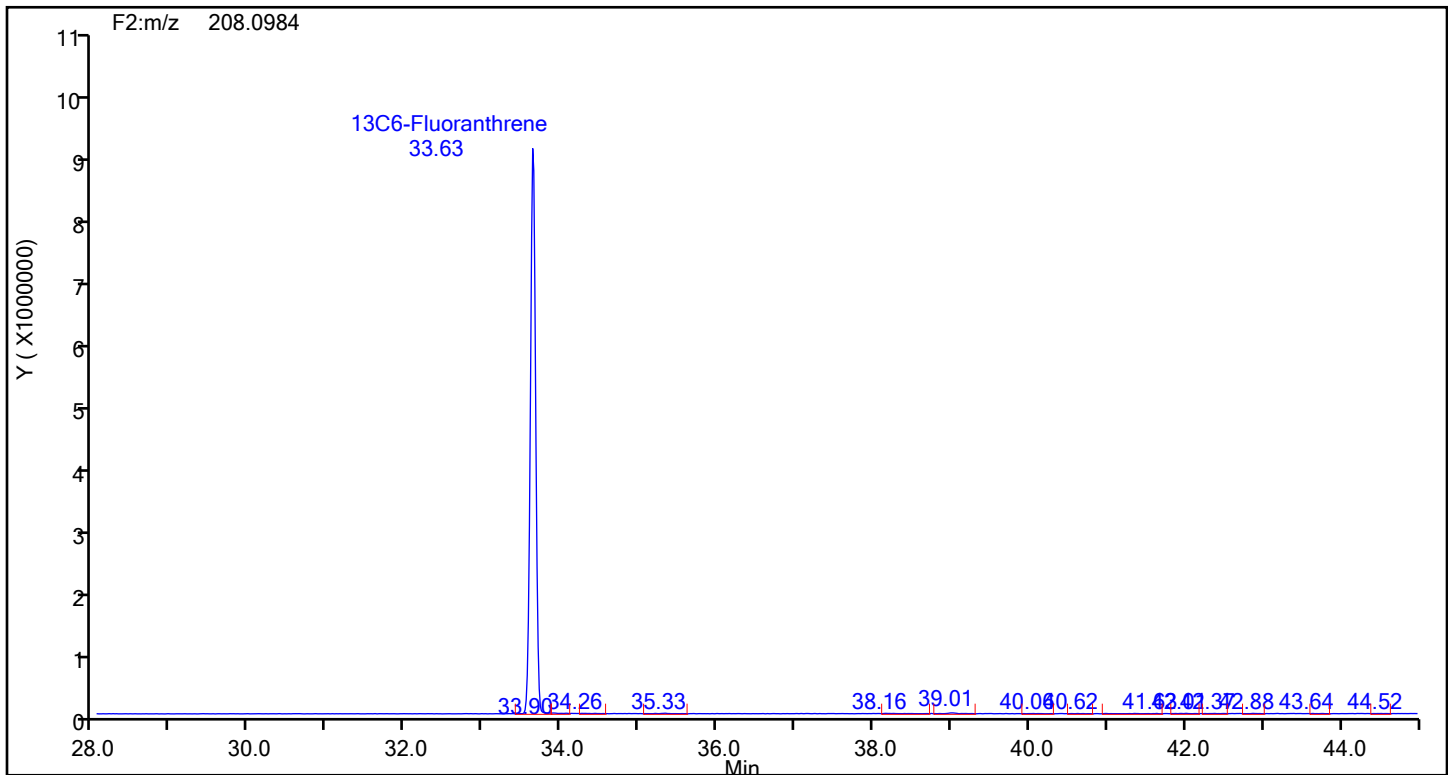


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Fluoranthene



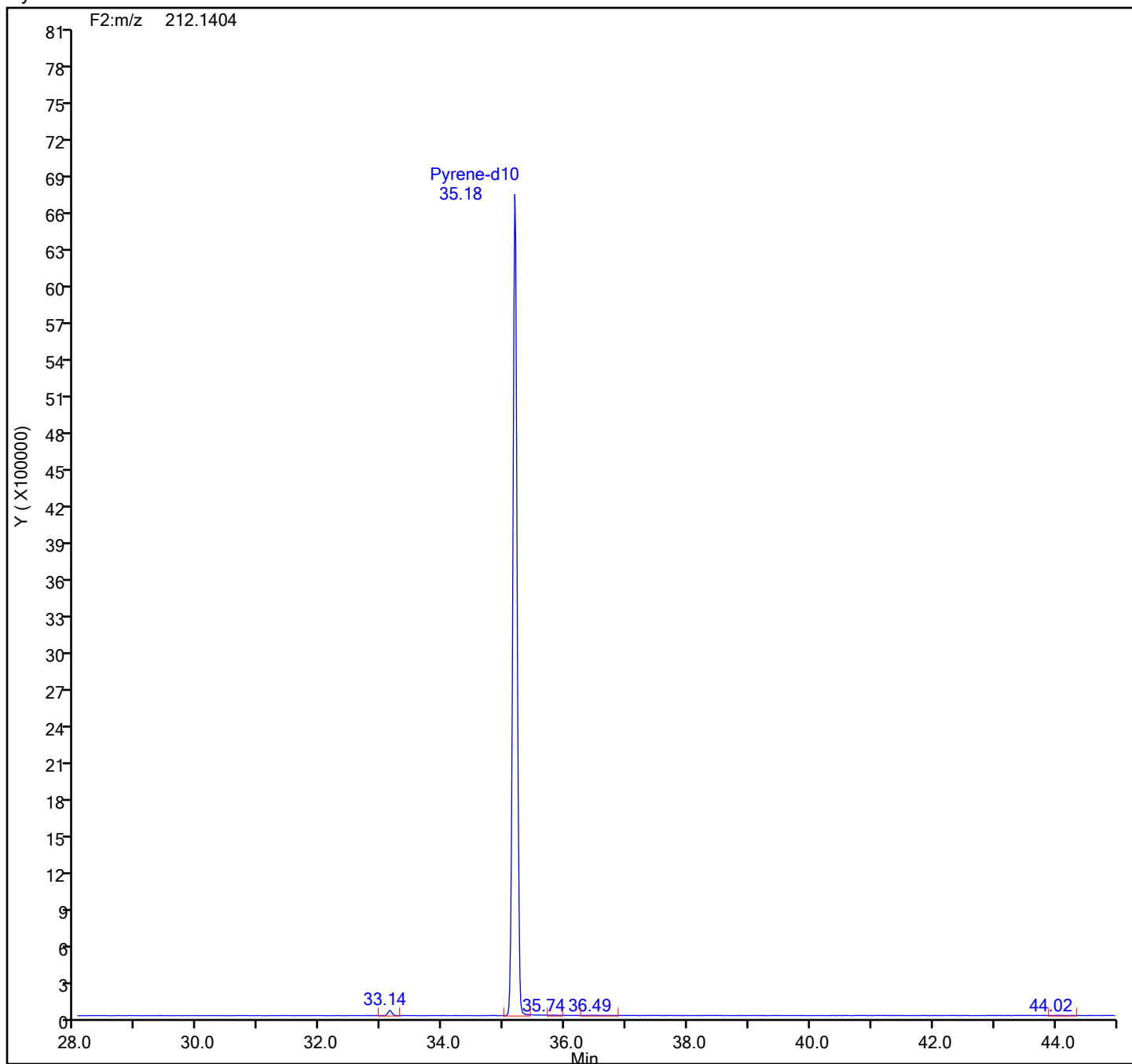
## Fluoranthene Standards



## Eurofins Knoxville

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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

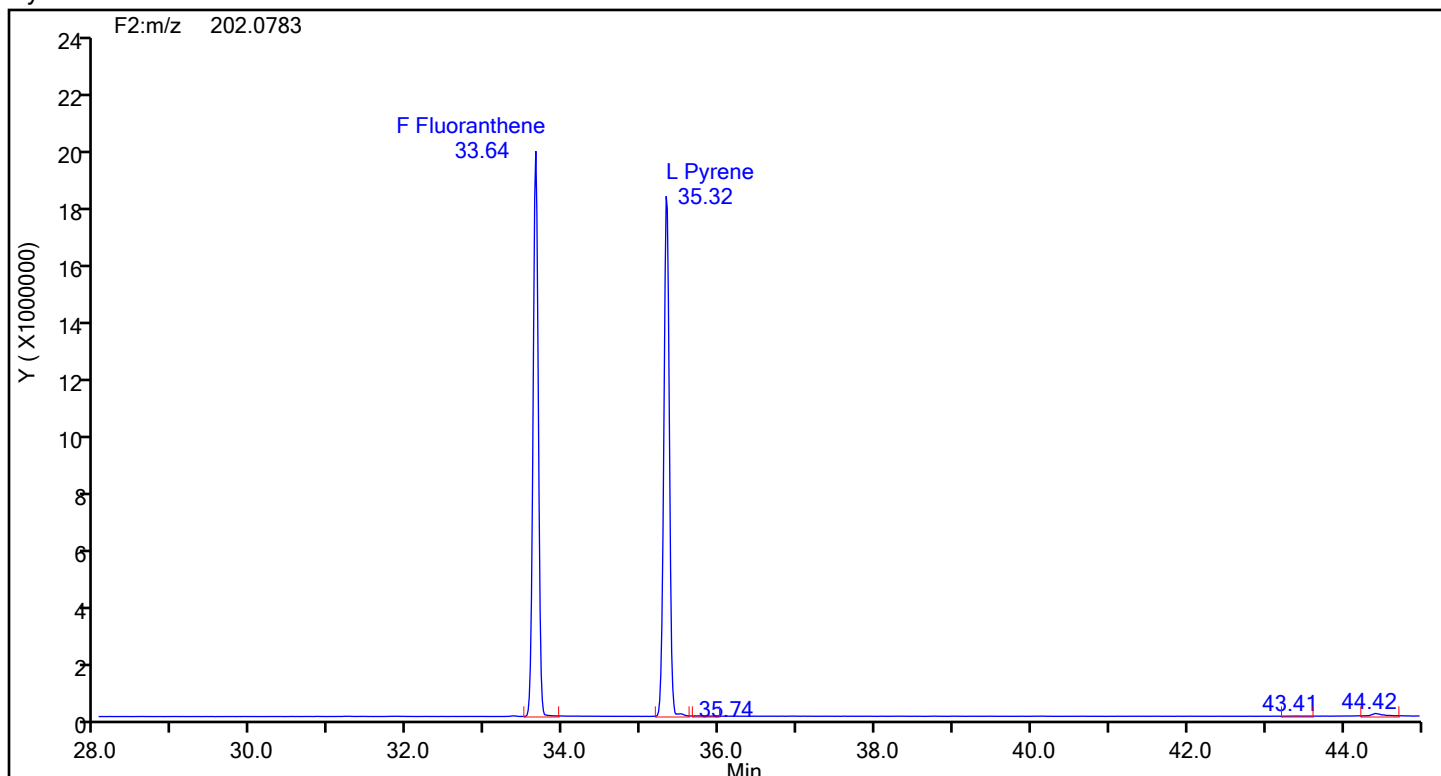
## Pyrene-d10 Standards



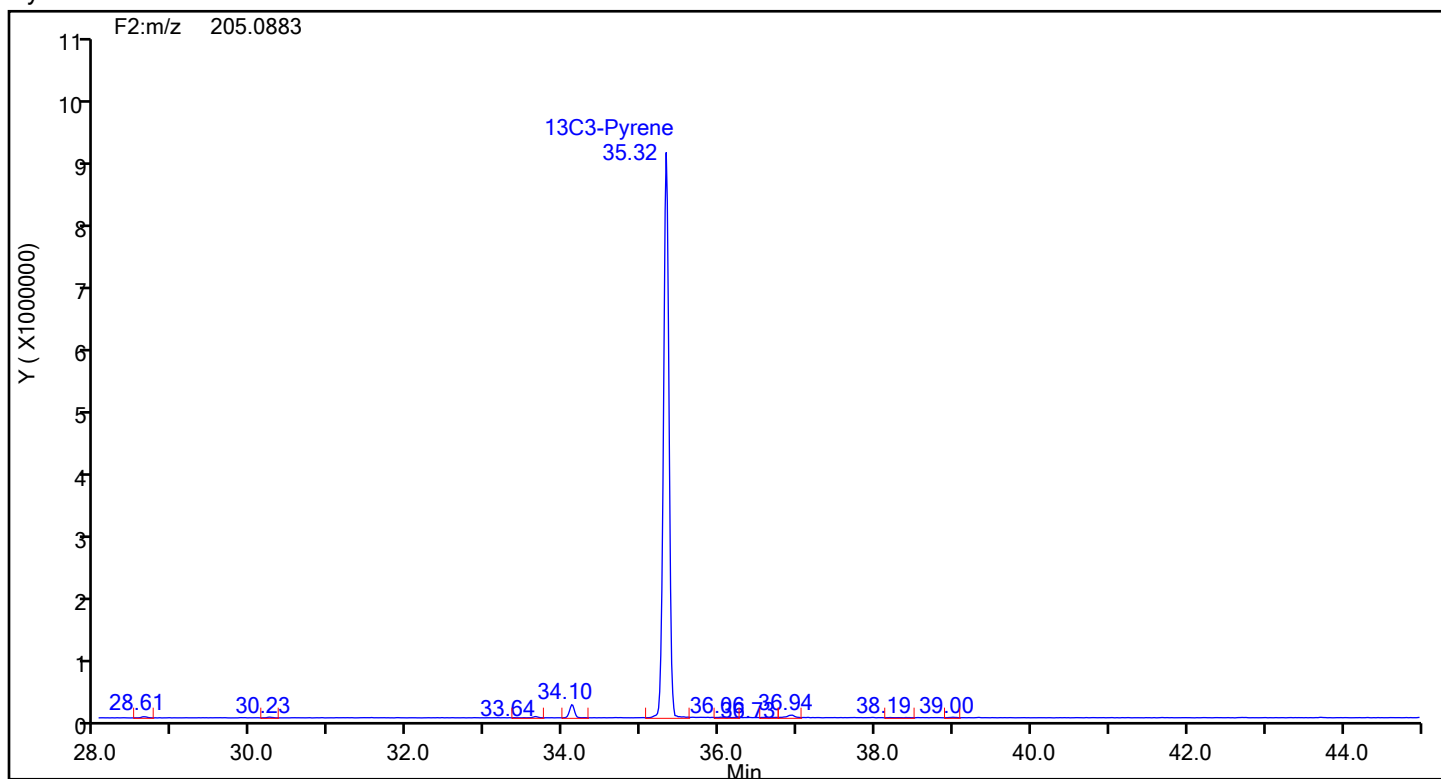
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



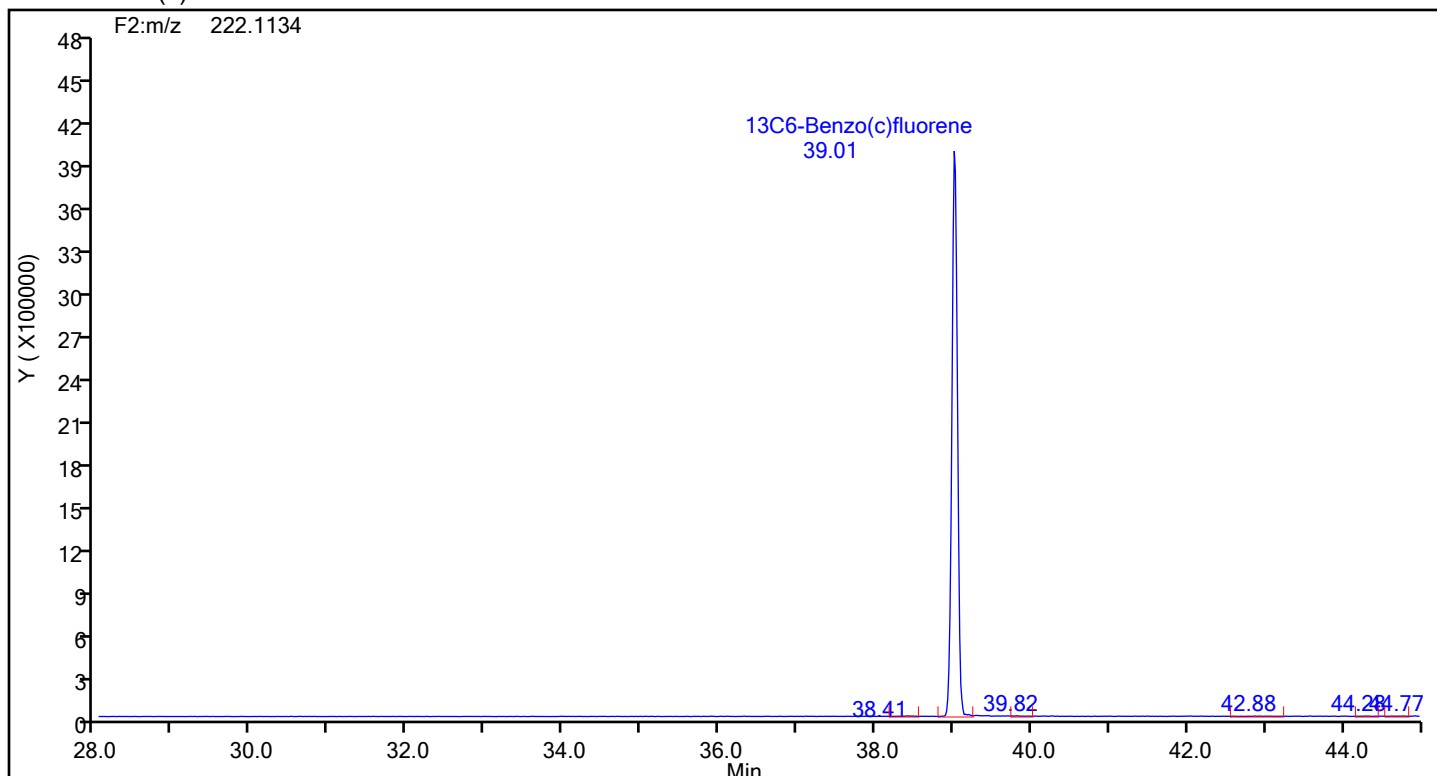
## Pyrene Standards



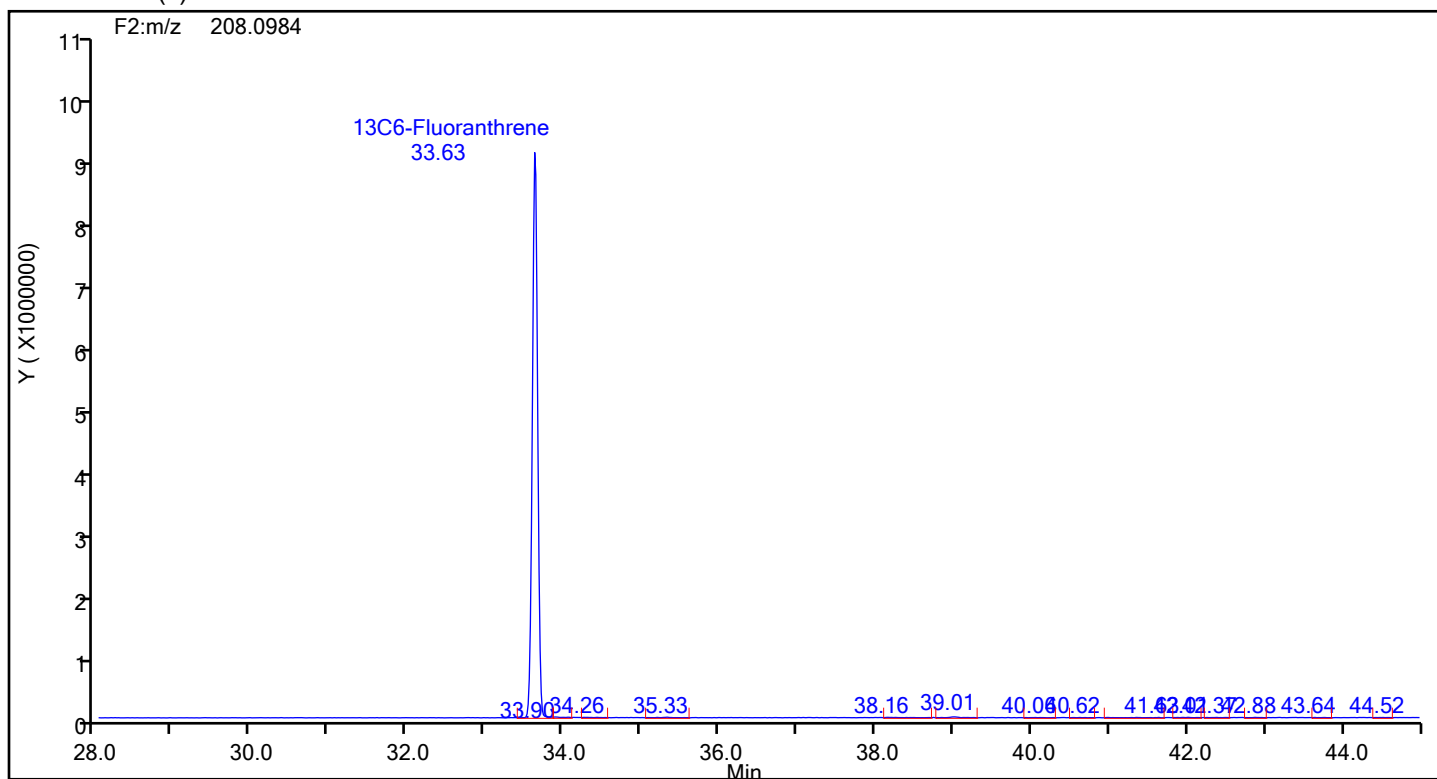
## Eurofins Knoxville

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## 13C6-Benzo(c)fluorene



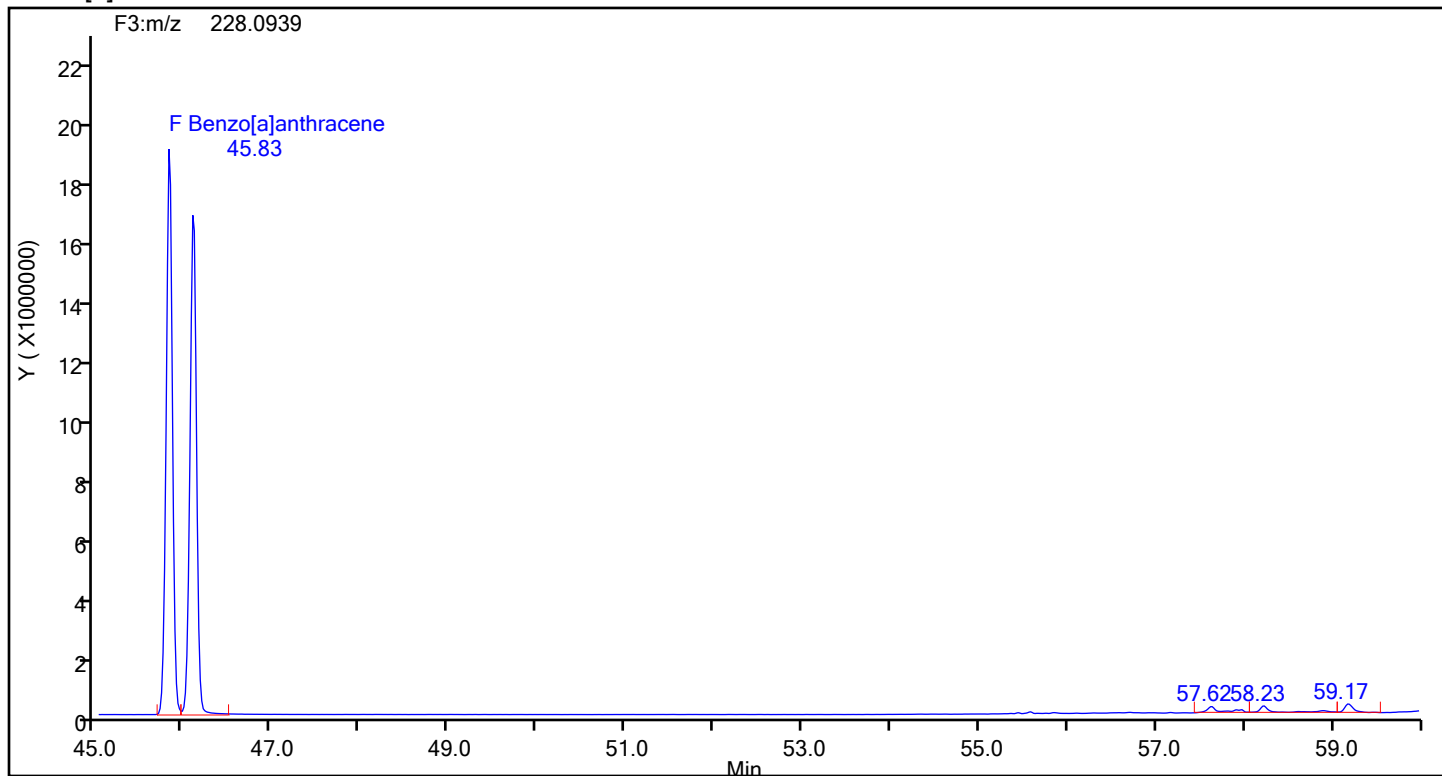
## 13C6-Benzo(c)fluorene Standards



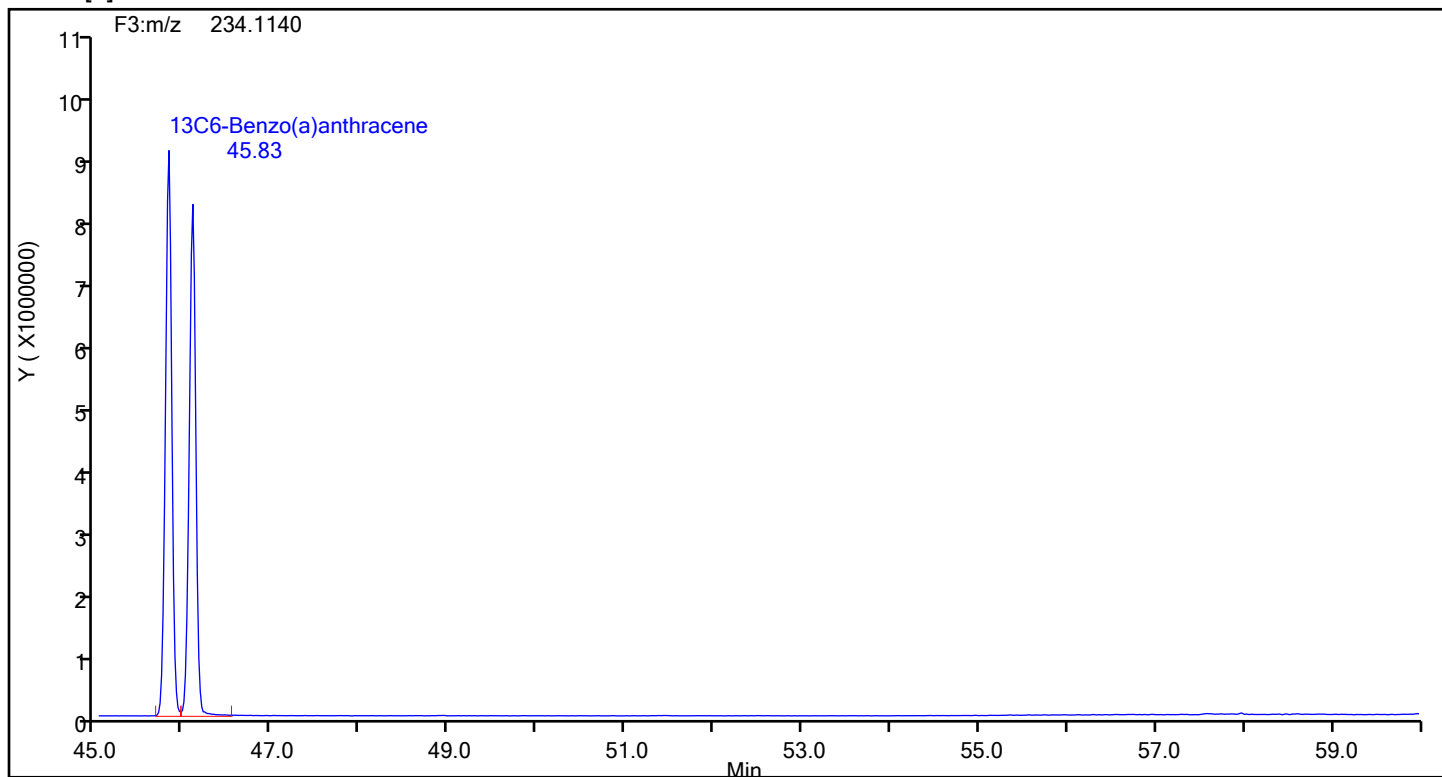
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 88831 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



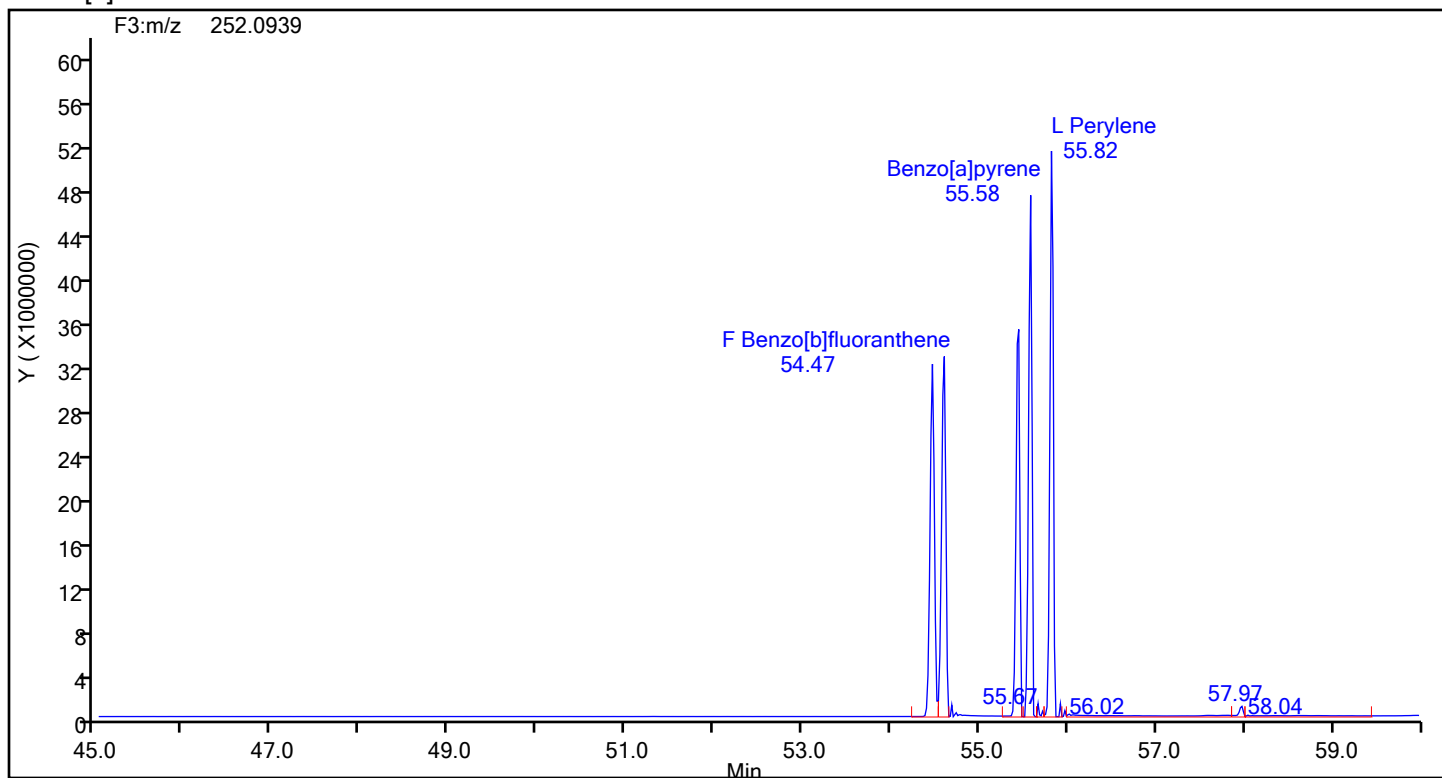
## Benzo[a]anthracene Standards



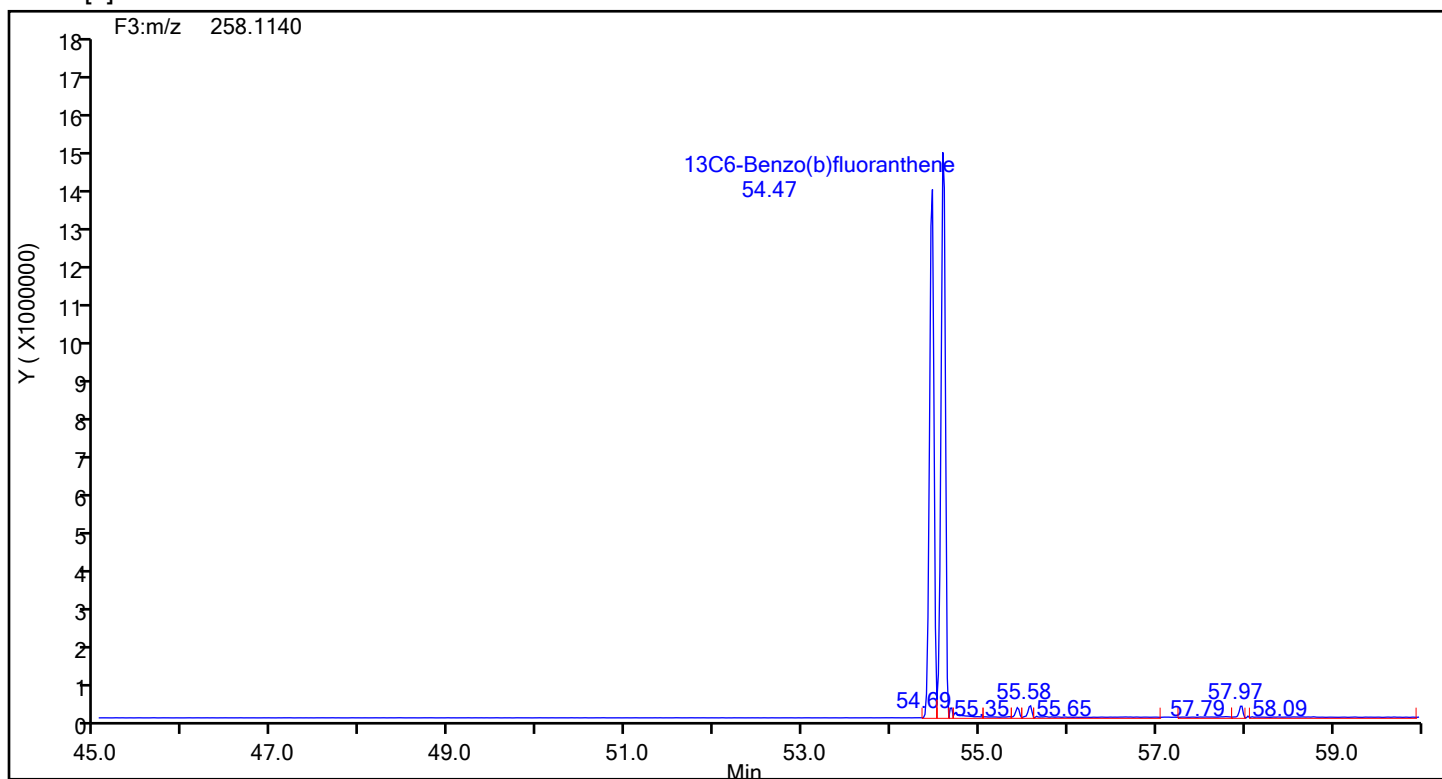
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 88831 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



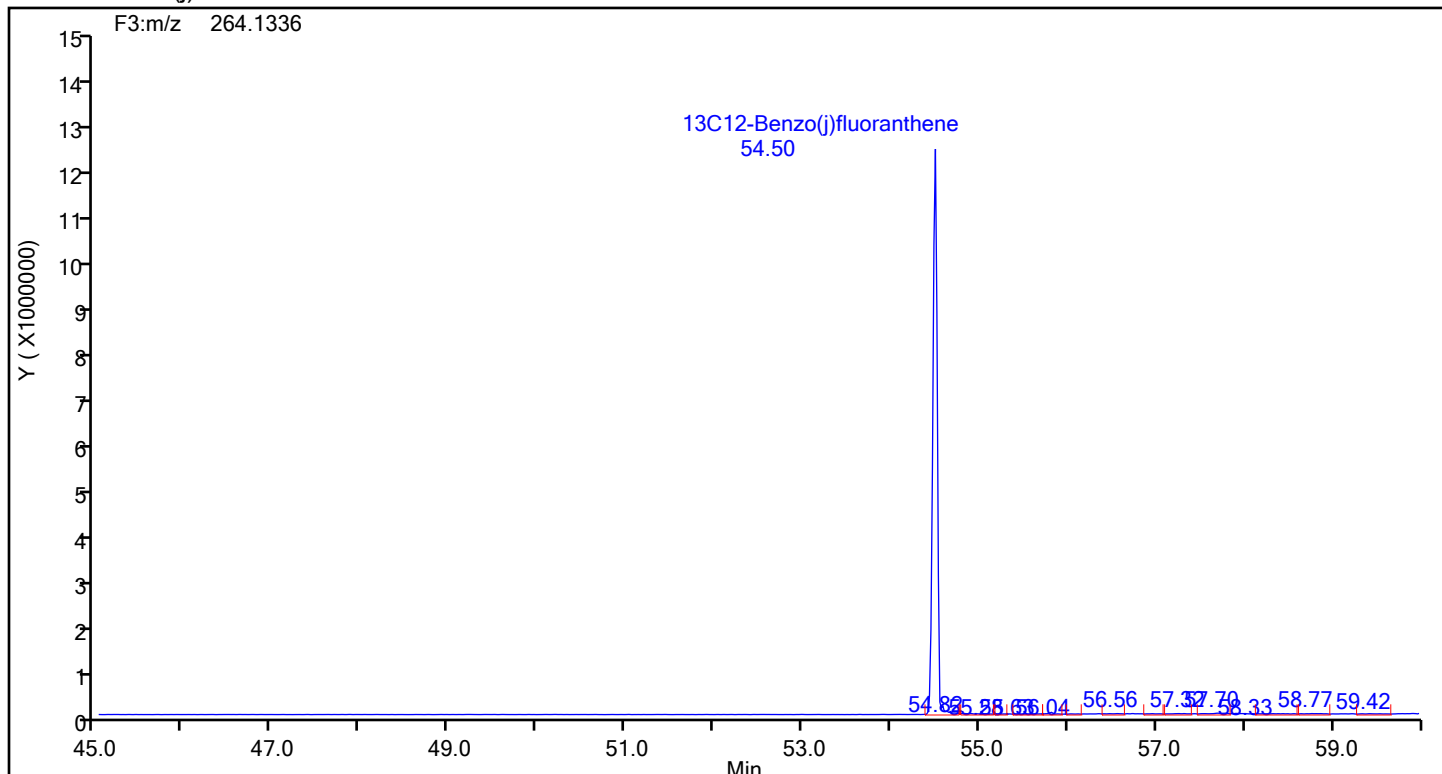
## Benzo[b]fluoranthene Standards



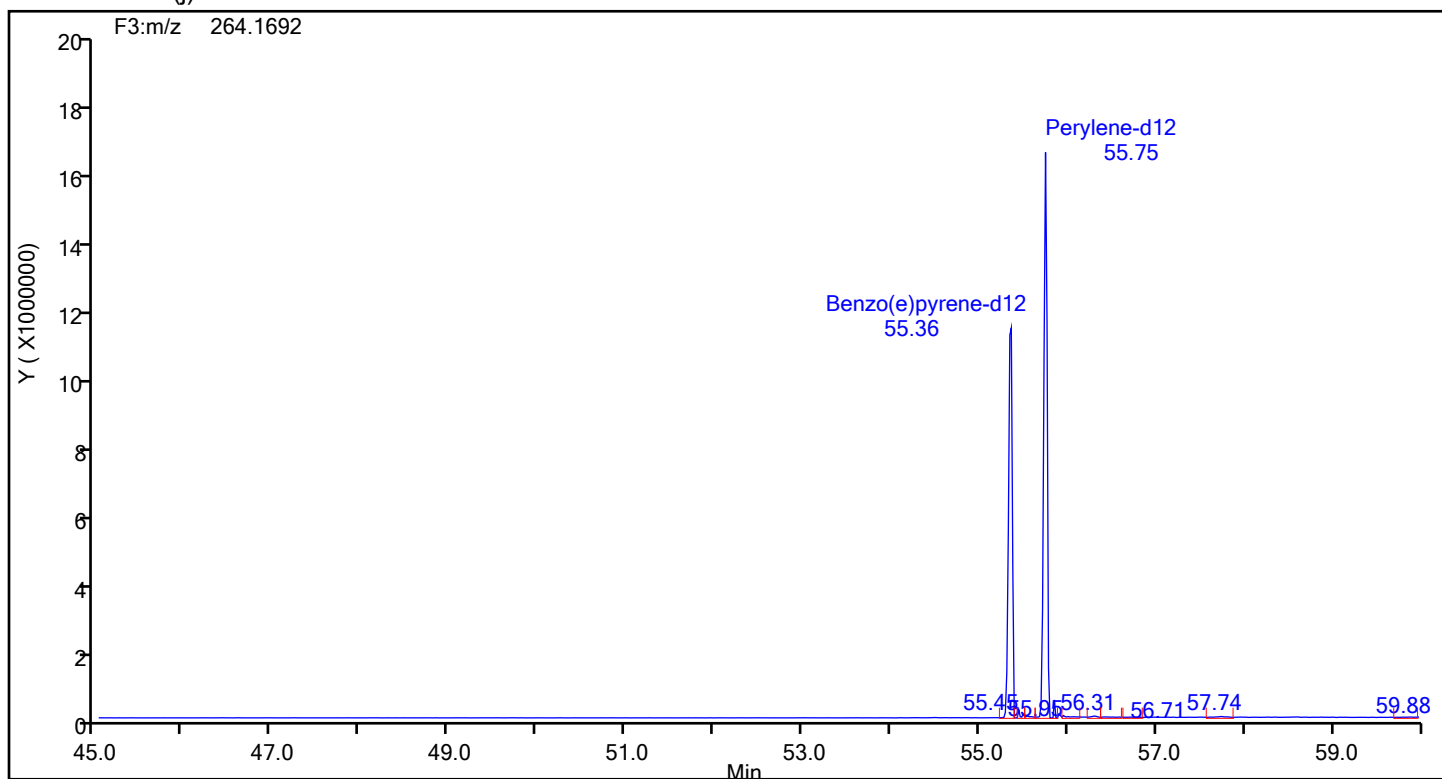
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 88831 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



## 13C12-Benzo(j)fluoranthene Standards

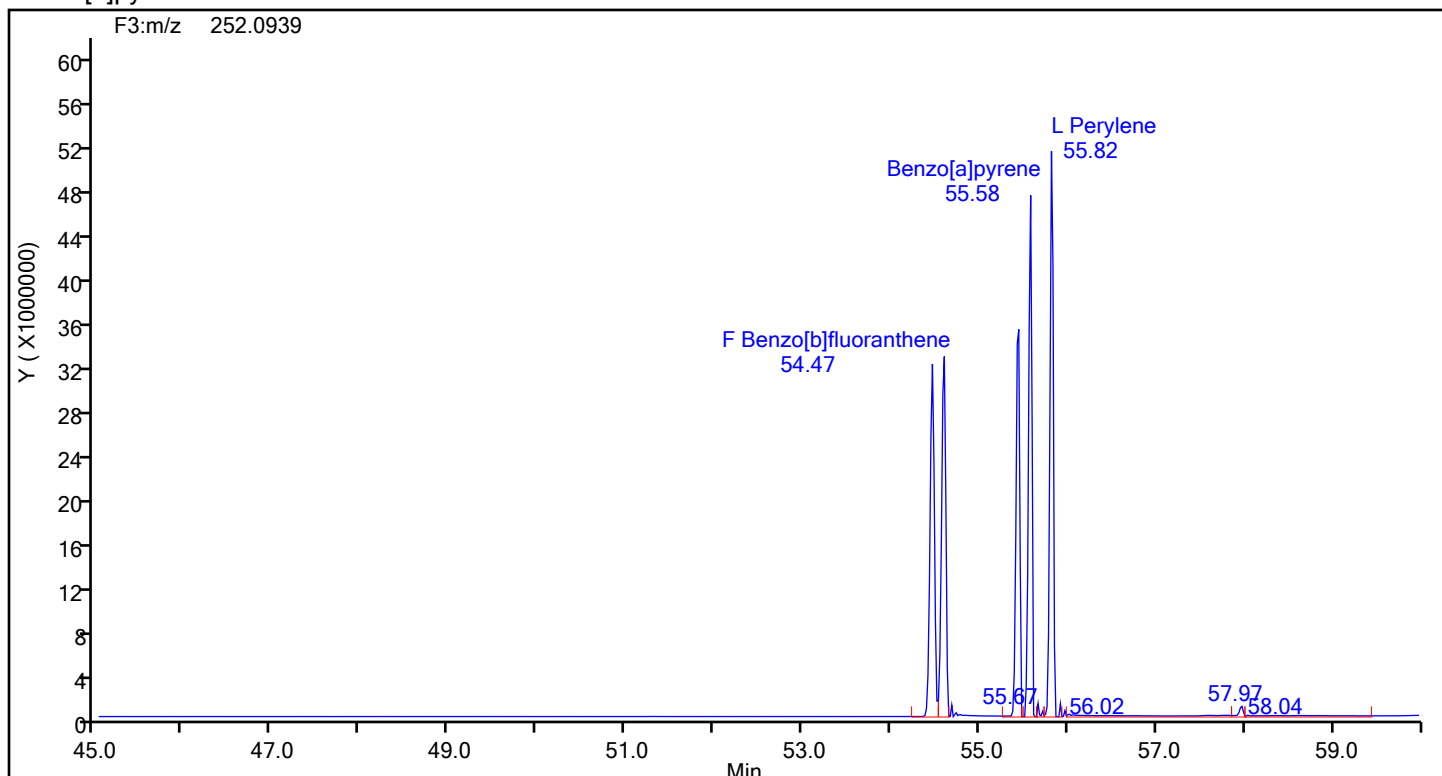




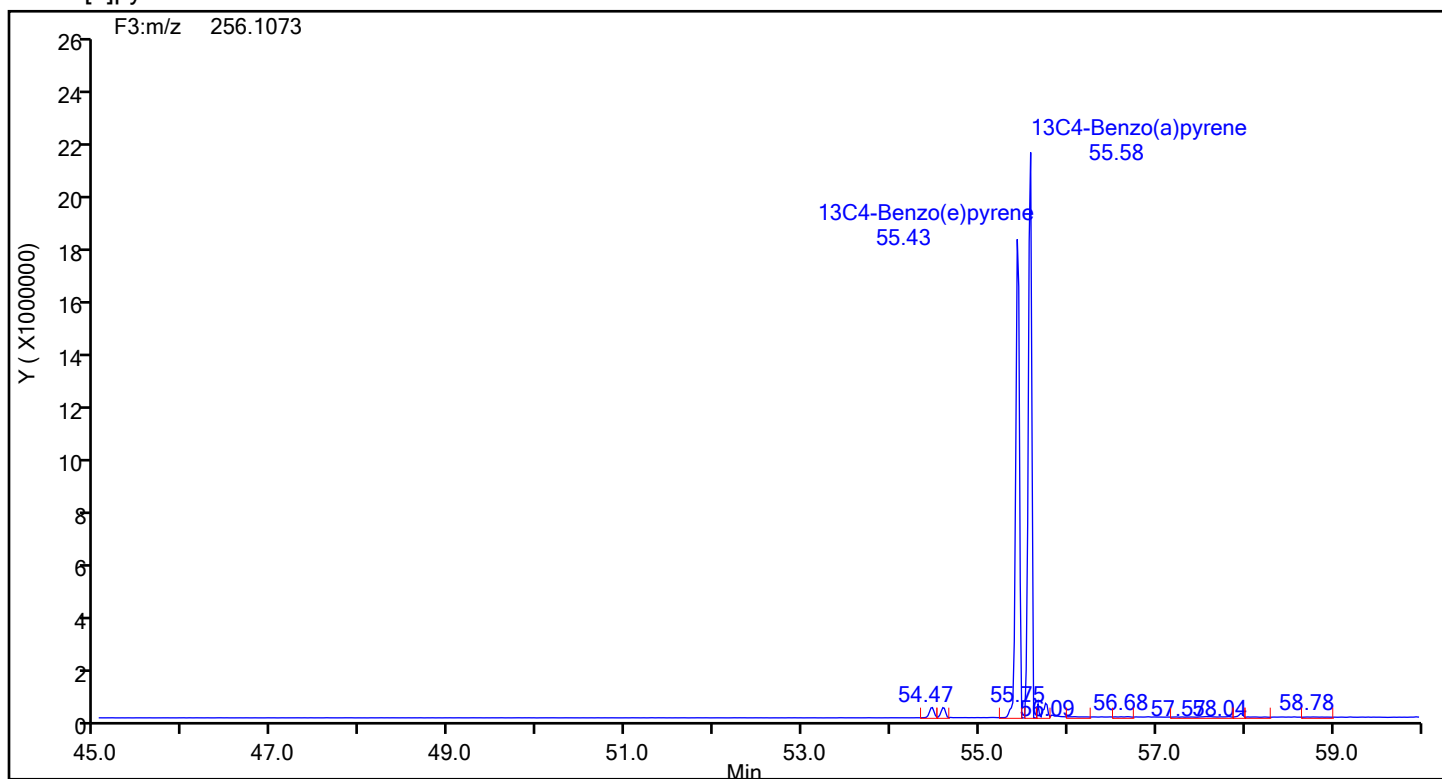
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\d3240716c4a.d  
Injection Date: 16-Jul-2024 23:22:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88831 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene

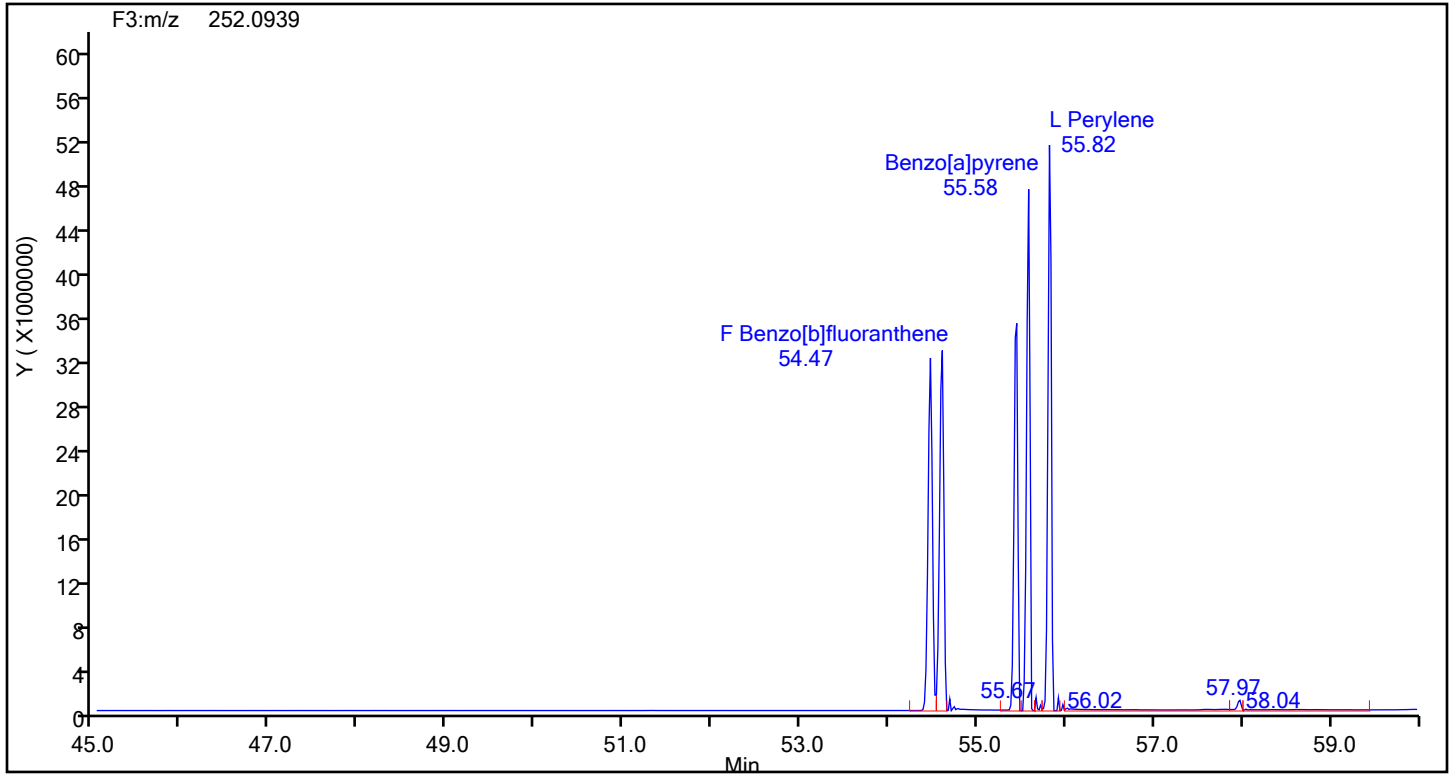


## Benzo[e]pyrene Standards

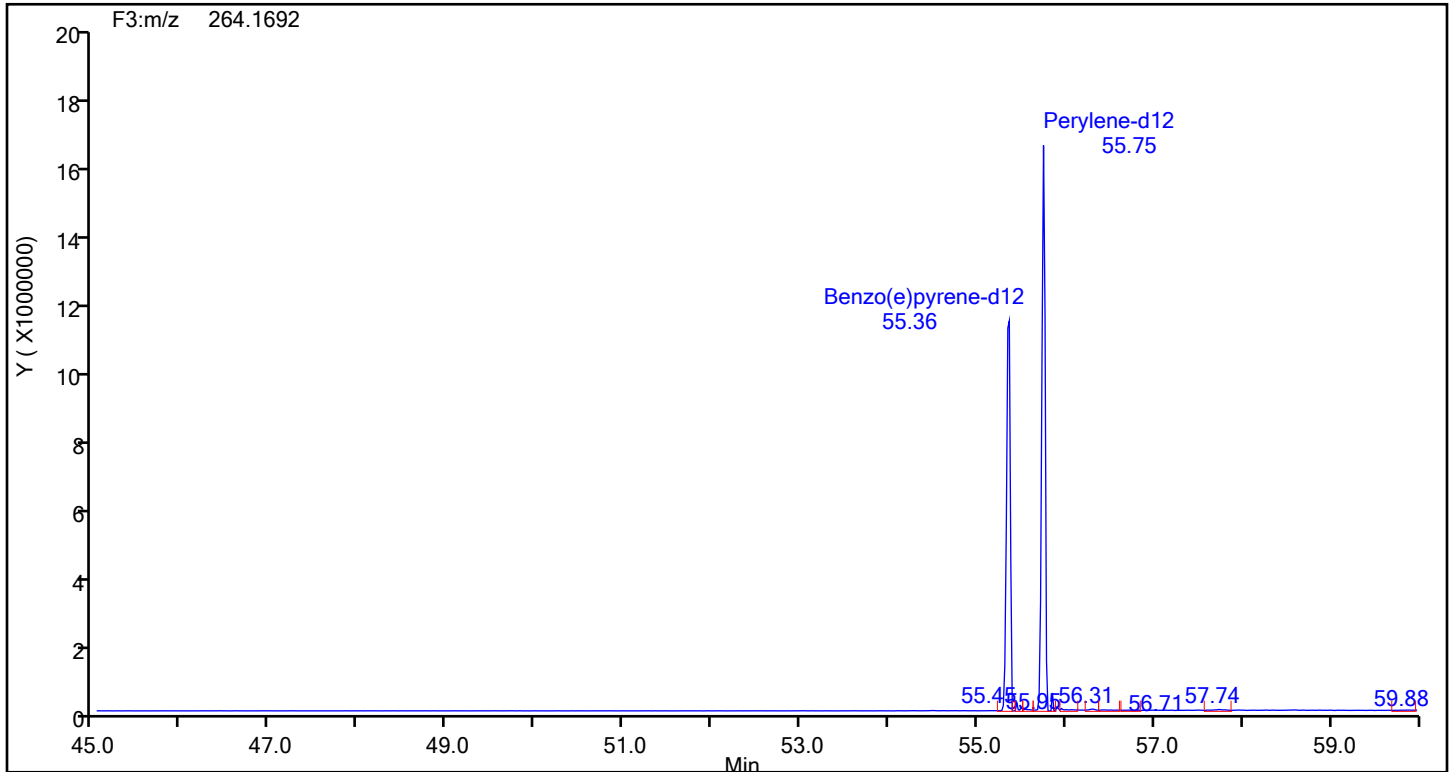


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\d3240716c4a.d  
Injection Date: 16-Jul-2024 23:22:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAL ICAL  
Client ID:  
Worklist#: 88831 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Perylene



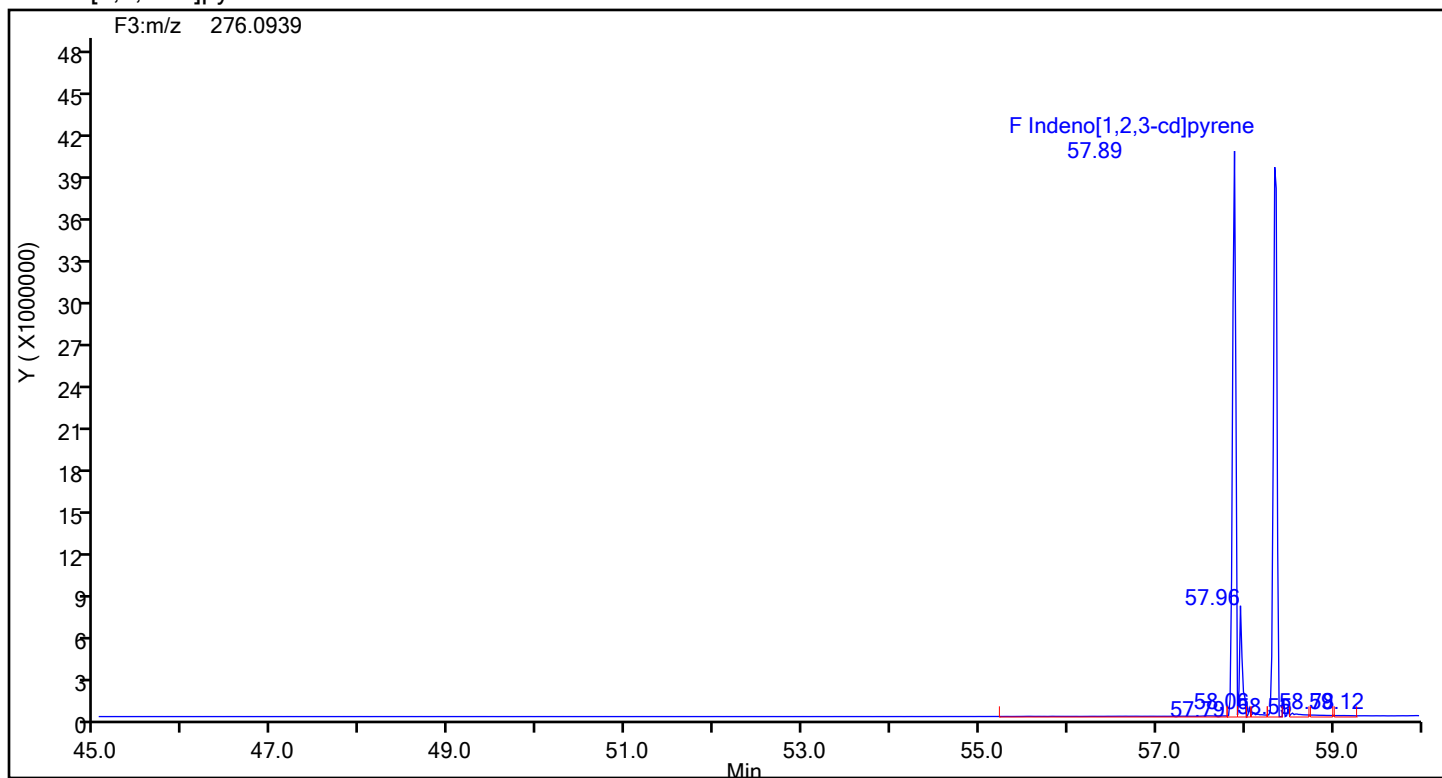
## Perylene Standards



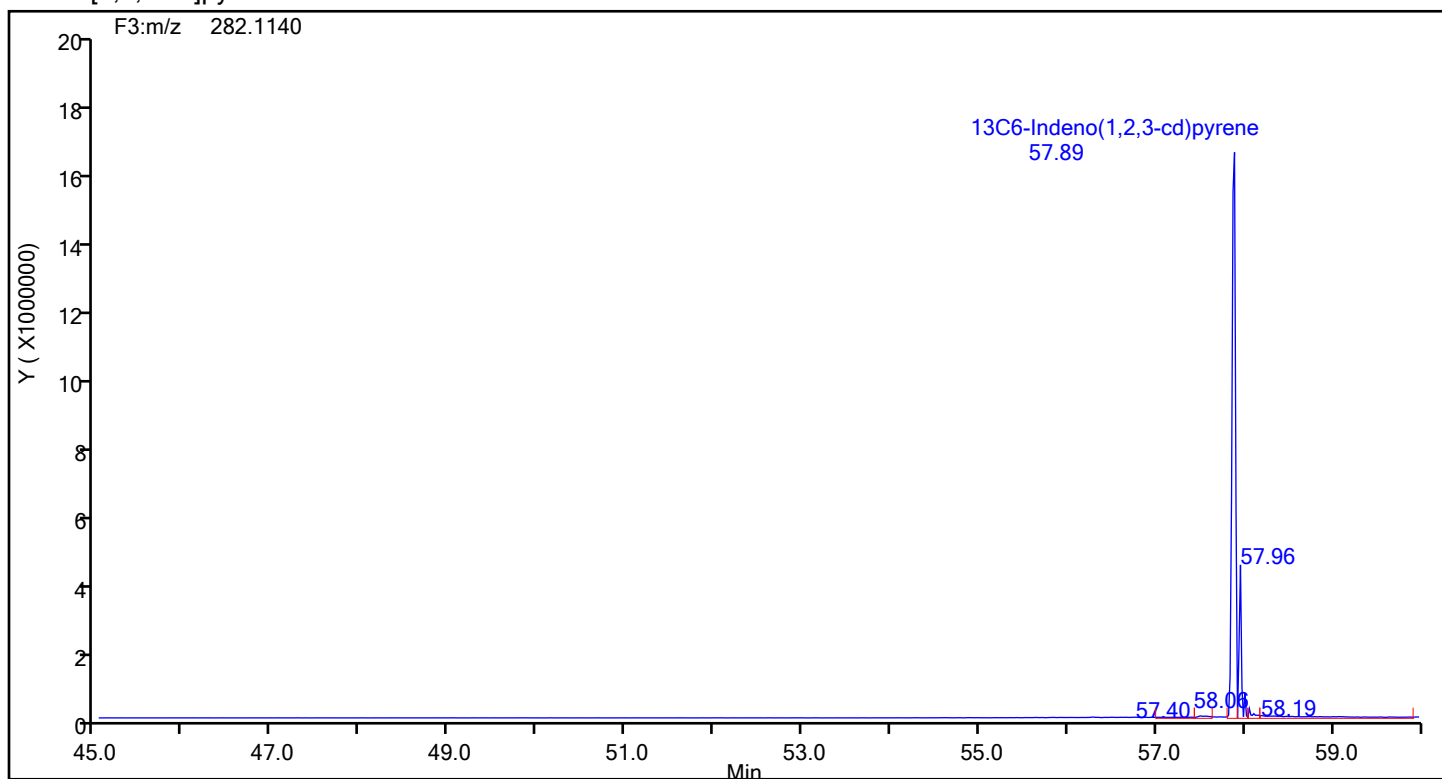
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\d3240716c4a.d  
Injection Date: 16-Jul-2024 23:22:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88831 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene

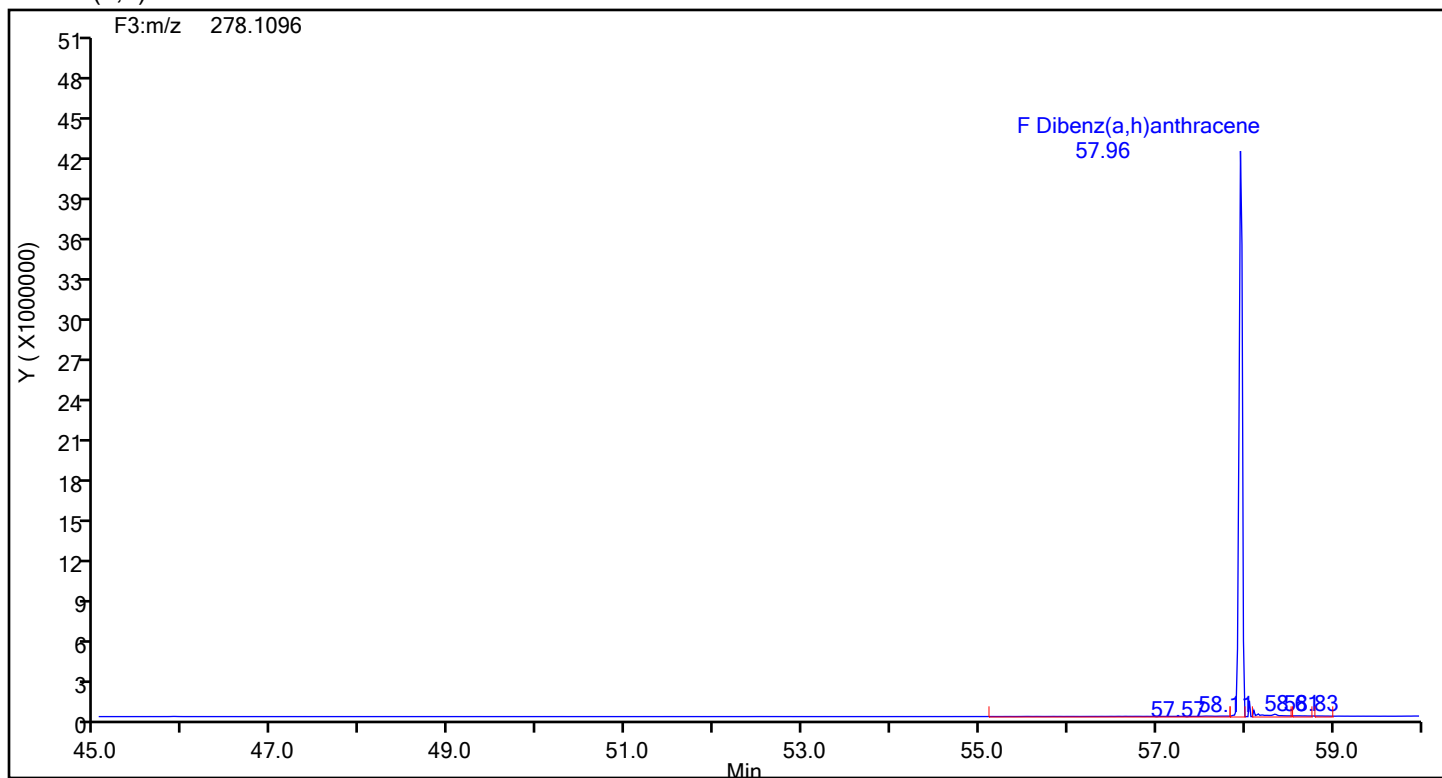


## Indeno[1,2,3-cd]pyrene Standards

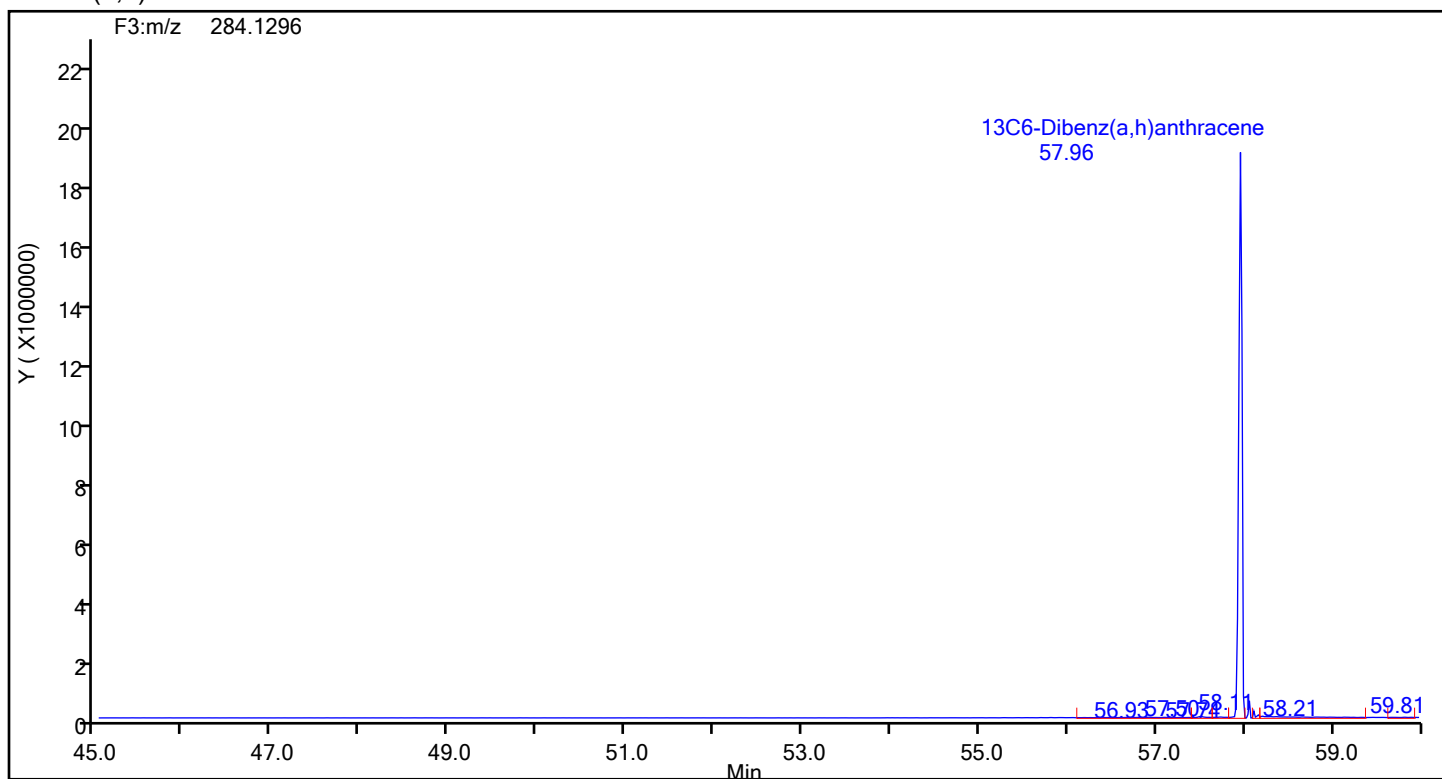


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\d3240716c4a.d  
Injection Date: 16-Jul-2024 23:22:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88831 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Dibenz(a,h)anthracene



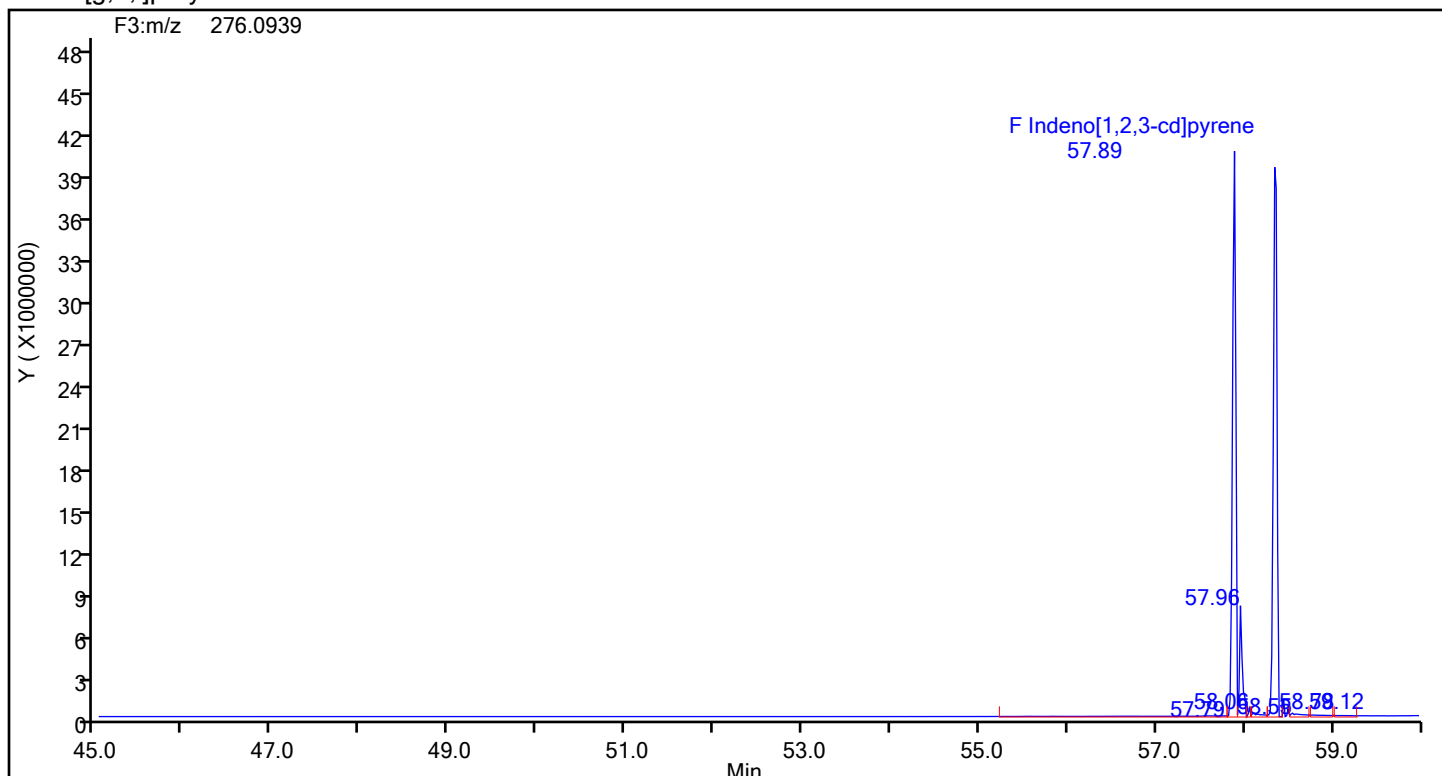
## Dibenz(a,h)anthracene Standards



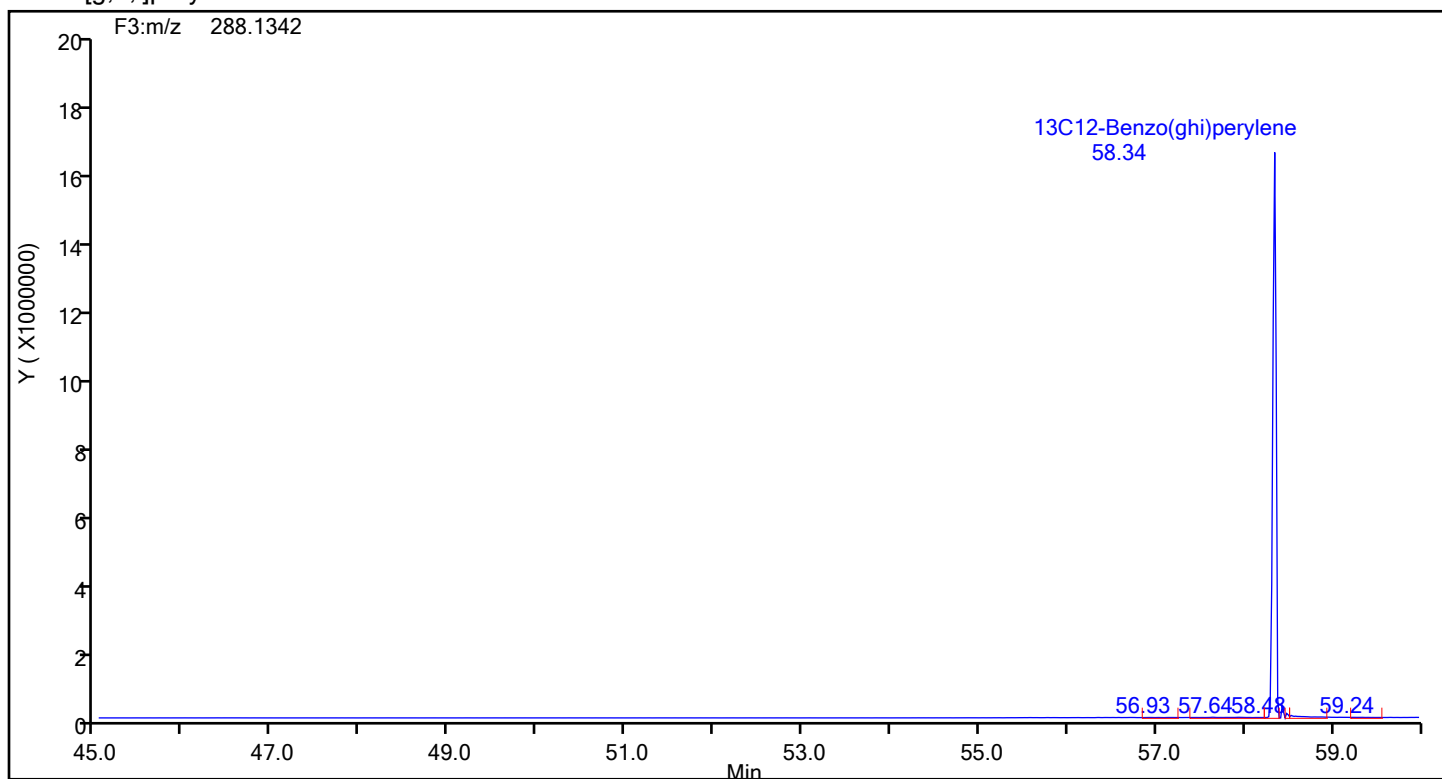
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240716-33530.b\d3240716c4a.d  
Injection Date: 16-Jul-2024 23:22:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88831 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



FORM VII  
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCV 140-88872/1 Calibration Date: 07/17/2024 12:02

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240717c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.259		195	200	-2.4	25.0
2-Methylnaphthalene	AveID	1.279	1.249		195	200	-2.3	25.0
Acenaphthylene	AveID	2.366	2.300		194	200	-2.8	25.0
Acenaphthene	AveID	1.270	1.175		185	200	-7.4	25.0
Fluorene	AveID	1.253	1.256		201	200	0.2	25.0
Phenanthrene	AveID	1.104	1.139		206	200	3.1	25.0
Anthracene	AveID	1.359	1.412		208	200	3.9	25.0
Fluoranthene	AveID	1.151	1.164		202	200	1.1	25.0
Pyrene	AveID	1.065	1.047		197	200	-1.7	25.0
Benzo[a]anthracene	AveID	0.9739	1.018		209	200	4.5	25.0
Chrysene	AveID	0.9815	1.018		207	200	3.7	25.0
Benzo[b]fluoranthene	AveID	1.125	1.127		200	200	0.2	25.0
Benzo[k]fluoranthene	AveID	1.127	1.071		190	200	-5.0	25.0
Benzo[e]pyrene	AveID	1.001	0.9864		197	200	-1.5	25.0
Benzo[a]pyrene	AveID	1.113	1.112		200	200	-0.1	25.0
Perylene	AveID	1.431	1.563		219	200	9.2	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.184		211	200	5.3	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.188		210	200	5.0	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.362		212	200	6.1	25.0
13C6-Naphthalene	Ave	3.375	3.283		97.3	100	-2.7	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.539		96.0	100	-4.0	30.0
13C6-Acenaphthylene	Ave	1.652	1.658		100	100	0.4	30.0
13C6-Acenaphthene	Ave	0.9792	0.9371		95.7	100	-4.3	30.0
13C6-Fluorene	Ave	0.8898	0.9279		104	100	4.3	30.0
13C6-Phenanthrene	Ave	0.5724	0.4951		86.5	100	-13.5	30.0
13C6-Anthracene	Ave	0.4523	0.3898		86.2	100	-13.8	30.0
13C6-Fluoranthrene	Ave	1.199	1.232		103	100	2.7	30.0
13C3-Pyrene	Ave	1.351	1.367		101	100	1.2	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.460		96.1	100	-3.9	30.0
13C6-Chrysene	Ave	1.629	1.409		86.5	100	-13.5	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.588		109	100	8.6	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.732		98.9	100	-1.1	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.669		102	100	2.0	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.705		110	100	9.9	30.0
Perylene-d12	Ave	1.192	1.340		113	100	12.5	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.520		149	100	48.7*	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.478		140	100	40.0*	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.249		98.0	100	-2.0	30.0
Anthracene-d10	Ave	0.4257	0.3795		89.2	100	-10.9	25.0
13C6-Benzo(c)fluorene	Ave	0.5136	0.5672		110	100	10.4	25.0
13C12-Benzo(j)fluoranthene	Ave	1.356	1.331		98.2	100	-1.8	25.0

# Resolution Check Report ( DFS SN: 3439 )

Date: 17 Jul 2024 11:51  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

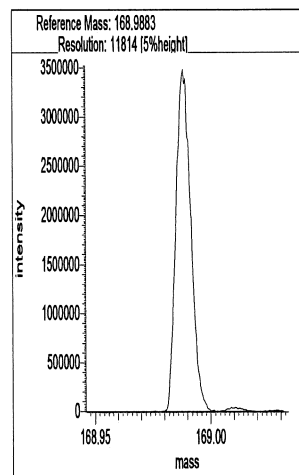
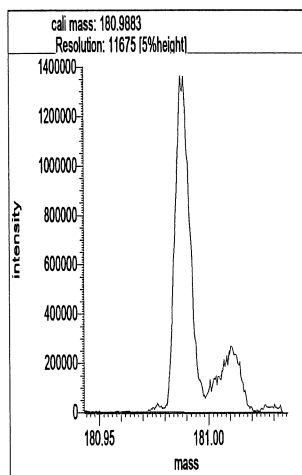
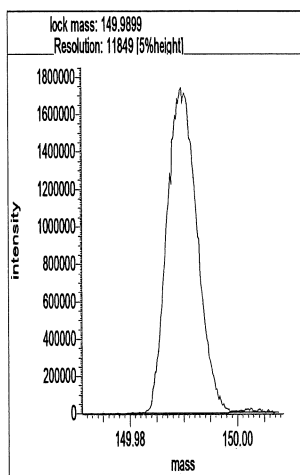
-d3240717r2a

## Segment 1

Lock mass 149.9899 [m/z] Resolution: 11849 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 11675 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 11814 [5%height]

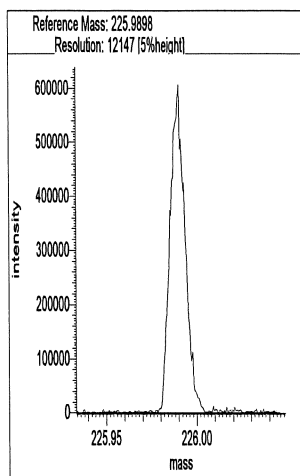
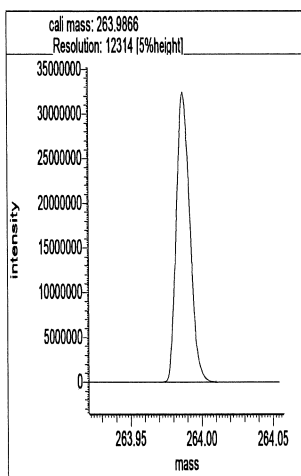
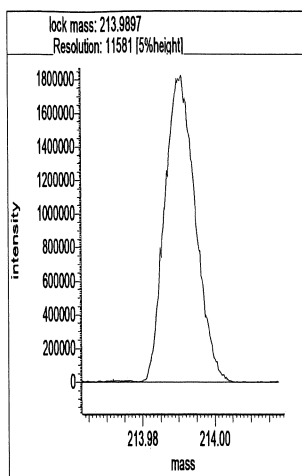


## Segment 2

Lock mass 213.9897 [m/z] Resolution: 11581 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 12314 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 12147 [5%height]

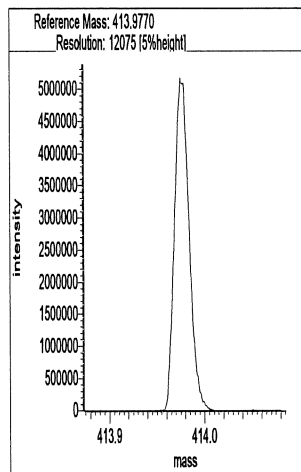
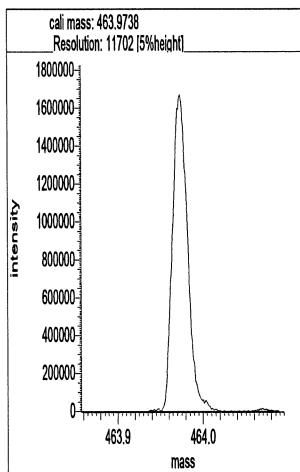
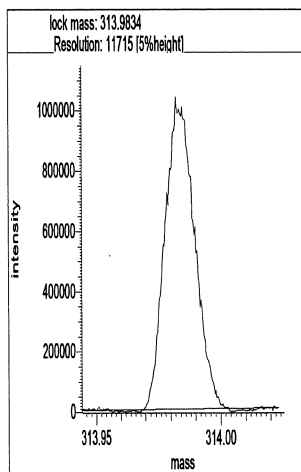


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11715 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 11702 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 12075 [5%height]

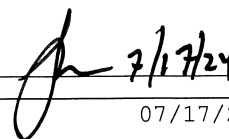




## Reports

11:59:10: Peak matching procedure started  
11:59:10:  
11:59:11: Reference mass: 263.98656  
11:59:11: Sample mass: 414.0  
11:59:12:  
11:59:12: Finding reference mass  
11:59:14: Finding sample mass  
11:59:14:  
11:59:20: [1] 413.9718 amu, mean: 413.9718 SD: 0.15 mmu or: 0.35 ppm  
11:59:23: [2] 413.9720 amu, mean: 413.9719 SD: 0.11 mmu or: 0.25 ppm  
11:59:26: [3] 413.9719 amu, mean: 413.9719 SD: 0.16 mmu or: 0.38 ppm  
11:59:29: [4] 413.9716 amu, mean: 413.9718 SD: 0.14 mmu or: 0.33 ppm  
11:59:32: [5] 413.9718 amu, mean: 413.9718 SD: 0.15 mmu or: 0.36 ppm  
11:59:35: [6] 413.9716 amu, mean: 413.9718 SD: 0.20 mmu or: 0.49 ppm  
11:59:38: [7] 413.9714 amu, mean: 413.9717 SD: 0.27 mmu or: 0.66 ppm  
11:59:42: [8] 413.9712 amu, mean: 413.9717 SD: 0.41 mmu or: 0.99 ppm  
11:59:45: [9] 413.9707 amu, mean: 413.9716 SD: 0.48 mmu or: 1.16 ppm  
11:59:48: [10] 413.9707 amu, mean: 413.9715 SD: 0.53 mmu or: 1.28 ppm  
11:59:51: [11] 413.9706 amu, mean: 413.9714  
11:59:52:  
11:59:52: Stop requested. Please wait for procedure to finish.  
11:59:52:  
11:59:54:  
11:59:55: Peakmatching stopped

Signature

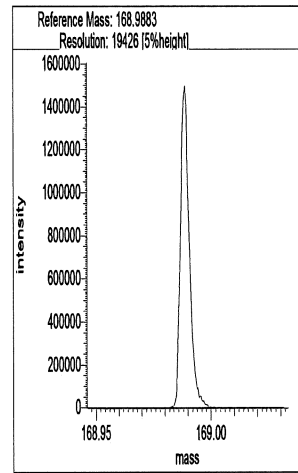
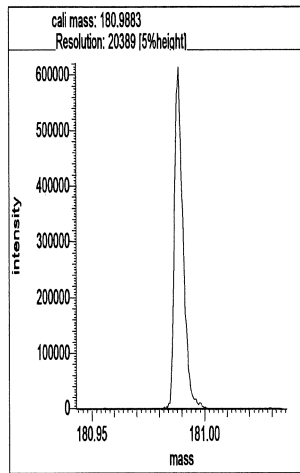
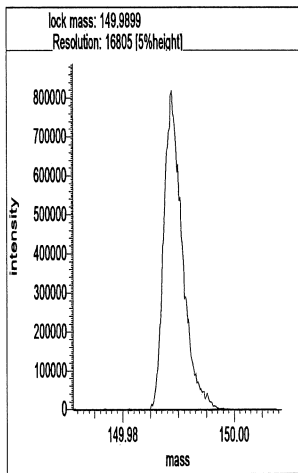
Handwritten signature in black ink, appearing to be 'Jh 7/17/24'.

# Resolution Check Report ( DFS SN: 3439 )

Date: 17 Jul 2024 22:31  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

## Segment 1

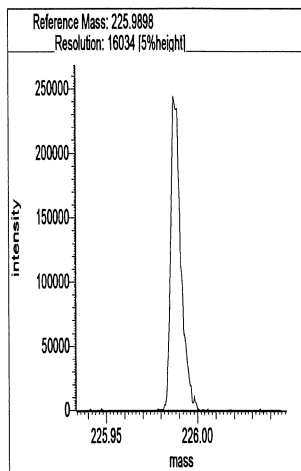
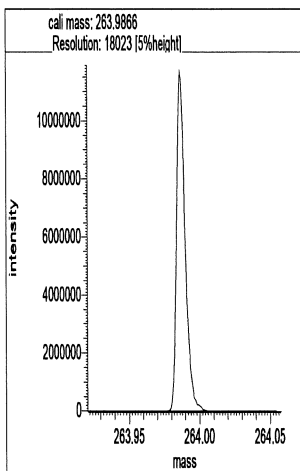
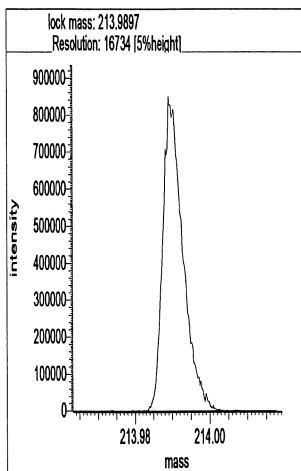
Lock mass 149.9899 [m/z] Resolution: 16805 [5%height]  
Cali. mass 180.9883 [m/z] Resolution: 20389 [5%height]  
Ref. mass 168.9883 [m/z] Resolution: 19426 [5%height]



## Segment 2

Lock mass 213.9897 [m/z] Resolution: 16734 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 18023 [5%height]  
Ref. mass 225.9898 [m/z] Resolution: 16034 [5%height]

d3240717r4

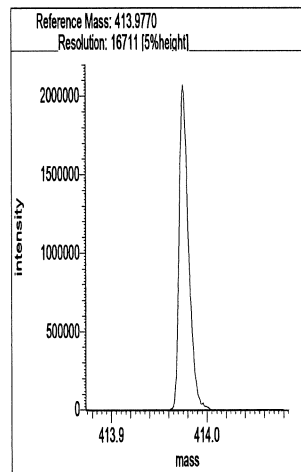
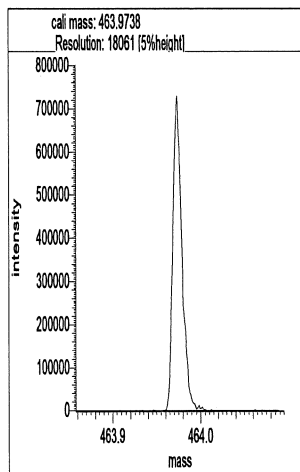
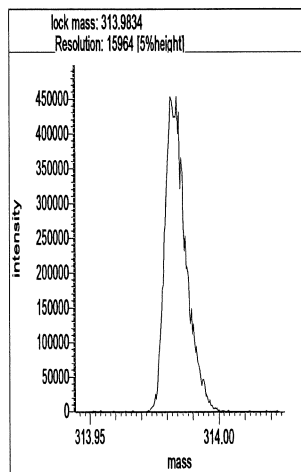


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 15964 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 18061 [5%height]


Ref. mass 413.9770 [m/z] Resolution: 16711 [5%height]



## Reports

22:38:10: Peak matching procedure started  
22:38:11:  
22:38:11: Reference mass: 263.98656  
22:38:12: Sample mass: 414.0  
22:38:12:  
22:38:13: Finding reference mass  
22:38:14: Finding sample mass  
22:38:14:  
22:38:20: [1] 413.9718 amu, mean: 413.9718  
22:38:23: [2] 413.9722 amu, mean: 413.9720 SD: 0.28 mmu or: 0.67 ppm  
22:38:26: [3] 413.9716 amu, mean: 413.9719 SD: 0.29 mmu or: 0.69 ppm  
22:38:29: [4] 413.9717 amu, mean: 413.9718 SD: 0.24 mmu or: 0.59 ppm  
22:38:32: [5] 413.9710 amu, mean: 413.9717 SD: 0.44 mmu or: 1.05 ppm  
22:38:36: [6] 413.9710 amu, mean: 413.9715 SD: 0.48 mmu or: 1.16 ppm  
22:38:39: [7] 413.9712 amu, mean: 413.9715 SD: 0.46 mmu or: 1.11 ppm  
22:38:42: [8] 413.9712 amu, mean: 413.9715 SD: 0.44 mmu or: 1.06 ppm  
22:38:45: [9] 413.9714 amu, mean: 413.9715 SD: 0.41 mmu or: 0.99 ppm  
22:38:48: [10] 413.9714 amu, mean: 413.9714 SD: 0.39 mmu or: 0.94 ppm  
22:38:51: [11] 413.9714 amu, mean: 413.9714 SD: 0.37 mmu or: 0.89 ppm  
22:38:52:  
22:38:52: Stop requested. Please wait for procedure to finish.  
22:38:52:  
22:38:54:  
22:38:55: Peakmatching stopped

Signature

 7/17/24

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\d3240717c1a.d  
Lims ID: CCV  
Client ID:  
Sample Type: CCV  
Inject. Date: 17-Jul-2024 12:02:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 17-Jul-2024 14:52:31 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1616

First Level Reviewer: TT6I

Date: 17-Jul-2024 14:52:31

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:25	45723816		3.3746	97.3	97.3	0.0262	0.0262	97.29	
Naphthalene	11:26	115116735		1.2893	195.3	195.3	0.0519	0.0519	97.64	
D 13C6-2-Methylnaphthalene	13:47	21439276		1.6031	96.0	96.0	0.0158	0.0158	96.03	
2-Methylnaphthalene	13:48	53558761		1.2786	195.4	195.4	0.0180	0.0180	97.69	
D 13C6-Acenaphthylene	16:39	23093126		1.6520	100.4	100.4	0.0162	0.0162	100	
Acenaphthylene	16:39	60037269		2.3661	194.4	194.4	0.0315	0.0315	97.21	
* Acenaphthene-d10	17:14	13927339		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:21	13050644		0.9792	95.7	95.7	0.0278	0.0278	95.70	
Acenaphthene	17:21	30678131		1.2697	185.1	185.1	0.0436	0.0436	92.57	
Fluorene	19:38	32464334		1.2532	200.5	200.5	0.0347	0.0347	100	
D 13C6-Fluorene	19:38	12922509		0.8898	104.3	104.3	0.0250	0.0250	104	
D 13C6-Phenanthrene	24:58	21167507		0.5724	86.5	86.5	0.0249	0.0249	86.49	
Phenanthrene	24:59	48221313		1.1044	206.3	206.3	0.0389	0.0389	103	
\$ Anthracin-d10	25:12	16225663		0.4257	89.1	89.1	0.0146	0.0146	89.15	
D 13C6-Anthracene	25:19	16666317		0.4523	86.2	86.2	0.0315	0.0315	86.18	
Anthracene	25:19	47054418		1.3586	207.8	207.8	0.0405	0.0405	104	
D 13C6-Fluoranthrene	33:42	52673394		1.1994	102.7	102.7	0.0207	0.0207	103	
Fluoranthene	33:43	122644842		1.1513	202.2	202.2	0.0206	0.0206	101	
* Pyrene-d10	35:15	42755306		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:23	58466570		1.3512	101.2	101.2	0.0229	0.0229	101	
Pyrene	35:23	122426173		1.0652	196.6	196.6	0.0208	0.0208	98.29	
\$ 13C6-Benzo(c)fluorene	39:05	24252494		0.5136	110.4	110.4	0.0231	0.0231	110	
D 13C6-Benzo(a)anthracene	45:54	55653635		1.5189	96.1	96.1	0.0164	0.0164	96.10	
Benzo[a]anthracene	45:54	113275143		0.9739	209.0	209.0	0.1486	0.1486	104	
D 13C6-Chrysene	46:10	53730054		1.6287	86.5	86.5	0.0153	0.0153	86.52	
Chrysene	46:10	109372915		0.9815	207.4	207.4	0.1537	0.1537	104	
D 13C6-Benzo(b)fluoranthene	54:32	60562676		1.4621	108.6	108.6	0.009208	0.009208	109	
Benzo[b]fluoranthene	54:32	136484780		1.1249	200.3	200.3	0.007408	0.007408	100	
\$ 13C12-Benzo(j)fluoranthene	54:34	50742190		1.3558	98.2	98.2	0.0106	0.0106	98.16	
D 13C6-Benzo(k)fluoranthene	54:39	66024009		1.7507	98.9	98.9	0.007690	0.007690	98.91	
Benzo[k]fluoranthene	54:39	141424849		1.1271	190.0	190.0	0.005934	0.005934	95.02	
* Benzo(e)pyrene-d12	55:24	38127351		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:28	63640352		1.6368	102.0	102.0	0.0106	0.0106	102	
Benzo[e]pyrene	55:29	125554921		1.0013	197.0	197.0	0.006733	0.006733	98.52	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:37	65006288		1.5508	109.9	109.9	0.0112	0.0112	110	
Benzo[a]pyrene	55:37	144566997		1.1130	199.8	199.8	0.005251	0.005251	99.90	
D Perylene-d12	55:47	51097638		1.1917	112.5	112.5	0.0108	0.0108	112	
Perylene	55:51	159709900		1.4307	218.5	218.5	0.005077	0.005077	109	
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	57940424		1.0218	148.7	148.7	0.0174	0.0174	149	
Indeno[1,2,3-cd]pyrene	57:56	137206450		1.1249	210.5	210.5	0.006815	0.006815	105	
D 13C6-Dibenz(a,h)anthracene	58:00	56345579		1.0553	140.0	140.0	0.0163	0.0163	140	
Dibenz(a,h)anthracene	58:00	133832325		1.1314	209.9	209.9	0.005209	0.005209	105	
D 13C12-Benzo(ghi)perylene	58:23	47631024		1.2749	98.0	98.0	0.008742	0.008742	97.99	
Benzo[g,h,i]perylene	58:23	129727166		1.2838	212.2	212.2	0.006849	0.006849	106	

## QC Flag Legend

Processing Flags

## Reagents:

61HRPAHCS5a\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\d3240717c1a.d  
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Client ID:  
Sample Type: CCV  
Inject. Date: 17-Jul-2024 12:02:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 17-Jul-2024 14:52:31 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1616

First Level Reviewer: TT61

Date: 17-Jul-2024 14:52:31

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:25	11:25	0	0.663	45723816	15811964	1792	4480	8824		
Naphthalene											
128.0626	11:26	11:26	0	1.001	115116735	40939838	4235	10587	9667		
13C6-2-Methylnaphthalene											
148.0984	13:47	13:47	0	0.800	21439276	10392932	515	1287	20180		
2-Methylnaphthalene											
142.0783	13:48	13:48	0	1.001	53558761	25393847	959	2397	26480		
13C6-Acenaphthylene											
158.0828	16:39	16:39	0	0.967	23093126	8452159	544	1360	15537		E
Acenaphthylene											
152.0626	16:39	16:39	0	1.000	60037269	22752945	1374	3435	16560		
Acenaphthene-d10											
164.1404	17:14	17:14	0		13927339	5073136	570	1425	8900		
13C6-Acenaphthene											
160.0984	17:21	17:21	0	1.007	13050644	4613141	552	1380	8357		
Acenaphthene											
154.0783	17:21	17:21	0	1.001	30678131	11135222	1022	2555	10896		
Fluorene											
166.0783	19:38	19:38	0	1.000	32464334	10371022	697	1742	14880		
13C6-Fluorene											
172.0984	19:38	19:38	0	1.139	12922509	4009510	452	1130	8871		E
13C6-Phenanthrene											
184.0984	24:58	24:58	0	0.708	21167507	5294266	478	1195	11076		
Phenanthrene											
178.0783	24:59	24:59	0	1.000	48221313	12027482	909	2272	13232		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:12	25:12	0	0.715	16225663	3974111	209	522	19015		
13C6-Anthracene											
184.0984	25:19	25:19	0	0.718	16666317	4128466	478	1195	8637		
Anthracene											
178.0783	25:19	25:19	0	1.000	47054418	11990874	909	2272	13191		
13C6-Fluoranthrene											
208.0984	33:42	33:42	0	0.956	52673394	11238084	835	2087	13459		E
Fluoranthene											
202.0783	33:43	33:43	0	1.000	122644842	25984319	1066	2665	24376		
Pyrene-d10											
212.1404	35:15	35:15	0		42755306	8387588	418	1045	20066		
13C3-Pyrene											
205.0883	35:23	35:23	0	1.004	58466570	12046508	1039	2597	11594		E
Pyrene											
202.0783	35:23	35:23	0	1.000	122426173	25802429	1066	2665	24205		
13C6-Benzo(c)fluorene											
222.1134	39:05	39:05	0	0.705	24252494	4645686	399	997	11643		
13C6-Benzo(a)anthracene											
234.1140	45:54	45:54	0	1.302	55653635	10806611	1301	3252	8306		
Benzo[a]anthracene											
228.0939	45:54	45:54	0	1.000	113275143	21902363	6254	15635	3502		
13C6-Chrysene											
234.1140	46:10	46:10	0	1.310	53730054	10365639	1301	3252	7967		
Chrysene											
228.0939	46:10	46:10	0	1.000	109372915	21167193	6254	15635	3385		
13C6-Benzo(b)fluoranthene											
258.1140	54:32	54:32	0	0.984	60562676	16763495	704	1760	23812		E
Benzo[b]fluoranthene											
252.0939	54:32	54:32	0	1.000	136484780	40430728	559	1397	72327		
13C12-Benzo(j)fluoranthene											
264.1336	54:34	54:34	0	0.985	50742190	14116462	755	1887	18697		
13C6-Benzo(k)fluoranthene											
258.1140	54:39	54:39	0	0.986	66024009	20888950	704	1760	29672		
Benzo[k]fluoranthene											
252.0939	54:39	54:39	0	1.000	141424849	43530432	559	1397	77872		
Benzo(e)pyrene-d12											
264.1692	55:24	55:24	0		38127351	13073735	676	1690	19340		
13C4-Benzo(e)pyrene											
256.1073	55:28	55:28	0	1.001	63640352	20721466	909	2272	22796		E
Benzo[e]pyrene											
252.0939	55:29	55:29	0	1.000	125554921	43771619	559	1397	78303		
13C4-Benzo(a)pyrene											
256.1073	55:37	55:37	0	1.004	65006288	23901952	909	2272	26295		E



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:37	55:37	0	1.000	144566997	54218240	559	1397	96991		
Perylene-d12											
264.1692	55:47	55:47	0	1.007	51097638	19232362	676	1690	28450		E
Perylene											
252.0939	55:51	55:51	0	1.001	159709900	59326976	559	1397	106131		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:55	57:55	0	1.045	57940424	20739446	928	2320	22349		E
Indeno[1,2,3-cd]pyrene											
276.0939	57:56	57:56	0	1.000	137206450	51620287	636	1590	81164		
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	58:00	0	1.047	56345579	21803045	898	2245	24280		E
Dibenz(a,h)anthracene											
278.1096	58:00	58:00	0	1.000	133832325	52349002	514	1285	101846		
13C12-Benzo(ghi)perylene											
288.1342	58:23	58:23	0	1.054	47631024	18084892	583	1457	31020		
Benzo[g,h,i]perylene											
276.0939	58:23	58:23	0	1.000	129727166	46920319	636	1590	73774		

### QC Flag Legend

Processing Flags

### Reagents:

61HRPAHCS5a\_00002

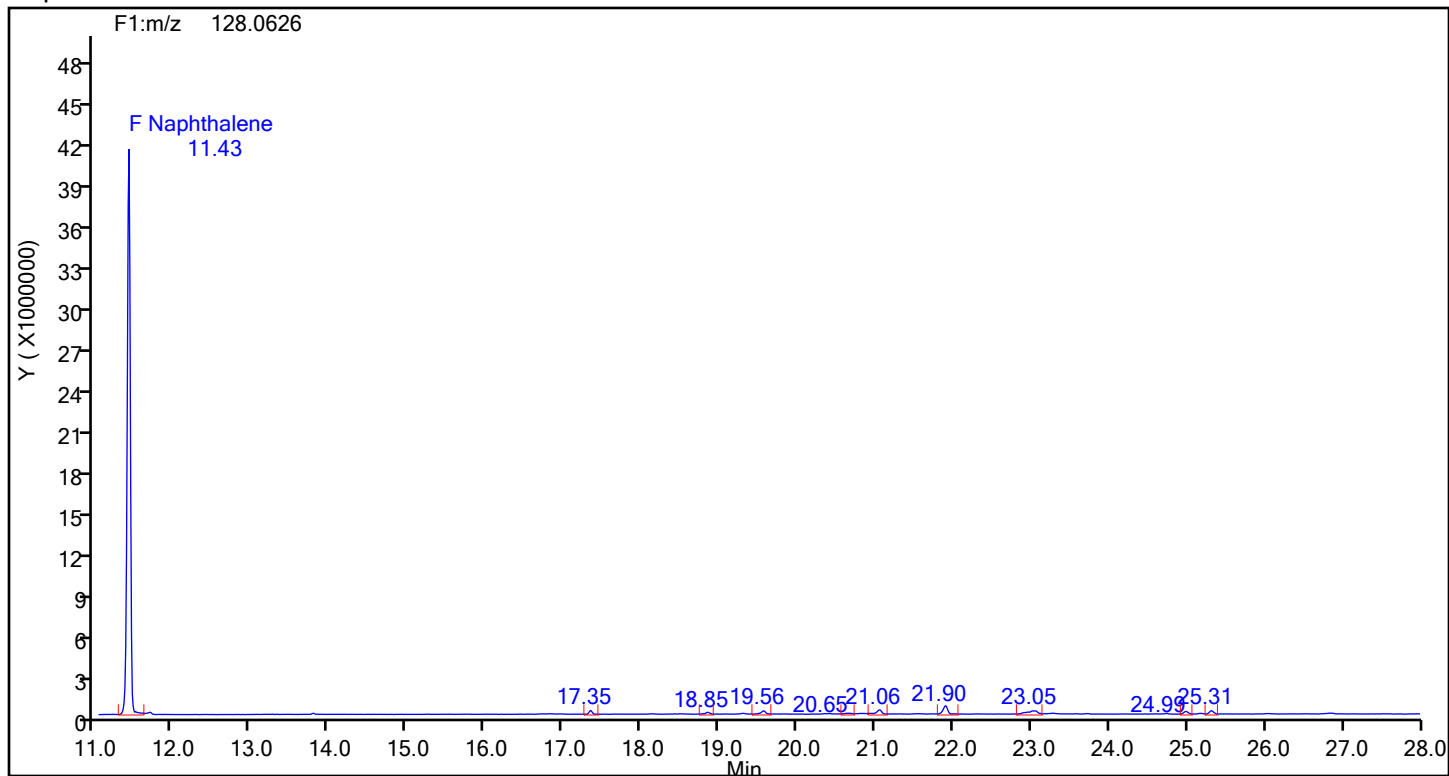
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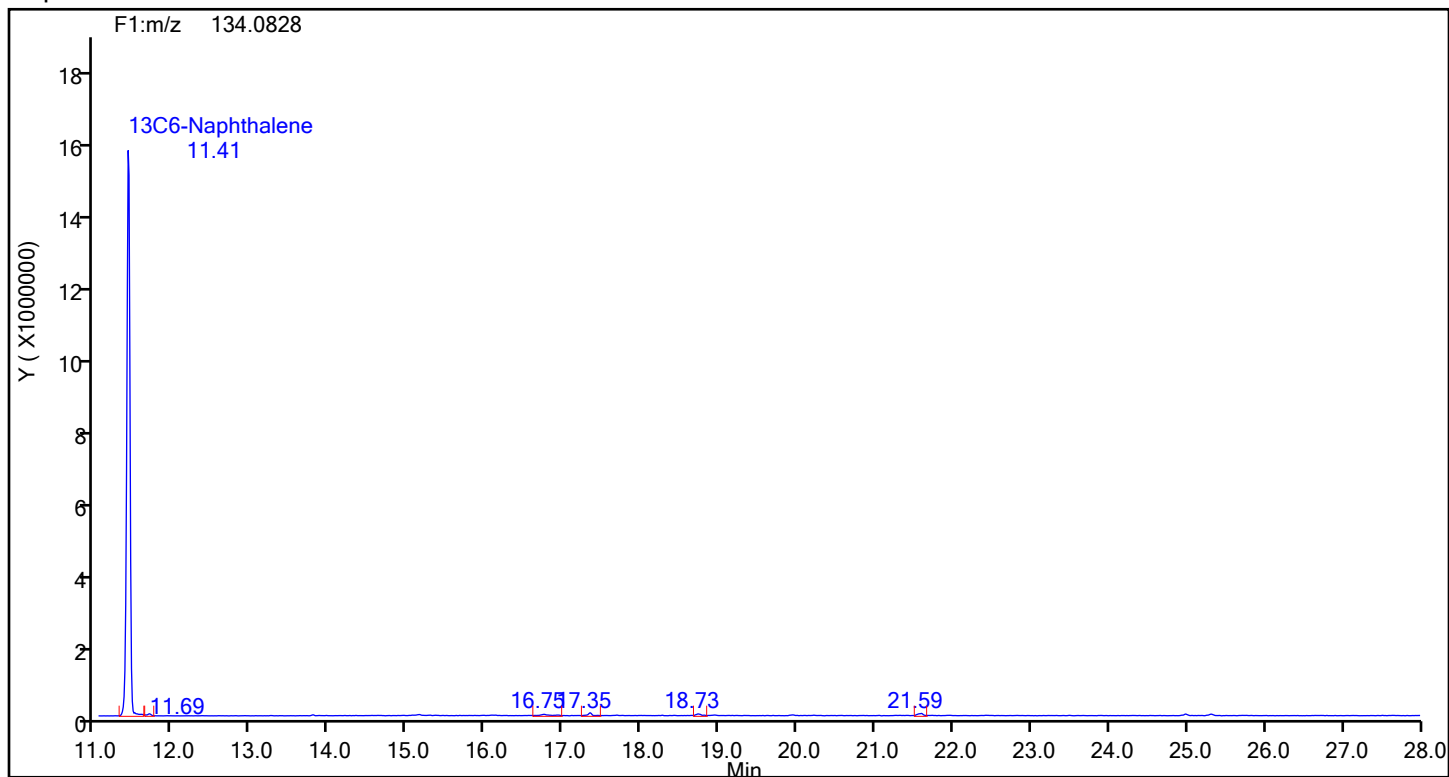
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



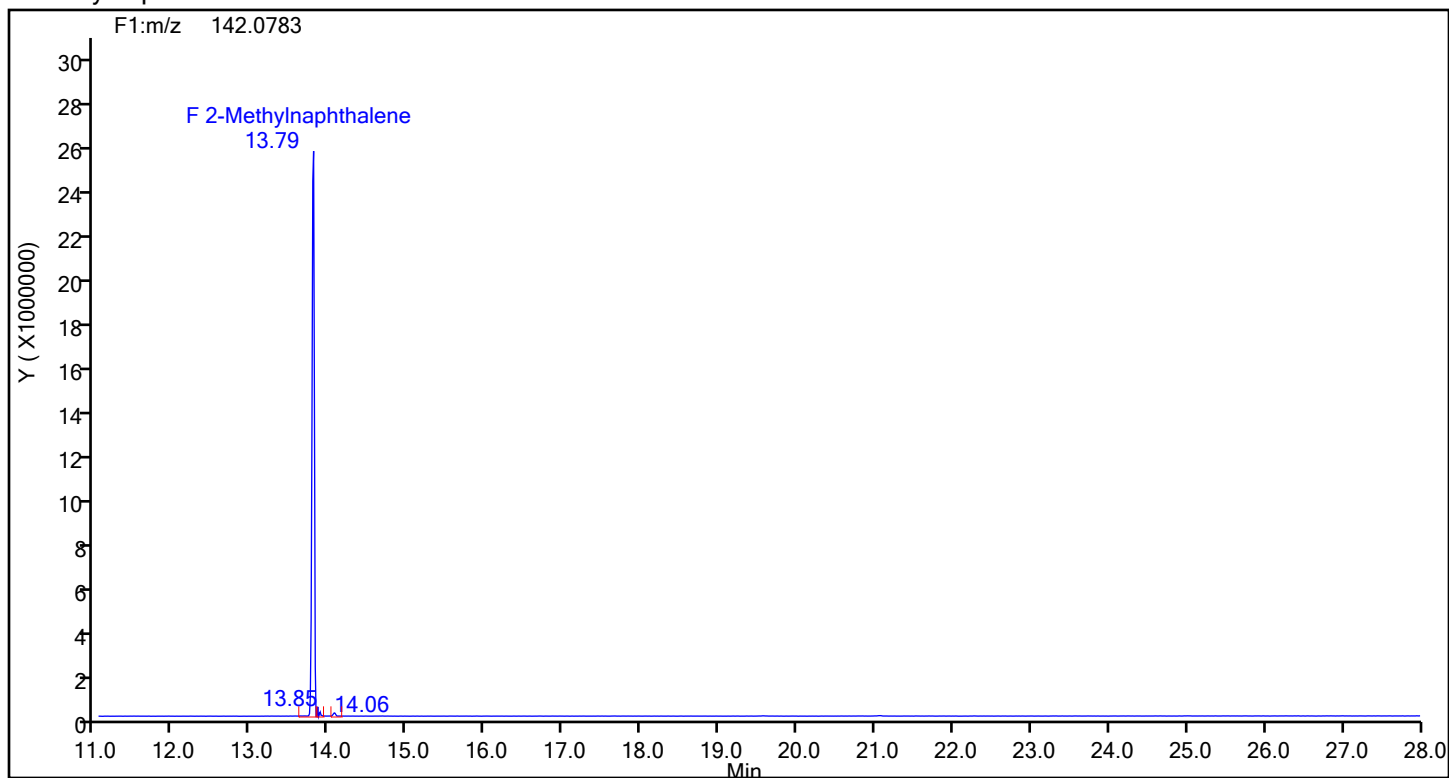
## Naphthalene Standards



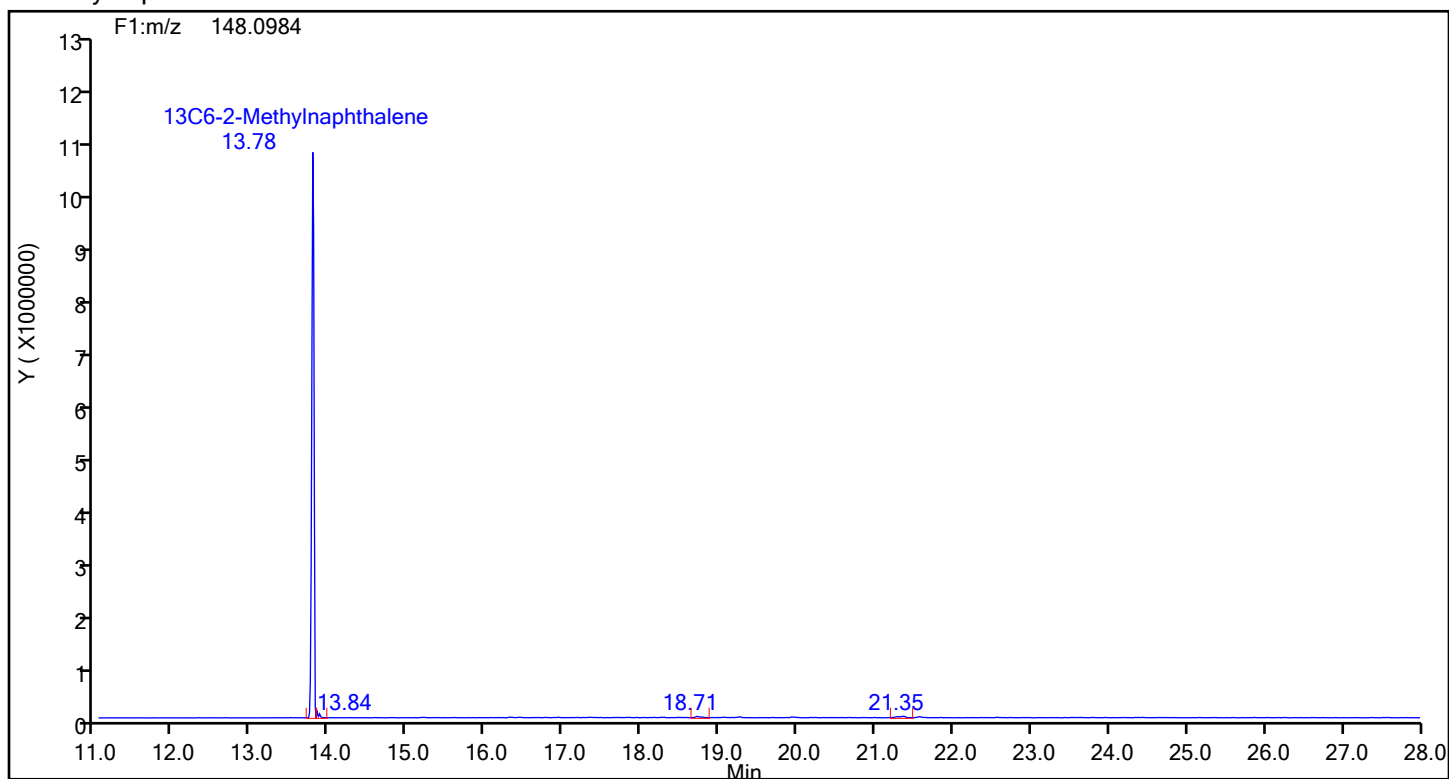
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



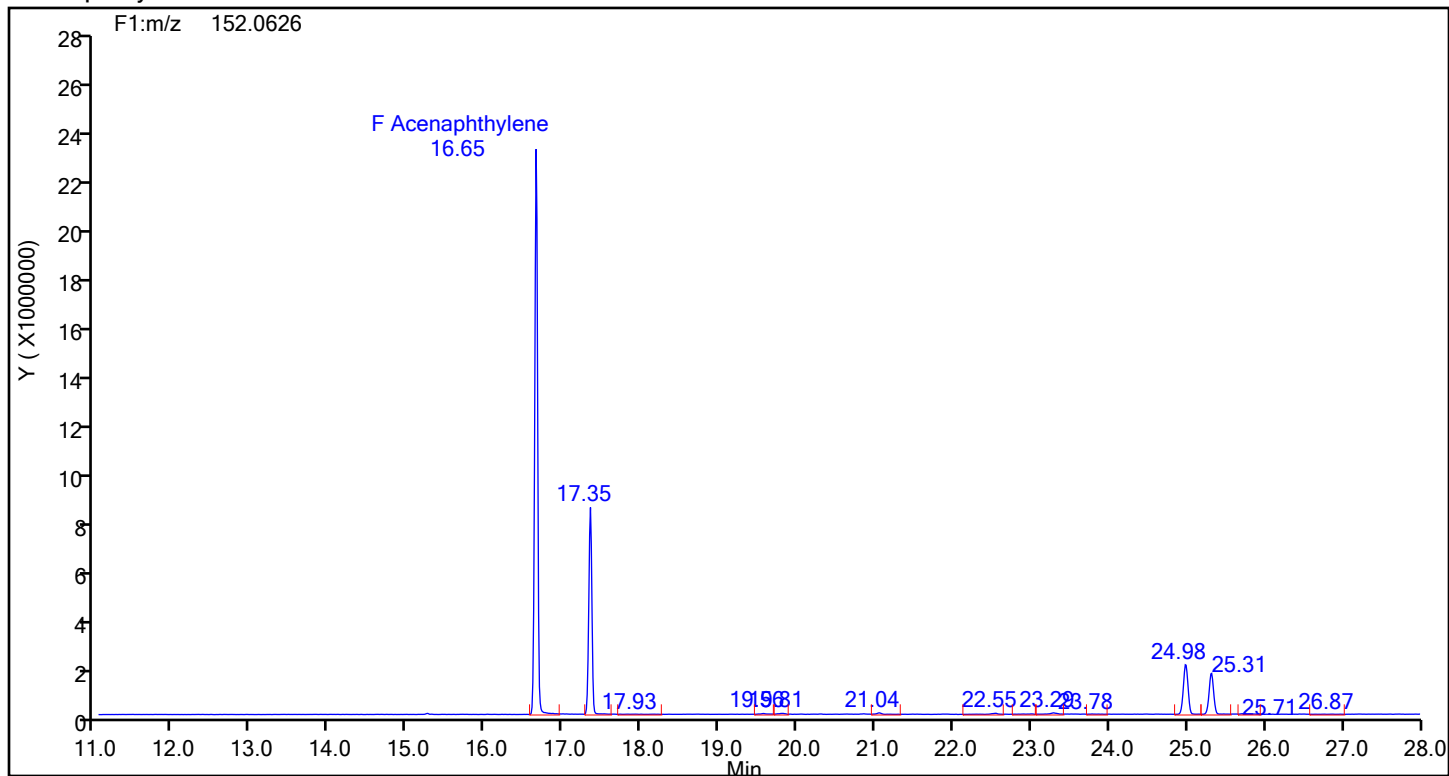
## 2-Methylnaphthalene Standards



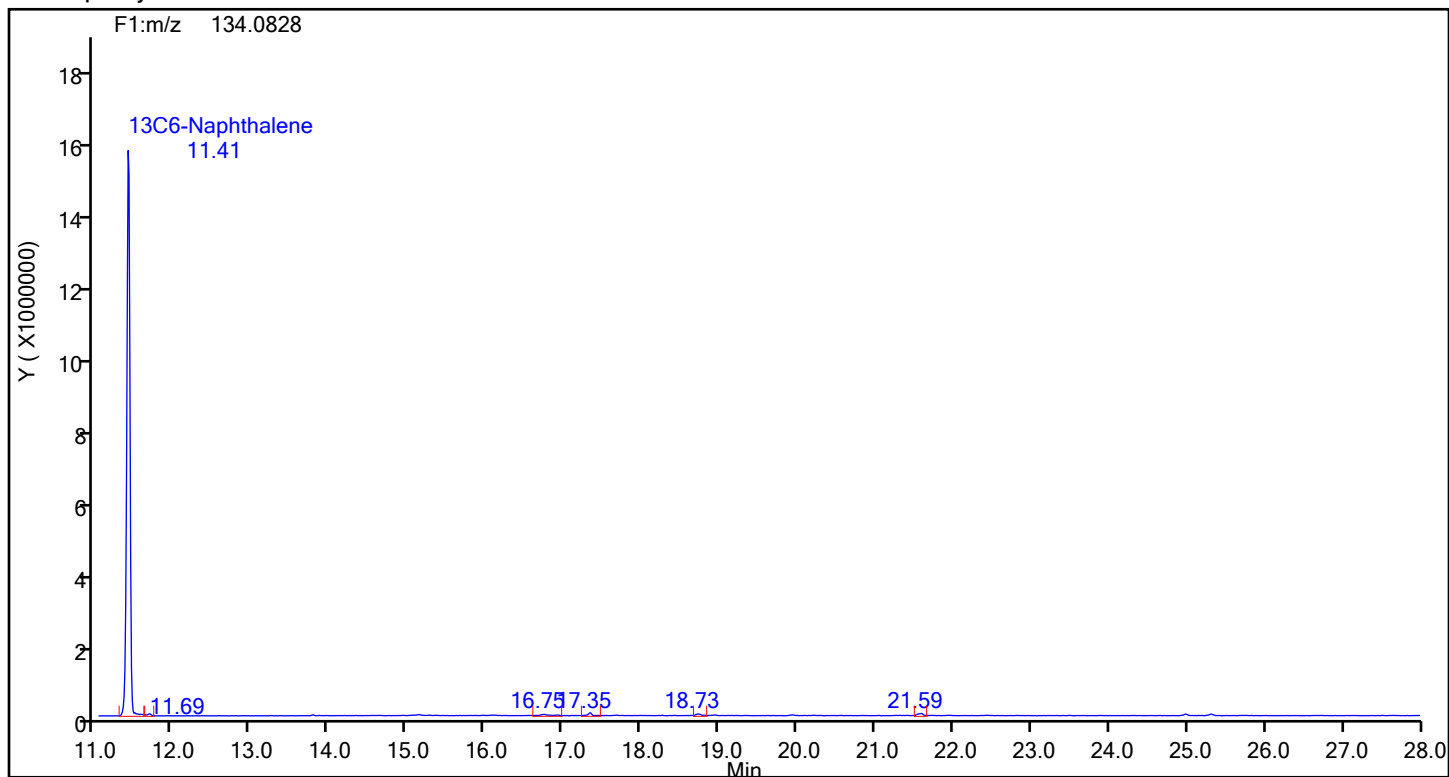
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene

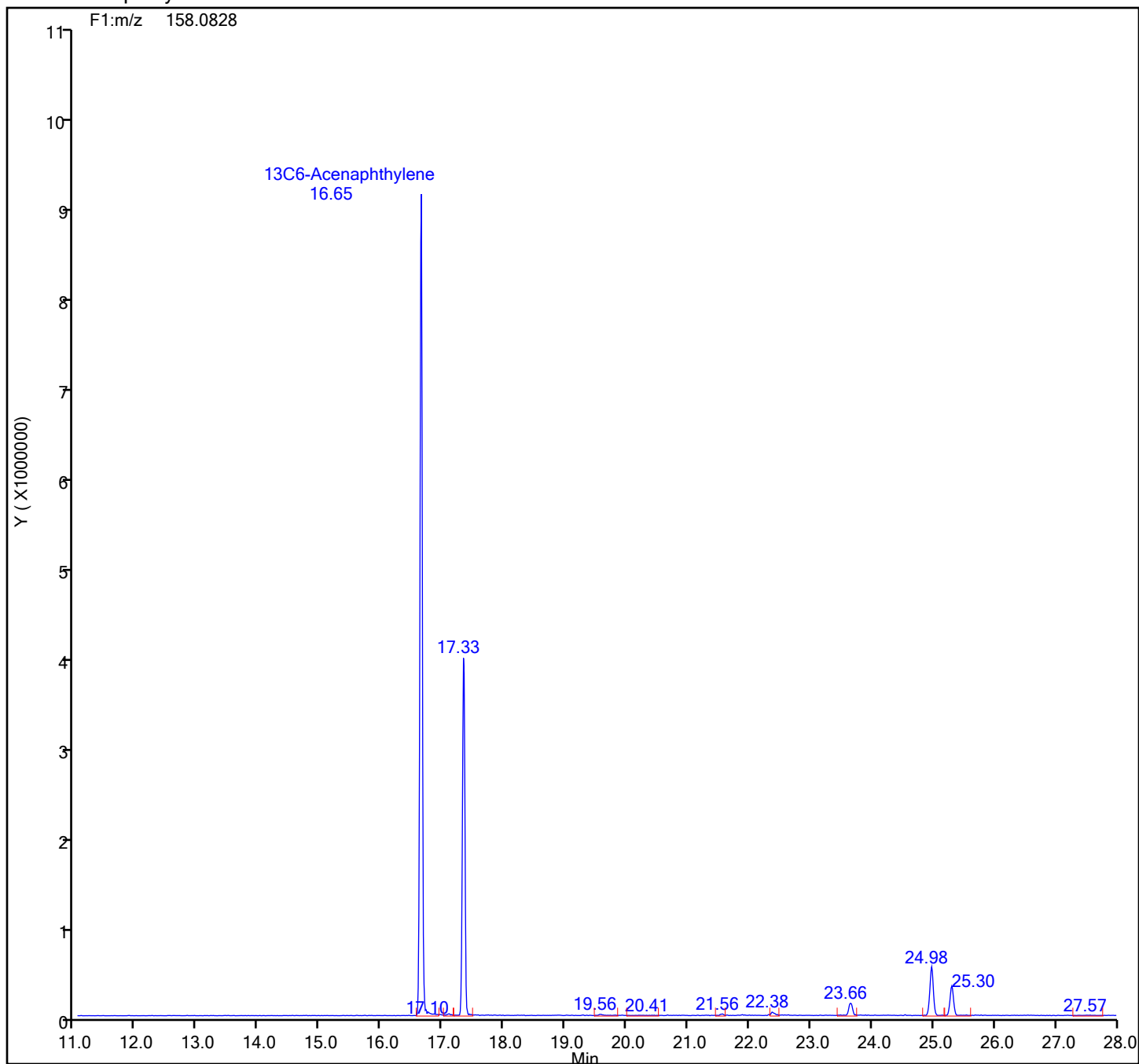


## Acenaphthylene Standards



## Eurofins Knoxville

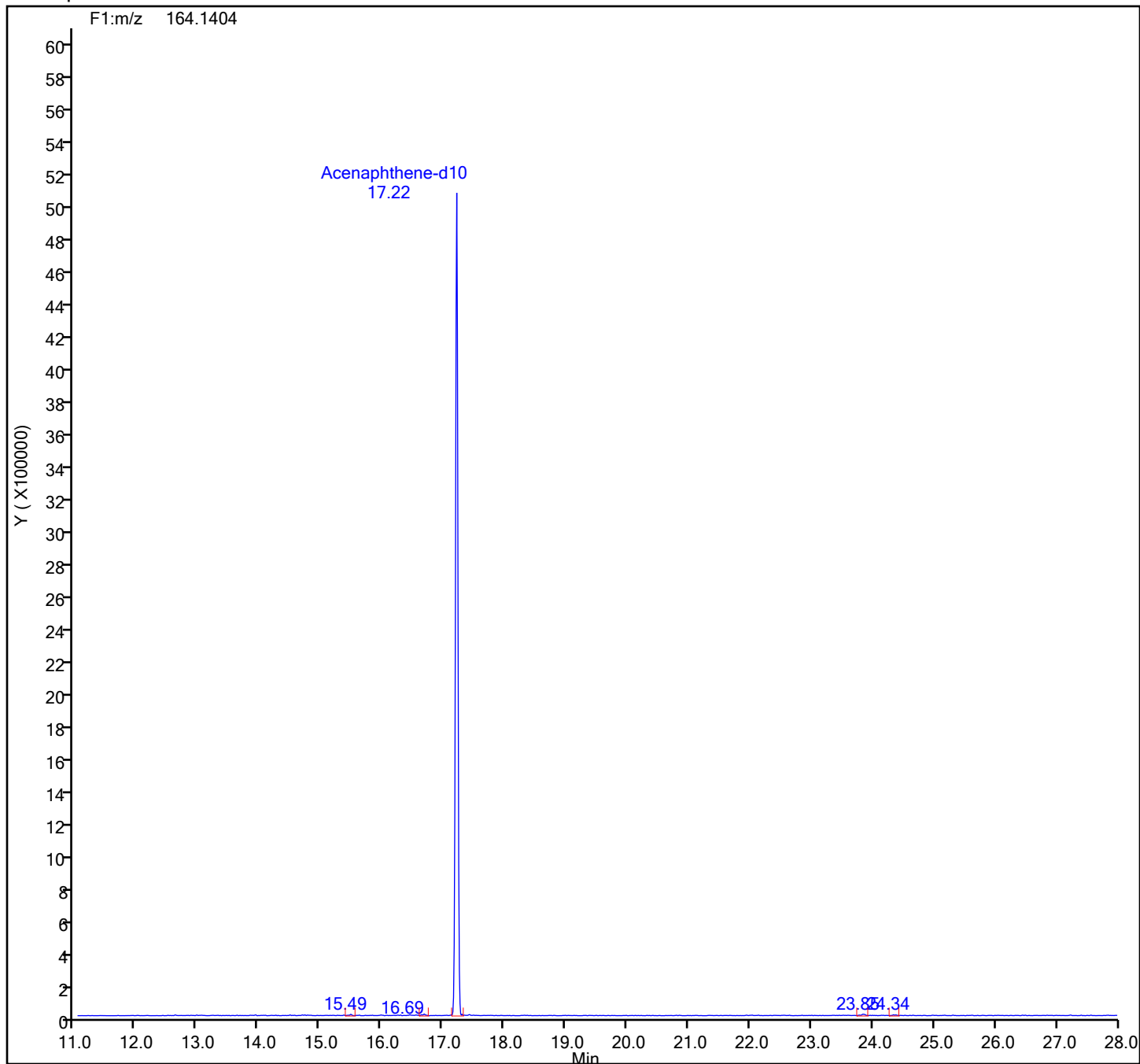
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13C6-Acenaphthylene Standards



## Eurofins Knoxville

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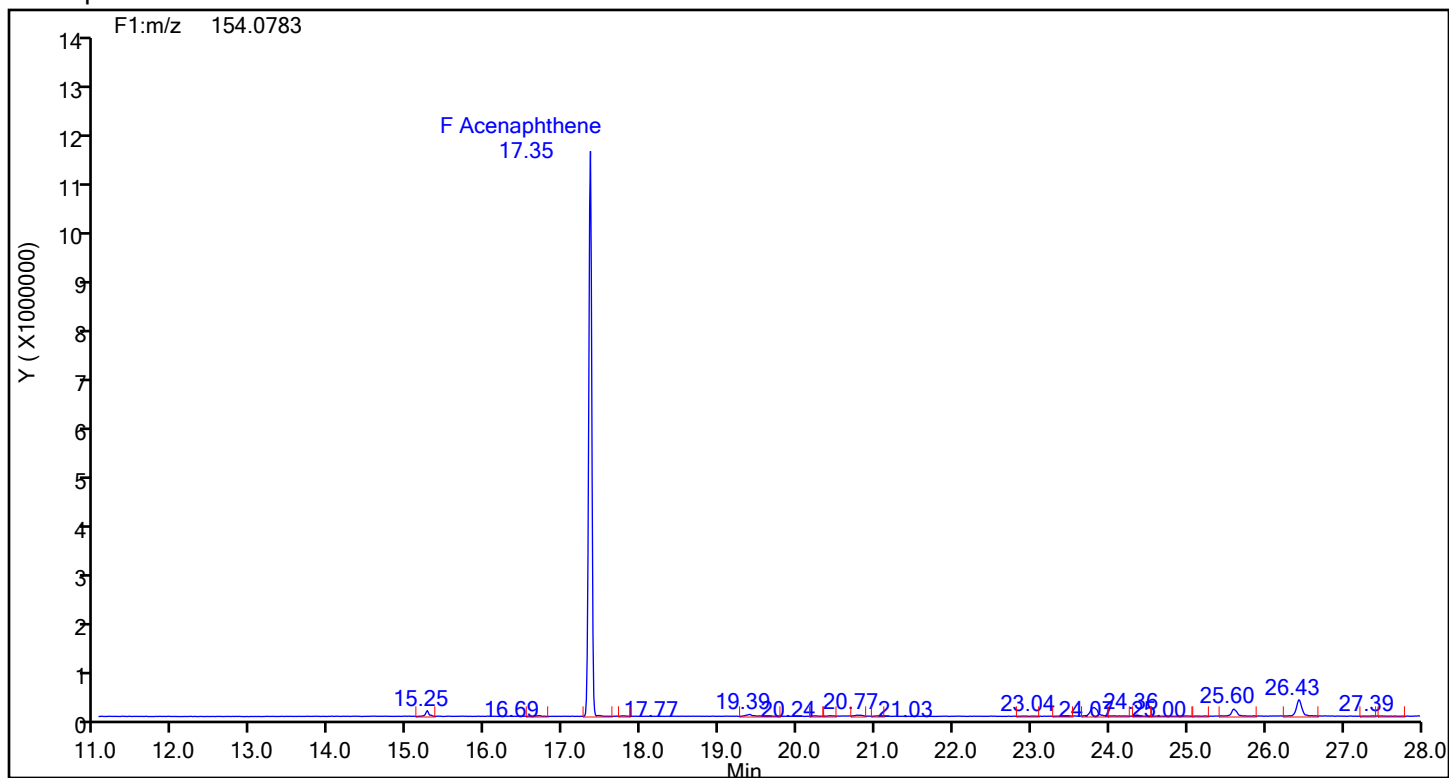
## Acenaphthene-d10 Standards



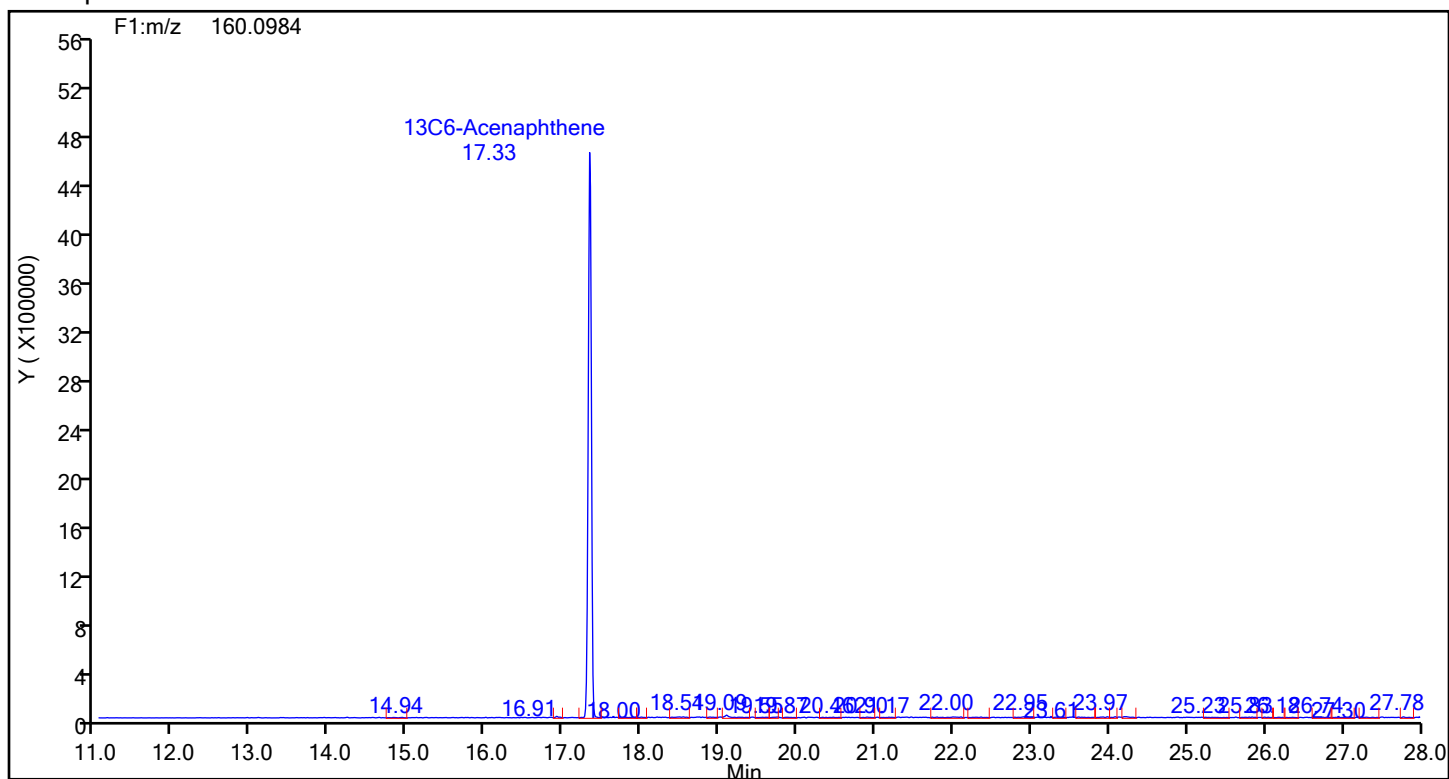
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



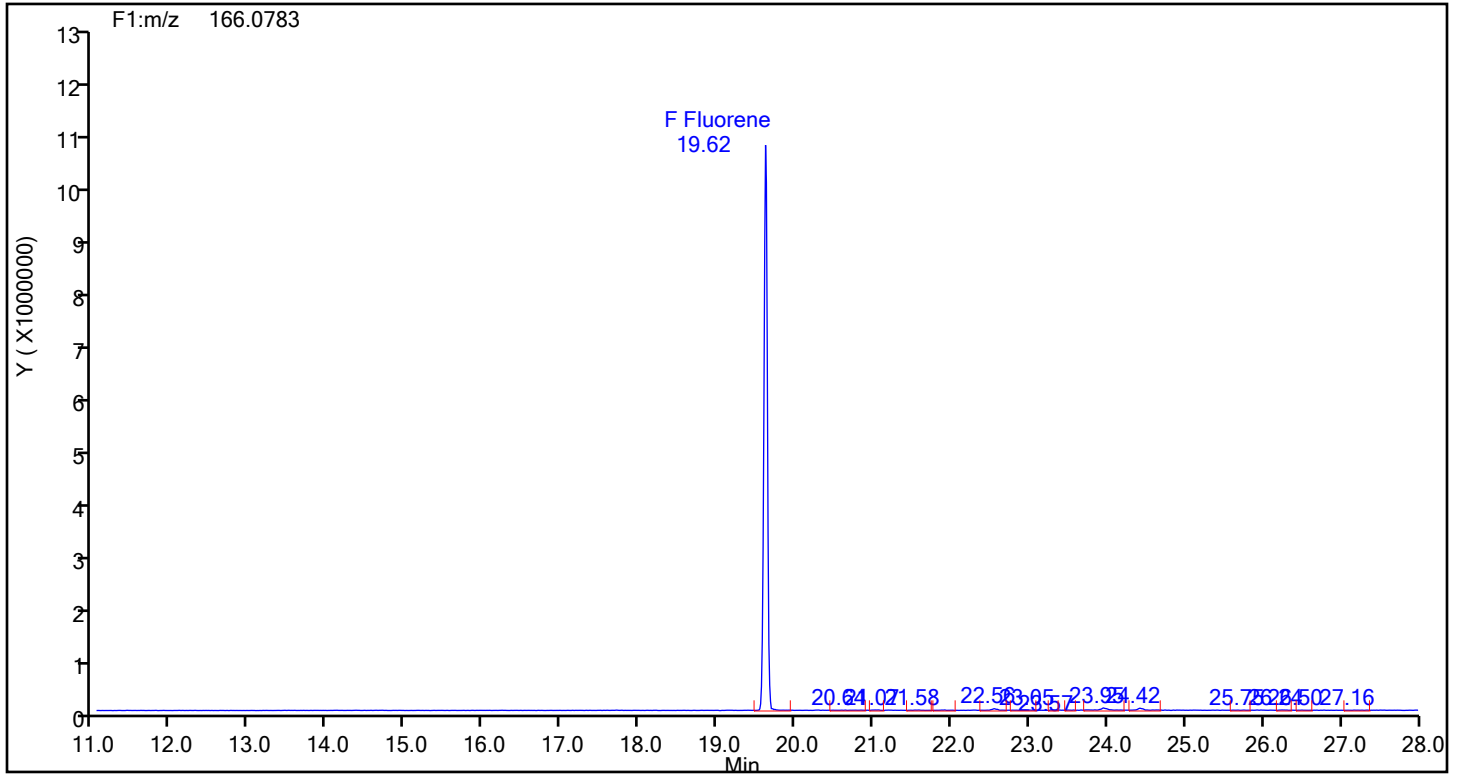
## Acenaphthene Standards



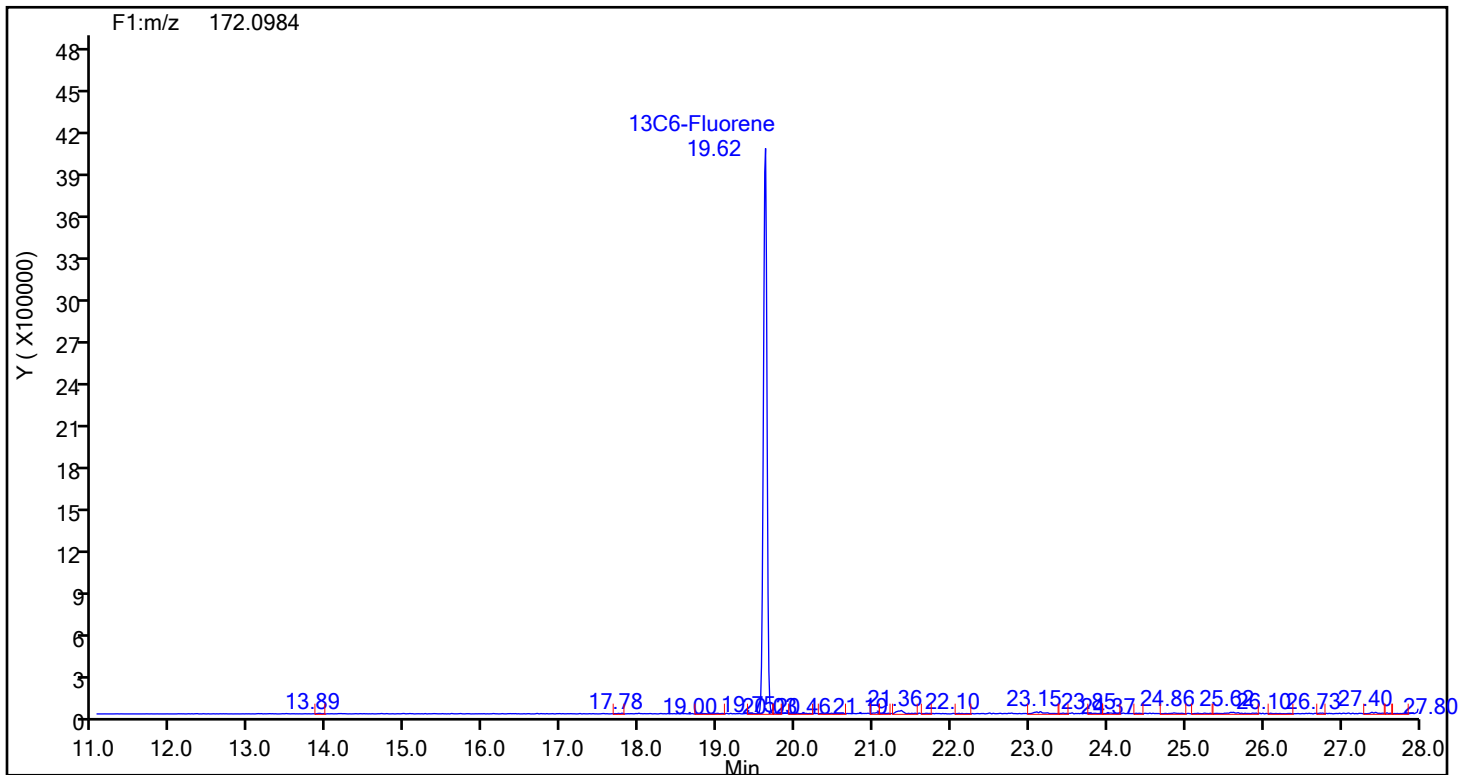
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Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



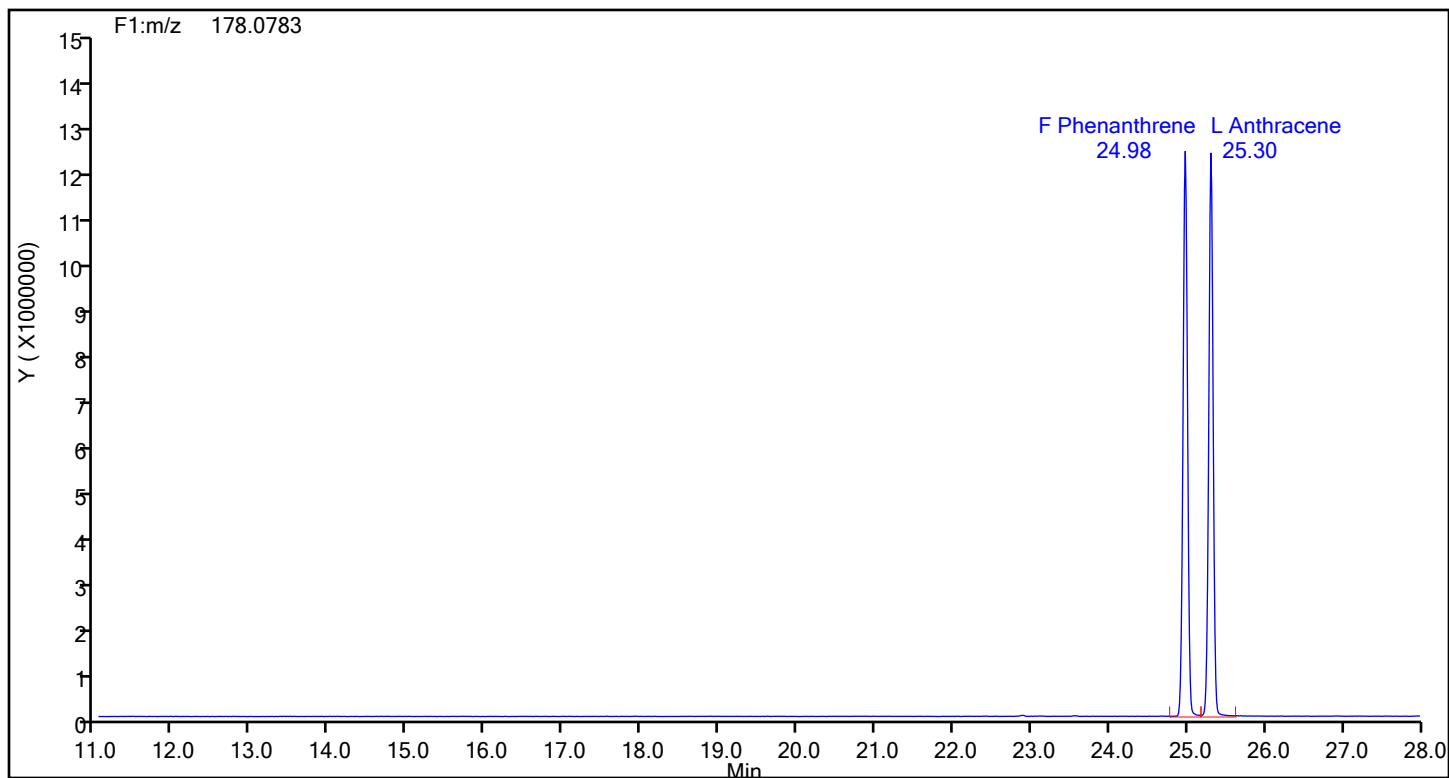
## Fluorene Standards



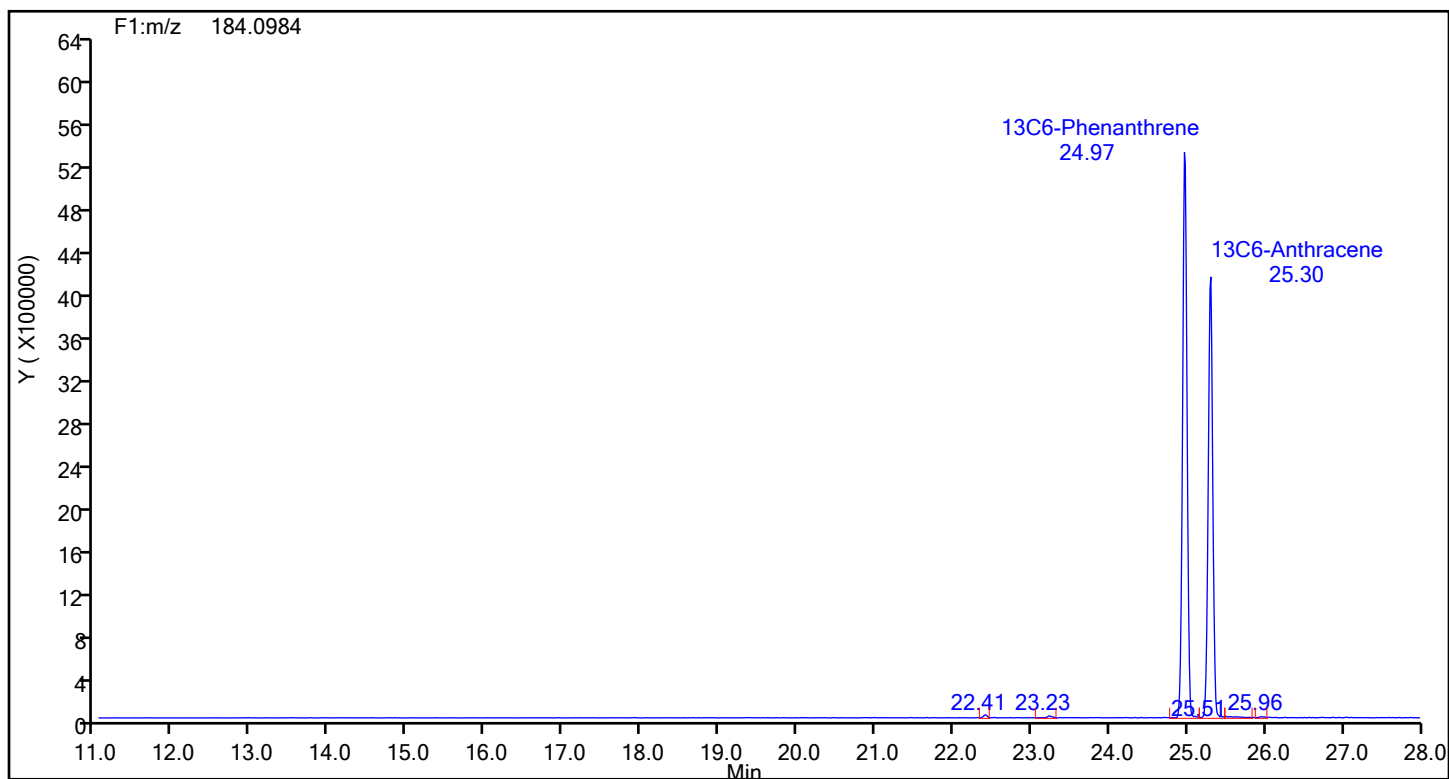


## Eurofins Knoxville

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Phenanthrene

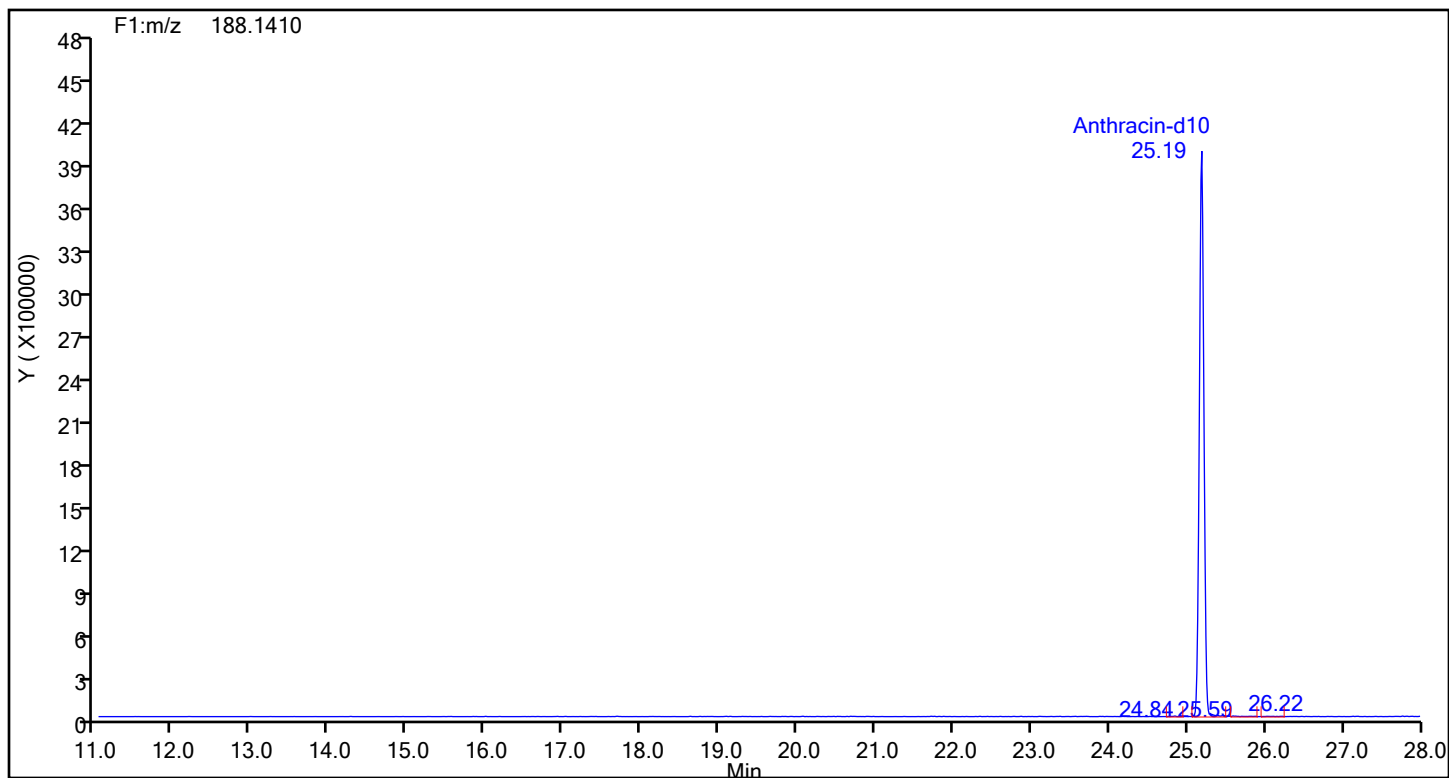


## Phenanthrene Standards

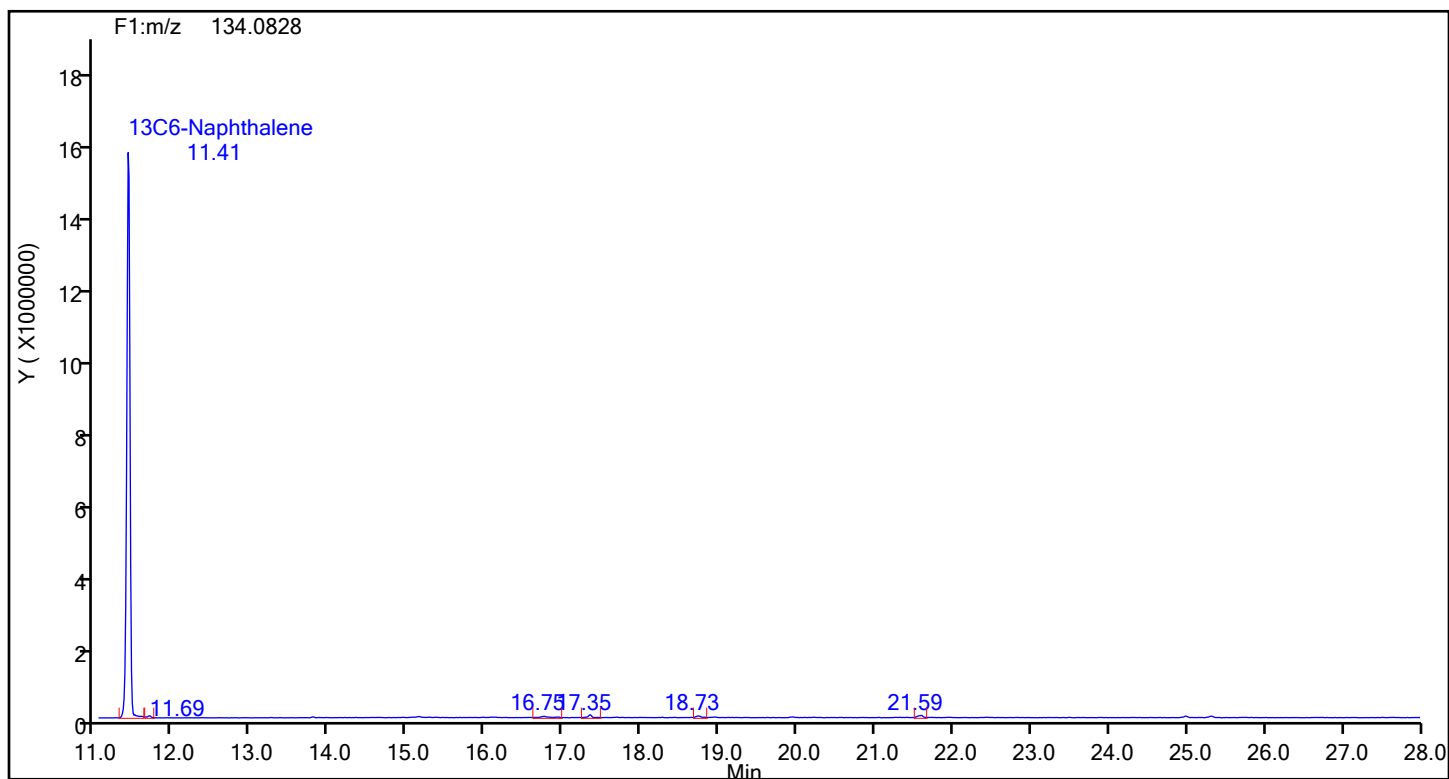


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Anthracin-d10

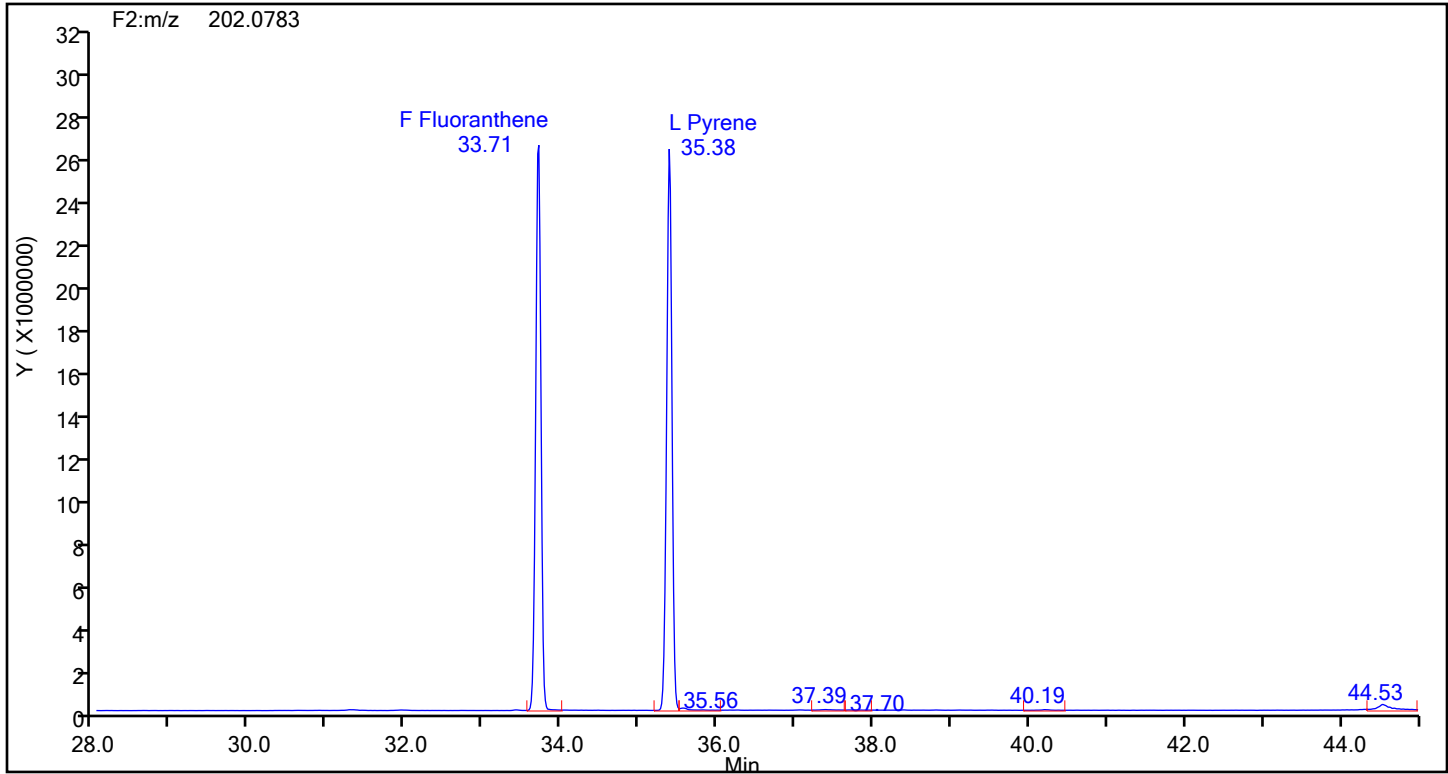


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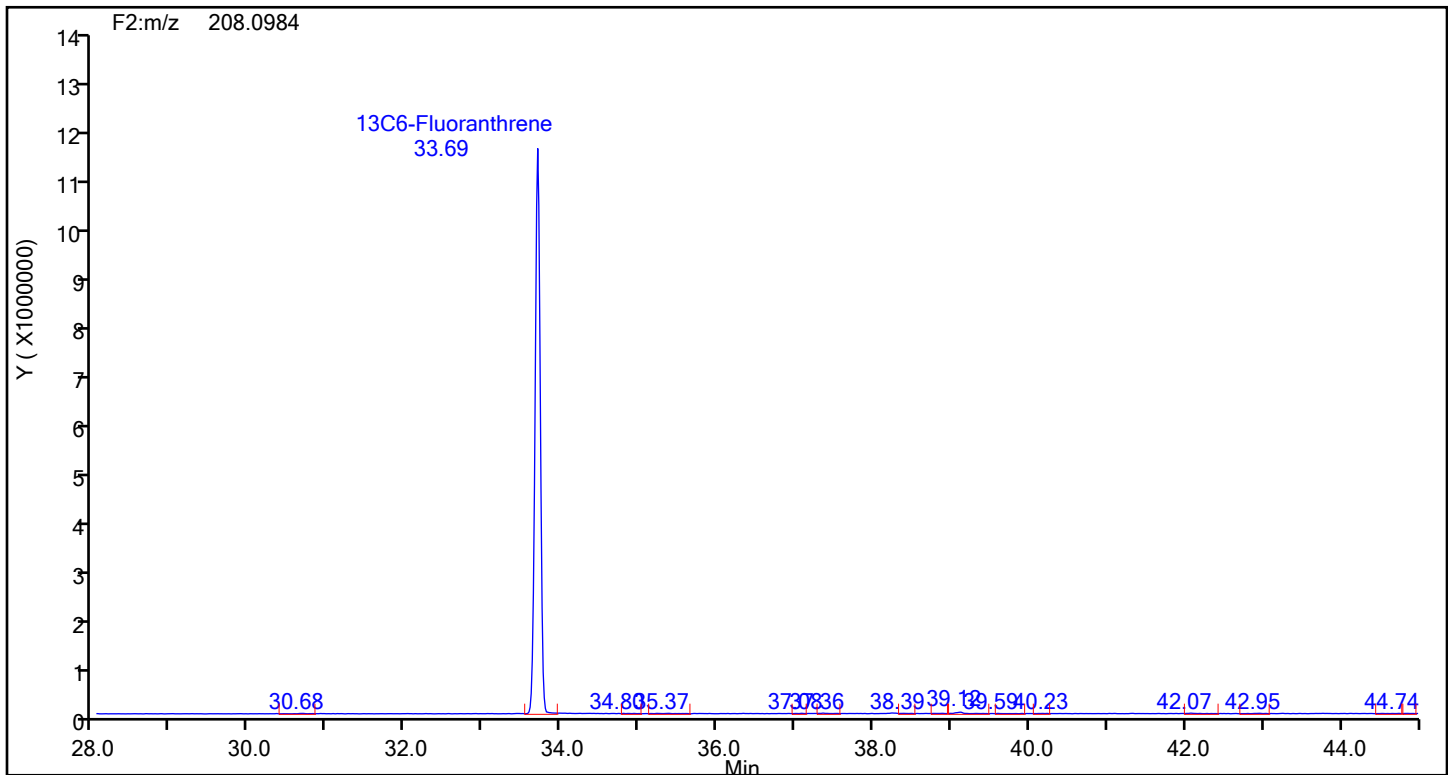


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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



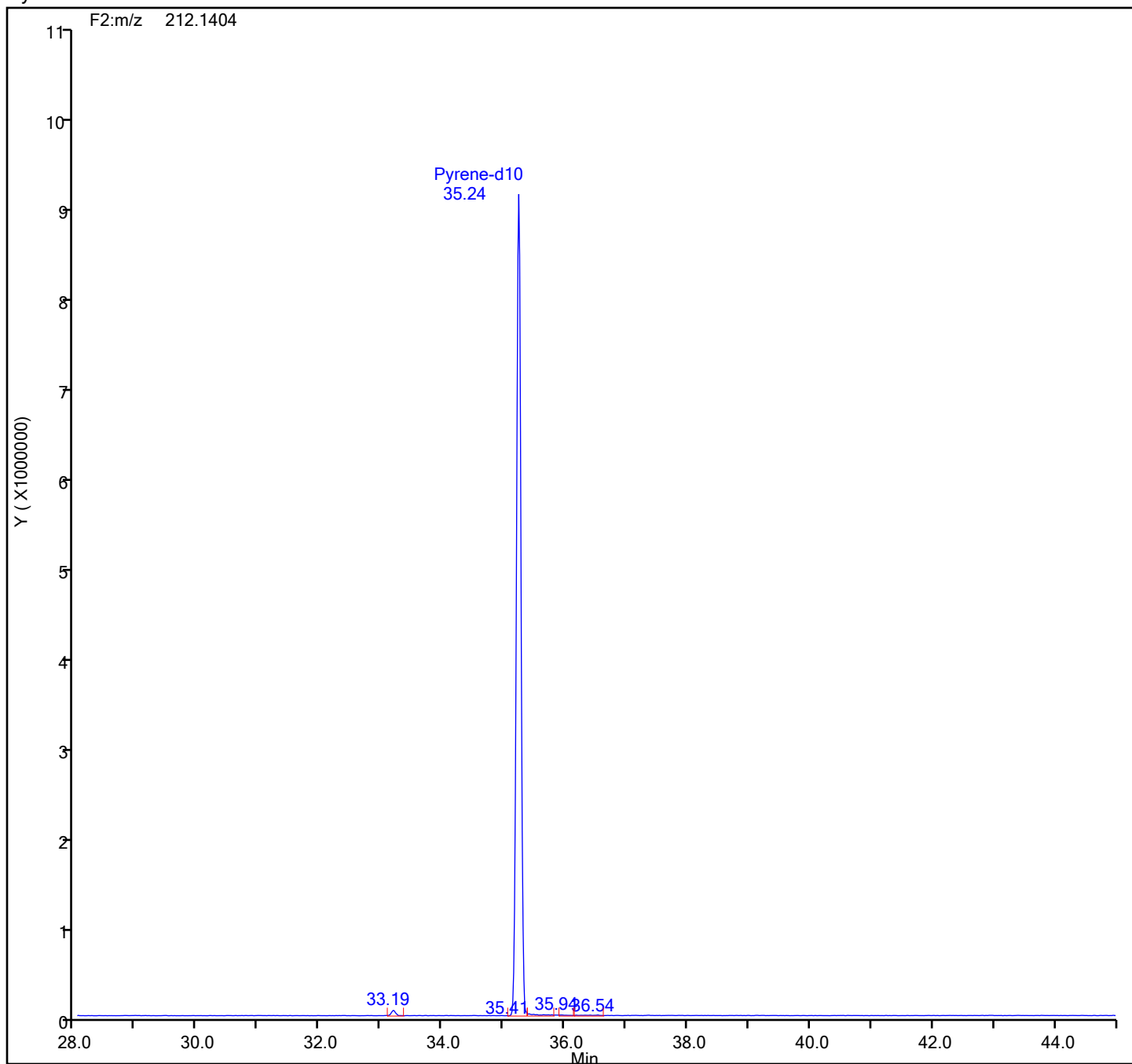
## Fluoranthene Standards



## Eurofins Knoxville

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Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

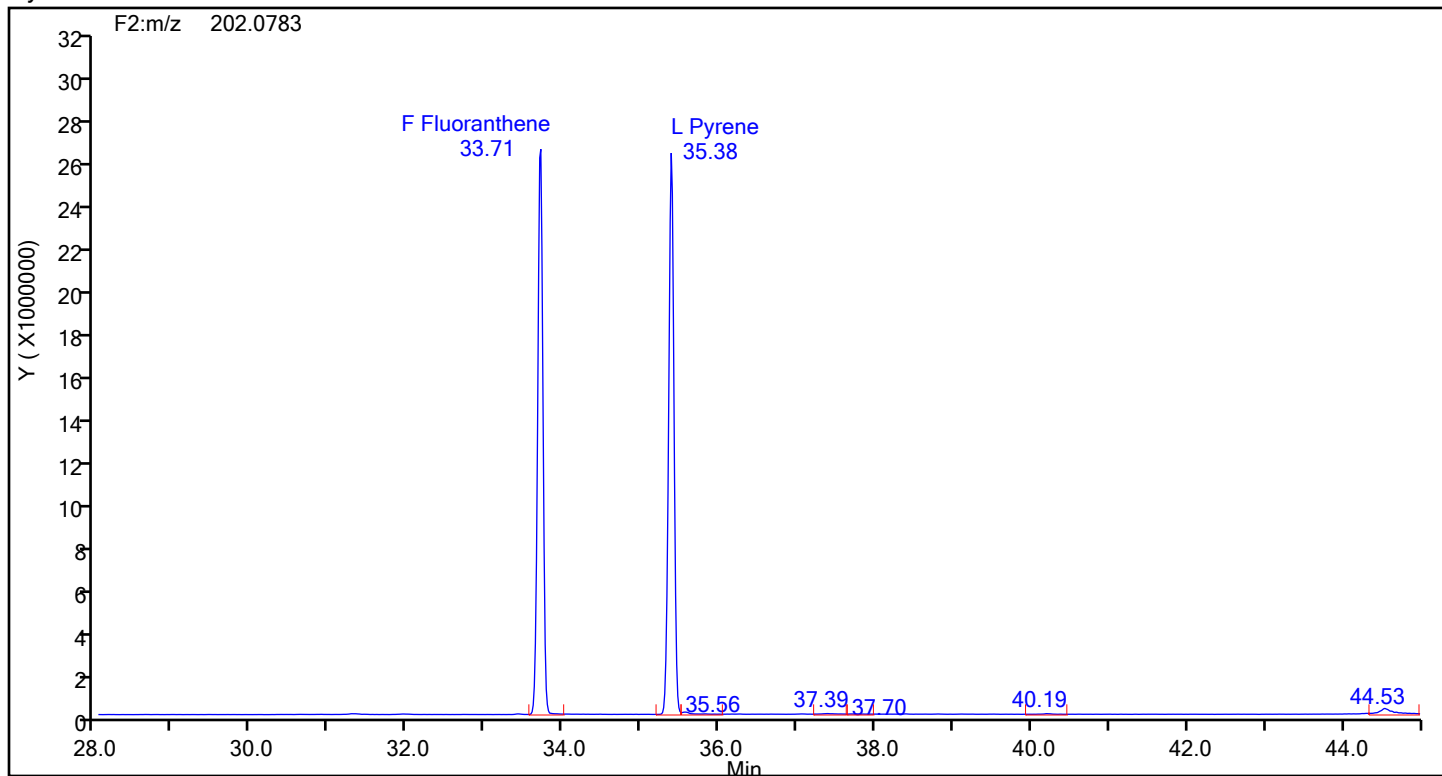
## Pyrene-d10 Standards



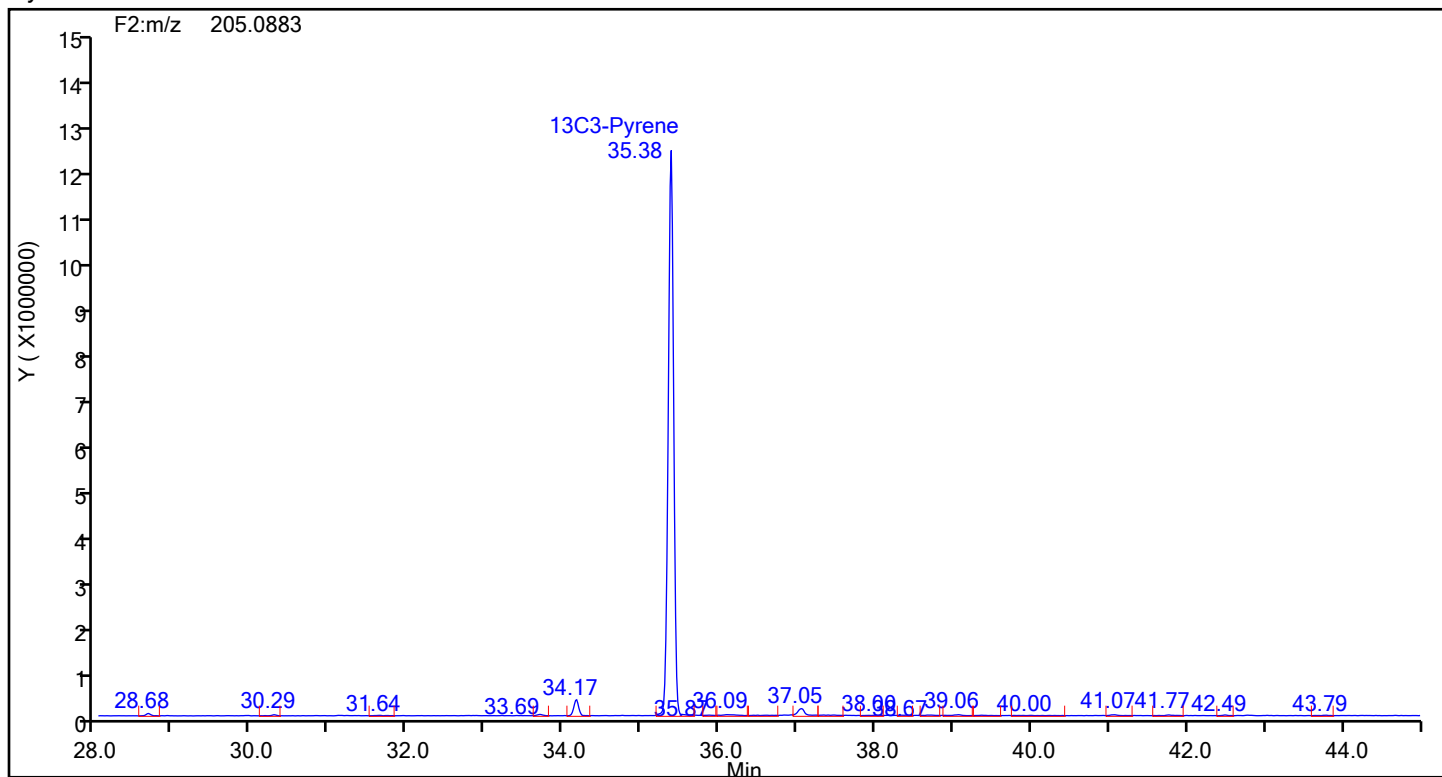
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



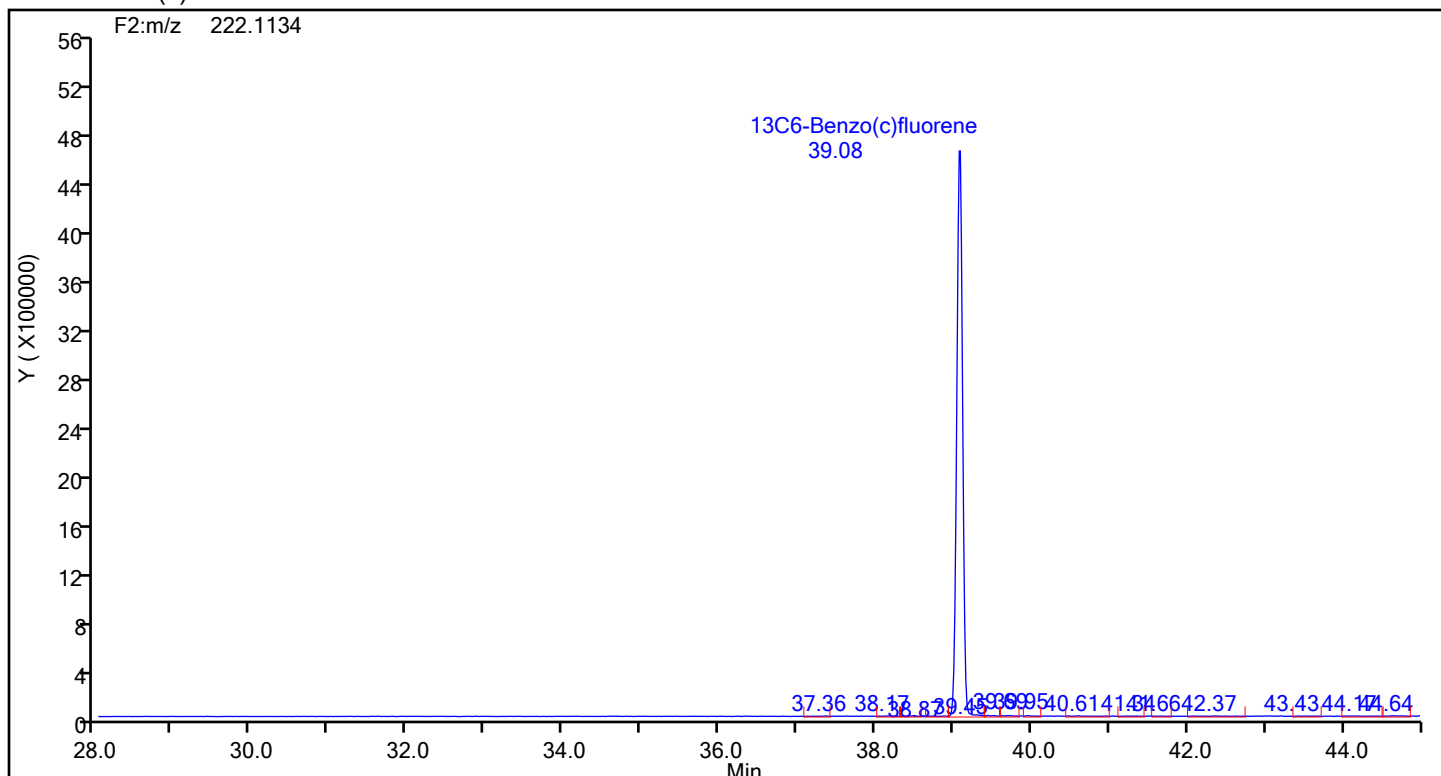
## Pyrene Standards



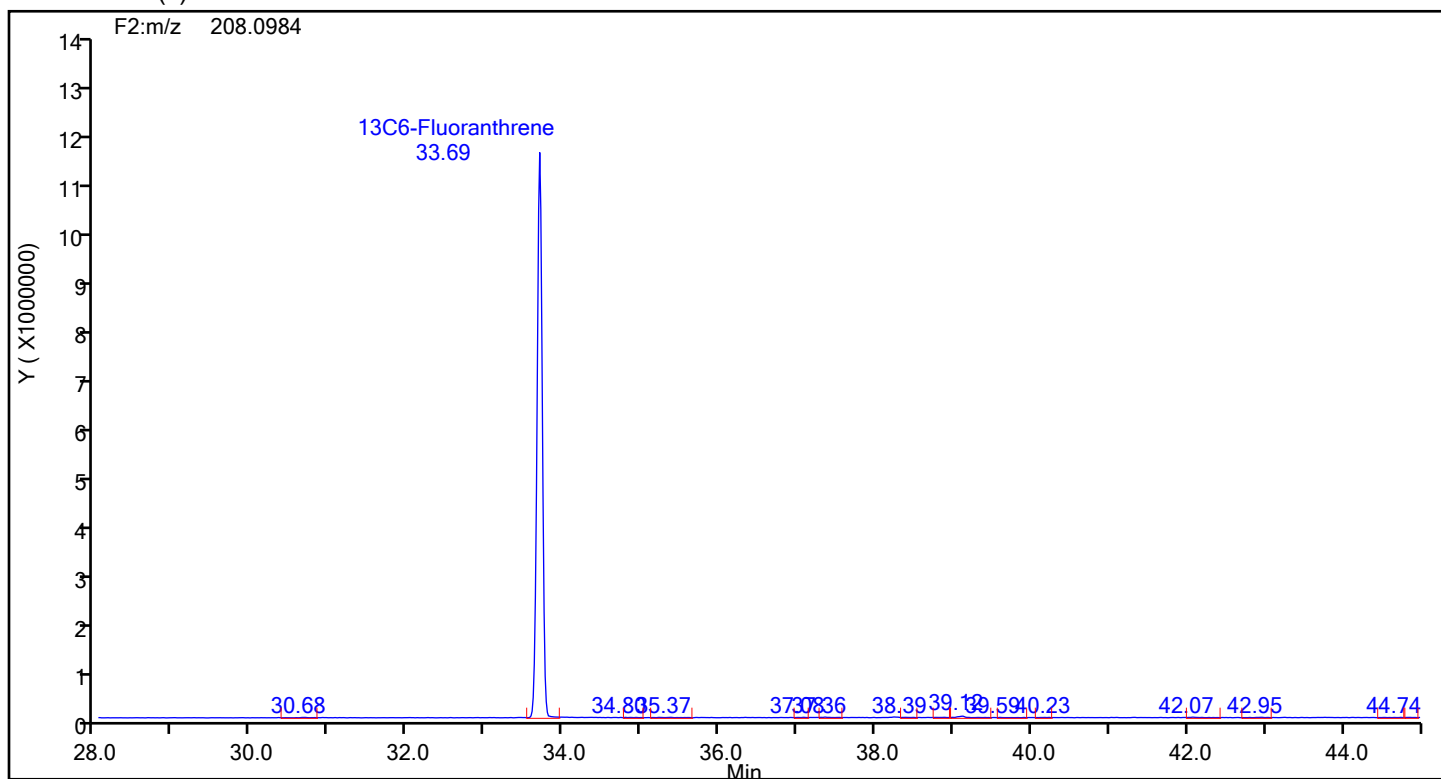
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Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



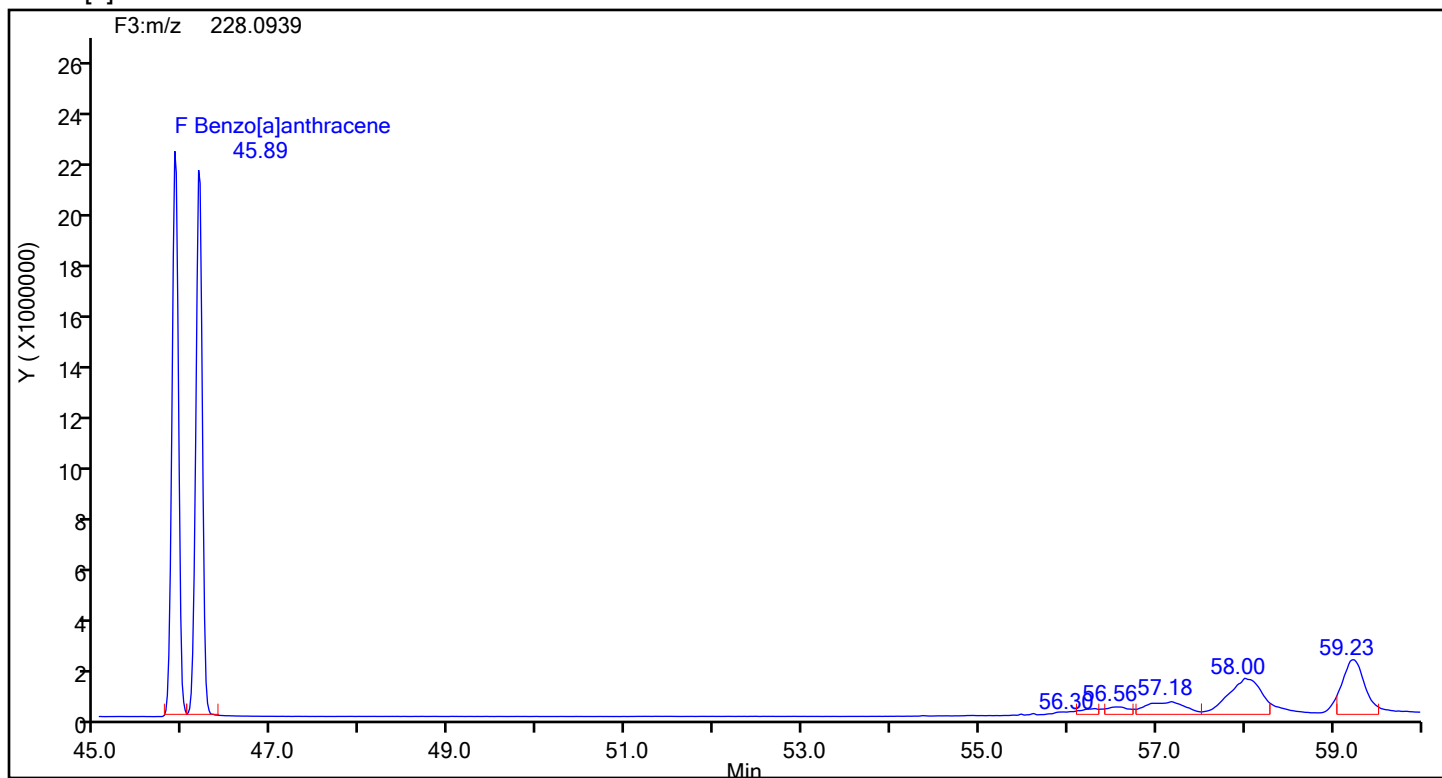
## 13C6-Benzo(c)fluorene Standards



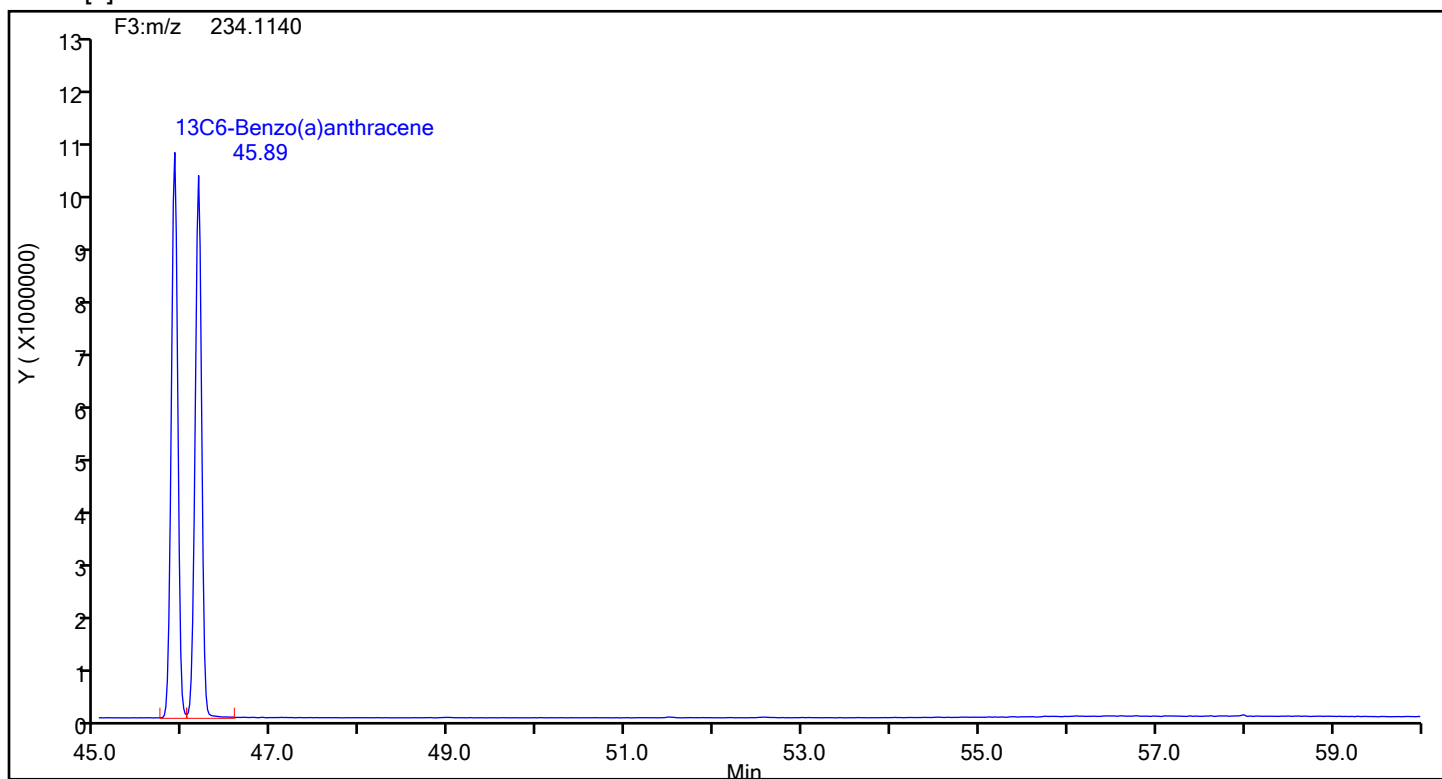
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\d3240717c1a.d  
Injection Date: 17-Jul-2024 12:02:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



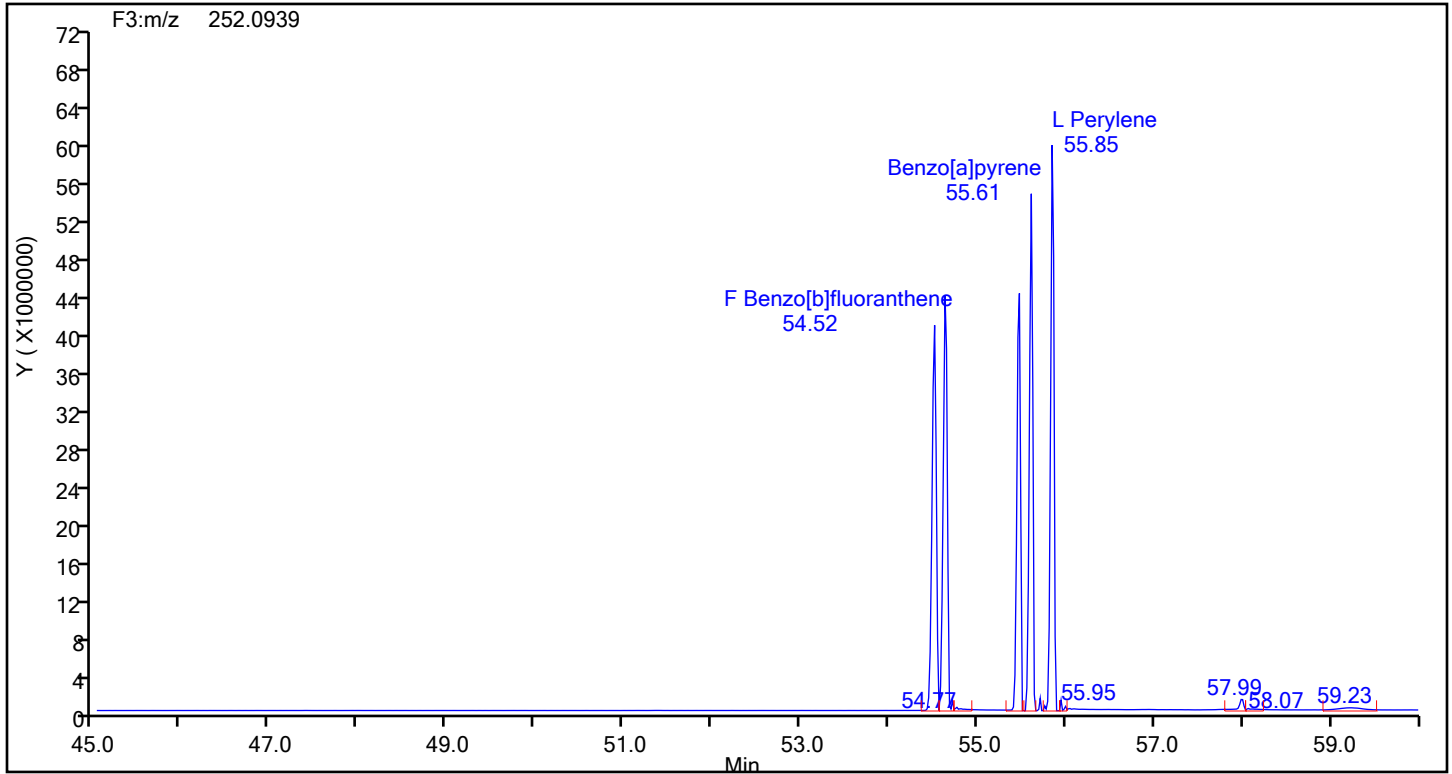
## Benzo[a]anthracene Standards



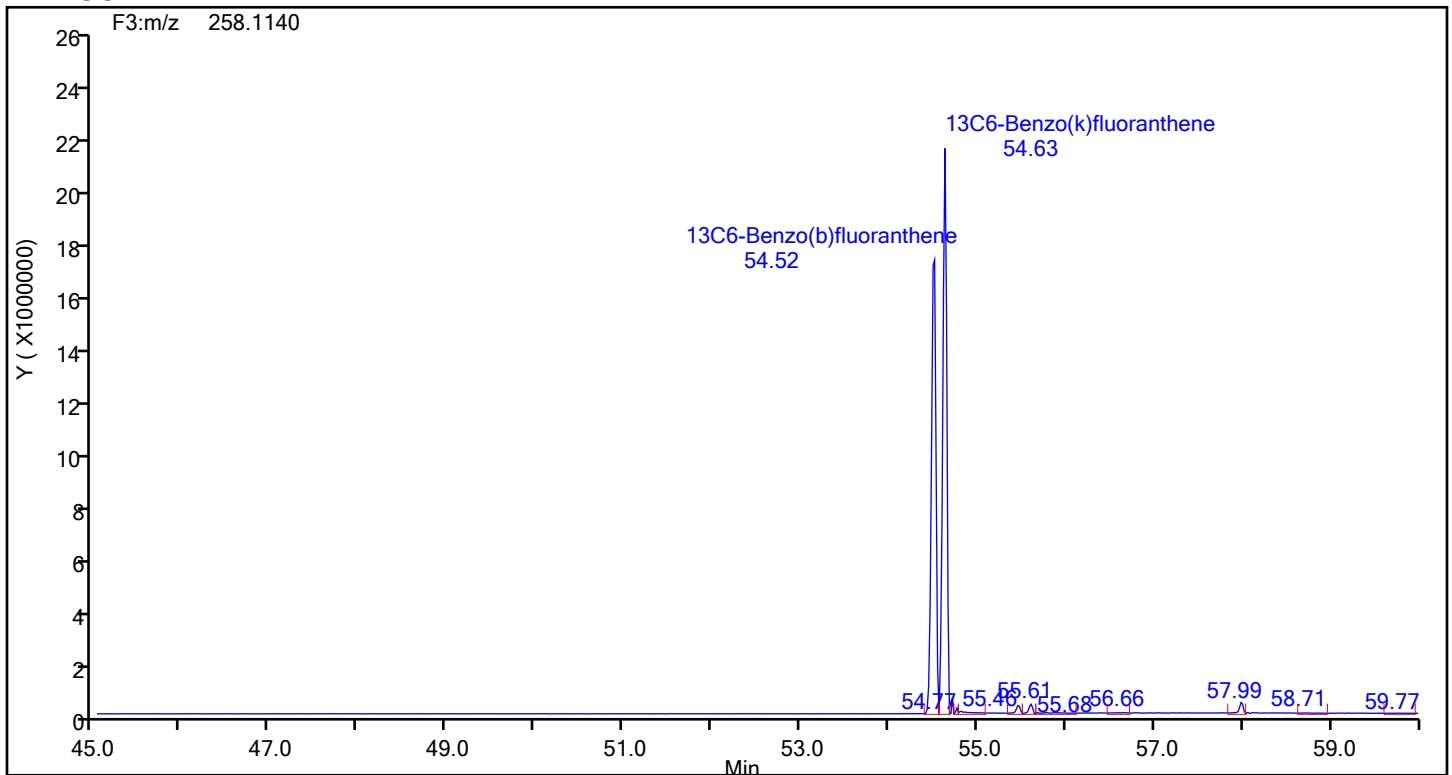
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\d3240717c1a.d  
Injection Date: 17-Jul-2024 12:02:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards

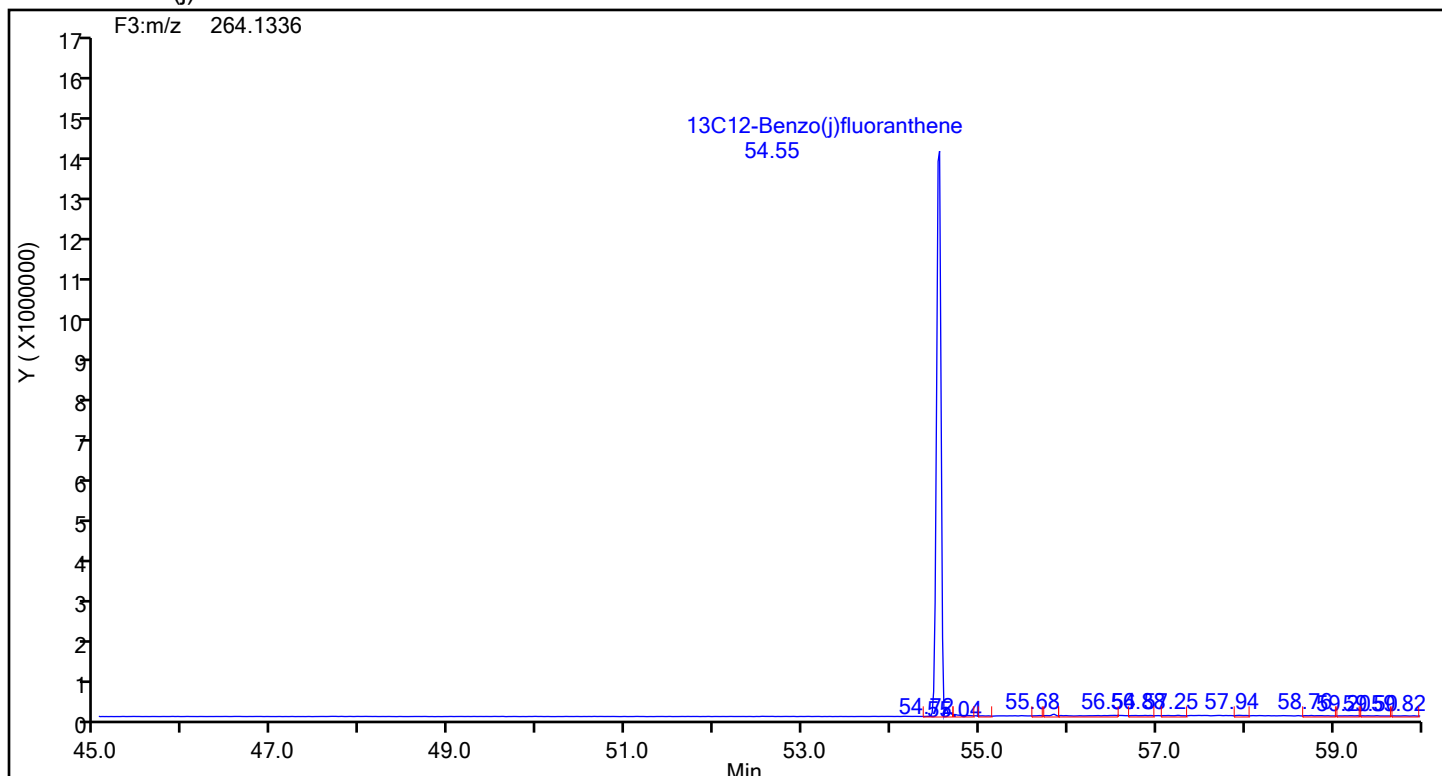




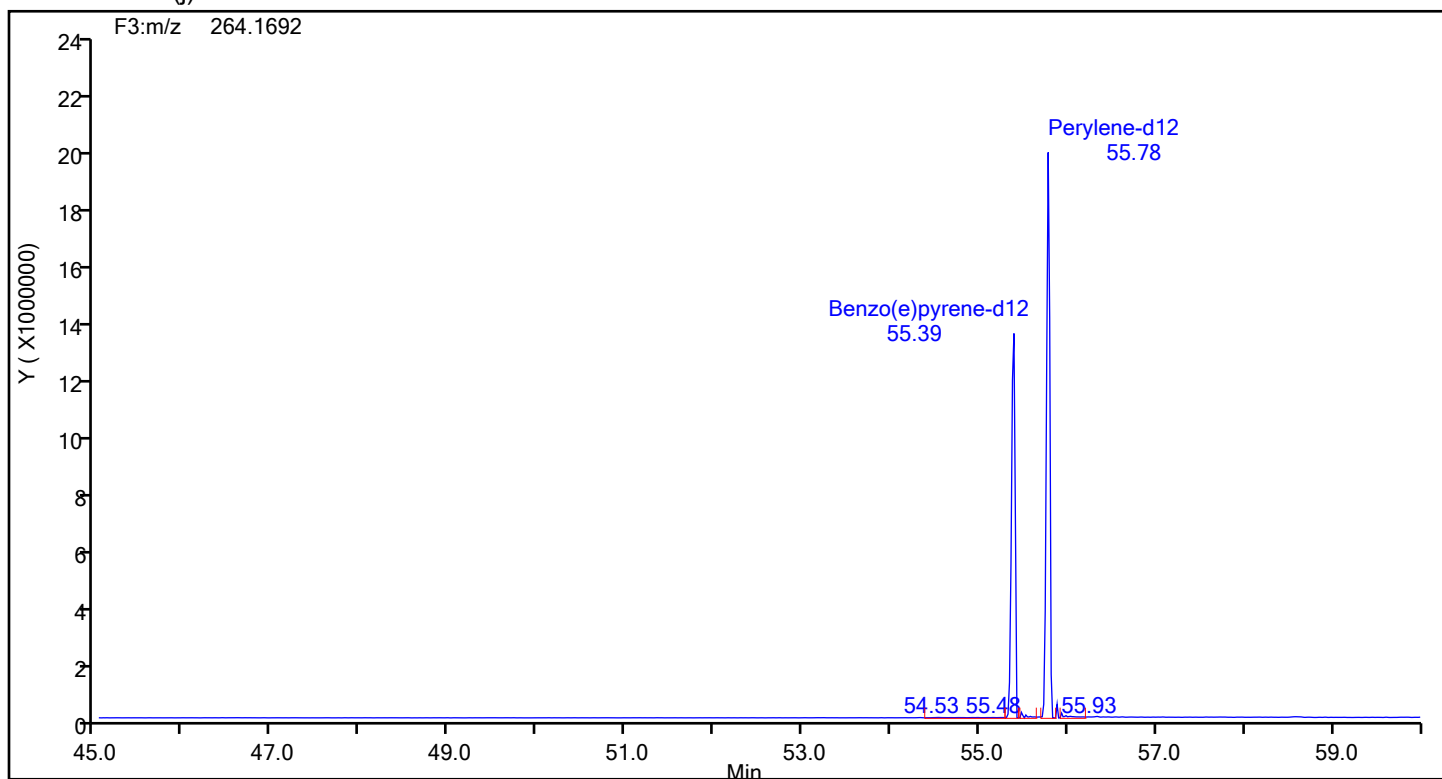
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\d3240717c1a.d  
Injection Date: 17-Jul-2024 12:02:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



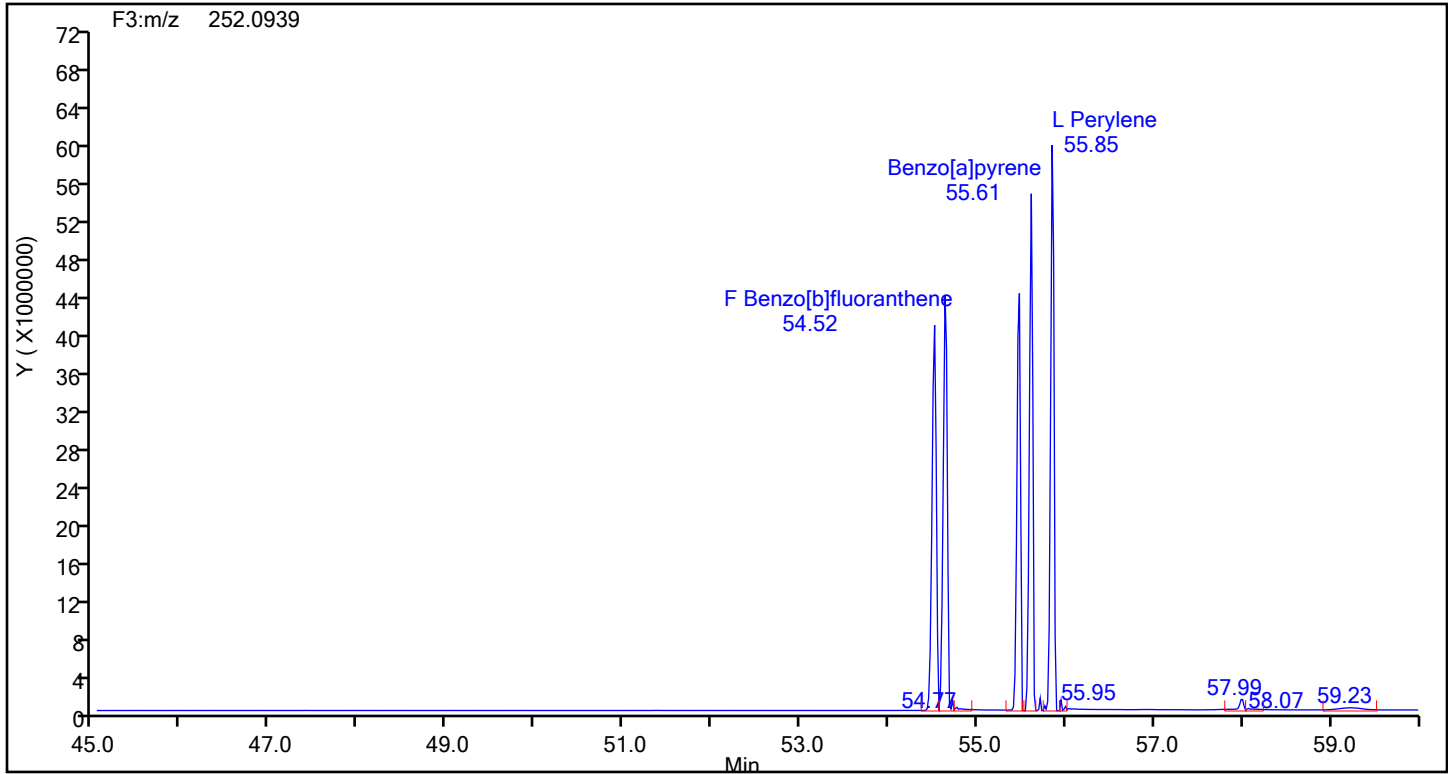
## 13C12-Benzo(j)fluoranthene Standards



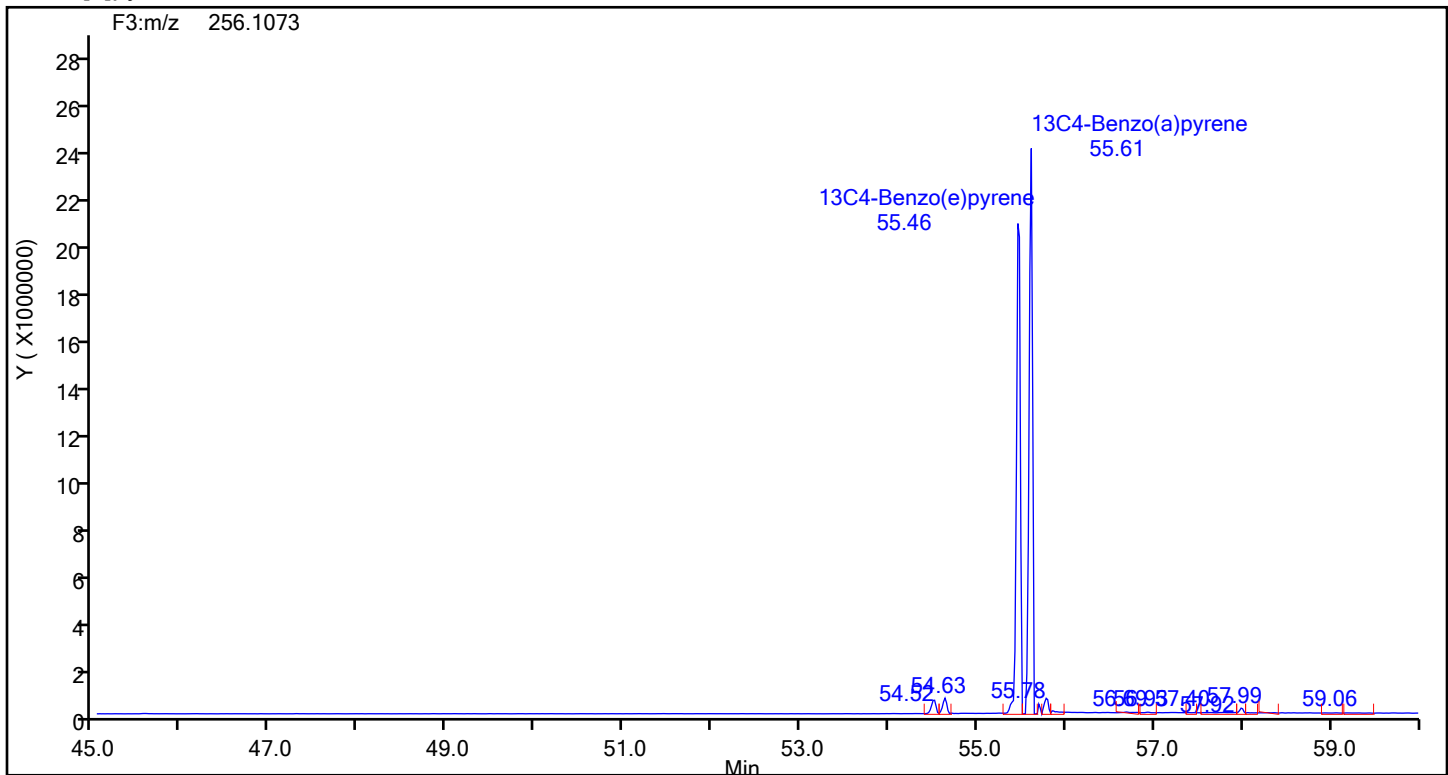
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\d3240717c1a.d  
Injection Date: 17-Jul-2024 12:02:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAL ICAL  
Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



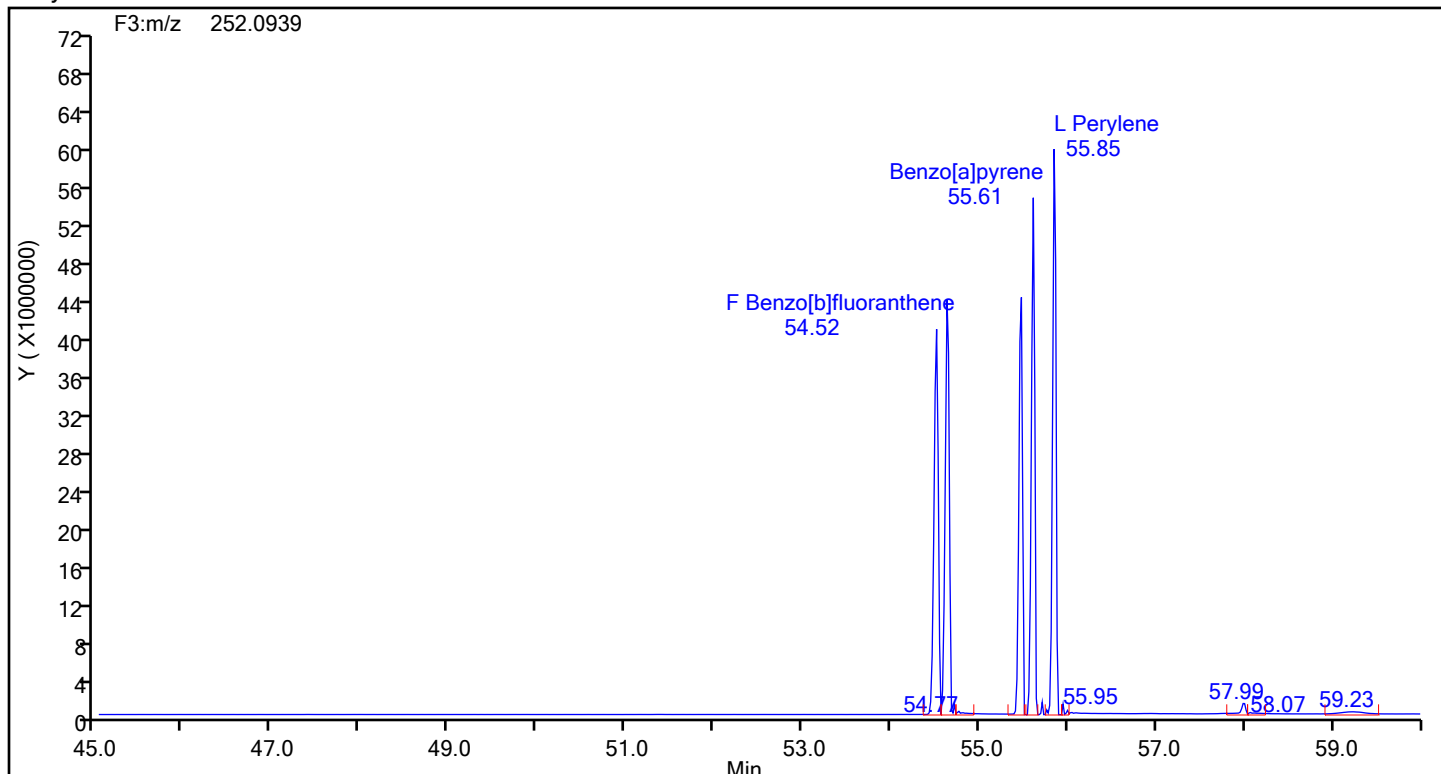
## Benzo[e]pyrene Standards



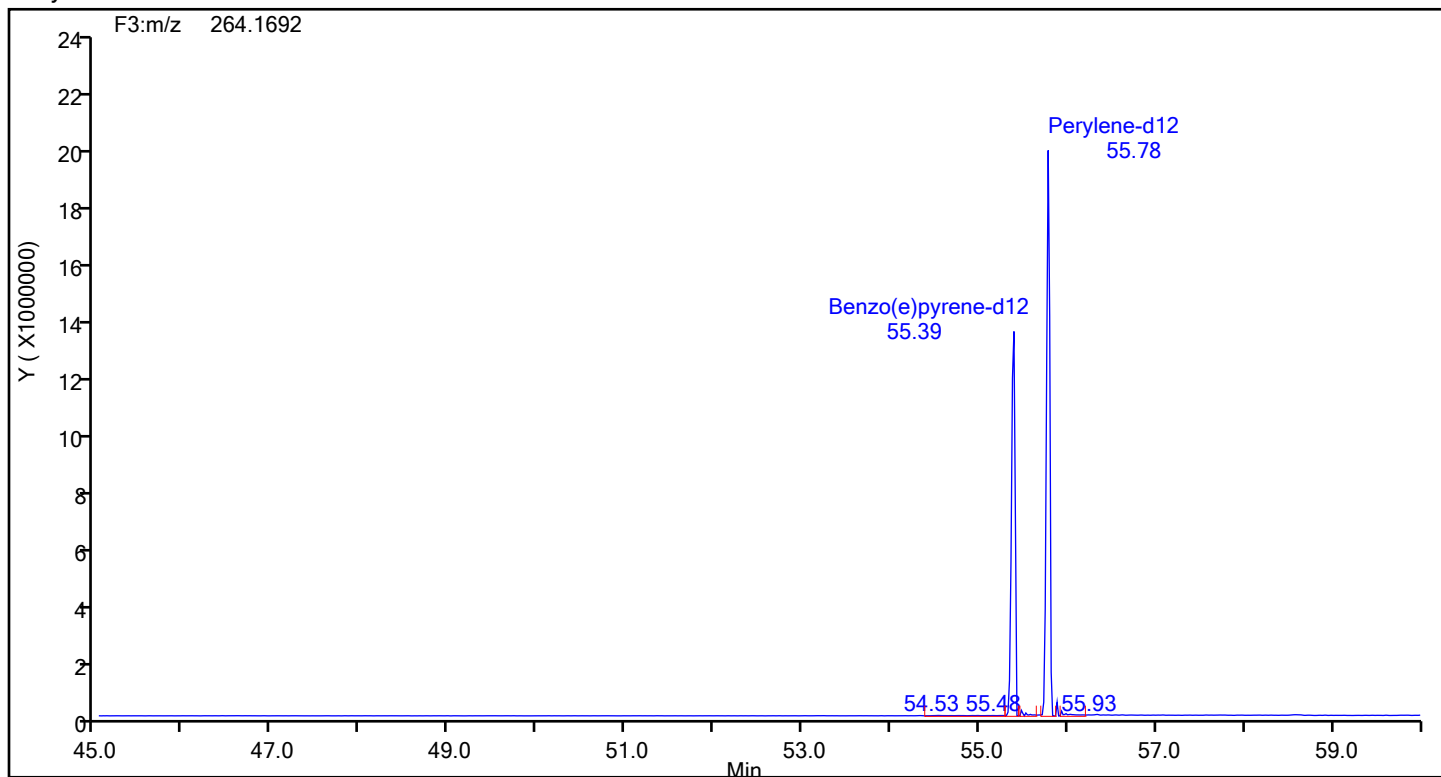
Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\3240717c1a.d		
Injection Date:	17-Jul-2024 12:02:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	88872	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Perylene			

## Perylene



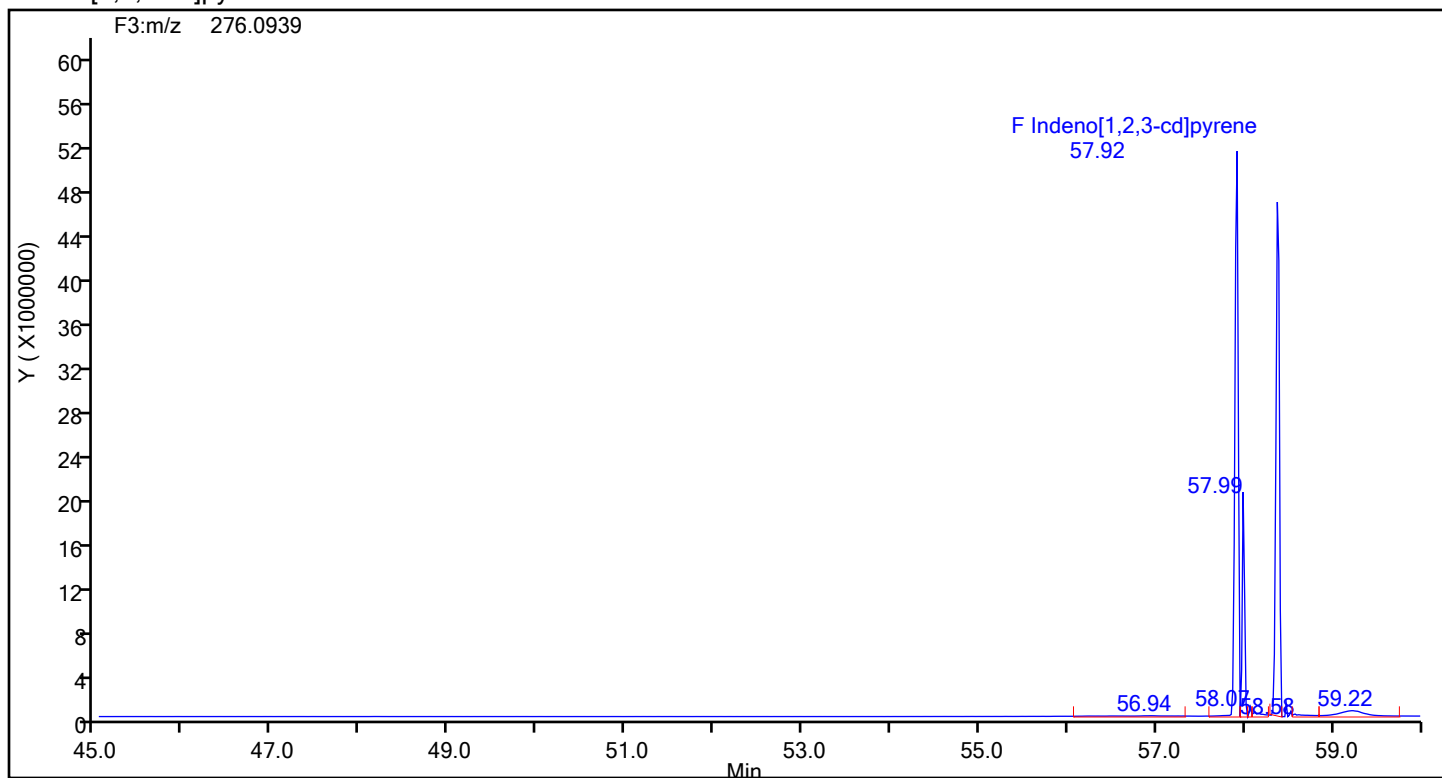
## Perylene Standards



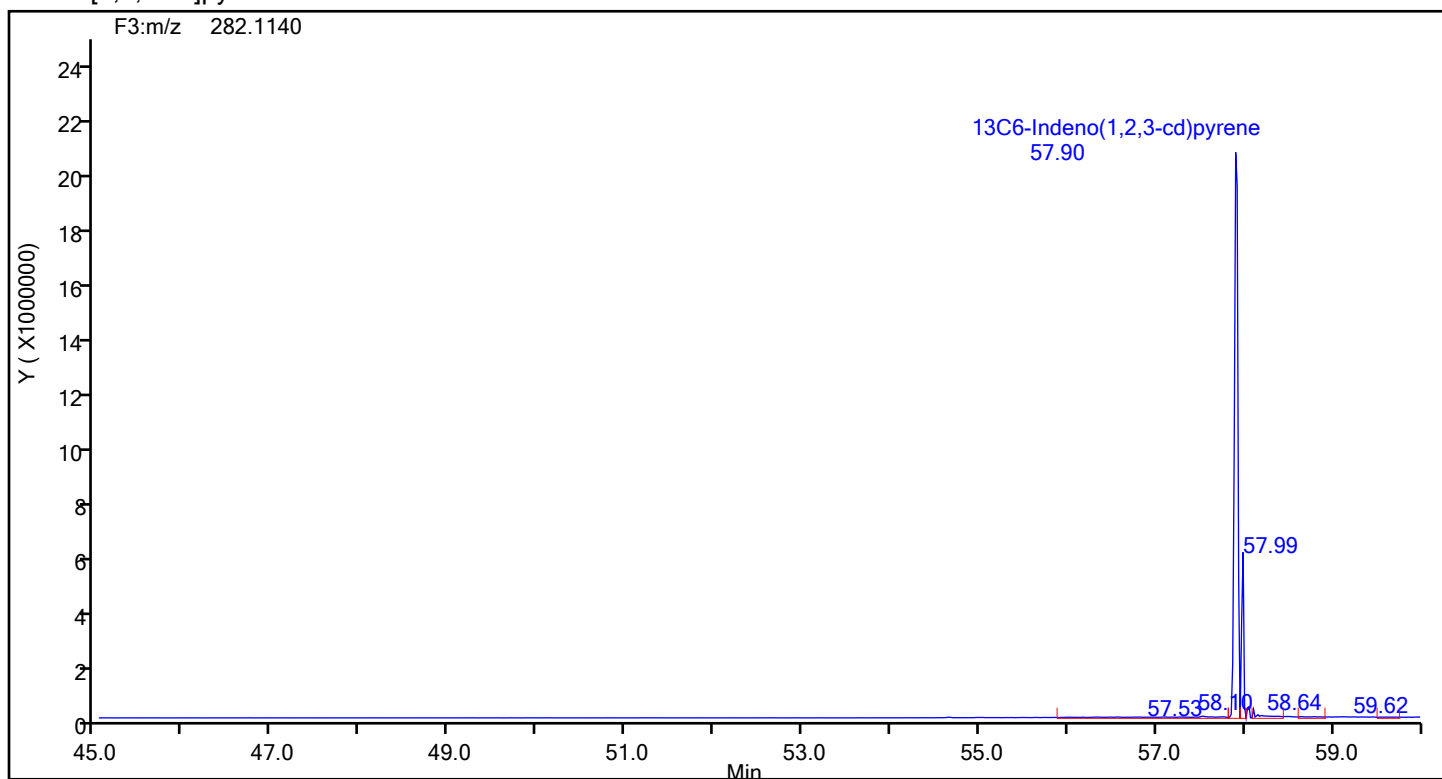
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\d3240717c1a.d  
Injection Date: 17-Jul-2024 12:02:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene



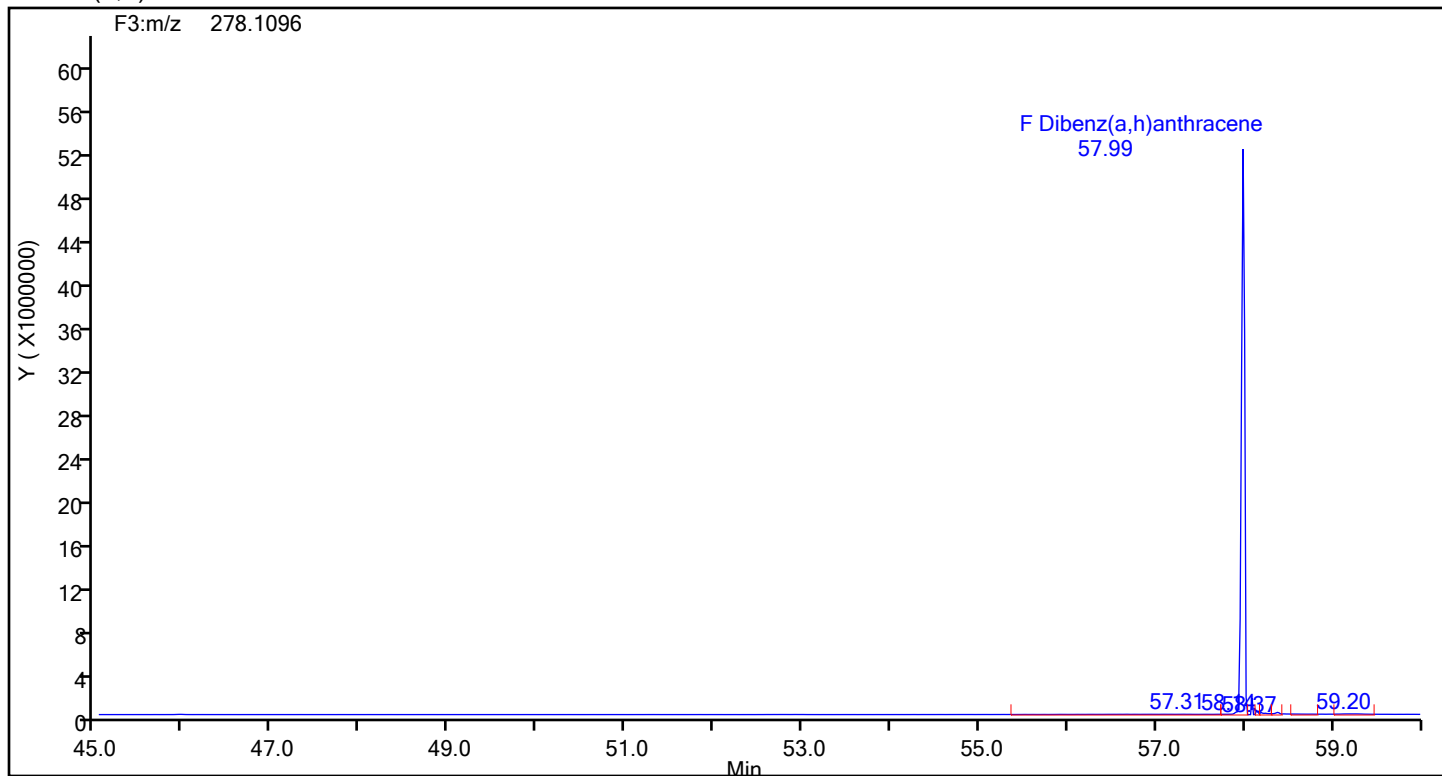
## Indeno[1,2,3-cd]pyrene Standards



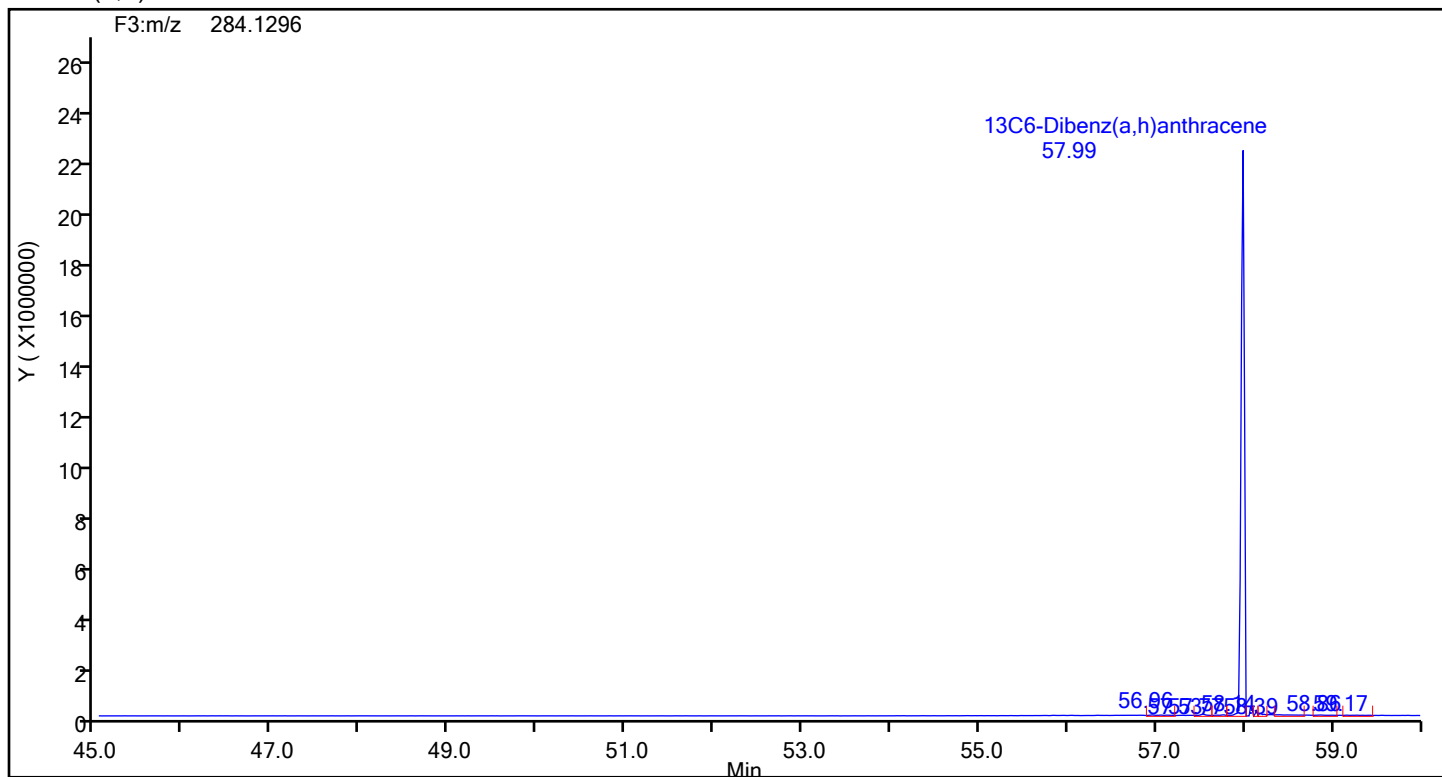
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\d3240717c1a.d  
Injection Date: 17-Jul-2024 12:02:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



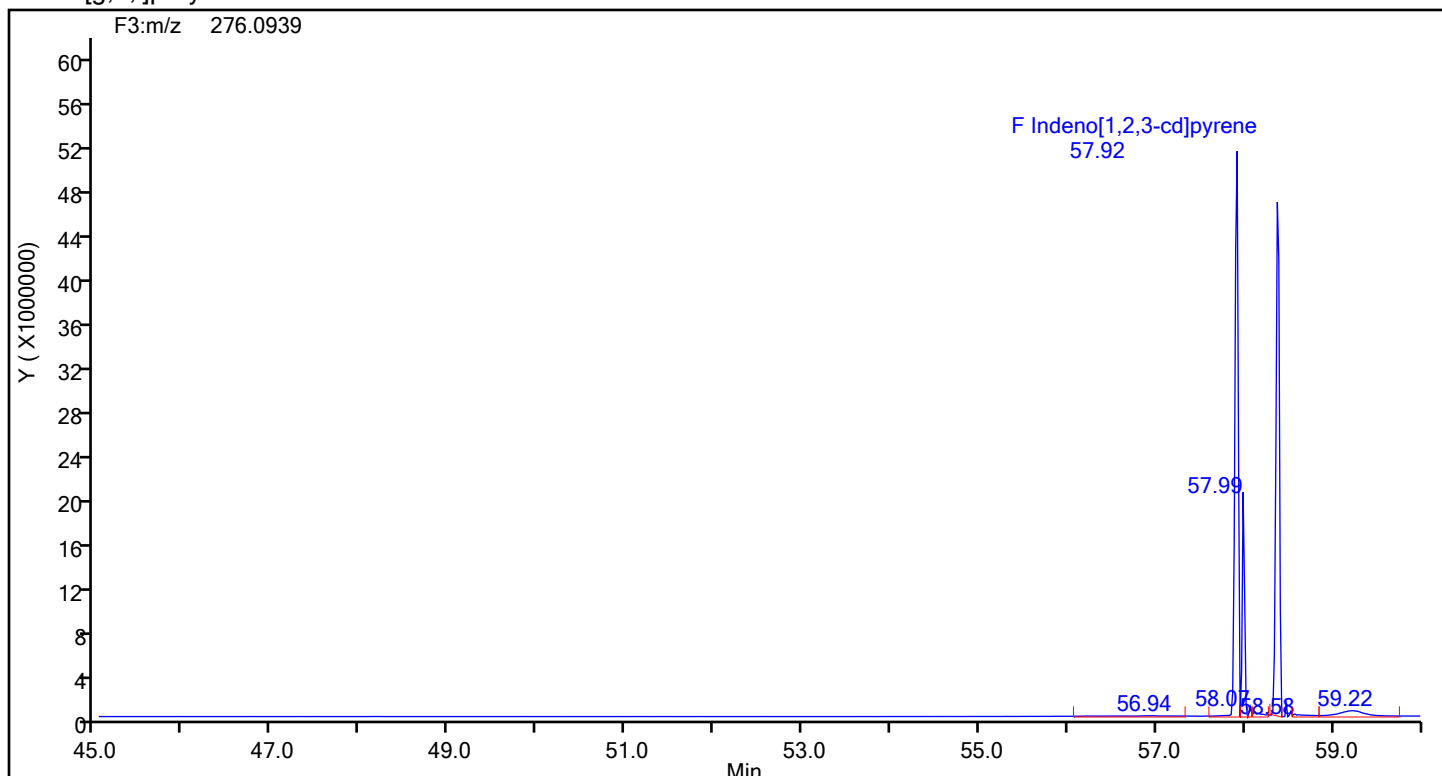
## Dibenz(a,h)anthracene Standards



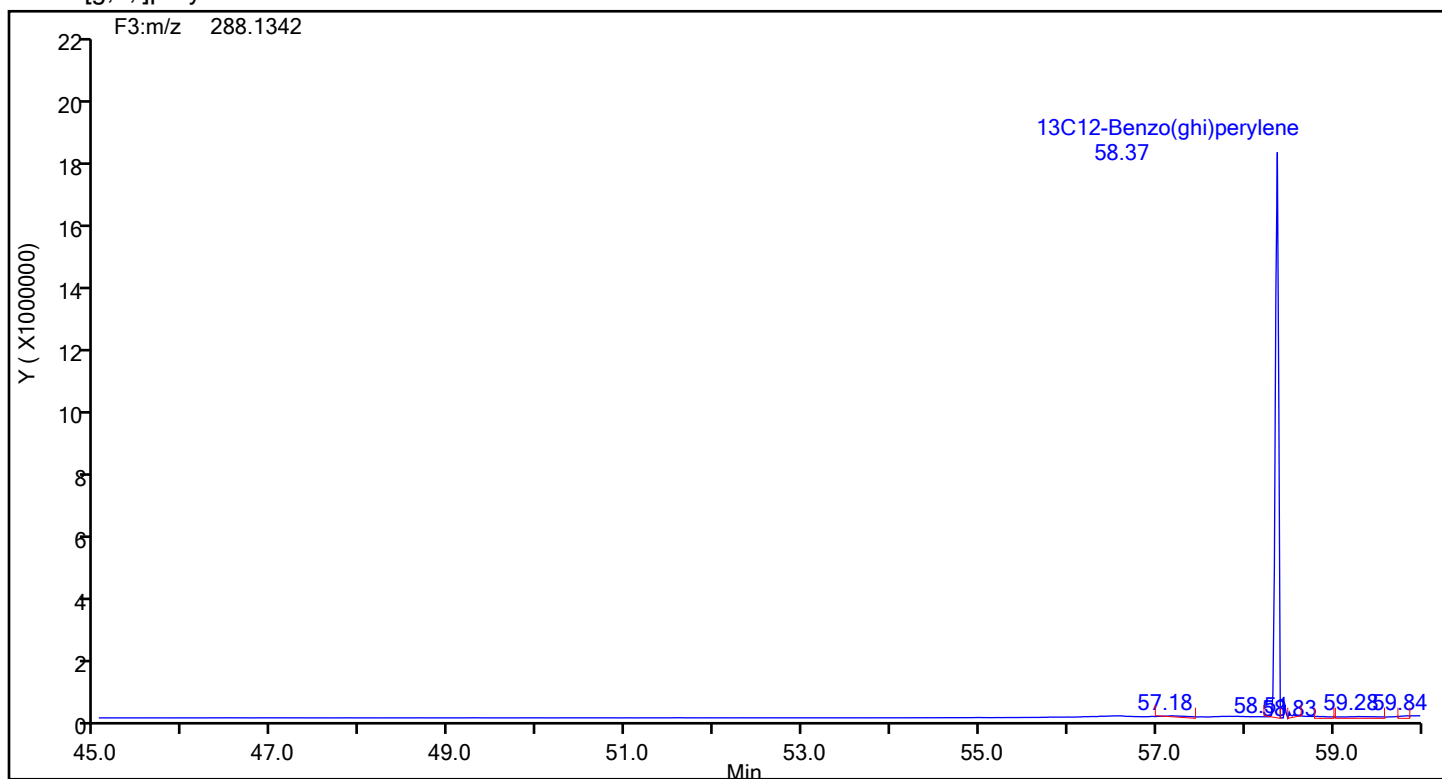
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240717-33545.b\d3240717c1a.d  
Injection Date: 17-Jul-2024 12:02:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88872 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



FORM VII  
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCV 140-88945/1 Calibration Date: 07/18/2024 21:47

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240718c2a\_20240718214503.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.201		186	200	-6.9	25.0
2-Methylnaphthalene	AveID	1.279	1.258		197	200	-1.6	25.0
Acenaphthylene	AveID	2.366	2.187		185	200	-7.6	25.0
Acenaphthene	AveID	1.270	1.211		191	200	-4.6	25.0
Fluorene	AveID	1.253	1.260		201	200	0.5	25.0
Phenanthrene	AveID	1.104	1.131		205	200	2.4	25.0
Anthracene	AveID	1.359	1.401		206	200	3.1	25.0
Fluoranthene	AveID	1.151	1.155		201	200	0.3	25.0
Pyrene	AveID	1.065	1.061		199	200	-0.4	25.0
Benzo[a]anthracene	AveID	0.9739	1.054		217	200	8.3	25.0
Chrysene	AveID	0.9815	1.070		218	200	9.0	25.0
Benzo[b]fluoranthene	AveID	1.125	1.121		199	200	-0.3	25.0
Benzo[k]fluoranthene	AveID	1.127	1.090		193	200	-3.3	25.0
Benzo[e]pyrene	AveID	1.001	0.9876		197	200	-1.4	25.0
Benzo[a]pyrene	AveID	1.113	1.065		191	200	-4.3	25.0
Perylene	AveID	1.431	1.563		219	200	9.2	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.170		208	200	4.0	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.190		210	200	5.2	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.275		199	200	-0.6	25.0
13C6-Naphthalene	Ave	3.375	2.880		85.3	100	-14.7	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.400		87.3	100	-12.7	30.0
13C6-Acenaphthylene	Ave	1.652	1.650		99.9	100	-0.1	30.0
13C6-Acenaphthene	Ave	0.9792	1.017		104	100	3.9	30.0
13C6-Fluorene	Ave	0.8898	0.998		112	100	12.1	30.0
13C6-Phenanthrene	Ave	0.5724	0.5299		92.6	100	-7.4	30.0
13C6-Anthracene	Ave	0.4523	0.4107		90.8	100	-9.2	30.0
13C6-Fluoranthrene	Ave	1.199	1.294		108	100	7.9	30.0
13C3-Pyrene	Ave	1.351	1.471		109	100	8.9	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.205		79.3	100	-20.7	30.0
13C6-Chrysene	Ave	1.629	1.307		80.3	100	-19.8	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.419		97.0	100	-3.0	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.639		93.6	100	-6.4	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.814		111	100	10.8	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.615		104	100	4.1	30.0
Perylene-d12	Ave	1.192	1.200		101	100	0.7	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.208		118	100	18.2	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.190		113	100	12.7	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.224		96.0	100	-4.0	30.0
Anthracene-d10	Ave	0.4257	0.3782		88.8	100	-11.2	25.0
13C6-Benzo(c)fluorene	Ave	0.5136	0.5074		98.8	100	-1.2	25.0
13C12-Benzo(j)fluoranthene	Ave	1.356	1.217		89.8	100	-10.2	25.0

# Resolution Check Report ( DFS SN: 3439 )

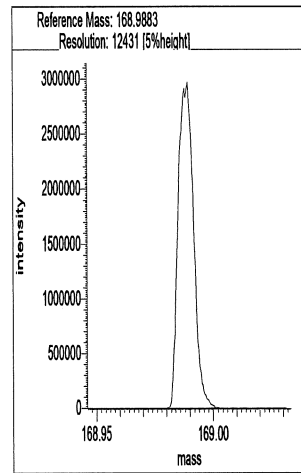
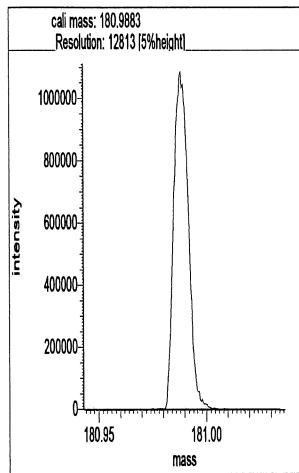
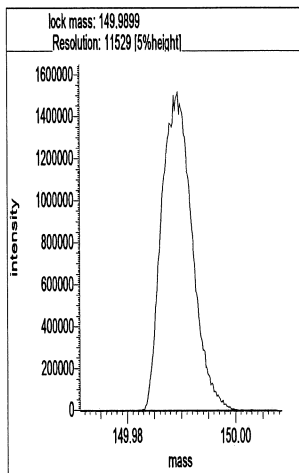
Date: 18 Jul 2024 21:24  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

## Segment 1

Lock mass 149.9899 [m/z] Resolution: 11529 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 12813 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 12431 [5%height]



## Segment 2

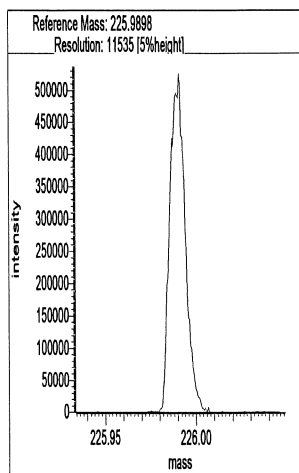
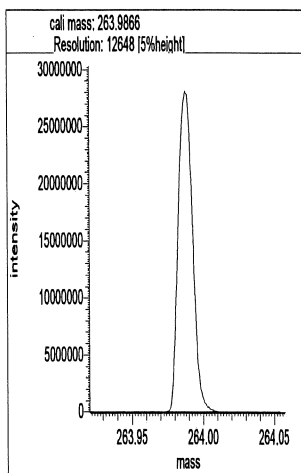
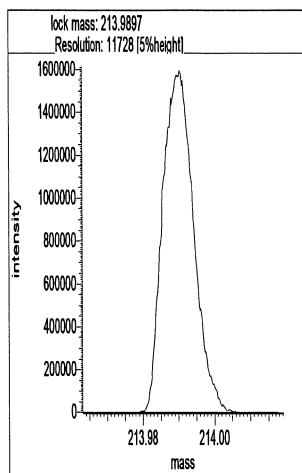
Lock mass 213.9897 [m/z] Resolution: 11728 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 12648 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 11535 [5%height]

d3240718r3



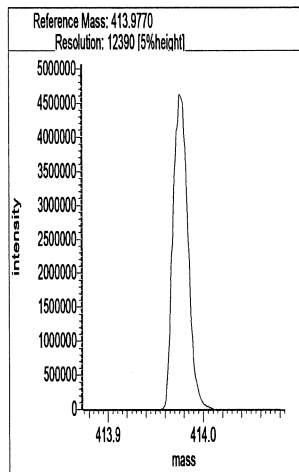
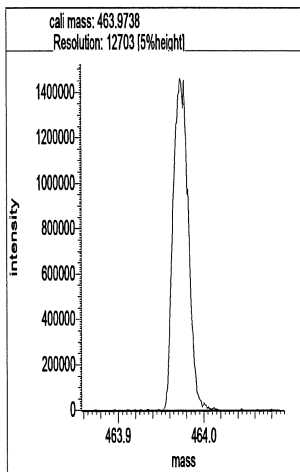
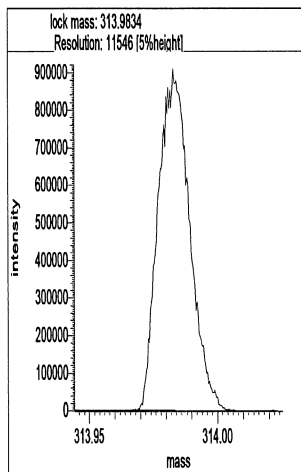


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11546 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12703 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 12390 [5%height]



## Reports

21:30:57: Peak matching procedure started  
21:30:57:  
21:30:58: Reference mass: 263.98656  
21:30:58: Sample mass: 414.0  
21:30:59:  
21:30:59: Finding reference mass  
21:31:00: Finding sample mass  
21:31:01:  
21:31:06: [1] 413.9755 amu, mean: 413.9755 SD: 0.16 mmu or: 0.38 ppm  
21:31:09: [2] 413.9753 amu, mean: 413.9754 SD: 0.16 mmu or: 0.38 ppm  
21:31:12: [3] 413.9752 amu, mean: 413.9754 SD: 0.13 mmu or: 0.32 ppm  
21:31:16: [4] 413.9753 amu, mean: 413.9754 SD: 0.11 mmu or: 0.27 ppm  
21:31:19: [5] 413.9754 amu, mean: 413.9754 SD: 0.27 mmu or: 0.64 ppm  
21:31:22: [6] 413.9760 amu, mean: 413.9755 SD: 0.26 mmu or: 0.64 ppm  
21:31:25: [7] 413.9757 amu, mean: 413.9755 SD: 0.30 mmu or: 0.73 ppm  
21:31:29: [8] 413.9760 amu, mean: 413.9756 SD: 0.33 mmu or: 0.80 ppm  
21:31:31: [9] 413.9761 amu, mean: 413.9756 SD: 0.33 mmu or: 0.79 ppm  
21:31:35: [10] 413.9759 amu, mean: 413.9756 SD: 0.31 mmu or: 0.76 ppm  
21:31:38: [11] 413.9755 amu, mean: 413.9756  
21:31:39:  
21:31:39: Stop requested. Please wait for procedure to finish.  
21:31:39:  
21:31:41:  
21:31:41: Peakmatching stopped

Signature

*mdp* 7/18/24

# Resolution Check Report ( DFS SN: 3439 )

Date: 19 Jul 2024 09:06  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

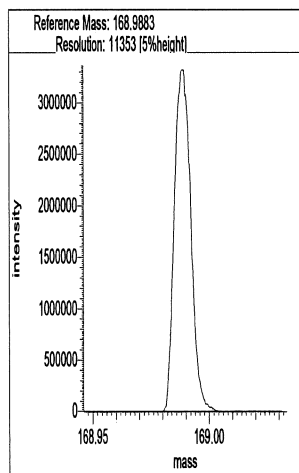
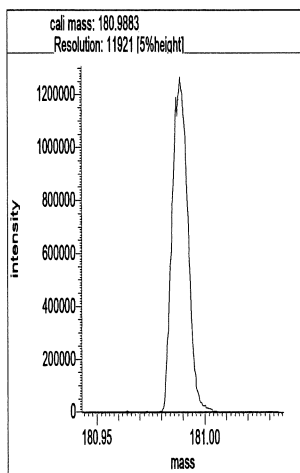
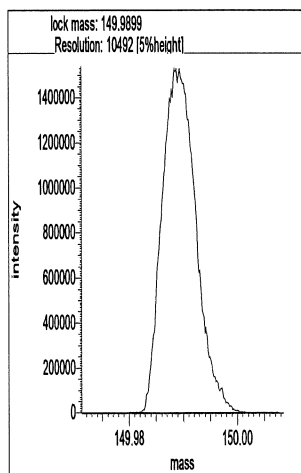
- d3240719r1

## Segment 1

Lock mass 149.9899 [m/z] Resolution: 10492 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 11921 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 11353 [5%height]

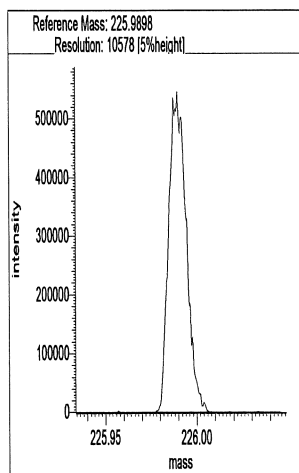
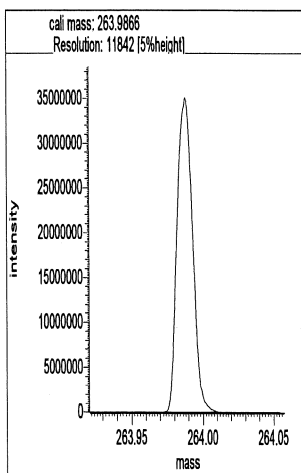
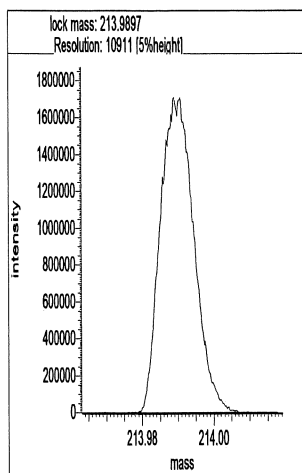


## Segment 2

Lock mass 213.9897 [m/z] Resolution: 10911 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11842 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 10578 [5%height]

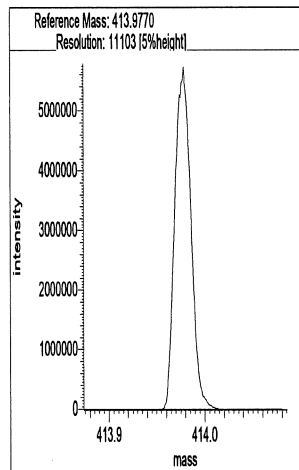
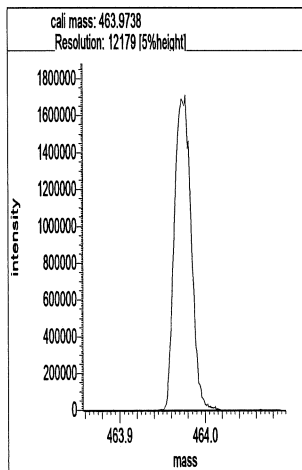
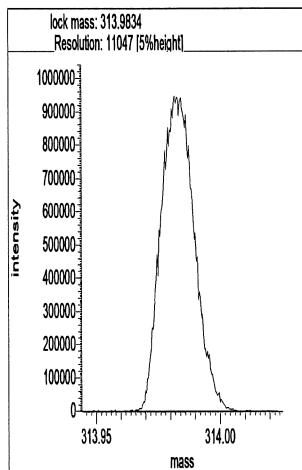


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11047 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12179 [5%height]

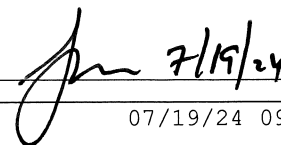
Ref. mass 413.9770 [m/z] Resolution: 11103 [5%height]



## Reports

09:16:35: Peak matching procedure started  
09:16:35:  
09:16:36: Reference mass: 263.98656  
09:16:36: Sample mass: 414.0  
09:16:37:  
09:16:37: Finding reference mass  
09:16:38: Finding sample mass  
09:16:39:  
09:16:44: [1] 413.9744 amu, mean: 413.9744 SD: 0.04 mmu or: 0.09 ppm  
09:16:47: [2] 413.9745 amu, mean: 413.9744 SD: 0.29 mmu or: 0.70 ppm  
09:16:51: [3] 413.9750 amu, mean: 413.9746 SD: 0.34 mmu or: 0.83 ppm  
09:16:54: [4] 413.9751 amu, mean: 413.9747 SD: 0.39 mmu or: 0.94 ppm  
09:16:57: [5] 413.9753 amu, mean: 413.9749 SD: 0.39 mmu or: 0.93 ppm  
09:17:00: [6] 413.9753 amu, mean: 413.9749 SD: 0.41 mmu or: 0.99 ppm  
09:17:03: [7] 413.9755 amu, mean: 413.9750 SD: 0.38 mmu or: 0.92 ppm  
09:17:06: [8] 413.9750 amu, mean: 413.9750 SD: 0.36 mmu or: 0.86 ppm  
09:17:10: [9] 413.9750 amu, mean: 413.9750 SD: 0.38 mmu or: 0.93 ppm  
09:17:13: [10] 413.9744 amu, mean: 413.9749 SD: 0.42 mmu or: 1.01 ppm  
09:17:16: [11] 413.9743 amu, mean: 413.9749  
09:17:16: Stop requested. Please wait for procedure to finish.  
09:17:16:  
09:17:19:  
09:17:19: Peakmatching stopped

Signature

7/19/24

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a_20240718214503.d				
Lims ID:	CCV				
Client ID:					
Sample Type:	CCV				
Inject. Date:	18-Jul-2024 21:47:00	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	140-0033572-001				
Operator ID:	Xcalibur_System	Instrument ID:	D3PAH		
Sublist:	chrom-EPA_23__PAH*sub1				
Method:	\\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA_23__PAH.m				
Limit Group:	HR - HRPAAH ICAL				
Last Update:	18-Jul-2024 23:16:48	Calib Date:	20-Jun-2024 01:09:00		
Integrator:	RTE				
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d				
Column 1 :	Restek-5Sil MS 25um ( 0.25 mm)		Det: F1(6.03 :27.99 )		
Process Host:	CTX1654				

Date: 18-Jul-2024 23:16:48

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:26	56763043		3.3746	85.3	85.3	0.006547	0.006547	85.34	
Naphthalene	11:26	136318699		1.2893	186.3	186.3	0.0159	0.0159	93.14	
D 13C6-2-Methylnaphthalene	13:48	27589370		1.6031	87.3	87.3	0.000757	0.000757	87.31	
2-Methylnaphthalene	13:48	69418927		1.2786	196.8	196.8	0.006935	0.006935	98.40	
D 13C6-Acenaphthylene	16:38	32530088		1.6520	99.9	99.9	0.001227	0.001227	99.90	
Acenaphthylene	16:39	87710974		2.3661	184.9	184.9	0.009057	0.009057	92.43	
* Acenaphthene-d10	17:13	19711374		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:20	20052106		0.9792	103.9	103.9	0.002990	0.002990	104	
Acenaphthene	17:20	48579133		1.2697	190.8	190.8	0.009533	0.009533	95.40	
D 13C6-Fluorene	19:36	19665005		0.8898	112.1	112.1	0.000754	0.000754	112	
Fluorene	19:36	49548517		1.2532	201.1	201.1	0.009868	0.009868	101	
D 13C6-Phenanthrene	24:57	28447637		0.5724	92.6	92.6	0.003946	0.003946	92.57	
Phenanthrene	24:57	64355337		1.1044	204.8	204.8	0.0127	0.0127	102	
\$ Anthracin-d10	25:10	20303055		0.4257	88.8	88.8	0.000902	0.000902	88.83	
D 13C6-Anthracene	25:17	22050868		0.4523	90.8	90.8	0.004994	0.004994	90.80	
Anthracene	25:17	61769229		1.3586	206.2	206.2	0.0136	0.0136	103	
D 13C6-Fluoranthrene	33:40	69479503		1.1994	107.9	107.9	0.0108	0.0108	108	
Fluoranthene	33:41	160480234		1.1513	200.6	200.6	0.006419	0.006419	100	
* Pyrene-d10	35:13	53686741		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:21	78969067		1.3512	108.9	108.9	0.009035	0.009035	109	
Pyrene	35:21	167539318		1.0652	199.2	199.2	0.006419	0.006419	99.59	
\$ 13C6-Benzo(c)fluorene	39:03	27242149		0.5136	98.8	98.8	0.003205	0.003205	98.80	
D 13C6-Benzo(a)anthracene	45:52	64213197		1.5189	79.3	79.3	0.005286	0.005286	79.34	
Benzo[a]anthracene	45:52	135413777		0.9739	216.5	216.5	0.0285	0.0285	108	
D 13C6-Chrysene	46:07	69639510		1.6287	80.2	80.2	0.004929	0.004929	80.25	
Chrysene	46:08	149030267		0.9815	218.0	218.0	0.0267	0.0267	109	
D 13C6-Benzo(b)fluoranthene	54:30	75585318		1.4621	97.0	97.0	0.000781	0.000781	97.03	
Benzo[b]fluoranthene	54:31	169501067		1.1249	199.4	199.4	0.002082	0.002082	99.68	
\$ 13C12-Benzo(j)fluoranthene	54:32	64839468		1.3558	89.8	89.8	0.005174	0.005174	89.75	
D 13C6-Benzo(k)fluoranthene	54:38	87331261		1.7507	93.6	93.6	0.000652	0.000652	93.62	
Benzo[k]fluoranthene	54:38	190312160		1.1271	193.3	193.3	0.001750	0.001750	96.67	
* Benzo(e)pyrene-d12	55:23	53281472		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:28	190885699		1.0013	197.3	197.3	0.001480	0.001480	98.63	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(e)pyrene	55:28	96645426		1.6368	110.8	110.8	0.001126	0.001126	111	
D 13C4-Benzo(a)pyrene	55:36	86029741		1.5508	104.1	104.1	0.001188	0.001188	104	
Benzo[a]pyrene	55:37	183208340		1.1130	191.3	191.3	0.001529	0.001529	95.67	
D Perylene-d12	55:48	63923141		1.1917	100.7	100.7	0.005222	0.005222	101	
Perylene	55:52	199797203		1.4307	218.5	218.5	0.001515	0.001515	109	
D 13C6-Indeno(1,2,3-cd)pyrene	57:56	64350241		1.0218	118.2	118.2	0.004730	0.004730	118	
Indeno[1,2,3-cd]pyrene	57:56	150530551		1.1249	207.9	207.9	0.001568	0.001568	104	
D 13C6-Dibenz(a,h)anthracene	58:00	63386595		1.0553	112.7	112.7	0.002987	0.002987	113	
Dibenz(a,h)anthracene	58:00	150873860		1.1314	210.4	210.4	0.001289	0.001289	105	
D 13C12-Benzo(ghi)perylene	58:23	65234050		1.2749	96.0	96.0	0.000465	0.000465	96.03	
Benzo[g,h,i]perylene	58:24	166406444		1.2838	198.7	198.7	0.001290	0.001290	99.35	

## QC Flag Legend

Processing Flags

## Reagents:

61HRPAHCS5a\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d  
Lims ID: CCV  
Client ID:  
Sample Type: CCV  
Inject. Date: 18-Jul-2024 21:47:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033572-001  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 18-Jul-2024 23:16:48 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1654

First Level Reviewer: Q9DB

Date: 18-Jul-2024 23:16:48

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:26	11:26	0	0.664	56763043	19913965	619	1547	32171		
Naphthalene											
128.0626	11:26	11:26	0	1.000	136318699	48775320	1635	4087	29832		
13C6-2-Methylnaphthalene											
148.0984	13:48	13:48	0	0.802	27589370	13443565	34	85	395399		
2-Methylnaphthalene											
142.0783	13:48	13:48	0	1.000	69418927	34958264	477	1192	73288		
13C6-Acenaphthylene											
158.0828	16:38	16:38	0	0.967	32530088	12093676	57	142	212170		
Acenaphthylene											
152.0626	16:39	16:39	0	1.000	87710974	32825066	614	1535	53461		
Acenaphthene-d10											
164.1404	17:13	17:13	0		19711374	7002480	23	57	304456		
13C6-Acenaphthene											
160.0984	17:20	17:20	0	1.007	20052106	7162882	82	205	87352		E
Acenaphthene											
154.0783	17:20	17:20	0	1.000	48579133	17841997	347	867	51418		
13C6-Fluorene											
172.0984	19:36	19:36	0	1.139	19665005	5919364	19	47	311546		E
Fluorene											
166.0783	19:36	19:36	0	1.000	49548517	15610746	293	732	53279		
13C6-Phenanthrene											
184.0984	24:57	24:57	0	0.709	28447637	6848697	99	247	69179		
Phenanthrene											
178.0783	24:57	24:57	0	1.000	64355337	16131721	383	957	42119		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:10	25:10	0	0.715	20303055	4745033	17	42	279120		
13C6-Anthracene											
184.0984	25:17	25:17	0	0.718	22050868	5164698	99	247	52169		
Anthracene											
178.0783	25:17	25:17	0	1.000	61769229	14769545	383	957	38563		
13C6-Fluoranthrene											
208.0984	33:40	33:40	0	0.956	69479503	14614058	566	1415	25820		E
Fluoranthene											
202.0783	33:41	33:41	0	1.000	160480234	34453682	432	1080	79754		
Pyrene-d10											
212.1404	35:13	35:13	0		53686741	10935020	42	105	260358		
13C3-Pyrene											
205.0883	35:21	35:21	0	1.004	78969067	15795343	534	1335	29579		E
Pyrene											
202.0783	35:21	35:21	0	1.000	167539318	33768925	432	1080	78169		
13C6-Benzo(c)fluorene											
222.1134	39:03	39:03	0	0.705	27242149	5189168	72	180	72072		
13C6-Benzo(a)anthracene											
234.1140	45:52	45:52	0	1.303	64213197	11715309	596	1490	19657		
Benzo[a]anthracene											
228.0939	45:52	45:52	0	1.000	135413777	26033499	1301	3252	20010		
13C6-Chrysene											
234.1140	46:07	46:07	0	1.310	69639510	12428781	596	1490	20854		
Chrysene											
228.0939	46:08	46:08	0	1.000	149030267	27759907	1301	3252	21337		
13C6-Benzo(b)fluoranthene											
258.1140	54:30	54:30	0	0.984	75585318	21438444	85	212	252217		
Benzo[b]fluoranthene											
252.0939	54:31	54:31	0	1.000	169501067	49546709	201	502	246501		
13C12-Benzo(j)fluoranthene											
264.1336	54:32	54:32	0	0.984	64839468	17535165	521	1302	33657		
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:38	0	0.986	87331261	25446380	85	212	299369		
Benzo[k]fluoranthene											
252.0939	54:38	54:38	0	1.000	190312160	55081941	201	502	274040		
Benzo(e)pyrene-d12											
264.1692	55:23	55:23	0		53281472	18559190	462	1155	40171		
Benzo[e]pyrene											
252.0939	55:28	55:28	0	1.000	190885699	68695259	201	502	341767		
13C4-Benzo(e)pyrene											
256.1073	55:28	55:28	0	1.002	96645426	33875433	137	342	247266		E
13C4-Benzo(a)pyrene											
256.1073	55:36	55:36	0	1.004	86029741	29506283	137	342	215374		E

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:37	55:37	0	1.000	183208340	61723904	201	502	307084		
Perylene-d12											
264.1692	55:48	55:48	0	1.007	63923141	23163150	462	1155	50137		E
Perylene											
252.0939	55:52	55:52	0	1.001	199797203	73964032	201	502	367980		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:56	57:56	0	1.046	64350241	22787017	359	897	63474		E
Indeno[1,2,3-cd]pyrene											
276.0939	57:56	57:56	0	1.000	150530551	57386425	161	402	356437		
13C6-Dibenz(a,h)anthracene											
284.1296	58:00	58:00	0	1.047	63386595	23654823	234	585	101089		E
Dibenz(a,h)anthracene											
278.1096	58:00	58:00	0	1.000	150873860	54622047	138	345	395812		
13C12-Benzo(ghi)perylene											
288.1342	58:23	58:23	0	1.054	65234050	24266474	44	110	551511		
Benzo[g,h,i]perylene											
276.0939	58:24	58:24	0	1.000	166406444	56476340	161	402	350785		

### QC Flag Legend

Processing Flags

### Reagents:

61HRPAHCS5a\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a 20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

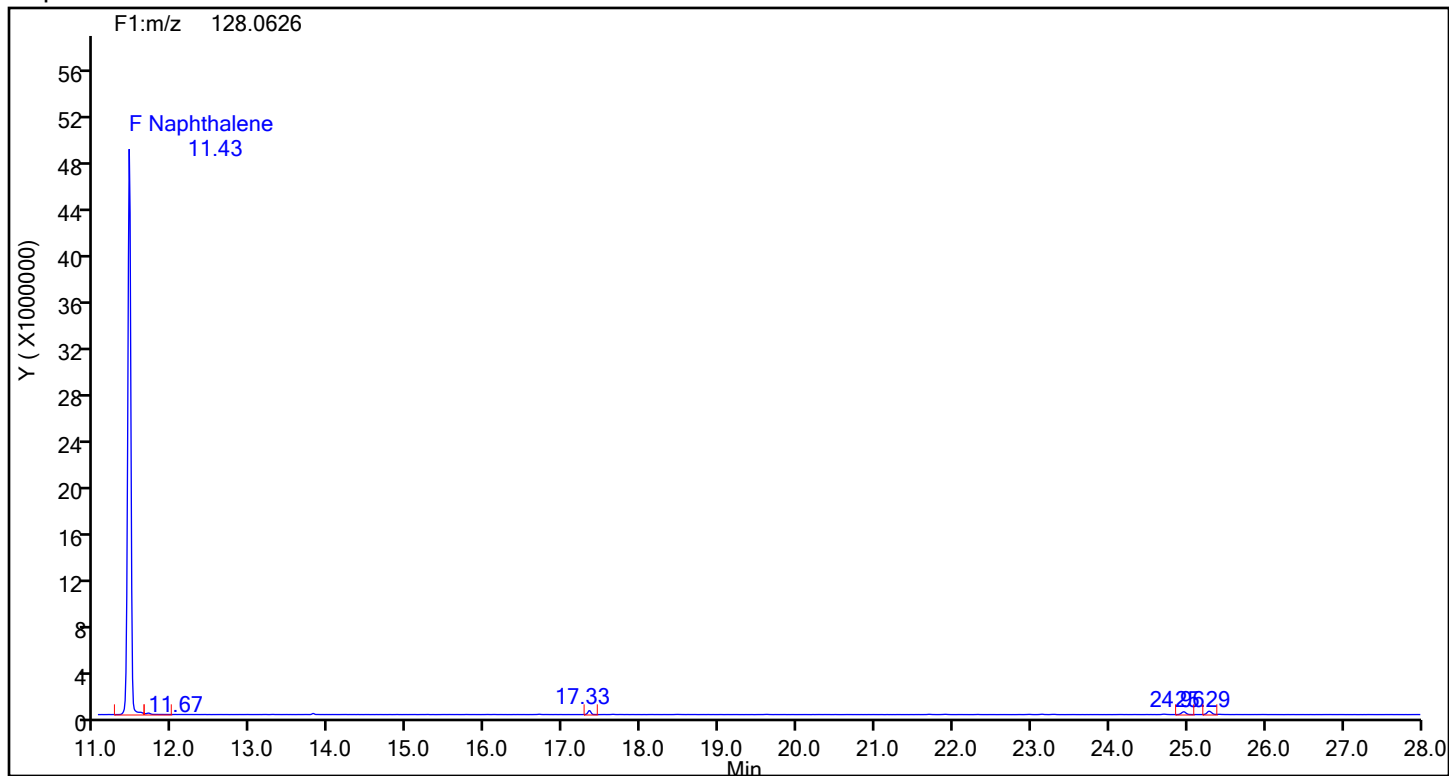
Worklist#: 88945

Sample Line#: 1

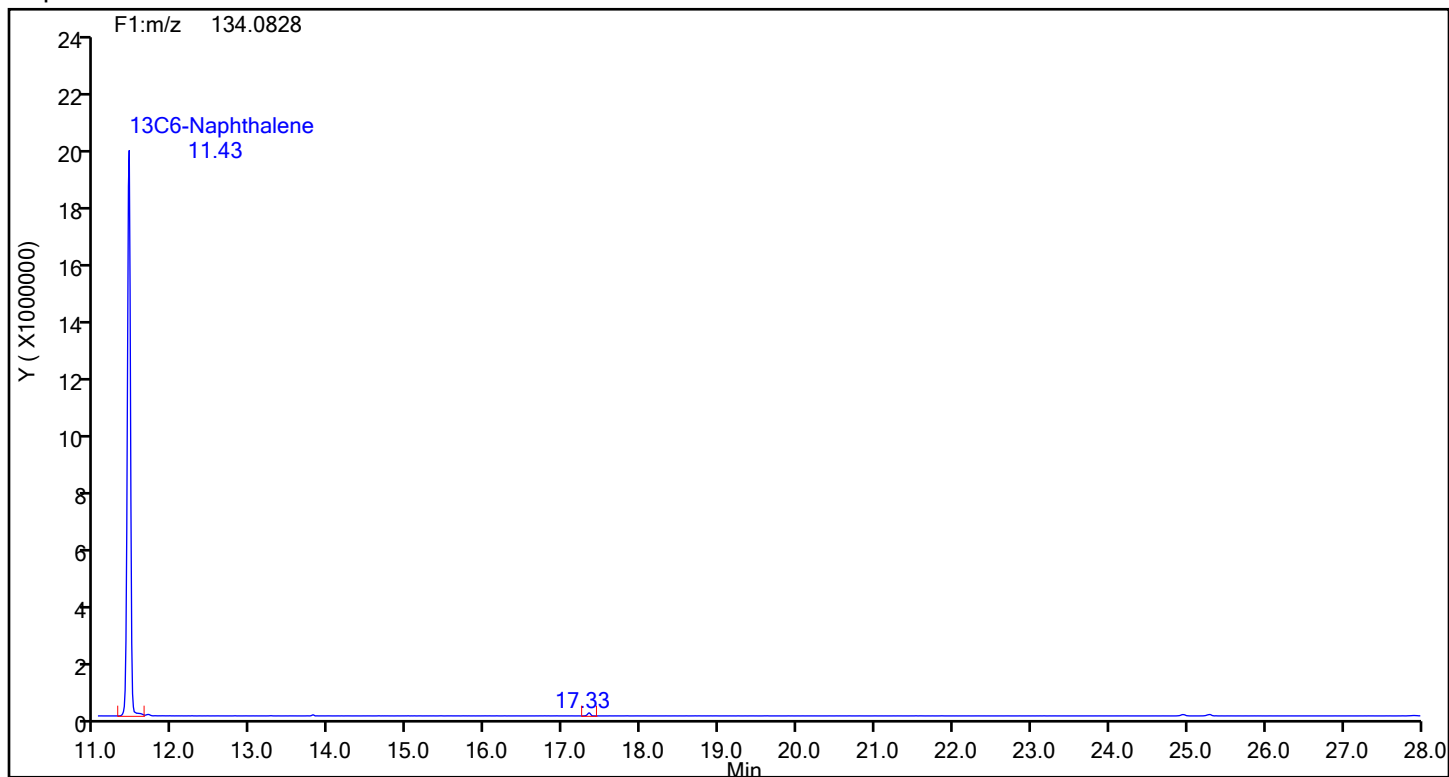
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Naphthalene



## Naphthalene Standards



Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a 20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

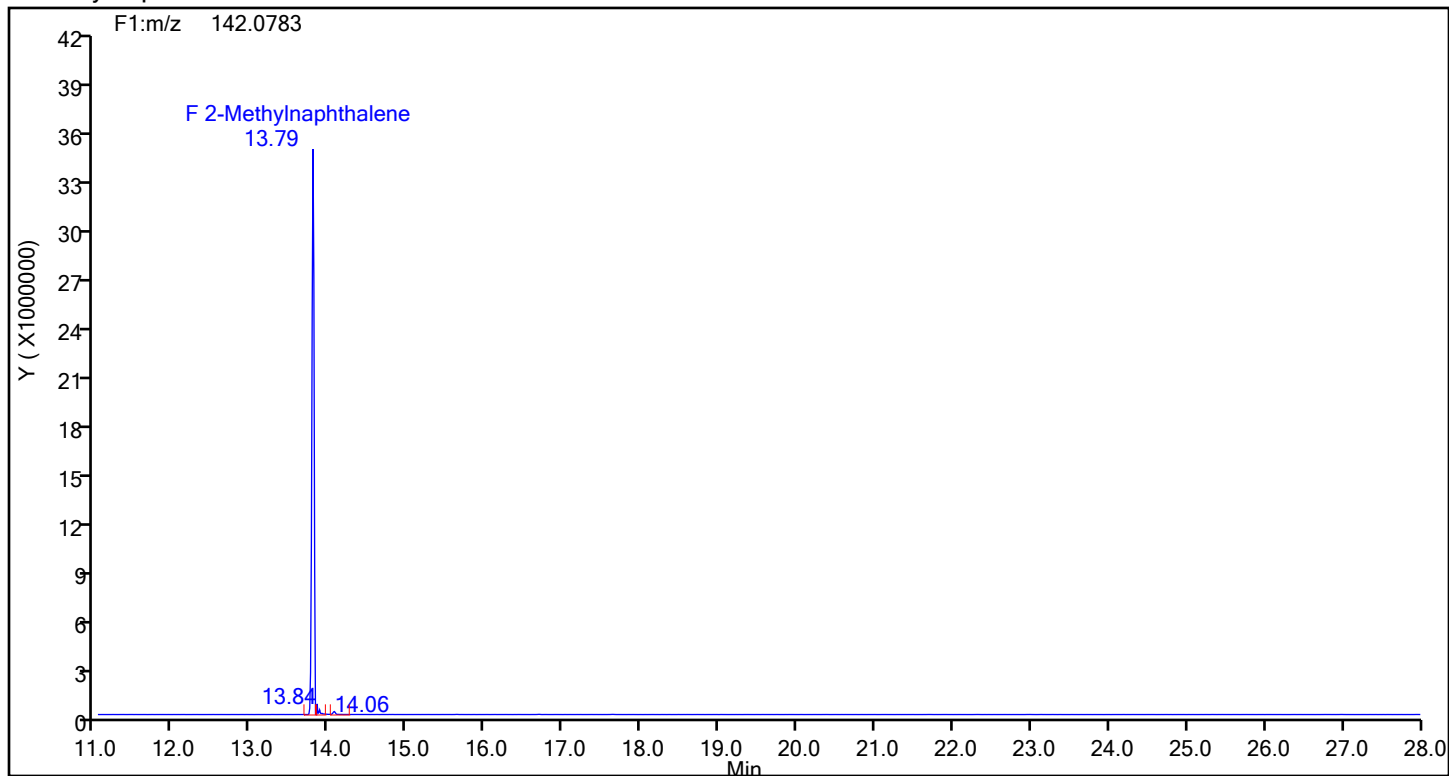
Worklist#: 88945

Sample Line#: 1

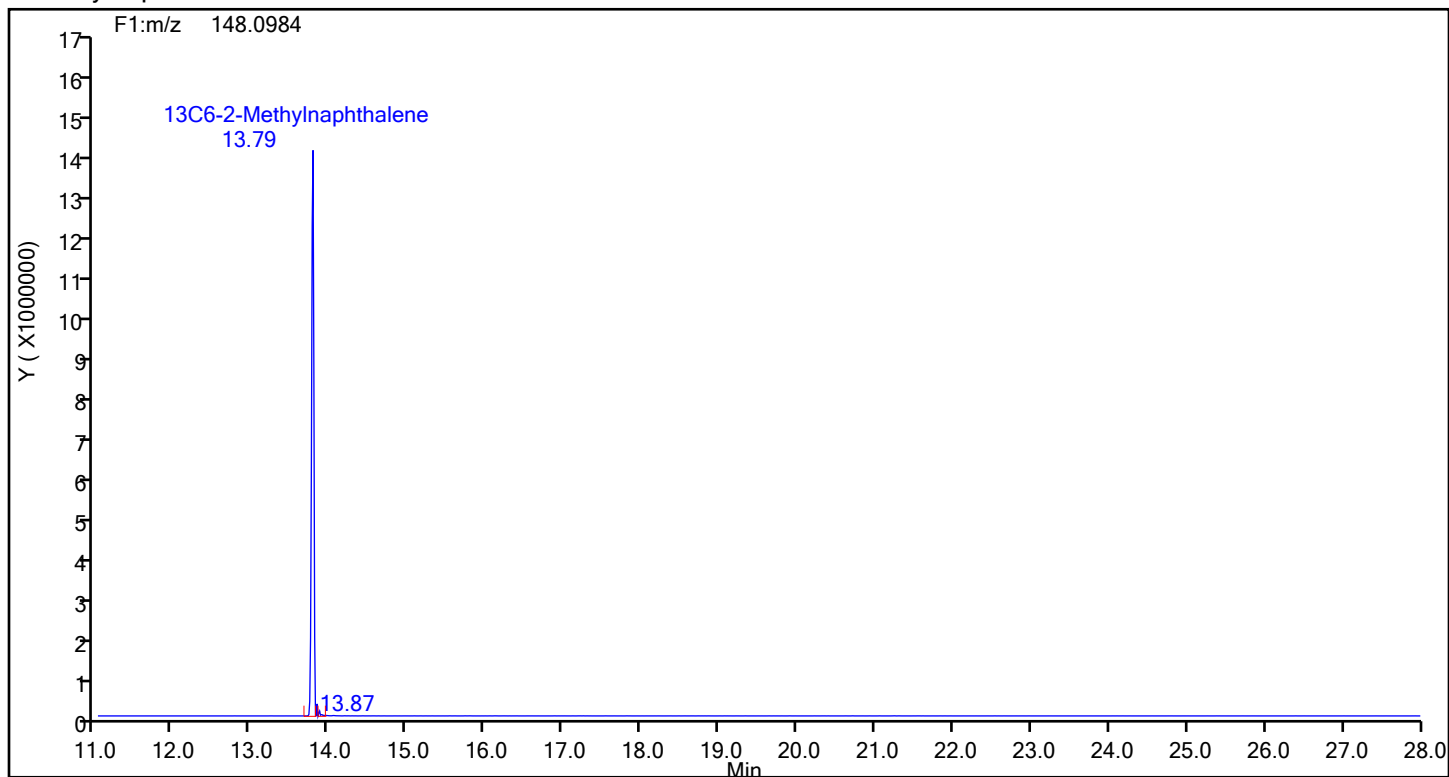
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## 2-Methylnaphthalene



## 2-Methylnaphthalene Standards



## Eurofins Knoxville

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Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

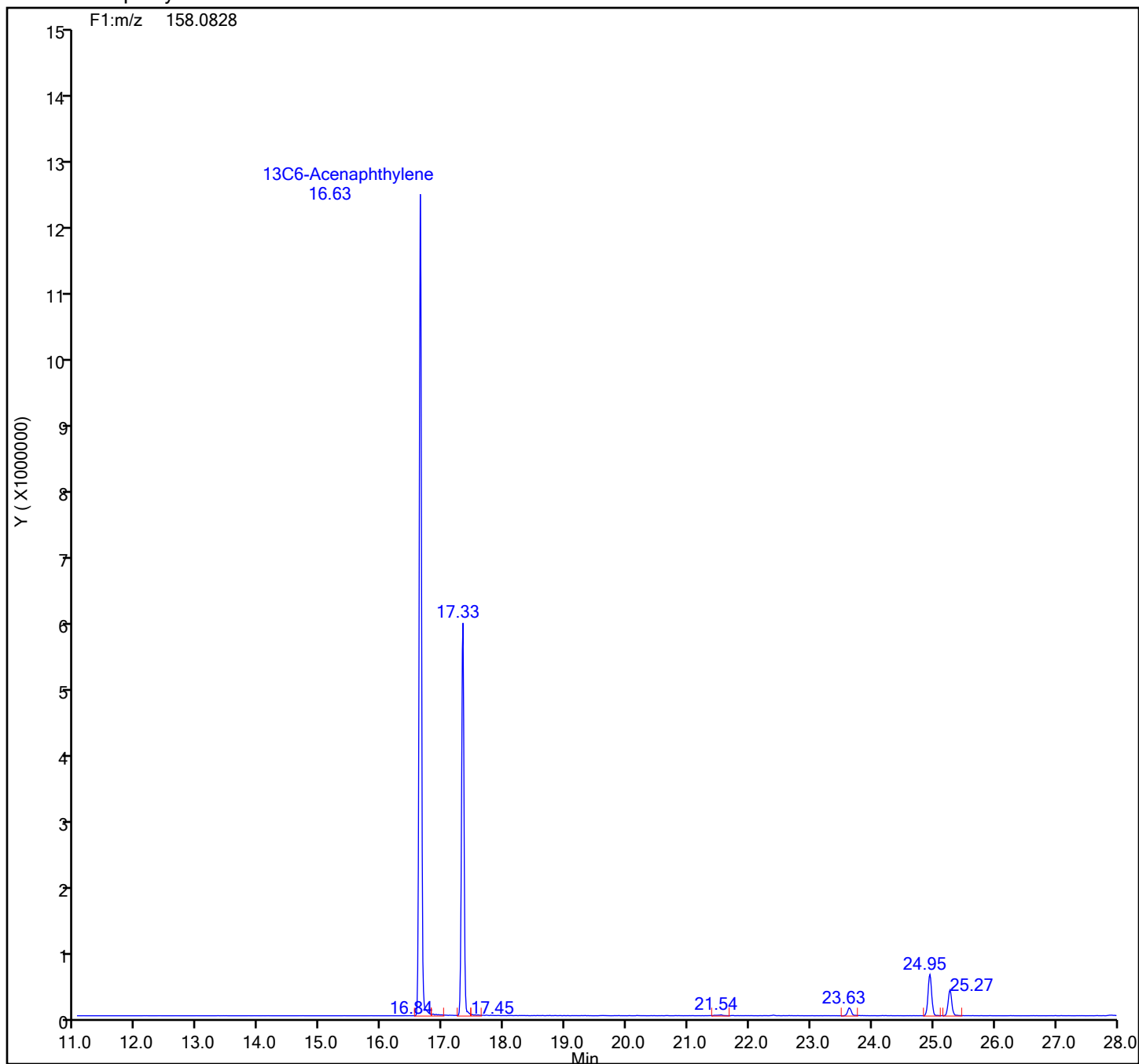
Worklist#: 88945

Sample Line#: 1

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## 13C6-Acenaphthylene Standards



Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a 20240718214503.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur\_System

Limit Group: HR - HRPAAH ICAL

Sample Line#: 1

Sample Line#: 1

Column Dia: 0.25 mm

Chromatogram showing peaks for F Acenaphthylene. The x-axis represents time in minutes (Min) from 11.0 to 28.0. The y-axis represents intensity (Y (X1000000)) from 0 to 39. The peaks are labeled with their retention times: 16.64, 17.33, 24.96, and 25.29. The peak at 16.64 is the most intense, reaching approximately 33 on the y-axis.

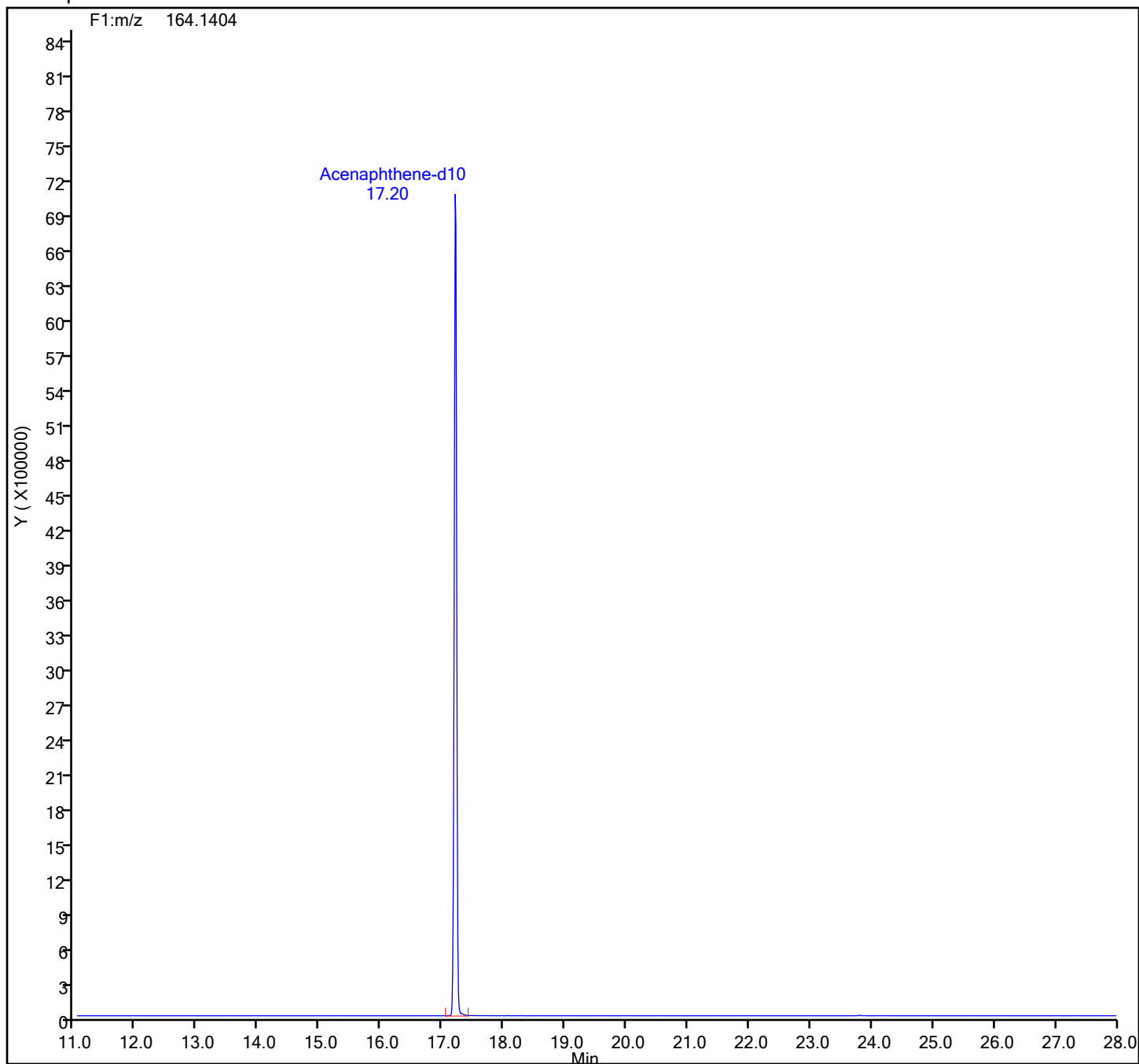
Retention Time (Min)	Intensity (Y (X1000000))
16.64	~33
17.33	~14
24.96	~3
25.29	~2

Chromatogram showing a major peak at 11.43 minutes labeled  $^{13}\text{C}_6\text{-Naphthalene}$  and a minor peak at 17.33 minutes. The y-axis is Y (X1000000) and the x-axis is Min. The title is F1:m/z 134.0828.

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d  
Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88945 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene-d10 Standards



Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a 20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

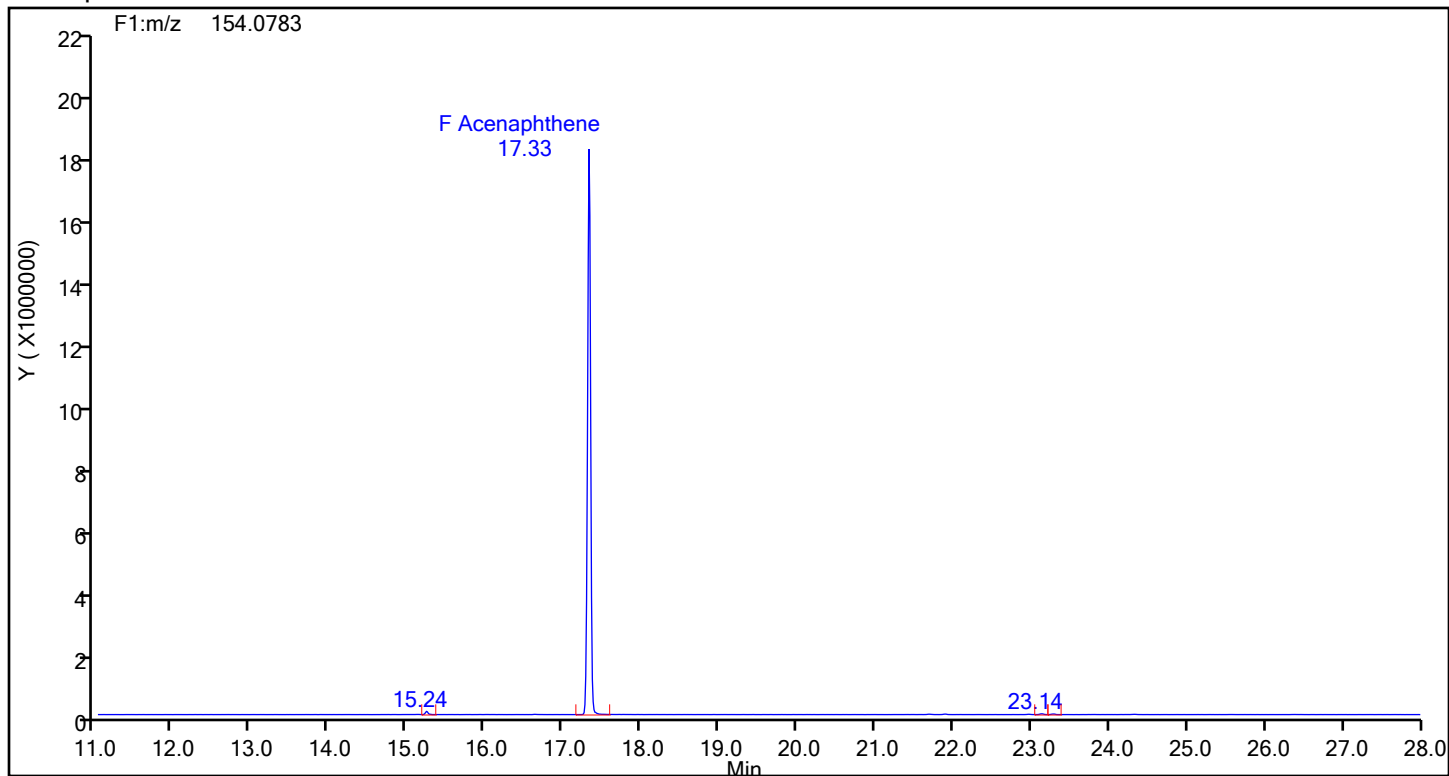
Worklist#: 88945

Sample Line#: 1

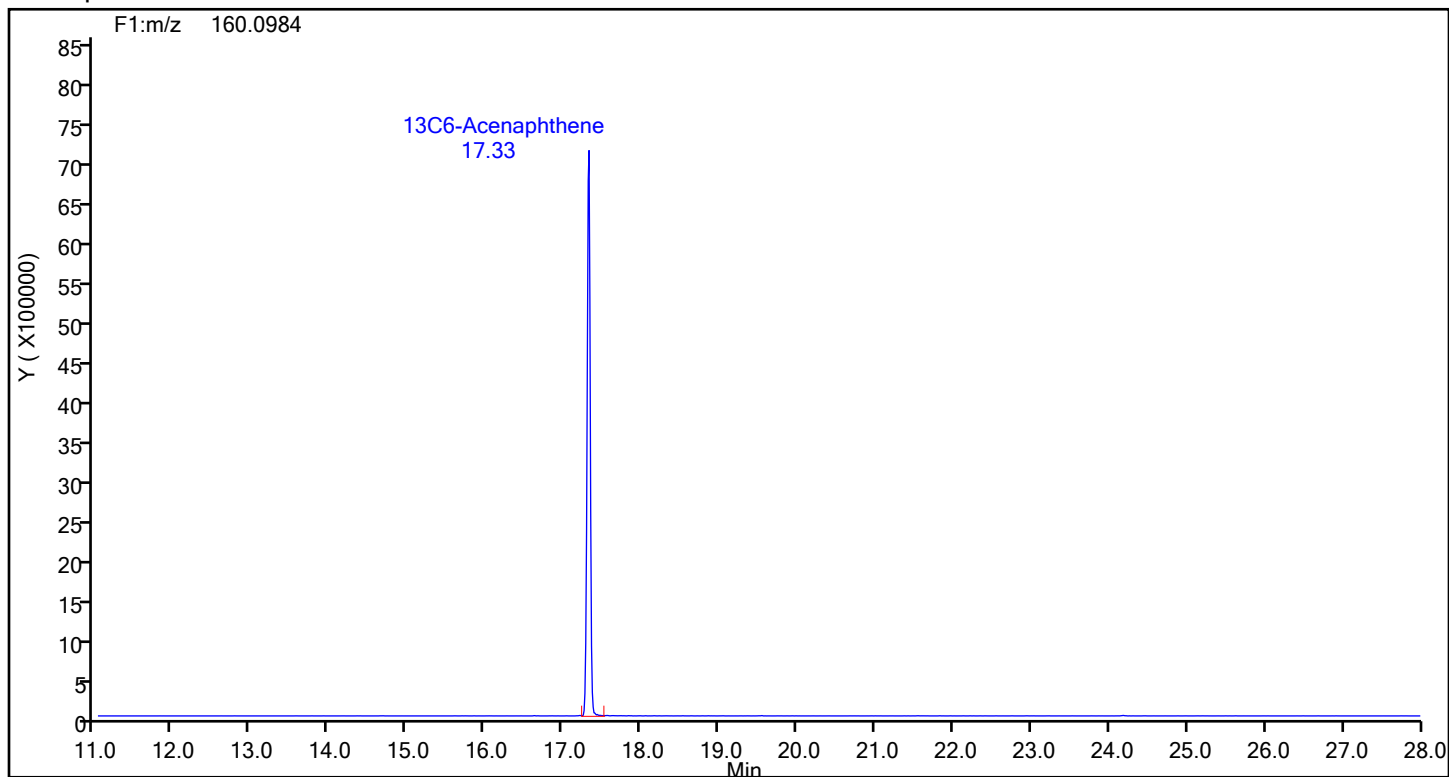
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthene



## Acenaphthene Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

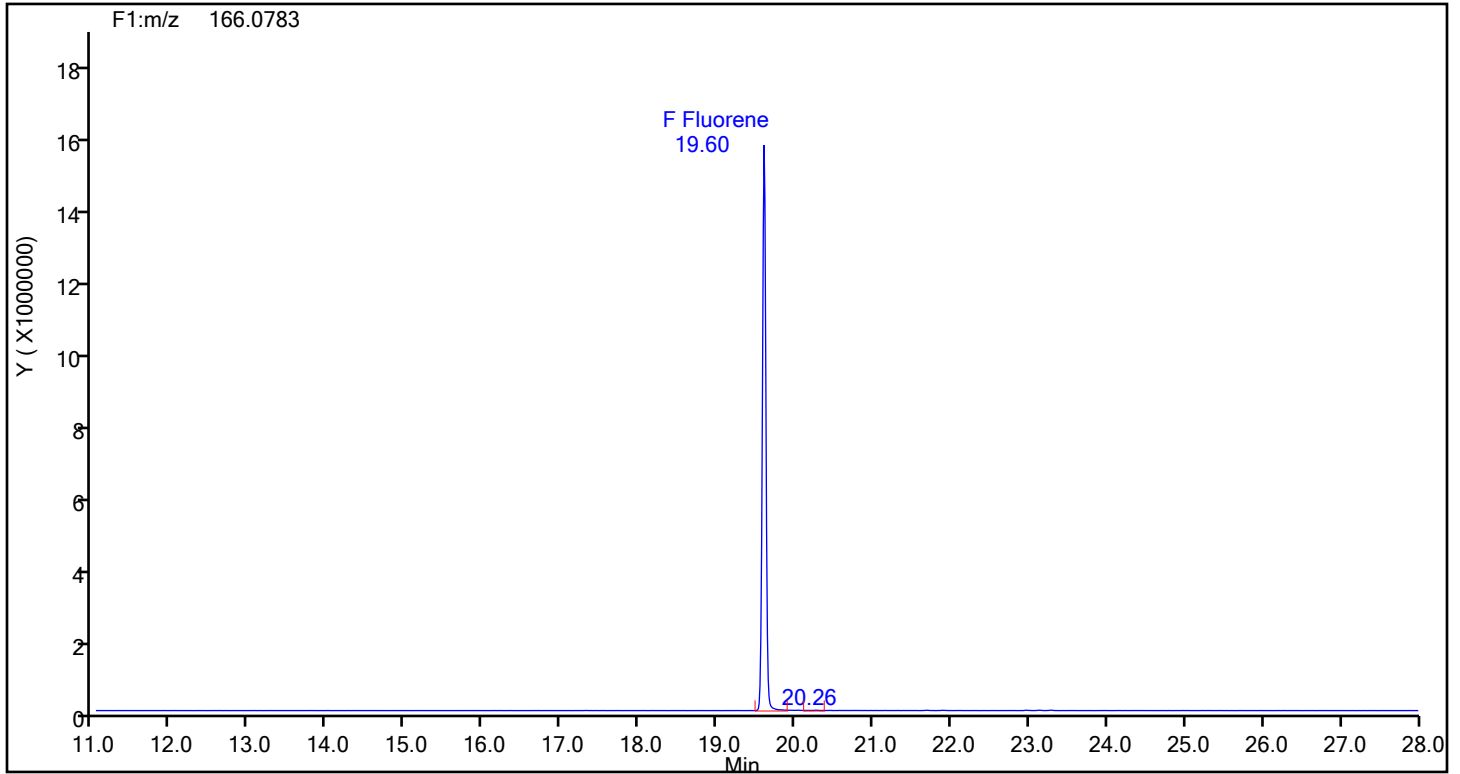
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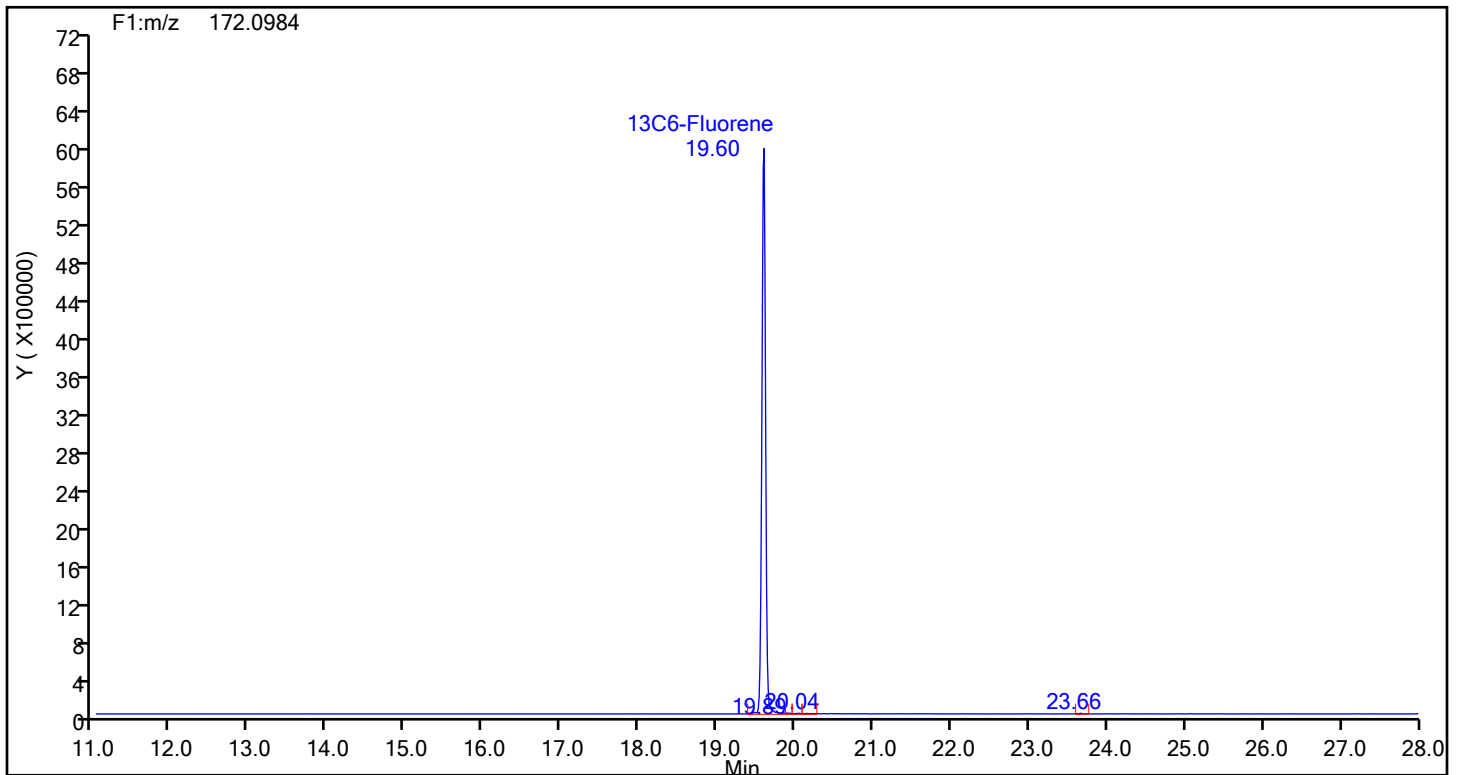
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Fluorene



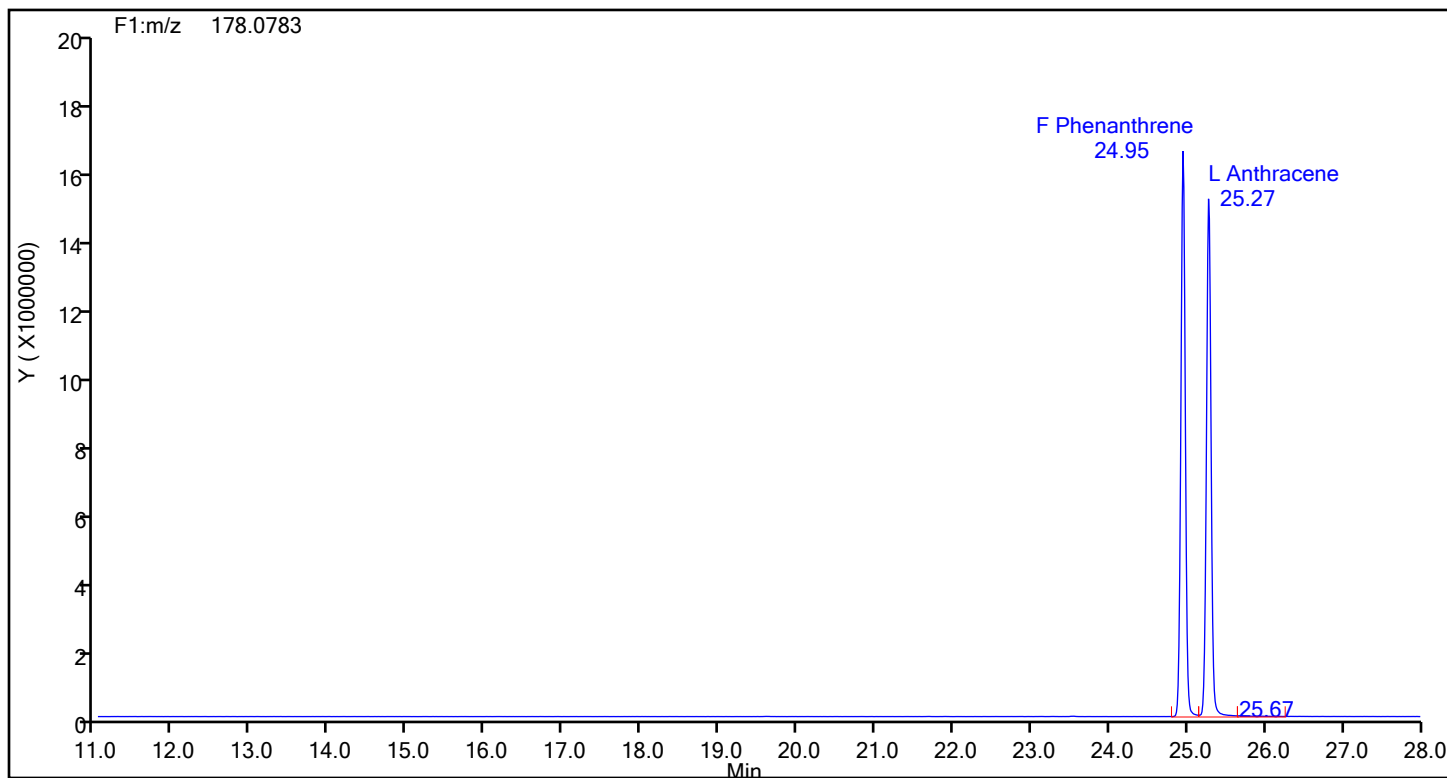
## Fluorene Standards



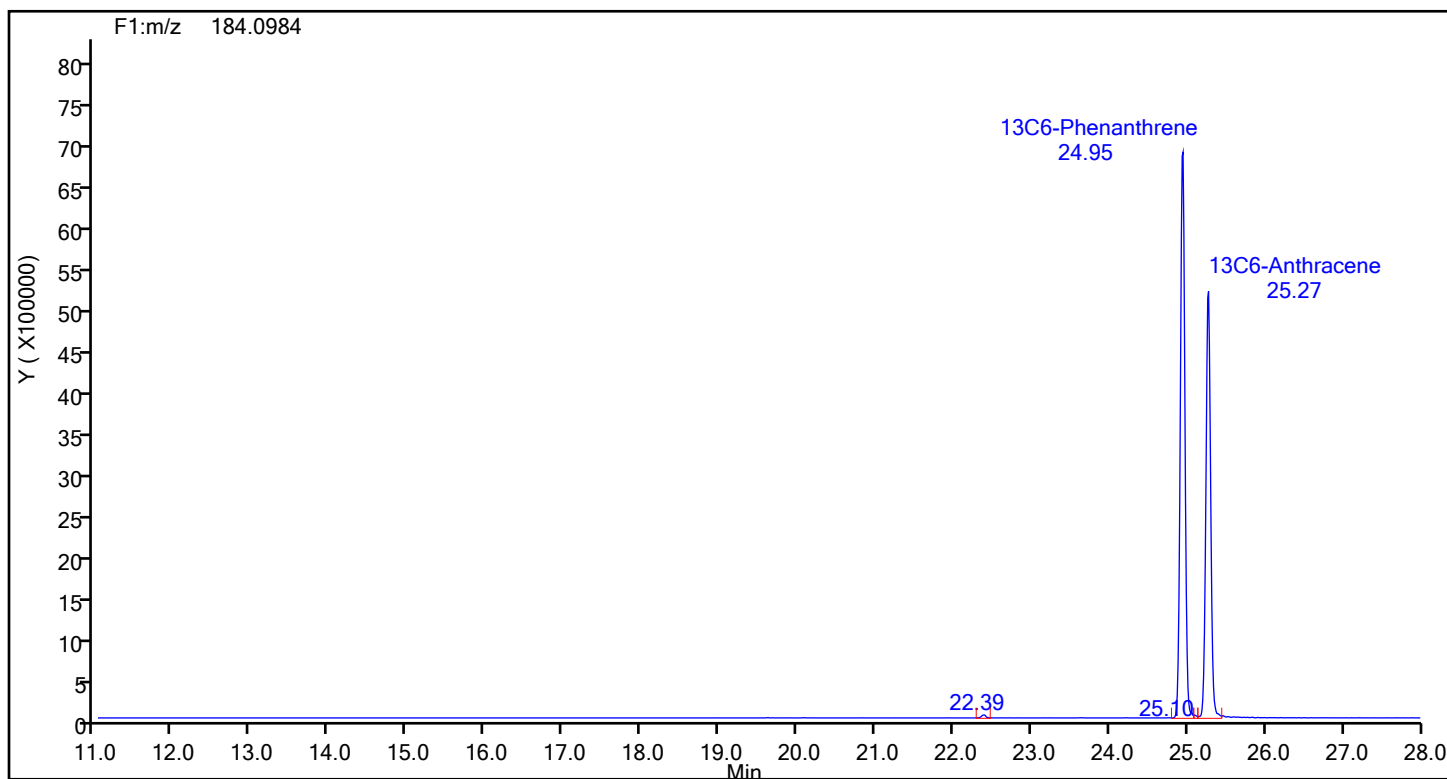
## Eurofins Knoxville

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Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88945 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Phenanthrene



## Phenanthrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a 20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

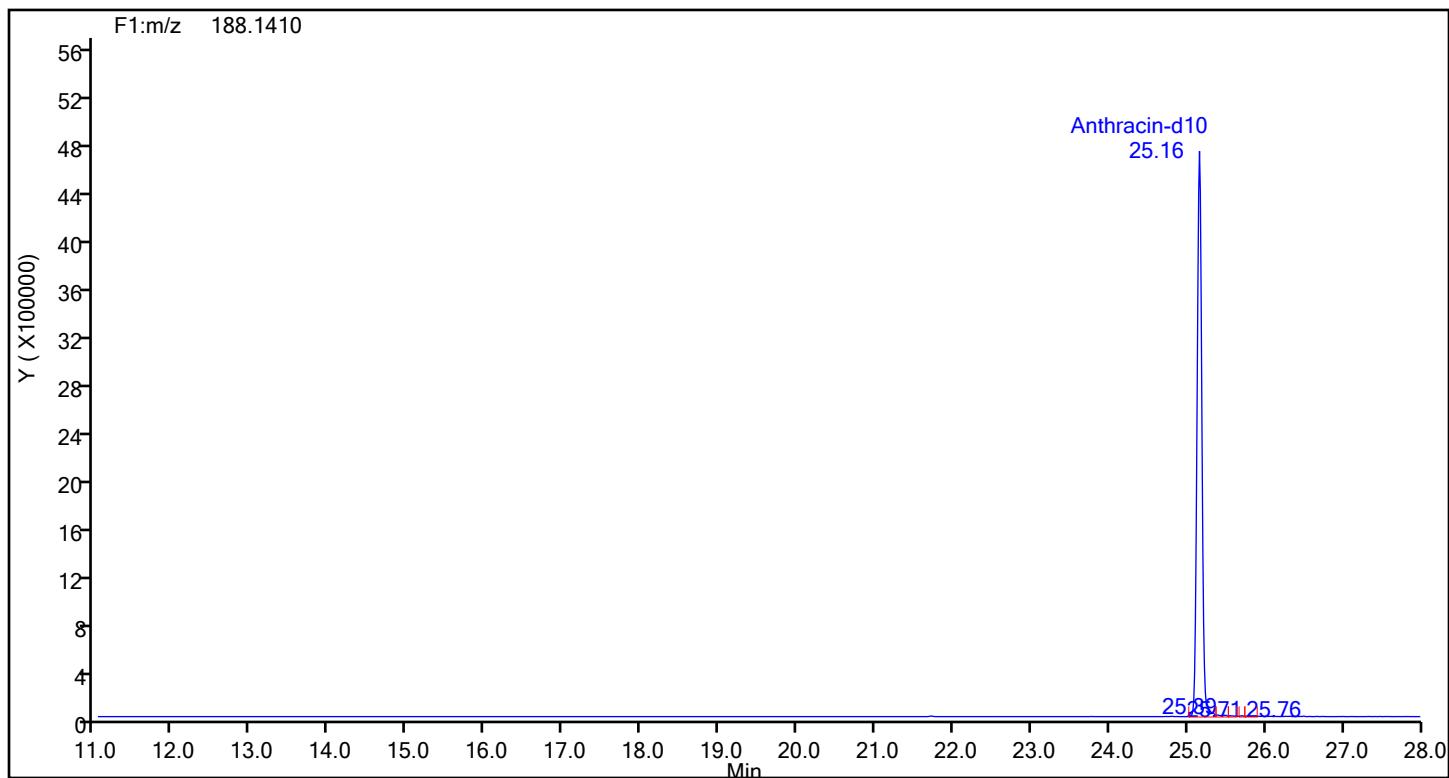
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Sample Line#: 1

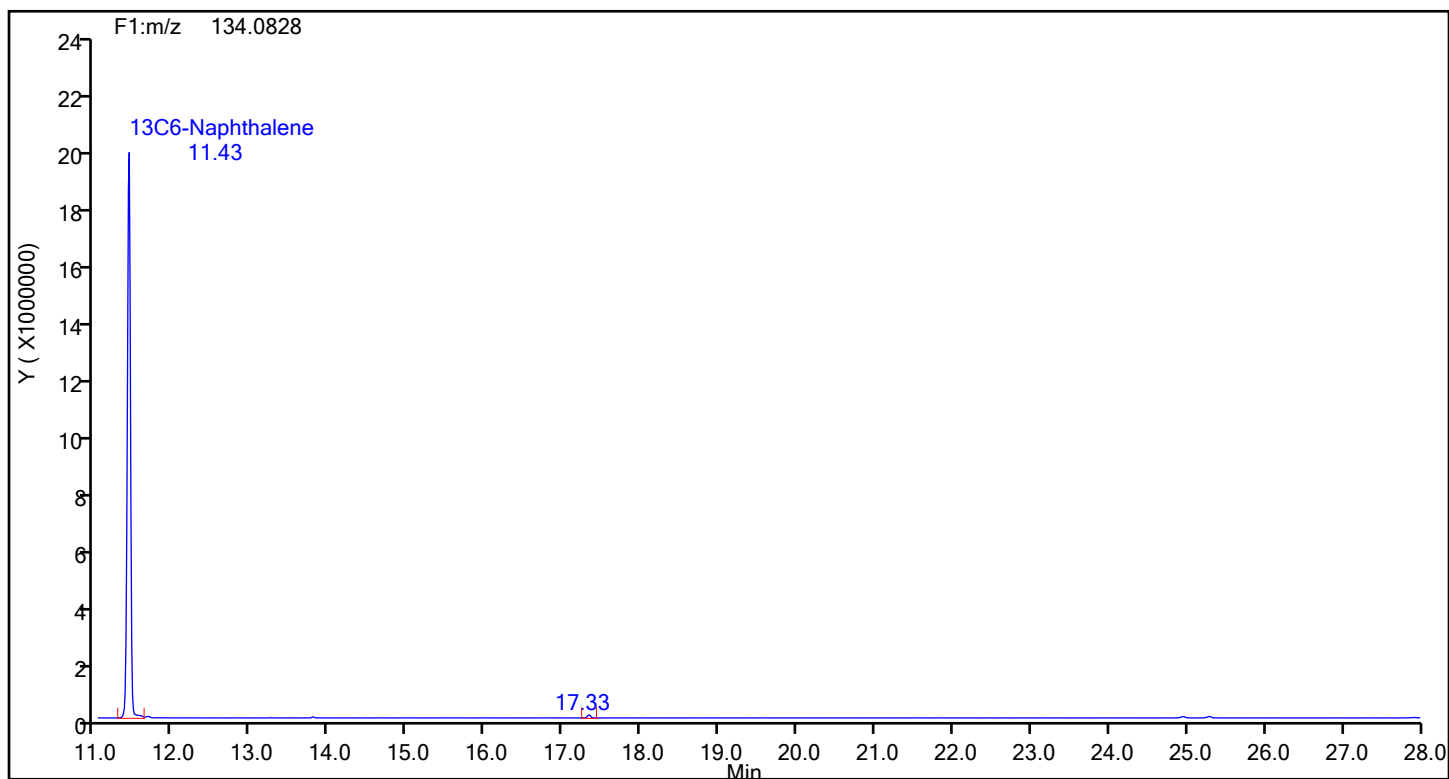
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Anthracin-d10



### Anthracin-d10 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

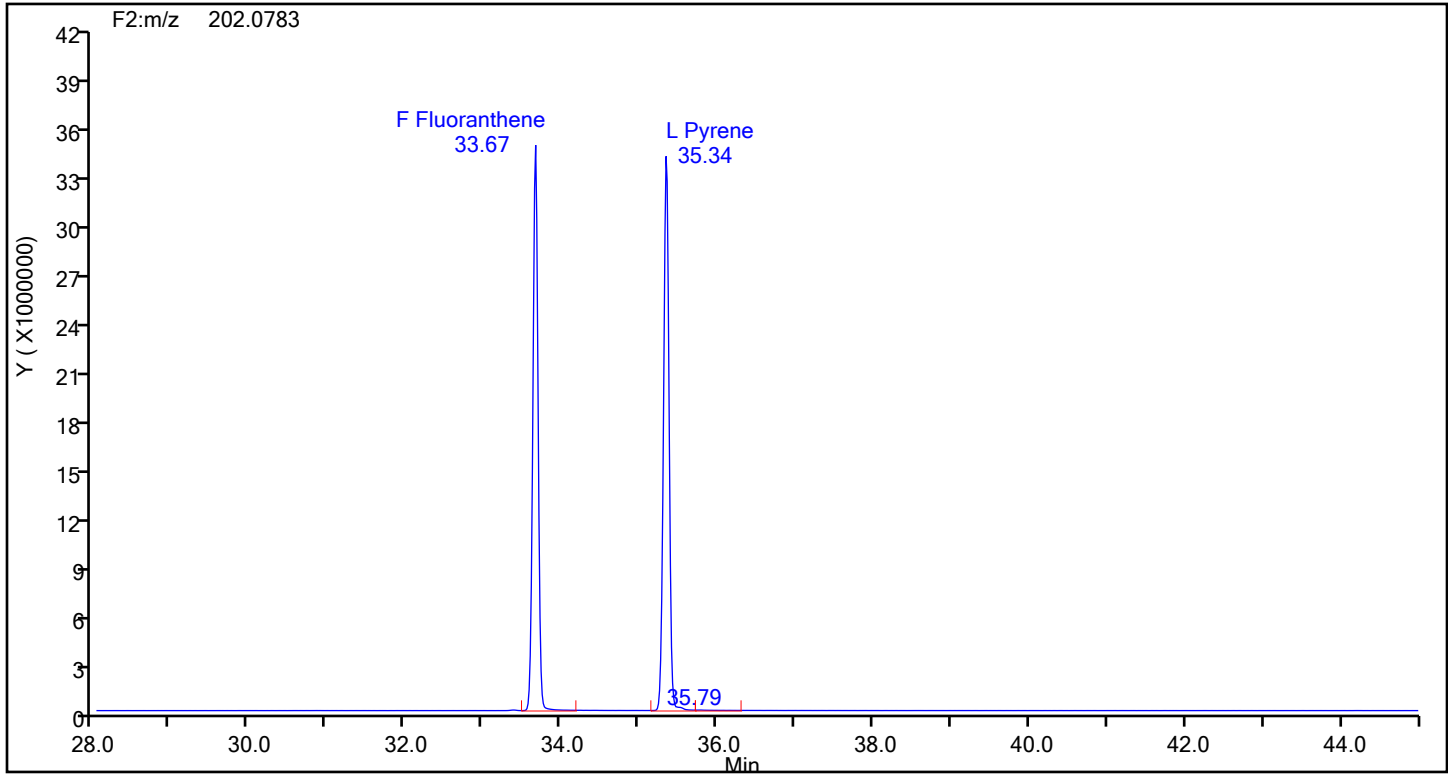
Worklist#: 88945

Sample Line#: 1

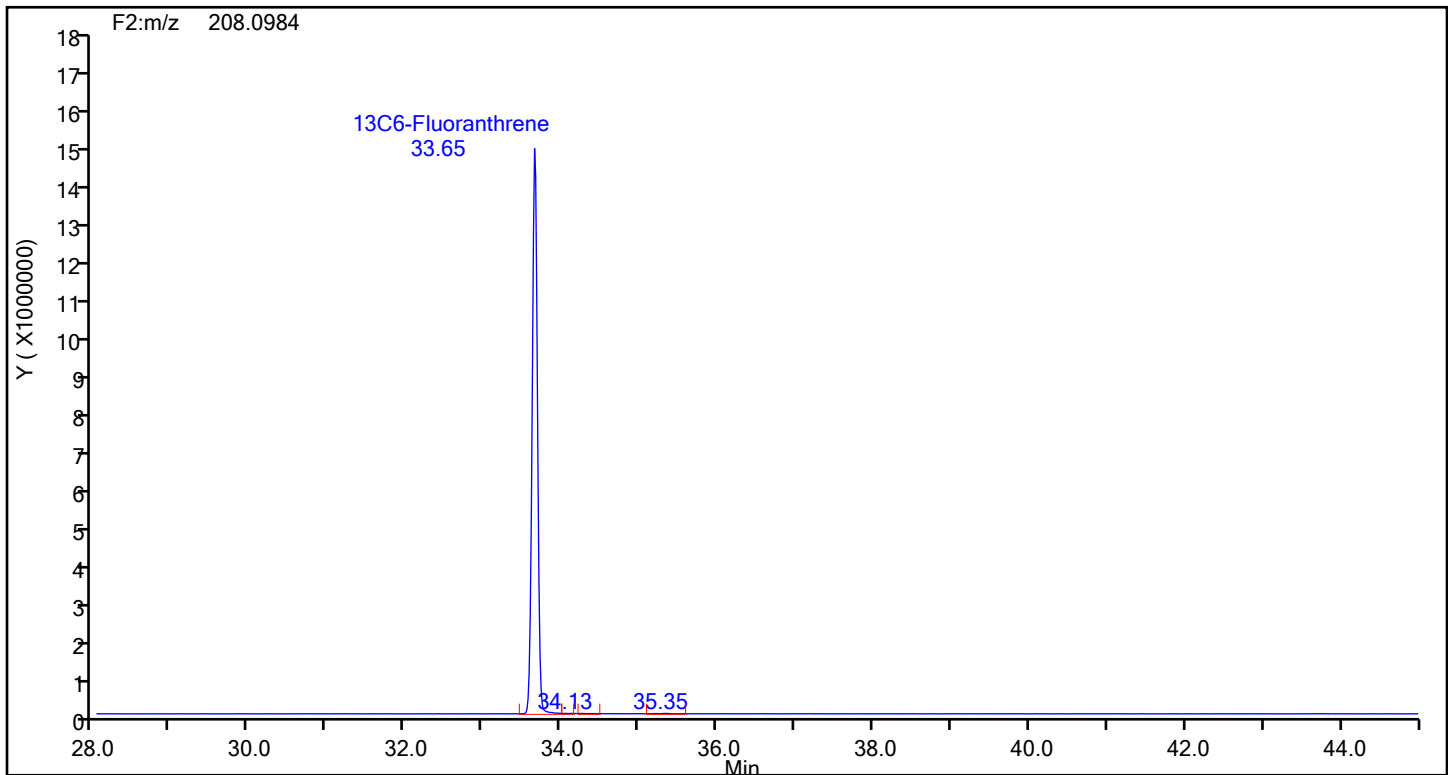
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Fluoranthene



## Fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

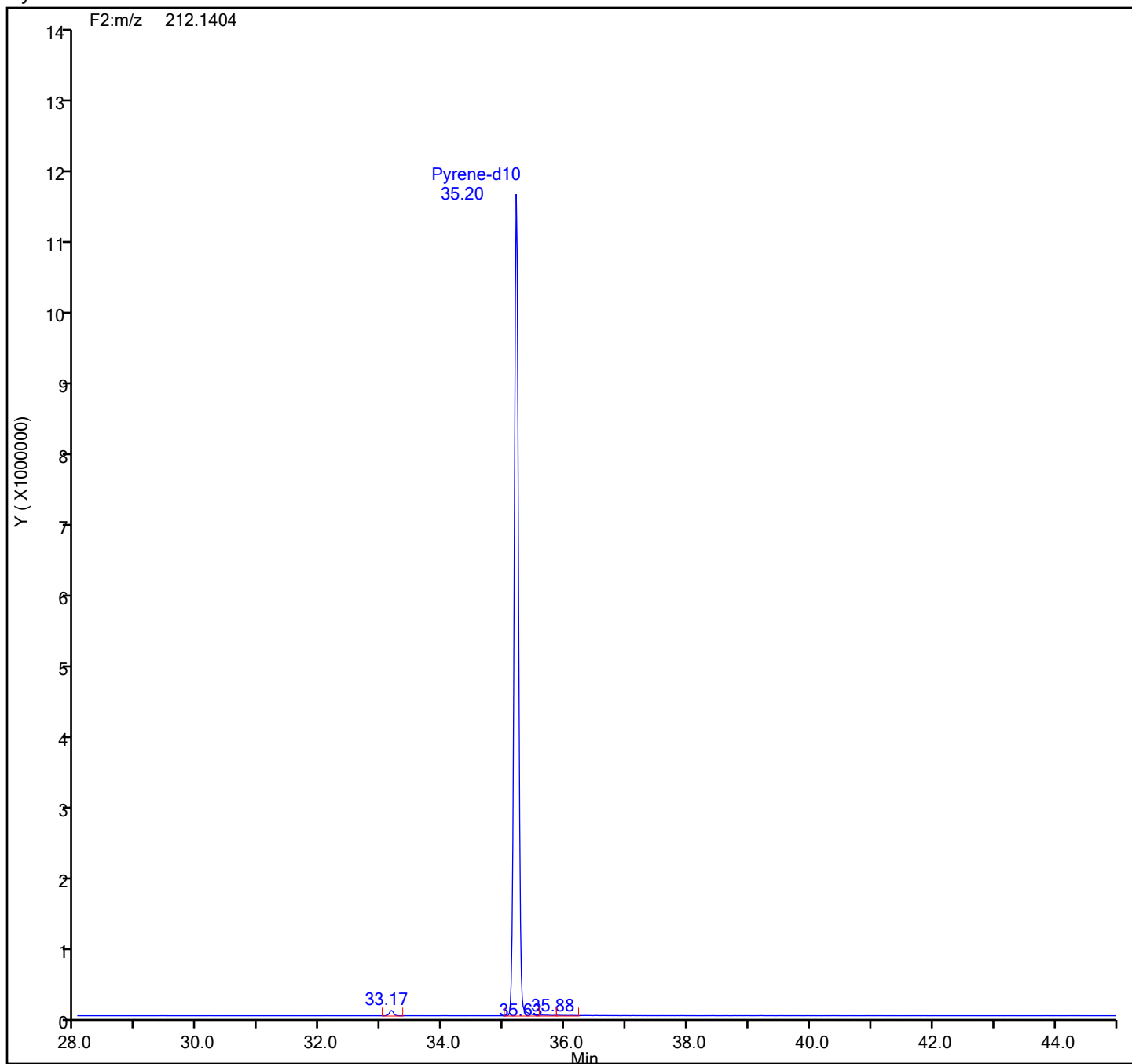
Worklist#: 88945

Sample Line#: 1

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Pyrene-d10 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

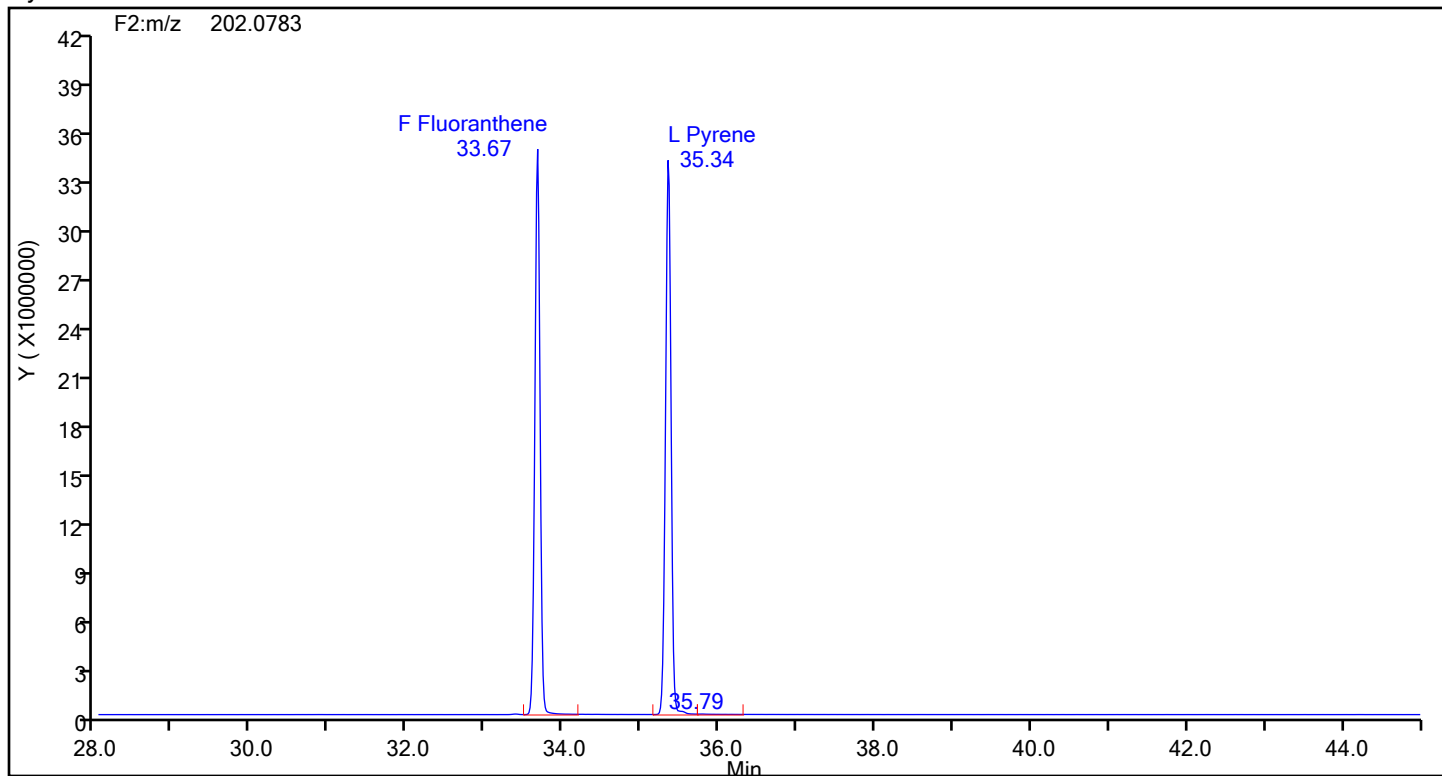
Worklist#: 88945

Sample Line#: 1

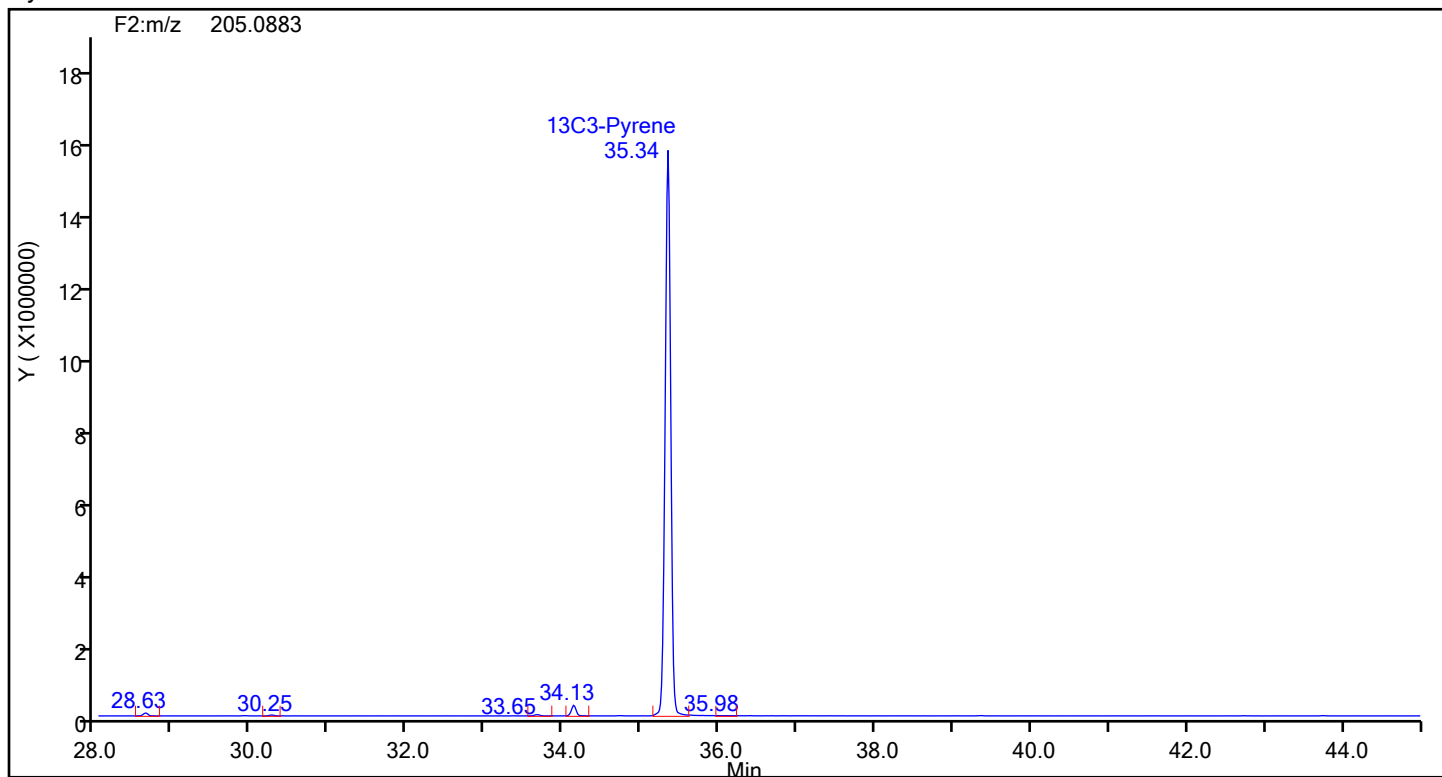
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Pyrene



## Pyrene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

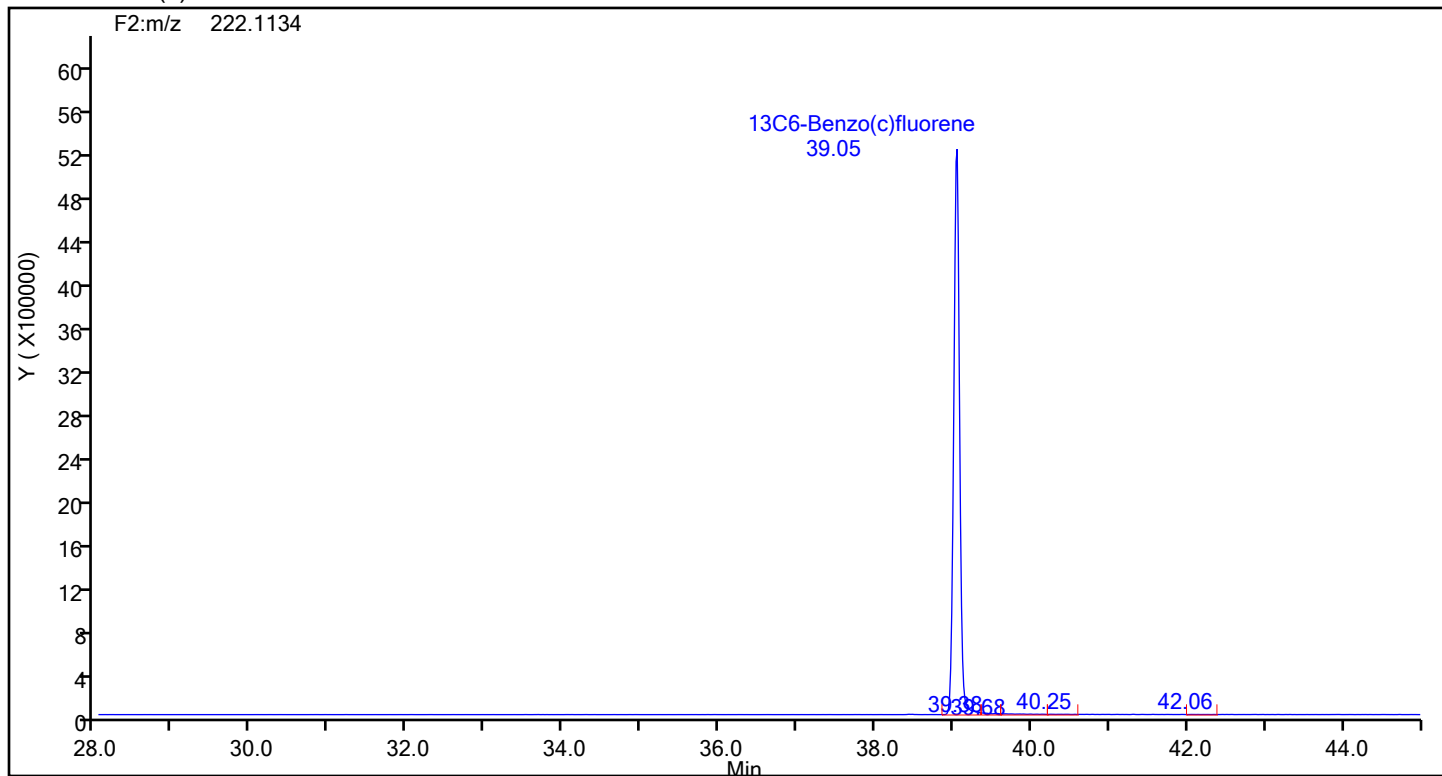
Worklist#: 88945

Sample Line#: 1

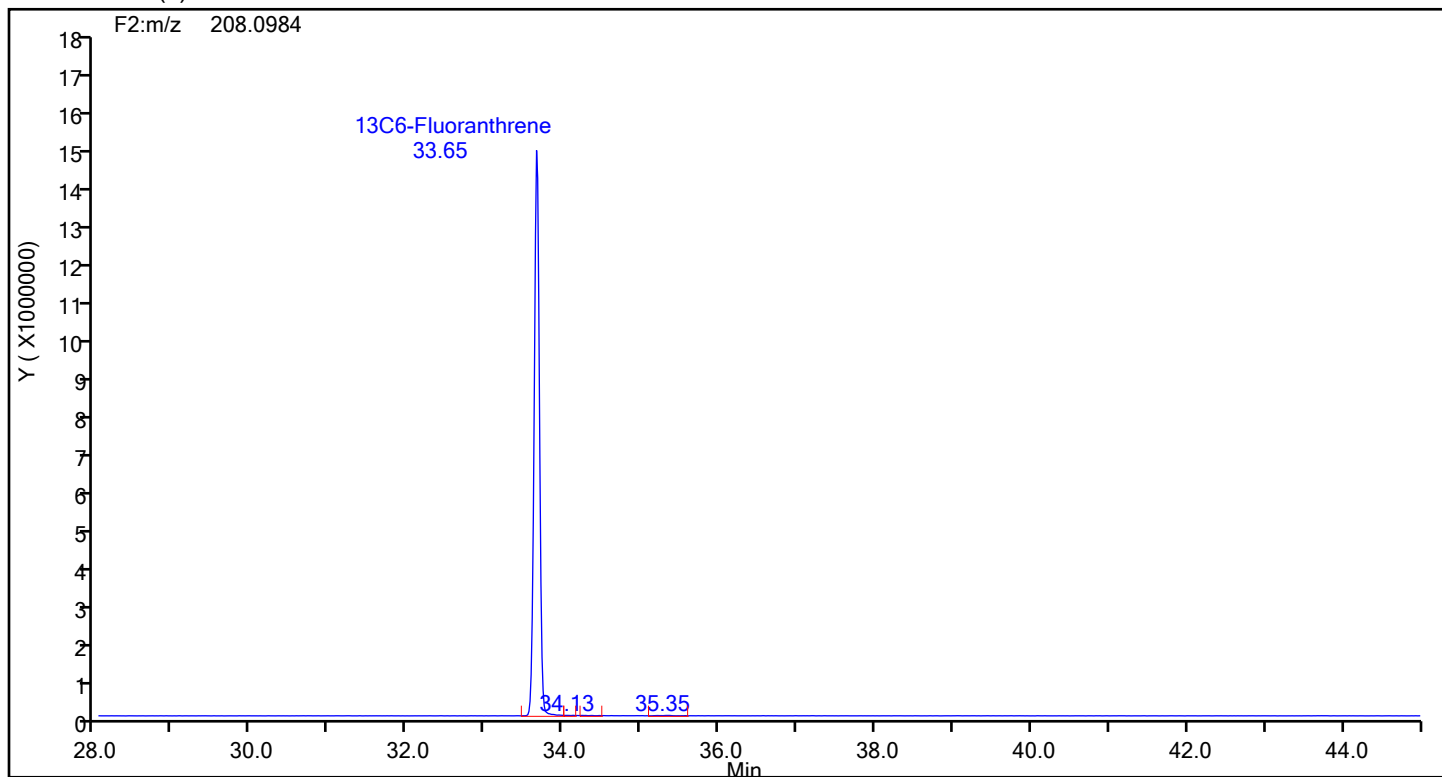
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

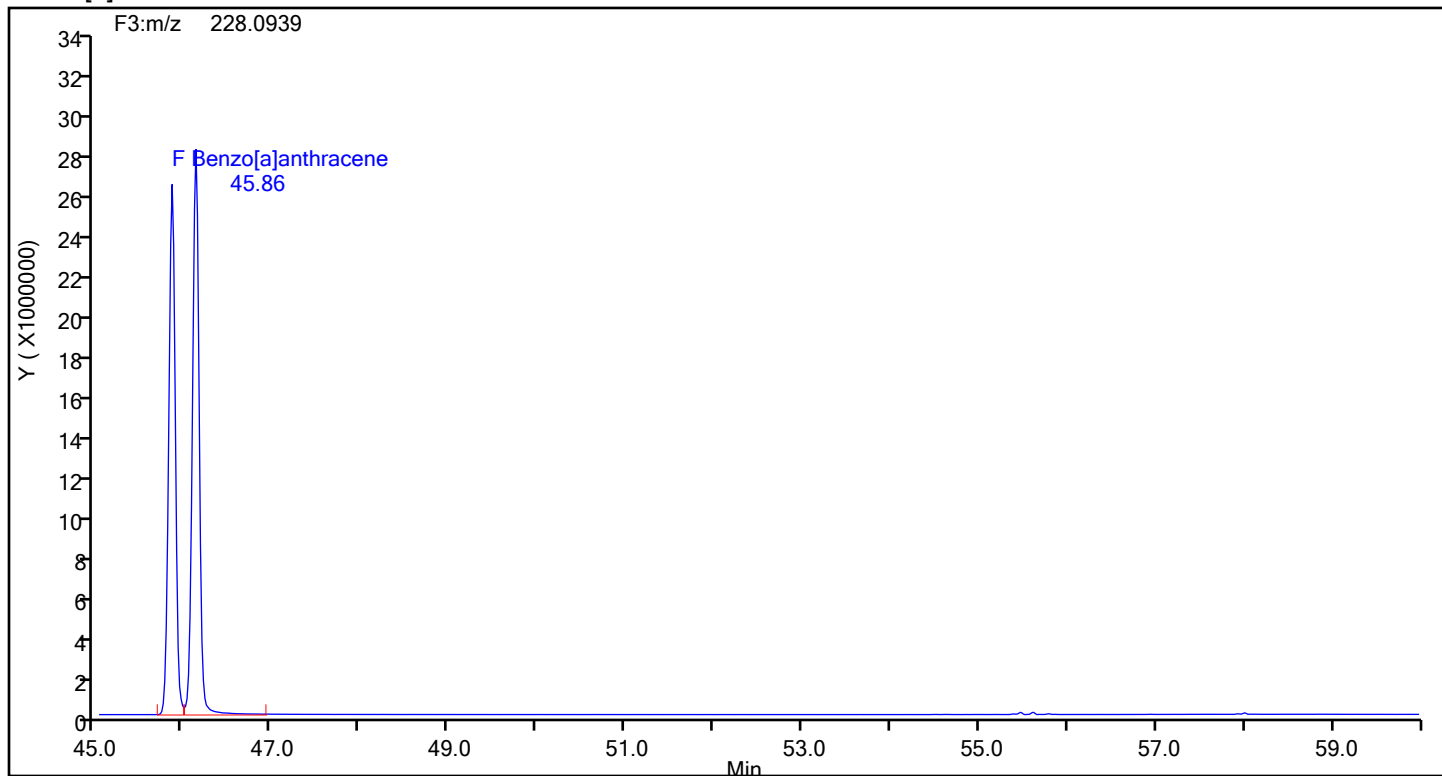
Worklist#: 88945

Sample Line#: 1

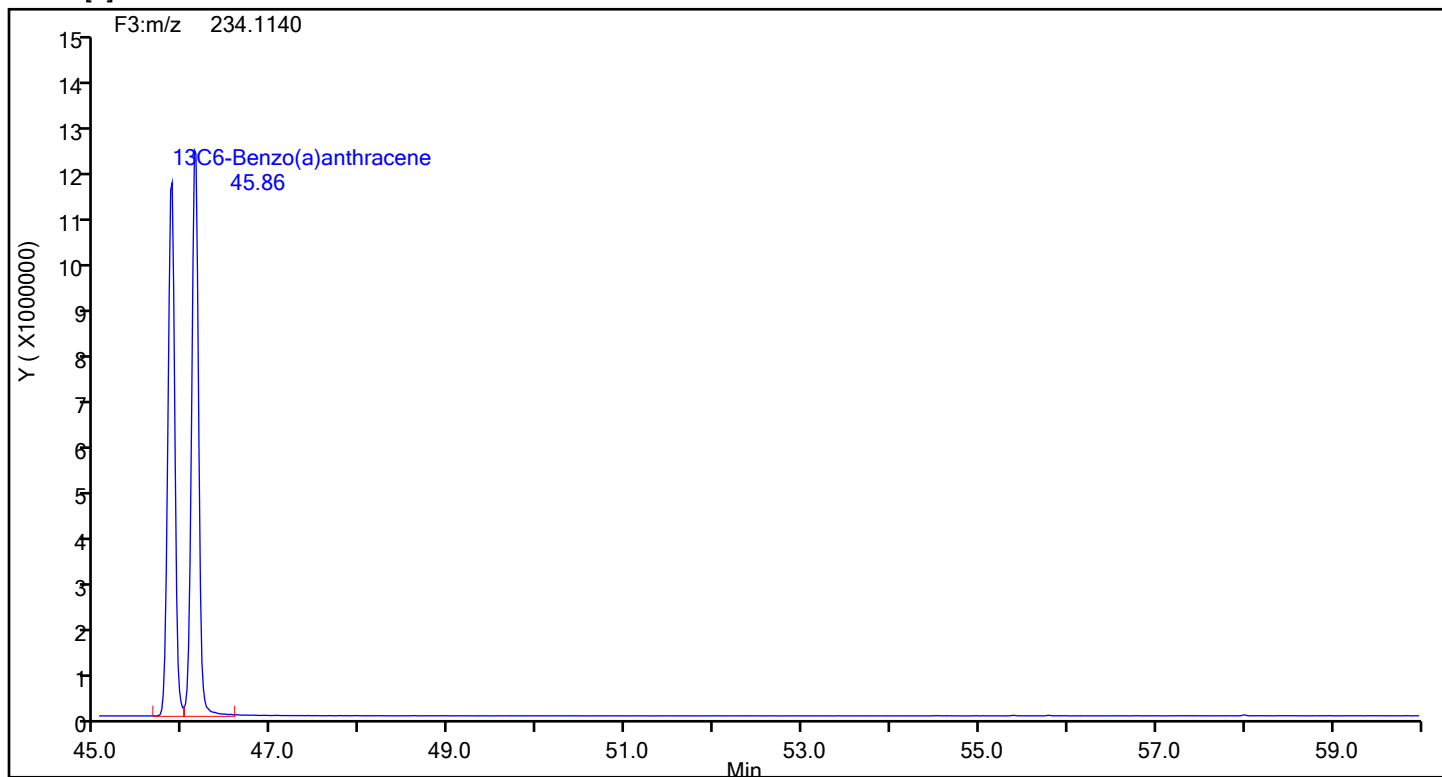
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[a]anthracene



## Benzo[a]anthracene Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

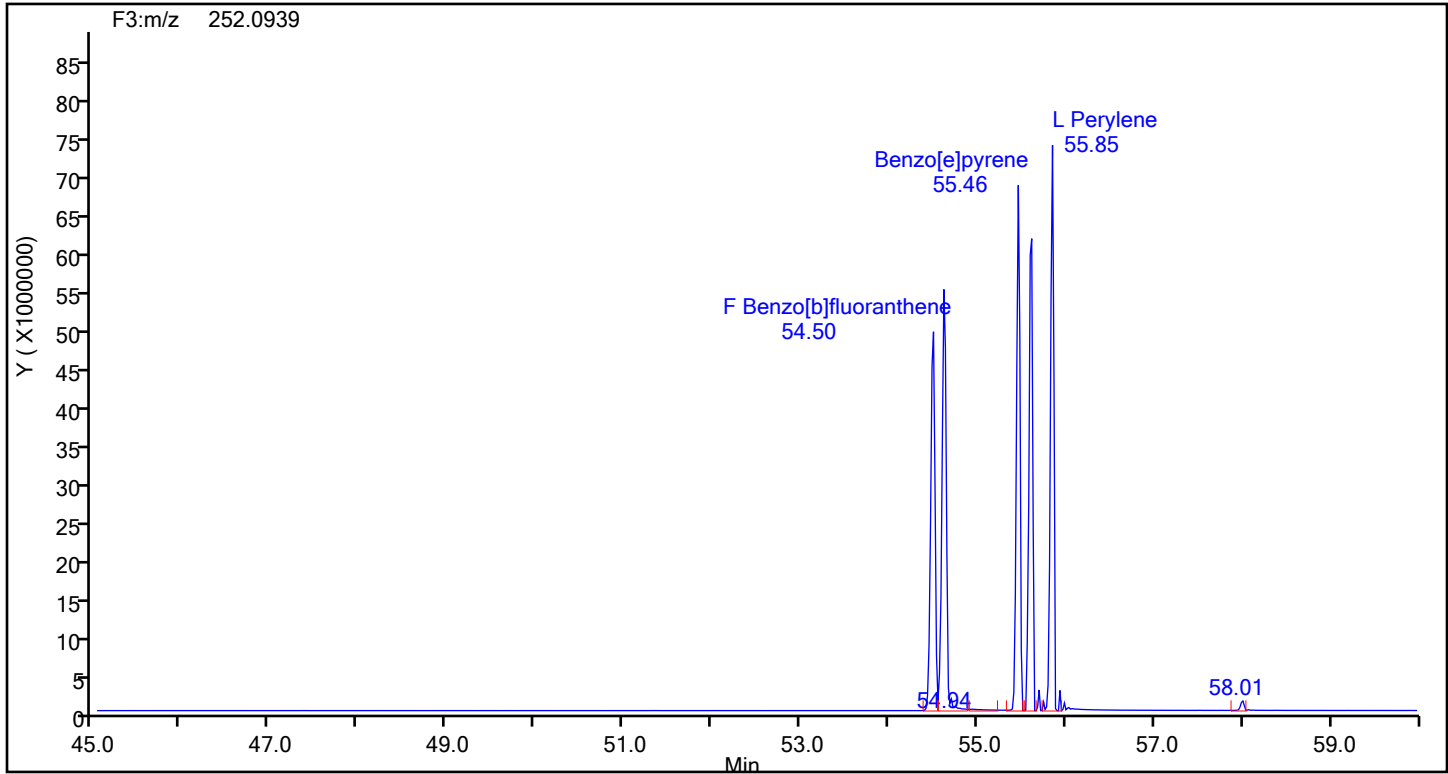
Worklist#: 88945

Sample Line#: 1

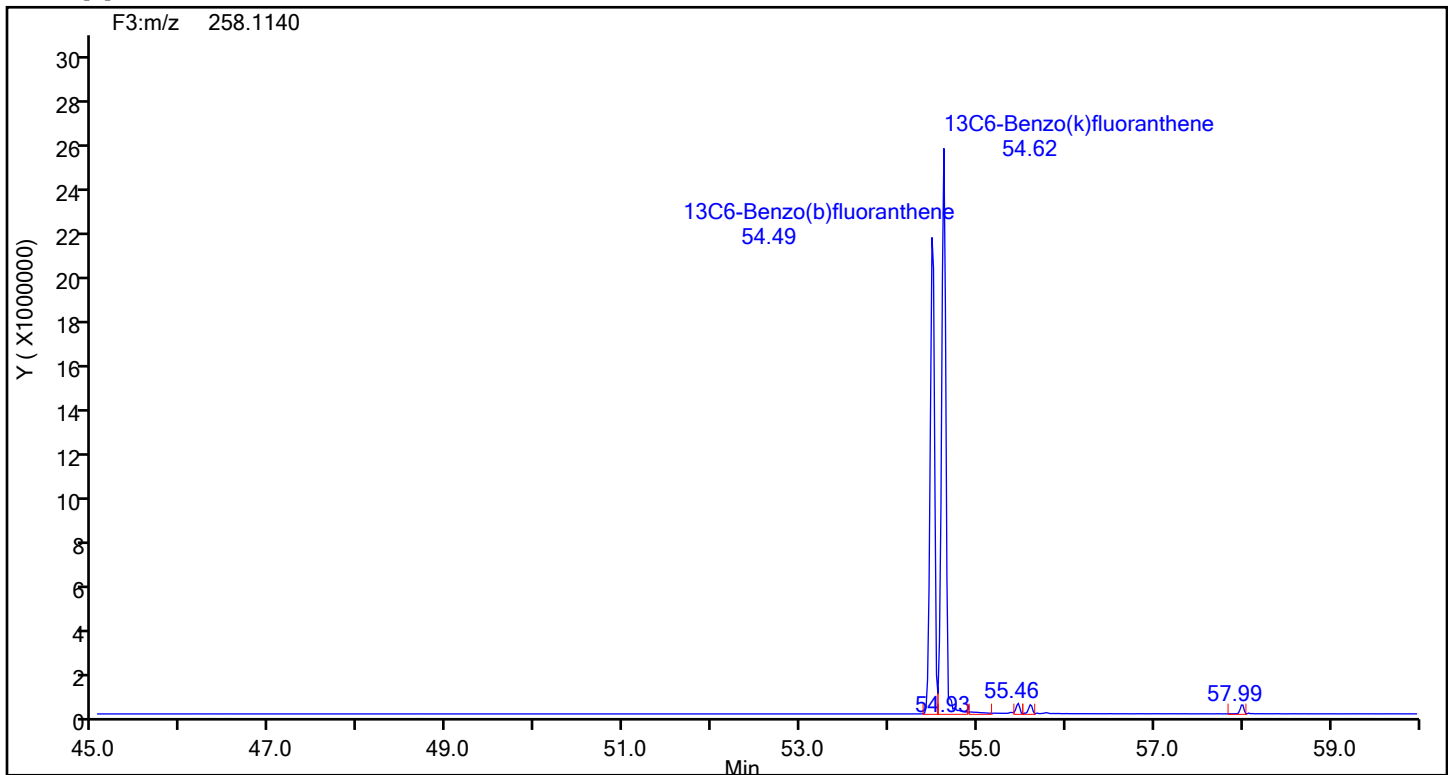
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

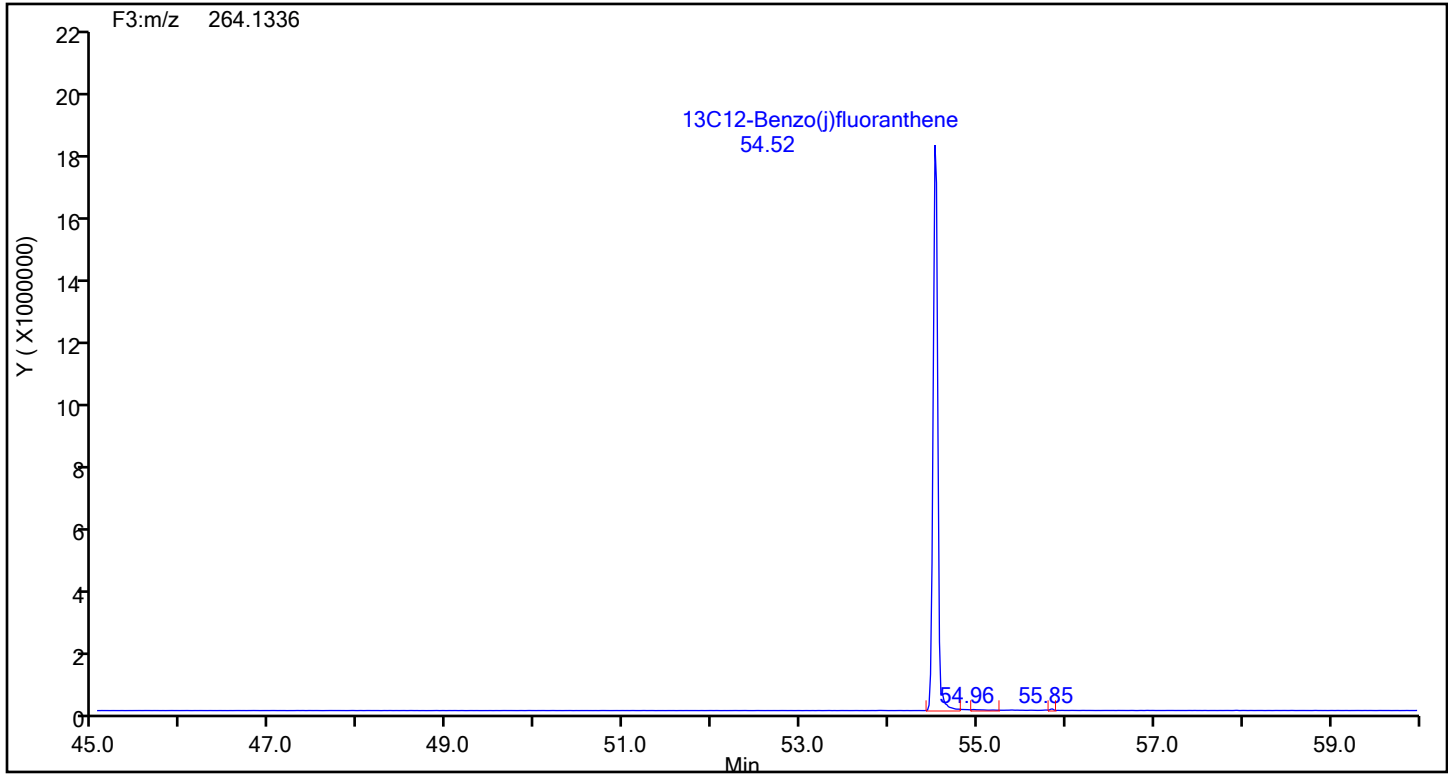
Worklist#: 88945

Sample Line#: 1

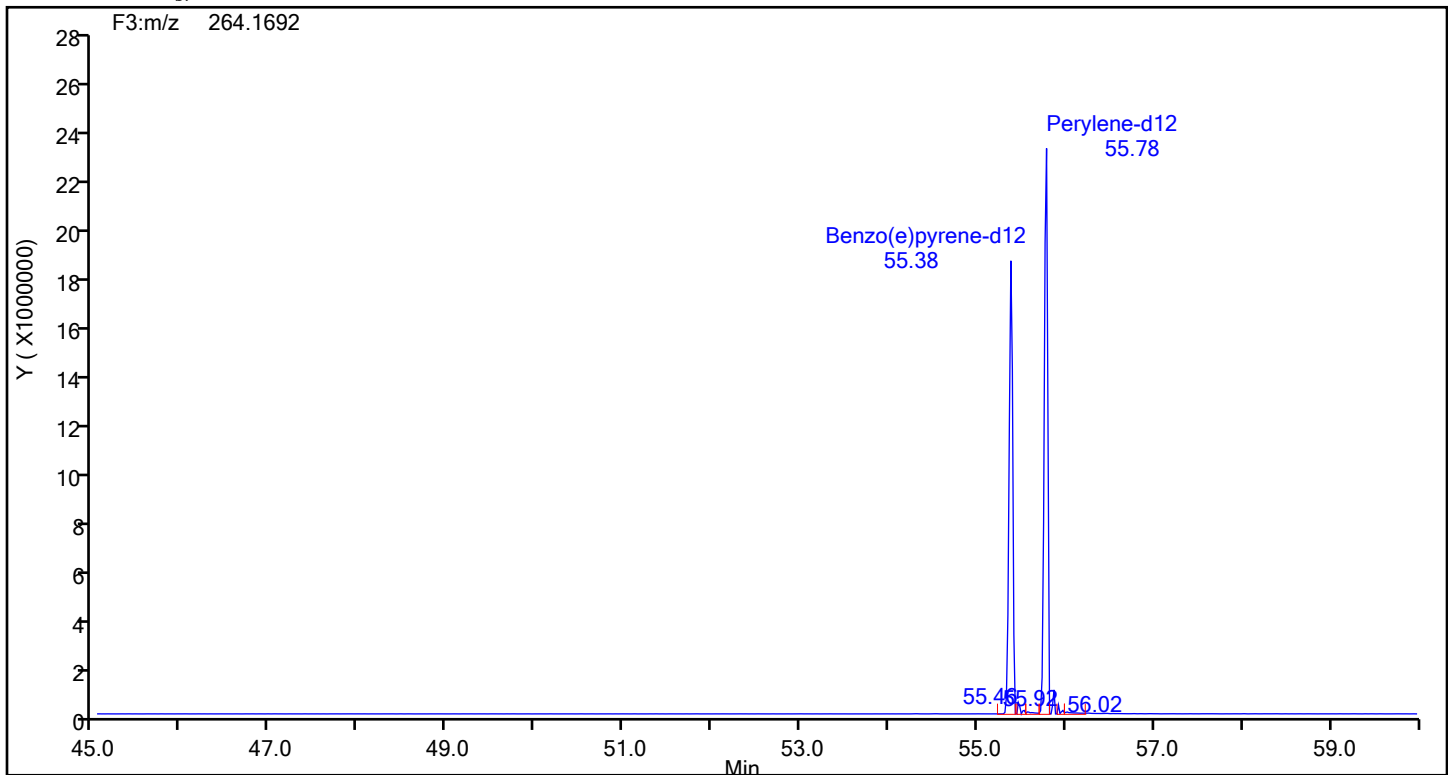
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

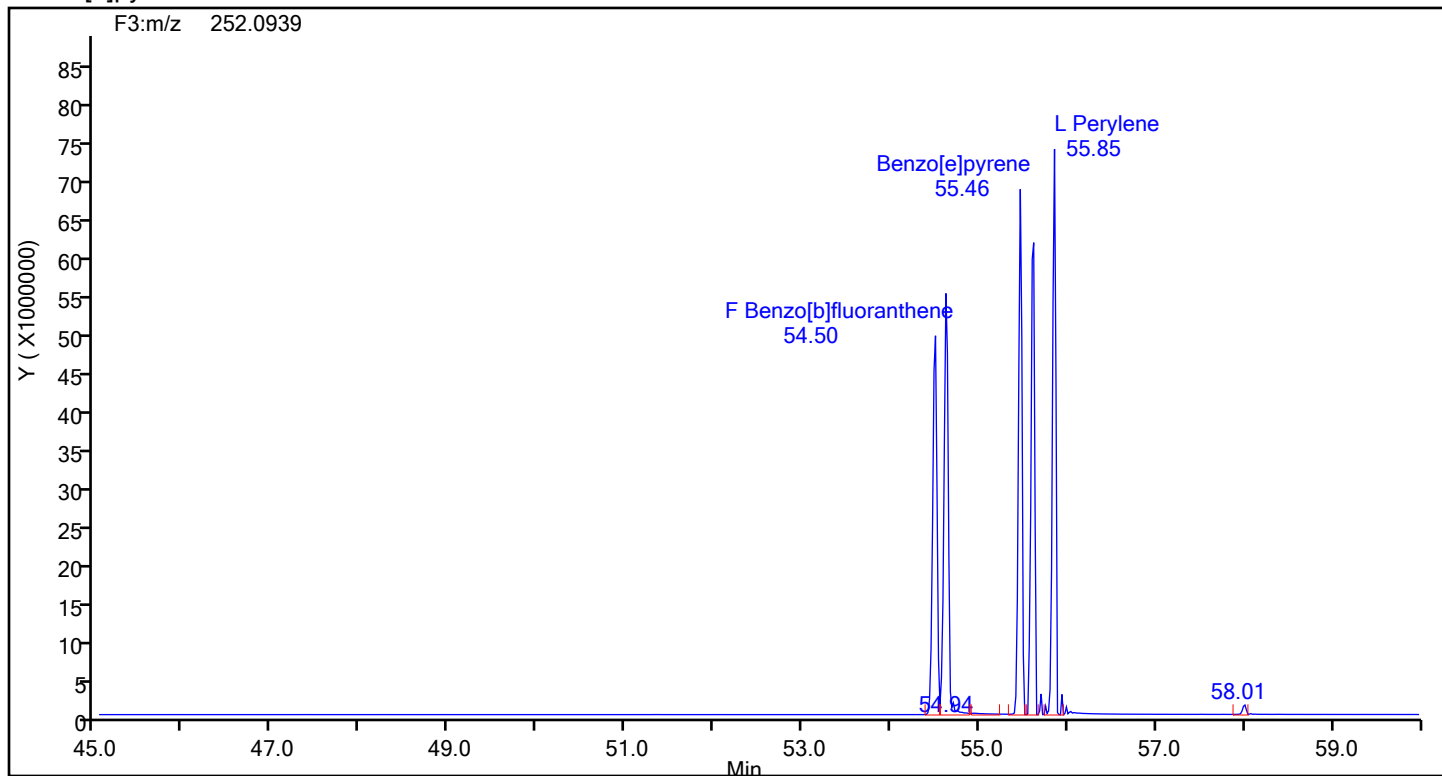
Worklist#: 88945

Sample Line#: 1

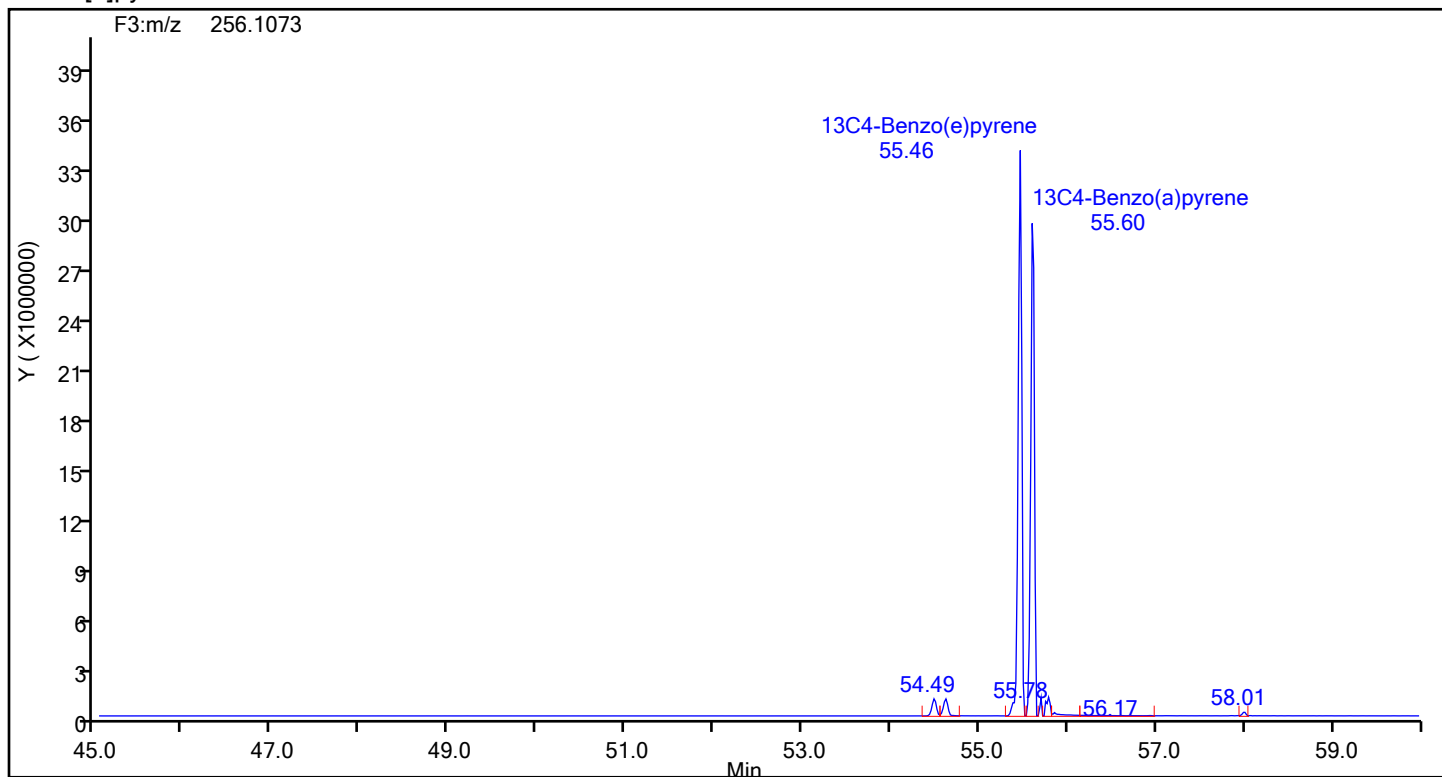
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[e]pyrene

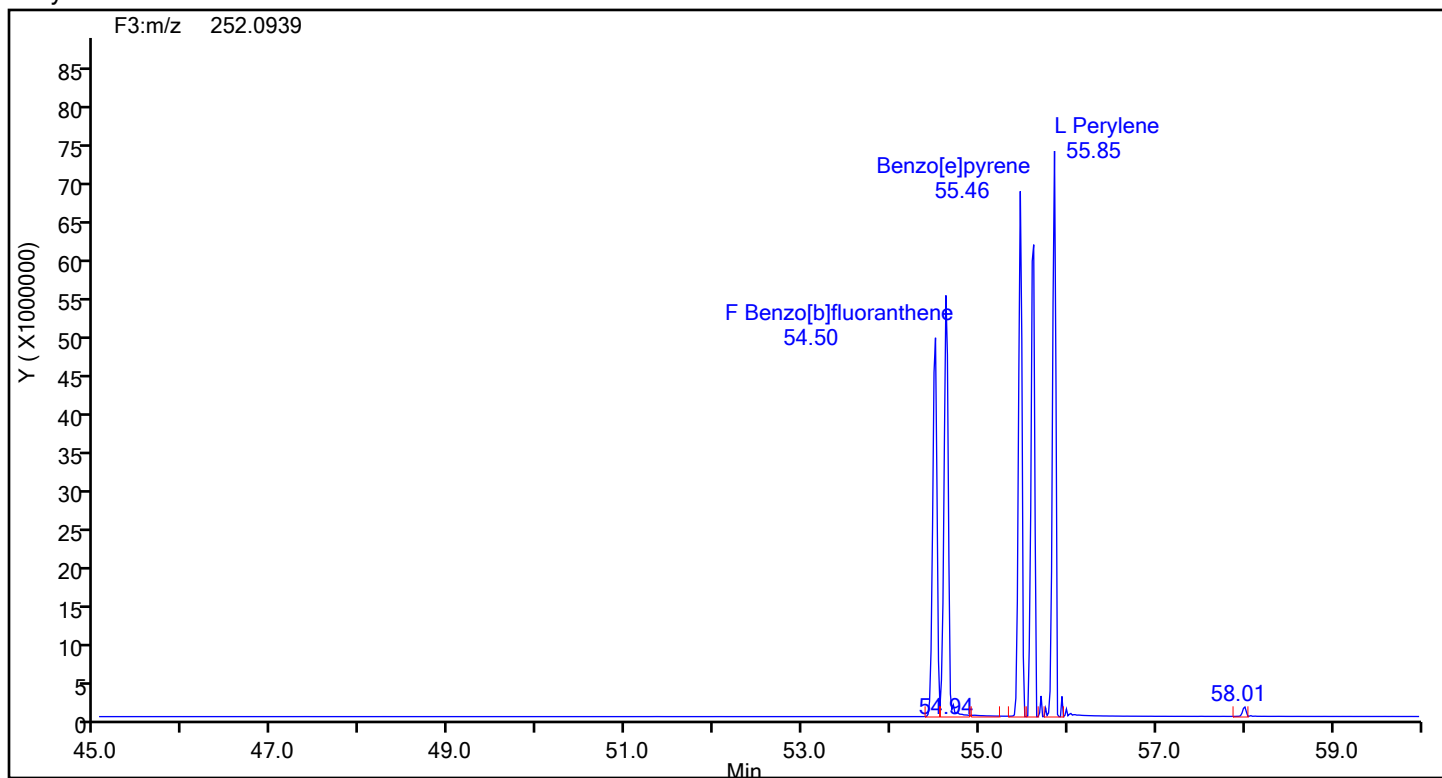


## Benzo[e]pyrene Standards

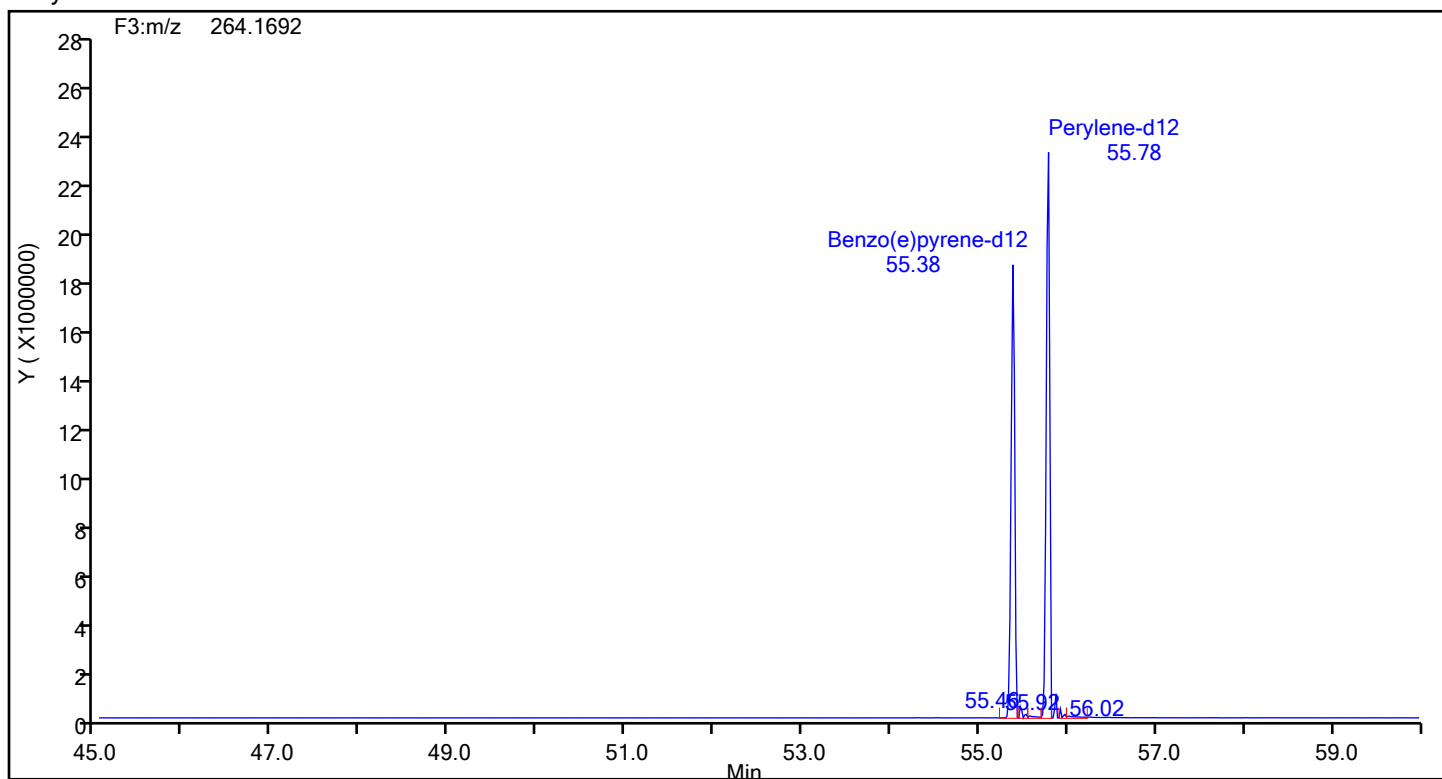


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d  
Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88945 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Perylene



## Perylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

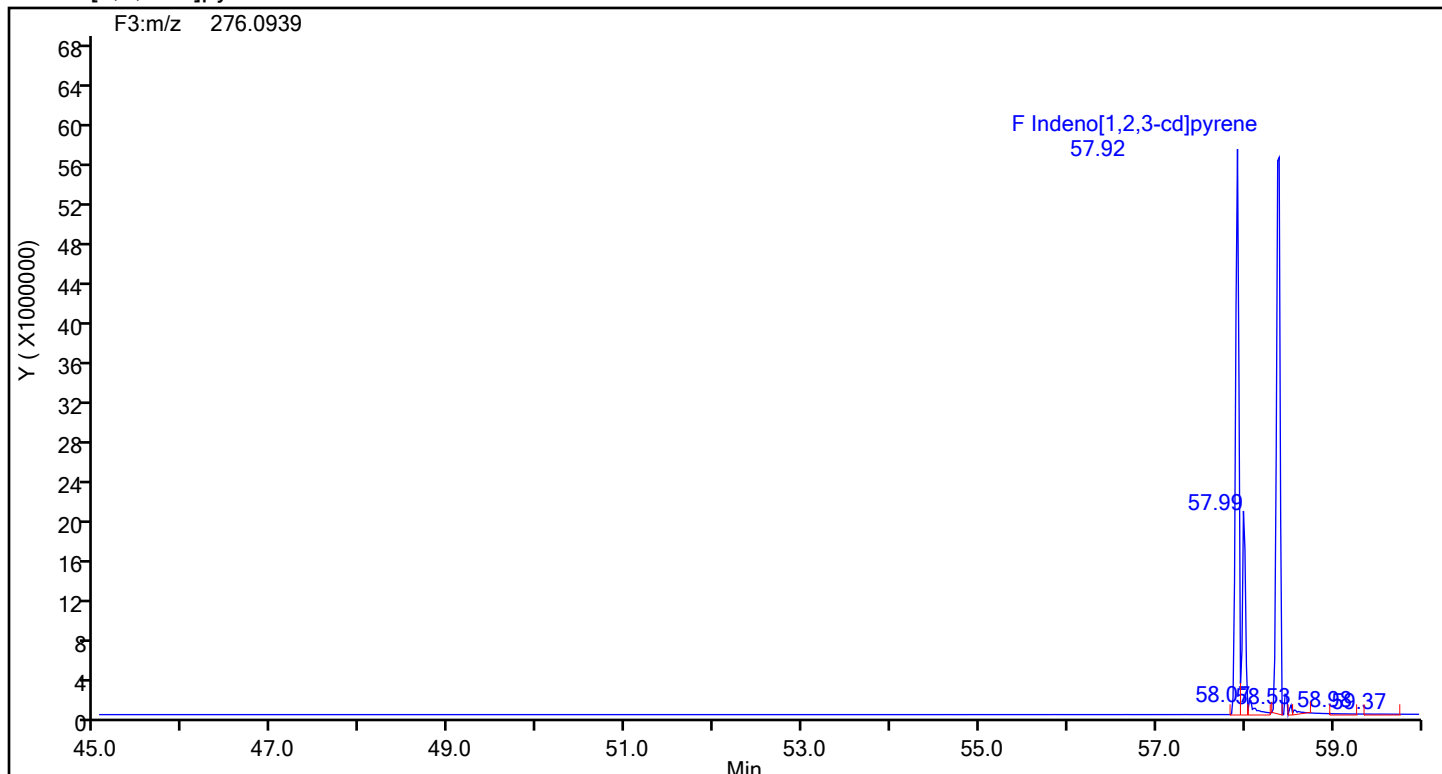
Worklist#: 88945

Sample Line#: 1

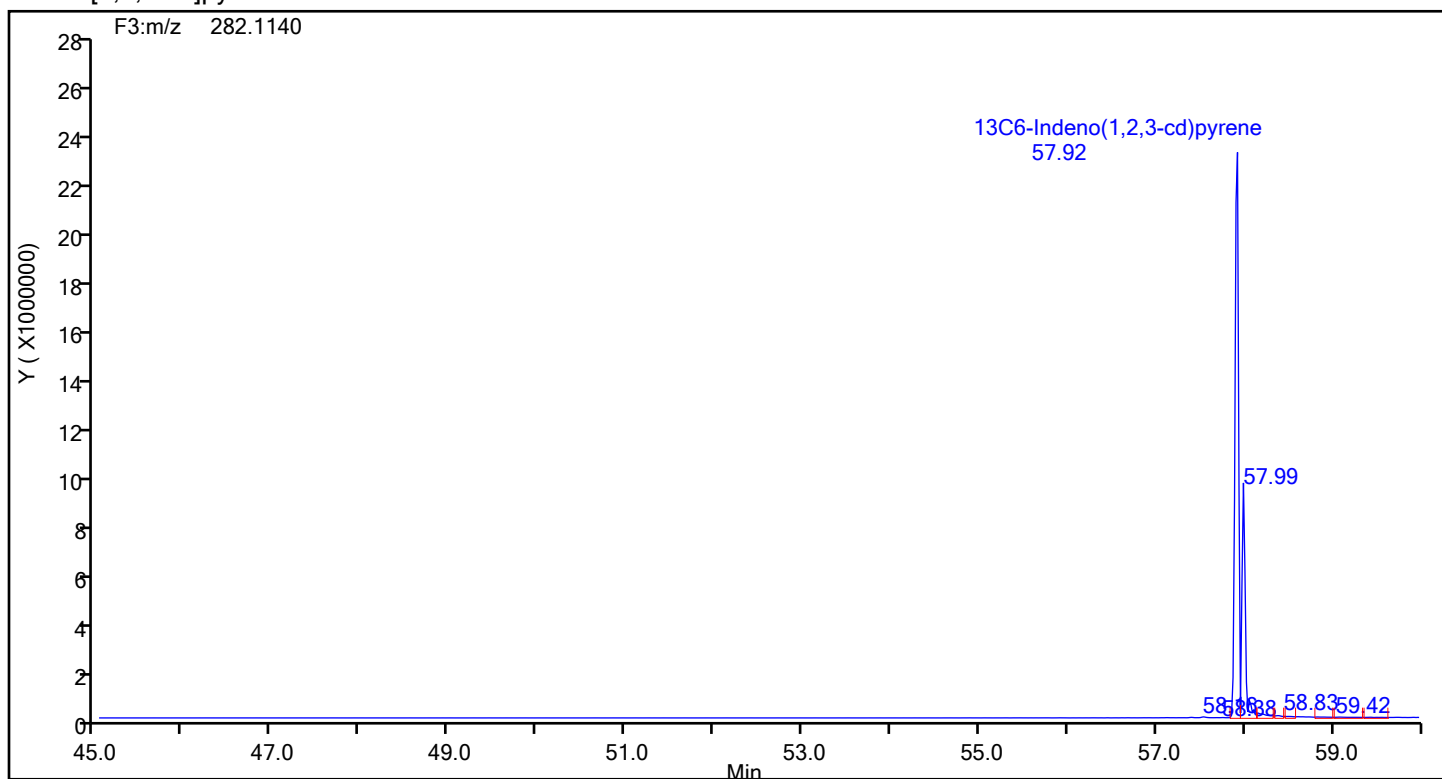
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



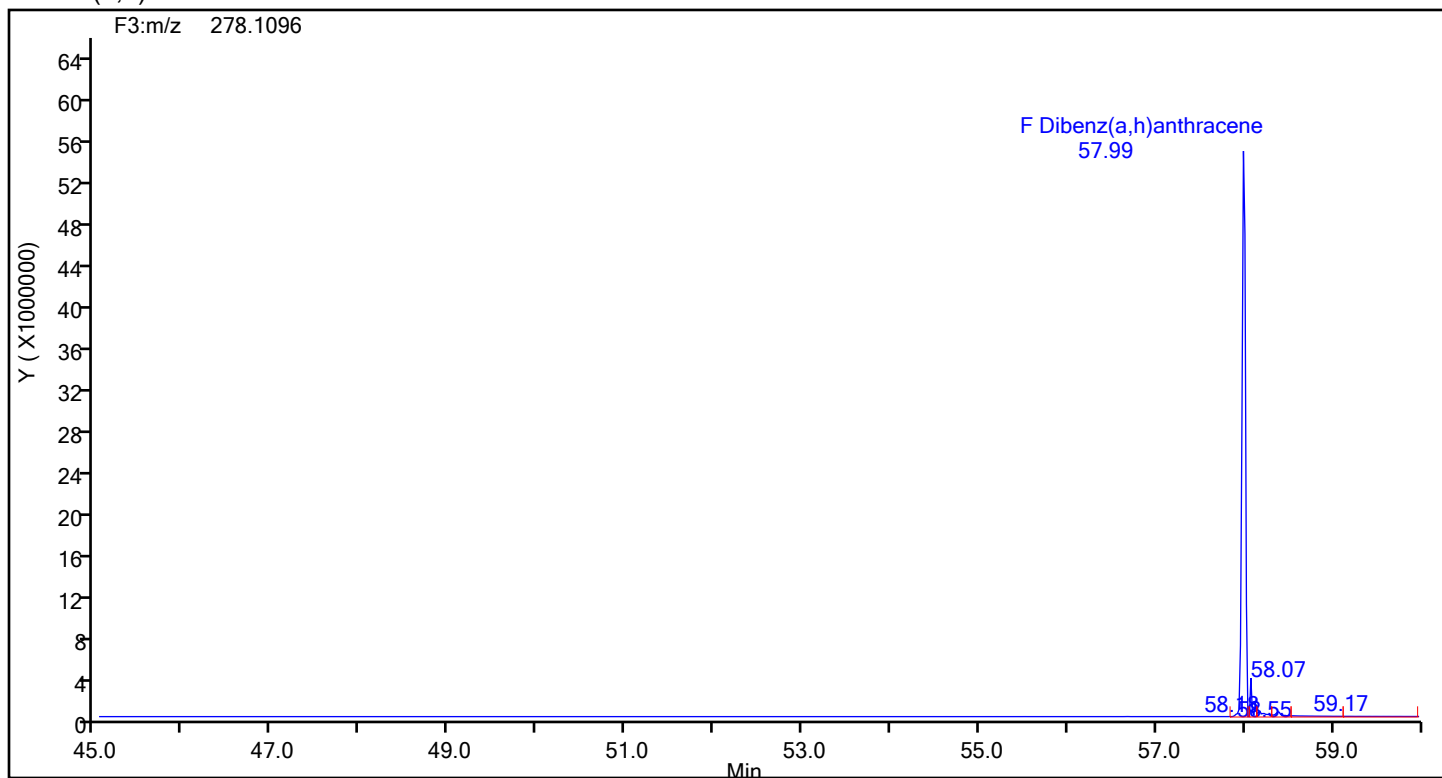
Indeno[1,2,3-cd]pyrene Standards



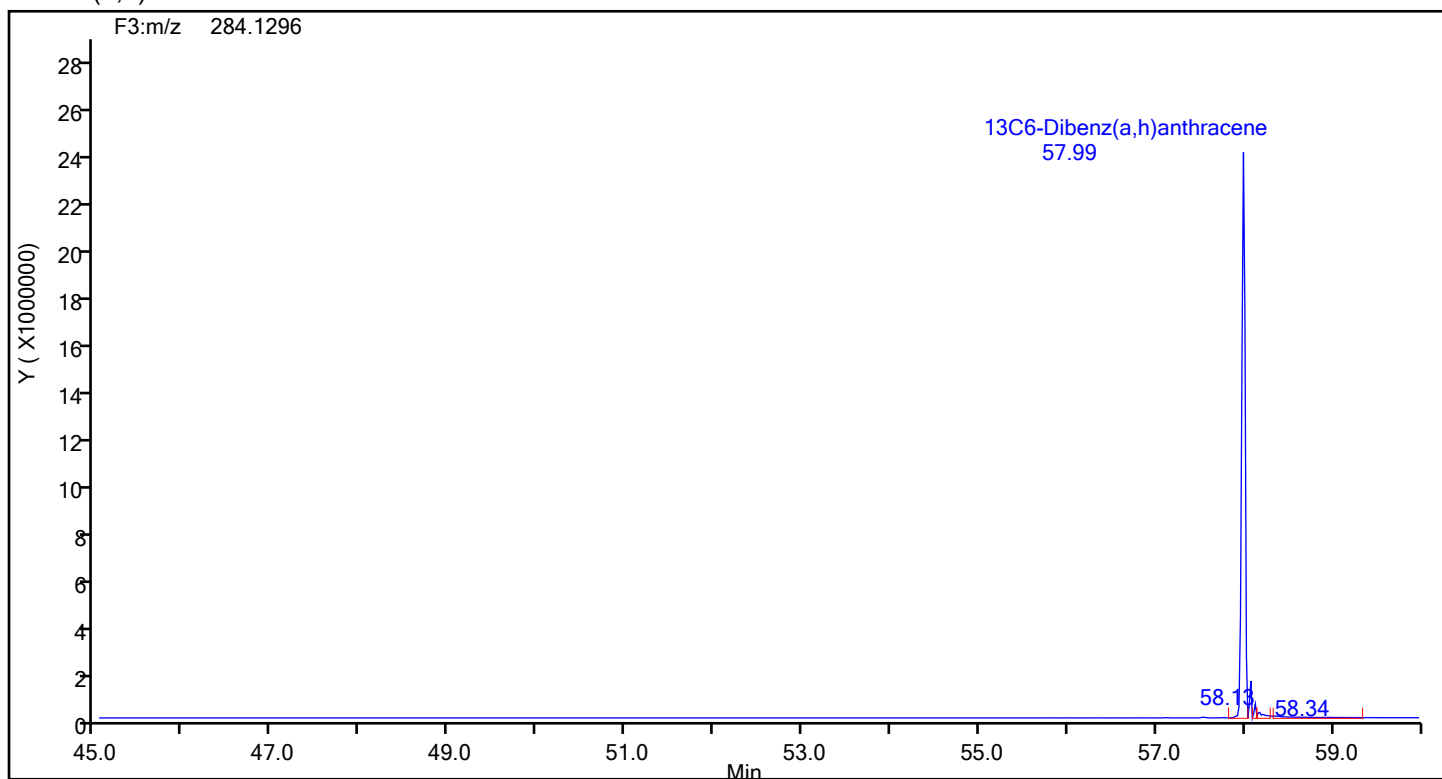
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d  
Injection Date: 18-Jul-2024 21:47:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88945 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240718-33572.b\d3240718c2a\_20240718214503.d

Injection Date: 18-Jul-2024 21:47:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

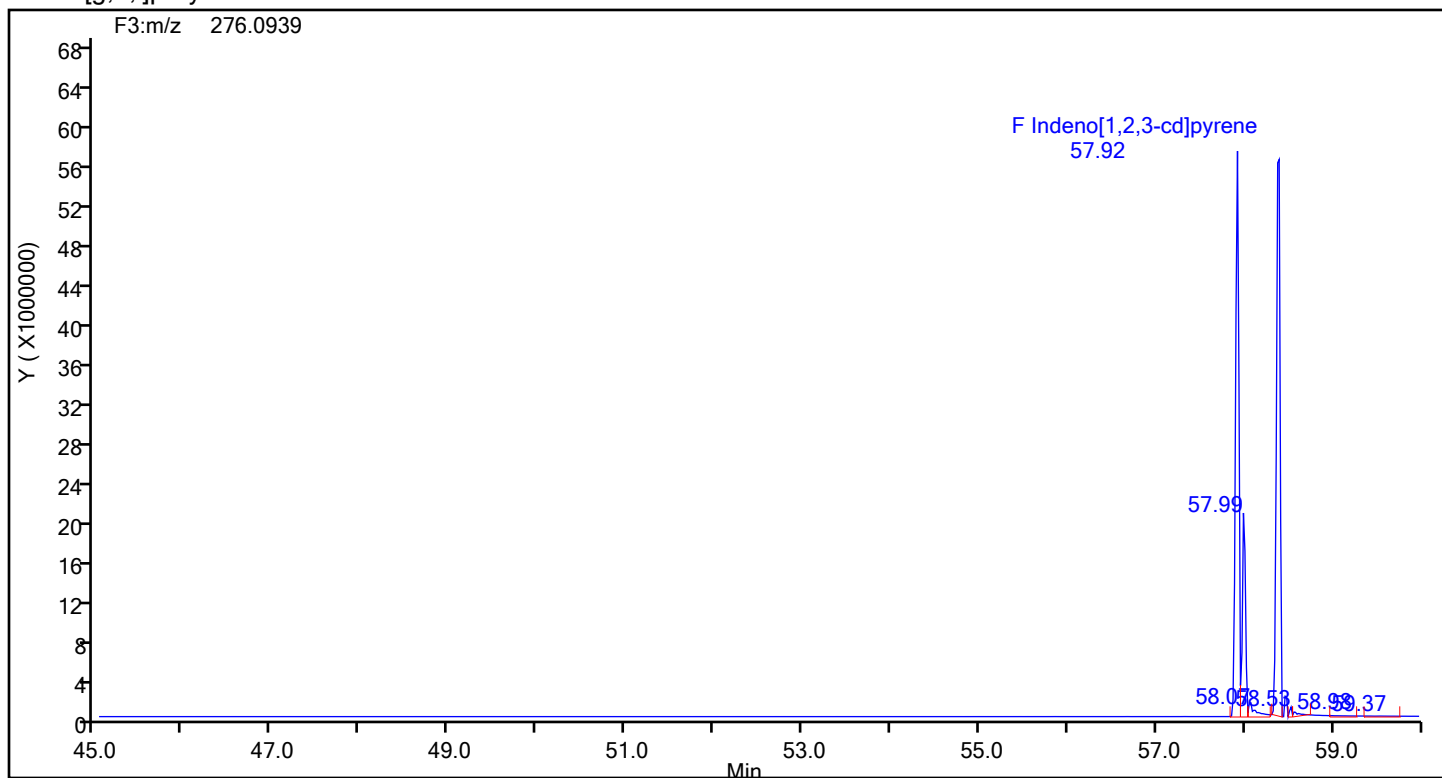
Worklist#: 88945

Sample Line#: 1

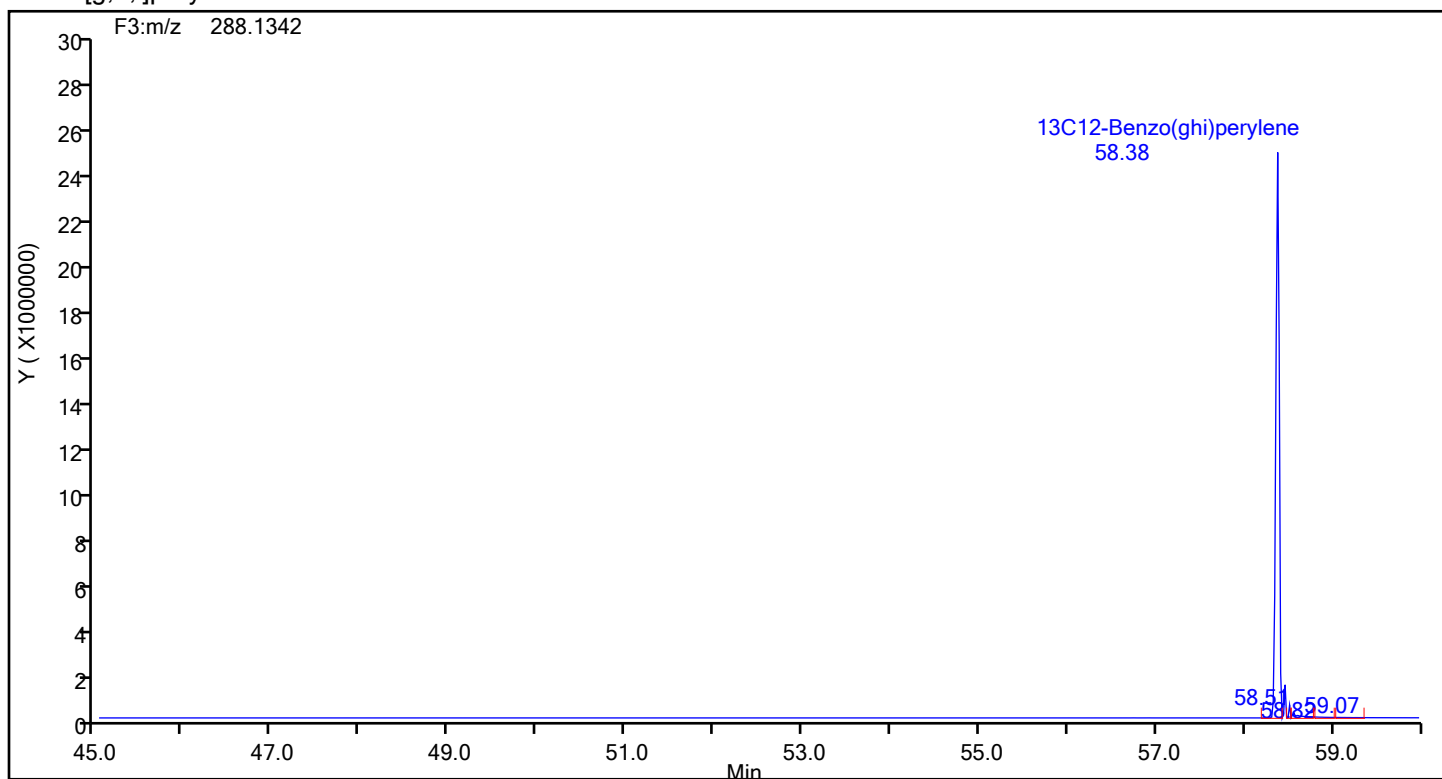
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



FORM VII  
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCV 140-89185/1 Calibration Date: 07/24/2024 21:46

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240724c2b.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.227		190	200	-4.9	25.0
2-Methylnaphthalene	AveID	1.279	1.171		183	200	-8.4	25.0
Acenaphthylene	AveID	2.366	2.212		187	200	-6.5	25.0
Acenaphthene	AveID	1.270	1.172		185	200	-7.7	25.0
Fluorene	AveID	1.253	1.237		197	200	-1.3	25.0
Phenanthrene	AveID	1.104	1.085		197	200	-1.7	25.0
Anthracene	AveID	1.359	1.347		198	200	-0.9	25.0
Fluoranthene	AveID	1.151	1.157		201	200	0.5	25.0
Pyrene	AveID	1.065	1.040		195	200	-2.3	25.0
Benzo[a]anthracene	AveID	0.9739	1.060		218	200	8.9	25.0
Chrysene	AveID	0.9815	1.047		213	200	6.7	25.0
Benzo[b]fluoranthene	AveID	1.125	1.096		195	200	-2.6	25.0
Benzo[k]fluoranthene	AveID	1.127	1.056		187	200	-6.3	25.0
Benzo[e]pyrene	AveID	1.001	0.9676		193	200	-3.4	25.0
Benzo[a]pyrene	AveID	1.113	1.021		184	200	-8.3	25.0
Perylene	AveID	1.431	1.503		210	200	5.1	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.170		208	200	4.0	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.152		204	200	1.8	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.176		183	200	-8.4	25.0
13C6-Naphthalene	Ave	3.375	2.987		88.5	100	-11.5	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.410		87.9	100	-12.1	30.0
13C6-Acenaphthylene	Ave	1.652	1.544		93.4	100	-6.6	30.0
13C6-Acenaphthene	Ave	0.9792	0.9356		95.6	100	-4.5	30.0
13C6-Fluorene	Ave	0.8898	0.8886		99.9	100	-0.1	30.0
13C6-Phenanthrene	Ave	0.5724	0.6274		110	100	9.6	30.0
13C6-Anthracene	Ave	0.4523	0.4989		110	100	10.3	30.0
13C6-Fluoranthrene	Ave	1.199	1.221		102	100	1.8	30.0
13C3-Pyrene	Ave	1.351	1.438		106	100	6.4	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.425		93.8	100	-6.2	30.0
13C6-Chrysene	Ave	1.629	1.623		99.7	100	-0.3	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.455		99.5	100	-0.5	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.867		107	100	6.6	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.747		107	100	6.7	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.713		111	100	10.5	30.0
Perylene-d12	Ave	1.192	1.243		104	100	4.3	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	1.081		106	100	5.8	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.260		119	100	19.4	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.492		117	100	17.0	30.0
Anthracene-d10	Ave	0.4257	0.4767		112	100	12.0	25.0
13C6-Benzo(c)fluorene	Ave	0.5136	0.5505		107	100	7.2	25.0
13C12-Benzo(j)fluoranthene	Ave	1.356	1.370		101	100	1.1	25.0



# Resolution Check Report ( DFS SN: 3439 )

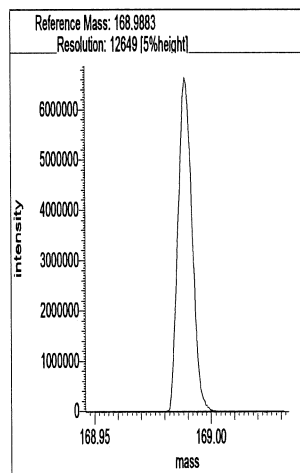
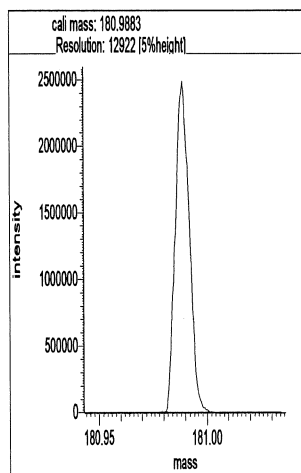
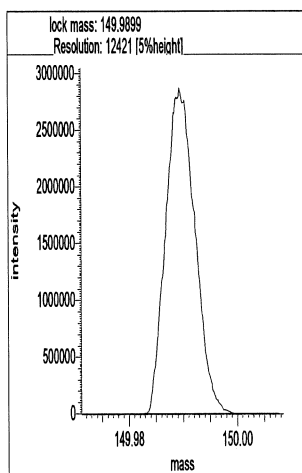
Date: 24 Jul 2024 21:36  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

## Segment 1

Lock mass 149.9899 [m/z] Resolution: 12421 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 12922 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 12649 [5%height]



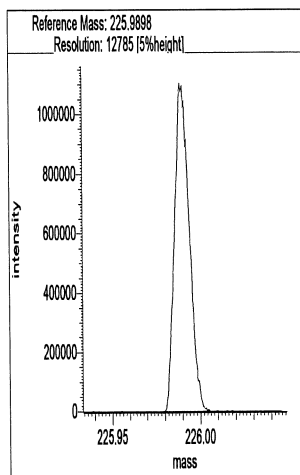
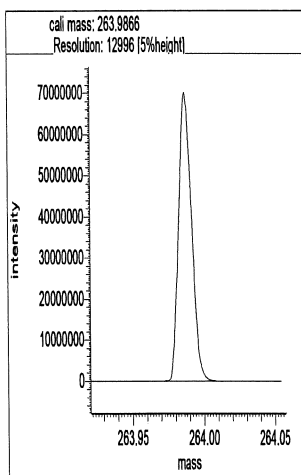
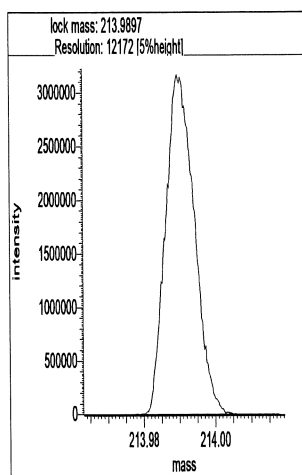
## Segment 2

Lock mass 213.9897 [m/z] Resolution: 12172 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 12996 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 12785 [5%height]

d3240724r10

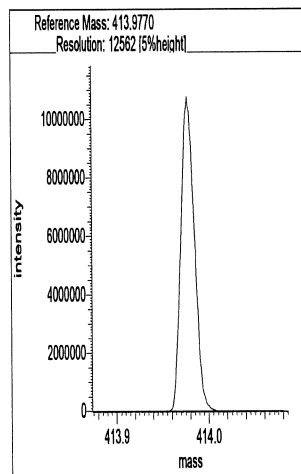
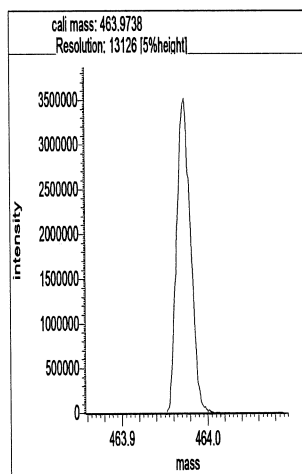
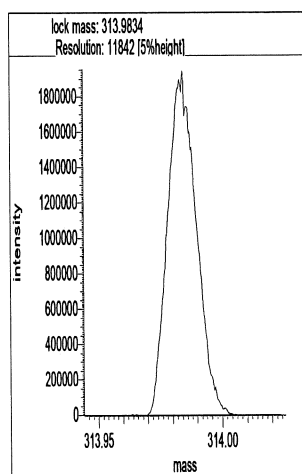


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11842 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 13126 [5%height]

Ref. mass 413.9770 [m/z] Resolution: 12562 [5%height]



## Reports

21:42:31: Peak matching procedure started  
21:42:32:  
21:42:32: Reference mass: 263.98656  
21:42:33: Sample mass: 414.0  
21:42:33:  
21:42:34: Finding reference mass  
21:42:35: Finding sample mass  
21:42:35:  
21:42:41: [1] 413.9759 amu, mean: 413.9759 SD: 0.05 mmu or: 0.11 ppm  
21:42:44: [2] 413.9758 amu, mean: 413.9758 SD: 0.06 mmu or: 0.14 ppm  
21:42:47: [3] 413.9758 amu, mean: 413.9758 SD: 0.09 mmu or: 0.22 ppm  
21:42:50: [4] 413.9757 amu, mean: 413.9758 SD: 0.27 mmu or: 0.65 ppm  
21:42:53: [5] 413.9752 amu, mean: 413.9757 SD: 0.25 mmu or: 0.60 ppm  
21:42:56: [6] 413.9758 amu, mean: 413.9757 SD: 0.23 mmu or: 0.55 ppm  
21:43:00: [7] 413.9757 amu, mean: 413.9757 SD: 0.34 mmu or: 0.83 ppm  
21:43:03: [8] 413.9765 amu, mean: 413.9758 SD: 0.38 mmu or: 0.91 ppm  
21:43:06: [9] 413.9764 amu, mean: 413.9759 SD: 0.45 mmu or: 1.09 ppm  
21:43:09: [10] 413.9767 amu, mean: 413.9759 SD: 0.52 mmu or: 1.26 ppm  
21:43:12: [11] 413.9769 amu, mean: 413.9760  
21:43:13:  
21:43:13: Stop requested. Please wait for procedure to finish.  
21:43:13:  
21:43:15:  
21:43:16: Peakmatching stopped

Signature

*msf* 7/24/24

# Resolution Check Report ( DFS SN: 3439 )

Date: 25 Jul 2024 09:28  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

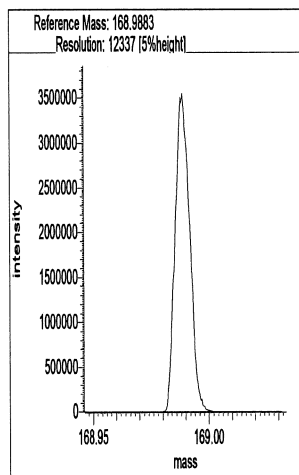
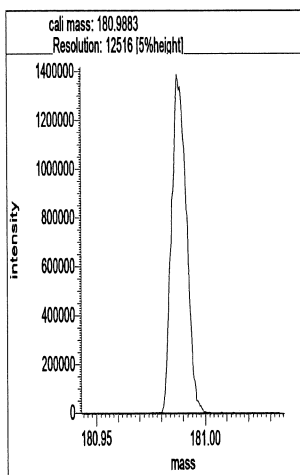
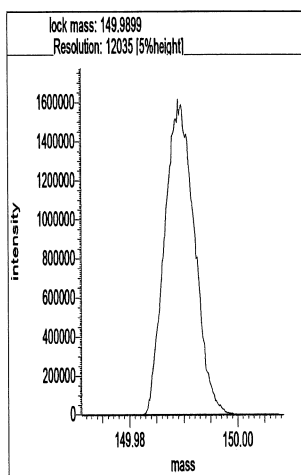
## Segment 1

-d3240725r1

Lock mass 149.9899 [m/z] Resolution: 12035 [5%height]

Cali. mass 180.9883 [m/z] Resolution: 12516 [5%height]

Ref. mass 168.9883 [m/z] Resolution: 12337 [5%height]

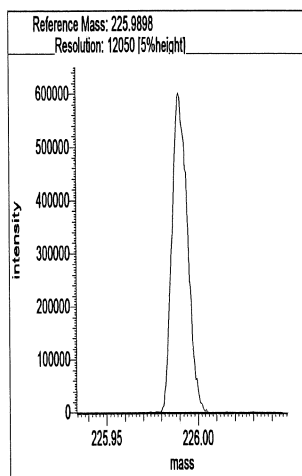
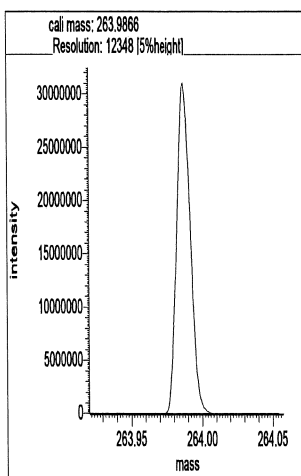
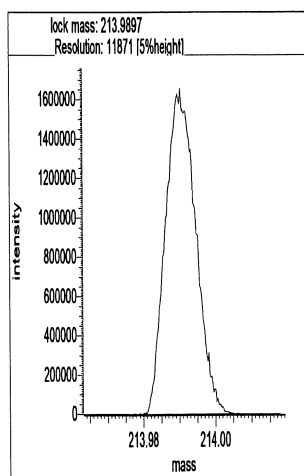


## Segment 2

Lock mass 213.9897 [m/z] Resolution: 11871 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 12348 [5%height]

Ref. mass 225.9898 [m/z] Resolution: 12050 [5%height]

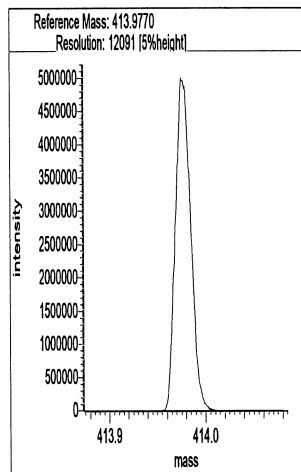
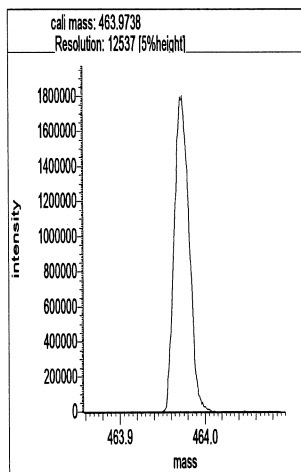
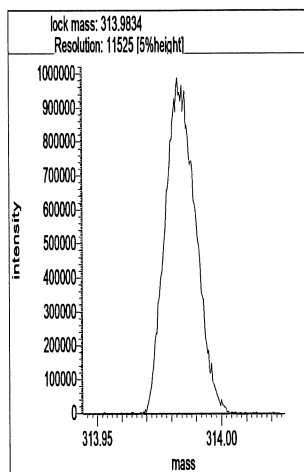


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11525 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 12537 [5%height]

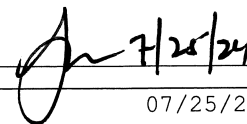
Ref. mass 413.9770 [m/z] Resolution: 12091 [5%height]



## Reports

09:35:09: Peak matching procedure started  
09:35:09:  
09:35:10: Reference mass: 263.98656  
09:35:10: Sample mass: 414.0  
09:35:11:  
09:35:11: Finding reference mass  
09:35:12: Finding sample mass  
09:35:13:  
09:35:18: [1] 413.9768 amu, mean: 413.9768 SD: 0.40 mmu or: 0.96 ppm  
09:35:22: [2] 413.9762 amu, mean: 413.9765 SD: 0.29 mmu or: 0.71 ppm  
09:35:25: [3] 413.9763 amu, mean: 413.9764 SD: 0.29 mmu or: 0.71 ppm  
09:35:28: [4] 413.9761 amu, mean: 413.9763 SD: 0.29 mmu or: 0.70 ppm  
09:35:31: [5] 413.9760 amu, mean: 413.9763 SD: 0.29 mmu or: 0.70 ppm  
09:35:34: [6] 413.9759 amu, mean: 413.9762 SD: 0.30 mmu or: 0.72 ppm  
09:35:37: [7] 413.9764 amu, mean: 413.9762 SD: 0.28 mmu or: 0.67 ppm  
09:35:40: [8] 413.9763 amu, mean: 413.9762 SD: 0.26 mmu or: 0.62 ppm  
09:35:44: [9] 413.9765 amu, mean: 413.9763 SD: 0.26 mmu or: 0.63 ppm  
09:35:47: [10] 413.9765 amu, mean: 413.9763 SD: 0.26 mmu or: 0.63 ppm  
09:35:50: [11] 413.9769 amu, mean: 413.9764 SD: 0.31 mmu or: 0.75 ppm  
09:35:53: [12] 413.9771 amu, mean: 413.9764 SD: 0.36 mmu or: 0.87 ppm  
09:35:56: [13] 413.9770 amu, mean: 413.9765 SD: 0.38 mmu or: 0.92 ppm  
09:35:57:  
09:35:57: Stop requested. Please wait for procedure to finish.  
09:35:57:  
09:35:59:  
09:36:00: Peakmatching stopped

Signature

Handwritten signature in black ink, appearing to be "J. H. 7/25/24".

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\d3240724c2b.d				
Lims ID:	CCV				
Client ID:					
Sample Type:	CCV				
Inject. Date:	24-Jul-2024 21:46:00	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	140-0033664-001				
Operator ID:	Xcalibur_System	Instrument ID:	D3PAH		
Sublist:	chrom-EPA_23__PAH*sub1				
Method:	\\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\EPA_23__PAH.m				
Limit Group:	HR - HRPAAH ICAL				
Last Update:	24-Jul-2024 23:01:23	Calib Date:	20-Jun-2024 01:09:00		
Integrator:	RTE				
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d				
Column 1 :	Restek-5Sil MS 25um ( 0.25 mm)		Det: F1(6.03 :27.99 )		
Process Host:	CTX1607				

Date: 24-Jul-2024 23:01:23

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:26	42038207		3.3746	88.5	88.5	0.0117	0.0117	88.51	
Naphthalene	11:26	103119812		1.2893	190.3	190.3	0.0233	0.0233	95.13	
D 13C6-2-Methylnaphthalene	13:48	19839668		1.6031	87.9	87.9	0.003216	0.003216	87.93	
2-Methylnaphthalene	13:48	46472749		1.2786	183.2	183.2	0.008163	0.008163	91.60	
D 13C6-Acenaphthylene	16:39	21727522		1.6520	93.4	93.4	0.004511	0.004511	93.44	
Acenaphthylene	16:39	58265546		2.3661	187.0	187.0	0.0118	0.0118	93.50	
* Acenaphthene-d10	17:13	14075062		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:21	13168106		0.9792	95.5	95.5	0.009060	0.009060	95.55	
Acenaphthene	17:21	30875961		1.2697	184.7	184.7	0.0122	0.0122	92.34	
D 13C6-Fluorene	19:37	12507661		0.8898	99.9	99.9	0.002580	0.002580	99.87	
Fluorene	19:38	30937264		1.2532	197.4	197.4	0.0116	0.0116	98.69	
D 13C6-Phenanthrene	24:59	19407043		0.5724	109.6	109.6	0.006790	0.006790	110	
Phenanthrene	24:59	42128515		1.1044	196.6	196.6	0.0154	0.0154	98.28	
\$ Anthracin-d10	25:12	14746053		0.4257	112.0	112.0	0.001810	0.001810	112	
D 13C6-Anthracene	25:18	15432099		0.4523	110.3	110.3	0.008592	0.008592	110	
Anthracene	25:19	41572824		1.3586	198.3	198.3	0.0155	0.0155	99.14	
D 13C6-Fluoranthrene	33:42	37781597		1.1994	101.8	101.8	0.0107	0.0107	102	
Fluoranthene	33:42	87439494		1.1513	201.0	201.0	0.008022	0.008022	101	
* Pyrene-d10	35:14	30934628		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:24	44490849		1.3512	106.4	106.4	0.0145	0.0145	106	
Pyrene	35:24	92584093		1.0652	195.4	195.4	0.007641	0.007641	97.68	
\$ 13C6-Benzo(c)fluorene	39:05	17028527		0.5136	107.2	107.2	0.007501	0.007501	107	
D 13C6-Benzo(a)anthracene	45:54	34015181		1.5189	93.8	93.8	0.009102	0.009102	93.83	
Benzo[a]anthracene	45:55	72134279		0.9739	217.8	217.8	0.0225	0.0225	109	
D 13C6-Chrysene	46:10	38739154		1.6287	99.7	99.7	0.008488	0.008488	99.65	
Chrysene	46:11	81122218		0.9815	213.4	213.4	0.0201	0.0201	107	
D 13C6-Benzo(b)fluoranthene	54:31	34726961		1.4621	99.5	99.5	0.002281	0.002281	99.52	
Benzo[b]fluoranthene	54:31	76121872		1.1249	194.9	194.9	0.003032	0.003032	97.43	
\$ 13C12-Benzo(j)fluoranthene	54:33	32702009		1.3558	101.1	101.1	0.008999	0.008999	101	
D 13C6-Benzo(k)fluoranthene	54:38	44559353		1.7507	106.6	106.6	0.001905	0.001905	107	
Benzo[k]fluoranthene	54:38	94067473		1.1271	187.3	187.3	0.002601	0.002601	93.65	
* Benzo(e)pyrene-d12	55:24	23867485		5.7E+04	100.0	100.0				
Benzo[e]pyrene	55:29	80689865		1.0013	193.3	193.3	0.002391	0.002391	96.64	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(e)pyrene	55:29	41695837		1.6368	106.7	106.7	0.004692	0.004692	107	
D 13C4-Benzo(a)pyrene	55:37	40886970		1.5508	110.5	110.5	0.004953	0.004953	110	
Benzo[a]pyrene	55:37	83506420		1.1130	183.5	183.5	0.002274	0.002274	91.75	
D Perylene-d12	55:47	29670360		1.1917	104.3	104.3	0.009400	0.009400	104	
Perylene	55:51	89187770		1.4307	210.1	210.1	0.002260	0.002260	105	
D 13C6-Indeno(1,2,3-cd)pyrene	57:55	25801265		1.0218	105.8	105.8	0.006135	0.006135	106	
Indeno[1,2,3-cd]pyrene	57:55	60358347		1.1249	208.0	208.0	0.002775	0.002775	104	
D 13C6-Dibenz(a,h)anthracene	57:59	30069399		1.0553	119.4	119.4	0.004757	0.004757	119	
Dibenz(a,h)anthracene	58:00	69284483		1.1314	203.7	203.7	0.002664	0.002664	102	
D 13C12-Benzo(ghi)perylene	58:23	35611098		1.2749	117.0	117.0	0.001616	0.001616	117	
Benzo[g,h,i]perylene	58:24	83746826		1.2838	183.2	183.2	0.002289	0.002289	91.59	

## QC Flag Legend

Processing Flags

## Reagents:

61HRPAHCS5a\_00002

Amount Added: 20.00

Units: uL



Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\d3240724c2b.d  
 Lims ID: CCV  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 24-Jul-2024 21:46:00 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033664-001  
 Operator ID: Xcalibur\_System Instrument ID: D3PAH  
 Sublist: chrom-EPA\_23\_\_PAH\*sub1  
 Method: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\EPA\_23\_\_PAH.m  
 Limit Group: HR - HRPAAH ICAL  
 Last Update: 24-Jul-2024 23:01:23 Calib Date: 20-Jun-2024 01:09:00  
 Integrator: RTE  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
 Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
 Process Host: CTX1607

First Level Reviewer: Q9DB

Date: 24-Jul-2024 23:01:23

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:26	11:26	0	0.663	42038207	14463216	759	1897	19056		
Naphthalene											
128.0626	11:26	11:26	0	1.001	103119812	36666548	1740	4350	21073		
13C6-2-Methylnaphthalene											
148.0984	13:48	13:48	0	0.801	19839668	8930288	99	247	90205		
2-Methylnaphthalene											
142.0783	13:48	13:48	0	1.000	46472749	22400257	373	932	60054		
13C6-Acenaphthylene											
158.0828	16:39	16:39	0	0.967	21727522	7663914	143	357	53594		
Acenaphthylene											
152.0626	16:39	16:39	0	1.000	58265546	20341455	520	1300	39118		
Acenaphthene-d10											
164.1404	17:13	17:13	0		14075062	4790508	108	270	44357		
13C6-Acenaphthene											
160.0984	17:21	17:21	0	1.007	13168106	4661361	170	425	27420		
Acenaphthene											
154.0783	17:21	17:21	0	1.000	30875961	10921277	290	725	37660		
13C6-Fluorene											
172.0984	19:37	19:37	0	1.139	12507661	3898885	44	110	88611		
Fluorene											
166.0783	19:38	19:38	0	1.001	30937264	9796268	227	567	43155		
13C6-Phenanthrene											
184.0984	24:59	24:59	0	0.709	19407043	4527301	91	227	49751		E
Phenanthrene											
178.0783	24:59	24:59	0	1.000	42128515	9780402	309	772	31652		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:12	25:12	0	0.715	14746053	3459493	18	45	192194		
13C6-Anthracene											
184.0984	25:18	25:18	0	0.718	15432099	3670886	91	227	40339		E
Anthracene											
178.0783	25:19	25:19	0	1.000	41572824	10118066	309	772	32745		
13C6-Fluoranthrene											
208.0984	33:42	33:42	0	0.956	37781597	7546185	299	747	25238		E
Fluoranthene											
202.0783	33:42	33:42	0	1.000	87439494	17973460	279	697	64421		
Pyrene-d10											
212.1404	35:14	35:14	0		30934628	5840678	68	170	85892		
13C3-Pyrene											
205.0883	35:24	35:24	0	1.004	44490849	8563469	459	1147	18657		E
Pyrene											
202.0783	35:24	35:24	0	1.000	92584093	18422672	279	697	66031		
13C6-Benzo(c)fluorene											
222.1134	39:05	39:05	0	0.706	17028527	3199526	90	225	35550		
13C6-Benzo(a)anthracene											
234.1140	45:54	45:54	0	1.302	34015181	6059565	443	1107	13678		
Benzo[a]anthracene											
228.0939	45:55	45:55	0	1.000	72134279	13257873	530	1325	25015		
13C6-Chrysene											
234.1140	46:10	46:10	0	1.310	38739154	6708833	443	1107	15144		
Chrysene											
228.0939	46:11	46:11	0	1.000	81122218	14387857	530	1325	27147		
13C6-Benzo(b)fluoranthene											
258.1140	54:31	54:31	0	0.984	34726961	9527532	107	267	89042		
Benzo[b]fluoranthene											
252.0939	54:31	54:31	0	1.000	76121872	21812717	130	325	167790		
13C12-Benzo(j)fluoranthene											
264.1336	54:33	54:33	0	0.985	32702009	8235446	391	977	21063		
13C6-Benzo(k)fluoranthene											
258.1140	54:38	54:38	0	0.986	44559353	11085548	107	267	103603		E
Benzo[k]fluoranthene											
252.0939	54:38	54:38	0	1.000	94067473	22240237	130	325	171079		
Benzo(e)pyrene-d12											
264.1692	55:24	55:24	0		23867485	8007332	359	897	22305		
Benzo[e]pyrene											
252.0939	55:29	55:29	0	1.000	80689865	27983983	130	325	215261		
13C4-Benzo(e)pyrene											
256.1073	55:29	55:29	0	1.002	41695837	13576600	246	615	55189		E
13C4-Benzo(a)pyrene											
256.1073	55:37	55:37	0	1.004	40886970	12842648	246	615	52206		E

Signal	RT (min.)	Adj RT (min.)	∅ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene	252.0939	55:37	55:37	0	1.000	83506420	27606964	130	325	212361	
Perylene-d12	264.1692	55:47	55:47	0	1.007	29670360	10049908	359	897	27994	E
Perylene	252.0939	55:51	55:51	0	1.001	89187770	29439033	130	325	226454	
13C6-Indeno(1,2,3-cd)pyrene	282.1140	57:55	57:55	0	1.046	25801265	9128970	201	502	45418	E
Indeno[1,2,3-cd]pyrene	276.0939	57:55	57:55	0	1.000	60358347	19739731	114	285	173156	
13C6-Dibenz(a,h)anthracene	284.1296	57:59	57:59	0	1.047	30069399	8361518	161	402	51935	E
Dibenz(a,h)anthracene	278.1096	58:00	58:00	0	1.000	69284483	18113385	101	252	179340	
13C12-Benzo(ghi)perylene	288.1342	58:23	58:23	0	1.054	35611098	9699839	66	165	146967	E
Benzo[g,h,i]perylene	276.0939	58:24	58:24	0	1.000	83746826	25418835	114	285	222972	

## QC Flag Legend

## Processing Flags

Reagents:

61HRPAHCS5a 00002

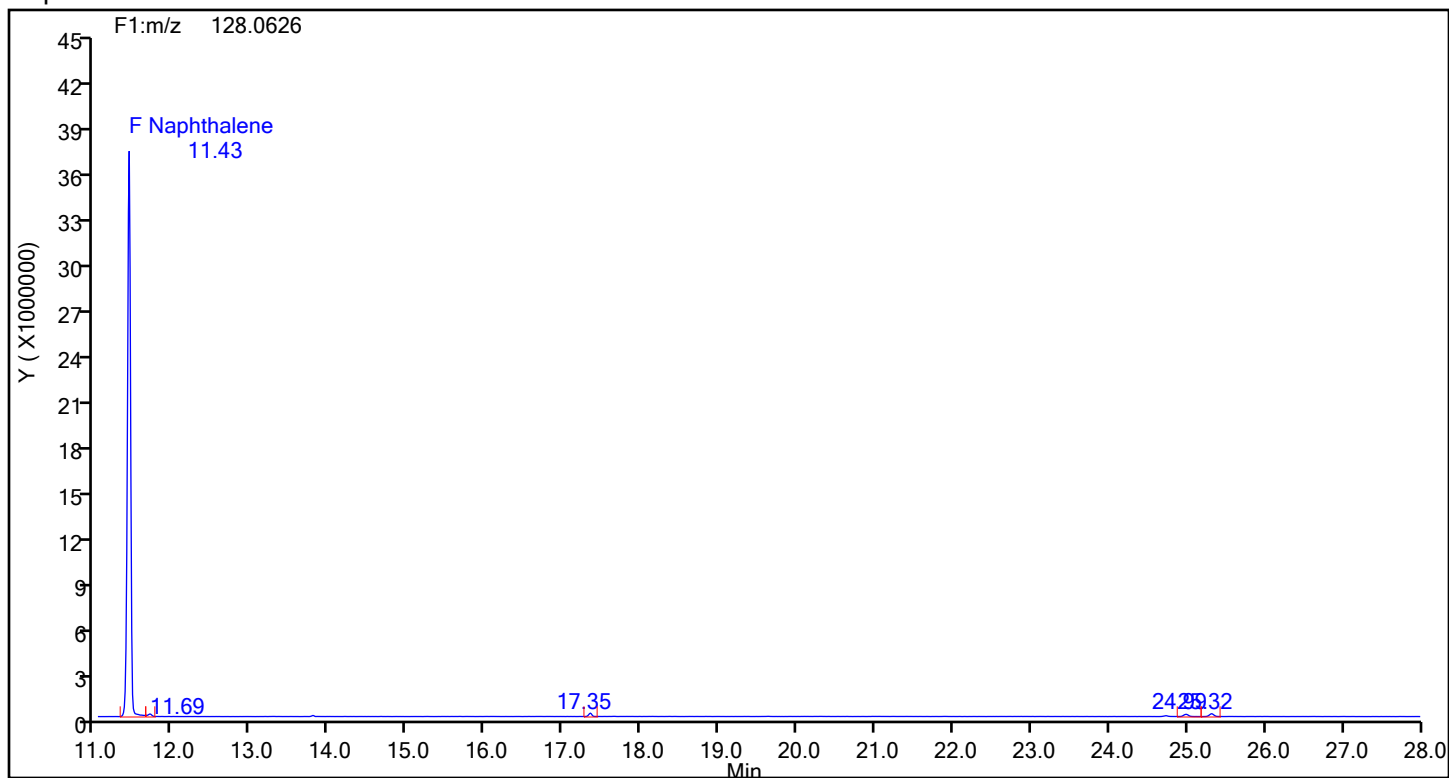
Amount Added: 20.00

Units: uL

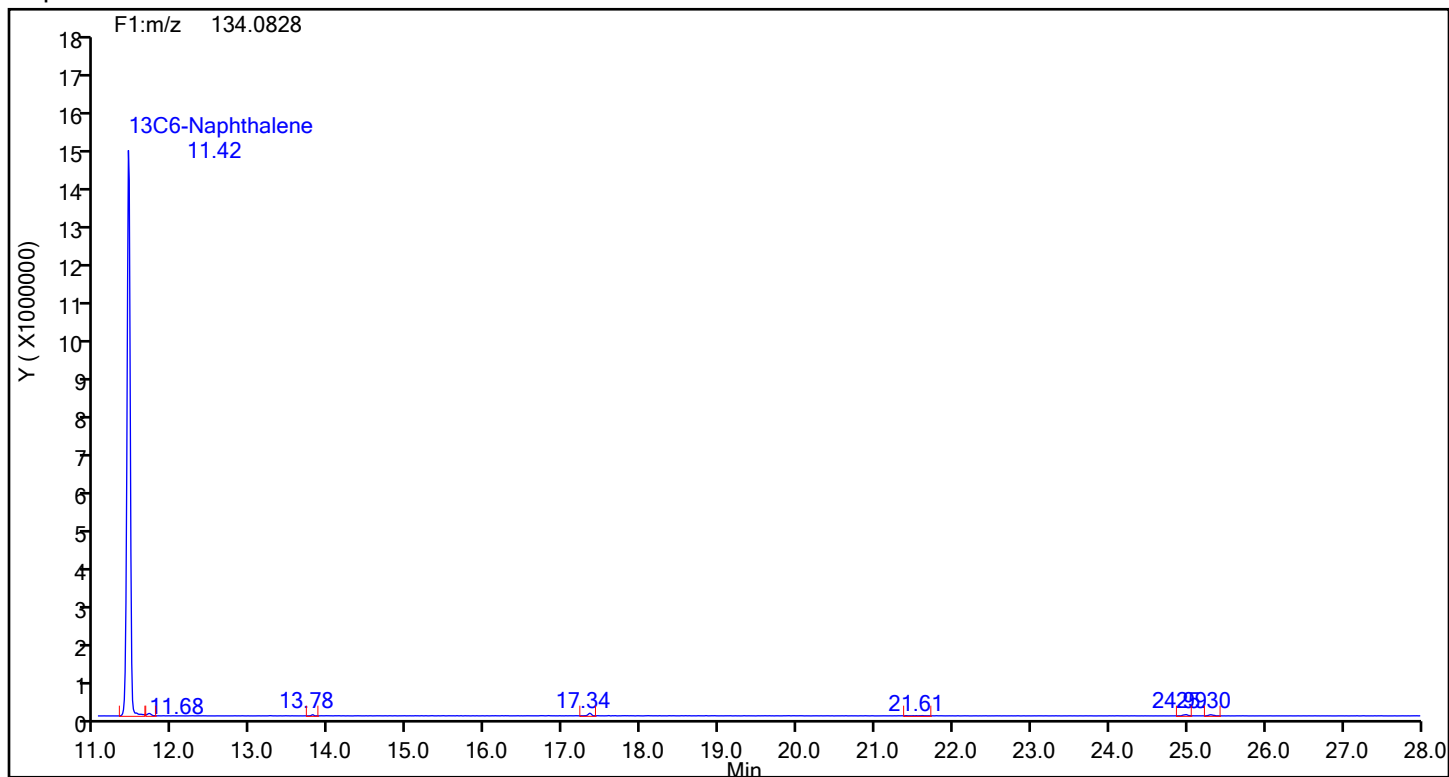
Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\3240724c2b.d		
Injection Date:	24-Jul-2024 21:46:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	89185	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Naphthalene			

Naphthalene



## Naphthalene Standards



Chrom Revision: 2.3 16-Jul-2024 14:17:34

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\d3240724c2b.d

Injection Date: 24-Jul-2024 21:46:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

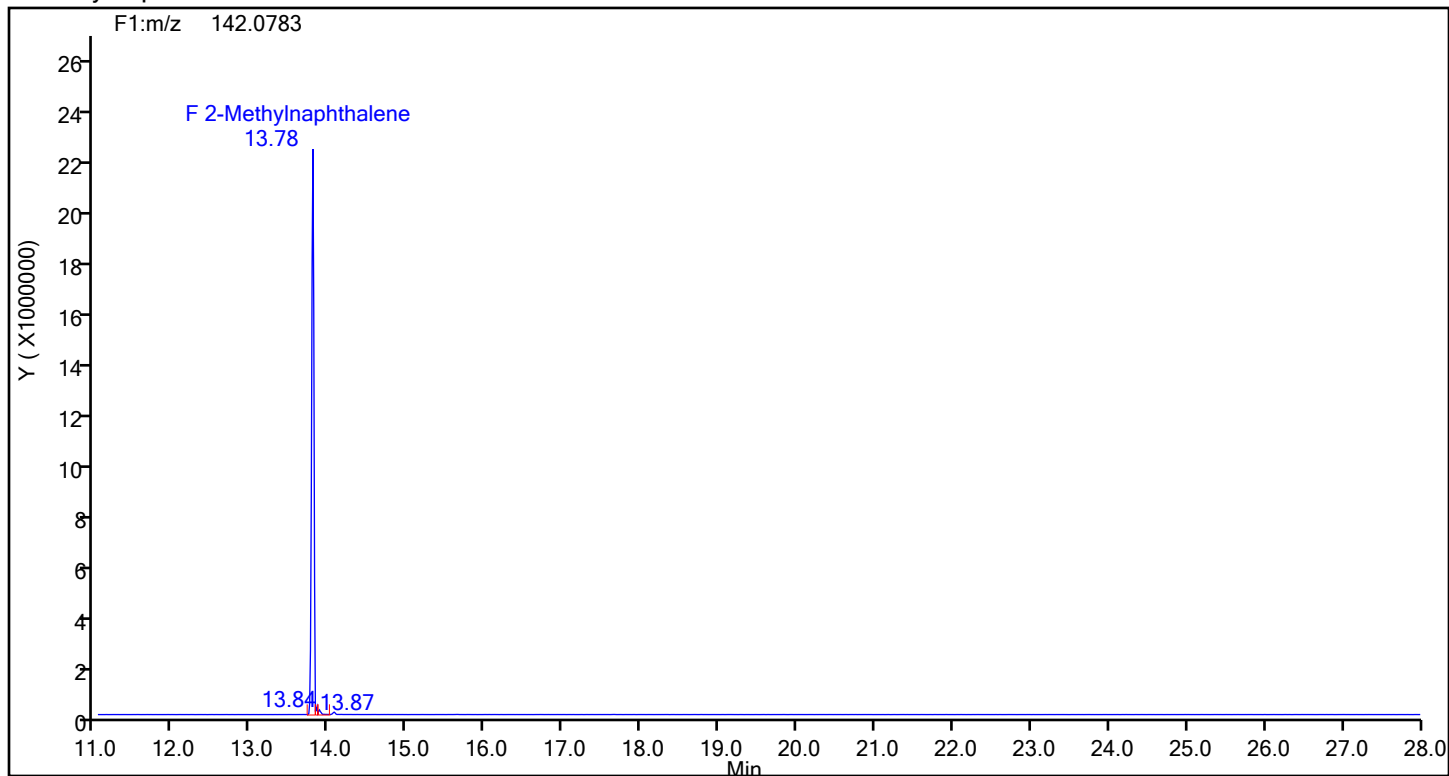
Worklist#: 89185

Sample Line#: 1

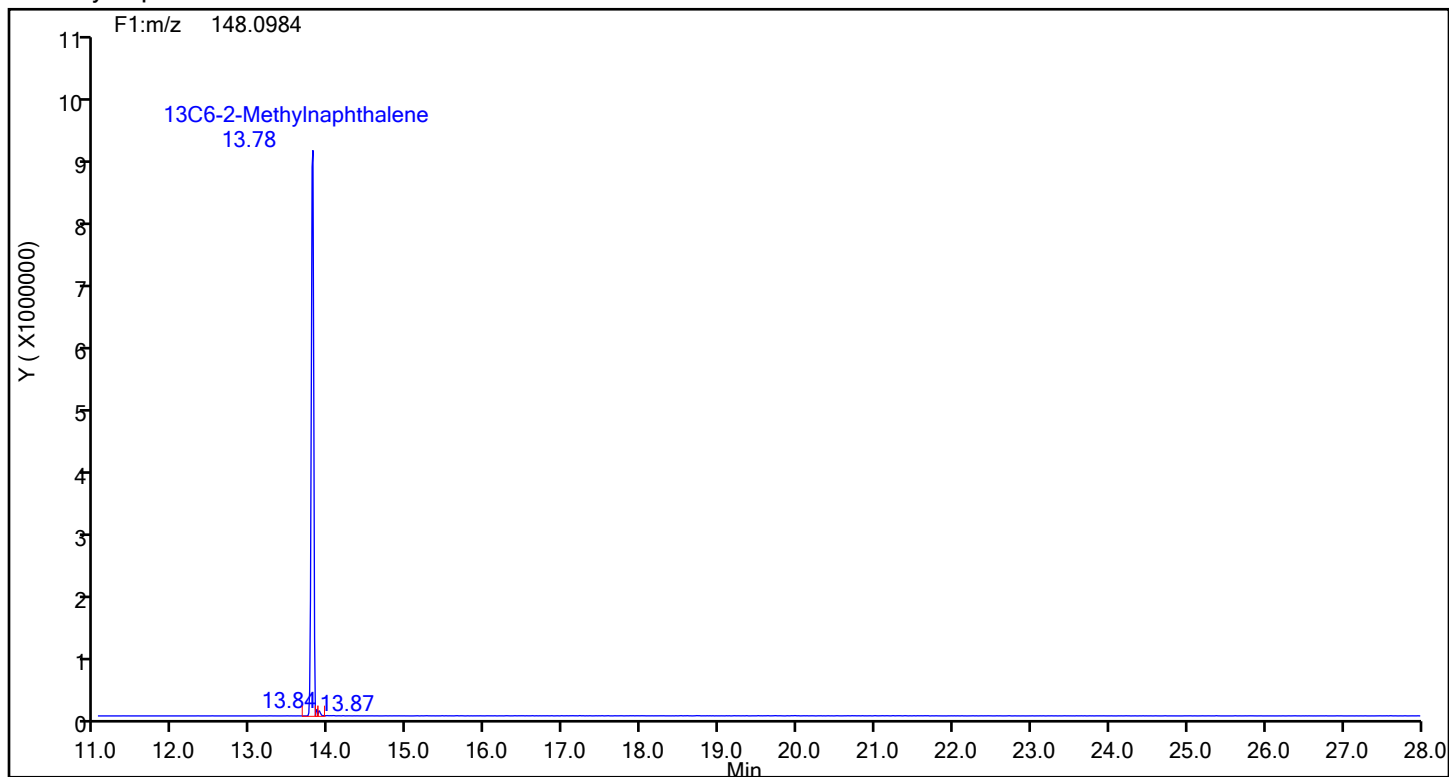
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## 2-Methylnaphthalene



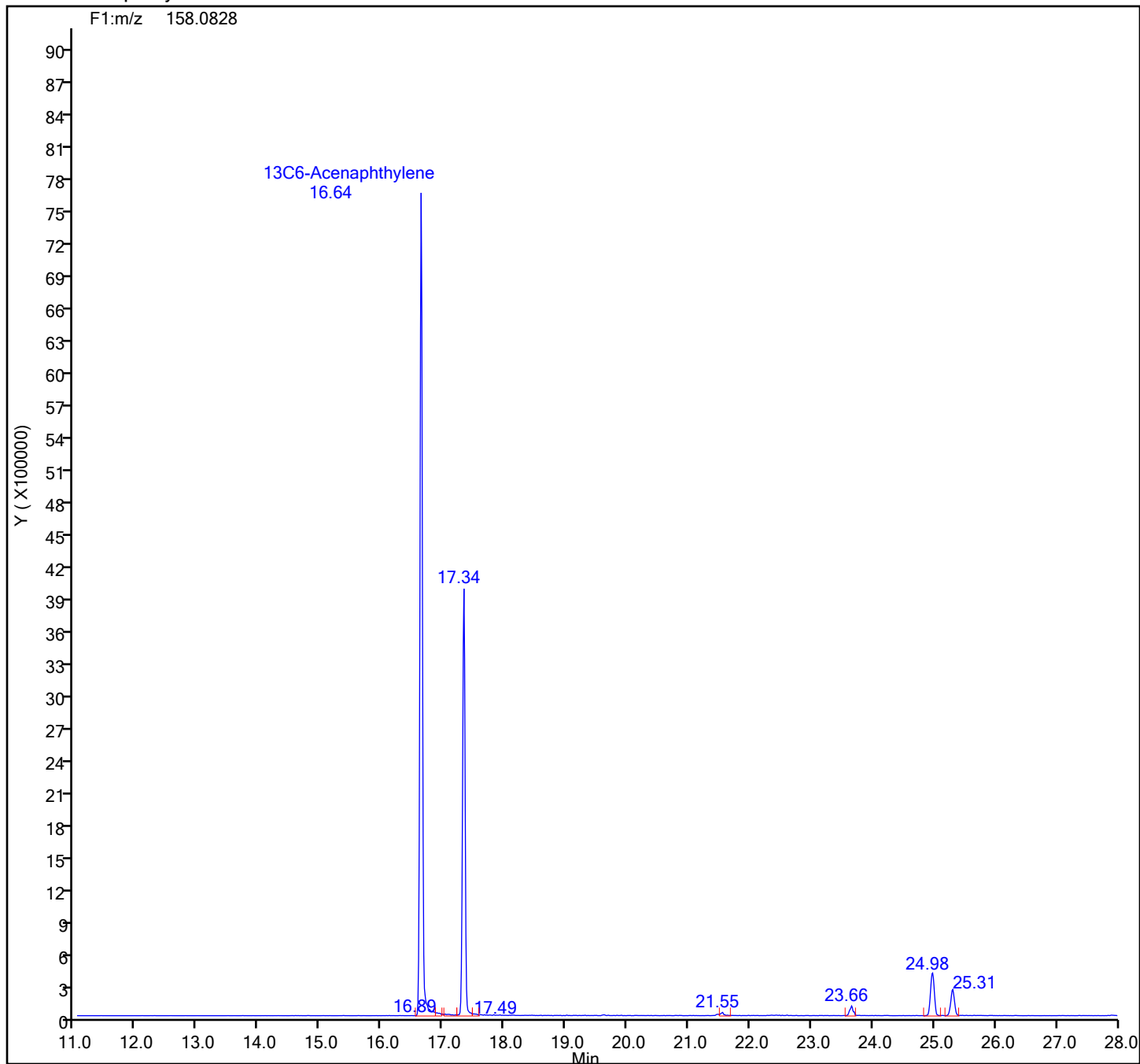
## 2-Methylnaphthalene Standards



## Eurofins Knoxville

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Injection Date: 24-Jul-2024 21:46:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

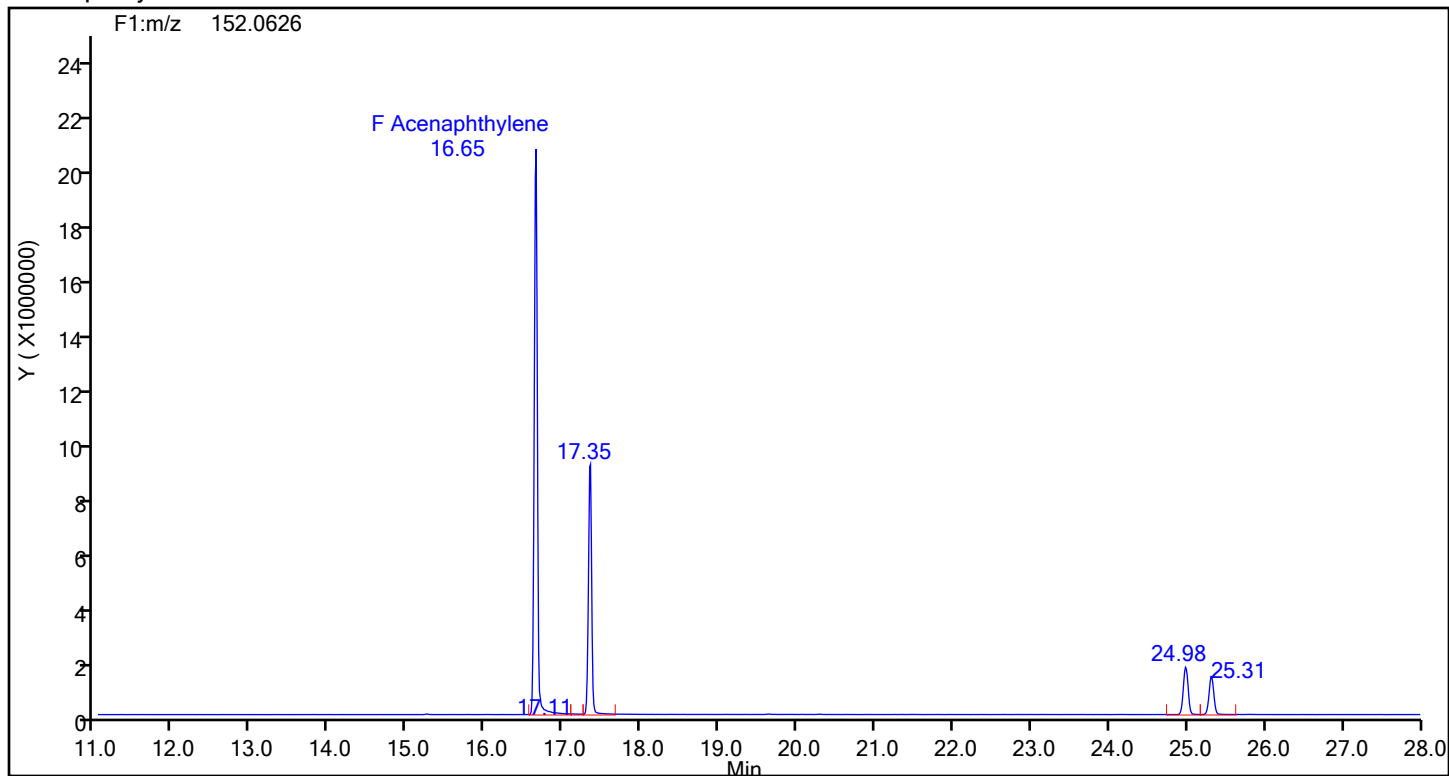
## 13C6-Acenaphthylene Standards



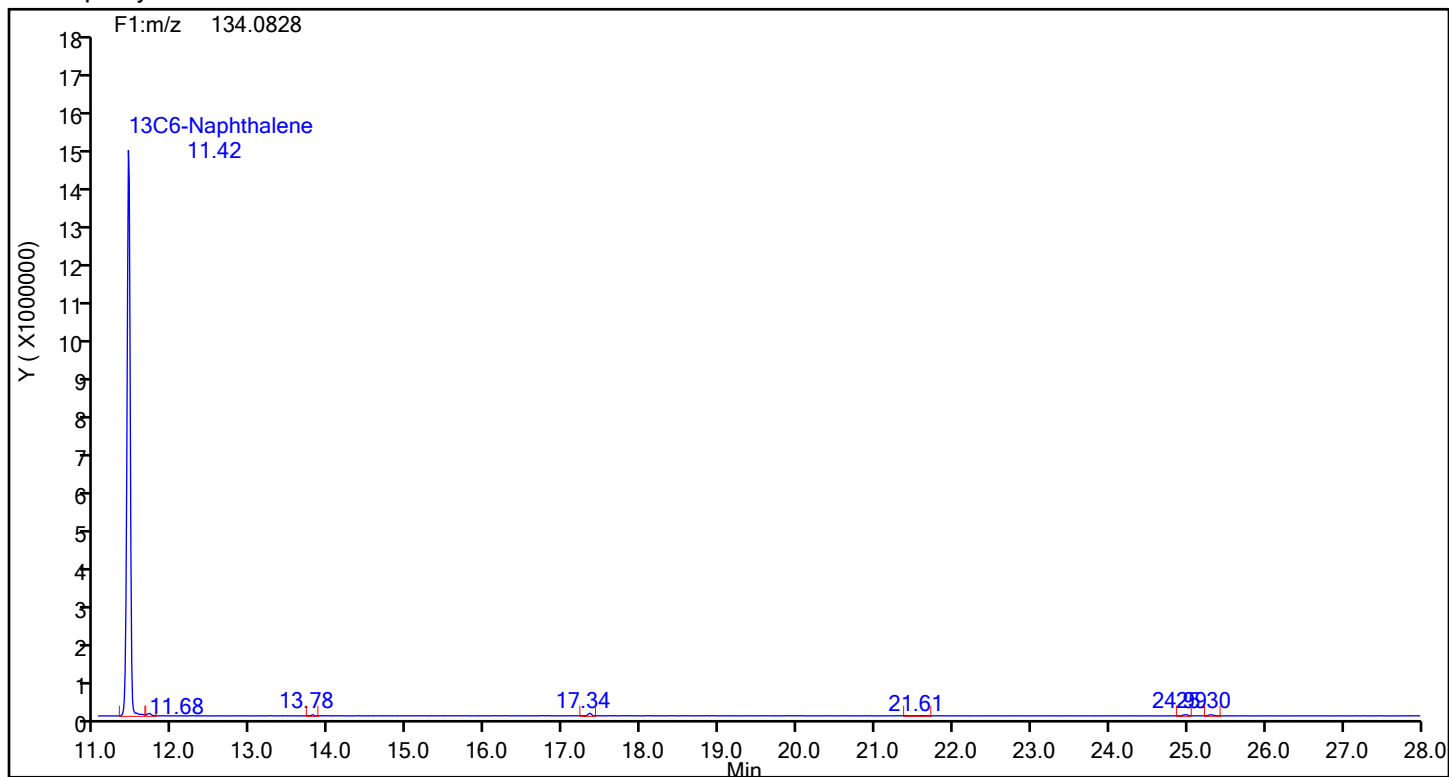
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240724-33664.b\d3240724c2b.d  
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



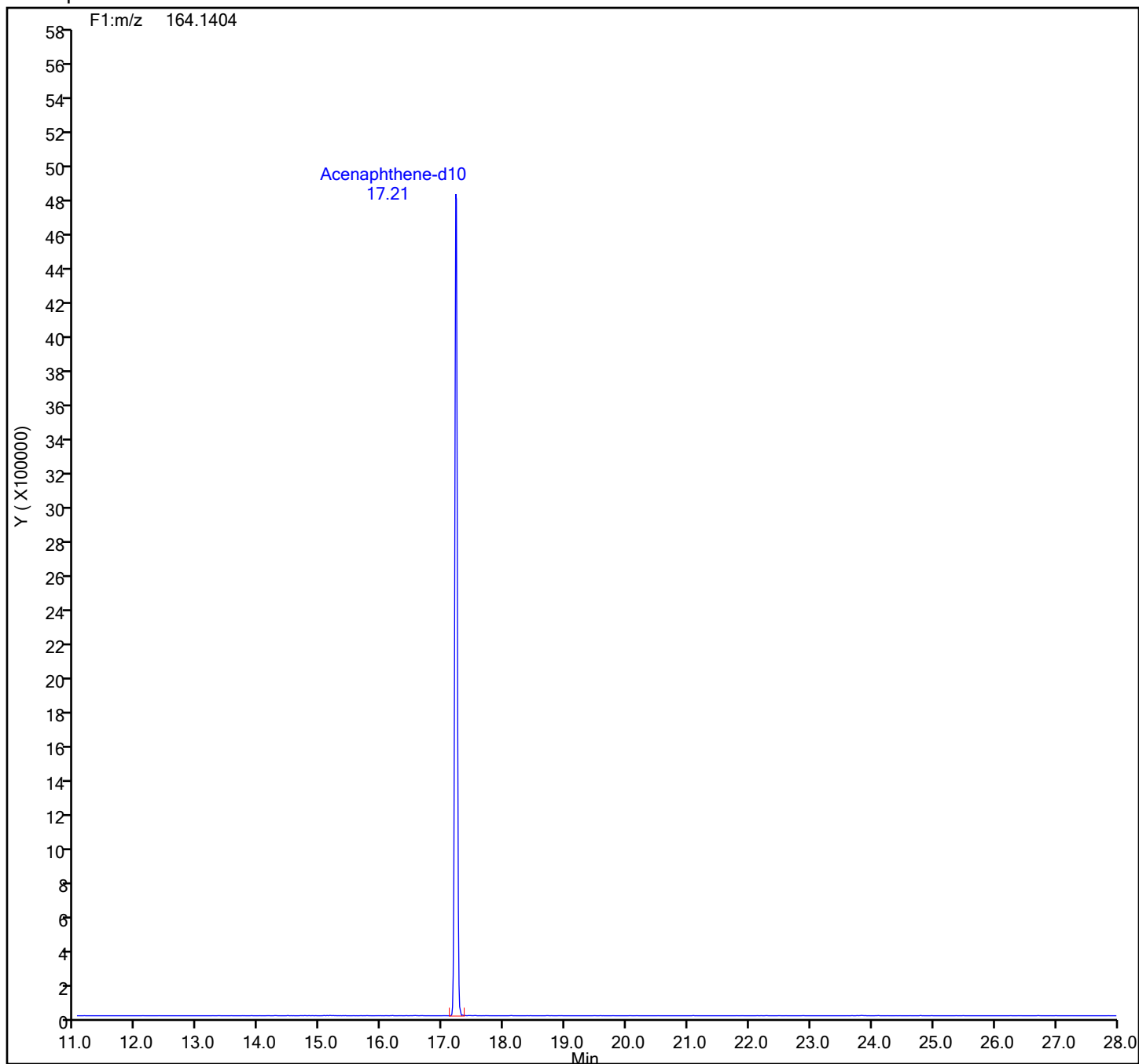
## Acenaphthylene Standards



## Eurofins Knoxville

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Injection Date: 24-Jul-2024 21:46:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene-d10 Standards

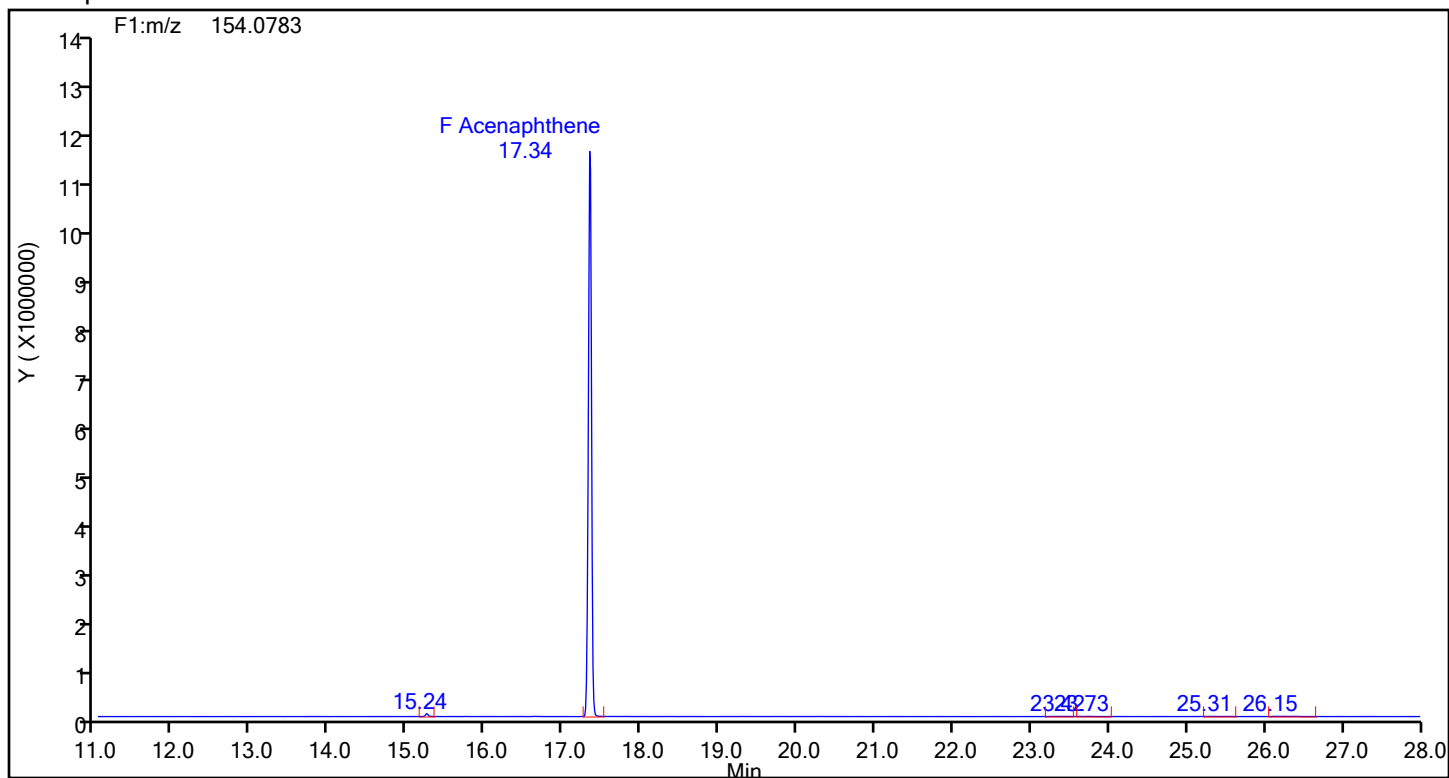




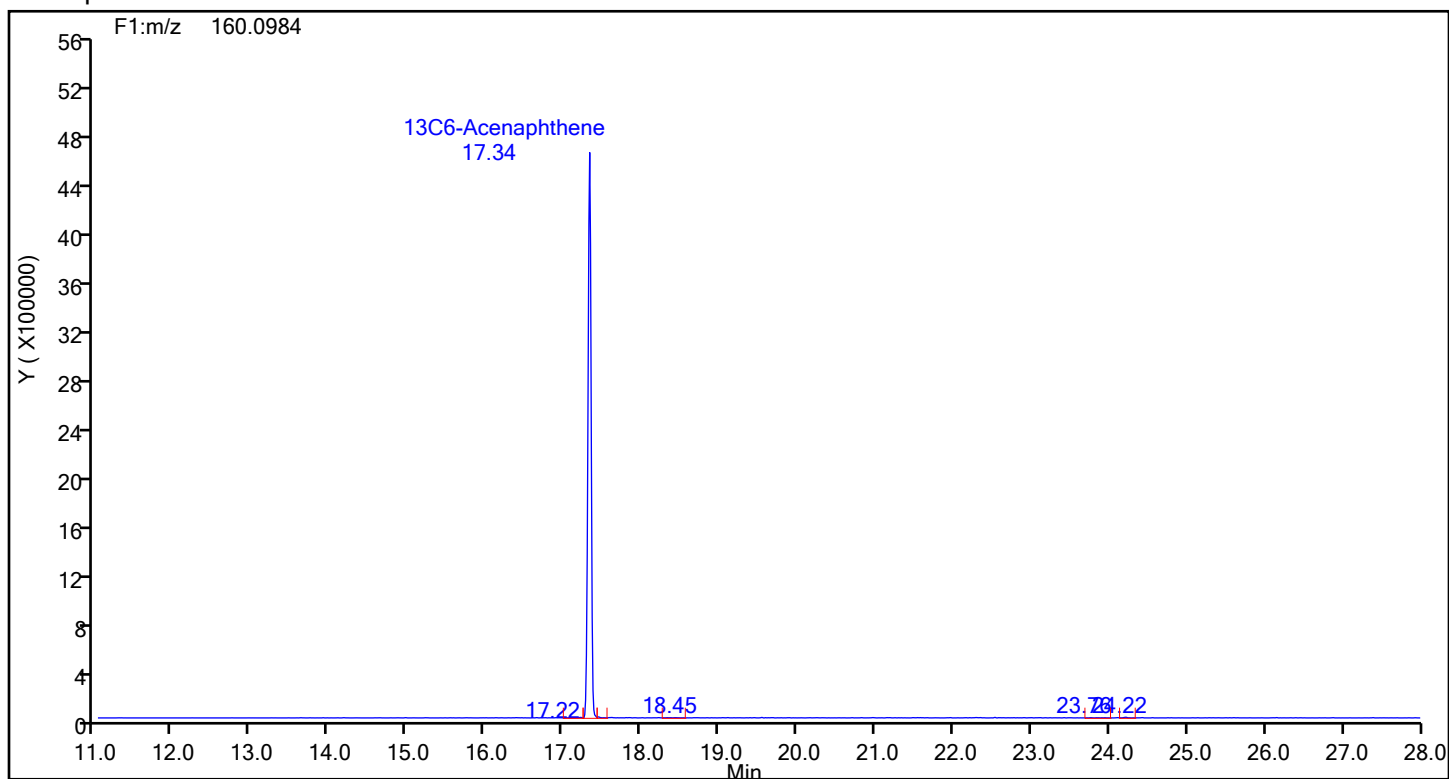
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



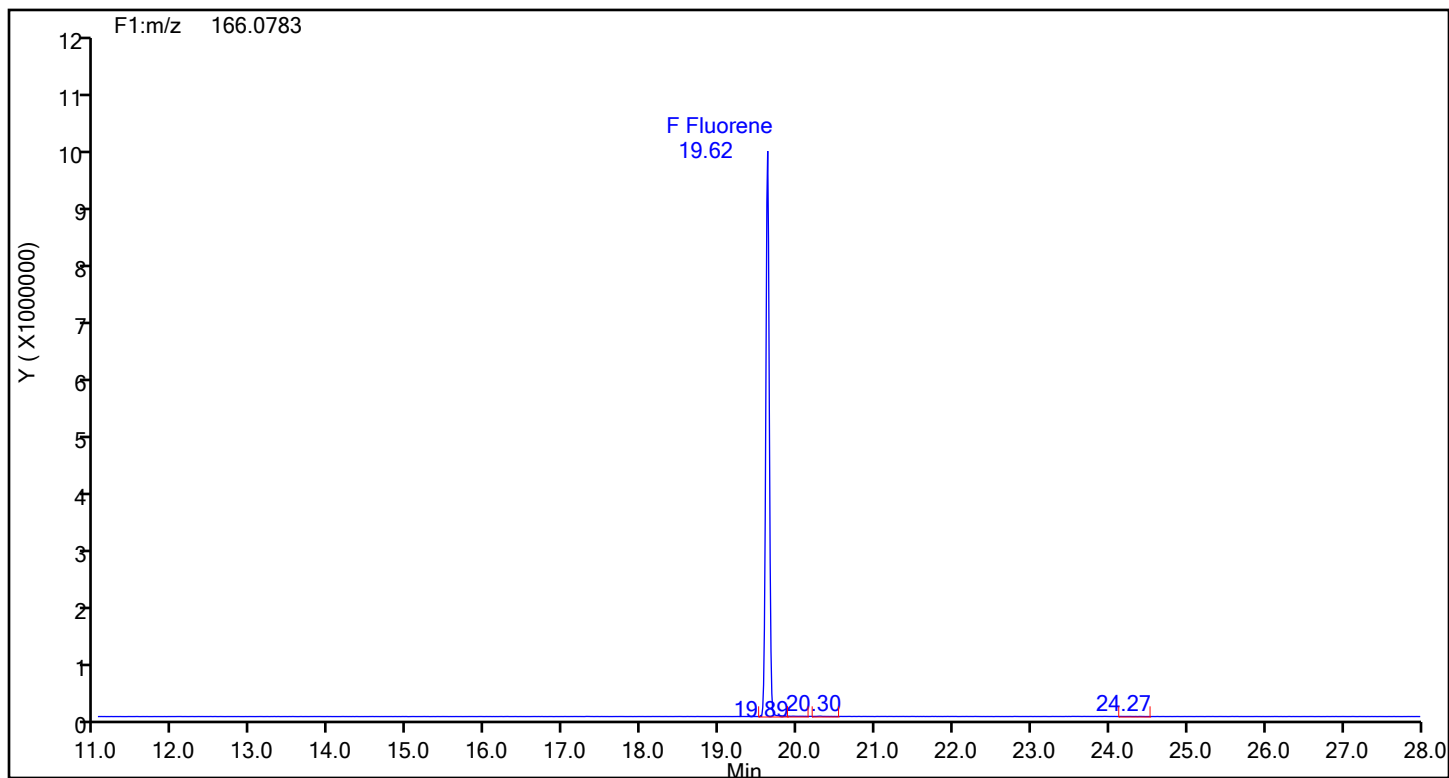
## Acenaphthene Standards



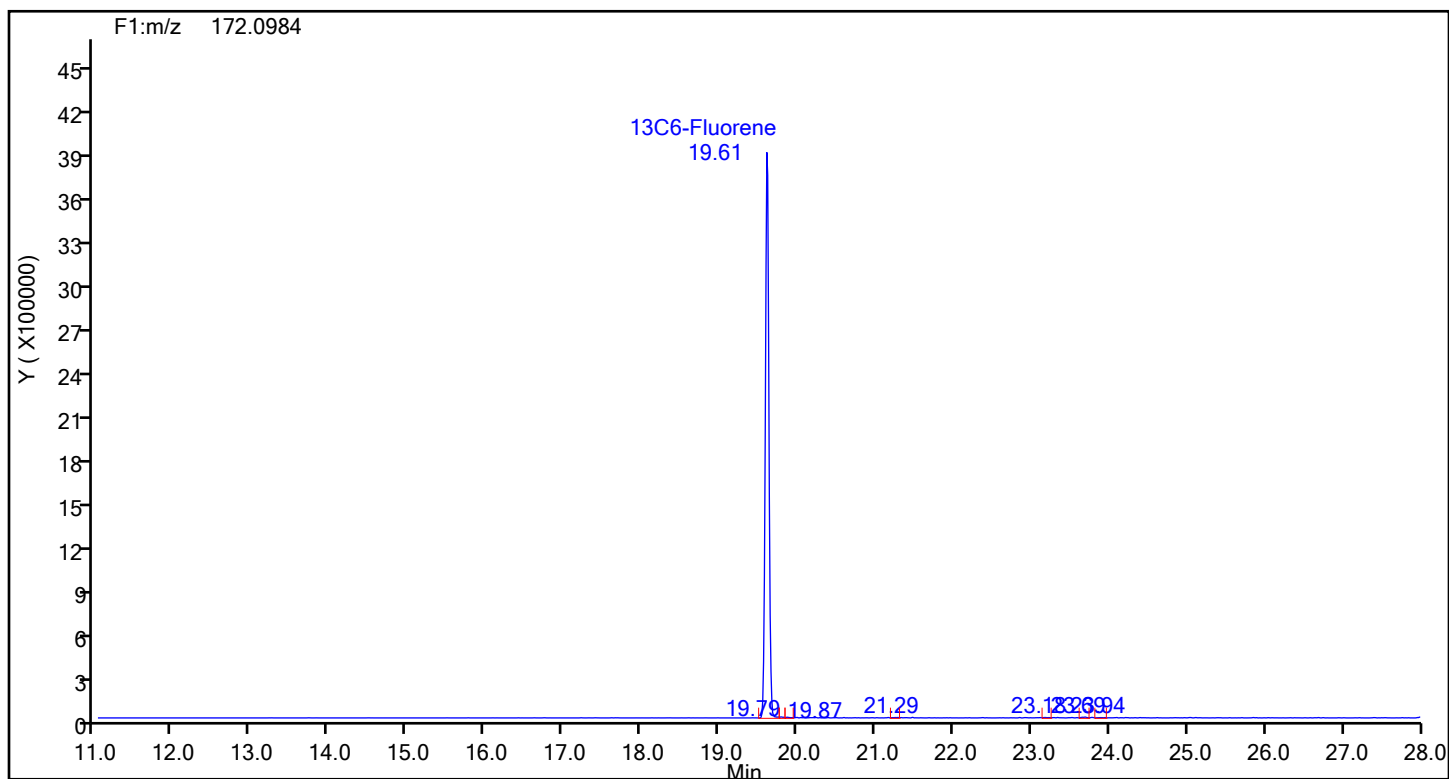
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene

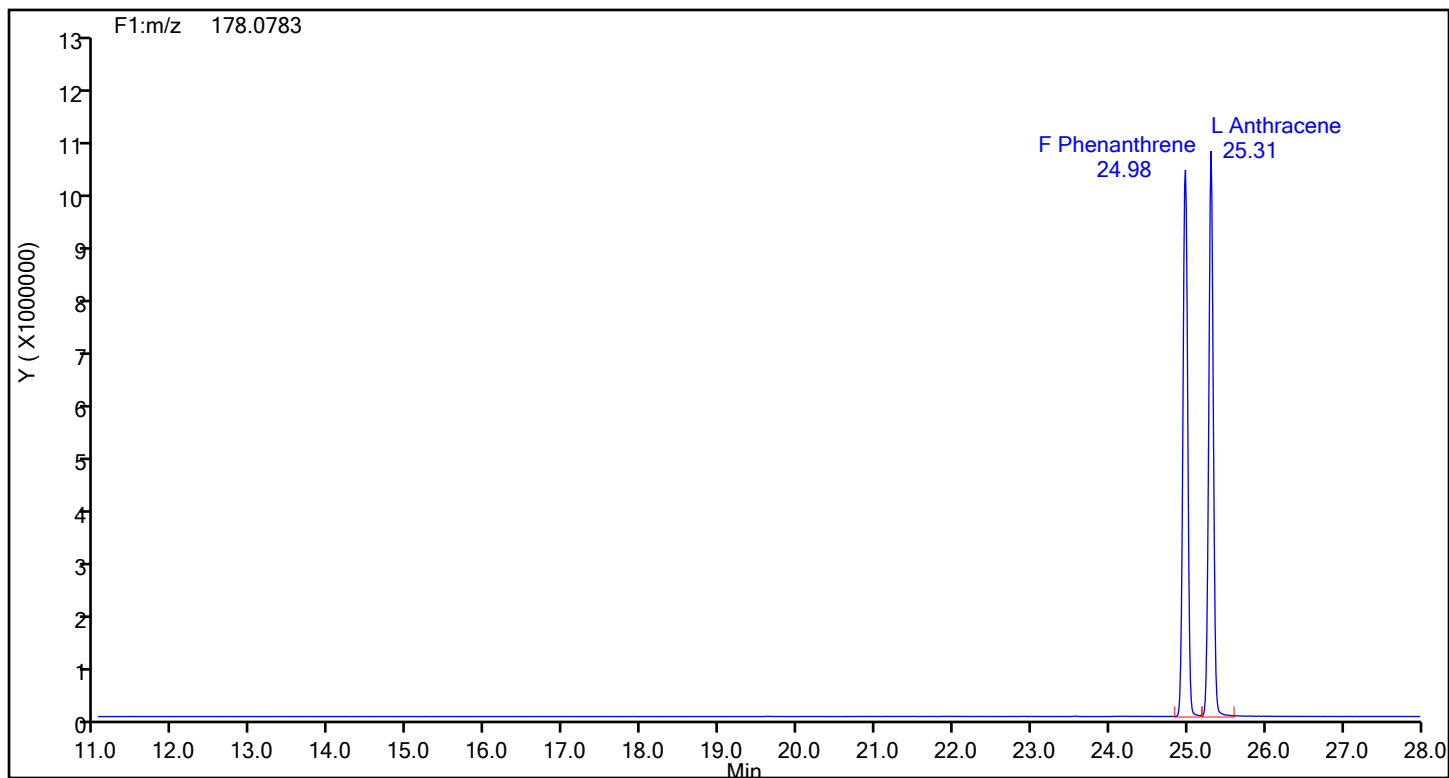


## Fluorene Standards

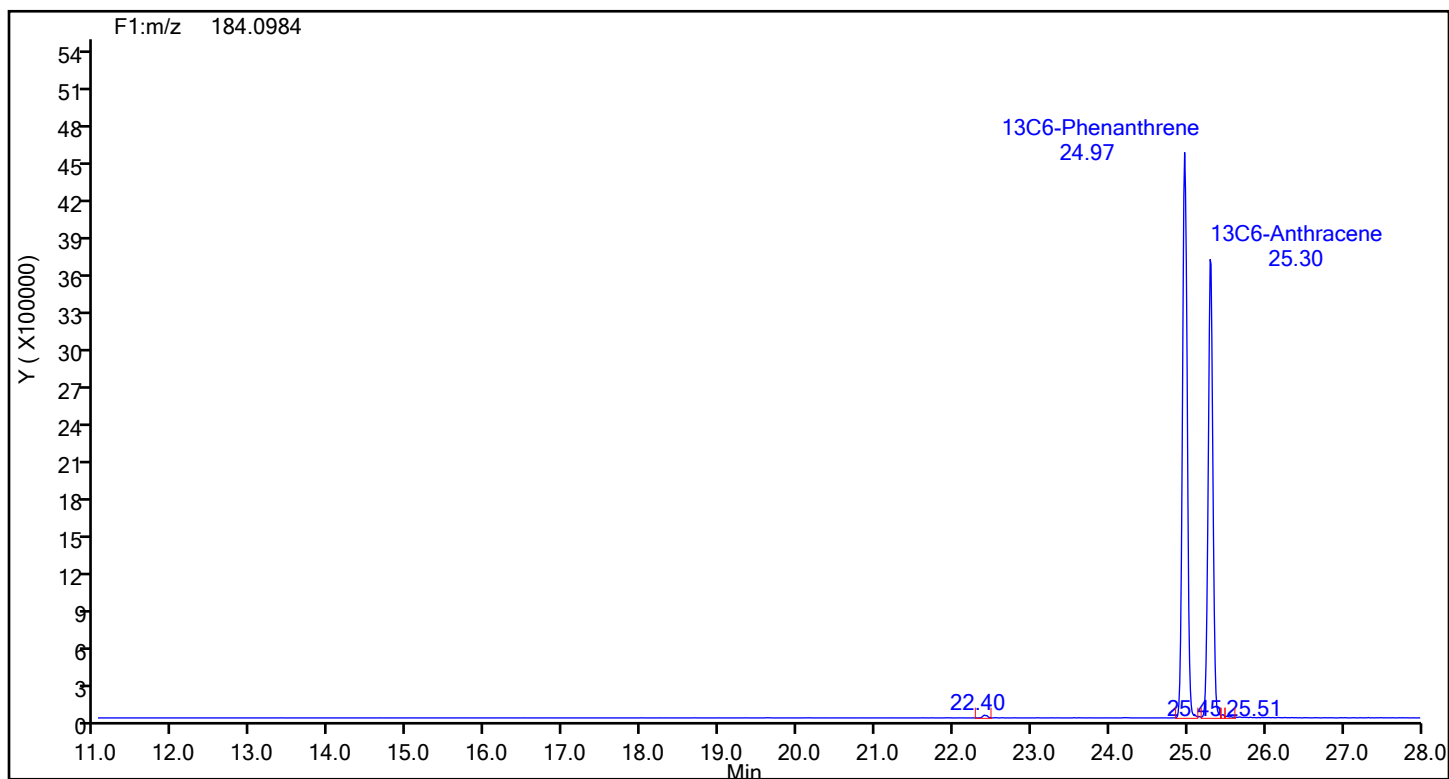


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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene



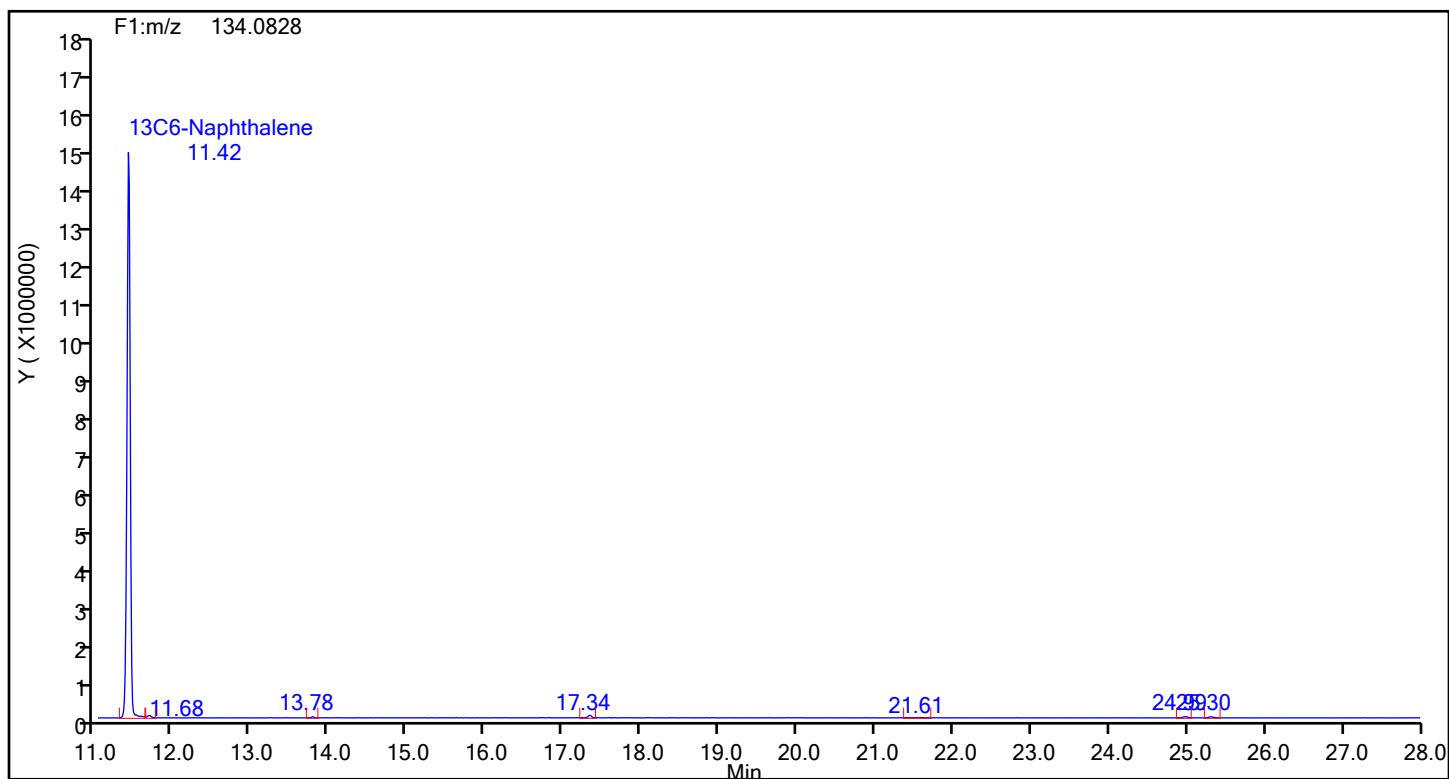
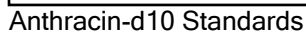
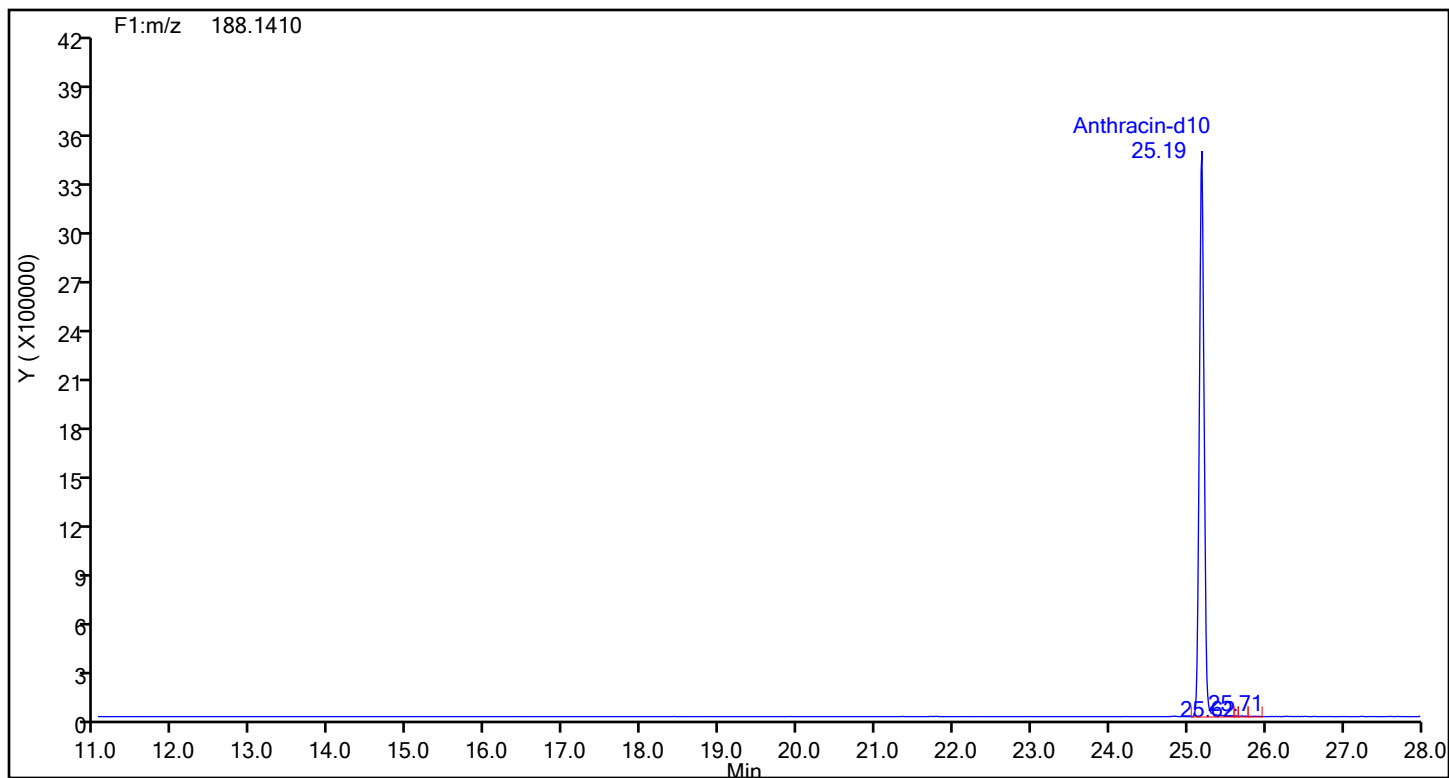
## Phenanthrene Standards



Chrom Revision: 2.3 16-Jul-2024 14:17:34

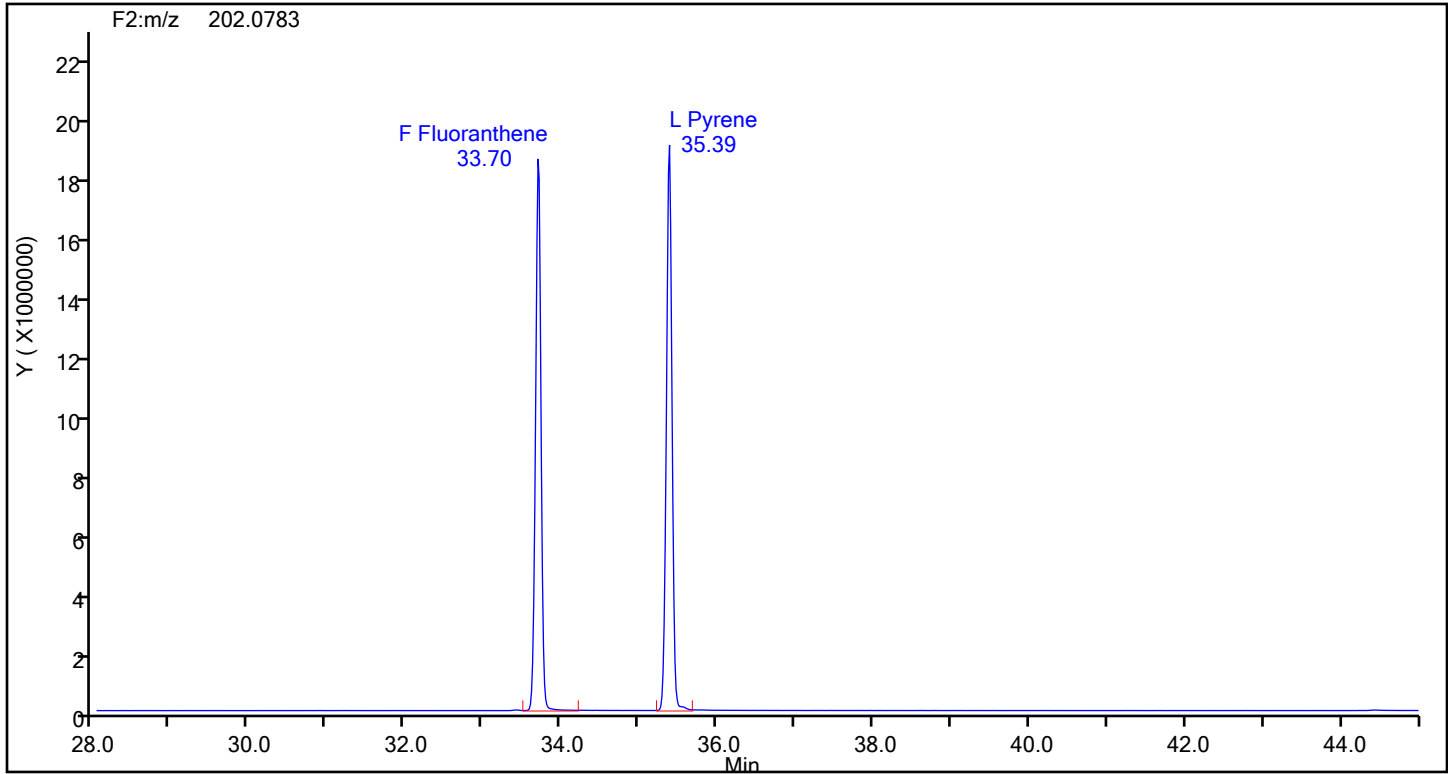
Eurofins Knoxville

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Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	89185	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Anthracin-d10			

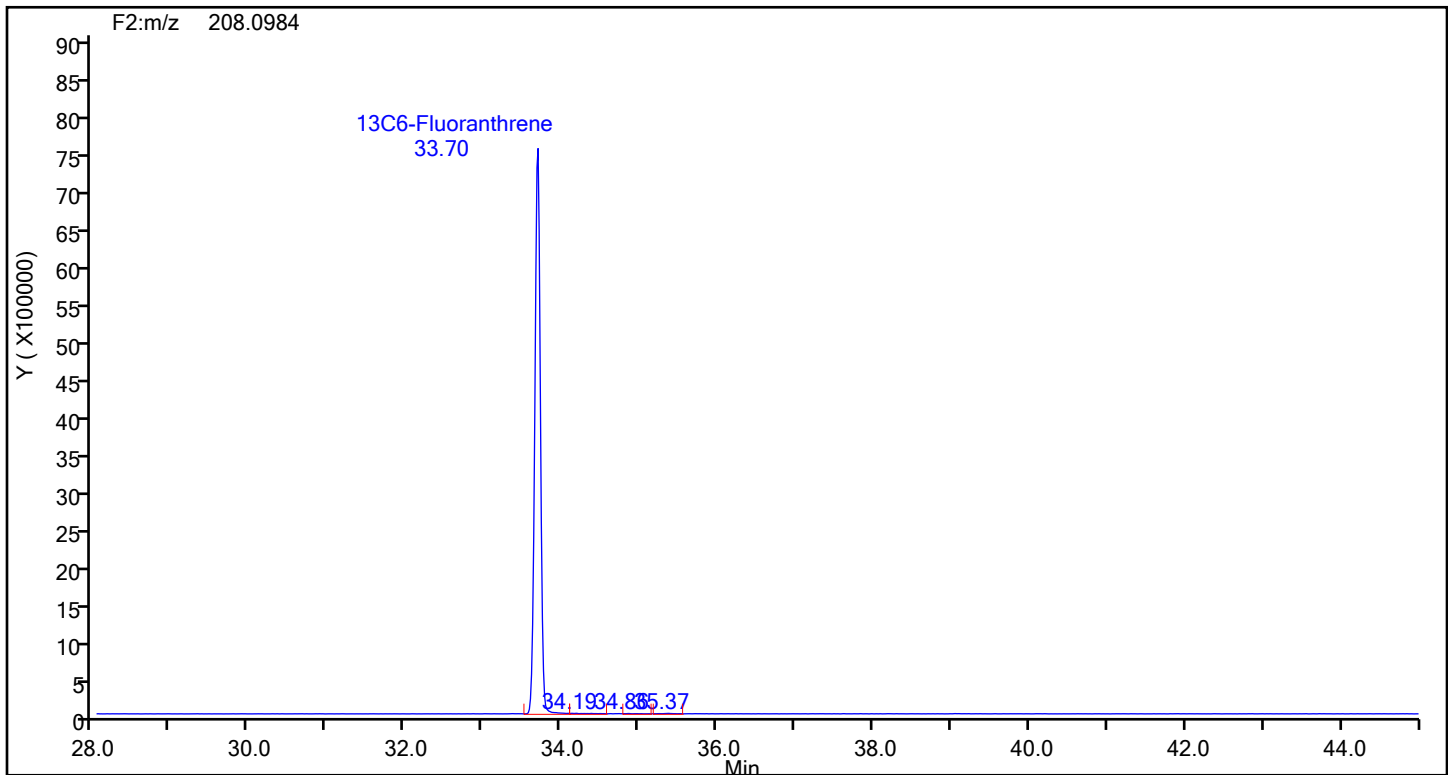


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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



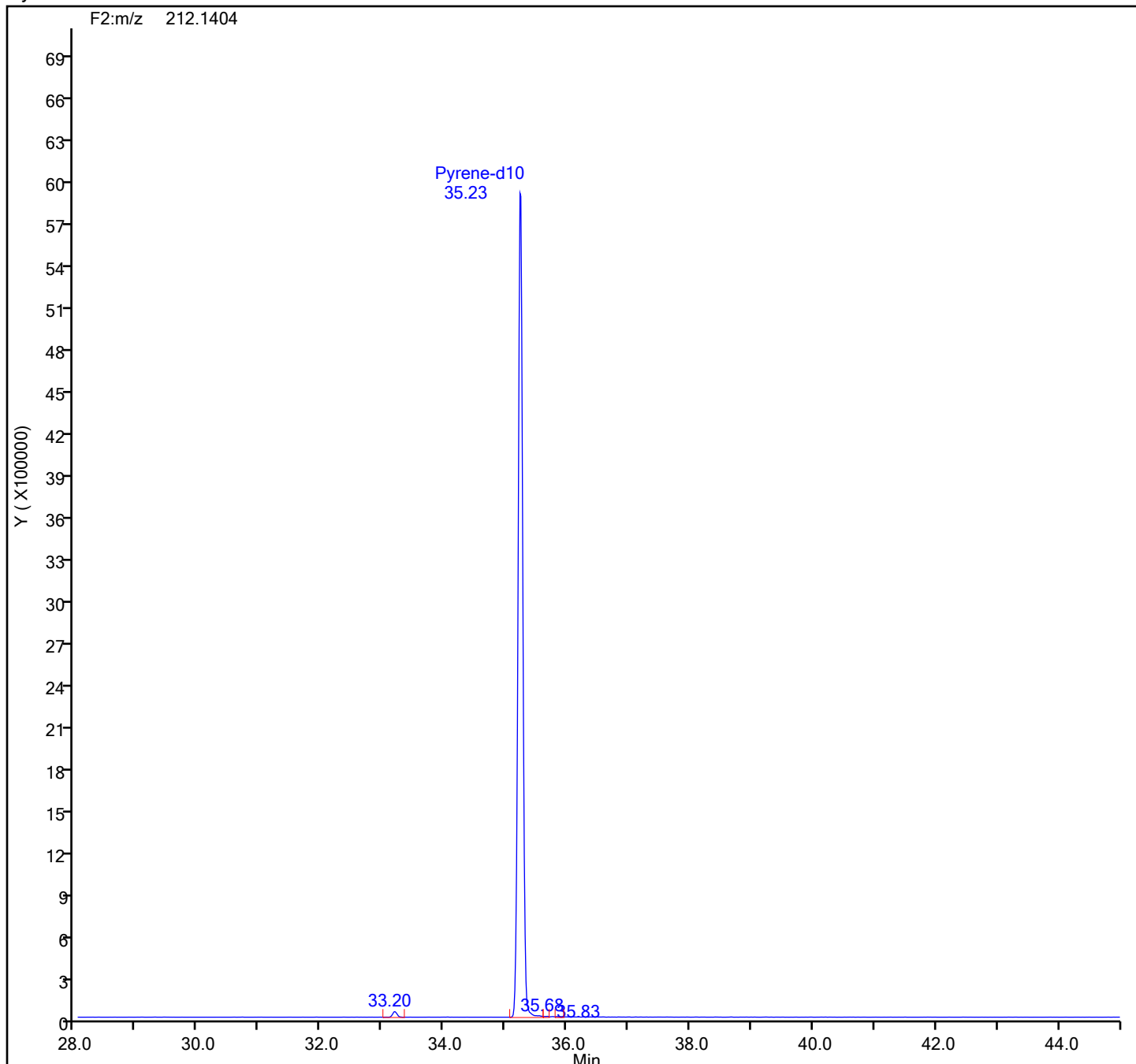
## Fluoranthene Standards



## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

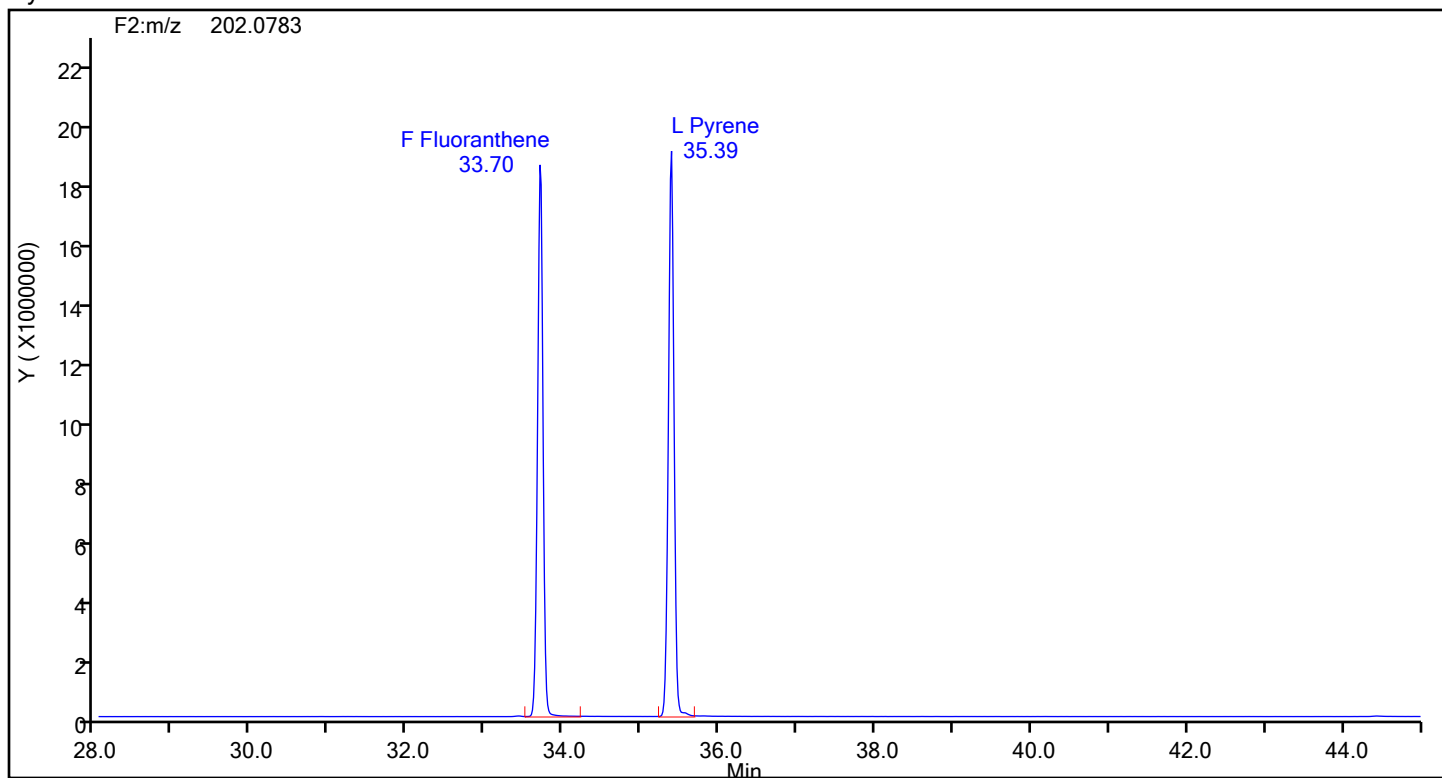
## Pyrene-d10 Standards



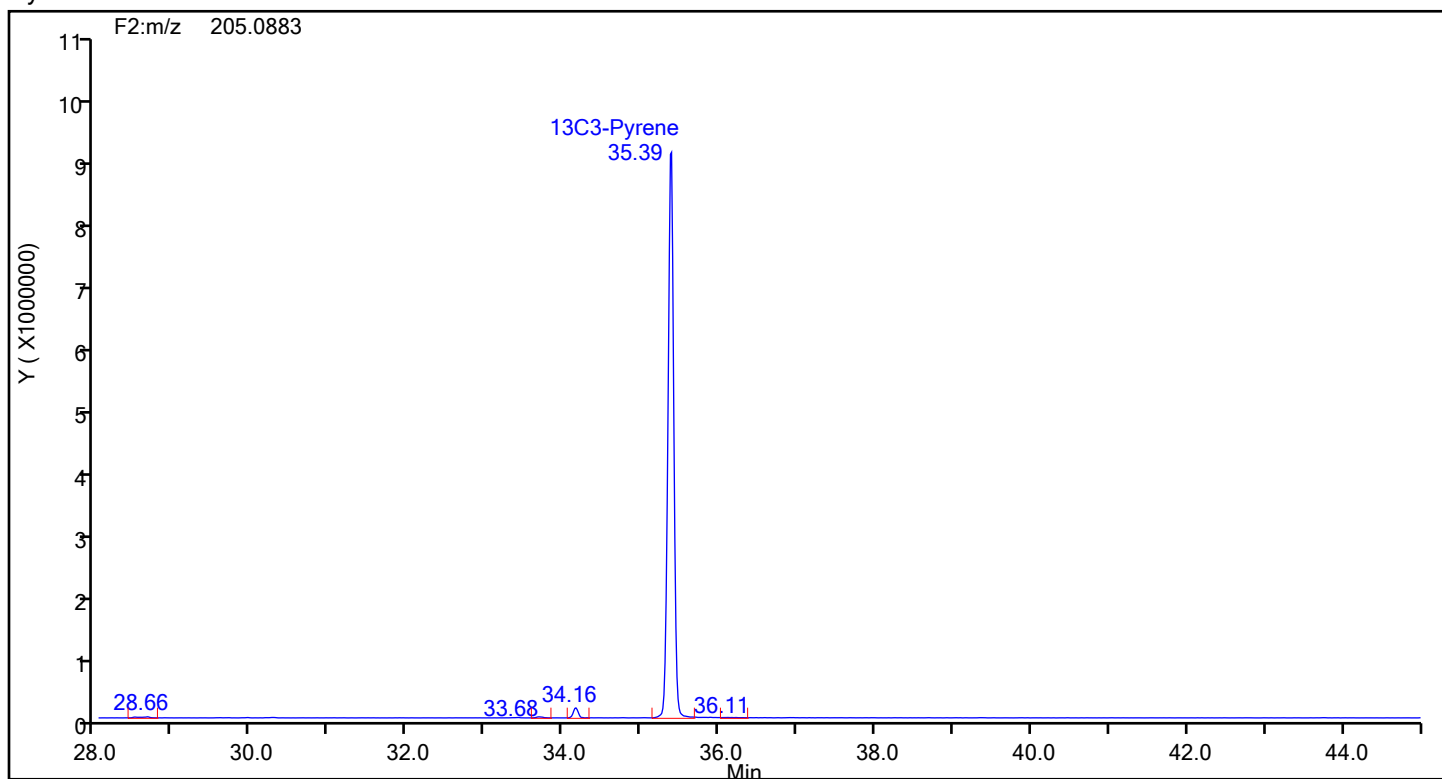
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Pyrene



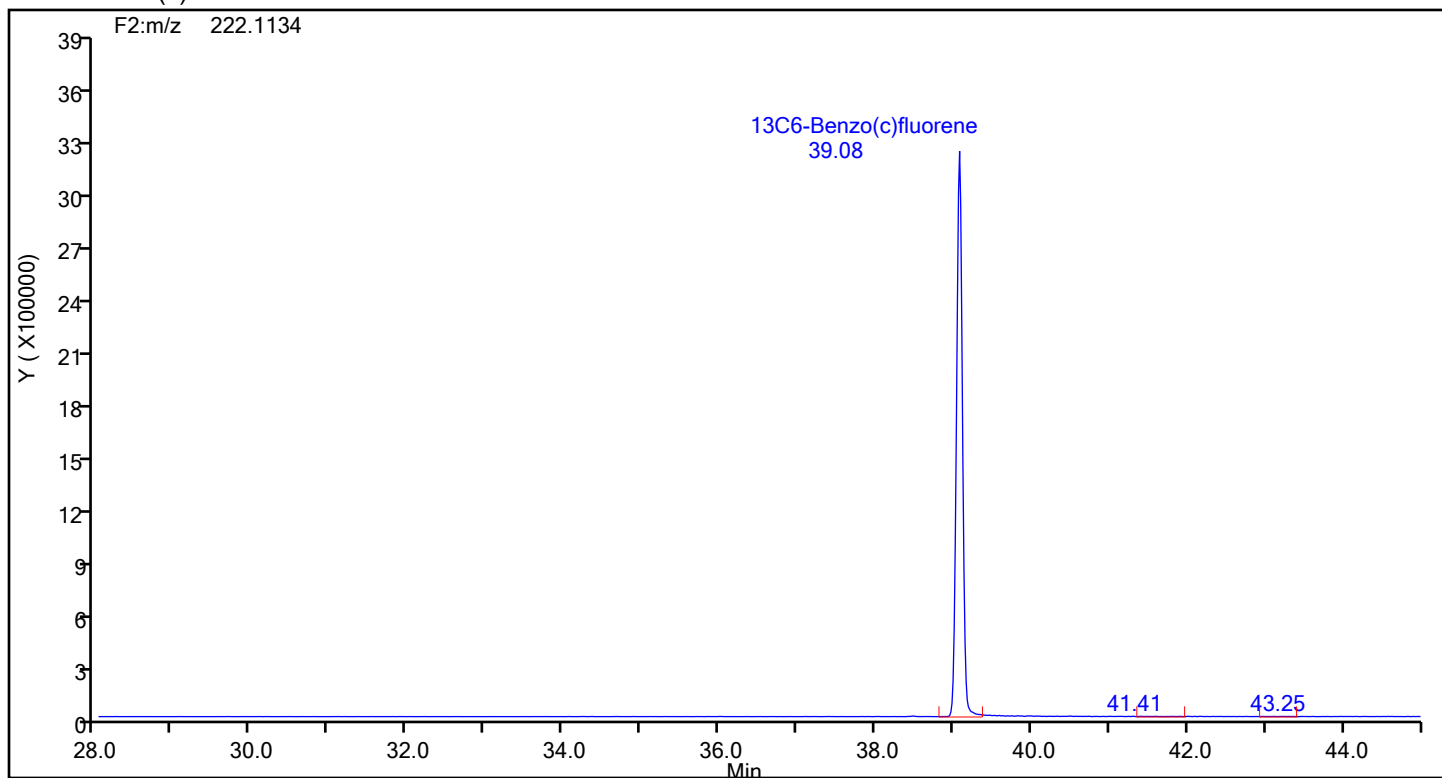
## Pyrene Standards



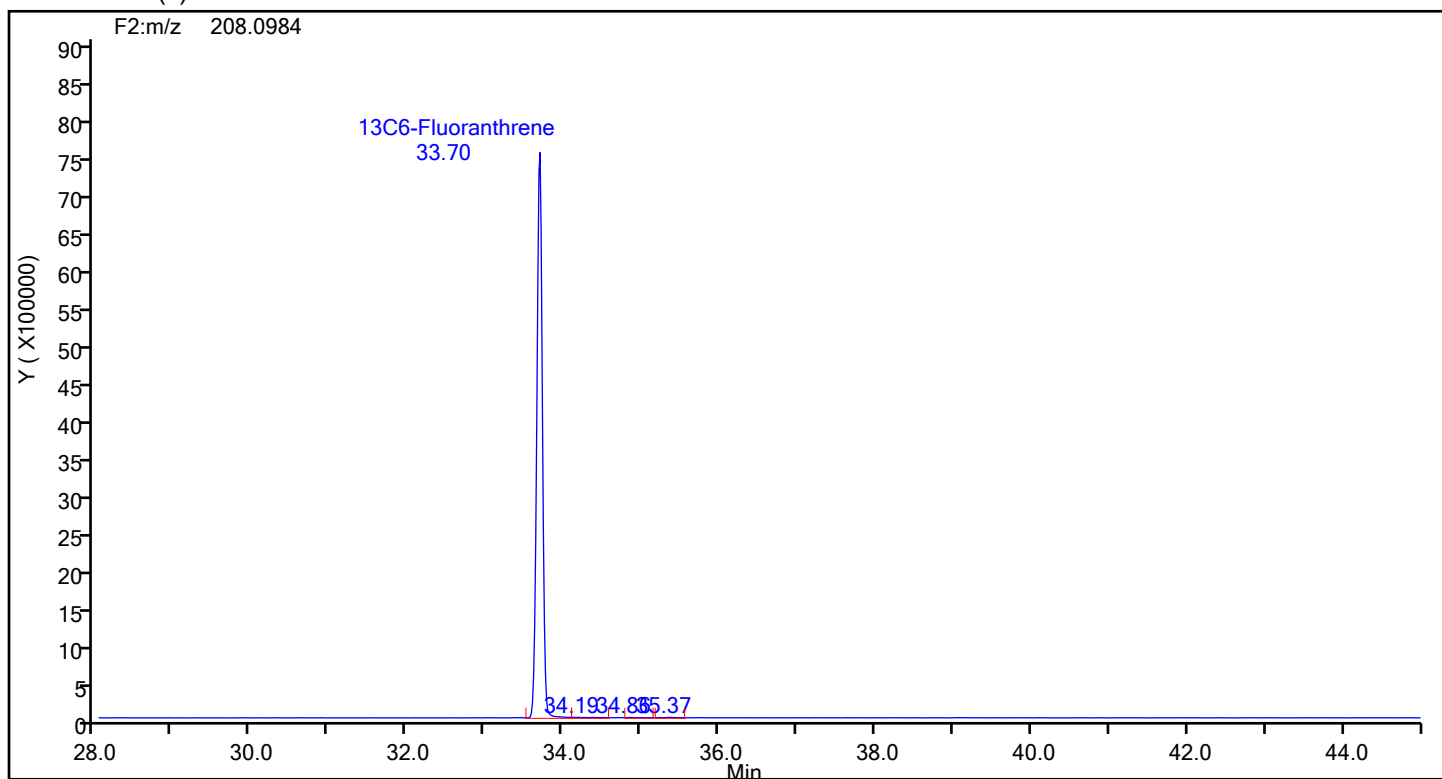
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C6-Benzo(c)fluorene



## 13C6-Benzo(c)fluorene Standards

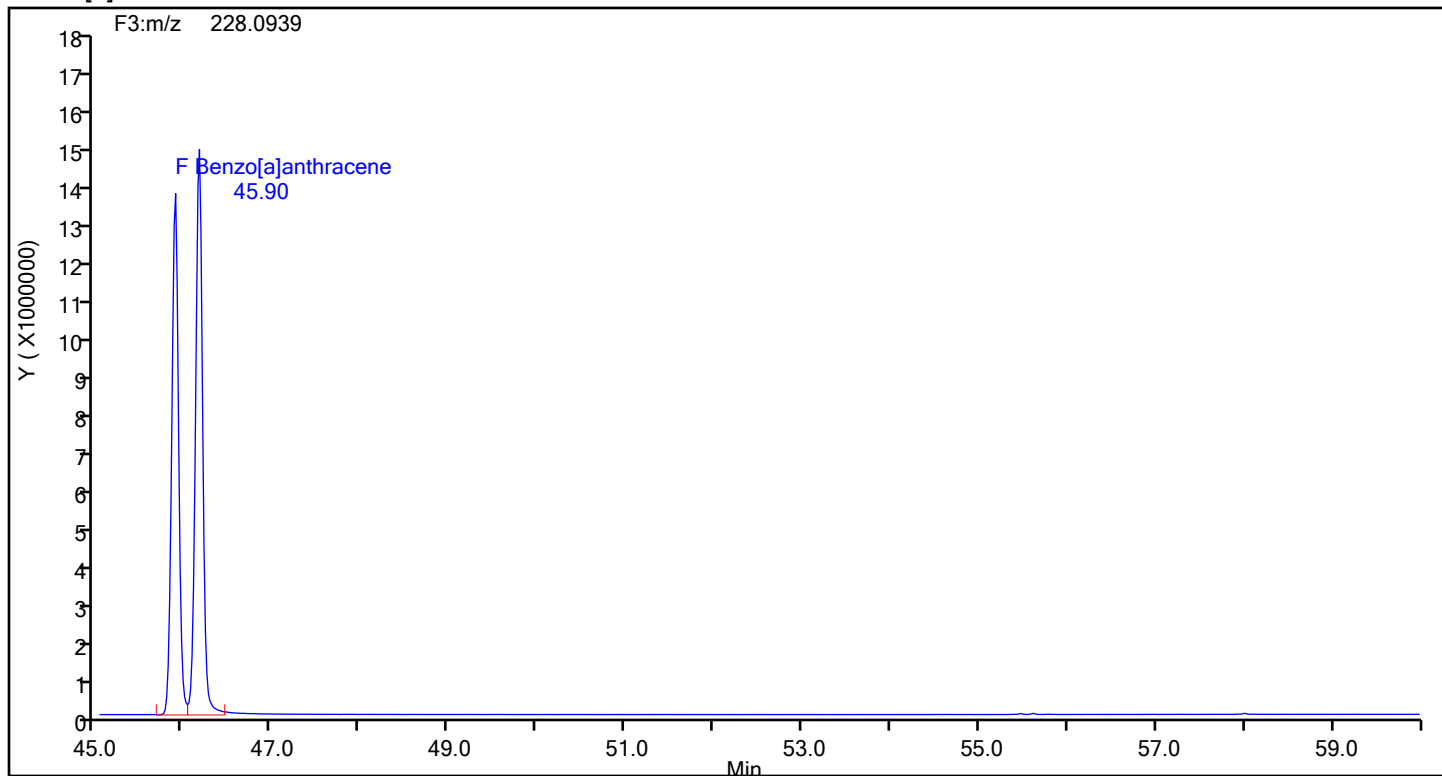




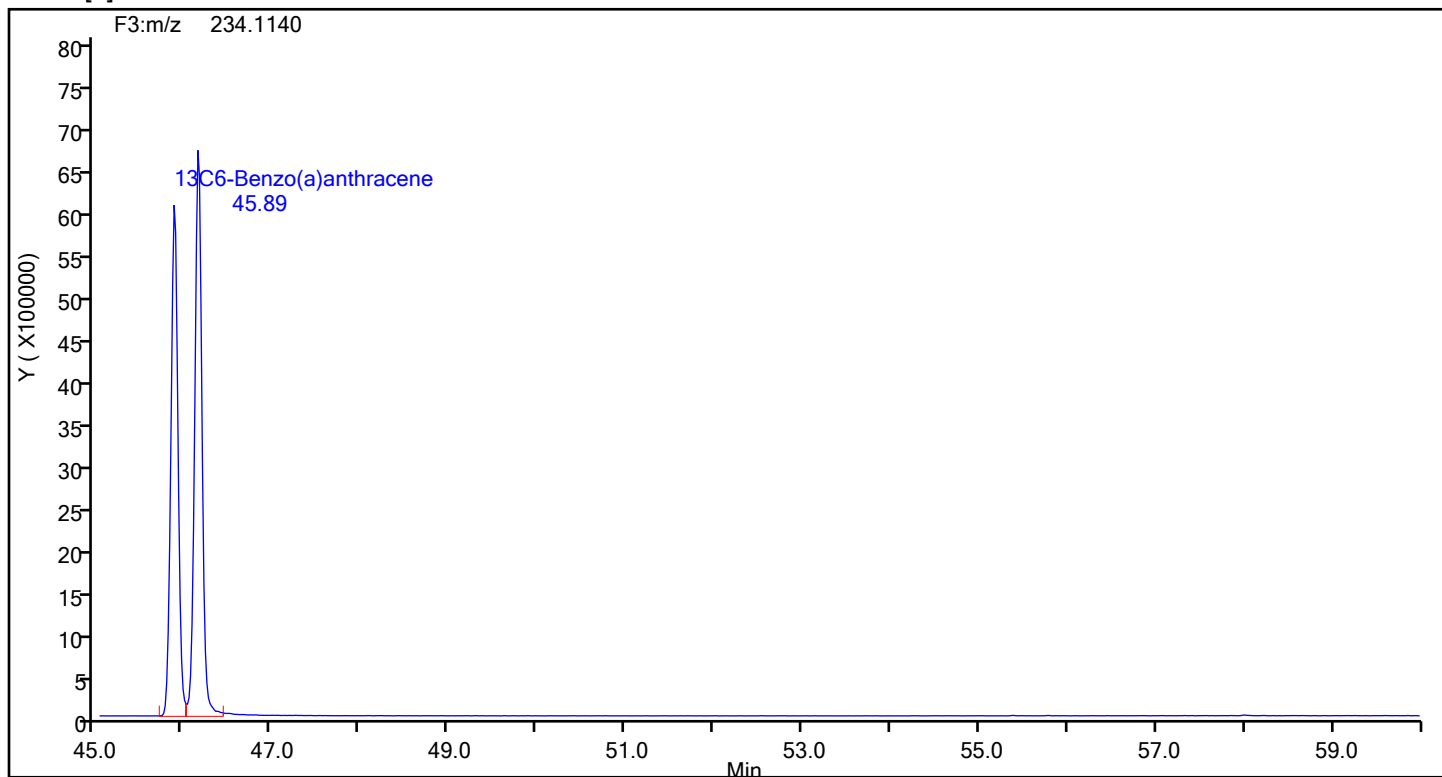
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



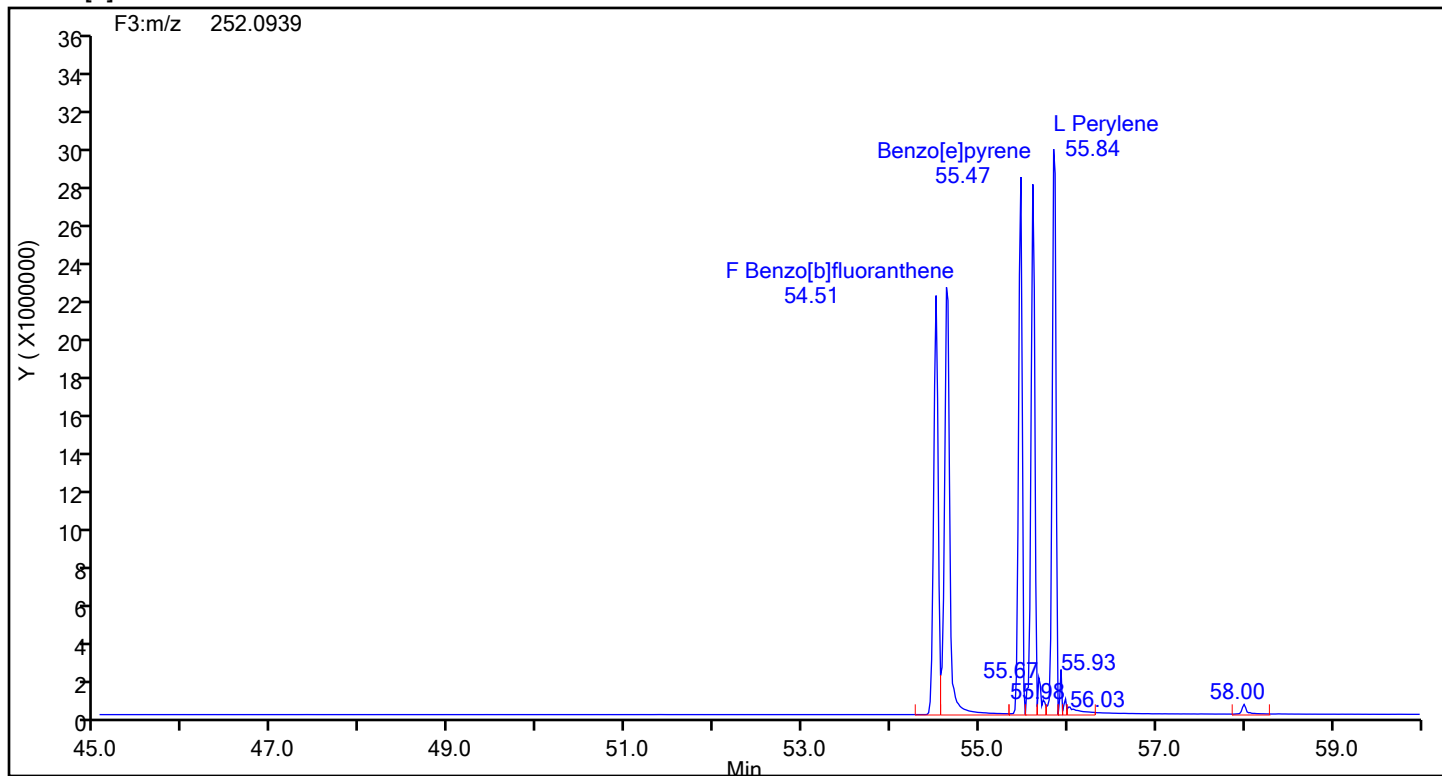
## Benzo[a]anthracene Standards



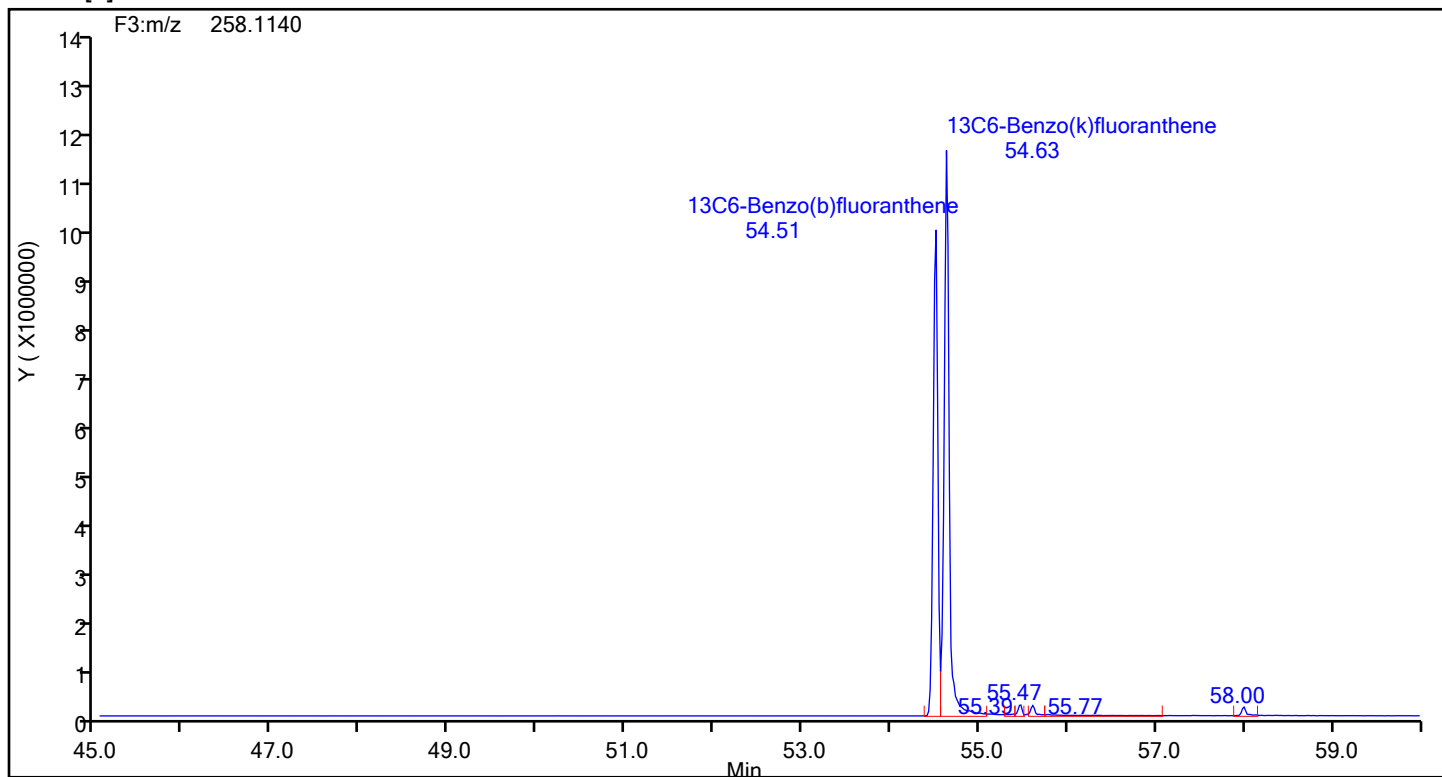
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



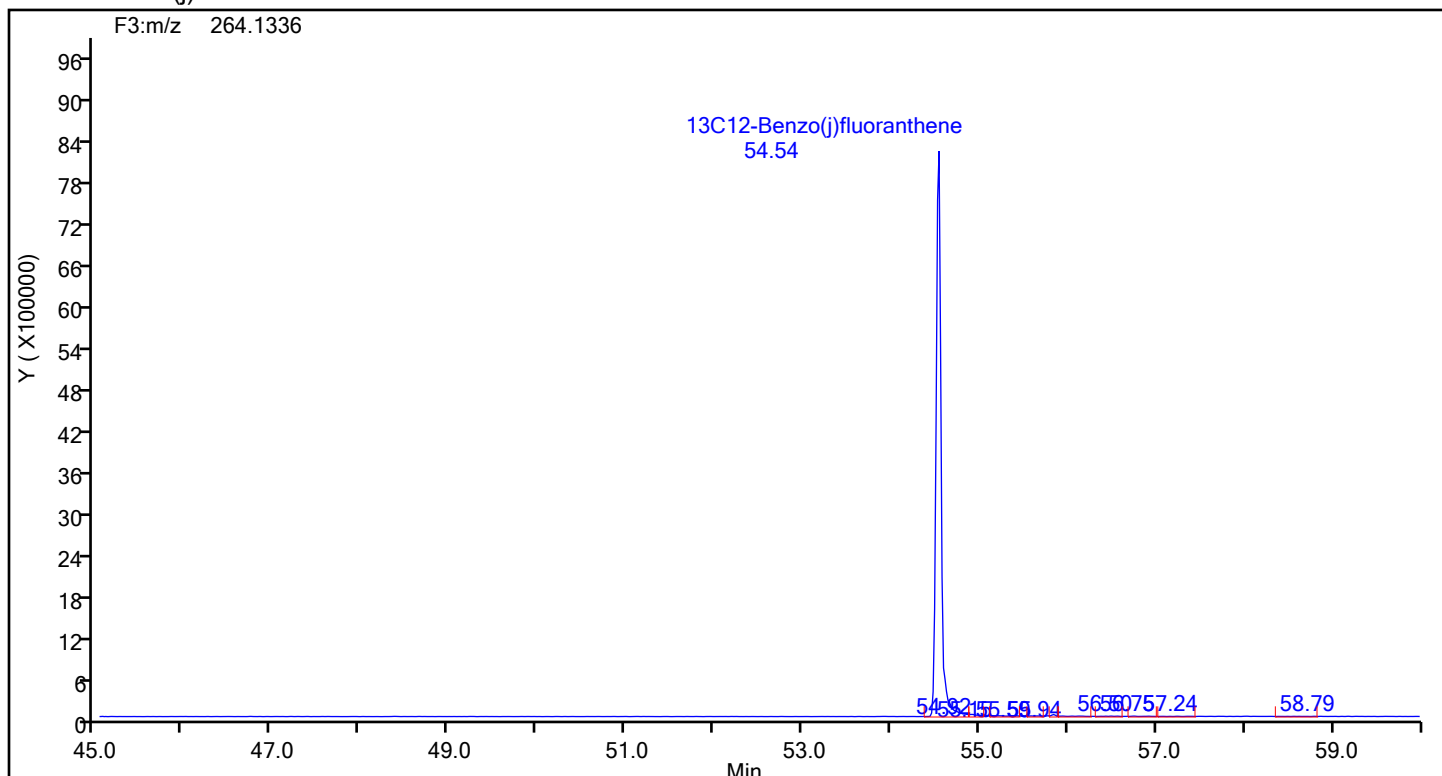
## Benzo[b]fluoranthene Standards



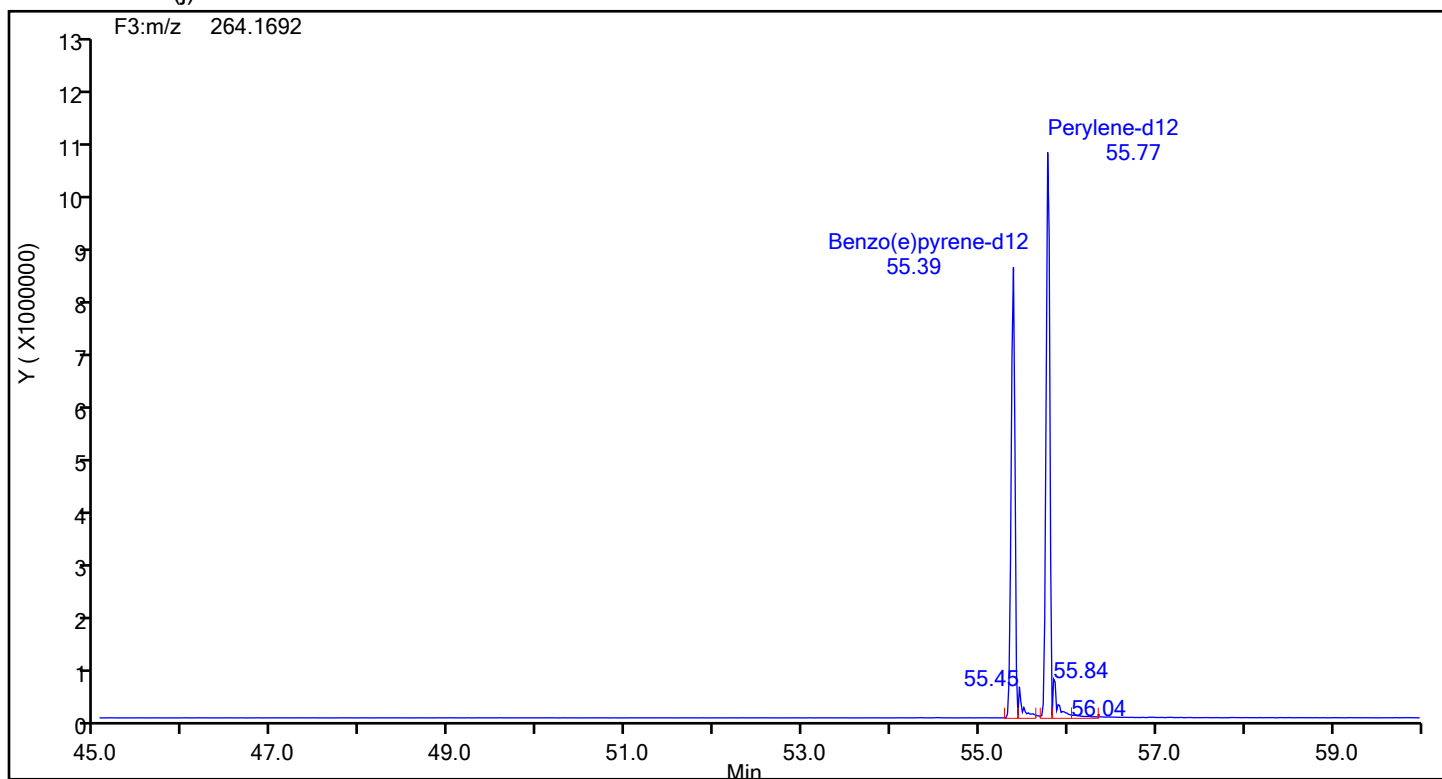
Eurofins Knoxville

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Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	89185	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
13C12-Benzo(i)fluoranthene			

13C12-Benzo(j)fluoranthene



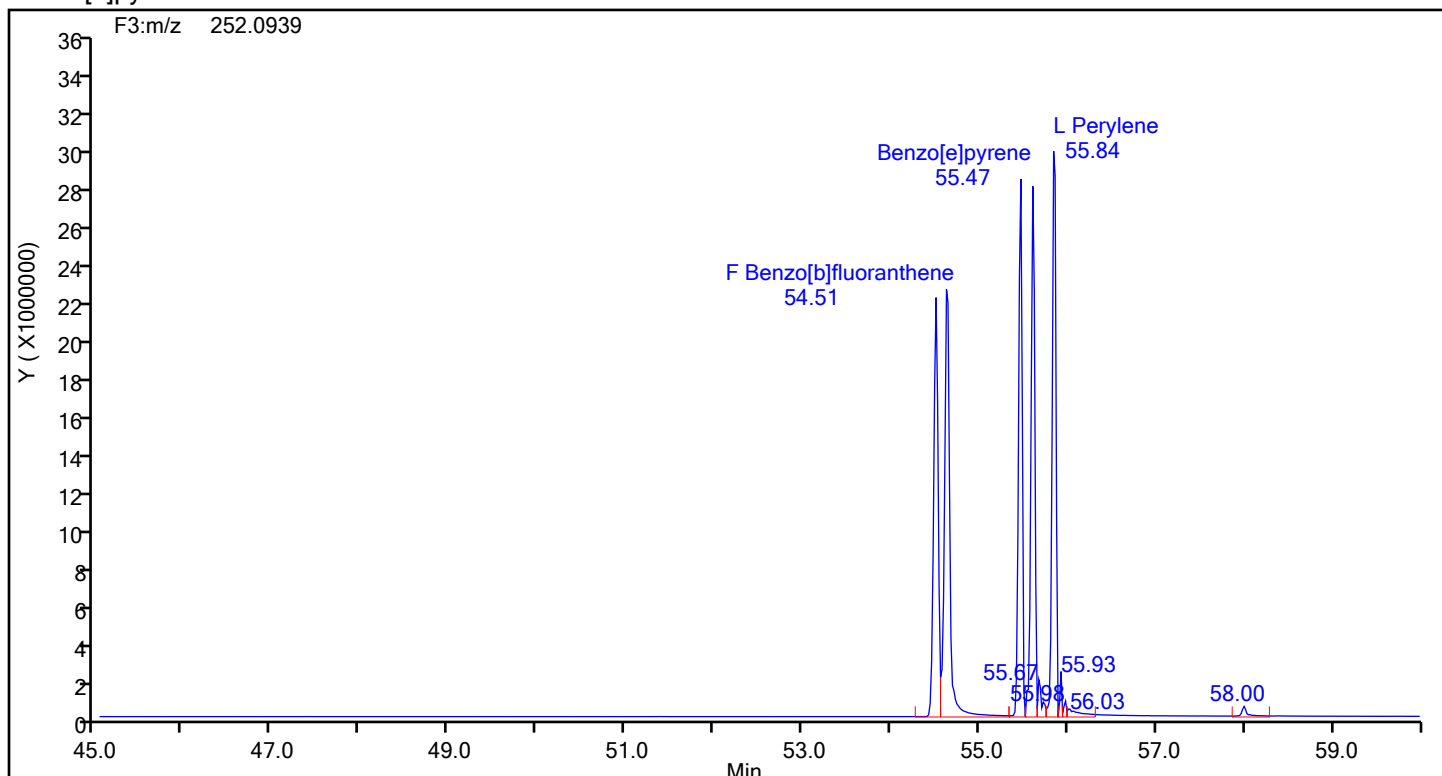
### 13C12-Benzo(j)fluoranthene Standards



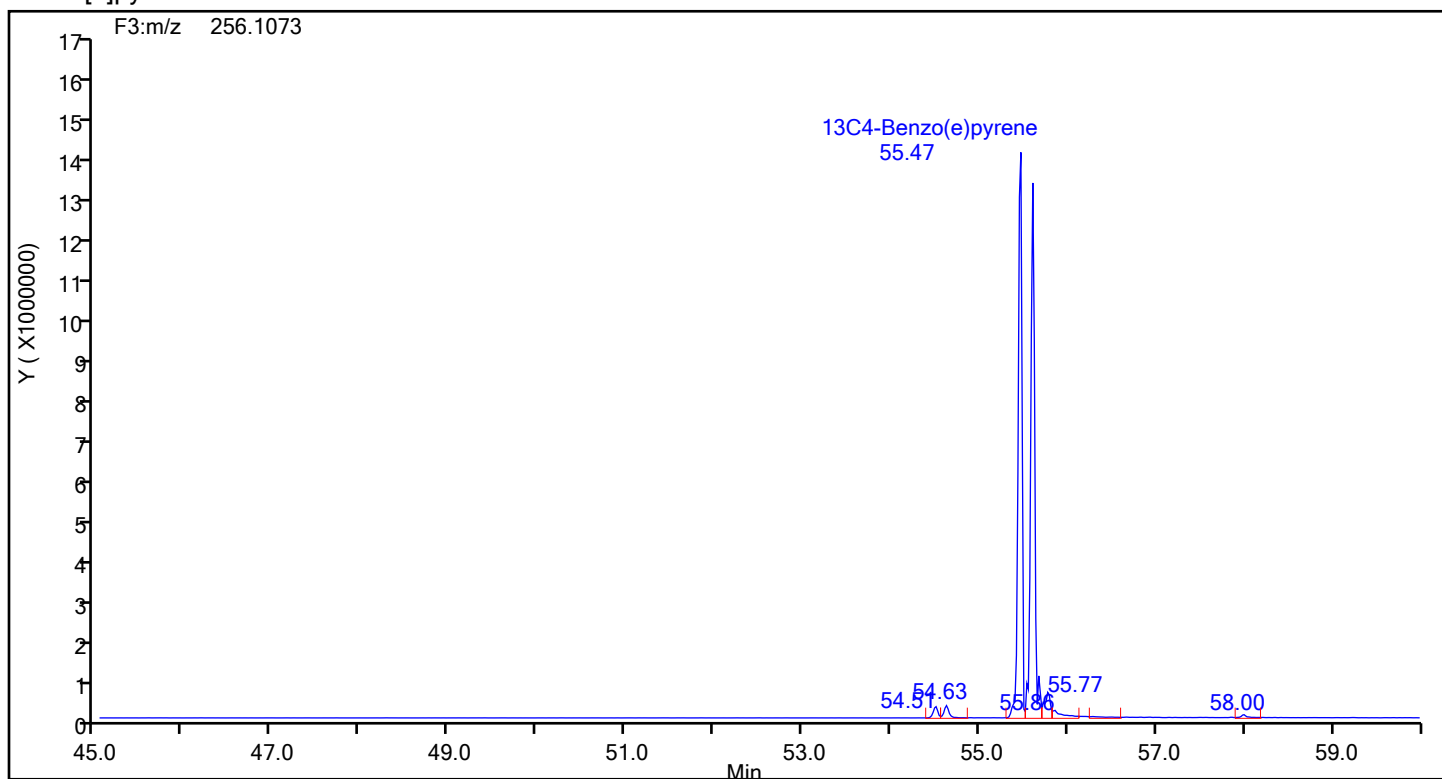
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Method: EPA\_23\_\_PAH Limit Group: HR - HRPAL ICAL  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



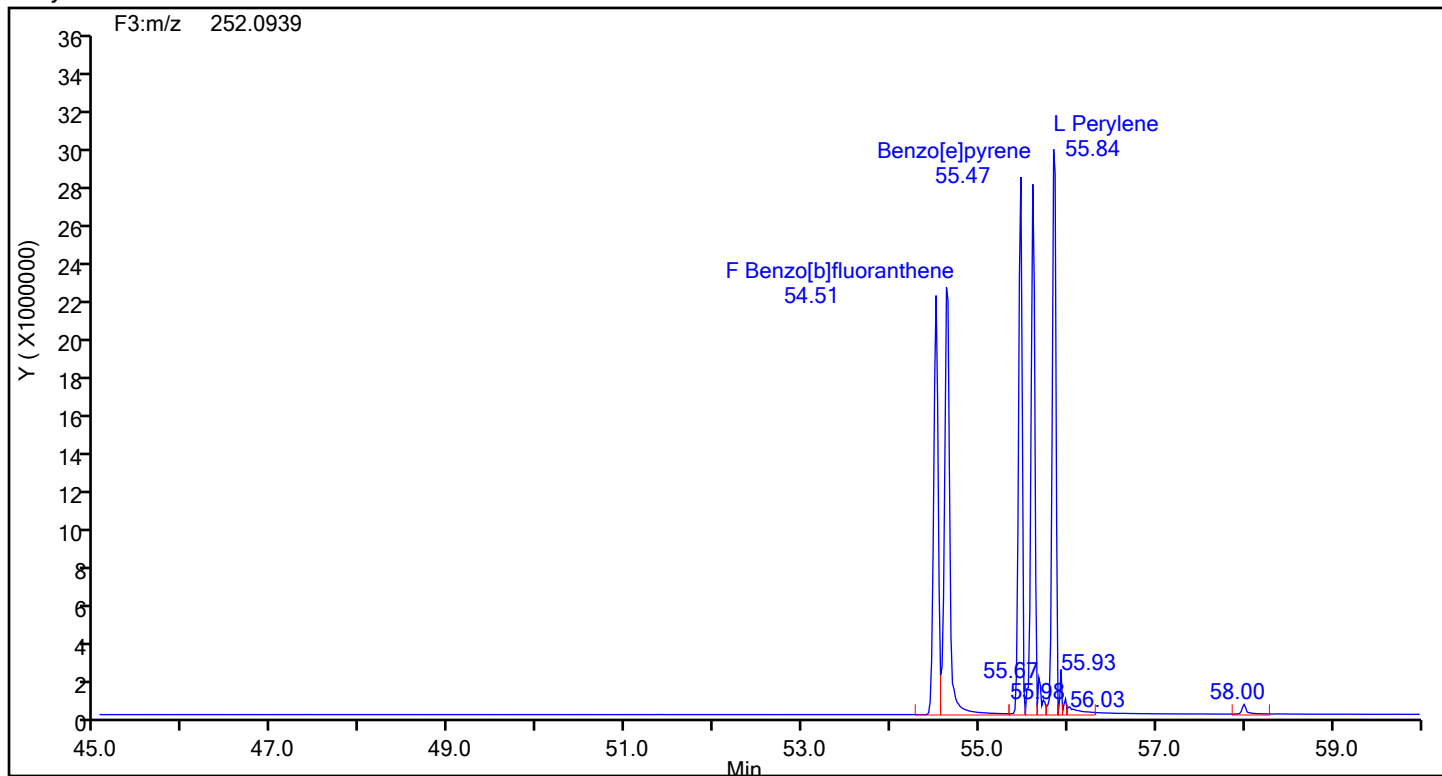
## Benzo[e]pyrene Standards



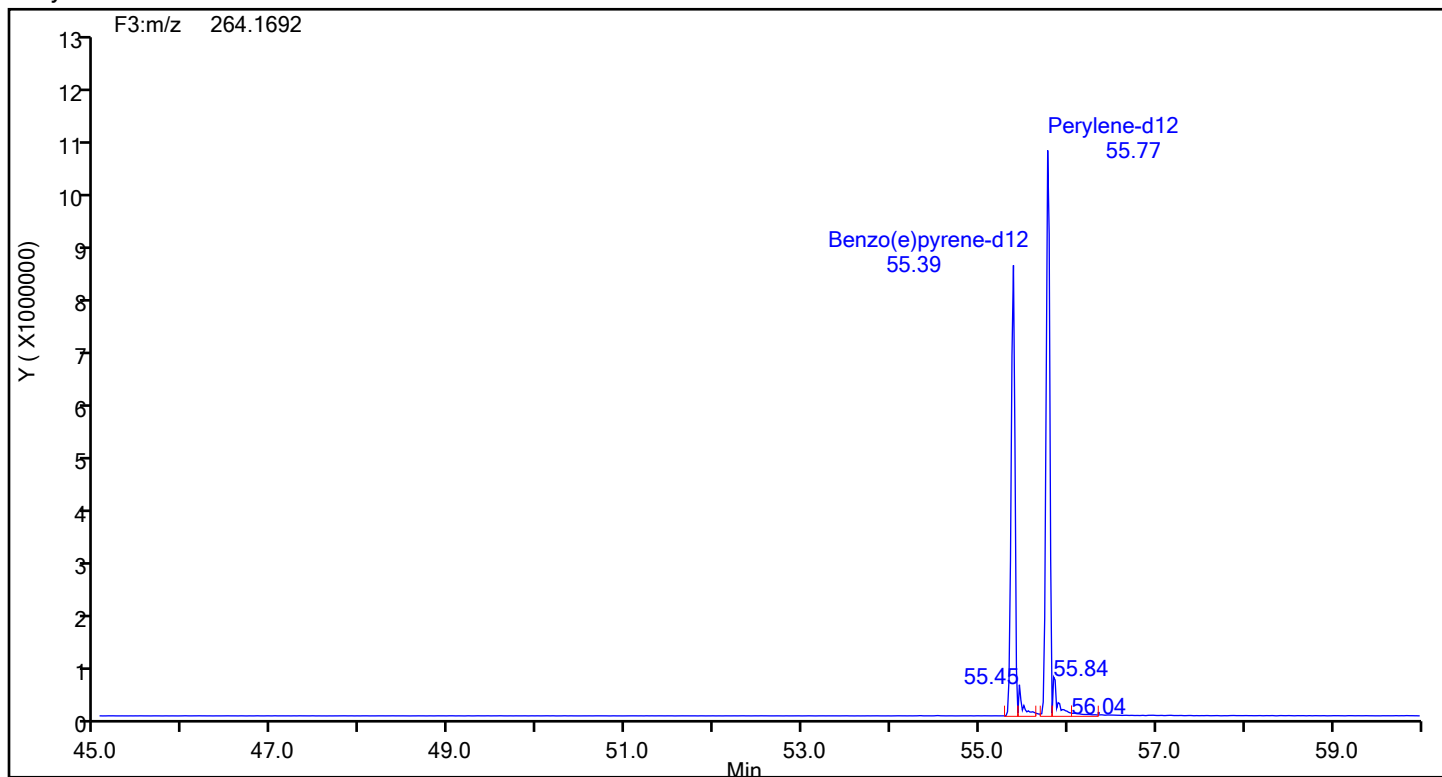
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Perylene



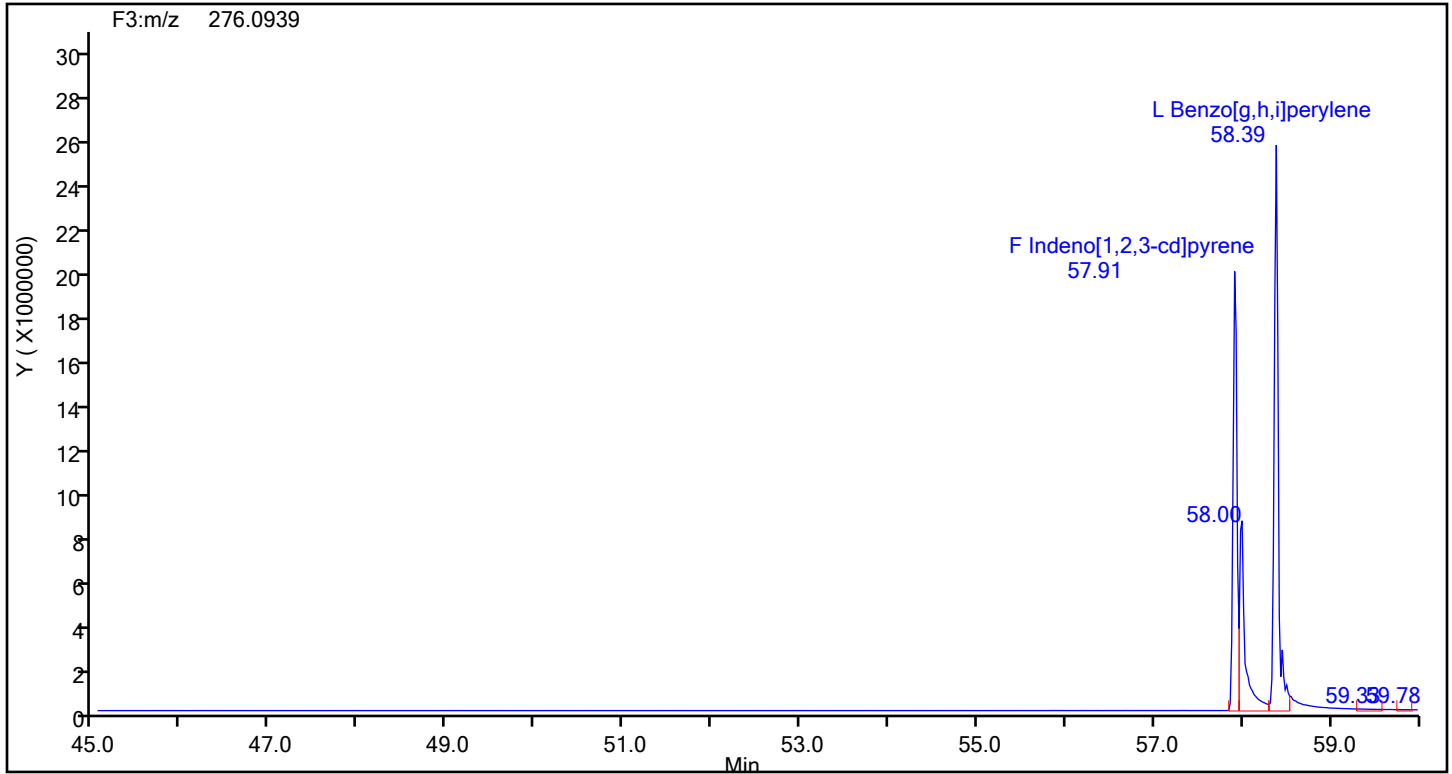
## Perylene Standards



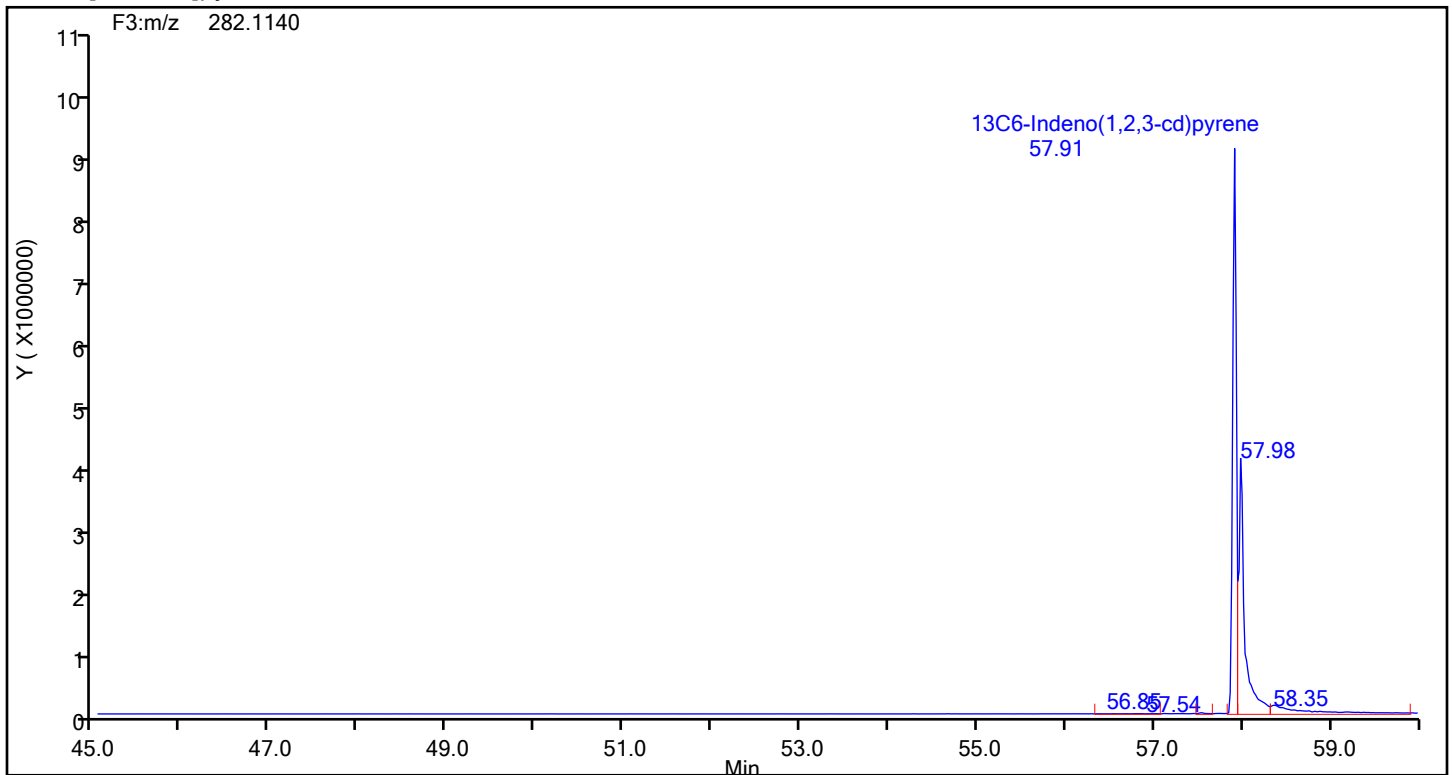
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene

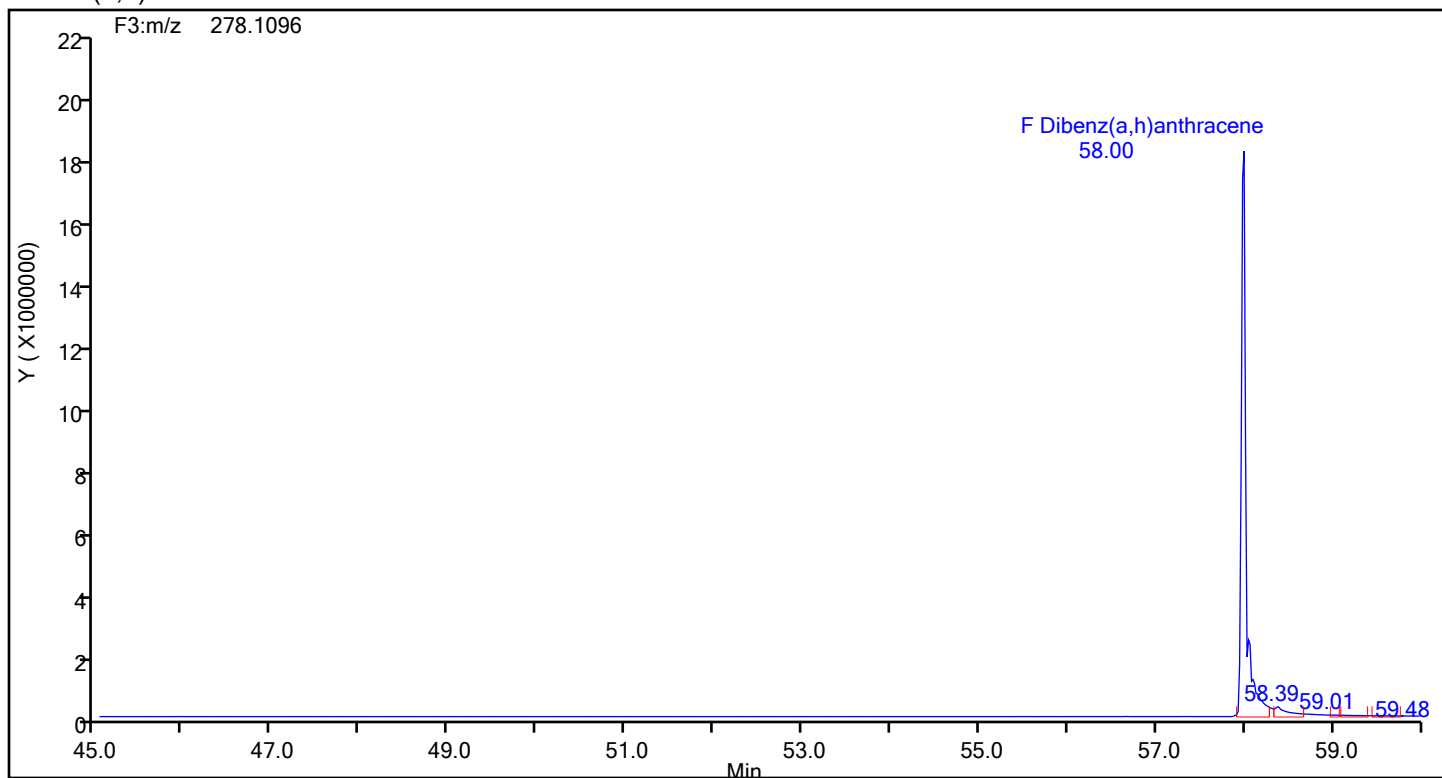


## Indeno[1,2,3-cd]pyrene Standards

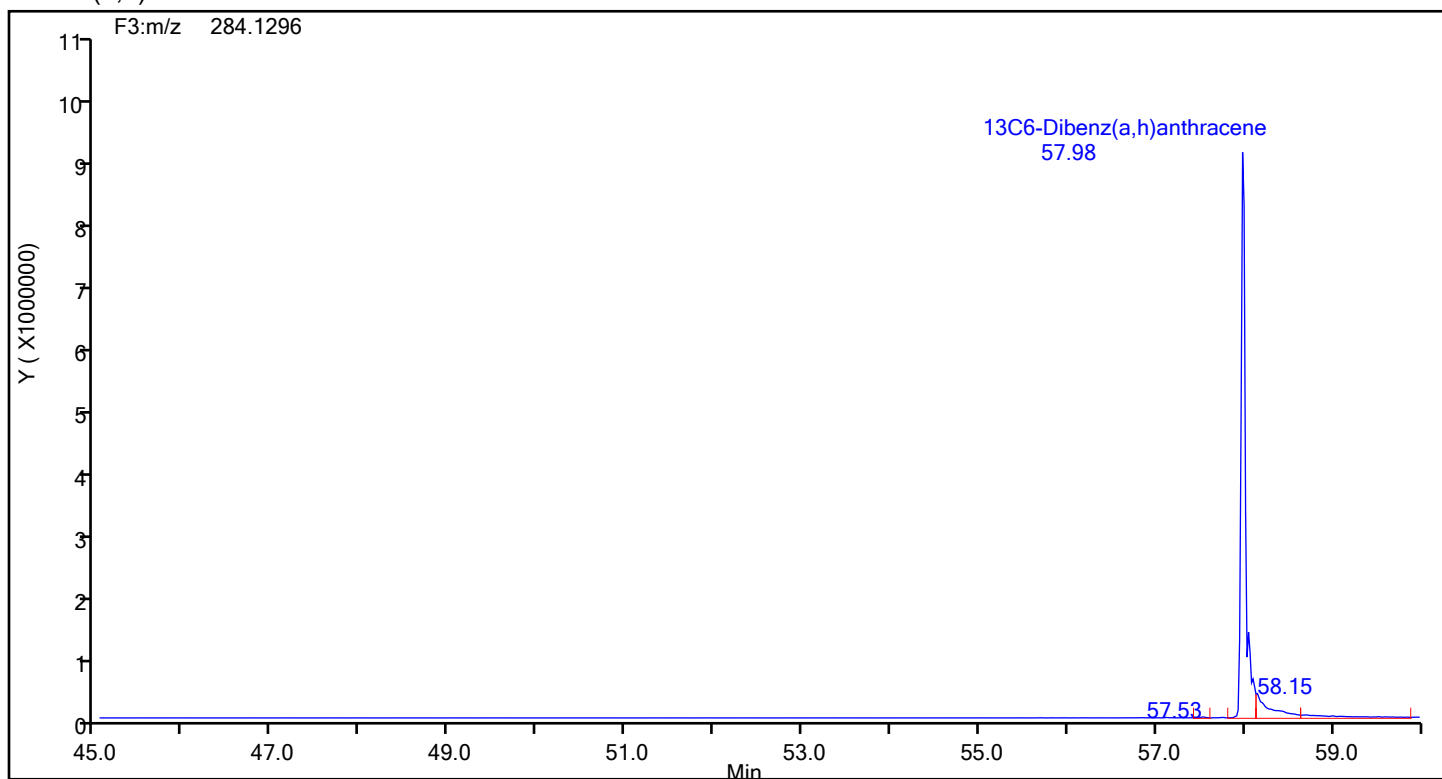


## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89185 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Dibenz(a,h)anthracene



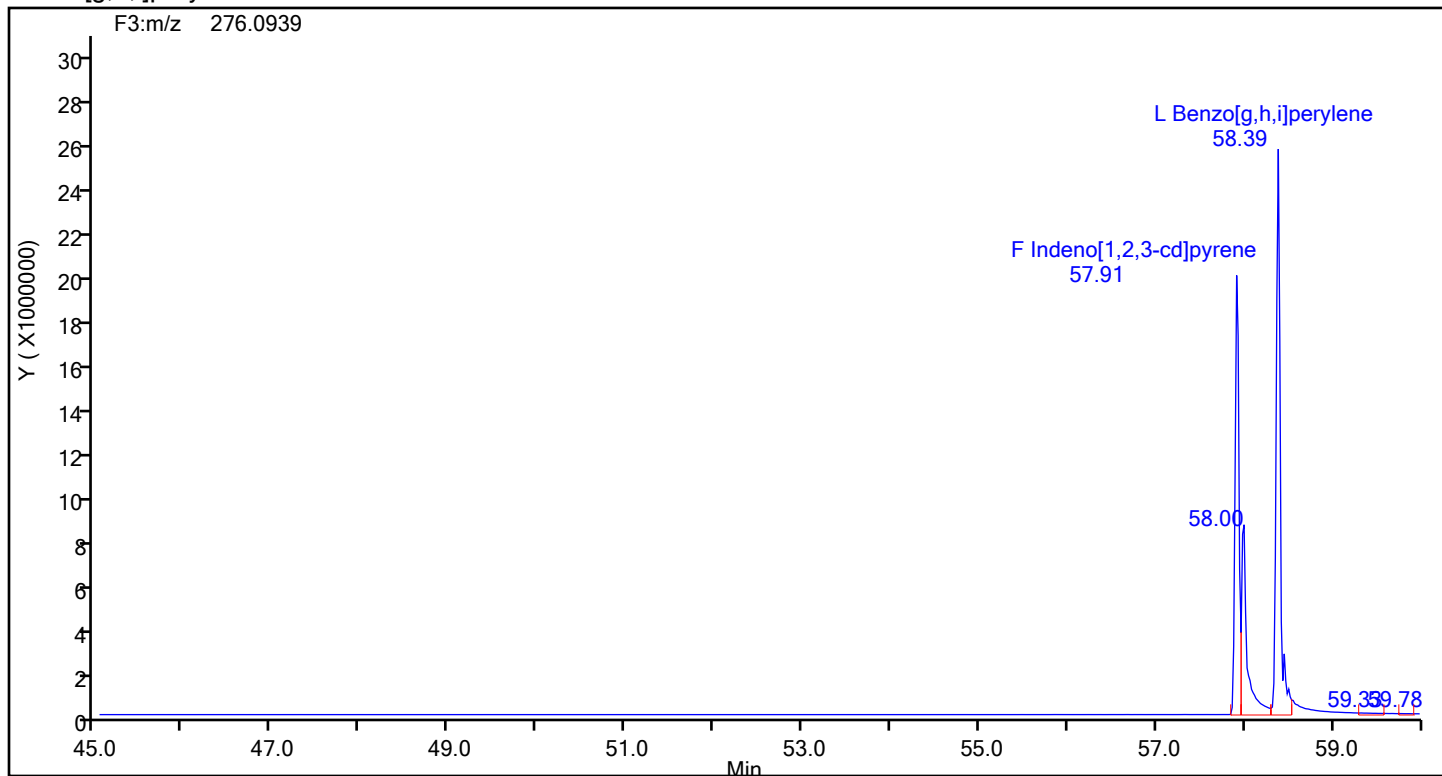
## Dibenz(a,h)anthracene Standards



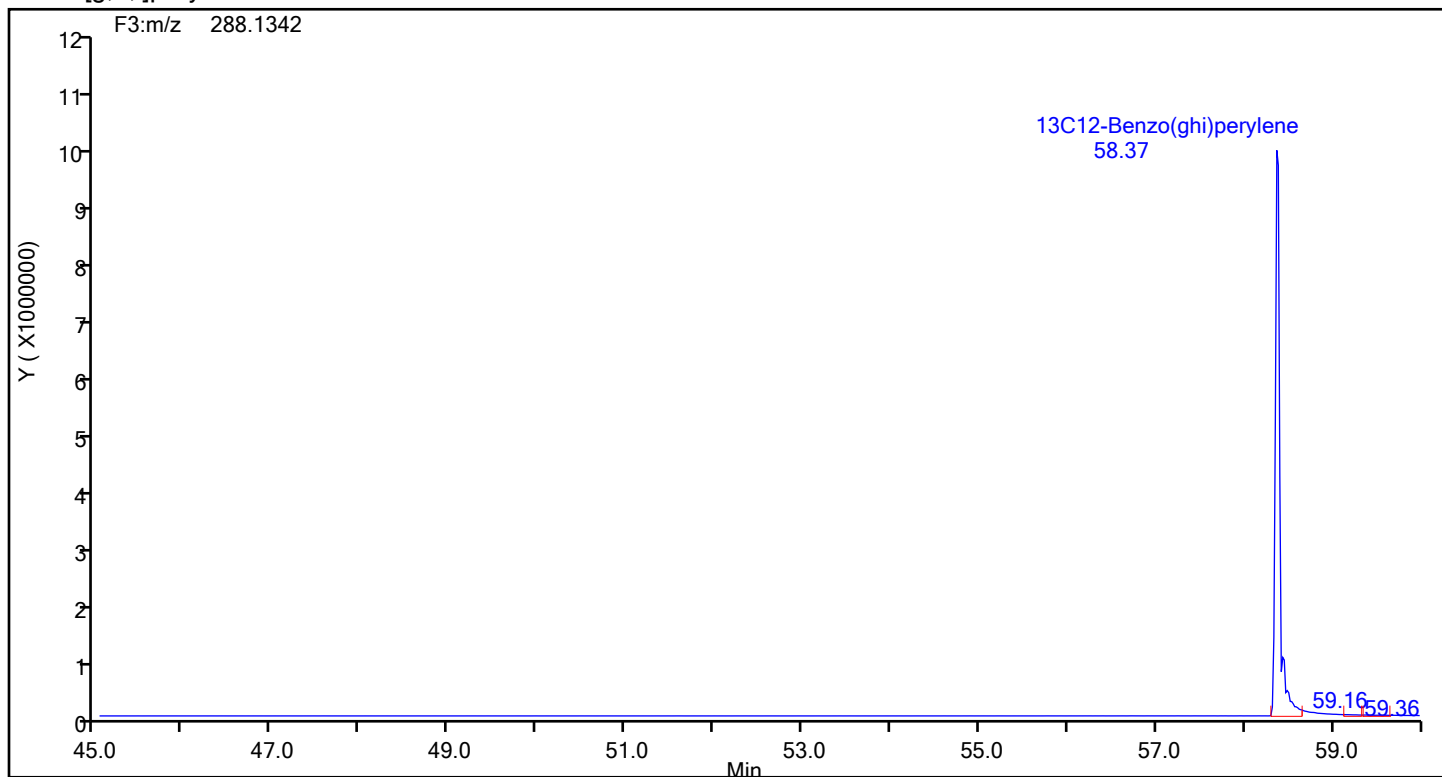
Eurofins Knoxville

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Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	89185	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Benzo[g,h,i]perylene			

Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards





FORM VII  
HI-RES PAHS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCV 140-89271/1 Calibration Date: 07/28/2024 13:04

Instrument ID: D3PAH Calib Start Date: 06/19/2024 16:34

GC Column: Rxi-5SilMS 25 ID: 0.25 (mm) Calib End Date: 06/20/2024 01:09

Lab File ID: d3240728c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	AveID	1.289	1.131		176	200	-12.3	25.0
2-Methylnaphthalene	AveID	1.279	1.170		183	200	-8.5	25.0
Acenaphthylene	AveID	2.366	2.338		198	200	-1.2	25.0
Acenaphthene	AveID	1.270	1.250		197	200	-1.5	25.0
Fluorene	AveID	1.253	1.274		203	200	1.6	25.0
Phenanthrene	AveID	1.104	1.114		202	200	0.9	25.0
Anthracene	AveID	1.359	1.391		205	200	2.4	25.0
Fluoranthene	AveID	1.151	1.126		196	200	-2.2	25.0
Pyrene	AveID	1.065	1.037		195	200	-2.6	25.0
Benzo[a]anthracene	AveID	0.9739	0.9926		204	200	1.9	25.0
Chrysene	AveID	0.9815	0.9806		200	200	-0.0	25.0
Benzo[b]fluoranthene	AveID	1.125	1.077		192	200	-4.3	25.0
Benzo[k]fluoranthene	AveID	1.127	1.053		187	200	-6.6	25.0
Benzo[e]pyrene	AveID	1.001	0.9486		190	200	-5.3	25.0
Benzo[a]pyrene	AveID	1.113	1.103		198	200	-0.9	25.0
Perylene	AveID	1.431	1.422		199	200	-0.6	25.0
Indeno[1,2,3-cd]pyrene	AveID	1.125	1.083		193	200	-3.8	25.0
Dibenz(a,h)anthracene	AveID	1.131	1.068		189	200	-5.6	25.0
Benzo[g,h,i]perylene	AveID	1.284	1.017		158	200	-20.8	25.0
13C6-Naphthalene	Ave	3.375	2.581		76.5	100	-23.5	30.0
13C6-2-Methylnaphthalene	Ave	1.603	1.451		90.5	100	-9.5	30.0
13C6-Acenaphthylene	Ave	1.652	1.638		99.2	100	-0.8	30.0
13C6-Acenaphthene	Ave	0.9792	0.9777		99.9	100	-0.2	30.0
13C6-Fluorene	Ave	0.8898	0.9374		105	100	5.3	30.0
13C6-Phenanthrene	Ave	0.5724	0.7100		124	100	24.0	30.0
13C6-Anthracene	Ave	0.4523	0.5664		125	100	25.2	30.0
13C6-Fluoranthrene	Ave	1.199	1.209		101	100	0.8	30.0
13C3-Pyrene	Ave	1.351	1.439		107	100	6.5	30.0
13C6-Benzo(a)anthracene	Ave	1.519	1.153		75.9	100	-24.1	30.0
13C6-Chrysene	Ave	1.629	1.527		93.8	100	-6.2	30.0
13C6-Benzo(b)fluoranthene	Ave	1.462	1.296		88.6	100	-11.4	30.0
13C6-Benzo(k)fluoranthene	Ave	1.751	1.834		105	100	4.8	30.0
13C4-Benzo(e)pyrene	Ave	1.637	1.729		106	100	5.6	30.0
13C4-Benzo(a)pyrene	Ave	1.551	1.634		105	100	5.3	30.0
Perylene-d12	Ave	1.192	1.283		108	100	7.7	30.0
13C6-Indeno(1,2,3-cd)pyrene	Ave	1.022	0.9869		96.6	100	-3.4	30.0
13C6-Dibenz(a,h)anthracene	Ave	1.055	1.246		118	100	18.1	30.0
13C12-Benzo(ghi)perylene	Ave	1.275	1.482		116	100	16.3	30.0
Anthracene-d10	Ave	0.4257	0.5175		122	100	21.6	25.0
13C6-Benzo(c)fluorene	Ave	0.5136	0.4951		96.4	100	-3.6	25.0
13C12-Benzo(j)fluoranthene	Ave	1.356	1.300		95.9	100	-4.1	25.0

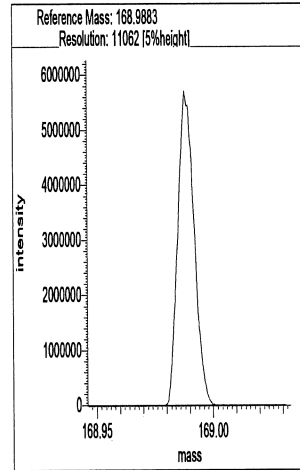
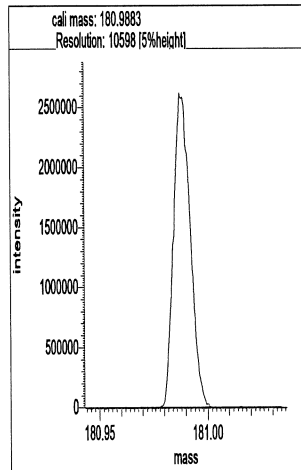
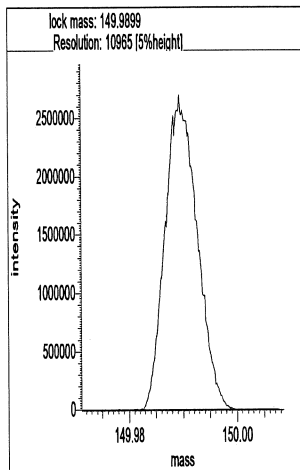
# Resolution Check Report ( DFS SN: 3439 )

Date: 28 Jul 2024 11:16  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

## Segment 1

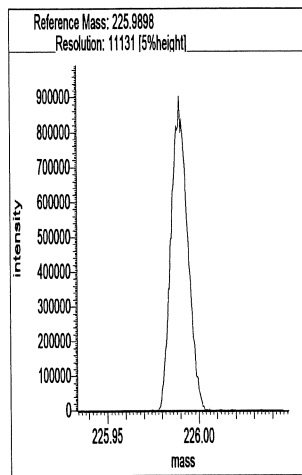
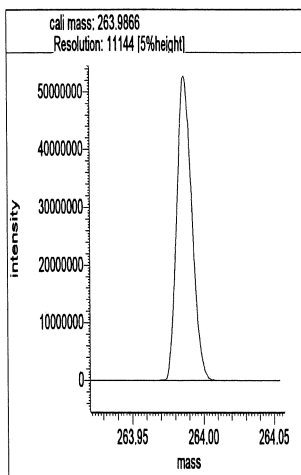
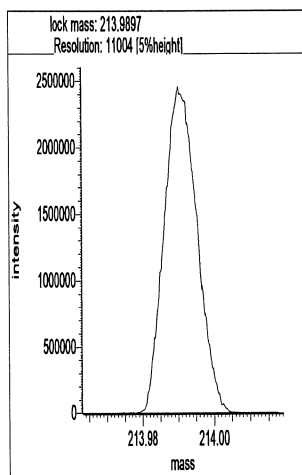
-d3240728r1

Lock mass 149.9899 [m/z] Resolution: 10965 [5%height]  
Cali. mass 180.9883 [m/z] Resolution: 10598 [5%height]  
Ref. mass 168.9883 [m/z] Resolution: 11062 [5%height]



## Segment 2

Lock mass 213.9897 [m/z] Resolution: 11004 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 11144 [5%height]  
Ref. mass 225.9898 [m/z] Resolution: 11131 [5%height]

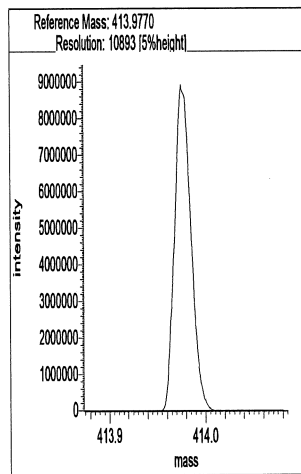
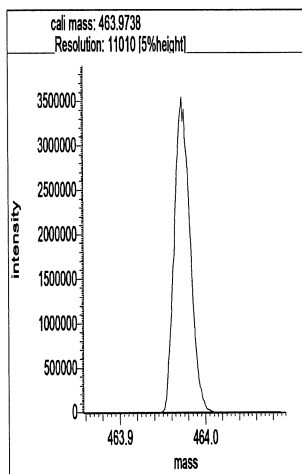
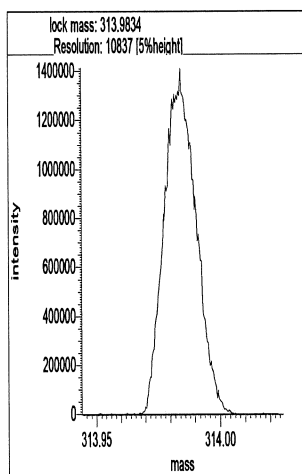


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 10837 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 11010 [5%height]

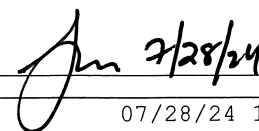
Ref. mass 413.9770 [m/z] Resolution: 10893 [5%height]



## Reports

11:50:21: Peak matching procedure started  
11:50:21:  
11:50:22: Reference mass: 263.98656  
11:50:22: Sample mass: 414.0  
11:50:23:  
11:50:23: Finding reference mass  
11:50:24: Finding sample mass  
11:50:25:  
11:50:30: [1] 413.9826 amu, mean: 413.9826 SD: 0.33 mmu or: 0.79 ppm  
11:50:33: [2] 413.9830 amu, mean: 413.9828 SD: 0.34 mmu or: 0.83 ppm  
11:50:37: [3] 413.9832 amu, mean: 413.9829 SD: 0.29 mmu or: 0.69 ppm  
11:50:40: [4] 413.9828 amu, mean: 413.9829 SD: 0.25 mmu or: 0.61 ppm  
11:50:43: [5] 413.9828 amu, mean: 413.9829 SD: 0.23 mmu or: 0.55 ppm  
11:50:46: [6] 413.9828 amu, mean: 413.9829 SD: 0.25 mmu or: 0.60 ppm  
11:50:49: [7] 413.9825 amu, mean: 413.9828 SD: 0.27 mmu or: 0.66 ppm  
11:50:52: [8] 413.9824 amu, mean: 413.9828 SD: 0.37 mmu or: 0.90 ppm  
11:50:56: [9] 413.9820 amu, mean: 413.9827 SD: 0.54 mmu or: 1.30 ppm  
11:50:59: [10] 413.9814 amu, mean: 413.9825 SD: 0.63 mmu or: 1.52 ppm  
11:51:02: [11] 413.9813 amu, mean: 413.9824  
11:51:03:  
11:51:03: Stop requested. Please wait for procedure to finish.  
11:51:03:  
11:51:05:  
11:51:05: Peakmatching stopped

Signature

A handwritten signature in black ink, appearing to be 'Jim', followed by the date '7/28/24'.

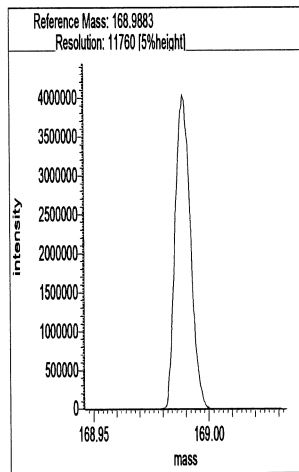
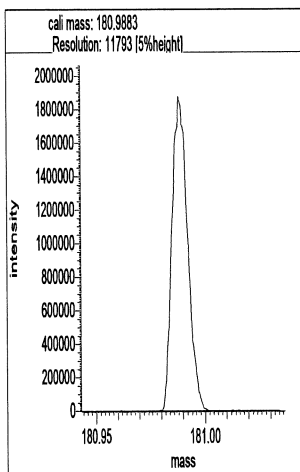
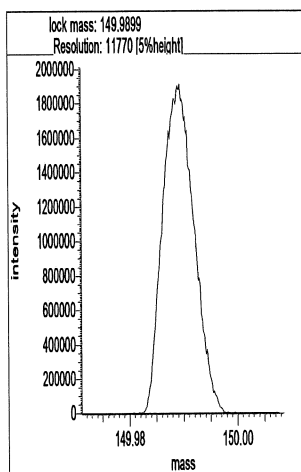
# Resolution Check Report ( DFS SN: 3439 )

Date: 28 Jul 2024 22:24  
MID Experiment: ResCheck\_HRPAH  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43\_HRPAH.lua  
Status: RESOLUTION PASSED

## Segment 1

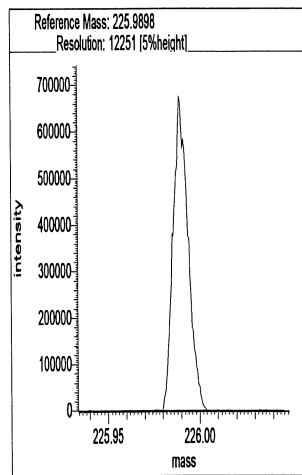
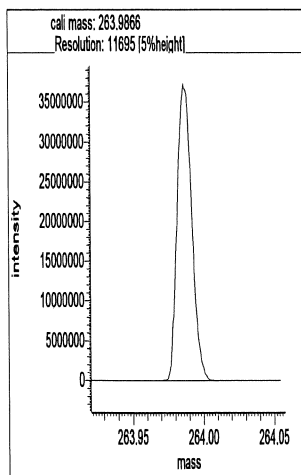
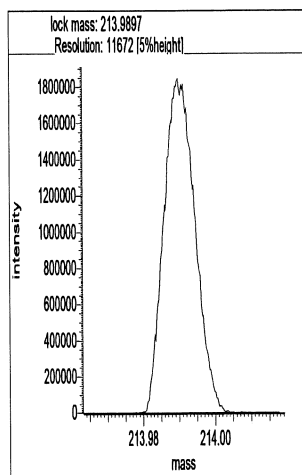
-d3240729r1

Lock mass 149.9899 [m/z] Resolution: 11770 [5%height]  
Cali. mass 180.9883 [m/z] Resolution: 11793 [5%height]  
Ref. mass 168.9883 [m/z] Resolution: 11760 [5%height]



## Segment 2

Lock mass 213.9897 [m/z] Resolution: 11672 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 11695 [5%height]  
Ref. mass 225.9898 [m/z] Resolution: 12251 [5%height]

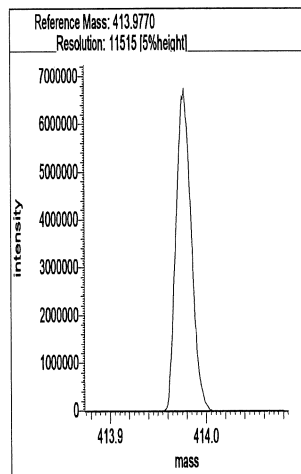
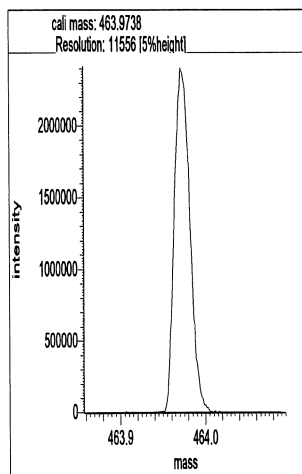
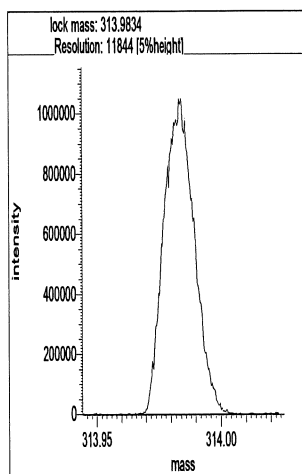


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11844 [5%height]

Cali. mass 463.9738 [m/z] Resolution: 11556 [5%height]

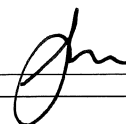
Ref. mass 413.9770 [m/z] Resolution: 11515 [5%height]



## Reports

09:45:23: Peak matching procedure started  
09:45:23:  
09:45:24: Reference mass: 263.98656  
09:45:24: Sample mass: 414.0  
09:45:25:  
09:45:25: Finding reference mass  
09:45:26: Finding sample mass  
09:45:27:  
09:45:32: [1] 413.9846 amu, mean: 413.9846 SD: 0.24 mmu or: 0.58 ppm  
09:45:36: [2] 413.9842 amu, mean: 413.9844 SD: 0.33 mmu or: 0.80 ppm  
09:45:38: [3] 413.9839 amu, mean: 413.9842 SD: 0.36 mmu or: 0.87 ppm  
09:45:42: [4] 413.9838 amu, mean: 413.9841 SD: 0.36 mmu or: 0.88 ppm  
09:45:45: [5] 413.9837 amu, mean: 413.9840 SD: 0.40 mmu or: 0.96 ppm  
09:45:48: [6] 413.9835 amu, mean: 413.9839 SD: 0.41 mmu or: 1.00 ppm  
09:45:51: [7] 413.9844 amu, mean: 413.9840 SD: 0.41 mmu or: 0.98 ppm  
09:45:54: [8] 413.9844 amu, mean: 413.9841 SD: 0.56 mmu or: 1.35 ppm  
09:45:57: [9] 413.9853 amu, mean: 413.9842 SD: 0.56 mmu or: 1.35 ppm  
09:46:01: [10] 413.9848 amu, mean: 413.9842 SD: 0.57 mmu or: 1.38 ppm  
09:46:04: [11] 413.9850 amu, mean: 413.9843  
09:46:04:  
09:46:04: Stop requested. Please wait for procedure to finish.  
09:46:04:  
09:46:07:  
09:46:07: Peakmatching stopped

Signature

 2/29/24

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Lims ID: CCV  
Client ID:  
Sample Type: CCV  
Inject. Date: 28-Jul-2024 13:04:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 28-Jul-2024 15:12:36 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 28-Jul-2024 15:07:07

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:28	87301032		3.3746	76.5	76.5	0.003952	0.003952	76.48	
Naphthalene	11:28	197514596		1.2893	175.5	175.5	0.0196	0.0196	87.74	
D 13C6-2-Methylnaphthalene	13:49	49083459		1.6031	90.5	90.5	0.000862	0.000862	90.52	
2-Methylnaphthalene	13:49	114862245		1.2786	183.0	183.0	0.005188	0.005188	91.51	
D 13C6-Acenaphthylene	16:40	55410926		1.6520	99.2	99.2	0.000784	0.000784	99.16	
Acenaphthylene	16:41	154618396		2.3661	197.6	197.6	0.007337	0.007337	98.80	
* Acenaphthene-d10	17:15	33826766		3.5E+04	100.0	100.0				
D 13C6-Acenaphthene	17:22	33071058		0.9792	99.8	99.8	0.001340	0.001340	99.85	
Acenaphthene	17:23	82689538		1.2697	196.9	196.9	0.007355	0.007355	98.46	
D 13C6-Fluorene	19:39	31710360		0.8898	105.3	105.3	0.000291	0.000291	105	
Fluorene	19:39	80779762		1.2532	203.3	203.3	0.007702	0.007702	102	
D 13C6-Phenanthrene	25:00	46257764		0.5724	124.0	124.0	0.002200	0.002200	124	
Phenanthrene	25:00	103101501		1.1044	201.8	201.8	0.0114	0.0114	101	
\$ Anthracin-d10	25:13	33711359		0.4257	121.6	121.6	0.001084	0.001084	122	
D 13C6-Anthracene	25:20	36897177		0.4523	125.2	125.2	0.002784	0.002784	125	
Anthracene	25:20	102652967		1.3586	204.8	204.8	0.0128	0.0128	102	
D 13C6-Fluoranthrene	33:44	78787205		1.1994	100.8	100.8	0.008727	0.008727	101	
Fluoranthene	33:44	177485268		1.1513	195.7	195.7	0.005790	0.005790	97.83	
* Pyrene-d10	35:16	65148599		7.9E+04	100.0	100.0				
D 13C3-Pyrene	35:24	93760103		1.3512	106.5	106.5	0.006225	0.006225	107	
Pyrene	35:25	194496647		1.0652	194.7	194.7	0.005325	0.005325	97.37	
\$ 13C6-Benzo(c)fluorene	39:07	32254337		0.5136	96.4	96.4	0.002239	0.002239	96.40	
D 13C6-Benzo(a)anthracene	45:55	54181663		1.5189	75.9	75.9	0.006972	0.006972	75.90	
Benzo[a]anthracene	45:56	107561057		0.9739	203.8	203.8	0.0176	0.0176	102	
D 13C6-Chrysene	46:12	71770723		1.6287	93.8	93.8	0.006502	0.006502	93.76	
Chrysene	46:13	140763388		0.9815	199.8	199.8	0.0142	0.0142	99.92	
D 13C6-Benzo(b)fluoranthene	54:33	60913502		1.4621	88.6	88.6	0.000346	0.000346	88.64	
Benzo[b]fluoranthene	54:33	131201740		1.1249	191.5	191.5	0.001965	0.001965	95.74	
\$ 13C12-Benzo(j)fluoranthene	54:35	61088476		1.3558	95.9	95.9	0.006291	0.006291	95.86	
D 13C6-Benzo(k)fluoranthene	54:40	86205466		1.7507	104.8	104.8	0.000289	0.000289	105	
Benzo[k]fluoranthene	54:40	181524569		1.1271	186.8	186.8	0.001472	0.001472	93.41	
* Benzo(e)pyrene-d12	55:25	46999701		5.7E+04	100.0	100.0				
D 13C4-Benzo(e)pyrene	55:29	81250736		1.6368	105.6	105.6	0.001047	0.001047	106	
Benzo[e]pyrene	55:30	154149234		1.0013	189.5	189.5	0.001291	0.001291	94.74	



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:39	76774078		1.5508	105.3	105.3	0.001105	0.001105	105	
Benzo[a]pyrene	55:39	169295287		1.1130	198.1	198.1	0.001360	0.001360	99.06	
D Perylene-d12	55:49	60316854		1.1917	107.7	107.7	0.006885	0.006885	108	
Perylene	55:53	171601104		1.4307	198.9	198.9	0.001260	0.001260	99.43	
D 13C6-Indeno(1,2,3-cd)pyrene	57:57	46385063		1.0218	96.6	96.6	0.004152	0.004152	96.58	
Indeno[1,2,3-cd]pyrene	57:57	100438578		1.1249	192.5	192.5	0.001943	0.001943	96.24	
D 13C6-Dibenz(a,h)anthracene	58:01	58581837		1.0553	118.1	118.1	0.002706	0.002706	118	
Dibenz(a,h)anthracene	58:01	125147072		1.1314	188.8	188.8	0.001244	0.001244	94.41	
D 13C12-Benzo(ghi)perylene	58:24	69676641		1.2749	116.3	116.3	0.000437	0.000437	116	
Benzo[g,h,i]perylene	58:25	141717713		1.2838	158.4	158.4	0.001291	0.001291	79.22	

## QC Flag Legend

Processing Flags

## Reagents:

61HRPAHCS5a\_00002

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d  
Lims ID: CCV  
Client ID:  
Sample Type: CCV  
Inject. Date: 28-Jul-2024 13:04:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Sublist: chrom-EPA\_23\_\_PAH\*sub1  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 28-Jul-2024 15:12:36 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1677

First Level Reviewer: F9EE

Date: 28-Jul-2024 15:07:07

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:28	11:28	0	0.664	87301032	30137611	618	1545	48766		
Naphthalene											
128.0626	11:28	11:28	0	1.000	197514596	68549922	3051	7627	22468		
13C6-2-Methylnaphthalene											
148.0984	13:49	13:49	0	0.801	49083459	23744238	64	160	371004		
2-Methylnaphthalene											
142.0783	13:49	13:49	0	1.000	114862245	54902489	630	1575	87147		
13C6-Acenaphthylene											
158.0828	16:40	16:40	0	0.966	55410926	18815407	60	150	313590		
Acenaphthylene											
152.0626	16:41	16:41	0	1.000	154618396	56142127	801	2002	70090		
Acenaphthene-d10											
164.1404	17:15	17:15	0		33826766	11583470	6	15	1930578		
13C6-Acenaphthene											
160.0984	17:22	17:22	0	1.007	33071058	11532782	61	152	189062		
Acenaphthene											
154.0783	17:23	17:23	0	1.001	82689538	28669538	431	1077	66519		
13C6-Fluorene											
172.0984	19:39	19:39	0	1.139	31710360	9117934	12	30	759828		E
Fluorene											
166.0783	19:39	19:39	0	1.000	80779762	24616571	352	880	69933		
13C6-Phenanthrene											
184.0984	25:00	25:00	0	0.709	46257764	10743790	60	150	179063		E
Phenanthrene											
178.0783	25:00	25:00	0	1.000	103101501	24269730	539	1347	45027		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:13	25:13	0	0.715	33711359	7319077	22	55	332685		
13C6-Anthracene											
184.0984	25:20	25:20	0	0.718	36897177	7749964	60	150	129166		E
Anthracene											
178.0783	25:20	25:20	0	1.000	102652967	21715255	539	1347	40288		
13C6-Fluoranthrene											
208.0984	33:44	33:44	0	0.956	78787205	15002227	499	1247	30065		E
Fluoranthene											
202.0783	33:44	33:44	0	1.000	177485268	33839299	400	1000	84598		
Pyrene-d10											
212.1404	35:16	35:16	0		65148599	11913196	33	82	361006		
13C3-Pyrene											
205.0883	35:24	35:24	0	1.004	93760103	17629516	401	1002	43964		E
Pyrene											
202.0783	35:25	35:25	0	1.000	194496647	37294531	400	1000	93236		
13C6-Benzo(c)fluorene											
222.1134	39:07	39:07	0	0.706	32254337	5377095	55	137	97765		
13C6-Benzo(a)anthracene											
234.1140	45:55	45:55	0	1.302	54181663	9462183	586	1465	16147		
Benzo[a]anthracene											
228.0939	45:56	45:56	0	1.000	107561057	18951243	649	1622	29201		
13C6-Chrysene											
234.1140	46:12	46:12	0	1.310	71770723	11634333	586	1465	19854		
Chrysene											
228.0939	46:13	46:13	0	1.000	140763388	23313739	649	1622	35923		
13C6-Benzo(b)fluoranthene											
258.1140	54:33	54:33	0	0.984	60913502	15380973	28	70	549320		
Benzo[b]fluoranthene											
252.0939	54:33	54:33	0	1.000	131201740	35988530	136	340	264622		
13C12-Benzo(j)fluoranthene											
264.1336	54:35	54:35	0	0.985	61088476	14217105	472	1180	30121		
13C6-Benzo(k)fluoranthene											
258.1140	54:40	54:40	0	0.986	86205466	20487405	28	70	731693		E
Benzo[k]fluoranthene											
252.0939	54:40	54:40	0	1.000	181524569	42582066	136	340	313103		
Benzo(e)pyrene-d12											
264.1692	55:25	55:25	0		46999701	13833871	454	1135	30471		
13C4-Benzo(e)pyrene											
256.1073	55:29	55:29	0	1.001	81250736	26305517	95	237	276900		E
Benzo[e]pyrene											
252.0939	55:30	55:30	0	1.000	154149234	50422834	136	340	370756		
13C4-Benzo(a)pyrene											
256.1073	55:39	55:39	0	1.004	76774078	22467309	95	237	236498		E

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene											
252.0939	55:39	55:39	0	1.000	169295287	49988146	136	340	367560		
Perylene-d12											
264.1692	55:49	55:49	0	1.007	60316854	18858639	454	1135	41539		E
Perylene											
252.0939	55:53	55:53	0	1.001	171601104	59115507	136	340	434673		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:57	57:57	0	1.046	46385063	14872768	235	587	63288		
Indeno[1,2,3-cd]pyrene											
276.0939	57:57	57:57	0	1.000	100438578	35326344	130	325	271741		
13C6-Dibenz(a,h)anthracene											
284.1296	58:01	58:01	0	1.047	58581837	15417251	158	395	97578		E
Dibenz(a,h)anthracene											
278.1096	58:01	58:01	0	1.000	125147072	32953308	87	217	378774		
13C12-Benzo(ghi)perylene											
288.1342	58:24	58:24	0	1.054	69676641	19614369	31	77	632722		E
Benzo[g,h,i]perylene											
276.0939	58:25	58:25	0	1.000	141717713	45207944	130	325	347753		

## QC Flag Legend

## Processing Flags

Reagents:

61HRPAHCS5a 00002

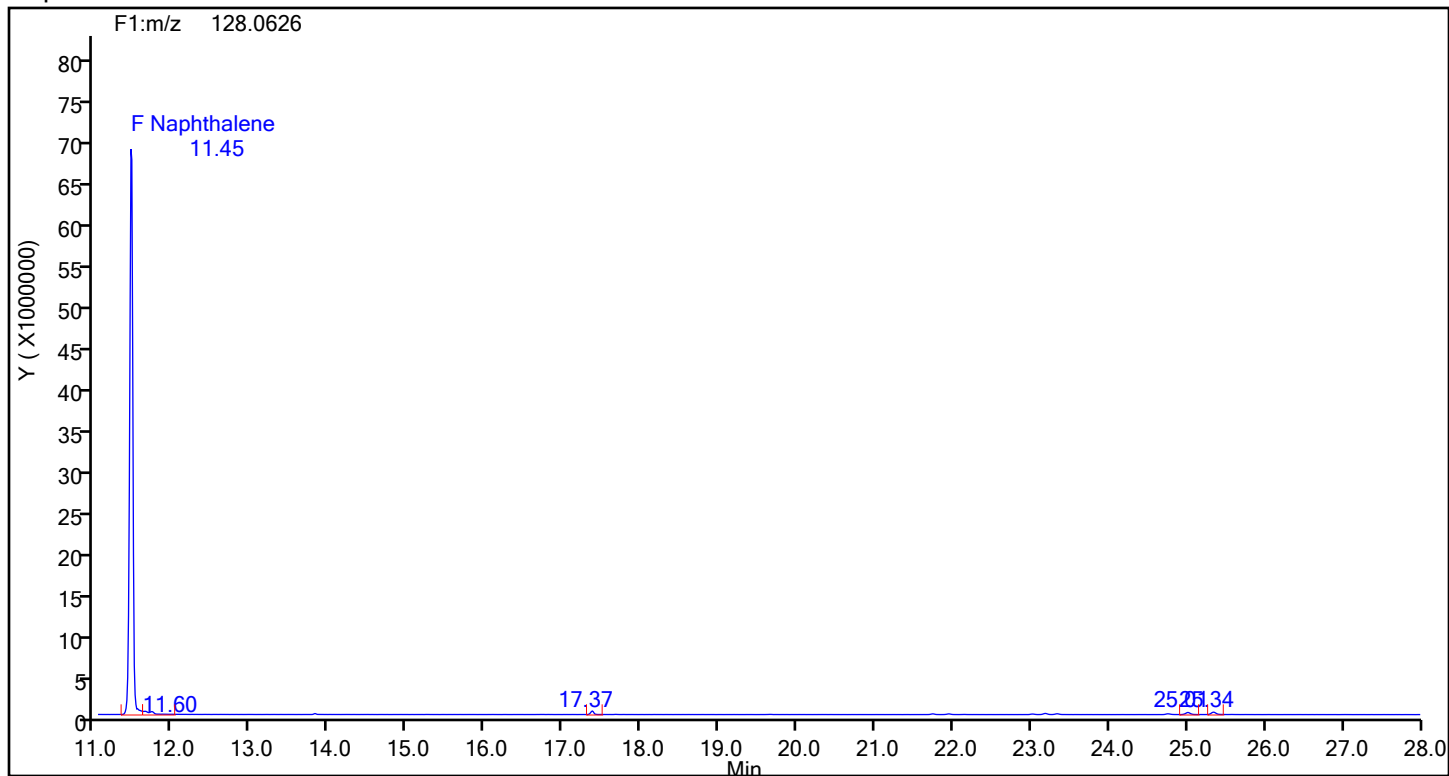
Amount Added: 20.00

Units: uL

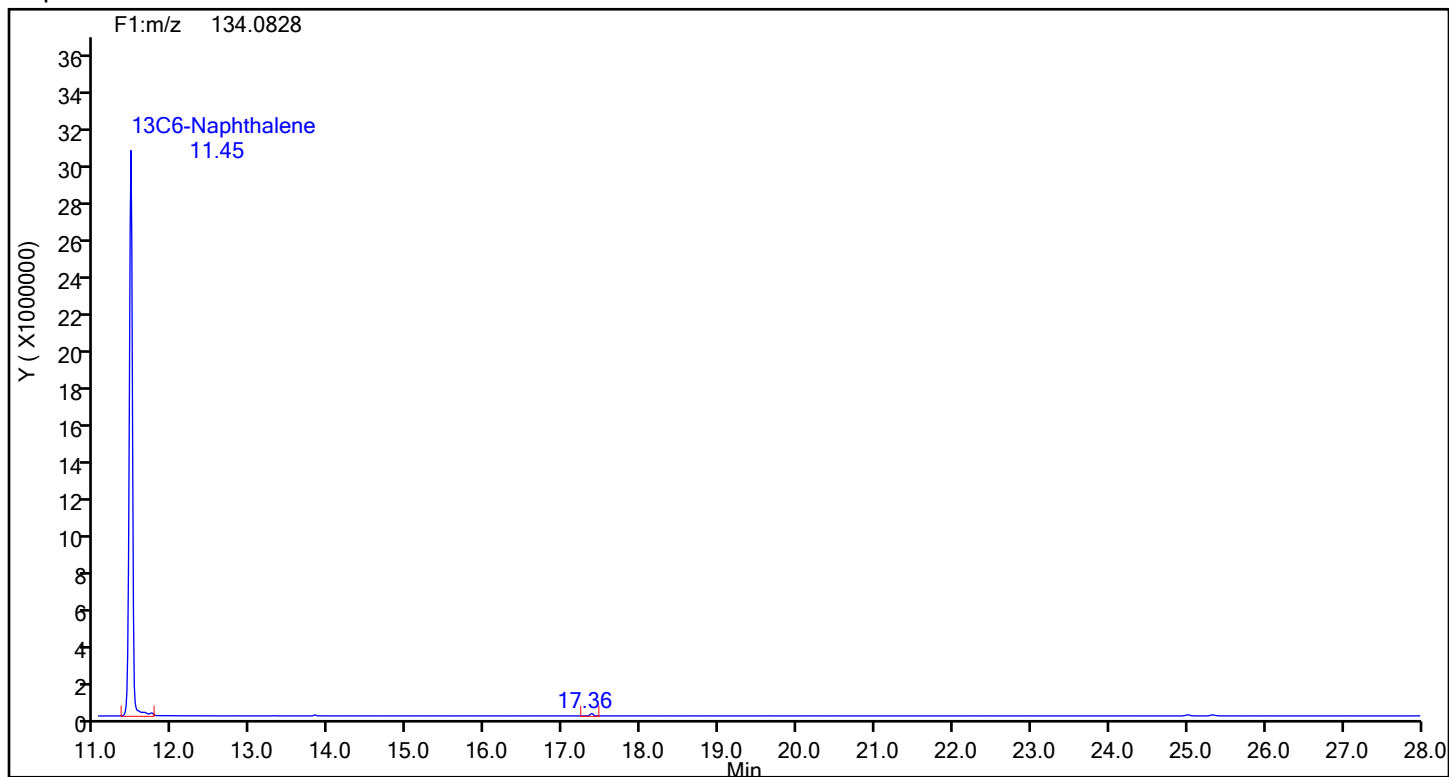
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Injection Date: 28-Jul-2024 13:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



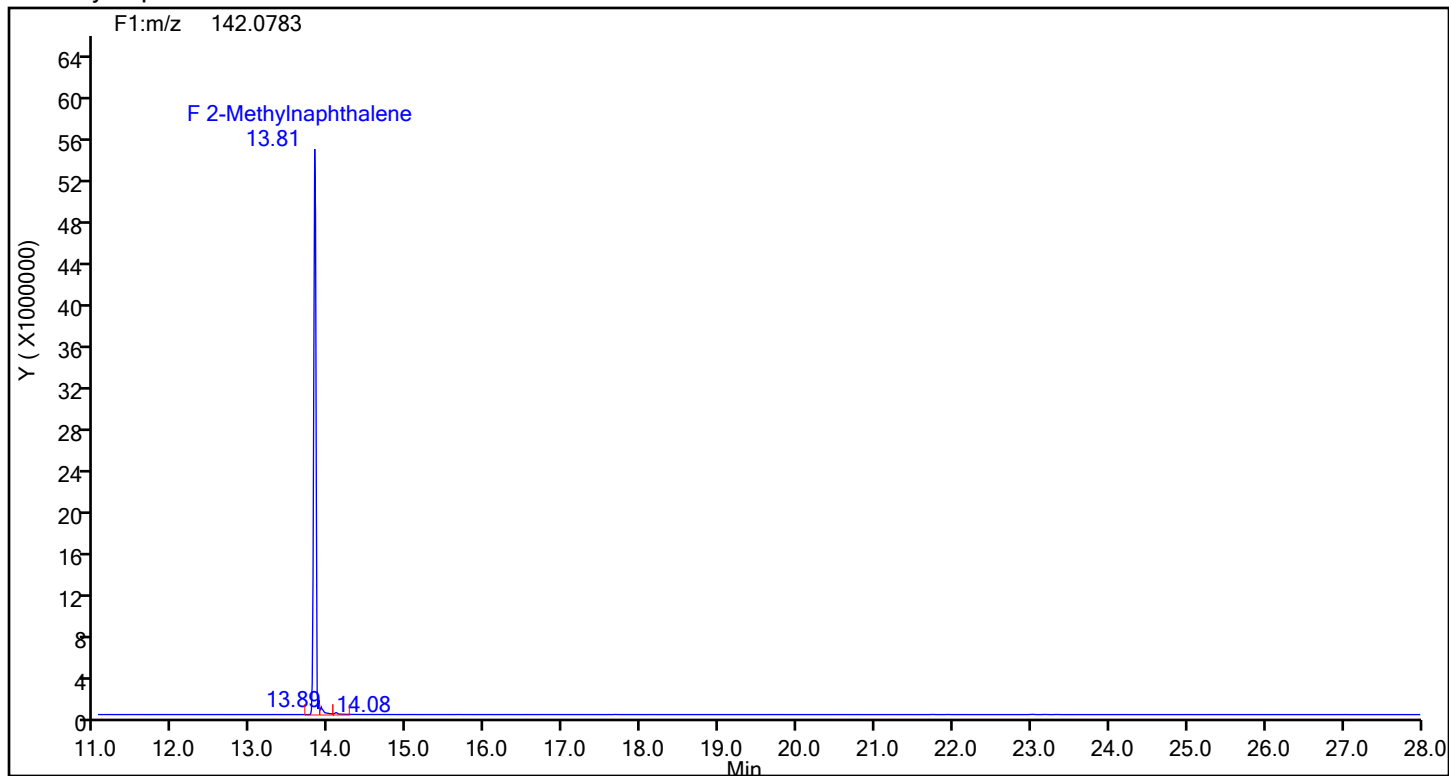
## Naphthalene Standards



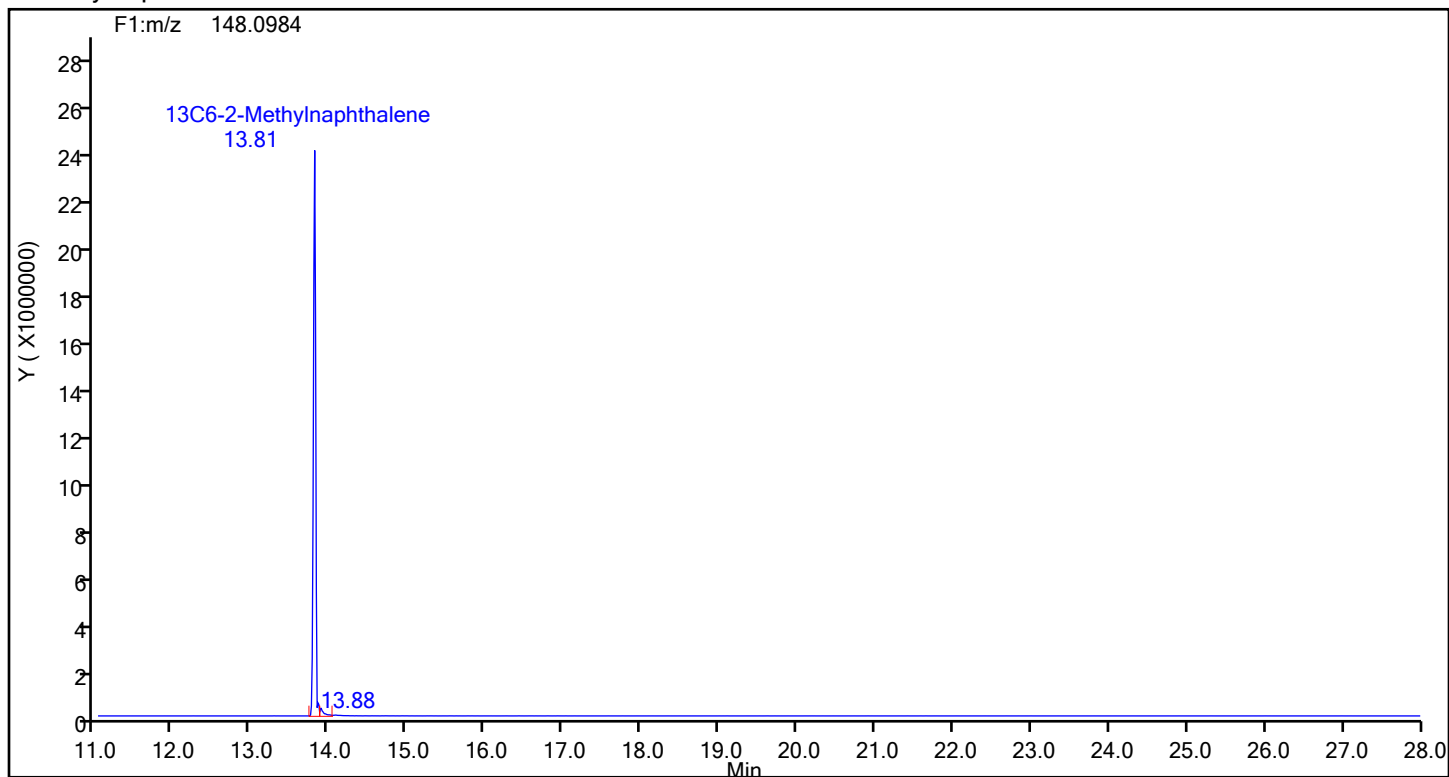
Eurofins Knoxville

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Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	89271	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
2-Methylnaphthalene			

2-Methylnaphthalene

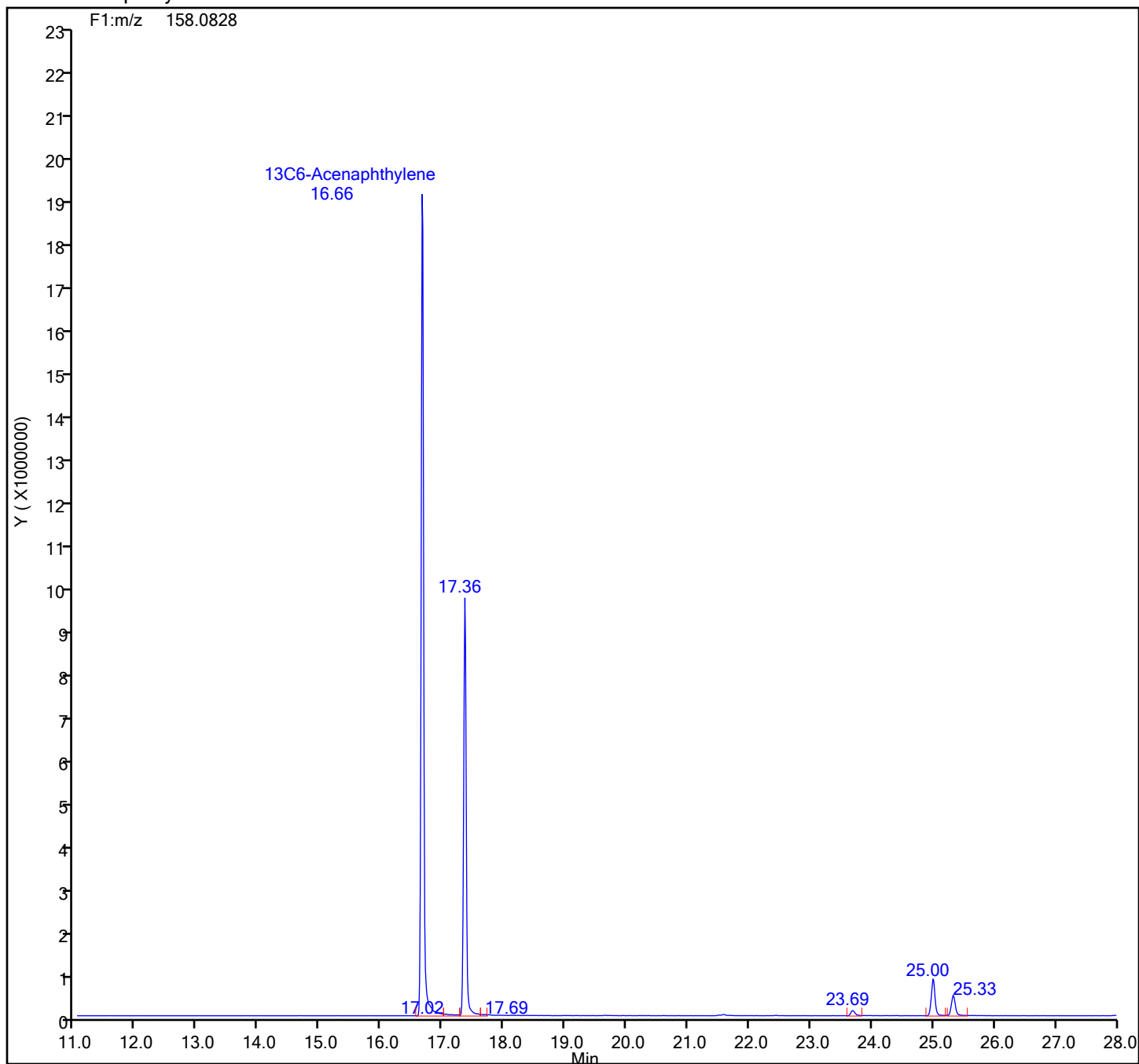


## 2-Methylnaphthalene Standards



## Eurofins Knoxville

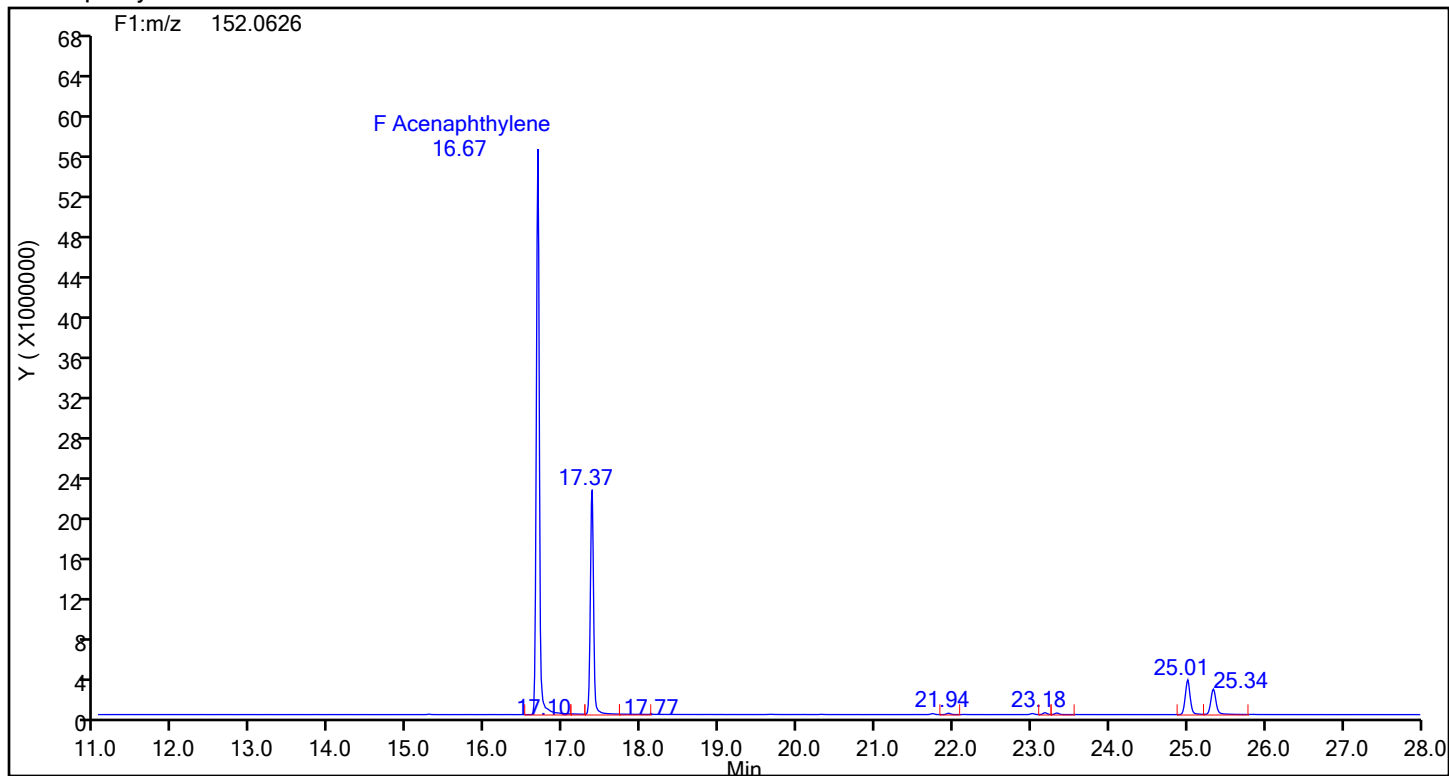
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
13C6-Acenaphthylene Standards



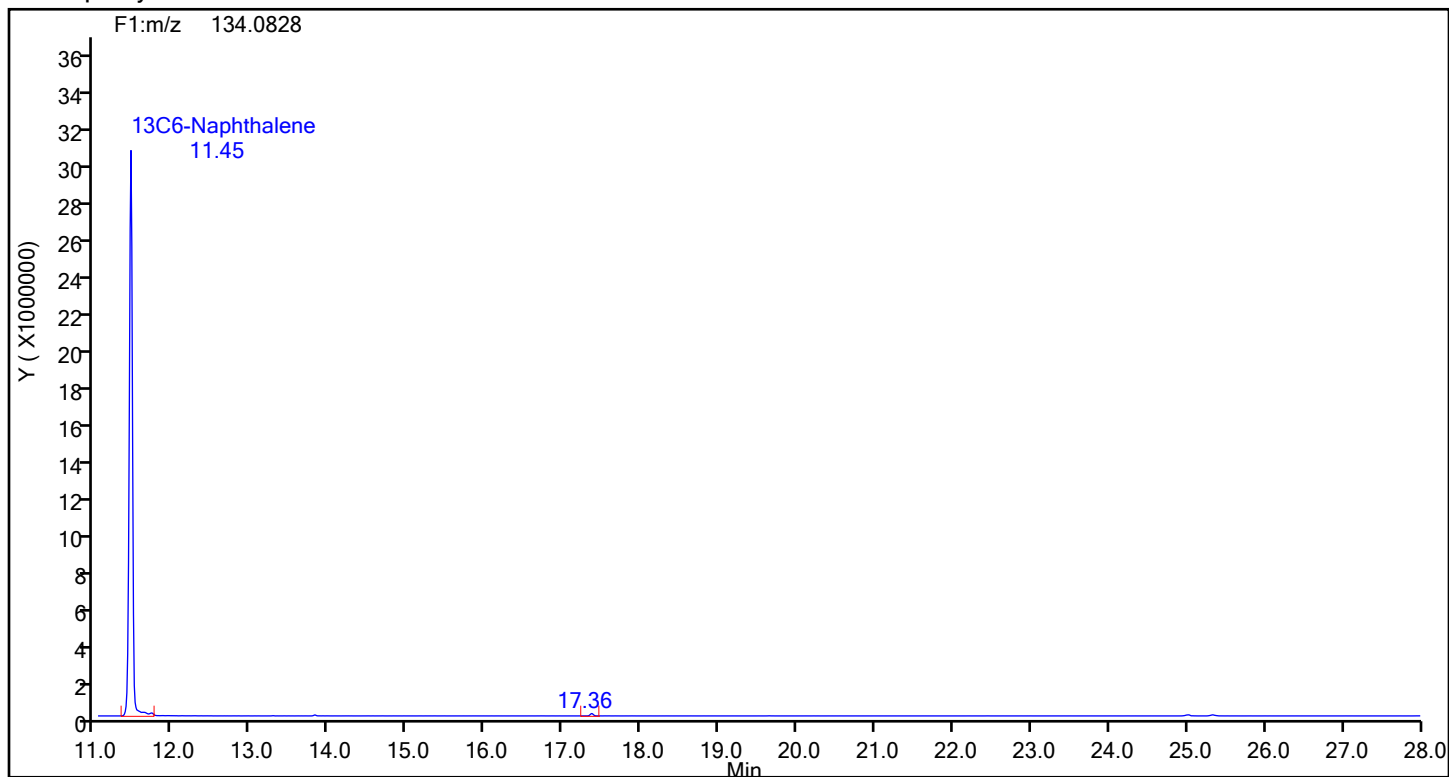
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



## Acenaphthylene Standards

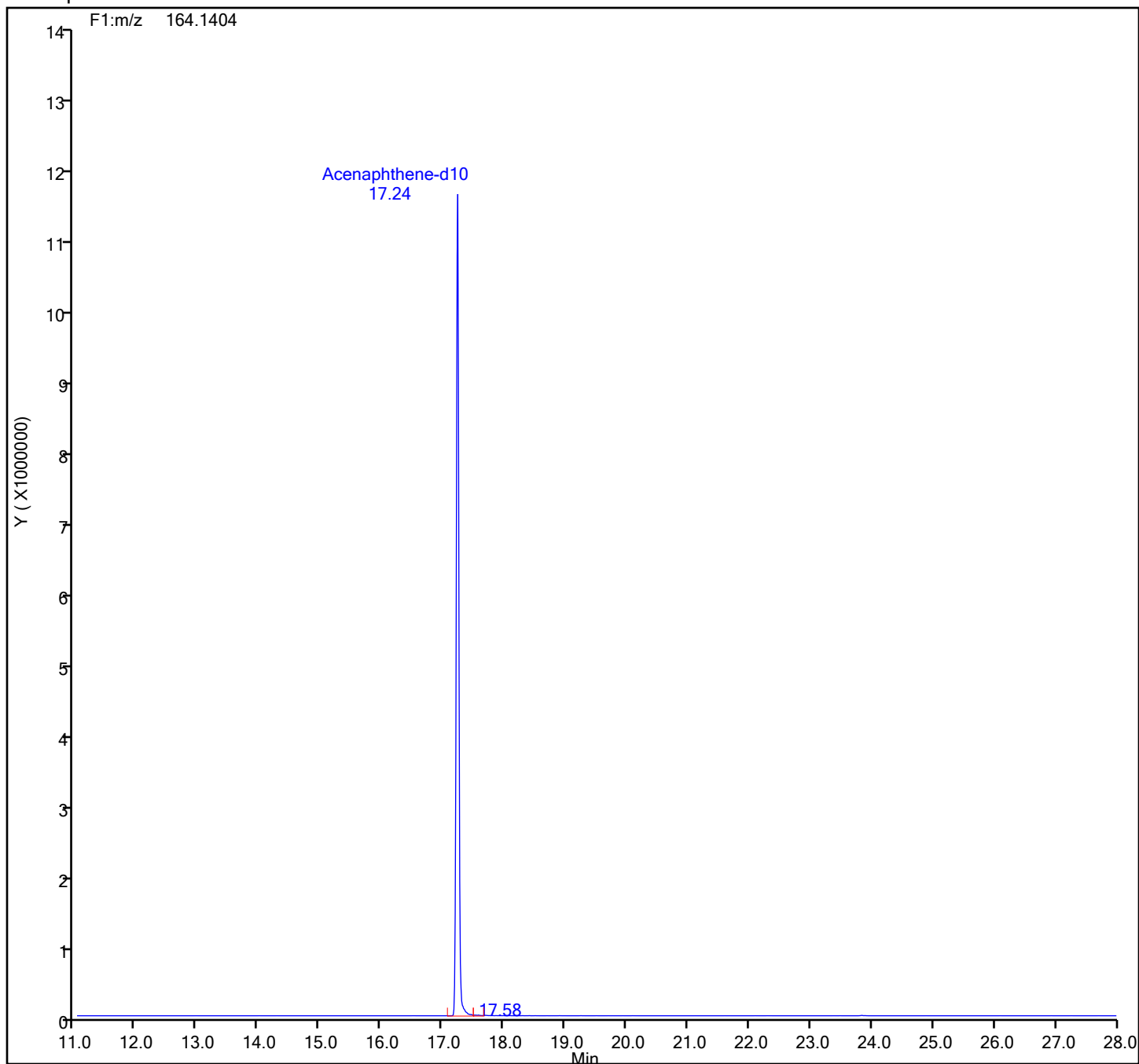




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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

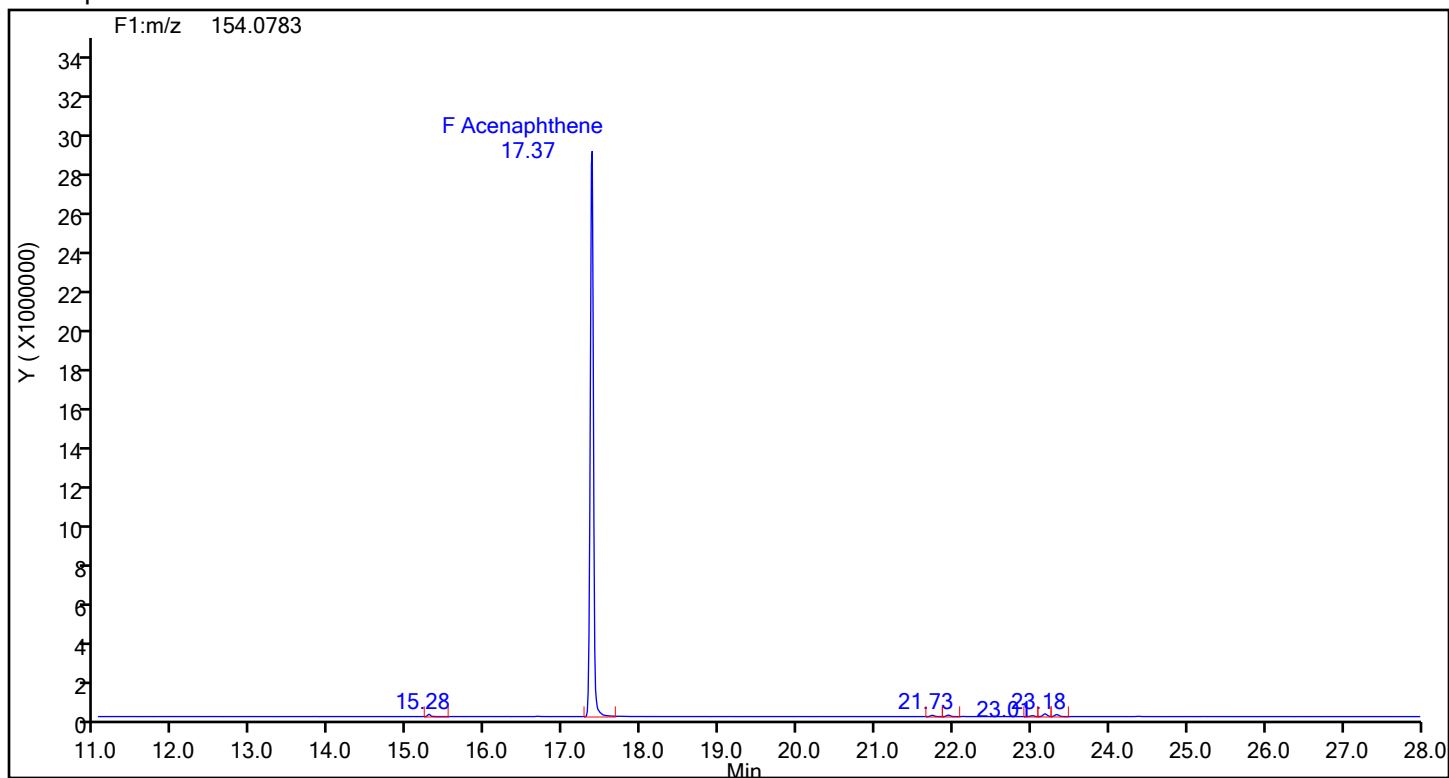
## Acenaphthene-d10 Standards



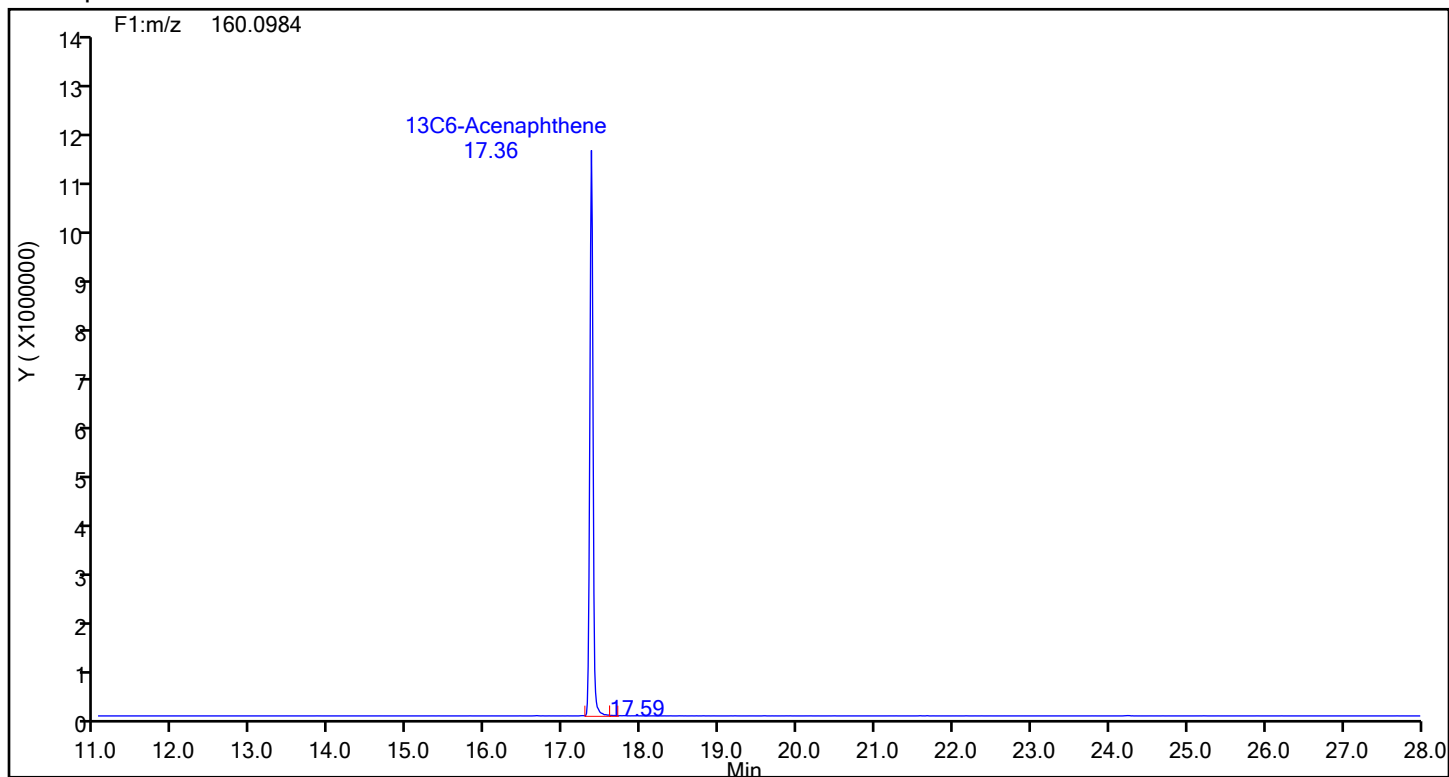
Eurofins Knoxville

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Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	89271	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Acenaphthene			

Acenaphthene



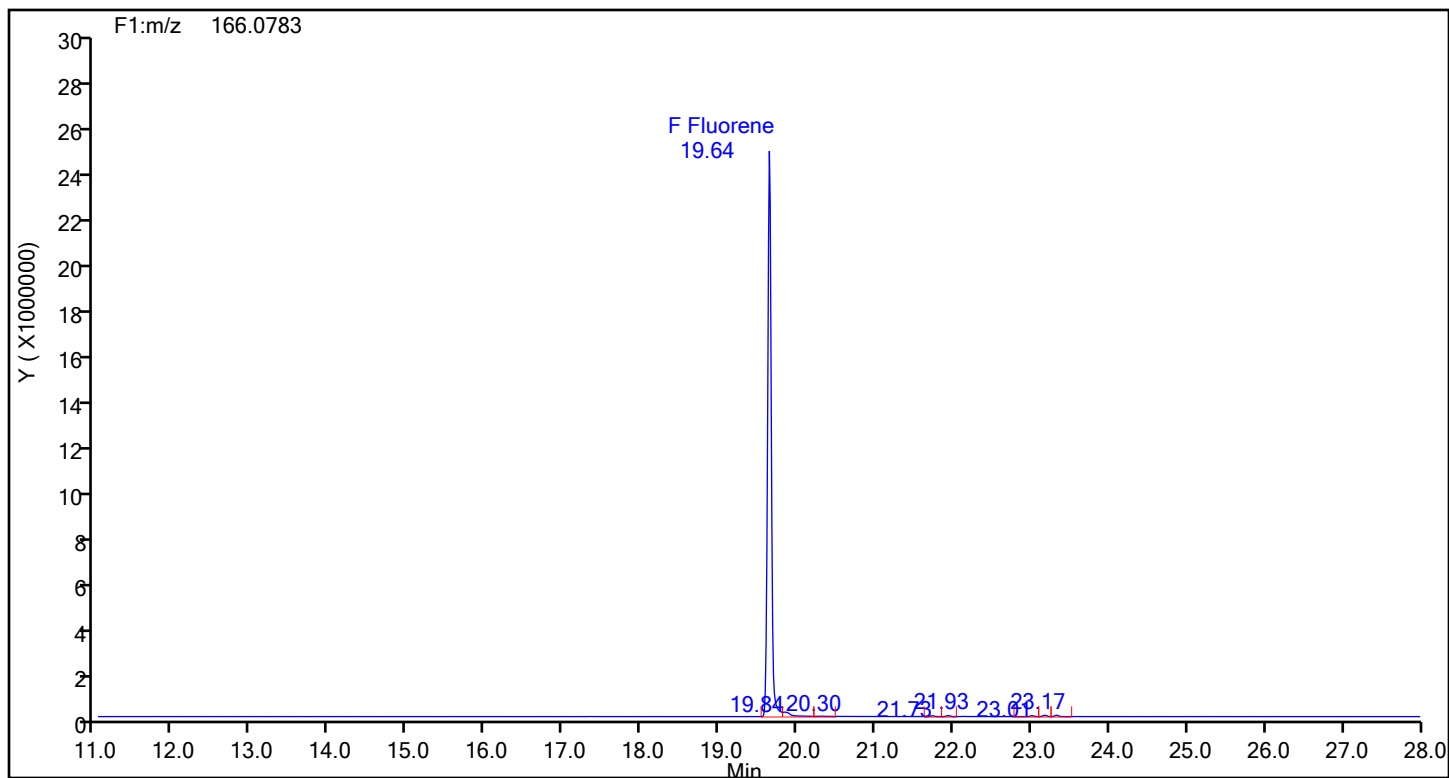
## Acenaphthene Standards



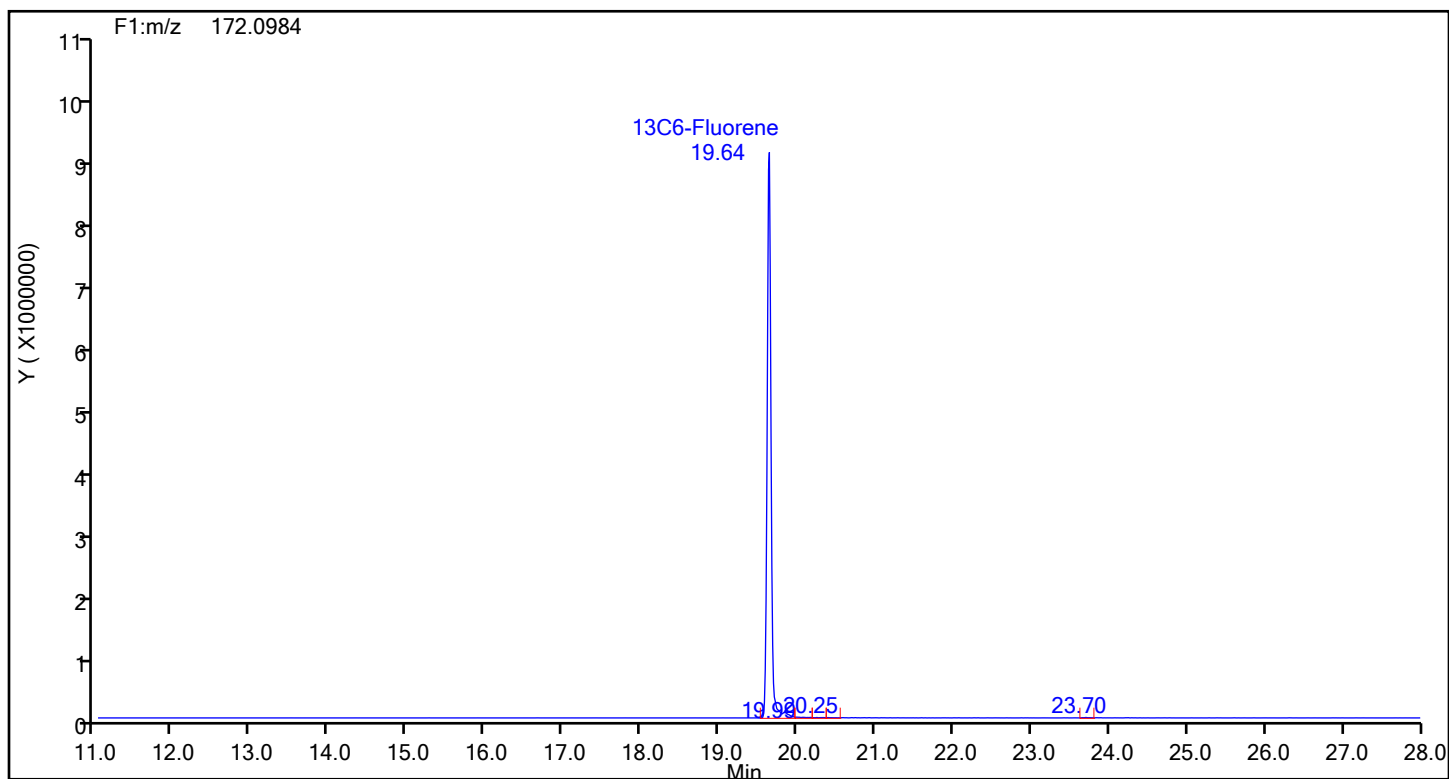
## Eurofins Knoxville

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Injection Date: 28-Jul-2024 13:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



## Fluorene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240726-33697.b\d3240728c1a.d

Injection Date: 28-Jul-2024 13:04:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

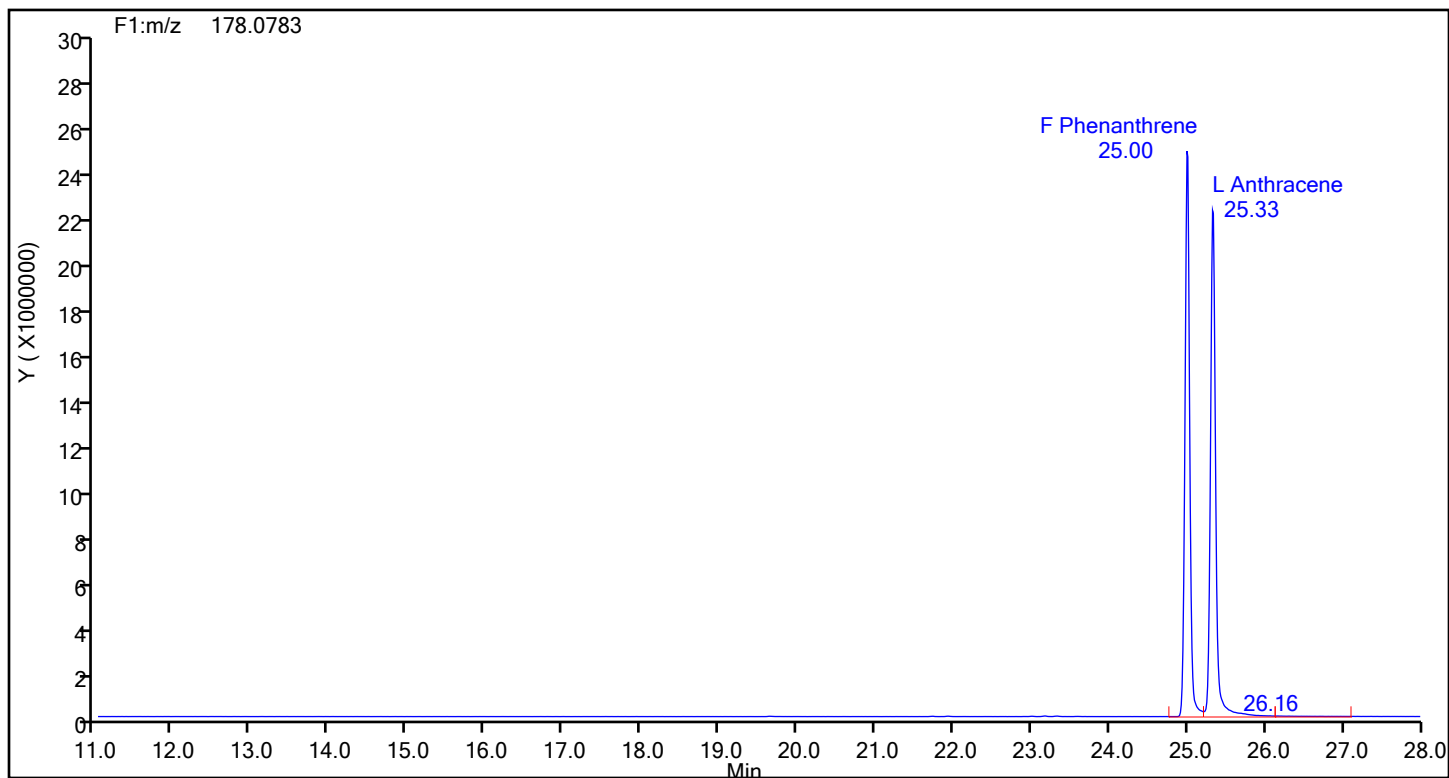
Worklist#: 89271

Sample Line#: 1

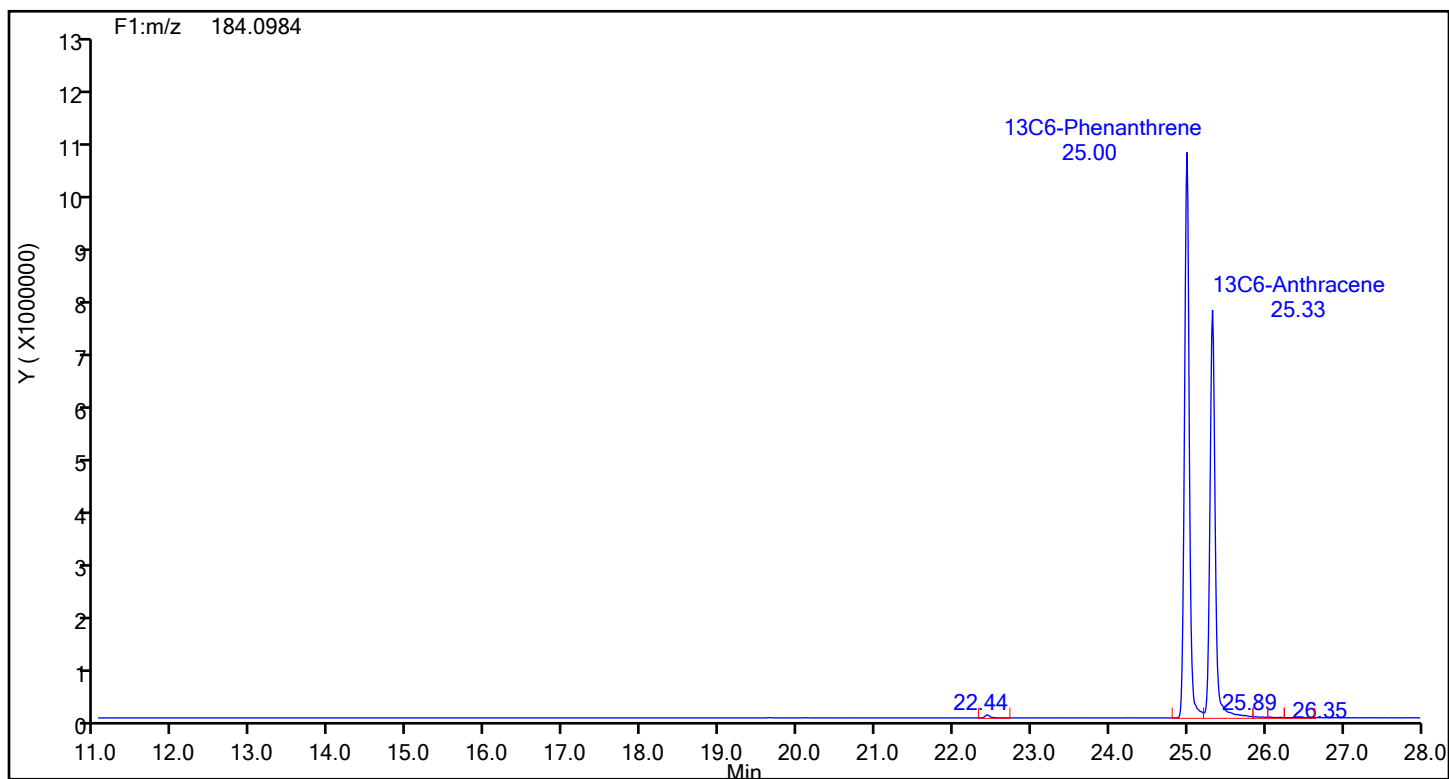
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Phenanthrene

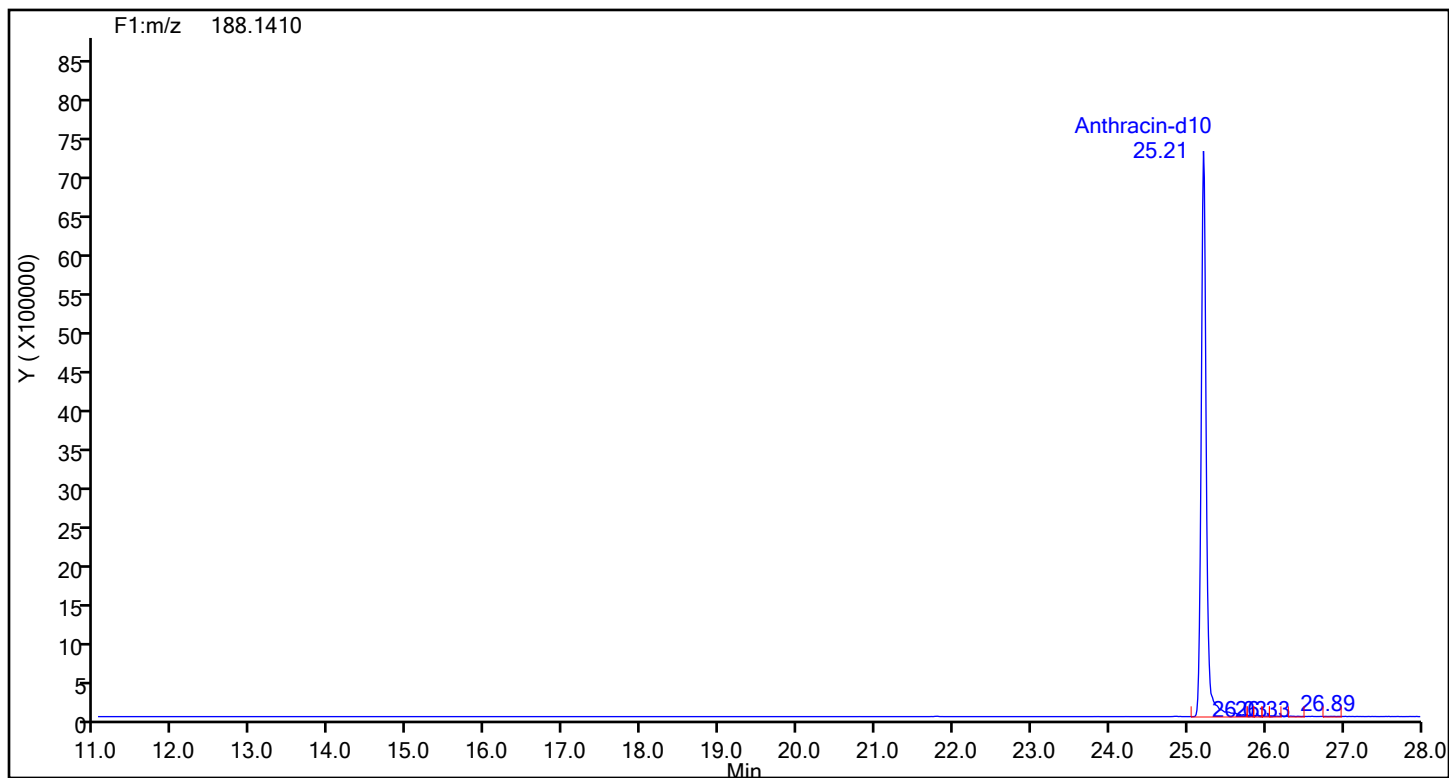


## Phenanthrene Standards

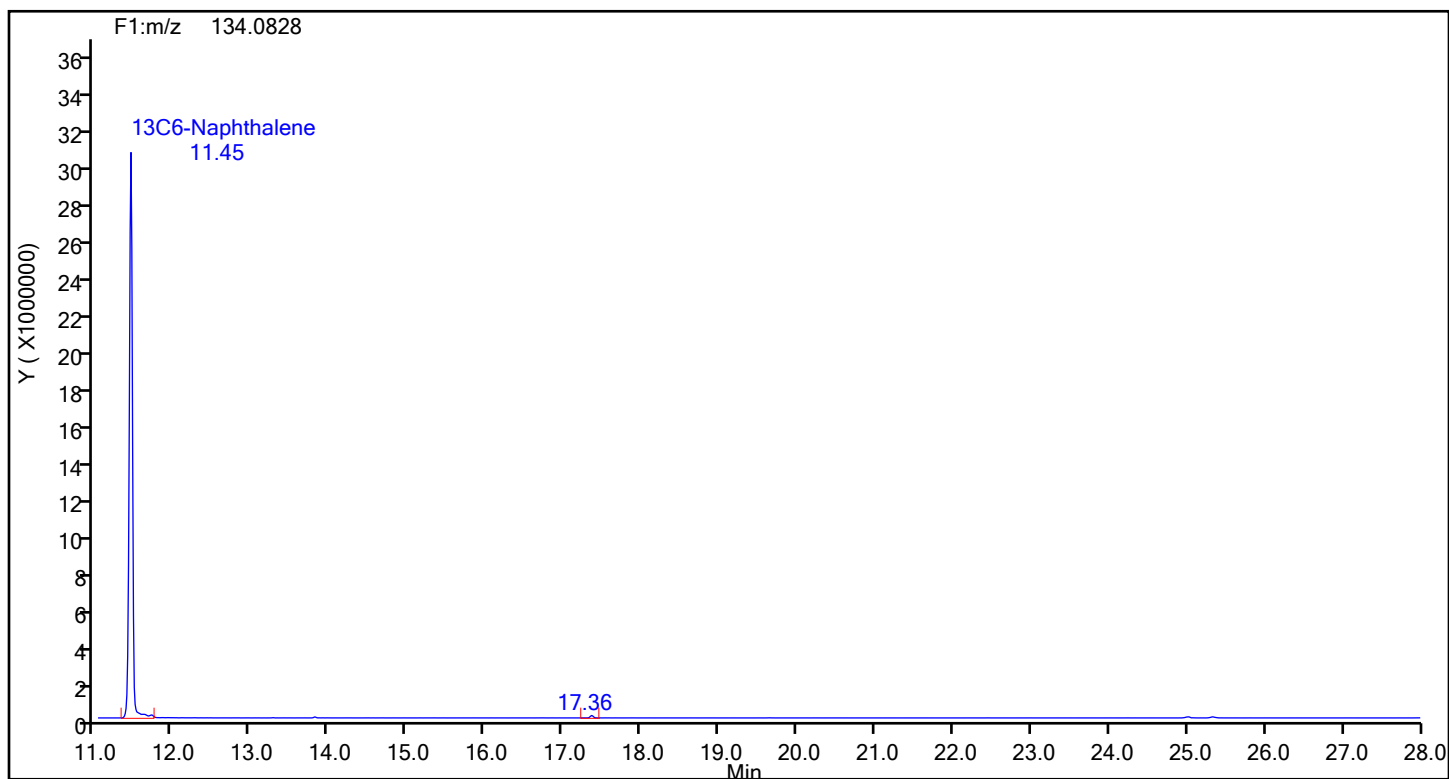


Eurofins Knoxville

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Injection Date:	28-Jul-2024 13:04:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	89271	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Anthracin-d10			

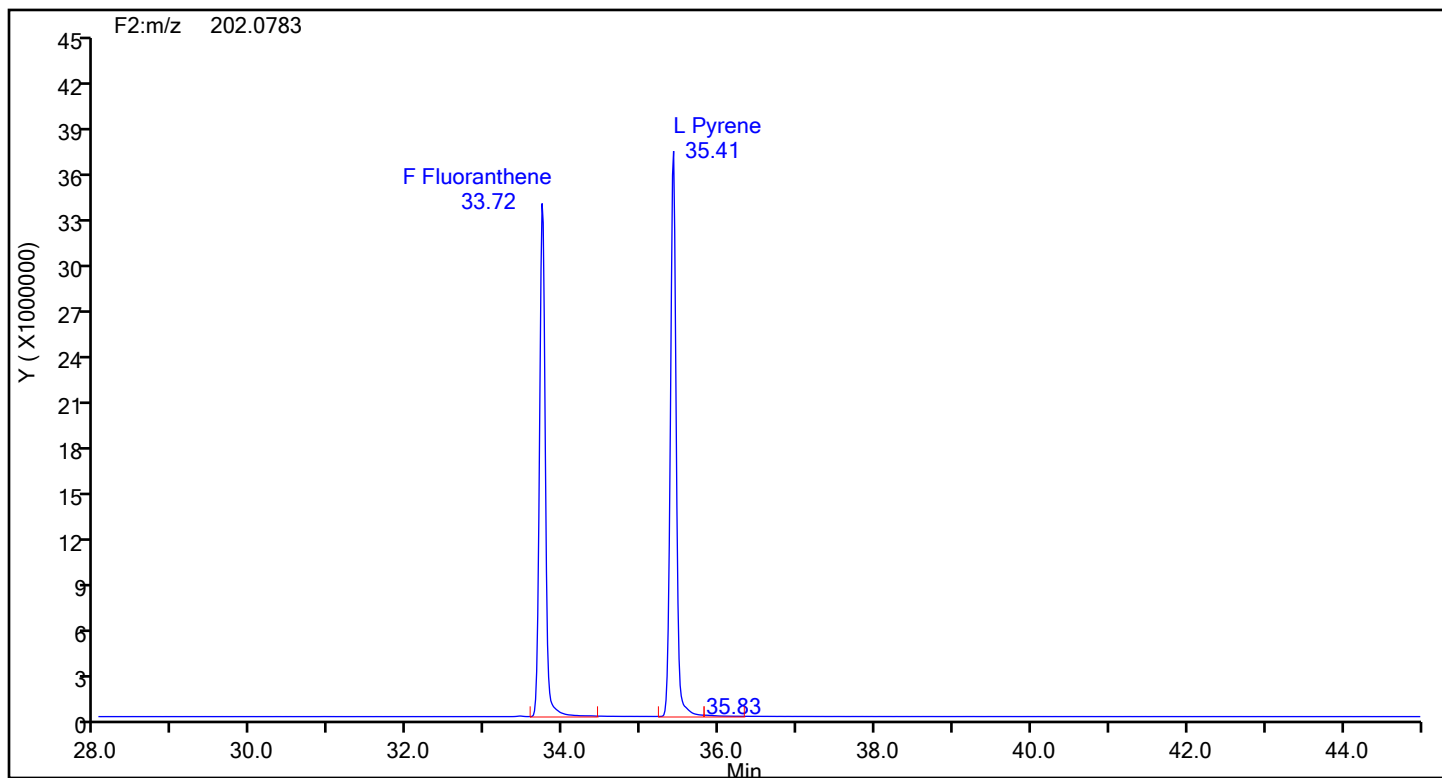


### Anthracin-d10 Standards

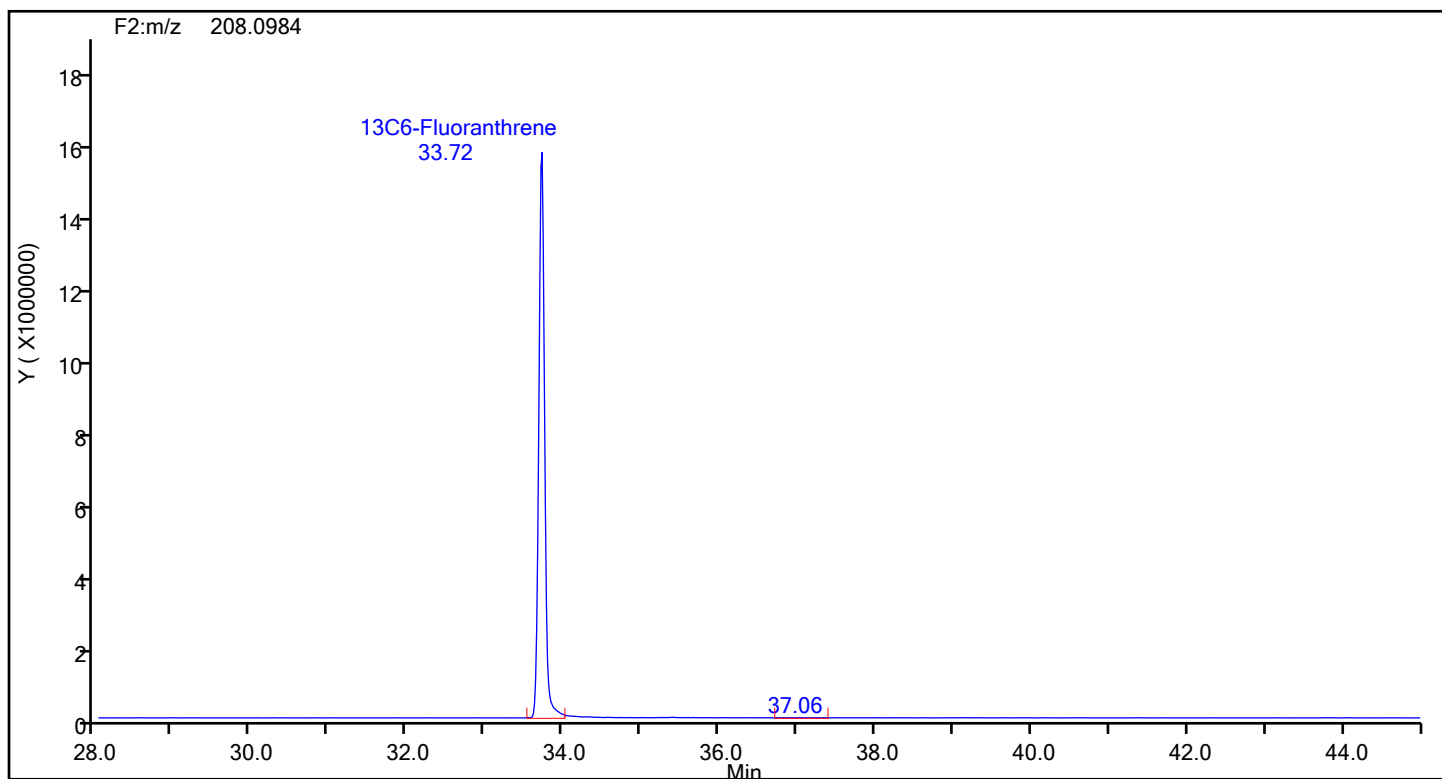


## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



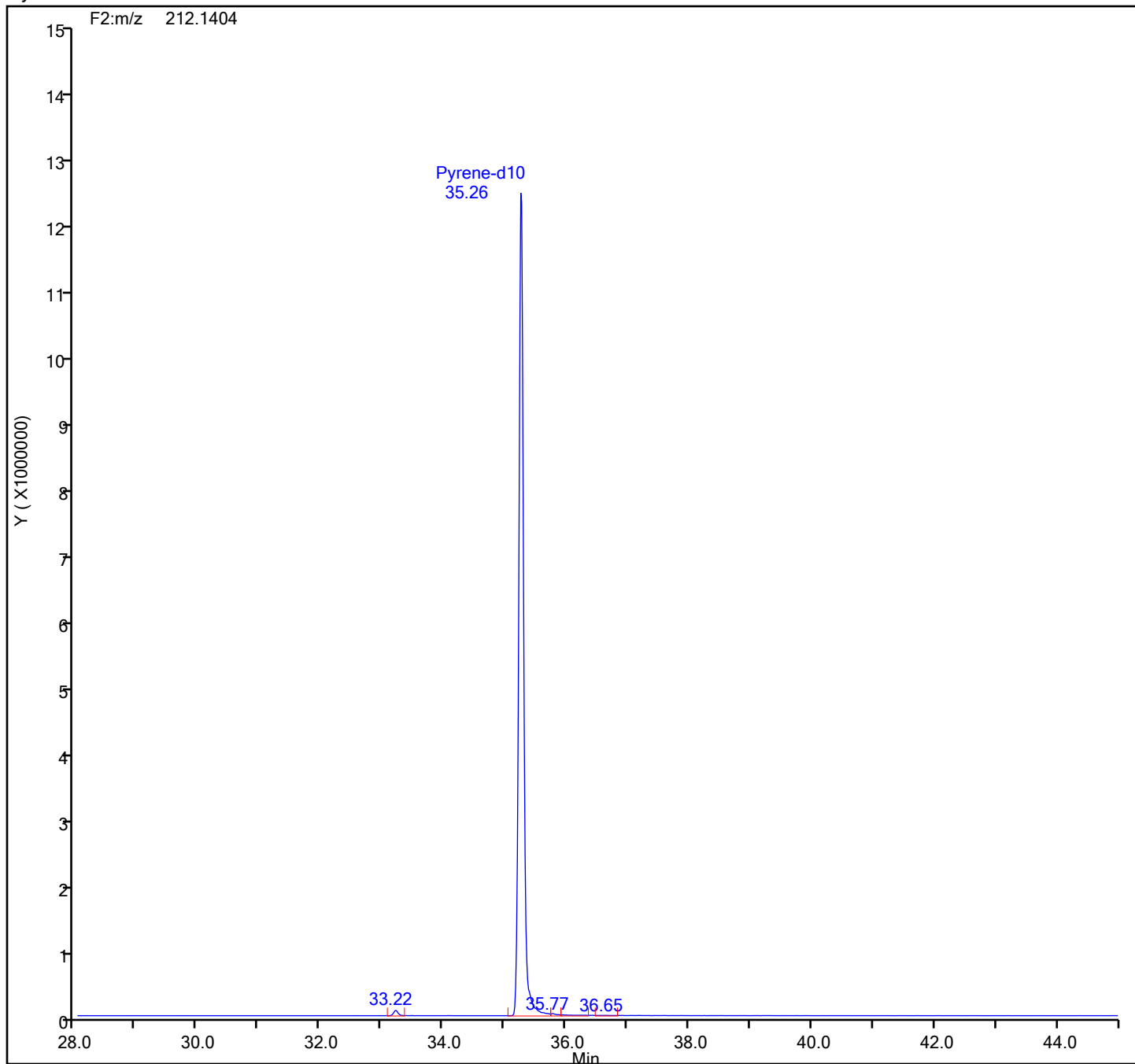
## Fluoranthene Standards



## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

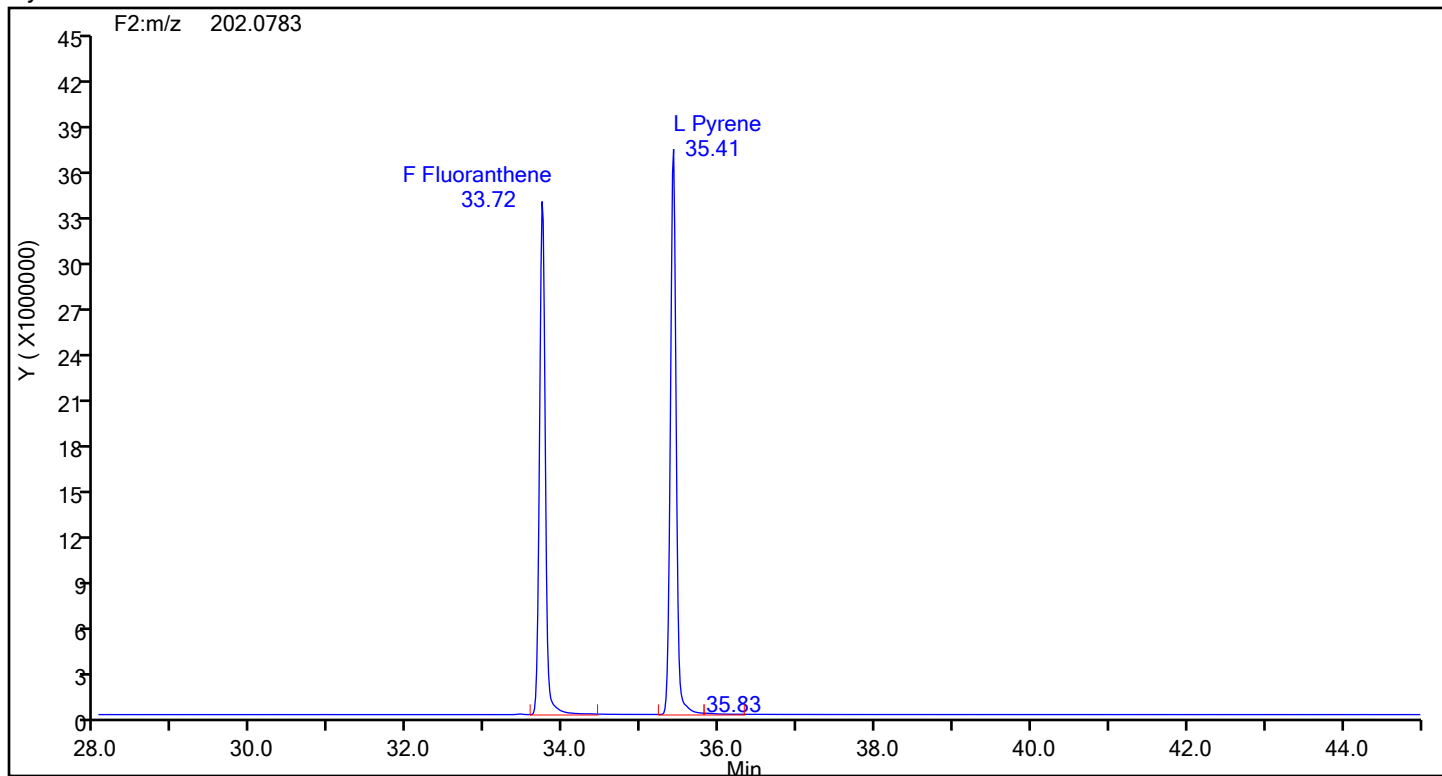
## Pyrene-d10 Standards



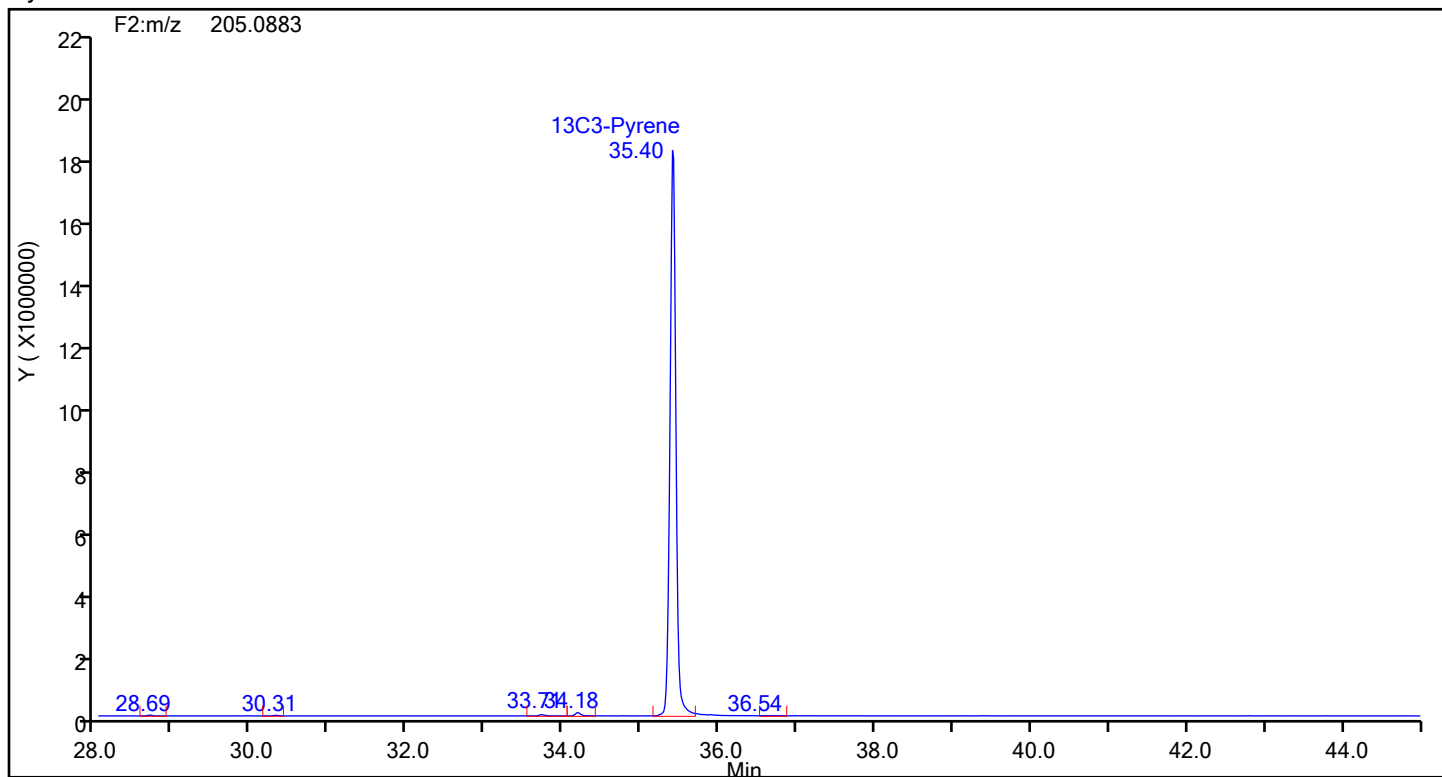
Eurofins Knoxville

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Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	89271	Sample Line#:	1
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Pyrene			

## Pyrene



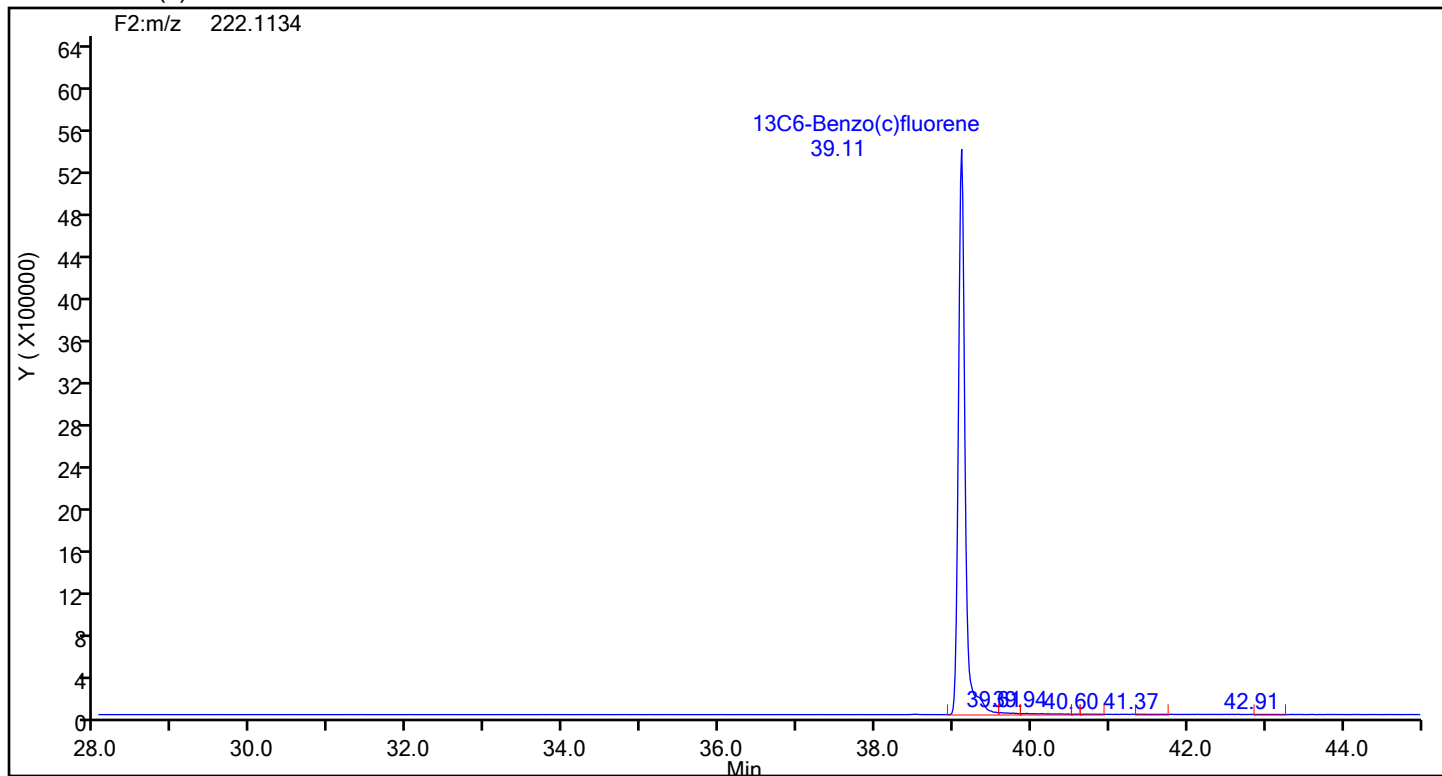
## Pyrene Standards



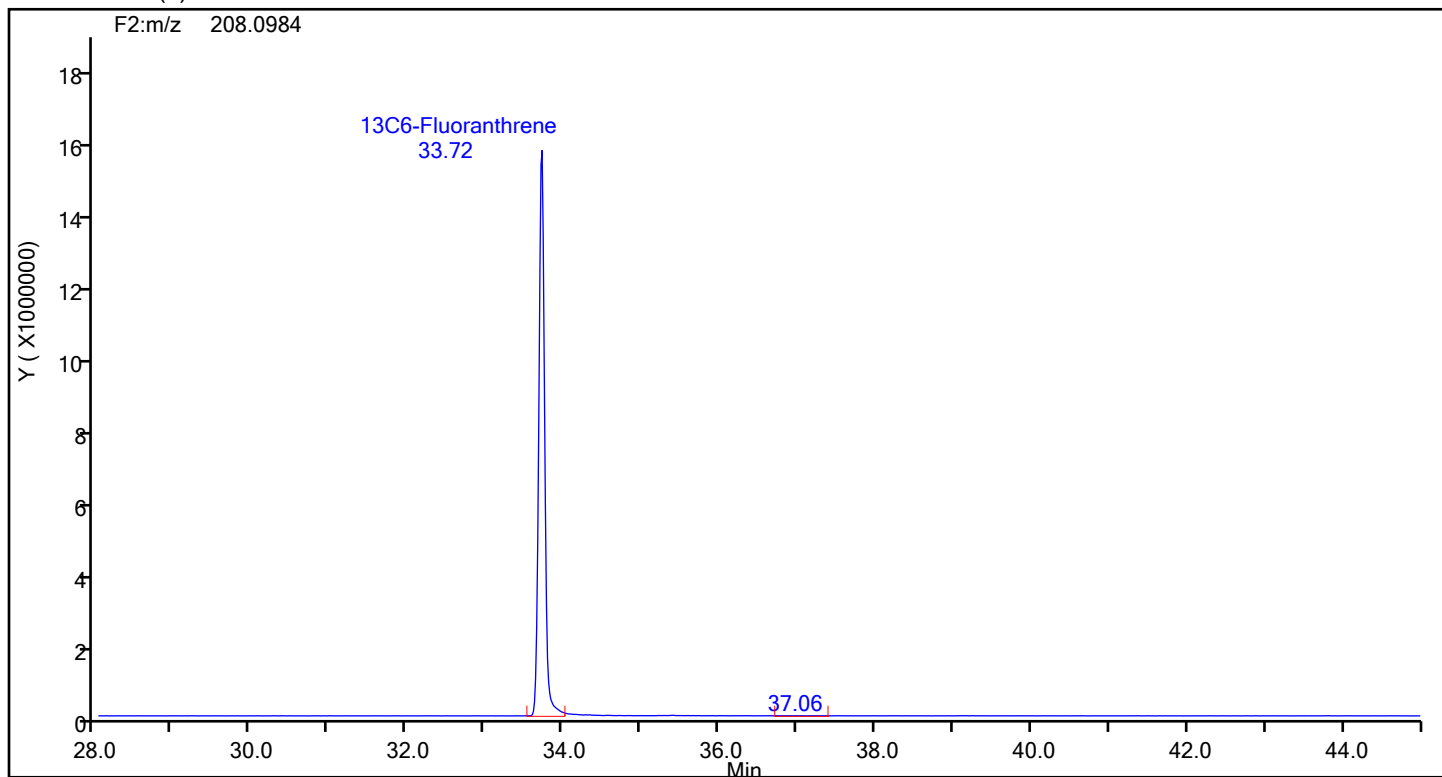


## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
13C6-Benzo(c)fluorene



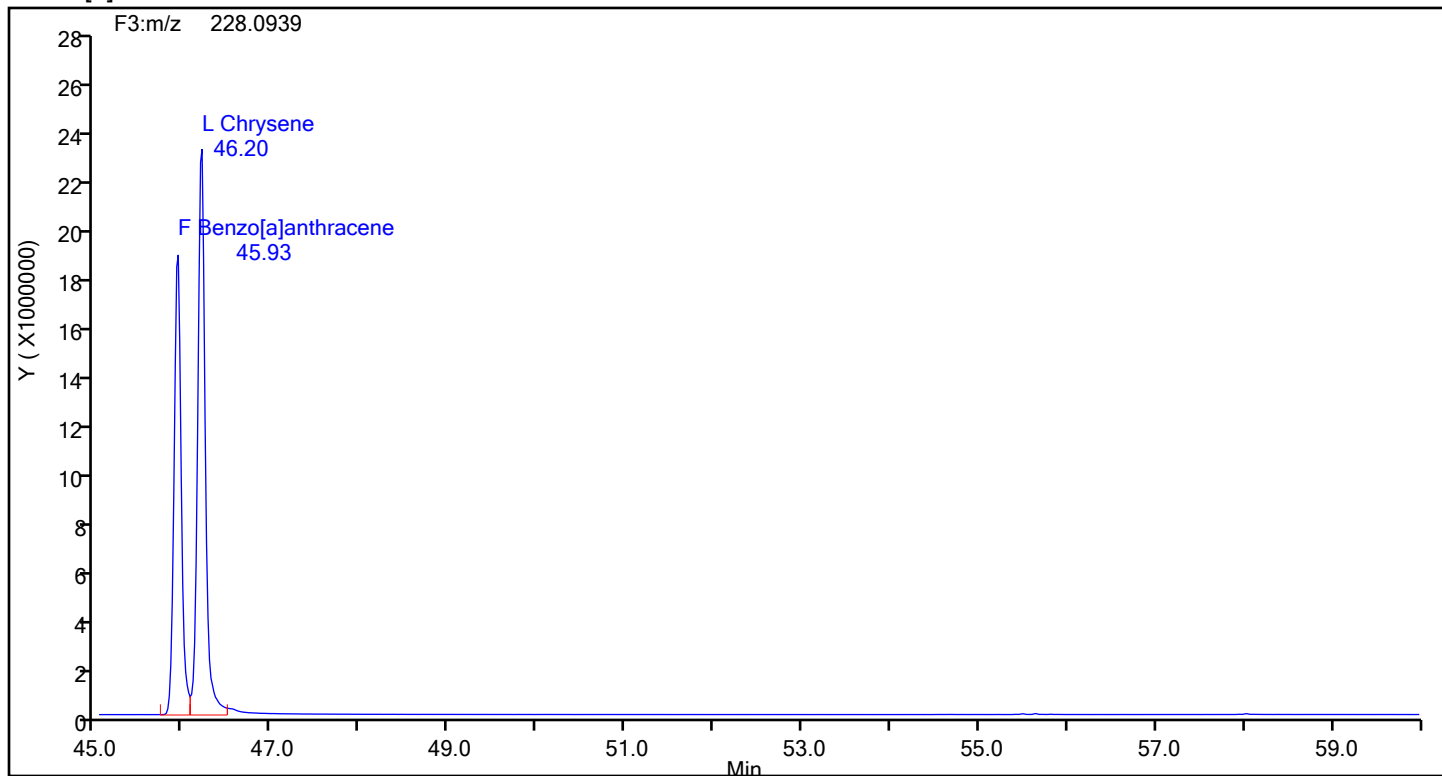
## 13C6-Benzo(c)fluorene Standards



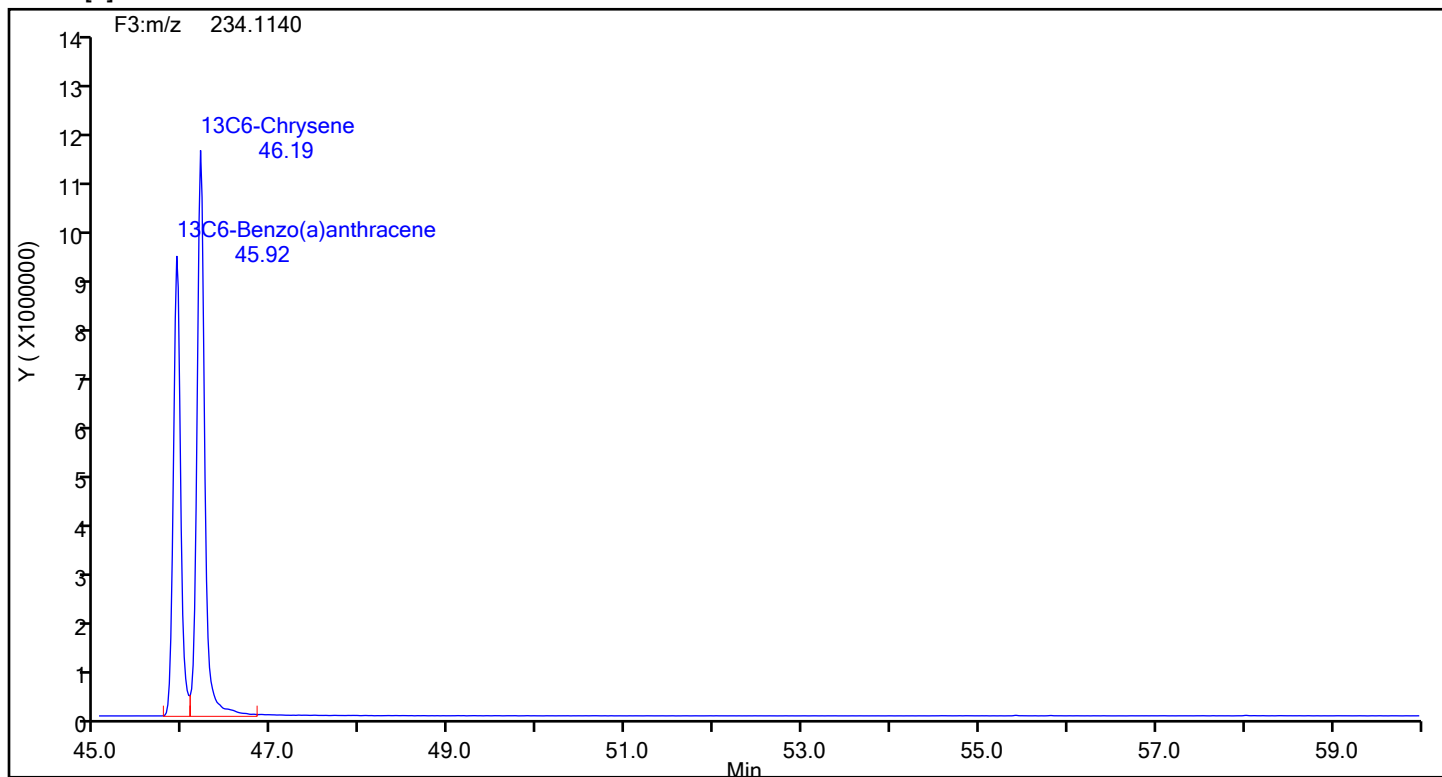
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



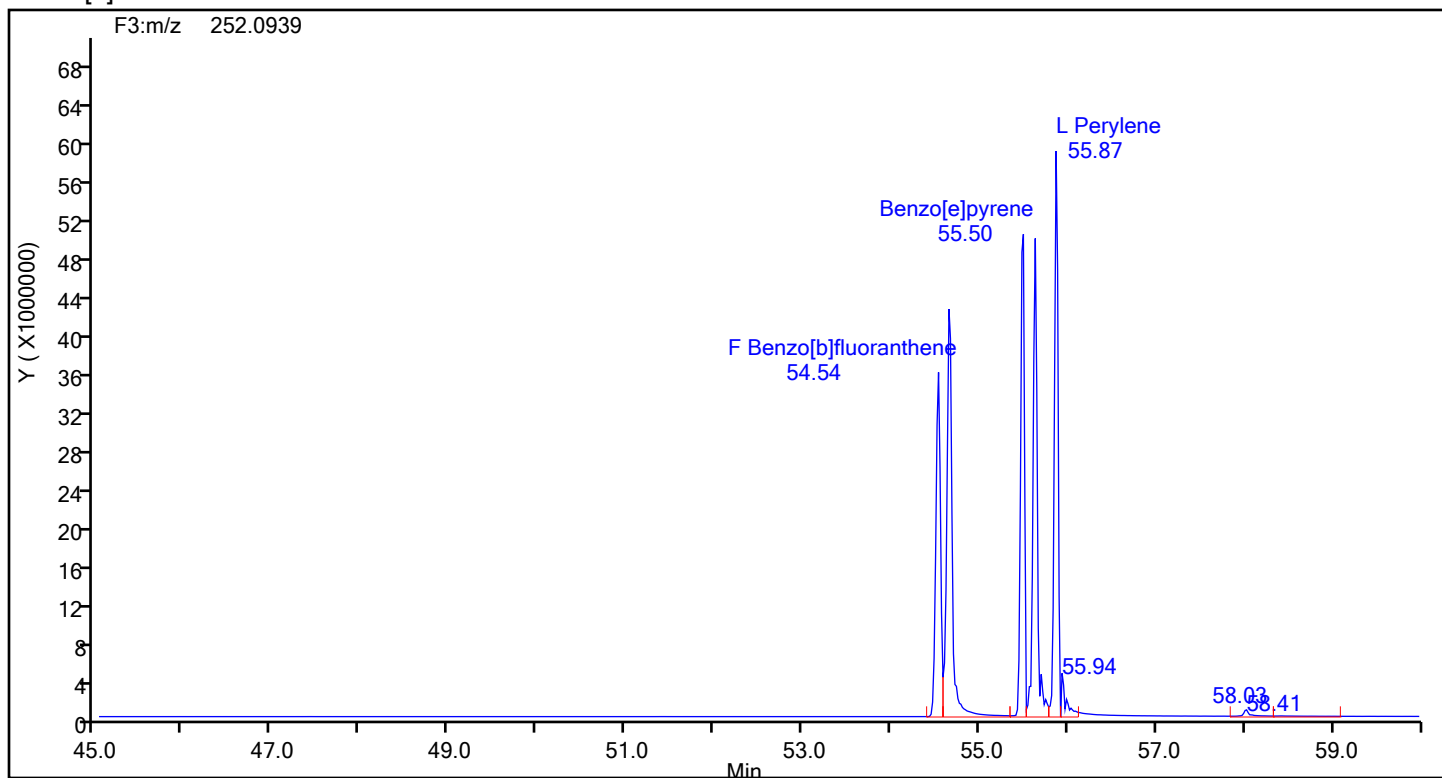
## Benzo[a]anthracene Standards



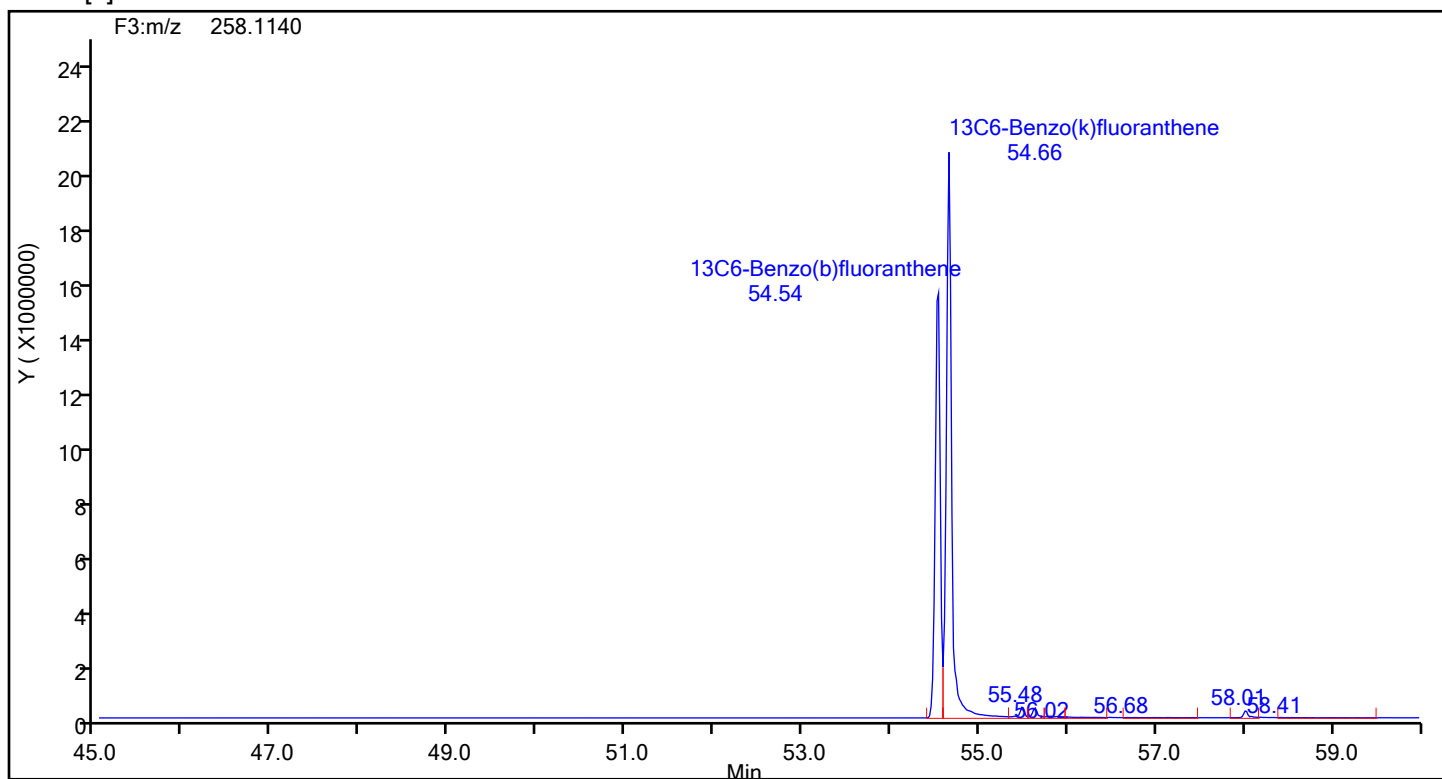
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



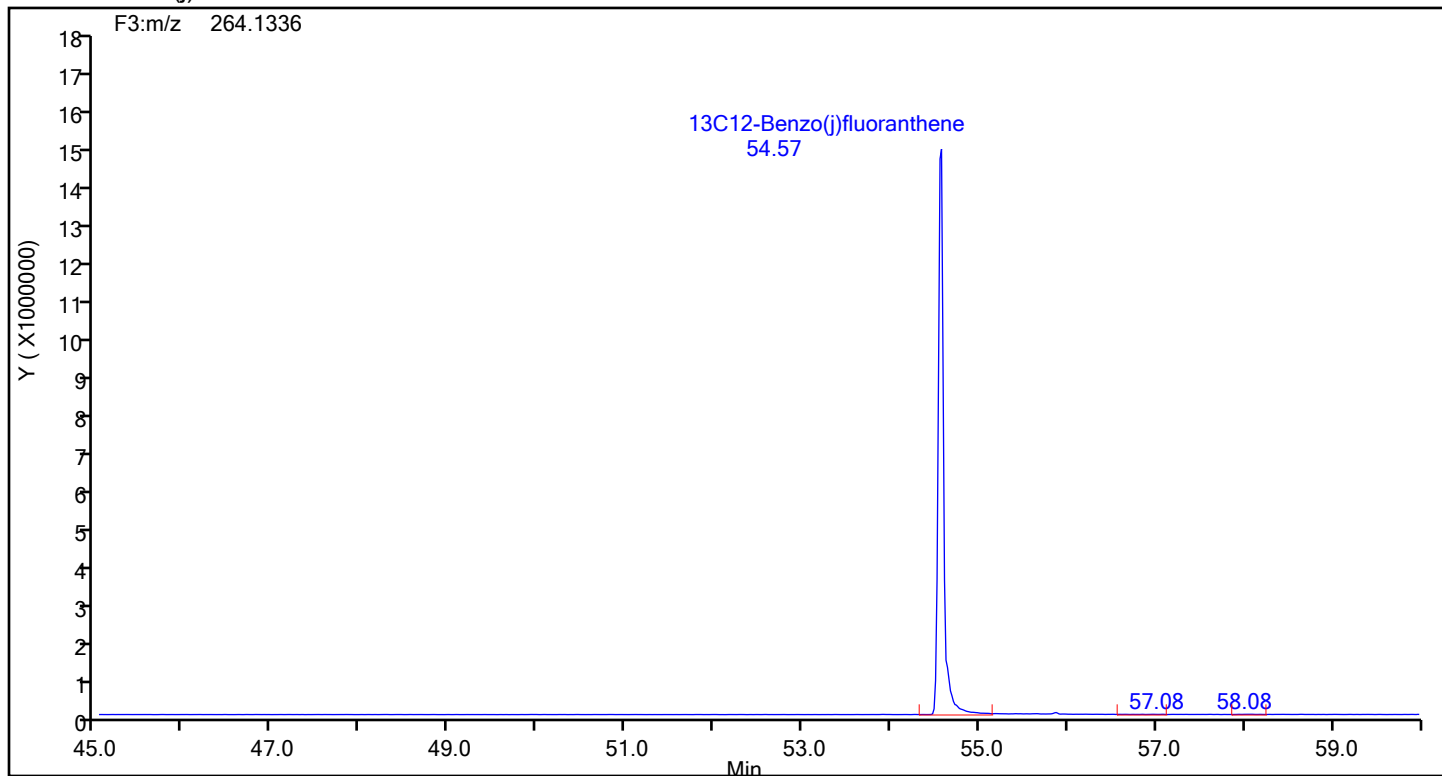
## Benzo[b]fluoranthene Standards



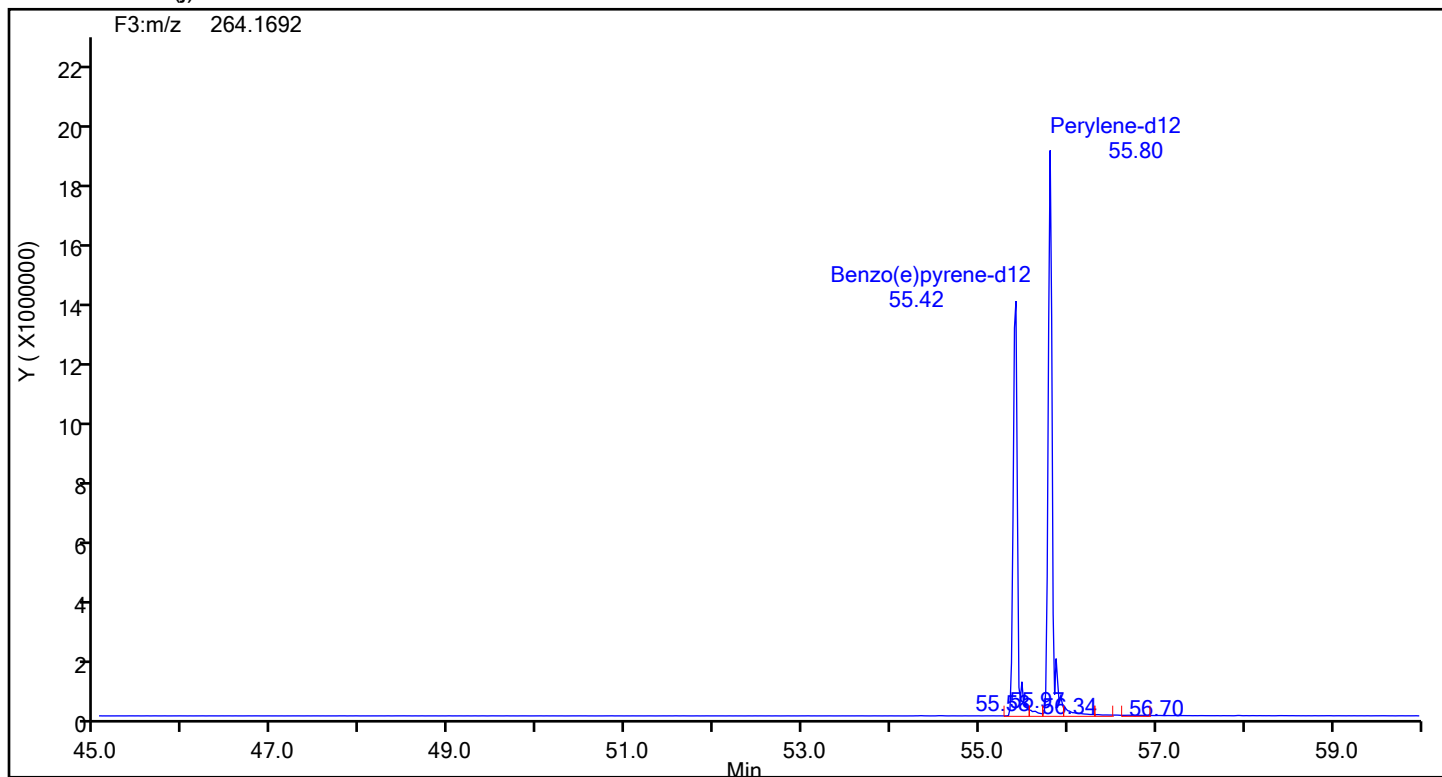
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Injection Date: 28-Jul-2024 13:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



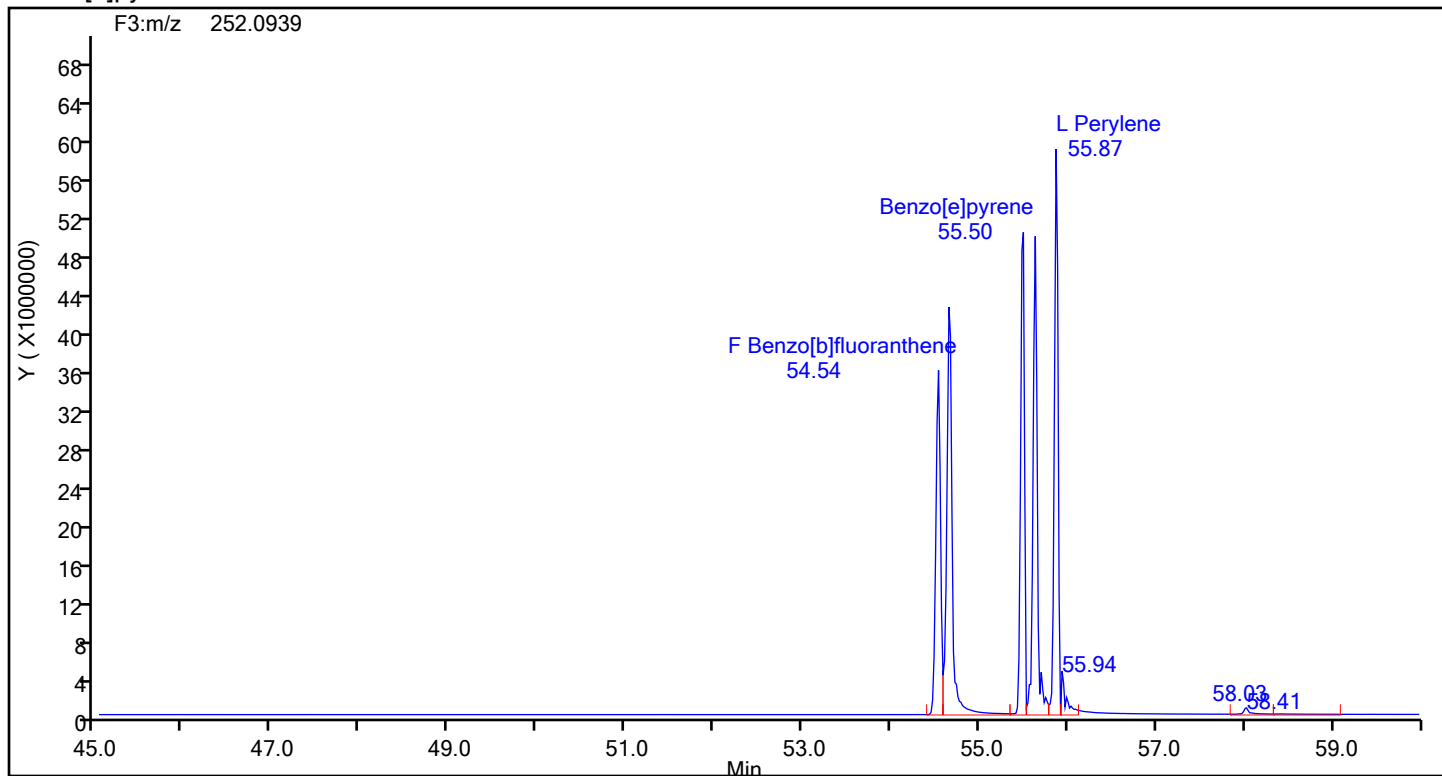
## 13C12-Benzo(j)fluoranthene Standards



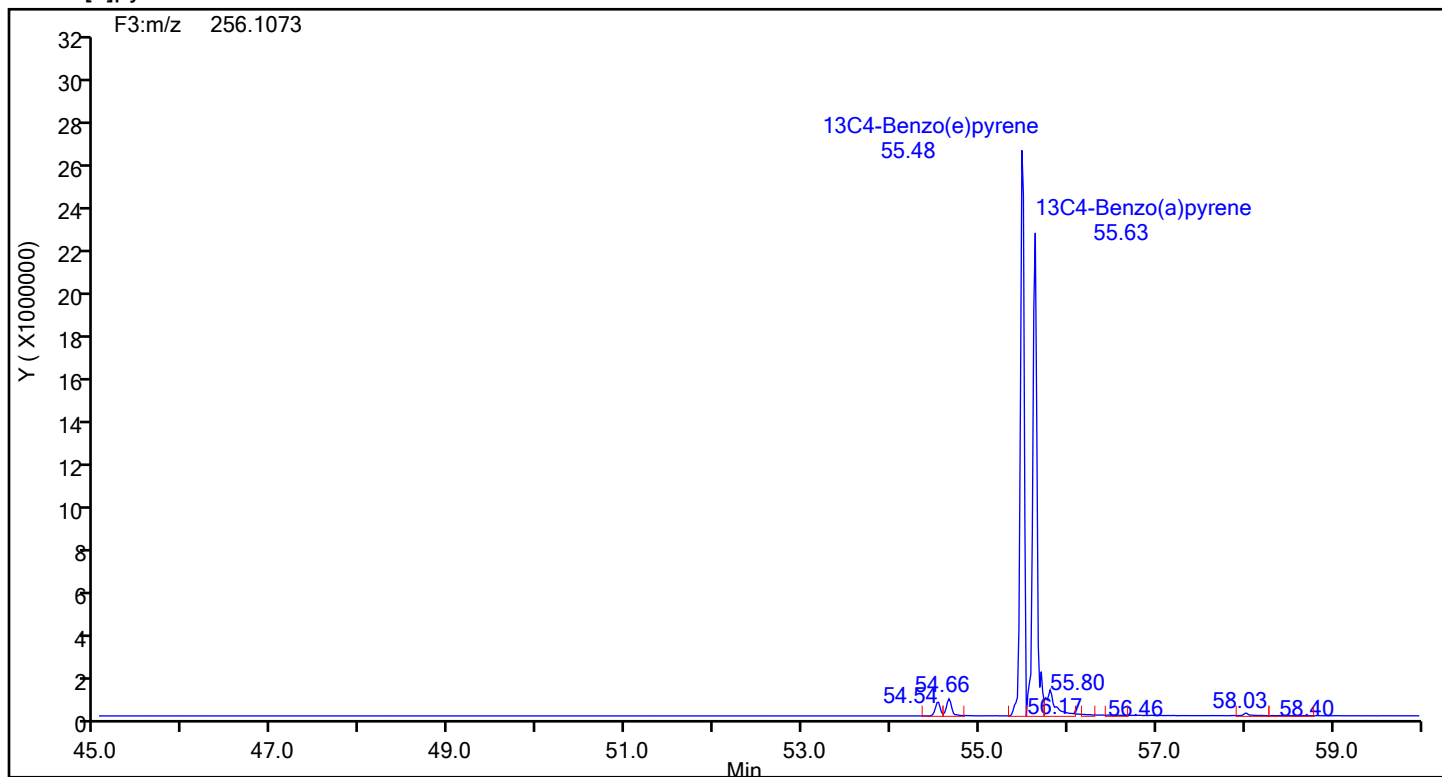
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene

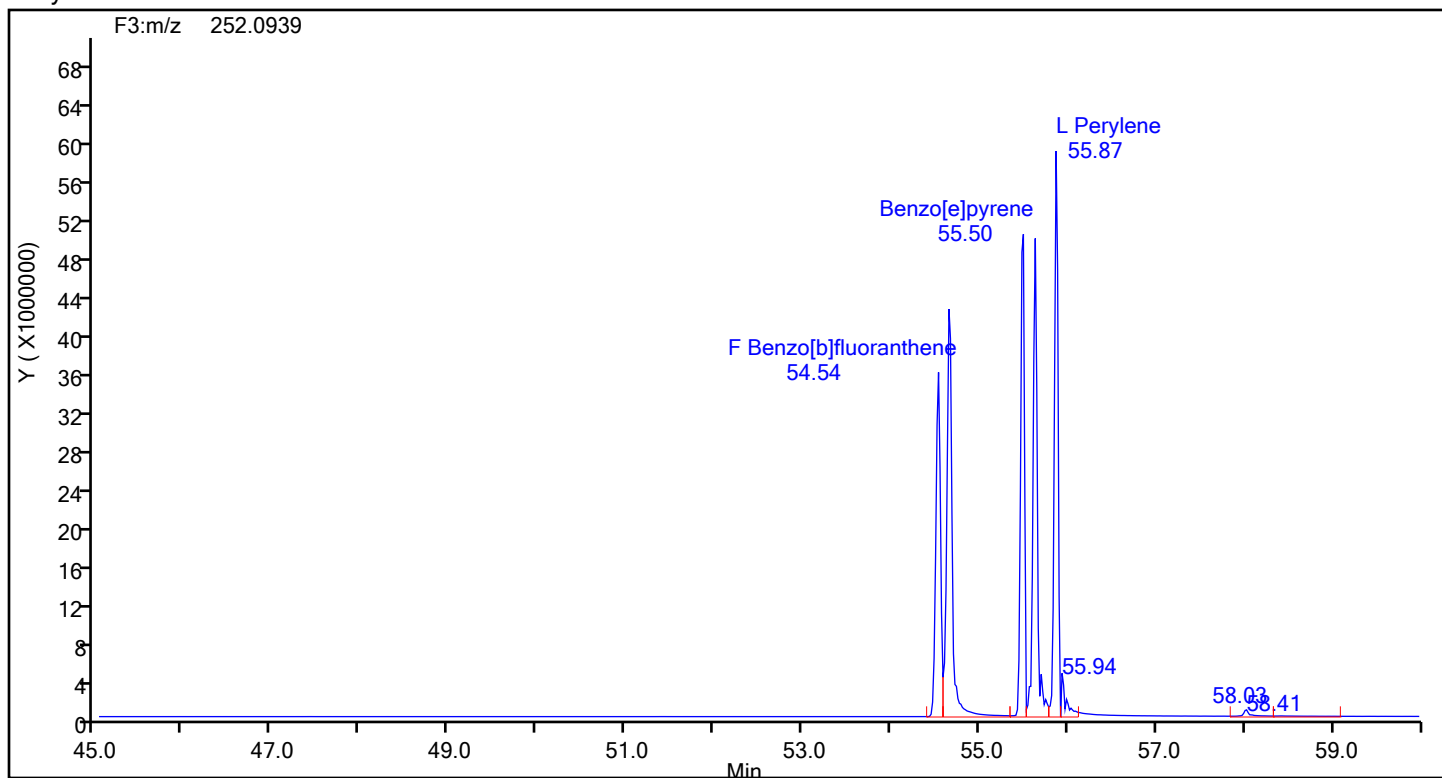


## Benzo[e]pyrene Standards

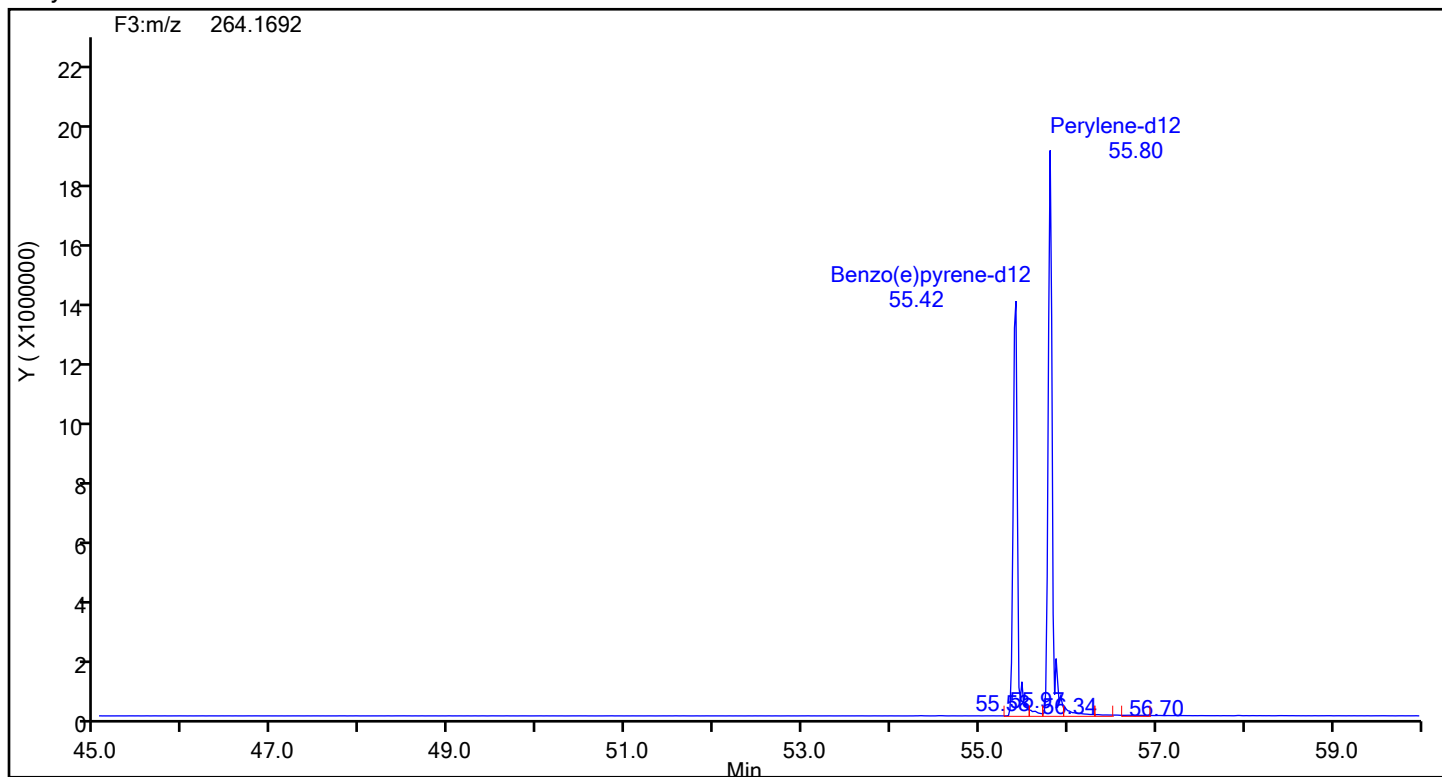


## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Perylene



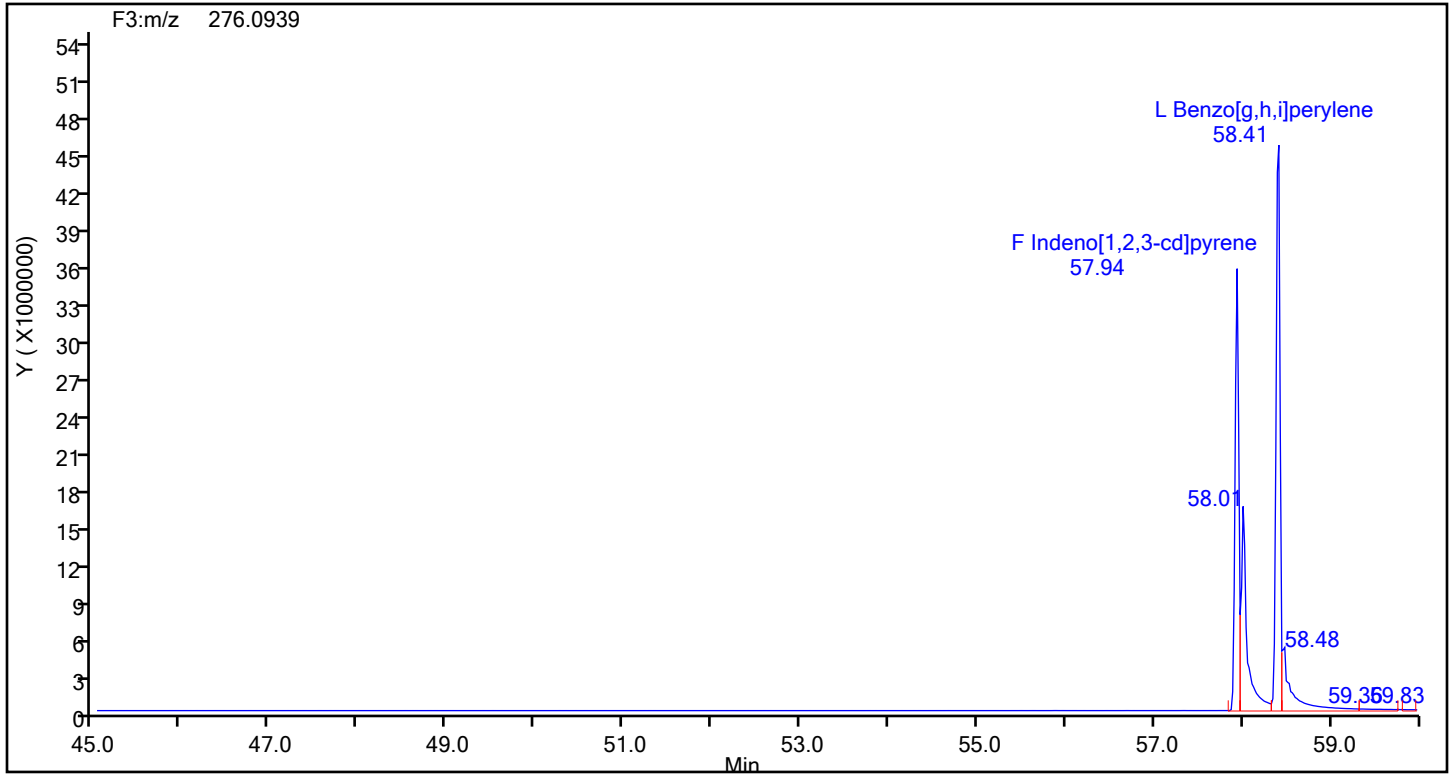
## Perylene Standards



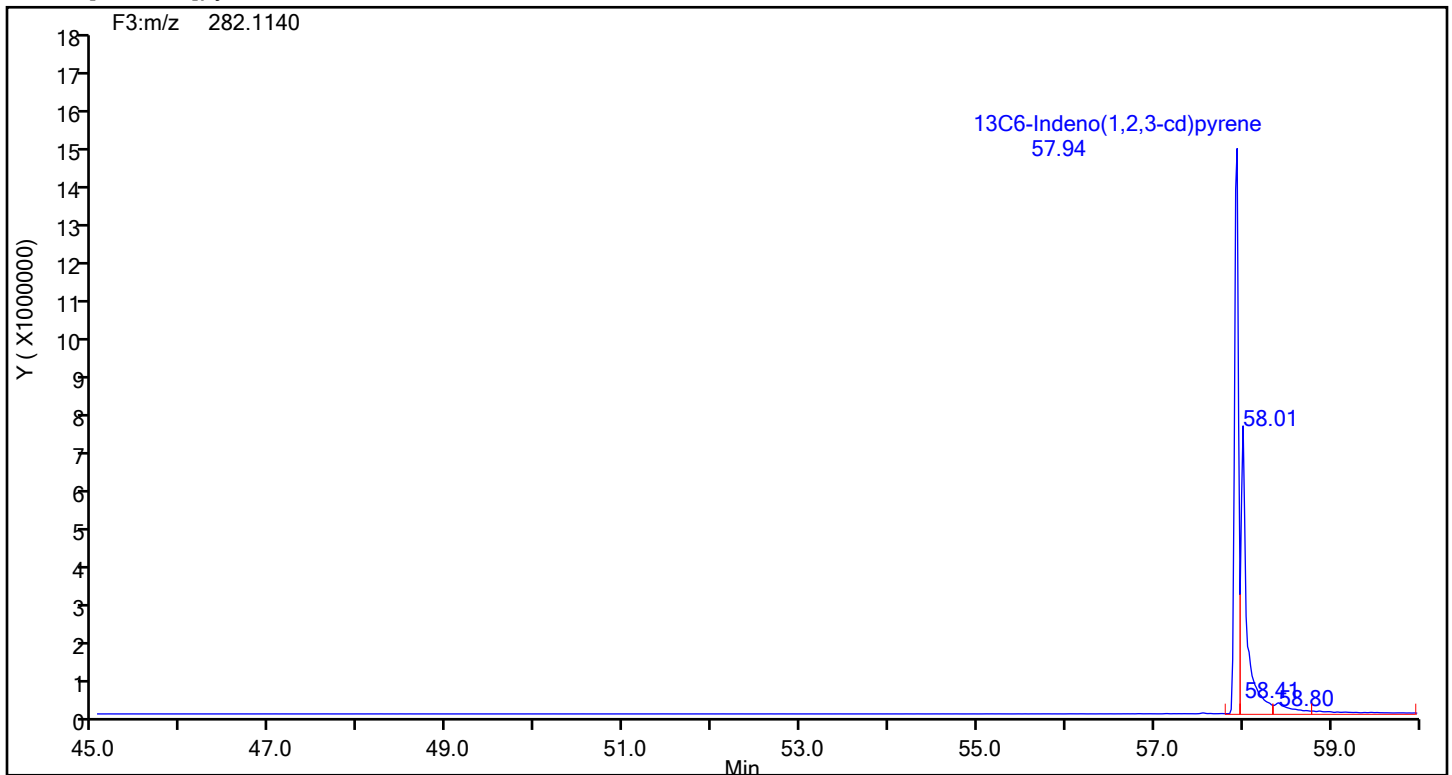
## Eurofins Knoxville

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Injection Date: 28-Jul-2024 13:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Indeno[1,2,3-cd]pyrene

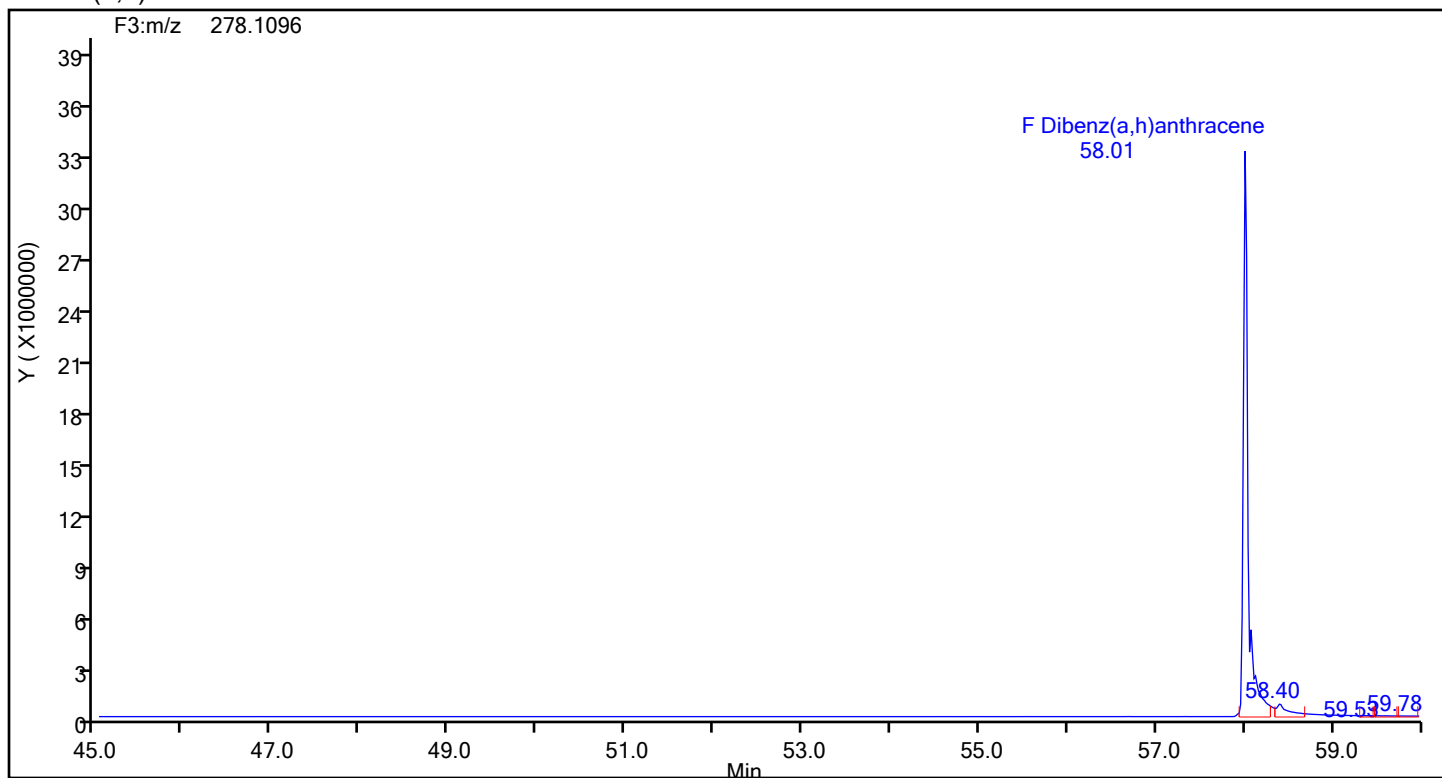


## Indeno[1,2,3-cd]pyrene Standards

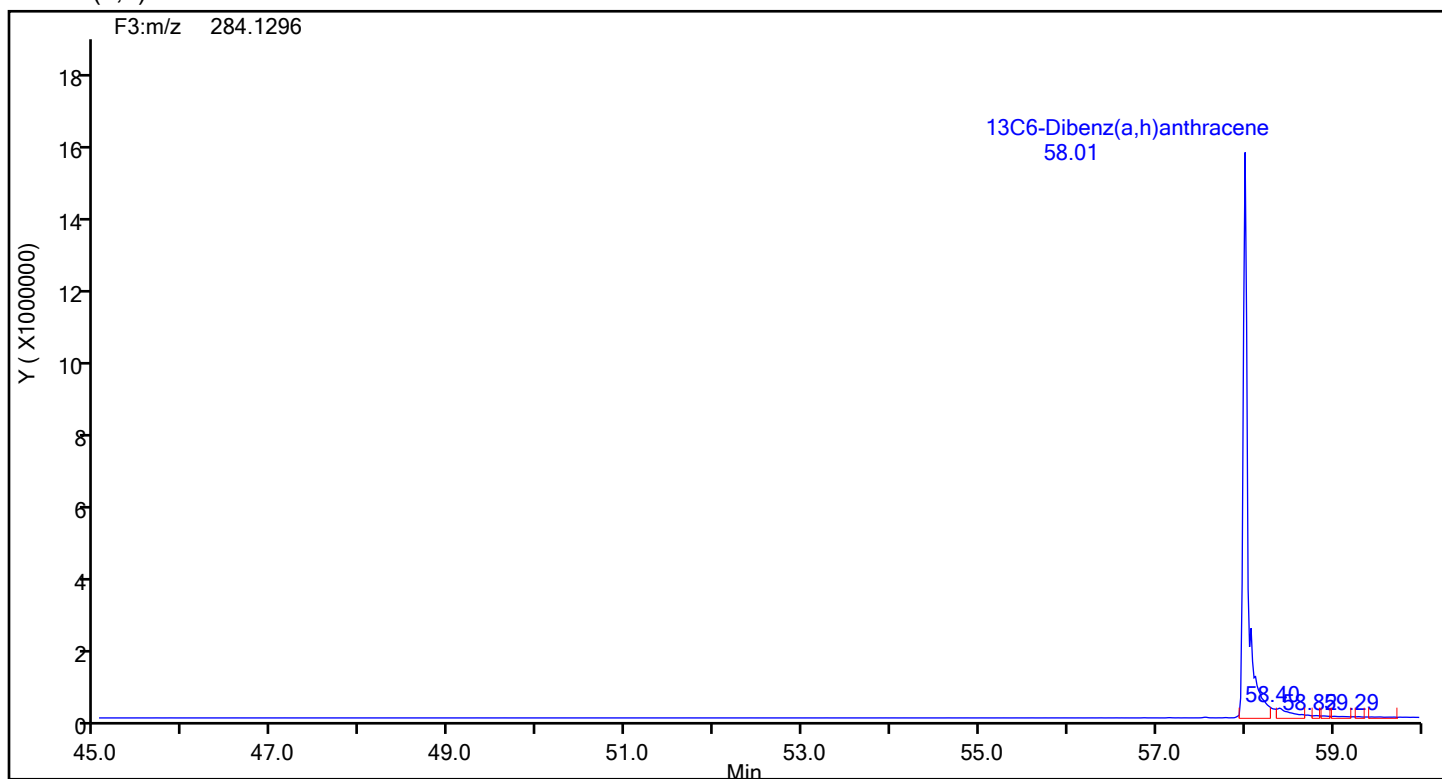


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Injection Date: 28-Jul-2024 13:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Dibenz(a,h)anthracene



## Dibenzo(a,h)anthracene Standards

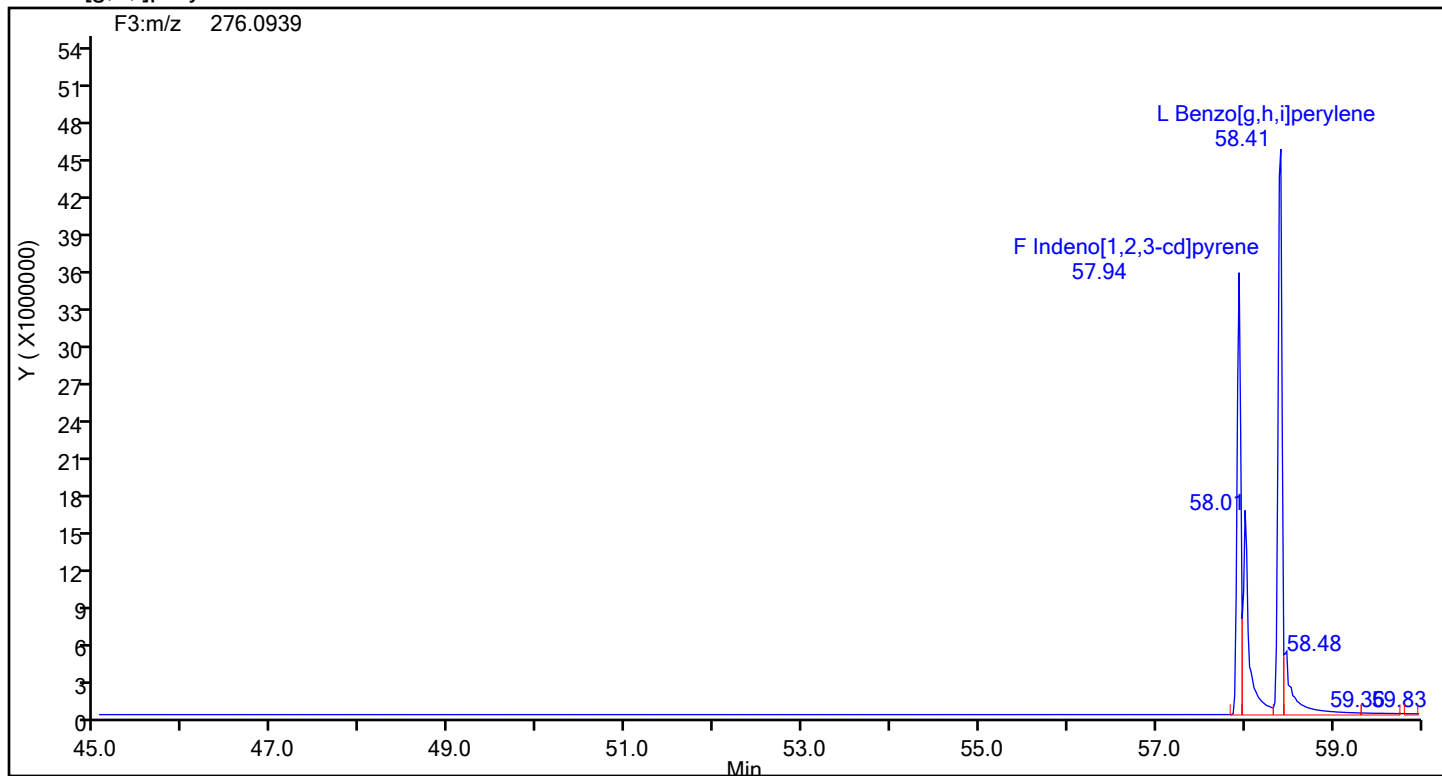




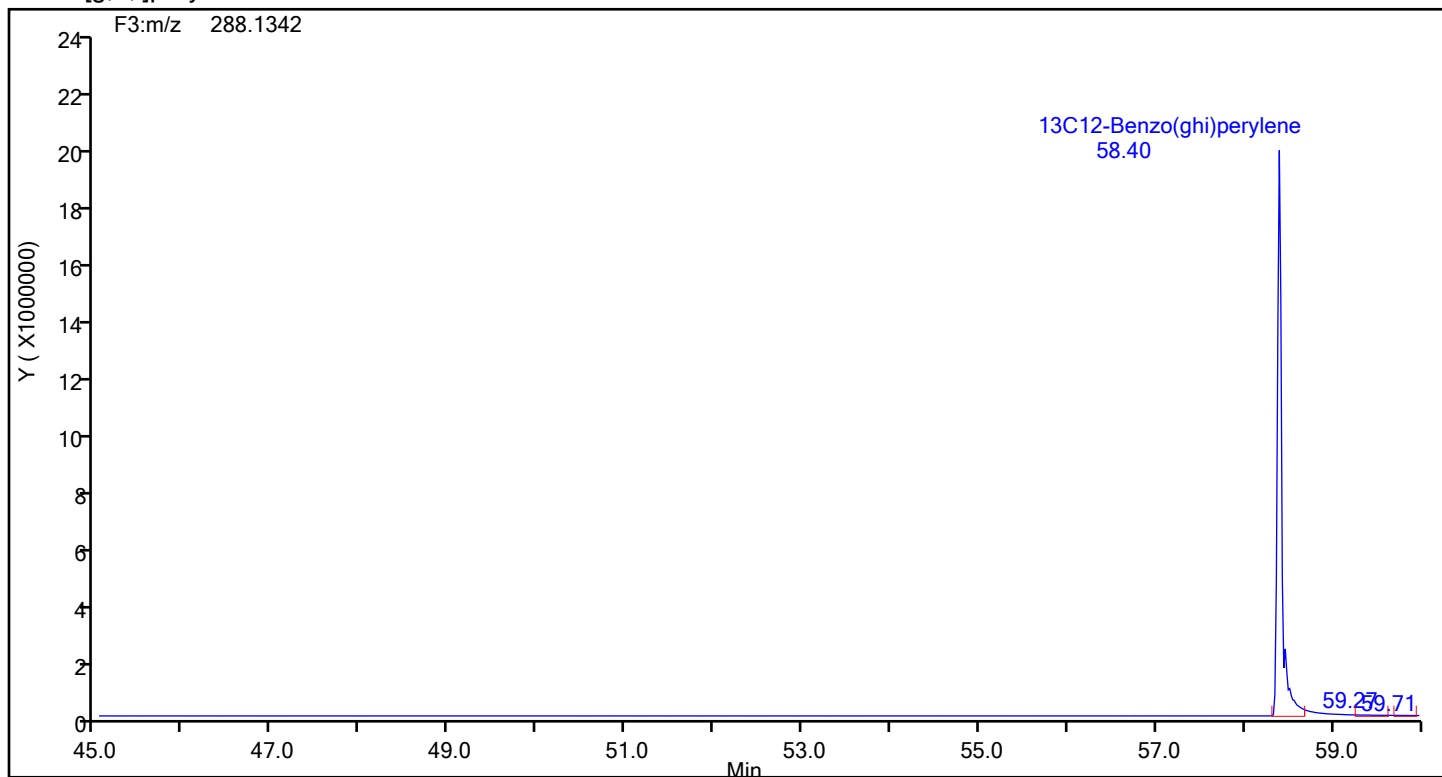
## Eurofins Knoxville

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Injection Date: 28-Jul-2024 13:04:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 89271 Sample Line#: 1  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards



FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-87620/21-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>MB140-8762021-B.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>07/10/2024 15:12</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88561</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	59.30	J	75.0	75.0	0.0851
91-57-6	2-Methylnaphthalene	41.21	J	75.0	75.0	0.0664
208-96-8	Acenaphthylene	0.5923	J	3.00	3.00	0.0441
83-32-9	Acenaphthene	12.46	J	30.0	30.0	0.0651
86-73-7	Fluorene	13.26	J	30.0	30.0	0.0704
85-01-8	Phenanthrene	20.04		6.00	6.00	0.132
120-12-7	Anthracene	ND		30.0	30.0	0.128
206-44-0	Fluoranthene	4.354	J	6.00	6.00	0.0594
129-00-0	Pyrene	4.020	J	6.00	6.00	0.0602
56-55-3	Benzo[a]anthracene	0.1932	J	6.00	6.00	0.0381
218-01-9	Chrysene	1.436	J	6.00	6.00	0.0376
205-99-2	Benzo[b]fluoranthene	0.3617	J	30.0	30.0	0.0173
207-08-9	Benzo[k]fluoranthene	0.2311	J	6.00	6.00	0.0169
192-97-2	Benzo[e]pyrene	0.4635	J	6.00	6.00	0.0156
50-32-8	Benzo[a]pyrene	ND		3.00	3.00	0.0158
198-55-0	Perylene	0.3650	J	3.00	3.00	0.0152
193-39-5	Indeno[1,2,3-cd]pyrene	0.3555	J	3.00	3.00	0.0115
53-70-3	Dibenz(a,h)anthracene	0.1524	J	6.00	6.00	0.00906
191-24-2	Benzo[g,h,i]perylene	0.4522	J	6.00	6.00	0.0103

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-87620/21-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>MB140-8762021-B.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>07/10/2024 15:12</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88561</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	68		20-130
STL03357	13C6-2-Methylnaphthalene	69		20-130
189811-56-1	13C6-Acenaphthylene	104		20-130
189811-57-2	13C6-Acenaphthene	90		20-130
STL00616	13C6-Fluorene	101		20-130
1397194-60-3	13C6-Fluoranthrene	89		20-130
1397214-90-2	13C3-Pyrene	88		20-130
917378-11-1	13C6-Benzo (a) anthracene	105		20-130
1397177-72-8	13C6-Chrysene	102		20-130
STL03358	13C6-Benzo (b) fluoranthene	97		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	88		20-130
STL03382	13C4-Benzo (e) pyrene	84		20-130
STL03359	13C4-Benzo (a) pyrene	83		20-130
1520-96-3	Perylene-d12	81		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	106		20-130
STL03360	13C6-Dibenz (a,h) anthracene	101		20-130
350820-11-0	13C12-Benzo (ghi) perylene	84		20-130
189811-60-7	13C6-Anthracene	96		20-130
1189955-53-0	13C6-Phenanthrene	87		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Lims ID: MB 140-87620/21-B  
Client ID:  
Sample Type: MB  
Inject. Date: 10-Jul-2024 15:12:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033436-008  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 11-Jul-2024 07:22:45 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1658

First Level Reviewer: TT6I

Date: 11-Jul-2024 07:22:45

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:19	27289815		3.3746	67.9	67.9	0.008310	0.008310	67.89	
Naphthalene	11:19	13908905		1.2893	39.5	39.5	0.0567	0.0567		
D 13C6-2-Methylnaphthalene	13:43	13114765		1.6031	68.7	68.7	0.009161	0.009161	68.68	
2-Methylnaphthalene	13:43	4606632		1.2786	27.5	27.5	0.0443	0.0443		M
D 13C6-Acenaphthylene	16:34	20455596		1.6520	103.9	103.9	0.0131	0.0131	104	
Acenaphthylene	16:34	98076		2.3661	0.3949	0.3949	0.0294	0.0294		M
* Acenaphthene-d10	17:08	5956207		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:15	10497131		0.9792	90.0	90.0	0.0193	0.0193	89.99	
Acenaphthene	17:16	1107222		1.2697	8.308	8.308	0.0434	0.0434		
D 13C6-Fluorene	19:31	10725560		0.8898	101.2	101.2	0.0180	0.0180	101	
Fluorene	19:31	1188277		1.2532	8.841	8.841	0.0469	0.0469		M
D 13C6-Phenanthrene	24:51	15430924		0.5724	86.9	86.9	0.0147	0.0147	86.87	
Phenanthrene	24:51	2277315		1.1044	13.4	13.4	0.0879	0.0879		
\$ Anthracin-d10	25:03	1511		0.4257	0.0114	0.0114	0.006166	0.006166		
D 13C6-Anthracene	25:11	13543198		0.4523	96.5	96.5	0.0186	0.0186	96.48	
Anthracene	25:11						0.0856	0.0856		
D 13C6-Fluoranthrene	33:33	33265962		1.1994	89.4	89.4	0.0258	0.0258	89.38	
Fluoranthrene	33:33	1111677		1.1513	2.903	2.903	0.0396	0.0396		
* Pyrene-d10	35:06	15516445		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:14	36791505		1.3512	87.7	87.7	0.0183	0.0183	87.74	
Pyrene	35:14	1050218		1.0652	2.680	2.680	0.0401	0.0401		M
\$ 13C6-Benzo(c)fluorene	38:55						0.0161	0.0161		
D 13C6-Benzo(a)anthracene	45:44	37103916		1.5189	104.7	104.7	0.0121	0.0121	105	
Benzo[a]anthracene	45:44	46544		0.9739	0.1288	0.1288	0.0254	0.0254		
D 13C6-Chrysene	46:01	38821280		1.6287	102.1	102.1	0.0113	0.0113	102	
Chrysene	46:01	364703		0.9815	0.9572	0.9572	0.0251	0.0251		
D 13C6-Benzo(b)fluoranthene	54:25	33156950		1.4621	97.2	97.2	0.003495	0.003495	97.16	
Benzo[b]fluoranthene	54:25	89949		1.1249	0.2412	0.2412	0.0116	0.0116		M
\$ 13C12-Benzo(j)fluoranthene	54:27	5687		1.3558	0.0180	0.0180	0.006049	0.006049		
Benzo[k]fluoranthene	54:33	62223		1.1271	0.1540	0.1540	0.0113	0.0113		Ma
D 13C6-Benzo(k)fluoranthene	54:33	35838948		1.7507	87.7	87.7	0.002919	0.002919	87.71	
* Benzo(e)pyrene-d12	55:20	11670581		5.7E+04	50.0	50.0				
Benzo[e]pyrene	55:25	99688		1.0013	0.3090	0.3090	0.0104	0.0104		M
D 13C4-Benzo(e)pyrene	55:25	32224062		1.6368	84.3	84.3	0.005401	0.005401	84.34	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C4-Benzo(a)pyrene	55:33	30212816		1.5508	83.5	83.5	0.005701	0.005701	83.47	
Benzo[a]pyrene	55:33						0.0105	0.0105		
D Perylene-d12	55:44	22437014		1.1917	80.7	80.7	0.006272	0.006272	80.66	
Perylene	55:48	78104		1.4307	0.2433	0.2433	0.0101	0.0101		
D 13C6-Indeno(1,2,3-cd)pyrene	57:53	25190232		1.0218	105.6	105.6	0.0103	0.0103	106	
Indeno[1,2,3-cd]pyrene	57:54	67156		1.1249	0.2370	0.2370	0.007657	0.007657		M
D 13C6-Dibenz(a,h)anthracene	57:58	24891217		1.0553	101.1	101.1	0.006743	0.006743	101	
Dibenz(a,h)anthracene	57:58	28617		1.1314	0.1016	0.1016	0.006038	0.006038		M
D 13C12-Benzo(ghi)perylene	58:21	24853200		1.2749	83.5	83.5	0.001453	0.001453	83.52	
Benzo[g,h,i]perylene	58:21	96177		1.2838	0.3014	0.3014	0.006840	0.006840		M

## QC Flag Legend

## Processing Flags

## Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Lims ID: MB 140-87620/21-B  
Client ID:  
Sample Type: MB  
Inject. Date: 10-Jul-2024 15:12:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033436-008  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 11-Jul-2024 07:22:45 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1658

First Level Reviewer: TT61

Date: 11-Jul-2024 07:22:45

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:19	11:20	-2	0.661	27289815	9454320	456	1140	20733		
Naphthalene											
128.0626	11:19	11:18	-2	1.000	13908905	4803219	2766	6915	1737		
13C6-2-Methylnaphthalene											
148.0984	13:43	13:43	-1	0.801	13114765	6454722	239	597	27007		
2-Methylnaphthalene											
142.0783	13:43	13:43	-1	1.000	4606632	2187327	1461	3652	1497		M
13C6-Acenaphthylene											
158.0828	16:34	16:33	0	0.967	20455596	7326821	352	880	20815		E
Acenaphthylene											
152.0626	16:34	16:34	-1	1.000	98076	33794	1007	2517	34		M
Acenaphthene-d10											
164.1404	17:08	17:08	0		5956207	2032668	103	257	19735		
13C6-Acenaphthene											
160.0984	17:15	17:14	0	1.007	10497131	3616561	308	770	11742		
Acenaphthene											
154.0783	17:16	17:14	0	1.001	1107222	363327	797	1992	456		
13C6-Fluorene											
172.0984	19:31	19:29	0	1.139	10725560	3099700	260	650	11922		E
Fluorene											
166.0783	19:31	19:31	-1	1.000	1188277	338261	729	1822	464		M
13C6-Phenanthrene											
184.0984	24:51	24:49	0	0.708	15430924	3439241	193	482	17820		
Phenanthrene											
178.0783	24:51	24:49	0	1.000	2277315	514598	1335	3337	385		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Anthracin-d10											
188.1410	25:03	25:04	-1	0.714	1511	815	60	150	14		
13C6-Anthracene											
184.0984	25:11	25:08	1	0.717	13543198	2869436	193	482	14868		
Anthracene											
178.0783	25:11						1335	3337			
13C6-Fluoranthrene											
208.0984	33:33	33:30	1	0.956	33265962	6418316	707	1767	9078		
Fluoranthene											
202.0783	33:33	33:31	0	1.000	1111677	208033	1171	2927	178		
Pyrene-d10											
212.1404	35:06	35:05	1		15516445	2857162	179	447	15962		
13C3-Pyrene											
205.0883	35:14	35:10	1	1.004	36791505	6852270	565	1412	12128		
Pyrene											M
202.0783	35:14	35:14	1	1.000	1050218	207379	1171	2927	177		M
13C6-Benzo(c)fluorene											
222.1134	38:56						189	472			
13C6-Benzo(a)anthracene											
234.1140	45:44	45:40	0	1.303	37103916	6461016	576	1440	11217		E
Benzo[a]anthracene											
228.0939	45:44	45:42	0	1.000	46544	7000	639	1597	11		
13C6-Chrysene											
234.1140	46:01	45:57	1	1.311	38821280	6492177	576	1440	11271		E
Chrysene											
228.0939	46:01	45:58	1	1.000	364703	55493	639	1597	87		
13C6-Benzo(b)fluoranthene											
258.1140	54:25	54:24	1	0.984	33156950	8887761	160	400	55549		
Benzo[b]fluoranthene											M
252.0939	54:25	54:25	1	1.000	89949	19785	462	1155	43		M
13C12-Benzo(j)fluoranthene											
264.1336	54:27	54:26	1	0.984	5687	1372	257	642	5		
Benzo[k]fluoranthene											Ma
252.0939	54:33	54:33	1	1.000	62223	14815	462	1155	32		M
13C6-Benzo(k)fluoranthene											
258.1140	54:33	54:32	1	0.986	35838948	9084881	160	400	56781		
Benzo(e)pyrene-d12											
264.1692	55:20	55:19	1		11670581	3913743	234	585	16725		
Benzo[e]pyrene											M
252.0939	55:25	55:25	1	1.000	99688	33390	462	1155	72		M
13C4-Benzo(e)pyrene											
256.1073	55:25	55:24	1	1.002	32224062	11091240	277	692	40041		
13C4-Benzo(a)pyrene											
256.1073	55:33	55:33	0	1.004	30212816	9837532	277	692	35515		

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Benzo[a]pyrene	252.0939	55:33					462	1155			
Perylene-d12	264.1692	55:44	55:43	1	1.007	22437014	7986625	234	585	34131	
Perylene	252.0939	55:48	55:47	1	1.001	78104	14105	462	1155	31	
13C6-Indeno(1,2,3-cd)pyrene	282.1140	57:53	57:51	1	1.046	25190232	8474533	329	822	25758	E
Indeno[1,2,3-cd]pyrene	276.0939	57:54	57:54	1	1.000	67156	22558	292	730	77	M
13C6-Dibenz(a,h)anthracene	284.1296	57:58	57:56	1	1.048	24891217	7977516	223	557	35774	E
Dibenz(a,h)anthracene	278.1096	57:58	57:58	1	1.000	28617	11090	218	545	51	M
13C12-Benzo(ghi)perylene	288.1342	58:21	58:20	1	1.055	24853200	8313233	58	145	143332	
Benzo[g,h,i]perylene	276.0939	58:21	58:21	1	1.000	96177	34967	292	730	120	M

## QC Flag Legend

## Processing Flags

## Review Flags

M - Manually Integrated

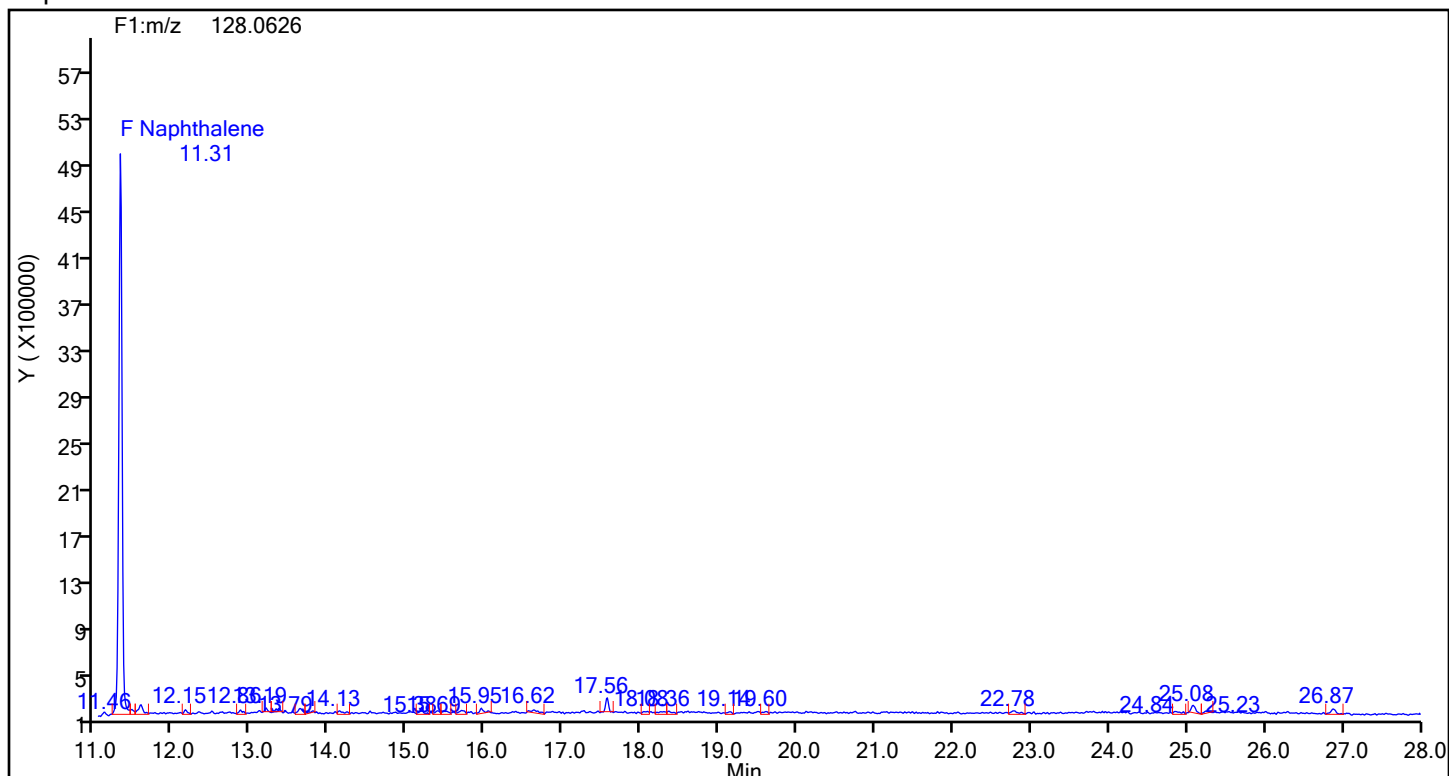
a - User Assigned ID



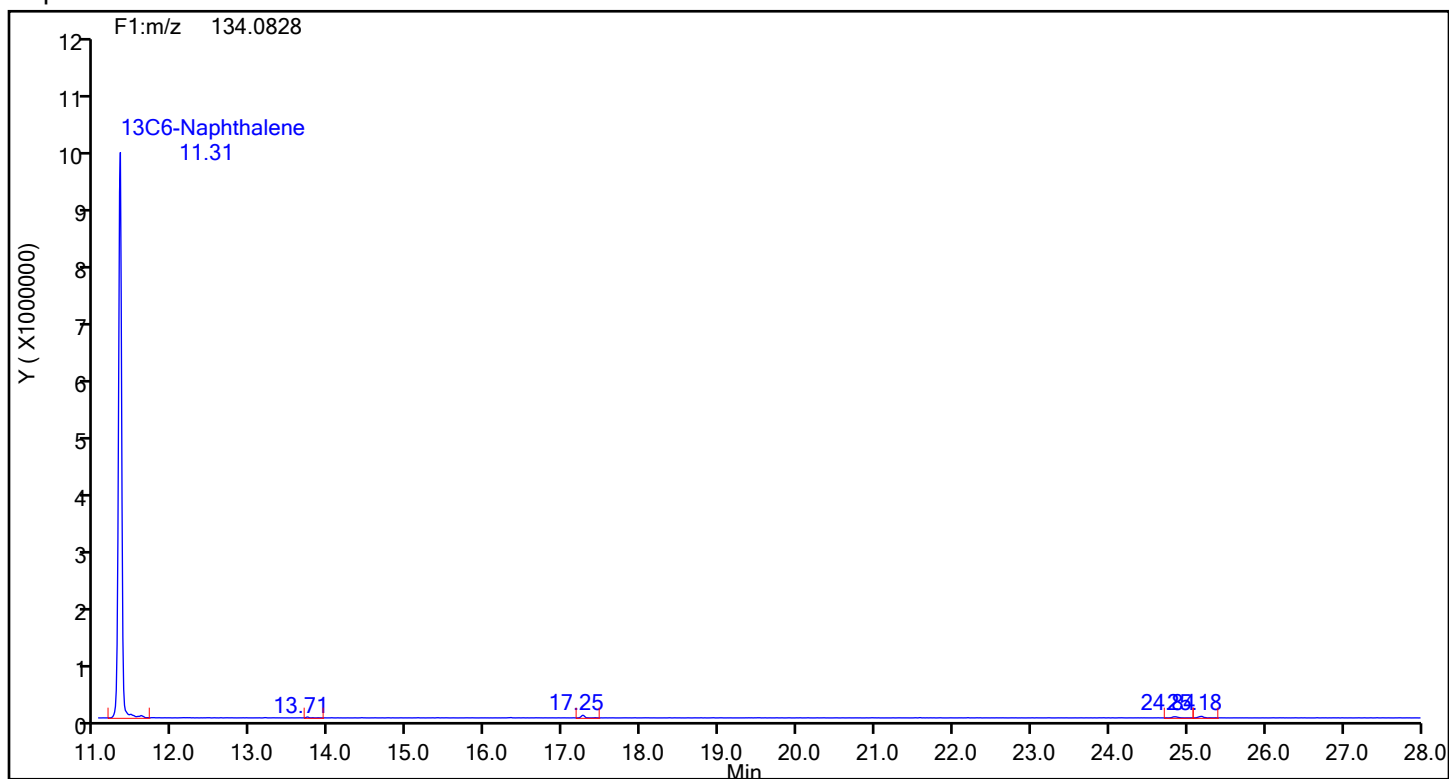
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Injection Date: 10-Jul-2024 15:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

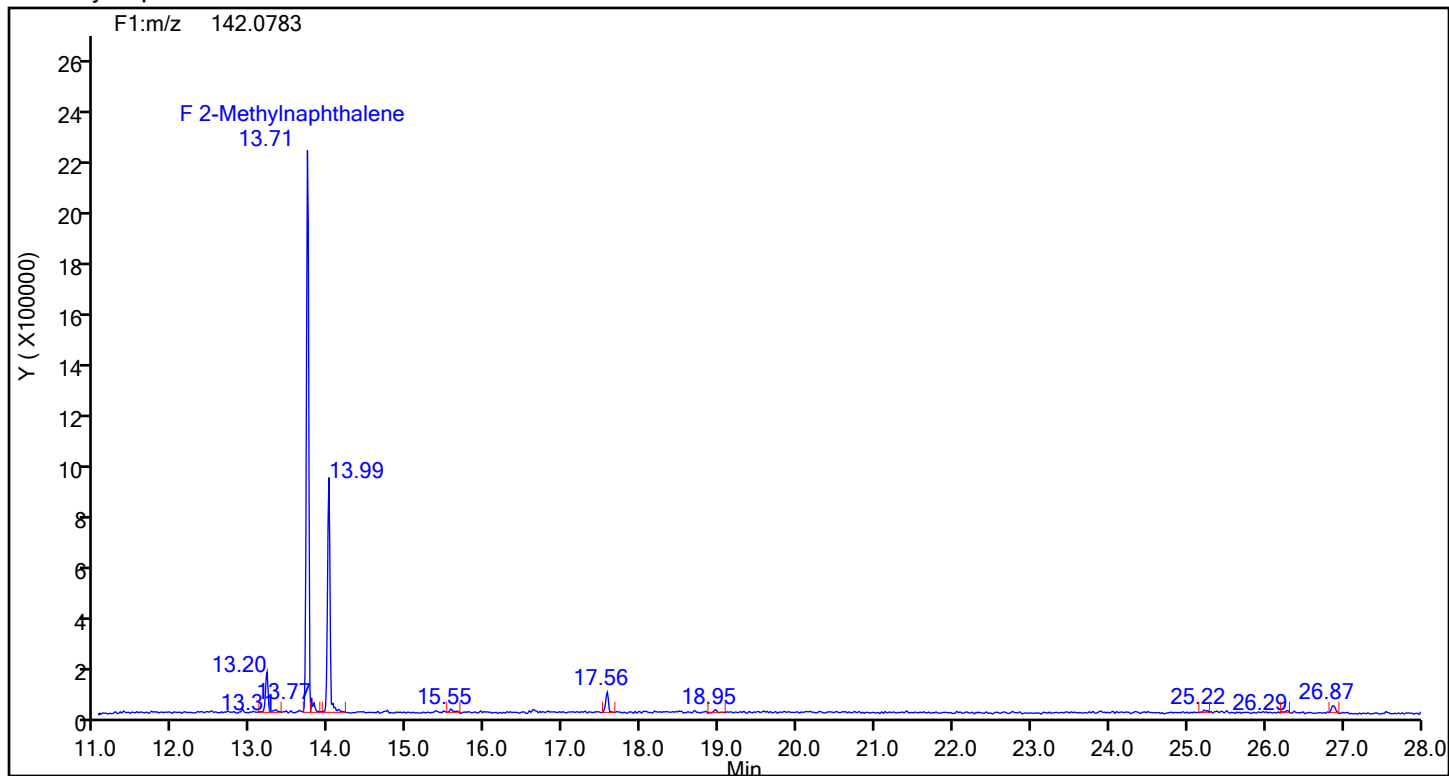
Worklist#: 88561

Sample Line#: 8

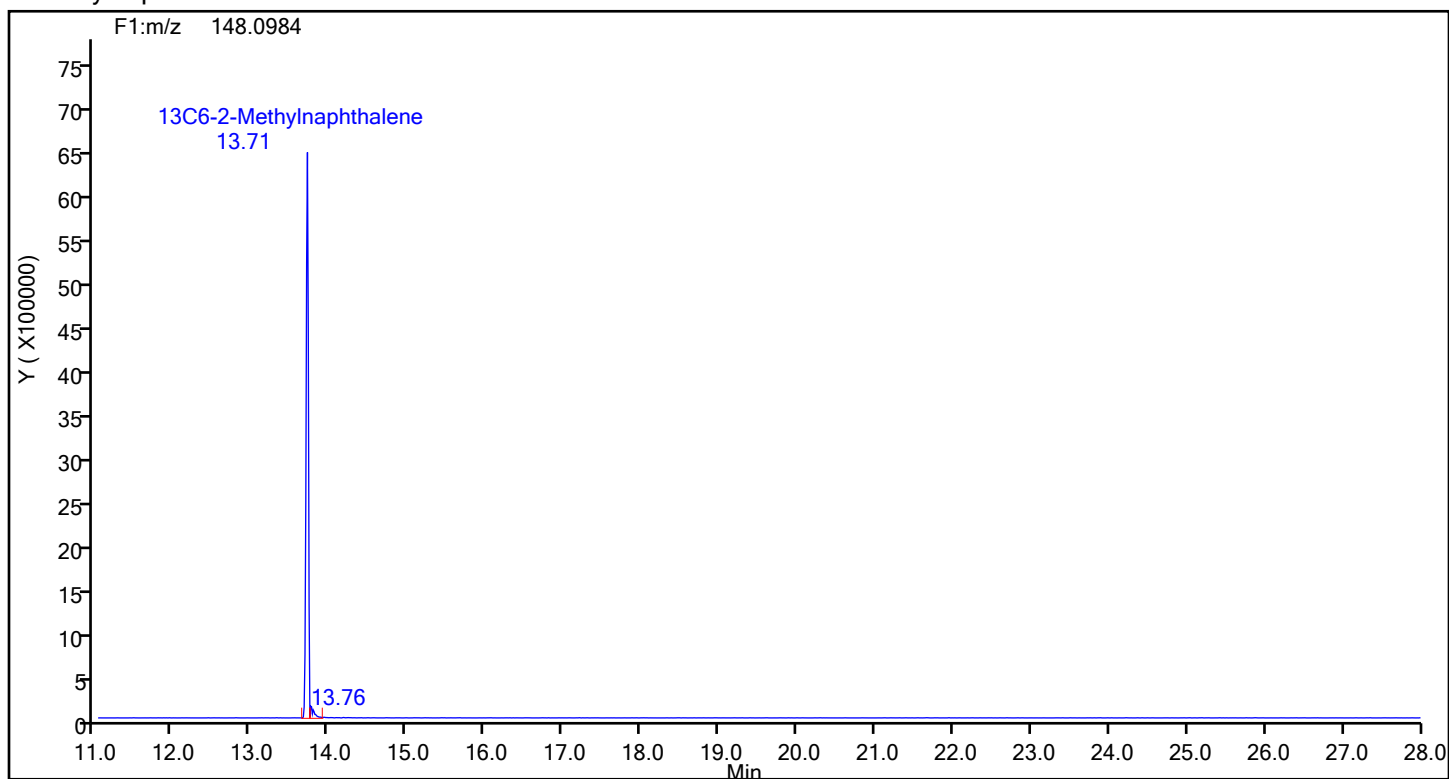
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## 2-Methylnaphthalene



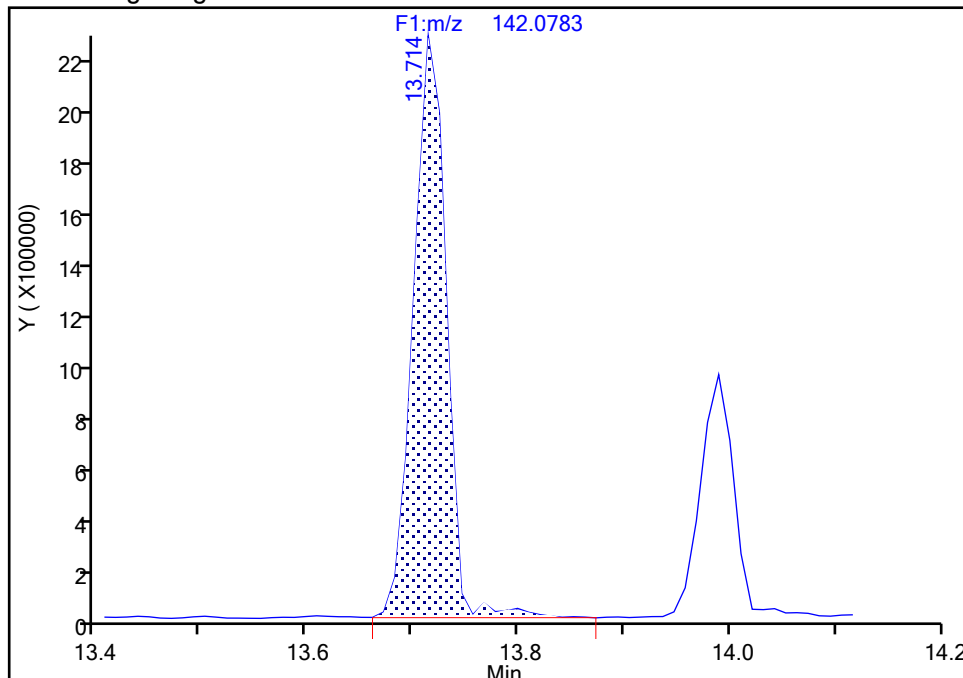
## 2-Methylnaphthalene Standards



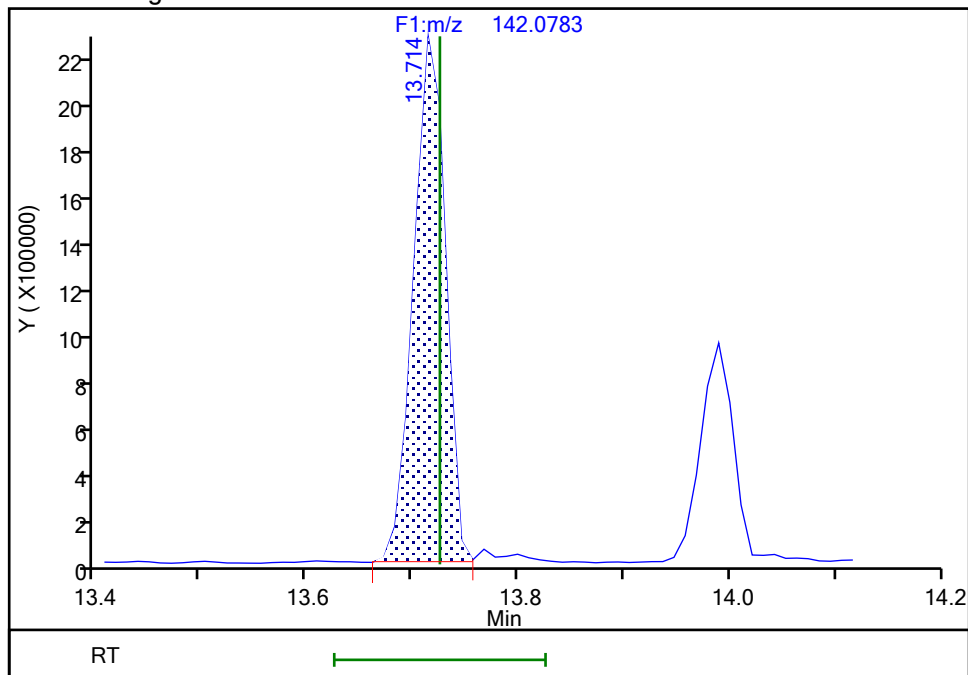
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Injection Date:	10-Jul-2024 15:12:00	Instrument ID:	D3PAH
Lims ID:	MB 140-87620/21-B		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Worklist S
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Column:	Restek-5Sil MS 25um ( 0.25 mm)	Detector	F1(6.03 :27.99 )

Signal: 1

## Processing Integration Results



## Manual Integration Results



### Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

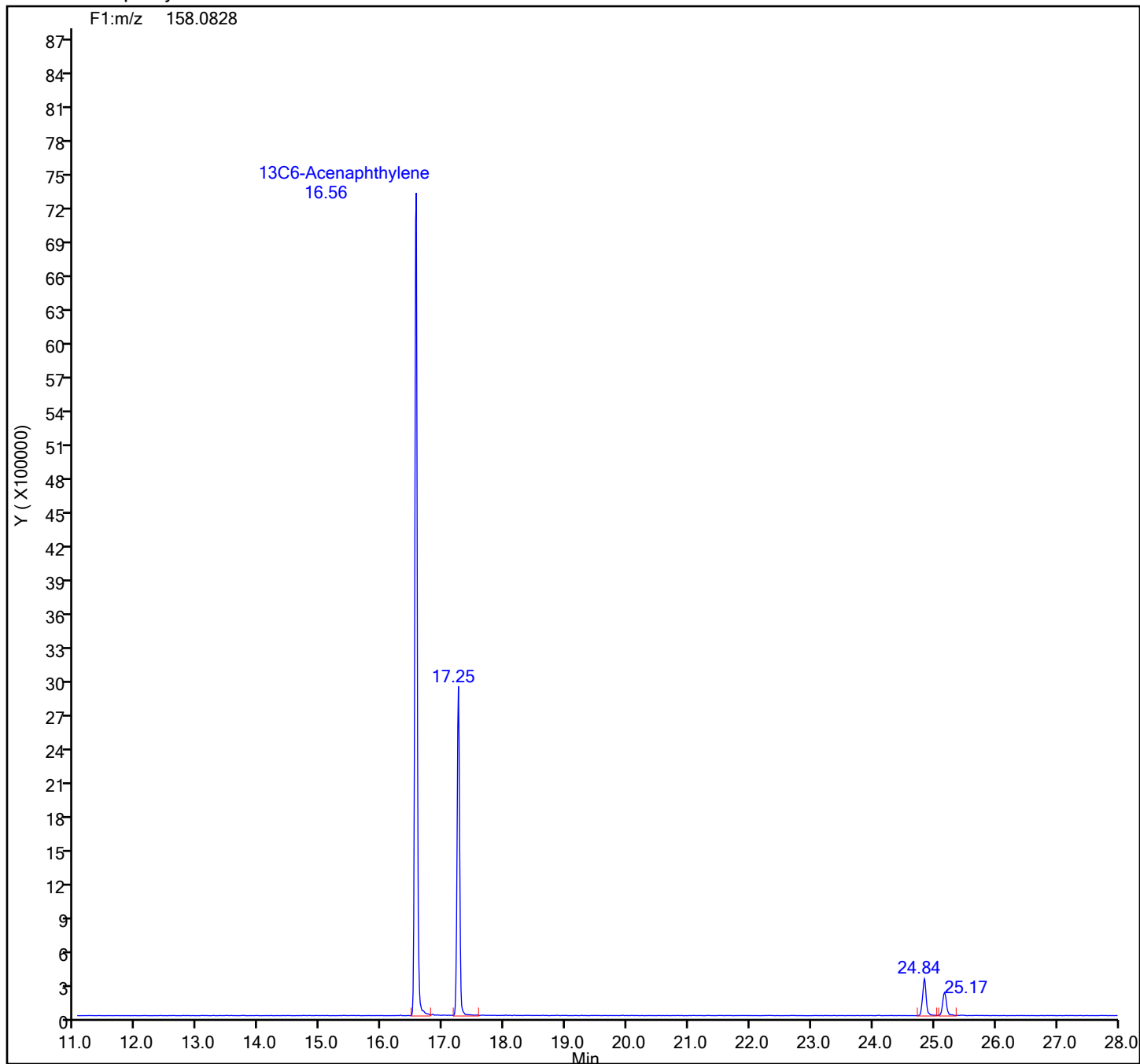
Worklist#: 88561

Sample Line#: 8

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## 13C6-Acenaphthylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

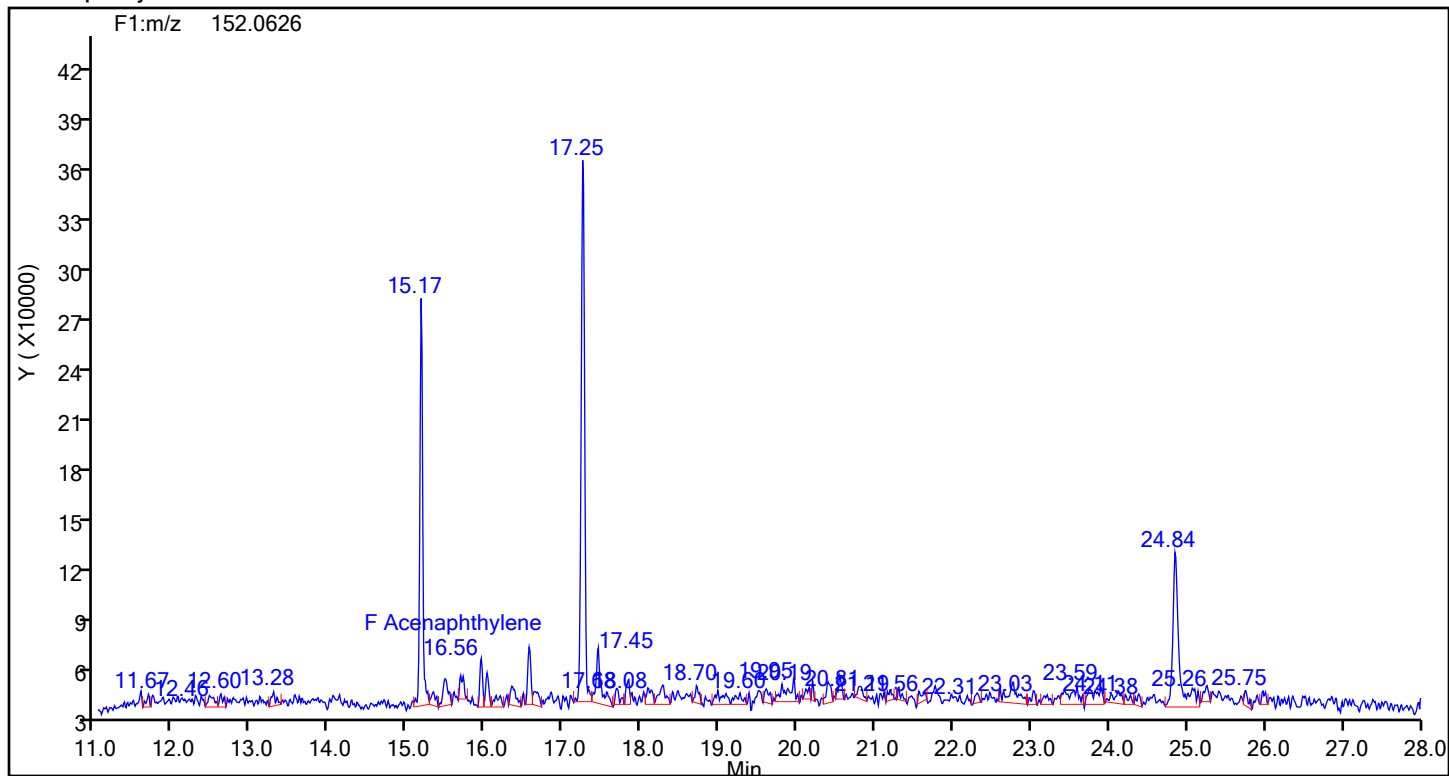
Worklist#: 88561

Sample Line#: 8

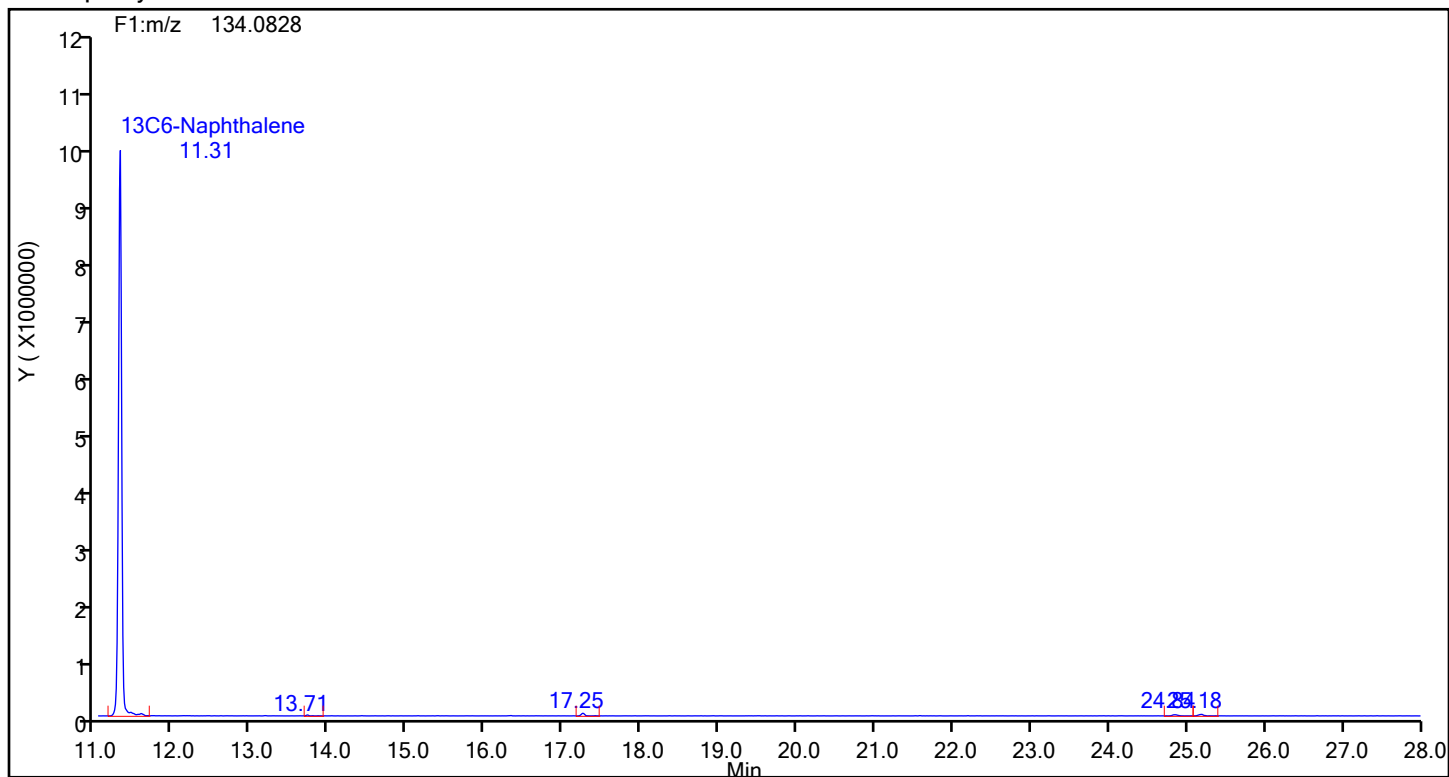
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Acenaphthylene



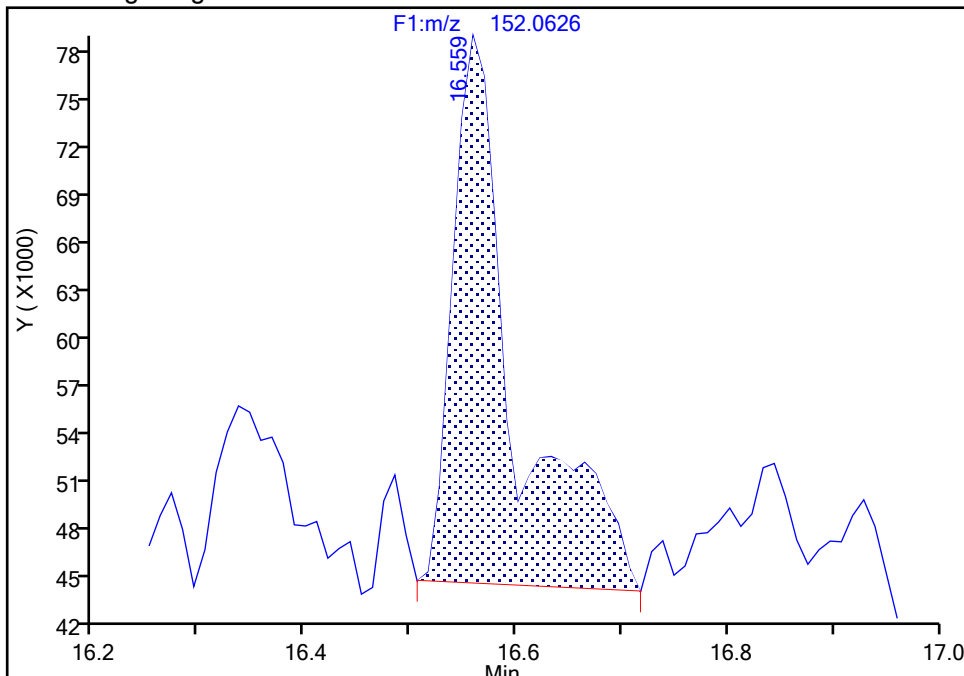
## Acenaphthylene Standards



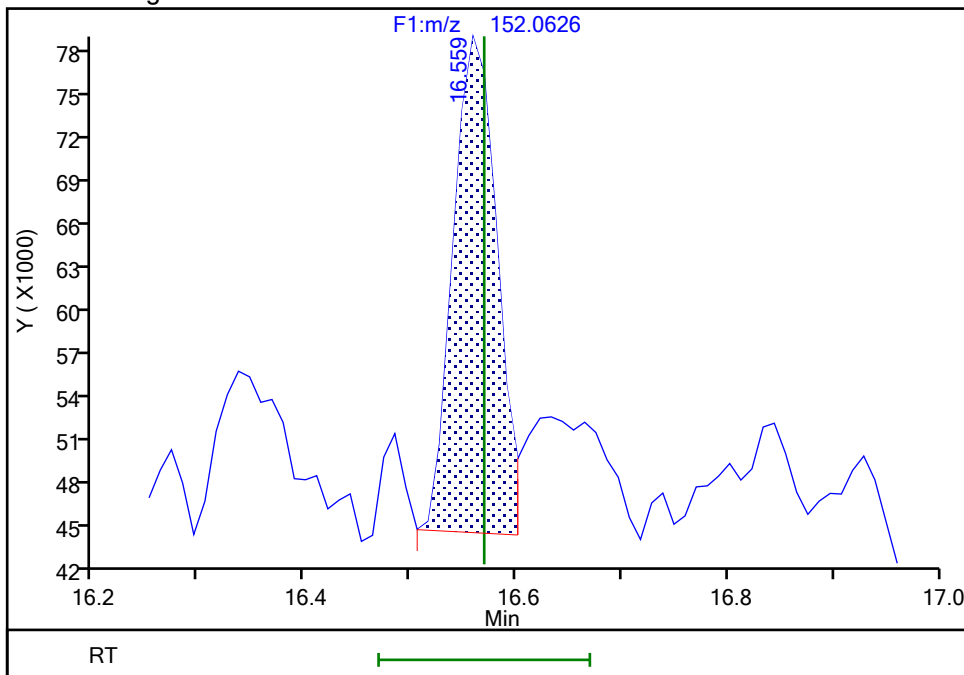
Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d		
Injection Date:	10-Jul-2024 15:12:00	Instrument ID:	D3PAH
Lims ID:	MB 140-87620/21-B		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Worklist S
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Column:	Restek-5Sil MS 25um ( 0.25 mm)	Detector	F1(6.03 :27.99 )

Signal: 1

RT: 16.56  
Area: 138526  
Amount: 0.557727  
Amount Units: pg/ul



RT: 16.56  
Area: 98076  
Amount: 0.394869  
Amount Units: pg/ul



BASFHWC-Form 2014-03116  
9/6/2024  
3:53:39 PM

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

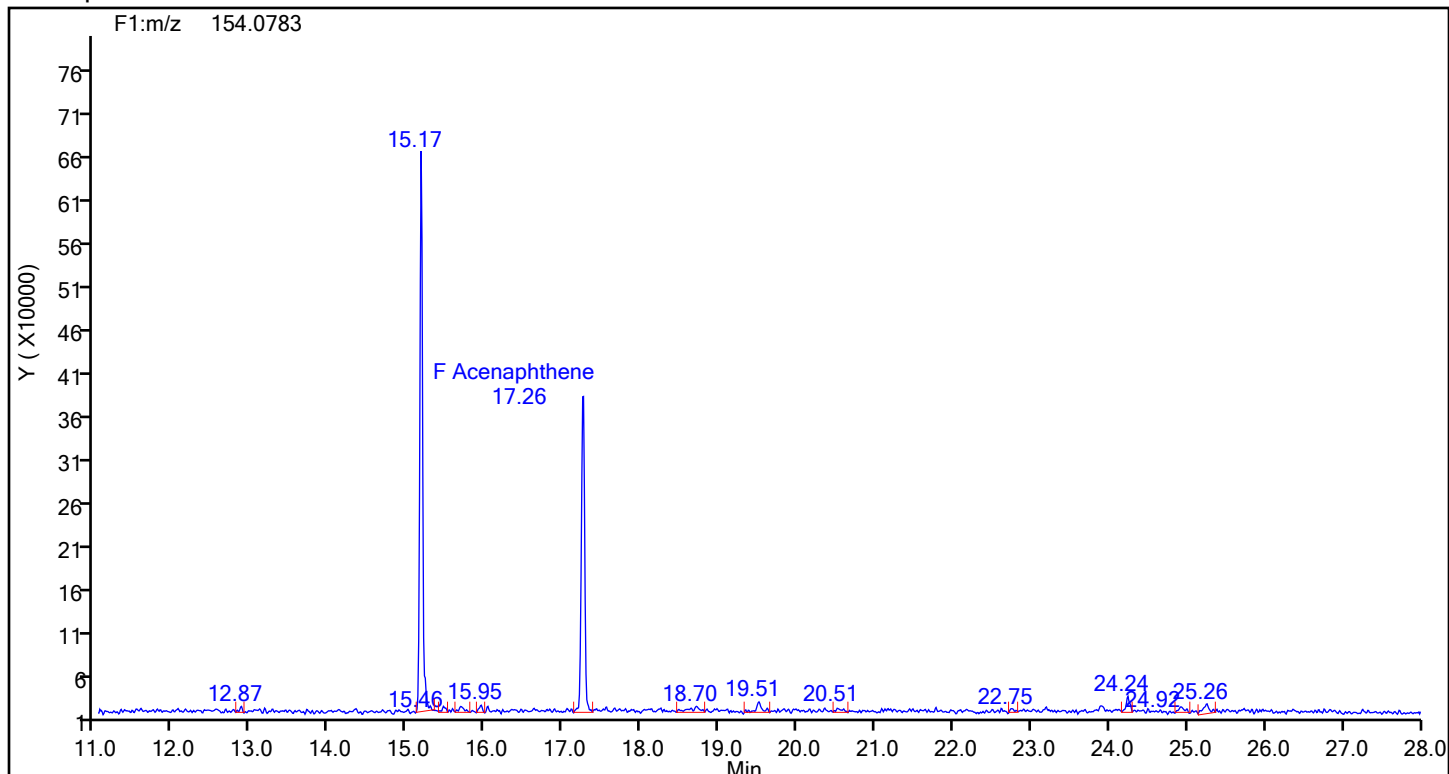
Worklist#: 88561

Sample Line#: 8

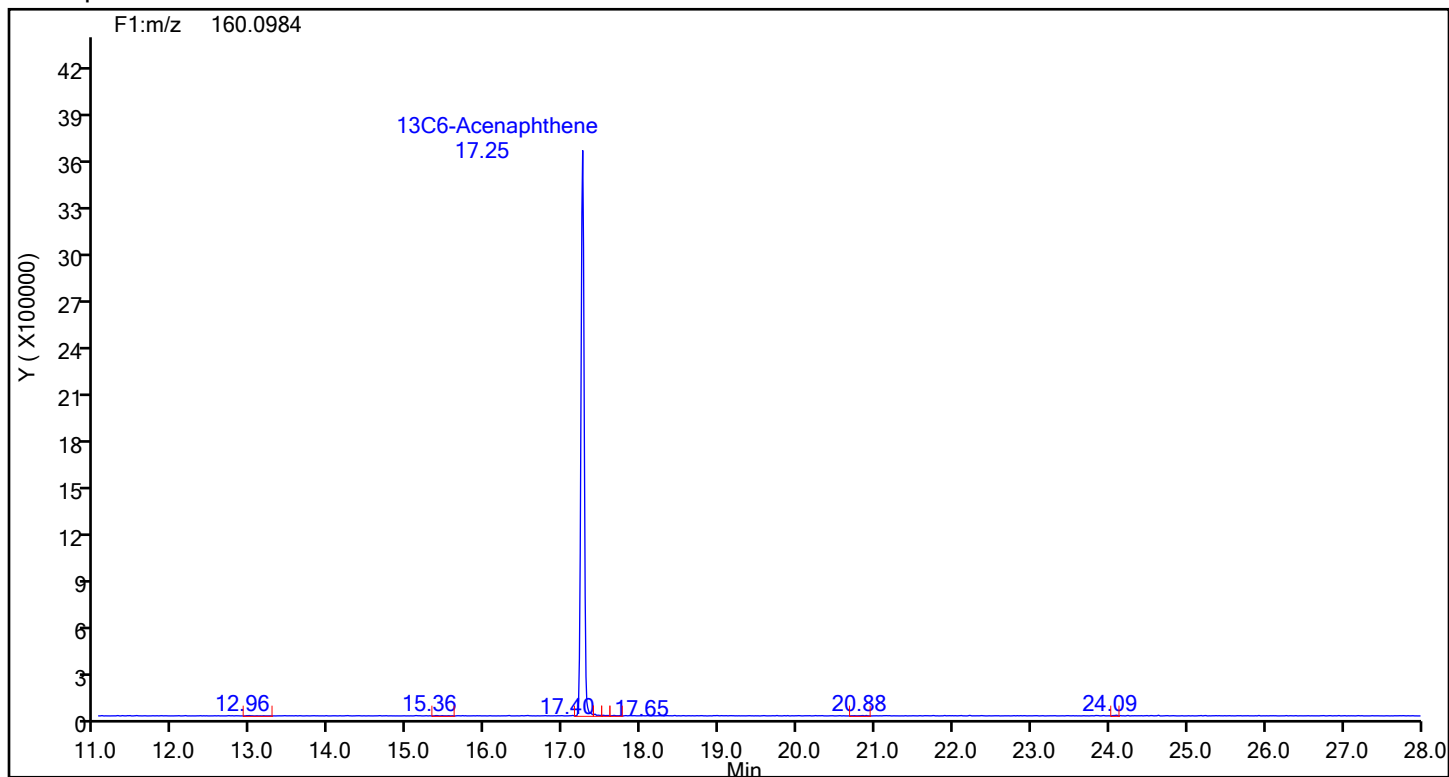
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Acenaphthene



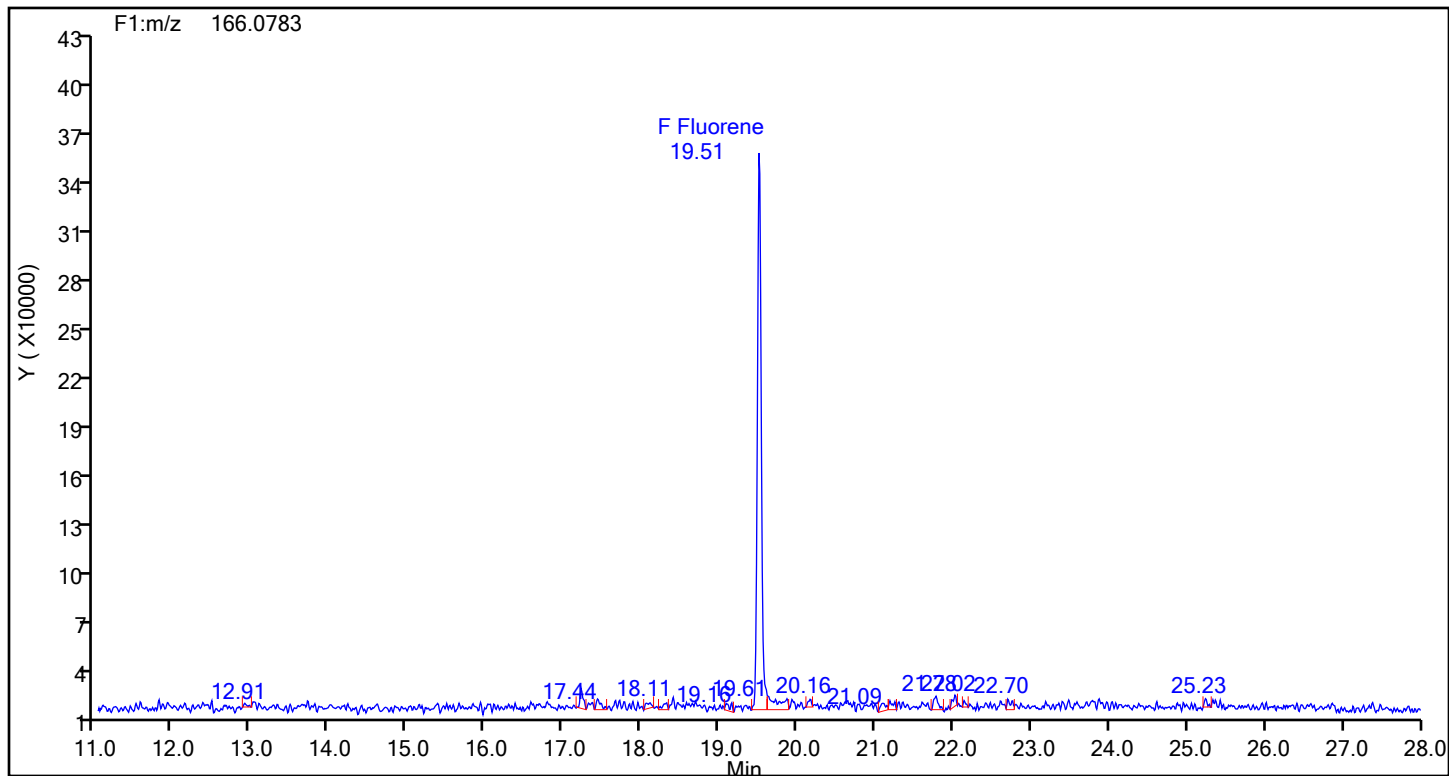
## Acenaphthene Standards



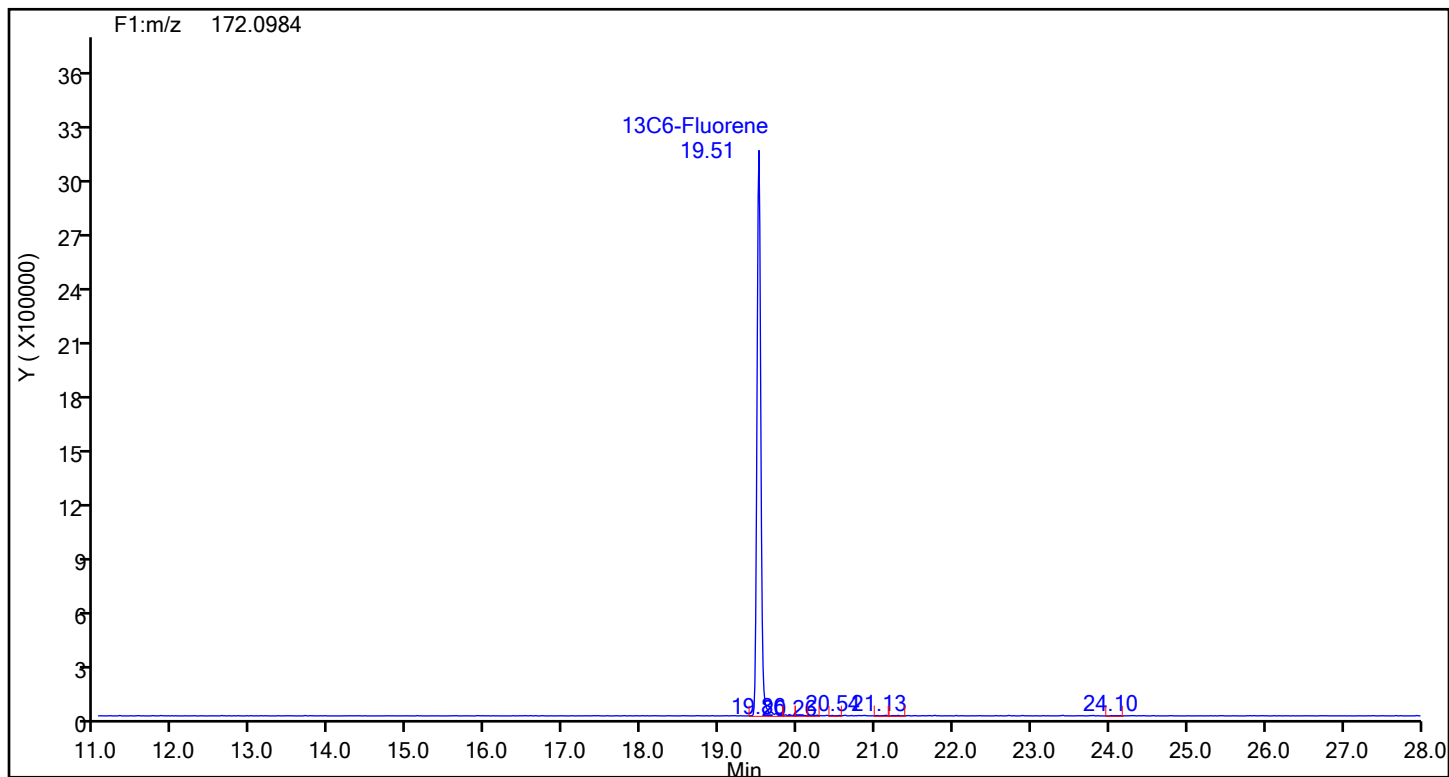
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Injection Date: 10-Jul-2024 15:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene



## Fluorene Standards





## Eurofins Knoxville

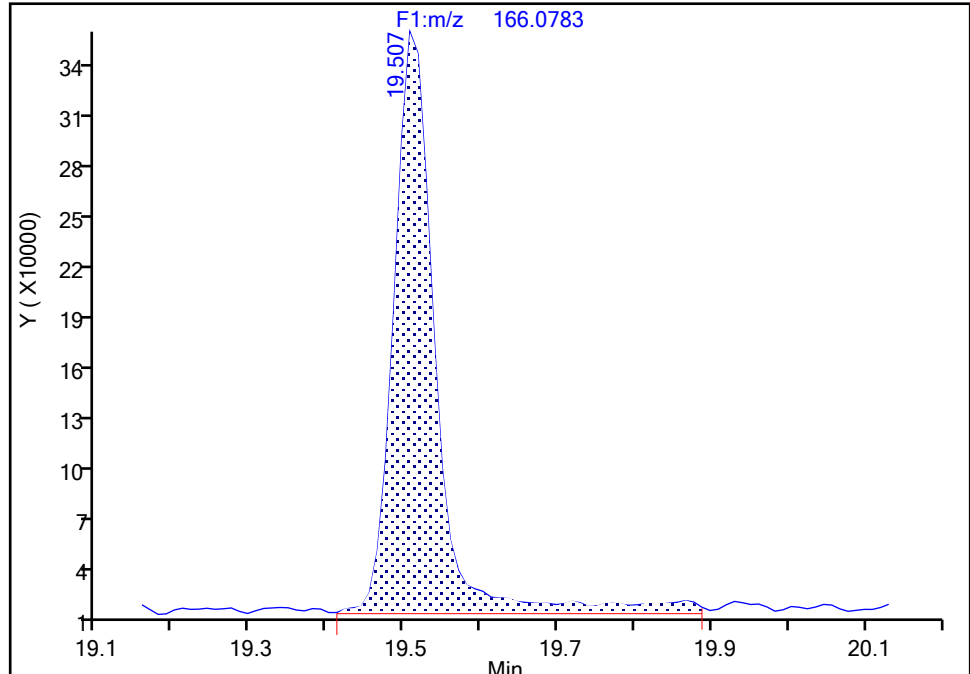
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Injection Date: 10-Jul-2024 15:12:00 Instrument ID: D3PAH  
Lims ID: MB 140-87620/21-B  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F1(6.03 :27.99 )

## Fluorene, CAS: 86-73-7

Signal: 1

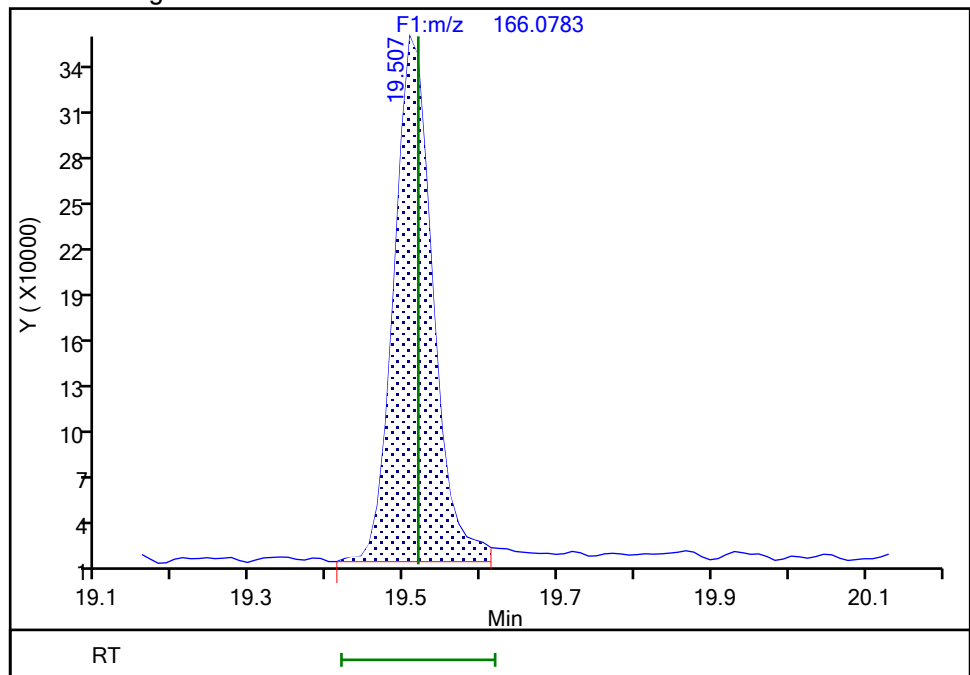
RT: 19.51  
Area: 1276369  
Amount: 9.496228  
Amount Units: pg/ul

## Processing Integration Results



RT: 19.51  
Area: 1188277  
Amount: 8.840821  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 11-Jul-2024 07:22:21 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

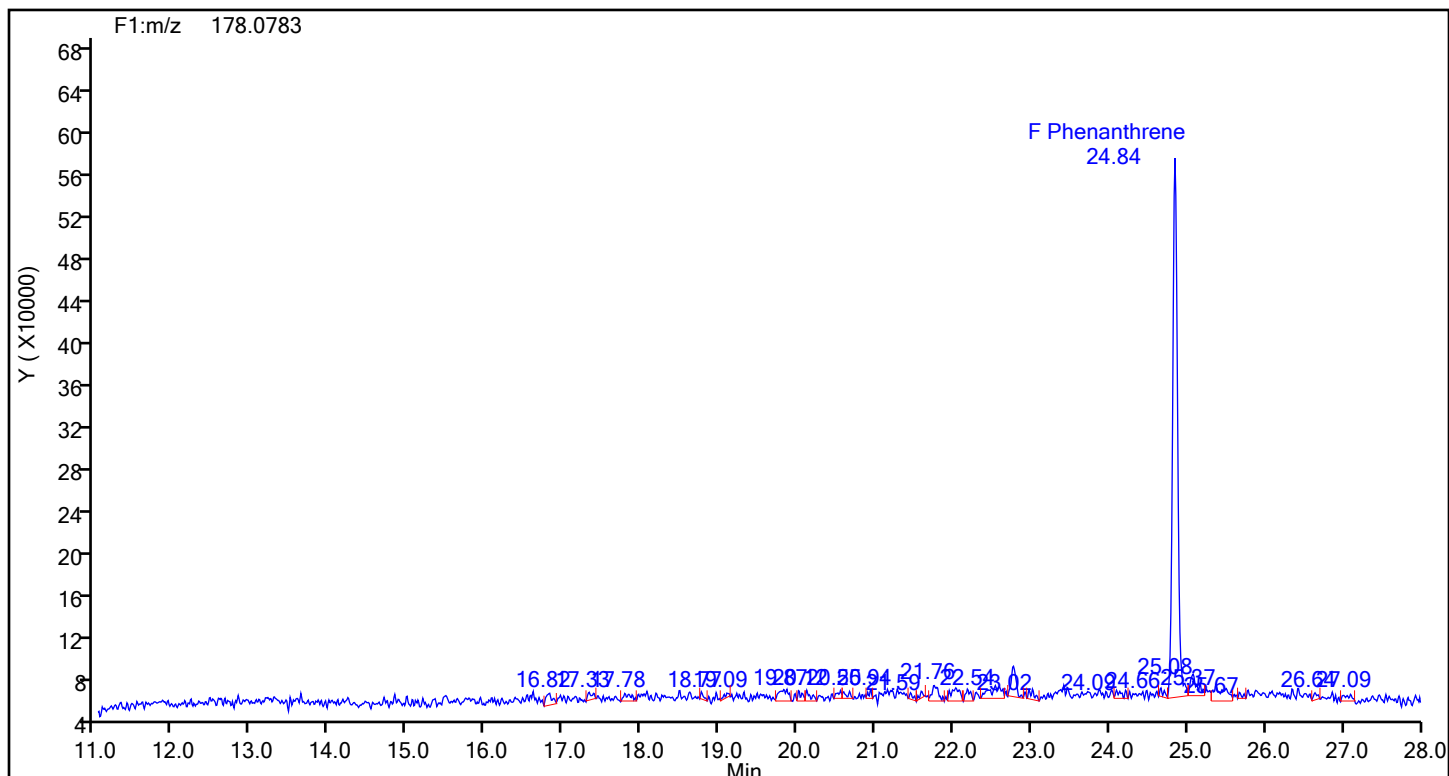
Worklist#: 88561

Sample Line#: 8

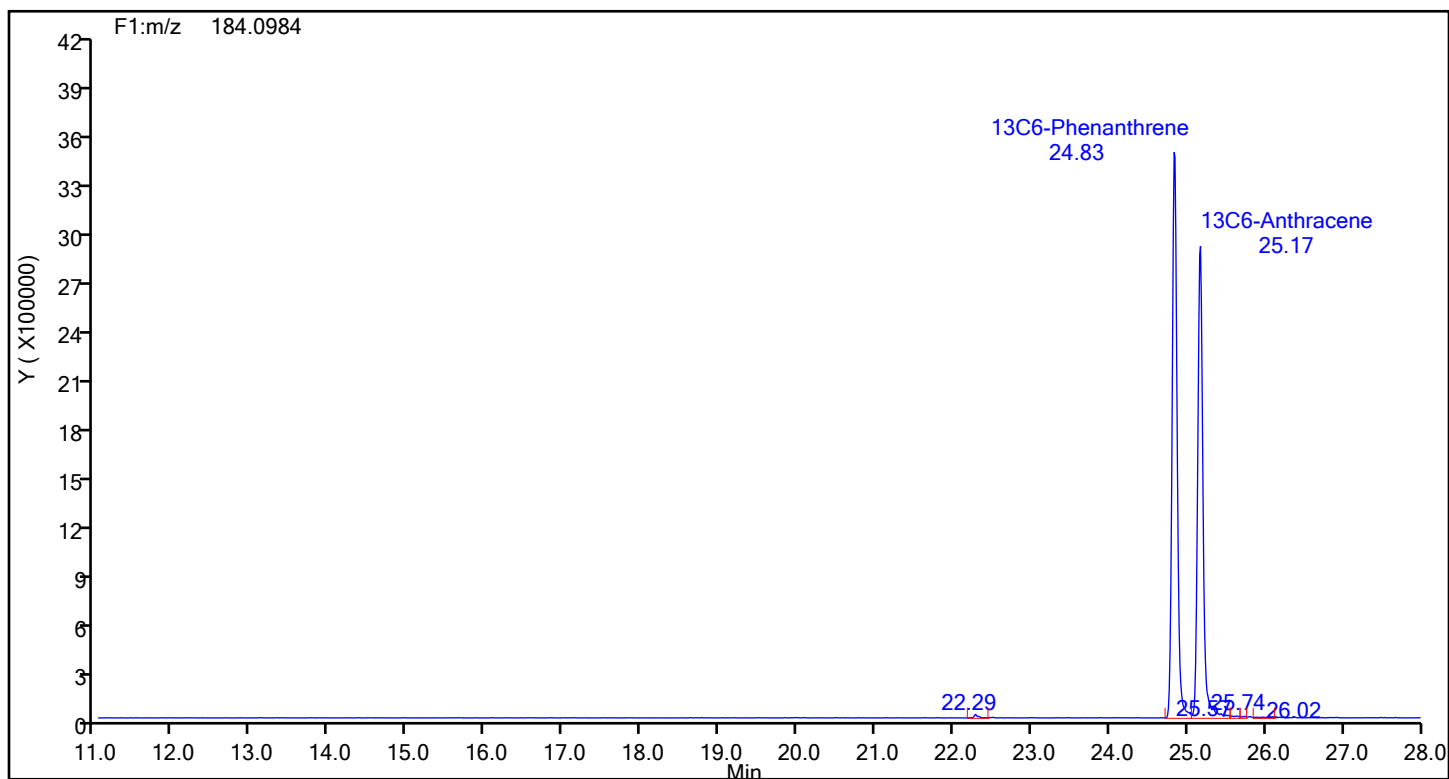
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Phenanthrene



Phenanthrene Standards



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA 23 PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

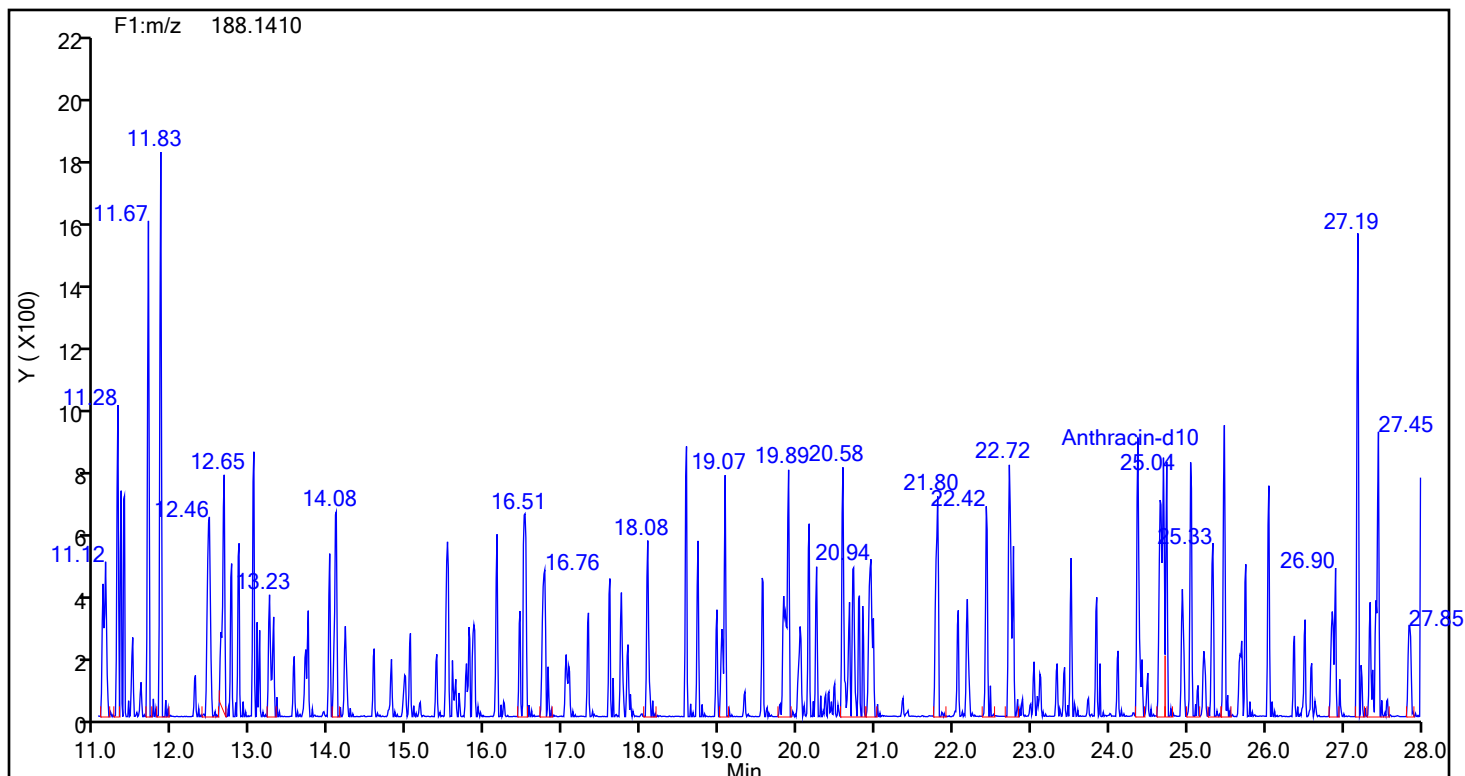
Worklist#: 88561

Sample Line#: 8

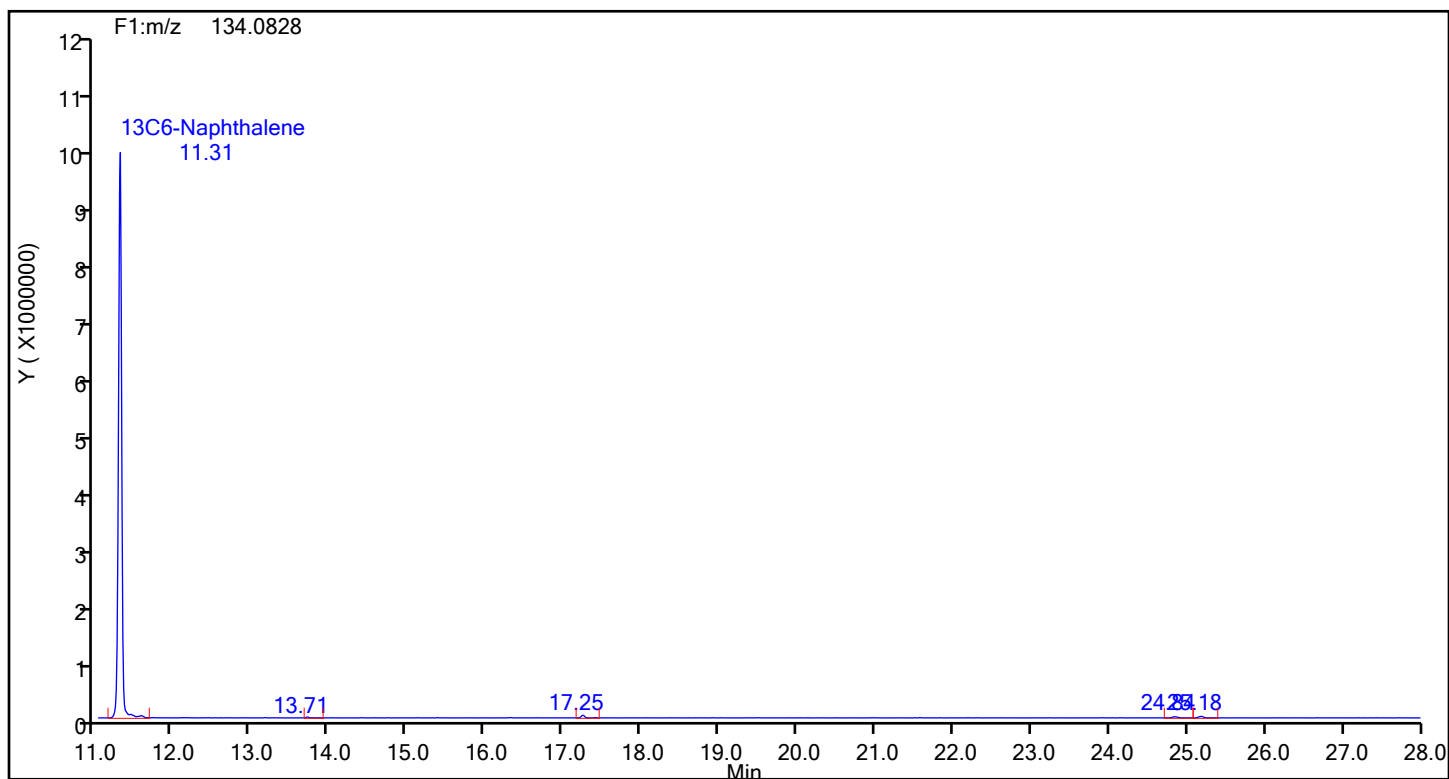
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Anthracin-d10

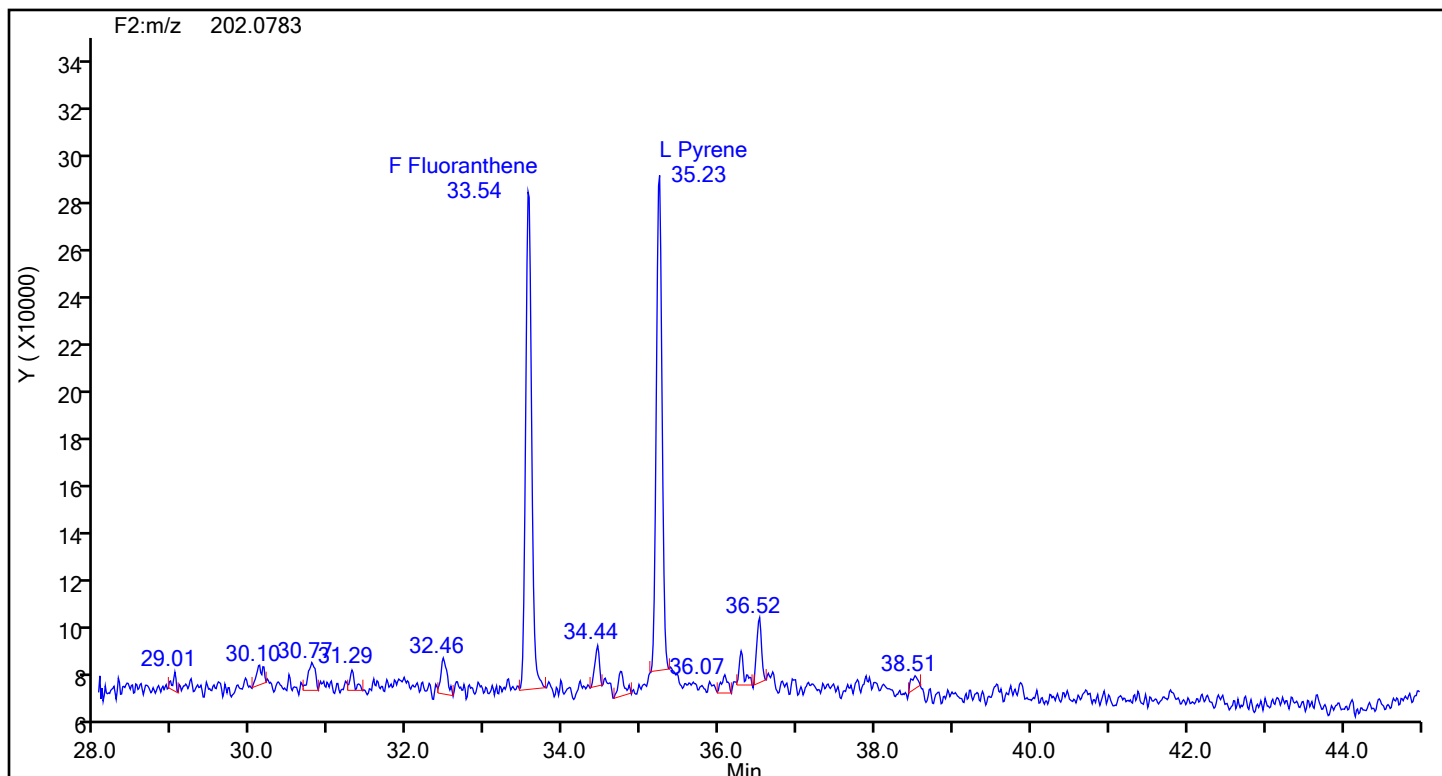


### Anthracin-d10 Standards

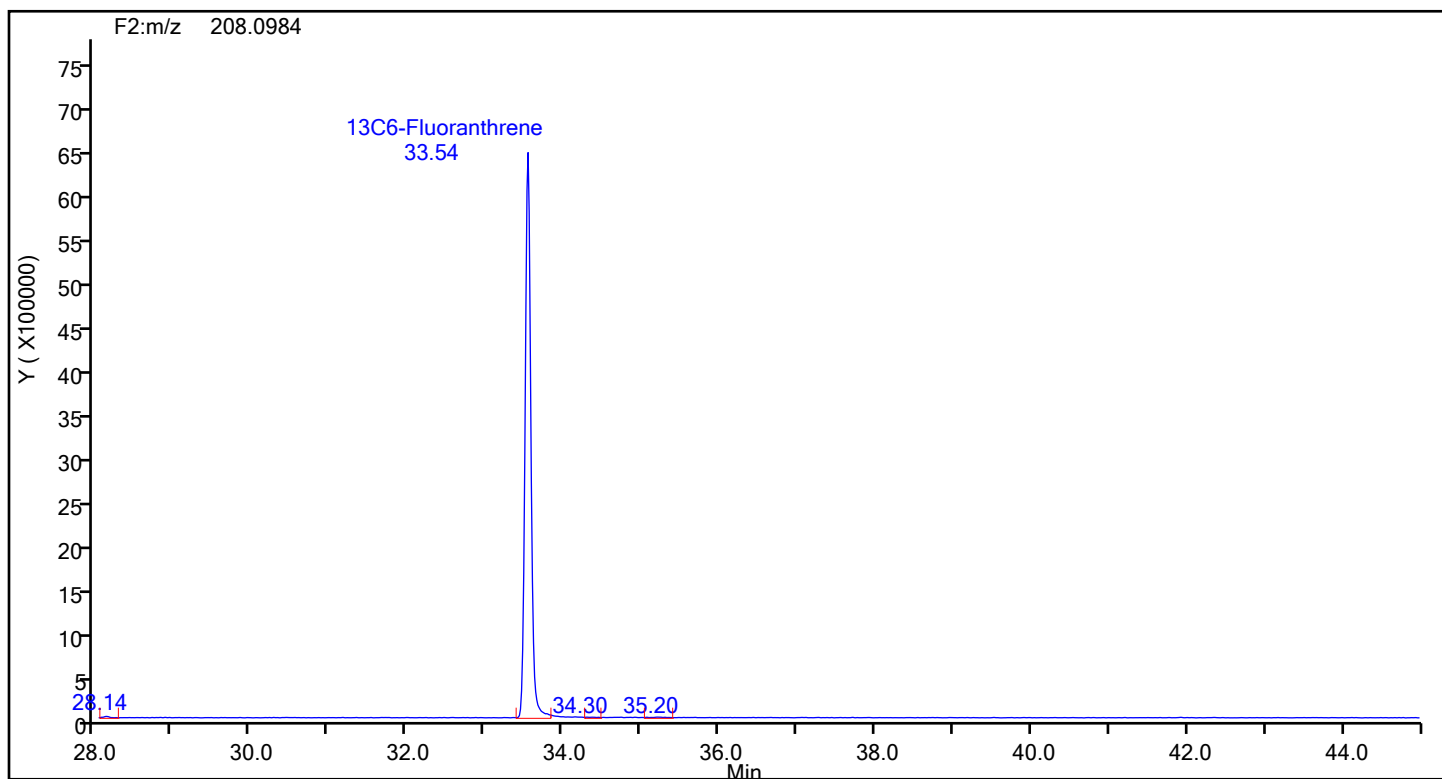


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Injection Date: 10-Jul-2024 15:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



## Fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

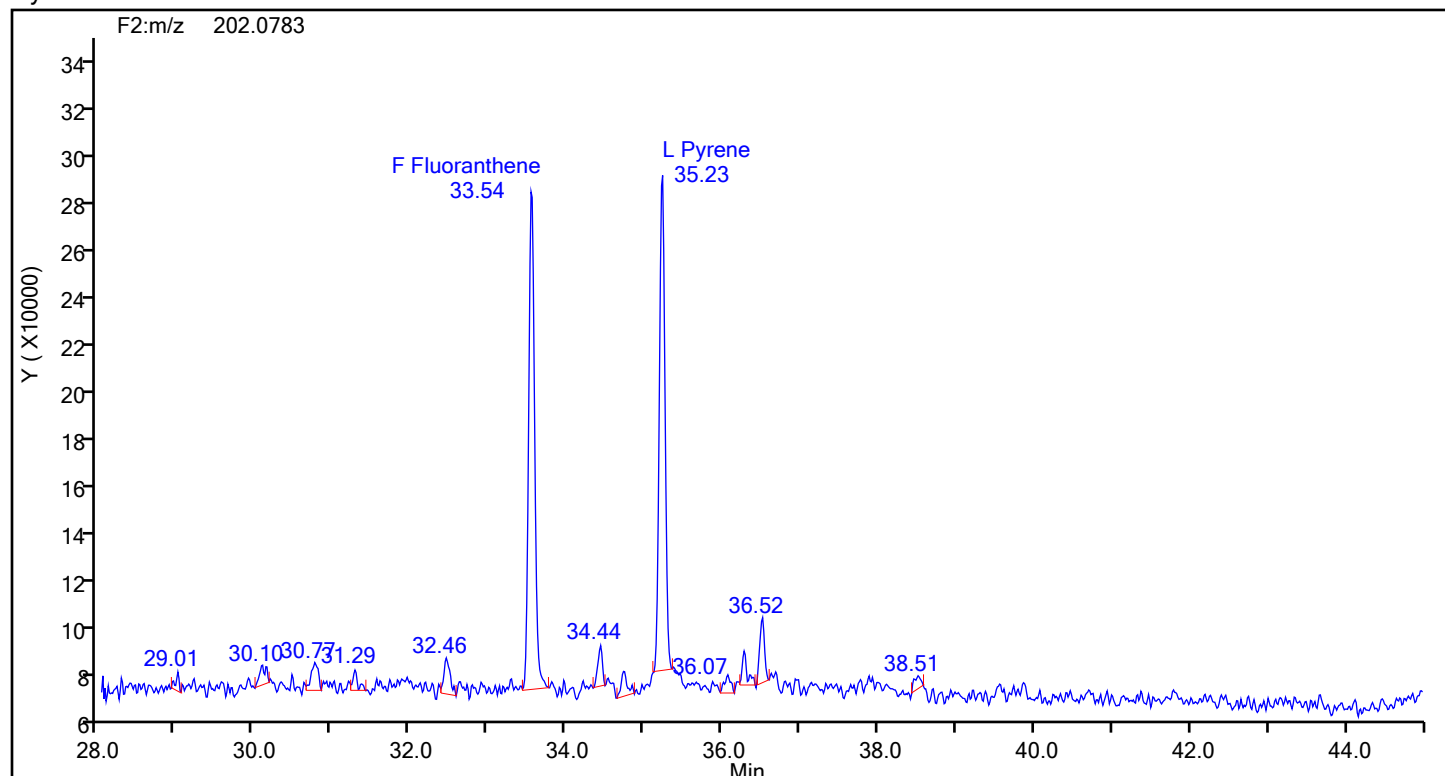
Worklist#: 88561

Sample Line#: 8

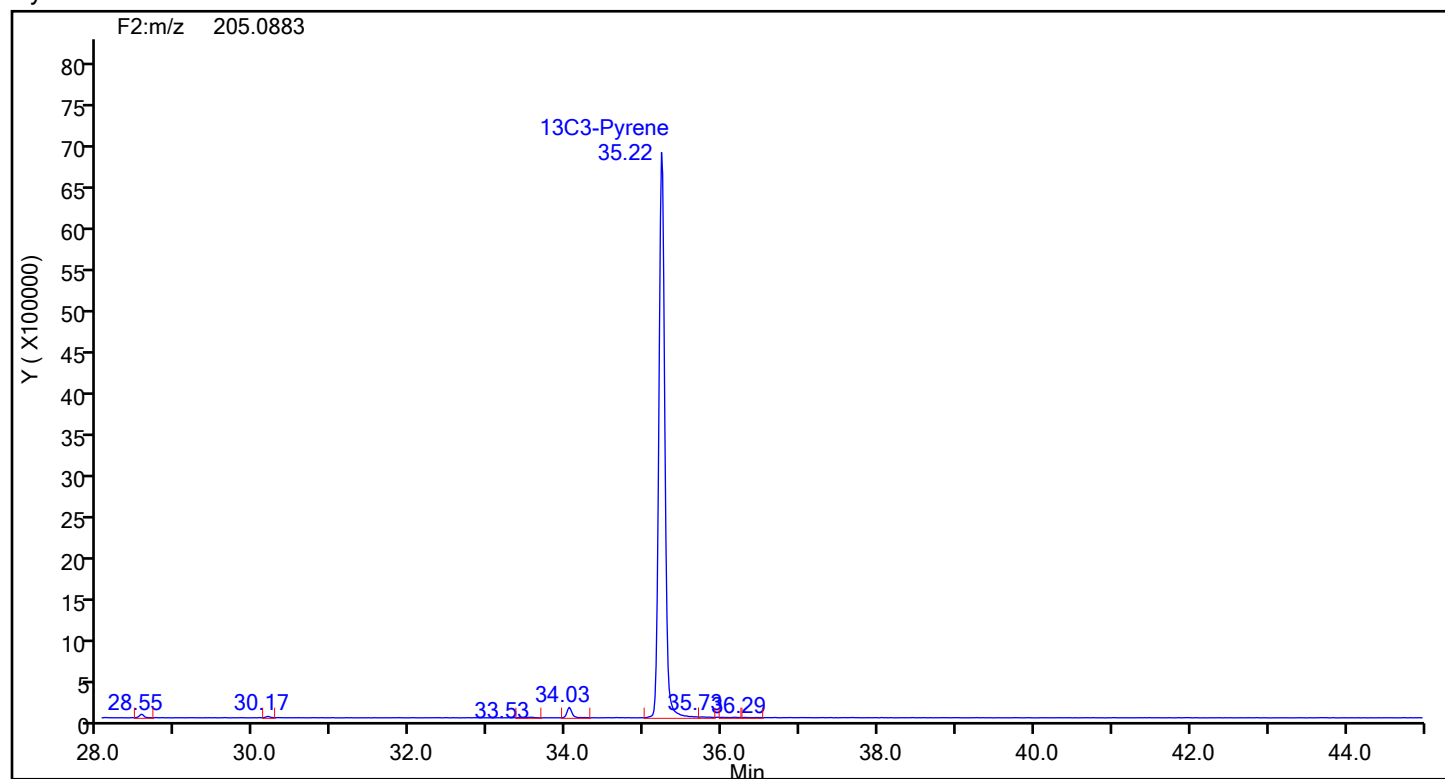
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Pyrene



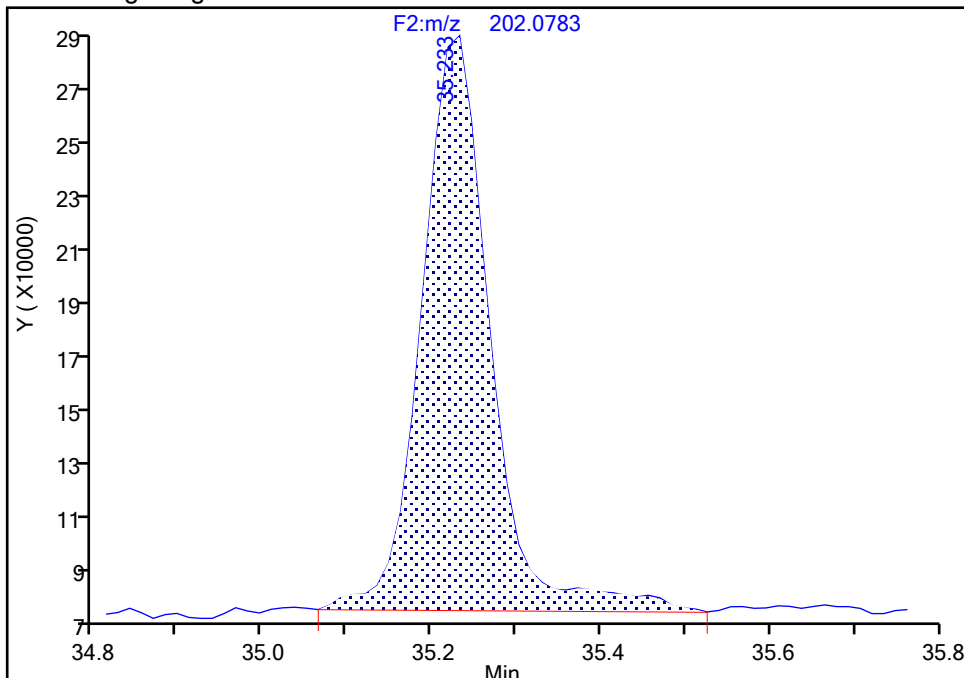
## Pyrene Standards



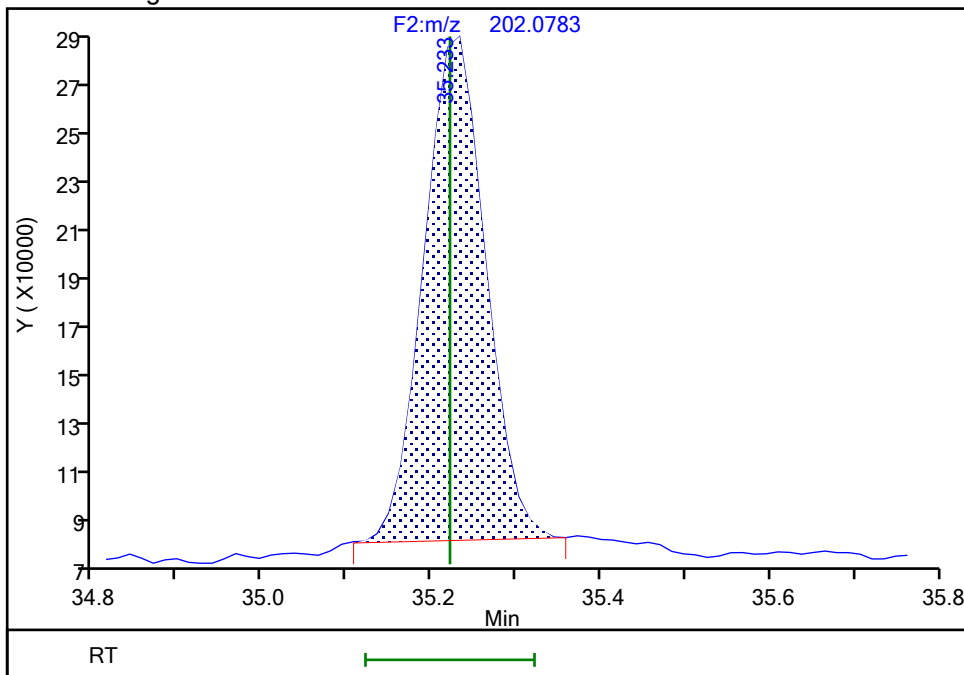
Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d		
Injection Date:	10-Jul-2024 15:12:00	Instrument ID:	D3PAH
Lims ID:	MB 140-87620/21-B		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Worklist S
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Column:	Restek-5Sil MS 25um ( 0.25 mm)	Detector	F2(28.03 :43.99 )

Signal: 1

## Processing Integration Results



## Manual Integration Results



### Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

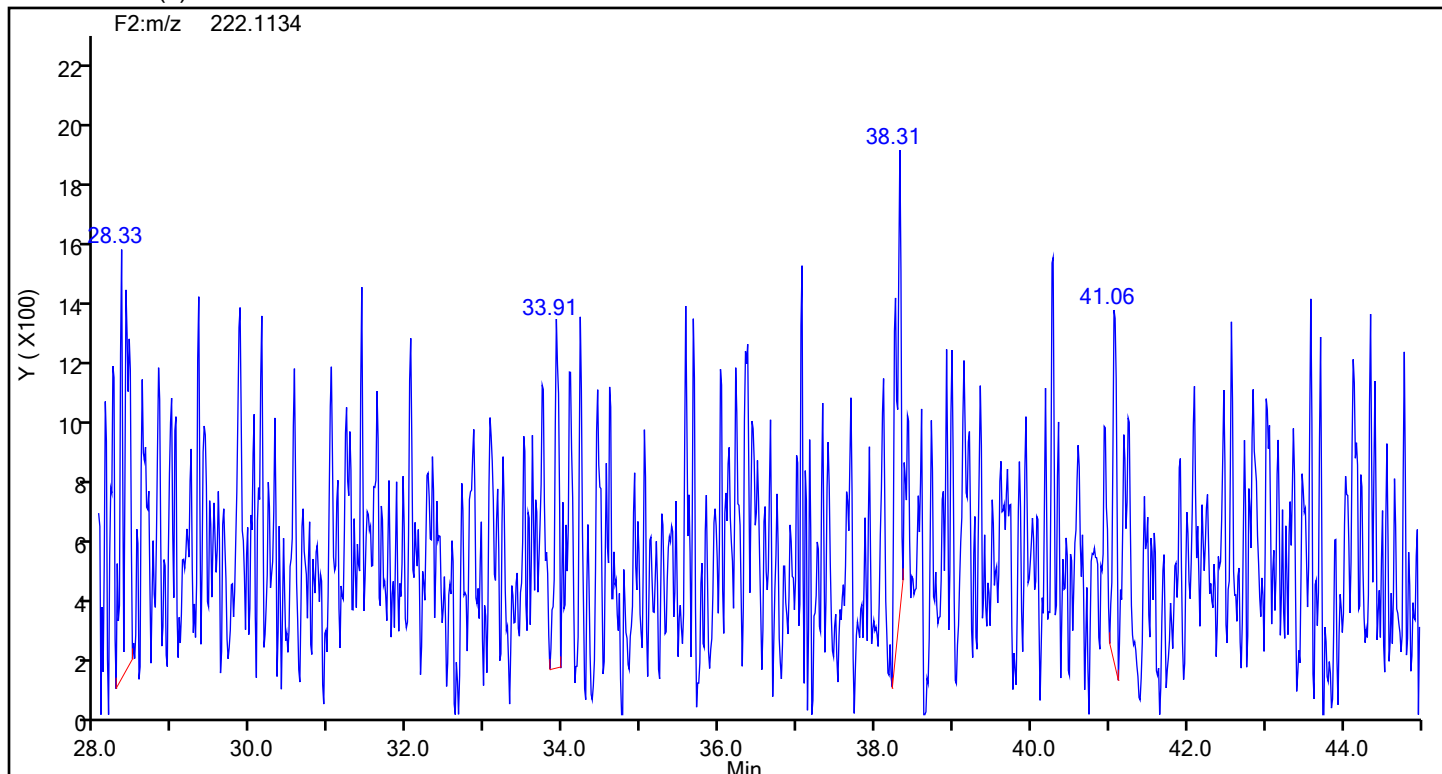
Worklist#: 88561

Sample Line#: 8

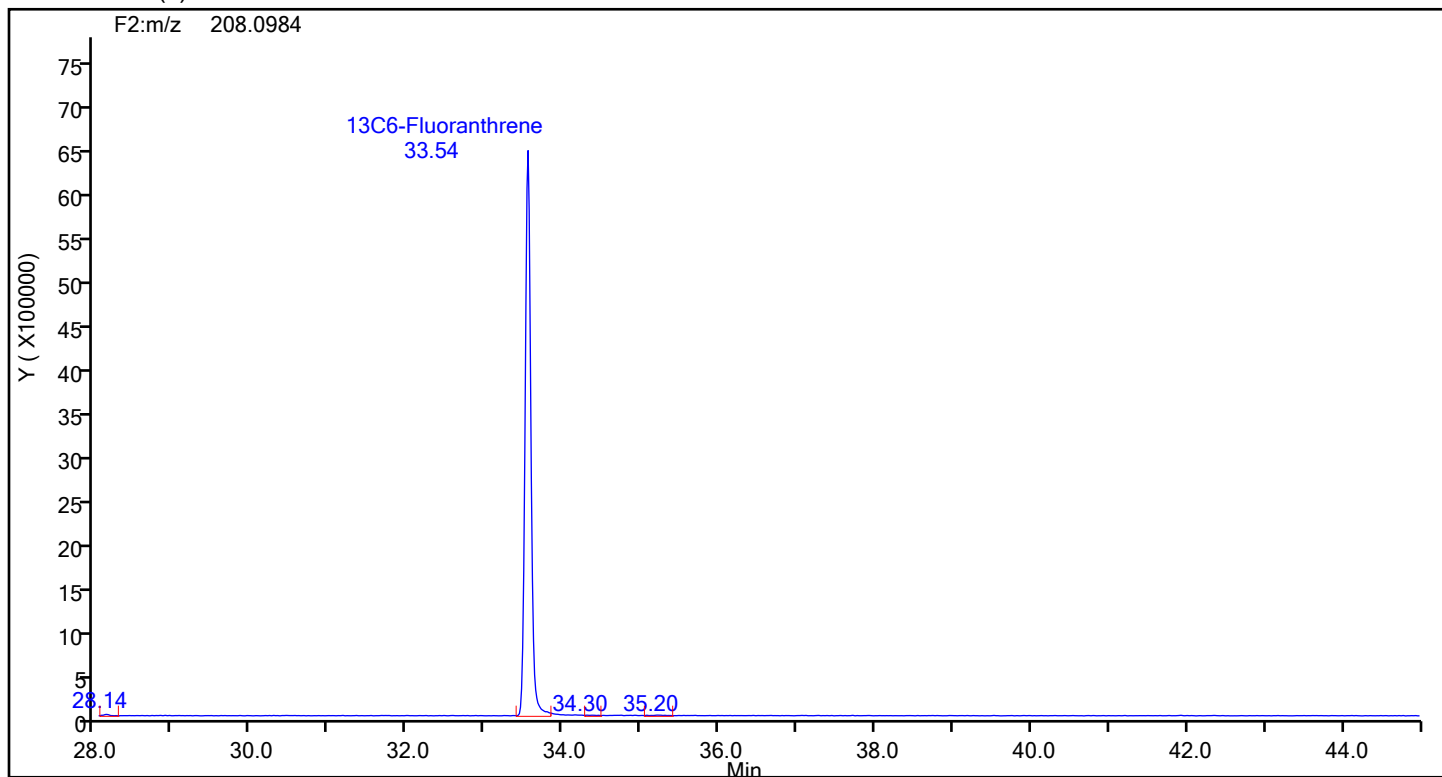
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur\_System

Limit Group: HR - HRPAAH ICAL

Sample Line#: 8

Sample Line#: 8

Column Dia: 0.25 mm

Chromatogram of the sample showing peaks for L Chrysene, F Benzo[a]anthracene, and several unidentified peaks. The x-axis is time in minutes (45.0 to 60.0) and the y-axis is intensity (Y (X10000)).

Peak Label	Retention Time (Min)
F Benzo[a]anthracene	45.72
L Chrysene	46.01
Unidentified	52.65
Unidentified	53.74
Unidentified	54.28
Unidentified	54.70
Unidentified	55.41
Unidentified	55.56
Unidentified	57.83
Unidentified	58.61
Unidentified	59.13
Unidentified	59.82

F3:m/z 234.1140

<sup>13</sup>C6-Benzo(a)anthracene  
45.72

Y (X100000)

Min



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

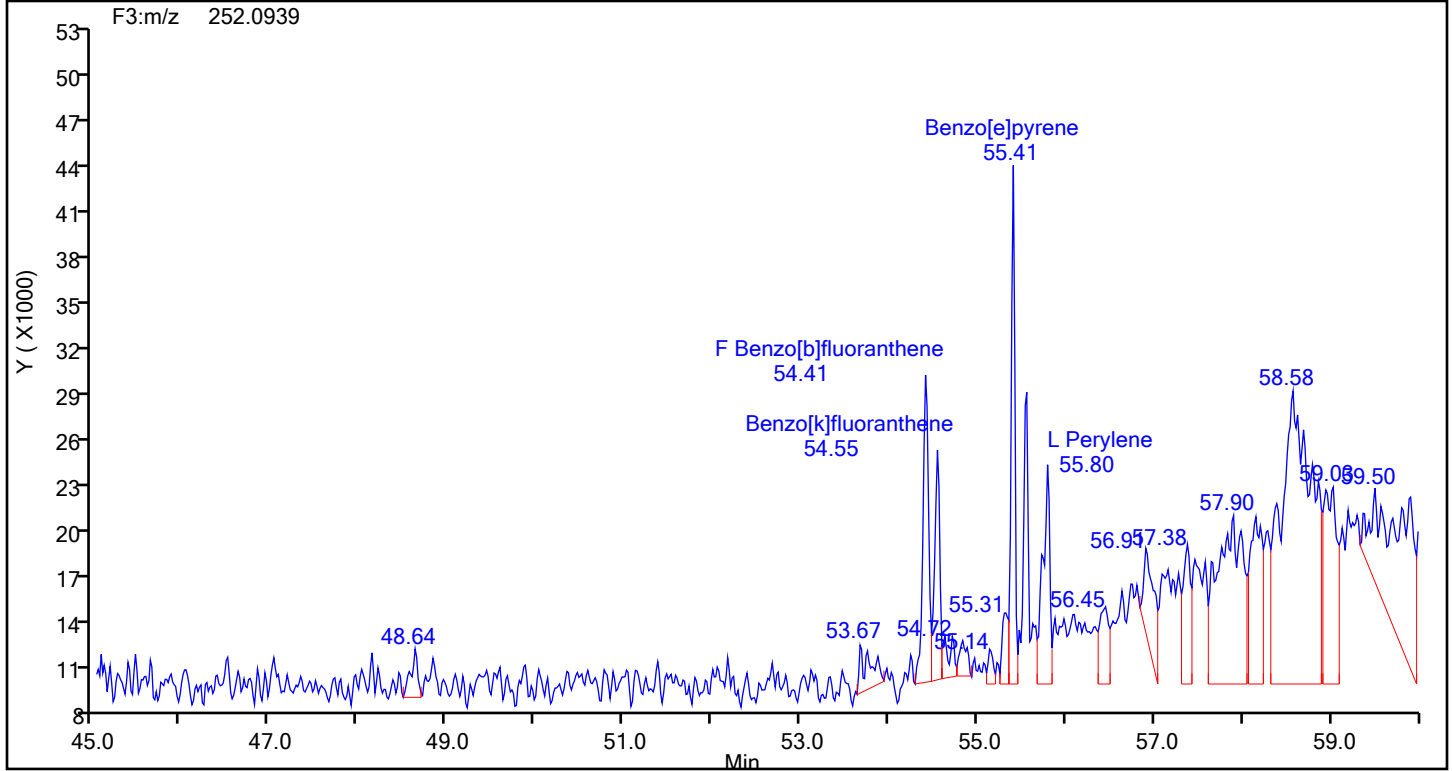
Worklist#: 88561

Sample Line#: 8

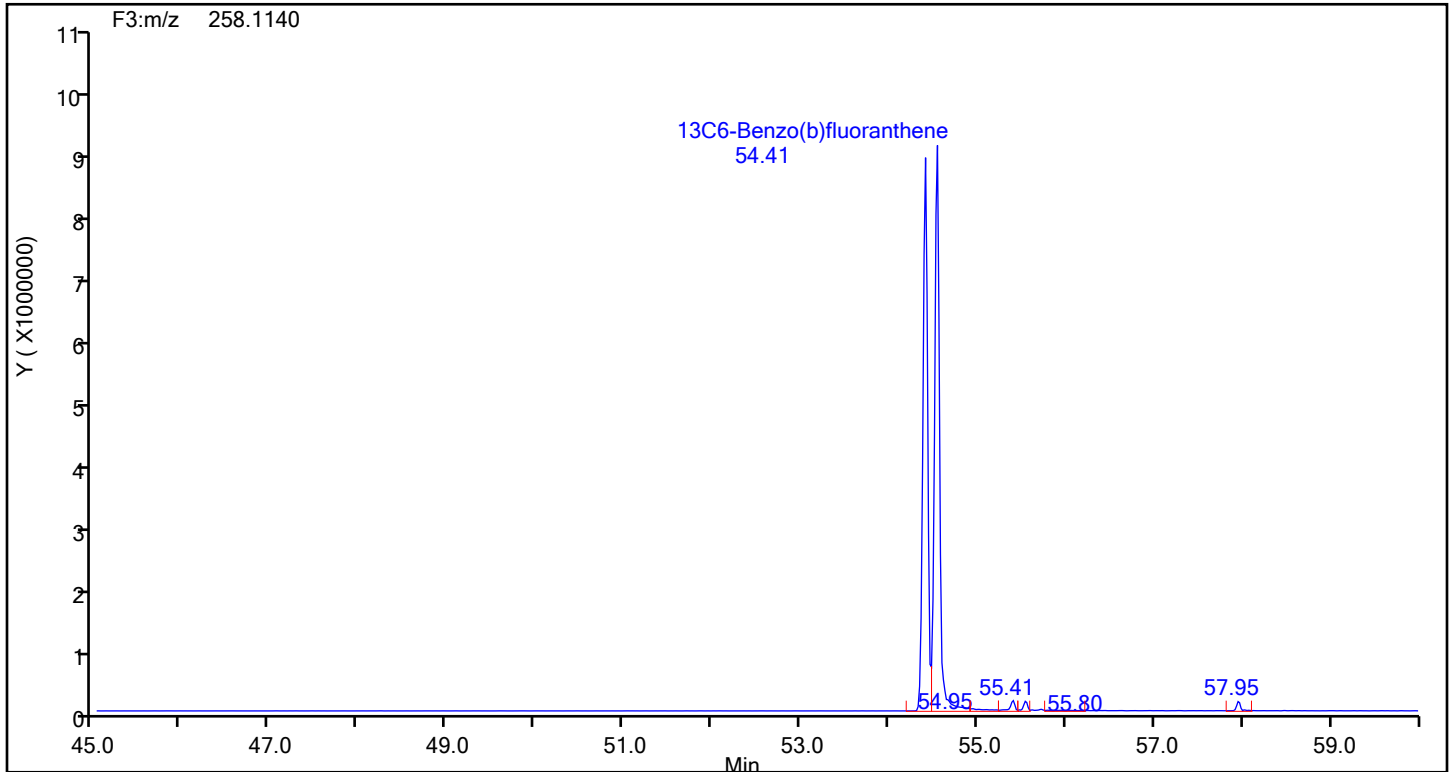
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards



## Eurofins Knoxville

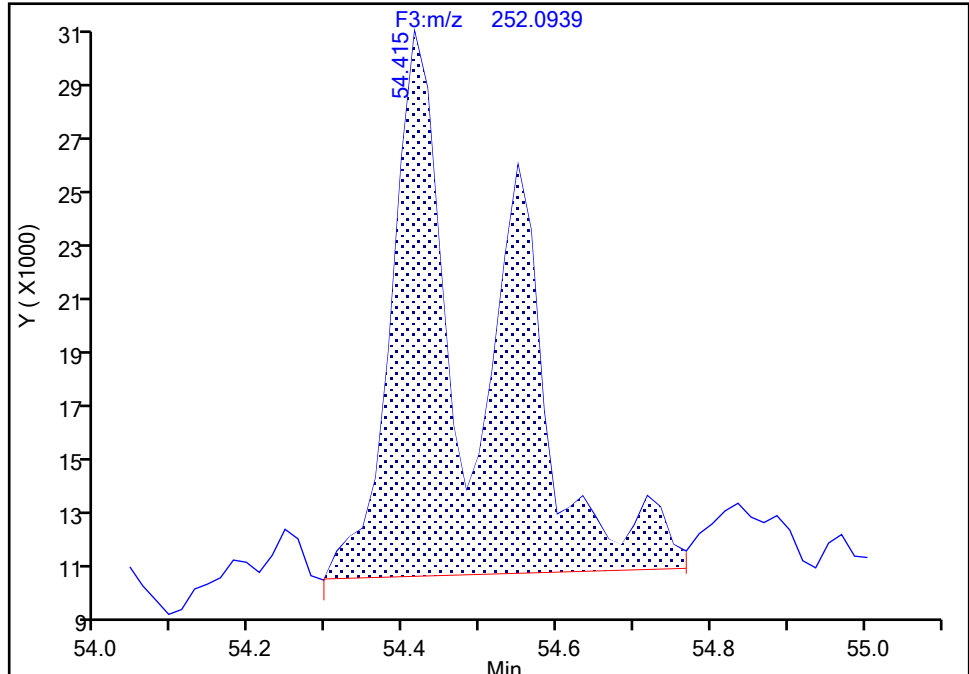
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Injection Date: 10-Jul-2024 15:12:00 Instrument ID: D3PAH  
Lims ID: MB 140-87620/21-B  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[b]fluoranthene, CAS: 205-99-2

Signal: 1

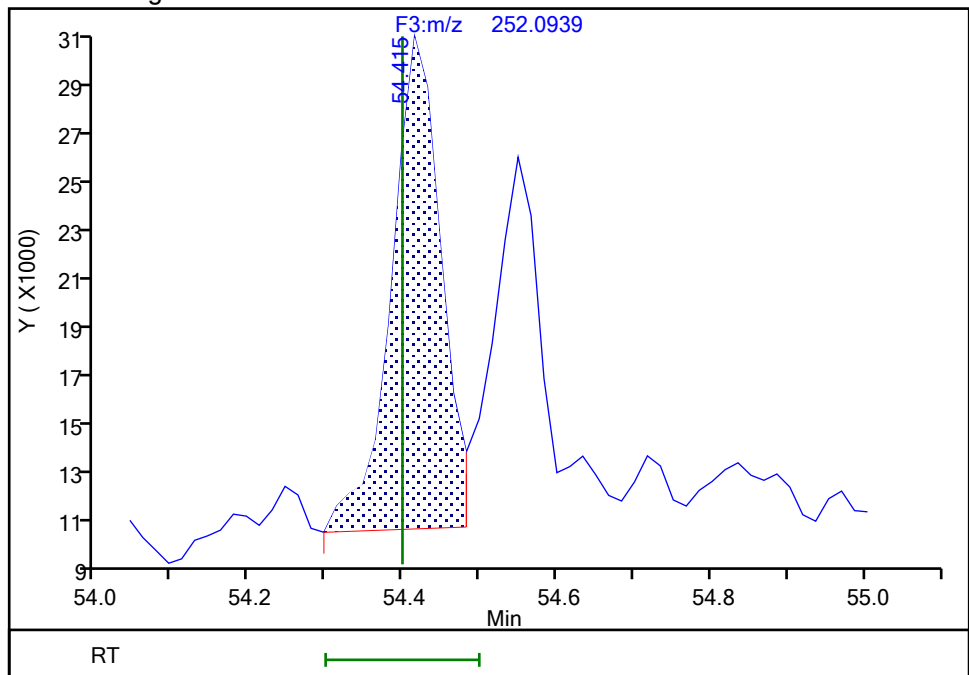
RT: 54.41  
Area: 166070  
Amount: 0.445244  
Amount Units: pg/ul

## Processing Integration Results



RT: 54.41  
Area: 89949  
Amount: 0.241159  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 11-Jul-2024 07:21:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d		
Injection Date:	10-Jul-2024 15:12:00	Instrument ID:	D3PAH
Lims ID:	MB 140-87620/21-B		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Worklist S
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Column:	Restek-5Sil MS 25um ( 0.25 mm)	Detector	F3(44.04 :59.98 )

Signal: 1

Not Detected  
Expected RT: 54.53

Chromatogram showing two peaks at retention times 54.4 and 54.6 minutes. The y-axis is labeled Y (X1000) and ranges from 10 to 30. The x-axis is labeled Min and ranges from 54.2 to 54.8. The peak at 54.4 minutes is labeled F3:m/z 252.0939.

RT: 54.55  
Area: 62223  
Amount: 0.154042  
Amount Units: pg/ul

Chromatogram showing a peak at 54.549 minutes. The y-axis is labeled 'Y (X1000)' and ranges from 10 to 30. The x-axis is labeled 'Min' and ranges from 54.2 to 54.8. A blue line represents the chromatogram. A green vertical line marks the peak at 54.549 minutes. A red shaded area under the peak is labeled 'F3:m/z 252.0939'. A green horizontal bar at the bottom indicates the retention time range from approximately 54.4 to 54.7 minutes.

### Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

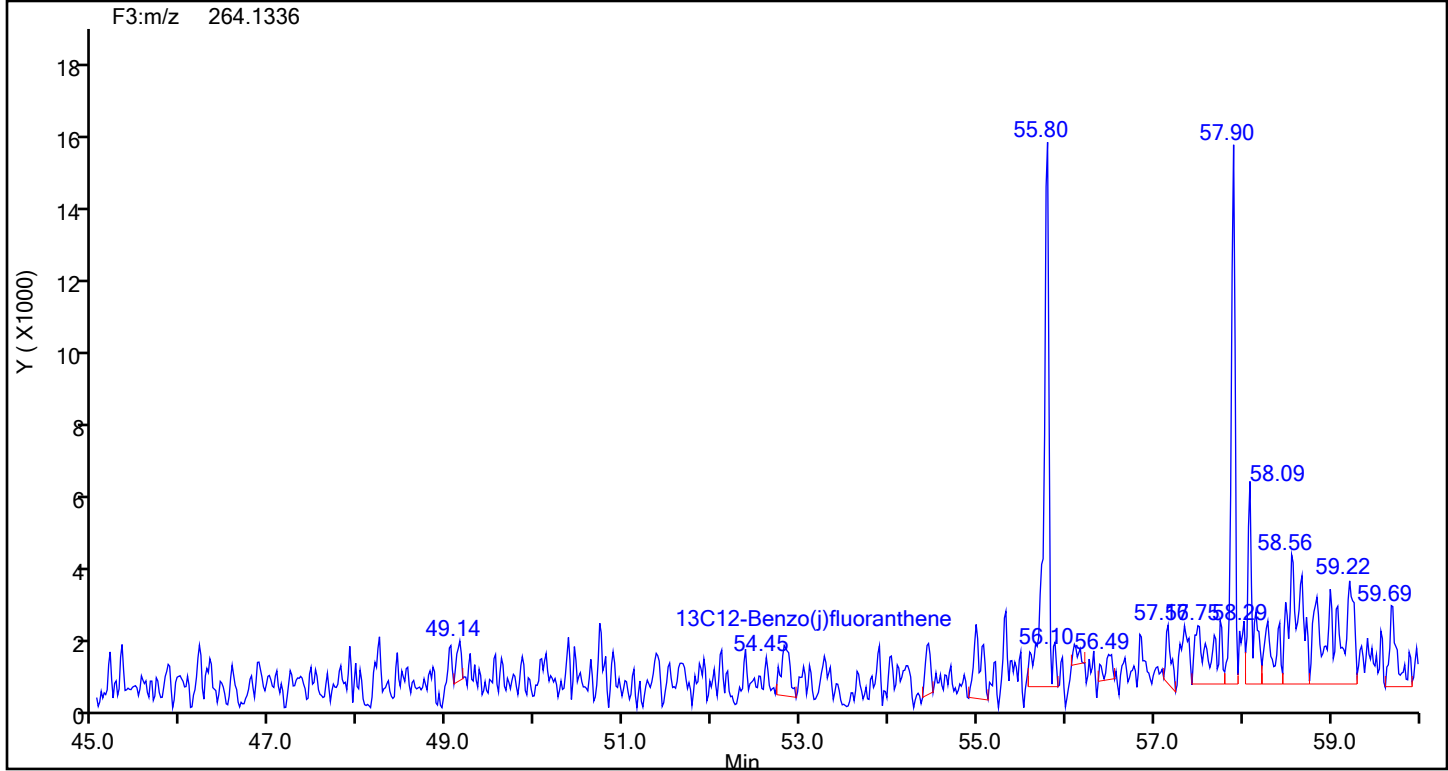
Worklist#: 88561

Sample Line#: 8

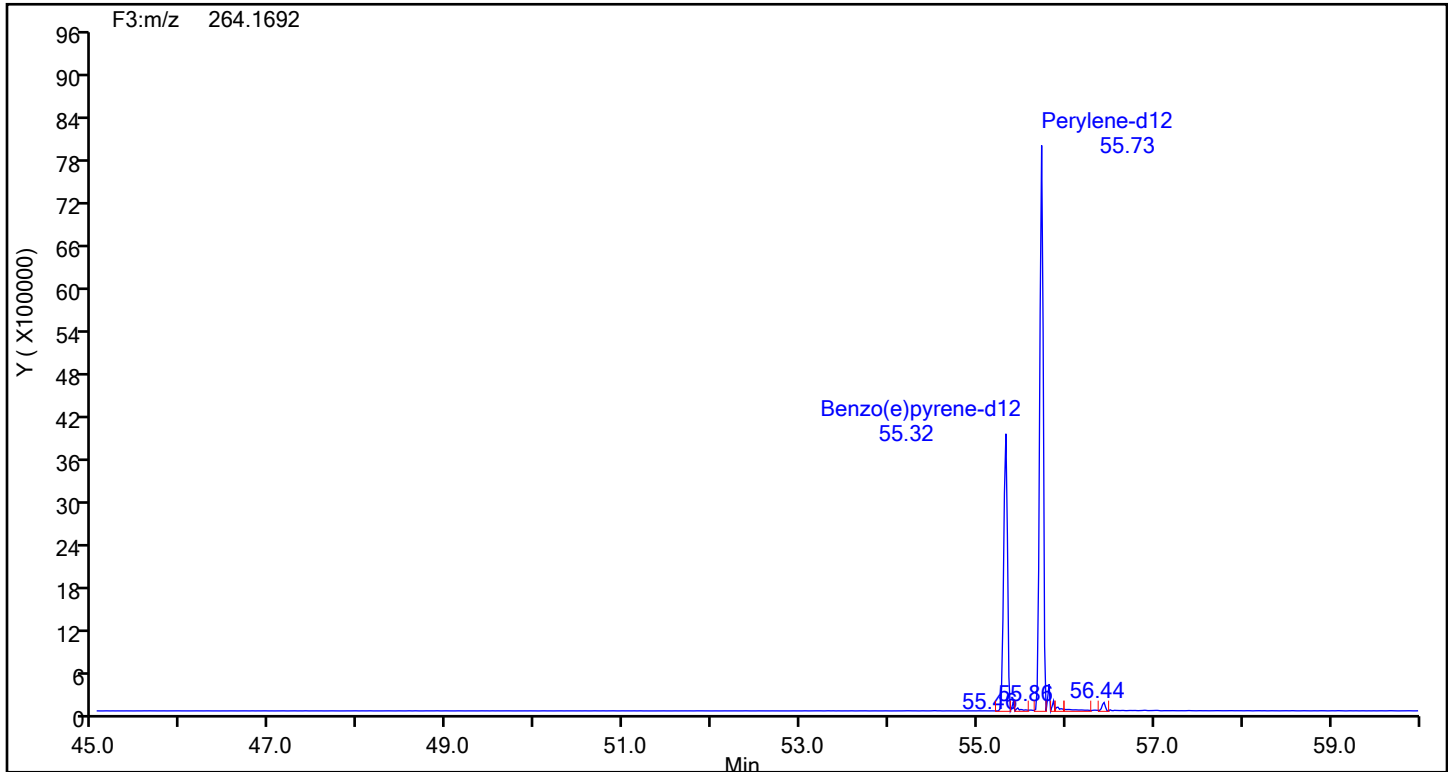
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



13C12-Benzo(j)fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

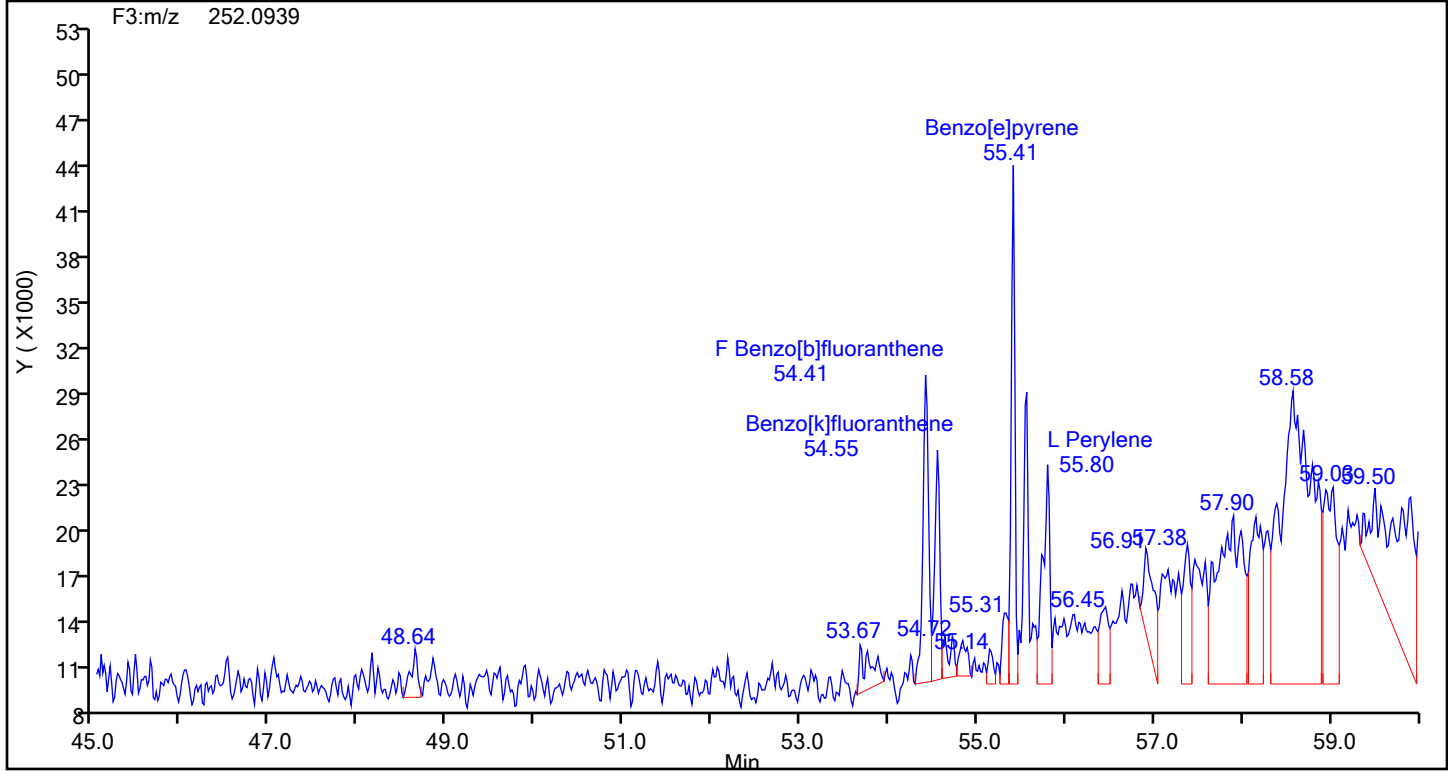
Worklist#: 88561

Sample Line#: 8

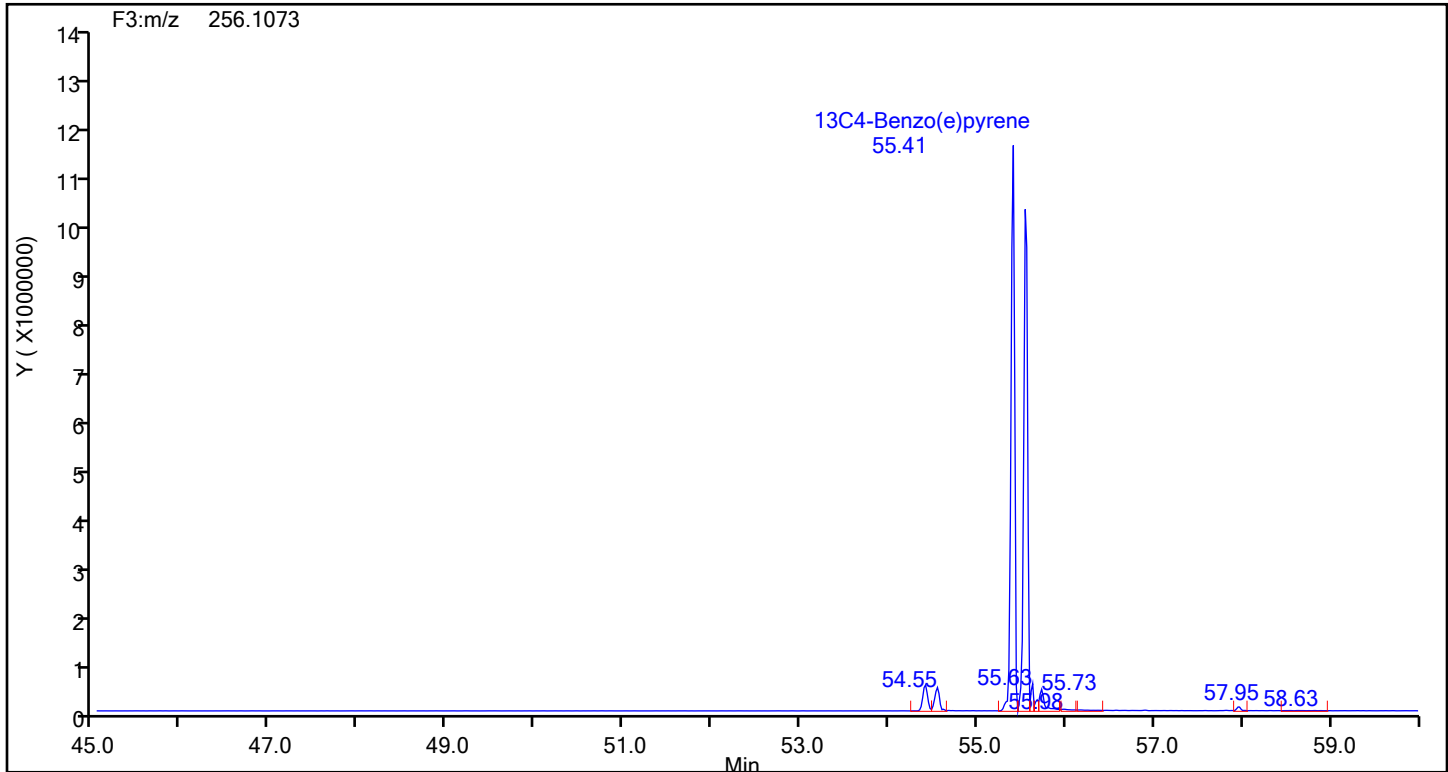
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[e]pyrene



## Benzo[e]pyrene Standards



## Eurofins Knoxville

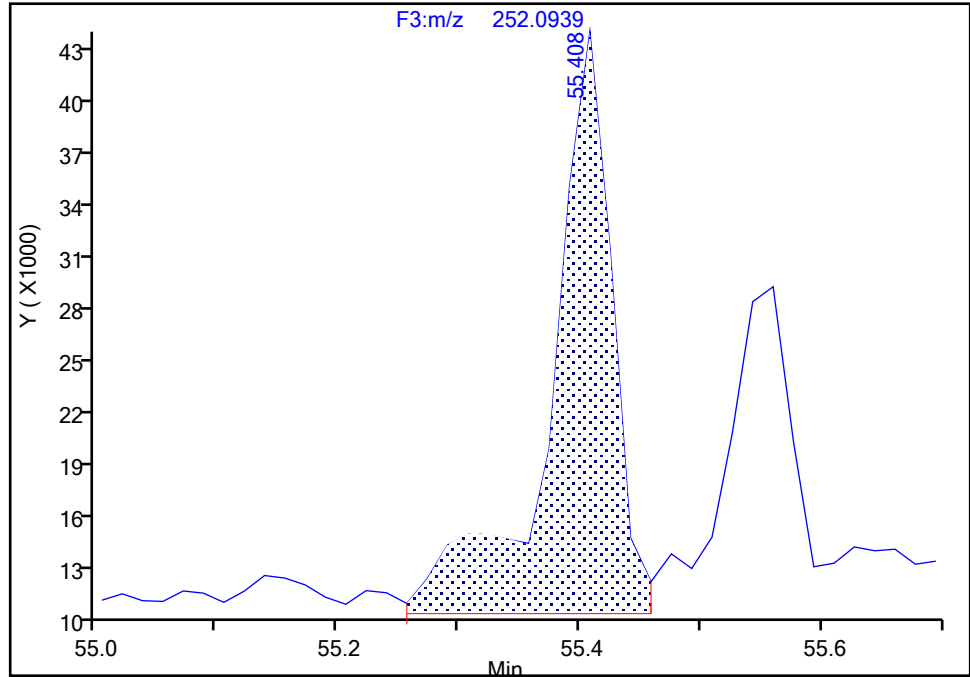
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Injection Date: 10-Jul-2024 15:12:00 Instrument ID: D3PAH  
Lims ID: MB 140-87620/21-B  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector F3(44.04 :59.98 )

## Benzo[e]pyrene, CAS: 192-97-2

Signal: 1

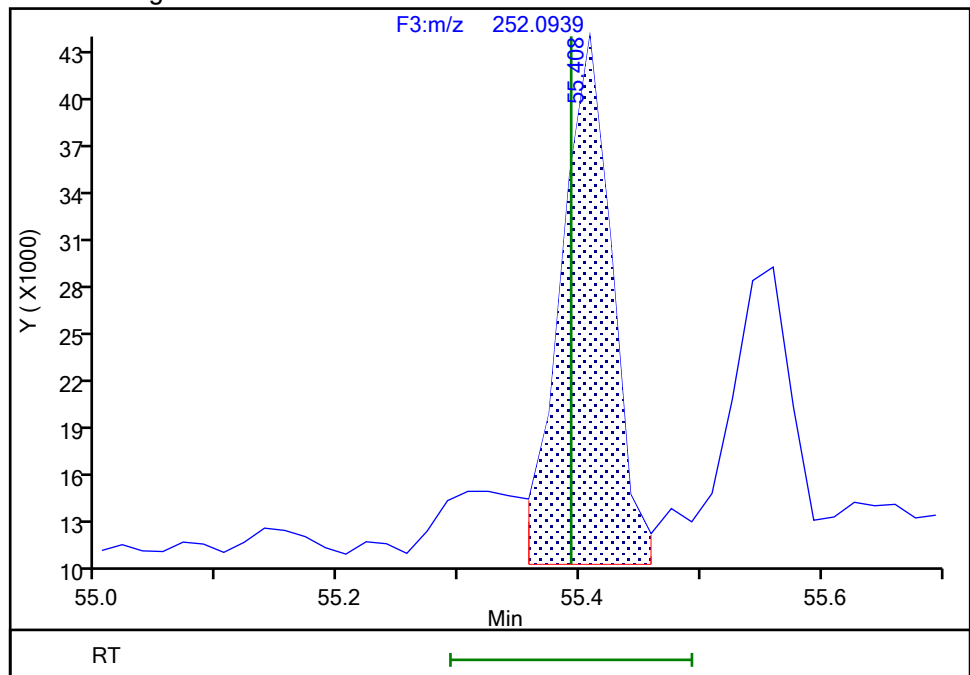
RT: 55.41  
Area: 118674  
Amount: 0.367811  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.41  
Area: 99688  
Amount: 0.308967  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 11-Jul-2024 07:20:30 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

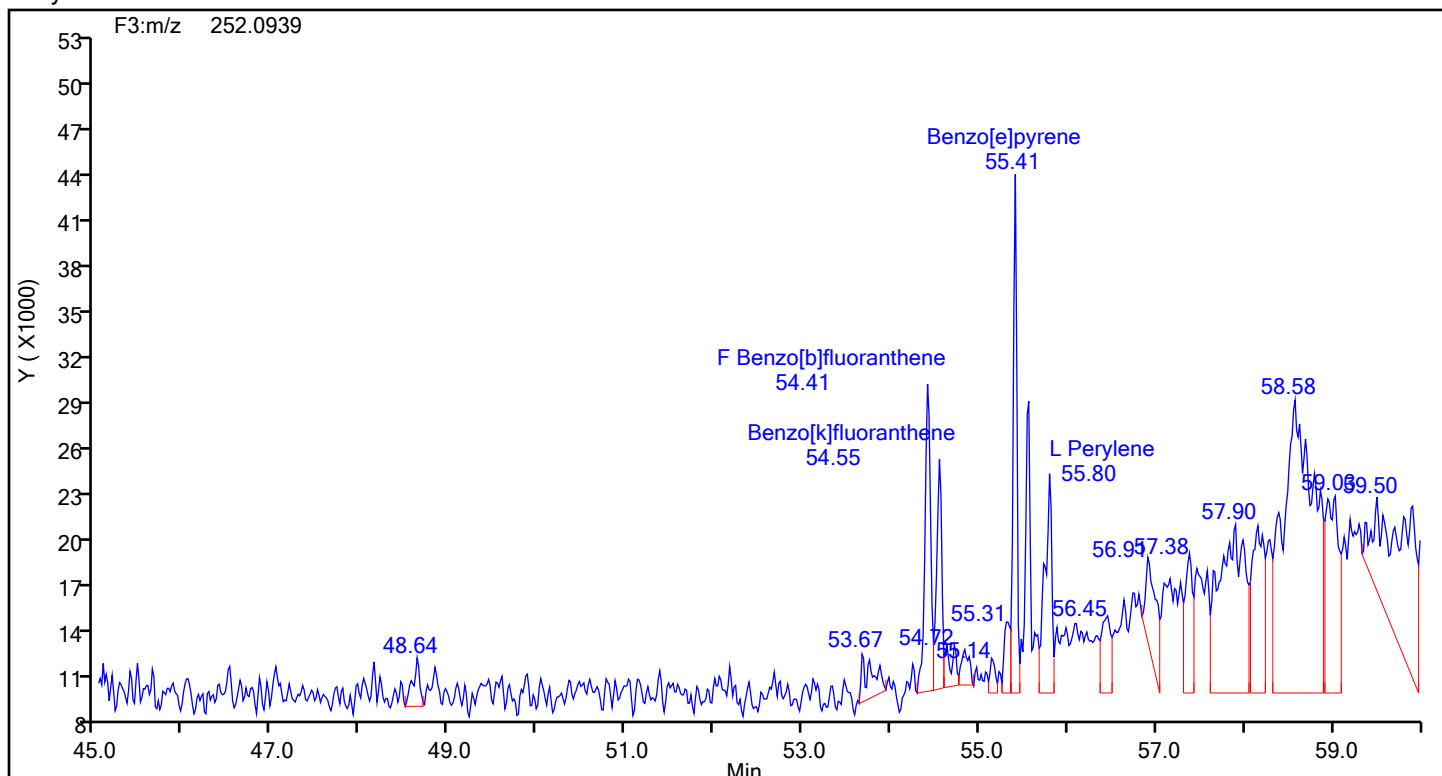
Worklist#: 88561

Sample Line#: 8

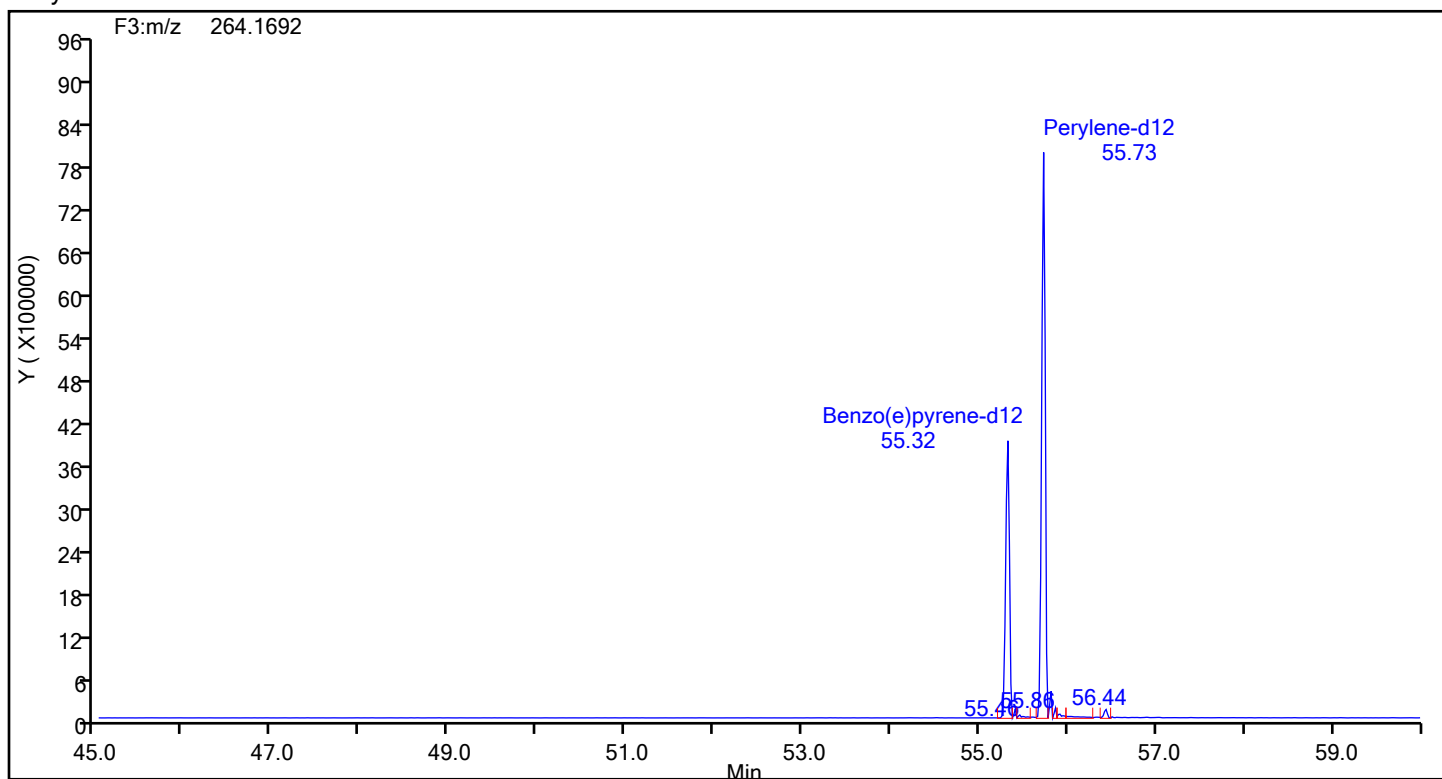
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Perylene



## Perylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

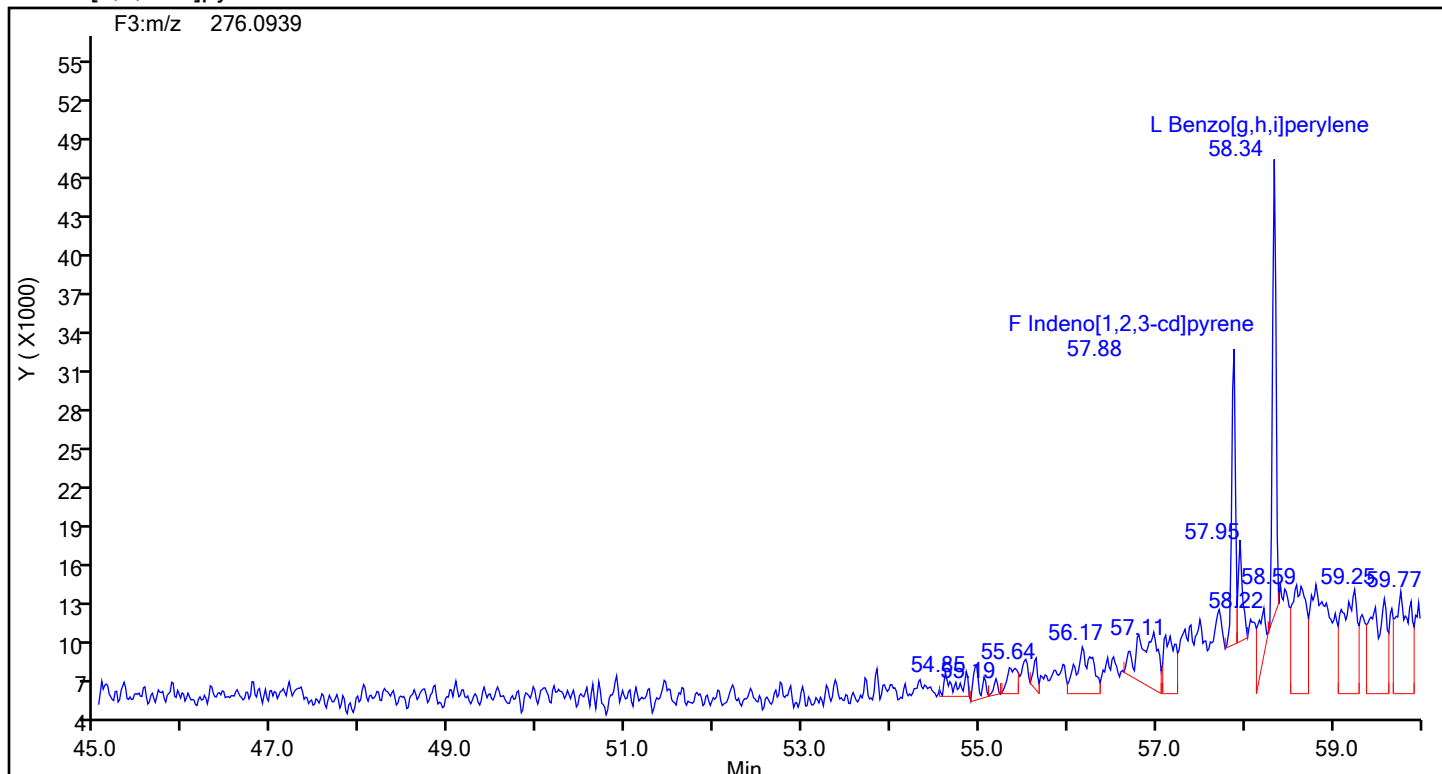
Worklist#: 88561

Sample Line#: 8

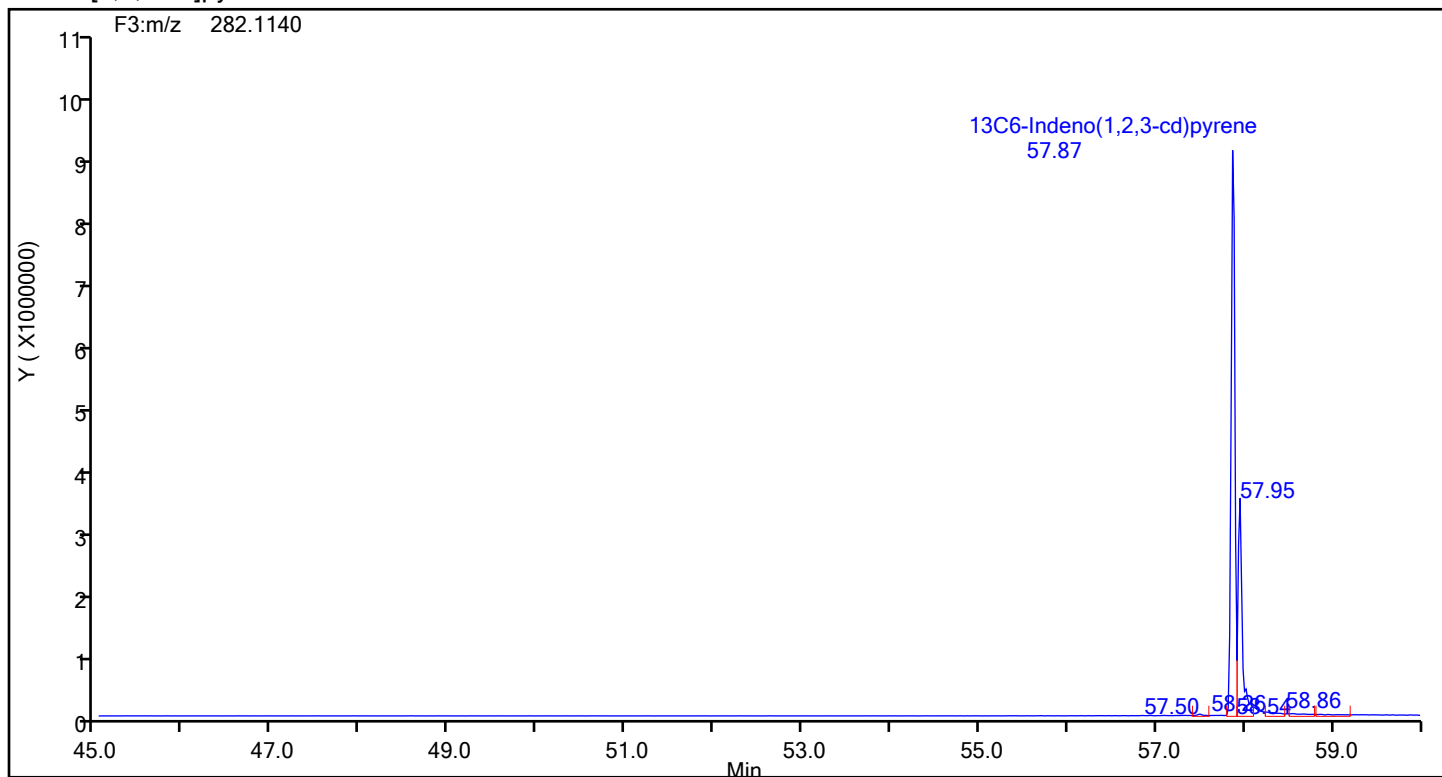
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards

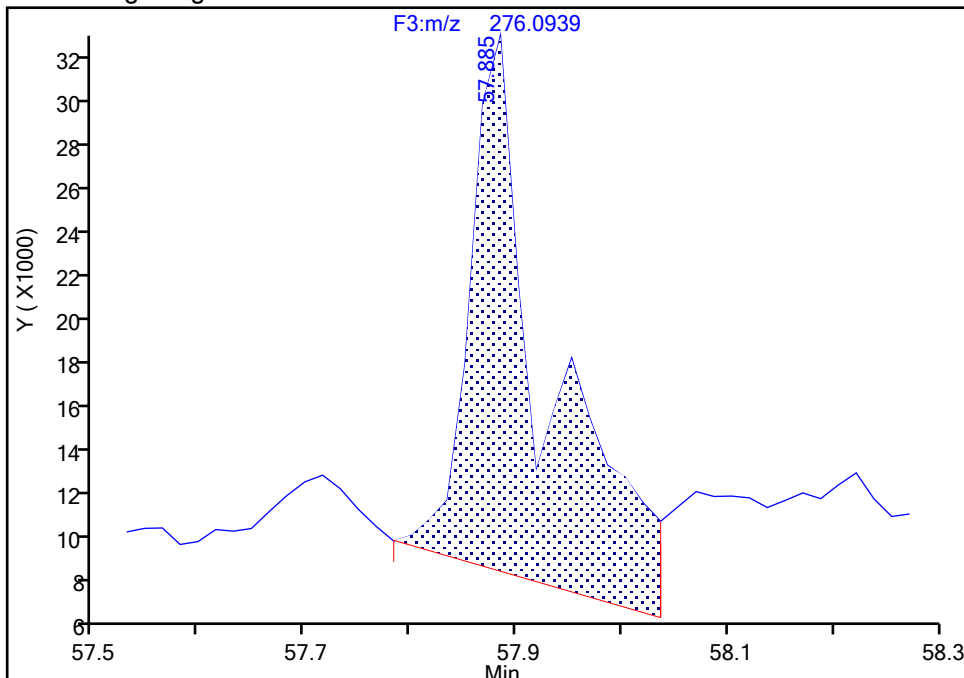




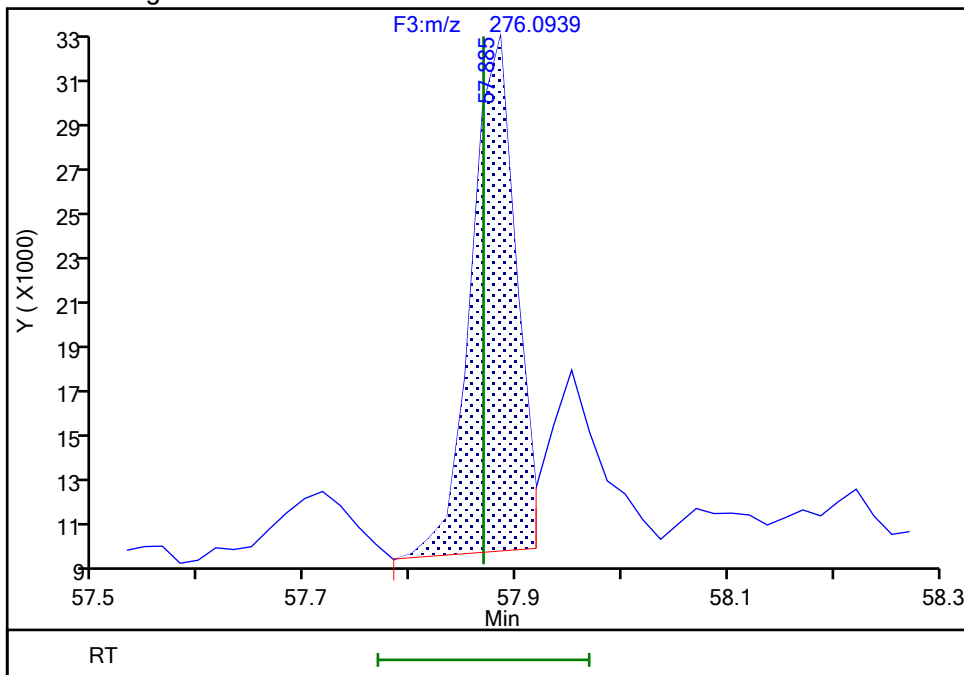
Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d		
Injection Date:	10-Jul-2024 15:12:00	Instrument ID:	D3PAH
Lims ID:	MB 140-87620/21-B		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Worklist S
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Column:	Restek-5Sil MS 25um ( 0.25 mm)	Detector	F3(44.04 :59.98 )

Signal: 1

## Processing Integration Results



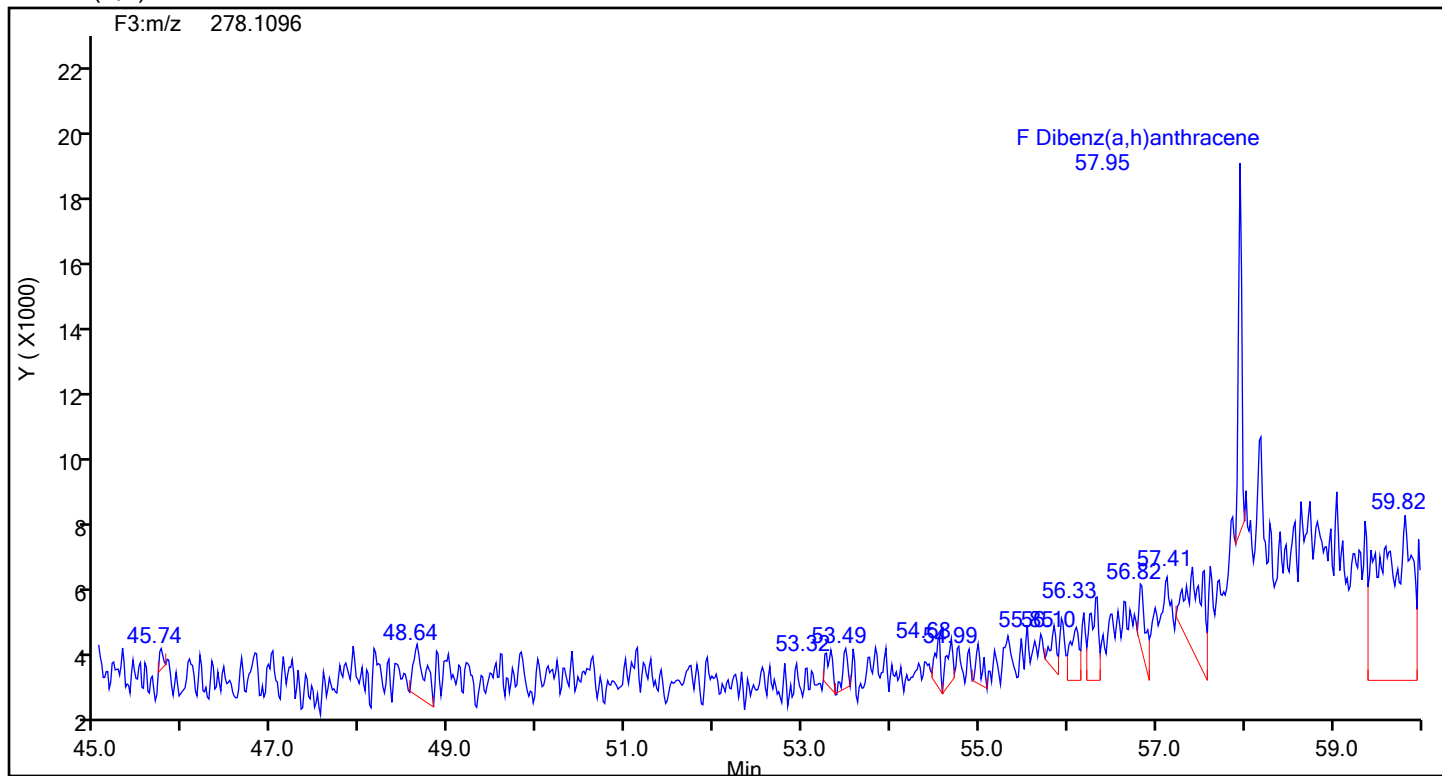
## Manual Integration Results



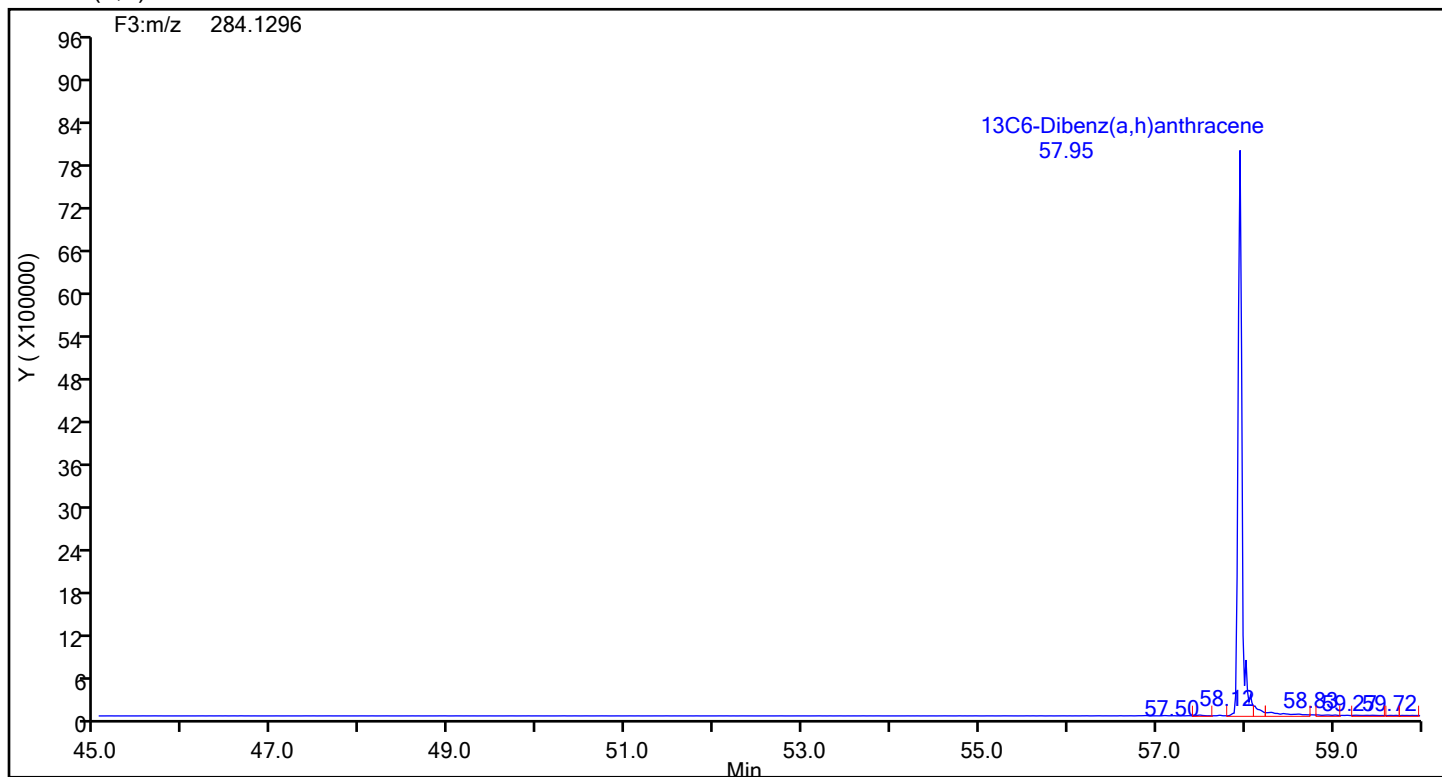
### Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Injection Date: 10-Jul-2024 15:12:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 8  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Dibenz(a,h)anthracene



## Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

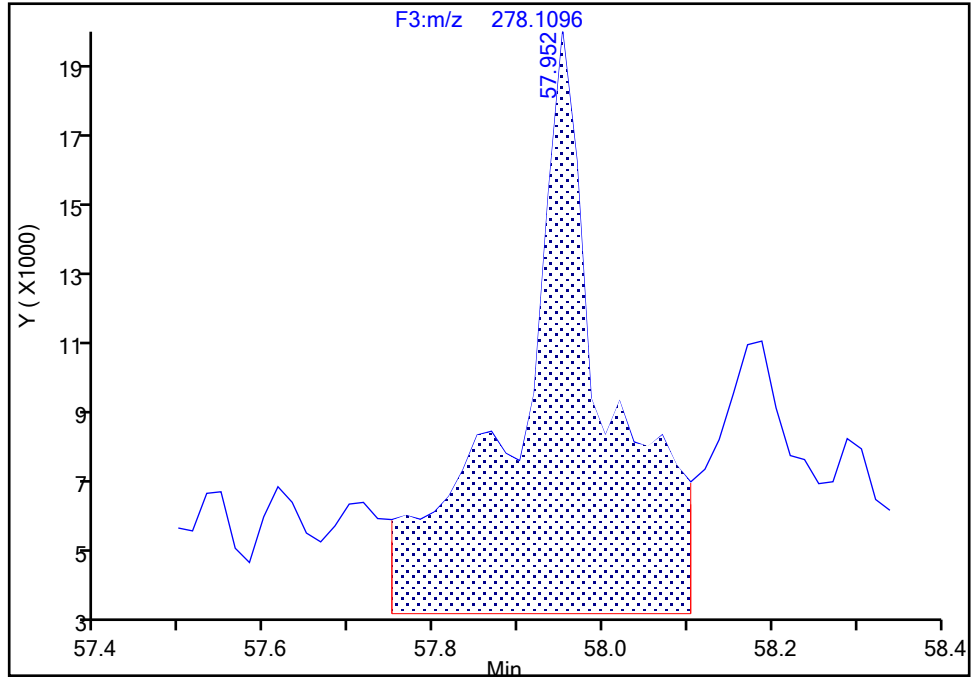
Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Injection Date: 10-Jul-2024 15:12:00 Instrument ID: D3PAH  
Lims ID: MB 140-87620/21-B  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: EPA\_23\_PAH Limit Group: HR - HRPAL ICAL  
Column: Restek-5Sil MS 25um ( 0.25 mm) Detector: F3(44.04 :59.98 )

## Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

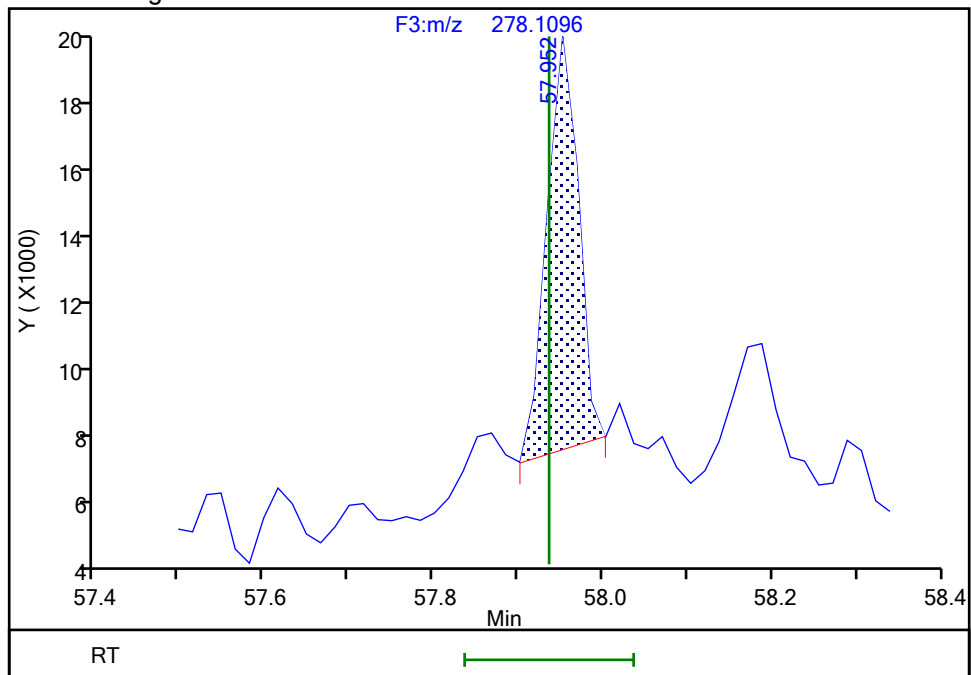
RT: 57.95  
Area: 115739  
Amount: 0.410986  
Amount Units: pg/ul

## Processing Integration Results



RT: 57.95  
Area: 28617  
Amount: 0.101618  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 11-Jul-2024 07:21:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d

Injection Date: 10-Jul-2024 15:12:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

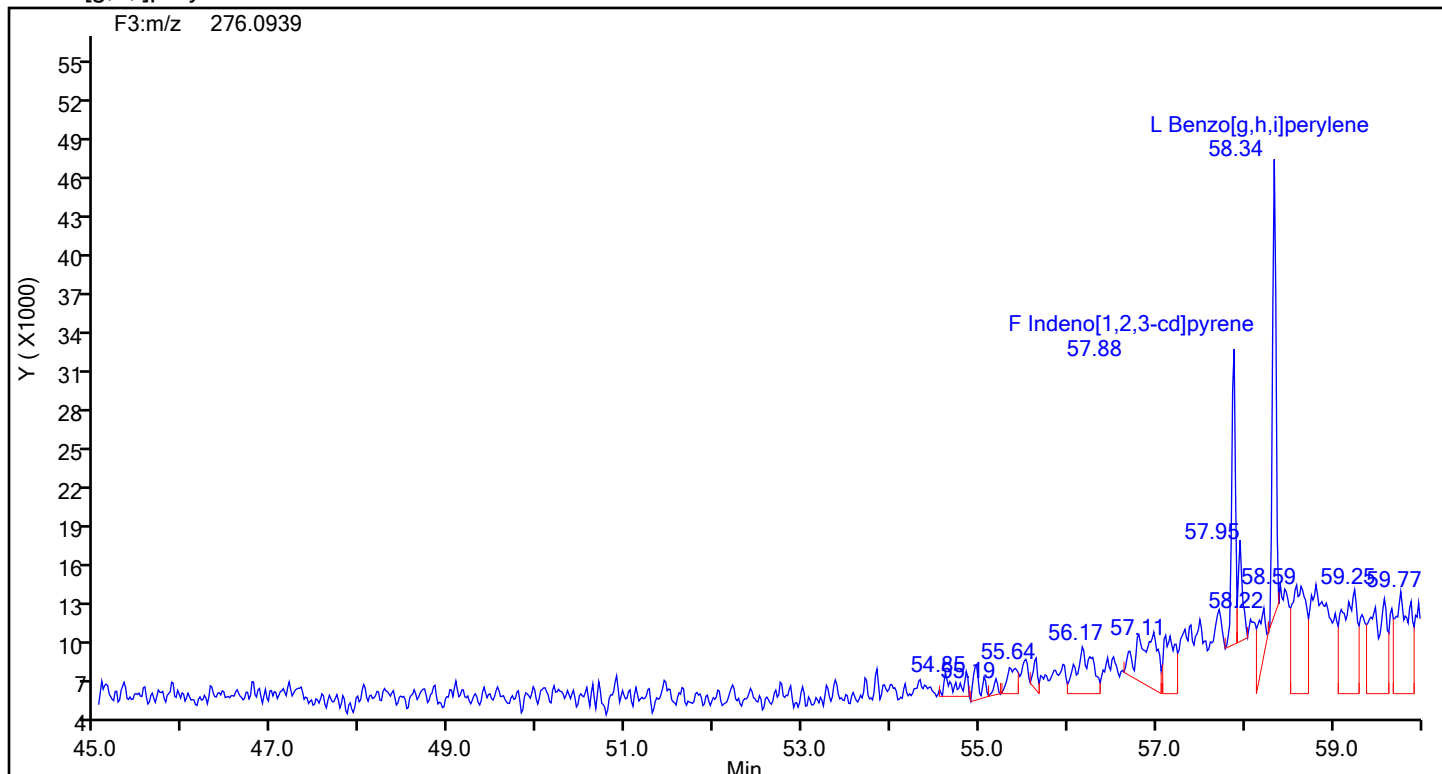
Worklist#: 88561

Sample Line#: 8

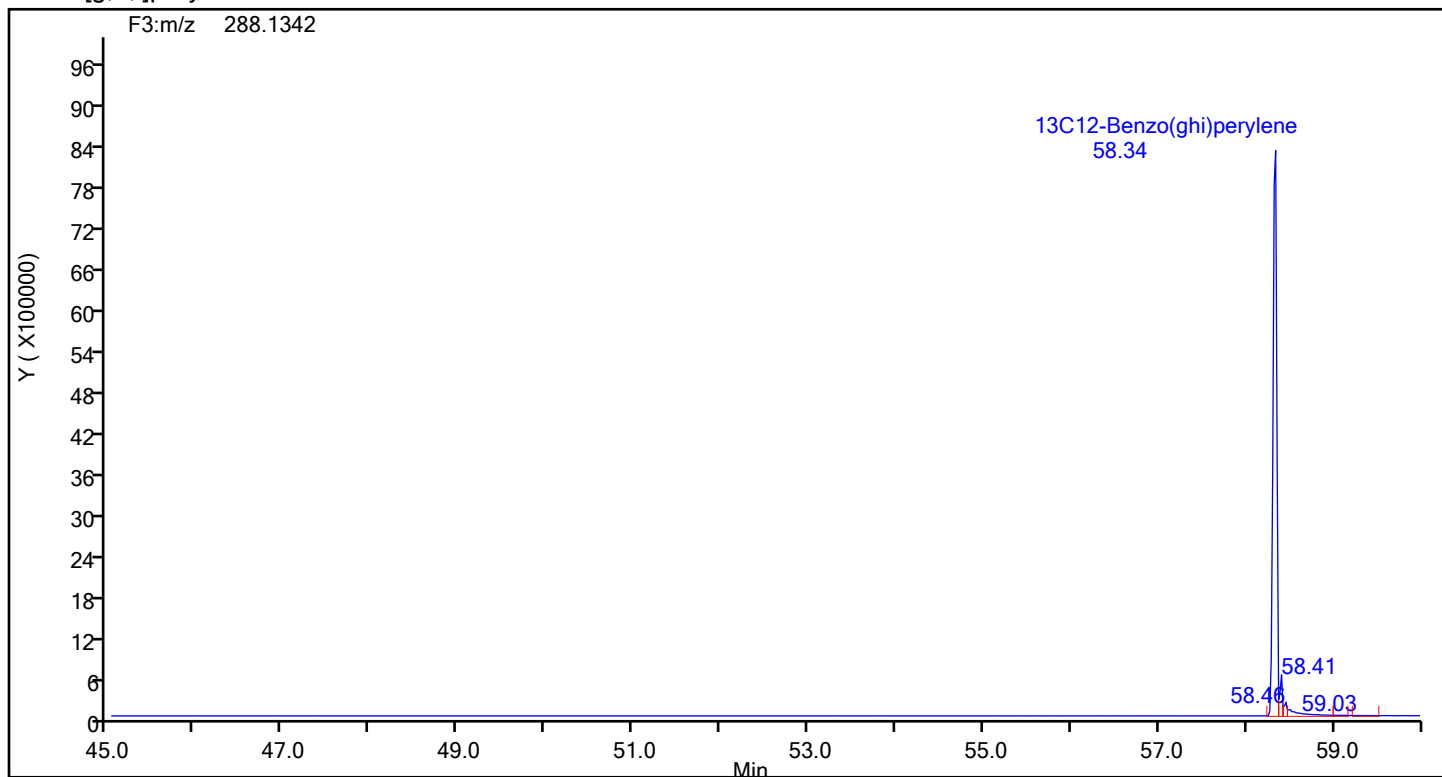
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



## Eurofins Knoxville

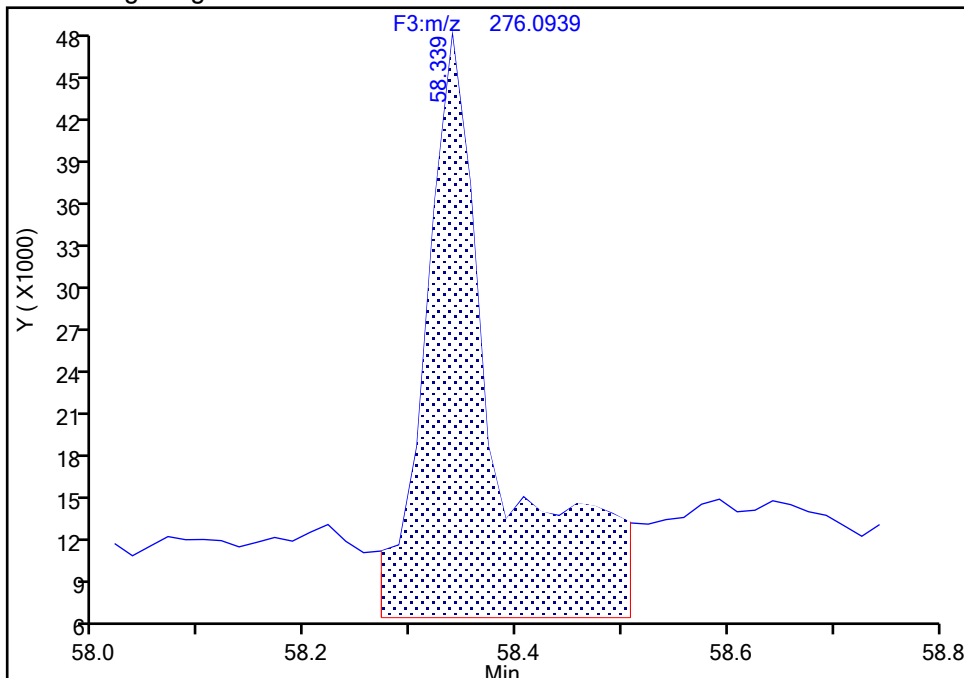
Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d		
Injection Date:	10-Jul-2024 15:12:00	Instrument ID:	D3PAH
Lims ID:	MB 140-87620/21-B		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Worklist S
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Column:	Restek-5Sil MS 25um ( 0.25 mm)	Detector	F3(44.04 :59.98 )

Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

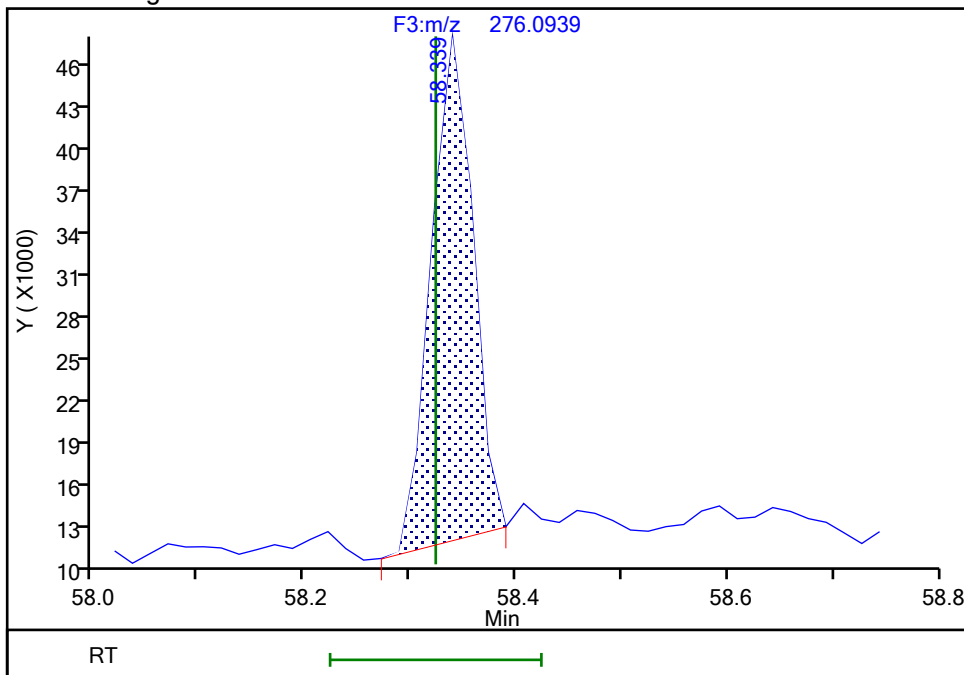
RT: 58.34  
Area: 191417  
Amount: 0.599951  
Amount Units: pg/ul

## Processing Integration Results



RT: 58.34  
Area: 96177  
Amount: 0.301444  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: TT6I, 11-Jul-2024 07:21:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

### Audit Reason: Incomplete Integration

Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\MB140-8762021-B.d  
Lims ID: MB 140-87620/21-B  
Client ID:  
Sample Type: MB  
Inject. Date: 10-Jul-2024 15:12:00      ALS Bottle#: 0      Worklist Smp#: 8  
Injection Vol: 1.0 ul      Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033436-008  
Operator ID: Xcalibur\_System      Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 11-Jul-2024 07:22:45      Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution      Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm)      Det: F1(6.03 :27.99 )  
Process Host: CTX1658

First Level Reviewer: TT6I	Date:	11-Jul-2024 07:22:45		
Compound	Amount Added	Amount Recovered	% Rec.	

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-87620/19-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>LCS140-8762019-B_2024071011534</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>07/10/2024 11:56</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88561</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	191.6		75.0	75.0	0.113
91-57-6	2-Methylnaphthalene	172.1		75.0	75.0	0.0598
208-96-8	Acenaphthylene	121.1		3.00	3.00	0.0686
83-32-9	Acenaphthene	133.3		30.0	30.0	0.0726
86-73-7	Fluorene	146.2		30.0	30.0	0.0928
85-01-8	Phenanthrene	160.0		6.00	6.00	0.195
120-12-7	Anthracene	124.5		30.0	30.0	0.172
206-44-0	Fluoranthene	133.9		6.00	6.00	0.0672
129-00-0	Pyrene	136.2		6.00	6.00	0.0679
56-55-3	Benzo[a]anthracene	168.2		6.00	6.00	0.0777
218-01-9	Chrysene	172.4		6.00	6.00	0.0771
205-99-2	Benzo[b]fluoranthene	135.5		30.0	30.0	0.0145
207-08-9	Benzo[k]fluoranthene	129.7		6.00	6.00	0.0136
192-97-2	Benzo[e]pyrene	137.3		6.00	6.00	0.0130
50-32-8	Benzo[a]pyrene	122.4		3.00	3.00	0.0118
198-55-0	Perylene	127.2		3.00	3.00	0.0141
193-39-5	Indeno[1,2,3-cd]pyrene	144.5		3.00	3.00	0.0113
53-70-3	Dibenz(a,h)anthracene	139.8		6.00	6.00	0.00939
191-24-2	Benzo[g,h,i]perylene	136.4		6.00	6.00	0.0101

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-87620/19-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>LCS140-8762019-B_2024071011534</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>07/10/2024 11:56</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88561</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	66		20-130
STL03357	13C6-2-Methylnaphthalene	69		20-130
189811-56-1	13C6-Acenaphthylene	101		20-130
189811-57-2	13C6-Acenaphthene	90		20-130
STL00616	13C6-Fluorene	96		20-130
1397194-60-3	13C6-Fluoranthrene	91		20-130
1397214-90-2	13C3-Pyrene	86		20-130
917378-11-1	13C6-Benzo (a) anthracene	96		20-130
1397177-72-8	13C6-Chrysene	93		20-130
STL03358	13C6-Benzo (b) fluoranthene	93		20-130
1397194-60-3	13C6-Benzo (k) fluoranthene	84		20-130
STL03382	13C4-Benzo (e) pyrene	85		20-130
STL03359	13C4-Benzo (a) pyrene	84		20-130
1520-96-3	Perylene-d12	74		20-130
362044-56-2	13C6-Indeno (1,2,3-cd) pyrene	114		20-130
STL03360	13C6-Dibenz (a,h) anthracene	109		20-130
350820-11-0	13C12-Benzo (ghi) perylene	90		20-130
189811-60-7	13C6-Anthracene	99		20-130
1189955-53-0	13C6-Phenanthrene	81		20-130



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B\_20240710115341.d  
Lims ID: LCS 140-87620/19-B  
Client ID:  
Sample Type: LCS  
Inject. Date: 10-Jul-2024 11:56:00 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033436-002  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 10-Jul-2024 20:33:23 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1658

First Level Reviewer: TT6I

Date: 11-Jul-2024 07:06:30

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:21	31229151		3.3746	65.9	65.9	0.0107	0.0107	65.91	
Naphthalene	11:21	51416339		1.2893	127.7	127.7	0.0754	0.0754	128	
D 13C6-2-Methylnaphthalene	13:45	15630308		1.6031	69.4	69.4	0.0106	0.0106	69.45	
2-Methylnaphthalene	13:45	22931281		1.2786	114.7	114.7	0.0398	0.0398	115	
D 13C6-Acenaphthylene	16:35	23460803		1.6520	101.1	101.1	0.0155	0.0155	101	
Acenaphthylene	16:35	23573102		2.3661	80.8	80.8	0.0457	0.0457	80.75	
* Acenaphthene-d10	17:10	7020076		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:16	12337065		0.9792	89.7	89.7	0.0229	0.0229	89.74	
Acenaphthene	17:17	13917108		1.2697	88.8	88.8	0.0484	0.0484	88.85	
D 13C6-Fluorene	19:32	11980269		0.8898	95.9	95.9	0.0230	0.0230	95.89	
Fluorene	19:33	14635000		1.2532	97.5	97.5	0.0618	0.0618	97.48	
D 13C6-Phenanthrene	24:52	17177882		0.5724	81.3	81.3	0.0205	0.0205	81.34	
Phenanthrene	24:52	20236683		1.1044	106.7	106.7	0.1301	0.1301	107	
D 13C6-Anthracene	25:12	16487361		0.4523	98.8	98.8	0.0259	0.0259	98.79	
Anthracene	25:12	18597379		1.3586	83.0	83.0	0.1147	0.1147	83.03	
D 13C6-Fluoranthrene	33:33	40068150		1.1994	90.6	90.6	0.0204	0.0204	90.55	
Fluoranthene	33:34	41187864		1.1513	89.3	89.3	0.0448	0.0448	89.28	
* Pyrene-d10	35:06	18446767		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:15	43025422		1.3512	86.3	86.3	0.0182	0.0182	86.31	
Pyrene	35:15	41625719		1.0652	90.8	90.8	0.0452	0.0452	90.82	
D 13C6-Benzo(a)anthracene	45:45	42640618		1.5189	95.9	95.9	0.0122	0.0122	95.87	
Benzo[a]anthracene	45:45	46575703		0.9739	112.2	112.2	0.0518	0.0518	112	
D 13C6-Chrysene	46:01	44164872		1.6287	92.6	92.6	0.0113	0.0113	92.61	
Chrysene	46:01	49807080		0.9815	114.9	114.9	0.0514	0.0514	115	
D 13C6-Benzo(b)fluoranthene	54:26	39973863		1.4621	93.4	93.4	0.004317	0.004317	93.37	
Benzo[b]fluoranthene	54:27	40610310		1.1249	90.3	90.3	0.009636	0.009636	90.31	
Benzo[k]fluoranthene	54:35	41985975		1.1271	86.4	86.4	0.009044	0.009044	86.44	
D 13C6-Benzo(k)fluoranthene	54:34	43094218		1.7507	84.1	84.1	0.003605	0.003605	84.07	
* Benzo(e)pyrene-d12	55:20	14640706		5.7E+04	50.0	50.0				
Benzo[e]pyrene	55:26	37319252		1.0013	91.5	91.5	0.008690	0.008690	91.54	
D 13C4-Benzo(e)pyrene	55:25	40718534		1.6368	85.0	85.0	0.005551	0.005551	84.96	
D 13C4-Benzo(a)pyrene	55:34	37930627		1.5508	83.5	83.5	0.005859	0.005859	83.53	
Benzo[a]pyrene	55:34	34453989		1.1130	81.6	81.6	0.007868	0.007868	81.61	
D Perylene-d12	55:45	25889674		1.1917	74.2	74.2	0.007038	0.007038	74.19	
Perylene	55:49	31400355		1.4307	84.8	84.8	0.009368	0.009368	84.77	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Indeno(1,2,3-cd)pyrene	57:54	34004776		1.0218	113.6	113.6	0.0105	0.0105	114	
Indeno[1,2,3-cd]pyrene	57:54	36842073		1.1249	96.3	96.3	0.007505	0.007505	96.31	
D 13C6-Dibenz(a,h)anthracene	57:58	33575472		1.0553	108.7	108.7	0.008355	0.008355	109	
Dibenz(a,h)anthracene	57:59	35404993		1.1314	93.2	93.2	0.006258	0.006258	93.20	
D 13C12-Benzo(ghi)perylene	58:21	33445864		1.2749	89.6	89.6	0.001872	0.001872	89.59	
Benzo[g,h,i]perylene	58:22	39056634		1.2838	91.0	91.0	0.006747	0.006747	90.96	

## QC Flag Legend

Processing Flags

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B\_20240710115341.d  
Lims ID: LCS 140-87620/19-B  
Client ID:  
Sample Type: LCS  
Inject. Date: 10-Jul-2024 11:56:00 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033436-002  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 10-Jul-2024 20:33:23 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1658

First Level Reviewer: TT6I

Date: 11-Jul-2024 07:06:30

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:21	11:20	-1	0.661	31229151	10812964	729	1822	14833		
Naphthalene											
128.0626	11:21	11:18	0	1.001	51416339	18103966	4204	10510	4306		
13C6-2-Methylnaphthalene											
148.0984	13:45	13:43	1	0.801	15630308	7580303	344	860	22036		
2-Methylnaphthalene											
142.0783	13:45	13:42	1	1.000	22931281	10642788	1545	3862	6889		
13C6-Acenaphthylene											
158.0828	16:35	16:33	1	0.967	23460803	8924621	520	1300	17163		E
Acenaphthylene											
152.0626	16:35	16:35	1	1.000	23573102	8766448	1908	4770	4595		
Acenaphthene-d10											
164.1404	17:10	17:08	1		7020076	2532295	189	472	13398		
13C6-Acenaphthene											
160.0984	17:16	17:14	1	1.007	12337065	4411178	454	1135	9716		
Acenaphthene											
154.0783	17:17	17:14	1	1.001	13917108	4853784	1085	2712	4474		
13C6-Fluorene											
172.0984	19:32	19:29	1	1.139	11980269	3744174	414	1035	9044		
Fluorene											
166.0783	19:33	19:30	1	1.001	14635000	4470635	1161	2902	3851		
13C6-Phenanthrene											
184.0984	24:52	24:49	2	0.708	17177882	4139742	332	830	12469		
Phenanthrene											
178.0783	24:52	24:49	1	1.000	20236683	4988564	2379	5947	2097		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Anthracene											
184.0984	25:12	25:08	2	0.718	16487361	3816662	332	830	11496		
Anthracene											
178.0783	25:12	25:09	1	1.000	18597379	4279692	2379	5947	1799		
13C6-Fluoranthrene											
208.0984	33:33	33:30	1	0.956	40068150	8186686	695	1737	11779		
Fluoranthene											
202.0783	33:34	33:31	1	1.000	41187864	8412869	1688	4220	4984		
Pyrene-d10											
212.1404	35:06	35:05	1		18446767	3543345	209	522	16954		
13C3-Pyrene											
205.0883	35:15	35:10	2	1.004	43025422	8755379	697	1742	12562		
Pyrene											
202.0783	35:15	35:12	1	1.000	41625719	8402243	1688	4220	4978		
13C6-Benzo(a)anthracene											
234.1140	45:45	45:40	1	1.303	42640618	8022133	687	1717	11677		
Benzo[a]anthracene											
228.0939	45:45	45:42	1	1.000	46575703	8800172	1618	4045	5439		
13C6-Chrysene											
234.1140	46:01	45:57	1	1.311	44164872	8021002	687	1717	11675		
Chrysene											
228.0939	46:01	45:58	1	1.000	49807080	9224666	1618	4045	5701		
13C6-Benzo(b)fluoranthene											
258.1140	54:26	54:24	1	0.984	39973863	10857815	235	587	46203		
Benzo[b]fluoranthene											
252.0939	54:27	54:24	2	1.000	40610310	11235685	471	1177	23855		
Benzo[k]fluoranthene											
252.0939	54:35	54:32	2	1.000	41985975	11122021	471	1177	23614		
13C6-Benzo(k)fluoranthene											
258.1140	54:34	54:32	1	0.986	43094218	11547223	235	587	49137		
Benzo(e)pyrene-d12											
264.1692	55:20	55:19	1		14640706	4650269	312	780	14905		
Benzo[e]pyrene											
252.0939	55:26	55:24	2	1.000	37319252	12409321	471	1177	26347		
13C4-Benzo(e)pyrene											
256.1073	55:25	55:24	1	1.002	40718534	13527157	338	845	40021		
13C4-Benzo(a)pyrene											
256.1073	55:34	55:33	1	1.004	37930627	13440236	338	845	39764		
Benzo[a]pyrene											
252.0939	55:34	55:33	1	1.000	34453989	12037120	471	1177	25557		
Perylene-d12											
264.1692	55:45	55:43	2	1.008	25889674	8782316	312	780	28148		
Perylene											
252.0939	55:49	55:47	2	1.001	31400355	11335876	471	1177	24068		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:54	57:51	2	1.046	34004776	12615064	400	1000	31538		E

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
Indeno[1,2,3-cd]pyrene	276.0939	57:54	57:53	1	1.000	36842073	13583846	426	1065	31887	
13C6-Dibenz(a,h)anthracene	284.1296	57:58	57:56	1	1.047	33575472	11822051	328	820	36043	E
Dibenz(a,h)anthracene	278.1096	57:59	57:56	2	1.000	35404993	12701638	335	837	37915	
13C12-Benzo(ghi)perylene	288.1342	58:21	58:20	1	1.055	33445864	12296266	89	222	138160	
Benzo[g,h,i]perylene	276.0939	58:22	58:20	2	1.000	39056634	13201465	426	1065	30989	

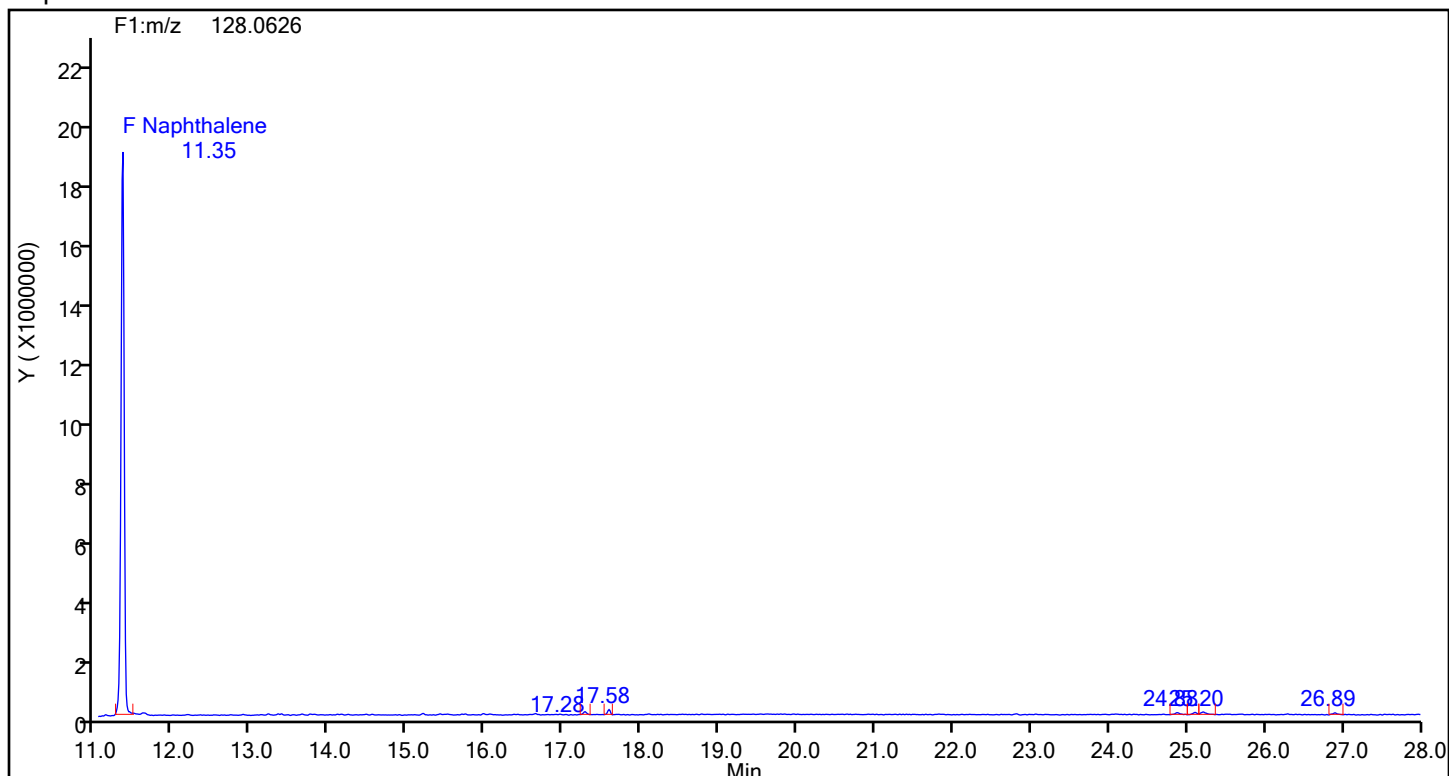
## QC Flag Legend

## Processing Flags

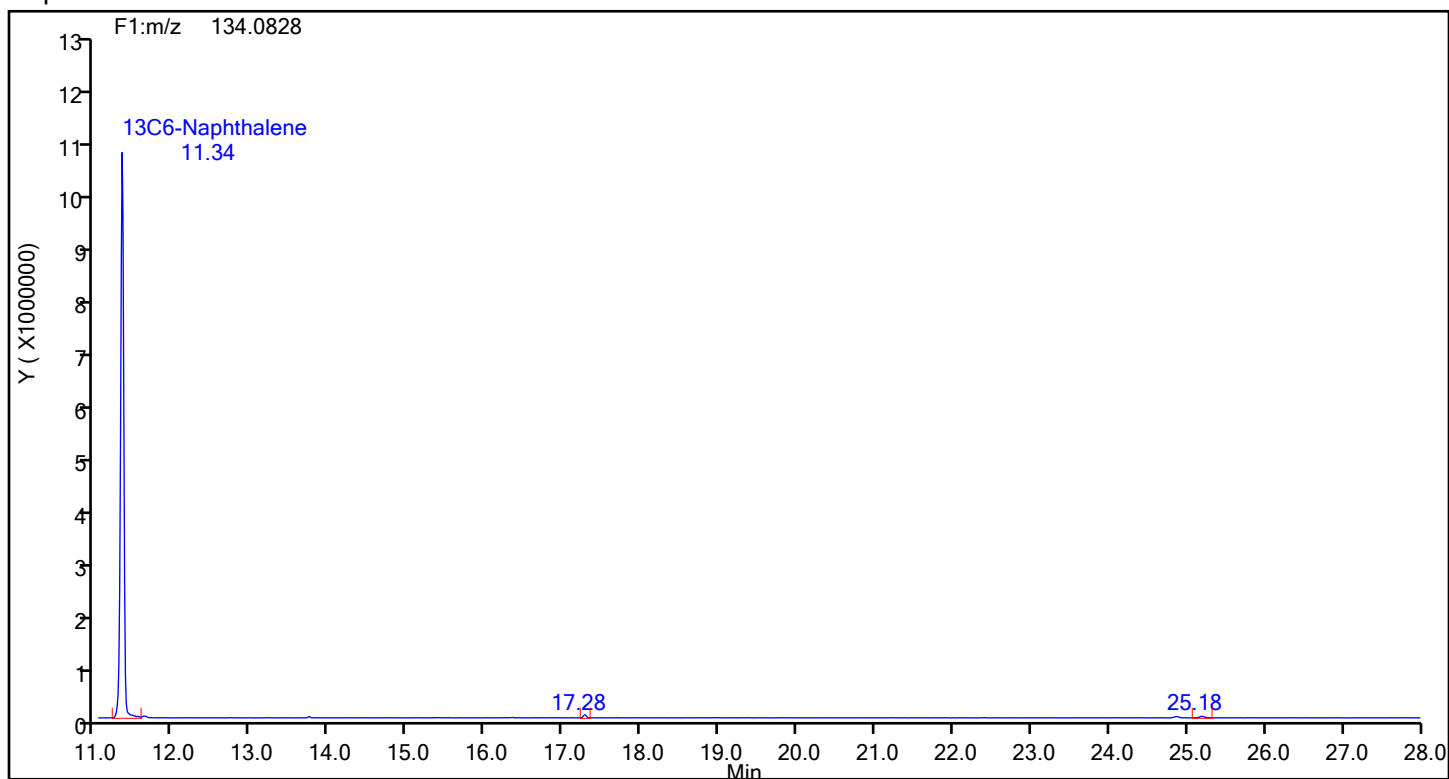
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B\_20240710115341.d  
Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards



Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B_20240710115341.d		
Injection Date:	10-Jul-2024 11:56:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	88561	Sample Line#:	2
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
2-Methylnaphthalene			

Chromatogram showing the separation of compounds. The x-axis represents time in minutes (Min), ranging from 11.0 to 28.0. The y-axis represents intensity, labeled Y (X1000000), ranging from 0 to 13. The major peak is labeled F 2-Methylnaphthalene at 13.74 minutes. Other labeled peaks include 13.22, 13.79, 14.01, 17.58, 19.59, 24.04, 25.26, 26.89, and 27.85.

Peak Label	Retention Time (Min)
13.22	13.22
13.74	13.74
13.79	13.79
14.01	14.01
17.58	17.58
19.59	19.59
24.04	24.04
25.26	25.26
26.89	26.89
27.85	27.85

F1:m/z 148.0984

13C6-2-Methylnaphthalene  
13.74

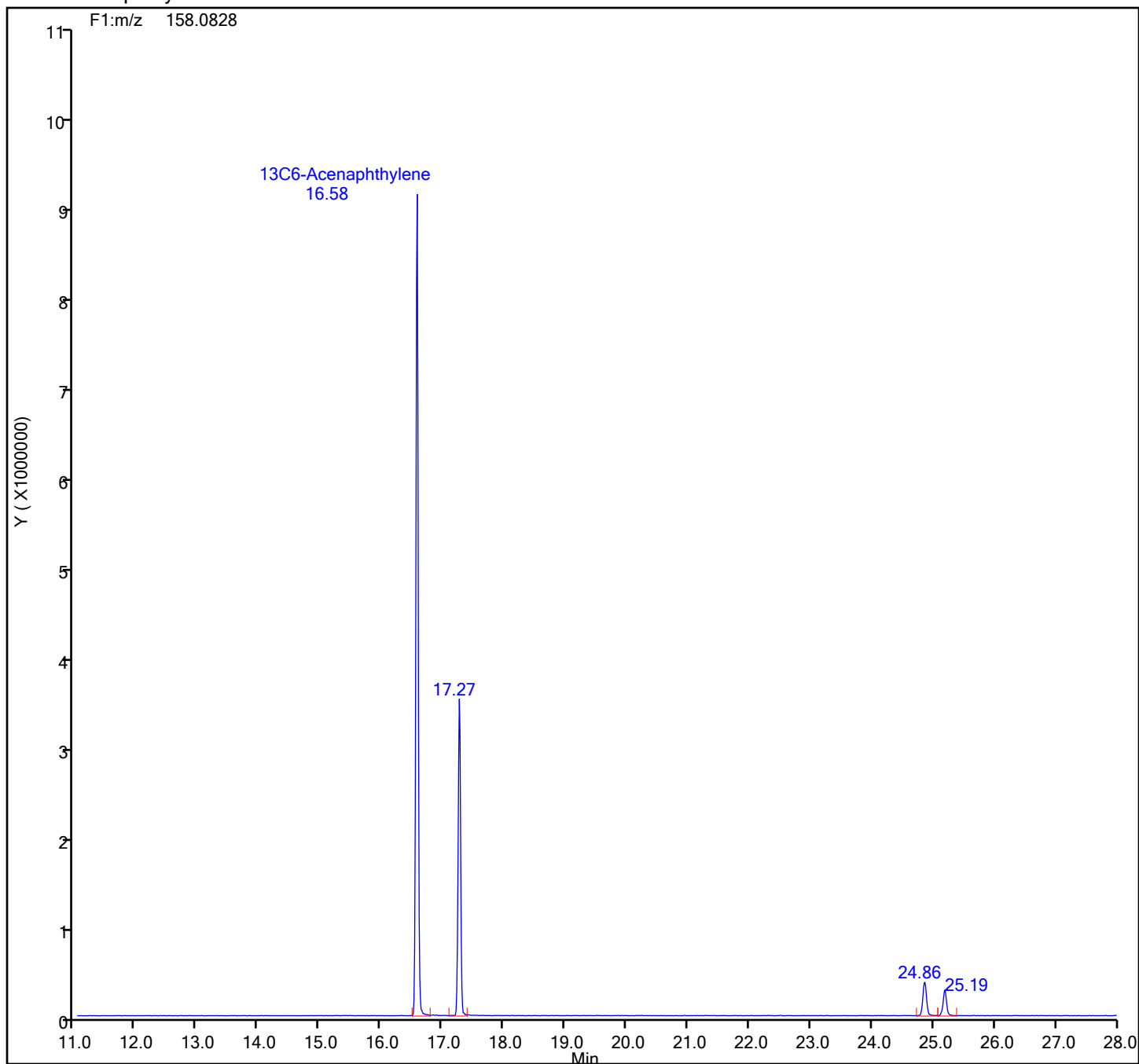
13.82

Y (X100000)

Min

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B\_20240710115341.d  
Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
13C6-Acenaphthylene Standards

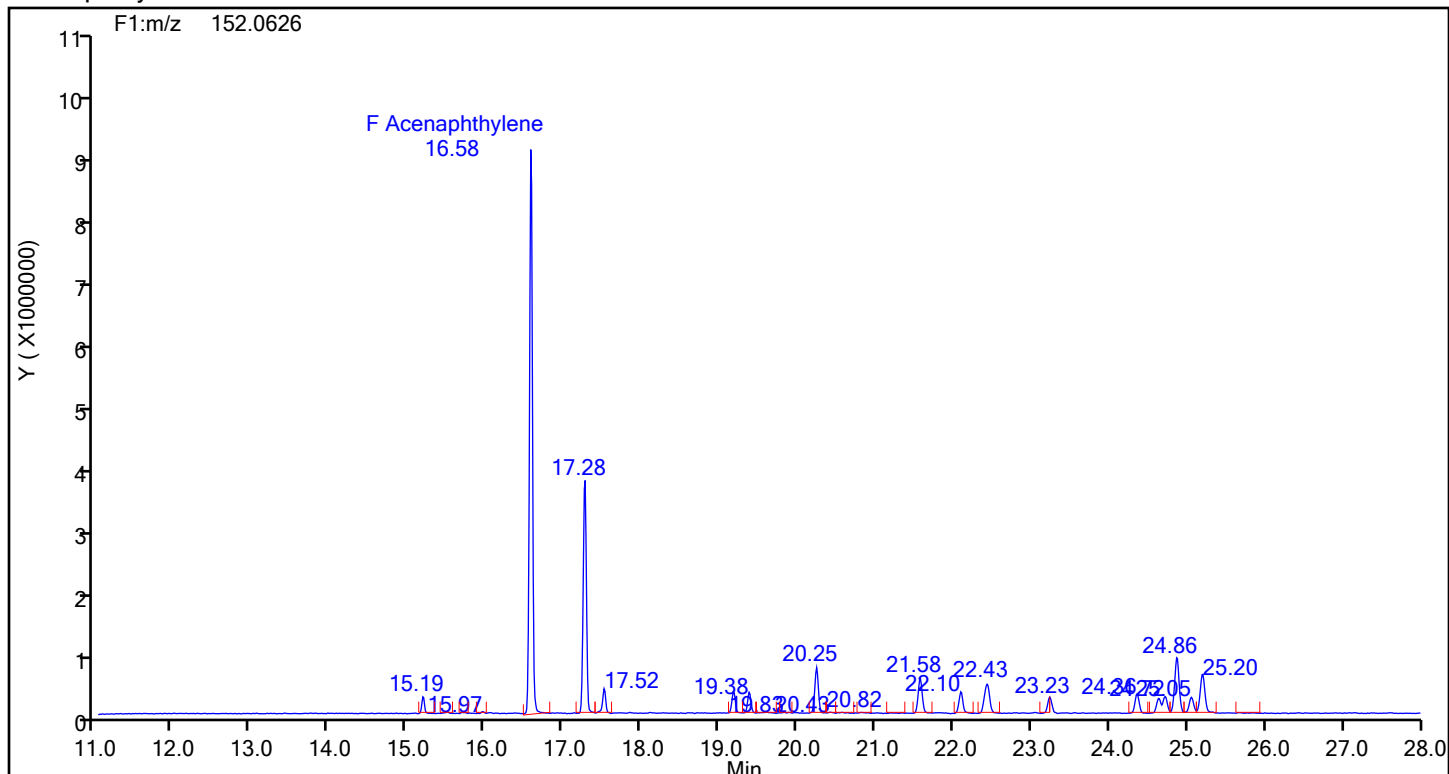




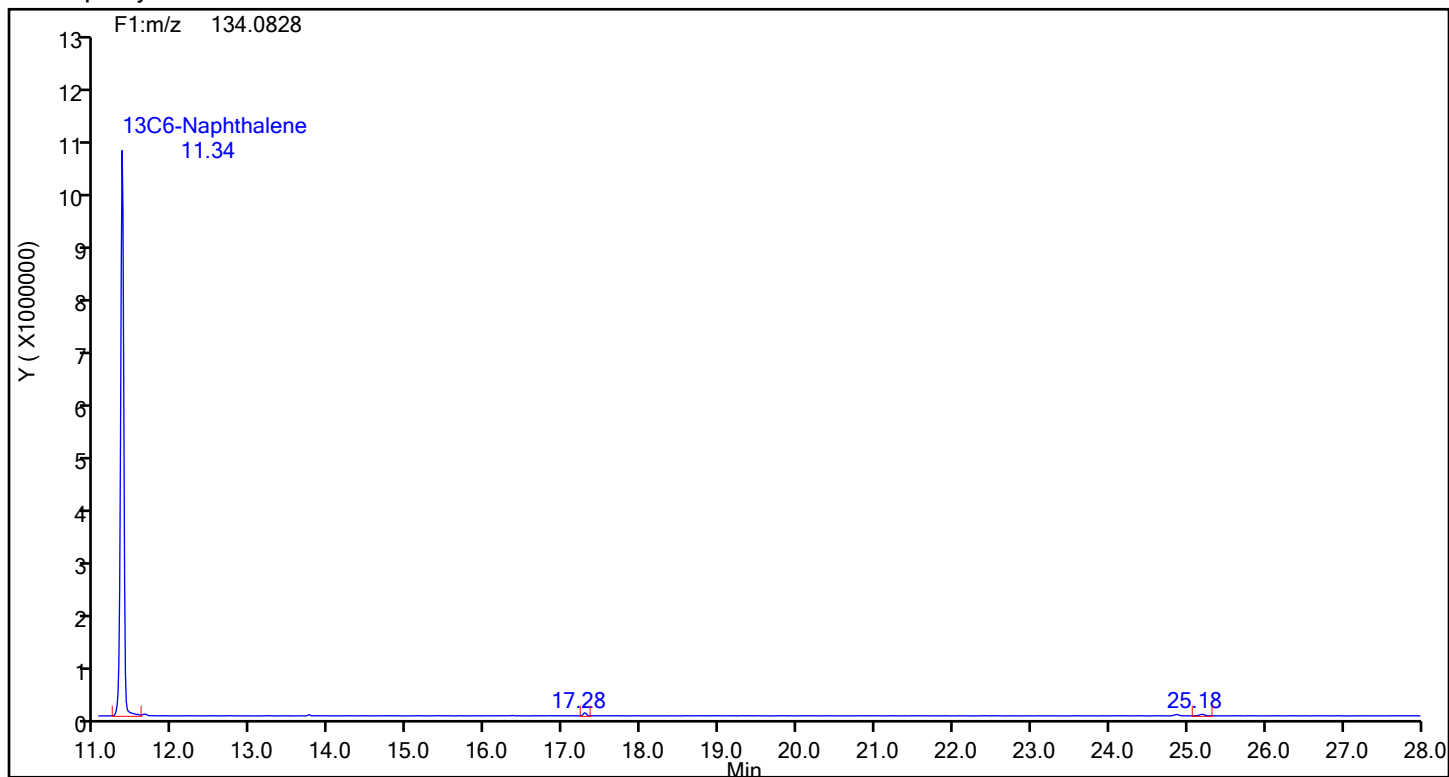
## Eurofins Knoxville

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Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



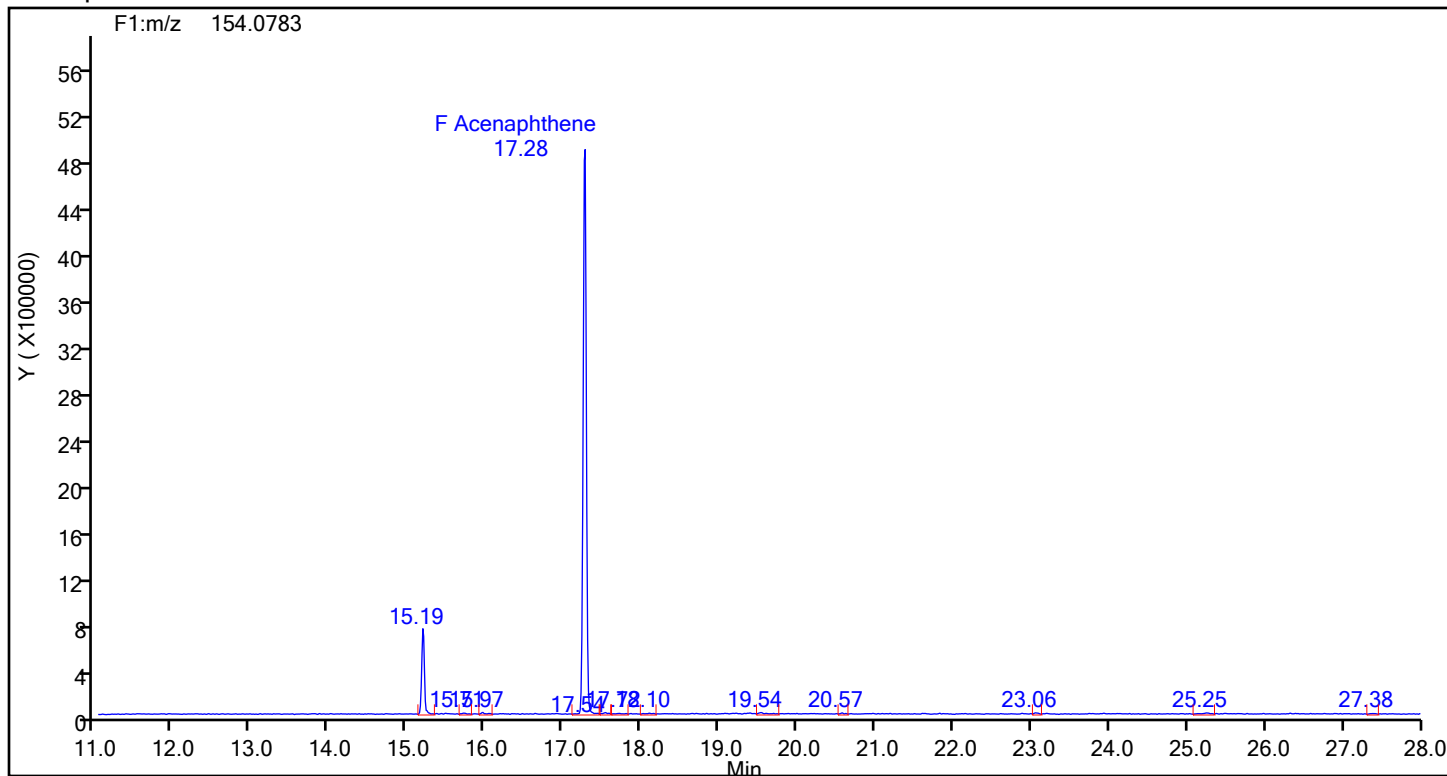
## Acenaphthylene Standards



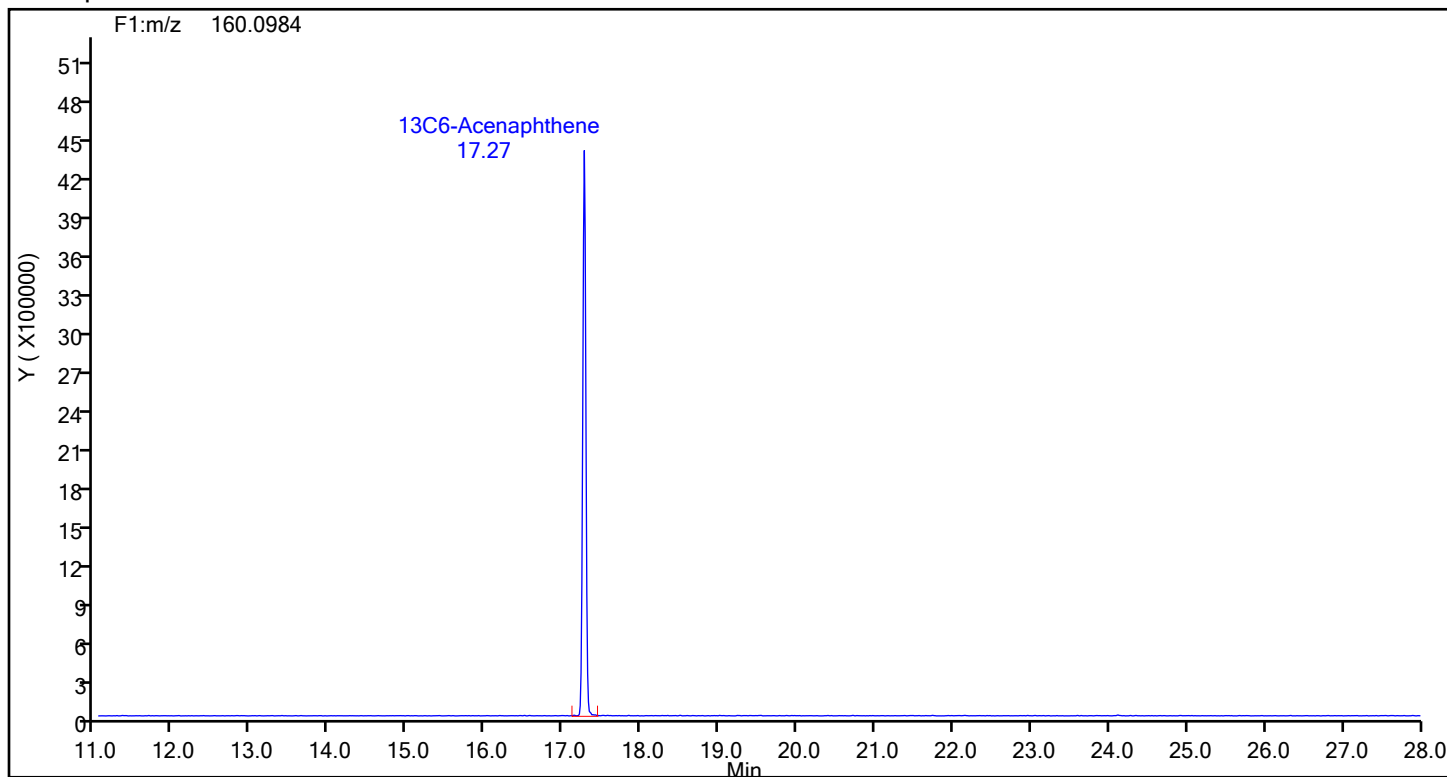
Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B_20240710115341.d		
Injection Date:	10-Jul-2024 11:56:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	88561	Sample Line#:	2
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Acenaphthene			

## Acenaphthene



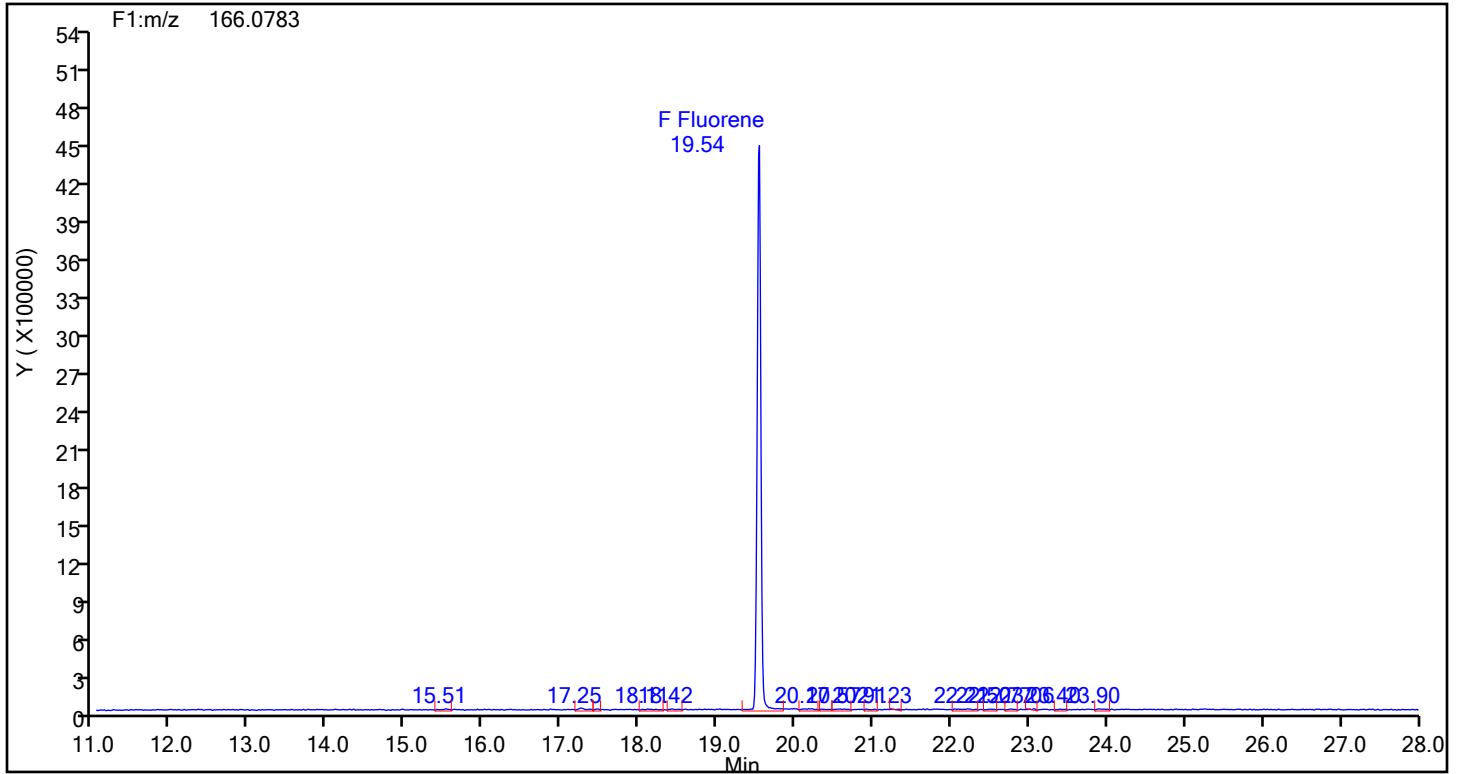
## Acenaphthene Standards



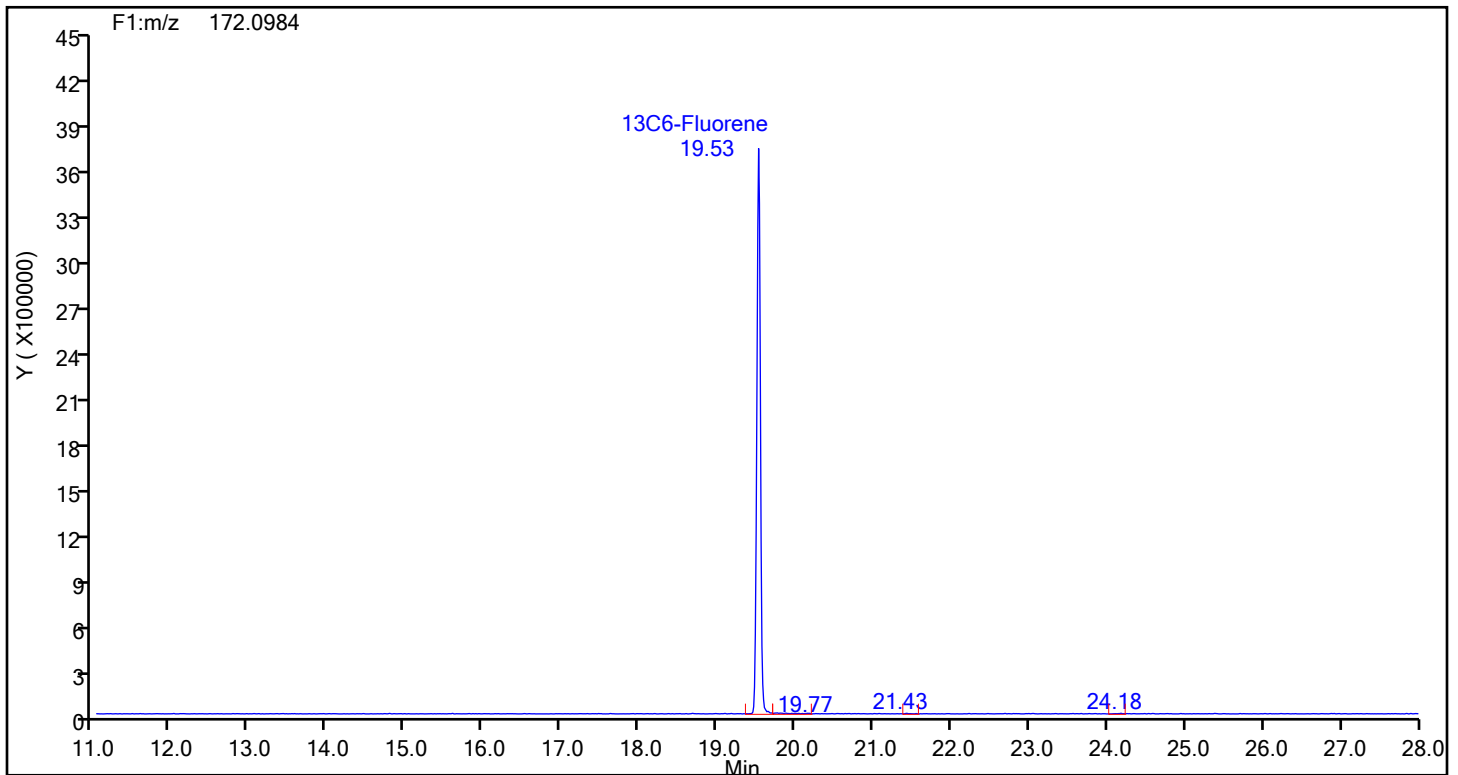
## Eurofins Knoxville

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Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Fluorene

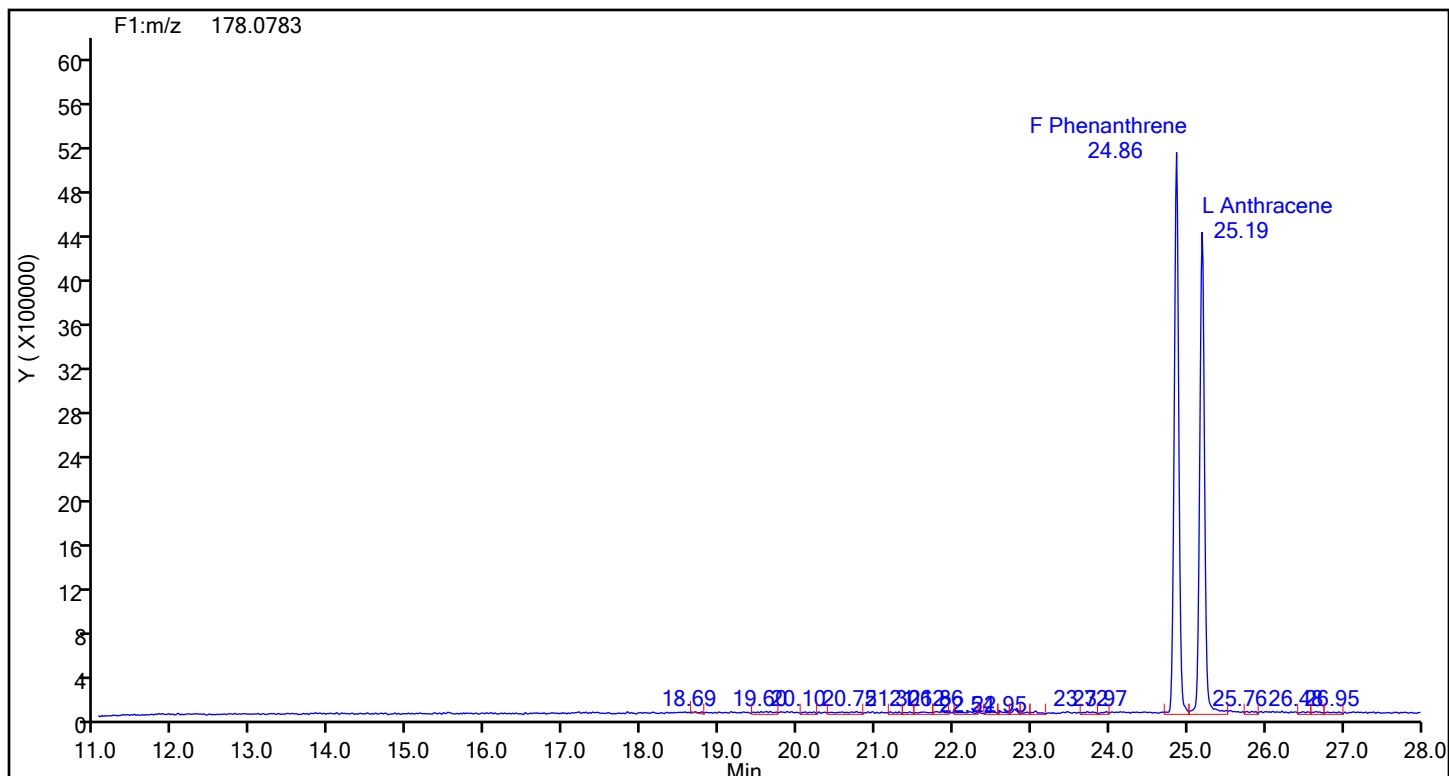


## Fluorene Standards

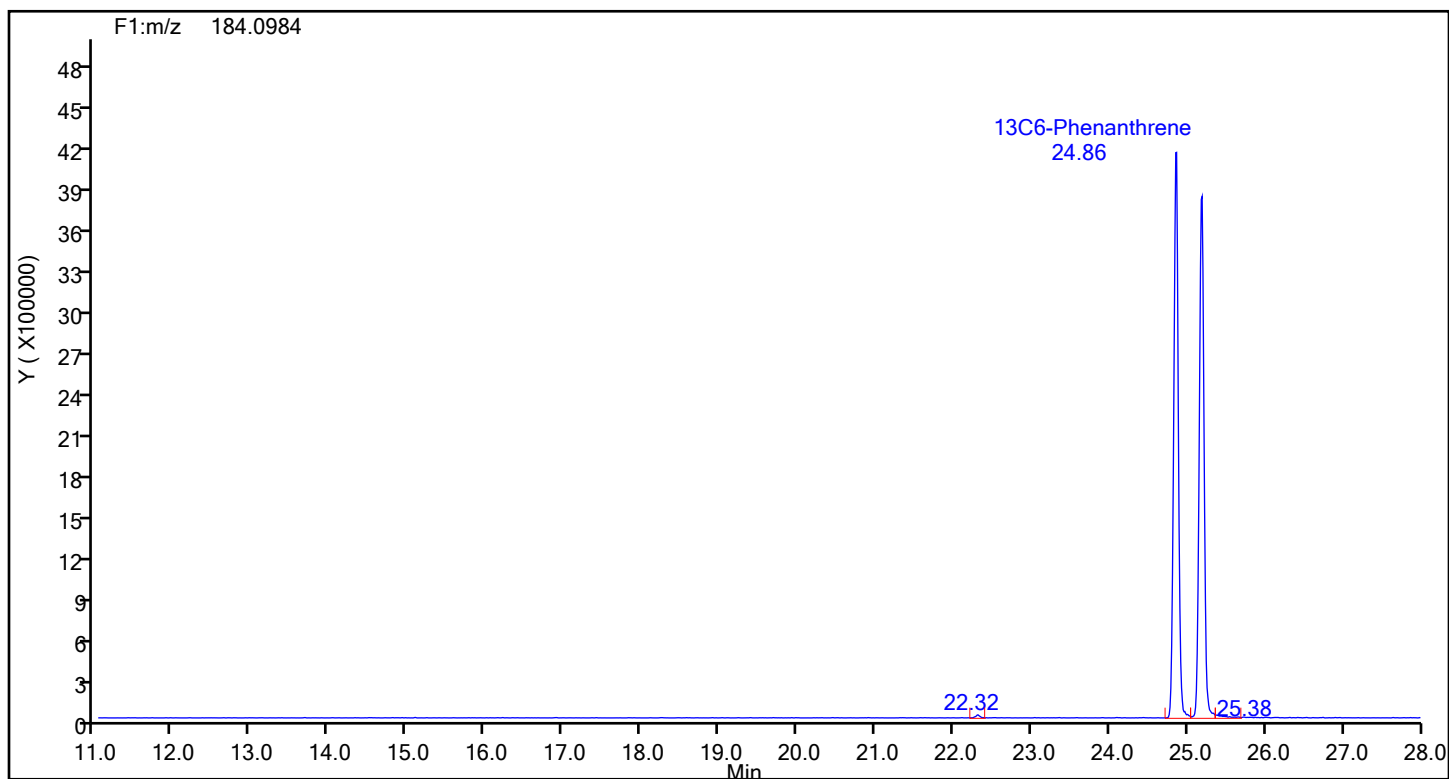


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B\_20240710115341.d  
Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRP AH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Phenanthrene

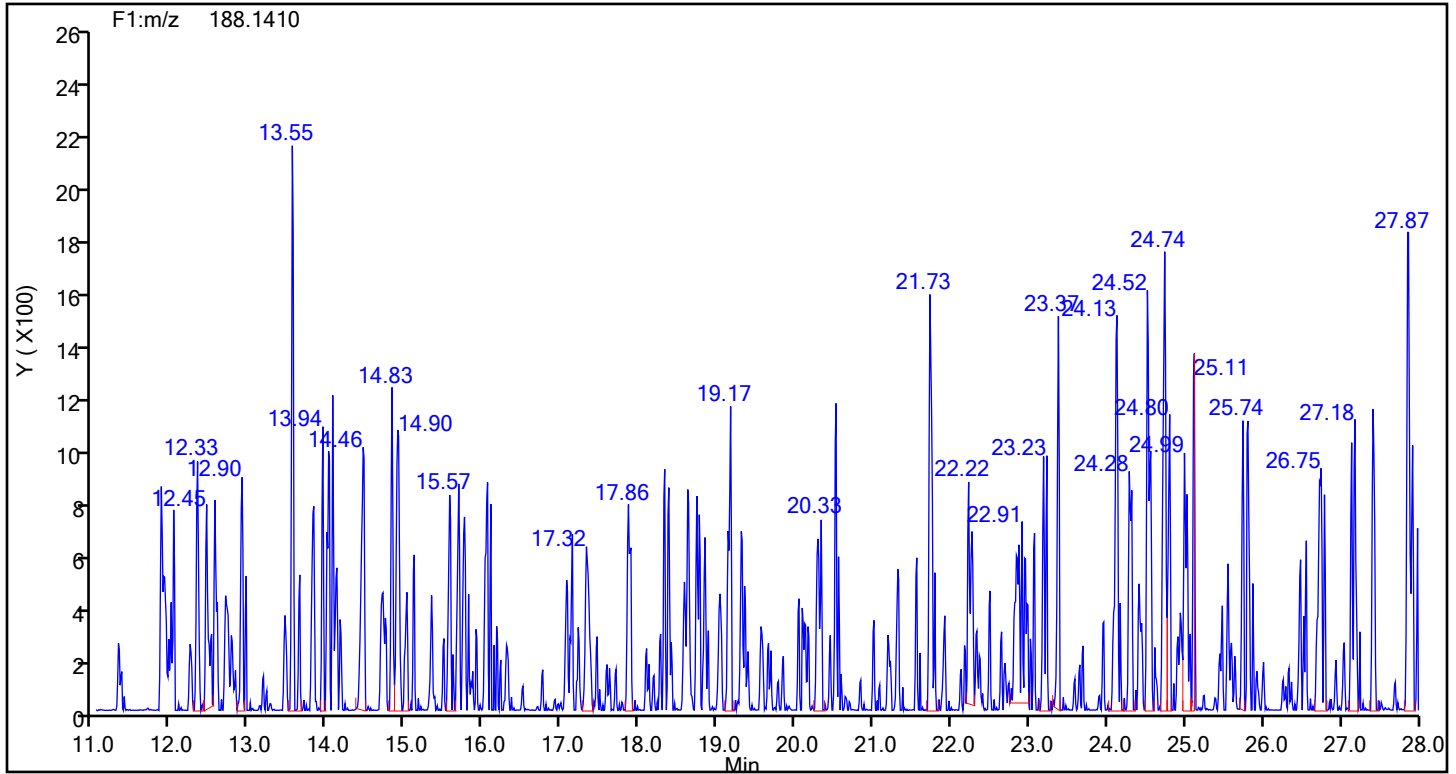


## Phenanthrene Standards

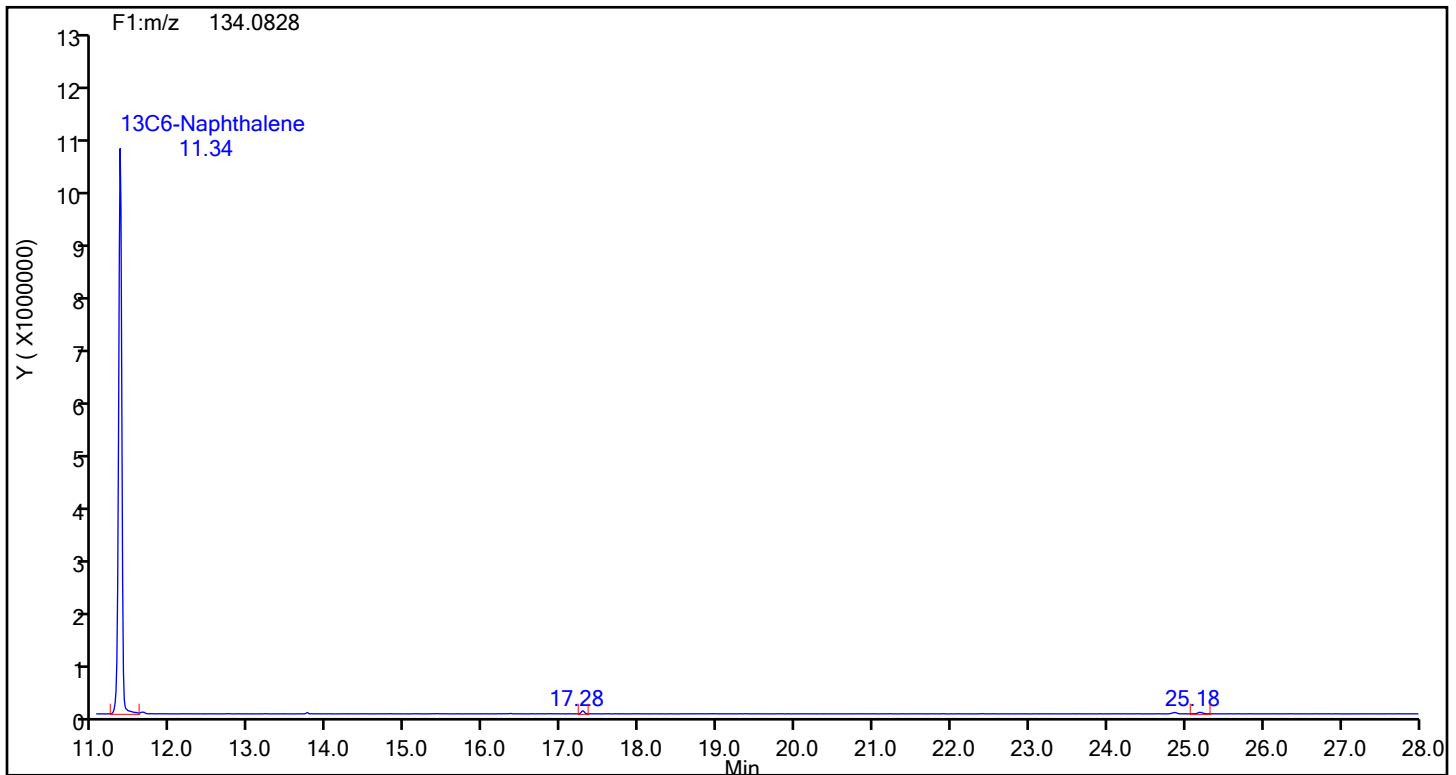


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B\_20240710115341.d  
Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

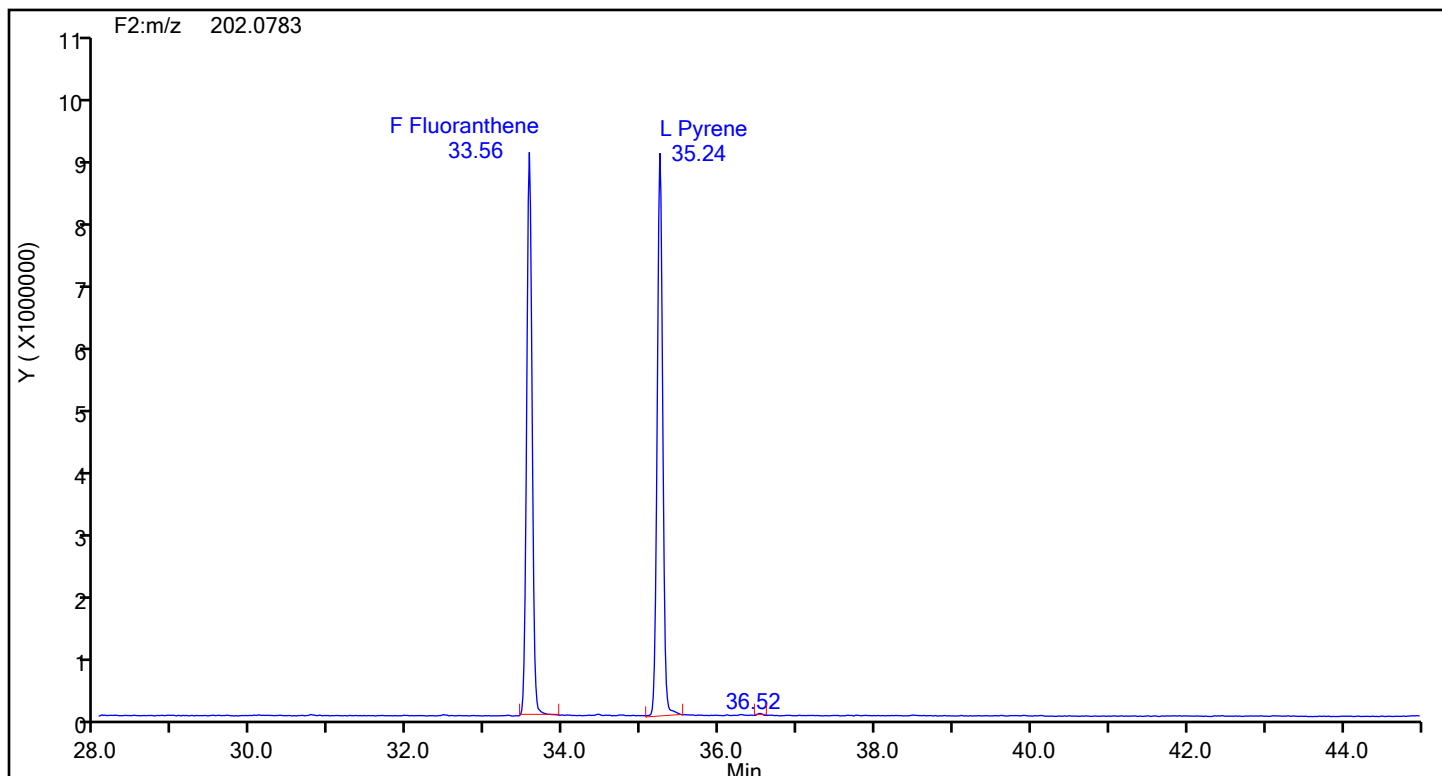


## Anthracin-d10 Standards

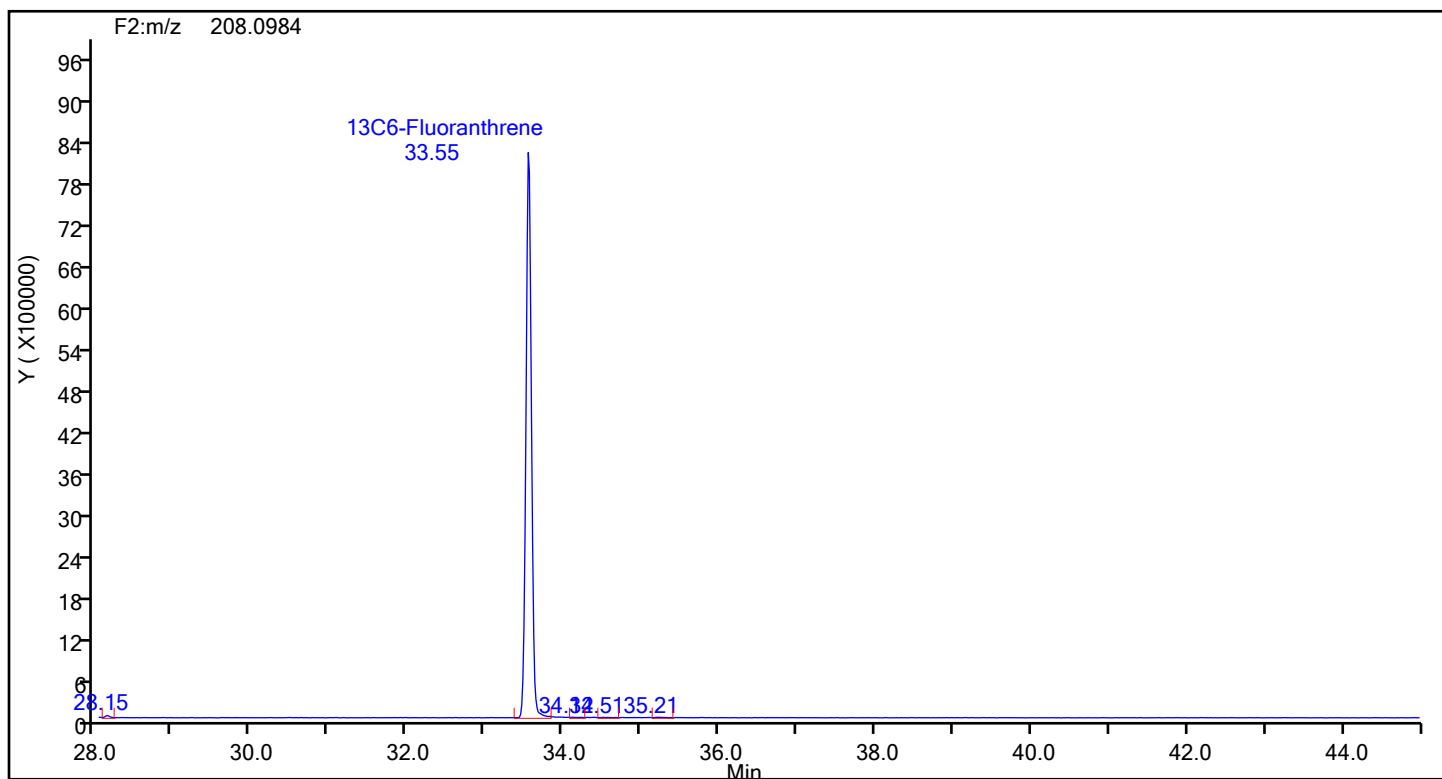


## Eurofins Knoxville

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Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



## Fluoranthene Standards



Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B_20240710115341.d		
Injection Date:	10-Jul-2024 11:56:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	88561	Sample Line#:	2
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
Pyrene			

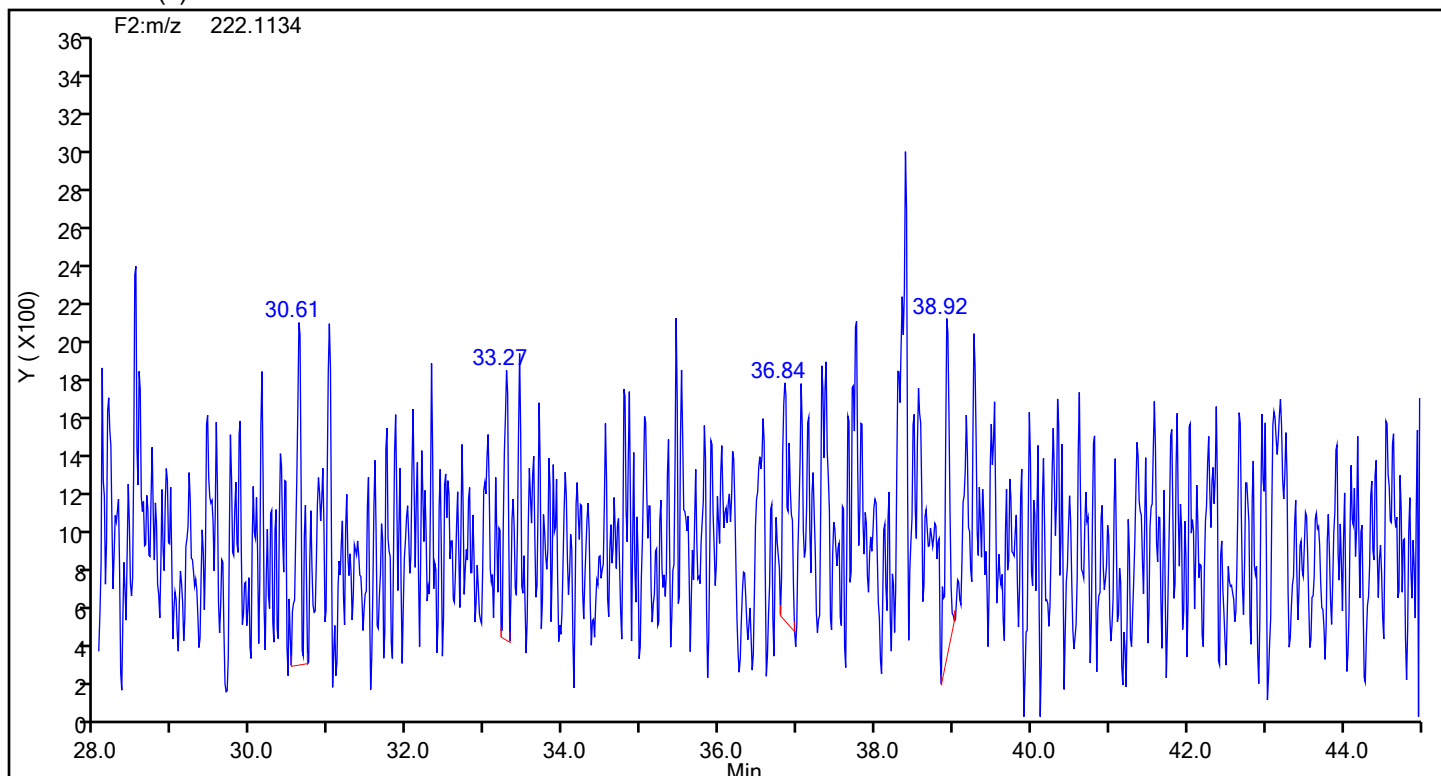
The chromatogram displays two prominent peaks. The first peak is labeled 'F Fluoranthene' with a retention time of 33.56 minutes. The second peak is labeled 'L Pyrene' with a retention time of 35.24 minutes. A third, much smaller peak is labeled '36.52' at its retention time. The y-axis is labeled 'Y (X1000000)' and ranges from 0 to 11. The x-axis is labeled 'Min' and ranges from 28.0 to 44.0. The text 'F2:m/z 202.0783' is located in the top left corner of the plot area.

Peak Label	Retention Time (Min)
F Fluoranthene	33.56
L Pyrene	35.24
Unlabeled	36.52

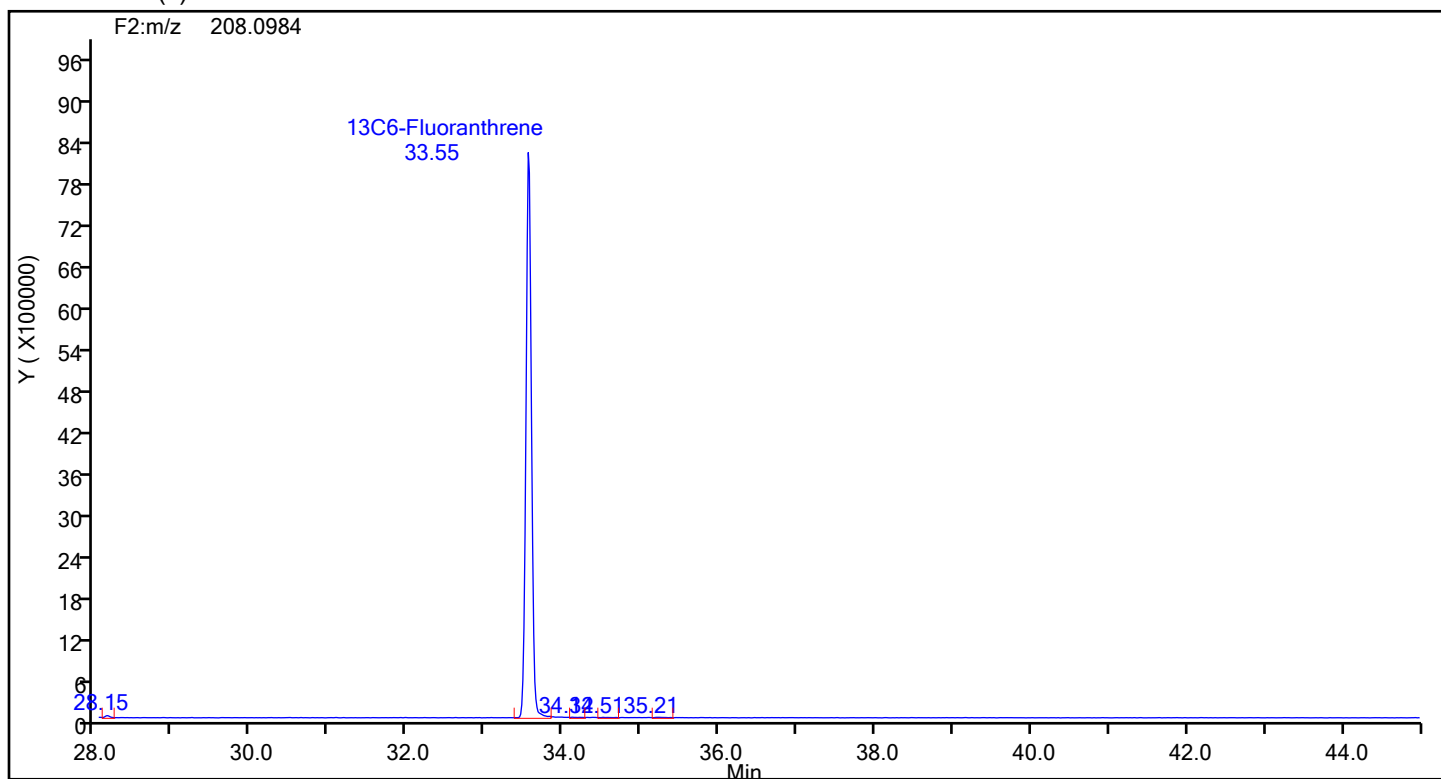
Chromatogram showing a major peak at 35.24 minutes labeled  $^{13}\text{C}_3$ -Pyrene. The y-axis is Y (X1000000) and the x-axis is Min. Other labeled peaks are at 28.57, 30.19, 33.58, 34.05, and 35.72 minutes.

Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B_20240710115341.d		
Injection Date:	10-Jul-2024 11:56:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	88561	Sample Line#:	2
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm
13C6-Benzo(c)fluorene			



13C6-Benzo(c)fluorene Standards

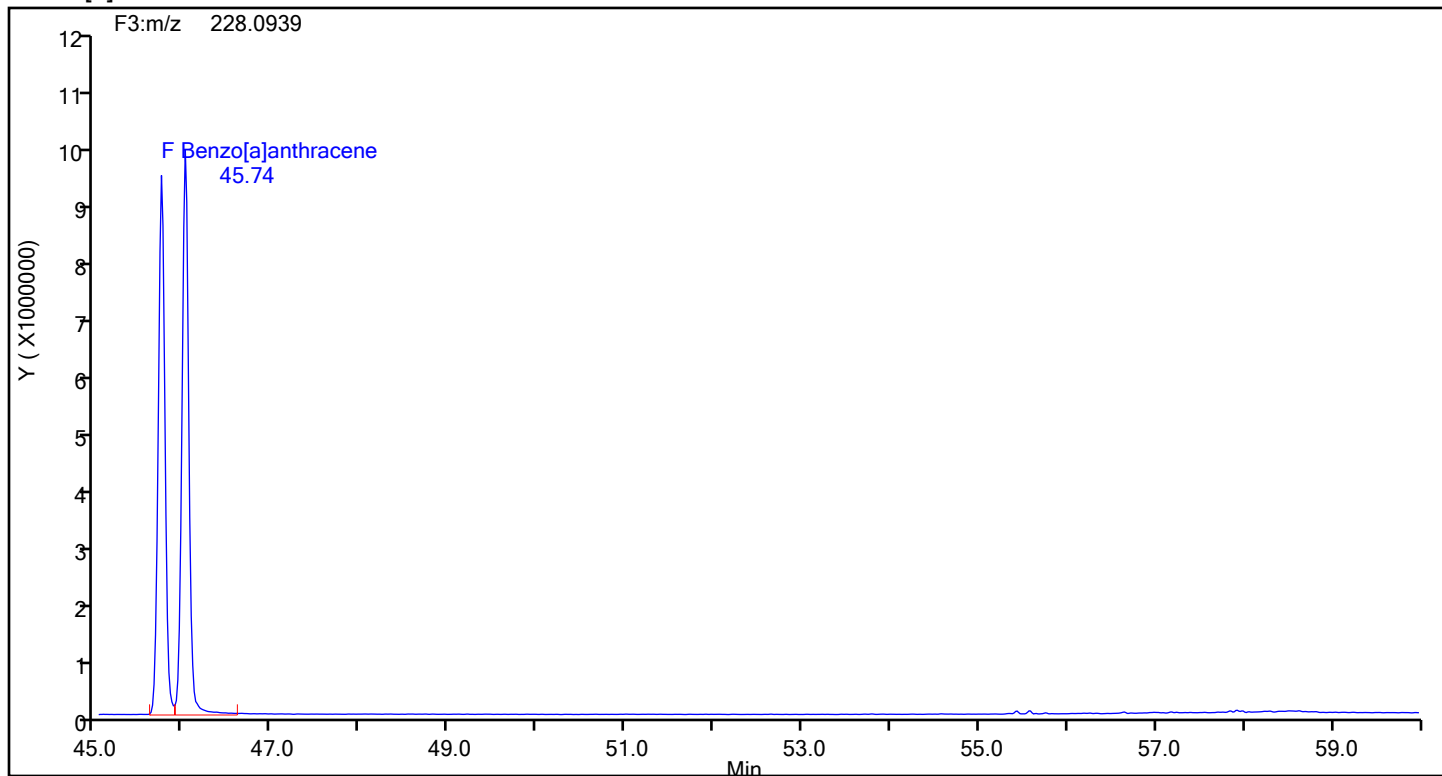




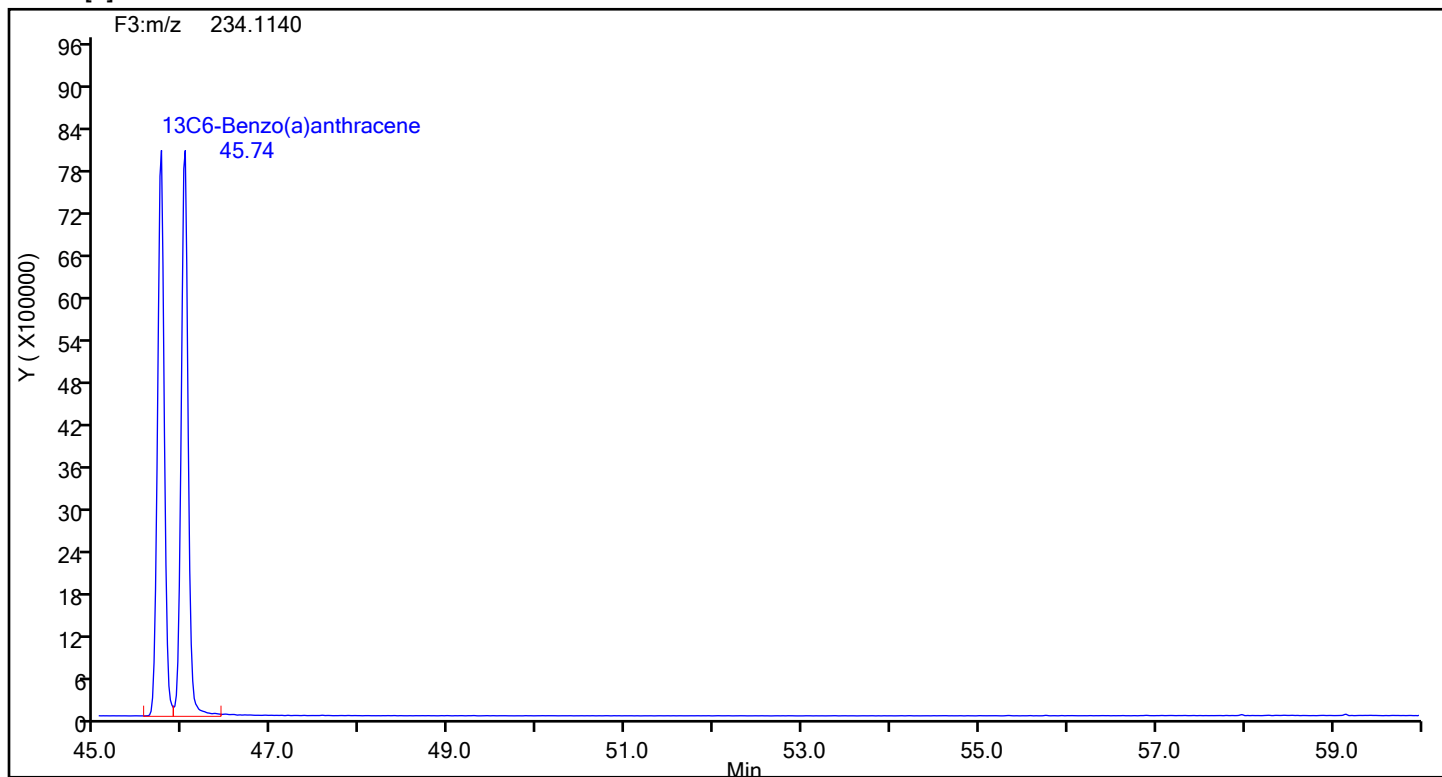
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B\_20240710115341.d  
Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[a]anthracene



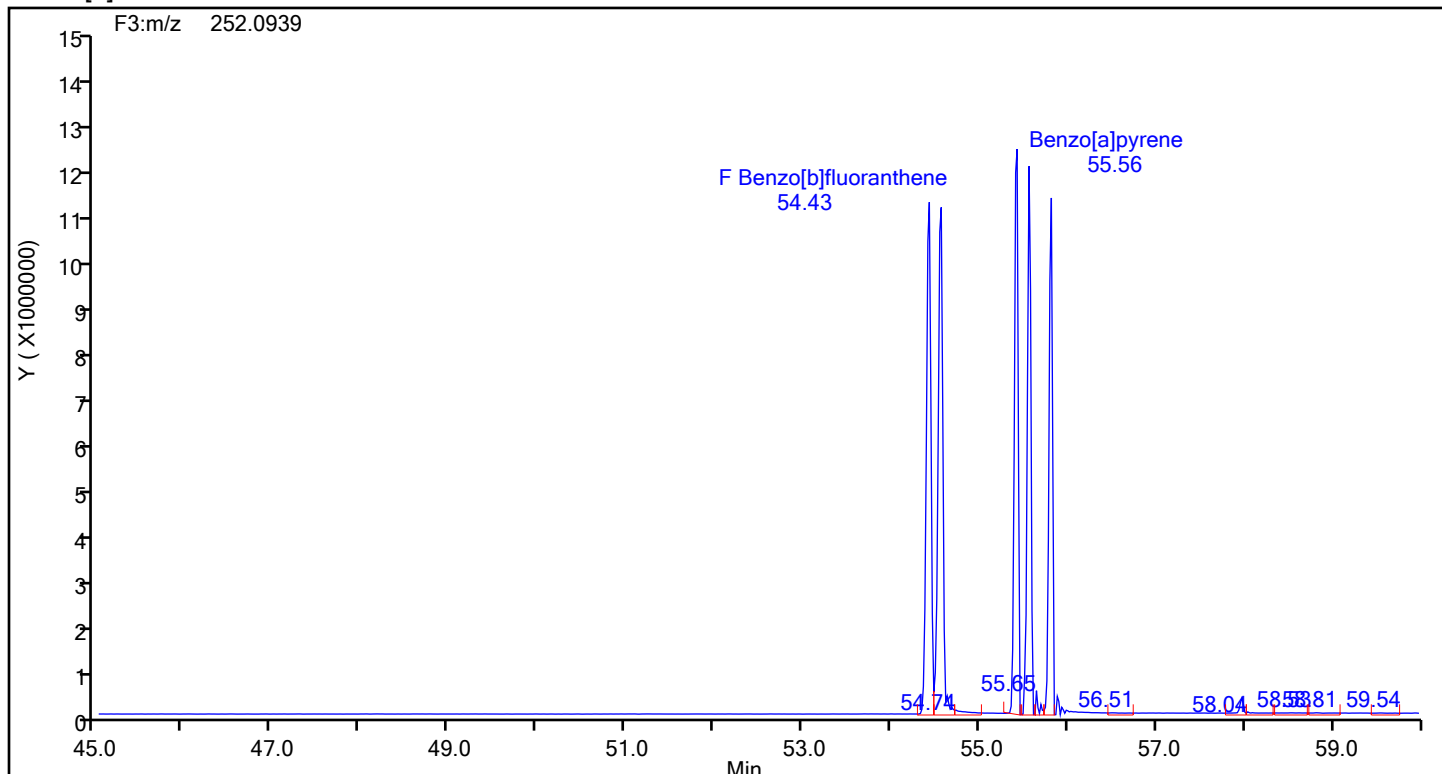
## Benzo[a]anthracene Standards



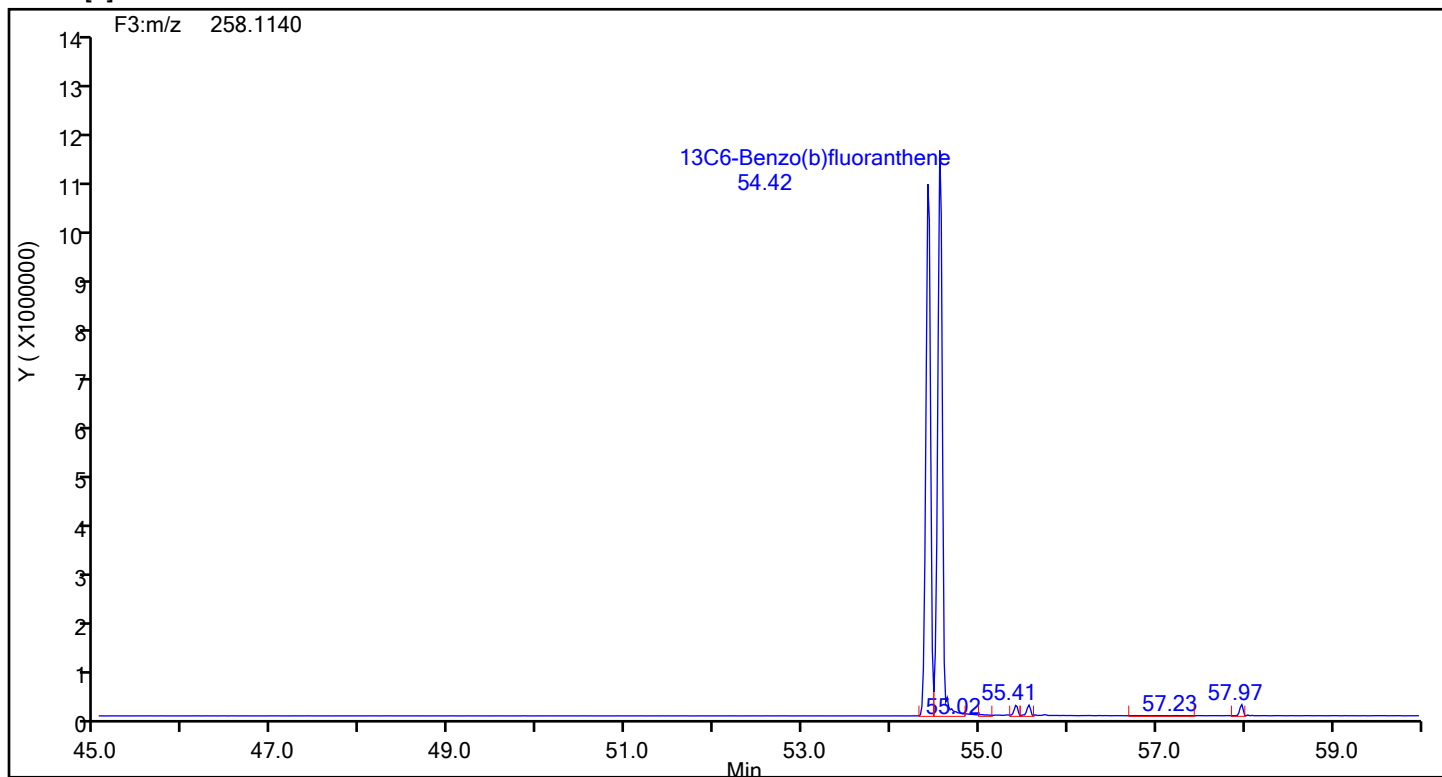
Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B_20240710115341.d		
Injection Date:	10-Jul-2024 11:56:00	Injection Vol:	1.0 ul
Instrument ID:	D3PAH	Operator ID:	Xcalibur_System
Method:	EPA_23__PAH	Limit Group:	HR - HRPAAH ICAL
Client ID:			
Worklist#:	88561	Sample Line#:	2
Column Type:	Restek-5Sil MS 25um	Column Dia:	0.25 mm

Benzo[b]fluoranthene



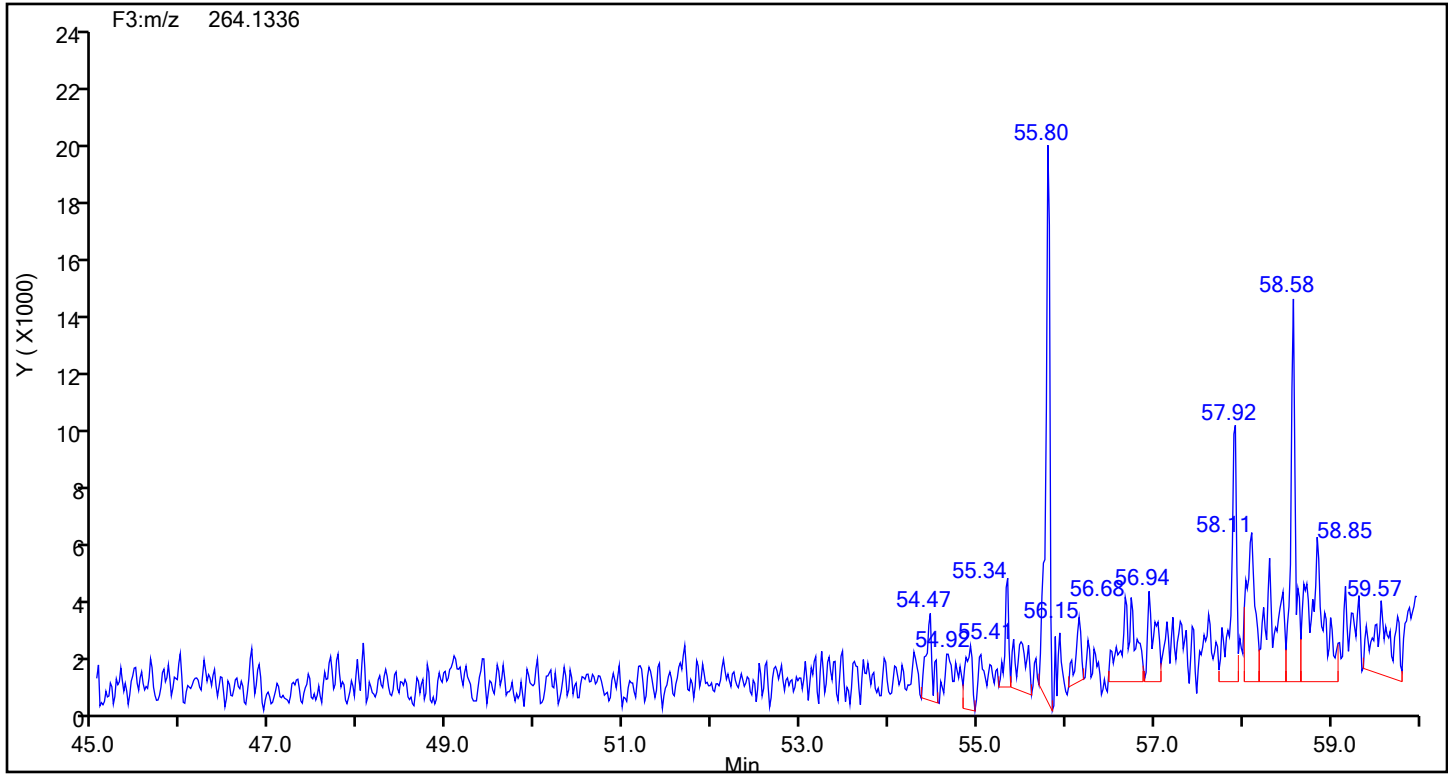
### Benzo[b]fluoranthene Standards



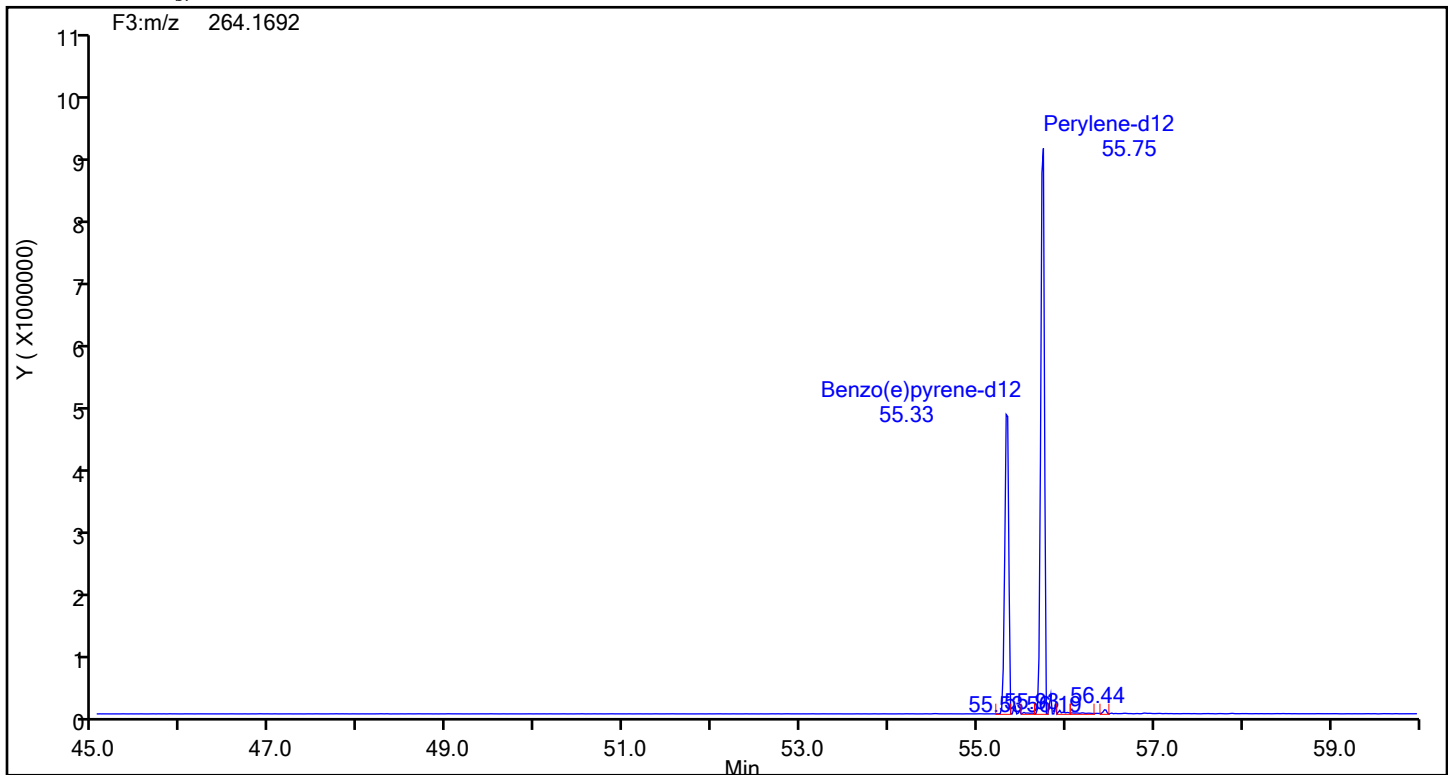
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B\_20240710115341.d  
Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 13C12-Benzo(j)fluoranthene



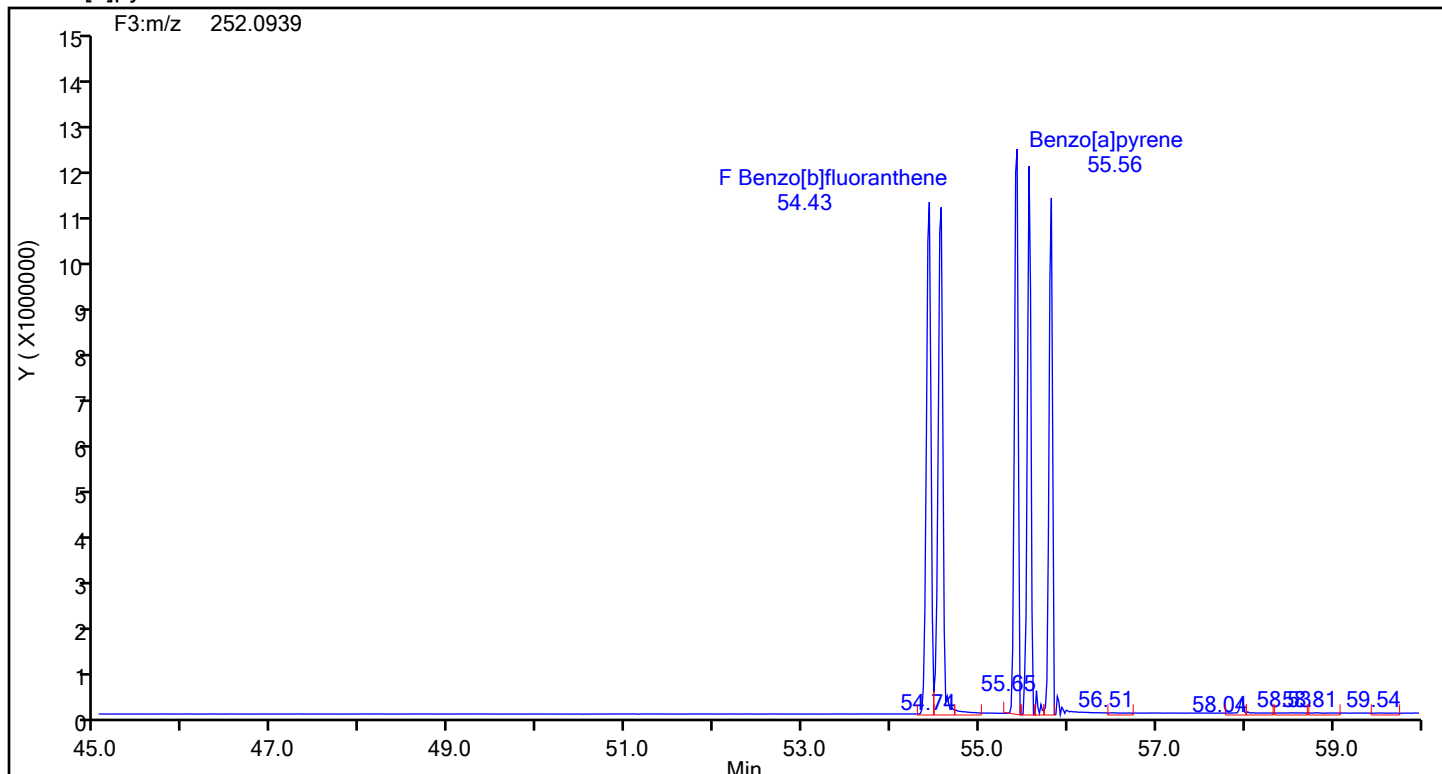
## 13C12-Benzo(j)fluoranthene Standards



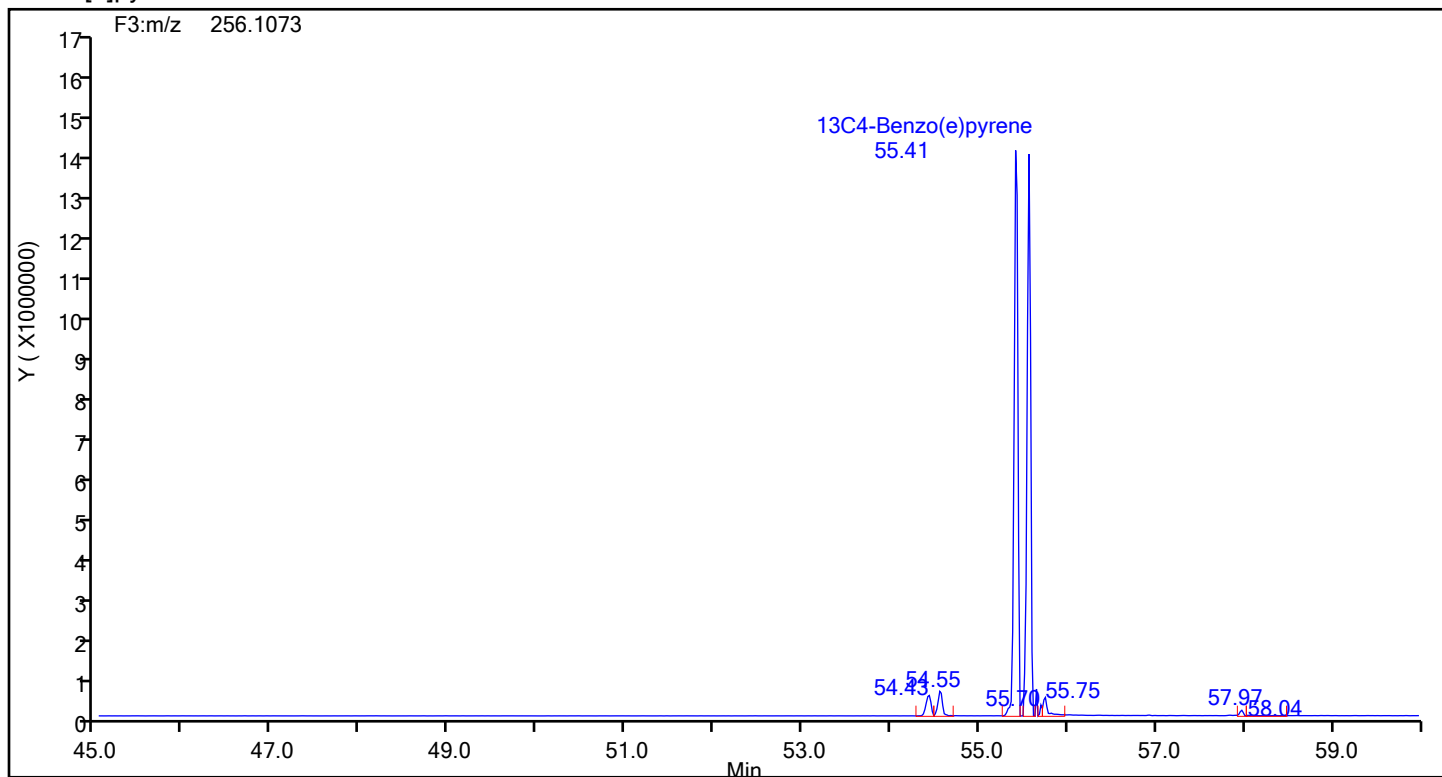
## Eurofins Knoxville

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Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene

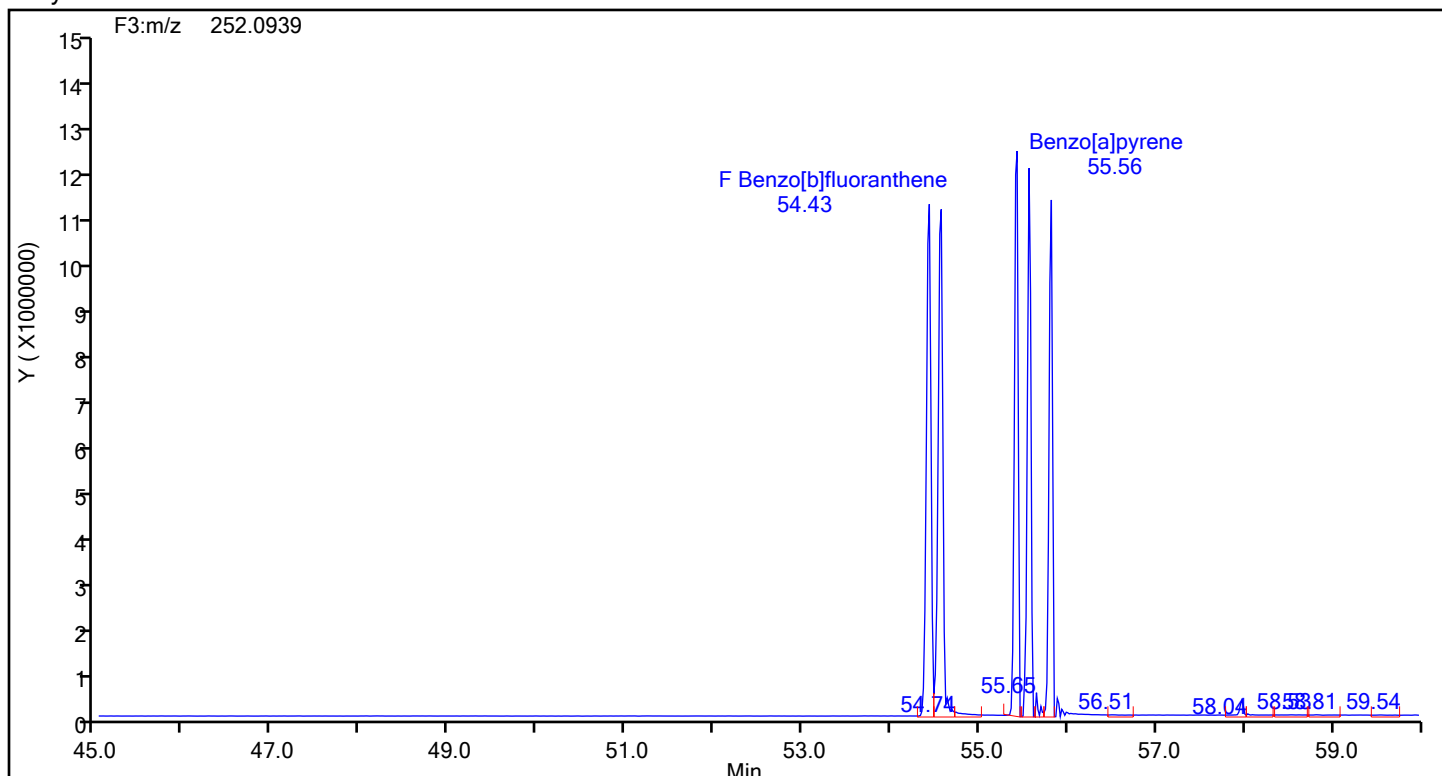


## Benzo[e]pyrene Standards

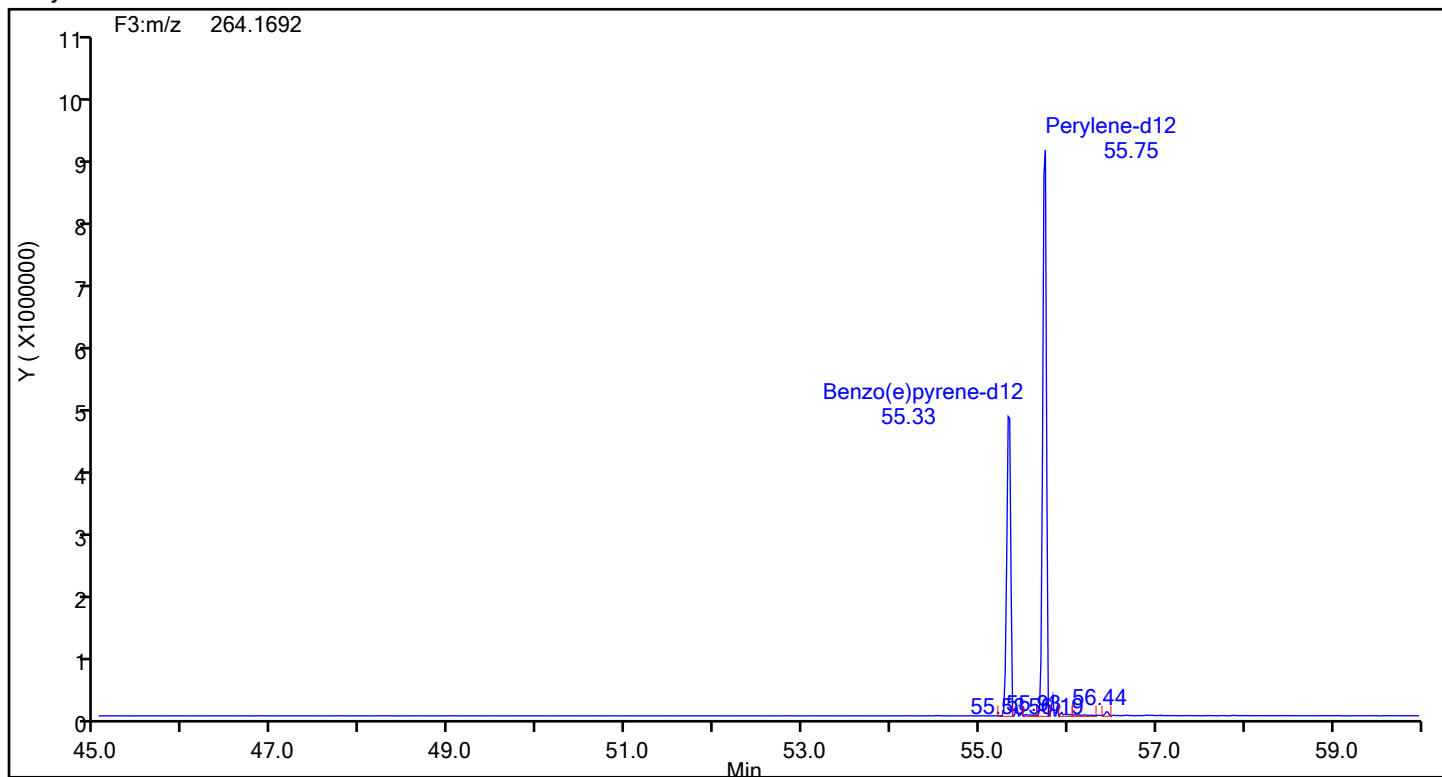


## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Perylene

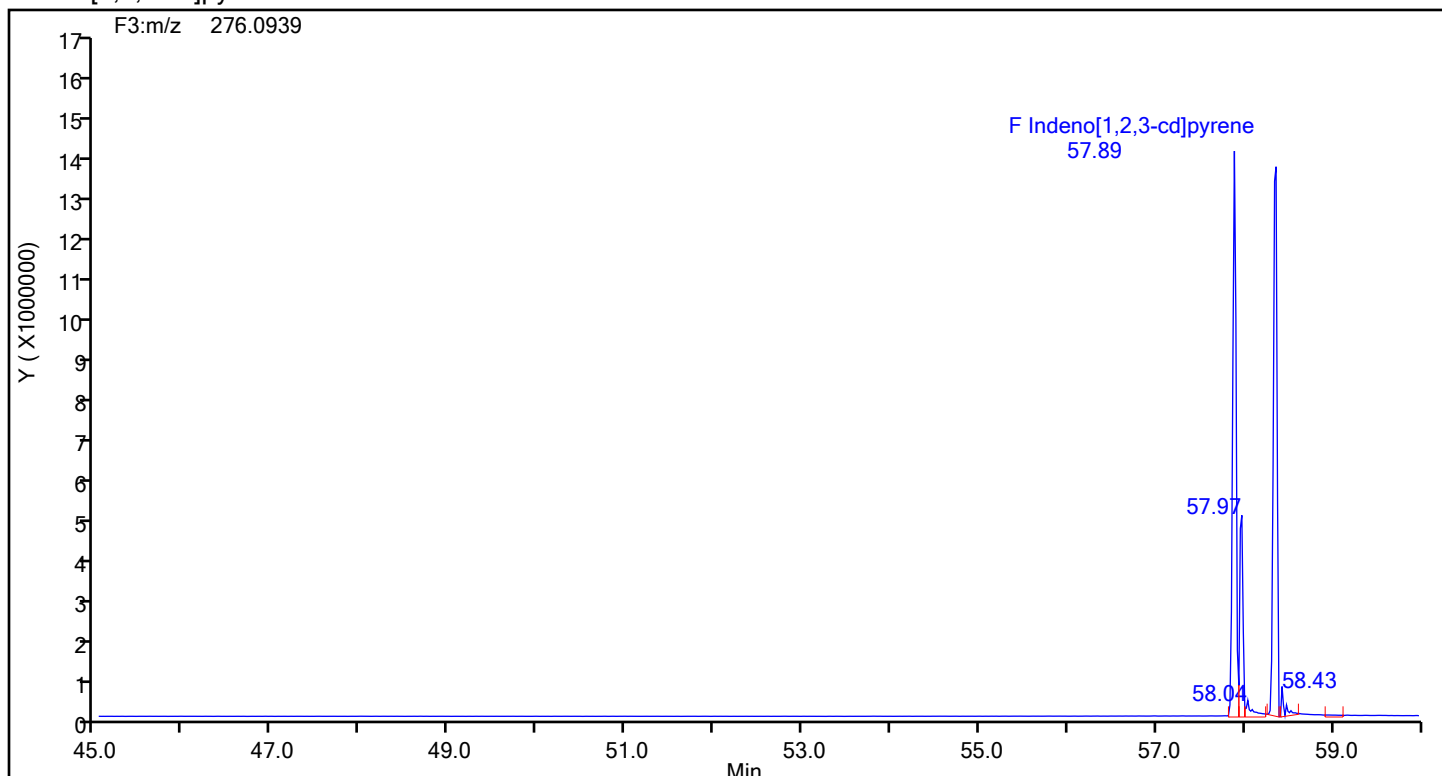


## Perylene Standards

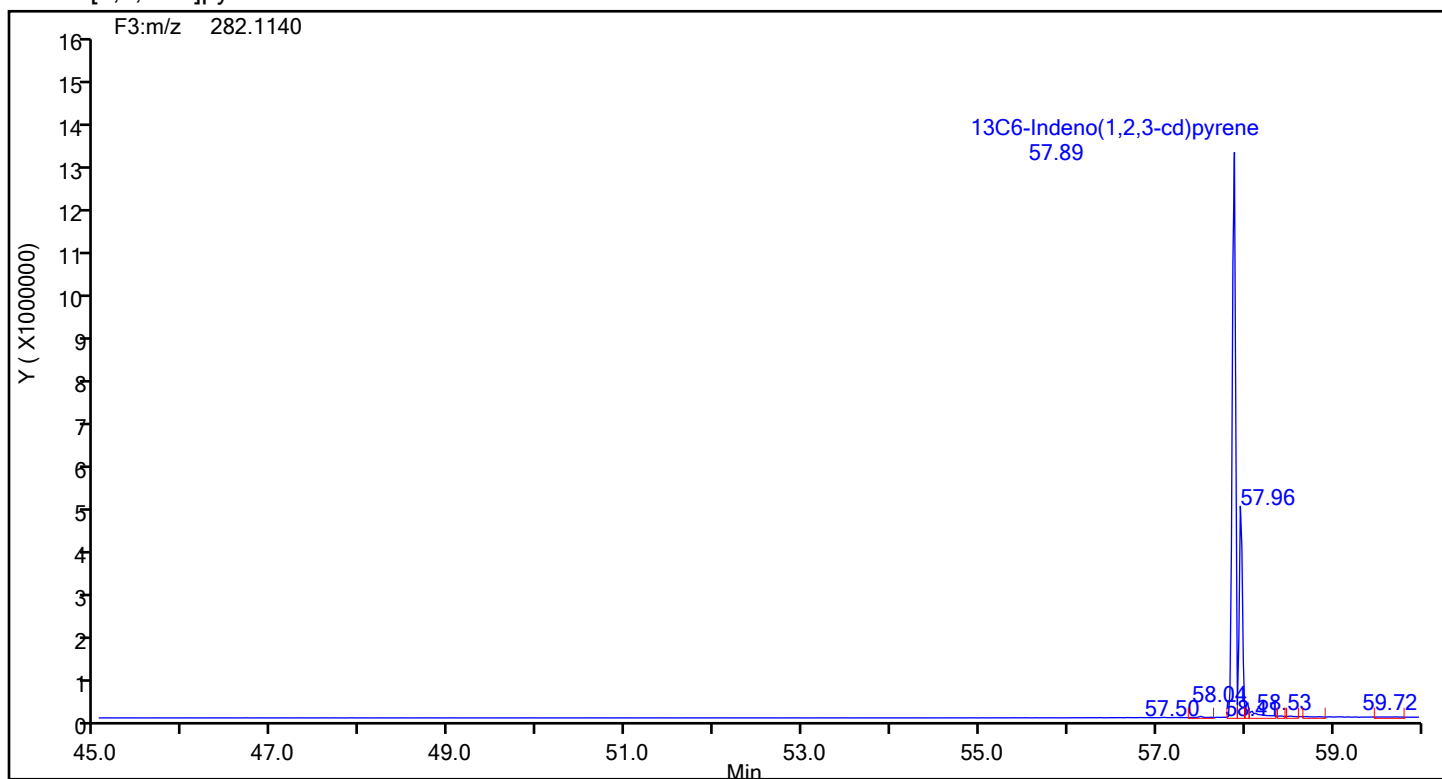


## Eurofins Knoxville

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Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Indeno[1,2,3-cd]pyrene



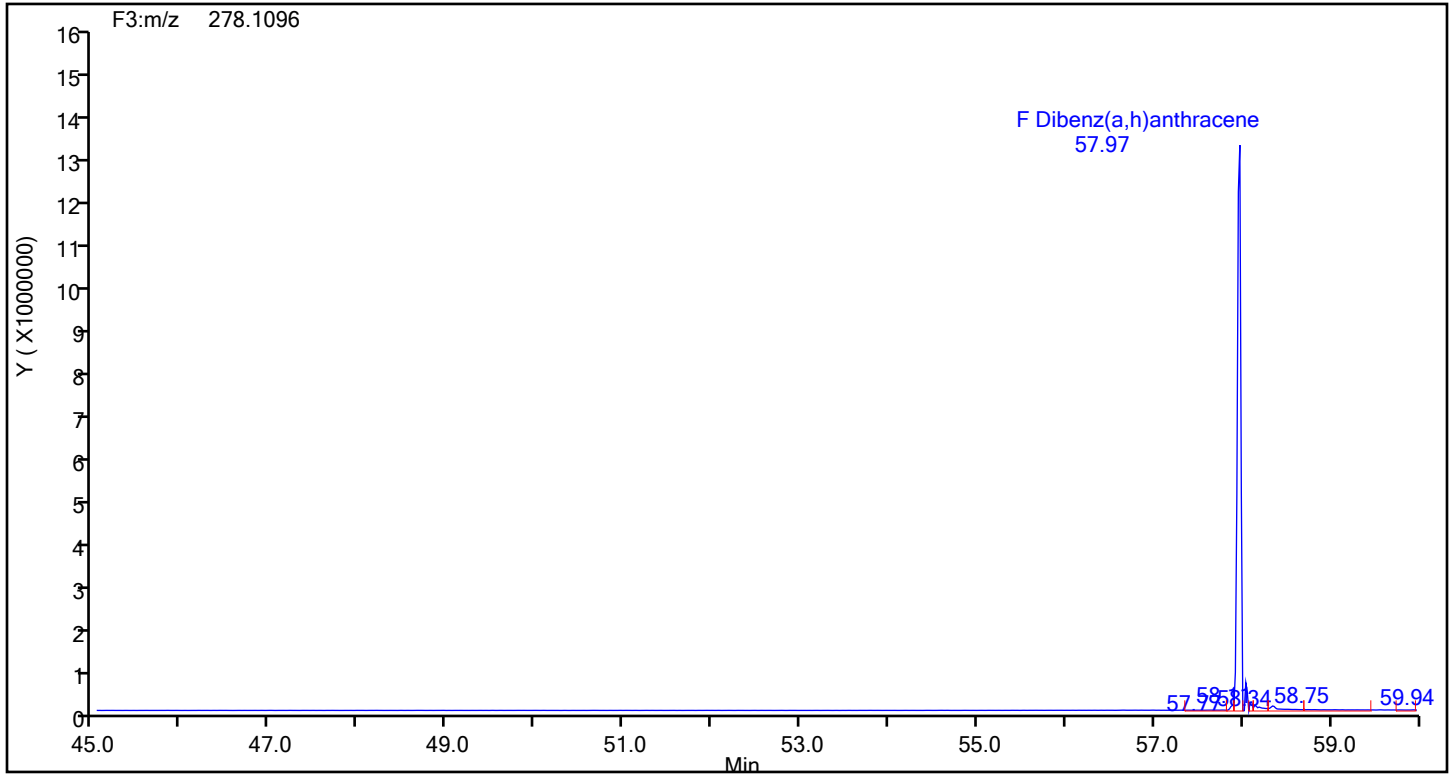
## Indeno[1,2,3-cd]pyrene Standards



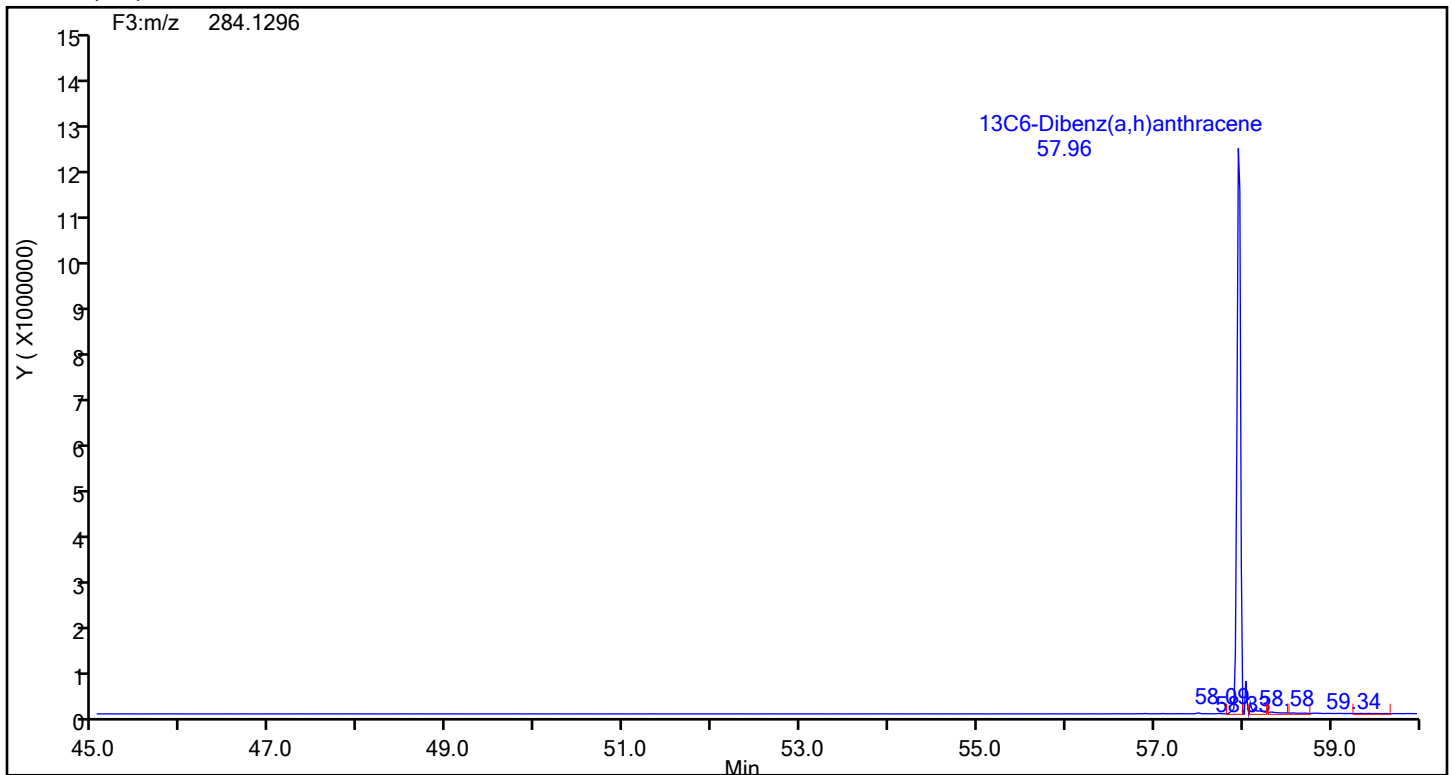
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
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Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Dibenz(a,h)anthracene



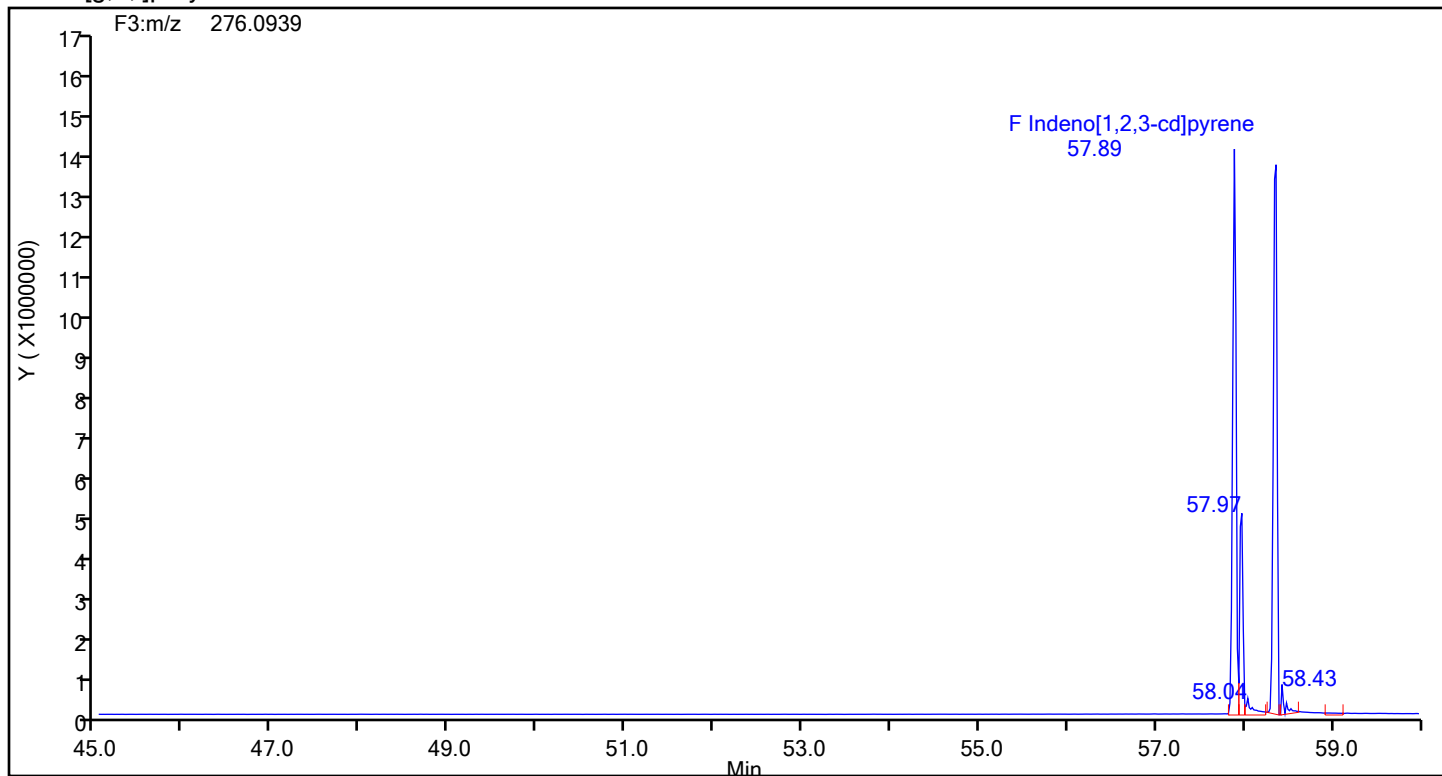
## Dibenz(a,h)anthracene Standards



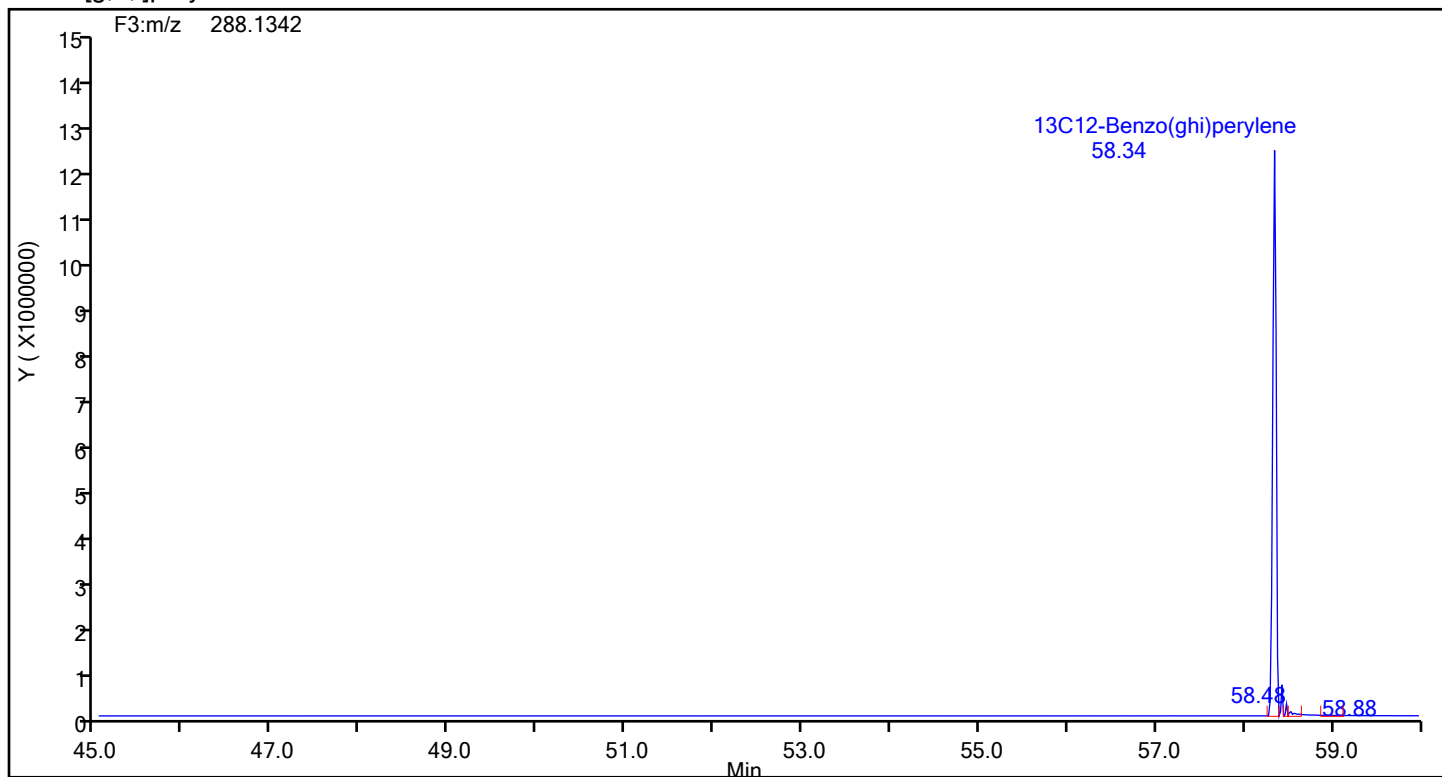
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCS140-8762019-B\_20240710115341.d  
Injection Date: 10-Jul-2024 11:56:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 2  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[g,h,i]perylene



## Benzo[g,h,i]perylene Standards





FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-87620/20-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>LCSD140-8762020-Ba.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>07/10/2024 13:00</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88561</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
91-20-3	Naphthalene	183.1		75.0	75.0	0.111
91-57-6	2-Methylnaphthalene	177.0		75.0	75.0	0.0555
208-96-8	Acenaphthylene	123.3		3.00	3.00	0.0699
83-32-9	Acenaphthene	130.9		30.0	30.0	0.0654
86-73-7	Fluorene	145.8		30.0	30.0	0.0875
85-01-8	Phenanthrene	161.5		6.00	6.00	0.179
120-12-7	Anthracene	122.0		30.0	30.0	0.163
206-44-0	Fluoranthene	136.6		6.00	6.00	0.0599
129-00-0	Pyrene	137.4		6.00	6.00	0.0613
56-55-3	Benzo[a]anthracene	167.6		6.00	6.00	0.0804
218-01-9	Chrysene	172.1		6.00	6.00	0.0819
205-99-2	Benzo[b]fluoranthene	135.5		30.0	30.0	0.0140
207-08-9	Benzo[k]fluoranthene	127.8		6.00	6.00	0.0129
192-97-2	Benzo[e]pyrene	143.3		6.00	6.00	0.0116
50-32-8	Benzo[a]pyrene	117.3		3.00	3.00	0.0115
198-55-0	Perylene	118.9		3.00	3.00	0.0104
193-39-5	Indeno[1,2,3-cd]pyrene	137.8		3.00	3.00	0.0106
53-70-3	Dibenz(a,h)anthracene	141.2		6.00	6.00	0.00782
191-24-2	Benzo[g,h,i]perylene	134.9		6.00	6.00	0.00880

FORM I  
HI-RES PAHS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-87620/20-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>LCSD140-8762020-Ba.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:30</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/10/2024 13:00</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>Rxi-5SilMS 25</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88561</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87620</u>	Instrument ID: <u>Excalibur D3PAH DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02217	13C6-Naphthalene	66		20-130
STL03357	13C6-2-Methylnaphthalene	71		20-130
189811-56-1	13C6-Acenaphthylene	104		20-130
189811-57-2	13C6-Acenaphthene	92		20-130
STL00616	13C6-Fluorene	105		20-130
1397194-60-3	13C6-Fluoranthrene	92		20-130
1397214-90-2	13C3-Pyrene	88		20-130
917378-11-1	13C6-Benzo(a)anthracene	99		20-130
1397177-72-8	13C6-Chrysene	94		20-130
STL03358	13C6-Benzo(b)fluoranthene	96		20-130
1397194-60-3	13C6-Benzo(k)fluoranthene	89		20-130
STL03382	13C4-Benzo(e)pyrene	89		20-130
STL03359	13C4-Benzo(a)pyrene	94		20-130
1520-96-3	Perylene-d12	94		20-130
362044-56-2	13C6-Indeno(1,2,3-cd)pyrene	116		20-130
STL03360	13C6-Dibenz(a,h)anthracene	108		20-130
350820-11-0	13C12-Benzo(ghi)perylene	93		20-130
189811-60-7	13C6-Anthracene	94		20-130
1189955-53-0	13C6-Phenanthrene	80		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d  
Lims ID: LCSD 140-87620/20-B  
Client ID:  
Sample Type: LCSD  
Inject. Date: 10-Jul-2024 13:00:00 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033436-003  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAL ICAL  
Last Update: 10-Jul-2024 20:33:23 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1658

First Level Reviewer: TT6I

Date: 11-Jul-2024 07:19:40

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Naphthalene	11:18	29120494		3.3746	66.5	66.5	0.0112	0.0112	66.48	
Naphthalene	11:18	45820883		1.2893	122.0	122.0	0.0739	0.0739	122	
D 13C6-2-Methylnaphthalene	13:42	14764022		1.6031	71.0	71.0	0.009278	0.009278	70.95	
2-Methylnaphthalene	13:43	22280386		1.2786	118.0	118.0	0.0370	0.0370	118	
D 13C6-Acenaphthylene	16:33	22320808		1.6520	104.1	104.1	0.0147	0.0147	104	
Acenaphthylene	16:33	22803354		2.3661	82.2	82.2	0.0466	0.0466	82.18	
* Acenaphthene-d10	17:07	6490388		3.5E+04	50.0	50.0				
D 13C6-Acenaphthene	17:14	11727732		0.9792	92.3	92.3	0.0218	0.0218	92.27	
Acenaphthene	17:14	12993014		1.2697	87.3	87.3	0.0436	0.0436	87.26	
D 13C6-Fluorene	19:29	12149912		0.8898	105.2	105.2	0.0210	0.0210	105	
Fluorene	19:30	14801723		1.2532	97.2	97.2	0.0583	0.0583	97.22	
D 13C6-Phenanthrene	24:48	16212721		0.5724	80.1	80.1	0.0168	0.0168	80.14	
Phenanthrene	24:49	19279234		1.1044	107.7	107.7	0.1191	0.1191	108	
D 13C6-Anthracene	25:08	14970859		0.4523	93.7	93.7	0.0212	0.0212	93.65	
Anthracene	25:09	16539721		1.3586	81.3	81.3	0.1090	0.1090	81.32	
D 13C6-Fluoranthrene	33:31	39038084		1.1994	92.1	92.1	0.0189	0.0189	92.10	
Fluoranthene	33:31	40938328		1.1513	91.1	91.1	0.0399	0.0399	91.08	
* Pyrene-d10	35:03	17669904		7.9E+04	50.0	50.0				
D 13C3-Pyrene	35:11	42190757		1.3512	88.4	88.4	0.0179	0.0179	88.35	
Pyrene	35:12	41160827		1.0652	91.6	91.6	0.0409	0.0409	91.59	
D 13C6-Benzo(a)anthracene	45:42	44833384		1.5189	99.1	99.1	0.0100	0.0100	99.07	
Benzo[a]anthracene	45:43	48787222		0.9739	111.7	111.7	0.0536	0.0536	112	
D 13C6-Chrysene	45:58	45690271		1.6287	94.2	94.2	0.009358	0.009358	94.15	
Chrysene	45:59	51434984		0.9815	114.7	114.7	0.0546	0.0546	115	
D 13C6-Benzo(b)fluoranthene	54:24	41819532		1.4621	96.0	96.0	0.003763	0.003763	96.00	
Benzo[b]fluoranthene	54:24	42494006		1.1249	90.3	90.3	0.009342	0.009342	90.33	
Benzo[k]fluoranthene	54:32	44470555		1.1271	85.2	85.2	0.008578	0.008578	85.20	
D 13C6-Benzo(k)fluoranthene	54:32	46310094		1.7507	88.8	88.8	0.003143	0.003143	88.78	
* Benzo(e)pyrene-d12	55:19	14897161		5.7E+04	50.0	50.0				
Benzo[e]pyrene	55:24	41570193		1.0013	95.5	95.5	0.007758	0.007758	95.51	
D 13C4-Benzo(e)pyrene	55:24	43470117		1.6368	89.1	89.1	0.004611	0.004611	89.14	
D 13C4-Benzo(a)pyrene	55:33	43386789		1.5508	93.9	93.9	0.004867	0.004867	93.90	
Benzo[a]pyrene	55:33	37752764		1.1130	78.2	78.2	0.007684	0.007684	78.18	
D Perylene-d12	55:43	33318335		1.1917	93.8	93.8	0.005778	0.005778	93.84	
Perylene	55:47	37793159		1.4307	79.3	79.3	0.006909	0.006909	79.28	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D 13C6-Indeno(1,2,3-cd)pyrene	57:52	35422890		1.0218	116.3	116.3	0.009769	0.009769	116	
Indeno[1,2,3-cd]pyrene	57:52	36620044		1.1249	91.9	91.9	0.007046	0.007046	91.90	
D 13C6-Dibenz(a,h)anthracene	57:56	33897979		1.0553	107.8	107.8	0.007383	0.007383	108	
Dibenz(a,h)anthracene	57:56	36105444		1.1314	94.1	94.1	0.005210	0.005210	94.14	
D 13C12-Benzo(ghi)perylene	58:20	35189308		1.2749	92.6	92.6	0.001467	0.001467	92.64	
Benzo[g,h,i]perylene	58:20	40614018		1.2838	89.9	89.9	0.005869	0.005869	89.90	

## QC Flag Legend

Processing Flags

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d  
Lims ID: LCSD 140-87620/20-B  
Client ID:  
Sample Type: LCSD  
Inject. Date: 10-Jul-2024 13:00:00 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033436-003  
Operator ID: Xcalibur\_System Instrument ID: D3PAH  
Method: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\EPA\_23\_\_PAH.m  
Limit Group: HR - HRPAAH ICAL  
Last Update: 10-Jul-2024 20:33:23 Calib Date: 20-Jun-2024 01:09:00  
Integrator: RTE  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D3PAH\20240619-33168.b\d3240619ic9.d  
Column 1 : Restek-5Sil MS 25um ( 0.25 mm) Det: F1(6.03 :27.99 )  
Process Host: CTX1658

First Level Reviewer: TT6I

Date: 11-Jul-2024 07:19:40

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
13C6-Naphthalene											
134.0828	11:18	11:20	-3	0.660	29120494	10104754	689	1722	14666		
Naphthalene											
128.0626	11:18	11:18	-3	1.000	45820883	15577555	3853	9632	4043		
13C6-2-Methylnaphthalene											
148.0984	13:42	13:43	-2	0.800	14764022	7119761	271	677	26272		
2-Methylnaphthalene											
142.0783	13:43	13:42	-1	1.001	22280386	10655380	1348	3370	7905		
13C6-Acenaphthylene											
158.0828	16:33	16:33	-1	0.967	22320808	8043955	441	1102	18240		E
Acenaphthylene											
152.0626	16:33	16:35	-2	1.000	22803354	8679669	1830	4575	4743		
Acenaphthene-d10											
164.1404	17:07	17:08	-1		6490388	2275875	126	315	18063		
13C6-Acenaphthene											
160.0984	17:14	17:14	-1	1.007	11727732	4149717	389	972	10668		
Acenaphthene											
154.0783	17:14	17:14	-2	1.000	12993014	4646189	919	2297	5056		
13C6-Fluorene											
172.0984	19:29	19:29	-2	1.138	12149912	3735012	341	852	10953		E
Fluorene											
166.0783	19:30	19:30	-2	1.001	14801723	4483959	1092	2730	4106		
13C6-Phenanthrene											
184.0984	24:48	24:49	-2	0.708	16212721	3948418	264	660	14956		
Phenanthrene											
178.0783	24:49	24:49	-2	1.000	19279234	4597661	2077	5192	2214		

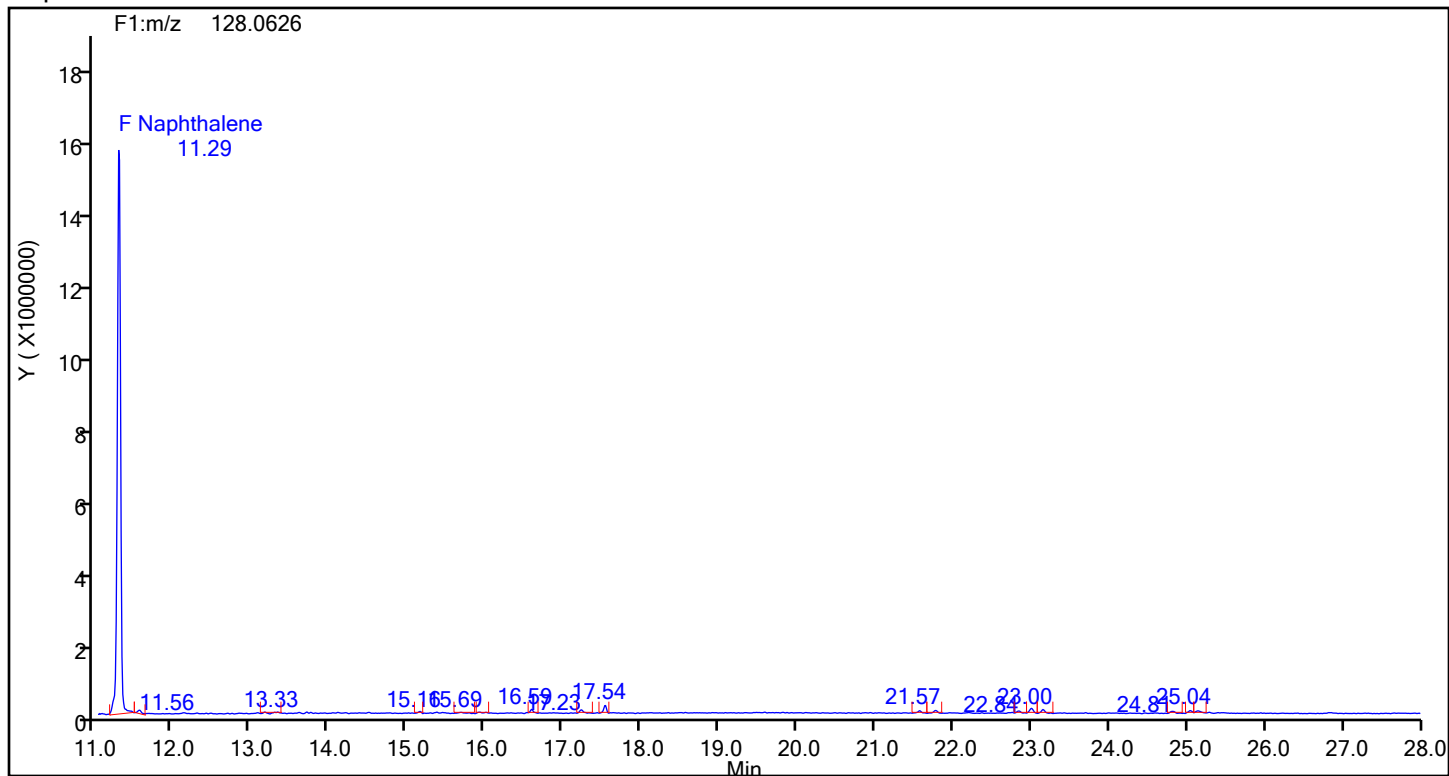
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13C6-Anthracene											
184.0984	25:08	25:08	-2	0.717	14970859	3507178	264	660	13285		
Anthracene											
178.0783	25:09	25:09	-2	1.000	16539721	3773736	2077	5192	1817		
13C6-Fluoranthrene											
208.0984	33:31	33:30	-2	0.956	39038084	7911710	623	1557	12699		
Fluoranthene											
202.0783	33:31	33:31	-3	1.000	40938328	8259528	1454	3635	5681		
Pyrene-d10											
212.1404	35:03	35:05	-3		17669904	3433495	179	447	19182		
13C3-Pyrene											
205.0883	35:11	35:10	-2	1.004	42190757	8349503	665	1662	12556		
Pyrene											
202.0783	35:12	35:12	-2	1.000	41160827	8037005	1454	3635	5528		
13C6-Benzo(a)anthracene											
234.1140	45:42	45:40	-2	1.304	44833384	8462122	626	1565	13518		
Benzo[a]anthracene											
228.0939	45:43	45:42	-1	1.000	48787222	9284839	1767	4417	5255		
13C6-Chrysene											
234.1140	45:58	45:57	-2	1.312	45690271	8245653	626	1565	13172		
Chrysene											
228.0939	45:59	45:58	-1	1.000	51434984	9401063	1767	4417	5320		
13C6-Benzo(b)fluoranthene											
258.1140	54:24	54:24	0	0.984	41819532	11275762	226	565	49893		
Benzo[b]fluoranthene											
252.0939	54:24	54:24	0	1.000	42494006	11666602	474	1185	24613		
Benzo[k]fluoranthene											
252.0939	54:32	54:32	0	1.000	44470555	12207274	474	1185	25754		
13C6-Benzo(k)fluoranthene											
258.1140	54:32	54:32	0	0.986	46310094	12256754	226	565	54233		
Benzo(e)pyrene-d12											
264.1692	55:19	55:19	0		14897161	5134228	283	707	18142		
Benzo[e]pyrene											
252.0939	55:24	55:24	0	1.000	41570193	14663850	474	1185	30936		
13C4-Benzo(e)pyrene											
256.1073	55:24	55:24	0	1.002	43470117	15254424	310	775	49208		
13C4-Benzo(a)pyrene											
256.1073	55:33	55:33	0	1.004	43386789	13854699	310	775	44693		
Benzo[a]pyrene											
252.0939	55:33	55:33	0	1.000	37752764	12956416	474	1185	27334		
Perylene-d12											
264.1692	55:43	55:43	0	1.007	33318335	11988970	283	707	42364		
Perylene											
252.0939	55:47	55:47	0	1.001	37793159	13207457	474	1185	27864		
13C6-Indeno(1,2,3-cd)pyrene											
282.1140	57:52	57:51	1	1.046	35422890	12388672	410	1025	30216		E

## QC Flag Legend

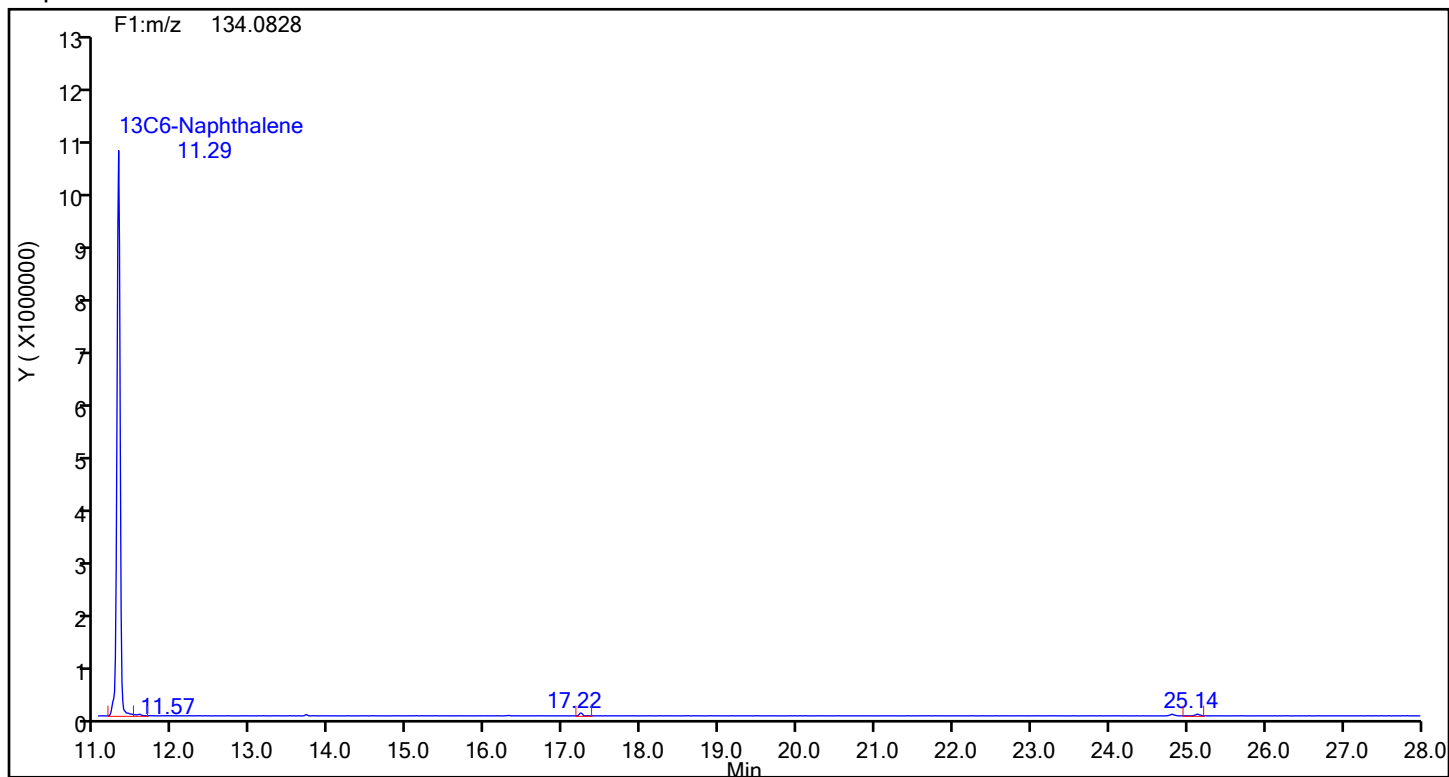
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Naphthalene



## Naphthalene Standards

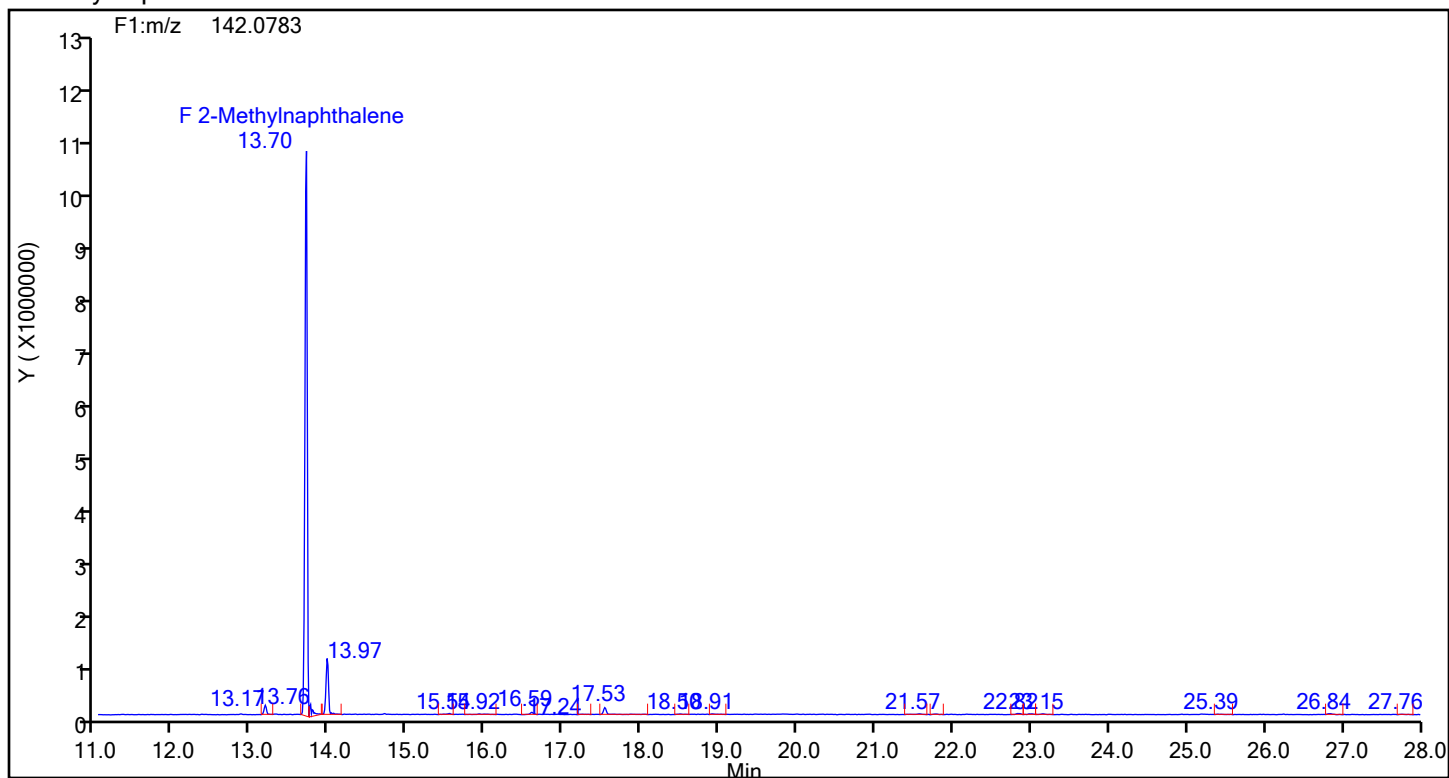




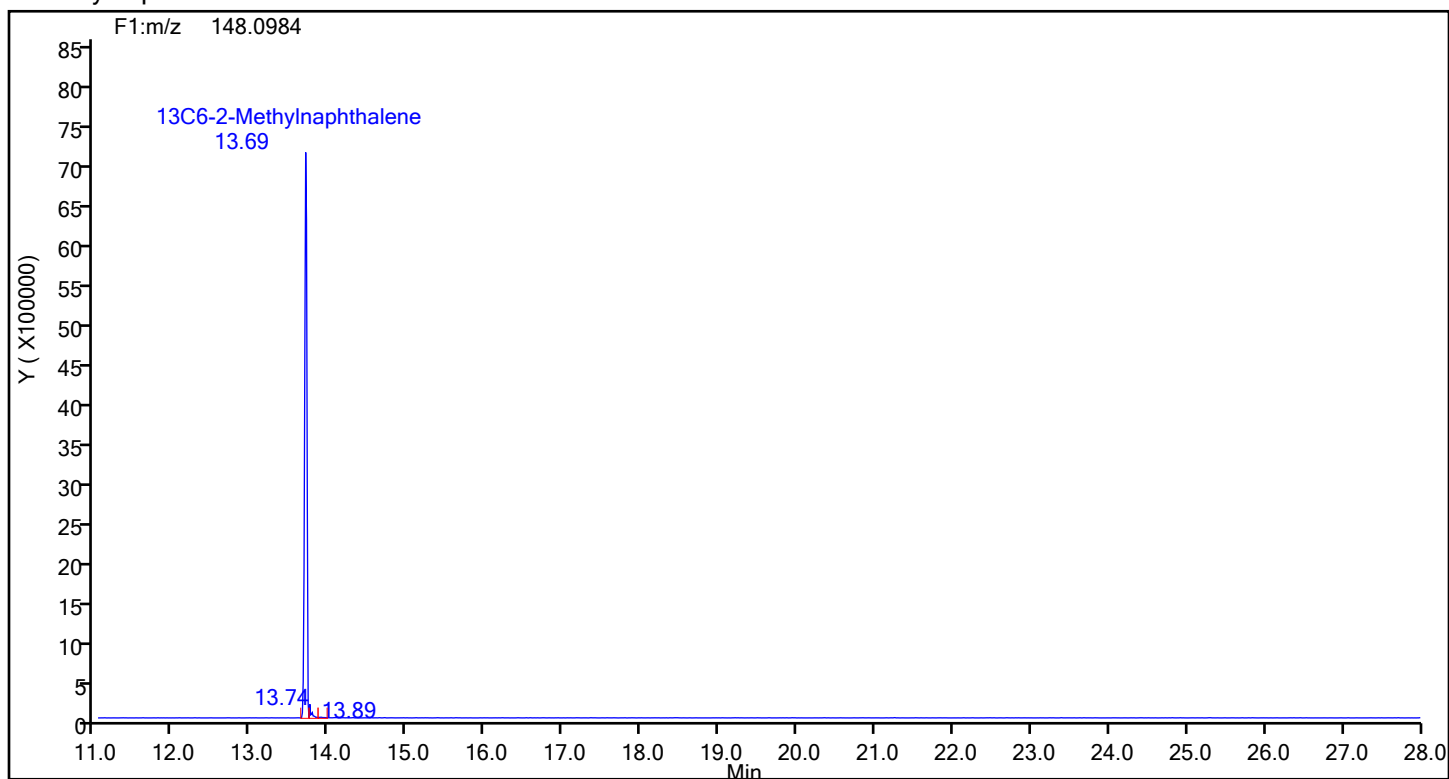
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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## 2-Methylnaphthalene



## 2-Methylnaphthalene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

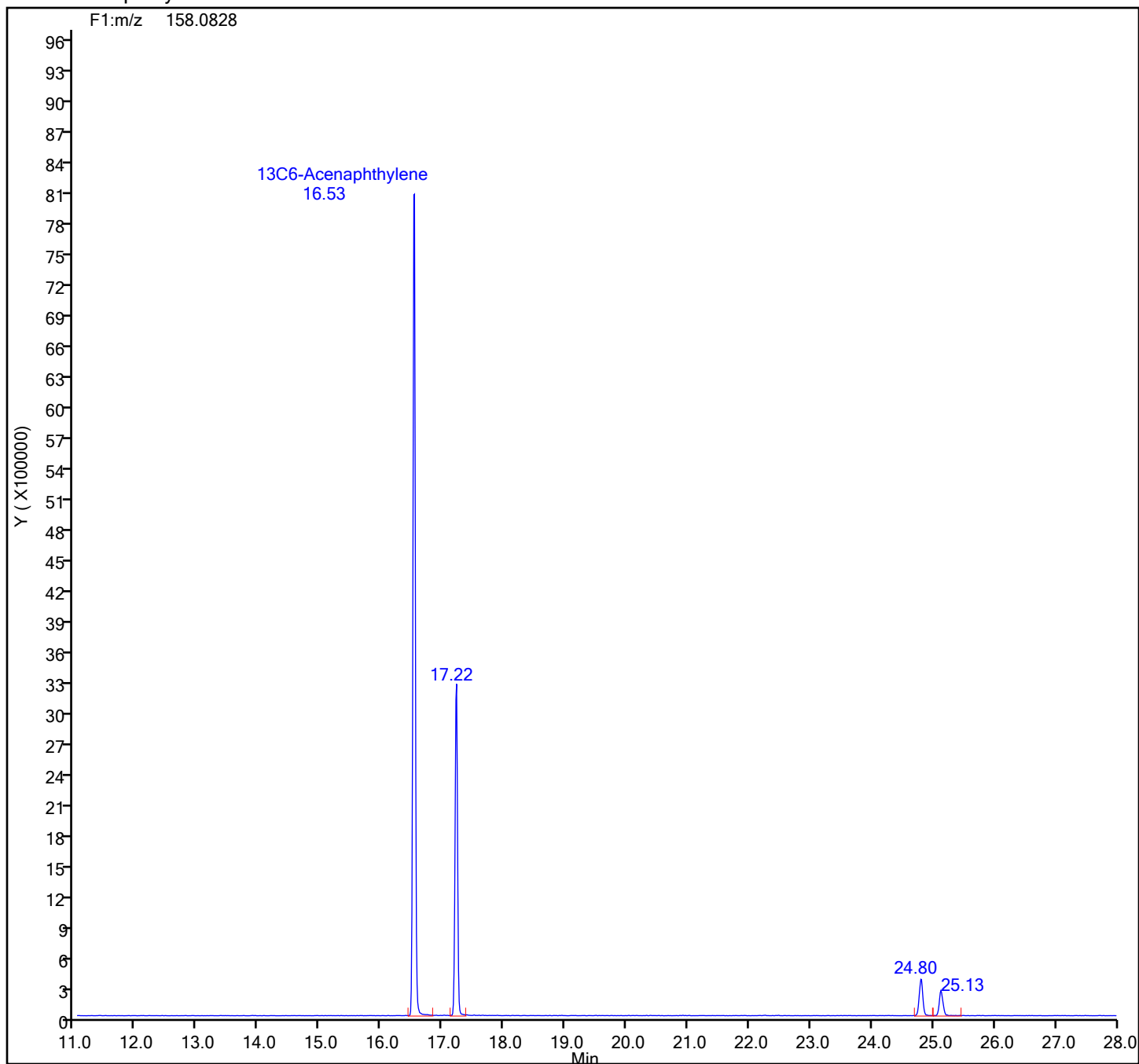
Worklist#: 88561

Sample Line#: 3

Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

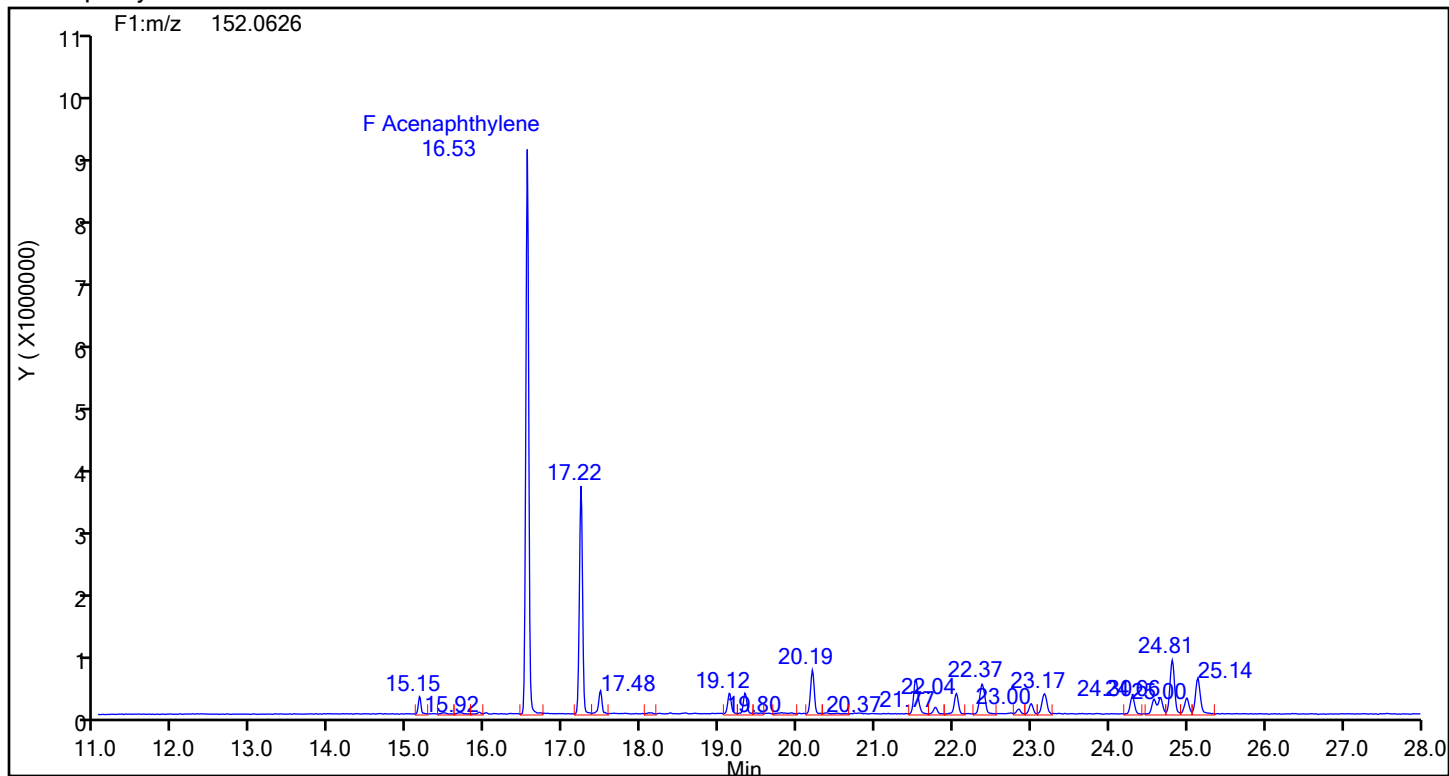
## 13C6-Acenaphthylene Standards



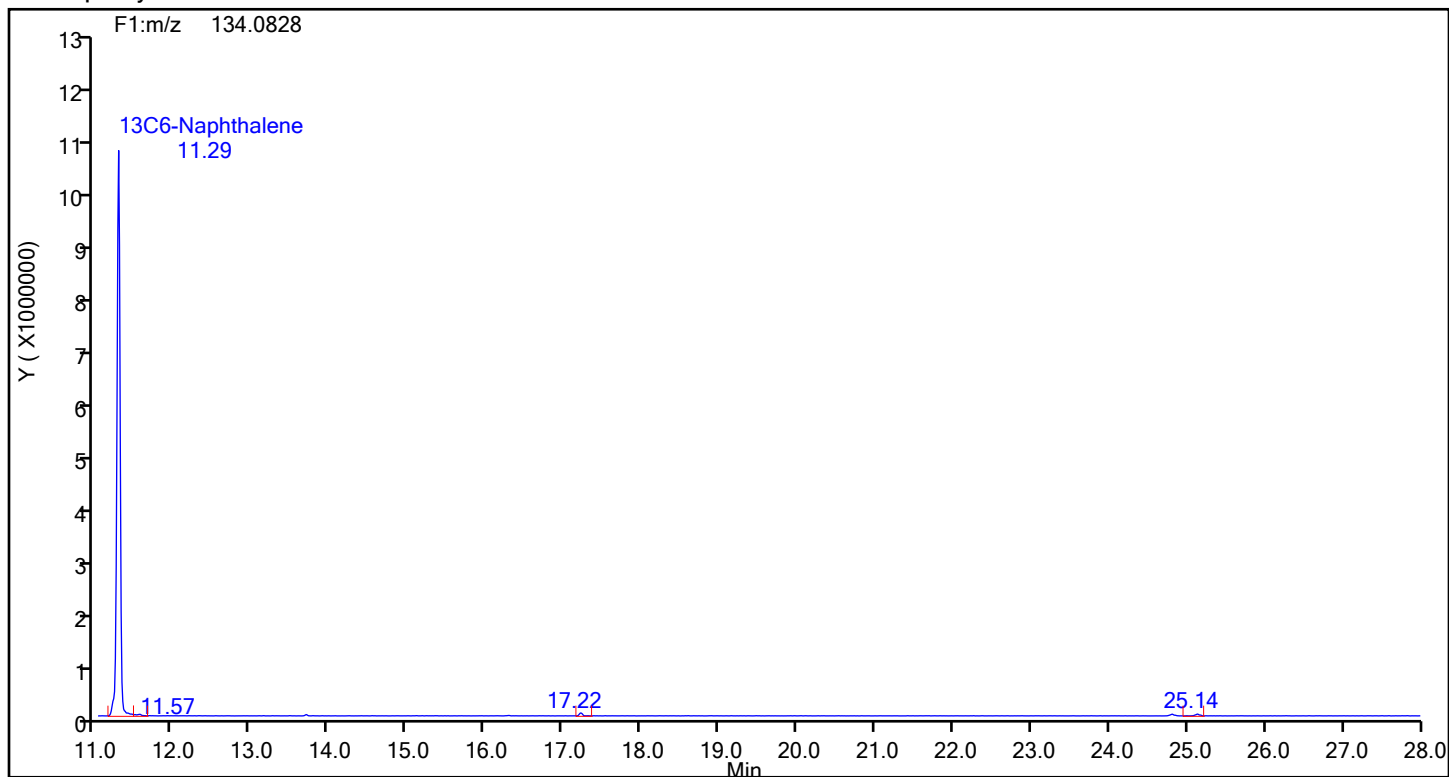
## Eurofins Knoxville

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Injection Date: 10-Jul-2024 13:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthylene



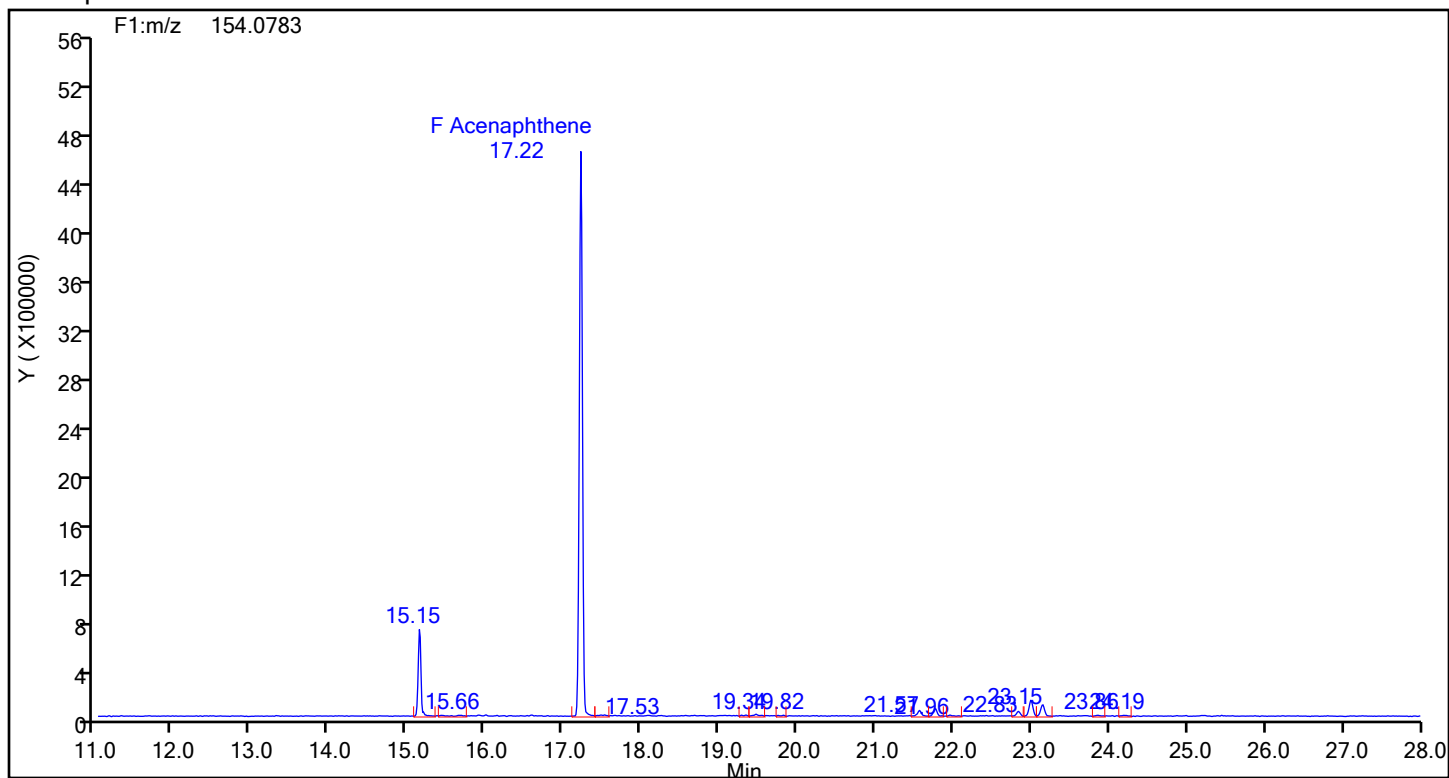
## Acenaphthylene Standards



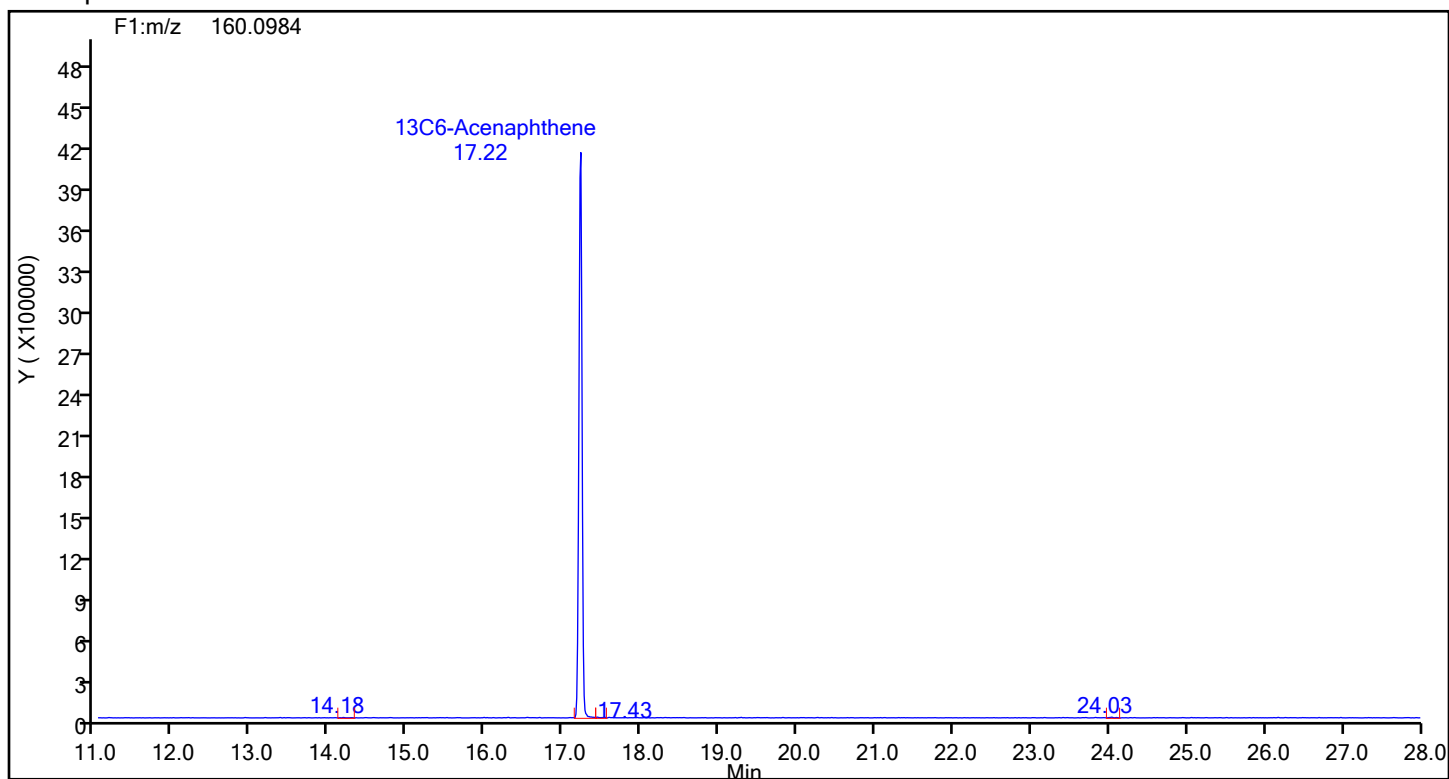
## Eurofins Knoxville

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Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Acenaphthene



## Acenaphthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

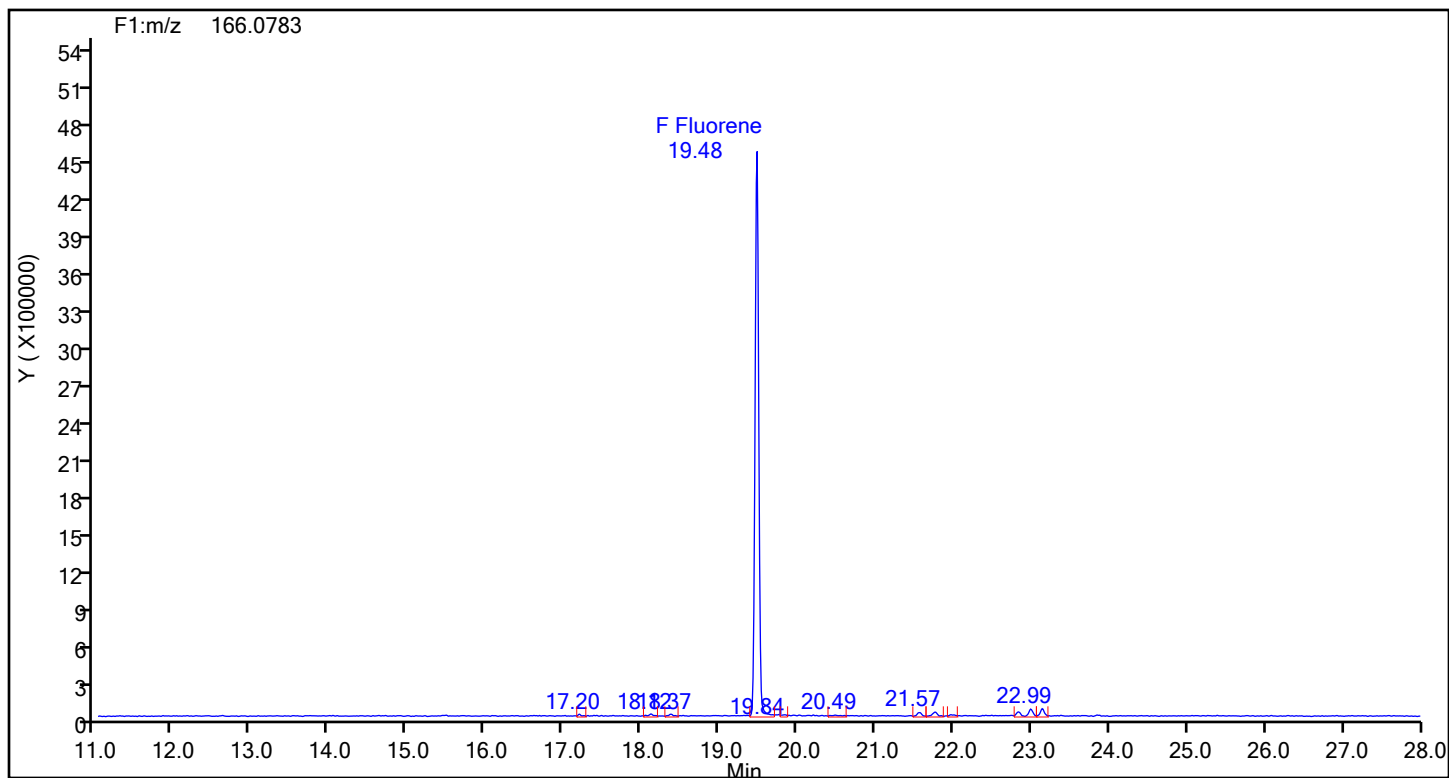
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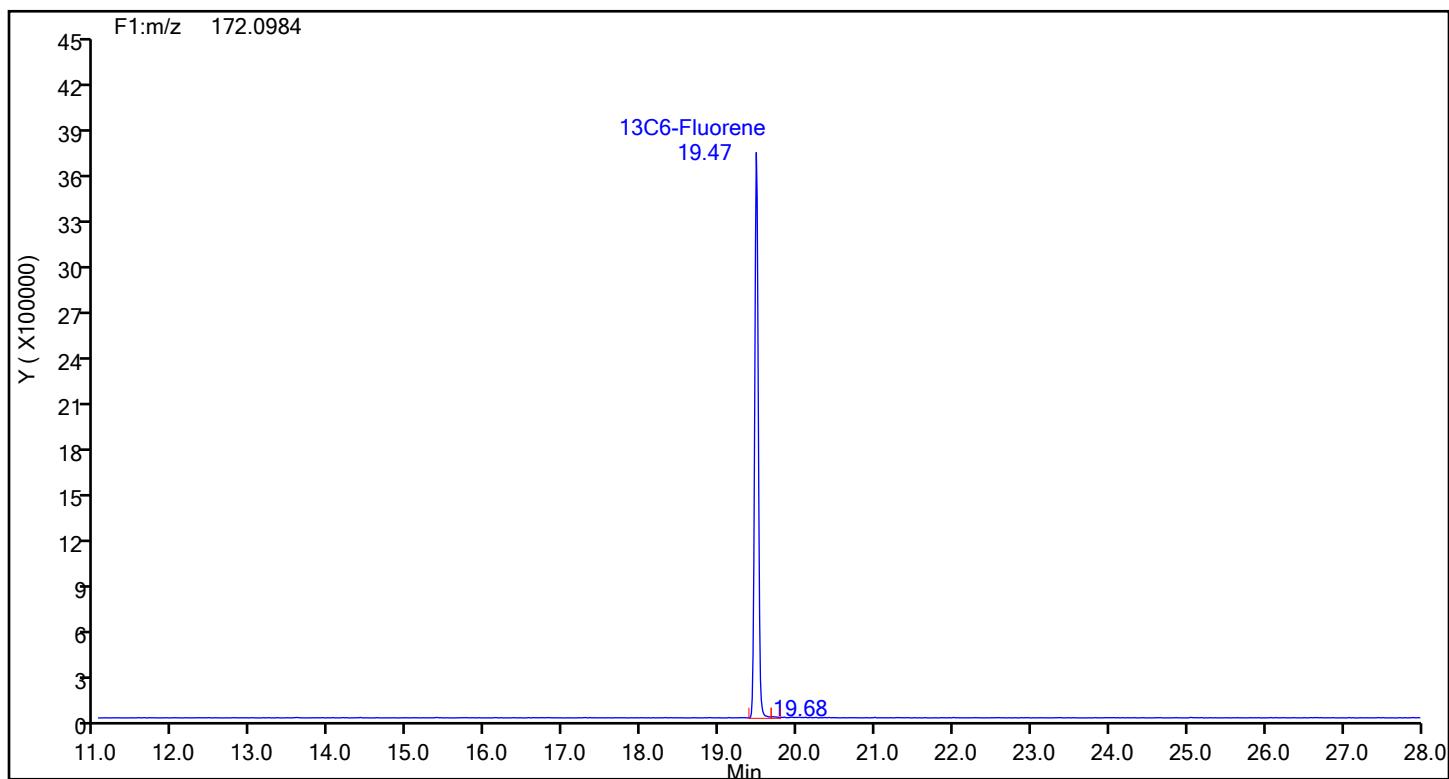
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Column Dia: 0.25 mm

## Fluorene



## Fluorene Standards



## Eurofins Knoxville

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Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

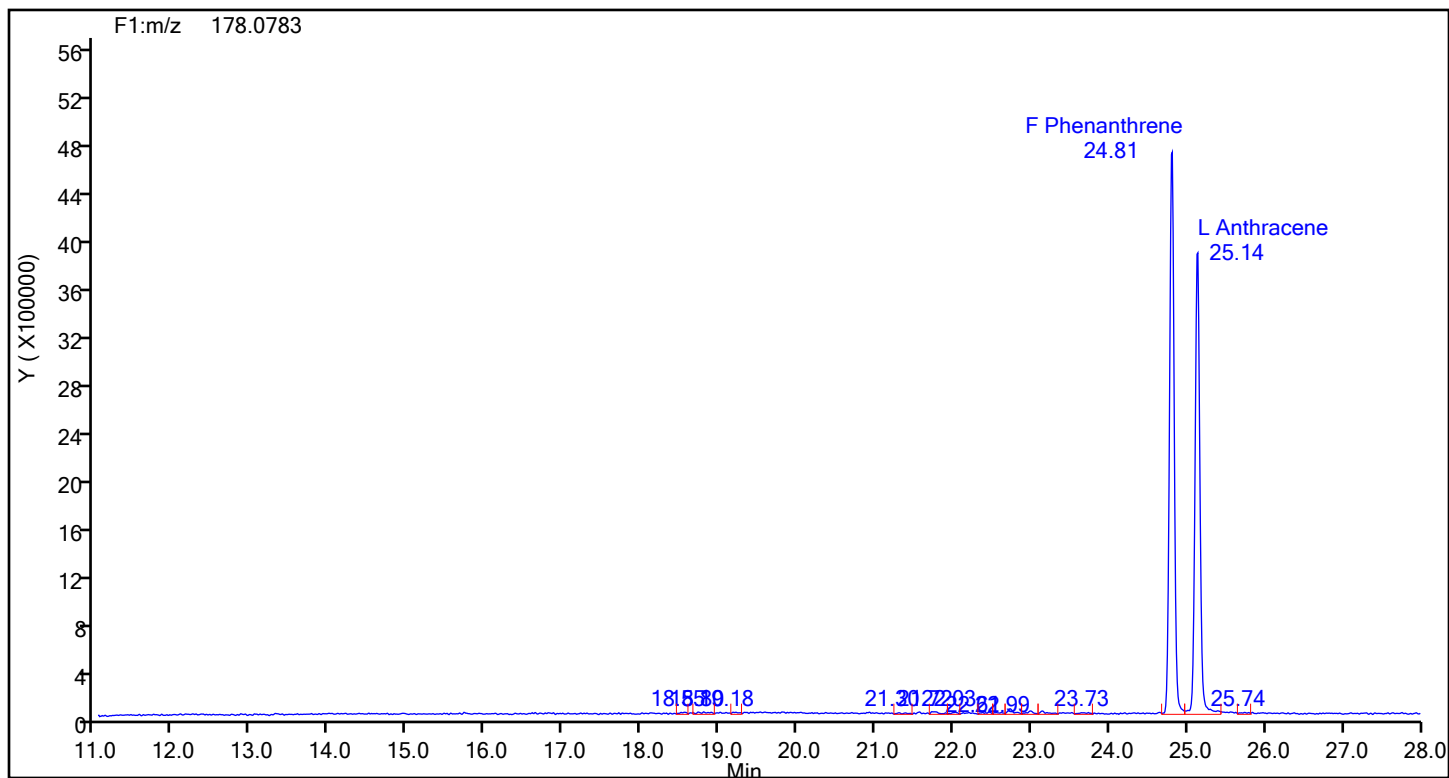
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Sample Line#: 3

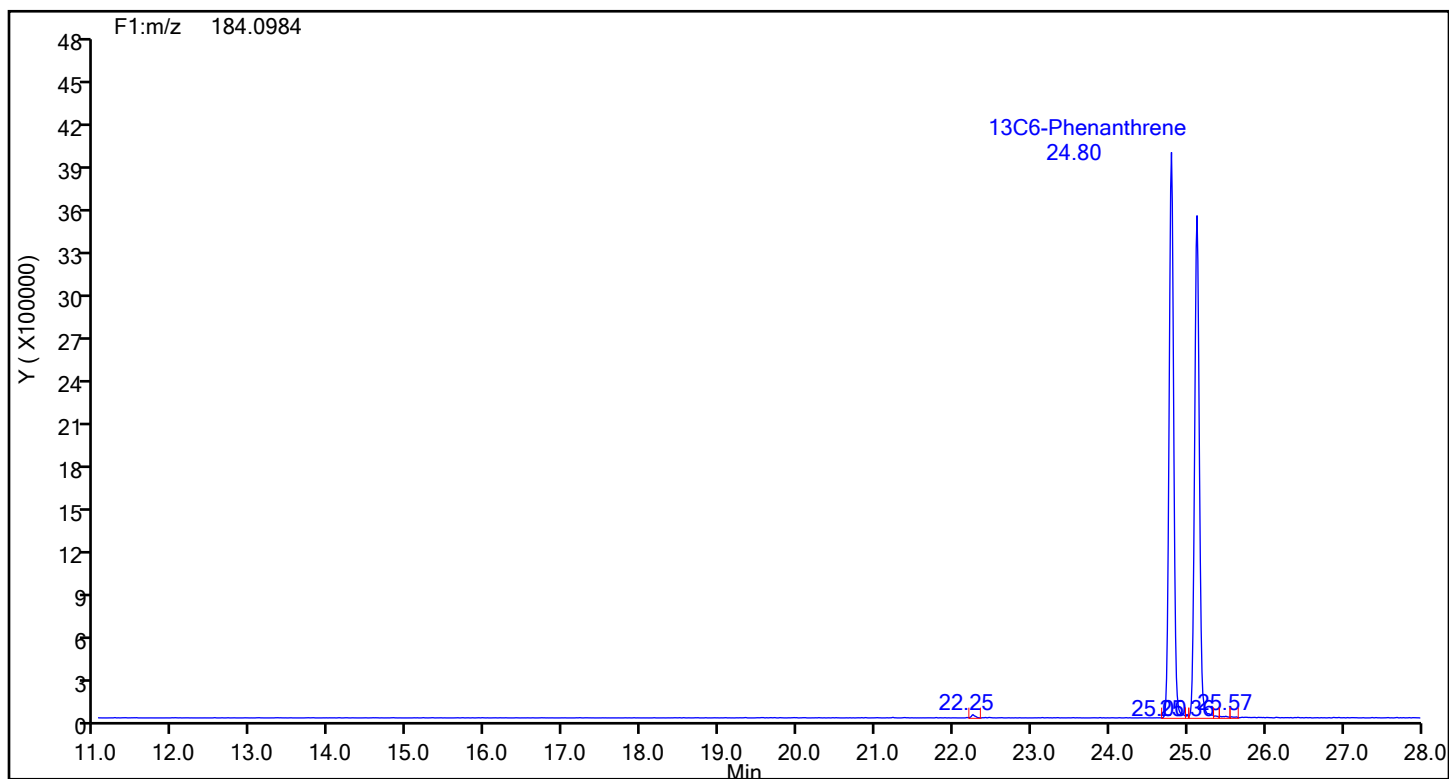
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Phenanthrene

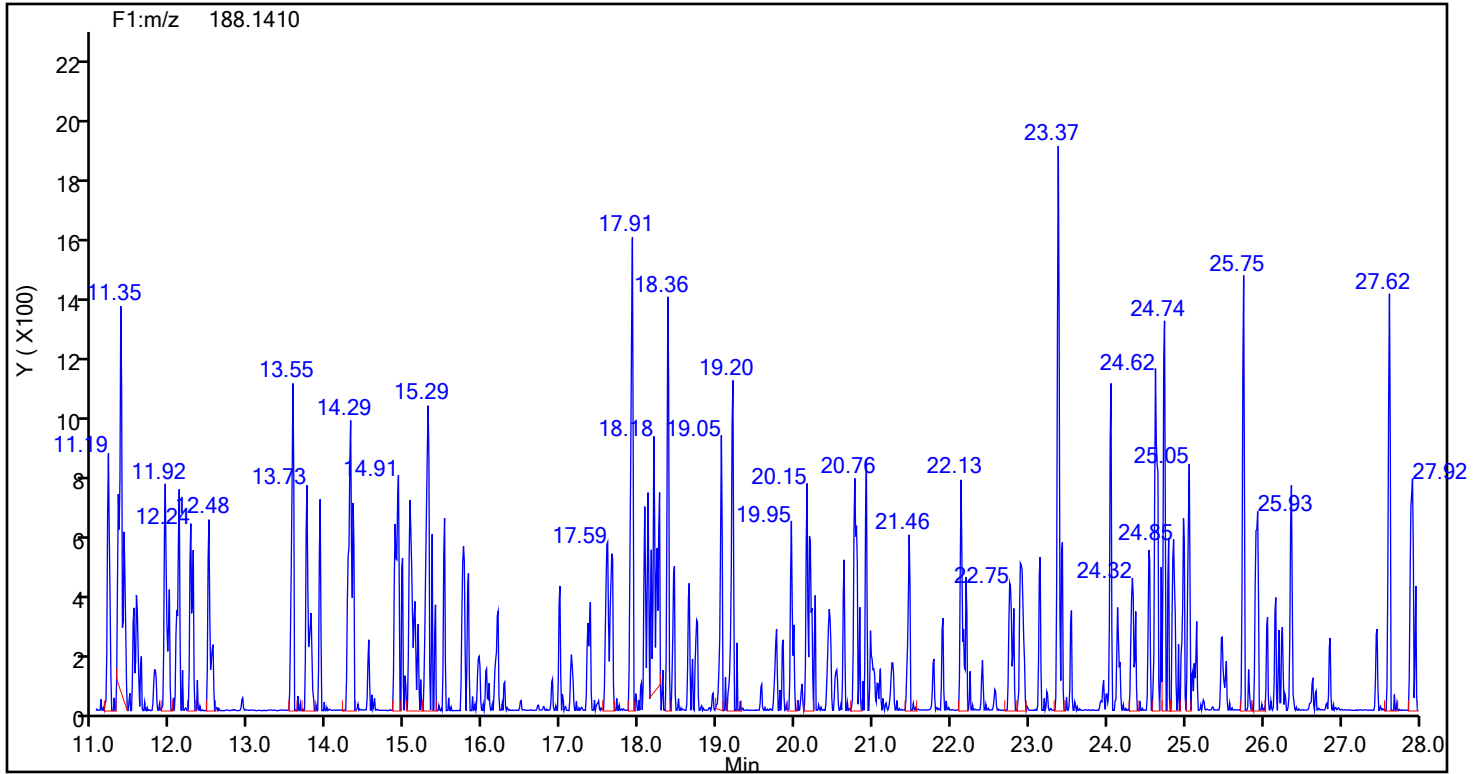


## Phenanthrene Standards

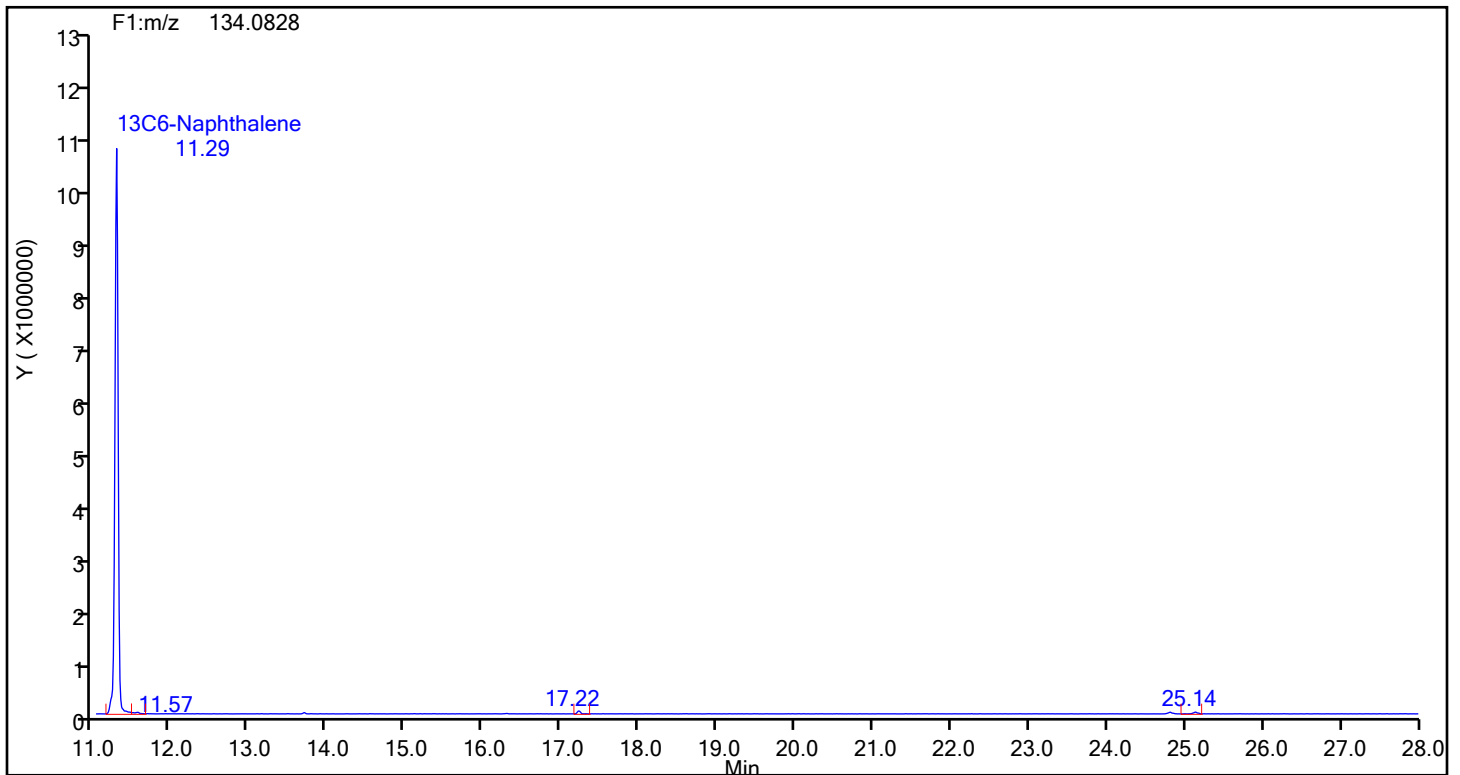


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d  
Injection Date: 10-Jul-2024 13:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Anthracin-d10

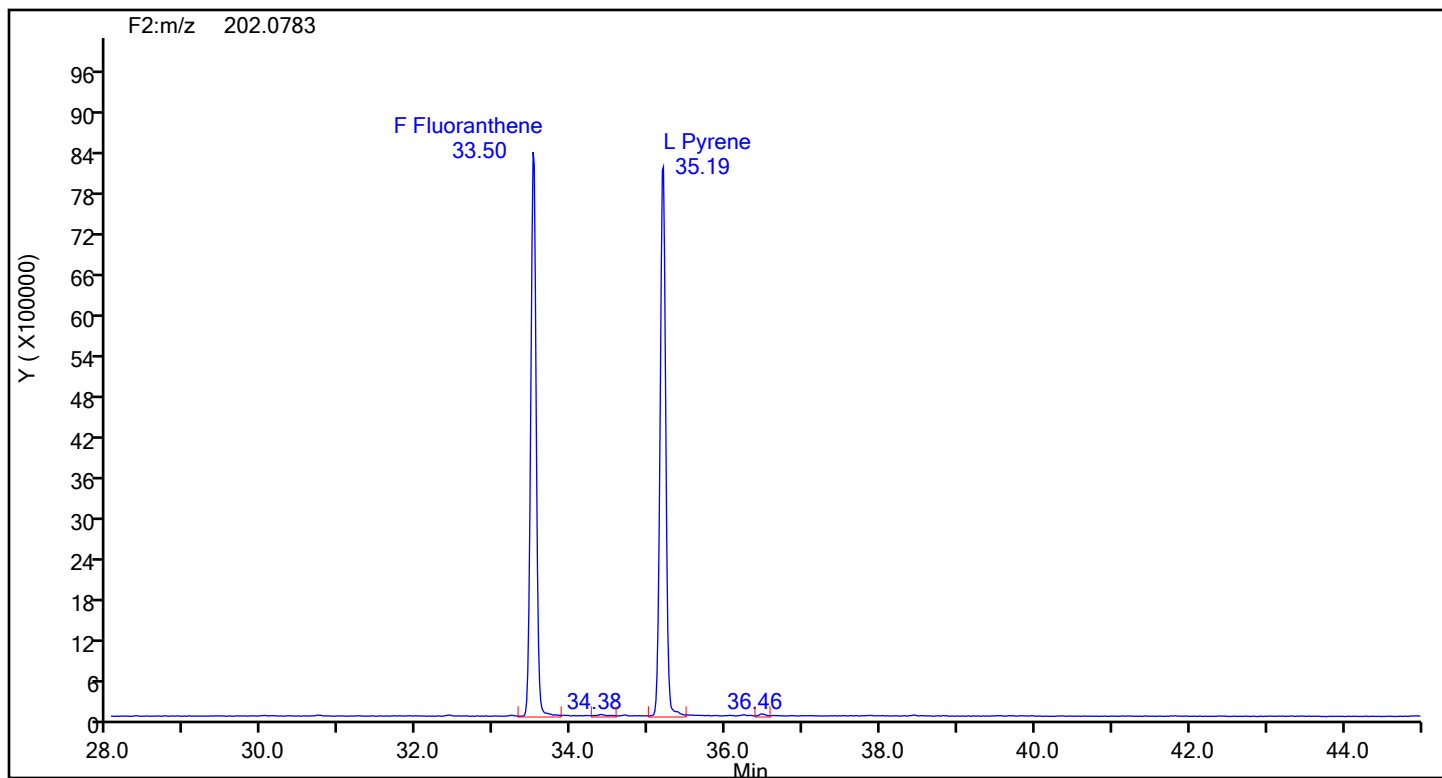


## Anthracin-d10 Standards

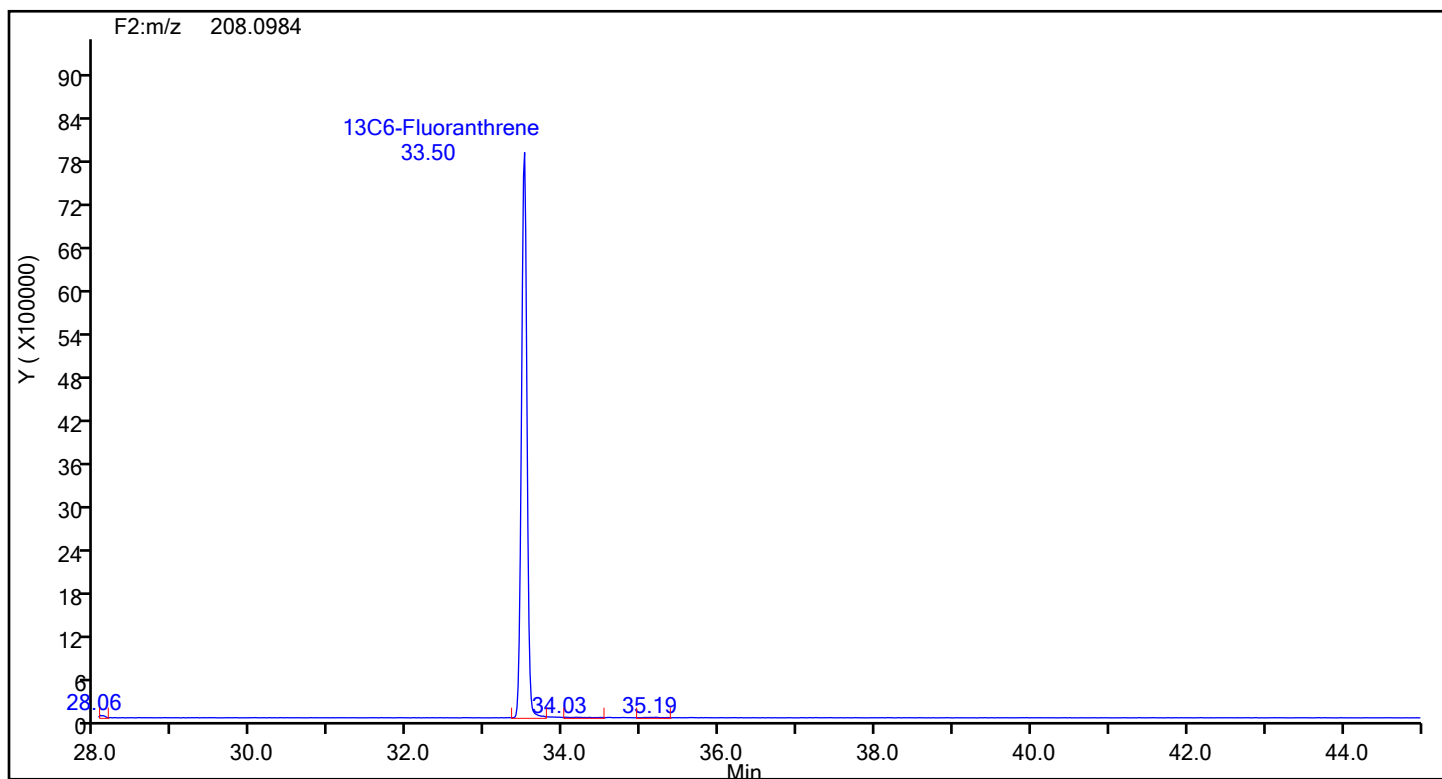


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d  
Injection Date: 10-Jul-2024 13:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm  
Fluoranthene



## Fluoranthene Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

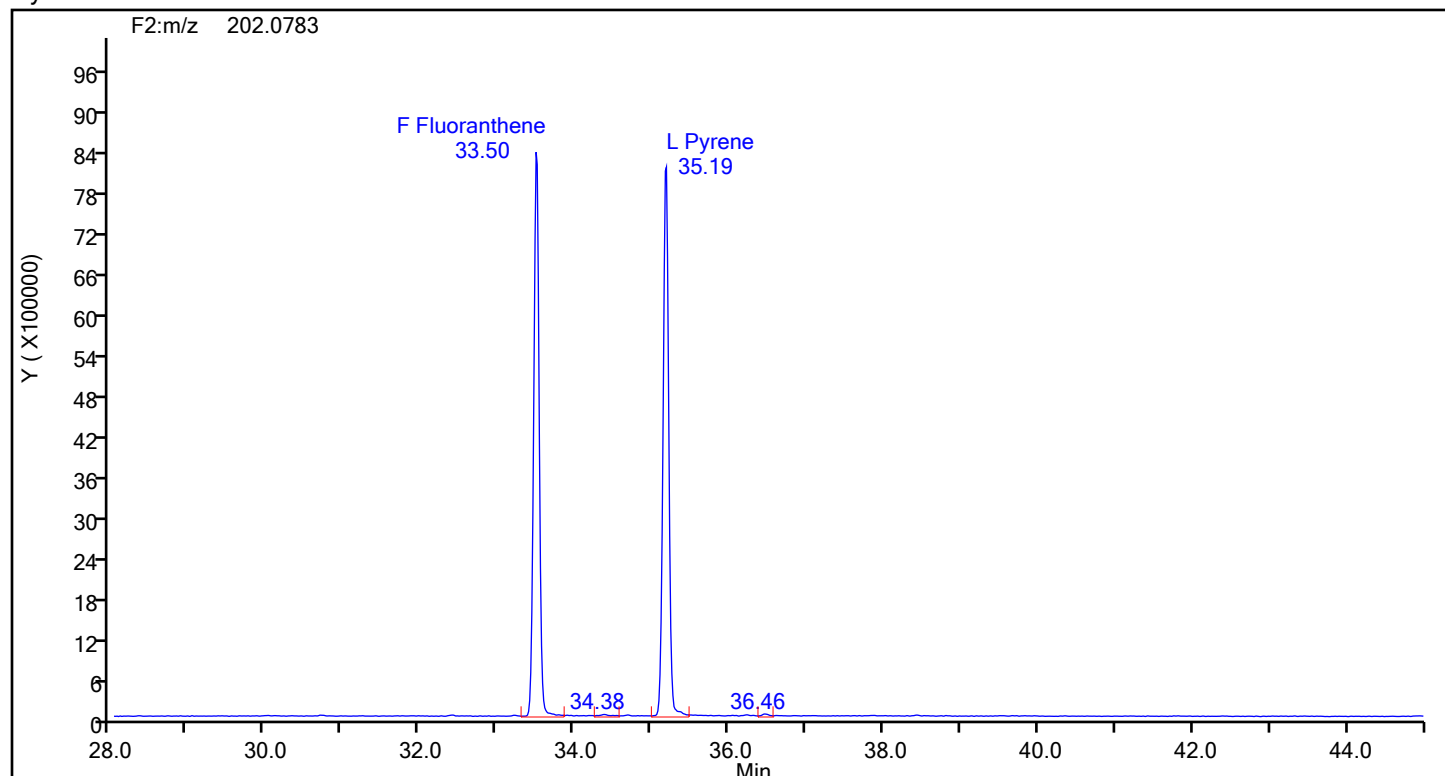
Worklist#: 88561

Sample Line#: 3

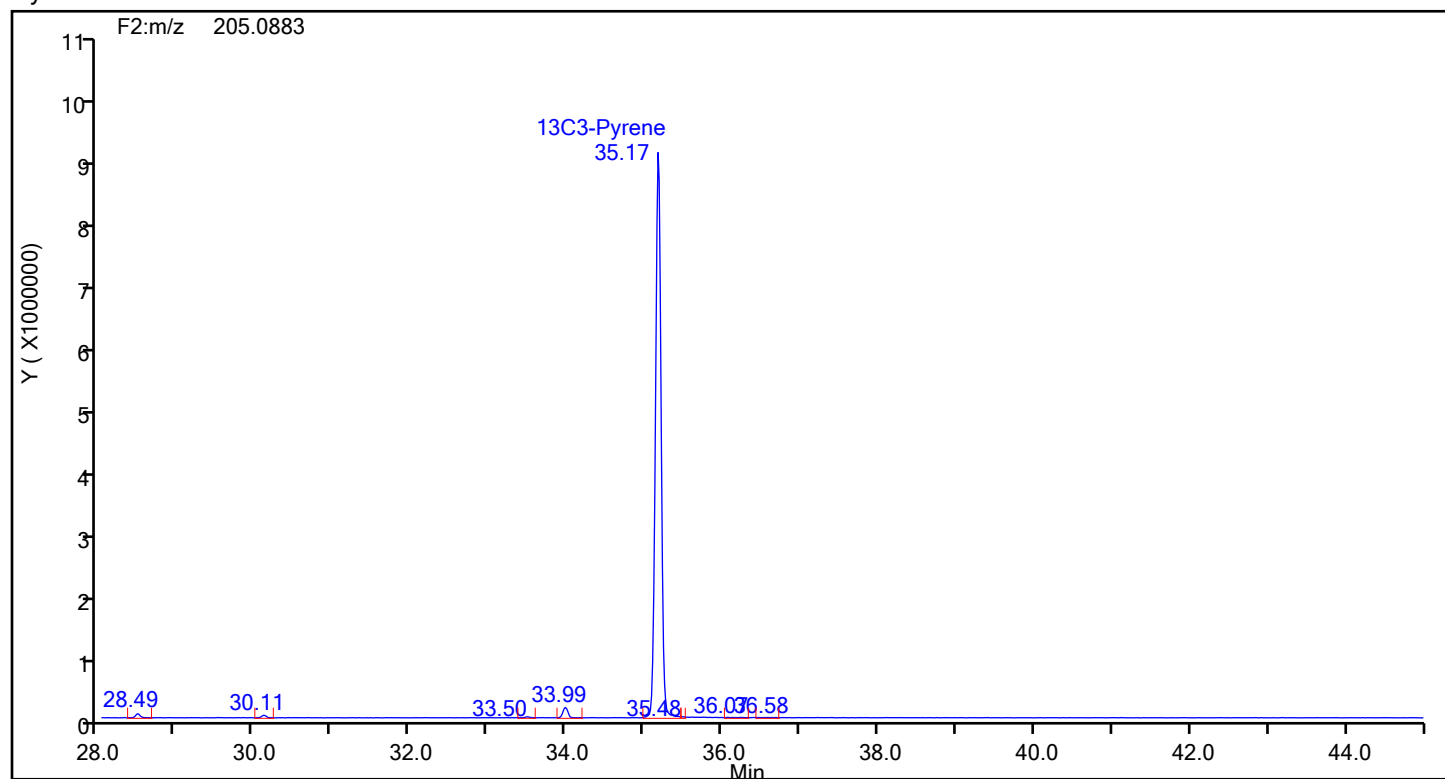
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Pyrene



## Pyrene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

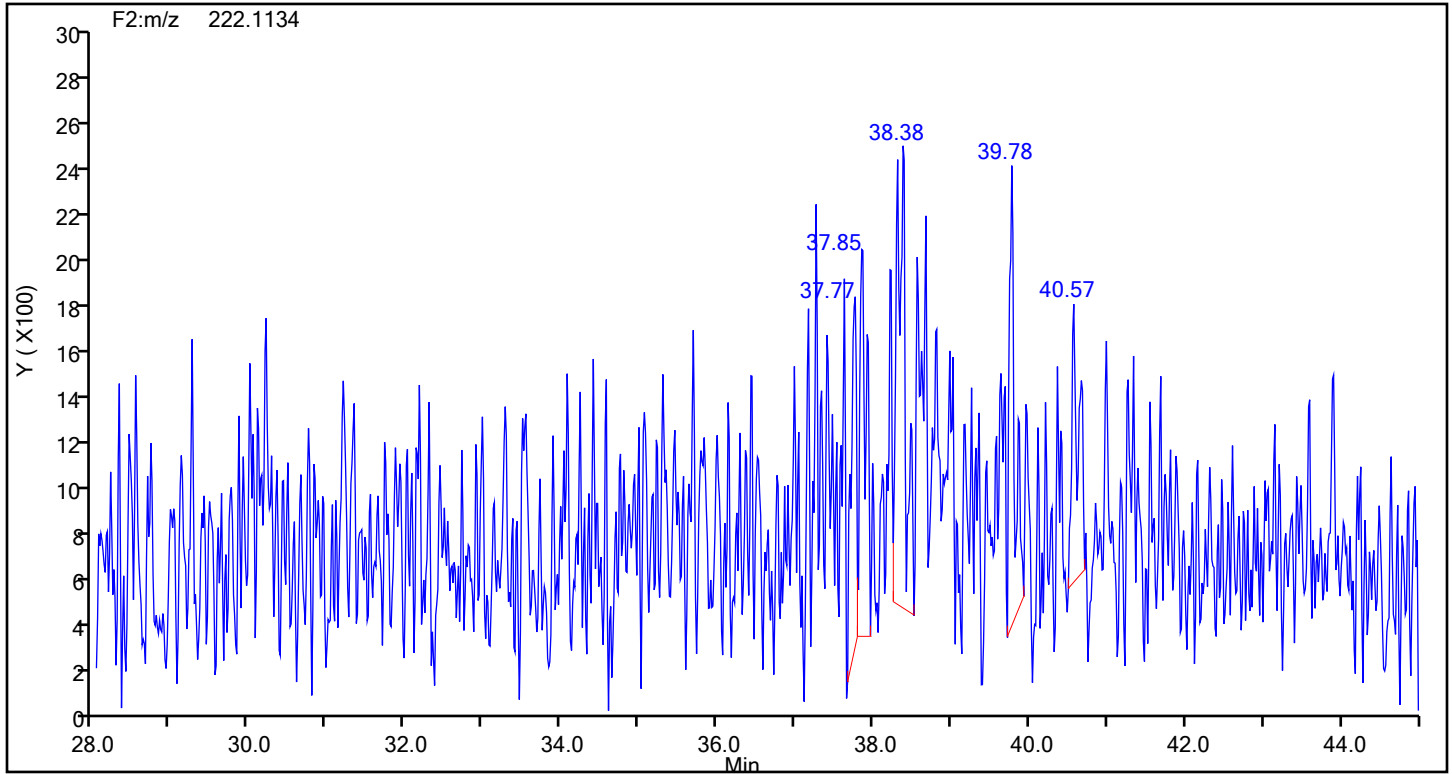
Worklist#: 88561

Sample Line#: 3

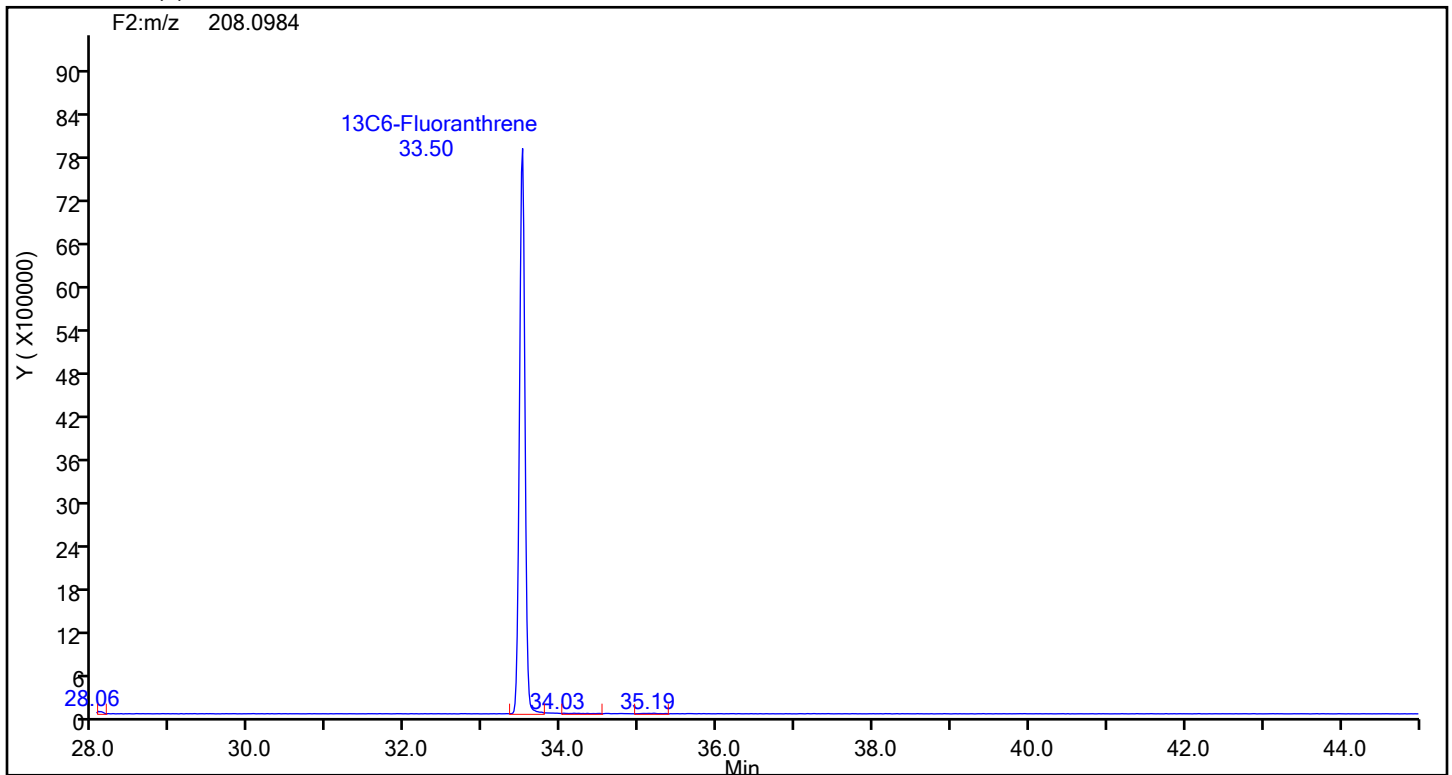
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C6-Benzo(c)fluorene



13C6-Benzo(c)fluorene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

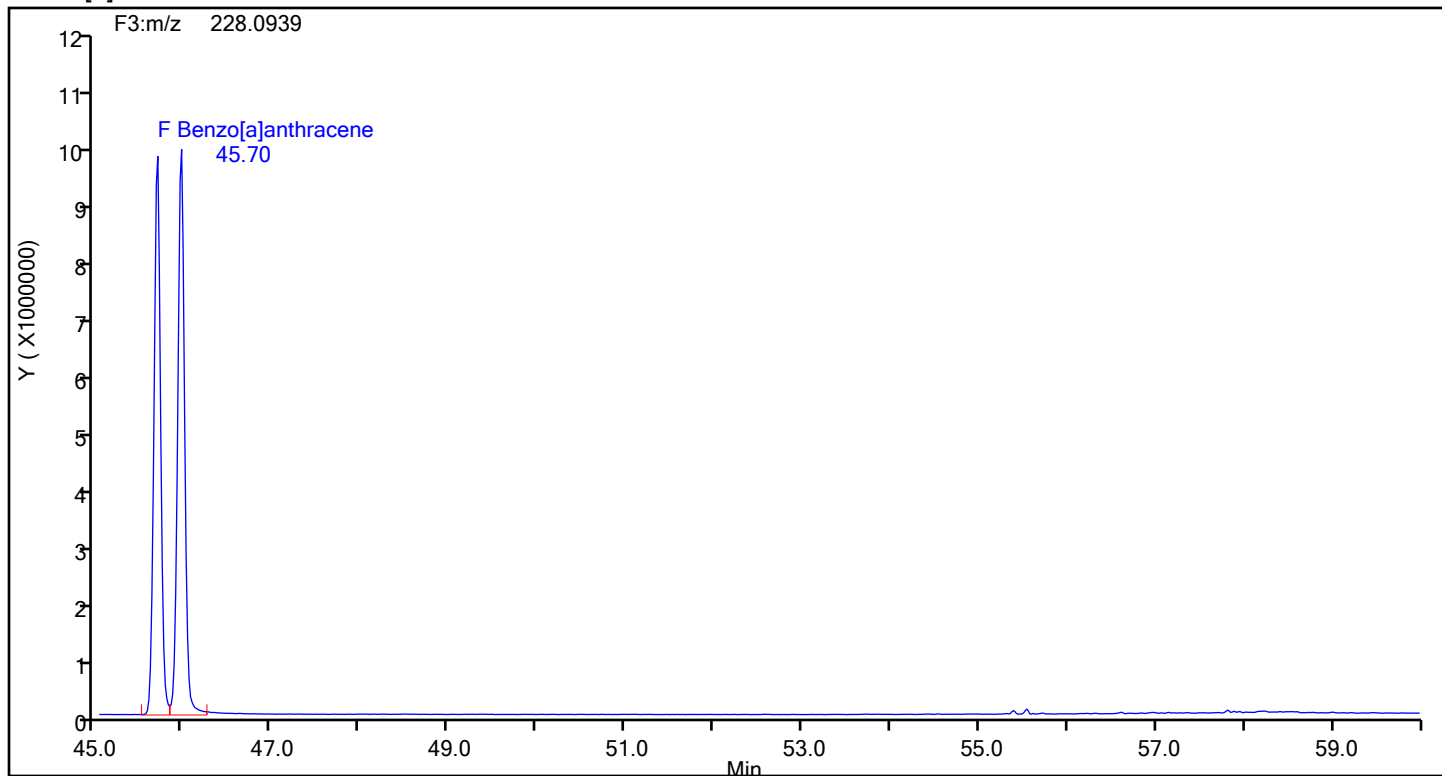
Worklist#: 88561

Sample Line#: 3

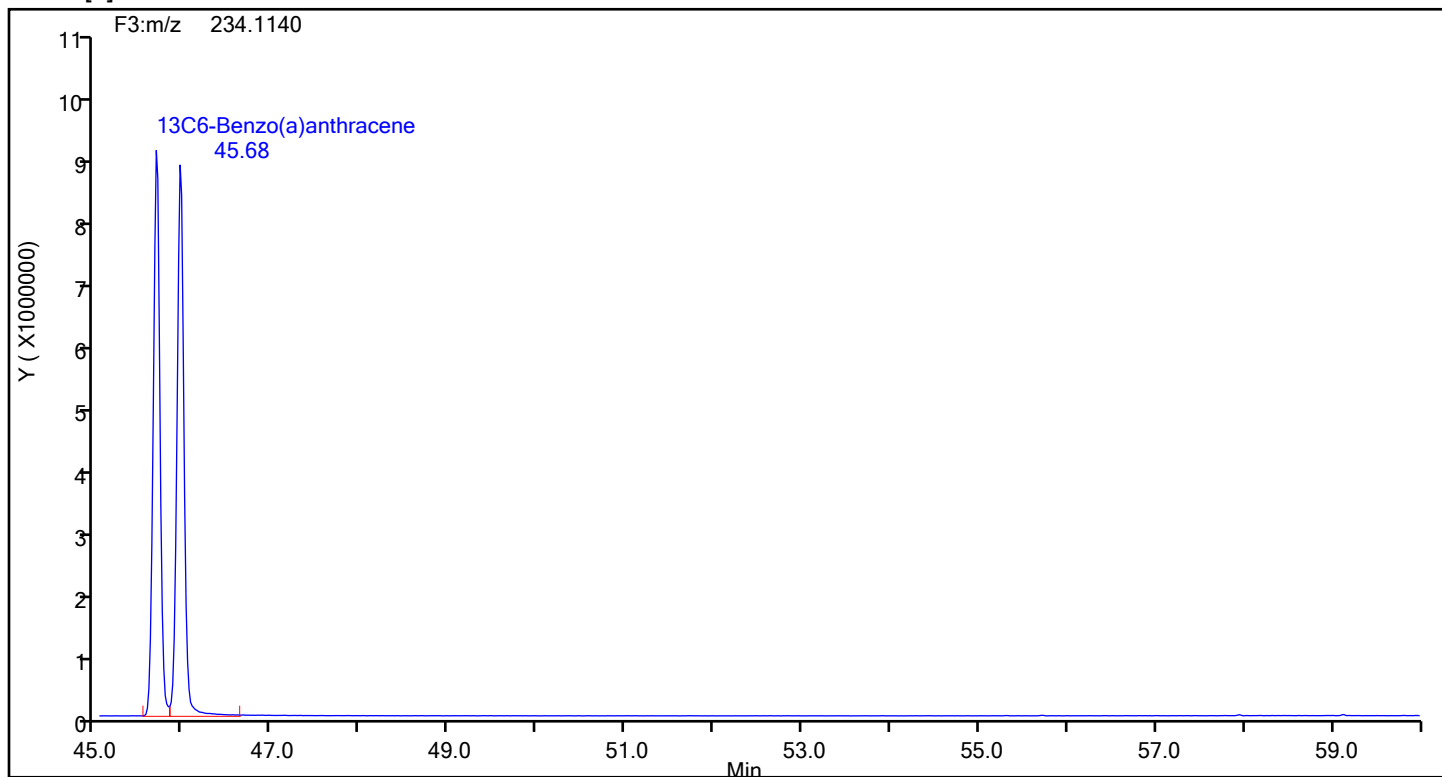
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

## Benzo[a]anthracene



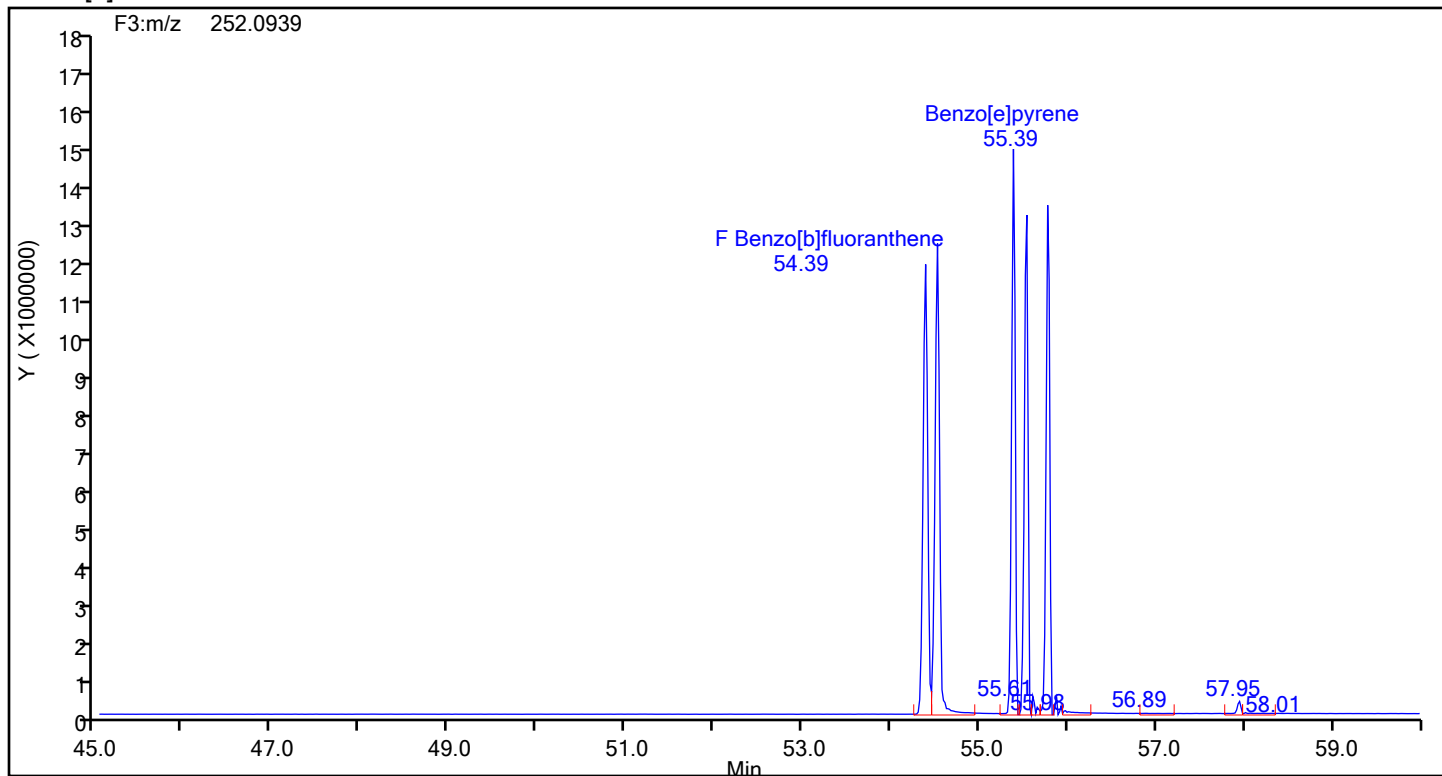
## Benzo[a]anthracene Standards



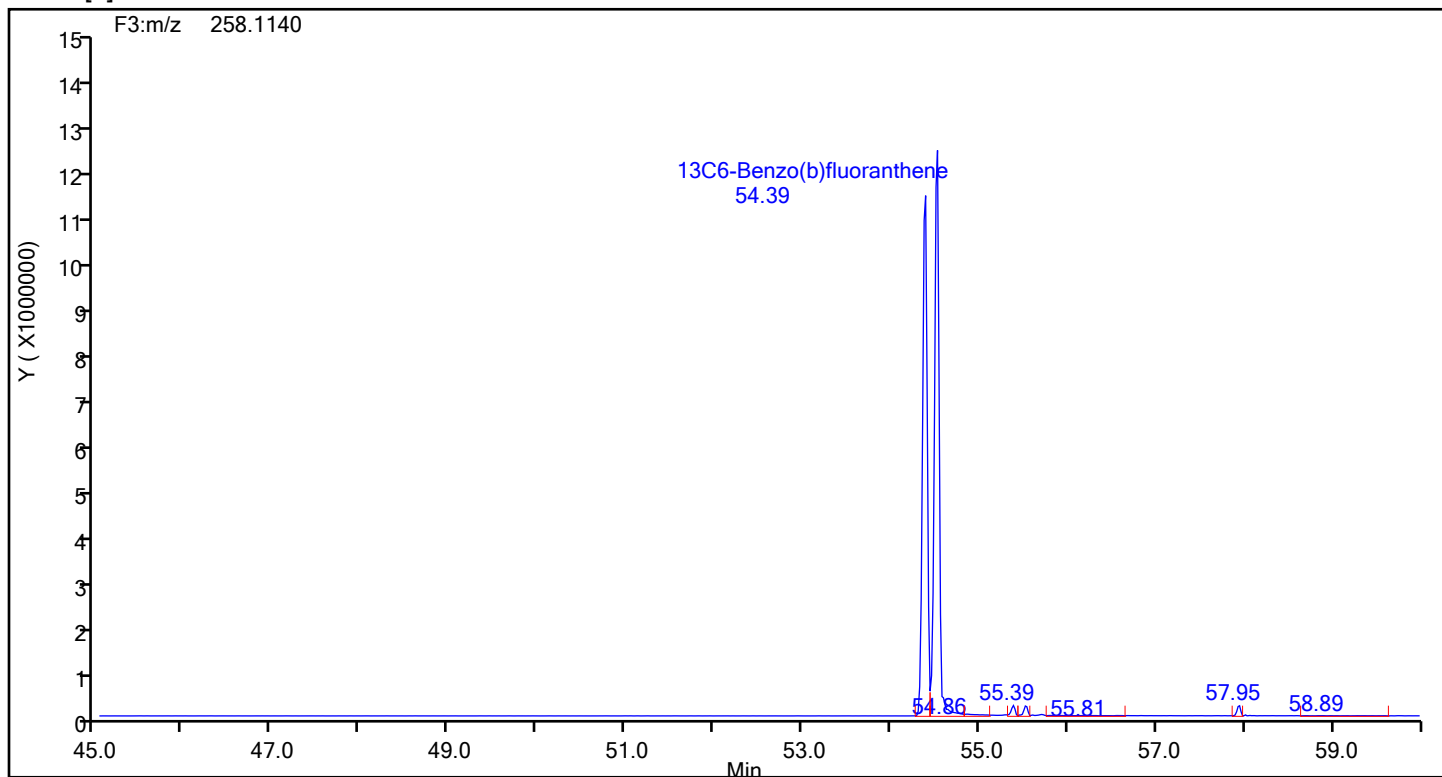
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d  
Injection Date: 10-Jul-2024 13:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[b]fluoranthene



## Benzo[b]fluoranthene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

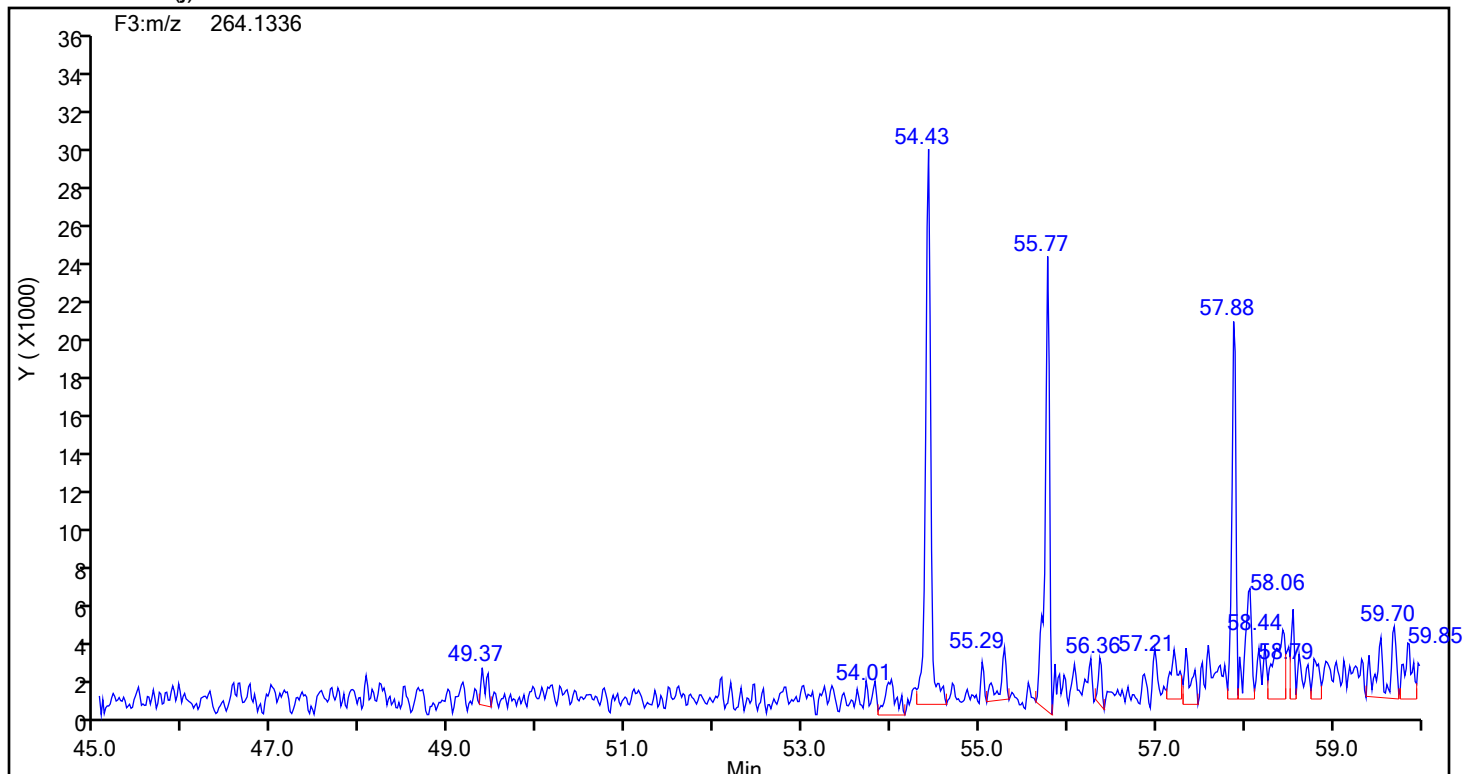
Worklist#: 88561

Sample Line#: 3

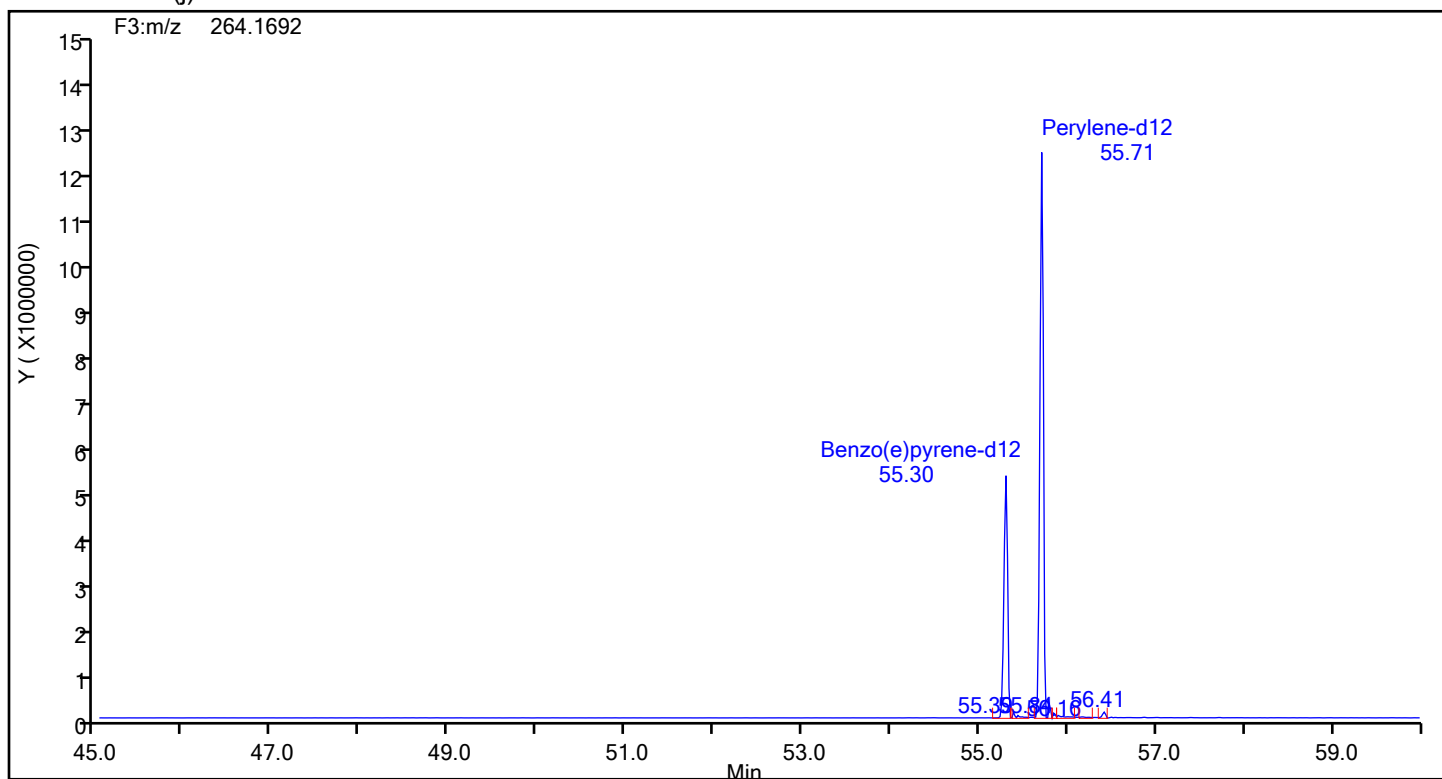
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

13C12-Benzo(j)fluoranthene



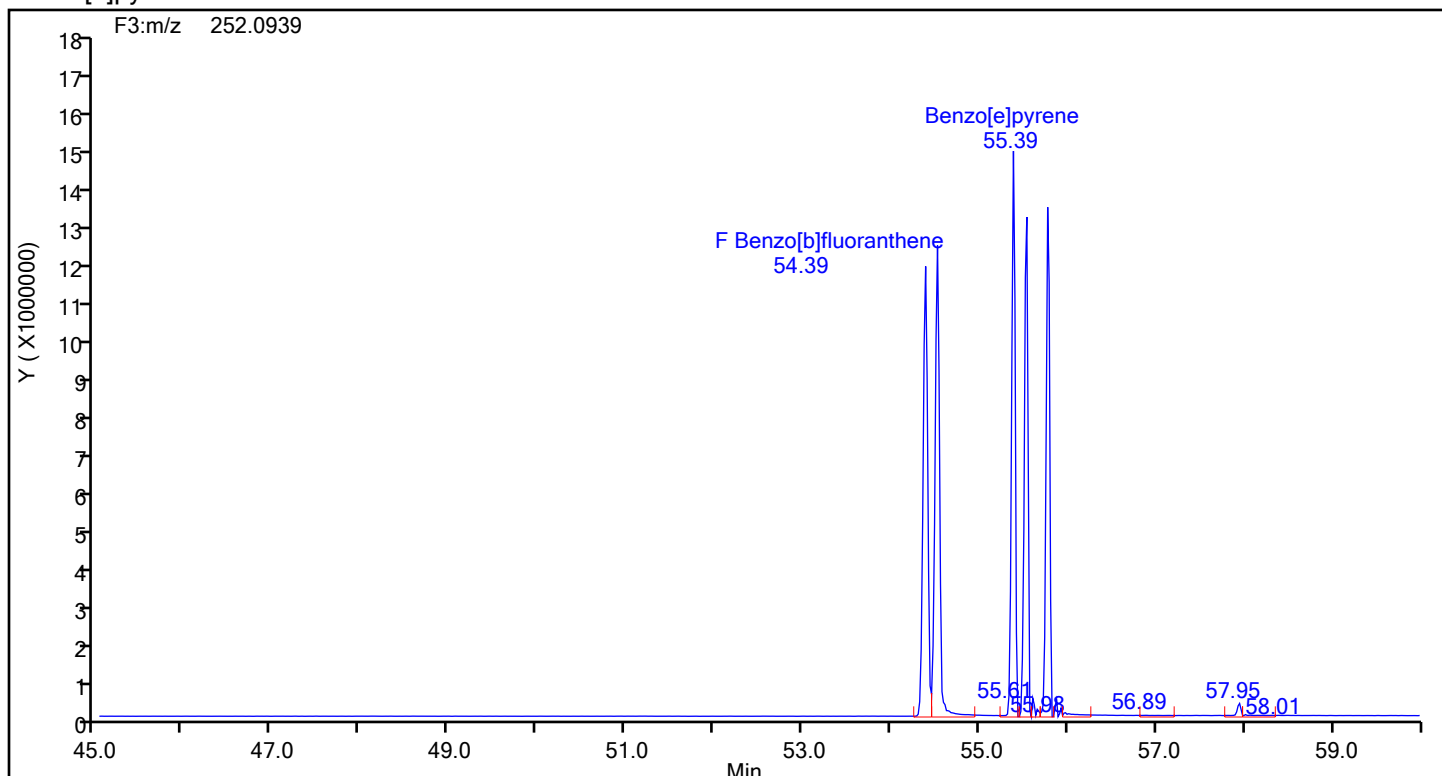
13C12-Benzo(j)fluoranthene Standards



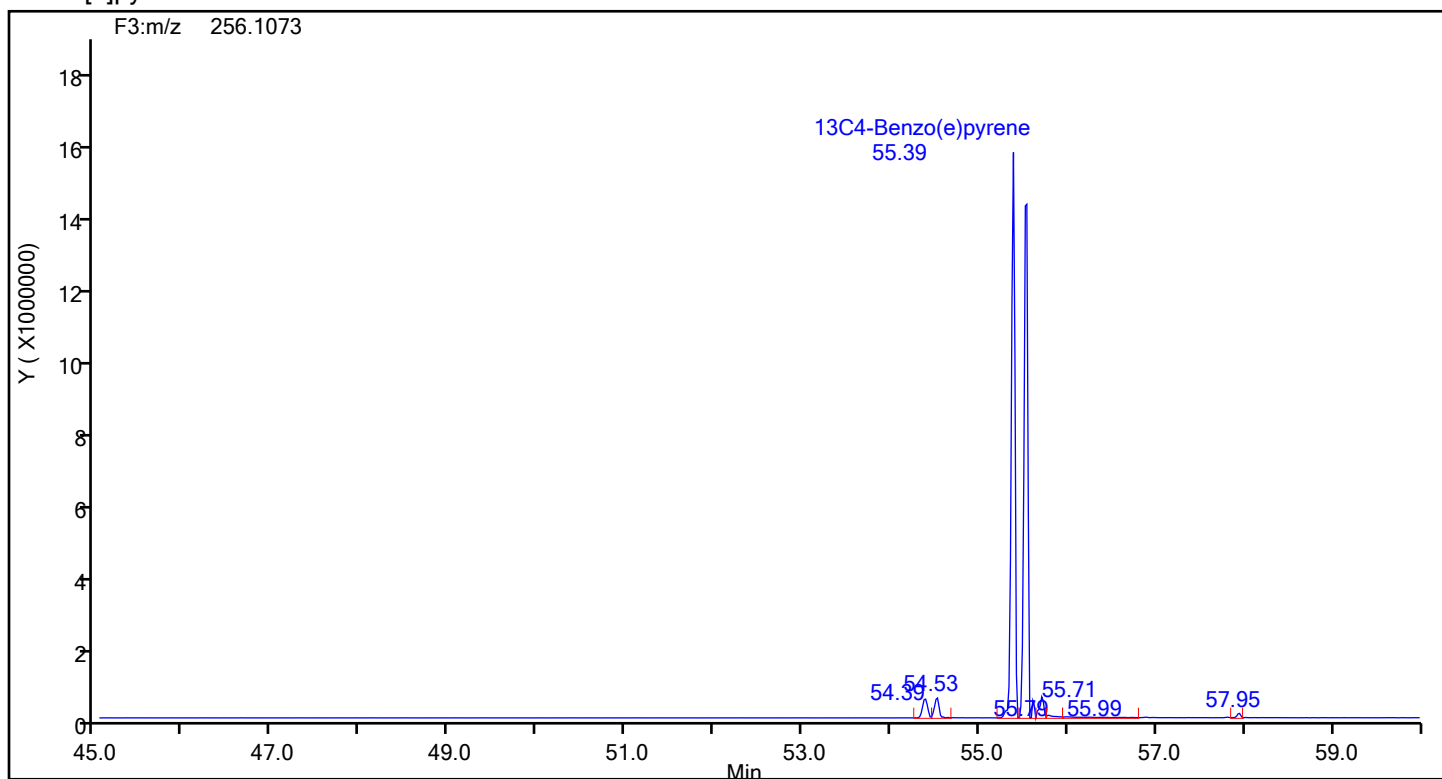
## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d  
Injection Date: 10-Jul-2024 13:00:00 Injection Vol: 1.0 ul  
Instrument ID: D3PAH Operator ID: Xcalibur\_System  
Method: EPA\_23\_\_PAH Limit Group: HR - HRPAAH ICAL  
Client ID:  
Worklist#: 88561 Sample Line#: 3  
Column Type: Restek-5Sil MS 25um Column Dia: 0.25 mm

## Benzo[e]pyrene



## Benzo[e]pyrene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

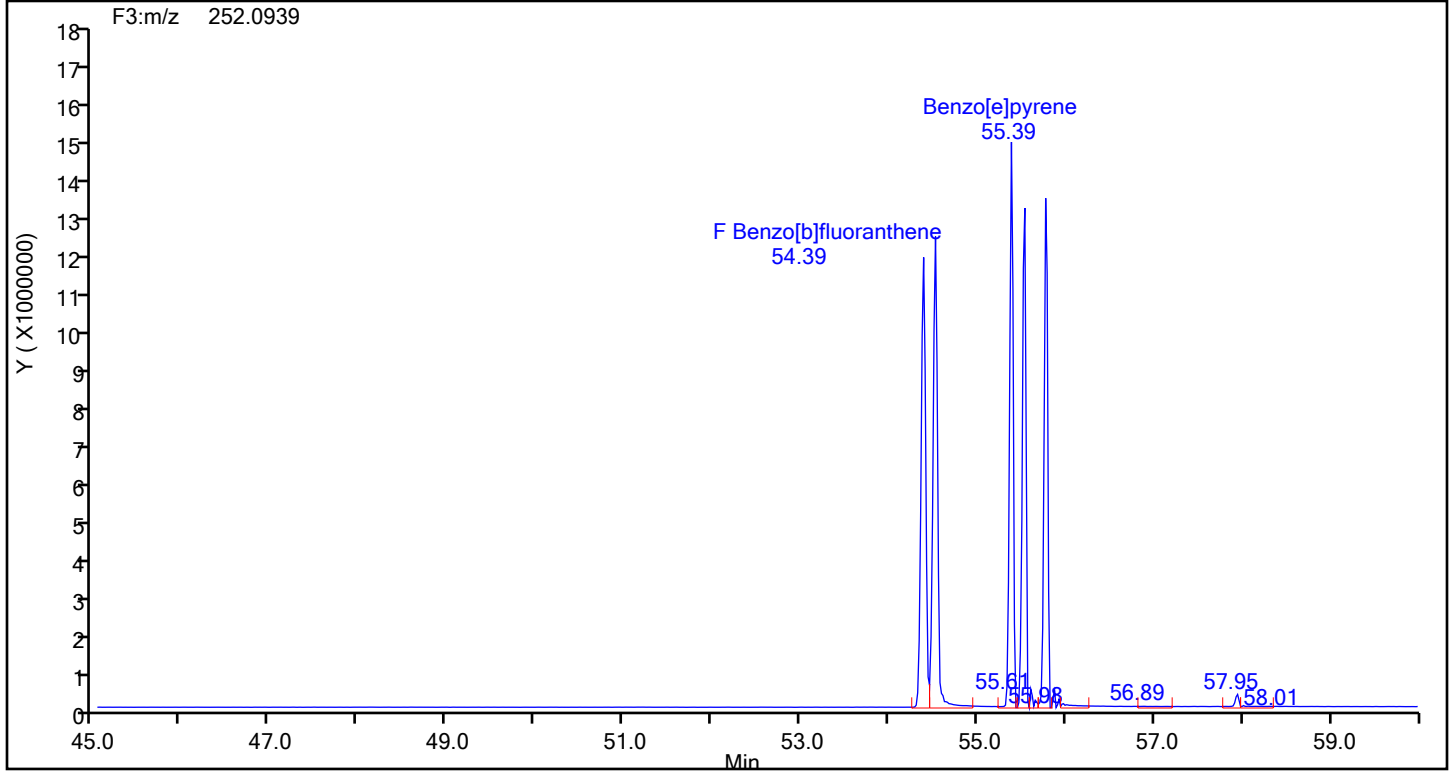
Worklist#: 88561

Sample Line#: 3

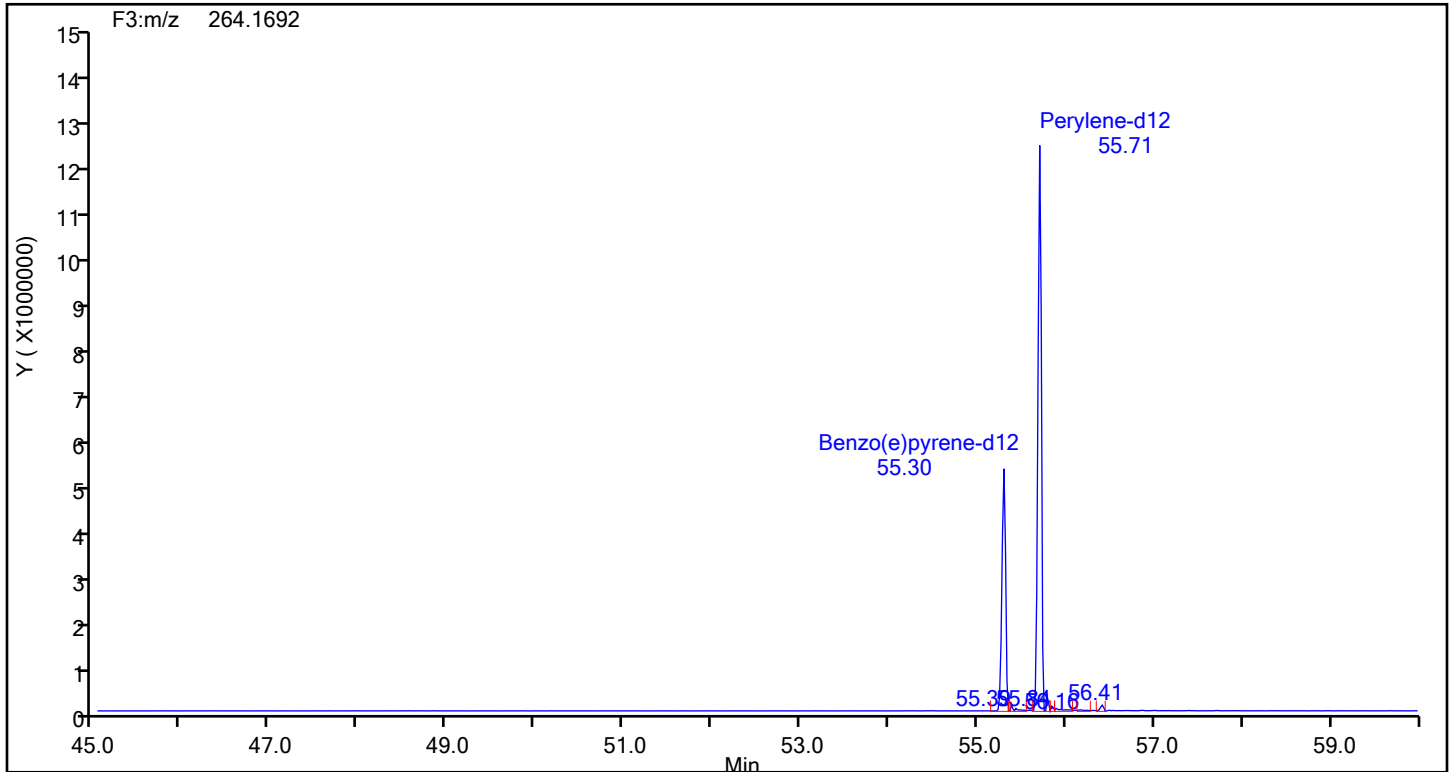
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Perylene



Perylene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

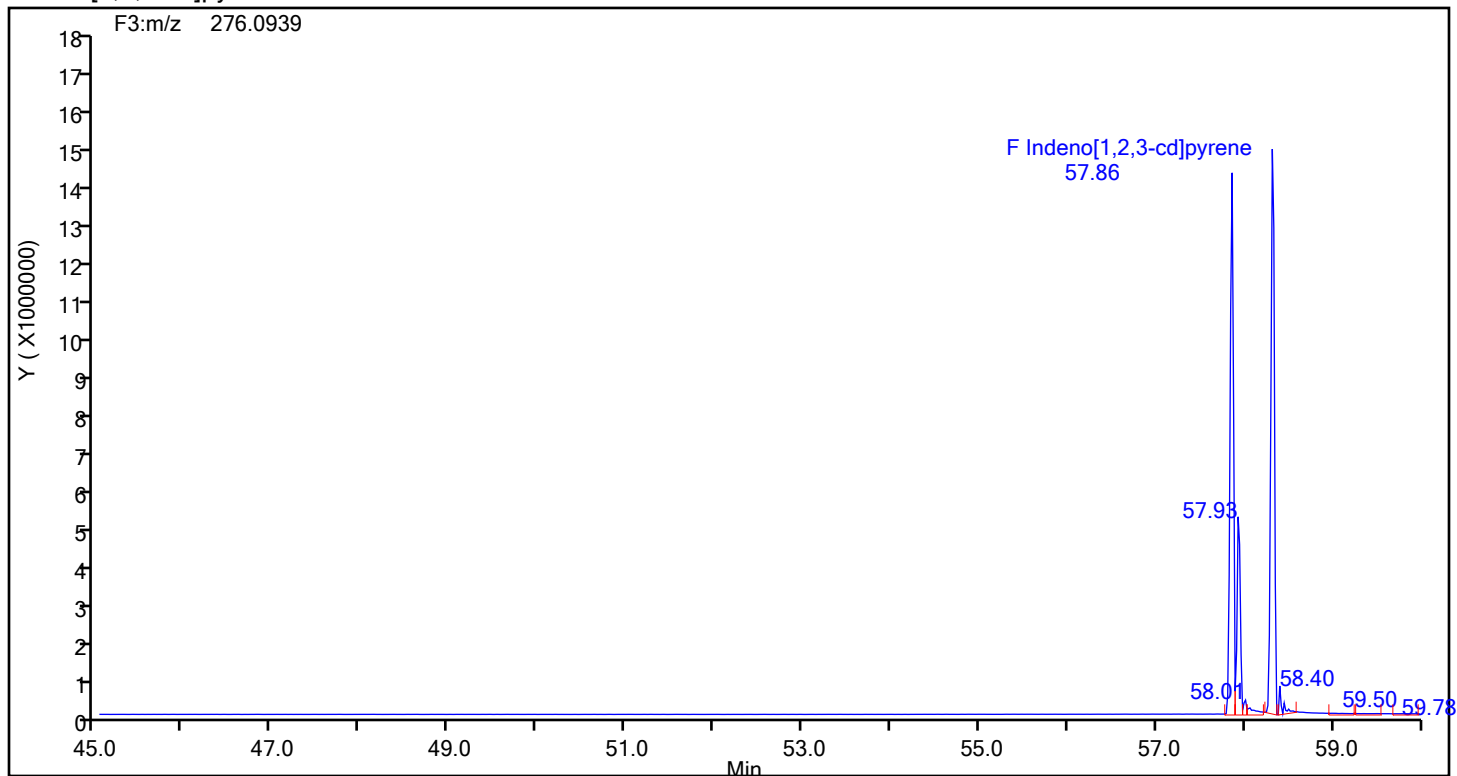
Worklist#: 88561

Sample Line#: 3

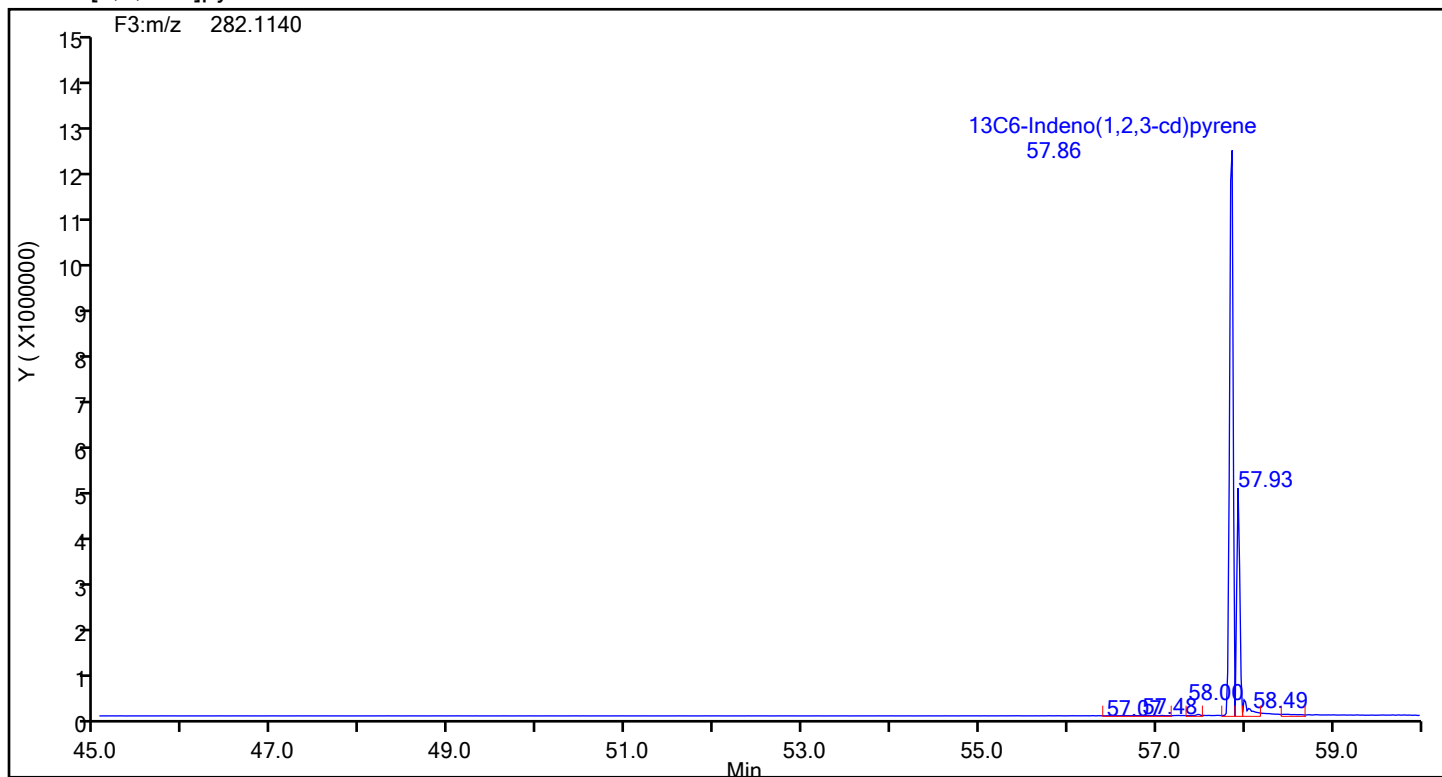
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Indeno[1,2,3-cd]pyrene



Indeno[1,2,3-cd]pyrene Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

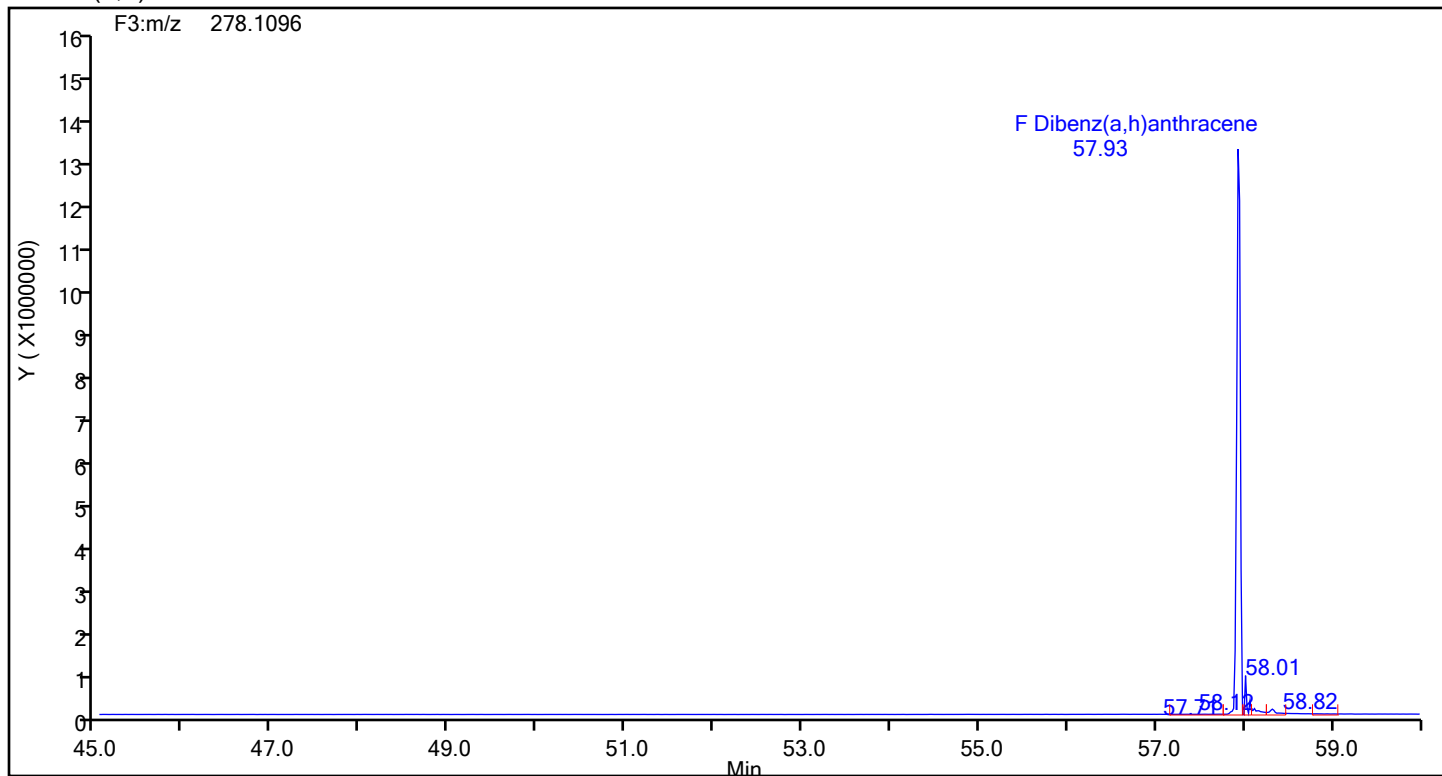
Worklist#: 88561

Sample Line#: 3

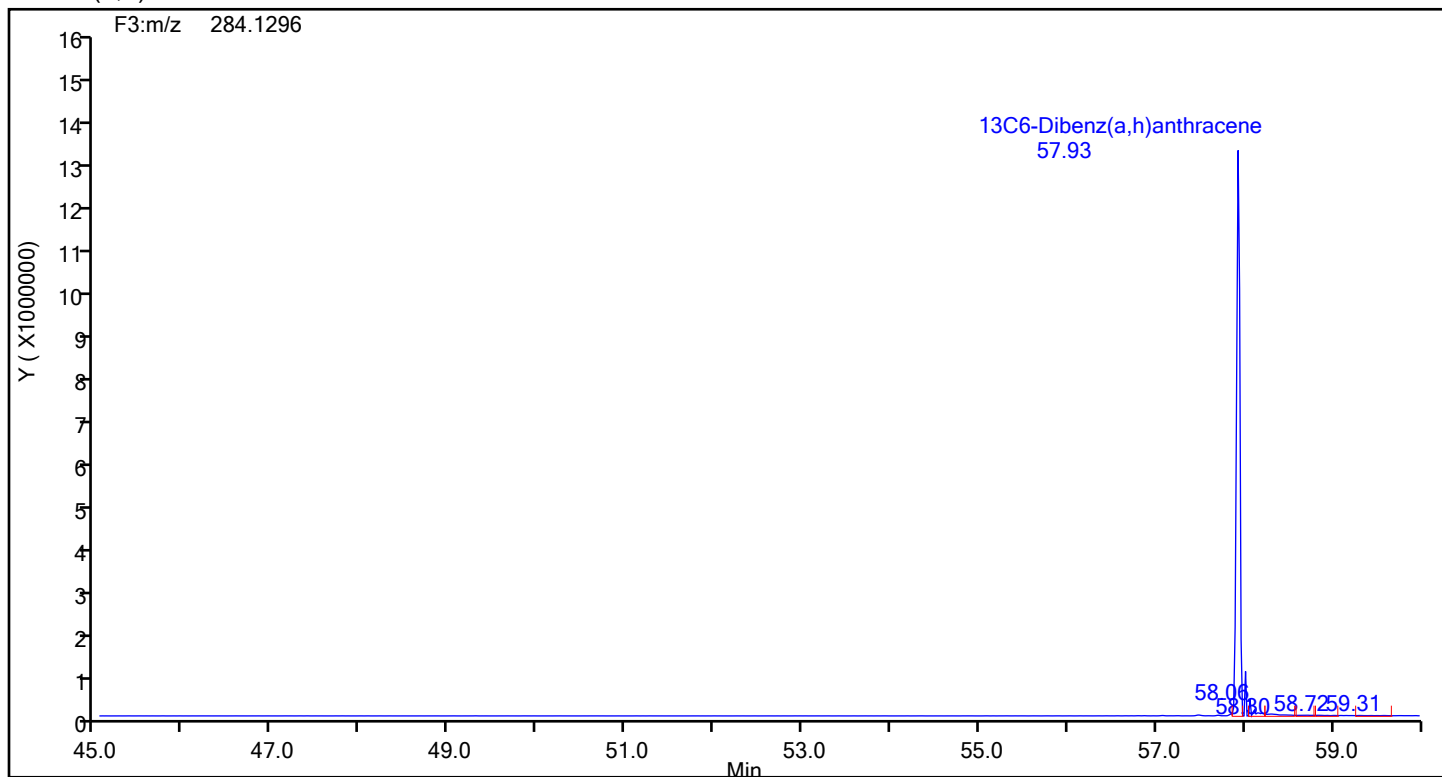
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Dibenz(a,h)anthracene



Dibenz(a,h)anthracene Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D3PAH\20240710-33436.b\LCSD140-8762020-Ba.d

Injection Date: 10-Jul-2024 13:00:00

Injection Vol: 1.0 ul

Instrument ID: D3PAH

Operator ID: Xcalibur\_System

Method: EPA\_23\_\_PAH

Limit Group: HR - HRPAAH ICAL

Client ID:

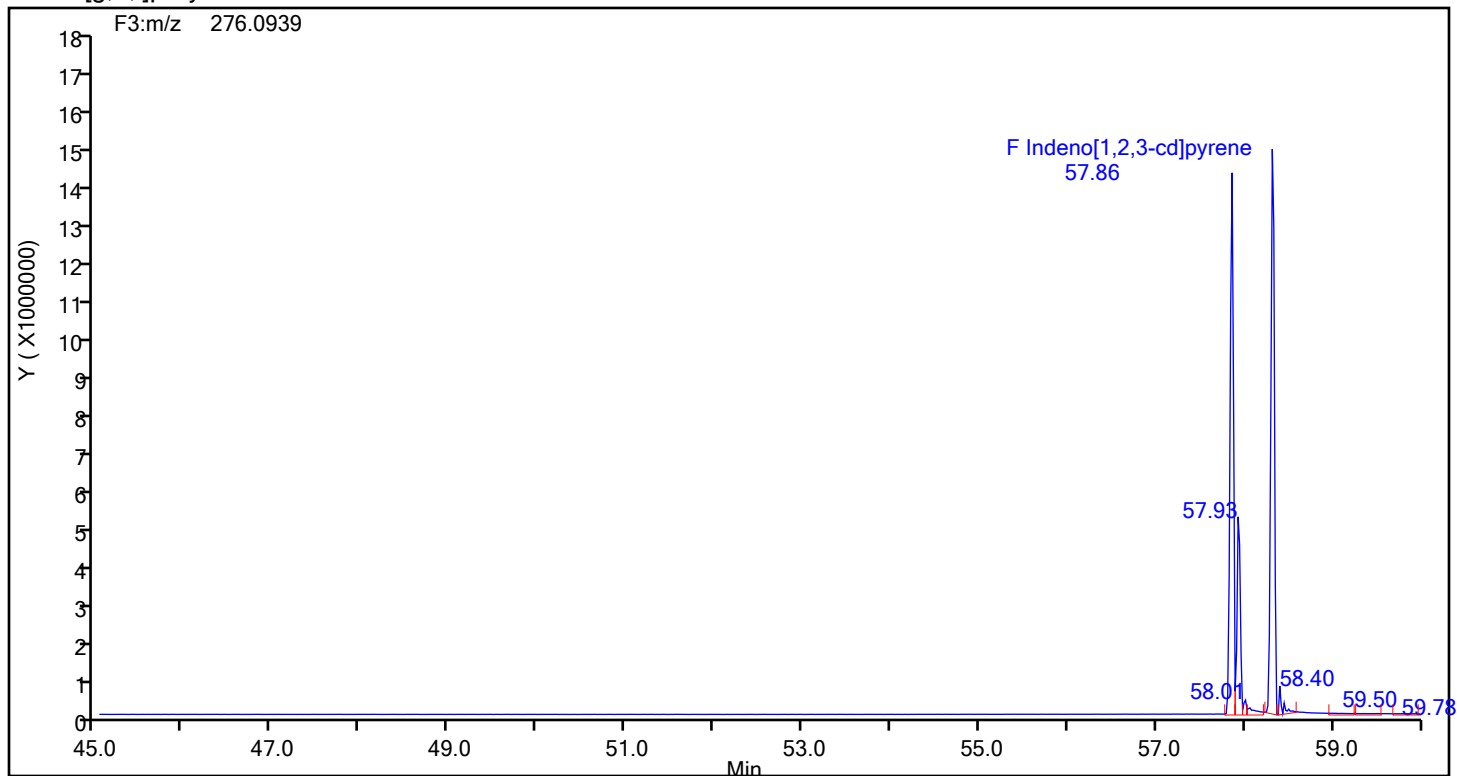
Worklist#: 88561

Sample Line#: 3

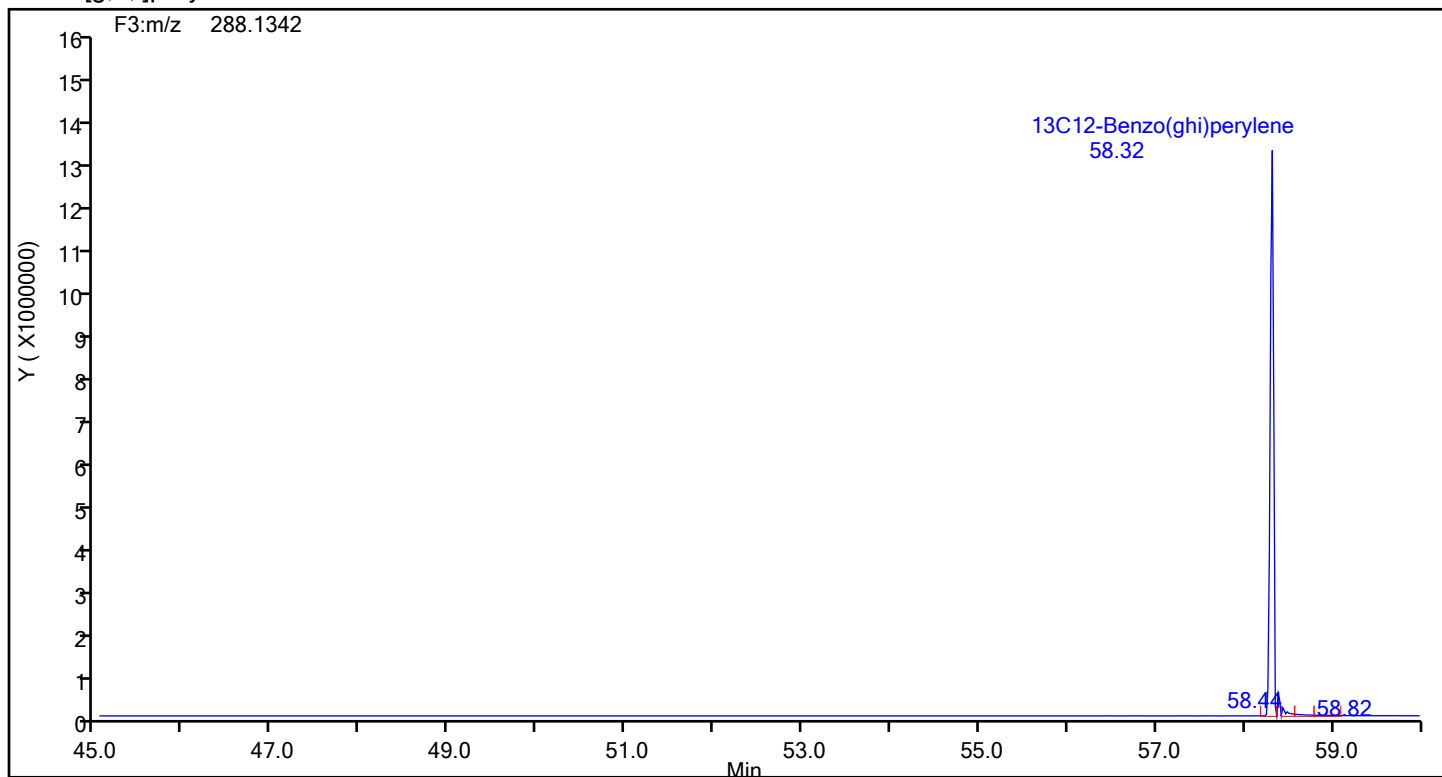
Column Type: Restek-5Sil MS 25um

Column Dia: 0.25 mm

Benzo[g,h,i]perylene



Benzo[g,h,i]perylene Standards



# HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Start Date: 06/19/2024 16:34

Analysis Batch Number: 87843 End Date: 06/20/2024 02:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 140-87843/1		06/19/2024 16:34	1	d3240619ic1.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/2		06/19/2024 17:38	1	d3240619ic2.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/3		06/19/2024 18:42	1	d3240619ic3.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/4		06/19/2024 19:47	1	d3240619ic4.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/5		06/19/2024 20:51	1	d3240619ic5.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/6		06/19/2024 21:56	1	d3240619ic6.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/7		06/19/2024 23:00	1	d3240619ic7.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/8		06/20/2024 00:04	1	d3240619ic8.d	Rxi-5SilMS 25 0.25 (mm)
IC 140-87843/9		06/20/2024 01:09	1	d3240619ic9.d	Rxi-5SilMS 25 0.25 (mm)
ICV 140-87843/10		06/20/2024 02:46	1	d3240619icv.d	Rxi-5SilMS 25 0.25 (mm)

## Eurofins TestAmerica Knoxville Initial Calibration Review Checklist

Method: 1699 by KNOX-ID-0019, Rev. 0

11RPAH

Instrument:	D3PAH		1699 Pesticide
Analysis Date:	4/20/24	TALS Batch / Event #	87843 / 5149
Mass Res Check Time:	11:18		/
Chrom WL#:	33168		/

Chrom Worklist/Peak Review	1 <sup>st</sup>	Comments/NCM#	2 <sup>nd</sup>
1.Re-read each limit group in the Chrom method.	✓		
2.Are the reagents & init./final vol. correct?	✓		/
3.First levels "unlock/clear" or "unlock/clear by sublist" as appropriate?	✓		/
4.Are the Cal Levels & groups correct in WL?	✓		/
5.Was the mass resolution documented at the beginning of the initial calibration?	✓		/
6.Was the instrument resolution <del>&gt;8,000</del> <b>&gt;10,000</b> throughout the FC43?	✓		/
7.Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		/
8.Have the ICAL mixes 1-9 been analyzed using the installed column to assign method retention times and MID switch points?	✓		/
9.Are the calibration standard solutions at the concentrations specified in the SOP?	✓	* in development	/
10.At least 5 points used in the calibration (6 for quadratic)?			/
11.Does the lowest active point support the RL?	✗	NA in development	/
<del>12.Was the absolute retention time for Methoxychlor greater than 39 minutes in the CSS standard?</del>	NA		/
13.Were all standards injected within 12 hours of the time of the mass resolution check?	✓		/
14.Was the ICAL high point standard checked for saturation?	✓		/
15.Is the S/N for all labeled analytes $\geq 10:1$ ? Is the S/N for targets $\geq$ the RL $\geq 6:1$ ? Is the S/N for targets $<$ RL $\geq 3:1$ ?	✓		/
<del>16.Are the ion abundance ratios for all native and labeled compounds within the limits?</del>	NA	single im	/
17.If manual integrations were performed, are they appropriate with proper reason given?	✓		/
<del>18.Was the Endrin and 4,4'-DDT breakdown check analyzed after the ICAL and breakdown less than 20%?</del>	NA		/

Chrom MLG Review	1 <sup>st</sup>	Comments/NCM#	2 <sup>nd</sup>
19.Are ICAL start/end dates/times correct on summary?	✓		/
20.Is the % RSD acceptable (within <del>55%</del> <b>20%</b> ) for all labeled standards?	✓		/
21.Is the % RSD acceptable for all native analytes (within 20% calculated by IDAs, and within <del>25%</del> <b>10%</b> when not calculated by IDAs)?	✓		/
22.Is the readback for each point within criteria? ( $\leq 30\%$ for all points $>$ RL, $\leq 50\%$ for points at RL and lower)	✓		/
23.Was an ICV analyzed and meet the limits according the SOP?	✓		/
24.Is low level standard at or below RL?	NA	* in development	/
25.Lock the Chrom method and upload ICAL & ICV.	✓		/

Continued on next page

## Eurofins TestAmerica Knoxville Initial Calibration Review Checklist

Method: ~~1699~~ by ~~KNOX-ID-0019~~, Rev. 0

HRPAH

TALS MLG Review		1 <sup>st</sup>	Comments	2 <sup>nd</sup>
26. Graphics uploaded?		✓		✓
27. All points are in the most recent active calibration event #?		✓		✓
28. Verify the reagents have not expired.		✓		✓
29. Was the mass resolution check <del>AND</del> breakdown check scanned and attached?		✓		✓
30. If criteria not met, was a NCM generated?		NA		✓
31. After review in TALS, approve the calibration in TALS		✓		✓
32. Checklist scanned & attached properly?		-N/A-		✓
1 <sup>st</sup> Level	Date:	6/20/24	2 <sup>nd</sup> Level	Date: 6-20-24
Comments:		Comments:		

# HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Start Date: 07/10/2024 10:12

Analysis Batch Number: 88561 End Date: 07/10/2024 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88561/1		07/10/2024 10:12	1	d3240710c1a.d	Rxi-5SilMS 25 0.25 (mm)
LCS 140-87620/19-B		07/10/2024 11:56	1	LCS140-8762019-B_20240710115341.d	Rxi-5SilMS 25 0.25 (mm)
LCSD 140-87620/20-B		07/10/2024 13:00	1	LCSD140-8762020-Ba.d	Rxi-5SilMS 25 0.25 (mm)
MB 140-87620/21-B		07/10/2024 15:12	1	MB140-8762021-B.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/10/2024 16:16	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/10/2024 17:21	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/10/2024 18:25	1		Rxi-5SilMS 25 0.25 (mm)

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method 4699 by KNOX-ID-0019, Rev. 0**  
**EPA-23-PAH**

Instrument:	D3 PAH	Start mass Res:	09:12
Analysis Date:	7/10/24	End Mass Res:	20:35
Chrom WL #:	33436	CS3 File name:	d3240710.pla
TALS Batch #:	88561	Breakdown Std:	
ICAL Chrom WL #:	33168		
ICAL TALS Batch / Event #:	87843 / 5149		

CCV Chrom/Worklist Review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution <del>8,000</del> in the center of each m/z range for the FC43 masses as listed in the SOP.		710600	✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes $\geq 10:1$ ?	✓		✓
11. Are the ion abundance ratios for all labeled and unlabeled analytes within the limits?	NA	single ion	✓
12. Were the absolute retention times of all labeled IDAs within $\pm 15$ seconds of the retention times obtained during initial calibration?	NA	RT criteria in progress	✓
13. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
14. Are % D within <del><math>\pm 50\%</math></del> for all labeled IDA's?	✓	30%	✓
15. Are % D within $\pm 25\%$ for all natives?	✓		✓
16. Was the absolute retention time for Methoxychlor greater than 39 minutes in the CS6 standard?	NA		✓
17. Was the Endrin and 4,4'-DDT breakdown check analyzed after the CCAL and breakdown less than 20%?	NA		✓

*Jim 8/12/24 x2*

Batch Chrom/TALS review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt. 10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA - High (NCM# _____) <input type="checkbox"/> IDA - Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method 1699 by KNOX-ID-0019, Rev. 0**

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ <input checked="" type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____	<input type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# _____) Samples _____ Samples _____ _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____	✓
<del>9. All sample and QC IDA, IS and surrogate ion ratios within QC limits?</del>	<del>NA</del>	<del><input type="checkbox"/> Ion abundance ratio (s) outside limits (NCM# _____)</del>	<del>✓</del>
10. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPs?	✓		✓

Batch TALS Review	1st	Comments/NCM #	2nd
11. Graphics uploaded?	✓		✓
12. Sample special instructions verified?	✓		✓
13. Was the mass resolution check AND the breakdown check attached to the appropriate CCV?	✓		✓
<del>14. Was the correct ICAL used for quantitation? (Check ICAL event number in batch).</del>	<del>NA</del>	<del></del>	<del>✓</del>
15. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
16. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	✓
17. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed; No Sat. (NCM# _____)	✓
18. Was a Post Dilution Spike technique used?	✓	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	✓
19. Suffixes assigned properly when needed (DL/RE)?	NA		✓
20. Samples not reported set to "Acceptable" or "Rejected"	✓		✓
21. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
22. Verify reagents have not expired.	✓		✓
23. Is the correct ICV from the ICAL linked?	✓		✓
24. Checklist scanned & attached properly?	✓		✓
1 <sup>st</sup> level: MSP by an	Date 7/11/24	2 <sup>nd</sup> level: J. H. Williams	Date 7/11/24
Comments:			



HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Start Date: 07/16/2024 11:30

Analysis Batch Number: 88812 End Date: 07/16/2024 21:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88812/1		07/16/2024 11:30	1	d3240716c2a.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/16/2024 13:41	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/16/2024 14:45	20		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/16/2024 15:50	20		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/16/2024 17:59	20		Rxi-5SilMS 25 0.25 (mm)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	07/16/2024 19:03	10	140-36940-a-1-d _20240716185927 .d	Rxi-5SilMS 25 0.25 (mm)
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	07/16/2024 20:07	10	140-36940-a-2-d _20240716200352 .d	Rxi-5SilMS 25 0.25 (mm)
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	07/16/2024 21:12	10	140-36940-a-3-d .d	Rxi-5SilMS 25 0.25 (mm)

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method EPA-23-PAH \*SOP IN PROGRESS\***

Instrument:	D3PST	Start mass Res:	11:19
Analysis Date:	7/16/24	End Mass Res:	22:16
Chrom WL #:	33522	ICAL Chrom WL #:	33168
TALS Batch #:	88812	ICAL TALS Batch / Event #:	87843 / 5149
CS3 File name:	83240716c2a		

CCV Chrom/Worklist Review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes ≥ 10:1?	✓		✓
11. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
13. Are % D within ± 30% for all labeled IDA's?	✓/N	NCM # 57414	✓/N
14. Are % D within ± 25% for all natives?	✓		✓

Batch Chrom/TALS review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt. 10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA – High (NCM# _____) <input type="checkbox"/> IDA – Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method EPA-23-PAH \*SOP IN PROGRESS\***

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	<b>✓N</b>	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____ _____	<input checked="" type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# <b>57415</b> ) Samples _____ Samples _____ _____ _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____ _____	<b>✓N</b>
9. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	<b>✓</b>			<b>✓</b>

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	<b>✓</b>		<b>/</b>
11. Sample special instructions verified?	<b>✓</b>		<b>/</b>
12. Was the mass resolution checks?	<b>✓</b>		<b>/</b>
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	<b>✓N</b>	<input checked="" type="checkbox"/> Holding Time-Initial Analysis (NCM# <b>51363</b> ) <b>57294</b> <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	<b>✓N</b>
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	<b>N/A</b>	<input type="checkbox"/> (NCM# _____)	<b>N/A</b>
15. Are all positive within the upper calibration range?	<b>✓</b>	<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	<b>/</b>
16. Was a Post Dilution Spike technique used?	<b>N/A</b>	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	<b>N/A</b>
17. Suffixes assigned properly when needed (DL/RE)?	<b>N/A</b>		<b>N/A</b>
18. Samples not reported set to "Acceptable" or "Rejected"	<b>N/A</b>		<b>N/A</b>
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	<b>/</b>		<b>/</b>
20. Verify reagents have not expired.	<b>✓</b>		<b>/</b>
21. Is the correct ICV from the ICAL linked?	<b>✓</b>		<b>/</b>
22. Checklist scanned & attached properly?	<b>/</b>		<b>/</b>
1 <sup>st</sup> level: <b>mpf</b>	Date <b>7/17/24</b>	2 <sup>nd</sup> level: <b>MAC by mpf</b>	Date <b>7/17/24</b>
Comments:			

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Start Date: 07/16/2024 23:22

Analysis Batch Number: 88831 End Date: 07/17/2024 08:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88831/1		07/16/2024 23:22	1	d3240716c4a.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 01:19	1		Rxi-5SilMS 25 0.25 (mm)
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	07/17/2024 02:24	1	140-36940-a-14- d.d	Rxi-5SilMS 25 0.25 (mm)
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	07/17/2024 03:28	20	140-36940-a-3-d _20240717032449 .d	Rxi-5SilMS 25 0.25 (mm)
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	07/17/2024 04:33	10	140-36940-a-5-d .d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 05:37	10		Rxi-5SilMS 25 0.25 (mm)
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	07/17/2024 06:42	10	140-36940-a-7-d .d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 07:46	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 08:50	10		Rxi-5SilMS 25 0.25 (mm)

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method EPA-23-PAH \*SOP IN PROGRESS\***

Instrument:	D3PAH	Start mass Res:	23:12
Analysis Date:	7-16-24	End Mass Res:	10:37
Chrom WL #:	33530	ICAL Chrom WL #:	33168
TALS Batch #:	88831	ICAL TALS Batch / Event #:	87843 / 5149
CS3 File name:	d3240716c4a		

CCV Chrom/Worklist Review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes ≥ 10:1?	✓		✓
11. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabelled analytes within their respective RRT limits?	✓		✓
13. Are % D within ± 30% for all labeled IDA's?	✓N	Ncm # 57417	✓
14. Are % D within ± 25% for all natives?	✓		✓

Batch Chrom/TALS review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA – High (NCM# _____) <input type="checkbox"/> IDA – Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method EPA-23-PAH \*SOP IN PROGRESS\***

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	ND	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____  <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____   	<input checked="" type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# _____) Samples _____ Samples _____ <u>140-37075-1</u> <u>140-36940-5, 6,</u> <u>7, 8</u>  <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____   	✓N
9. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	✓		✓
11. Sample special instructions verified?	✓		✓
12. Was the mass resolution checks?	✓		✓
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	NA
15. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	✓
16. Was a Post Dilution Spike technique used?	NA	<input type="checkbox"/> Dilution-Respoke IDA (NCM# _____)	NA
17. Suffixes assigned properly when needed (DL/RE)?	NA		NA
18. Samples not reported set to "Acceptable" or "Rejected"	✓		✓
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
20. Verify reagents have not expired.	✓		✓
21. Is the correct ICV from the ICAL linked?	✓		✓
22. Checklist scanned & attached properly?	✓		✓
1 <sup>st</sup> level:	Date 7/17/24	2 <sup>nd</sup> level: mmp	Date 7/17/24
Comments:			

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Start Date: 07/17/2024 12:02

Analysis Batch Number: 88872 End Date: 07/17/2024 20:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88872/1		07/17/2024 12:02	1	d3240717c1a.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 13:55	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 14:59	1		Rxi-5SilMS 25 0.25 (mm)
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	07/17/2024 16:04	10	140-36940-a-8-d a.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 17:08	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 18:13	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 19:17	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/17/2024 20:22	10		Rxi-5SilMS 25 0.25 (mm)

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method EPA-23-PAH \*SOP IN PROGRESS\***

Instrument:	D3PAH	Start mass Res:	10:37 <del>23:51</del> <i>for 1/17/24</i>
Analysis Date:	7/17/24	End Mass Res:	22:31
Chrom WL #:	33545	ICAL Chrom WL #:	<del>82843</del> 33545
TALS Batch #:	88872	ICAL TALS Batch / Event #:	88872 / 5749
CS3 File name:	d3240717cla		

CCV Chrom/Worklist Review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes ≥ 10:1?	✓		✓
11. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
13. Are % D within ± 30% for all labeled IDA's?	✓		✓
14. Are % D within ± 25% for all natives?	ND	see ncm, 140-57414	✓/N

Batch Chrom/TALS review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA – High (NCM# _____) <input type="checkbox"/> IDA – Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓



## Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method EPA-23-PAH \*SOP IN PROGRESS\*

mpf 7/17/24

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	✓N	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____ _____	<input checked="" type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# <u>549 57457</u> ) Samples <u>6, 8, 9, 10</u> Samples _____ _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____ _____	✓N
9. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	✓		✓
11. Sample special instructions verified?	✓		✓
12. Was the mass resolution checks?	✓		✓
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	N/A	<input type="checkbox"/> (NCM# _____)	N/A
15. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed; No Sat. (NCM# _____)	✓
16. Was a Post Dilution Spike technique used?	N/A	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	N/A
17. Suffixes assigned properly when needed (DL/RE)?	N/A		N/A
18. Samples not reported set to "Acceptable" or "Rejected"	✓		✓
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
20. Verify reagents have not expired.	✓		✓
21. Is the correct ICV from the ICAL linked?	✓		✓
22. Checklist scanned & attached properly?			✓
1 <sup>st</sup> level: <u>mpf</u>	Date <u>7-18-24</u>	2 <sup>nd</sup> level: <u>MAC by mpf</u>	Date <u>7-18-24</u>
Comments:			

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Start Date: 07/18/2024 21:47

Analysis Batch Number: 88945 End Date: 07/19/2024 07:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-88945/1		07/18/2024 21:47	1	d3240718c2a_20240718214503.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/18/2024 23:41	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 00:57	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 02:02	10		Rxi-5SilMS 25 0.25 (mm)
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	07/19/2024 03:06	20	140-36940-a-6-d_20240719030234.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 04:10	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 05:15	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 06:19	10		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/19/2024 07:23	1		Rxi-5SilMS 25 0.25 (mm)

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method EPA-23-PAH \*SOP IN PROGRESS\***

Instrument:	D3PAH 7-18-24	Start mass Res:	21:24
Analysis Date:	7-18-24	End Mass Res:	09:06
Chrom WL #:	33572	ICAL Chrom WL #:	33168
TALS Batch #:	88945	ICAL TALS Batch / Event #:	87843 / 5149
CS3 File name:	d3240718c2a		

CCV Chrom/Worklist Review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes ≥ 10:1?			✓
11. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
13. Are % D within ± 30% for all labeled IDA's?	✓		✓
14. Are % D within ± 25% for all natives?	✓		✓

Batch Chrom/TALS review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓N	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input checked="" type="checkbox"/> MB-insuff samp (NCM# 57534)	✓N
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA – High (NCM# _____) <input type="checkbox"/> IDA – Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

## Eurofins TestAmerica Knoxville Data Review / Narrative Checklist

Method EPA-23-PAH \*SOP IN PROGRESS\*

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	✓ ✓N	<input checked="" type="checkbox"/> IDA – High (1) no effect (NCM# <u>51535</u> ) Samples <u>6, 8, 9, 10</u> Samples _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____	<input type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# _____) Samples _____ Samples _____ _____ _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____	✓N
9. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	✓		✓
11. Sample special instructions verified?	✓		✓
12. Was the mass resolution checks?	✓		✓
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	N/A	<input type="checkbox"/> (NCM# _____)	N/A
15. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed; No Sat. (NCM# _____)	✓
16. Was a Post Dilution Spike technique used?	N/A	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	N/A
17. Suffixes assigned properly when needed (DL/RE)?	N/A		N/A
18. Samples not reported set to "Acceptable" or "Rejected"	✓		✓
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
20. Verify reagents have not expired.	✓		✓
21. Is the correct ICV from the ICAL linked?	✓		✓
22. Checklist scanned & attached properly?			✓

1 <sup>st</sup> level: <u>MAC by mcl</u>	Date <u>7-21-24</u>	2 <sup>nd</sup> level: <u>mcl</u>	Date <u>7-21-24</u>
Comments:			

# HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Start Date: 07/24/2024 21:46

Analysis Batch Number: 89185 End Date: 07/25/2024 06:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-89185/1		07/24/2024 21:46	1	d3240724c2b.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/24/2024 23:47	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/25/2024 00:52	1		Rxi-5SilMS 25 0.25 (mm)
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	07/25/2024 01:56	1	140-36940-a-4-f .d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/25/2024 03:01	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/25/2024 04:05	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/25/2024 05:09	1		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/25/2024 06:14	1		Rxi-5SilMS 25 0.25 (mm)

Eurofins TestAmerica Knoxville Data Review / Narrative Checklist  
Method EPA-23-PAH \*SOP IN PROGRESS\*

Instrument:	D3PAH	Start mass Res:	21-36
Analysis Date:	7-24-24	End Mass Res:	09:28
Chrom WL #: <del>7-24-24</del>	<del>89185</del> 33664	ICAL Chrom WL #:	33168
TALS Batch #:	89185	ICAL TALS Batch / Event #:	87843 / 5149
CS3 File name:	d3240724.c26		

CCV Chrom/Worklist Review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes $\geq 10:1$ ?	✓		
11. Were the absolute retention times of all labeled IDAs within $\pm 15$ seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
13. Are % D within $\pm 30\%$ for all labeled IDA's?	✓		✓
14. Are % D within $\pm 25\%$ for all natives?	✓		✓

Batch Chrom/TALS review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA - High (NCM# _____) <input type="checkbox"/> IDA - Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method EPA-23-PAH \*SOP IN PROGRESS\***

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	NO	<input checked="" type="checkbox"/> IDA - High (1) no effect (NCM# <u>57700</u> ) Samples _____ Samples _____ <u>140-36940-4</u> _____ _____ <input type="checkbox"/> IDA - (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____ _____	<input checked="" type="checkbox"/> IDA - Low - S/N > 10:1 - OK (NCM# <u>57701</u> ) Samples _____ Samples _____ <u>140-36940-4</u> <u>140-36951-4,5,6,</u> <u>7,8</u> <input type="checkbox"/> IDA - Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____ _____	/
9. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	/			/

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	/		/
11. Sample special instructions verified?	/		/
12. Was the mass resolution checks?	/		/
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	NO	<input checked="" type="checkbox"/> Holding Time-Initial Analysis (NCM# <u>57702</u> ) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	/
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	/
15. Are all positive within the upper calibration range?	/	<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	/
16. Was a Post Dilution Spike technique used?	/	<input checked="" type="checkbox"/> Dilution-Respike IDA (NCM# _____)	/
17. Suffixes assigned properly when needed (DL/RE)?	NR		/
18. Samples not reported set to "Acceptable" or "Rejected"	NR		/
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	/		/
20. Verify reagents have not expired.	/		/
21. Is the correct ICV from the ICAL linked?	/		/
22. Checklist scanned & attached properly?	/		/
1 <sup>st</sup> level: <u>MEO yz</u>	Date: <u>7/25/24</u>	2 <sup>nd</sup> level: <u>[Signature]</u>	Date: <u>7/26/24</u>
Comments:			

HI-RES PAHS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D3PAH Start Date: 07/28/2024 13:04

Analysis Batch Number: 89271 End Date: 07/28/2024 21:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 140-89271/1		07/28/2024 13:04	1	d3240728c1a.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/28/2024 17:06	1		Rxi-5SilMS 25 0.25 (mm)
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	07/28/2024 18:10	20	140-36940-a-5-d -20x.d	Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/28/2024 19:15	20		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/28/2024 20:19	20		Rxi-5SilMS 25 0.25 (mm)
ZZZZZ		07/28/2024 21:24	20		Rxi-5SilMS 25 0.25 (mm)



**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method EPA-23-PAH \*SOP IN PROGRESS\***

Instrument:	D3PAH	Start mass Res:	11:16
Analysis Date:	7/28/24	End Mass Res:	22:24
Chrom WL #:	33697	ICAL Chrom WL #:	33169
TALS Batch #:	29271	ICAL TALS Batch / Event #:	97843 / 5149
CS3 File name:	d3240728cla		

CCV Chrom/Worklist Review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?	✓		✓
2. Were all standards & samples injected within the 12 hour clock?	✓		✓
3. Was the instrument resolution >10,000 in the center of each m/z range for the FC43 masses as listed in the SOP.	✓		✓
4. Was the measured exact mass within 5 ppm at reduced accelerating voltage?	✓		✓
5. Are the reagents used in the WL correct?	✓		✓
6. Were the MID switch points set to encompass the retention time of each MID group?	✓		✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution?	✓		✓
8. Manual integrations properly performed and correct reason given?	✓		✓
9. Have the retention times been updated by the first CCV? And the method saved as Most Recent Method?	✓		✓
10. Is the S/N for all target and labeled analytes ≥ 10:1?	✓		✓
11. Were the absolute retention times of all labeled IDAs within ± 15 seconds of the retention times obtained during initial calibration?	NA	RT CRITERIA IN PROGRESS	NA
12. Are RRTs of all unlabeled analytes within their respective RRT limits?	✓		✓
13. Are % D within ± 30% for all labeled IDA's?	✓		✓
14. Are % D within ± 25% for all natives?	✓		✓

Batch Chrom/TALS review	1 <sup>st</sup>	Comments/NCM #	2 <sup>nd</sup>
1. Were the prep factors and dilution factors verified?	✓		✓
2. Method blank or instrument blank analyzed before first sample in sequence?	✓		✓
3. Are all target analytes in the method blank < RL	✓	<input type="checkbox"/> MB Rpt ND (NCM# _____) <input type="checkbox"/> MB-Rpt.10x (NCM# _____) <input type="checkbox"/> MB-insuff samp (NCM# _____)	✓
4. Method blank IDA, IS, and Surrogate (if applicable) recoveries within QC limits?	✓	<input type="checkbox"/> IDA – High (NCM# _____) <input type="checkbox"/> IDA – Low - S/N 10:1 (NCM# _____)	✓
5. LCS done per batch and criteria met for natives, IDA, IS and Surrogates?	✓	<input type="checkbox"/> LCS/D-Insuff smp (NCM# _____) <input type="checkbox"/> LCS/D-Insuff smp - CONSUMED (NCM# _____) <input type="checkbox"/> LCS/D %R High < RL in smp (NCM# _____) <input type="checkbox"/> LCS/D out-RX HT out (NCM# _____) <input type="checkbox"/> LCS/D-%RPD (%R OK) (NCM# _____)	✓
6. All runs - peaks ID'd correctly and false positives removed?	✓		✓
7. Manual integrations properly performed correctly and correct reason given?	✓		✓

**Eurofins TestAmerica Knoxville Data Review / Narrative Checklist**  
**Method EPA-23-PAH \*SOP IN PROGRESS\***

8. Are sample IDA recoveries within QC limits as specified within limits? "cn" See case narrative	NO	<input type="checkbox"/> IDA – High (1) no effect (NCM# _____) Samples _____ Samples _____ _____ _____ <input type="checkbox"/> IDA – (2) matrix, low bias (NCM# _____) Samples _____ Samples _____ _____ _____	<input type="checkbox"/> IDA – Low - S/N > 10:1 – OK (NCM# <u>52279</u> ) Samples _____ Samples _____ <u>140-36741-6</u> _____ <input type="checkbox"/> IDA – Low - S/N < 10:1 "cn" (NCM# _____) Samples _____ Samples _____ _____ _____	✓
9. Were peaks ≥ 2.5 S/N, which did not meet one or more of the criteria listed in of the SOP calculated and reported as EMPCs?	✓			✓

Batch TALS Review	1st	Comments/NCM #	2nd
10. Graphics uploaded?	✓		✓
11. Sample special instructions verified?	✓		✓
12. Was the mass resolution checks?	✓		✓
13. Sample analyses done within preparation and analytical HT? (Check for H-flag in sample result in AD II.)	✓	<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____) <input type="checkbox"/> NCM#140-11724: Add to Case Narrative if Manual Integrations Performed (NCM# _____) <input type="checkbox"/> Narrate reasons for multiple analyses of samples (NCM# _____)	✓
14. Are non-detects that are G-qualified narrated? (RL elevated to the EDL due to sample matrix).	NA	<input type="checkbox"/> (NCM# _____)	✓
15. Are all positive within the upper calibration range?	✓	<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	✓
16. Was a Post Dilution Spike technique used?	NA	<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	✓
17. Suffixes assigned properly when needed (DL/RE)?	NA		✓
18. Samples not reported set to "Acceptable" or "Rejected"	✓		✓
19. Samples linked to correct method blank & LCS/D & MS/D? And QC verified to be at primary?	✓		✓
20. Verify reagents have not expired.	✓		✓
21. Is the correct ICV from the ICAL linked?	✓		✓
22. Checklist scanned & attached properly?			✓
1 <sup>st</sup> level: <u>MCD yz</u>	Date: <u>7/30/24</u>	2 <sup>nd</sup> level: <u>[Signature]</u>	Date: <u>7/30/24</u>
Comments:			

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87620 Batch Start Date: 06/13/24 10:30 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/20/24 14:11

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
140-36940-A-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Combined Prep, Split, 23	Air	T	1732.9 g	628.5 g	1104.4 mL	1104.4 mL	1104.4 mL	1 Sample
140-36940-A-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Combined Prep, Split, 23	Air	T	1367.9 g	450.3 g	917.6 mL	917.6 mL	917.6 mL	1 Sample
140-36940-A-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Combined Prep, Split, 23	Air	T	1492.8 g	448.8 g	1044 mL	1044 mL	1044 mL	1 Sample
140-36940-A-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Combined Prep, Split, 23	Air	T	1376.2 g	448.9 g	927.3 mL	927.3 mL	927.3 mL	1 Sample
140-36940-A-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Combined Prep, Split, 23	Air	T	1409.8 g	450.4 g	959.4 mL	959.4 mL	959.4 mL	1 Sample
140-36940-A-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Combined Prep, Split, 23	Air	T	1450.6 g	450.4 g	1000.2 mL	1000.2 mL	1000.2 mL	1 Sample
140-36940-A-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	Combined Prep, Split, 23	Air	T	603.5 g	449.1 g	154.4 mL	154.4 mL	154.4 mL	1 Sample
140-36940-A-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	Combined Prep, Split, 23	Air	T						1 Sample
LCS 140-87620/19		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
LCSD 140-87620/20		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
MB 140-87620/21		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	HRPAH_IDA_WK 00003	HRPAH_NAT_WK 00001	HRPAH_PEFR_WK 00001	HRPAH_PSAS_WK 00002	
140-36940-A-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87620 Batch Start Date: 06/13/24 10:30 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/20/24 14:11

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	HRPAH_IDA_WK 00003	HRPAH_NAT_WK 00001	HRPAH_PEFR_WK 00001	HRPAH_PSAS_WK 00002	
140-36940-A-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36940-A-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36940-A-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36940-A-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36940-A-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36940-A-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	3 mL		300 uL	200 uL	
140-36940-A-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	Combined Prep, Split, 23	Air	T	30 mL	3 mL				
LCS 140-87620/19		Combined Prep, Split, 23			30 mL	3 mL	3 mL			
LCSD 140-87620/20		Combined Prep, Split, 23			30 mL	3 mL	3 mL			
MB 140-87620/21		Combined Prep, Split, 23			30 mL	3 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87620 Batch Start Date: 06/13/24 10:30 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/20/24 14:11

Batch Notes	
MeCL2 ID	241698
Na2SO4 ID	682772
Sulfuric Acid ID	682487
Hexane ID	241348
Analyst ID - TA Reagent Drop	SS
Analyst ID - IDA Reagent Drop	SS
Analyst ID - TA Reagent Drop Witness	DM
Analyst ID - IDA Reagent Drop Witness	DM
Analyst ID - Extraction	SS
Extraction 1 Start Time	15:00
First Extraction Start Date	06/14/2024
Extraction 1 End Time	08:45
First Extraction End Date	06/15/2024 08:45
Analyst ID - Concentration	ss
Concentration Date	06/17/2024

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87620 Batch Start Date: 06/13/24 10:30 Batch Analyst: Stockton, Samuel

Batch Method: Combined Prep Batch End Date: 06/20/24 14:11

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
140-36940-A-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Combined Prep, Split, Dilution, 23	Air	T	1379.5 g	448.1 g	931.4 mL	931.4 mL	931.4 mL	1 Sample

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	HRPAH_IDA_WK 00003	HRPAH_PEFR_WK 00001	HRPAH_PSAS_WK 00002		
140-36940-A-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Combined Prep, Split, Dilution, 23	Air	T	30 mL	3 mL	300 uL	200 uL		

Batch Notes	
MeCL2 ID	241698
Na2SO4 ID	682772
Sulfuric Acid ID	682487
Hexane ID	241348
Analyst ID - TA Reagent Drop	SS
Analyst ID - IDA Reagent Drop	SS
Analyst ID - TA Reagent Drop Witness	DM
Analyst ID - IDA Reagent Drop Witness	DM
Analyst ID - Extraction	SS
Extraction 1 Start Time	15:00
First Extraction Start Date	06/14/2024
Extraction 1 End Time	08:45
First Extraction End Date	06/15/2024 08:45
Analyst ID - Concentration	ss
Concentration Date	06/17/2024

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87843 Batch Start Date: 06/19/24 16:34 Batch Analyst: Nordquist, Jon M

Batch Method: 23 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61HRPAHCS1 00002	61HRPAHCS2 00002	61HRPAHCS3 00003	61HRPAHCS4 00002	61HRPAHCS4a 00002	61HRPAHCS5 00002
IC 140-87843/1		23			20 uL					
IC 140-87843/2		23				20 uL				
IC 140-87843/3		23					20 uL			
IC 140-87843/4		23						20 uL		
IC 140-87843/5		23							20 uL	
IC 140-87843/6		23								20 uL
IC 140-87843/7		23								
IC 140-87843/8		23								
IC 140-87843/9		23								
ICV 140-87843/10		23								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61HRPAHCS5a 00002	61HRPAHCS6 00002	61HRPAHCS7 00002	61HRPAHICVW 00003		
IC 140-87843/1		23								
IC 140-87843/2		23								
IC 140-87843/3		23								
IC 140-87843/4		23								
IC 140-87843/5		23								
IC 140-87843/6		23								
IC 140-87843/7		23			20 uL					
IC 140-87843/8		23				20 uL				
IC 140-87843/9		23					20 uL			
ICV 140-87843/10		23						20 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87906 Batch Start Date: 06/20/24 14:13 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 06/26/24 13:21

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	HRPAH_REC_WK 00001			
140-36940-A-1-A	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36940-A-2-A	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36940-A-3-A	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36940-A-5-A	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36940-A-6-A	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36940-A-7-A	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36940-A-8-A	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	Split, 23	Air	T	10 mL	500 uL	500 uL			
140-36940-A-14-A	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	Split, 23	Air	T	10 mL	500 uL	500 uL			
LCS 140-87620/19-A		Split, 23			10 mL	500 uL	500 uL			
LCSD 140-87620/20-A		Split, 23			10 mL	500 uL	500 uL			
MB 140-87620/21-A		Split, 23			10 mL	500 uL	500 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



# HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87906 Batch Start Date: 06/20/24 14:13 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 06/26/24 13:21

Batch Notes	
Analyst ID - Concentration	der
Silica Gel ID	702165
Na2SO4 ID	662413
Hexane ID	241348
40% DCM:Hexane ID	697600
Analyst ID - IS Reagent Drop	caa
Analyst ID - IS Reagent Drop Witness	caa
Batch Comment	DER ran silica columns on 6/21/24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87906 Batch Start Date: 06/20/24 14:13 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 06/26/24 13:21

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	HRPAH_REC_WK 00001	AnalysisCommen t		
140-36940-A-4-A	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Split, Dilution, 23	Air	T	10 mL	500 uL	500 uL	Waiting for PM, see NCM.		

Batch Notes	
Analyst ID - Concentration	der
Silica Gel ID	702165
Na2SO4 ID	662413
Hexane ID	241348
40% DCM:Hexane ID	697600
Analyst ID - IS Reagent Drop	caa
Analyst ID - IS Reagent Drop Witness	caa
Batch Comment	DER ran silica columns on 6/21/24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## Eurofins Knoxville Extraction Sheet

87620

7900

ITALS Prep Chain: Comb\_HRMS\_Prep→Split\_SA\_HRPAH

Delivered: \_\_\_\_\_

initials/date/time

Received: \_\_\_\_\_

initials/date/time

[illegible]

OP1550 052024  
SS  
414  
SS 414 CWS 3567 DER DER → CAA →  
6/18 6/20 6/21 (TALS)  
OP1550 052024 EPA M23 PAH Combined Air Train Page 1  
Printed: 6/13/2024 10:40 AM

## Eurofins Knoxville Prep Batch Review Checklist

Batch # 87620Split Batch # 87906

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Were the samples extracted within the required holding times?		✓		If No, NCM #: _____	✓
2. Are the final extracts free of water, precipitates, multiple phases, and for HRMS - color?			✓	-940-A-4 is yellow w/ particulates. Several others are pink or yellow	✓
3. Were all project specific requirements met?		✓			✓
4. Were the correct start and completion dates entered into TALS?		✓			✓
5. Are the spike IDs and volumes correct in TALS for the method?		✓			✓
6. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including: <ul style="list-style-type: none"> <li>Extraction Benchsheet (Excel)</li> <li>Batch Worksheets (ANLY)</li> <li>Verify Protocol #'s (compare excel sheet to TALS)</li> <li>Was the Excel Extraction Benchsheet and Prep Batch Review Checklist scanned and attached to batch in TALS?</li> </ul>		✓			✓
7. Did extracts go through GPC cleanup? Has the following nonconformance been associated with all extracts?	✓			If Yes, <input type="checkbox"/> Clean-up Required - GPC (NCM# _____)	✓
8. Are all additional nonconformances documented appropriately?		✓		If Yes, NCM#: <u>140-56760</u>	✓
Analyst : <u>CAA</u> Date: <u>6/26/24</u>					
Comments:					
2nd Level Reviewer: <u>DH</u> Date: <u>6-27-24</u>					
Comments:					

## HI-RES PAHS BATCH WORKSHEET

Lab Name: Eurofins Knoxville                      Job No.: 140-36940-1

SDG No.:

Batch Number: 89047                      Batch Start Date: 07/22/24   11:57                      Batch Analyst: Gentzel, Rebecca K

Batch Method: Dilution                      Batch End Date: 07/24/24   11:11

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialVolume1	FinalVolume1	InitialVolume2	FinalVolume2	DilutionFactor	FinalAmount
140-36940-A-4-D	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Dilution, 23	Air	T	10 uL	30 mL	5 mL	500 uL	300 No Unit	500 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	CalcMsg	HRPAH_IDA_WK 00002	HRPAH_PEFR_WK 00001	HRPAH_PSAS_WK 00002	HRPAH_REC_WK 00001	
140-36940-A-4-D	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Dilution, 23	Air	T	OK	1 mL	100 uL	100 uL	0.5 mL	

Batch Notes	
Batch Comment	DER transferred and spiked IS 7/23/24, DIL/spiking performed by RKG and witnessed by DM

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Method 23 Revised (PCBs)

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Chlorinated Biphenyl Congeners  
(Stationary Source) by HRGC/HRMS

FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB1L #	PCB3L #	PCB4L #	PCB19L #	PCB15L #	PCB54L #	PCB28L #	PCB104L #
	LCS 140-87624/19-B	52	78	49	53	74	70	74	81
	LCSD 140-87624/20-B	61	82	56	58	73	75	72	76

PCB1L = PCB-1L  
PCB3L = PCB-3L  
PCB4L = PCB-4L  
PCB19L = PCB-19L  
PCB15L = PCB-15L  
PCB54L = PCB-54L  
PCB28L = PCB-28L  
PCB104L = PCB-104L

QC LIMITS

15-145  
15-145  
15-145  
15-145  
15-145  
15-145  
15-145  
15-145  
40-145

# Column to be used to flag recovery values

FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB37L #	PCB155L #	PCB81L #	PCB77L #	PCB111L #	PCB123L #	PCB118L #	PCB188L #
	LCS 140-87624/19-B	79	87	85	87	82	86	88	81
	LCSD 140-87624/20-B	77	80	84	86	79	81	82	76

PCB37L = PCB-37L  
PCB155L = PCB-155L  
PCB81L = PCB-81L  
PCB77L = PCB-77L  
PCB111L = PCB-111L  
PCB123L = PCB-123L  
PCB118L = PCB-118L  
PCB188L = PCB-188L

QC LIMITS

15-145  
40-145  
40-145  
40-145  
40-145  
40-145  
40-145  
40-145

# Column to be used to flag recovery values



FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB114L #	PCB105L #	PCB178L #	PCB126L #	PCB202L #	PCB167L #	PCB156L #	PCB157L #
	LCS 140-87624/19-B	84	87	80	90	81	87	89	89 C15 6
	LCSD 140-87624/20-B	80	82	79	88	80	84	88	88 C15 6

	QC LIMITS
PCB114L = PCB-114L	40-145
PCB105L = PCB-105L	40-145
PCB178L = PCB-178L	40-145
PCB126L = PCB-126L	40-145
PCB202L = PCB-202L	40-145
PCB167L = PCB-167L	40-145
PCB156L = PCB-156L	40-145
PCB157L = PCB-157L	40-145

# Column to be used to flag recovery values

## FORM II

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No. :

Matrix: Air

Level: Low

GC Column (1): SPB-Octyl

ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB170L #	PCB169L #	PCB208L #	PCB189L #	PCB205L #	PCB206L #	PCB209L #
	LCS 140-87624/19-B	92	93	87	103	90	87	90
	LCSD 140-87624/20-B	89	89	85	100	88	84	87

PCB170L = PCB-170L  
PCB169L = PCB-169L  
PCB208L = PCB-208L  
PCB189L = PCB-189L  
PCB205L = PCB-205L  
PCB206L = PCB-206L  
PCB209L = PCB-209L

QC LIMITS

40-145  
40-145  
40-145  
40-145  
40-145  
40-145  
40-145

```
# Column to be used to flag recovery values
```

FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB1L #	PCB3L #	PCB4L #	PCB19L #	PCB15L #	PCB54L #	PCB28L #	PCB104L #
A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	140-36940-14	14 *5-	44	19 *5-	27	68	49	69	75
	MB 140-87624/21-B	46	77	45	51	74	71	77	78

QC LIMITS

PCB1L = PCB-1L	20-145
PCB3L = PCB-3L	20-145
PCB4L = PCB-4L	20-145
PCB19L = PCB-19L	20-145
PCB15L = PCB-15L	20-145
PCB54L = PCB-54L	20-145
PCB28L = PCB-28L	20-130
PCB104L = PCB-104L	20-145

# Column to be used to flag recovery values

FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB37L #	PCB155L #	PCB81L #	PCB77L #	PCB111L #	PCB123L #	PCB118L #	PCB188L #
A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	140-36940-14	71	78	78	79	78	83	84	79
	MB 140-87624/21-B	78	84	85	88	81	82	83	77

	<u>QC LIMITS</u>
PCB37L = PCB-37L	20-145
PCB155L = PCB-155L	20-145
PCB81L = PCB-81L	20-145
PCB77L = PCB-77L	20-145
PCB111L = PCB-111L	20-130
PCB123L = PCB-123L	20-145
PCB118L = PCB-118L	20-145
PCB188L = PCB-188L	20-145

# Column to be used to flag recovery values

FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB114L #	PCB105L #	PCB178L #	PCB126L #	PCB202L #	PCB167L #	PCB156L #	PCB157L #
A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	140-36940-14	83	87	78	85	82	83	87 C	87 C15 6
	MB 140-87624/21-B	83	86	78	89	82	88	92 C	92 C15 6

	<u>QC LIMITS</u>
PCB114L = PCB-114L	20-145
PCB105L = PCB-105L	20-145
PCB178L = PCB-178L	20-130
PCB126L = PCB-126L	20-145
PCB202L = PCB-202L	20-145
PCB167L = PCB-167L	20-145
PCB156L = PCB-156L	20-145
PCB157L = PCB-157L	20-145

# Column to be used to flag recovery values

FORM II 23

## FORM II

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

SDG No. :

Matrix: Air

Level: Low

GC Column (1): SPB-Octyl

ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB170L #	PCB169L #	PCB208L #	PCB189L #	PCB205L #	PCB206L #	PCB209L #
A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	140-36940-14	90	87	103	60	87	102	110
	MB 140-87624/21-B	89	91	86	102	89	87	88

## QC LIMITS

PCB170L = PCB-170L  
PCB169L = PCB-169L  
PCB208L = PCB-208L  
PCB189L = PCB-189L  
PCB205L = PCB-205L  
PCB206L = PCB-206L  
PCB209L = PCB-209L

20-145  
20-145  
20-145  
20-145  
20-145  
20-145  
20-145

```
# Column to be used to flag recovery values
```

FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB1L #	PCB3L #	PCB4L #	PCB8L #	PCB19L #	PCB15L #	PCB54L #	PCB28L #
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	49	77	58	90	83	77	121	81
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	62	87	69	88	109	74	141	84
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	61	74	73	99	59	89	98	83
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	105	105	98	97	95	108	110	89
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	60	72	74	80	70	89	90	84
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	53	62	65	89	69	79	82	82
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	54	58	65	99	71	76	83	76
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	53	61	62	96	63	68	71	71

QC LIMITS

PCB1L = PCB-1L	20-145
PCB3L = PCB-3L	20-145
PCB4L = PCB-4L	20-145
PCB8L = PCB-8L	70-130
PCB19L = PCB-19L	20-145
PCB15L = PCB-15L	20-145
PCB54L = PCB-54L	20-145
PCB28L = PCB-28L	20-130

# Column to be used to flag recovery values

FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB104L #	PCB37L #	PCB95L #	PCB155L #	PCB79L #	PCB81L #	PCB77L #	PCB111L #
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	85	84	104	85	100	85	82	86
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	87	90	110	85	102	88	88	89
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	87	89	107	87	104	89	88	88
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	101	103	114	106	101	110	106	91
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	86	88	105	87	96	87	88	89
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	84	78	106	83	103	84	83	87
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	86	80	104	84	100	84	82	86
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	72	69	111	79	98	78	80	81

QC LIMITS

PCB104L = PCB-104L	20-145
PCB37L = PCB-37L	20-145
PCB95L = PCB-95L	70-130
PCB155L = PCB-155L	20-145
PCB79L = PCB-79L	70-130
PCB81L = PCB-81L	20-145
PCB77L = PCB-77L	20-145
PCB111L = PCB-111L	20-130

# Column to be used to flag recovery values



FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB123L #	PCB118L #	PCB188L #	PCB114L #	PCB105L #	PCB153L #	PCB178L #	PCB126L #
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	84	86	84	84	86	90	84	87
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	85	91	86	86	93	96	87	92
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	93	90	88	90	94	103	87	92
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	102	103	100	102	109	96	91	109
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	87	86	87	90	89	89	88	92
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	88	88	86	87	88	97	88	88
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	86	87	87	85	87	90	82	88
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	81	84	80	80	85	89	83	88

QC LIMITS

PCB123L = PCB-123L	20-145
PCB118L = PCB-118L	20-145
PCB188L = PCB-188L	20-145
PCB114L = PCB-114L	20-145
PCB105L = PCB-105L	20-145
PCB153L = PCB-153L	70-130
PCB178L = PCB-178L	20-130
PCB126L = PCB-126L	20-145

# Column to be used to flag recovery values

FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB202L #	PCB167L #	PCB156L #	PCB157L #	PCB170L #	PCB169L #	PCB208L #	PCB189L #
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	83	89	88	C 88 C15 6	84	83	80	98
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	86	88	89	C 89 C15 6	91	86	89	96
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	86	84	86	C 86 C15 6	91	84	105	63
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	101	101	105	C 105 C15 6	101	103	106	119
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	84	89	91	C 91 C15 6	90	89	109	61
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	86	87	88	C 88 C15 6	90	88	106	59
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	89	87	89	C 89 C15 6	93	87	109	59
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	84	86	89	C 89 C15 6	91	89	97	88

QC LIMITS

PCB202L = PCB-202L	20-145
PCB167L = PCB-167L	20-145
PCB156L = PCB-156L	20-145
PCB157L = PCB-157L	20-145
PCB170L = PCB-170L	20-145
PCB169L = PCB-169L	20-145
PCB208L = PCB-208L	20-145
PCB189L = PCB-189L	20-145

# Column to be used to flag recovery values

FORM II  
HI-RES PCBS SURROGATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

GC Column (1): SPB-Octyl ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	PCB205L #	PCB206L #	PCB209L #
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	89	78	80
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	90	83	84
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	89	102	104
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	102	105	108
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	89	103	113
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	87	102	109
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	89	107	116
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	93	94	97

	<u>QC LIMITS</u>
PCB205L = PCB-205L	20-145
PCB206L = PCB-206L	20-145
PCB209L = PCB-209L	20-145

# Column to be used to flag recovery values

FORM III  
HI-RES PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: lcs140-8762419-b.d  
 Lab ID: LCS 140-87624/19-B Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/Sample)	LCS CONCENTRATION (ng/Sample)	LCS % REC	QC LIMITS REC	#
PCB-1	15.0	16.49	110	60-135	
PCB-3	15.0	16.55	110	60-135	
PCB-4	15.0	15.73	105	60-135	
PCB-15	15.0	14.56	97	60-135	
PCB-19	15.0	15.69	105	60-135	
PCB-37	15.0	15.45	103	60-135	
PCB-54	15.0	14.45	96	60-135	
PCB-77	15.0	15.37	102	60-135	
PCB-81	15.0	14.61	97	60-135	
PCB-104	15.0	15.88	106	60-135	
PCB-105	15.0	15.00	100	60-135	
PCB-114	15.0	16.24	108	60-135	
PCB-118	15.0	13.93	93	60-135	
PCB-123	15.0	15.55	104	60-135	
PCB-126	15.0	18.14	121	60-135	
PCB-155	15.0	14.33	96	60-135	
PCB-156	30.0	30.27	101	60-135	C
PCB-157	30.0	30.27	101	60-135	C156
PCB-167	15.0	15.81	105	60-135	
PCB-169	15.0	16.77	112	60-135	
PCB-188	15.0	14.87	99	60-135	
PCB-189	15.0	16.08	107	60-135	
PCB-202	15.0	15.11	101	60-135	
PCB-205	15.0	16.63	111	60-135	
PCB-206	15.0	15.04	100	60-135	
PCB-208	15.0	14.22	95	60-135	
PCB-209	15.0	13.81	92	60-135	
PCB-1L	30.0	15.51	52	15-145	
PCB-3L	30.0	23.53	78	15-145	
PCB-4L	30.0	14.84	49	15-145	
PCB-15L	30.0	22.23	74	15-145	
PCB-19L	30.0	15.99	53	15-145	
PCB-37L	30.0	23.64	79	15-145	
PCB-54L	30.0	21.08	70	15-145	
PCB-77L	30.0	26.06	87	40-145	
PCB-81L	30.0	25.59	85	40-145	
PCB-104L	30.0	24.31	81	40-145	
PCB-105L	30.0	26.08	87	40-145	
PCB-114L	30.0	25.29	84	40-145	
PCB-118L	30.0	26.52	88	40-145	
PCB-123L	30.0	25.94	86	40-145	
PCB-126L	30.0	26.89	90	40-145	

# Column to be used to flag recovery and RPD values

FORM III 23

FORM III  
HI-RES PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: lcs140-8762419-b.d  
 Lab ID: LCS 140-87624/19-B Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/Sample)	LCS CONCENTRATION (ng/Sample)	LCS % REC	QC LIMITS REC	#
PCB-155L	30.0	25.97	87	40-145	
PCB-156L	60.0	53.60	89	40-145	C
PCB-157L	60.0	53.60	89	40-145	C156
PCB-167L	30.0	25.97	87	40-145	
PCB-169L	30.0	27.79	93	40-145	
PCB-170L	30.0	27.46	92	40-145	
PCB-188L	30.0	24.24	81	40-145	
PCB-189L	30.0	30.96	103	40-145	
PCB-202L	30.0	24.36	81	40-145	
PCB-205L	30.0	26.89	90	40-145	
PCB-206L	30.0	26.03	87	40-145	
PCB-208L	30.0	26.00	87	40-145	
PCB-209L	30.0	27.12	90	40-145	

# Column to be used to flag recovery and RPD values

FORM III  
HI-RES PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: lcsd140-8762420-b.d  
 Lab ID: LCSD 140-87624/20-B Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/Sample)	LCSD CONCENTRATION (ng/Sample)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1	15.0	16.66	111	1	50	60-135	
PCB-3	15.0	16.58	111	0	50	60-135	
PCB-4	15.0	16.24	108	3	50	60-135	
PCB-15	15.0	14.95	100	3	50	60-135	
PCB-19	15.0	16.07	107	2	50	60-135	
PCB-37	15.0	15.53	104	1	50	60-135	
PCB-54	15.0	14.70	98	2	50	60-135	
PCB-77	15.0	16.16	108	5	50	60-135	
PCB-81	15.0	15.65	104	7	50	60-135	
PCB-104	15.0	16.23	108	2	50	60-135	
PCB-105	15.0	15.49	103	3	50	60-135	
PCB-114	15.0	16.45	110	1	50	60-135	
PCB-118	15.0	14.68	98	5	50	60-135	
PCB-123	15.0	15.28	102	2	50	60-135	
PCB-126	15.0	18.37	122	1	50	60-135	
PCB-155	15.0	14.62	97	2	50	60-135	
PCB-156	30.0	30.41	101	0	50	60-135	C
PCB-157	30.0	30.41	101	0	50	60-135	C156
PCB-167	15.0	15.67	104	1	50	60-135	
PCB-169	15.0	17.08	114	2	50	60-135	
PCB-188	15.0	14.78	99	1	50	60-135	
PCB-189	15.0	16.41	109	2	50	60-135	
PCB-202	15.0	15.35	102	2	50	60-135	
PCB-205	15.0	16.65	111	0	50	60-135	
PCB-206	15.0	15.08	101	0	50	60-135	
PCB-208	15.0	14.50	97	2	50	60-135	
PCB-209	15.0	14.31	95	4	50	60-135	
PCB-1L	30.0	18.35	61			15-145	
PCB-3L	30.0	24.48	82			15-145	
PCB-4L	30.0	16.71	56			15-145	
PCB-15L	30.0	21.89	73			15-145	
PCB-19L	30.0	17.53	58			15-145	
PCB-37L	30.0	23.17	77			15-145	
PCB-54L	30.0	22.39	75			15-145	
PCB-77L	30.0	25.80	86			40-145	
PCB-81L	30.0	25.06	84			40-145	
PCB-104L	30.0	22.89	76			40-145	
PCB-105L	30.0	24.60	82			40-145	
PCB-114L	30.0	24.13	80			40-145	
PCB-118L	30.0	24.55	82			40-145	
PCB-123L	30.0	24.22	81			40-145	
PCB-126L	30.0	26.42	88			40-145	

# Column to be used to flag recovery and RPD values

FORM III  
HI-RES PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: lcsd140-8762420-b.d  
 Lab ID: LCSD 140-87624/20-B Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/Sample)	LCSD CONCENTRATION (ng/Sample)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-155L	30.0	23.90	80			40-145	
PCB-156L	60.0	52.78	88			40-145	C
PCB-157L	60.0	52.78	88			40-145	C156
PCB-167L	30.0	25.14	84			40-145	
PCB-169L	30.0	26.67	89			40-145	
PCB-170L	30.0	26.81	89			40-145	
PCB-188L	30.0	22.86	76			40-145	
PCB-189L	30.0	30.14	100			40-145	
PCB-202L	30.0	24.01	80			40-145	
PCB-205L	30.0	26.28	88			40-145	
PCB-206L	30.0	25.24	84			40-145	
PCB-208L	30.0	25.41	85			40-145	
PCB-209L	30.0	26.15	87			40-145	

# Column to be used to flag recovery and RPD values

FORM IV  
HI-RES PCBS METHOD BLANK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: mb140-8762421-b.d Lab Sample ID: MB 140-87624/21-B  
 Matrix: Air Date Extracted: 06/13/2024 10:44  
 Instrument ID: D2D Date Analyzed: 06/28/2024 02:59  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 140-87624/19-B	lcs140-8762419-b.d	06/27/2024 23:11
	LCSD 140-87624/20-B	lcsd140-8762420-b.d	06/28/2024 00:12
M23 - EPN 4-1/IN-701-RUN 1-COMBINED	140-36940-1	140-36940-a-1-c.d	06/28/2024 04:00
M23 - EPN 4-1/IN-701-RUN 2-COMBINED	140-36940-2	140-36940-a-2-c.d	06/28/2024 05:01
A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	140-36940-14	140-36940-a-14-c.d	06/28/2024 12:47
M23 - EPN 4-1/IN-701-RUN 3-COMBINED	140-36940-3	140-36940-a-3-c5x.d	06/28/2024 13:48
M23 - EPN 4-1/IN-701-RUN 5-COMBINED	140-36940-5	140-36940-a-5-c5x.d	06/28/2024 15:51
M23 - EPN 4-1/IN-701-RUN 6-COMBINED	140-36940-6	140-36940-a-6-c5x.d	06/28/2024 16:52
M23 - EPN 4-1/IN-701-RUN 7-COMBINED	140-36940-7	140-36940-a-7-c5x.d	06/28/2024 17:53
M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	140-36940-8	140-36940-a-8-c.d	06/29/2024 03:19
M23 - EPN 4-1/IN-701-RUN 4-COMBINED	140-36940-4	140-36940-a-4-e.d	07/02/2024 19:57



FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>1-COMBINED</u>	Lab Sample ID: <u>140-36940-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-1-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 13:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 04:00</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	1.17	B	0.600	0.132	0.0247
37680-65-2	PCB-18	0.360	J S C B	0.600	0.285	0.00435
7012-37-5	PCB-28	0.610	C20 B	0.600	0.252	0.0115
41464-39-5	PCB-44	2.13	C	0.900	0.390	0.0170
35693-99-3	PCB-52	0.545		0.300	0.132	0.0180
32598-10-0	PCB-66	0.142	J q	0.300	0.120	0.0132
32598-13-3	PCB-77	0.0933	J	0.300	0.126	0.0154
70362-50-4	PCB-81	ND		0.300	0.0960	0.0153
37680-73-2	PCB-101	0.182	J C90	0.900	0.390	0.00498
32598-14-4	PCB-105	ND		0.300	0.102	0.0339
74472-37-0	PCB-114	ND		0.300	0.165	0.0352
31508-00-6	PCB-118	0.0913	J B	0.300	0.183	0.0318
65510-44-3	PCB-123	ND		0.300	0.171	0.0368
57465-28-8	PCB-126	ND		0.300	0.123	0.0382
38380-07-3	PCB-128	0.00802	J q C	0.600	0.204	0.00221
35065-28-2	PCB-138	0.0787	J C129 B	1.20	0.510	0.00229
35065-27-1	PCB-153	0.0710	J C	0.600	0.249	0.00198
38380-08-4	PCB-156	0.0117	J C	0.600	0.255	0.00242
69782-90-7	PCB-157	0.0117	J C156	0.600	0.255	0.00242
52663-72-6	PCB-167	ND		0.300	0.180	0.00154
32774-16-6	PCB-169	0.00239	J q B	0.300	0.123	0.00167
35065-30-6	PCB-170	0.0105	J	0.300	0.132	0.00140
35065-29-3	PCB-180	0.0228	J q C B	0.600	0.204	0.00106
52663-68-0	PCB-187	0.0277	J q	0.300	0.126	0.00112
39635-31-9	PCB-189	ND		0.300	0.147	0.00504
52663-78-2	PCB-195	ND		0.300	0.159	0.00251
40186-72-9	PCB-206	ND		0.300	0.171	0.0330

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-1  
1-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-1-c.d  
Analysis Method: 23 Date Collected: 05/15/2024 13:45  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 04:00  
Con. Extract Vol.: 30 (mL) Dilution Factor: 1  
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88205 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
2051-24-3	PCB-209	ND		0.300	0.138	0.00168

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>1-COMBINED</u>	Lab Sample ID: <u>140-36940-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-1-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 13:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 04:00</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	49		20-145
208263-77-8	PCB-3L	77		20-145
234432-86-1	PCB-4L	58		20-145
208263-67-6	PCB-15L	77		20-145
234432-87-2	PCB-19L	83		20-145
208263-79-0	PCB-37L	84		20-145
234432-88-3	PCB-54L	121		20-145
105600-23-5	PCB-77L	82		20-145
208461-24-9	PCB-81L	85		20-145
234432-89-4	PCB-104L	85		20-145
208263-62-1	PCB-105L	86		20-145
208263-63-2	PCB-114L	84		20-145
104130-40-7	PCB-118L	86		20-145
208263-64-3	PCB-123L	84		20-145
208263-65-4	PCB-126L	87		20-145
234432-90-7	PCB-155L	85		20-145
208263-68-7	PCB-156L	88	C	20-145
235416-30-5	PCB-157L	88	C156	20-145
208263-69-8	PCB-167L	89		20-145
208263-70-1	PCB-169L	83		20-145
160901-80-4	PCB-170L	84		20-145
234432-91-8	PCB-188L	84		20-145
208263-73-4	PCB-189L	98		20-145
105600-26-8	PCB-202L	83		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	78		20-145
234432-92-9	PCB-208L	80		20-145
105600-27-9	PCB-209L	80		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-1  
1-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-1-c.d  
Analysis Method: 23 Date Collected: 05/15/2024 13:45  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 04:00  
Con. Extract Vol.: 30(mL) Dilution Factor: 1  
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25(mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88205 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	81		20-130
235416-29-2	PCB-111L	86		20-130
232919-67-4	PCB-178L	84		20-130
STL01600	PCB-8L	90		70-130
STL01603	PCB-79L	100		70-130
STL01604	PCB-95L	104		70-130
STL01606	PCB-153L	90		70-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-1-c.d  
Lims ID: 140-36940-A-1-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 04:00:00 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-009  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 12:03:38 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 12:03:38

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					236.5	236.5	0.3651	0.3651		
D PCB-1L	11:40	5435425	3.27	1.6108	48.5	48.5	0.4923	0.4923	48.54	
D PCB-3L	13:49	8528304	3.17	1.5891	77.2	77.2	0.4990	0.4990	77.20	
PCB-1	11:40	3351158	3.50	1.2191	50.6	50.6	0.4119	0.4119		
PCB-2	13:39	9492599	3.16	1.1805	115.2	115.2	0.3687	0.3687		
PCB-3	13:50	7360748	3.14	1.2206	70.7	70.7	0.3147	0.3147		
S Total Dichlorobiphenyls					175.4	175.2	0.0962	0.0962		RQ
D PCB-4L	14:05	2592885	1.59	0.6475	57.6	57.6	0.3459	0.3459	57.60	
* PCB-9L	16:03	6951450	1.58		100.0	100.0				
\$ PCB-8L	16:54	1512709	1.69	1.2066	30.0	30.0	0.3407	0.3407	90.13	
D PCB-15L	20:02	5752771	1.65	1.0789	76.7	76.7	0.2076	0.2076	76.70	
PCB-4	14:05	57643	1.56	1.2818	1.926	1.734	0.1324	0.1324		RQ
PCB-10	14:15	39822	1.38	1.3149	0.7258	0.7258	0.0997	0.0997		
PCB-9	16:04	55808	1.63	1.4224	0.9402	0.9402	0.0921	0.0921		
PCB-7	16:13	253732	1.67	1.4134	4.302	4.302	0.0927	0.0927		
PCB-6	16:29	109962	1.62	1.5421	1.709	1.709	0.0850	0.0850		
PCB-5	16:47	60512	1.62	1.3395	1.083	1.083	0.0978	0.0978		
PCB-8	16:55	259244	1.70	1.5889	3.910	3.910	0.0825	0.0825		
PCB-14	18:36	95227	1.52	1.4025	1.627	1.627	0.0934	0.0934		
PCB-11	19:26	7987066	1.60	1.2951	147.8	147.8	0.1012	0.1012		
PCB-12	19:44	515773	1.49	1.3358	9.253	9.253	0.0981	0.0981		
PCB-13 (C12)	19:44	515773	1.49	1.3358	9.253	9.253	0.0981	0.0981		
PCB-15	20:03	155800	1.68	1.2903	2.099	2.099	0.0827	0.0827		
S Total Trichlorobiphenyls					14.5	14.3	0.0318	0.0318		RQ
D PCB-19L	17:12	1684451	1.04	0.6285	82.8	82.8	0.7606	0.7606	82.84	
* PCB-32L	20:29	3235238	1.07		100.0	100.0				
* PCB-31L	22:43	17029687	1.05		100.0	100.0				
\$ PCB-28L	23:01	14392894	1.04	1.0494	80.5	80.5	0.0881	0.0881	80.54	
D PCB-37L	27:00	12486952	1.06	0.8749	83.8	83.8	0.1056	0.1056	83.81	
PCB-19	17:12	4997	1.03	1.2809	0.2316	0.2316	0.0200	0.0200		
PCB-18	19:08	35690	0.88	1.7652	1.200	1.200	0.0145	0.0145		a
PCB-30 (C18)	19:08	35690	0.88	1.7652	1.200	1.200	0.0145	0.0145		a
PCB-17	19:33	20800	1.04	1.2430	1.170	0.993	0.0206	0.0206		RQa
PCB-27	19:47	4653	1.05	1.8327	0.1507	0.1507	0.0140	0.0140		a

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:51	2567	1.04	1.6777	0.1017	0.0908	0.0153	0.0153		RQM
PCB-16	20:01	17357	1.19	1.1286	0.9130	0.9130	0.0227	0.0227		M
PCB-32	20:32	19513	0.96	1.8324	0.6322	0.6322	0.0140	0.0140		a
PCB-34	21:45	7520	1.04	1.1277	0.0627	0.0534	0.0399	0.0399		RQ
PCB-23	21:54	9399	1.04	1.0813	0.0833	0.0696	0.0416	0.0416		RQ
PCB-26	22:12	68417	1.14	1.1255	0.4868	0.4868	0.0400	0.0400		
PCB-29 (C26)	22:12	68417	1.14	1.1255	0.4868	0.4868	0.0400	0.0400		
PCB-25	22:25	43517	1.04	1.2728	0.3058	0.2738	0.0354	0.0354		RQ
PCB-31	22:45	249369	1.12	1.1532	1.732	1.732	0.0390	0.0390		
PCB-20	23:02	297372	1.11	1.1718	2.032	2.032	0.0384	0.0384		
PCB-28 (C20)	23:02	297372	1.11	1.1718	2.032	2.032	0.0384	0.0384		
PCB-21	23:17	215311	0.92	1.0746	1.605	1.605	0.0419	0.0419		
PCB-33 (C21)	23:17	215311	0.92	1.0746	1.605	1.605	0.0419	0.0419		
PCB-22	23:40	108870	0.89	1.1932	0.7307	0.7307	0.0377	0.0377		
PCB-36	25:13	57788	0.93	1.1071	0.4180	0.4180	0.0407	0.0407		
PCB-39	25:35	23184	1.08	1.1581	0.1603	0.1603	0.0389	0.0389		
PCB-38	26:08	12084	1.04	1.0843	0.1124	0.0892	0.0415	0.0415		RQM
PCB-35	26:37	236158	1.10	1.1297	1.674	1.674	0.0398	0.0398		
PCB-37	27:01	105498	0.91	1.1435	0.7388	0.7388	0.0394	0.0394		
S Total Tetrachlorobiphenyls					18.4	18.2	0.0502	0.0502		RQ
D PCB-54L	20:20	2176385	0.80	0.5562	120.9	120.9	0.1302	0.1302	121	
* PCB-52L	24:50	7990247	0.81		100.0	100.0				
\$ PCB-79L	32:43	2851764	0.81	1.0018	33.2	33.2	0.2091	0.2091	99.53	
D PCB-81L	33:43	8475475	0.80	1.2470	85.1	85.1	0.1565	0.1565	85.07	
D PCB-77L	34:17	8685194	0.81	1.3212	82.3	82.3	0.1477	0.1477	82.27	
PCB-54	20:18						0.004586	0.004586		
PCB-50	22:28	12324	0.77	0.8578	0.1866	0.1674	0.0645	0.0645		RQ
PCB-53 (C50)	22:28	12324	0.77	0.8578	0.1866	0.1674	0.0645	0.0645		RQ
PCB-45	23:12	248451	0.78	0.8264	3.504	3.504	0.0669	0.0669		
PCB-51 (C45)	23:12	248451	0.78	0.8264	3.504	3.504	0.0669	0.0669		
PCB-46	23:26						0.0779	0.0779		
PCB-52	24:52	143249	0.77	0.9194	1.816	1.816	0.0601	0.0601		
PCB-43	24:59						0.0535	0.0535		
PCB-73 (C43)	24:59						0.0535	0.0535		
PCB-49	25:20	62120	0.80	1.0685	0.6775	0.6775	0.0517	0.0517		
PCB-69 (C49)	25:20	62120	0.80	1.0685	0.6775	0.6775	0.0517	0.0517		
PCB-48	25:37	20068	0.82	0.8399	0.2785	0.2785	0.0658	0.0658		
PCB-44	25:52	593166	0.77	0.9731	7.104	7.104	0.0568	0.0568		
PCB-47 (C44)	25:52	593166	0.77	0.9731	7.104	7.104	0.0568	0.0568		
PCB-65 (C44)	25:52	593166	0.77	0.9731	7.104	7.104	0.0568	0.0568		
PCB-59	26:10						0.0466	0.0466		
PCB-62 (C59)	26:10						0.0466	0.0466		
PCB-75 (C59)	26:10						0.0466	0.0466		
PCB-42	26:23	16866	0.77	0.8097	0.2701	0.2428	0.0683	0.0683		RQM
PCB-40	26:53	41080	0.68	0.8863	0.5402	0.5402	0.0624	0.0624		M
PCB-41 (C40)	26:53	41080	0.68	0.8863	0.5402	0.5402	0.0624	0.0624		M
PCB-71 (C40)	26:53	41080	0.68	0.8863	0.5402	0.5402	0.0624	0.0624		M
PCB-64	27:05	42757	0.81	1.1776	0.4232	0.4232	0.0469	0.0469		a
PCB-72	27:53						0.0505	0.0505		
PCB-68	28:12	93514	0.77	1.2533	0.9388	0.8696	0.0441	0.0441		RQ
PCB-57	28:36						0.0511	0.0511		
PCB-58	28:51						0.0417	0.0417		
PCB-67	29:00						0.0389	0.0389		
PCB-63	29:16						0.0492	0.0492		
PCB-61	29:37	123149	0.81	1.2612	1.138	1.138	0.0438	0.0438		
PCB-70 (C61)	29:37	123149	0.81	1.2612	1.138	1.138	0.0438	0.0438		
PCB-74 (C61)	29:37	123149	0.81	1.2612	1.138	1.138	0.0438	0.0438		
PCB-76 (C61)	29:37	123149	0.81	1.2612	1.138	1.138	0.0438	0.0438		
PCB-66	29:57	51039	0.77	1.2583	0.5487	0.4727	0.0439	0.0439		RQ
PCB-55	30:06						0.0418	0.0418		
PCB-56	30:36	37598	0.72	1.2334	0.3553	0.3553	0.0448	0.0448		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:49	33156	0.87	1.1230	0.3441	0.3441	0.0492	0.0492		M
PCB-80	31:13						0.0417	0.0417		
PCB-79	32:45						0.0385	0.0385		
PCB-78	33:18						0.0476	0.0476		
PCB-81	33:44						0.0508	0.0508		
PCB-77	34:19	29281	0.81	1.0836	0.3111	0.3111	0.0514	0.0514		
S Total Pentachlorobiphenyls					4.024	3.352	0.0496	0.0496		RQ
D PCB-104L	25:46	4946527	1.61	1.2161	84.6	84.6	0.0372	0.0372	84.65	
\$ PCB-95L	28:44	1236229	1.64	0.7218	34.6	34.6	0.0561	0.0561	104	
* PCB-101L	31:39	4805417	1.63		100.0	100.0				
\$ PCB-111L	34:19	5683686	1.62	1.3699	86.3	86.3	0.0330	0.0330	86.34	
D PCB-123L	36:17	9609893	1.57	0.9731	84.0	84.0	0.9622	0.9622	84.02	
D PCB-118L	36:36	10173867	1.59	1.0102	85.7	85.7	0.9270	0.9270	85.69	
D PCB-114L	37:08	9871630	1.61	0.9949	84.4	84.4	0.9412	0.9412	84.43	
D PCB-105L	37:47	9643555	1.57	0.9514	86.2	86.2	0.9842	0.9842	86.24	
* PCB-127L	39:15	11753044	1.59		100.0	100.0				
D PCB-126L	40:52	9687044	1.61	0.9439	87.3	87.3	0.992	0.992	87.32	
PCB-104	25:47						0.0157	0.0157		
PCB-96	26:10						0.0145	0.0145		
PCB-103	28:04						0.0182	0.0182		
PCB-94	28:18						0.0208	0.0208		
PCB-95	28:45	16549	1.55	0.8033	0.5835	0.4165	0.0198	0.0198		RQMa
PCB-93	28:57						0.0188	0.0188		
PCB-100 (C93)	28:57						0.0188	0.0188		
PCB-98	29:06						0.0192	0.0192		
PCB-102 (C98)	29:06						0.0192	0.0192		
PCB-88	29:37	4379	1.55	0.8013	0.1251	0.1105	0.0198	0.0198		RQ
PCB-91 (C88)	29:37	4379	1.55	0.8013	0.1251	0.1105	0.0198	0.0198		RQ
PCB-84	29:50	7525	1.55	0.7299	0.2289	0.2084	0.0217	0.0217		RQ
PCB-89	30:18						0.0203	0.0203		
PCB-121	30:42						0.0122	0.0122		
PCB-92	31:08	4565	1.55	0.8546	0.1255	0.1080	0.0186	0.0186		RQ
PCB-90	31:41	28598	1.76	0.9550	0.6054	0.6054	0.0166	0.0166		
PCB-101 (C90)	31:41	28598	1.76	0.9550	0.6054	0.6054	0.0166	0.0166		
PCB-113 (C90)	31:41	28598	1.76	0.9550	0.6054	0.6054	0.0166	0.0166		
PCB-83	32:16	10483	1.55	0.8385	0.2874	0.2527	0.0189	0.0189		RQM
PCB-99 (C83)	32:16	10483	1.55	0.8385	0.2874	0.2527	0.0189	0.0189		RQM
PCB-112	32:22						0.0112	0.0112		
PCB-86	32:41	39139	1.55	1.0473	1.018	0.7555	0.0152	0.0152		RQM
PCB-87 (C86)	32:41	39139	1.55	1.0473	1.018	0.7555	0.0152	0.0152		RQM
PCB-97 (C86)	32:41	39139	1.55	1.0473	1.018	0.7555	0.0152	0.0152		RQM
PCB-109 (C86)	32:41	39139	1.55	1.0473	1.018	0.7555	0.0152	0.0152		RQM
PCB-119 (C86)	32:41	39139	1.55	1.0473	1.018	0.7555	0.0152	0.0152		RQM
PCB-125 (C86)	32:41	39139	1.55	1.0473	1.018	0.7555	0.0152	0.0152		RQM
PCB-85	33:30	4394	1.67	1.0408	0.0853	0.0853	0.0152	0.0152		
PCB-116 (C85)	33:30	4394	1.67	1.0408	0.0853	0.0853	0.0152	0.0152		
PCB-117 (C85)	33:30	4394	1.67	1.0408	0.0853	0.0853	0.0152	0.0152		
PCB-110	33:39	27231	1.55	1.1919	0.5283	0.4619	0.0133	0.0133		RQ
PCB-115 (C110)	33:39	27231	1.55	1.1919	0.5283	0.4619	0.0133	0.0133		RQ
PCB-82	33:56	1379	1.55	0.8303	0.1040	0.0336	0.0191	0.0191		RQ
PCB-111	34:20						0.0131	0.0131		
PCB-120	34:45	688	1.55	1.4762	0.0284	0.009422	0.0107	0.0107		RQ
PCB-108	35:56						0.1156	0.1156		
PCB-124 (C108)	35:56						0.1156	0.1156		
PCB-107	36:10						0.1088	0.1088		
PCB-123	36:18						0.1226	0.1226		
PCB-106	36:25						0.1216	0.1216		
PCB-118	36:38	37326	1.48	1.2055	0.3043	0.3043	0.1059	0.1059		
PCB-122	36:59						0.1378	0.1378		
PCB-114	37:09						0.1172	0.1172		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:48						0.1130	0.1130		
PCB-127	39:16						0.1157	0.1157		
PCB-126	40:53						0.1272	0.1272		
S Total Hexachlorobiphenyls					1.666	1.518	0.006555	0.006555		RQ
D PCB-155L	31:25	4438538	1.28	1.0851	85.1	85.1	0.0406	0.0406	85.12	
\$ PCB-153L	38:28	2071158	1.26	0.9169	30.1	30.1	0.9064	0.9064	90.16	
* PCB-138L	39:43	6998049	1.30		100.0	100.0				
D PCB-167L	42:43	7838408	1.29	1.2572	89.1	89.1	0.5815	0.5815	89.09	
D PCB-156L	43:52	14994055	1.30	1.2106	177.0	177.0	0.6039	0.6039	88.49	
D PCB-157L (C156L)	43:52	14994055	1.30	1.2106	177.0	177.0	0.6039	0.6039	88.49	
D PCB-169L	47:06	7229923	1.32	1.2439	83.1	83.1	0.5878	0.5878	83.06	
PCB-155	31:27	1630	1.24	0.9444	0.0425	0.0389	0.003485	0.003485		RQ
PCB-152	31:39						0.003326	0.003326		
PCB-150	31:48						0.003248	0.003248		
PCB-136	32:10	2416	1.24	1.0116	0.0819	0.0538	0.003254	0.003254		RQ
PCB-145	32:28						0.003398	0.003398		
PCB-148	33:57						0.004329	0.004329		
PCB-135	34:34	4310	1.24	0.7256	0.1939	0.1338	0.004536	0.004536		RQM
PCB-151 (C135)	34:34	4310	1.24	0.7256	0.1939	0.1338	0.004536	0.004536		RQM
PCB-154	34:48						0.004049	0.004049		
PCB-144	35:07						0.004191	0.004191		
PCB-147	35:30	25195	1.07	0.8950	0.3746	0.3746	0.008083	0.008083		
PCB-149 (C147)	35:30	25195	1.07	0.8950	0.3746	0.3746	0.008083	0.008083		
PCB-134	35:45	1735	1.13	0.7967	0.0290	0.0290	0.009081	0.009081		
PCB-143 (C134)	35:45	1735	1.13	0.7967	0.0290	0.0290	0.009081	0.009081		
PCB-139	36:04						0.008250	0.008250		
PCB-140 (C139)	36:04						0.008250	0.008250		
PCB-131	36:17						0.009642	0.009642		
PCB-142	36:25						0.009637	0.009637		
PCB-132	36:46	7518	1.43	0.7489	0.1336	0.1336	0.009660	0.009660		
PCB-133	37:14						0.008936	0.008936		
PCB-165	37:38						0.007060	0.007060		
PCB-146	37:52	4496	1.21	0.9637	0.0621	0.0621	0.007507	0.007507		M
PCB-161	38:00						0.006409	0.006409		
PCB-153	38:31	19450	1.15	1.0938	0.2366	0.2366	0.006614	0.006614		
PCB-168 (C153)	38:31	19450	1.15	1.0938	0.2366	0.2366	0.006614	0.006614		
PCB-141	38:40	4629	1.24	0.8755	0.0792	0.0703	0.008263	0.008263		RQ
PCB-130	39:06						0.0103	0.0103		
PCB-137	39:19						0.009315	0.009315		
PCB-164	39:25	1070	1.24	1.0382	0.0229	0.0137	0.006968	0.006968		RQ
PCB-129	39:45	18653	1.34	0.9464	0.2622	0.2622	0.007644	0.007644		
PCB-138 (C129)	39:45	18653	1.34	0.9464	0.2622	0.2622	0.007644	0.007644		
PCB-160 (C129)	39:45	18653	1.34	0.9464	0.2622	0.2622	0.007644	0.007644		
PCB-163 (C129)	39:45	18653	1.34	0.9464	0.2622	0.2622	0.007644	0.007644		
PCB-158	40:10	1495	1.24	1.3110	0.0264	0.0152	0.005518	0.005518		RQM
PCB-128	41:00	1974	1.24	0.9829	0.0479	0.0267	0.007360	0.007360		RQM
PCB-166 (C128)	41:00	1974	1.24	0.9829	0.0479	0.0267	0.007360	0.007360		RQM
PCB-159	41:58						0.005221	0.005221		RQU
PCB-162	42:17	1894	1.30	1.2571	0.0200	0.0200	0.005755	0.005755		
PCB-167	42:44						0.005118	0.005118		
PCB-156	43:56	3247	1.14	1.1104	0.0390	0.0390	0.008075	0.008075		M
PCB-157 (C156)	43:56	3247	1.14	1.1104	0.0390	0.0390	0.008075	0.008075		M
PCB-169	47:06	670	1.24	1.1628	0.0140	0.007969	0.005557	0.005557		RQ
S Total Heptachlorobiphenyls					0.4858	0.3844	0.004417	0.004417		RQ
D PCB-188L	37:07	5538582	1.08	1.3133	83.6	83.6	0.0298	0.0298	83.61	
\$ PCB-178L	40:10	4384016	1.07	1.0313	84.3	84.3	0.0380	0.0380	84.27	
* PCB-180L	45:15	5044080	1.09		100.0	100.0				
D PCB-170L	46:30	3559455	1.07	0.8362	84.4	84.4	0.0468	0.0468	84.39	
D PCB-189L	49:36	10925418	1.08	1.4414	97.8	97.8	0.3294	0.3294	97.79	
PCB-188	37:08						0.002899	0.002899		



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:30	2409	1.05	1.4276	0.0444	0.0371	0.002890	0.002890		RQ
PCB-184	37:57	291	1.05	1.3672	0.007637	0.004679	0.003018	0.003018		RQ
PCB-176	38:24	719	1.05	1.2331	0.0168	0.0128	0.003346	0.003346		RQ
PCB-186	38:49						0.002800	0.002800		
PCB-178	40:10	344	1.05	0.8946	0.0268	0.008453	0.004612	0.004612		RQ
PCB-175	40:49						0.004332	0.004332		
PCB-187	41:05	4634	1.05	1.1018	0.1019	0.0925	0.003745	0.003745		RQ
PCB-182	41:17						0.004462	0.004462		
PCB-183	41:43	4400	1.05	0.9825	0.1350	0.0984	0.004199	0.004199		RQM
PCB-185 (C183)	41:43	4400	1.05	0.9825	0.1350	0.0984	0.004199	0.004199		RQM
PCB-174	41:57						0.004279	0.004279		RQU
PCB-177	42:23						0.004222	0.004222		
PCB-181	42:46						0.004341	0.004341		
PCB-171	43:03						0.004419	0.004419		RQU
PCB-173 (C171)	43:03						0.004419	0.004419		RQU
PCB-172	44:37						0.004843	0.004843		
PCB-192	44:54						0.003066	0.003066		
PCB-180	45:15	4028	1.05	1.1676	0.0956	0.0758	0.003534	0.003534		RQM
PCB-193 (C180)	45:15	4028	1.05	1.1676	0.0956	0.0758	0.003534	0.003534		RQM
PCB-191	45:37						0.003201	0.003201		
PCB-170	46:34	1472	1.16	1.1865	0.0349	0.0349	0.004661	0.004661		Ma
PCB-190	47:02	1199	1.05	1.3322	0.0228	0.0198	0.003097	0.003097		RQM
PCB-189	49:37						0.0168	0.0168		
S Total Octachlorobiphenyls					0.1550	0.1446	0.006430	0.006430		RQ
D PCB-202L	42:29	4088523	0.92	0.9818	82.6	82.6	0.0275	0.0275	82.56	
* PCB-194L	51:43	7751160	0.92		100.0	100.0				
D PCB-205L	52:10	8098760	0.92	1.1786	88.7	88.7	0.0571	0.0571	88.66	
PCB-202	42:30						0.005680	0.005680		
PCB-201	43:26	573	0.89	0.9754	0.0162	0.0144	0.006032	0.006032		RQ
PCB-204	44:05						0.005611	0.005611		
PCB-197	44:18						0.005135	0.005135		
PCB-200	44:26						0.005841	0.005841		
PCB-198	47:16	1273	0.89	0.8698	0.0417	0.0358	0.006764	0.006764		RQ
PCB-199 (C198)	47:16	1273	0.89	0.8698	0.0417	0.0358	0.006764	0.006764		RQ
PCB-196	47:53	2082	0.93	0.7806	0.0652	0.0652	0.007536	0.007536		
PCB-203	48:04						0.006331	0.006331		
PCB-195	49:24						0.008358	0.008358		
PCB-194	51:42	1716	0.86	0.9735	0.0218	0.0218	0.007094	0.007094		M
PCB-205	52:10	655	0.89	1.0878	0.0101	0.007435	0.006349	0.006349		RQM
S Total Nonachlorobiphenyls							0.1098	0.1098		
D PCB-208L	49:08	5942981	0.81	0.9576	80.1	80.1	0.1743	0.1743	80.07	
D PCB-206L	53:56	4215967	0.82	0.6947	78.3	78.3	0.2403	0.2403	78.30	
PCB-208	49:09						0.0896	0.0896		
PCB-207	50:05						0.0874	0.0874		
PCB-206	53:58						0.1098	0.1098		
D PCB-209L	55:33	4144228	0.72	0.6669	80.2	80.2	0.0332	0.0332	80.17	
DCB Decachlorobiphenyl	55:35						0.005606	0.005606		
S Polychlorinated biphenyls, Total					214.7		0.0401	0.0401		RQ

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-1-c.d  
Lims ID: 140-36940-A-1-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 04:00:00 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-009  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 12:03:38 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 12:03:38

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:40	11:43	-2	0.726	4163270	1674716	3358	8395	499		
202.0766	11:40	11:43	-2	0.726	1272155	508796	3114	7785	163	3.27(2.66-3.60)	
PCB-3L											
200.0795	13:49	13:52	-2	0.861	6483144	2165261	3358	8395	645		
202.0766	13:49	13:52	-2	0.861	2045160	689415	3114	7785	221	3.17(2.66-3.60)	
PCB-1											
188.0393	11:40	11:42	-2	1.001	2606209	950195	3748	9370	254		
190.0363	11:40	11:42	-2	1.001	744949	283592	638	1595	445	3.50(2.66-3.60)	
PCB-2											
188.0393	13:39	13:42	-2	0.989	7209484	2472781	3748	9370	660		
190.0363	13:39	13:42	-2	0.989	2283115	778280	638	1595	1220	3.16(2.66-3.60)	
PCB-3											
188.0393	13:50	13:52	-2	1.001	5583814	1820779	3748	9370	486		
190.0363	13:50	13:52	-2	1.001	1776934	578494	638	1595	907	3.14(2.66-3.60)	
PCB-4L											
234.0406	14:05	14:08	-2	0.877	1590989	531083	569	1422	933		
236.0376	14:05	14:08	-2	0.877	1001896	327602	1259	3147	260	1.59(1.33-1.79)	
PCB-9L											
234.0406	16:03	16:04	-1		4257326	1258963	569	1422	2213		
236.0376	16:03	16:04	-1		2694124	781520	1259	3147	621	1.58(1.33-1.79)	
PCB-8L											
234.0406	16:54	16:51	0	1.201	950330	248515	569	1422	437		
236.0376	16:53	16:51	-1	1.200	562379	146947	1259	3147	117	1.69(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	20:02	20:00	3	1.248	3583451	849991	569	1422	1494		
236.0376	20:02	20:00	3	1.248	2169320	514747	1259	3147	409	1.65(1.33-1.79)	
PCB-4											
222.0003	14:05	14:09	-2	1.001	41512	13513	301	752	45		RQ
	Empc Correction				35126	11604	301	752	39		
223.9974	14:05	14:09	-2	1.001	22517	7439	282	705	26	1.84(1.33-1.79)	
PCB-10											
222.0003	14:15	14:20	-2	1.012	23085	7838	301	752	26		
223.9974	14:16	14:20	-2	1.013	16737	5080	282	705	18	1.38(1.33-1.79)	
PCB-9											
222.0003	16:04	16:07	-1	1.141	34581	10732	301	752	36		
223.9974	16:04	16:07	-1	1.141	21227	6453	282	705	23	1.63(1.33-1.79)	
PCB-7											
222.0003	16:13	16:17	-2	1.152	158543	44541	301	752	148		
223.9974	16:13	16:17	-2	1.152	95189	29344	282	705	104	1.67(1.33-1.79)	
PCB-6											
222.0003	16:29	16:32	0	1.171	68043	17427	301	752	58		
223.9974	16:28	16:32	-1	1.170	41919	12161	282	705	43	1.62(1.33-1.79)	
PCB-5											
222.0003	16:47	16:45	-1	1.192	37453	10488	301	752	35		
223.9974	16:47	16:45	-1	1.192	23059	6019	282	705	21	1.62(1.33-1.79)	
PCB-8											
222.0003	16:55	16:58	0	1.202	163078	46847	301	752	156		
223.9974	16:55	16:58	0	1.202	96166	26988	282	705	96	1.70(1.33-1.79)	
PCB-14											
222.0003	18:36	18:37	4	0.928	57437	12113	301	752	40		
223.9974	18:35	18:37	3	0.928	37790	8526	282	705	30	1.52(1.33-1.79)	
PCB-11											
222.0003	19:26	19:28	4	0.970	4911388	1228931	301	752	4083		
223.9974	19:26	19:28	4	0.970	3075678	765883	282	705	2716	1.60(1.33-1.79)	
PCB-12											
222.0003	19:44	19:46	4	0.986	308525	49781	301	752	165		
223.9974	19:45	19:46	5	0.986	207248	33892	282	705	120	1.49(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:44	19:46	4	0.986	308525	49781	301	752	165		
223.9974	19:45	19:46	5	0.986	207248	33892	282	705	120	1.49(1.33-1.79)	
PCB-15											
222.0003	20:03	20:05	4	1.001	97721	20261	301	752	67		
223.9974	20:02	20:05	3	1.001	58079	11440	282	705	41	1.68(1.33-1.79)	
PCB-19L											
268.0016	17:12	17:17	0	0.840	857337	236742	787	1967	301		
269.9986	17:12	17:17	0	0.840	827114	231920	526	1315	441	1.04(0.88-1.20)	
PCB-32L											
268.0016	20:29	20:27	2		1672649	351757	787	1967	447		
269.9986	20:29	20:27	2		1562589	334729	526	1315	636	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:43	22:42	1		8724238	2121840	898	2245	2363		
269.9986	22:43	22:42	1		8305449	2027540	636	1590	3188	1.05(0.88-1.20)	
PCB-28L											
268.0016	23:01	23:02	2	1.013	7353640	1700870	898	2245	1894		
269.9986	23:01	23:02	2	1.013	7039254	1627917	636	1590	2560	1.04(0.88-1.20)	
PCB-37L											
268.0016	27:00	27:03	1	1.189	6417256	1336652	898	2245	1488		
269.9986	27:00	27:03	1	1.189	6069696	1262540	636	1590	1985	1.06(0.88-1.20)	
PCB-19											
255.9613	17:12	17:15	-1	1.000	2537	651	26	65	25		
257.9584	17:12	17:15	-1	1.000	2460	800	22	55	36	1.03(0.88-1.20)	
PCB-18											
255.9613	19:08	19:08	6	1.112	16664	3568	26	65	137		a
257.9584	19:10	19:08	8	1.114	19026	3545	22	55	161	0.88(0.88-1.20)	a
PCB-30 (C18)											
255.9613	19:08	19:08	6	1.112	16664	3568	26	65	137		a
257.9584	19:10	19:08	8	1.114	19026	3545	22	55	161	0.88(0.88-1.20)	a
PCB-17											
255.9613	19:33	19:33	4	1.137	10604	2525	26	65	97		RQa
257.9584	19:33	19:33	4	1.137	13895	3133	22	55	142	0.76(0.88-1.20)	a
Empc Correction					10196	2427	22	55	110		
PCB-27											
255.9613	19:47	19:47	4	1.150	2381	792	26	65	30		a
257.9584	19:45	19:47	2	1.148	2272	801	22	55	36	1.05(0.88-1.20)	a
PCB-24											
255.9613	19:51	19:51	1	1.154	1309	332	26	65	13		RQM
257.9584	19:51	19:51	1	1.154	1564	372	22	55	17	0.84(0.88-1.20)	M
Empc Correction					1258	319	22	55	15		
PCB-16											
255.9613	20:01	20:01	3	1.164	9415	2119	26	65	82		M
257.9584	20:00	20:01	2	1.163	7942	1660	22	55	75	1.19(0.88-1.20)	M
PCB-32											
255.9613	20:32	20:32	4	1.193	9538	2497	26	65	96		a
257.9584	20:31	20:32	3	1.193	9975	2363	22	55	107	0.96(0.88-1.20)	a
PCB-34											
255.9613	21:45	21:40	2	1.264	3834	1222	227	567	5		RQ
257.9584	21:46	21:40	3	1.266	5001	1195	241	602	5	0.77(0.88-1.20)	
Empc Correction					3686	1175	241	602	5		
PCB-23											
255.9613	21:54	21:49	3	1.273	4792	1174	227	567	5		RQ
257.9584	21:54	21:49	3	1.273	6462	1556	241	602	6	0.74(0.88-1.20)	
Empc Correction					4607	1128	241	602	5		
PCB-26											
255.9613	22:12	22:14	1	1.290	36513	8820	227	567	39		
257.9584	22:12	22:14	2	1.291	31904	6998	241	602	29	1.14(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											
255.9613	22:12	22:14	1	1.290	36513	8820	227	567	39		
257.9584	22:12	22:14	2	1.291	31904	6998	241	602	29	1.14(0.88-1.20)	
PCB-25											
255.9613	22:25	22:27	1	0.830	27270	5466	227	567	24		RQ
	Empc Correction				22185	4559	227	567	20		
257.9584	22:25	22:27	1	0.830	21332	4384	241	602	18	1.28(0.88-1.20)	
PCB-31											
255.9613	22:45	22:45	2	0.842	131735	30470	227	567	134		
257.9584	22:45	22:45	2	0.842	117634	29583	241	602	123	1.12(0.88-1.20)	
PCB-20											
255.9613	23:02	22:58	1	0.853	156443	36419	227	567	160		
257.9584	23:01	22:58	0	0.853	140929	32886	241	602	136	1.11(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:02	22:58	1	0.853	156443	36419	227	567	160		
257.9584	23:01	22:58	0	0.853	140929	32886	241	602	136	1.11(0.88-1.20)	
PCB-21											
255.9613	23:17	23:17	2	0.862	103459	22872	227	567	101		
257.9584	23:17	23:17	2	0.862	111852	21775	241	602	90	0.92(0.88-1.20)	
PCB-33 (C21)											
255.9613	23:17	23:17	2	0.862	103459	22872	227	567	101		
257.9584	23:17	23:17	2	0.862	111852	21775	241	602	90	0.92(0.88-1.20)	
PCB-22											
255.9613	23:40	23:40	1	0.876	51274	13789	227	567	61		
257.9584	23:40	23:40	1	0.876	57596	11453	241	602	48	0.89(0.88-1.20)	
PCB-36											
255.9613	25:13	25:14	1	0.934	27852	5824	227	567	26		
257.9584	25:12	25:14	0	0.933	29936	6340	241	602	26	0.93(0.88-1.20)	
PCB-39											
255.9613	25:35	25:36	2	0.947	12020	2315	227	567	10		
257.9584	25:35	25:36	2	0.947	11164	2120	241	602	9	1.08(0.88-1.20)	
PCB-38											
255.9613	26:08	26:08	0	0.968	9295	1680	227	567	7		RQM
	Empc Correction				6160	1382	227	567	6		
257.9584	26:08	26:08	0	0.968	5924	1329	241	602	6	1.57(0.88-1.20)	M
PCB-35											
255.9613	26:37	26:35	1	0.986	123682	24820	227	567	109		
257.9584	26:37	26:35	1	0.986	112476	23497	241	602	97	1.10(0.88-1.20)	
PCB-37											
255.9613	27:01	26:59	1	1.001	50340	11631	227	567	51		
257.9584	27:01	26:59	0	1.000	55158	11377	241	602	47	0.91(0.88-1.20)	
PCB-54L											
301.9626	20:20	20:19	3	0.819	970410	243848	138	345	1767		
303.9597	20:20	20:19	3	0.819	1205975	304185	61	152	4987	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:50	24:49	0		3586599	815663	668	1670	1221		
303.9597	24:50	24:49	0		4403648	999869	749	1872	1335	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-79L											
301.9626	32:43	32:42	0	0.970	1279910	254310	668	1670	381		
303.9597	32:43	32:42	0	0.970	1571854	313582	749	1872	419	0.81(0.65-0.89)	
PCB-81L											
301.9626	33:43	33:47	0	1.358	3774720	759913	668	1670	1138		
303.9597	33:43	33:47	0	1.358	4700755	942423	749	1872	1258	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:17	34:20	0	1.381	3898828	749478	668	1670	1122		
303.9597	34:17	34:20	0	1.381	4786366	930557	749	1872	1242	0.81(0.65-0.89)	
PCB-54											
289.9224	20:18						2	5			
291.9194	20:18						11	27			
PCB-50											
289.9224	22:28	22:35	0	1.105	6771	1436	150	375	10		RQ
	Empc Correction				5361	1194	150	375	8		
291.9194	22:28	22:35	1	1.106	6963	1551	224	560	7	0.97(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:28	22:35	0	1.105	6771	1436	150	375	10		RQ
	Empc Correction				5361	1194	150	375	8		
291.9194	22:28	22:35	1	1.106	6963	1551	224	560	7	0.97(0.65-0.89)	
PCB-45											
289.9224	23:12	23:19	1	1.141	109117	26086	150	375	174		
291.9194	23:12	23:19	1	1.141	139334	29279	224	560	131	0.78(0.65-0.89)	
PCB-51 (C45)											
289.9224	23:12	23:19	1	1.141	109117	26086	150	375	174		
291.9194	23:12	23:19	1	1.141	139334	29279	224	560	131	0.78(0.65-0.89)	
PCB-46											
289.9224	23:30						150	375			
291.9194	23:30						224	560			
PCB-52											
289.9224	24:52	24:59	1	1.223	62539	14486	150	375	97		
291.9194	24:51	24:59	0	1.223	80710	18838	224	560	84	0.77(0.65-0.89)	
PCB-43											
289.9224	25:03						150	375			
291.9194	25:03						224	560			
PCB-73 (C43)											
289.9224	25:03						150	375			
291.9194	25:03						224	560			
PCB-49											
289.9224	25:20	25:24	4	1.247	27606	6096	150	375	41		
291.9194	25:19	25:24	3	1.246	34514	7332	224	560	33	0.80(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:20	25:24	4	1.247	27606	6096	150	375	41		
291.9194	25:19	25:24	3	1.246	34514	7332	224	560	33	0.80(0.65-0.89)	
PCB-48											
289.9224	25:37	25:44	1	1.260	9033	2400	150	375	16		
291.9194	25:37	25:44	1	1.260	11035	2425	224	560	11	0.82(0.65-0.89)	

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	RT	Adj RT	$\sigma$	REL			Avg	EDL	
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Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-67											
289.9224	29:00						150	375			
291.9194	29:00						224	560			
PCB-63											
289.9224	29:16						150	375			
291.9194	29:16						224	560			
PCB-61											
289.9224	29:37	29:39	0	0.878	54978	8770	150	375	58		
291.9194	29:36	29:39	0	0.878	68171	10098	224	560	45	0.81(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:37	29:39	0	0.878	54978	8770	150	375	58		
291.9194	29:36	29:39	0	0.878	68171	10098	224	560	45	0.81(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:37	29:39	0	0.878	54978	8770	150	375	58		
291.9194	29:36	29:39	0	0.878	68171	10098	224	560	45	0.81(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:37	29:39	0	0.878	54978	8770	150	375	58		
291.9194	29:36	29:39	0	0.878	68171	10098	224	560	45	0.81(0.65-0.89)	
PCB-66											
289.9224	29:57	29:59	1	0.888	30399	5889	150	375	39		RQ
	Empc Correction				22203	4362	150	375	29		
291.9194	29:56	29:59	0	0.888	28836	5666	224	560	25	1.05(0.65-0.89)	
PCB-55											
289.9224	30:06						150	375			
291.9194	30:06						224	560			
PCB-56											
289.9224	30:36	30:39	0	0.907	15693	3113	150	375	21		
291.9194	30:38	30:39	1	0.908	21905	4319	224	560	19	0.72(0.65-0.89)	
PCB-60											
289.9224	30:49	30:49	0	0.914	15416	3138	150	375	21		M
291.9194	30:48	30:49	0	0.914	17740	3944	224	560	18	0.87(0.65-0.89)	M
PCB-80											
289.9224	31:13						150	375			
291.9194	31:13						224	560			
PCB-79											
289.9224	32:45						150	375			
291.9194	32:45						224	560			
PCB-78											
289.9224	33:18						150	375			
291.9194	33:18						224	560			
PCB-81											
289.9224	33:44						150	375			
291.9194	33:44						224	560			
PCB-77											
289.9224	34:19	34:20	1	1.001	13134	2240	150	375	15		
291.9194	34:19	34:20	0	1.001	16147	3055	224	560	14	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-104L											
337.9207	25:46	25:48	0	0.814	3051539	688202	134	335	5136		
339.9178	25:46	25:48	0	0.814	1894988	427367	47	117	9093	1.61(1.32-1.78)	
PCB-95L											
337.9207	28:44	28:42	0	1.116	767318	161124	134	335	1202		
339.9178	28:44	28:42	0	1.116	468911	100171	47	117	2131	1.64(1.32-1.78)	
PCB-101L											
337.9207	31:39	31:39	0		2979797	613970	134	335	4582		
339.9178	31:39	31:39	0		1825620	385266	47	117	8197	1.63(1.32-1.78)	
PCB-111L											
337.9207	34:19	34:21	1	1.084	3512198	714986	134	335	5336		
339.9178	34:19	34:21	1	1.084	2171488	448240	47	117	9537	1.62(1.32-1.78)	
PCB-123L											
337.9207	36:17	36:19	1	1.146	5873362	1189854	5155	12887	231		
339.9178	36:17	36:19	1	1.146	3736531	753938	3353	8382	225	1.57(1.32-1.78)	
PCB-118L											
337.9207	36:36	36:39	0	1.156	6245191	1224496	5155	12887	238		
339.9178	36:36	36:39	0	1.156	3928676	777350	3353	8382	232	1.59(1.32-1.78)	
PCB-114L											
337.9207	37:08	37:11	0	1.173	6087204	1240567	5155	12887	241		
339.9178	37:08	37:11	0	1.173	3784426	770152	3353	8382	230	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:47	37:50	0	1.194	5888819	1163906	5155	12887	226		
339.9178	37:47	37:50	0	1.194	3754736	739764	3353	8382	221	1.57(1.32-1.78)	
PCB-127L											
337.9207	39:15	39:14	1		7218095	1409335	5155	12887	273		
339.9178	39:15	39:14	1		4534949	862168	3353	8382	257	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:52	40:55	1	1.291	5969687	1124328	5155	12887	218		
339.9178	40:52	40:55	1	1.291	3717357	705717	3353	8382	210	1.61(1.32-1.78)	
PCB-104											
325.8804	25:47						56	140			
327.8775	25:47						15	37			
PCB-96											
325.8804	26:10						56	140			
327.8775	26:10						15	37			
PCB-103											
325.8804	28:07						56	140			
327.8775	28:07						15	37			
PCB-94											
325.8804	28:21						56	140			
327.8775	28:21						15	37			
PCB-95											
325.8804	28:45	28:47	0	1.116	16694	3645	56	140	65		RQMa
	Empc Correction				10059	2921	56	140	52		a
327.8775	28:47	28:47	2	1.117	6490	1885	15	37	126	2.57(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-93											
325.8804	28:57						56	140			
327.8775	28:57						15	37			
PCB-100 (C93)											
325.8804	28:57						56	140			
327.8775	28:57						15	37			
PCB-98											
325.8804	29:07						56	140			
327.8775	29:07						15	37			
PCB-102 (C98)											
325.8804	29:07						56	140			
327.8775	29:07						15	37			
PCB-88											
325.8804	29:37	29:39	1	1.150	2662	716	56	140	13		RQ
327.8775	29:38	29:39	2	1.150	2297	611	15	37	41	1.16(1.32-1.78)	
	Empc Correction				1717	461	15	37	31		
PCB-91 (C88)											
325.8804	29:37	29:39	1	1.150	2662	716	56	140	13		RQ
327.8775	29:38	29:39	2	1.150	2297	611	15	37	41	1.16(1.32-1.78)	
	Empc Correction				1717	461	15	37	31		
PCB-84											
325.8804	29:50	29:54	0	1.158	5314	1037	56	140	19		RQ
	Empc Correction				4574	1040	56	140	19		
327.8775	29:51	29:54	0	1.159	2951	671	15	37	45	1.80(1.32-1.78)	
PCB-89											
325.8804	30:19						56	140			
327.8775	30:19						15	37			
PCB-121											
325.8804	30:42						56	140			
327.8775	30:42						15	37			
PCB-92											
325.8804	31:08	31:04	3	0.858	2775	584	56	140	10		RQ
327.8775	31:04	31:04	-1	0.856	2528	607	15	37	40	1.10(1.32-1.78)	
	Empc Correction				1790	376	15	37	25		
PCB-90											
325.8804	31:41	31:42	3	1.230	18250	3658	56	140	65		
327.8775	31:40	31:42	1	1.229	10348	2456	15	37	164	1.76(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:41	31:42	3	1.230	18250	3658	56	140	65		
327.8775	31:40	31:42	1	1.229	10348	2456	15	37	164	1.76(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:41	31:42	3	1.230	18250	3658	56	140	65		
327.8775	31:40	31:42	1	1.229	10348	2456	15	37	164	1.76(1.32-1.78)	
PCB-83											
325.8804	32:16	32:16	2	1.253	7811	1566	56	140	28		RQM
	Empc Correction				6372	1418	56	140	25		M
327.8775	32:14	32:16	0	1.252	4111	915	15	37	61	1.90(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-99 (C83)											RQM
325.8804	32:16	32:16	2	1.253	7811	1566	56	140	28		M
	Empc Correction				6372	1418	56	140	25		
327.8775	32:14	32:16	0	1.252	4111	915	15	37	61	1.90(1.32-1.78)	
PCB-112											
325.8804	32:22						56	140			
327.8775	32:22						15	37			
PCB-86											RQM
325.8804	32:41	32:41	-3	1.269	37395	4319	56	140	77		M
	Empc Correction				23790	2639	56	140	47		
327.8775	32:42	32:41	-2	1.270	15349	1703	15	37	114	2.44(1.32-1.78)	
PCB-87 (C86)											RQM
325.8804	32:41	32:41	-3	1.269	37395	4319	56	140	77		M
	Empc Correction				23790	2639	56	140	47		
327.8775	32:42	32:41	-2	1.270	15349	1703	15	37	114	2.44(1.32-1.78)	
PCB-97 (C86)											RQM
325.8804	32:41	32:41	-3	1.269	37395	4319	56	140	77		M
	Empc Correction				23790	2639	56	140	47		
327.8775	32:42	32:41	-2	1.270	15349	1703	15	37	114	2.44(1.32-1.78)	
PCB-109 (C86)											RQM
325.8804	32:41	32:41	-3	1.269	37395	4319	56	140	77		M
	Empc Correction				23790	2639	56	140	47		
327.8775	32:42	32:41	-2	1.270	15349	1703	15	37	114	2.44(1.32-1.78)	
PCB-119 (C86)											RQM
325.8804	32:41	32:41	-3	1.269	37395	4319	56	140	77		M
	Empc Correction				23790	2639	56	140	47		
327.8775	32:42	32:41	-2	1.270	15349	1703	15	37	114	2.44(1.32-1.78)	
PCB-125 (C86)											RQM
325.8804	32:41	32:41	-3	1.269	37395	4319	56	140	77		M
	Empc Correction				23790	2639	56	140	47		
327.8775	32:42	32:41	-2	1.270	15349	1703	15	37	114	2.44(1.32-1.78)	
PCB-85											
325.8804	33:30	33:31	2	1.300	2751	824	56	140	15		
327.8775	33:30	33:31	3	1.301	1643	610	15	37	41	1.67(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:30	33:31	2	1.300	2751	824	56	140	15		
327.8775	33:30	33:31	3	1.301	1643	610	15	37	41	1.67(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:30	33:31	2	1.300	2751	824	56	140	15		
327.8775	33:30	33:31	3	1.301	1643	610	15	37	41	1.67(1.32-1.78)	
PCB-110											RQ
325.8804	33:39	33:43	0	1.306	20468	4220	56	140	75		
	Empc Correction				16552	3916	56	140	70		
327.8775	33:38	33:43	-1	1.306	10679	2527	15	37	168	1.92(1.32-1.78)	
PCB-115 (C110)											RQ
325.8804	33:39	33:43	0	1.306	20468	4220	56	140	75		
	Empc Correction				16552	3916	56	140	70		
327.8775	33:38	33:43	-1	1.306	10679	2527	15	37	168	1.92(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-82											RQ
325.8804	33:56	34:01	-2	1.317	3732	572	56	140	10		
	Empc Correction				838	449	56	140	8		
327.8775	33:58	34:01	0	1.319	541	290	15	37	19	6.90(1.32-1.78)	
PCB-111											
325.8804	34:20						56	140			
327.8775	34:20						15	37			
PCB-120											RQ
325.8804	34:45	34:51	-2	1.349	1804	572	56	140	10		
	Empc Correction				418	243	56	140	4		
327.8775	34:46	34:51	-1	1.350	270	157	15	37	10	6.68(1.32-1.78)	
PCB-108											
325.8804	35:57						765	1912			
327.8775	35:57						257	642			
PCB-124 (C108)											
325.8804	35:57						765	1912			
327.8775	35:57						257	642			
PCB-107											
325.8804	36:11						765	1912			
327.8775	36:11						257	642			
PCB-123											
325.8804	36:19						765	1912			
327.8775	36:19						257	642			
PCB-106											
325.8804	36:26						765	1912			
327.8775	36:26						257	642			
PCB-118											
325.8804	36:38	36:35	1	1.001	22261	3855	765	1912	5		
327.8775	36:39	36:35	2	1.001	15065	2924	257	642	11	1.48(1.32-1.78)	
PCB-122											
325.8804	36:59						765	1912			
327.8775	36:59						257	642			
PCB-114											
325.8804	37:09						765	1912			
327.8775	37:09						257	642			
PCB-105											
325.8804	37:49						765	1912			
327.8775	37:49						257	642			
PCB-127											
325.8804	39:16						765	1912			
327.8775	39:16						257	642			
PCB-126											
325.8804	40:54						765	1912			
327.8775	40:54						257	642			
PCB-155L											
371.8817	31:25	32:40	0	0.791	2490090	511103	59	147	8663		
373.8788	31:24	32:40	0	0.791	1948448	400391	117	292	3422	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-153L											
371.8817	38:28	38:28	0	0.901	1153863	235680	2310	5775	102	1.26(1.05-1.43)	
373.8788	38:28	38:28	0	0.901	917295	181242	1688	4220	107		
PCB-138L											
371.8817	39:43	39:42	0		3950902	775913	2310	5775	336	1.30(1.05-1.43)	
373.8788	39:43	39:42	0		3047147	591138	1688	4220	350		
PCB-167L											
371.8817	42:43	44:25	0	1.075	4410706	853753	2310	5775	370	1.29(1.05-1.43)	
373.8788	42:43	44:25	0	1.075	3427702	669748	1688	4220	397		
PCB-156L											
371.8817	43:52	45:38	0	1.105	8461048	1103102	2310	5775	478	1.30(1.05-1.43)	
373.8788	43:53	45:38	0	1.105	6533007	837457	1688	4220	496		
PCB-157L (C156L)											
371.8817	43:52	45:38	0	1.105	8461048	1103102	2310	5775	478	1.30(1.05-1.43)	
373.8788	43:53	45:38	0	1.105	6533007	837457	1688	4220	496		
PCB-169L											
371.8817	47:06	48:59	0	1.186	4110932	770205	2310	5775	333	1.32(1.05-1.43)	
373.8788	47:06	48:59	0	1.186	3118991	576103	1688	4220	341		
PCB-155											
359.8415	31:27	31:25	2	1.001	1055	333	9	22	37	1.45(1.05-1.43)	RQ
	Empc Correction				902	291	9	22	32		
361.8385	31:28	31:25	3	1.002	728	235	3	7	78		
PCB-152											
359.8415	31:37						9	22			
361.8385	31:37						3	7			
PCB-150											
359.8415	31:48						9	22			
361.8385	31:48						3	7			
PCB-136											
359.8415	32:10	32:10	0	1.024	2600	600	9	22	67	2.41(1.05-1.43)	RQ
	Empc Correction				1337	607	9	22	67		
361.8385	32:11	32:10	1	1.025	1079	490	3	7	163		
PCB-145											
359.8415	32:28						9	22			
361.8385	32:28						3	7			
PCB-148											
359.8415	33:58						9	22			
361.8385	33:58						3	7			
PCB-135											
359.8415	34:34	34:36	1	1.101	2386	640	9	22	71	0.62(1.05-1.43)	RQM
361.8385	34:36	34:36	3	1.102	3858	885	3	7	295		
	Empc Correction				1924	516	3	7	172		M
PCB-151 (C135)											
359.8415	34:34	34:36	1	1.101	2386	640	9	22	71	0.62(1.05-1.43)	RQM
361.8385	34:36	34:36	3	1.102	3858	885	3	7	295		
	Empc Correction				1924	516	3	7	172		M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-154											
359.8415	34:49						9	22			
361.8385	34:49						3	7			
PCB-144											
359.8415	35:08						9	22			
361.8385	35:08						3	7			
PCB-147											
359.8415	35:30	35:24	1	1.130	13011	2699	17	42	159		
361.8385	35:29	35:24	0	1.130	12184	1940	18	45	108	1.07(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:30	35:24	1	1.130	13011	2699	17	42	159		
361.8385	35:29	35:24	0	1.130	12184	1940	18	45	108	1.07(1.05-1.43)	
PCB-134											
359.8415	35:45	35:45	-2	1.138	922	240	17	42	14		
361.8385	35:42	35:45	-4	1.137	813	323	18	45	18	1.13(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	-2	1.138	922	240	17	42	14		
361.8385	35:42	35:45	-4	1.137	813	323	18	45	18	1.13(1.05-1.43)	
PCB-139											
359.8415	36:04						17	42			
361.8385	36:04						18	45			
PCB-140 (C139)											
359.8415	36:04						17	42			
361.8385	36:04						18	45			
PCB-131											
359.8415	36:17						17	42			
361.8385	36:17						18	45			
PCB-142											
359.8415	36:26						17	42			
361.8385	36:26						18	45			
PCB-132											
359.8415	36:46	36:45	0	1.170	4418	1038	17	42	61		
361.8385	36:47	36:45	2	1.171	3100	704	18	45	39	1.43(1.05-1.43)	
PCB-133											
359.8415	37:15						17	42			
361.8385	37:15						18	45			
PCB-165											
359.8415	37:38						17	42			
361.8385	37:38						18	45			
PCB-146											
359.8415	37:52	37:52	0	0.886	2458	663	17	42	39		M
361.8385	37:52	37:52	0	0.886	2038	489	18	45	27	1.21(1.05-1.43)	M
PCB-161											
359.8415	38:00						17	42			
361.8385	38:00						18	45			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-153											
359.8415	38:31	38:31	0	0.902	10405	1989	17	42	117		
361.8385	38:29	38:31	-2	0.901	9045	1832	18	45	102	1.15(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:31	38:31	0	0.902	10405	1989	17	42	117		
361.8385	38:29	38:31	-2	0.901	9045	1832	18	45	102	1.15(1.05-1.43)	
PCB-141											
359.8415	38:40	38:41	-1	0.905	2563	515	17	42	30		RQ
361.8385	38:41	38:41	0	0.906	2648	643	18	45	36	0.97(1.05-1.43)	
Empc Correction					2066	415	18	45	23		
PCB-130											
359.8415	39:07						17	42			
361.8385	39:07						18	45			
PCB-137											
359.8415	39:19						17	42			
361.8385	39:19						18	45			
PCB-164											
359.8415	39:25	39:27	-1	0.923	1312	276	17	42	16		RQ
Empc Correction					592	271	17	42	16		
361.8385	39:29	39:27	2	0.924	478	219	18	45	12	2.74(1.05-1.43)	
PCB-129											
359.8415	39:45	39:44	0	0.931	10683	2402	17	42	141		
361.8385	39:44	39:44	-1	0.930	7970	1556	18	45	86	1.34(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:45	39:44	0	0.931	10683	2402	17	42	141		
361.8385	39:44	39:44	-1	0.930	7970	1556	18	45	86	1.34(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:45	39:44	0	0.931	10683	2402	17	42	141		
361.8385	39:44	39:44	-1	0.930	7970	1556	18	45	86	1.34(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:45	39:44	0	0.931	10683	2402	17	42	141		
361.8385	39:44	39:44	-1	0.930	7970	1556	18	45	86	1.34(1.05-1.43)	
PCB-158											
359.8415	40:10	40:10	3	0.940	828	264	17	42	16		RQM
361.8385	40:06	40:10	0	0.939	1772	444	18	45	25	0.47(1.05-1.43)	M
Empc Correction					667	212	18	45	12		
PCB-128											
359.8415	41:00	41:01	2	0.960	1093	276	17	42	16		RQM
361.8385	41:01	41:01	3	0.960	2448	436	18	45	24	0.45(1.05-1.43)	M
Empc Correction					881	222	18	45	12		
PCB-166 (C128)											
359.8415	41:00	41:01	2	0.960	1093	276	17	42	16		RQM
361.8385	41:01	41:01	3	0.960	2448	436	18	45	24	0.45(1.05-1.43)	M
Empc Correction					881	222	18	45	12		
PCB-159											
359.8415	41:58						17	42			RQU
361.8385	41:58						18	45			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-162											
359.8415	42:17	42:14	2	0.990	1071	368	17	42	22		
361.8385	42:18	42:14	3	0.990	823	226	18	45	13	1.30(1.05-1.43)	
PCB-167											
359.8415	42:43						17	42			
361.8385	42:43						18	45			
PCB-156											
359.8415	43:56	43:52	2	1.001	1729	503	17	42	30		M
361.8385	43:52	43:52	-2	1.000	1518	439	18	45	24	1.14(1.05-1.43)	M
PCB-157 (C156)											
359.8415	43:56	43:52	2	1.001	1729	503	17	42	30		M
361.8385	43:52	43:52	-2	1.000	1518	439	18	45	24	1.14(1.05-1.43)	M
PCB-169											
359.8415	47:06	47:04	0	1.000	371	207	17	42	12		RQ
361.8385	47:05	47:04	-1	1.000	807	216	18	45	12	0.46(1.05-1.43)	
Empc Correction					299	166	18	45	9		
PCB-188L											
405.8428	37:07	37:38	0	0.820	2876824	584561	94	235	6219		
407.8398	37:07	37:38	0	0.820	2661758	539918	60	150	8999	1.08(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:44	0	0.888	2263047	457371	94	235	4866		
407.8398	40:10	40:44	0	0.888	2120969	420516	60	150	7009	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:14	0		2634094	510081	94	235	5426		
407.8398	45:15	45:14	0		2409986	472757	60	150	7879	1.09(0.89-1.21)	
PCB-170L											
405.8428	46:30	47:09	0	1.028	1843987	345410	94	235	3675		
407.8398	46:30	47:09	0	1.028	1715468	323640	60	150	5394	1.07(0.89-1.21)	
PCB-189L											
405.8428	49:36	50:19	0	1.096	5673464	1064797	1662	4155	641		
407.8398	49:36	50:19	0	1.096	5251954	986492	1083	2707	911	1.08(0.89-1.21)	
PCB-188											
393.8025	37:08						14	35			
395.7995	37:08						1	2			
PCB-179											
393.8025	37:30	37:28	1	1.011	1234	505	14	35	36		RQ
395.7995	37:28	37:28	-1	1.010	1647	422	1	2	422	0.75(0.89-1.21)	
Empc Correction					1175	480	1	2	480		
PCB-184											
393.8025	37:57	37:58	-2	1.023	333	122	14	35	9		RQ
Empc Correction					149	80	14	35	6		
395.7995	37:58	37:58	-1	1.023	142	77	1	2	77	2.35(0.89-1.21)	
PCB-176											
393.8025	38:24	38:21	2	1.035	593	192	14	35	14		RQ
Empc Correction					368	164	14	35	12		
395.7995	38:22	38:21	0	1.034	351	157	1	2	157	1.69(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-186											
393.8025	38:49						14	35			
395.7995	38:49						1	2			
PCB-178											
393.8025	40:10	40:10	-1	1.082	921	353	14	35	25		RQ
	Empc Correction				176	77	14	35	6		
395.7995	40:11	40:10	0	1.083	168	74	1	2	74	5.48(0.89-1.21)	
PCB-175											
393.8025	40:49						14	35			
395.7995	40:49						1	2			
PCB-187											
393.8025	41:05	41:04	0	1.107	2374	563	14	35	40		RQ
395.7995	41:06	41:04	0	1.107	2733	919	1	2	919	0.87(0.89-1.21)	
	Empc Correction				2260	536	1	2	536		
PCB-182											
393.8025	41:17						14	35			
395.7995	41:17						1	2			
PCB-183											
393.8025	41:43	41:41	1	1.124	2254	553	14	35	40		RQM
395.7995	41:41	41:41	0	1.123	3780	910	1	2	910	0.60(0.89-1.21)	M
	Empc Correction				2146	526	1	2	526		
PCB-185 (C183)											
393.8025	41:43	41:41	1	1.124	2254	553	14	35	40		RQM
395.7995	41:41	41:41	0	1.123	3780	910	1	2	910	0.60(0.89-1.21)	M
	Empc Correction				2146	526	1	2	526		
PCB-174											
393.8025	41:56						14	35			RQU
395.7995	41:56						1	2			
PCB-177											
393.8025	42:23						14	35			
395.7995	42:23						1	2			
PCB-181											
393.8025	42:46						14	35			
395.7995	42:46						1	2			
PCB-171											
393.8025	42:59						14	35			RQU
395.7995	42:59						1	2			
PCB-173 (C171)											
393.8025	42:59						14	35			RQU
395.7995	42:59						1	2			
PCB-172											
393.8025	44:37						14	35			
395.7995	44:37						1	2			
PCB-192											
393.8025	44:54						14	35			
395.7995	44:54						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-180											RQM
393.8025	45:15	45:15	1	0.912	3113	679	14	35	49		M
	Empc Correction				2063	643	14	35	46		
395.7995	45:17	45:15	3	0.913	1965	613	1	2	613	1.58(0.89-1.21)	
PCB-193 (C180)											RQM
393.8025	45:15	45:15	1	0.912	3113	679	14	35	49		M
	Empc Correction				2063	643	14	35	46		
395.7995	45:17	45:15	3	0.913	1965	613	1	2	613	1.58(0.89-1.21)	
PCB-191											
393.8025	45:37						14	35			
395.7995	45:37						1	2			
PCB-170											Ma
393.8025	46:34	46:34	3	0.939	791	222	14	35	16		M
395.7995	46:31	46:34	0	0.938	681	187	1	2	187	1.16(0.89-1.21)	a
PCB-190											RQM
393.8025	47:02	47:05	0	0.948	798	348	14	35	25		
	Empc Correction				614	198	14	35	14		
395.7995	47:05	47:05	3	0.949	585	189	1	2	189	1.36(0.89-1.21)	M
PCB-189											
393.8025	49:37						94	235			
395.7995	49:37						39	97			
PCB-202L											
439.8038	42:29	42:29	0	0.822	1963082	386273	66	165	5853		
441.8008	42:28	42:29	0	0.821	2125441	412605	40	100	10315	0.92(0.76-1.02)	
PCB-194L											
439.8038	51:43	51:43	0		3707937	704837	198	495	3560		
441.8008	51:43	51:43	0		4043223	740334	191	477	3876	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:10	52:11	0	1.009	3879528	739872	198	495	3737		
441.8008	52:10	52:11	0	1.009	4219232	809441	191	477	4238	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29						10	25			
429.7606	42:29						9	22			
PCB-201											RQ
427.7635	43:26	43:25	1	1.022	270	133	10	25	13		
429.7606	43:27	43:25	2	1.023	378	109	9	22	12	0.71(0.76-1.02)	
	Empc Correction				303	149	9	22	17		
PCB-204											
427.7635	44:05						10	25			
429.7606	44:05						9	22			
PCB-197											
427.7635	44:19						10	25			
429.7606	44:19						9	22			
PCB-200											
427.7635	44:27						10	25			
429.7606	44:27						9	22			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-198											RQ
427.7635	47:16	47:11	4	1.113	808	180	10	25	18		
	Empc Correction				599	275	10	25	28		
429.7606	47:14	47:11	1	1.112	674	310	9	22	34	1.20(0.76-1.02)	
PCB-199 (C198)											RQ
427.7635	47:16	47:11	4	1.113	808	180	10	25	18		
	Empc Correction				599	275	10	25	28		
429.7606	47:14	47:11	1	1.112	674	310	9	22	34	1.20(0.76-1.02)	
PCB-196											
427.7635	47:53	47:51	0	0.918	1003	244	10	25	24		
429.7606	47:54	47:51	1	0.918	1079	349	9	22	39	0.93(0.76-1.02)	
PCB-203											
427.7635	48:04						10	25			
429.7606	48:04						9	22			
PCB-195											
427.7635	49:23						34	85			
429.7606	49:23						9	22			
PCB-194											M
427.7635	51:42	51:42	-2	0.991	794	258	34	85	8		M
429.7606	51:44	51:42	0	0.991	922	264	9	22	29	0.86(0.76-1.02)	
PCB-205											RQM
427.7635	52:10	52:10	-3	1.000	543	167	34	85	5		M
	Empc Correction				308	175	34	85	5		
429.7606	52:09	52:10	-4	1.000	347	197	9	22	22	1.56(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:08	0	0.950	2655837	506990	400	1000	1267		
475.7619	49:08	49:08	0	0.950	3287144	622975	565	1412	1103	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:56	53:56	0	1.043	1895111	350826	400	1000	877		
475.7619	53:56	53:56	0	1.043	2320856	435025	565	1412	770	0.82(0.65-0.89)	
PCB-208											
461.7246	49:09						42	105			
463.7216	49:09						419	1047			
PCB-207											
461.7246	50:05						42	105			
463.7216	50:05						419	1047			
PCB-206											
461.7246	53:56						42	105			
463.7216	53:56						419	1047			
PCB-209L											
507.7258	55:33	55:33	0	1.074	1738457	301699	80	200	3771		
509.7229	55:33	55:33	0	1.074	2405771	427784	48	120	8912	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:35						7	17			
497.6826	55:35						11	27			

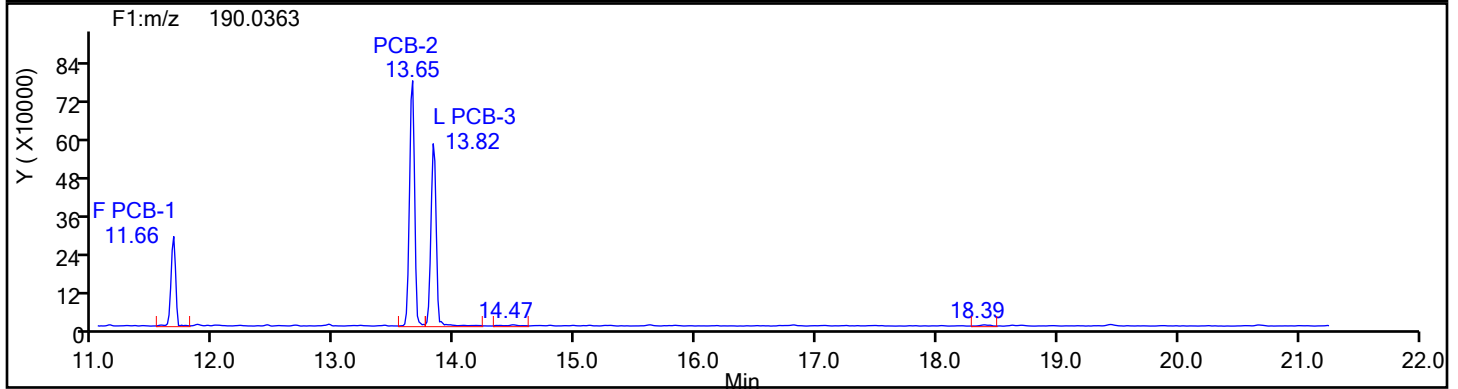
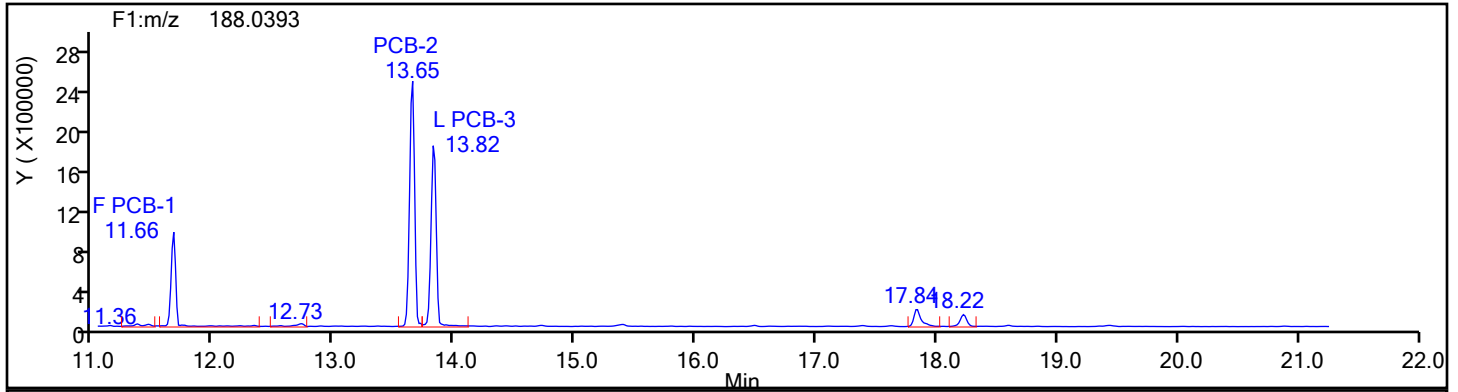
### Processing Flags

Q - EMPC-Estimated Max. Possible Conc.

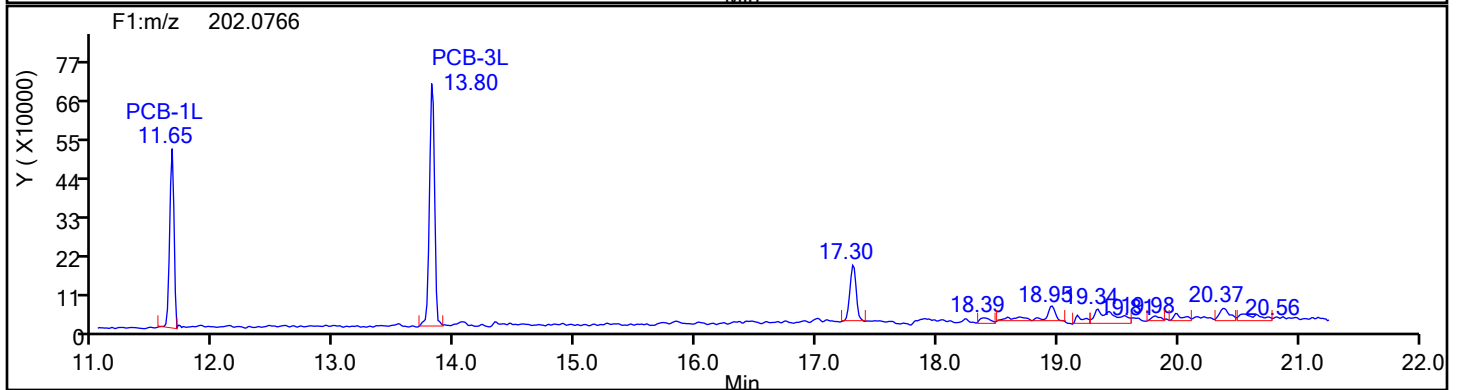
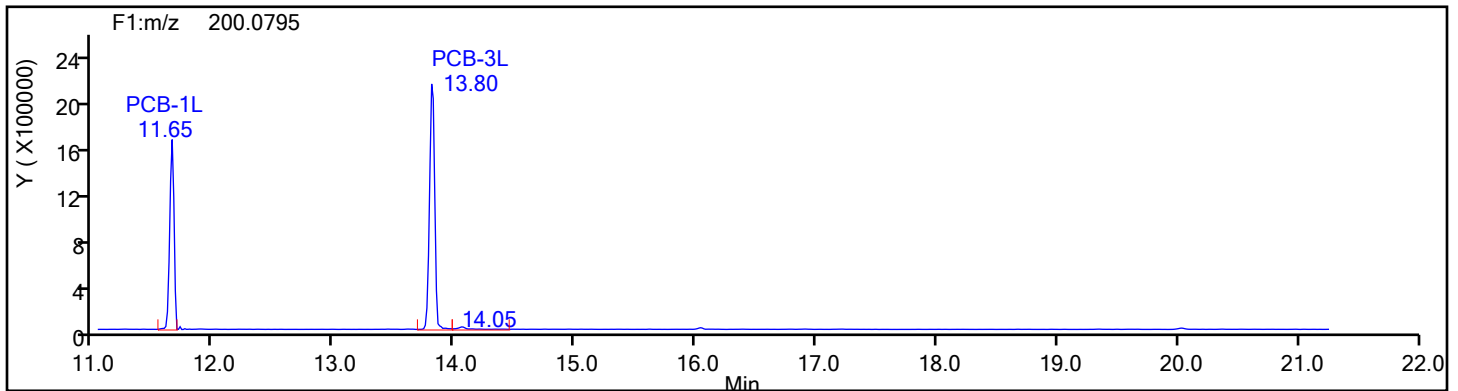
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## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

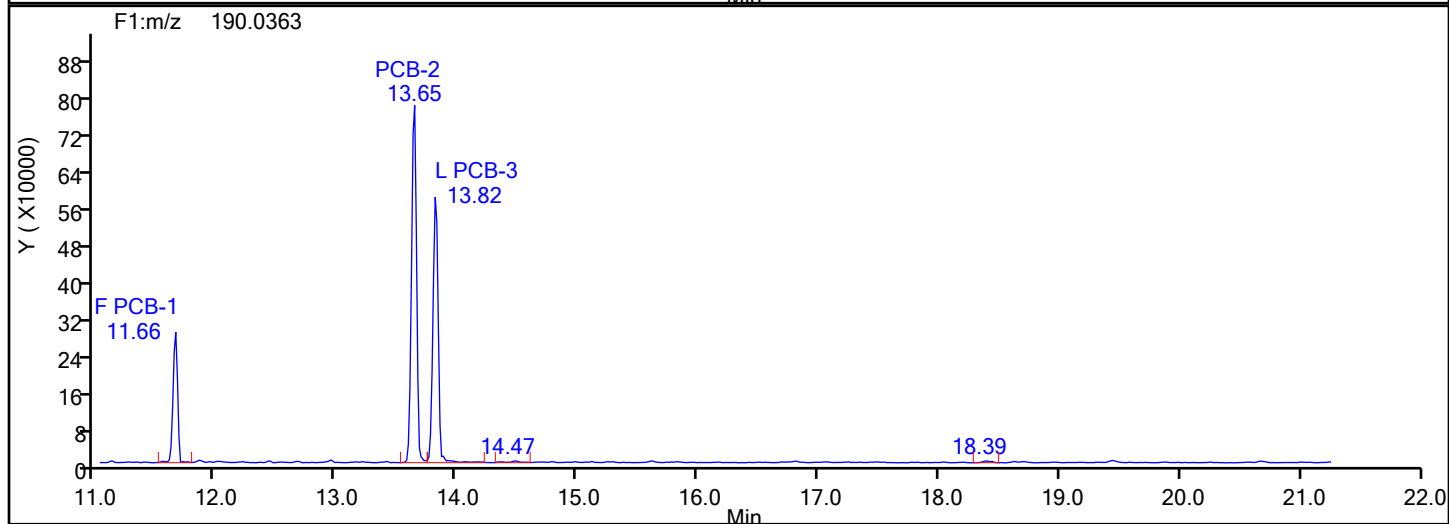
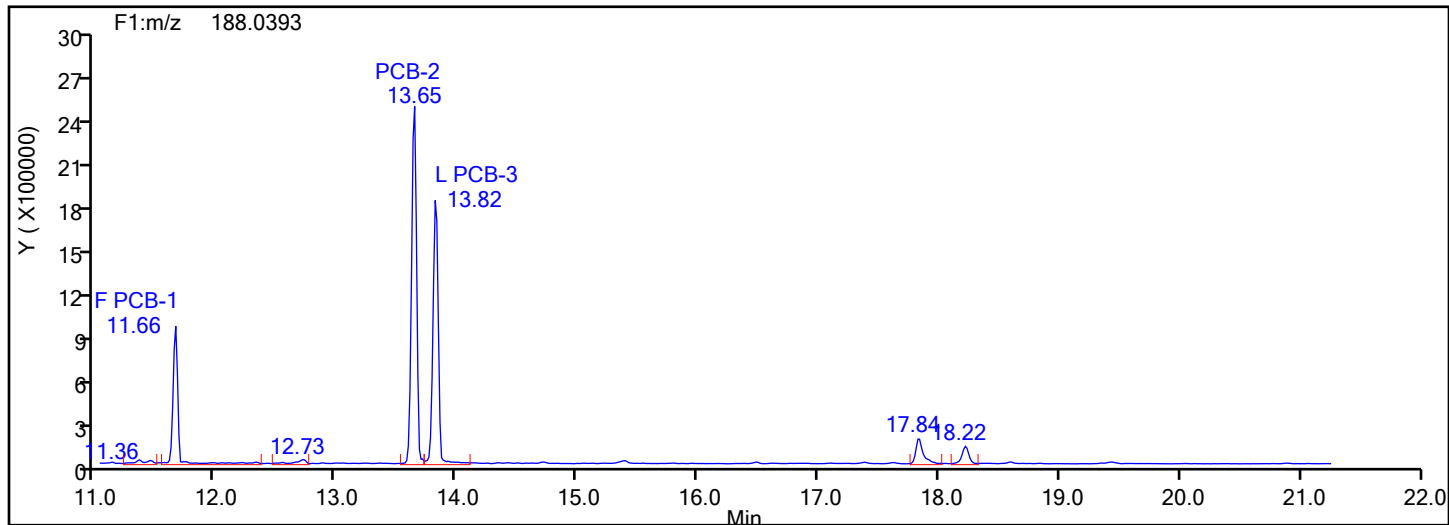


## MoPCB F1 Standards

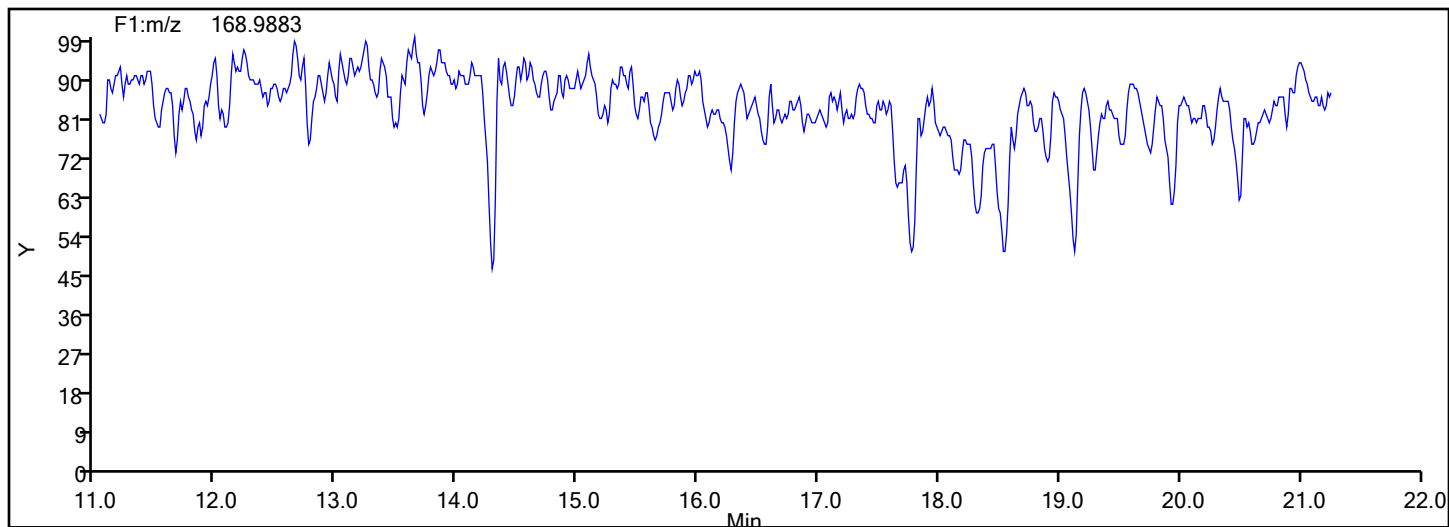


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

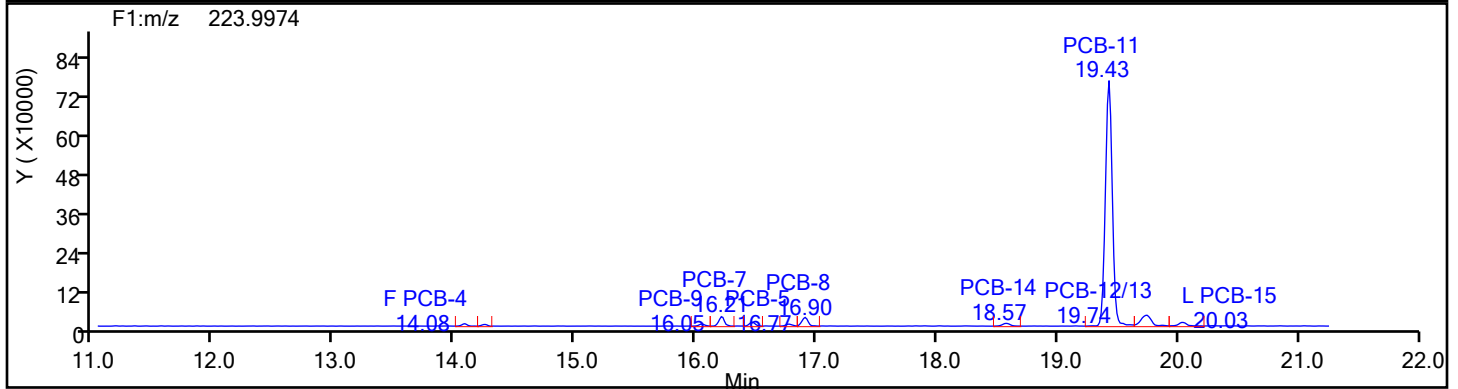
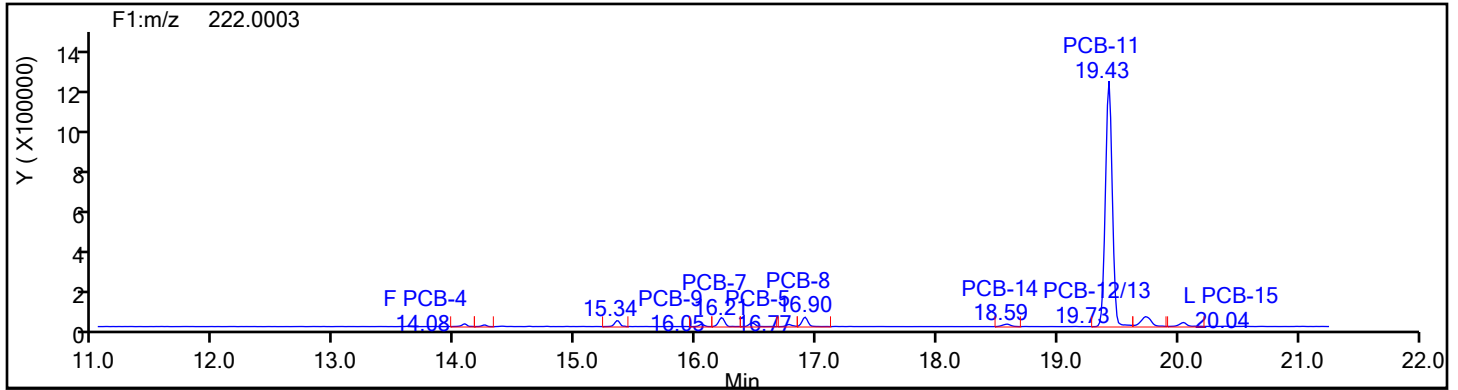


## MoPCB F1 Lock Mass

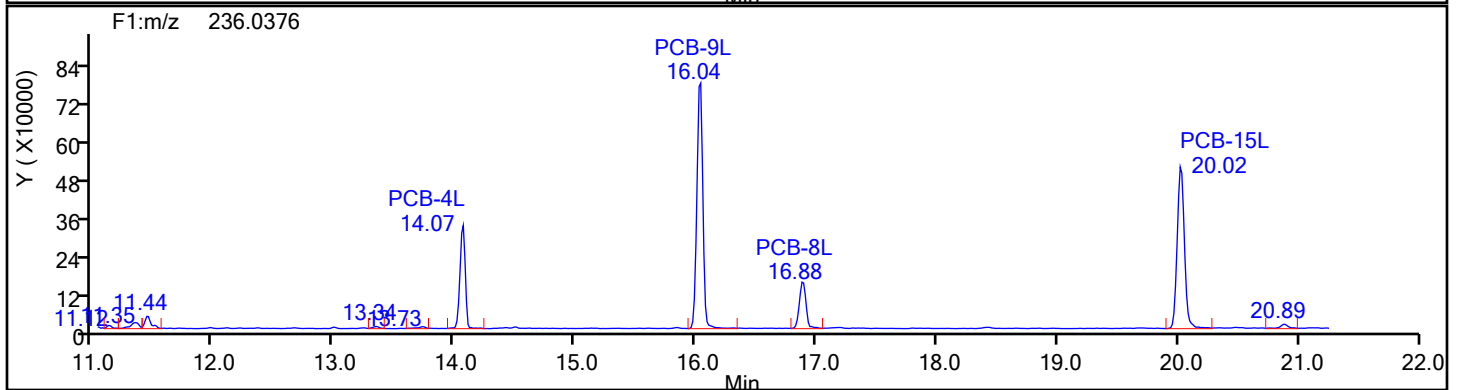
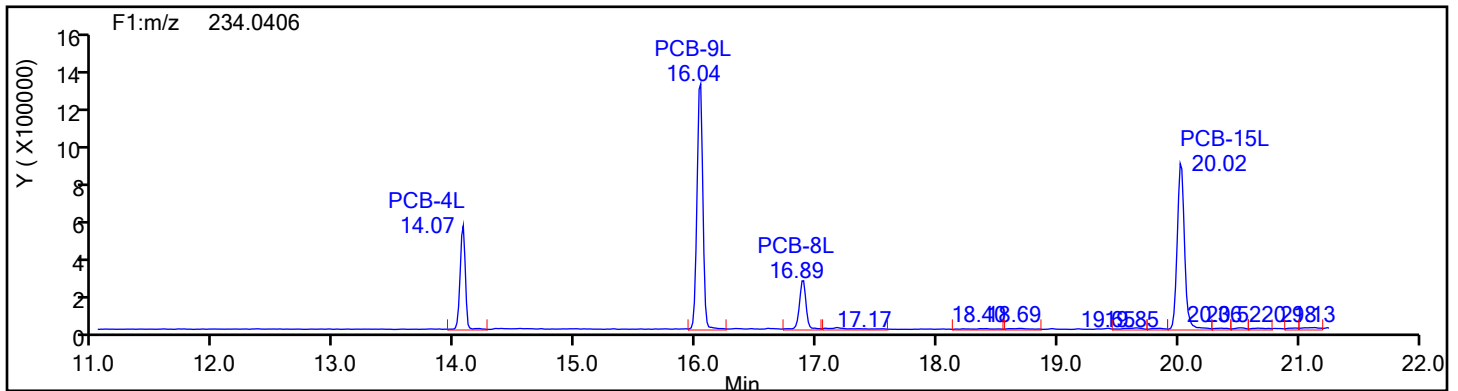


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



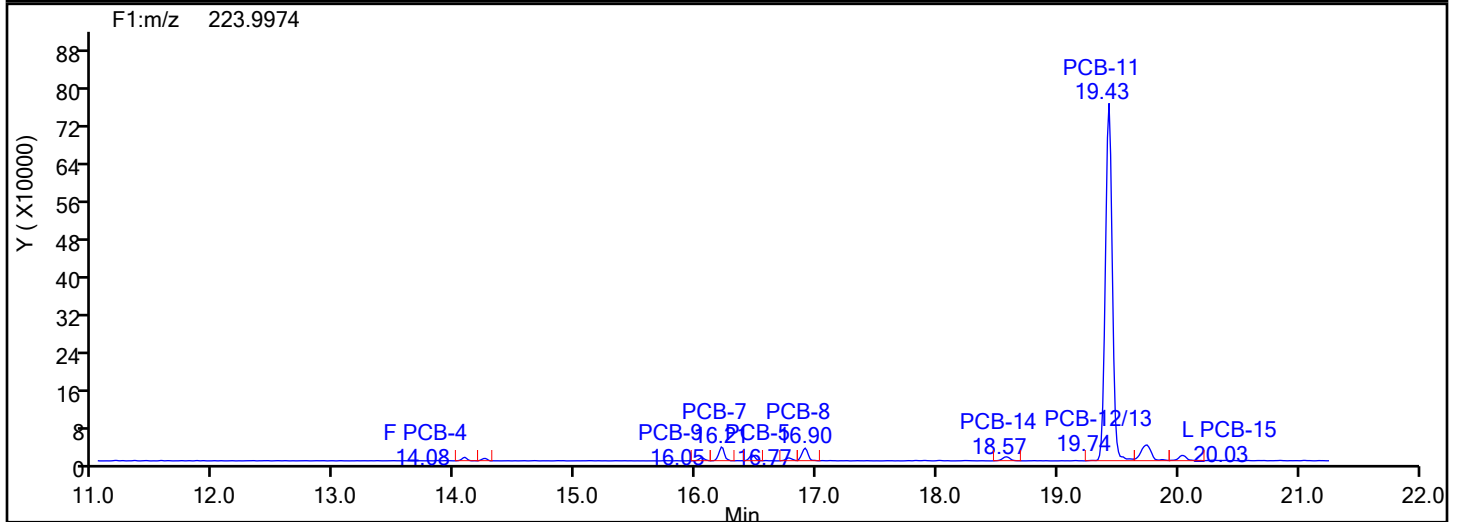
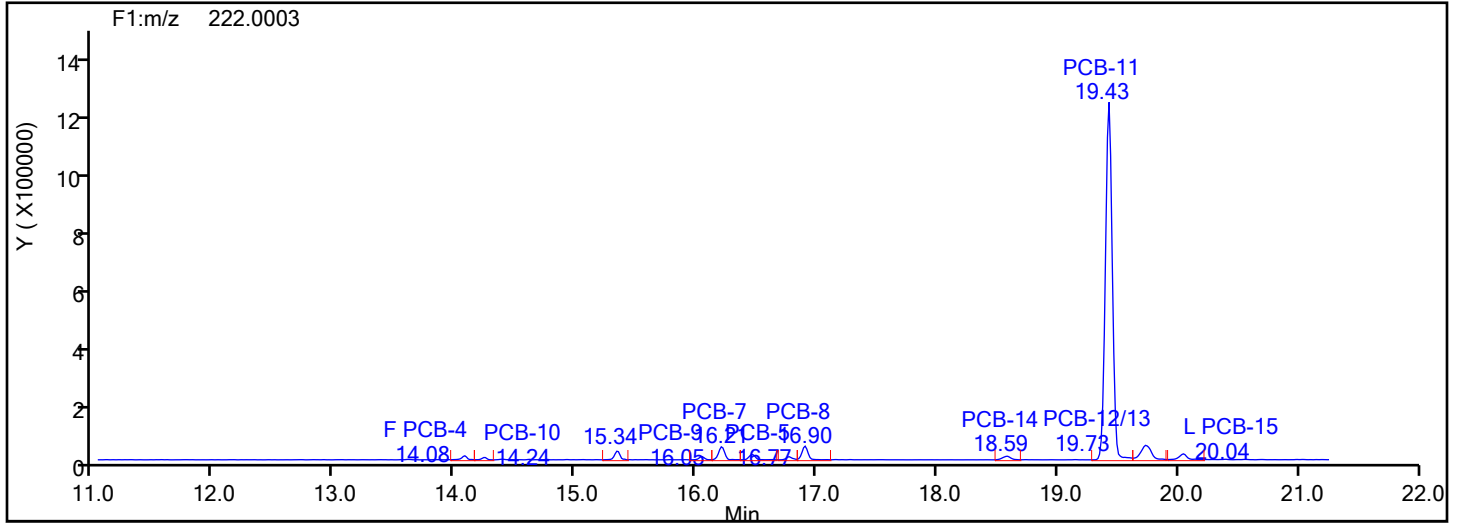
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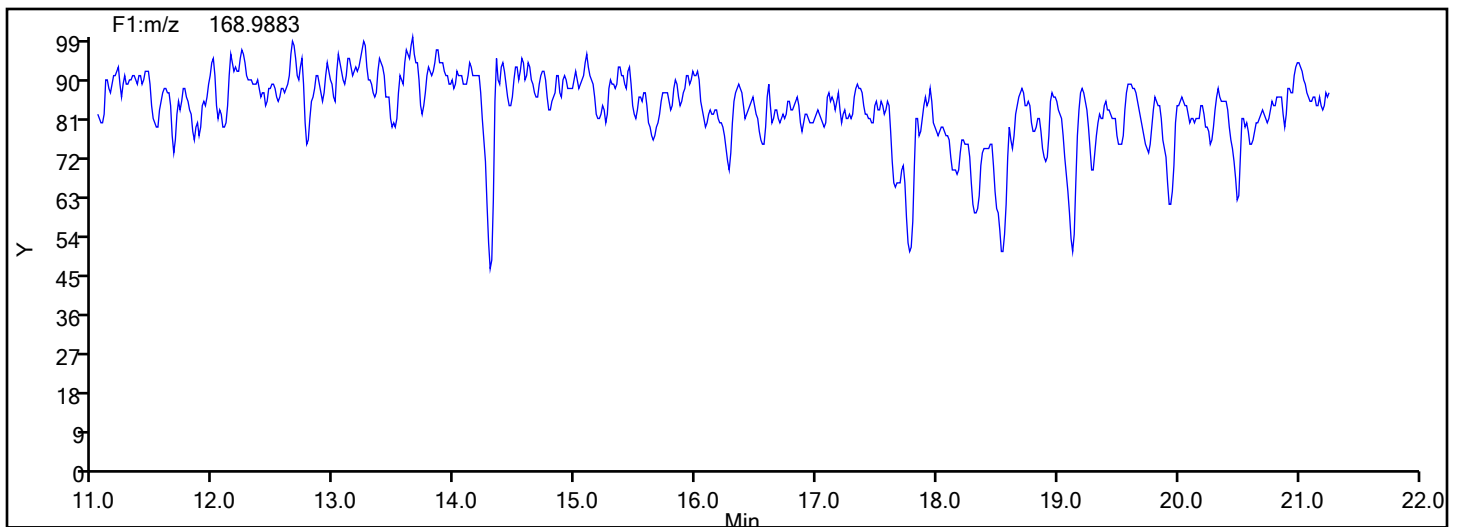


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1

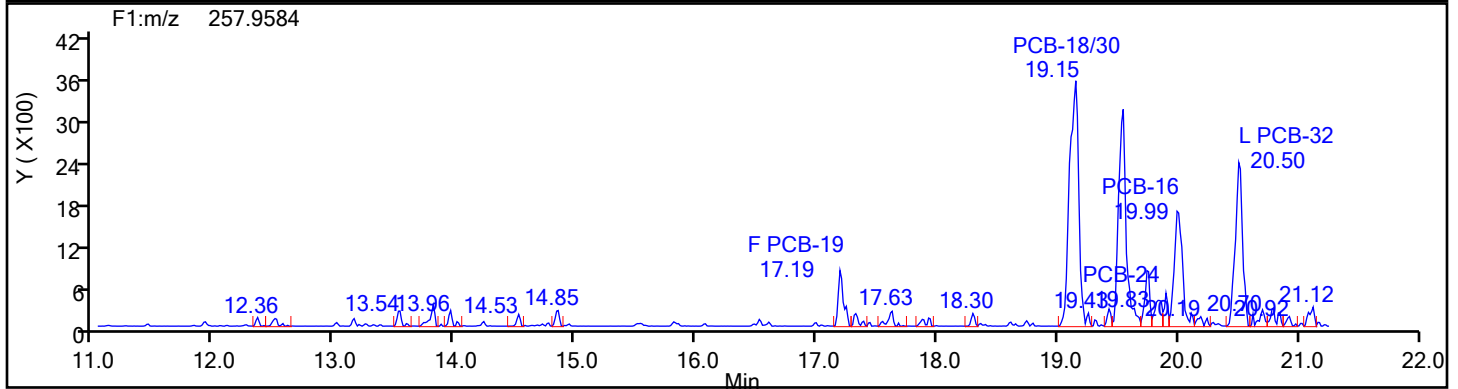
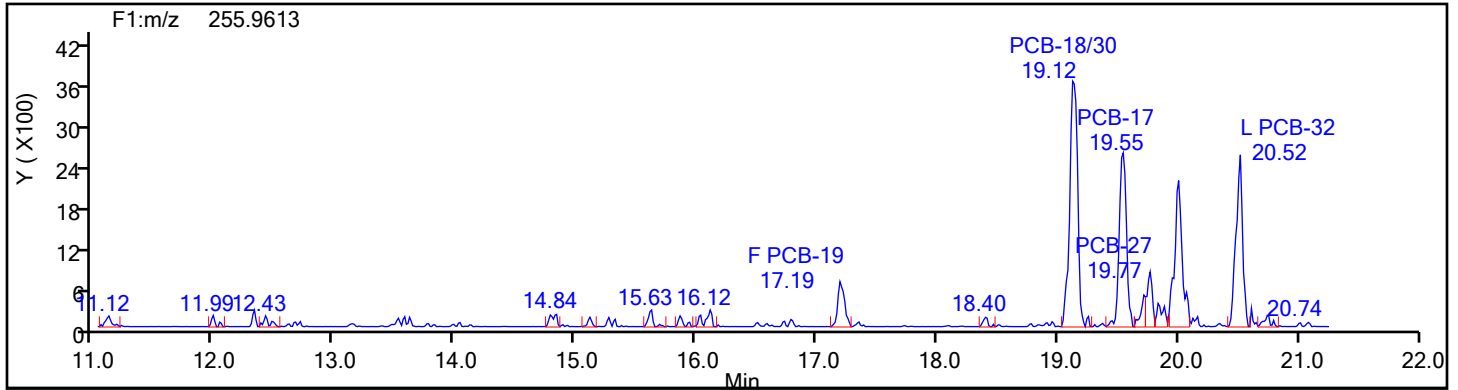


## DiPCB F1 Lock Mass

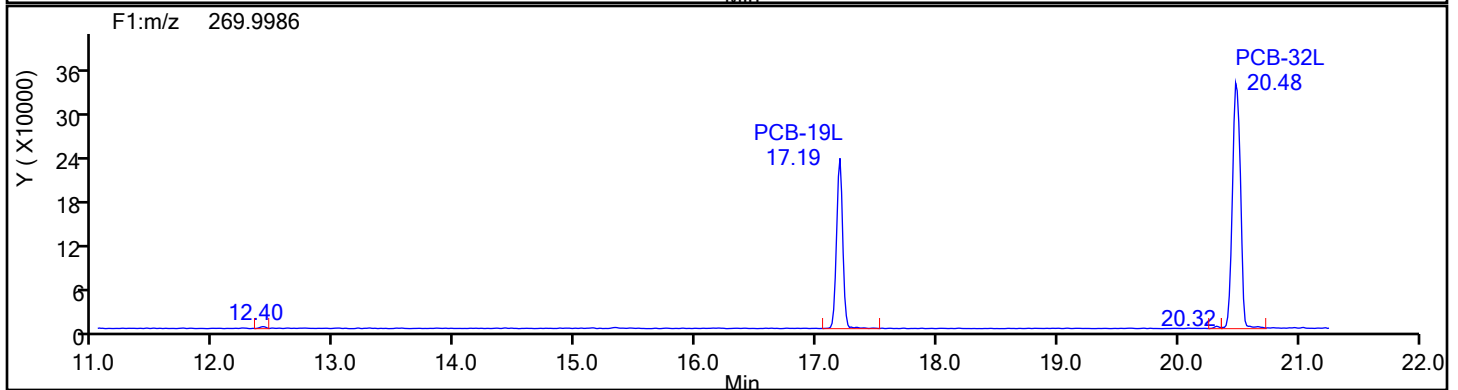
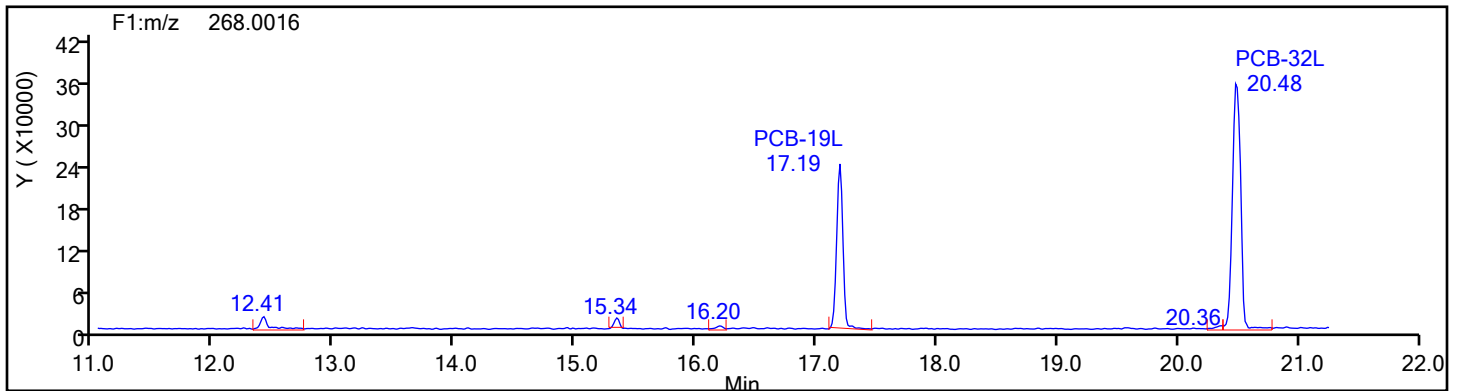


## Eurofins Knoxville

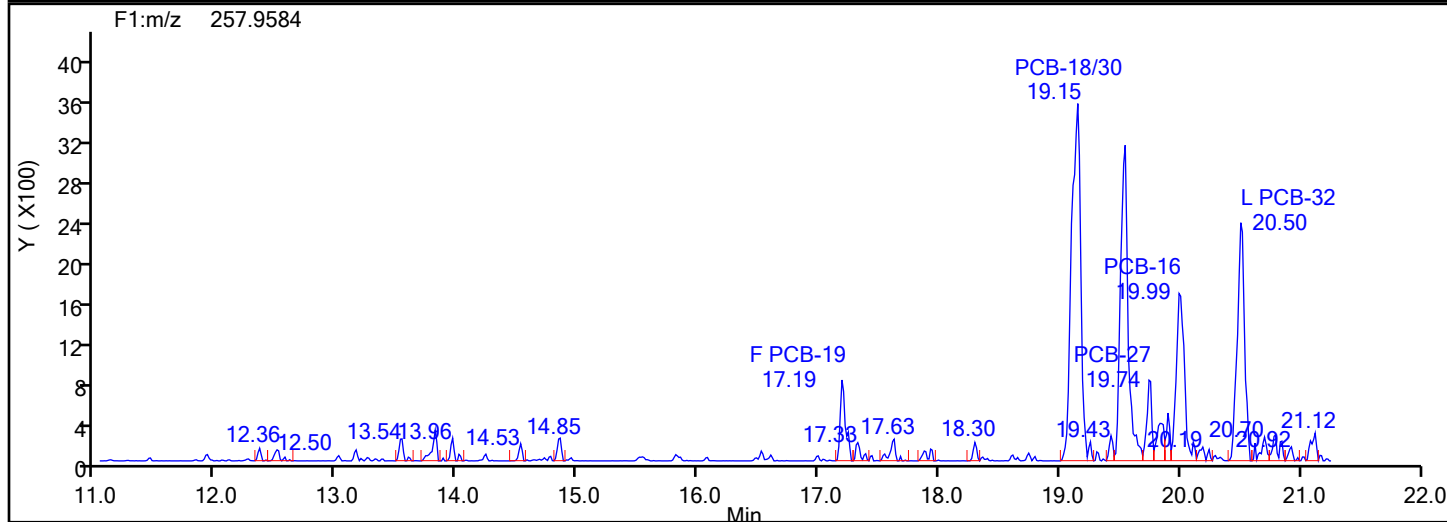
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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-1-c.d		
Injection Date:	28-Jun-2024 04:00:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 - EPN 4-1/IN-701-RUN 1-COMBINED		
Worklist#:	88205	Sample Line#:	9
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TriPCB F1			



## Eurofins Knoxville

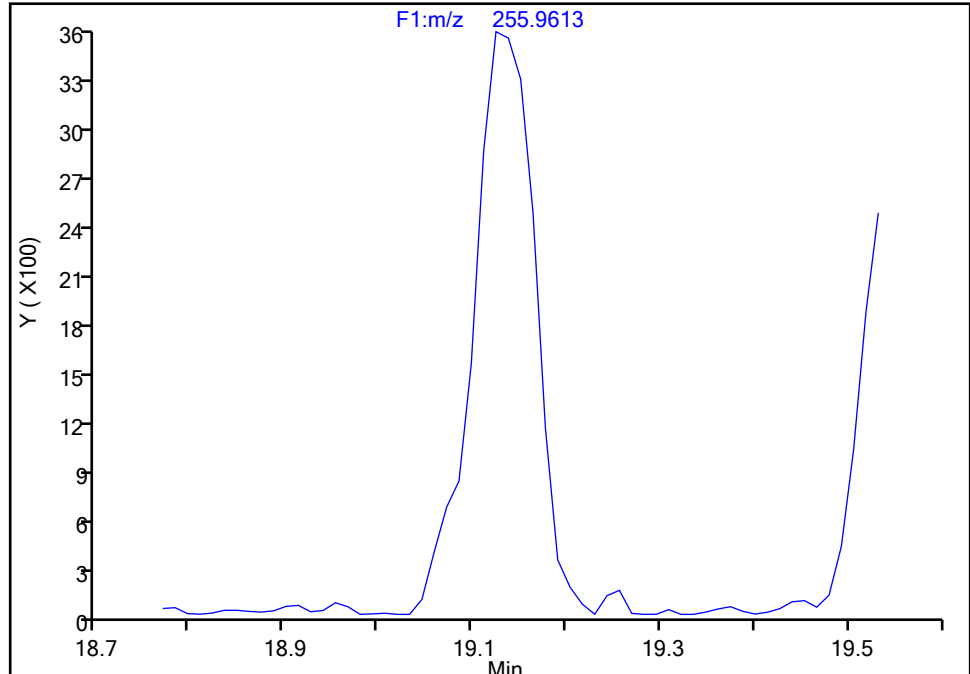
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Injection Date: 28-Jun-2024 04:00:00 Instrument ID: D2D  
Lims ID: 140-36940-A-1-C Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

**PCB-18/30, CAS: STL01798**

Signal: 1

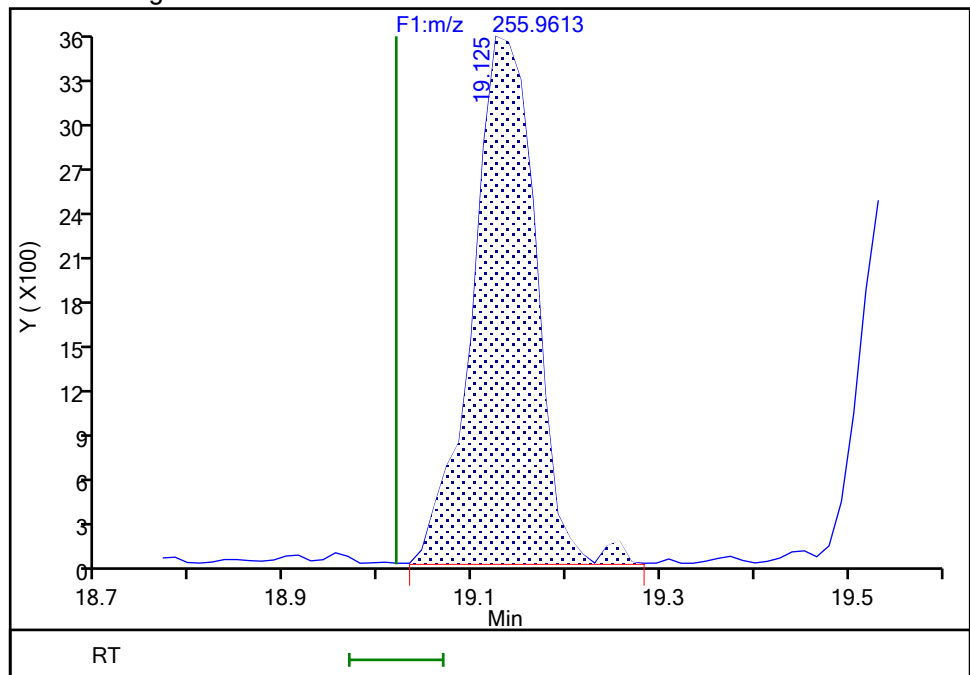
Not Detected  
Expected RT: 19.02

## Processing Integration Results



RT: 19.12  
Area: 16664  
Amount: 1.200299  
Amount Units: pg/ul

## Manual Integration Results



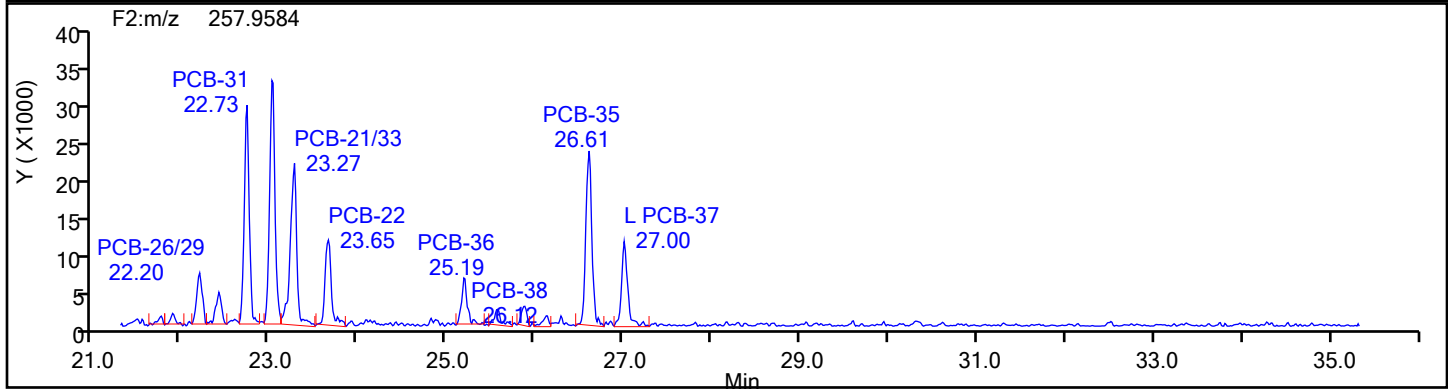
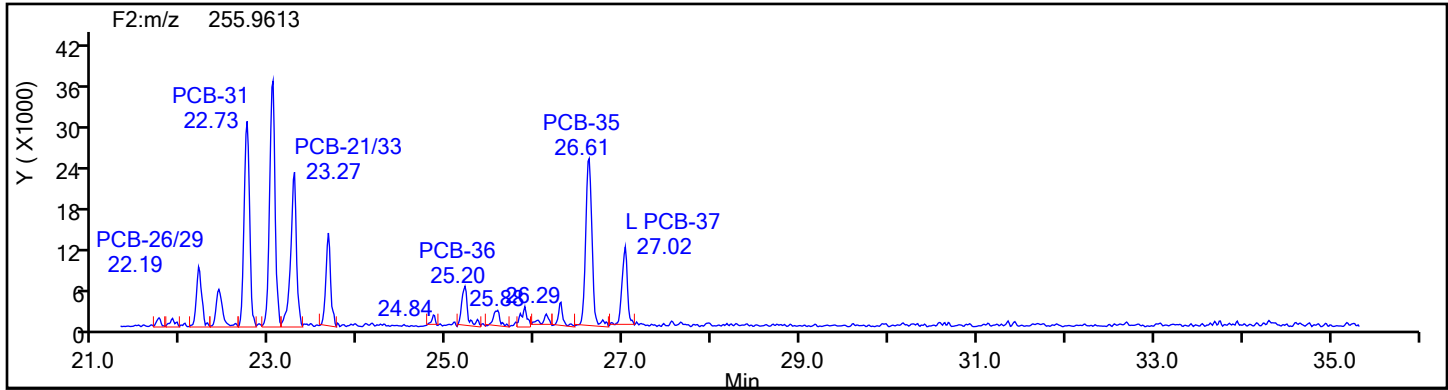
Reviewer: P0IK, 28-Jun-2024 11:46:21 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

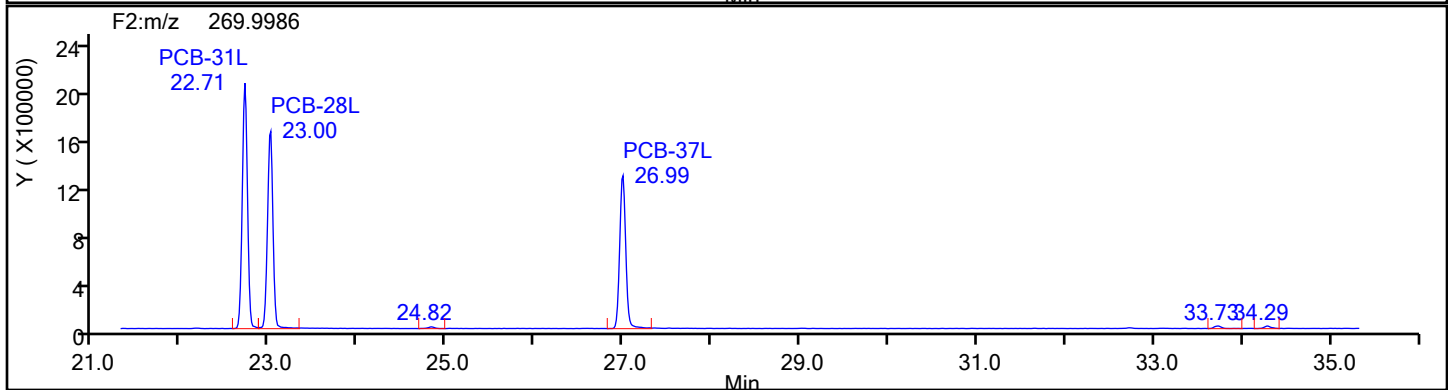
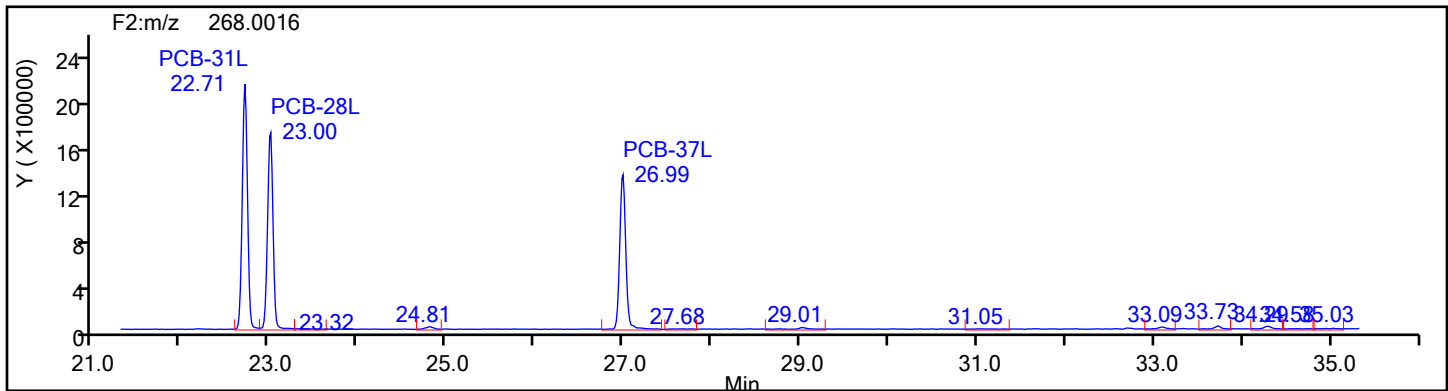
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

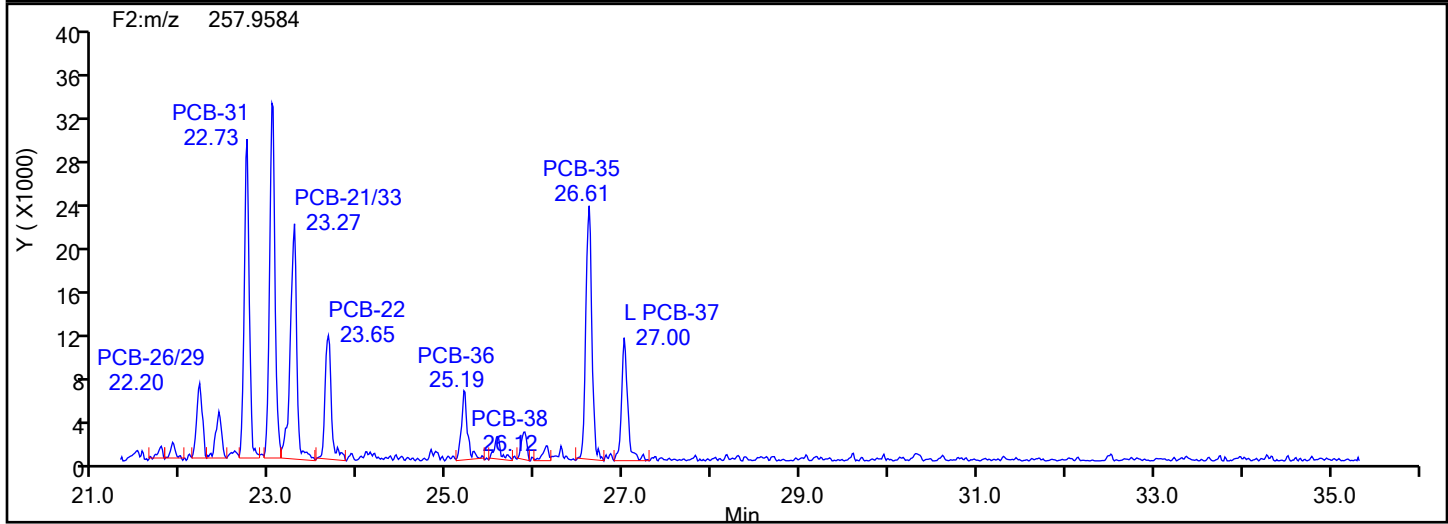
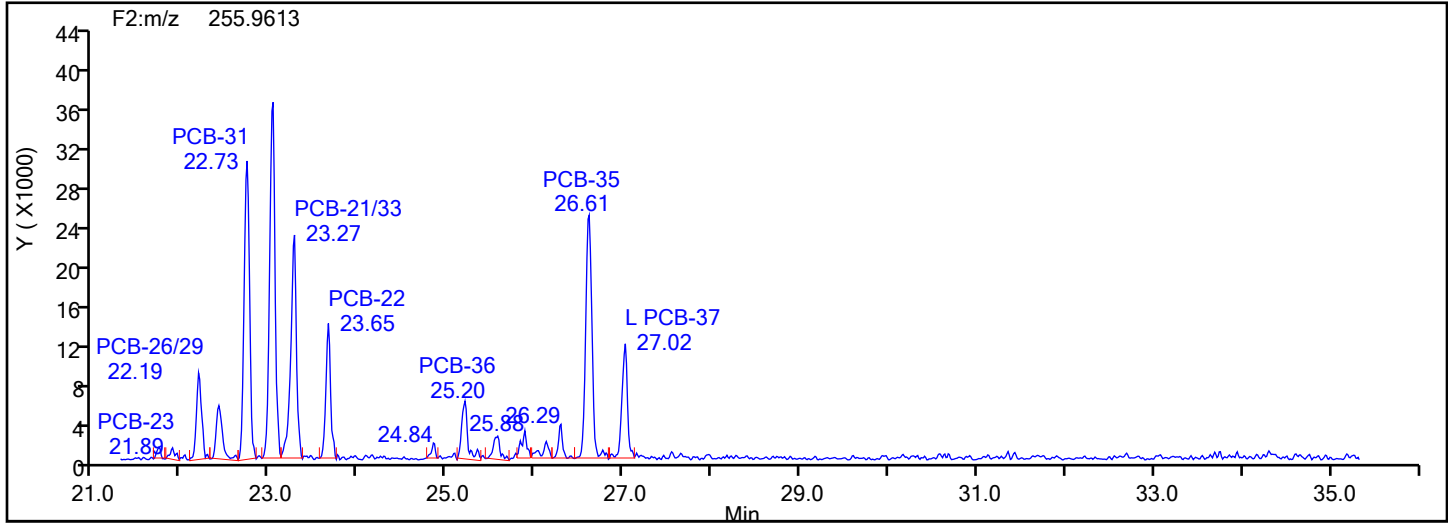


## TriPCB F2 Standards

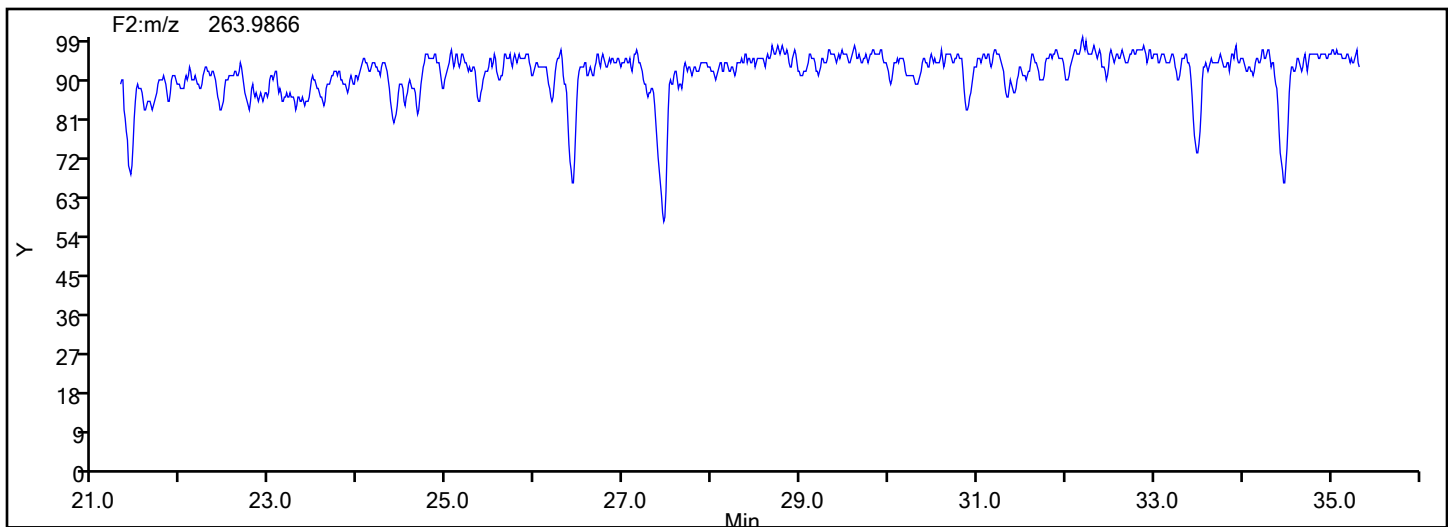


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

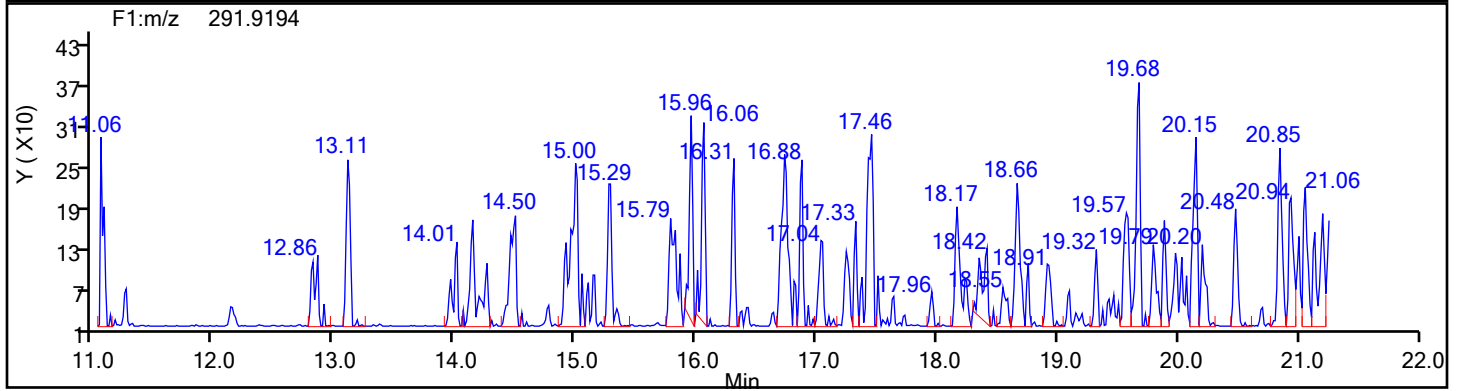
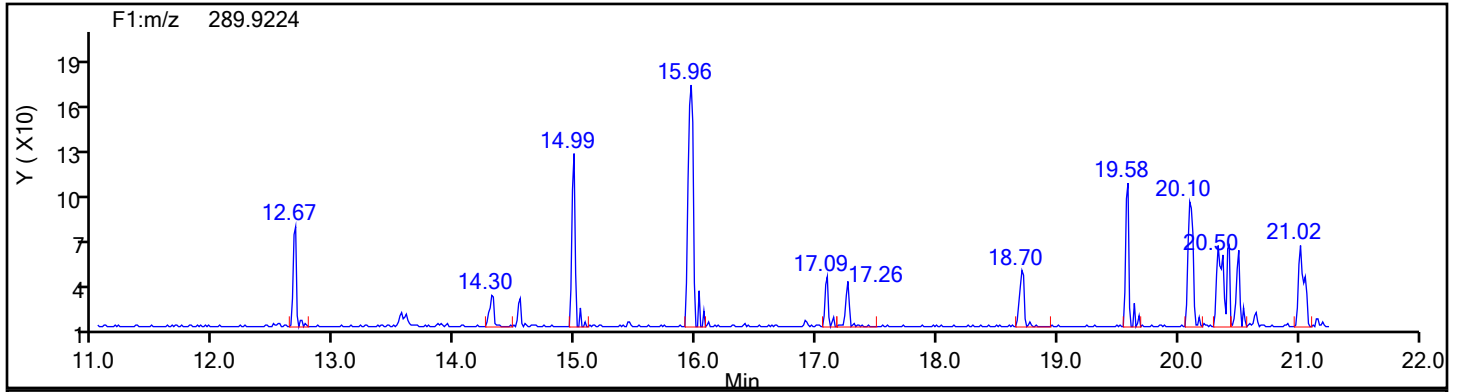


## TriPCB F2 Lock Mass

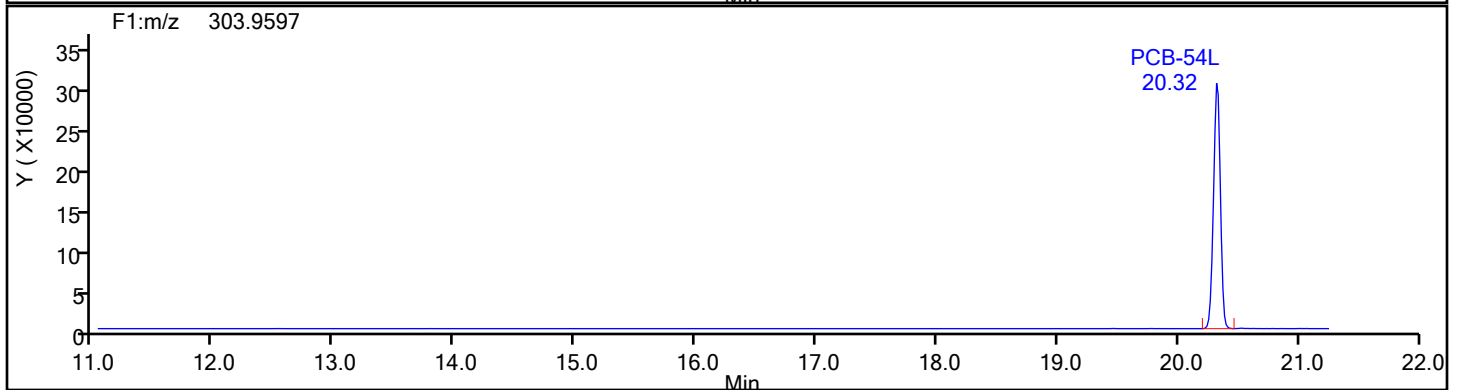
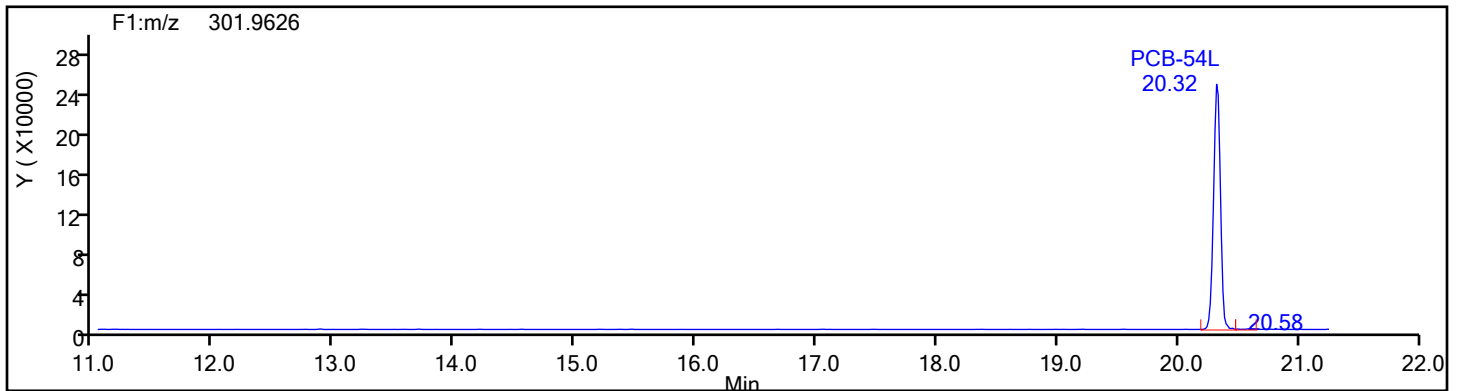


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

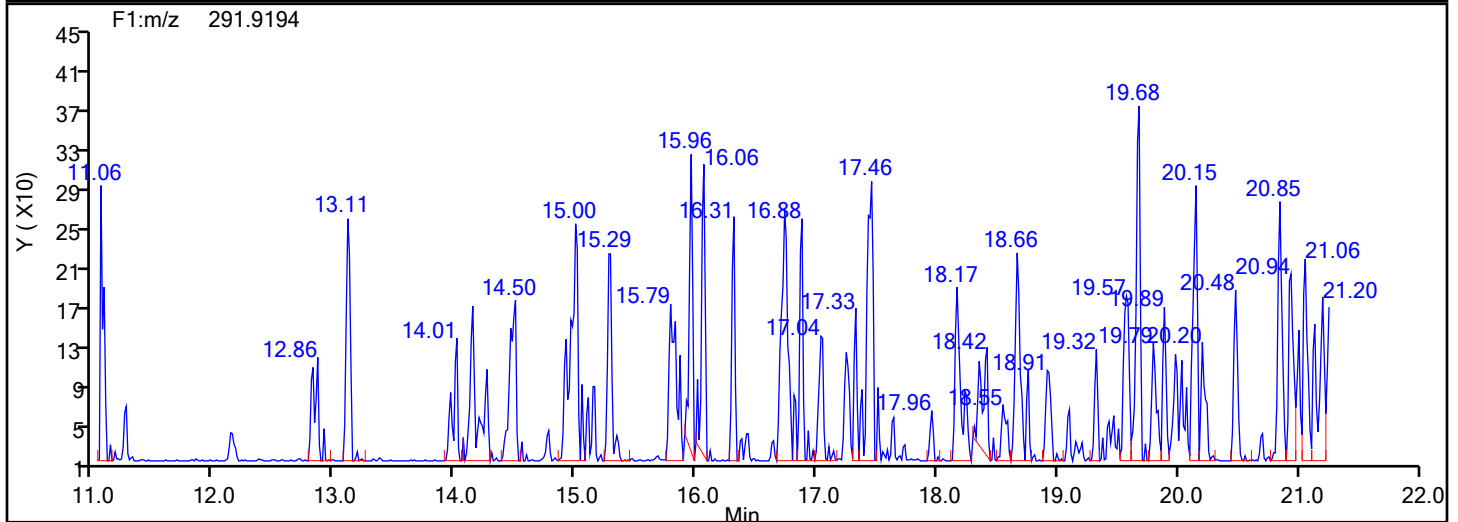
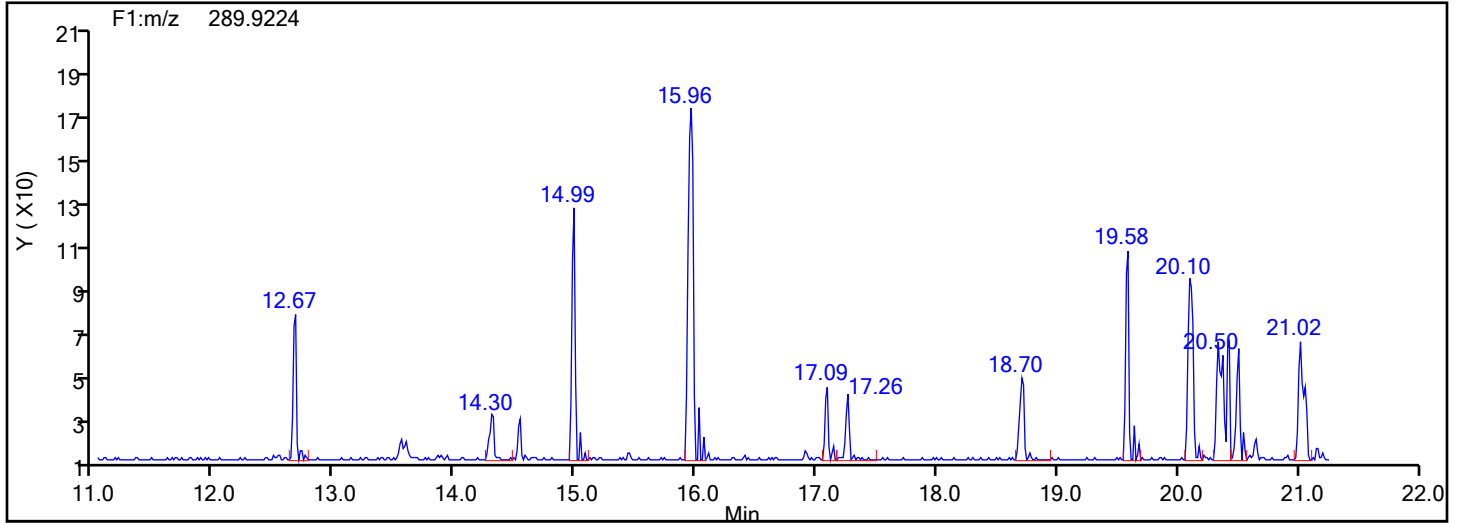


## TePCB F1 Standards

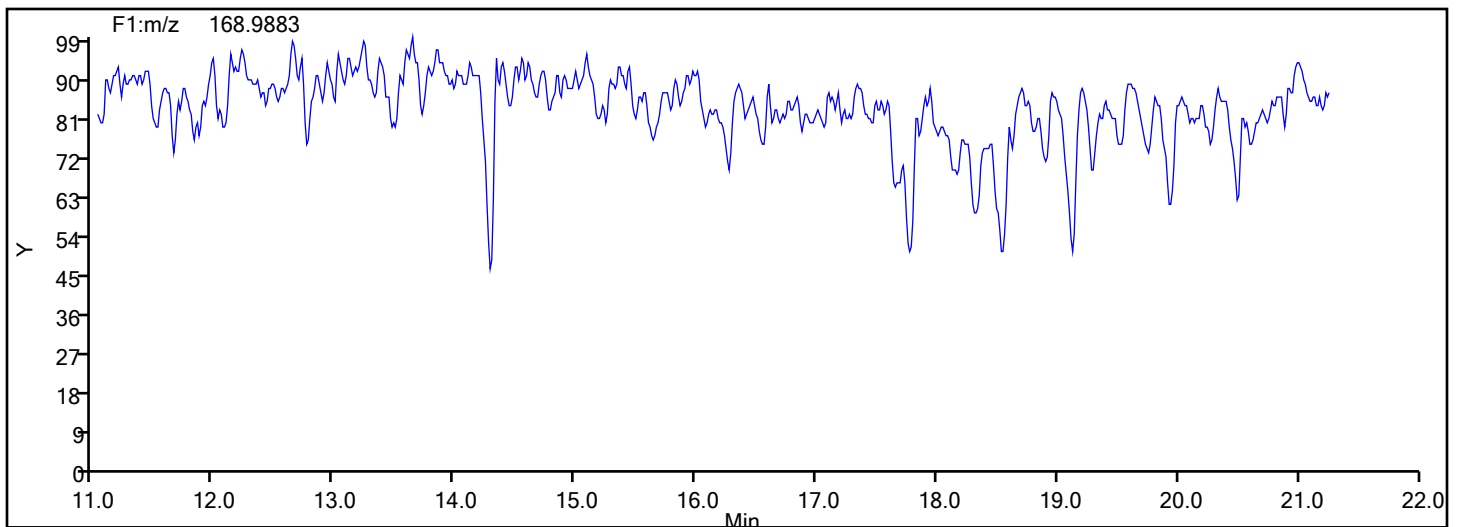


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1



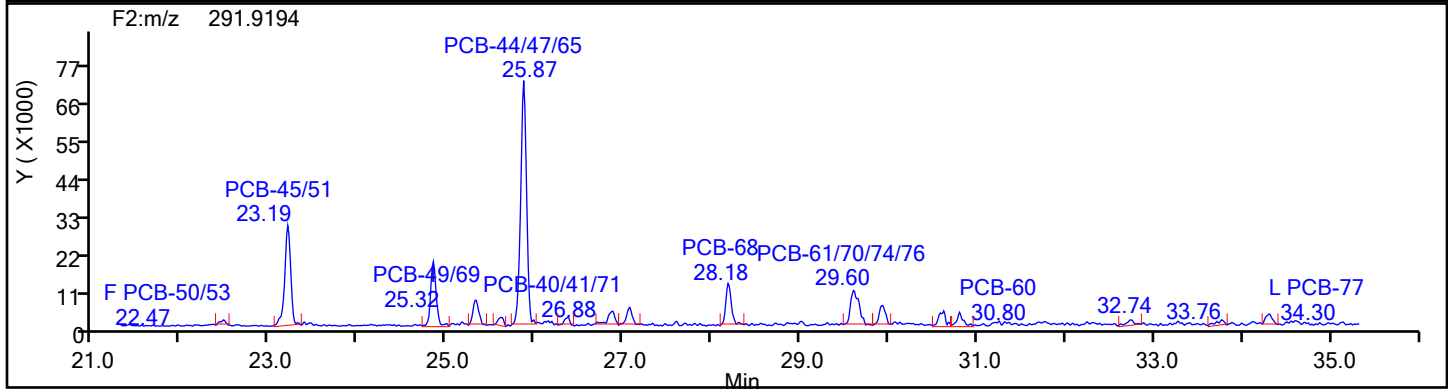
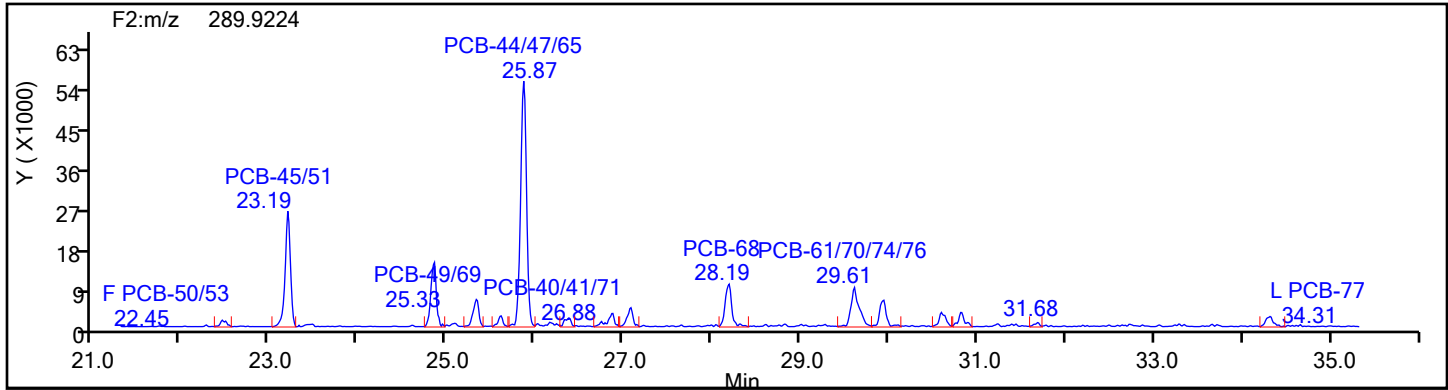
## TePCB F1 Lock Mass



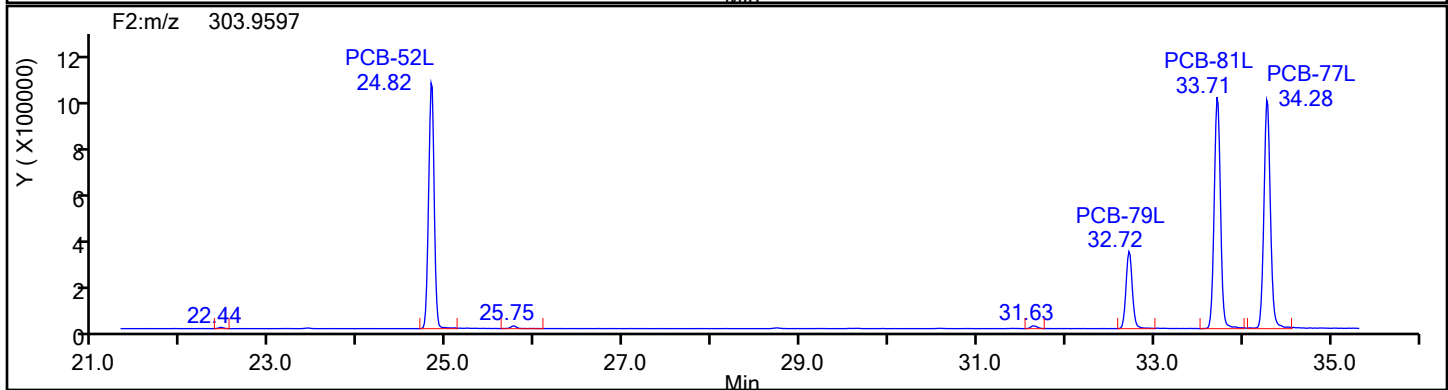
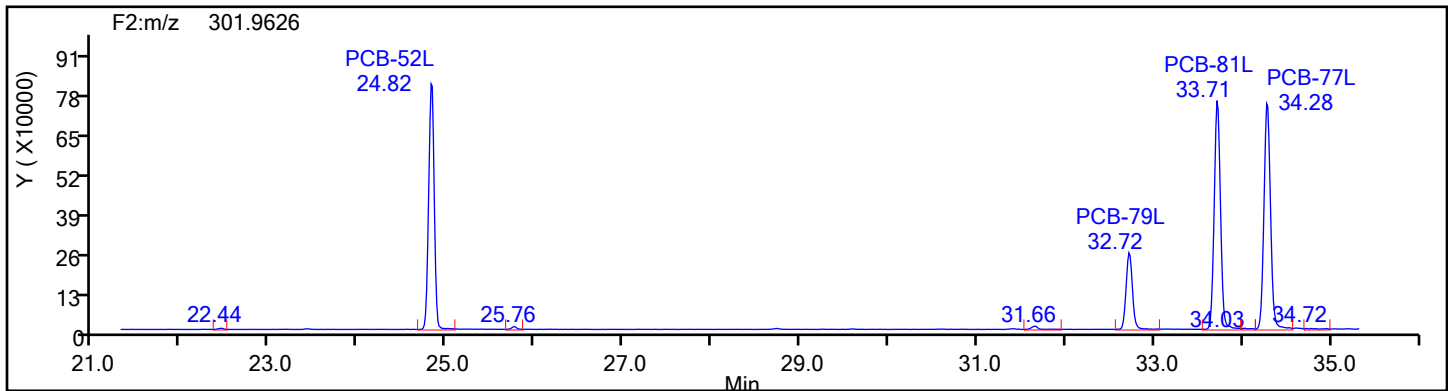


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

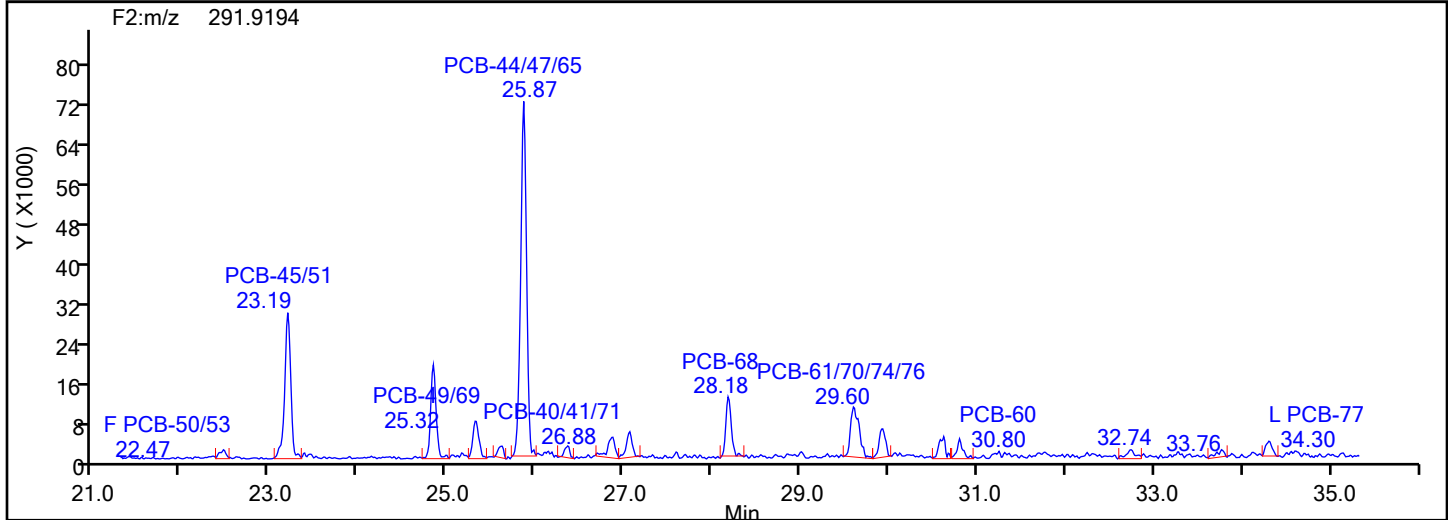
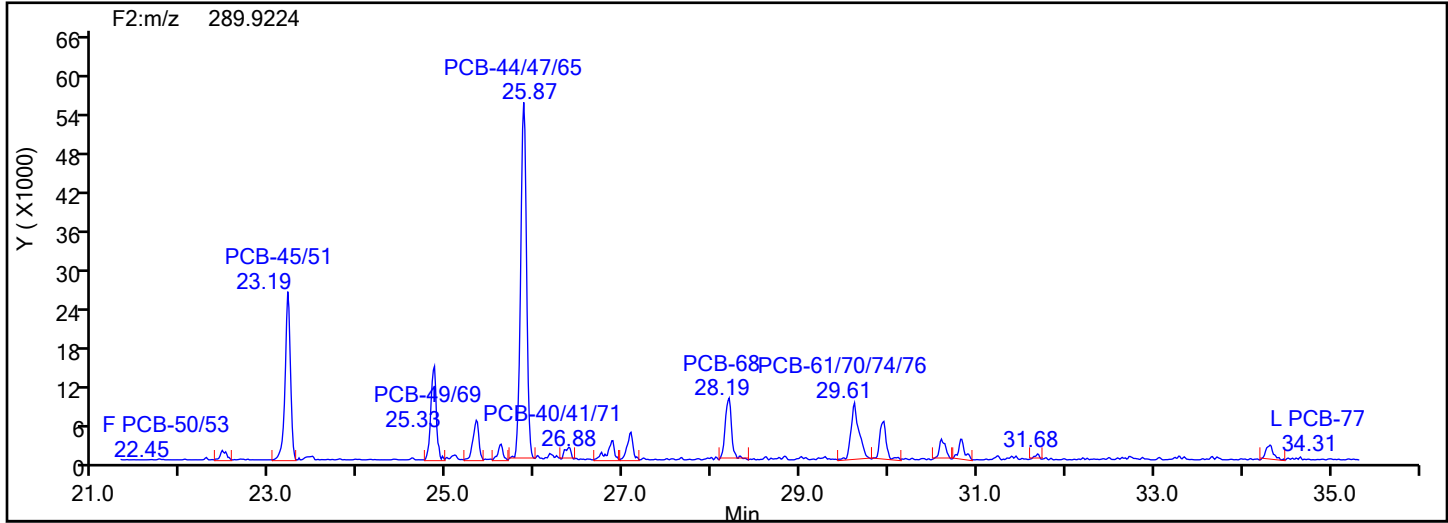


## TePCB F2 Standards

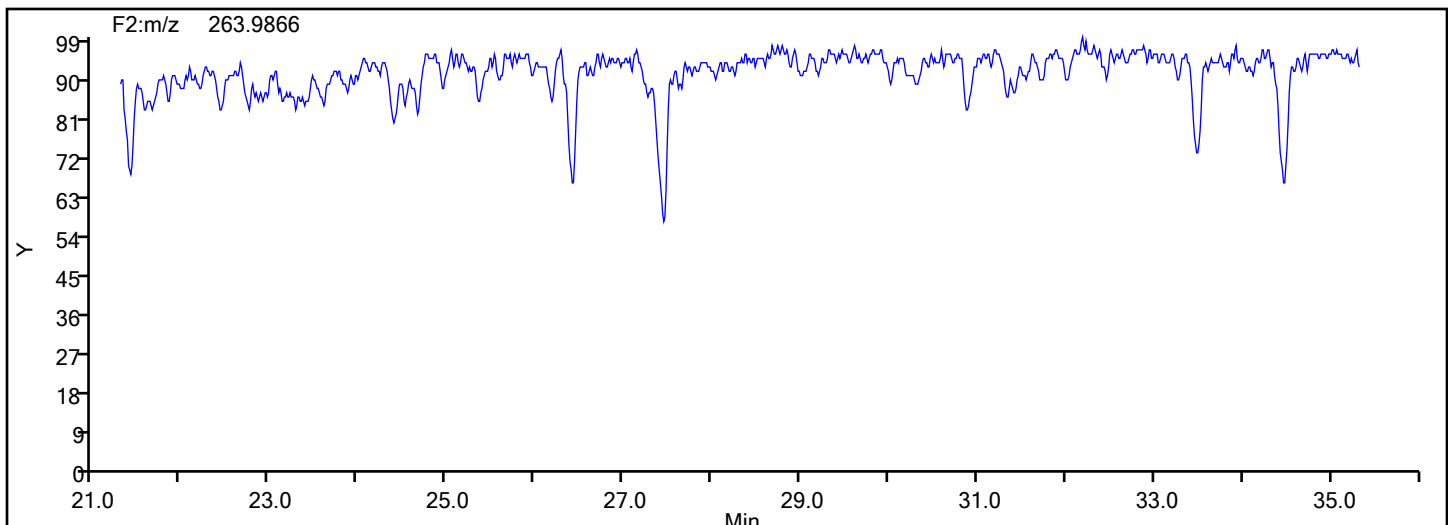


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

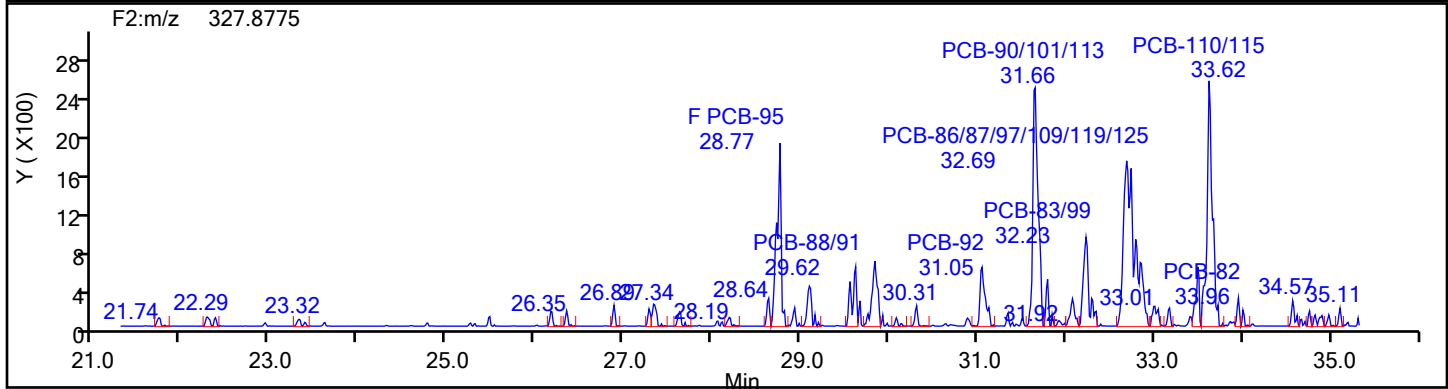
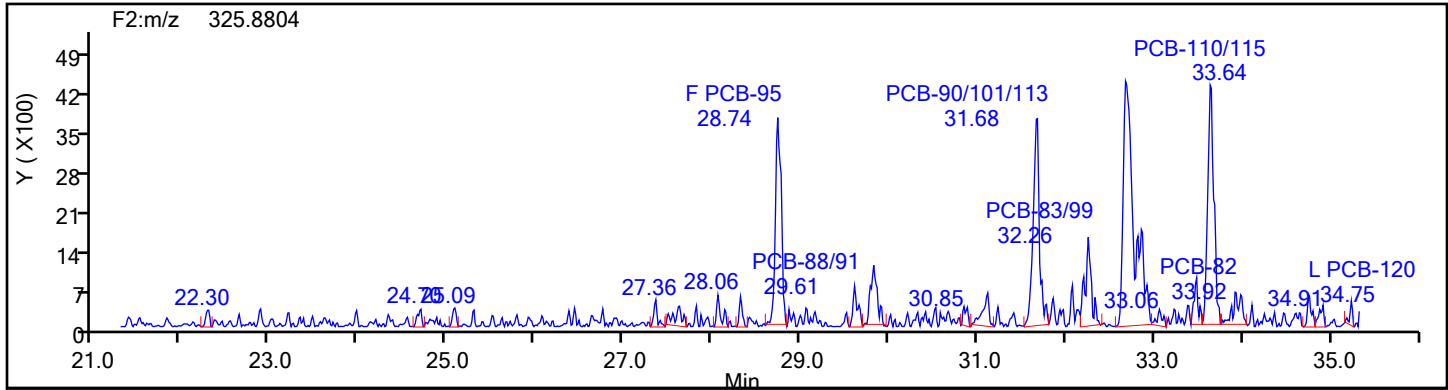


## TePCB F2 Lock Mass

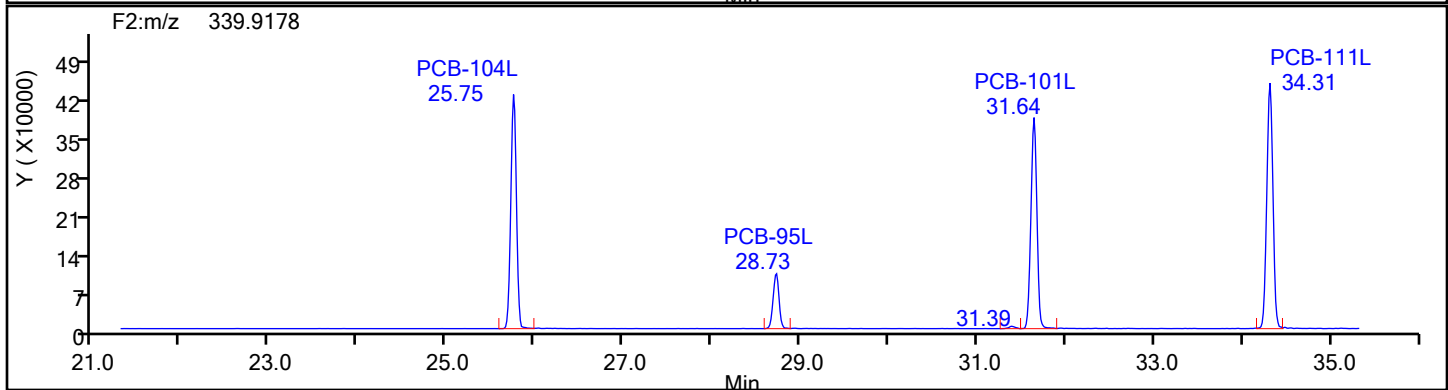
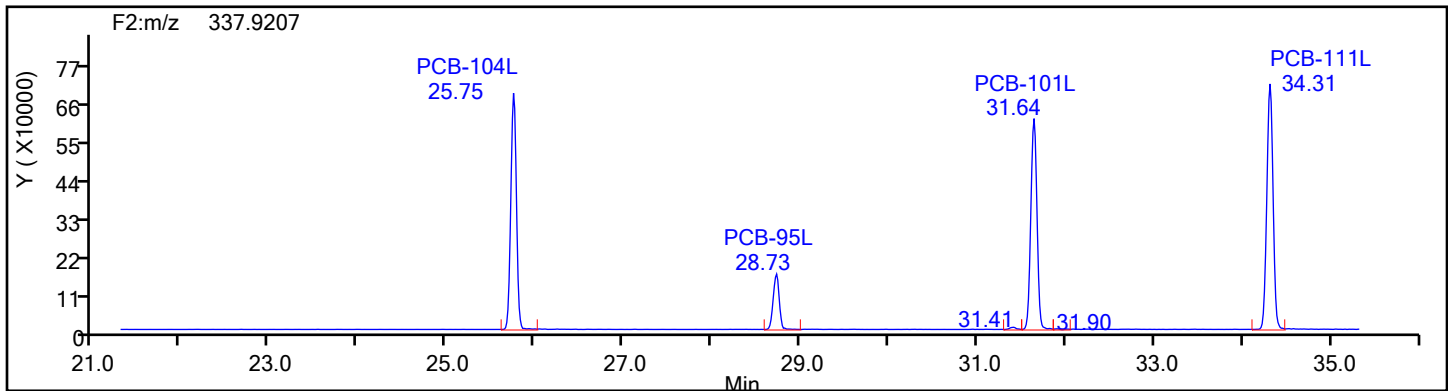


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

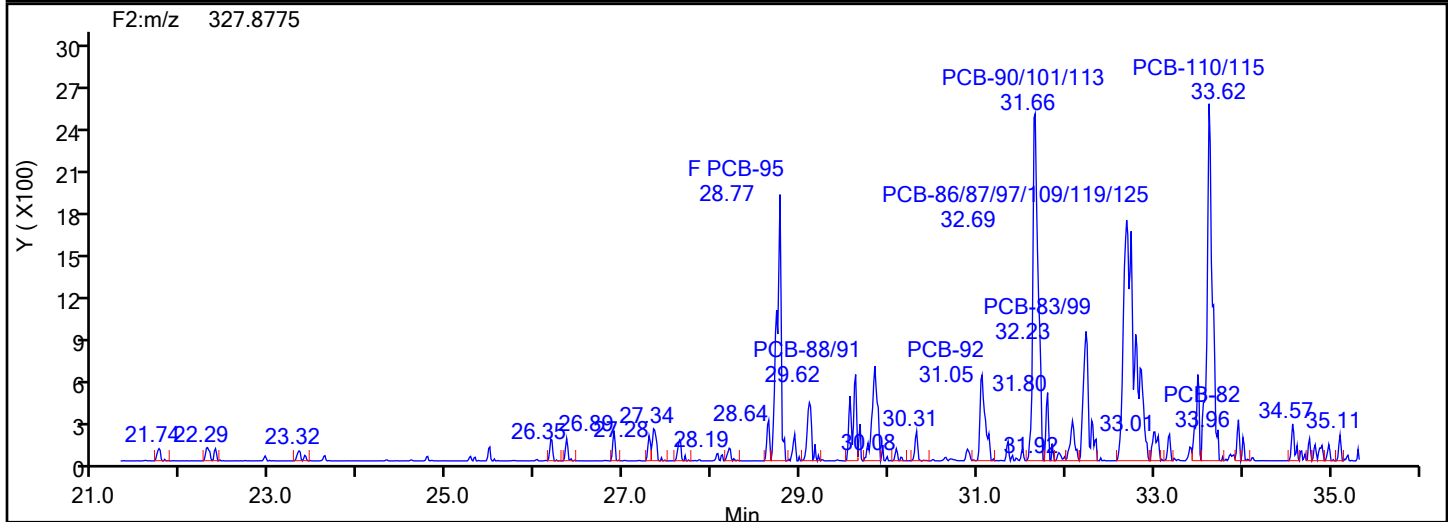
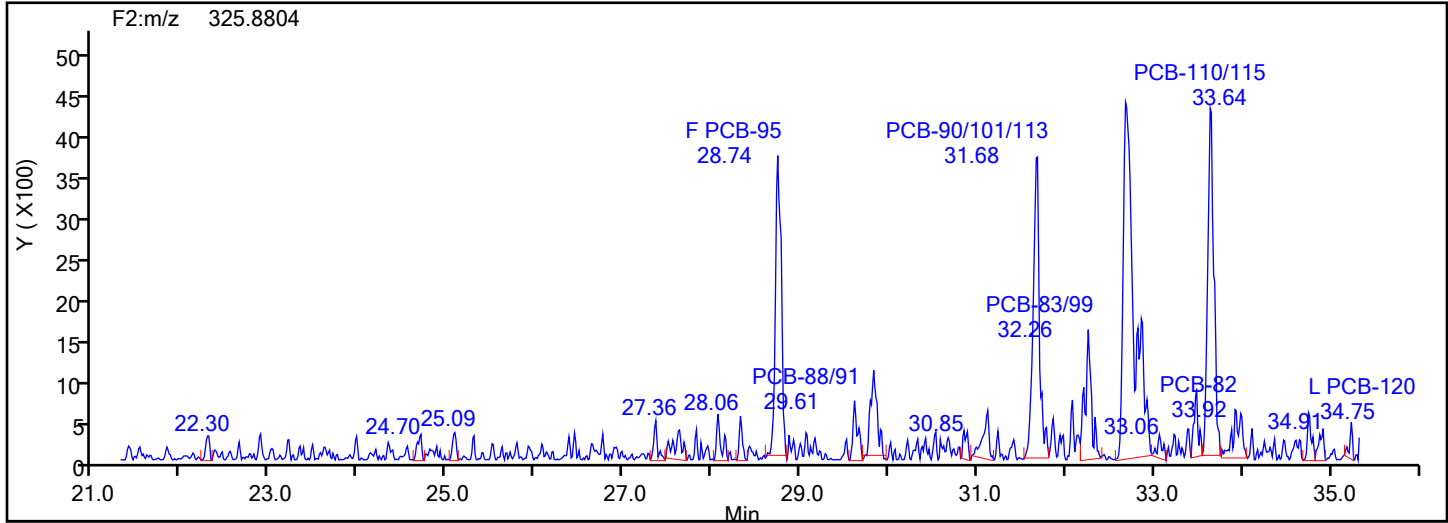


## PePCB F2 Standards

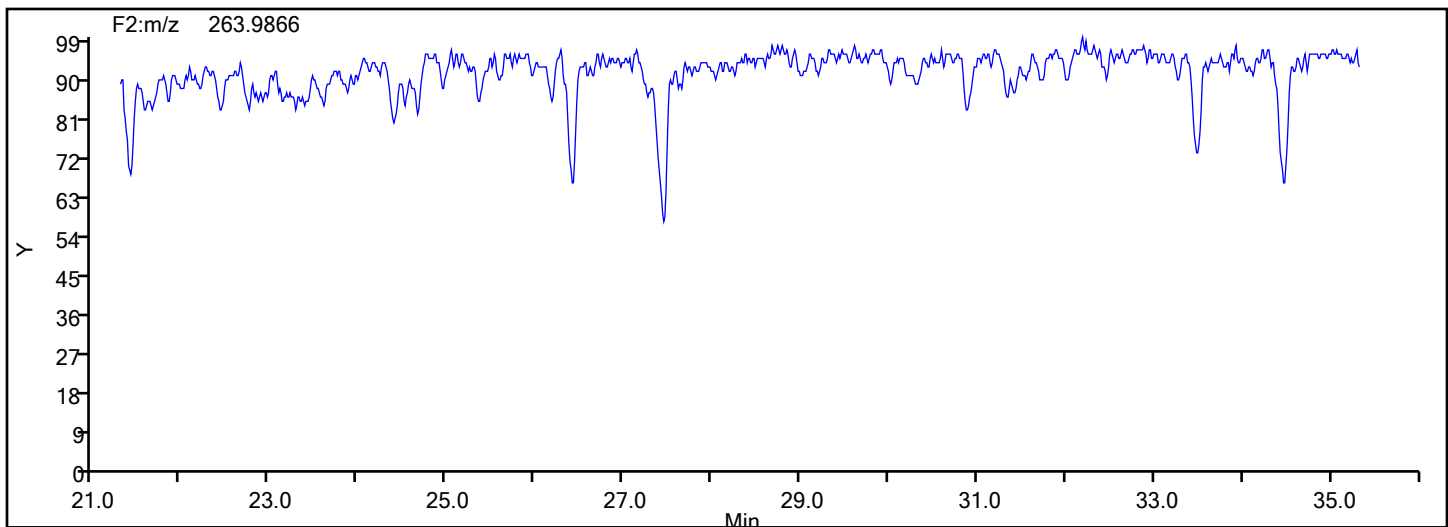


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

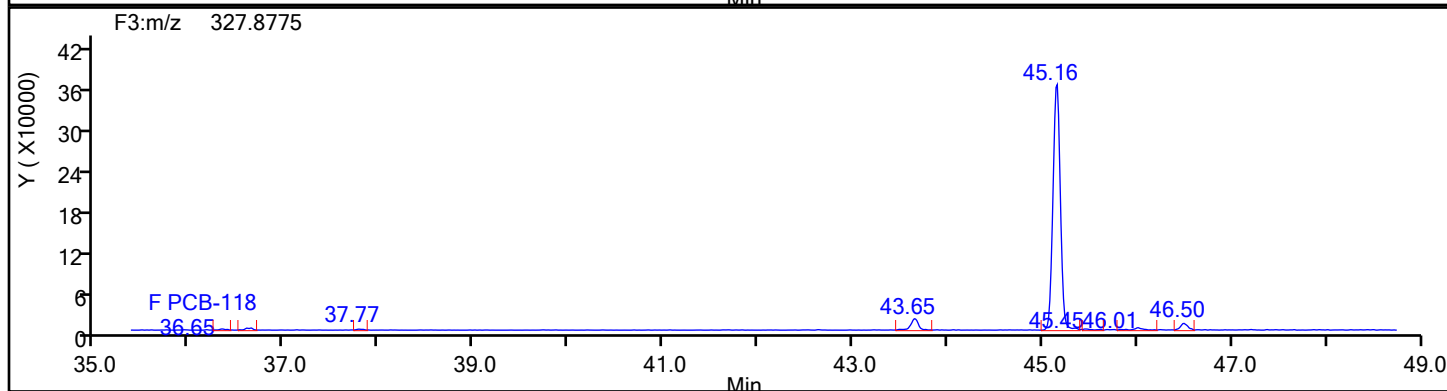
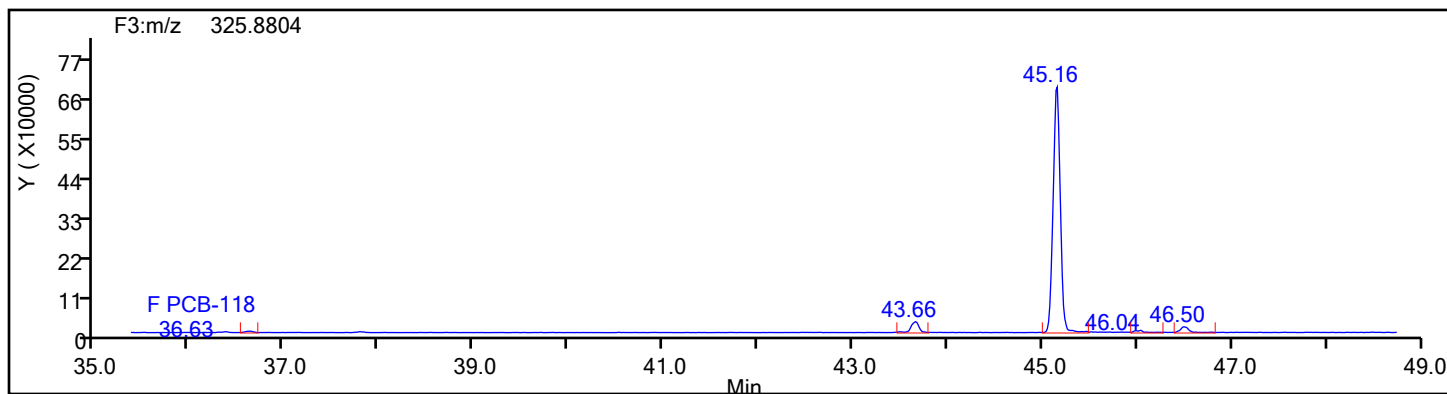


## PePCB F2 Lock Mass

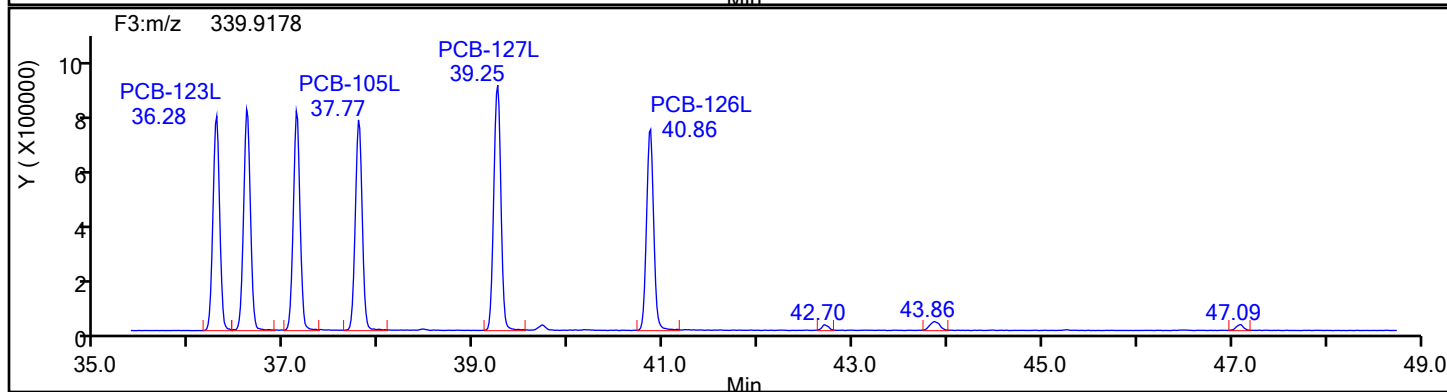
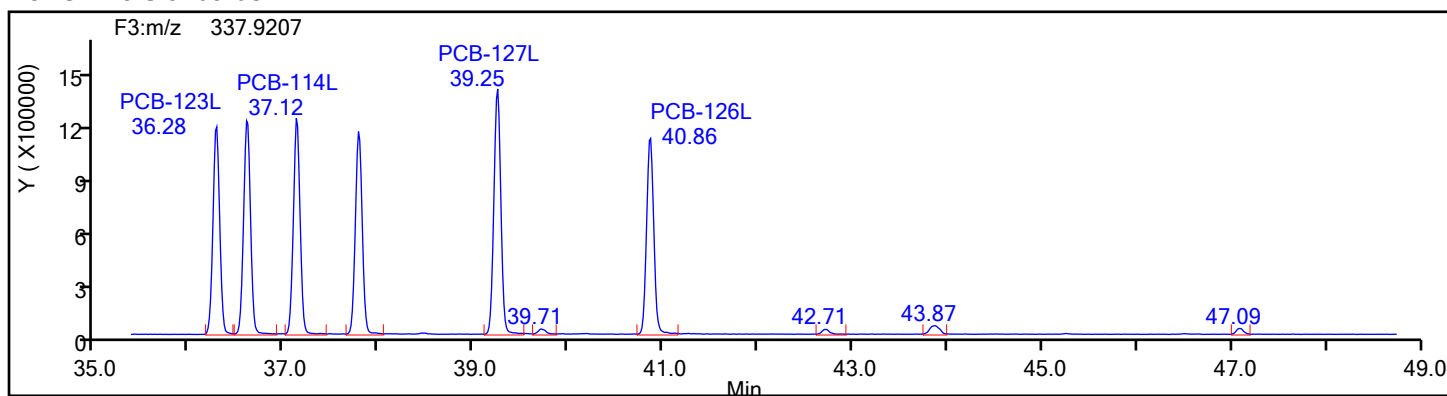


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

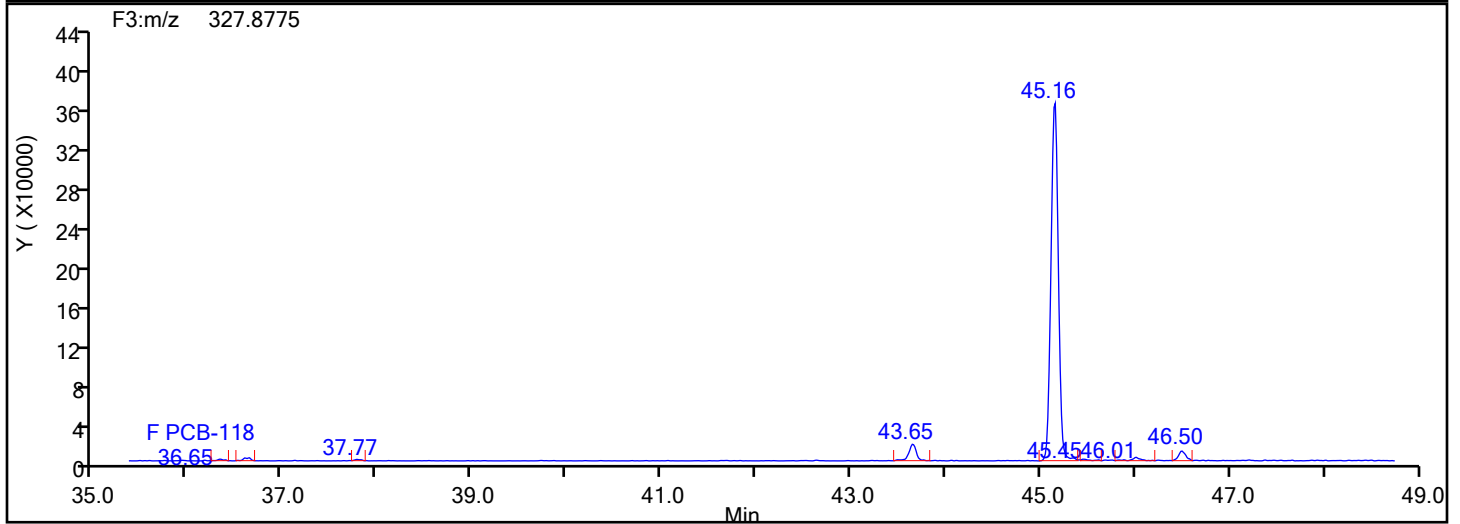
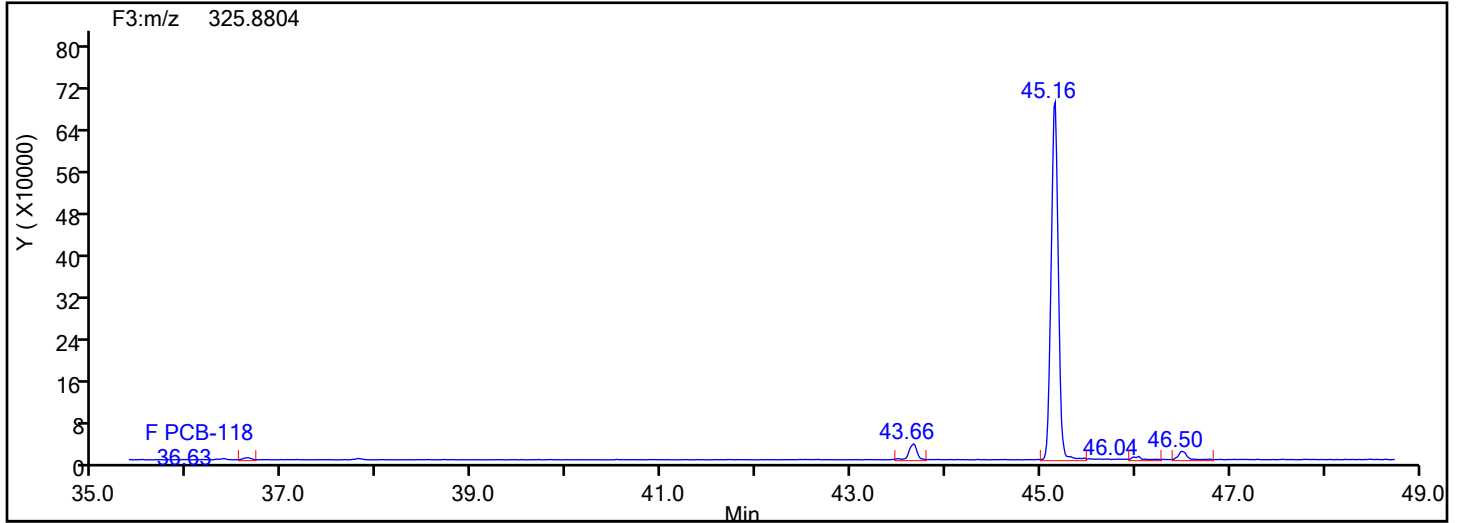


## PePCB F3 Standards

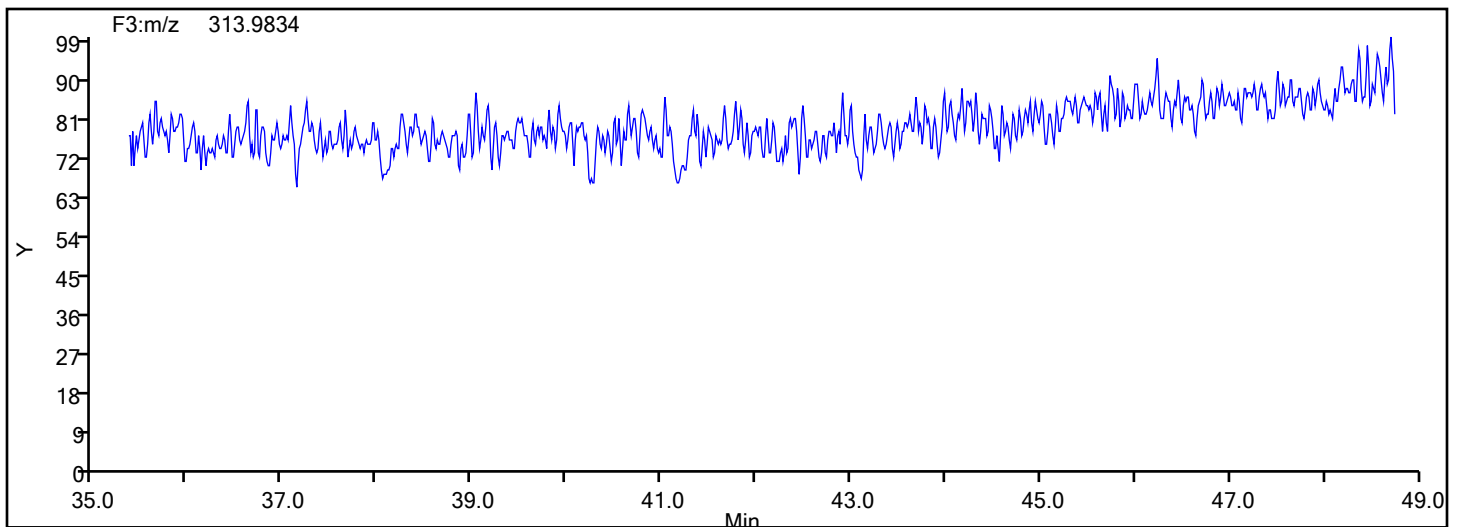


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

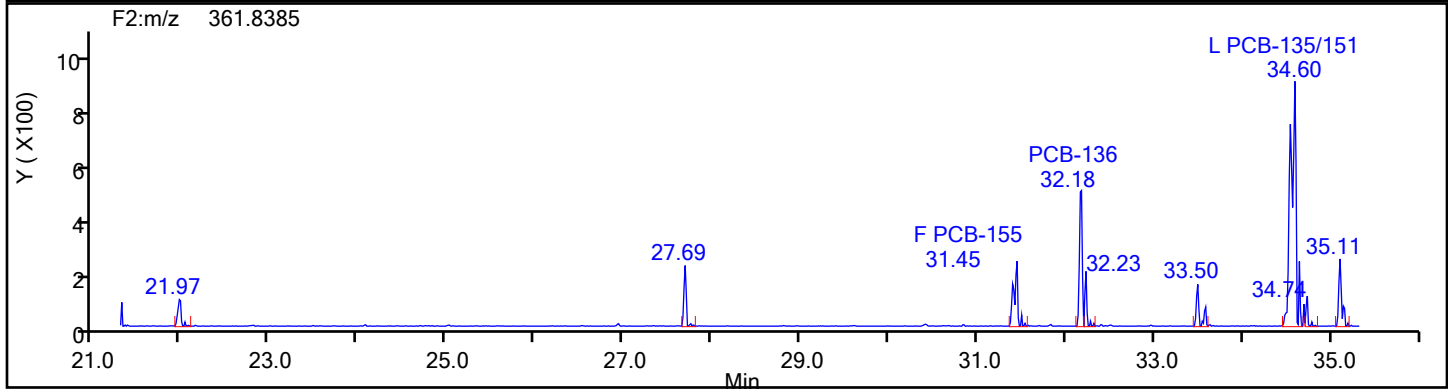
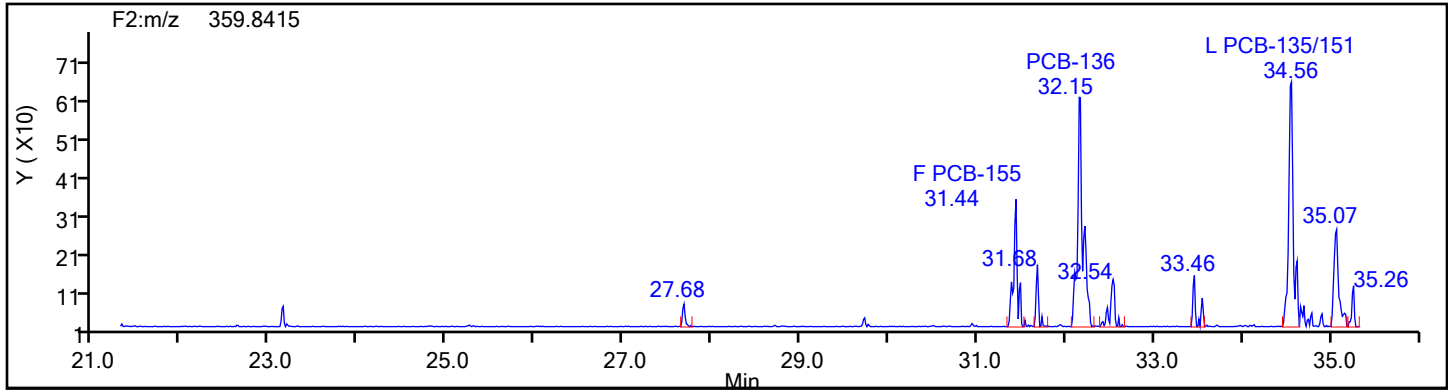


## PePCB F3 Lock Mass

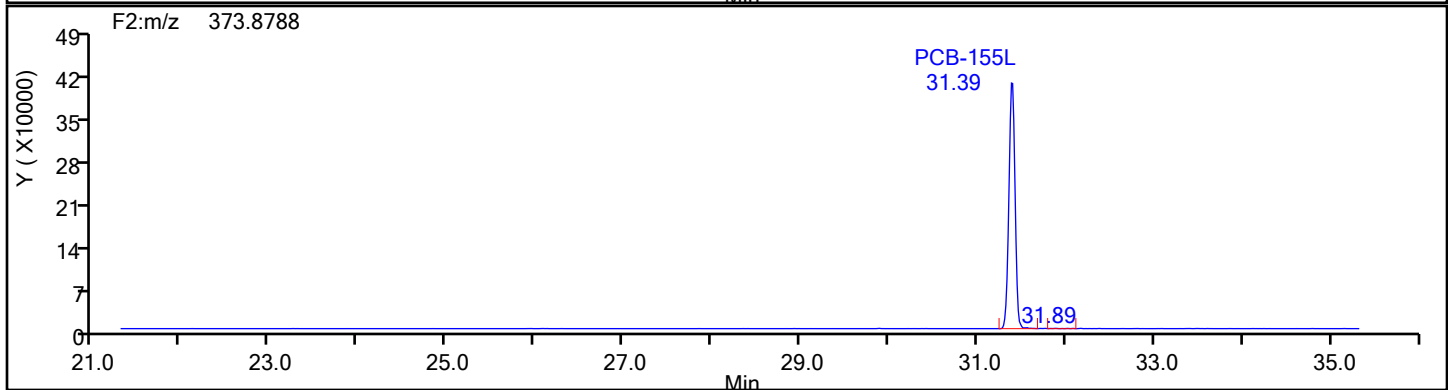
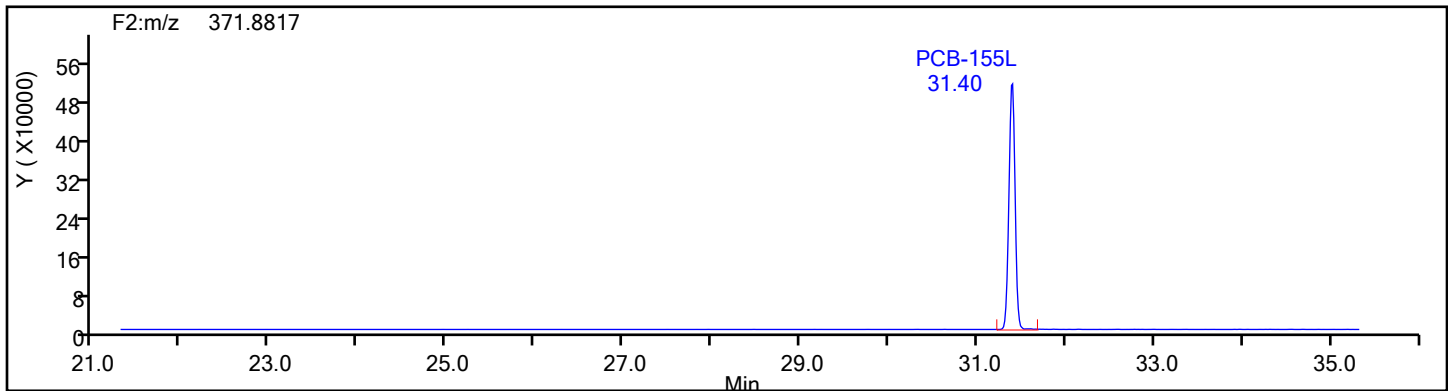


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

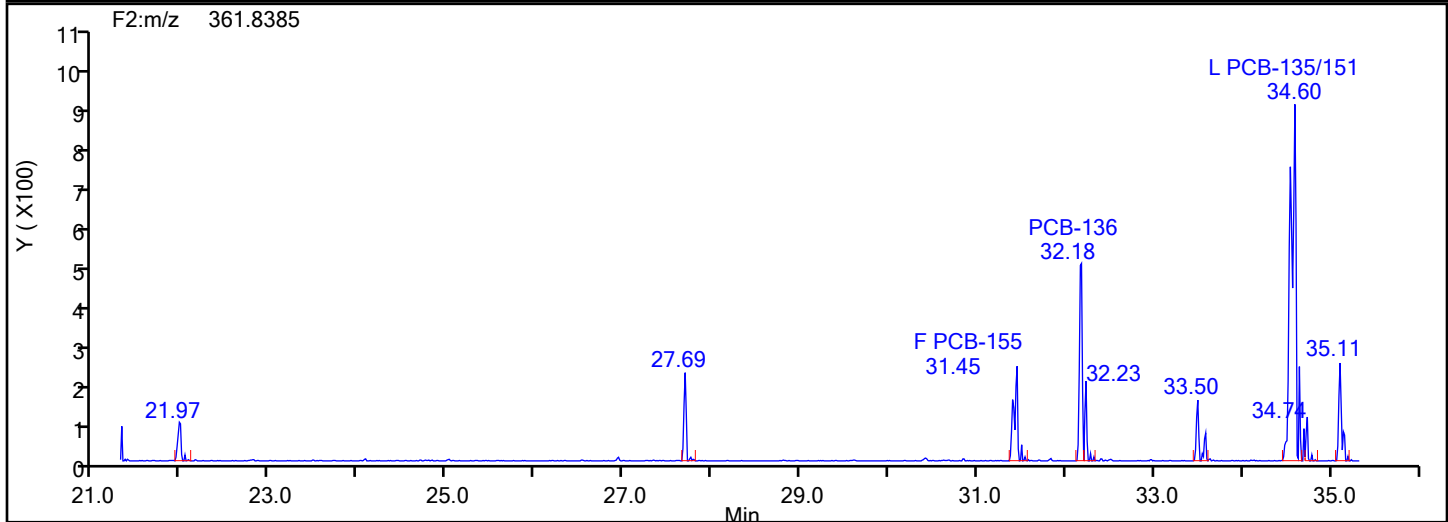
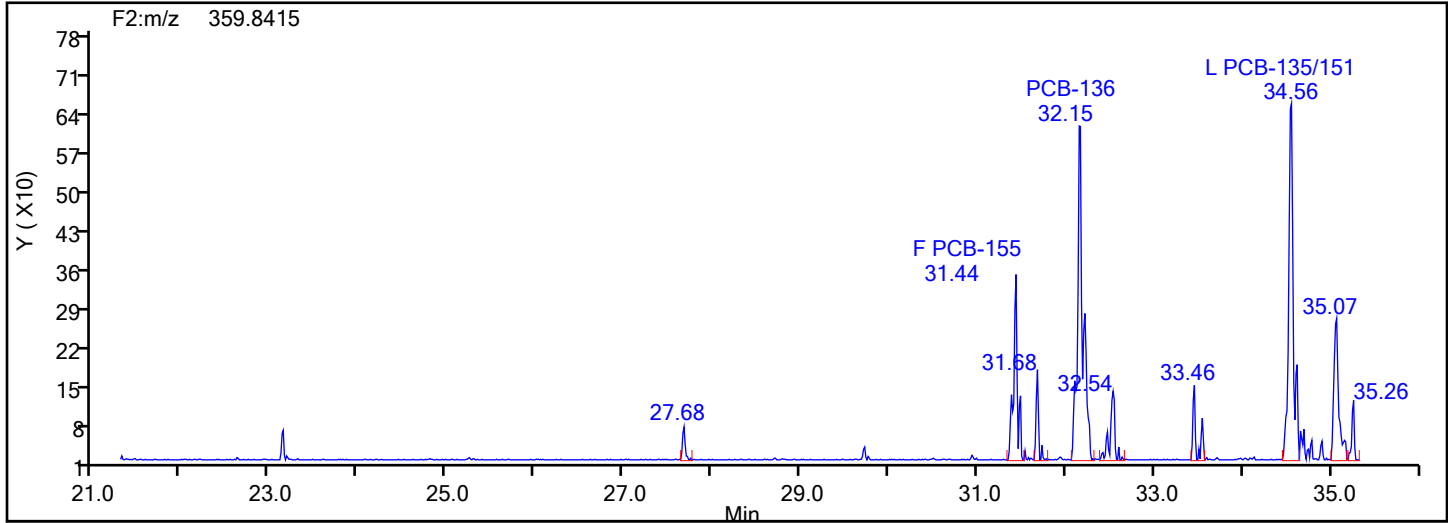


## HxPCB F2 Standards

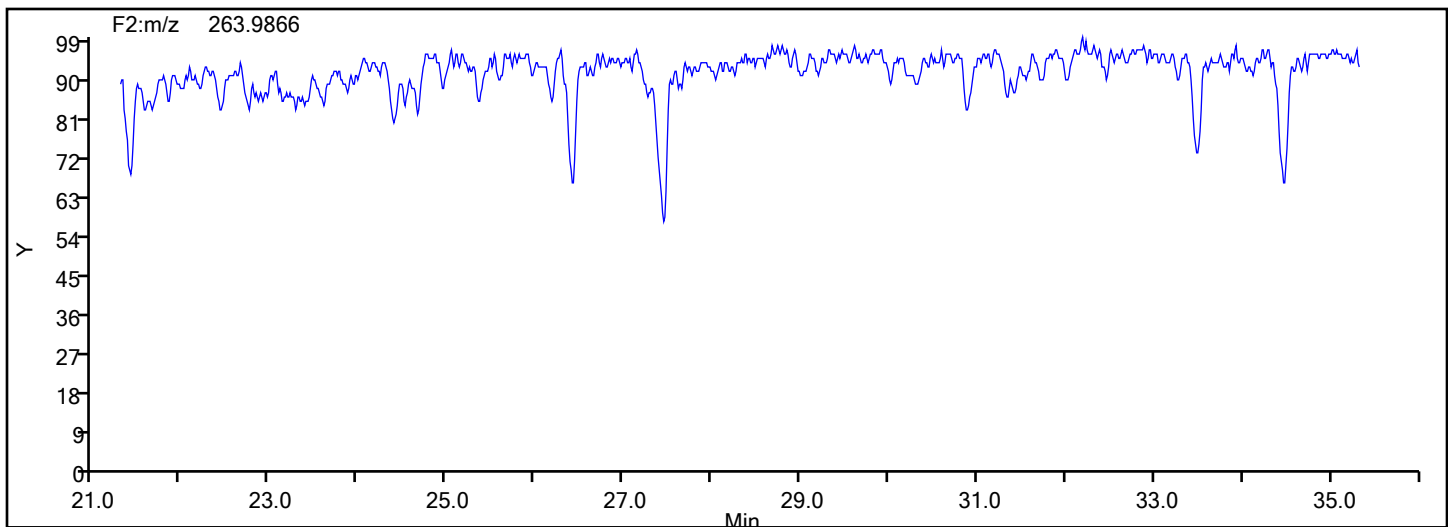


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



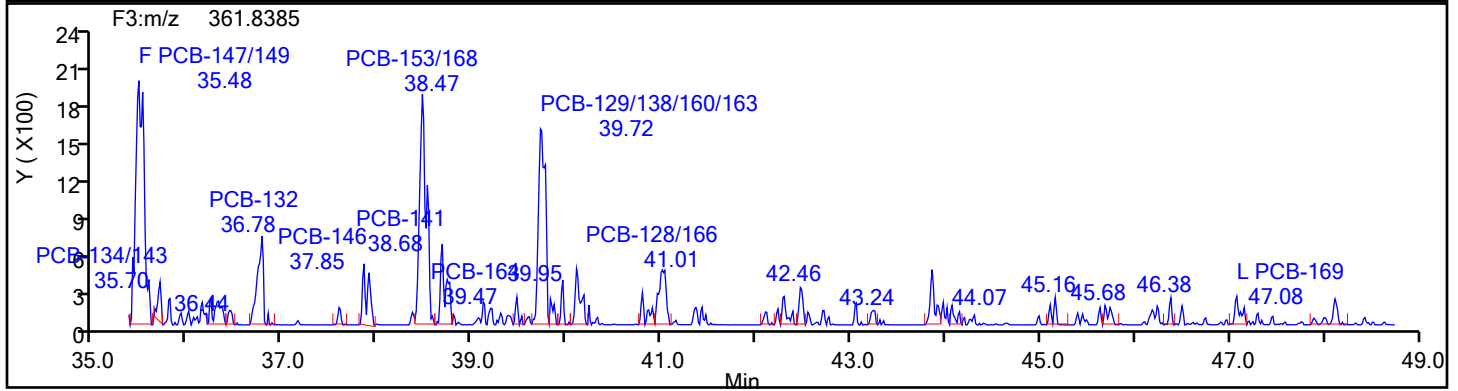
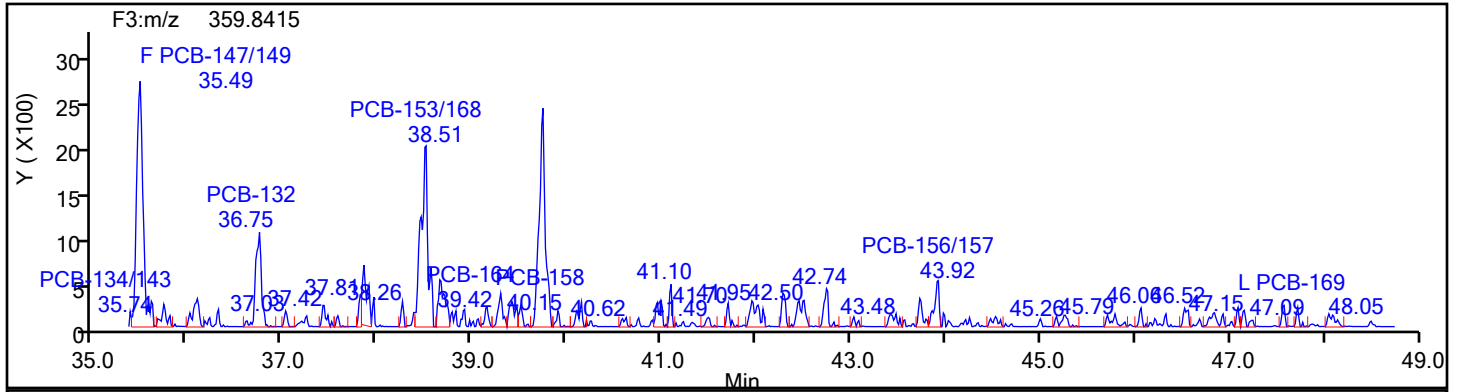
## HxPCB F2 Lock Mass



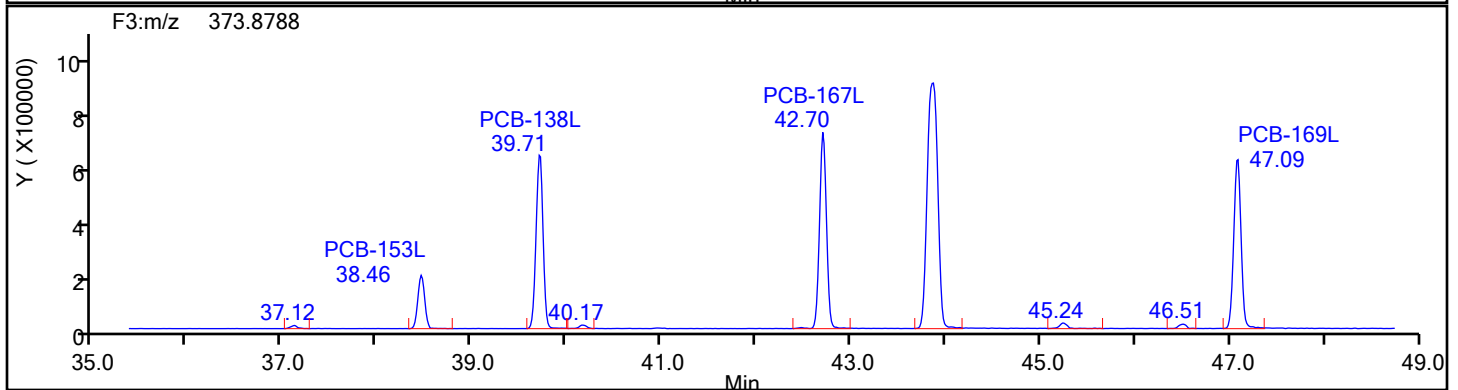
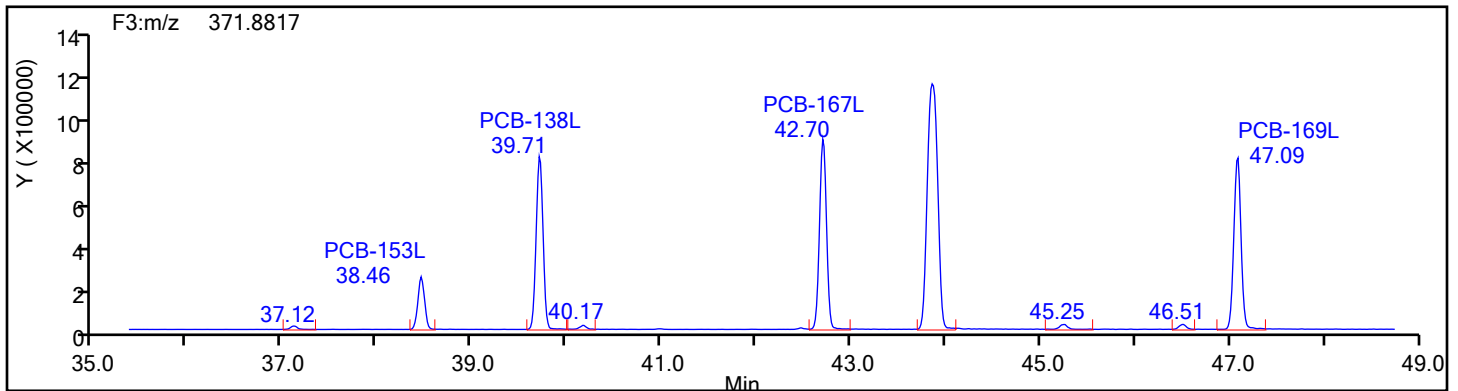


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3

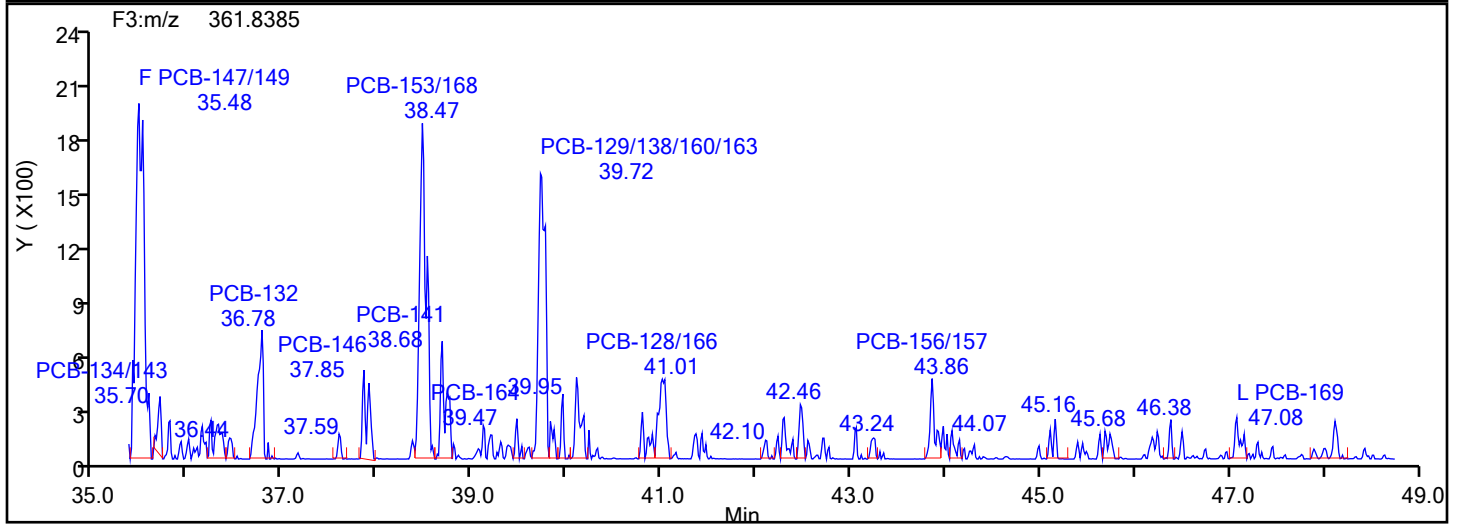
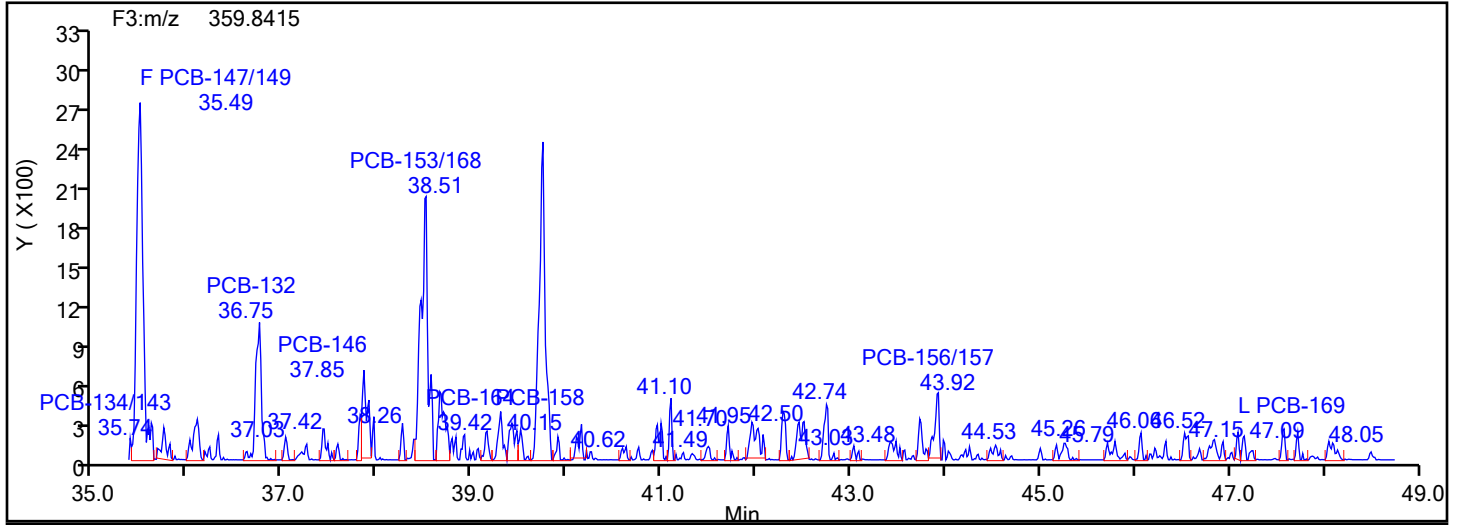


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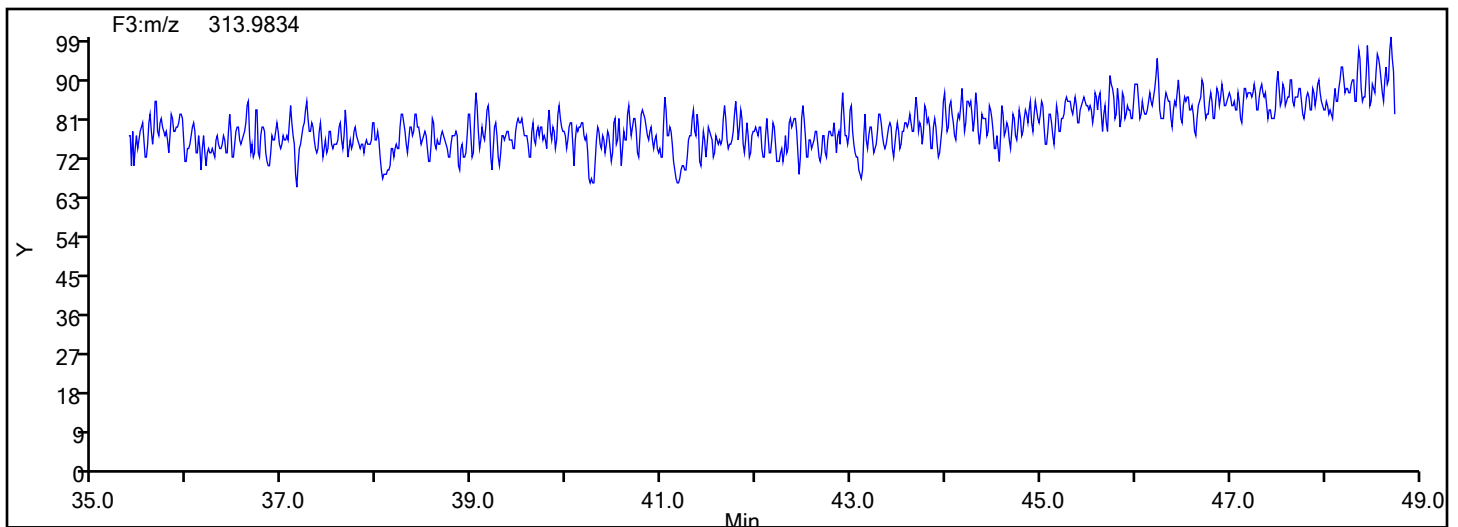


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

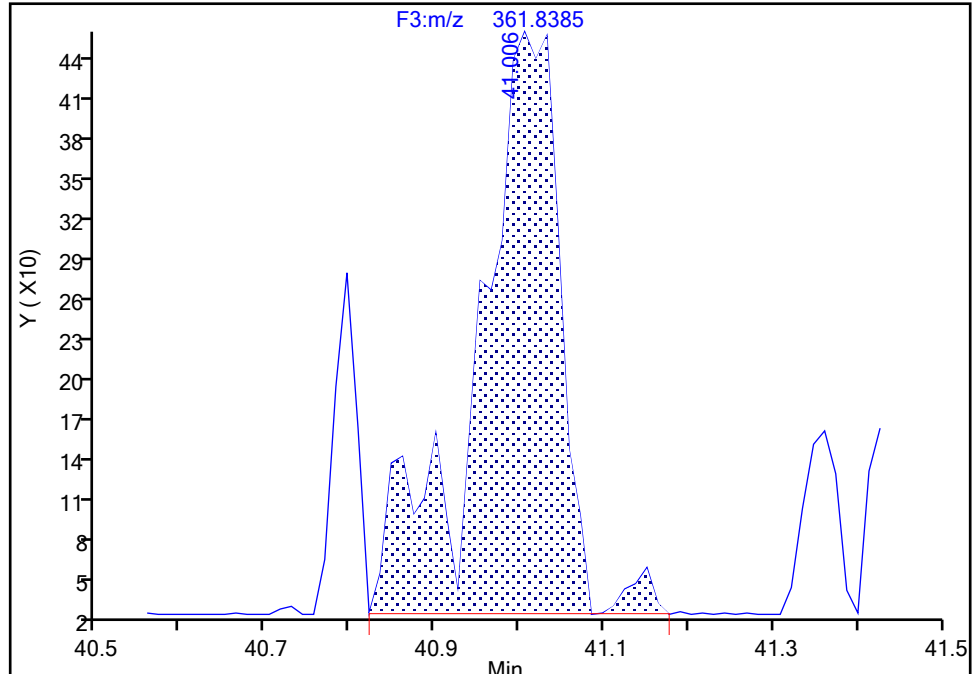
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Injection Date: 28-Jun-2024 04:00:00 Instrument ID: D2D  
Lims ID: 140-36940-A-1-C Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1\IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-128/166, CAS: STL01816**

Signal: 2

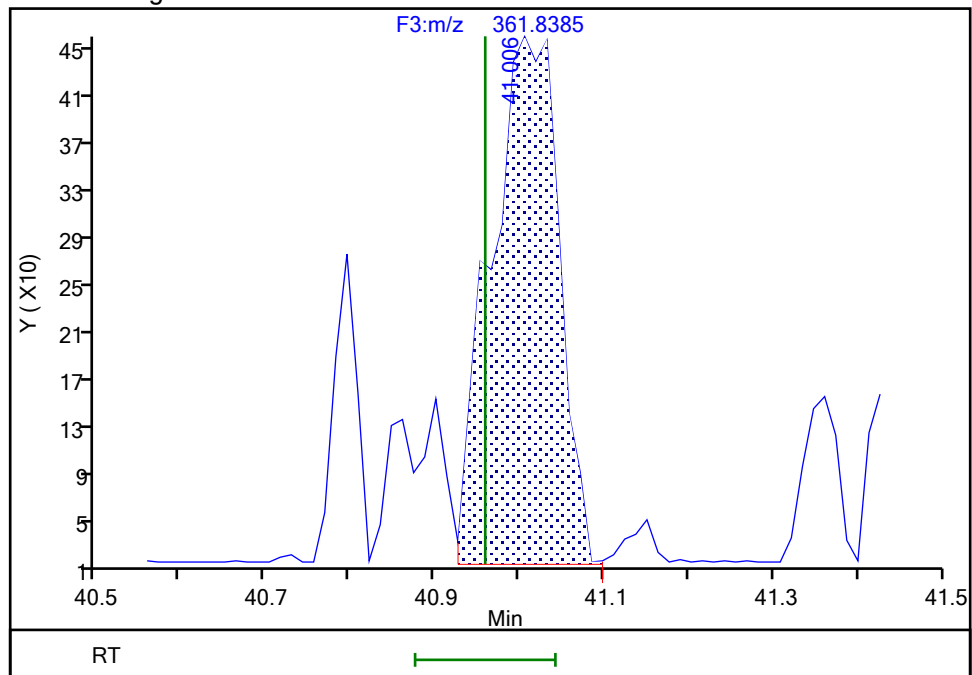
RT: 41.01  
Area: 3012  
Amount: 0.055568  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.01  
Area: 2448  
Amount: 0.047933  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:54:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

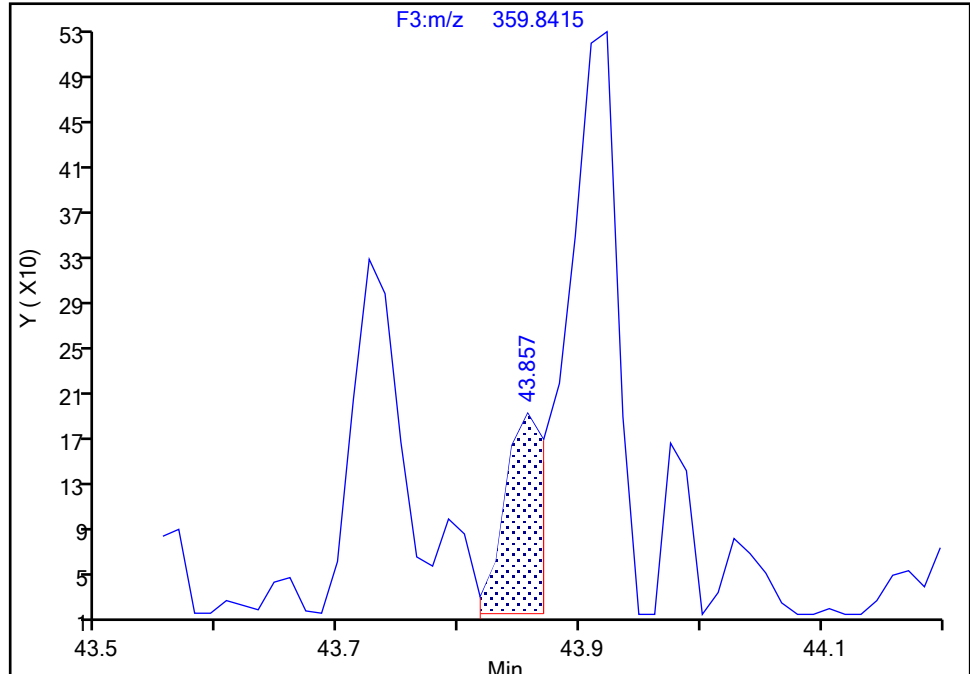
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Injection Date: 28-Jun-2024 04:00:00 Instrument ID: D2D  
Lims ID: 140-36940-A-1-C Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-156/157, CAS: STL01792**

Signal: 1

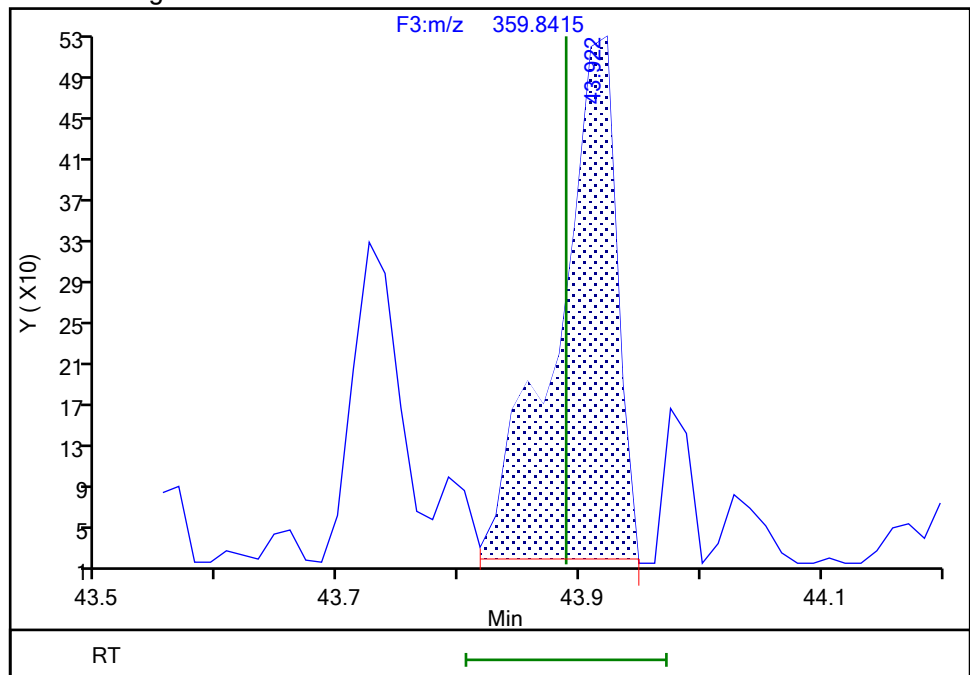
RT: 43.86  
Area: 355  
Amount: 0.028121  
Amount Units: pg/ul

## Processing Integration Results



RT: 43.92  
Area: 1729  
Amount: 0.039004  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:54:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

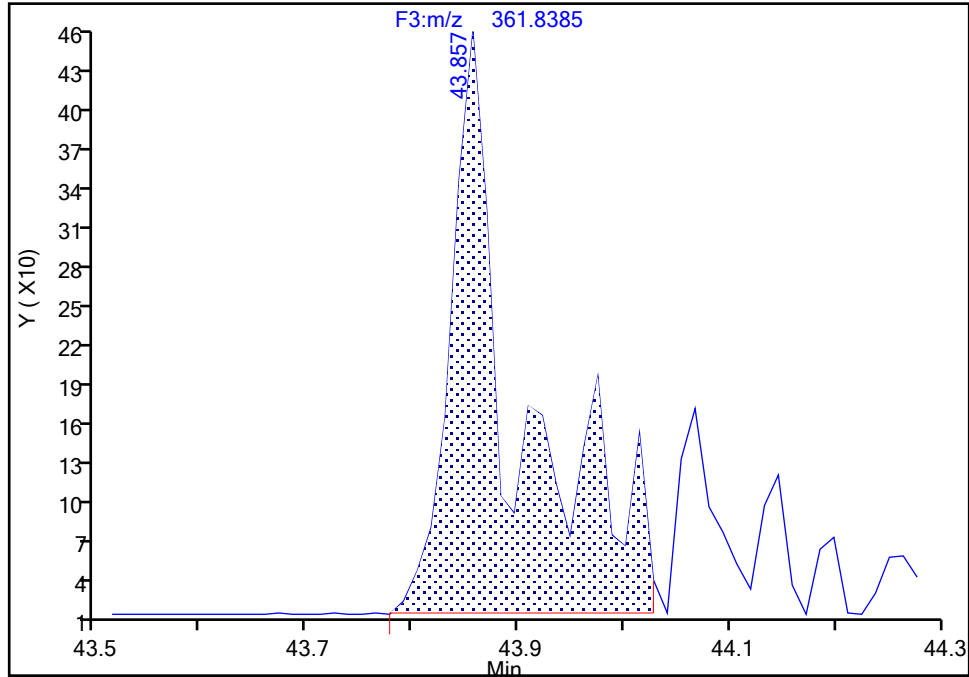
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Lims ID: 140-36940-A-1-C Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

## PCB-156/157, CAS: STL01792

Signal: 2

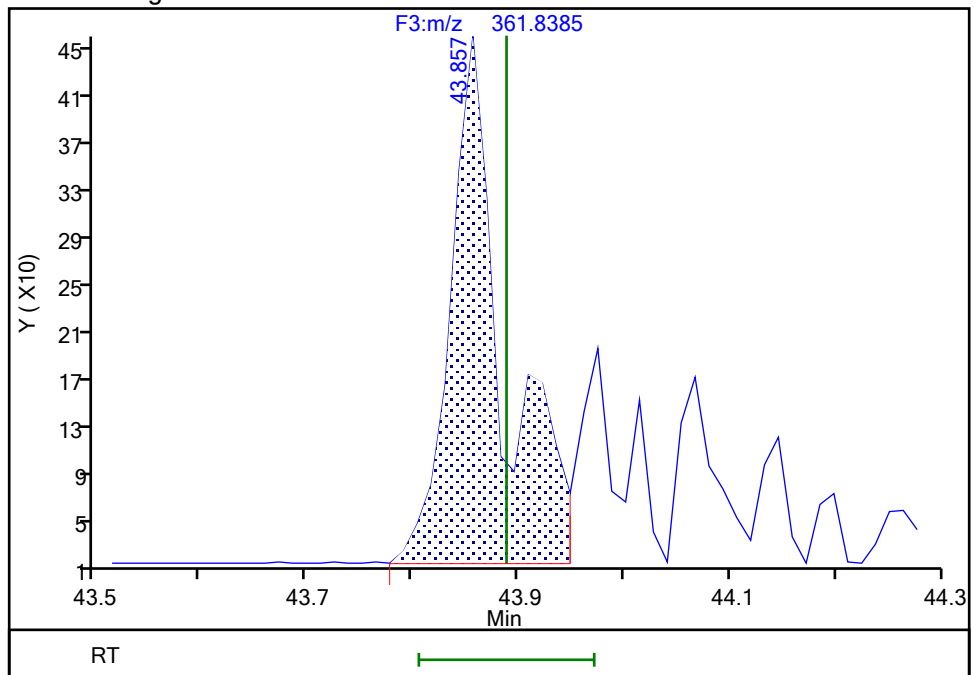
RT: 43.86  
Area: 1986  
Amount: 0.028121  
Amount Units: pg/ul

## Processing Integration Results



RT: 43.86  
Area: 1518  
Amount: 0.039004  
Amount Units: pg/ul

## Manual Integration Results



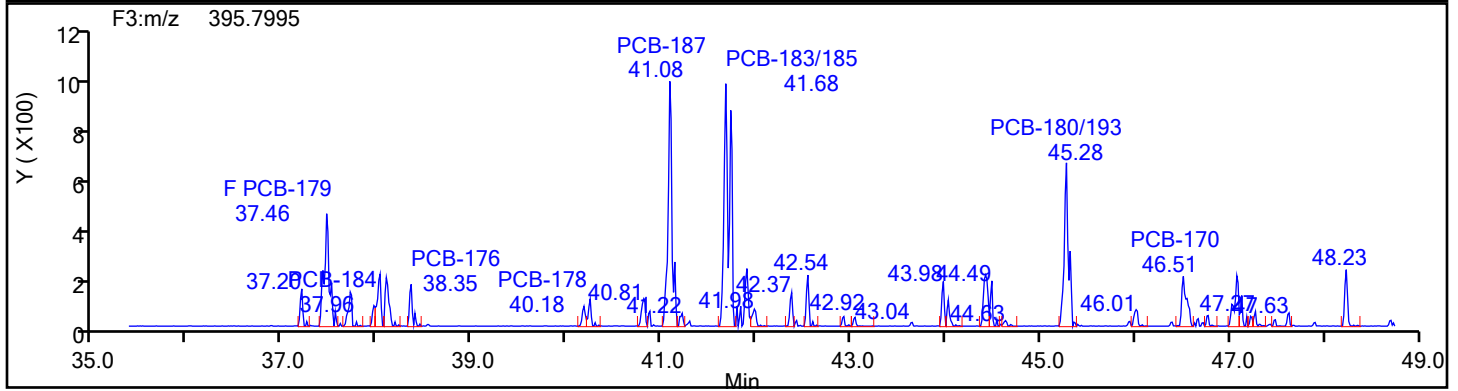
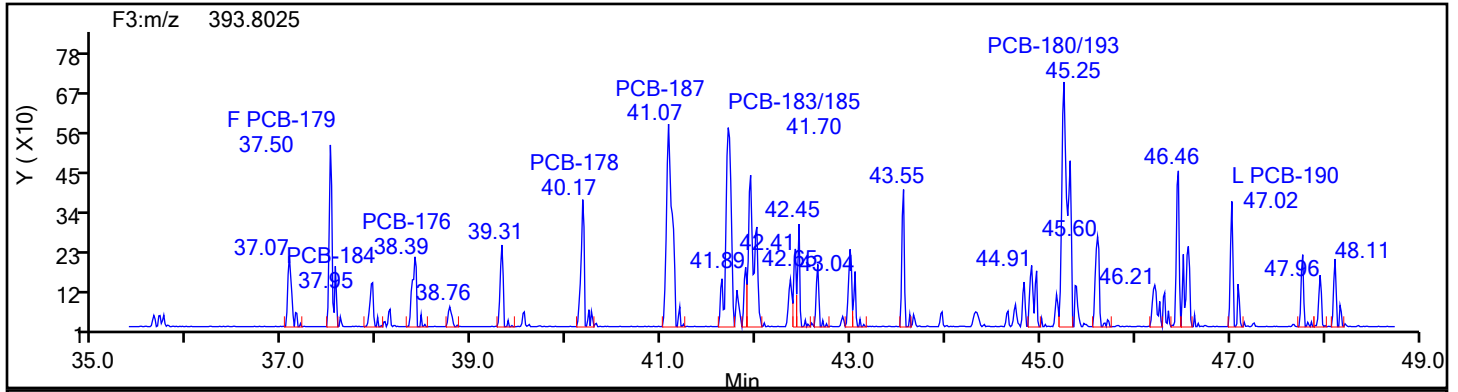
Reviewer: P0IK, 28-Jun-2024 11:55:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

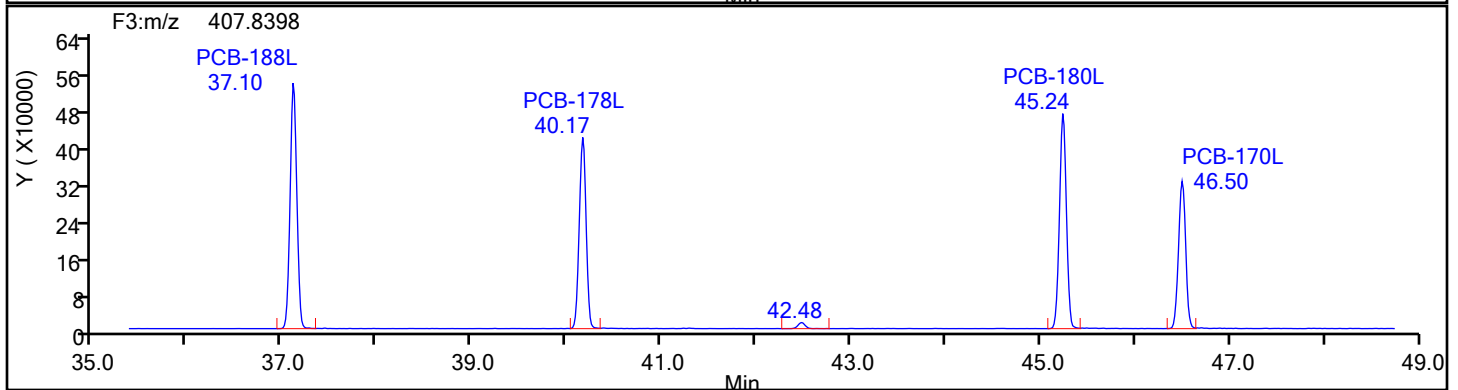
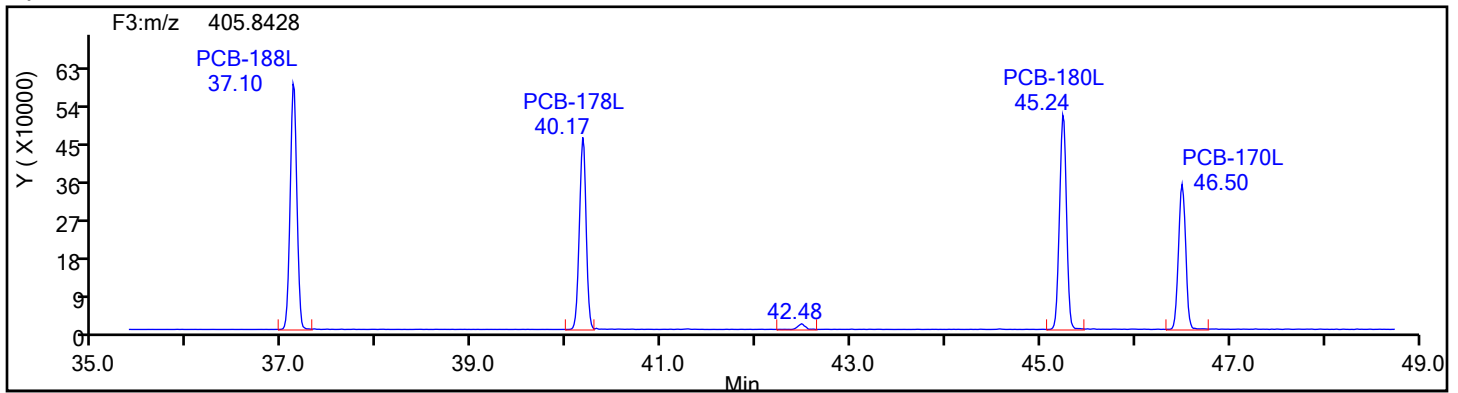
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

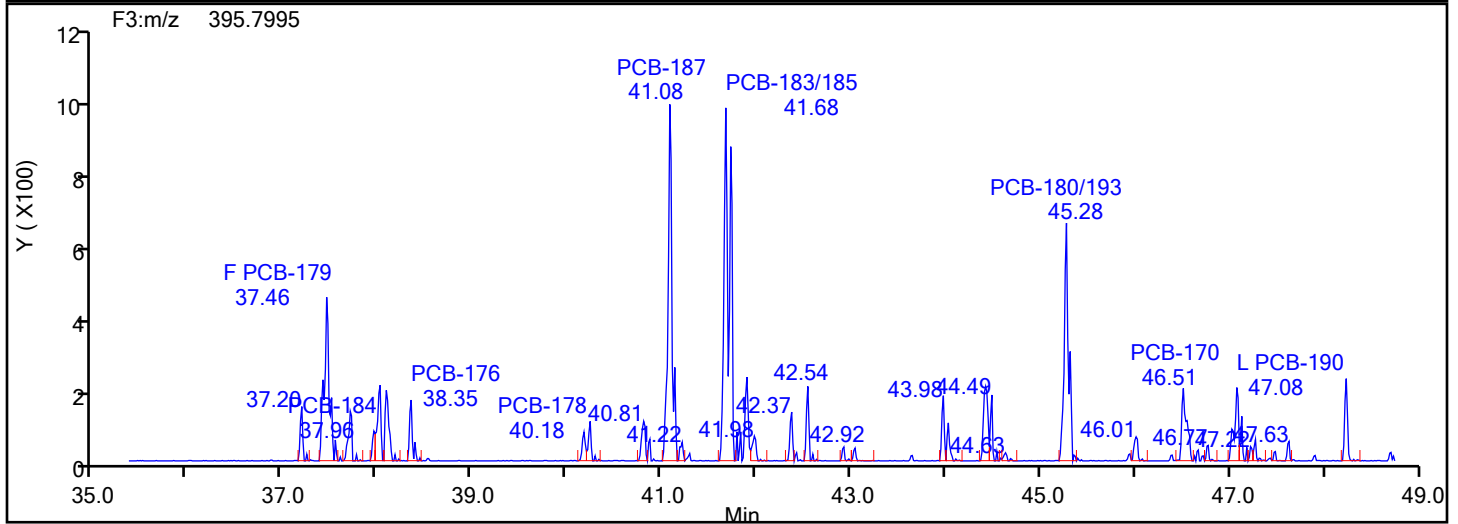
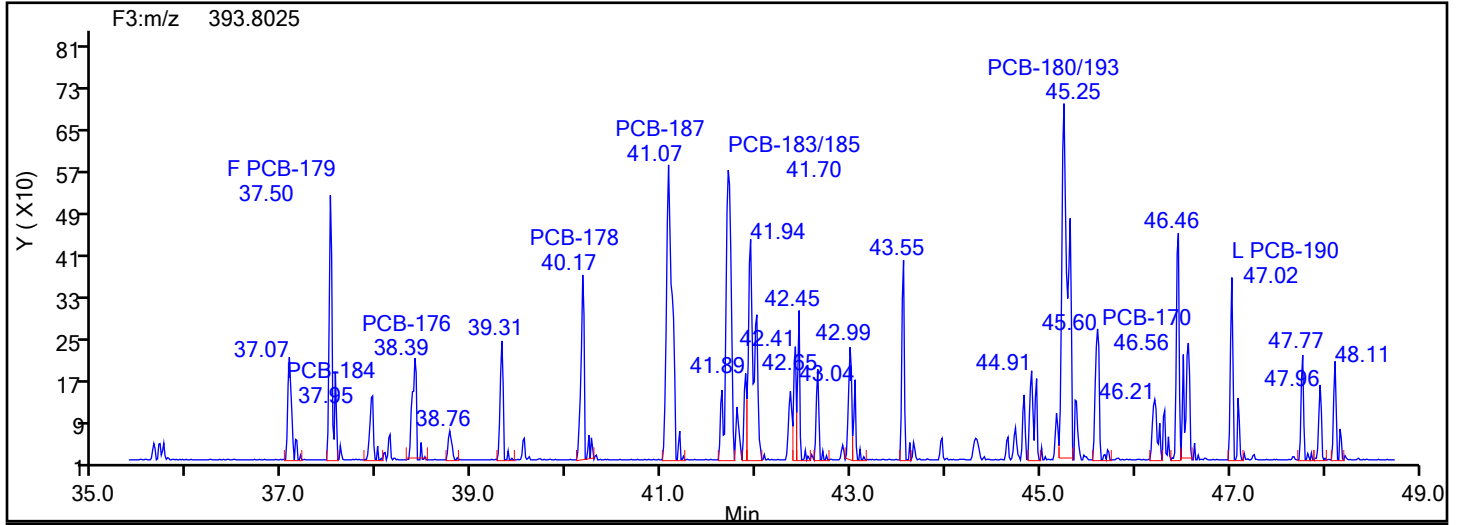


## HpPCB F3 Standards

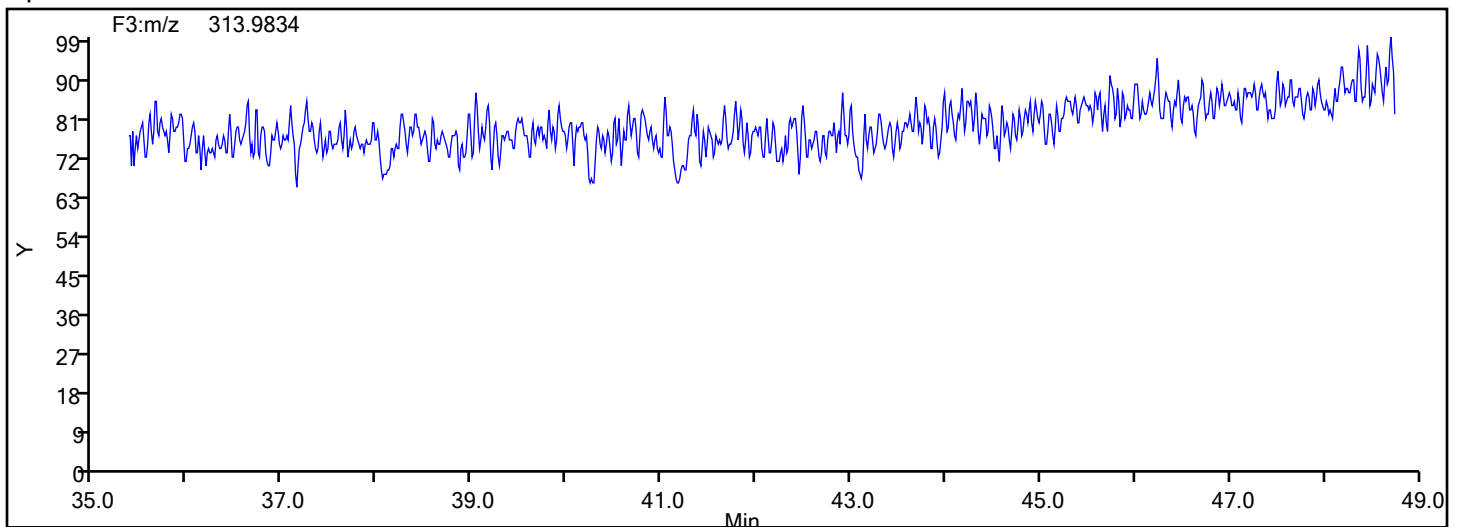


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

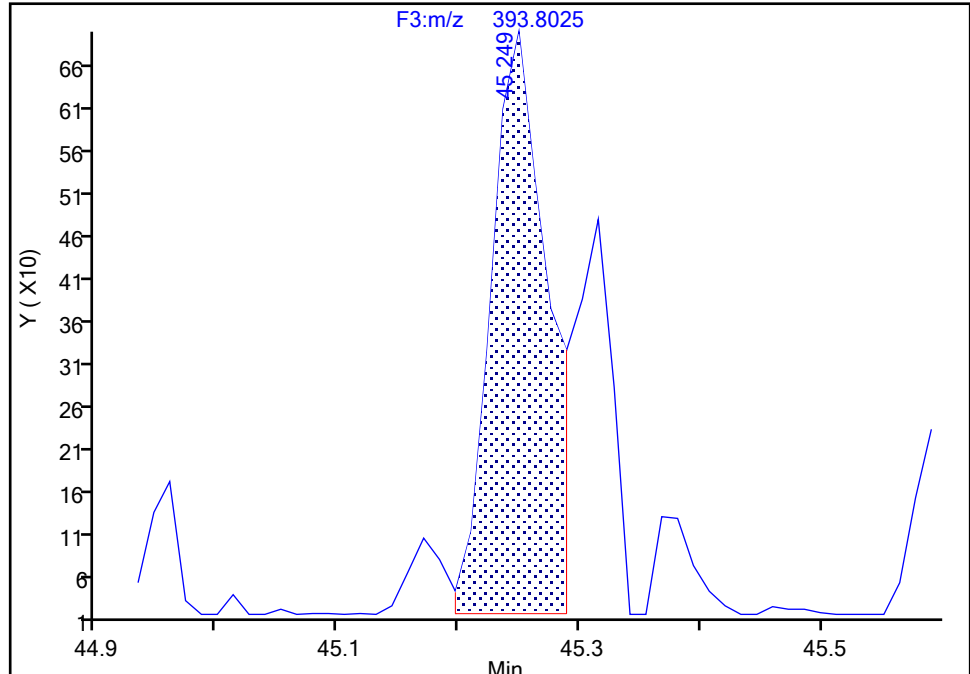
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Lims ID: 140-36940-A-1-C Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

PCB-180/193, CAS: STL01824

Signal: 1

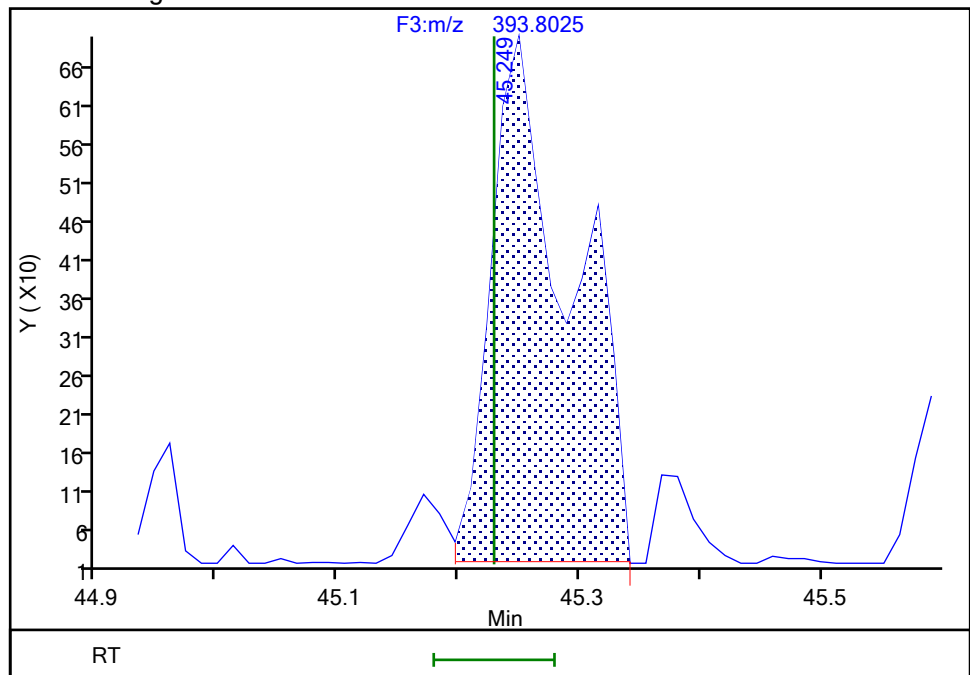
RT: 45.25  
Area: 2137  
Amount: 0.077231  
Amount Units: pg/ul

## Processing Integration Results



RT: 45.25  
Area: 3113  
Amount: 0.095606  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:57:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

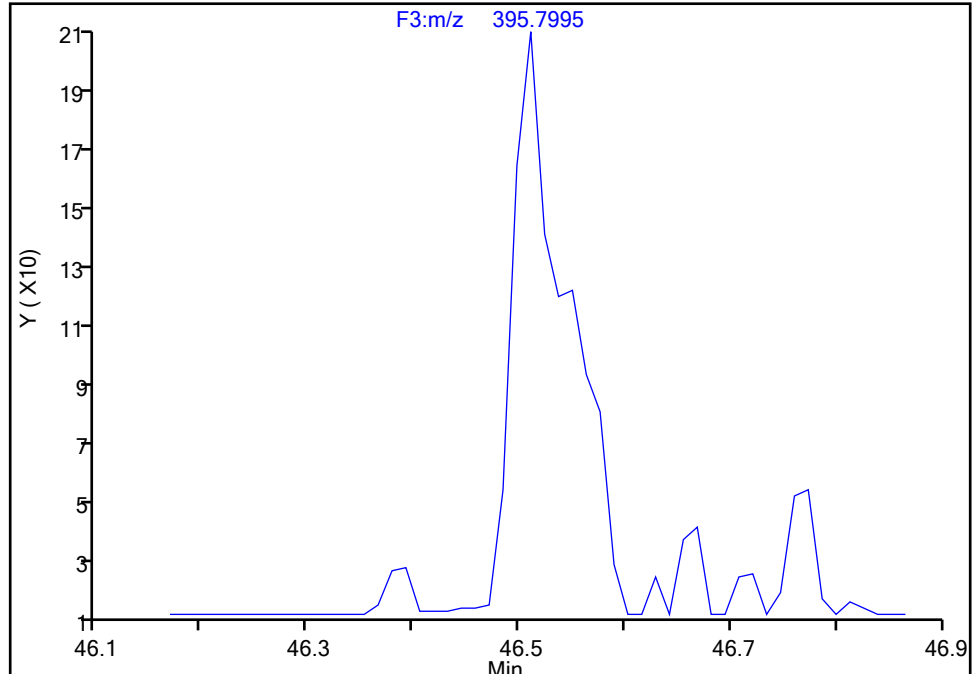
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Lims ID: 140-36940-A-1-C Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

PCB-170, CAS: 35065-30-6

Signal: 2

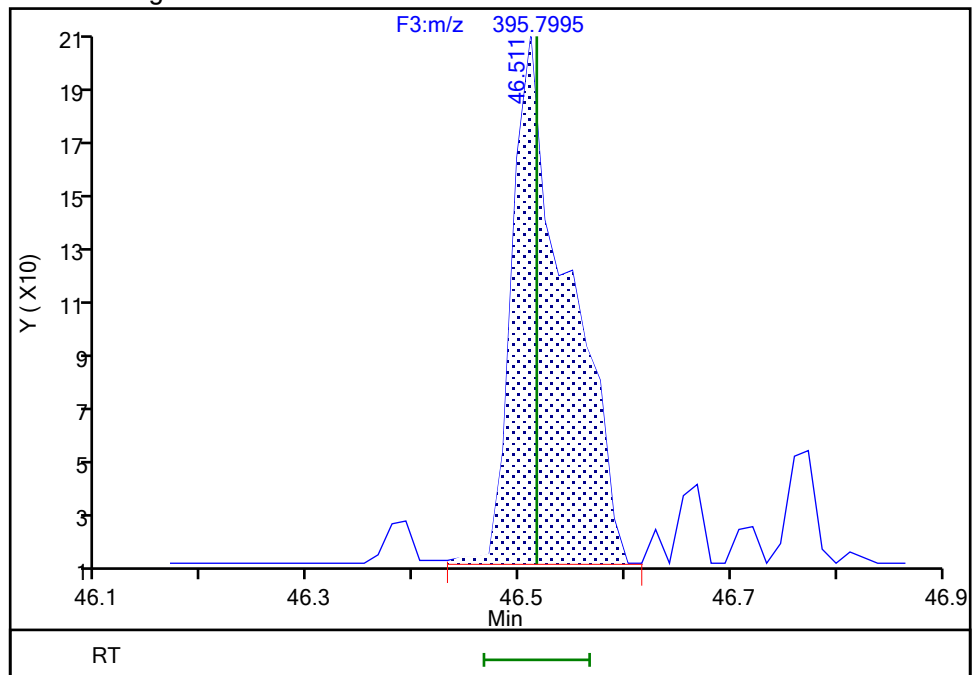
Not Detected  
Expected RT: 46.52

## Processing Integration Results



RT: 46.51  
Area: 681  
Amount: 0.034854  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:58:01 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

## Eurofins Knoxville

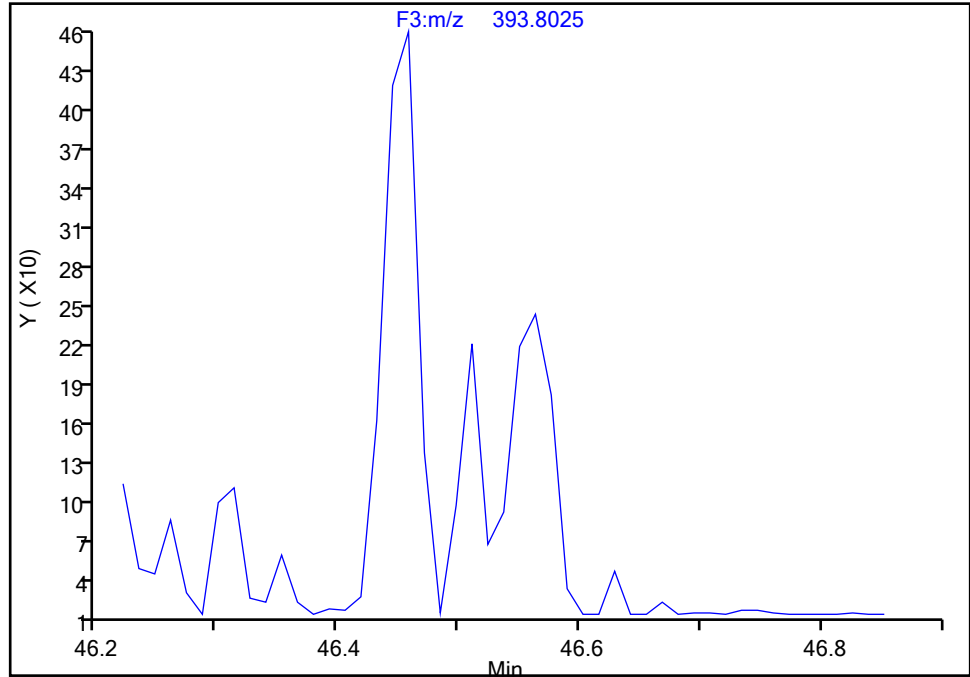
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Lims ID: 140-36940-A-1-C Lab Sample ID: 140-36940-1  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-170, CAS: 35065-30-6**

Signal: 1

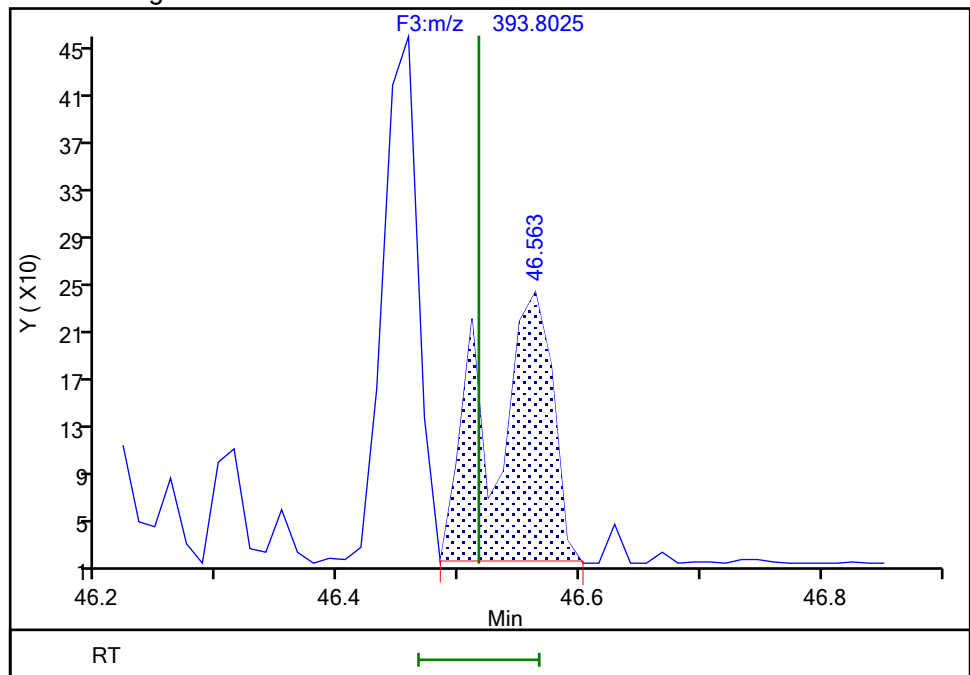
Not Detected  
Expected RT: 46.52

## Processing Integration Results



## Manual Integration Results

RT: 46.56  
Area: 791  
Amount: 0.034854  
Amount Units: pg/ul



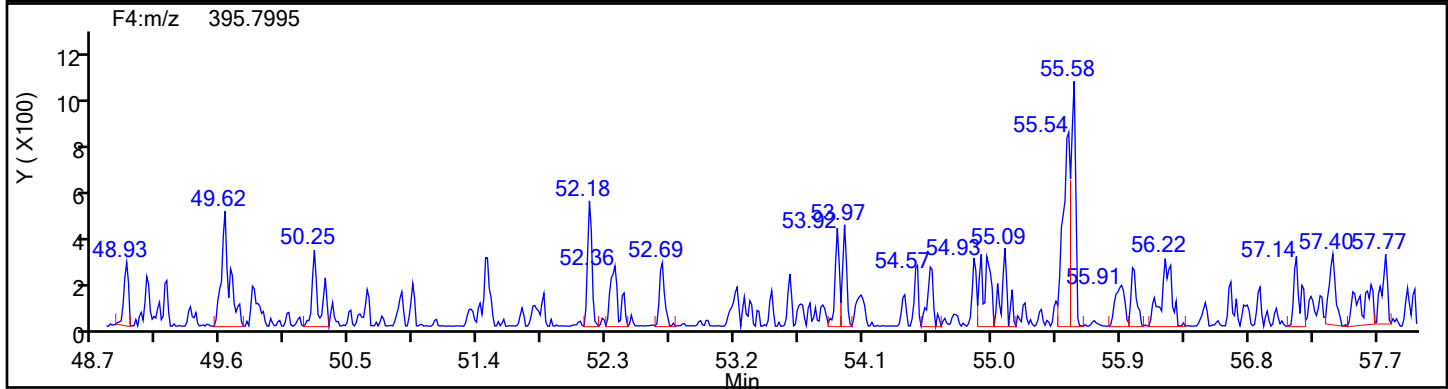
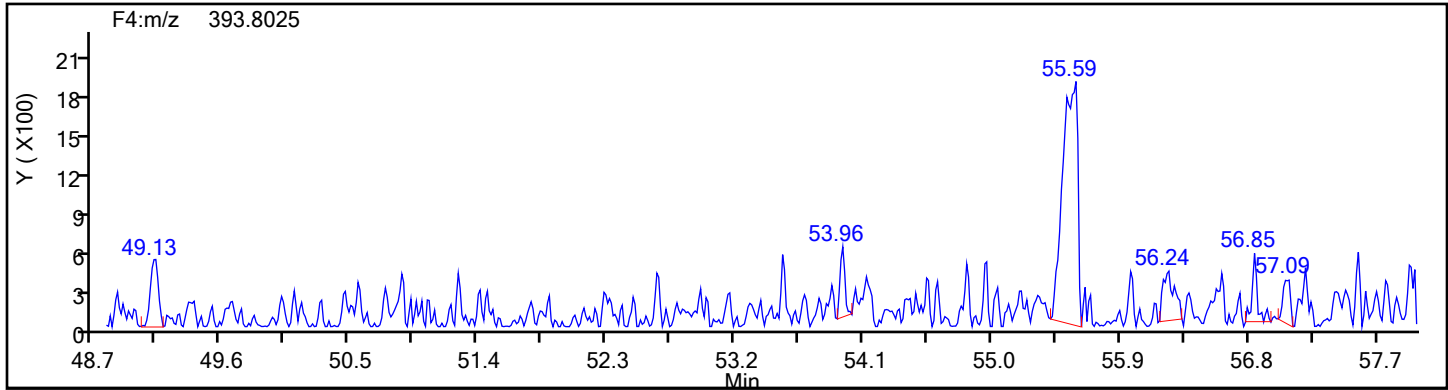
Reviewer: P0IK, 28-Jun-2024 11:58:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

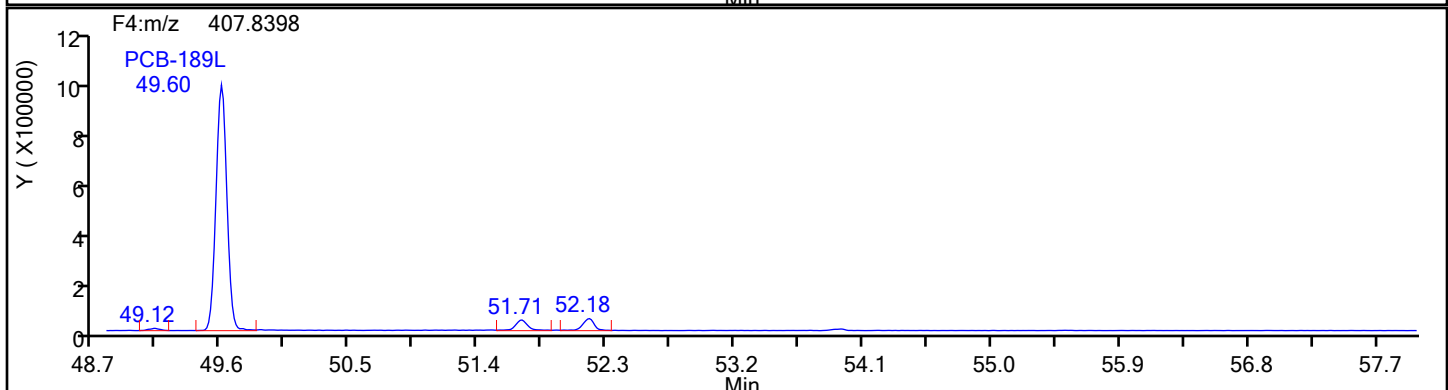
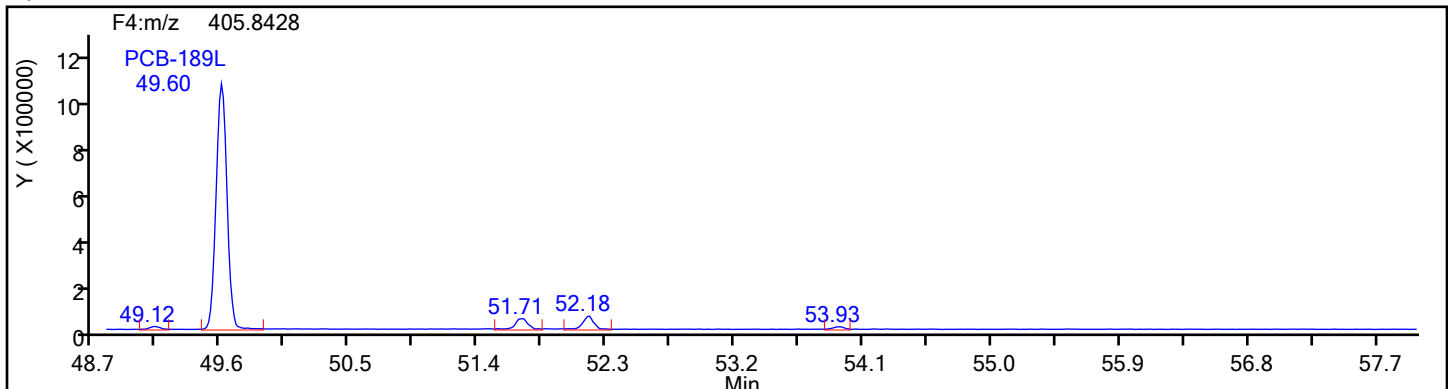
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

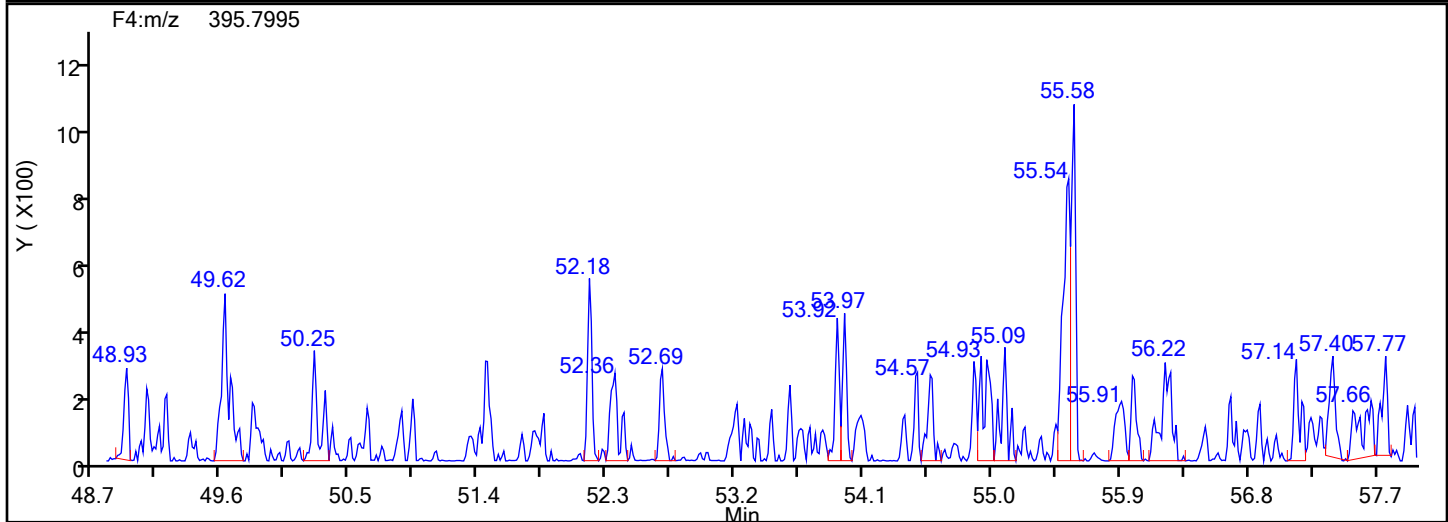
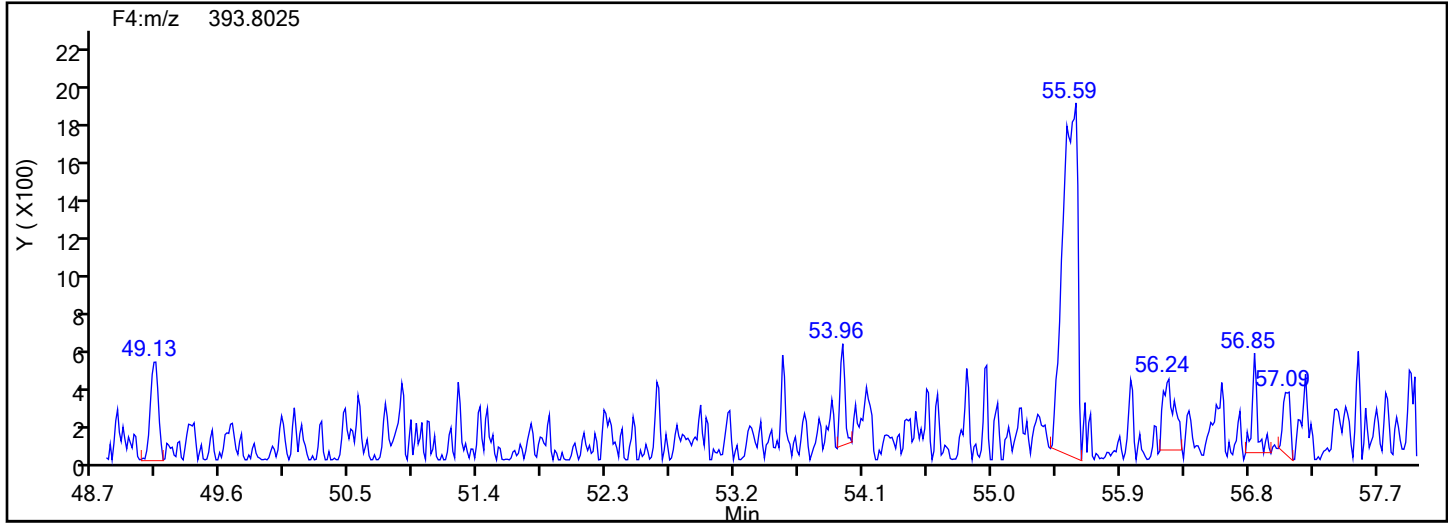


## HpPCB F4 Standards

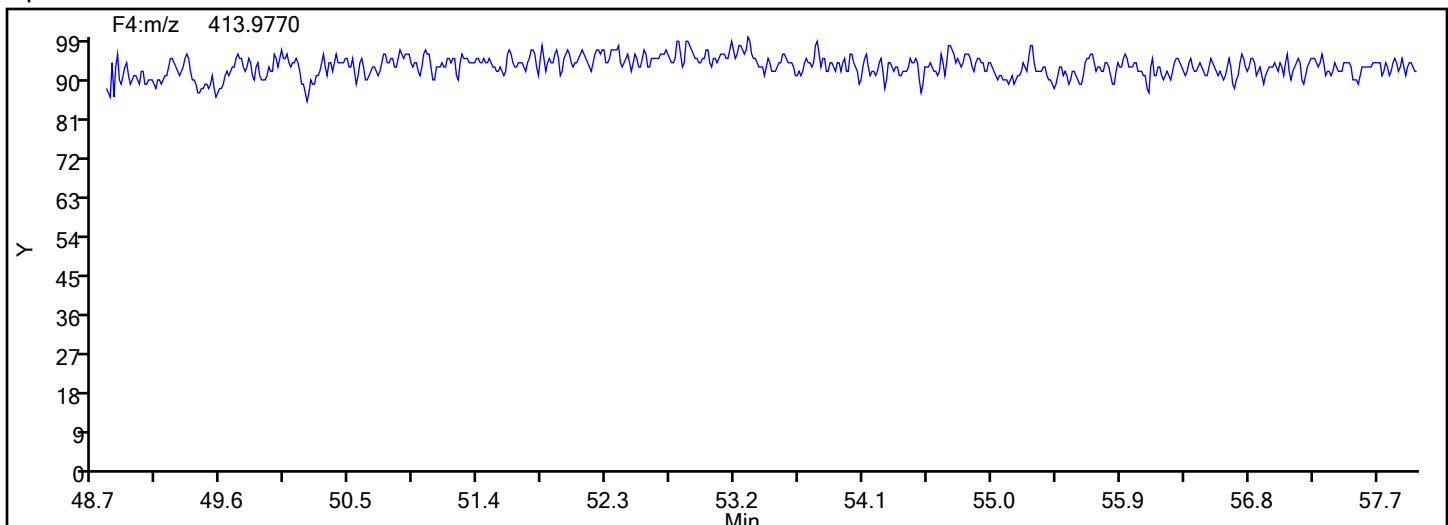


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

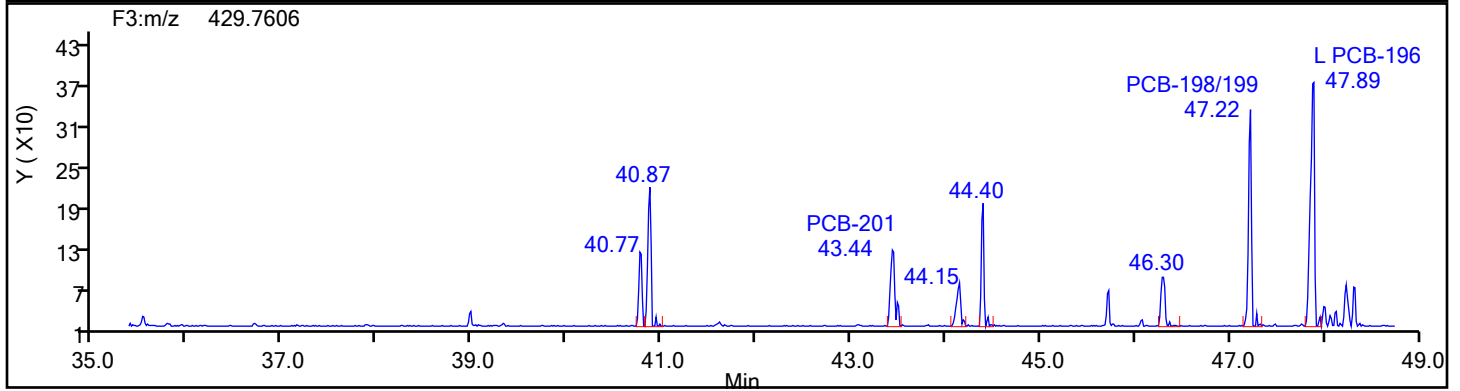
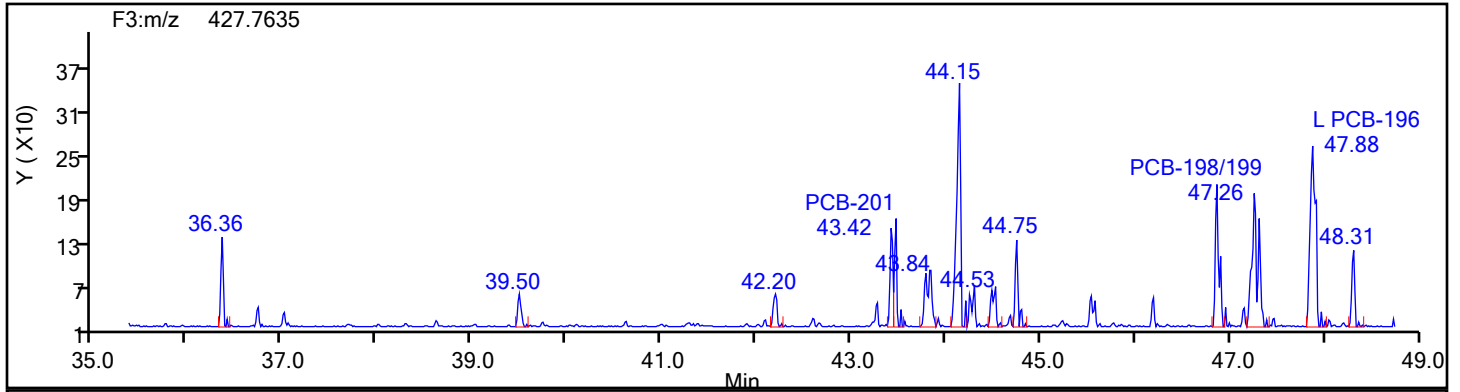


## HpPCB F4 Lock Mass

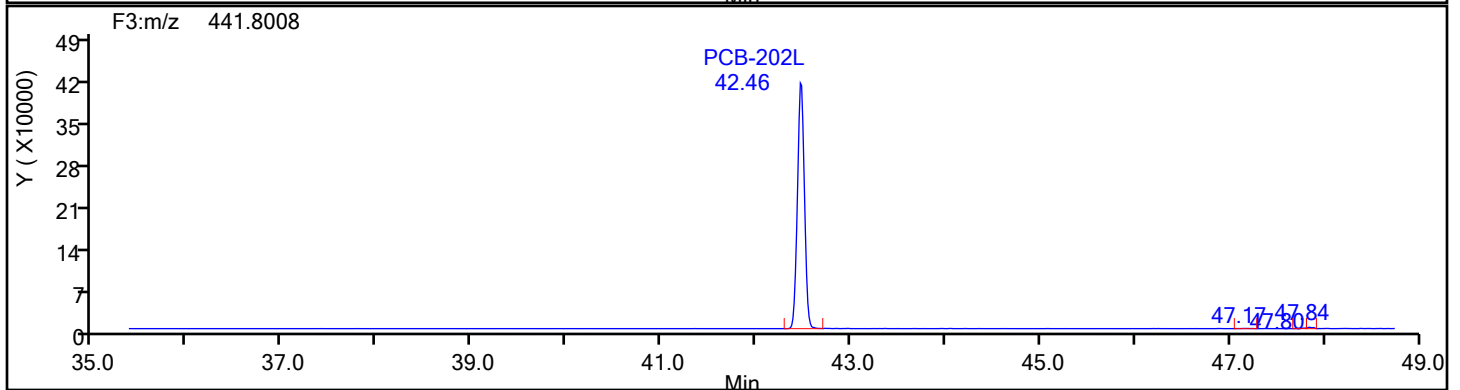
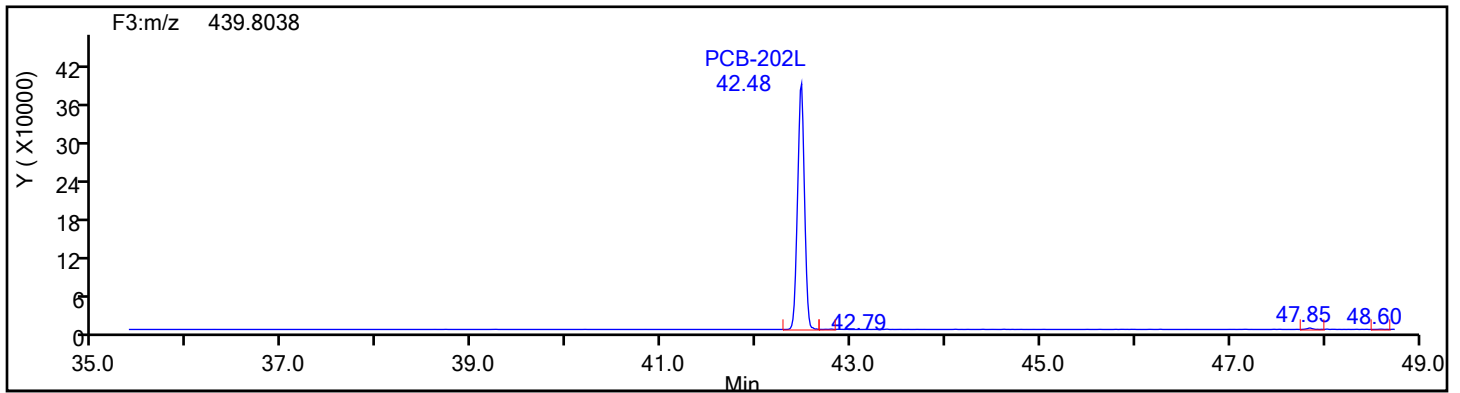


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

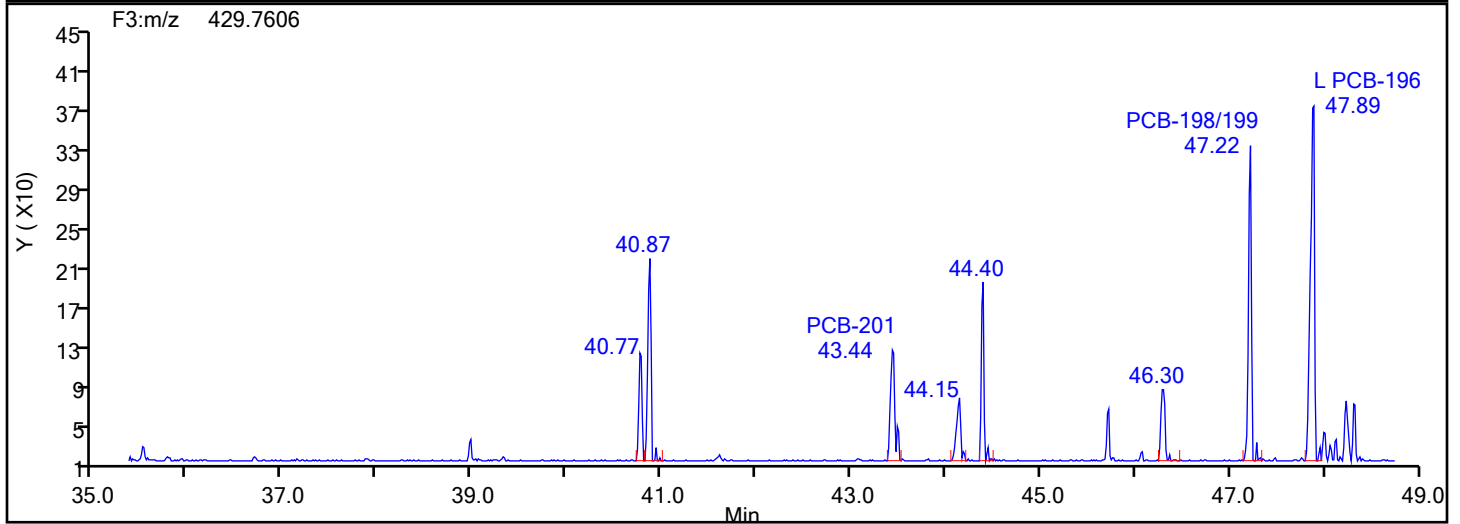
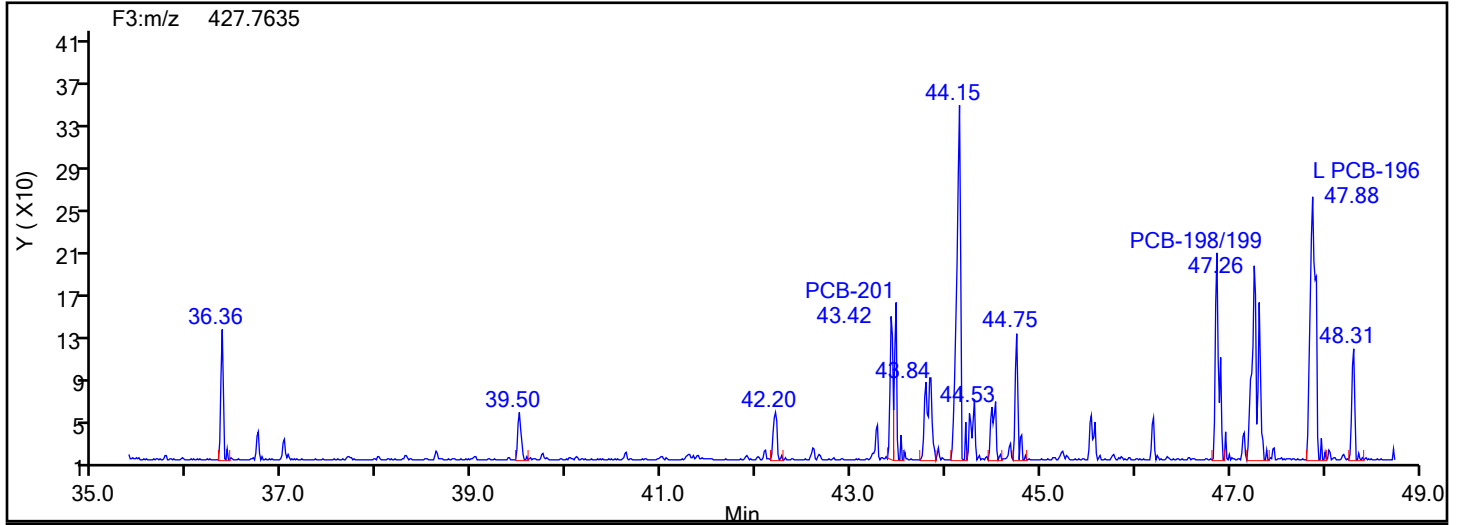


## OcPCB F3 Standards

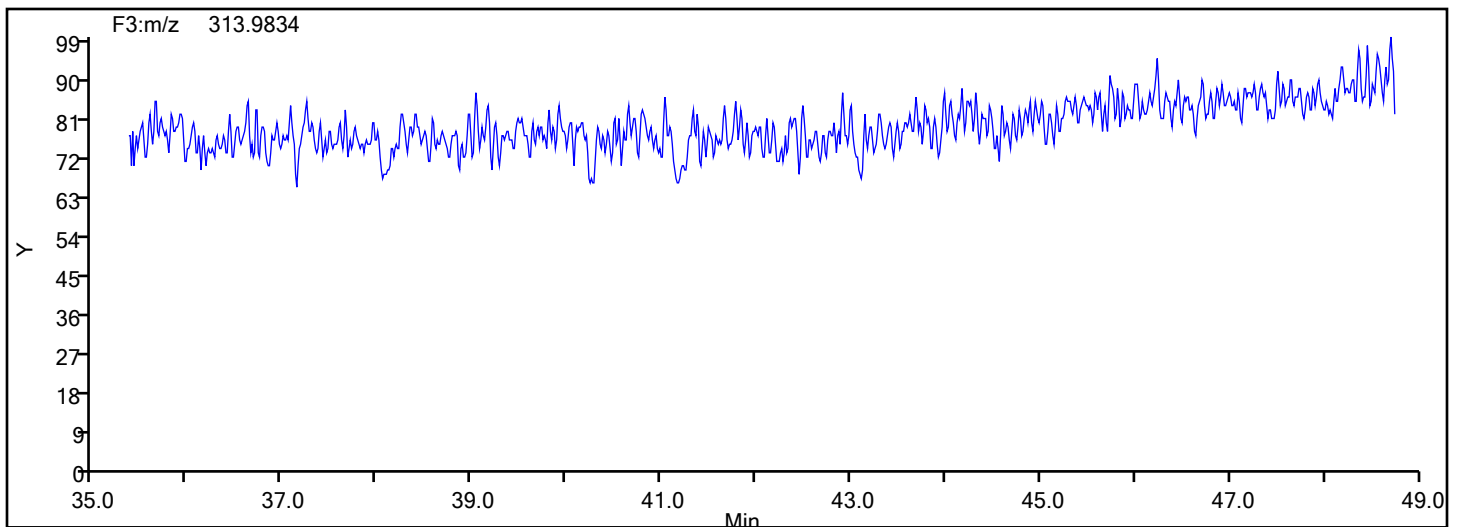


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

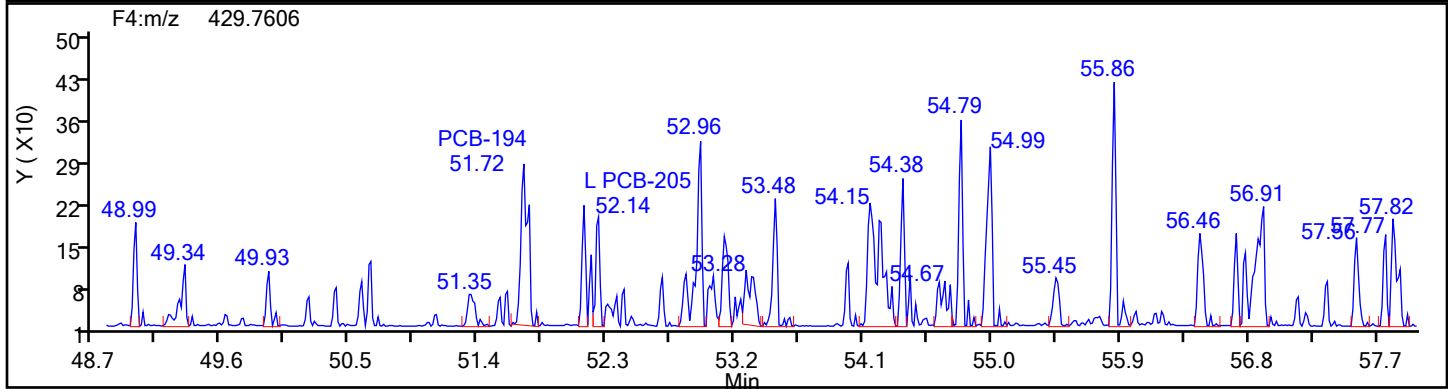
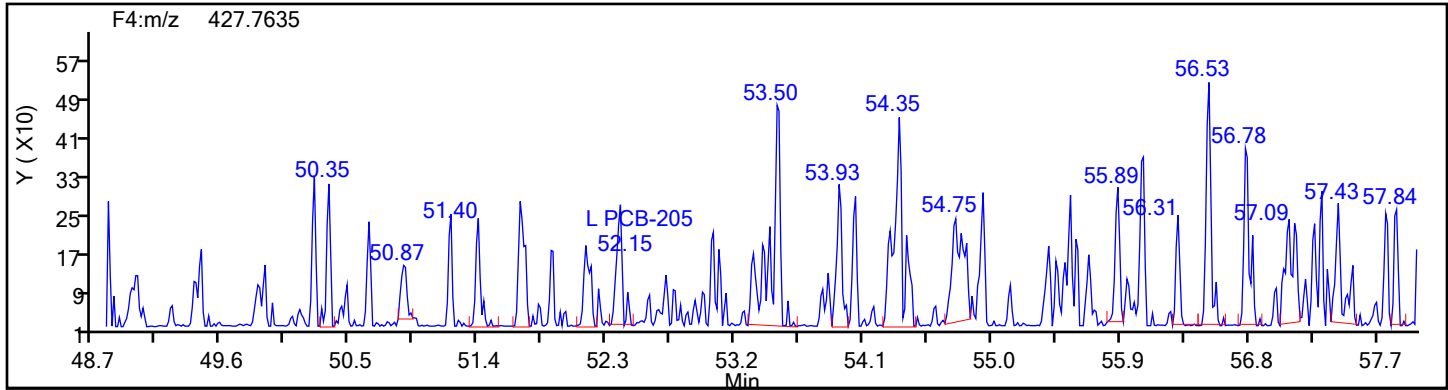


## OcPCB F3 Lock Mass

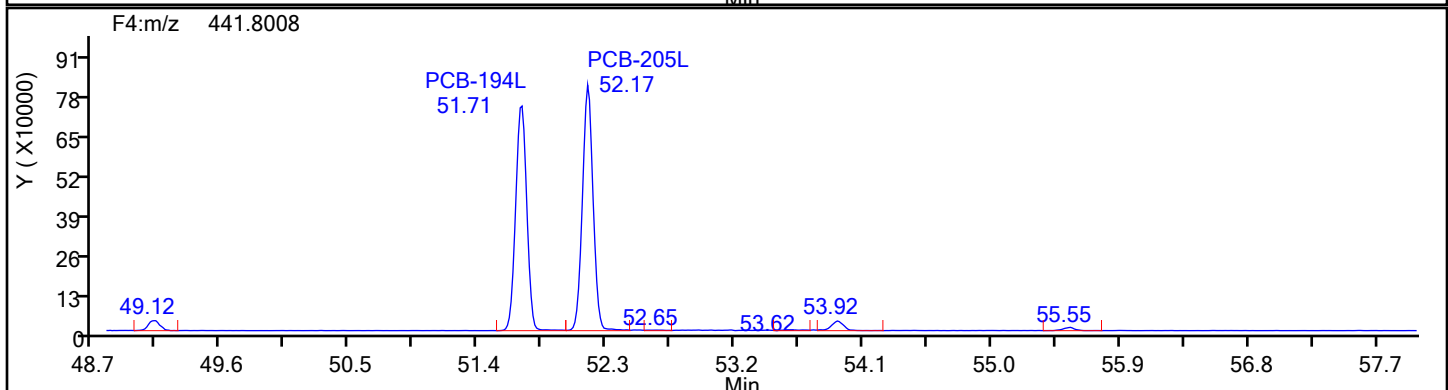
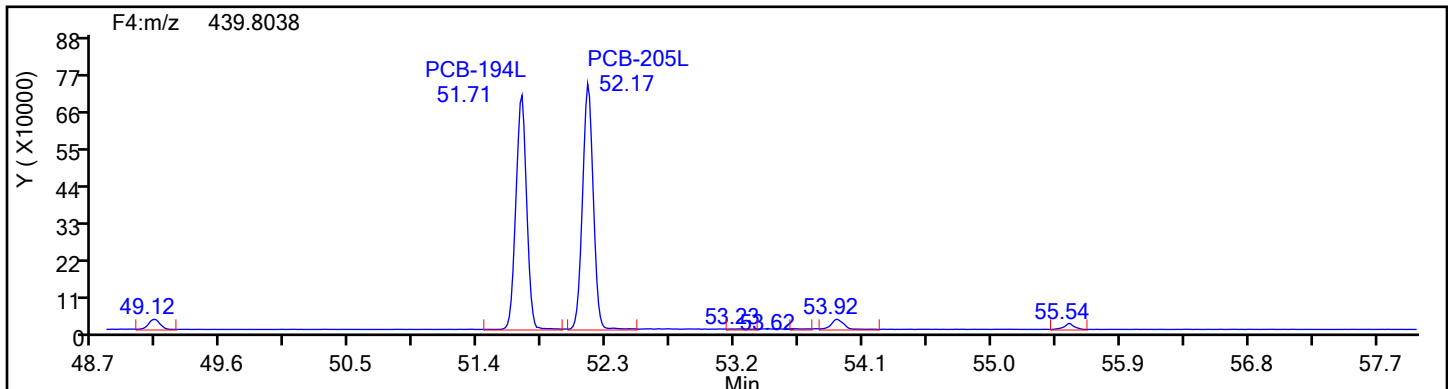


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

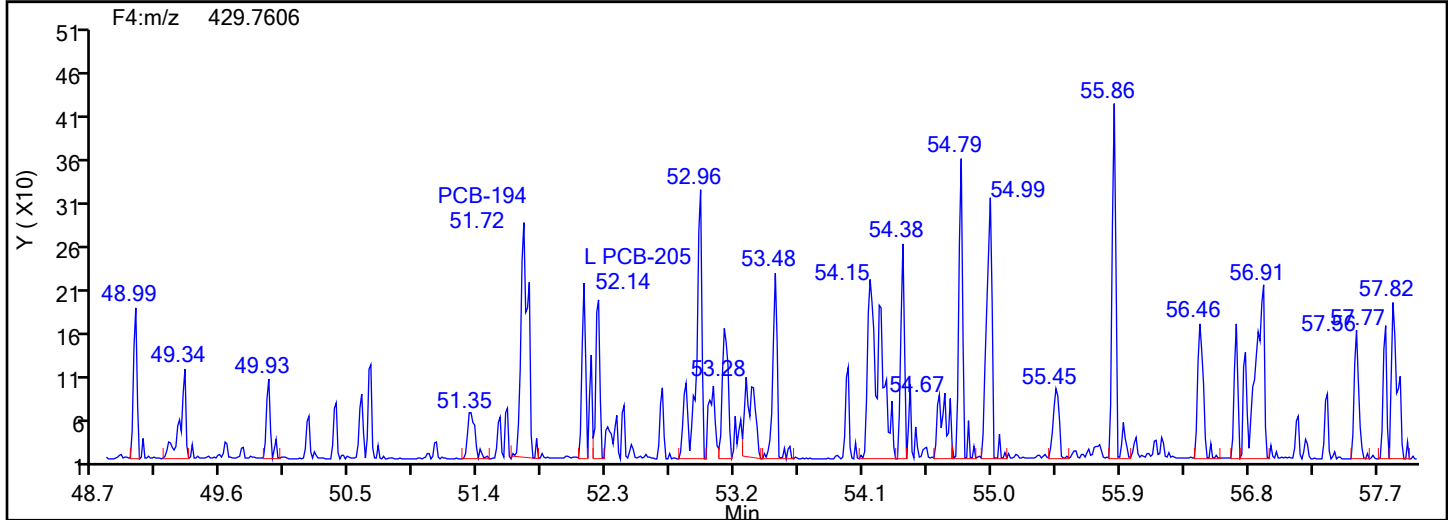
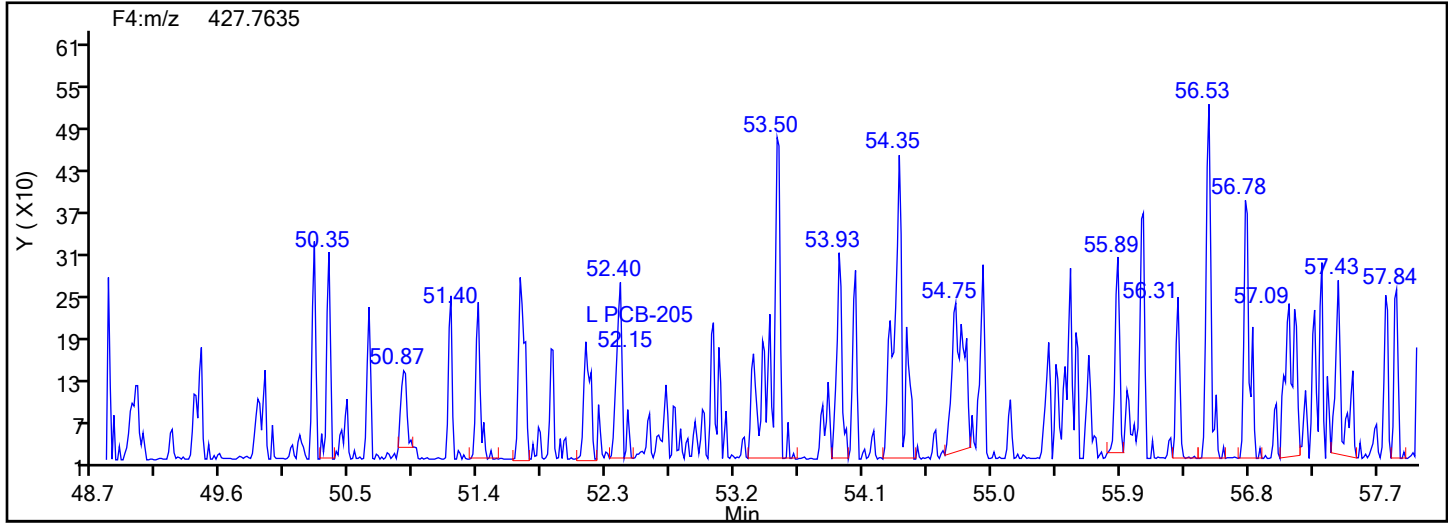


## OcPCB F4 Standards

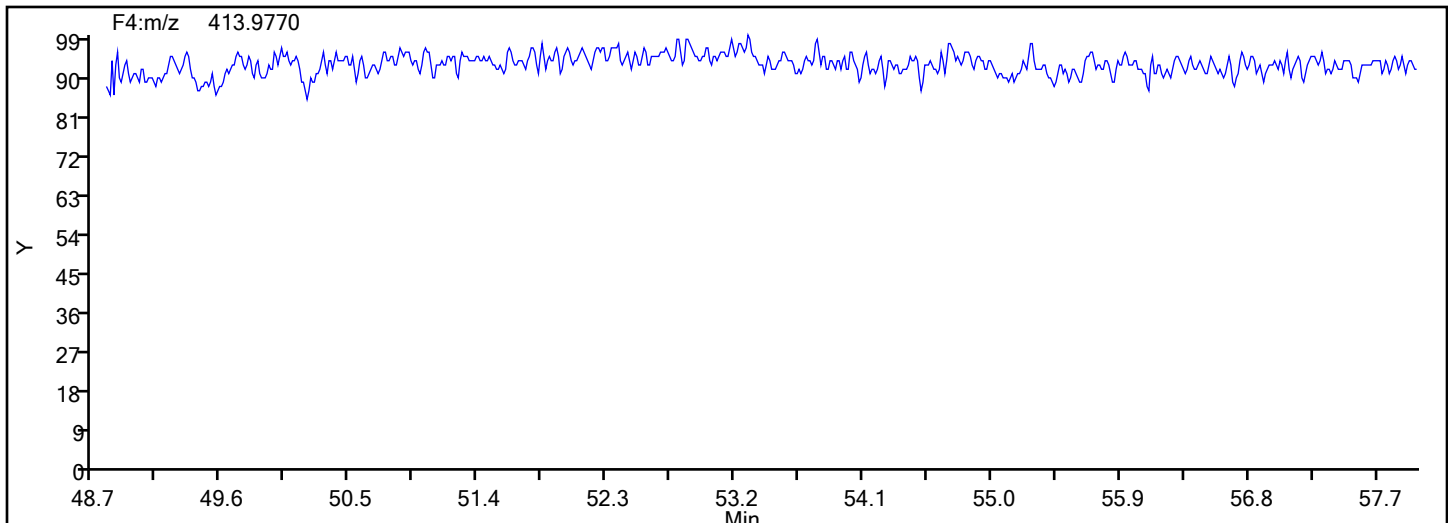


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4



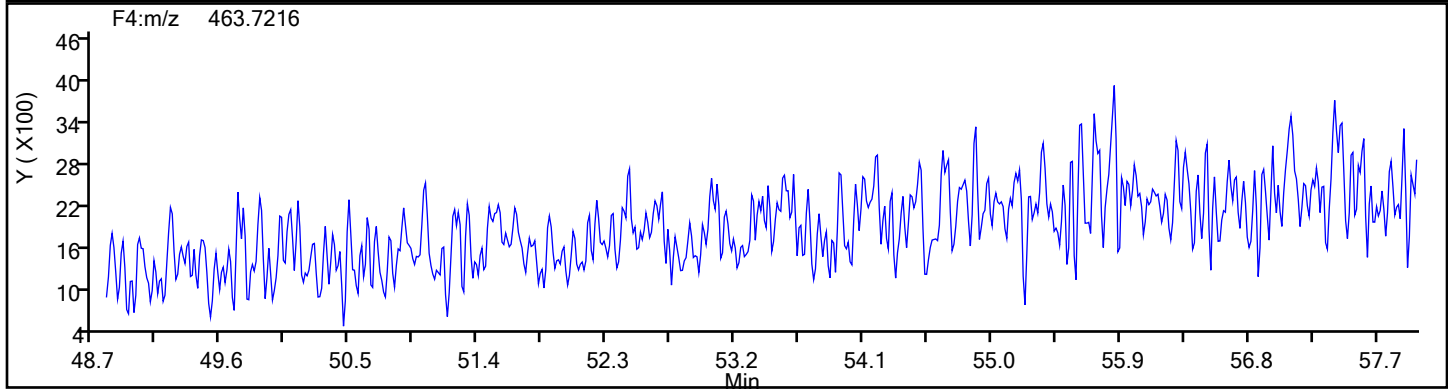
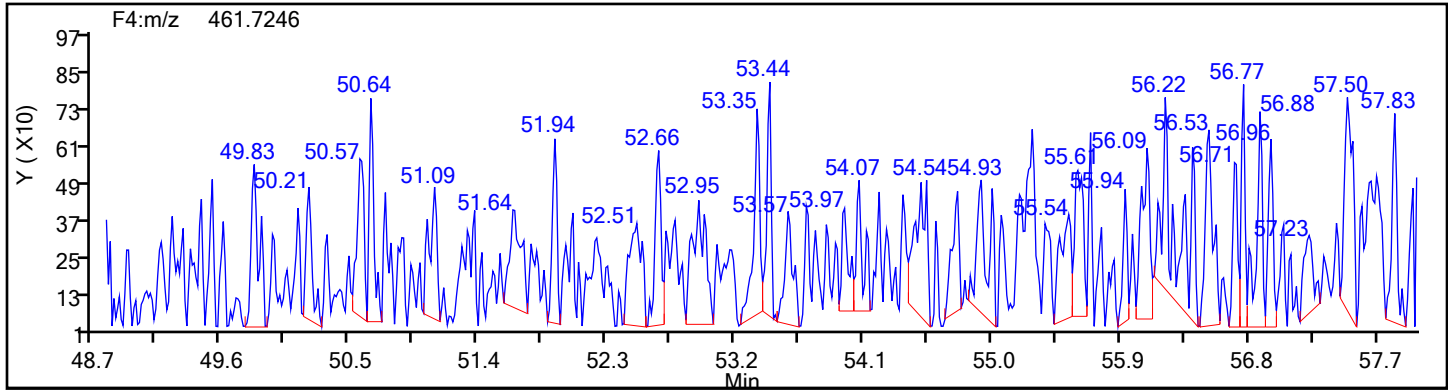
## OcPCB F4 Lock Mass



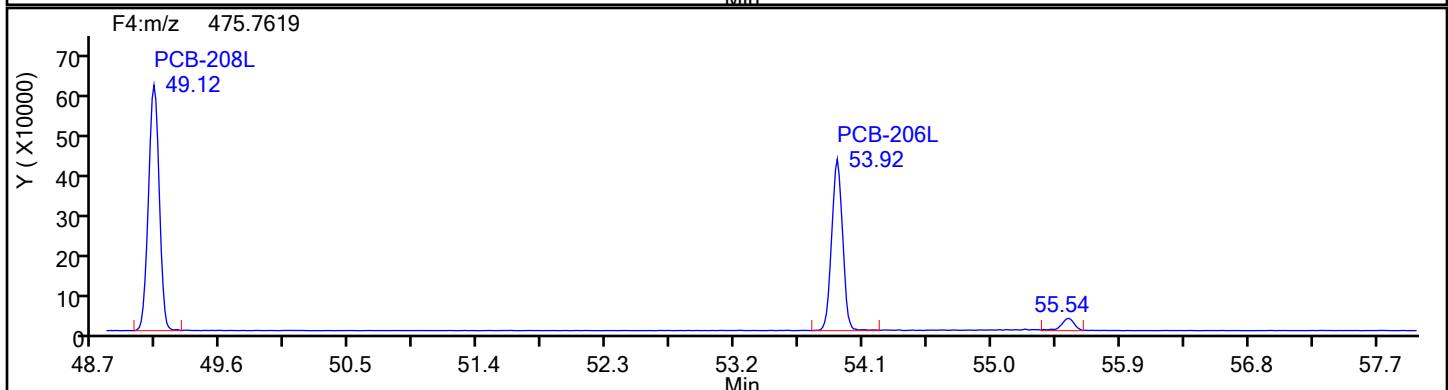
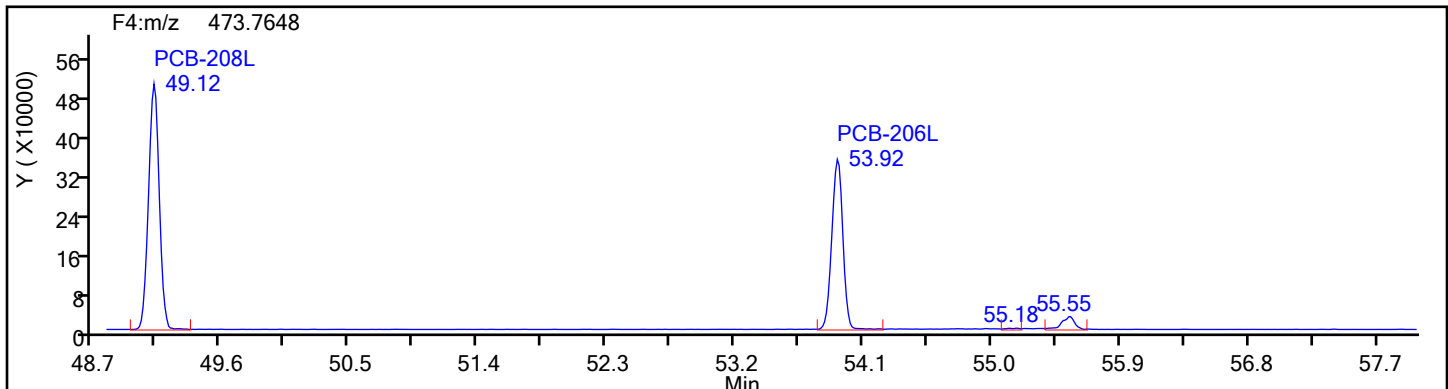


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

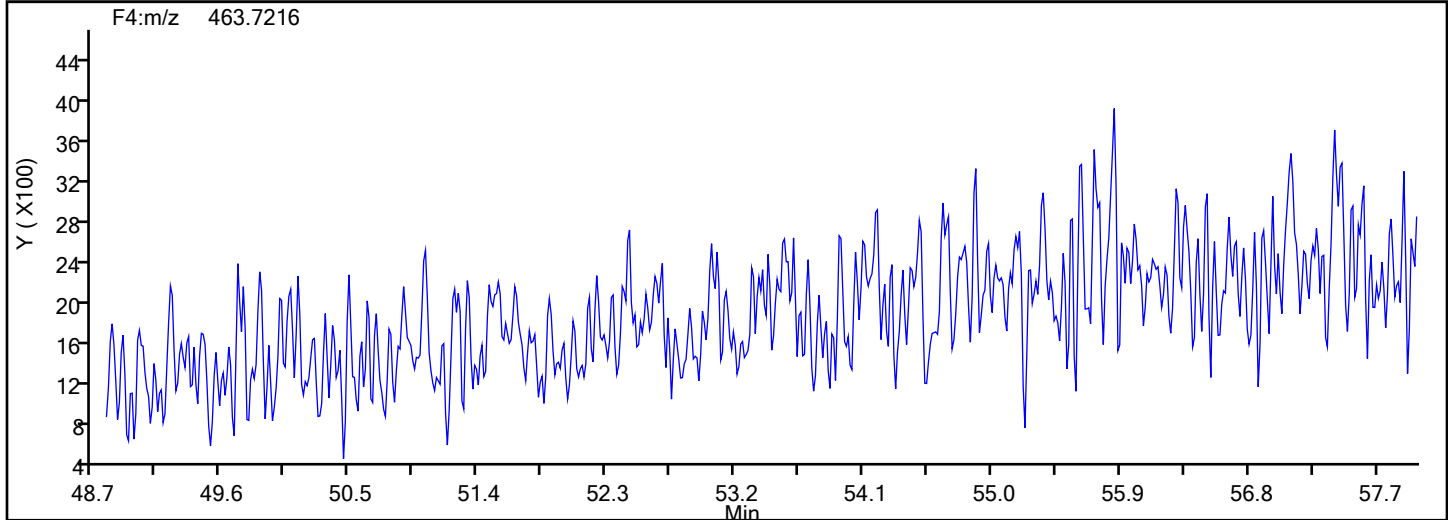
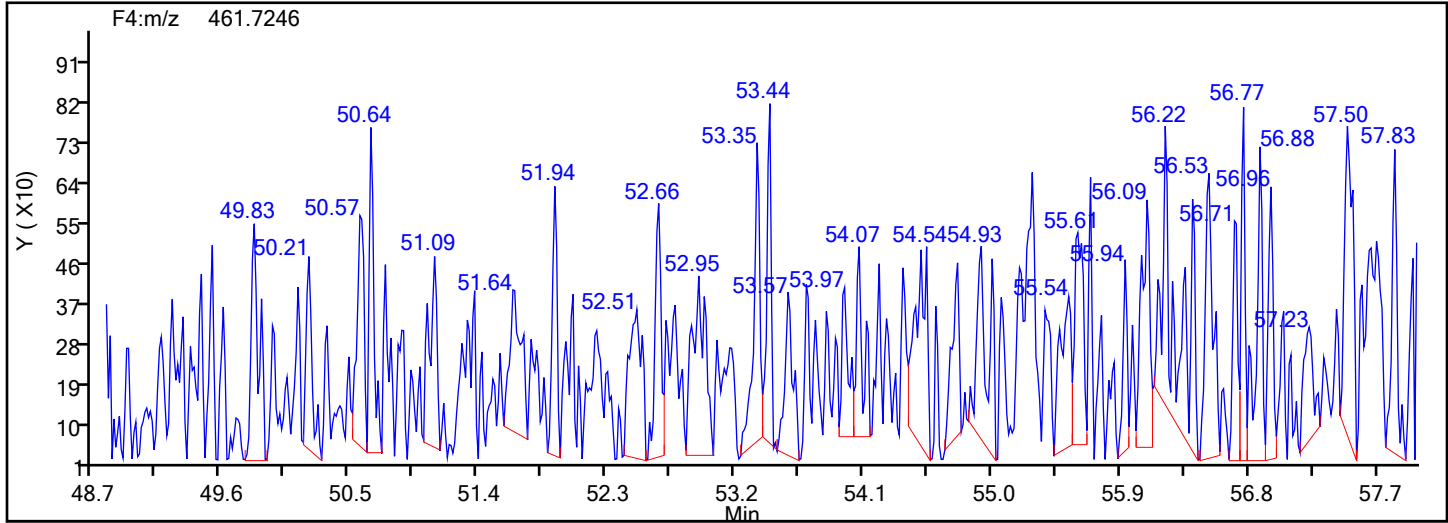


## NoPCB F4 Standards

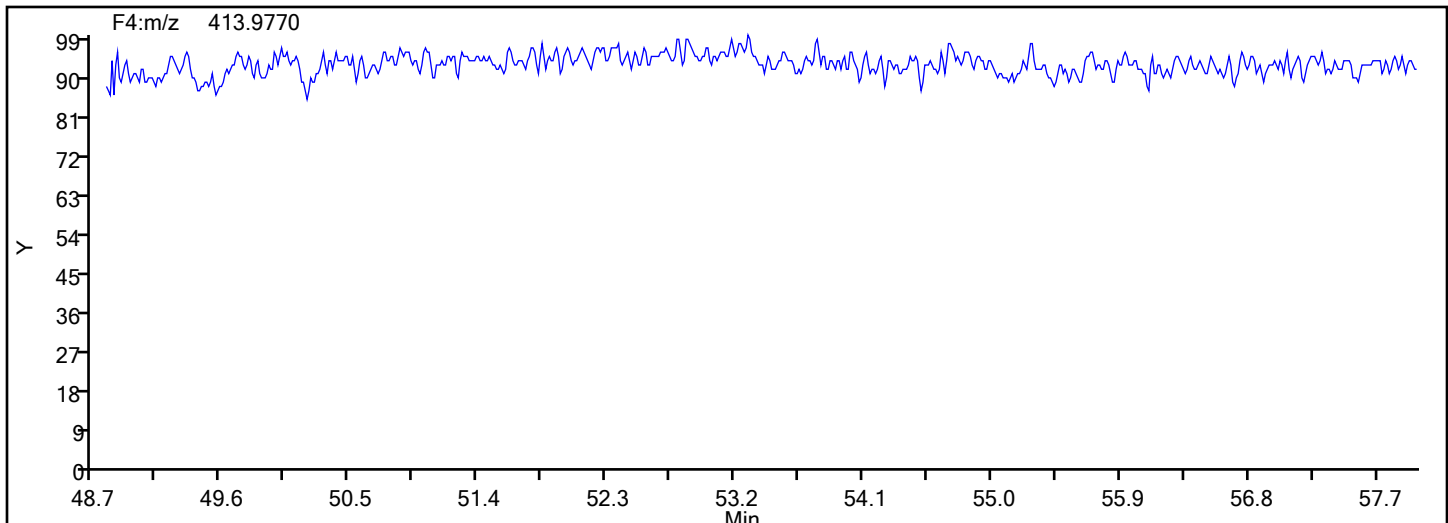


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

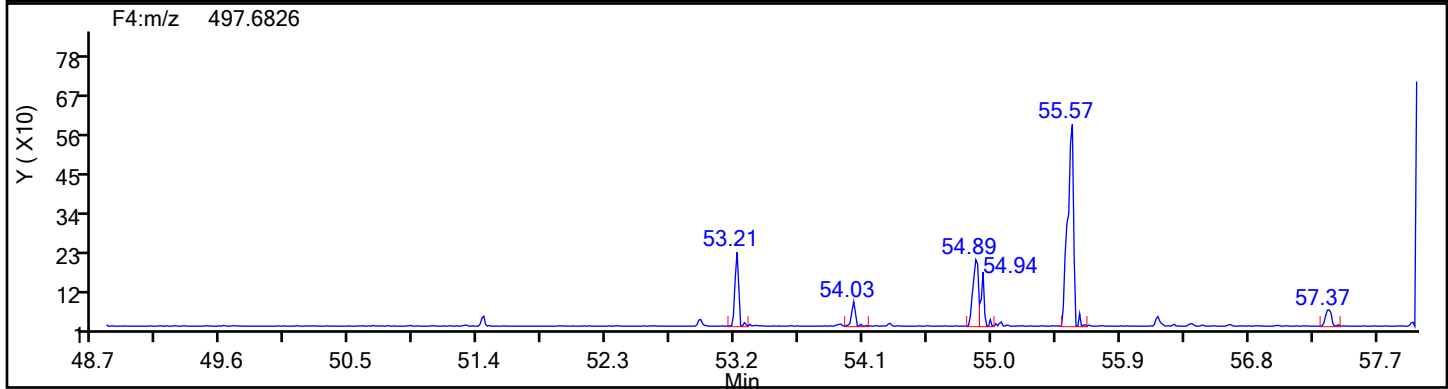
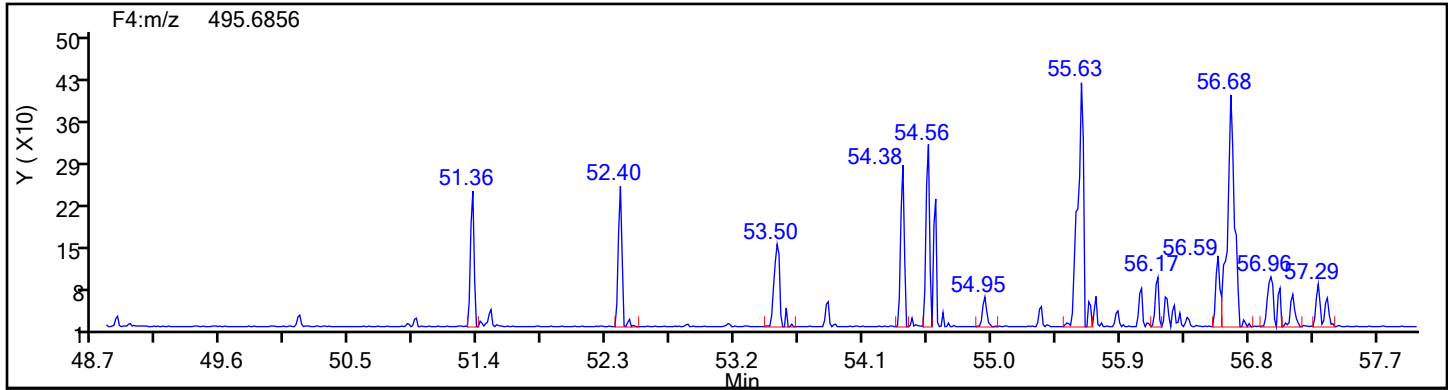


## NoPCB F4 Lock Mass

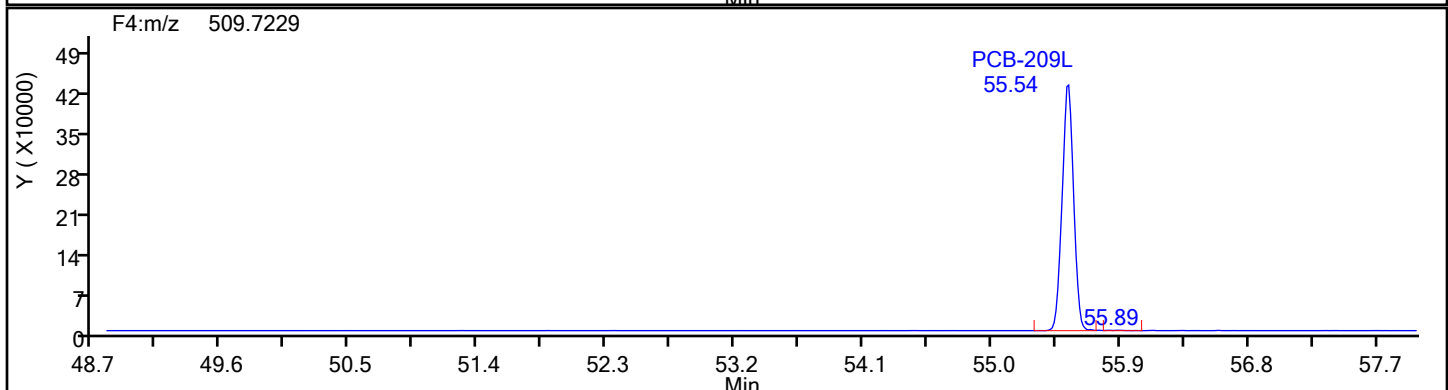
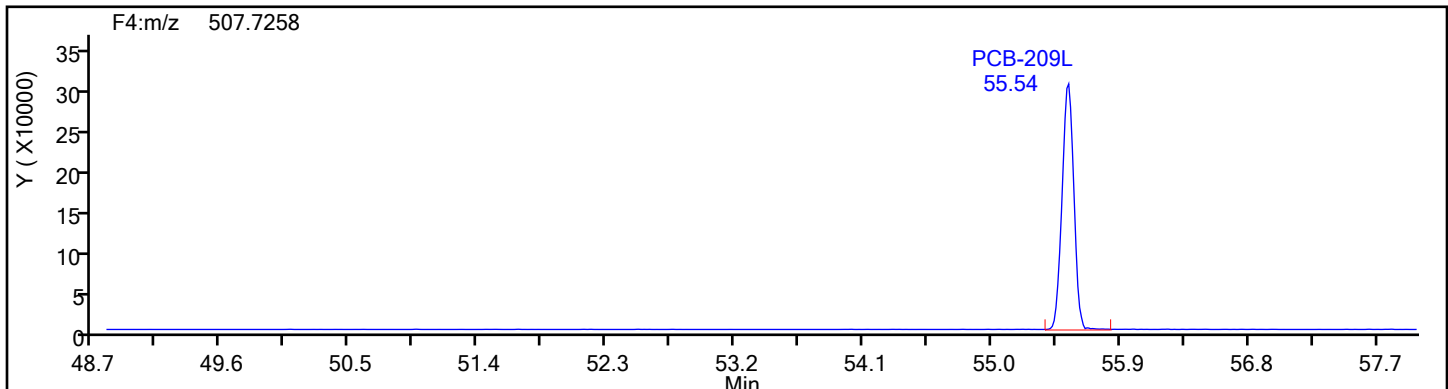


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4

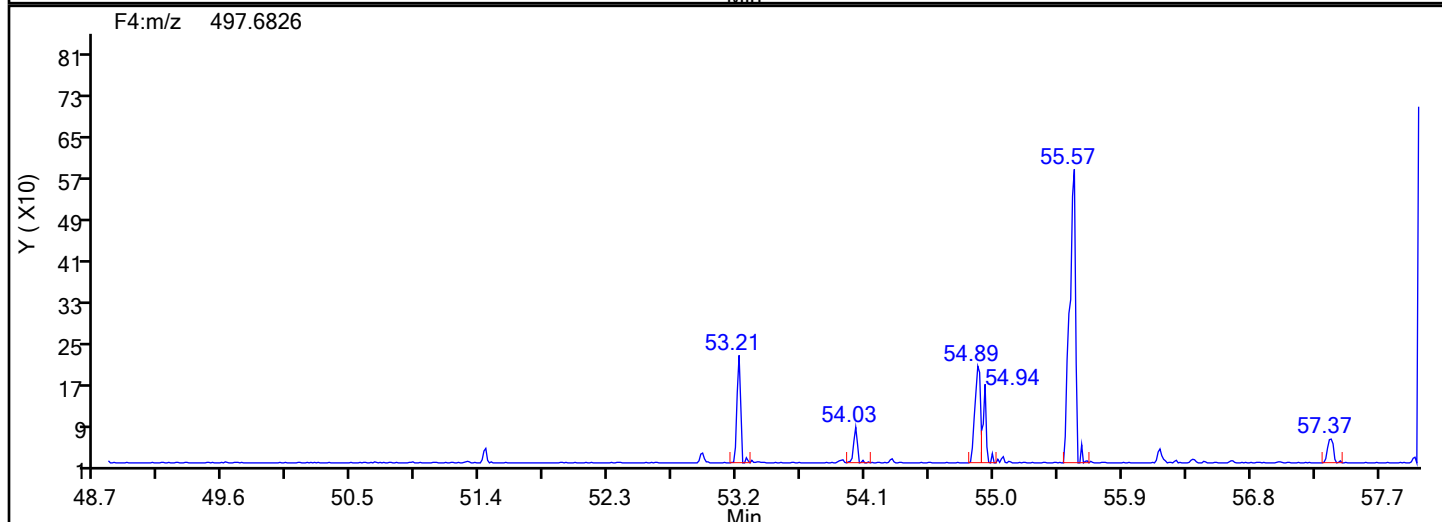
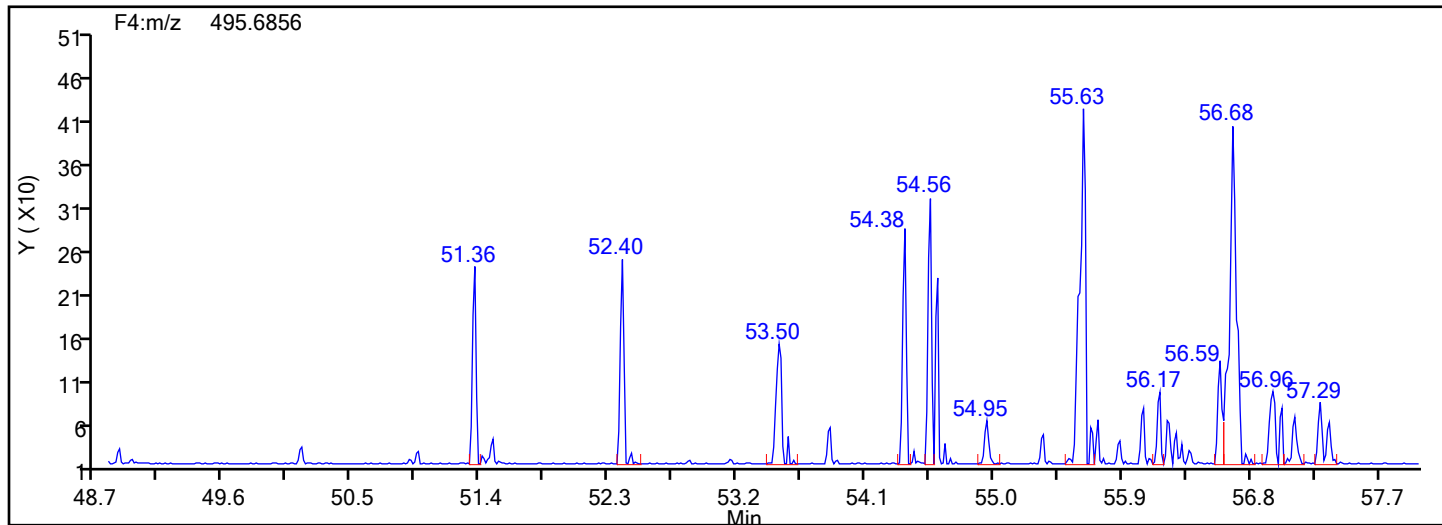


## DePCB F4 Standards

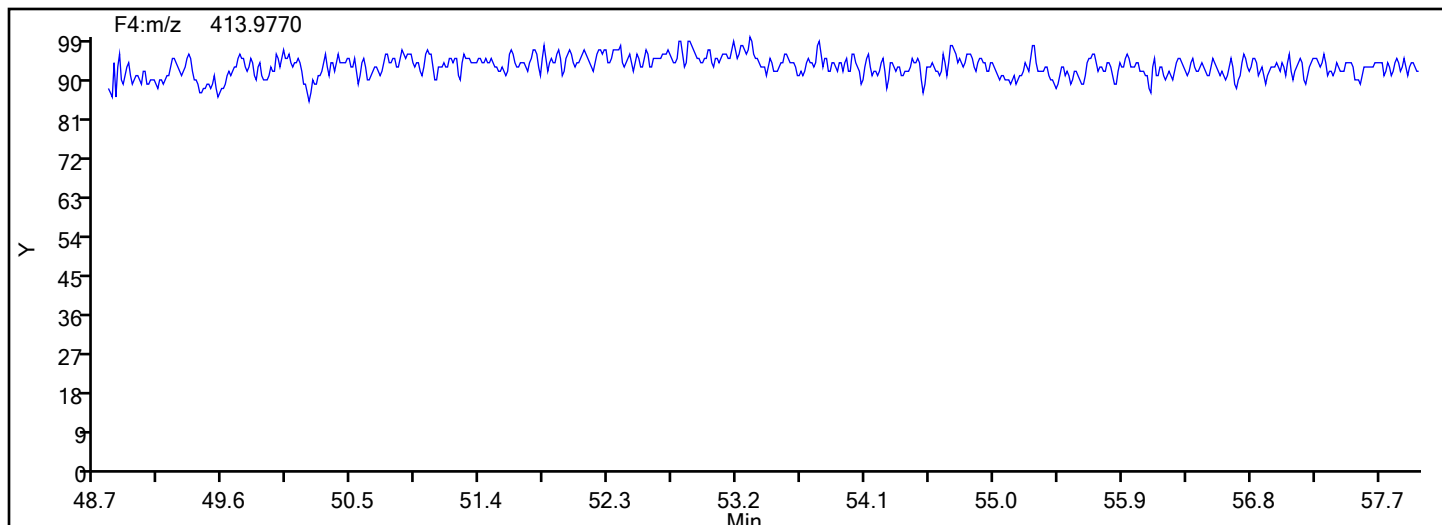


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-1-c.d  
Injection Date: 28-Jun-2024 04:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Worklist#: 88205 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-1-c.d  
Lims ID: 140-36940-A-1-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 1-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 04:00:00 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-009  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 12:03:38 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 12:03:38

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	30.0	90.13
PCB-28L	100.0	80.5	80.54
PCB-79L	33.3	33.2	99.53
PCB-95L	33.3	34.6	103.87
PCB-111L	100.0	86.3	86.34
PCB-153L	33.3	30.1	90.16
PCB-178L	100.0	84.3	84.27

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>2-COMBINED</u>	Lab Sample ID: <u>140-36940-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-2-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 18:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 05:01</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	1.35	B	0.600	0.132	0.0231
37680-65-2	PCB-18	0.379	J S C B	0.600	0.285	0.00472
7012-37-5	PCB-28	0.635	C20 B	0.600	0.252	0.0103
41464-39-5	PCB-44	2.69	C	0.900	0.390	0.0180
35693-99-3	PCB-52	0.554		0.300	0.132	0.0190
32598-10-0	PCB-66	0.129	J	0.300	0.120	0.0139
32598-13-3	PCB-77	0.0468	J q	0.300	0.126	0.0160
70362-50-4	PCB-81	ND		0.300	0.0960	0.0163
37680-73-2	PCB-101	0.185	J C90	0.900	0.390	0.00678
32598-14-4	PCB-105	0.0313	J	0.300	0.102	0.0110
74472-37-0	PCB-114	ND		0.300	0.165	0.0124
31508-00-6	PCB-118	0.0615	J B	0.300	0.183	0.0105
65510-44-3	PCB-123	ND		0.300	0.171	0.0131
57465-28-8	PCB-126	ND		0.300	0.123	0.0126
38380-07-3	PCB-128	0.00391	J q C	0.600	0.204	0.00191
35065-28-2	PCB-138	0.0475	J q C129 B	1.20	0.510	0.00199
35065-27-1	PCB-153	0.0544	J q C	0.600	0.249	0.00172
38380-08-4	PCB-156	0.00940	J q C	0.600	0.255	0.00211
69782-90-7	PCB-157	0.00940	J q C156	0.600	0.255	0.00211
52663-72-6	PCB-167	ND		0.300	0.180	0.00135
32774-16-6	PCB-169	0.00369	J q B	0.300	0.123	0.00141
35065-30-6	PCB-170	ND		0.300	0.132	0.000154
35065-29-3	PCB-180	0.0326	J C B	0.600	0.204	0.000123
52663-68-0	PCB-187	0.0175	J q	0.300	0.126	0.000130
39635-31-9	PCB-189	ND		0.300	0.147	0.00284
52663-78-2	PCB-195	ND		0.300	0.159	0.00236
40186-72-9	PCB-206	ND		0.300	0.171	0.0372
2051-24-3	PCB-209	0.000789	J q B	0.300	0.138	0.000470

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>2-COMBINED</u>	Lab Sample ID: <u>140-36940-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-2-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 18:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 05:01</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	62		20-145
208263-77-8	PCB-3L	87		20-145
234432-86-1	PCB-4L	69		20-145
208263-67-6	PCB-15L	74		20-145
234432-87-2	PCB-19L	109		20-145
208263-79-0	PCB-37L	90		20-145
234432-88-3	PCB-54L	141		20-145
105600-23-5	PCB-77L	88		20-145
208461-24-9	PCB-81L	88		20-145
234432-89-4	PCB-104L	87		20-145
208263-62-1	PCB-105L	93		20-145
208263-63-2	PCB-114L	86		20-145
104130-40-7	PCB-118L	91		20-145
208263-64-3	PCB-123L	85		20-145
208263-65-4	PCB-126L	92		20-145
234432-90-7	PCB-155L	85		20-145
208263-68-7	PCB-156L	89	C	20-145
235416-30-5	PCB-157L	89	C156	20-145
208263-69-8	PCB-167L	88		20-145
208263-70-1	PCB-169L	86		20-145
160901-80-4	PCB-170L	91		20-145
234432-91-8	PCB-188L	86		20-145
208263-73-4	PCB-189L	96		20-145
105600-26-8	PCB-202L	86		20-145
234446-64-1	PCB-205L	90		20-145
208263-75-6	PCB-206L	83		20-145
234432-92-9	PCB-208L	89		20-145
105600-27-9	PCB-209L	84		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-2  
2-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-2-c.d  
Analysis Method: 23 Date Collected: 05/15/2024 18:45  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 05:01  
Con. Extract Vol.: 30(mL) Dilution Factor: 1  
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25(mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88205 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	84		20-130
235416-29-2	PCB-111L	89		20-130
232919-67-4	PCB-178L	87		20-130
STL01600	PCB-8L	88		70-130
STL01603	PCB-79L	102		70-130
STL01604	PCB-95L	110		70-130
STL01606	PCB-153L	96		70-130



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-2-c.d  
Lims ID: 140-36940-A-2-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 05:01:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-010  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 12:57:24 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 12:57:24

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					173.8	173.8	0.1935	0.1935		
D PCB-1L	11:40	7043193	3.20	1.6108	61.8	61.8	0.4028	0.4028	61.76	
D PCB-3L	13:49	9742177	3.33	1.5891	86.6	86.6	0.4083	0.4083	86.59	
PCB-1	11:40	2405705	3.19	1.2191	28.0	28.0	0.2121	0.2121		
PCB-2	13:39	8755861	3.15	1.1805	88.4	88.4	0.1963	0.1963		
PCB-3	13:50	6826550	3.11	1.2206	57.4	57.4	0.1720	0.1720		
S Total Dichlorobiphenyls					200.9	200.9	0.0889	0.0889		
D PCB-4L	14:04	3153164	1.64	0.6475	68.8	68.8	0.2823	0.2823	68.78	
* PCB-9L	16:03	7079998	1.60		100.0	100.0				
\$ PCB-8L	16:55	1559647	1.64	1.2066	29.4	29.4	0.2836	0.2836	88.19	a
D PCB-15L	20:05	5641011	1.62	1.0789	73.8	73.8	0.1694	0.1694	73.85	
PCB-4	14:05	98231	1.66	1.2818	2.430	2.430	0.1005	0.1005		
PCB-10	14:15	41819	1.47	1.3149	0.7233	0.7233	0.0931	0.0931		
PCB-9	16:04	52367	1.52	1.4224	0.8373	0.8373	0.0860	0.0860		
PCB-7	16:14	285826	1.64	1.4134	4.599	4.599	0.0866	0.0866		
PCB-6	16:30	119227	1.47	1.5421	1.758	1.758	0.0794	0.0794		a
PCB-5	16:48	43905	1.64	1.3395	0.7455	0.7455	0.0914	0.0914		
PCB-8	16:56	315338	1.63	1.5889	4.514	4.514	0.0770	0.0770		a
PCB-14	18:40	60862	1.39	1.4025	0.9869	0.9869	0.0873	0.0873		M
PCB-11	19:29	9937619	1.61	1.2951	174.5	174.5	0.0945	0.0945		
PCB-12	19:48	437323	1.72	1.3358	7.446	7.446	0.0916	0.0916		
PCB-13 (C12)	19:48	437323	1.72	1.3358	7.446	7.446	0.0916	0.0916		
PCB-15	20:06	171731	1.58	1.2903	2.359	2.359	0.0903	0.0903		
S Total Trichlorobiphenyls					14.4	14.2	0.0295	0.0295		RQ
D PCB-19L	17:14	1929767	1.08	0.6285	108.9	108.9	0.6300	0.6300	109	
* PCB-32L	20:32	2818908	1.12		100.0	100.0				
* PCB-31L	22:45	16971578	1.04		100.0	100.0				
\$ PCB-28L	23:02	14887157	1.05	1.0494	83.6	83.6	0.1008	0.1008	83.59	
D PCB-37L	27:00	13424697	1.06	0.8749	90.4	90.4	0.1210	0.1210	90.41	
PCB-19	17:14	3298	1.04	1.2809	0.1769	0.1334	0.0217	0.0217		RQ
PCB-18	19:14	43027	0.94	1.7652	1.263	1.263	0.0157	0.0157		M
PCB-30 (C18)	19:14	43027	0.94	1.7652	1.263	1.263	0.0157	0.0157		M
PCB-17	19:36	30261	1.04	1.2430	1.262	1.262	0.0224	0.0224		Ma
PCB-27	19:48	5714	0.91	1.8327	0.1616	0.1616	0.0152	0.0152		M

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:56	1719	1.04	1.6777	0.0985	0.0531	0.0166	0.0166		RQa
PCB-16	20:03	16710	1.04	1.1286	0.8968	0.7673	0.0246	0.0246		RQa
PCB-32	20:35	18607	1.09	1.8324	0.5262	0.5262	0.0152	0.0152		M
PCB-34	21:43						0.0355	0.0355		
PCB-23	21:56						0.0371	0.0371		RQU
PCB-26	22:13	65007	1.04	1.1255	0.4705	0.4303	0.0356	0.0356		RQ
PCB-29 (C26)	22:13	65007	1.04	1.1255	0.4705	0.4303	0.0356	0.0356		RQ
PCB-25	22:27	45861	1.07	1.2728	0.2684	0.2684	0.0315	0.0315		
PCB-31	22:46	286930	0.98	1.1532	1.853	1.853	0.0348	0.0348		
PCB-20	23:03	333009	1.07	1.1718	2.117	2.117	0.0342	0.0342		
PCB-28 (C20)	23:03	333009	1.07	1.1718	2.117	2.117	0.0342	0.0342		
PCB-21	23:18	226933	0.89	1.0746	1.573	1.573	0.0373	0.0373		
PCB-33 (C21)	23:18	226933	0.89	1.0746	1.573	1.573	0.0373	0.0373		
PCB-22	23:42	103183	0.89	1.1932	0.6441	0.6441	0.0336	0.0336		M
PCB-36	25:13	64421	1.02	1.1071	0.4335	0.4335	0.0362	0.0362		
PCB-39	25:35	18036	1.05	1.1581	0.1160	0.1160	0.0346	0.0346		
PCB-38	26:07						0.0370	0.0370		
PCB-35	26:37	302840	1.02	1.1297	1.997	1.997	0.0355	0.0355		
PCB-37	27:01	86399	0.95	1.1435	0.5628	0.5628	0.0351	0.0351		
S Total Tetrachlorobiphenyls					20.7	20.5	0.0529	0.0529		RQ
D PCB-54L	20:23	2212406	0.79	0.5562	141.1	141.1	0.1478	0.1478	141	
* PCB-52L	24:51	8592523	0.81		100.0	100.0				
\$ PCB-79L	32:44	3310427	0.80	1.0018	34.0	34.0	0.2263	0.2263	102	
D PCB-81L	33:44	9430208	0.81	1.2470	88.0	88.0	0.1827	0.1827	88.01	
D PCB-77L	34:18	10031634	0.81	1.3212	88.4	88.4	0.1724	0.1724	88.37	
PCB-54	20:18						0.004902	0.004902		
PCB-50	22:31	12181	0.77	0.8578	0.1845	0.1459	0.0679	0.0679		RQ
PCB-53 (C50)	22:31	12181	0.77	0.8578	0.1845	0.1459	0.0679	0.0679		RQ
PCB-45	23:14	361027	0.79	0.8264	4.489	4.489	0.0705	0.0705		
PCB-51 (C45)	23:14	361027	0.79	0.8264	4.489	4.489	0.0705	0.0705		
PCB-46	23:26						0.0820	0.0820		
PCB-52	24:52	165300	0.76	0.9194	1.848	1.848	0.0633	0.0633		a
PCB-43	24:59						0.0564	0.0564		
PCB-73 (C43)	24:59						0.0564	0.0564		
PCB-49	25:21	67313	0.75	1.0685	0.6474	0.6474	0.0545	0.0545		
PCB-69 (C49)	25:21	67313	0.75	1.0685	0.6474	0.6474	0.0545	0.0545		
PCB-48	25:39	22249	0.75	0.8399	0.2722	0.2722	0.0693	0.0693		a
PCB-44	25:54	850066	0.78	0.9731	8.977	8.977	0.0598	0.0598		a
PCB-47 (C44)	25:54	850066	0.78	0.9731	8.977	8.977	0.0598	0.0598		a
PCB-65 (C44)	25:54	850066	0.78	0.9731	8.977	8.977	0.0598	0.0598		a
PCB-59	26:10						0.0491	0.0491		
PCB-62 (C59)	26:10						0.0491	0.0491		
PCB-75 (C59)	26:10						0.0491	0.0491		
PCB-42	26:24	16746	0.71	0.8097	0.2125	0.2125	0.0719	0.0719		a
PCB-40	26:53	33783	0.77	0.8863	0.4285	0.3917	0.0657	0.0657		RQM
PCB-41 (C40)	26:53	33783	0.77	0.8863	0.4285	0.3917	0.0657	0.0657		RQM
PCB-71 (C40)	26:53	33783	0.77	0.8863	0.4285	0.3917	0.0657	0.0657		RQM
PCB-64	27:06	42223	0.77	1.1776	0.4044	0.3685	0.0495	0.0495		RQa
PCB-72	27:53						0.0532	0.0532		
PCB-68	28:12	148283	0.85	1.2533	1.216	1.216	0.0465	0.0465		M
PCB-57	28:36						0.0538	0.0538		
PCB-58	28:51						0.0439	0.0439		
PCB-67	29:00						0.0409	0.0409		
PCB-63	29:16						0.0518	0.0518		
PCB-61	29:37	116321	0.73	1.2612	0.9478	0.9478	0.0462	0.0462		
PCB-70 (C61)	29:37	116321	0.73	1.2612	0.9478	0.9478	0.0462	0.0462		
PCB-74 (C61)	29:37	116321	0.73	1.2612	0.9478	0.9478	0.0462	0.0462		
PCB-76 (C61)	29:37	116321	0.73	1.2612	0.9478	0.9478	0.0462	0.0462		
PCB-66	29:58	52630	0.87	1.2583	0.4298	0.4298	0.0463	0.0463		
PCB-55	30:06						0.0440	0.0440		
PCB-56	30:36	24182	0.77	1.2334	0.2342	0.2015	0.0472	0.0472		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:50	9734	0.77	1.1230	0.1548	0.0891	0.0519	0.0519		RQ
PCB-80	31:13						0.0440	0.0440		
PCB-79	32:45	9017	0.83	1.4368	0.0645	0.0645	0.0405	0.0405		
PCB-78	33:18						0.0501	0.0501		
PCB-81	33:44						0.0543	0.0543		
PCB-77	34:18	16960	0.77	1.0836	0.1799	0.1560	0.0534	0.0534		RQ
S Total Pentachlorobiphenyls					3.736	3.444	0.0284	0.0284		RQ
D PCB-104L	25:47	5448650	1.61	1.2161	86.8	86.8	0.0376	0.0376	86.80	
\$ PCB-95L	28:45	1441408	1.62	0.7218	36.7	36.7	0.0565	0.0565	110	
* PCB-101L	31:40	5162178	1.62		100.0	100.0				
\$ PCB-111L	34:20	6297528	1.58	1.3699	89.1	89.1	0.0334	0.0334	89.05	
D PCB-123L	36:17	10151883	1.59	0.9731	84.9	84.9	0.9829	0.9829	84.85	
D PCB-118L	36:37	11243832	1.61	1.0102	90.5	90.5	0.9469	0.9469	90.54	
D PCB-114L	37:08	10538001	1.59	0.9949	86.2	86.2	0.9615	0.9615	86.16	
D PCB-105L	37:48	10904939	1.59	0.9514	93.2	93.2	1.005	1.005	93.23	
* PCB-127L	39:15	12294207	1.58		100.0	100.0				
D PCB-126L	40:52	10729362	1.59	0.9439	92.5	92.5	1.013	1.013	92.46	
PCB-104	25:47						0.0214	0.0214		
PCB-96	26:10						0.0197	0.0197		
PCB-103	28:04						0.0247	0.0247		
PCB-94	28:18						0.0282	0.0282		
PCB-95	28:47	31239	1.45	0.8033	0.7137	0.7137	0.0269	0.0269		
PCB-93	28:57						0.0256	0.0256		
PCB-100 (C93)	28:57						0.0256	0.0256		
PCB-98	29:08	2183	1.47	0.8262	0.0485	0.0485	0.0261	0.0261		
PCB-102 (C98)	29:08	2183	1.47	0.8262	0.0485	0.0485	0.0261	0.0261		
PCB-88	29:38	3669	1.55	0.8013	0.1378	0.0840	0.0269	0.0269		RQ
PCB-91 (C88)	29:38	3669	1.55	0.8013	0.1378	0.0840	0.0269	0.0269		RQ
PCB-84	29:52	5885	1.55	0.7299	0.2286	0.1480	0.0295	0.0295		RQ
PCB-89	30:18						0.0277	0.0277		
PCB-121	30:42	1869	1.55	1.2964	0.0406	0.0265	0.0166	0.0166		RQM
PCB-92	31:06	7626	1.76	0.8546	0.1638	0.1638	0.0252	0.0252		M
PCB-90	31:41	32050	1.78	0.9550	0.6159	0.6159	0.0226	0.0226		
PCB-101 (C90)	31:41	32050	1.78	0.9550	0.6159	0.6159	0.0226	0.0226		
PCB-113 (C90)	31:41	32050	1.78	0.9550	0.6159	0.6159	0.0226	0.0226		
PCB-83	32:16	13565	1.55	0.8385	0.3724	0.2969	0.0257	0.0257		RQM
PCB-99 (C83)	32:16	13565	1.55	0.8385	0.3724	0.2969	0.0257	0.0257		RQM
PCB-112	32:22						0.0153	0.0153		
PCB-86	32:44	33219	1.65	1.0473	0.5822	0.5822	0.0206	0.0206		M
PCB-87 (C86)	32:44	33219	1.65	1.0473	0.5822	0.5822	0.0206	0.0206		M
PCB-97 (C86)	32:44	33219	1.65	1.0473	0.5822	0.5822	0.0206	0.0206		M
PCB-109 (C86)	32:44	33219	1.65	1.0473	0.5822	0.5822	0.0206	0.0206		M
PCB-119 (C86)	32:44	33219	1.65	1.0473	0.5822	0.5822	0.0206	0.0206		M
PCB-125 (C86)	32:44	33219	1.65	1.0473	0.5822	0.5822	0.0206	0.0206		M
PCB-85	33:30	4715	1.38	1.0408	0.0831	0.0831	0.0207	0.0207		
PCB-116 (C85)	33:30	4715	1.38	1.0408	0.0831	0.0831	0.0207	0.0207		
PCB-117 (C85)	33:30	4715	1.38	1.0408	0.0831	0.0831	0.0207	0.0207		
PCB-110	33:39	24198	1.55	1.1919	0.4396	0.3726	0.0181	0.0181		RQ
PCB-115 (C110)	33:39	24198	1.55	1.1919	0.4396	0.3726	0.0181	0.0181		RQ
PCB-82	33:57						0.0260	0.0260		
PCB-111	34:20						0.0178	0.0178		
PCB-120	34:47						0.0146	0.0146		
PCB-108	35:56						0.0391	0.0391		
PCB-124 (C108)	35:56						0.0391	0.0391		
PCB-107	36:10						0.0368	0.0368		
PCB-123	36:18						0.0435	0.0435		
PCB-106	36:25						0.0412	0.0412		
PCB-118	36:37	27773	1.62	1.2055	0.2049	0.2049	0.0350	0.0350		
PCB-122	36:59						0.0466	0.0466		
PCB-114	37:09						0.0413	0.0413		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:49	13510	1.37	1.1879	0.1043	0.1043	0.0366	0.0366		
PCB-127	39:16						0.0392	0.0392		
PCB-126	40:53						0.0420	0.0420		
S Total Hexachlorobiphenyls					1.301	1.151	0.006126	0.006126		RQ
D PCB-155L	31:24	4788273	1.24	1.0851	85.5	85.5	0.0274	0.0274	85.48	
\$ PCB-153L	38:29	2515618	1.28	0.9169	31.9	31.9	0.7689	0.7689	95.69	
* PCB-138L	39:43	7943732	1.29		100.0	100.0				
D PCB-167L	42:42	8836556	1.29	1.2572	88.5	88.5	0.4981	0.4981	88.48	
D PCB-156L	43:52	17058619	1.28	1.2106	177.4	177.4	0.5173	0.5173	88.69	
D PCB-157L (C156L)	43:52	17058619	1.28	1.2106	177.4	177.4	0.5173	0.5173	88.69	
D PCB-169L	47:05	8510249	1.28	1.2439	86.1	86.1	0.5035	0.5035	86.13	
PCB-155	31:26	1882	1.10	0.9444	0.0416	0.0416	0.004481	0.004481		M
PCB-152	31:39						0.004276	0.004276		
PCB-150	31:48						0.004176	0.004176		
PCB-136	32:11	2729	1.24	1.0116	0.0779	0.0563	0.004183	0.004183		RQ
PCB-145	32:28						0.004369	0.004369		
PCB-148	33:57						0.005566	0.005566		
PCB-135	34:34	3492	1.42	0.7256	0.1005	0.1005	0.005832	0.005832		
PCB-151 (C135)	34:34	3492	1.42	0.7256	0.1005	0.1005	0.005832	0.005832		
PCB-154	34:48						0.005206	0.005206		
PCB-144	35:10	1977	1.24	0.7852	0.0584	0.0526	0.005389	0.005389		RQ
PCB-147	35:30	21584	1.36	0.8950	0.2804	0.2804	0.007010	0.007010		
PCB-149 (C147)	35:30	21584	1.36	0.8950	0.2804	0.2804	0.007010	0.007010		
PCB-134	35:42						0.007875	0.007875		RQU
PCB-143 (C134)	35:42						0.007875	0.007875		RQU
PCB-139	36:04						0.007155	0.007155		
PCB-140 (C139)	36:04						0.007155	0.007155		
PCB-131	36:17						0.008362	0.008362		
PCB-142	36:25						0.008357	0.008357		
PCB-132	36:44	6882	1.24	0.7489	0.1191	0.1068	0.008377	0.008377		RQ
PCB-133	37:14						0.007750	0.007750		
PCB-165	37:36	882	1.24	1.0247	0.0170	0.0100	0.006123	0.006123		RQ
PCB-146	37:52						0.006510	0.006510		
PCB-161	38:00						0.005558	0.005558		
PCB-153	38:31	17055	1.24	1.0938	0.2103	0.1813	0.005736	0.005736		RQM
PCB-168 (C153)	38:31	17055	1.24	1.0938	0.2103	0.1813	0.005736	0.005736		RQM
PCB-141	38:41	3048	1.24	0.8755	0.0444	0.0405	0.007166	0.007166		RQ
PCB-130	39:06						0.008898	0.008898		
PCB-137	39:19	1534	1.38	0.7767	0.0230	0.0230	0.008078	0.008078		
PCB-164	39:28	1648	1.24	1.0382	0.0280	0.0185	0.006043	0.006043		RQM
PCB-129	39:46	12897	1.24	0.9464	0.1860	0.1584	0.006629	0.006629		RQM
PCB-138 (C129)	39:46	12897	1.24	0.9464	0.1860	0.1584	0.006629	0.006629		RQM
PCB-160 (C129)	39:46	12897	1.24	0.9464	0.1860	0.1584	0.006629	0.006629		RQM
PCB-163 (C129)	39:46	12897	1.24	0.9464	0.1860	0.1584	0.006629	0.006629		RQM
PCB-158	40:07	2769	1.24	1.3110	0.0327	0.0246	0.004785	0.004785		RQ
PCB-128	40:58	1103	1.24	0.9829	0.0296	0.0130	0.006383	0.006383		RQ
PCB-166 (C128)	40:58	1103	1.24	0.9829	0.0296	0.0130	0.006383	0.006383		RQ
PCB-159	41:58						0.004528	0.004528		
PCB-162	42:15						0.004991	0.004991		
PCB-167	42:44						0.004510	0.004510		
PCB-156	43:53	2967	1.24	1.1104	0.0377	0.0313	0.007041	0.007041		RQ
PCB-157 (C156)	43:53	2967	1.24	1.1104	0.0377	0.0313	0.007041	0.007041		RQ
PCB-169	47:07	1217	1.24	1.1628	0.0149	0.0123	0.004698	0.004698		RQ
S Total Heptachlorobiphenyls					0.4587	0.4155	0.000870	0.000870		RQ
D PCB-188L	37:07	6251033	1.07	1.3133	86.2	86.2	0.0298	0.0298	86.21	
\$ PCB-178L	40:10	4927918	1.09	1.0313	86.5	86.5	0.0379	0.0379	86.55	
* PCB-180L	45:15	5521044	1.09		100.0	100.0				
D PCB-170L	46:30	4206070	1.06	0.8362	91.1	91.1	0.0467	0.0467	91.10	
D PCB-189L	49:36	11766558	1.06	1.4414	96.5	96.5	0.2691	0.2691	96.46	
PCB-188	37:08						0.000347	0.000347		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:30	382	1.05	1.4276	0.0197	0.005118	0.000336	0.000336		RQ
PCB-184	38:01	1809	1.05	1.3672	0.0326	0.0253	0.000350	0.000350		RQ
PCB-176	38:21						0.000389	0.000389		RQU
PCB-186	38:49						0.000325	0.000325		
PCB-178	40:12						0.000536	0.000536		
PCB-175	40:49						0.000503	0.000503		
PCB-187	41:07	3354	1.05	1.1018	0.0745	0.0582	0.000435	0.000435		RQ
PCB-182	41:17						0.000518	0.000518		
PCB-183	41:40	5879	1.11	0.9825	0.1144	0.1144	0.000488	0.000488		M
PCB-185 (C183)	41:40	5879	1.11	0.9825	0.1144	0.1144	0.000488	0.000488		M
PCB-174	41:56	2239	0.93	0.9642	0.0444	0.0444	0.000497	0.000497		M
PCB-177	42:24	685	1.05	0.9773	0.0161	0.0134	0.000490	0.000490		RQM
PCB-181	42:46						0.000504	0.000504		
PCB-171	43:03	493	0.93	0.9336	0.0101	0.0101	0.000513	0.000513		M
PCB-173 (C171)	43:03	493	0.93	0.9336	0.0101	0.0101	0.000513	0.000513		M
PCB-172	44:37	1197	0.97	0.8519	0.0269	0.0269	0.000563	0.000563		M
PCB-192	44:54						0.000356	0.000356		
PCB-180	45:18	6634	1.20	1.1676	0.1087	0.1087	0.000410	0.000410		M
PCB-193 (C180)	45:18	6634	1.20	1.1676	0.1087	0.1087	0.000410	0.000410		M
PCB-191	45:39	384	1.05	1.2891	0.008116	0.005697	0.000372	0.000372		RQ
PCB-170	46:31						0.000515	0.000515		
PCB-190	47:02	224	1.00	1.3322	0.003216	0.003216	0.000360	0.000360		
PCB-189	49:37						0.009473	0.009473		
S Total Octachlorobiphenyls					0.0302	0.0168	0.004728	0.004728		RQ
D PCB-202L	42:29	4676637	0.91	0.9818	86.3	86.3	0.0171	0.0171	86.28	
* PCB-194L	51:42	8463121	0.92		100.0	100.0				
D PCB-205L	52:10	8944544	0.90	1.1786	89.7	89.7	0.0458	0.0458	89.68	
PCB-202	42:30						0.003656	0.003656		
PCB-201	43:25						0.003883	0.003883		
PCB-204	44:04	211	0.89	1.0485	0.0121	0.004303	0.003612	0.003612		RQ
PCB-197	44:18						0.003306	0.003306		
PCB-200	44:26						0.003761	0.003761		
PCB-198	47:12						0.004355	0.004355		
PCB-199 (C198)	47:12						0.004355	0.004355		
PCB-196	47:53						0.004852	0.004852		
PCB-203	48:06	543	0.89	0.9292	0.0181	0.0125	0.004076	0.004076		RQ
PCB-195	49:24						0.007863	0.007863		
PCB-194	51:44						0.006674	0.006674		
PCB-205	52:12						0.005973	0.005973		
S Total Nonachlorobiphenyls							0.1239	0.1239		
D PCB-208L	49:08	7202710	0.79	0.9576	88.9	88.9	0.2172	0.2172	88.88	
D PCB-206L	53:56	4860546	0.81	0.6947	82.7	82.7	0.2995	0.2995	82.67	
PCB-208	49:09						0.0952	0.0952		
PCB-207	50:05						0.0951	0.0951		
PCB-206	53:58						0.1239	0.1239		
D PCB-209L	55:32	4766777	0.70	0.6669	84.5	84.5	0.0442	0.0442	84.46	
DCB Decachlorobiphenyl	55:34	138	0.69	1.1004	0.0225	0.002631	0.001567	0.001567		RQ
S Polychlorinated biphenyls, Total					241.6	0.002631	0.0374	0.0374		RQ

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

CHRONIC REVISION: 2.5

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-2-c.d  
Lims ID: 140-36940-A-2-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 05:01:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-010  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 12:57:24 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 12:57:24

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:40	11:43	-2	0.726	5365813	2092006	1934	4835	1082		
202.0766	11:40	11:43	-2	0.726	1677380	654352	3387	8467	193	3.20(2.66-3.60)	
PCB-3L											
200.0795	13:49	13:52	-1	0.861	7489828	2593313	1934	4835	1341		
202.0766	13:49	13:52	-1	0.861	2252349	788221	3387	8467	233	3.33(2.66-3.60)	
PCB-1											
188.0393	11:40	11:42	-1	1.001	1831027	684634	1917	4792	357		
190.0363	11:40	11:42	-1	1.001	574678	213834	923	2307	232	3.19(2.66-3.60)	
PCB-2											
188.0393	13:39	13:42	-2	0.988	6645757	2240183	1917	4792	1169		
190.0363	13:39	13:42	-2	0.988	2110104	718766	923	2307	779	3.15(2.66-3.60)	
PCB-3											
188.0393	13:50	13:52	-1	1.001	5167331	1751241	1917	4792	914		
190.0363	13:50	13:52	-1	1.001	1659219	560959	923	2307	608	3.11(2.66-3.60)	
PCB-4L											
234.0406	14:04	14:08	-2	0.876	1957795	642279	534	1335	1203		
236.0376	14:04	14:08	-2	0.876	1195369	397553	965	2412	412	1.64(1.33-1.79)	
PCB-9L											
234.0406	16:03	16:04	-1		4357735	1256518	534	1335	2353		
236.0376	16:03	16:04	-1		2722263	793479	965	2412	822	1.60(1.33-1.79)	
PCB-8L											
234.0406	16:55	16:55	1	1.203	968736	224979	534	1335	421		a
236.0376	16:55	16:55	1	1.203	590911	140746	965	2412	146	1.64(1.33-1.79)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	20:05	20:00	7	1.252	3491592	713085	534	1335	1335		
236.0376	20:05	20:00	7	1.252	2149419	436750	965	2412	453	1.62(1.33-1.79)	
PCB-4											
222.0003	14:05	14:09	-2	1.001	61277	19088	320	800	60		
223.9974	14:05	14:09	-2	1.001	36954	12203	216	540	56	1.66(1.33-1.79)	
PCB-10											
222.0003	14:15	14:20	-2	1.013	24872	8027	320	800	25		
223.9974	14:15	14:20	-2	1.013	16947	5097	216	540	24	1.47(1.33-1.79)	
PCB-9											
222.0003	16:04	16:07	0	1.143	31605	9723	320	800	30		
223.9974	16:04	16:07	0	1.143	20762	5136	216	540	24	1.52(1.33-1.79)	
PCB-7											
222.0003	16:14	16:17	-1	1.154	177601	48929	320	800	153		
223.9974	16:14	16:17	-1	1.154	108225	27185	216	540	126	1.64(1.33-1.79)	
PCB-6											
222.0003	16:30	16:30	1	1.173	70912	19712	320	800	62		a
223.9974	16:30	16:30	1	1.173	48315	13903	216	540	64	1.47(1.33-1.79)	a
PCB-5											
222.0003	16:48	16:45	0	1.194	27264	6716	320	800	21		
223.9974	16:49	16:45	1	1.195	16641	3638	216	540	17	1.64(1.33-1.79)	
PCB-8											
222.0003	16:56	16:56	1	1.204	195289	45841	320	800	143		a
223.9974	16:56	16:56	1	1.204	120049	28075	216	540	130	1.63(1.33-1.79)	a
PCB-14											
222.0003	18:40	18:40	8	0.929	35396	6521	320	800	20		M
223.9974	18:39	18:40	7	0.929	25466	4798	216	540	22	1.39(1.33-1.79)	M
PCB-11											
222.0003	19:29	19:28	7	0.971	6123876	1281442	320	800	4005		
223.9974	19:29	19:28	7	0.971	3813743	783608	216	540	3628	1.61(1.33-1.79)	
PCB-12											
222.0003	19:48	19:46	7	0.986	276309	40018	320	800	125		
223.9974	19:48	19:46	7	0.986	161014	23723	216	540	110	1.72(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:48	19:46	7	0.986	276309	40018	320	800	125		
223.9974	19:48	19:46	7	0.986	161014	23723	216	540	110	1.72(1.33-1.79)	
PCB-15											
222.0003	20:06	20:05	7	1.001	105176	17472	320	800	55		
223.9974	20:06	20:05	7	1.001	66555	10435	216	540	48	1.58(1.33-1.79)	
PCB-19L											
268.0016	17:14	17:17	2	0.839	1001892	249016	559	1397	445		
269.9986	17:14	17:17	2	0.839	927875	225770	318	795	710	1.08(0.88-1.20)	
PCB-32L											
268.0016	20:32	20:27	6		1489578	292551	559	1397	523		
269.9986	20:32	20:27	6		1329330	261027	318	795	821	1.12(0.88-1.20)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:45	22:42	3		8671107	2068574	844	2110	2451		
269.9986	22:45	22:42	3		8300471	1958772	861	2152	2275	1.04(0.88-1.20)	
PCB-28L											
268.0016	23:02	23:02	3	1.012	7623542	1757144	844	2110	2082		
269.9986	23:02	23:02	3	1.012	7263615	1679433	861	2152	1951	1.05(0.88-1.20)	
PCB-37L											
268.0016	27:00	27:03	1	1.187	6905499	1460685	844	2110	1731		
269.9986	27:00	27:03	1	1.187	6519198	1395802	861	2152	1621	1.06(0.88-1.20)	
PCB-19											
255.9613	17:14	17:15	1	1.000	2756	657	24	60	27		RQ
	Empc Correction				1681	372	24	60	16		
257.9584	17:14	17:15	1	1.000	1617	358	29	72	12	1.70(0.88-1.20)	
PCB-18											
255.9613	19:14	19:14	12	1.116	20822	3755	24	60	156		M
257.9584	19:14	19:14	13	1.117	22205	4027	29	72	139	0.94(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:14	19:14	12	1.116	20822	3755	24	60	156		M
257.9584	19:14	19:14	13	1.117	22205	4027	29	72	139	0.94(0.88-1.20)	M
PCB-17											
255.9613	19:36	19:36	6	1.137	15451	2771	24	60	115		Ma
257.9584	19:36	19:36	7	1.138	14810	3332	29	72	115	1.04(0.88-1.20)	a
PCB-27											
255.9613	19:48	19:50	5	1.149	2715	692	24	60	29		M
257.9584	19:50	19:50	7	1.151	2999	446	29	72	15	0.91(0.88-1.20)	M
PCB-24											
255.9613	19:56	19:56	7	1.157	2346	545	24	60	23		RQa
	Empc Correction				876	340	24	60	14		a
257.9584	19:55	19:56	6	1.156	843	327	29	72	11	2.78(0.88-1.20)	
PCB-16											
255.9613	20:03	20:03	6	1.164	8519	1942	24	60	81		RQa
257.9584	20:04	20:03	7	1.165	11012	2743	29	72	95	0.77(0.88-1.20)	a
	Empc Correction				8191	1867	29	72	64		
PCB-32											
255.9613	20:35	20:35	7	1.195	9712	1740	24	60	73		M
257.9584	20:34	20:35	7	1.194	8895	1920	29	72	66	1.09(0.88-1.20)	M
PCB-34											
255.9613	21:40						213	532			
257.9584	21:40						245	612			
PCB-23											
255.9613	21:49						213	532			RQU
257.9584	21:49						245	612			
PCB-26											
255.9613	22:13	22:14	3	1.290	33141	7714	213	532	36		RQ
257.9584	22:14	22:14	4	1.291	37950	8076	245	612	33	0.87(0.88-1.20)	
	Empc Correction				31866	7417	245	612	30		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											RQ
255.9613	22:13	22:14	3	1.290	33141	7714	213	532	36		
257.9584	22:14	22:14	4	1.291	37950	8076	245	612	33	0.87(0.88-1.20)	
Empc Correction					31866	7417	245	612	30		
PCB-25											
255.9613	22:27	22:27	3	0.831	23709	4710	213	532	22		
257.9584	22:27	22:27	3	0.831	22152	5582	245	612	23	1.07(0.88-1.20)	
PCB-31											
255.9613	22:46	22:45	4	0.843	141874	32365	213	532	152		
257.9584	22:46	22:45	3	0.843	145056	33103	245	612	135	0.98(0.88-1.20)	
PCB-20											
255.9613	23:03	22:58	2	0.854	171806	38419	213	532	180		
257.9584	23:03	22:58	2	0.854	161203	35262	245	612	144	1.07(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:03	22:58	2	0.854	171806	38419	213	532	180		
257.9584	23:03	22:58	2	0.854	161203	35262	245	612	144	1.07(0.88-1.20)	
PCB-21											
255.9613	23:18	23:17	3	0.863	107075	23606	213	532	111		
257.9584	23:18	23:17	3	0.863	119858	22501	245	612	92	0.89(0.88-1.20)	
PCB-33 (C21)											
255.9613	23:18	23:17	3	0.863	107075	23606	213	532	111		
257.9584	23:18	23:17	3	0.863	119858	22501	245	612	92	0.89(0.88-1.20)	
PCB-22											M
255.9613	23:42	23:42	3	0.877	48446	11265	213	532	53		
257.9584	23:42	23:42	3	0.877	54737	12219	245	612	50	0.89(0.88-1.20)	M
PCB-36											
255.9613	25:13	25:14	1	0.934	32538	7085	213	532	33		
257.9584	25:13	25:14	1	0.934	31883	5908	245	612	24	1.02(0.88-1.20)	
PCB-39											
255.9613	25:35	25:36	2	0.947	9234	1867	213	532	9		
257.9584	25:35	25:36	2	0.947	8802	1662	245	612	7	1.05(0.88-1.20)	
PCB-38											
255.9613	26:08						213	532			
257.9584	26:08						245	612			
PCB-35											
255.9613	26:37	26:35	1	0.986	153184	35450	213	532	166		
257.9584	26:37	26:35	1	0.986	149656	32913	245	612	134	1.02(0.88-1.20)	
PCB-37											
255.9613	27:01	26:59	1	1.000	42012	7831	213	532	37		
257.9584	27:02	26:59	1	1.001	44387	8041	245	612	33	0.95(0.88-1.20)	
PCB-54L											
301.9626	20:23	20:19	7	0.820	978657	223621	121	302	1848		
303.9597	20:23	20:19	7	0.820	1233749	289025	61	152	4738	0.79(0.65-0.89)	
PCB-52L											
301.9626	24:51	24:49	1		3857678	858813	829	2072	1036		
303.9597	24:51	24:49	1		4734845	1054845	915	2287	1153	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-79L											
301.9626	32:44	32:42	1	0.970	1470240	296658	829	2072	358		
303.9597	32:44	32:42	1	0.970	1840187	371957	915	2287	407	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:44	33:47	1	1.358	4207193	848894	829	2072	1024		
303.9597	33:44	33:47	1	1.358	5223015	1060840	915	2287	1159	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:18	34:20	1	1.380	4503090	870682	829	2072	1050		
303.9597	34:18	34:20	1	1.380	5528544	1066000	915	2287	1165	0.81(0.65-0.89)	
PCB-54											
289.9224	20:18						8	20			
291.9194	20:18						5	12			
PCB-50											
289.9224	22:31	22:35	4	1.105	8518	2222	142	355	16		RQ
	Empc Correction				5299	1439	142	355	10		
291.9194	22:30	22:35	3	1.104	6882	1869	306	765	6	1.24(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:31	22:35	4	1.105	8518	2222	142	355	16		RQ
	Empc Correction				5299	1439	142	355	10		
291.9194	22:30	22:35	3	1.104	6882	1869	306	765	6	1.24(0.65-0.89)	
PCB-45											
289.9224	23:14	23:19	3	1.140	159211	34780	142	355	245		
291.9194	23:14	23:19	3	1.140	201816	44987	306	765	147	0.79(0.65-0.89)	
PCB-51 (C45)											
289.9224	23:14	23:19	3	1.140	159211	34780	142	355	245		
291.9194	23:14	23:19	3	1.140	201816	44987	306	765	147	0.79(0.65-0.89)	
PCB-46											
289.9224	23:34						142	355			
291.9194	23:34						306	765			
PCB-52											
289.9224	24:52	24:52	1	1.220	71424	17739	142	355	125		a
291.9194	24:53	24:52	2	1.221	93876	19588	306	765	64	0.76(0.65-0.89)	a
PCB-43											
289.9224	25:07						142	355			
291.9194	25:07						306	765			
PCB-73 (C43)											
289.9224	25:07						142	355			
291.9194	25:07						306	765			
PCB-49											
289.9224	25:21	25:24	5	1.243	28927	6214	142	355	44		
291.9194	25:21	25:24	5	1.243	38386	9103	306	765	30	0.75(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:21	25:24	5	1.243	28927	6214	142	355	44		
291.9194	25:21	25:24	5	1.243	38386	9103	306	765	30	0.75(0.65-0.89)	
PCB-48											
289.9224	25:39	25:39	3	1.258	9543	2025	142	355	14		a
291.9194	25:38	25:39	2	1.258	12706	2838	306	765	9	0.75(0.65-0.89)	a

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-44											a
289.9224	25:54	25:54	3	1.270	372517	77083	142	355	543		a
291.9194	25:54	25:54	3	1.270	477549	98557	306	765	322	0.78(0.65-0.89)	
PCB-47 (C44)											a
289.9224	25:54	25:54	3	1.270	372517	77083	142	355	543		a
291.9194	25:54	25:54	3	1.270	477549	98557	306	765	322	0.78(0.65-0.89)	
PCB-65 (C44)											a
289.9224	25:54	25:54	3	1.270	372517	77083	142	355	543		a
291.9194	25:54	25:54	3	1.270	477549	98557	306	765	322	0.78(0.65-0.89)	
PCB-59											
289.9224	26:18						142	355			
291.9194	26:18						306	765			
PCB-62 (C59)											
289.9224	26:18						142	355			
291.9194	26:18						306	765			
PCB-75 (C59)											
289.9224	26:18						142	355			
291.9194	26:18						306	765			
PCB-42											a
289.9224	26:24	26:24	3	1.295	6956	1168	142	355	8		a
291.9194	26:22	26:24	1	1.294	9790	2898	306	765	9	0.71(0.65-0.89)	
PCB-40											RQM
289.9224	26:53	26:52	1	1.319	17869	3310	142	355	23		M
	Empc Correction				14696	3271	142	355	23		
291.9194	26:52	26:52	1	1.318	19087	4249	306	765	14	0.94(0.65-0.89)	M
PCB-41 (C40)											RQM
289.9224	26:53	26:52	1	1.319	17869	3310	142	355	23		M
	Empc Correction				14696	3271	142	355	23		
291.9194	26:52	26:52	1	1.318	19087	4249	306	765	14	0.94(0.65-0.89)	M
PCB-71 (C40)											RQM
289.9224	26:53	26:52	1	1.319	17869	3310	142	355	23		M
	Empc Correction				14696	3271	142	355	23		
291.9194	26:52	26:52	1	1.318	19087	4249	306	765	14	0.94(0.65-0.89)	M
PCB-64											RQa
289.9224	27:06	27:06	2	1.330	22482	5850	142	355	41		a
	Empc Correction				18368	4595	142	355	32		
291.9194	27:06	27:06	1	1.329	23855	5968	306	765	20	0.94(0.65-0.89)	
PCB-72											
289.9224	27:54						142	355			
291.9194	27:54						306	765			
PCB-68											M
289.9224	28:12	28:12	1	0.836	68149	14015	142	355	99		M
291.9194	28:12	28:12	1	0.836	80134	17877	306	765	58	0.85(0.65-0.89)	M
PCB-57											
289.9224	28:37						142	355			
291.9194	28:37						306	765			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-58											
289.9224	28:52						142	355			
291.9194	28:52						306	765			
PCB-67											
289.9224	29:00						142	355			
291.9194	29:00						306	765			
PCB-63											
289.9224	29:17						142	355			
291.9194	29:17						306	765			
PCB-61											
289.9224	29:37	29:39	0	0.878	49198	7608	142	355	54		
291.9194	29:38	29:39	2	0.879	67123	9625	306	765	31	0.73(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:37	29:39	0	0.878	49198	7608	142	355	54		
291.9194	29:38	29:39	2	0.879	67123	9625	306	765	31	0.73(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:37	29:39	0	0.878	49198	7608	142	355	54		
291.9194	29:38	29:39	2	0.879	67123	9625	306	765	31	0.73(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:37	29:39	0	0.878	49198	7608	142	355	54		
291.9194	29:38	29:39	2	0.879	67123	9625	306	765	31	0.73(0.65-0.89)	
PCB-66											
289.9224	29:58	29:59	2	0.888	24520	5894	142	355	42		
291.9194	29:57	29:59	1	0.888	28110	5964	306	765	19	0.87(0.65-0.89)	
PCB-55											
289.9224	30:07						142	355			
291.9194	30:07						306	765			
PCB-56											
289.9224	30:36	30:39	-1	0.907	10520	2757	142	355	19		RQ
291.9194	30:37	30:39	1	0.908	17590	3197	306	765	10	0.60(0.65-0.89)	
	Empc Correction				13662	3580	306	765	12		
PCB-60											
289.9224	30:50	30:49	1	0.914	11418	1934	142	355	14		RQ
	Empc Correction				4234	1369	142	355	10		
291.9194	30:49	30:49	0	0.914	5500	1778	306	765	6	2.08(0.65-0.89)	
PCB-80											
289.9224	31:13						142	355			
291.9194	31:13						306	765			
PCB-79											
289.9224	32:45	32:45	0	0.971	4083	1210	142	355	9		
291.9194	32:46	32:45	1	0.971	4934	1518	306	765	5	0.83(0.65-0.89)	
PCB-78											
289.9224	33:19						142	355			
291.9194	33:19						306	765			
PCB-81											
289.9224	33:45						142	355			
291.9194	33:45						306	765			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-77											RQ
289.9224	34:18	34:20	0	1.000	9969	1932	142	355	14		
	Empc Correction				7378	1557	142	355	11		
291.9194	34:18	34:20	0	1.000	9582	2023	306	765	7	1.04(0.65-0.89)	
PCB-104L											
337.9207	25:47	25:48	1	0.814	3357318	750925	81	202	9271		
339.9178	25:47	25:48	1	0.814	2091332	463817	117	292	3964	1.61(1.32-1.78)	
PCB-95L											
337.9207	28:45	28:42	1	1.115	892093	188647	81	202	2329		
339.9178	28:45	28:42	1	1.115	549315	117429	117	292	1004	1.62(1.32-1.78)	
PCB-101L											
337.9207	31:40	31:39	1		3192999	672563	81	202	8303		
339.9178	31:40	31:39	1		1969179	408607	117	292	3492	1.62(1.32-1.78)	
PCB-111L											
337.9207	34:20	34:21	2	1.084	3857800	786149	81	202	9706		
339.9178	34:20	34:21	2	1.084	2439728	492071	117	292	4206	1.58(1.32-1.78)	
PCB-123L											
337.9207	36:17	36:19	1	1.146	6232323	1242929	5761	14402	216		
339.9178	36:17	36:19	1	1.146	3919560	792196	3535	8837	224	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:37	36:39	1	1.156	6930603	1379651	5761	14402	239		
339.9178	36:37	36:39	1	1.156	4313229	869059	3535	8837	246	1.61(1.32-1.78)	
PCB-114L											
337.9207	37:08	37:11	1	1.173	6476315	1298797	5761	14402	225		
339.9178	37:08	37:11	1	1.173	4061686	820457	3535	8837	232	1.59(1.32-1.78)	
PCB-105L											
337.9207	37:48	37:50	1	1.194	6697241	1352419	5761	14402	235		
339.9178	37:48	37:50	1	1.194	4207698	829945	3535	8837	235	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:15	39:14	1		7531892	1491018	5761	14402	259		
339.9178	39:15	39:14	1		4762315	938593	3535	8837	266	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:52	40:55	1	1.291	6592074	1270435	5761	14402	221		
339.9178	40:52	40:55	1	1.291	4137288	789717	3535	8837	223	1.59(1.32-1.78)	
PCB-104											
325.8804	25:48						87	217			
327.8775	25:48						18	45			
PCB-96											
325.8804	26:11						87	217			
327.8775	26:11						18	45			
PCB-103											
325.8804	28:06						87	217			
327.8775	28:06						18	45			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-94											
325.8804	28:19						87	217			
327.8775	28:19						18	45			
PCB-95											
325.8804	28:47	28:47	2	1.117	18477	3671	87	217	42		
327.8775	28:45	28:47	1	1.116	12762	2762	18	45	153	1.45(1.32-1.78)	
PCB-93											
325.8804	28:57						87	217			
327.8775	28:57						18	45			
PCB-100 (C93)											
325.8804	28:57						87	217			
327.8775	28:57						18	45			
PCB-98											
325.8804	29:08	29:07	1	1.130	1300	629	87	217	7		
327.8775	29:07	29:07	1	1.129	883	449	18	45	25	1.47(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:08	29:07	1	1.130	1300	629	87	217	7		
327.8775	29:07	29:07	1	1.129	883	449	18	45	25	1.47(1.32-1.78)	
PCB-88											
325.8804	29:38	29:39	2	1.150	4577	759	87	217	9		RQ
	Empc Correction				2230	466	87	217	5		
327.8775	29:38	29:39	2	1.149	1439	301	18	45	17	3.18(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:38	29:39	2	1.150	4577	759	87	217	9		RQ
	Empc Correction				2230	466	87	217	5		
327.8775	29:38	29:39	2	1.149	1439	301	18	45	17	3.18(1.32-1.78)	
PCB-84											
325.8804	29:52	29:54	2	1.159	6785	1318	87	217	15		RQ
	Empc Correction				3577	1441	87	217	17		
327.8775	29:51	29:54	0	1.158	2308	930	18	45	52	2.94(1.32-1.78)	
PCB-89											
325.8804	30:19						87	217			
327.8775	30:19						18	45			
PCB-121											
325.8804	30:42	30:42	0	1.191	2137	460	87	217	5		RQM
	Empc Correction				1136	331	87	217	4		M
327.8775	30:43	30:42	1	1.192	733	214	18	45	12	2.92(1.32-1.78)	M
PCB-92											
325.8804	31:06	31:06	1	0.857	4865	938	87	217	11		M
327.8775	31:03	31:06	-2	0.856	2761	509	18	45	28	1.76(1.32-1.78)	M
PCB-90											
325.8804	31:41	31:42	2	1.229	20508	3839	87	217	44		
327.8775	31:40	31:42	2	1.229	11542	2564	18	45	142	1.78(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:41	31:42	2	1.229	20508	3839	87	217	44		
327.8775	31:40	31:42	2	1.229	11542	2564	18	45	142	1.78(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-113 (C90)											
325.8804	31:41	31:42	2	1.229	20508	3839	87	217	44		
327.8775	31:40	31:42	2	1.229	11542	2564	18	45	142	1.78(1.32-1.78)	
PCB-83											
325.8804	32:16	32:16	2	1.252	11695	1741	87	217	20		RQM
	Empc Correction				8245	2183	87	217	25		
327.8775	32:16	32:16	2	1.252	5320	1409	18	45	78	2.20(1.32-1.78)	M
PCB-99 (C83)											
325.8804	32:16	32:16	2	1.252	11695	1741	87	217	20		RQM
	Empc Correction				8245	2183	87	217	25		
327.8775	32:16	32:16	2	1.252	5320	1409	18	45	78	2.20(1.32-1.78)	M
PCB-112											
325.8804	32:23						87	217			
327.8775	32:23						18	45			
PCB-86											
325.8804	32:44	32:44	0	1.270	20694	2392	87	217	27		M
327.8775	32:43	32:44	-1	1.269	12525	1345	18	45	75	1.65(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:44	32:44	0	1.270	20694	2392	87	217	27		M
327.8775	32:43	32:44	-1	1.269	12525	1345	18	45	75	1.65(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:44	32:44	0	1.270	20694	2392	87	217	27		M
327.8775	32:43	32:44	-1	1.269	12525	1345	18	45	75	1.65(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:44	32:44	0	1.270	20694	2392	87	217	27		M
327.8775	32:43	32:44	-1	1.269	12525	1345	18	45	75	1.65(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:44	32:44	0	1.270	20694	2392	87	217	27		M
327.8775	32:43	32:44	-1	1.269	12525	1345	18	45	75	1.65(1.32-1.78)	M
PCB-125 (C86)											
325.8804	32:44	32:44	0	1.270	20694	2392	87	217	27		M
327.8775	32:43	32:44	-1	1.269	12525	1345	18	45	75	1.65(1.32-1.78)	M
PCB-85											
325.8804	33:30	33:31	2	1.300	2737	646	87	217	7		
327.8775	33:32	33:31	4	1.301	1978	383	18	45	21	1.38(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:30	33:31	2	1.300	2737	646	87	217	7		
327.8775	33:32	33:31	4	1.301	1978	383	18	45	21	1.38(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:30	33:31	2	1.300	2737	646	87	217	7		
327.8775	33:32	33:31	4	1.301	1978	383	18	45	21	1.38(1.32-1.78)	
PCB-110											
325.8804	33:39	33:43	0	1.306	14709	2716	87	217	31		RQ
327.8775	33:39	33:43	0	1.306	13842	2907	18	45	162	1.06(1.32-1.78)	
	Empc Correction				9489	1752	18	45	97		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-115 (C110)											RQ
325.8804	33:39	33:43	0	1.306	14709	2716	87	217	31		
327.8775	33:39	33:43	0	1.306	13842	2907	18	45	162	1.06(1.32-1.78)	
Empc Correction					9489	1752	18	45	97		
PCB-82											
325.8804	33:59						87	217			
327.8775	33:59						18	45			
PCB-111											
325.8804	34:22						87	217			
327.8775	34:22						18	45			
PCB-120											
325.8804	34:49						87	217			
327.8775	34:49						18	45			
PCB-108											
325.8804	35:58						226	565			
327.8775	35:58						154	385			
PCB-124 (C108)											
325.8804	35:58						226	565			
327.8775	35:58						154	385			
PCB-107											
325.8804	36:13						226	565			
327.8775	36:13						154	385			
PCB-123											
325.8804	36:18						226	565			
327.8775	36:18						154	385			
PCB-106											
325.8804	36:26						226	565			
327.8775	36:26						154	385			
PCB-118											
325.8804	36:37	36:35	0	1.000	17156	3320	226	565	15		
327.8775	36:38	36:35	1	1.001	10617	1637	154	385	11	1.62(1.32-1.78)	
PCB-122											
325.8804	36:59						226	565			
327.8775	36:59						154	385			
PCB-114											
325.8804	37:10						226	565			
327.8775	37:10						154	385			
PCB-105											
325.8804	37:49	37:49	1	1.001	7816	1331	226	565	6		
327.8775	37:48	37:49	0	1.000	5694	1583	154	385	10	1.37(1.32-1.78)	
PCB-127											
325.8804	39:17						226	565			
327.8775	39:17						154	385			
PCB-126											
325.8804	40:54						226	565			
327.8775	40:54						154	385			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-155L											
371.8817	31:24	32:40	0	0.791	2650513	552911	71	177	7787		
373.8788	31:24	32:40	0	0.791	2137760	439619	58	145	7580	1.24(1.05-1.43)	
PCB-153L											
371.8817	38:29	38:28	1	0.901	1410525	284912	2404	6010	119		
373.8788	38:28	38:28	0	0.901	1105093	214626	1507	3767	142	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:42	1		4469517	882759	2404	6010	367		
373.8788	39:43	39:42	1		3474215	678405	1507	3767	450	1.29(1.05-1.43)	
PCB-167L											
371.8817	42:42	44:25	0	1.075	4970569	973025	2404	6010	405		
373.8788	42:42	44:25	0	1.075	3865987	755543	1507	3767	501	1.29(1.05-1.43)	
PCB-156L											
371.8817	43:52	45:38	0	1.104	9581527	1243231	2404	6010	517		
373.8788	43:52	45:38	0	1.104	7477092	982295	1507	3767	652	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:52	45:38	0	1.104	9581527	1243231	2404	6010	517		
373.8788	43:52	45:38	0	1.104	7477092	982295	1507	3767	652	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:05	48:59	0	1.185	4785756	900914	2404	6010	375		
373.8788	47:05	48:59	0	1.185	3724493	691726	1507	3767	459	1.28(1.05-1.43)	
PCB-155											
359.8415	31:26	31:27	1	1.001	984	241	14	35	17		M
361.8385	31:27	31:27	2	1.002	898	172	3	7	57	1.10(1.05-1.43)	M
PCB-152											
359.8415	31:39						14	35			
361.8385	31:39						3	7			
PCB-150											
359.8415	31:48						14	35			
361.8385	31:48						3	7			
PCB-136											
359.8415	32:11	32:10	1	1.025	1511	429	14	35	31		RQ
361.8385	32:12	32:10	2	1.025	2260	610	3	7	203	0.67(1.05-1.43)	
	Empc Correction				1218	345	3	7	115		
PCB-145											
359.8415	32:28						14	35			
361.8385	32:28						3	7			
PCB-148											
359.8415	33:58						14	35			
361.8385	33:58						3	7			
PCB-135											
359.8415	34:34	34:36	2	1.101	2049	305	14	35	22		
361.8385	34:34	34:36	1	1.101	1443	543	3	7	181	1.42(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:34	34:36	2	1.101	2049	305	14	35	22		
361.8385	34:34	34:36	1	1.101	1443	543	3	7	181	1.42(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-154											
359.8415	34:48						14	35			
361.8385	34:48						3	7			
PCB-144											
359.8415	35:10	35:08	3	1.120	1312	365	14	35	26		RQ
	Empc Correction				1094	373	14	35	27		
361.8385	35:07	35:08	0	1.118	883	301	3	7	100	1.49(1.05-1.43)	
PCB-147											
359.8415	35:30	35:24	1	1.130	12422	2573	20	50	129		
361.8385	35:30	35:24	2	1.131	9162	2390	15	37	159	1.36(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:30	35:24	1	1.130	12422	2573	20	50	129		
361.8385	35:30	35:24	2	1.131	9162	2390	15	37	159	1.36(1.05-1.43)	
PCB-134											
359.8415	35:45						20	50			RQU
361.8385	35:45						15	37			
PCB-143 (C134)											
359.8415	35:45						20	50			RQU
361.8385	35:45						15	37			
PCB-139											
359.8415	36:04						20	50			
361.8385	36:04						15	37			
PCB-140 (C139)											
359.8415	36:04						20	50			
361.8385	36:04						15	37			
PCB-131											
359.8415	36:17						20	50			
361.8385	36:17						15	37			
PCB-142											
359.8415	36:26						20	50			
361.8385	36:26						15	37			
PCB-132											
359.8415	36:44	36:45	-1	1.170	3810	912	20	50	46		RQ
361.8385	36:44	36:45	-1	1.170	3861	959	15	37	64	0.99(1.05-1.43)	
	Empc Correction				3072	735	15	37	49		
PCB-133											
359.8415	37:15						20	50			
361.8385	37:15						15	37			
PCB-165											
359.8415	37:36	37:38	-1	0.881	1100	344	20	50	17		RQ
	Empc Correction				488	183	20	50	9		
361.8385	37:35	37:38	-3	0.880	394	148	15	37	10	2.79(1.05-1.43)	
PCB-146											
359.8415	37:52						20	50			
361.8385	37:52						15	37			

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-161											
359.8415	38:00						20	50			
361.8385	38:00						15	37			
PCB-153											
359.8415	38:31	38:31	0	0.902	12173	2439	20	50	122		RQM
	Empc Correction				9441	2453	20	50	123		M
361.8385	38:29	38:31	-1	0.901	7614	1979	15	37	132	1.60(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:31	38:31	0	0.902	12173	2439	20	50	122		RQM
	Empc Correction				9441	2453	20	50	123		M
361.8385	38:29	38:31	-1	0.901	7614	1979	15	37	132	1.60(1.05-1.43)	
PCB-141											
359.8415	38:41	38:41	0	0.906	1980	309	20	50	15		RQ
	Empc Correction				1687	345	20	50	17		
361.8385	38:40	38:41	-1	0.905	1361	279	15	37	19	1.45(1.05-1.43)	
PCB-130											
359.8415	39:06						20	50			
361.8385	39:06						15	37			
PCB-137											
359.8415	39:19	39:19	0	0.921	889	324	20	50	16		
361.8385	39:20	39:19	1	0.921	645	192	15	37	13	1.38(1.05-1.43)	
PCB-164											
359.8415	39:28	39:28	1	0.924	1768	461	20	50	23		RQM
	Empc Correction				912	264	20	50	13		M
361.8385	39:28	39:28	2	0.924	736	213	15	37	14	2.40(1.05-1.43)	
PCB-129											
359.8415	39:46	39:46	1	0.931	9381	1961	20	50	98		RQM
	Empc Correction				7139	1624	20	50	81		M
361.8385	39:45	39:46	0	0.931	5758	1310	15	37	87	1.63(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:46	39:46	1	0.931	9381	1961	20	50	98		RQM
	Empc Correction				7139	1624	20	50	81		M
361.8385	39:45	39:46	0	0.931	5758	1310	15	37	87	1.63(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:46	39:46	1	0.931	9381	1961	20	50	98		RQM
	Empc Correction				7139	1624	20	50	81		M
361.8385	39:45	39:46	0	0.931	5758	1310	15	37	87	1.63(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:46	39:46	1	0.931	9381	1961	20	50	98		RQM
	Empc Correction				7139	1624	20	50	81		M
361.8385	39:45	39:46	0	0.931	5758	1310	15	37	87	1.63(1.05-1.43)	
PCB-158											
359.8415	40:07	40:10	0	0.939	1533	370	20	50	19		RQ
361.8385	40:06	40:10	-1	0.939	2156	538	15	37	36	0.71(1.05-1.43)	
	Empc Correction				1236	298	15	37	20		
PCB-128											
359.8415	40:58	41:01	-1	0.959	611	168	20	50	8		RQ
361.8385	41:01	41:01	3	0.960	1891	449	15	37	30	0.32(1.05-1.43)	
	Empc Correction				492	135	15	37	9		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-166 (C128)											RQ
359.8415	40:58	41:01	-1	0.959	611	168	20	50	8		
361.8385	41:01	41:01	3	0.960	1891	449	15	37	30	0.32(1.05-1.43)	
Empc Correction					492	135	15	37	9		
PCB-159											
359.8415	41:58						20	50			
361.8385	41:58						15	37			
PCB-162											
359.8415	42:16						20	50			
361.8385	42:16						15	37			
PCB-167											
359.8415	42:44						20	50			
361.8385	42:44						15	37			
PCB-156											RQ
359.8415	43:53	43:52	-1	1.000	1643	497	20	50	25		
361.8385	43:52	43:52	-2	1.000	1931	381	15	37	25	0.85(1.05-1.43)	
Empc Correction					1324	400	15	37	27		
PCB-157 (C156)											RQ
359.8415	43:53	43:52	-1	1.000	1643	497	20	50	25		
361.8385	43:52	43:52	-2	1.000	1931	381	15	37	25	0.85(1.05-1.43)	
Empc Correction					1324	400	15	37	27		
PCB-169											RQ
359.8415	47:07	47:04	0	1.001	674	188	20	50	9		
361.8385	47:05	47:04	-1	1.000	802	335	15	37	22	0.84(1.05-1.43)	
Empc Correction					543	151	15	37	10		
PCB-188L											
405.8428	37:07	37:38	1	0.820	3237126	655716	130	325	5044		
407.8398	37:07	37:38	1	0.820	3013907	612172	35	87	17491	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:44	0	0.888	2569752	524261	130	325	4033		
407.8398	40:10	40:44	0	0.888	2358166	478790	35	87	13680	1.09(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:14	0		2879587	542978	130	325	4177		
407.8398	45:15	45:14	0		2641457	510961	35	87	14599	1.09(0.89-1.21)	
PCB-170L											
405.8428	46:30	47:09	0	1.028	2166998	420689	130	325	3236		
407.8398	46:30	47:09	0	1.028	2039072	398289	35	87	11380	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:36	50:19	-1	1.096	6052460	1150708	1251	3127	920		
407.8398	49:36	50:19	-1	1.096	5714098	1095619	1221	3052	897	1.06(0.89-1.21)	
PCB-188											
393.8025	37:09						1	2			
395.7995	37:09						1	2			
PCB-179											RQ
393.8025	37:30	37:28	1	1.010	196	91	1	2	91		
395.7995	37:29	37:28	0	1.010	1273	310	1	2	310	0.15(0.89-1.21)	
Empc Correction					186	86	1	2	86		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-184											RQ
393.8025	38:01	37:58	2	1.024	927	220	1	2	220		
395.7995	38:00	37:58	1	1.024	1403	453	1	2	453	0.66(0.89-1.21)	
Empc Correction					882	209	1	2	209		
PCB-176											RQU
393.8025	38:21						1	2			
395.7995	38:21						1	2			
PCB-186											
393.8025	38:50						1	2			
395.7995	38:50						1	2			
PCB-178											
393.8025	40:13						1	2			
395.7995	40:13						1	2			
PCB-175											
393.8025	40:49						1	2			
395.7995	40:49						1	2			
PCB-187											RQ
393.8025	41:07	41:04	2	1.108	1718	314	1	2	314		
395.7995	41:05	41:04	0	1.107	2576	834	1	2	834	0.67(0.89-1.21)	
Empc Correction					1636	299	1	2	299		
PCB-182											
393.8025	41:18						1	2			
395.7995	41:18						1	2			
PCB-183											M
393.8025	41:40	41:42	-1	1.123	3098	568	1	2	568		M
395.7995	41:42	41:42	1	1.124	2781	427	1	2	427	1.11(0.89-1.21)	M
PCB-185 (C183)											M
393.8025	41:40	41:42	-1	1.123	3098	568	1	2	568		M
395.7995	41:42	41:42	1	1.124	2781	427	1	2	427	1.11(0.89-1.21)	M
PCB-174											M
393.8025	41:56	41:58	-1	1.130	1077	293	1	2	293		M
395.7995	41:58	41:58	1	1.131	1162	398	1	2	398	0.93(0.89-1.21)	M
PCB-177											RQM
393.8025	42:24	42:24	1	1.142	351	145	1	2	145		
395.7995	42:24	42:24	1	1.142	471	250	1	2	250	0.75(0.89-1.21)	M
Empc Correction					334	138	1	2	138		
PCB-181											
393.8025	42:47						1	2			
395.7995	42:47						1	2			
PCB-171											M
393.8025	43:03	43:04	3	1.160	238	67	1	2	67		
395.7995	43:04	43:04	5	1.160	255	70	1	2	70	0.93(0.89-1.21)	M
PCB-173 (C171)											M
393.8025	43:03	43:04	3	1.160	238	67	1	2	67		
395.7995	43:04	43:04	5	1.160	255	70	1	2	70	0.93(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											M
393.8025	44:37	44:41	0	0.899	589	204	1	2	204		
395.7995	44:41	44:41	3	0.901	608	225	1	2	225	0.97(0.89-1.21)	M
PCB-192											
393.8025	44:53						1	2			
395.7995	44:53						1	2			
PCB-180											M
393.8025	45:18	45:15	3	0.913	3624	924	1	2	924		M
395.7995	45:15	45:15	0	0.912	3010	838	1	2	838	1.20(0.89-1.21)	M
PCB-193 (C180)											M
393.8025	45:18	45:15	3	0.913	3624	924	1	2	924		M
395.7995	45:15	45:15	0	0.912	3010	838	1	2	838	1.20(0.89-1.21)	M
PCB-191											RQ
393.8025	45:39	45:37	2	0.920	197	103	1	2	103		
395.7995	45:37	45:37	0	0.920	350	177	1	2	177	0.56(0.89-1.21)	
Empc Correction					187	98	1	2	98		
PCB-170											
393.8025	46:31						1	2			
395.7995	46:31						1	2			
PCB-190											
393.8025	47:02	47:05	0	0.948	112	54	1	2	54		
395.7995	46:59	47:05	-3	0.947	112	68	1	2	68	1.00(0.89-1.21)	
PCB-189											
393.8025	49:37						50	125			
395.7995	49:37						32	80			
PCB-202L											
439.8038	42:29	42:29	0	0.822	2222737	435691	24	60	18154		
441.8008	42:29	42:29	0	0.822	2453900	488394	47	117	10391	0.91(0.76-1.02)	
PCB-194L											
439.8038	51:42	51:43	0		4064406	765257	167	417	4582		
441.8008	51:42	51:43	0		4398715	828246	177	442	4679	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:10	52:11	0	1.009	4246201	805742	167	417	4825		
441.8008	52:10	52:11	0	1.009	4698343	887338	177	442	5013	0.90(0.76-1.02)	
PCB-202											
427.7635	42:31						11	27			
429.7606	42:31						3	7			
PCB-201											
427.7635	43:25						11	27			
429.7606	43:25						3	7			
PCB-204											RQ
427.7635	44:04	44:05	0	1.037	483	161	11	27	15		
Empc Correction					99	52	11	27	5		
429.7606	44:08	44:05	3	1.039	112	59	3	7	20	4.31(0.76-1.02)	
PCB-197											
427.7635	44:19						11	27			
429.7606	44:19						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:26						11	27			
429.7606	44:26						3	7			
PCB-198											
427.7635	47:11						11	27			
429.7606	47:11						3	7			
PCB-199 (C198)											
427.7635	47:11						11	27			
429.7606	47:11						3	7			
PCB-196											
427.7635	47:52						11	27			
429.7606	47:52						3	7			
PCB-203											
427.7635	48:06	48:04	1	0.922	256	127	11	27	12		RQ
429.7606	48:05	48:04	0	0.922	530	204	3	7	68	0.48(0.76-1.02)	
	Empc Correction				287	142	3	7	47		
PCB-195											
427.7635	49:23						32	80			
429.7606	49:23						12	30			
PCB-194											
427.7635	51:44						32	80			
429.7606	51:44						12	30			
PCB-205											
427.7635	52:10						32	80			
429.7606	52:10						12	30			
PCB-208L											
473.7648	49:08	49:08	-1	0.950	3183116	616522	577	1442	1068		
475.7619	49:08	49:08	-1	0.950	4019594	773989	749	1872	1033	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:56	53:56	0	1.043	2178372	405770	577	1442	703		
475.7619	53:56	53:56	0	1.043	2682174	504536	749	1872	674	0.81(0.65-0.89)	
PCB-208											
461.7246	49:09						116	290			
463.7216	49:09						486	1215			
PCB-207											
461.7246	50:05						116	290			
463.7216	50:05						486	1215			
PCB-206											
461.7246	53:57						116	290			
463.7216	53:57						486	1215			
PCB-209L											
507.7258	55:32	55:33	-1	1.074	1967054	353852	95	237	3725		
509.7229	55:32	55:33	-1	1.074	2799723	516005	93	232	5548	0.70(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:34	55:35	-1	1.000	1098	388	5	12	78		RQ
	Empc Correction				56	27	5	12	5		
497.6826	55:33	55:35	-2	1.000	82	40	1	2	40	13.39(0.59-0.79)	



## QC Flag Legend

### Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-2-c.d

Injection Date: 28-Jun-2024 05:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED

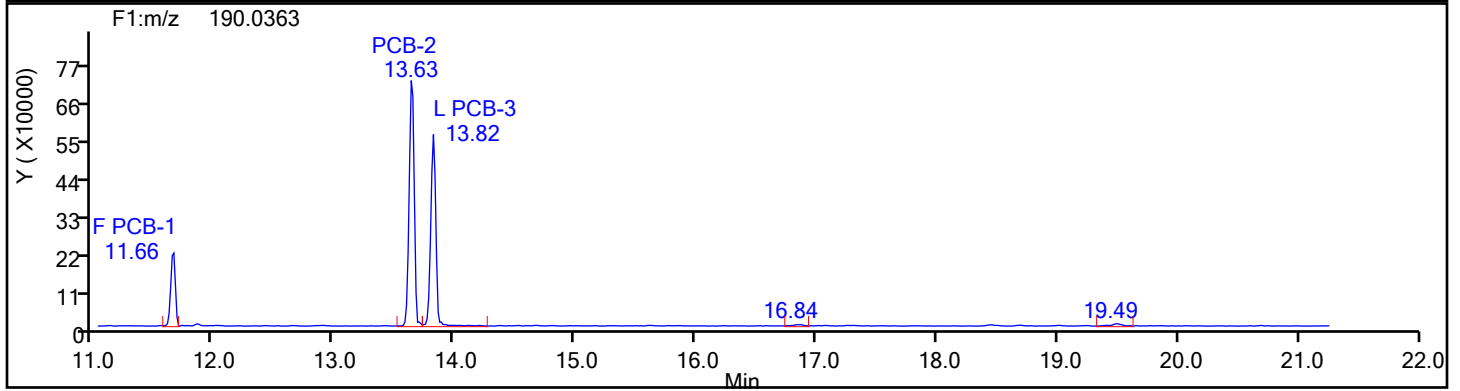
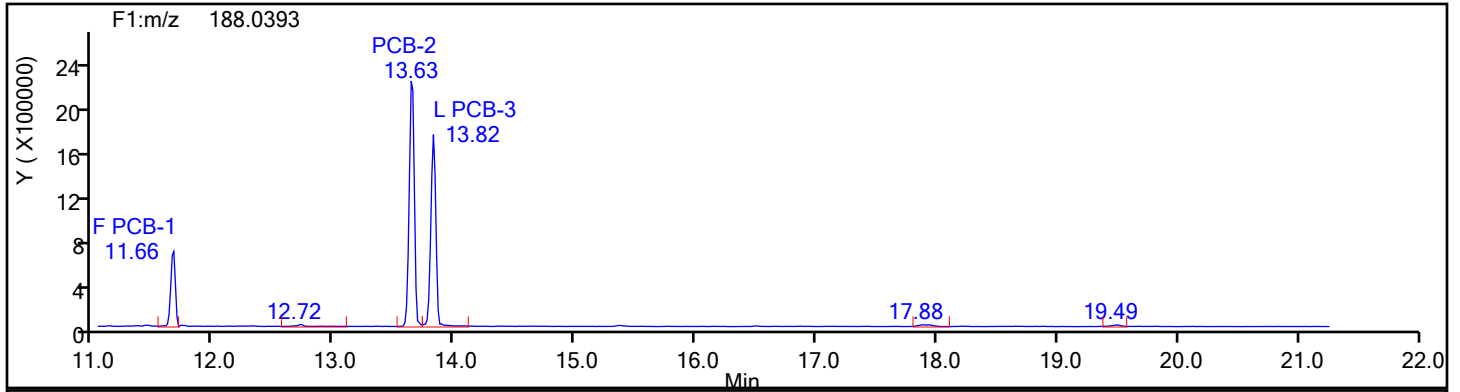
Worklist#: 88205

Sample Line#: 10

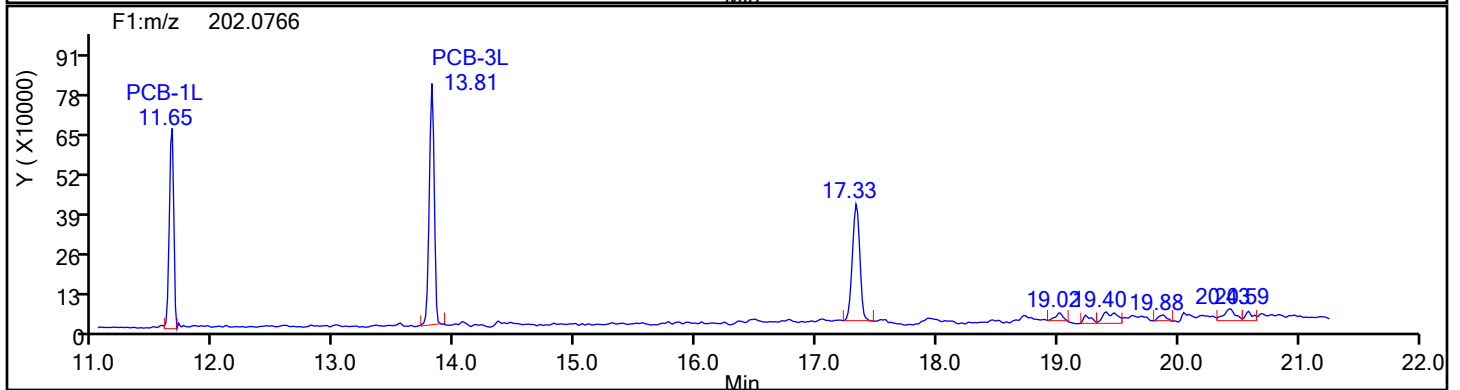
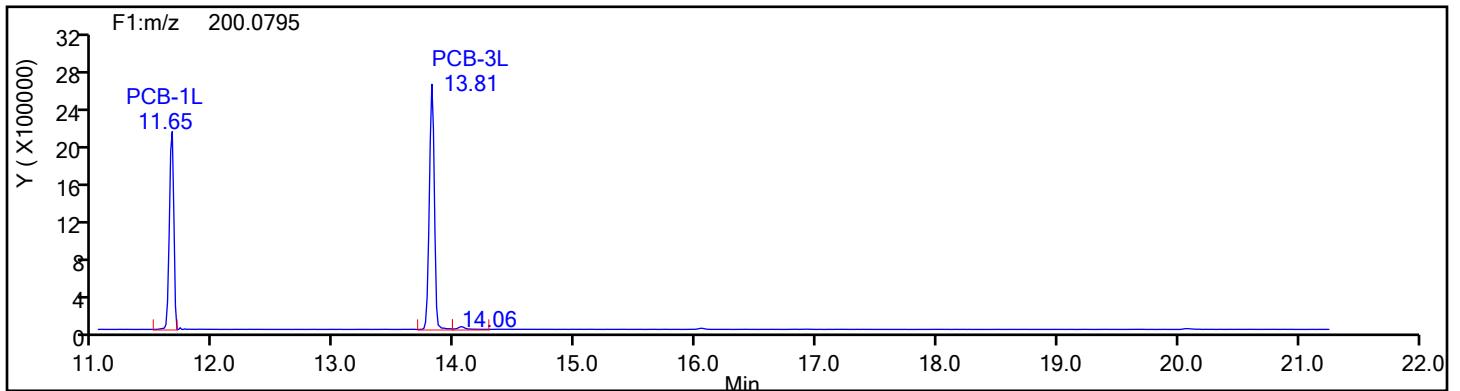
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

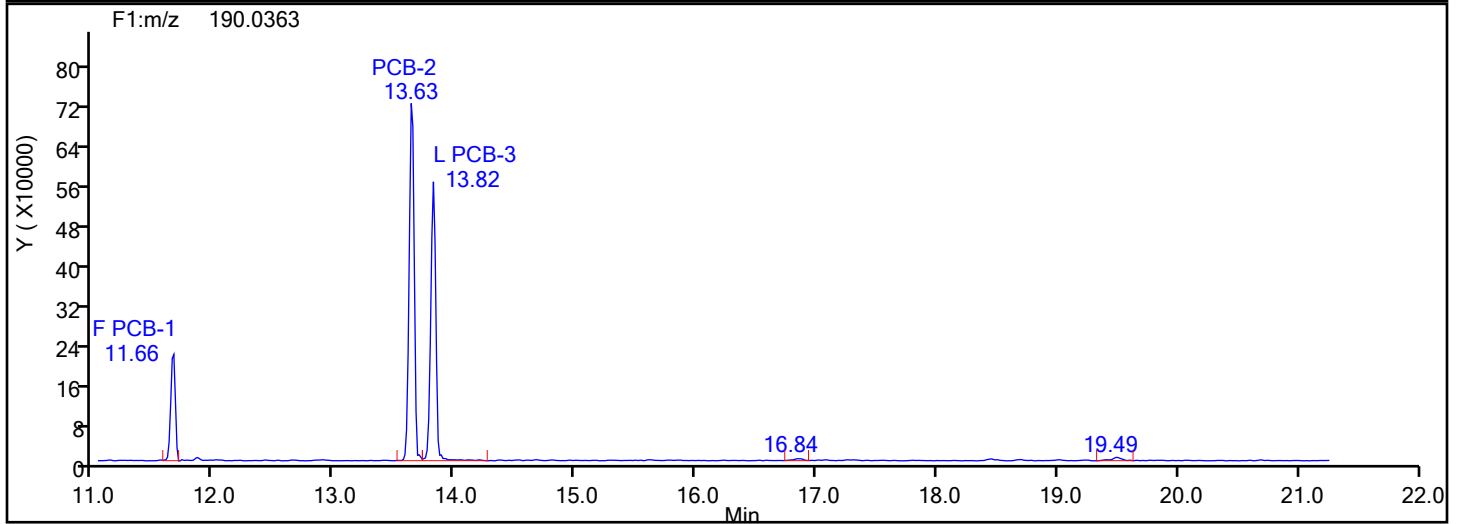
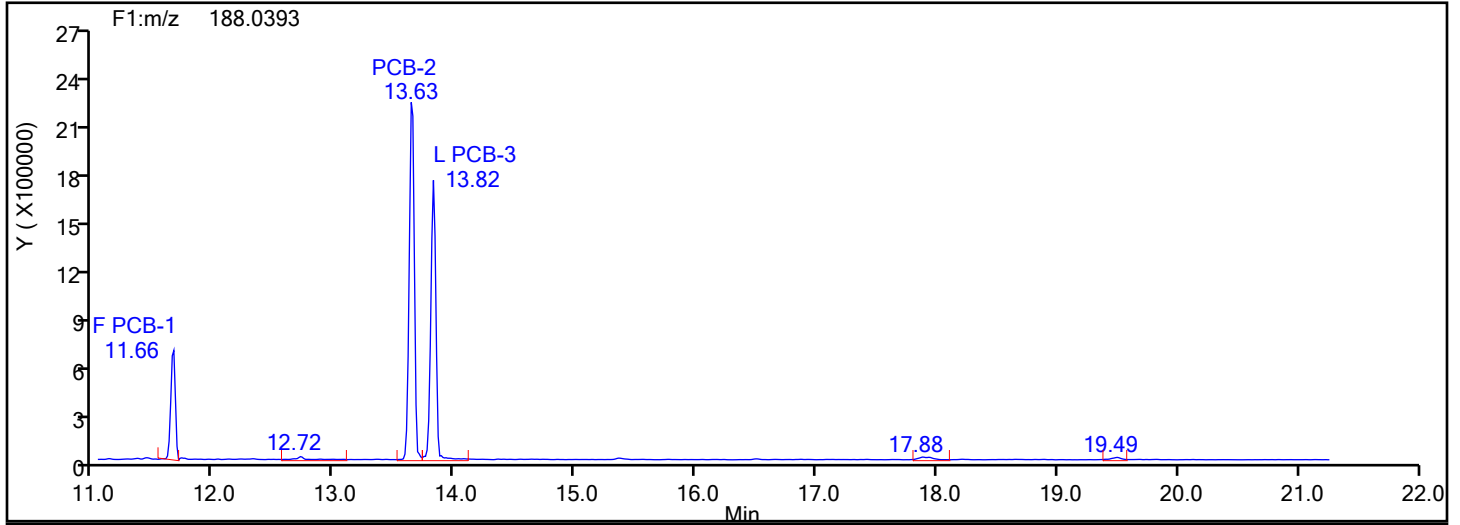


MoPCB F1 Standards

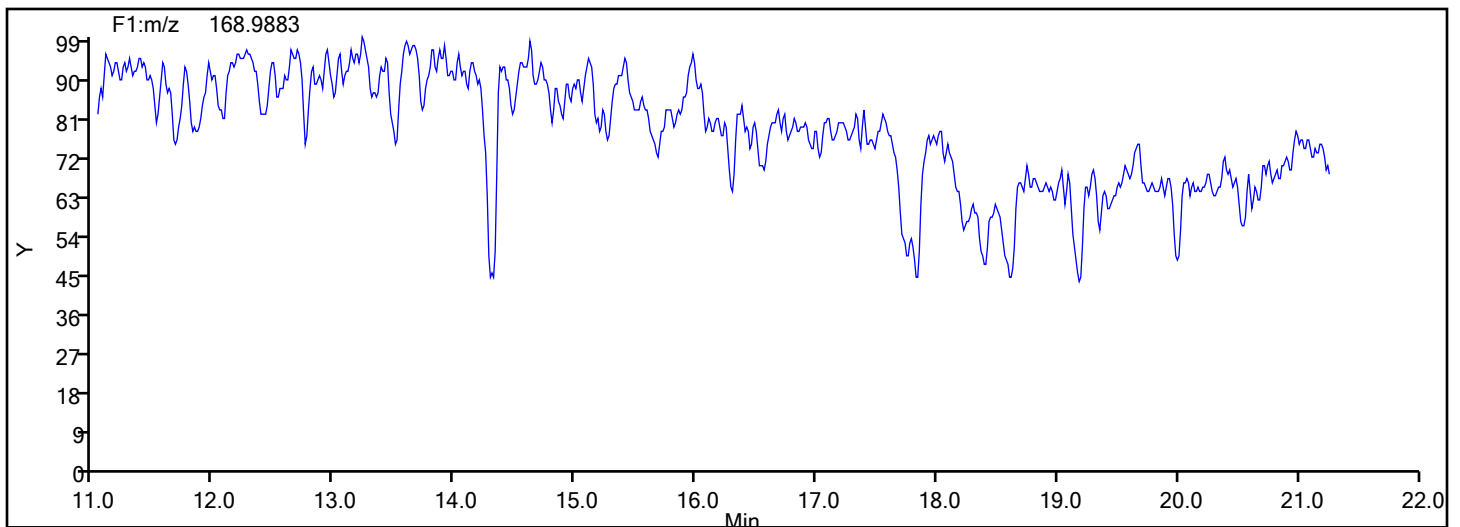


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 05:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

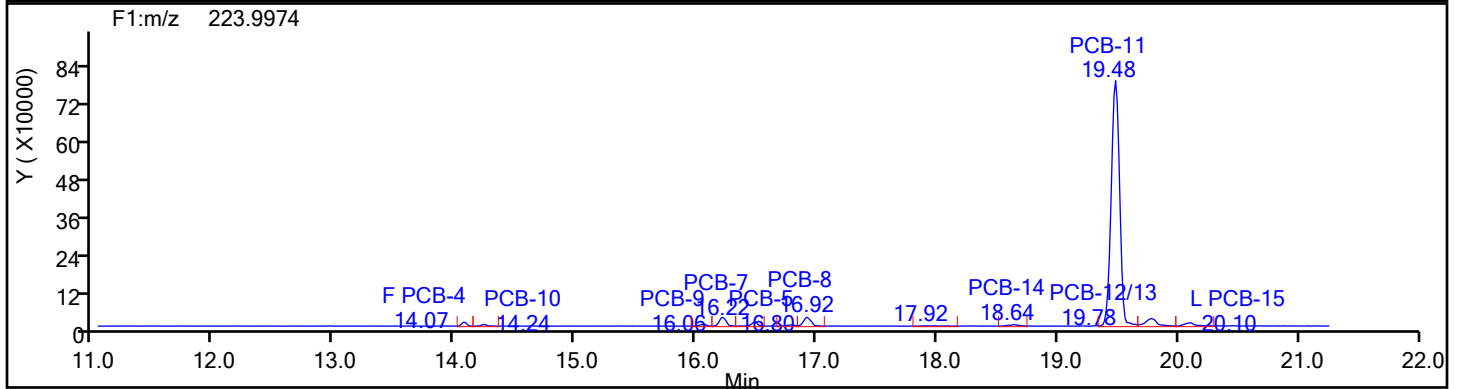
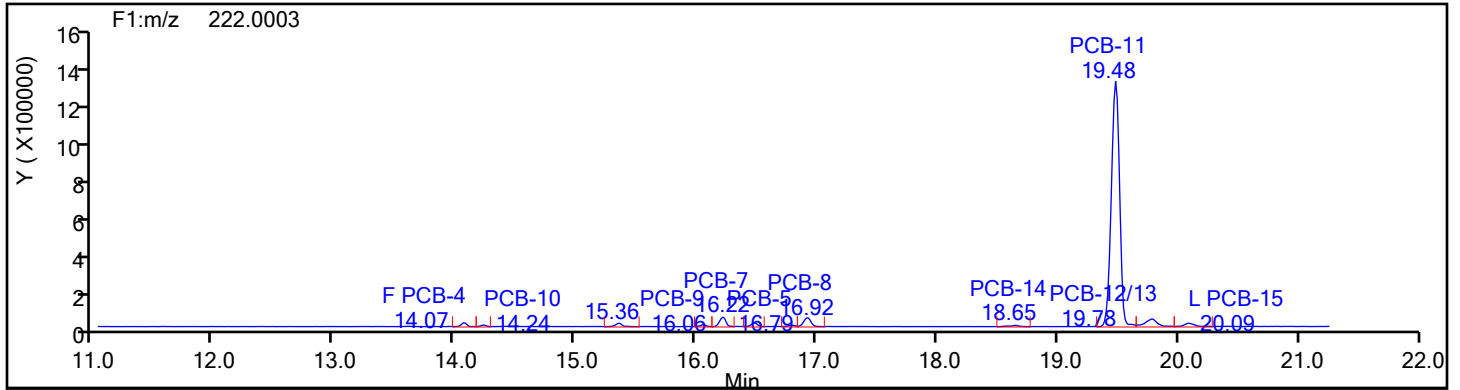


## MoPCB F1 Lock Mass

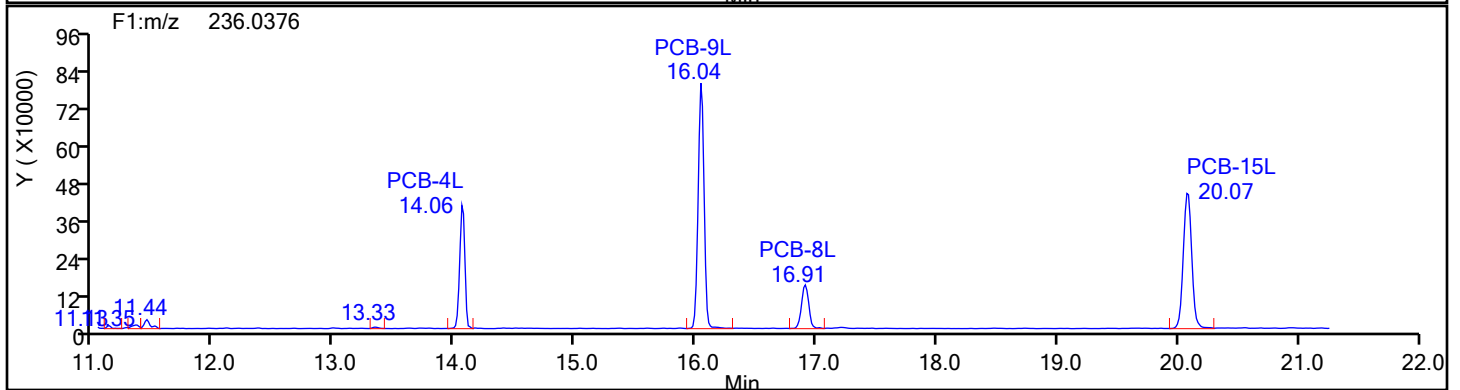
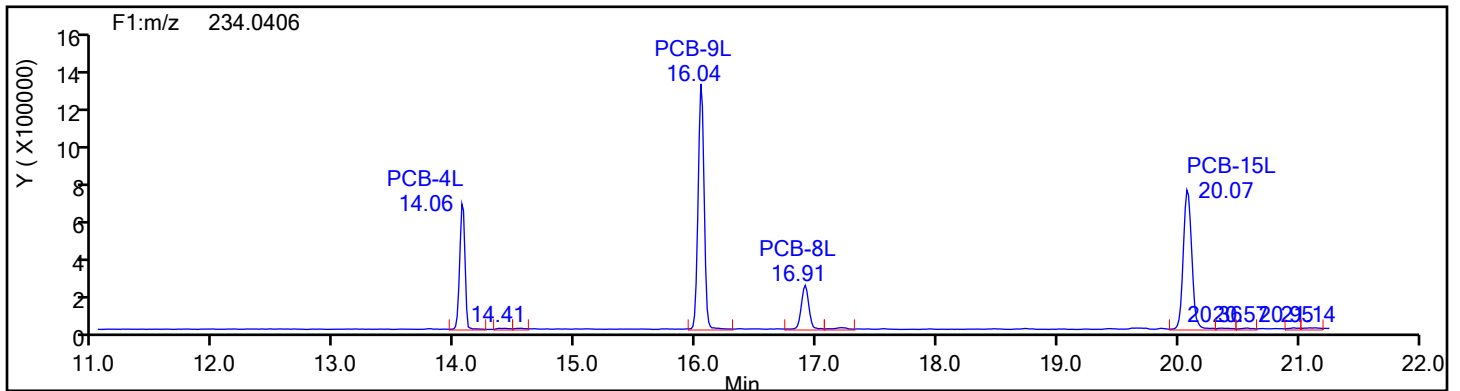


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 05:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1

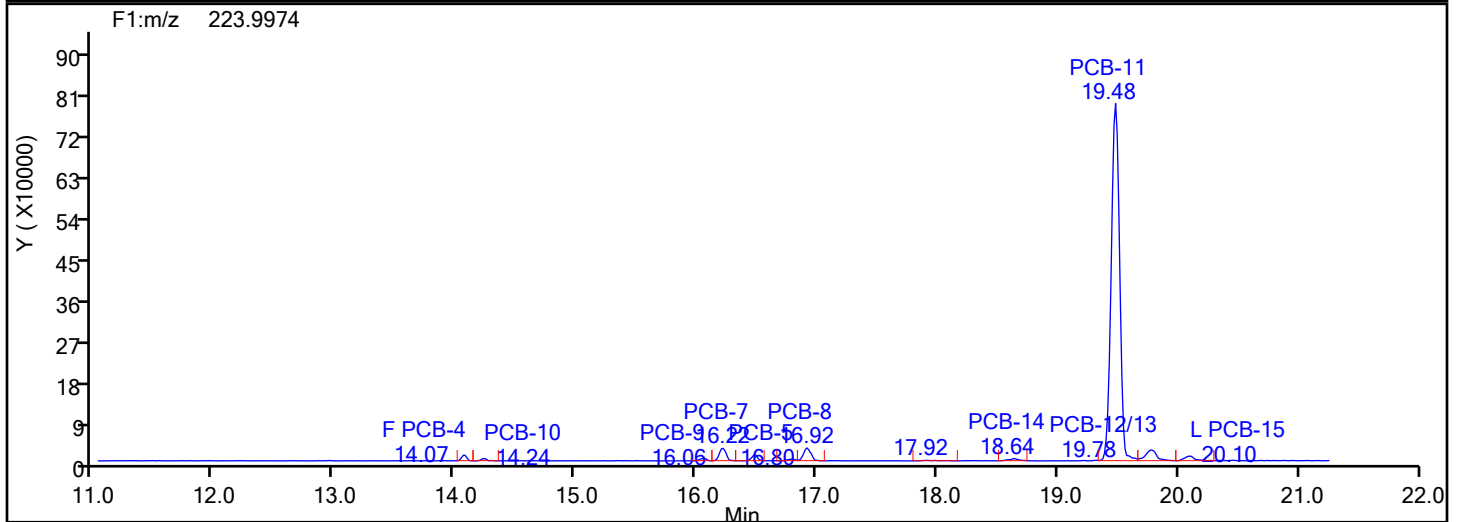
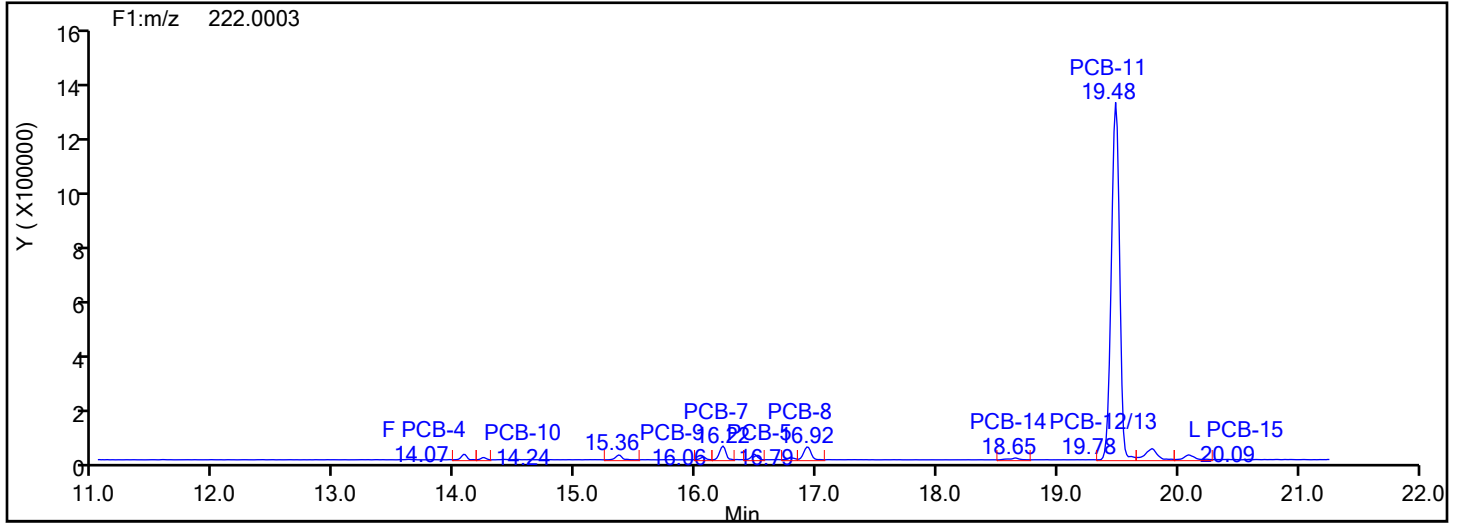


## DiPCB F1 Standards

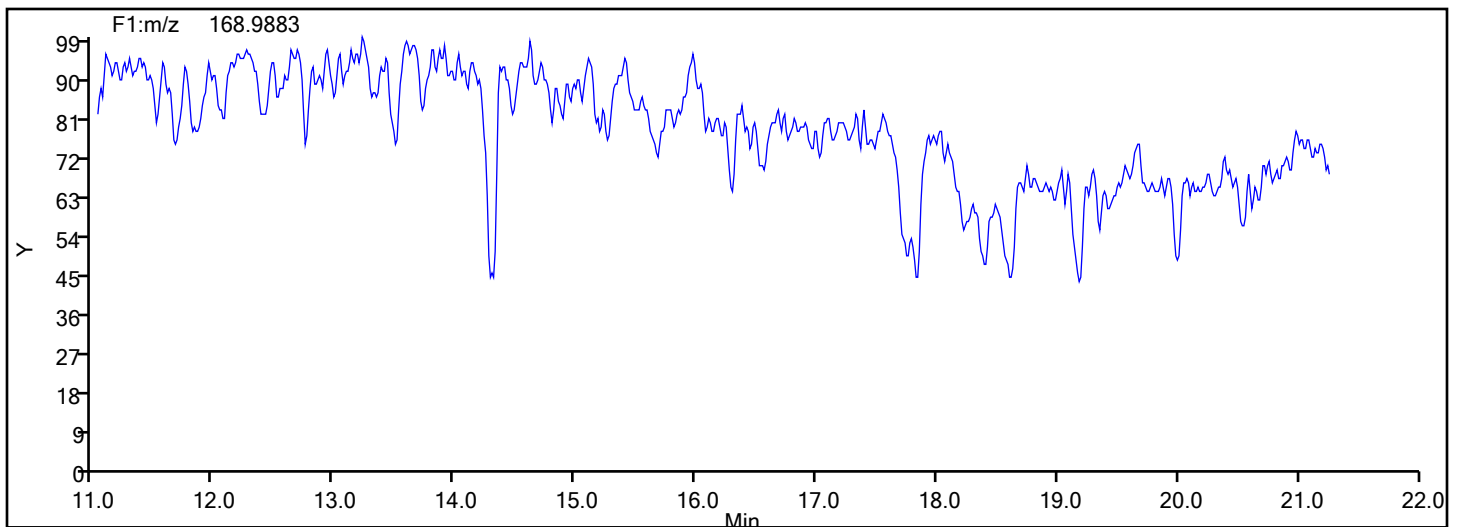


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 05:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



## DiPCB F1 Lock Mass



## Eurofins Knoxville

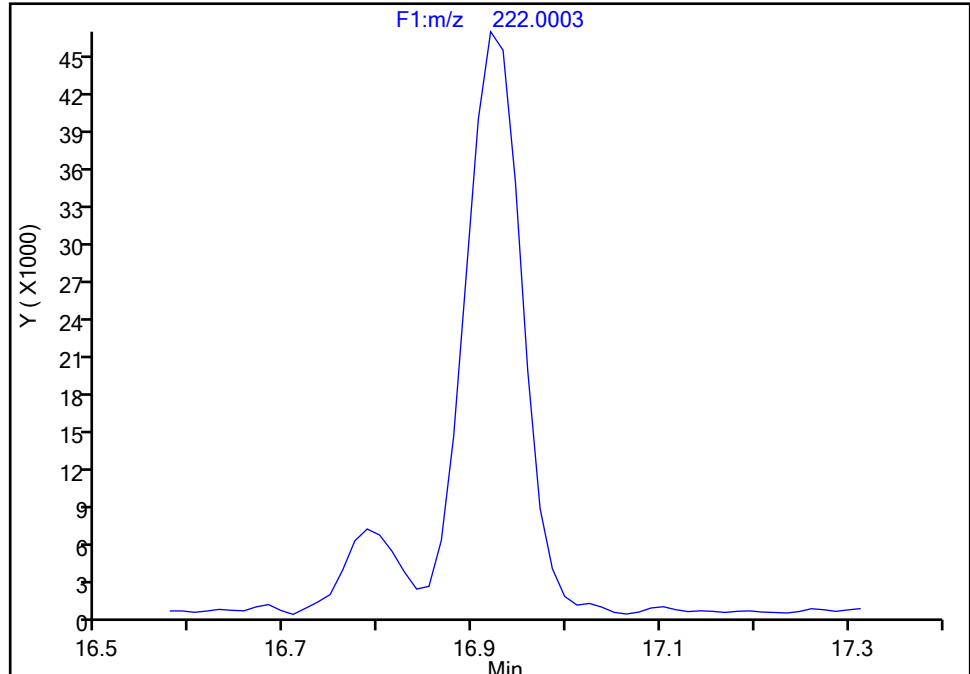
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Injection Date: 28-Jun-2024 05:01:00 Instrument ID: D2D  
Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

**PCB-8, CAS: 34883-43-7**

Signal: 1

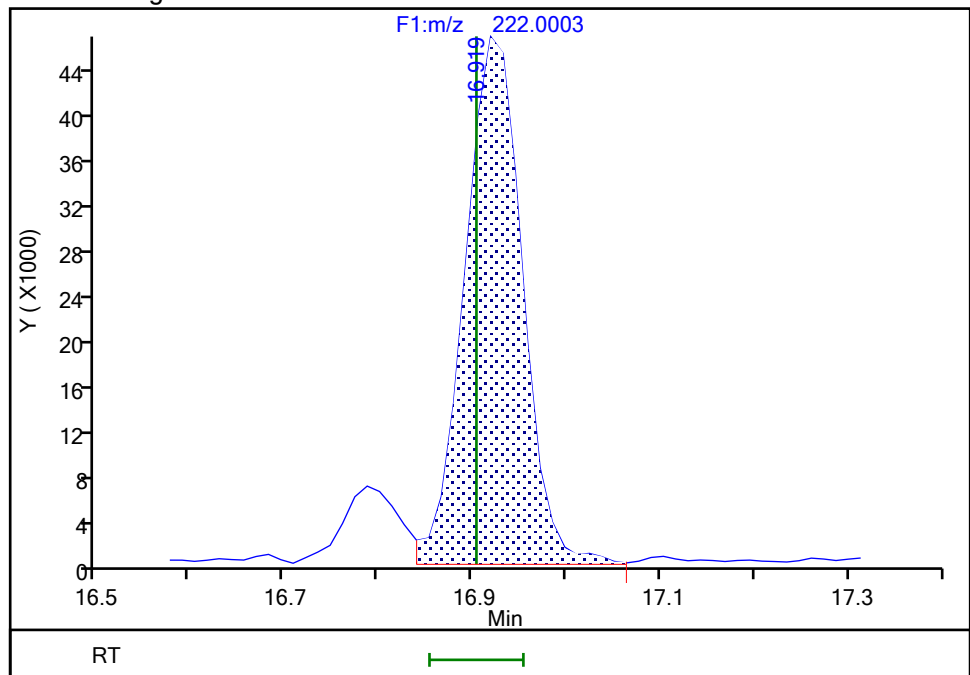
Not Detected  
Expected RT: 16.90

## Processing Integration Results



RT: 16.92  
Area: 195289  
Amount: 4.513571  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 12:05:53 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

## Eurofins Knoxville

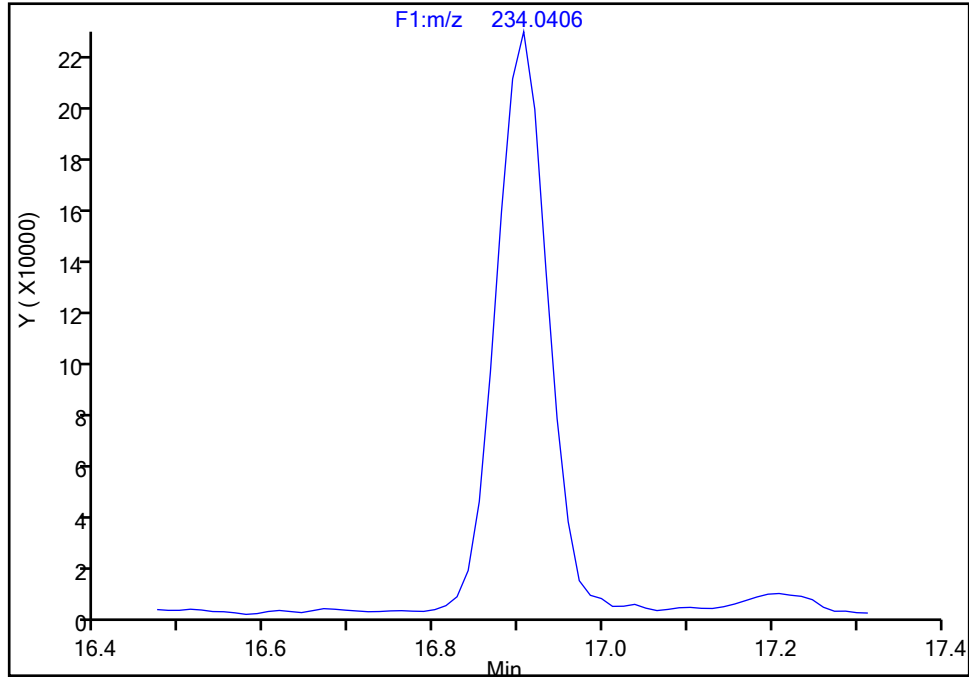
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Injection Date: 28-Jun-2024 05:01:00 Instrument ID: D2D  
Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

**PCB-8L, CAS: STL01600**

Signal: 1

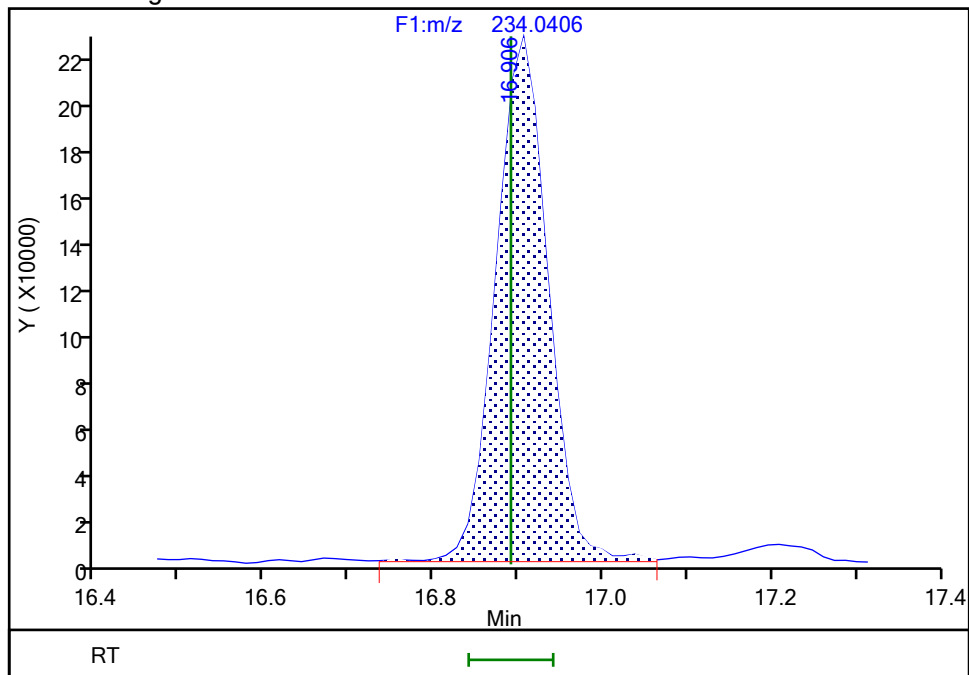
Not Detected  
Expected RT: 16.89

## Processing Integration Results



RT: 16.91  
Area: 968736  
Amount: 29.396368  
Amount Units: pg/ul

## Manual Integration Results



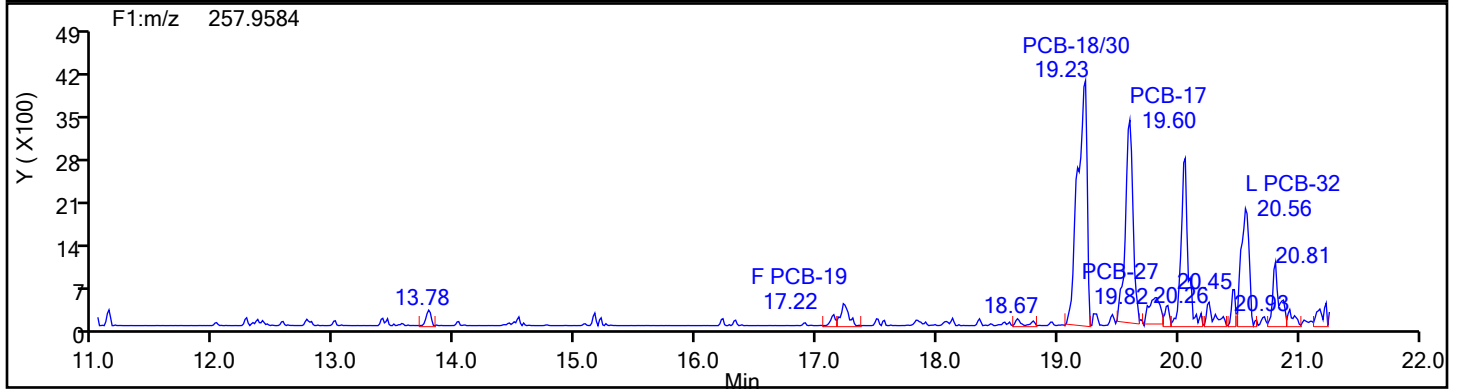
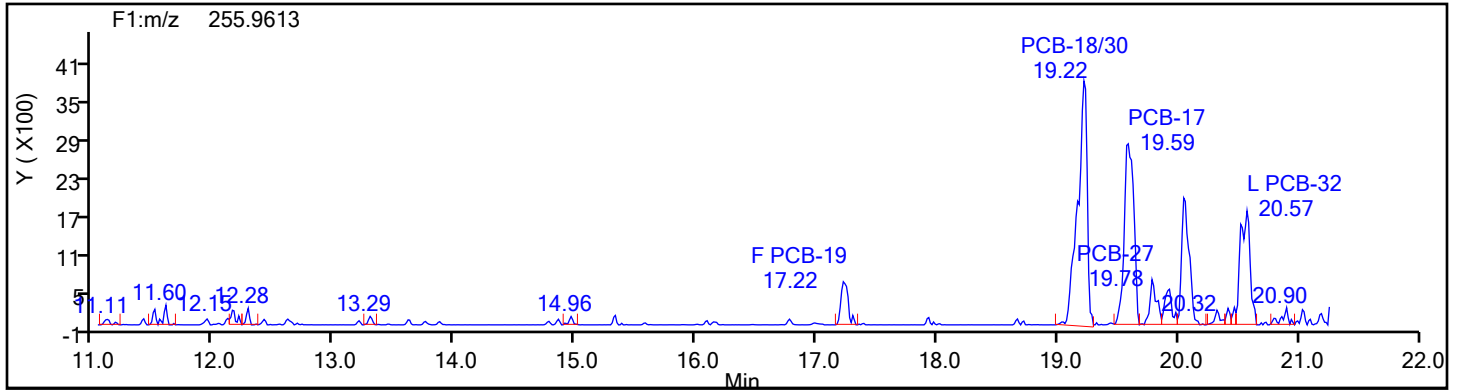
Reviewer: P0IK, 28-Jun-2024 12:05:20 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

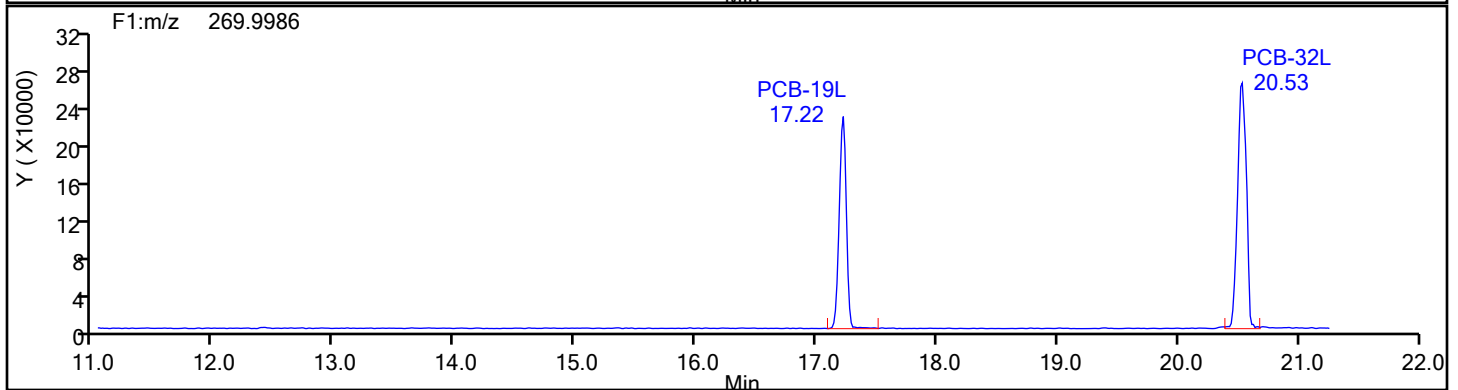
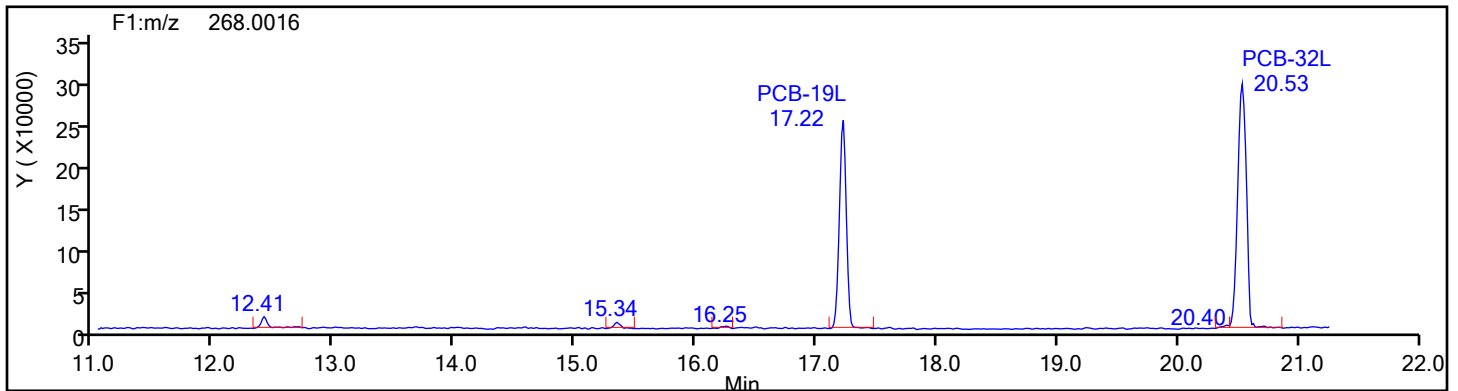
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-2-c.d  
Injection Date: 28-Jun-2024 05:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



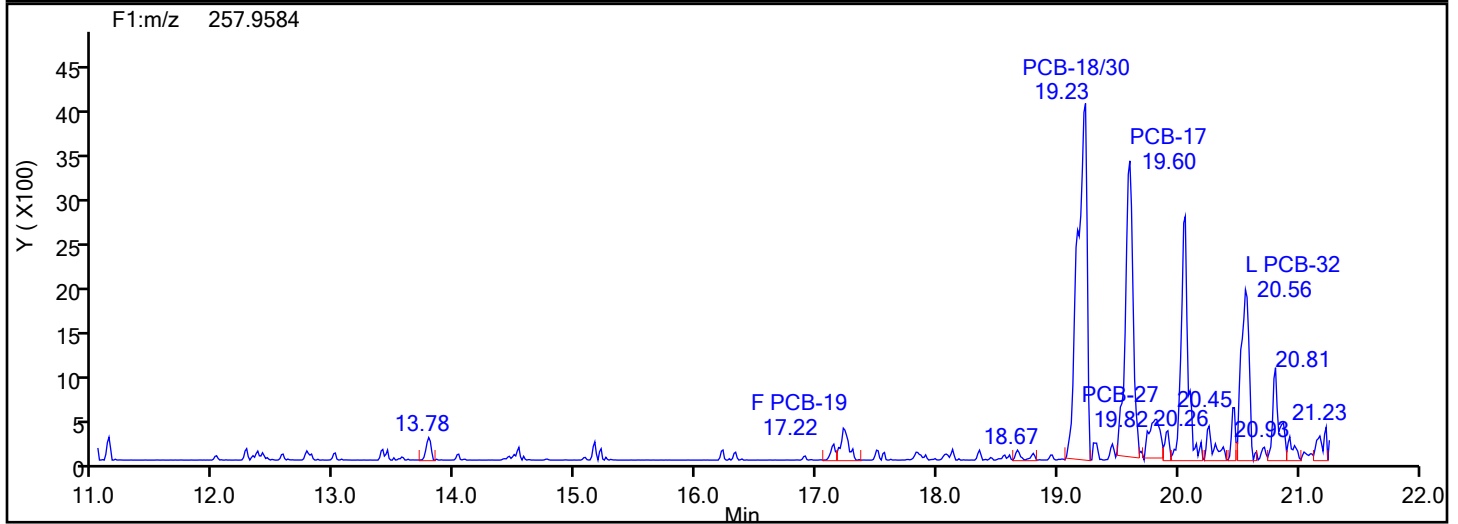
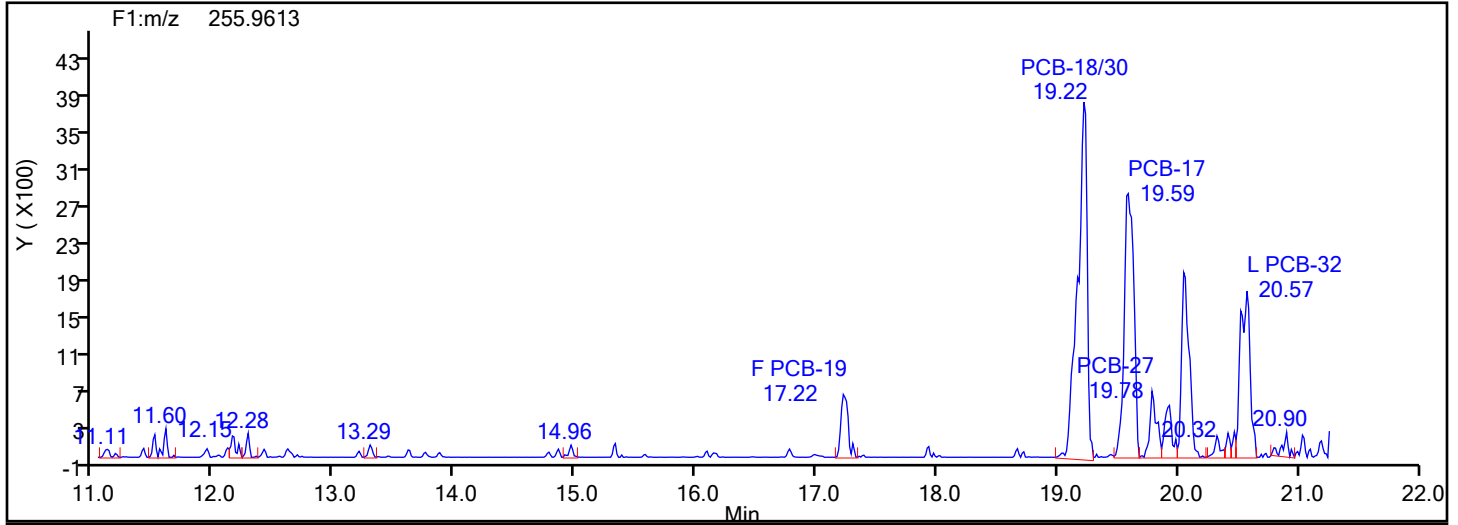
## TriPCB F1 Standards



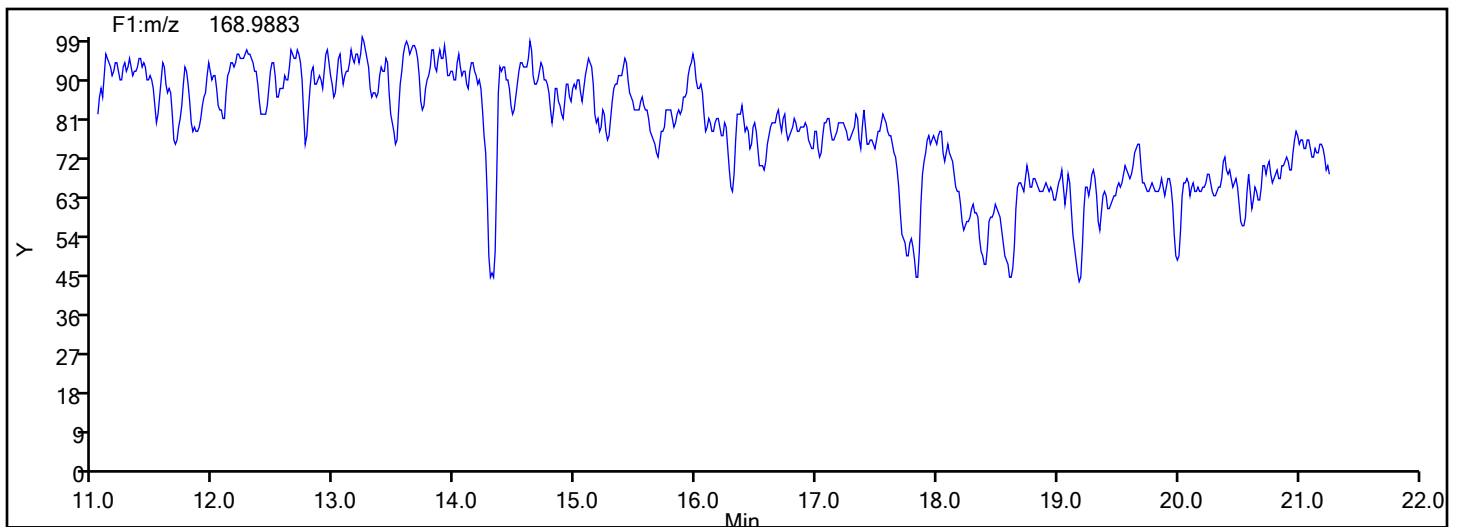


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 05:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Lock Mass



## Eurofins Knoxville

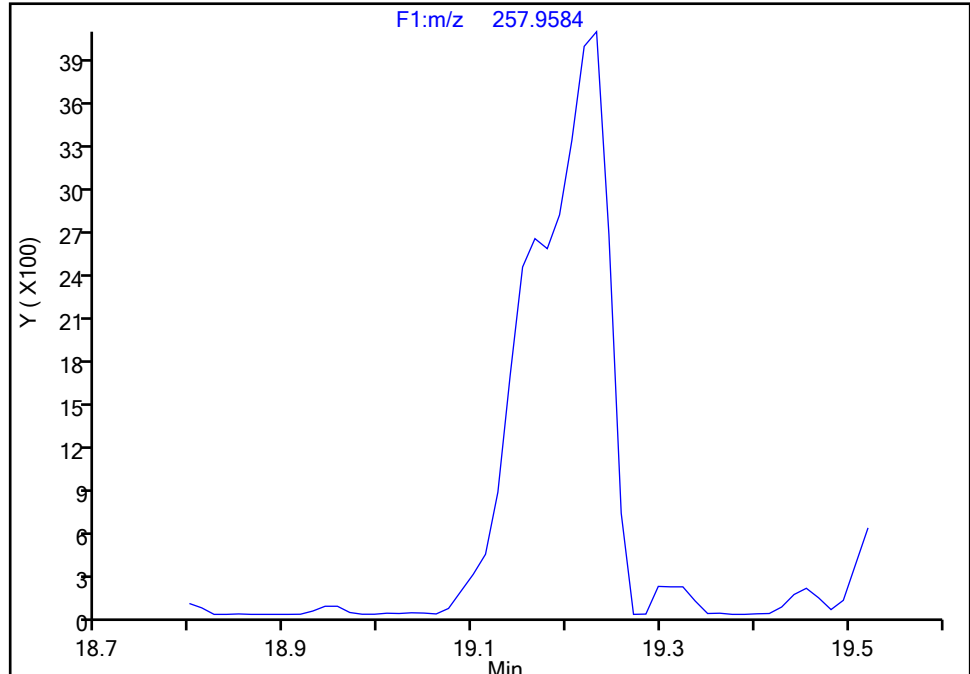
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Injection Date: 28-Jun-2024 05:01:00 Instrument ID: D2D  
Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1\IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F1(11.07 :21.70 )

PCB-18/30, CAS: STL01798

Signal: 2

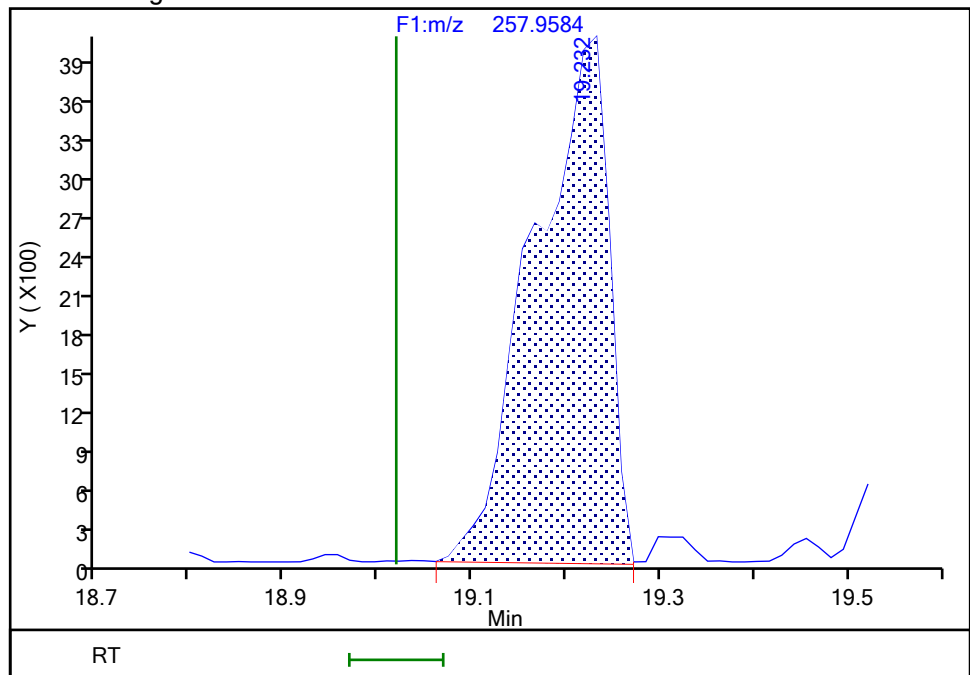
Not Detected  
Expected RT: 19.02

## Processing Integration Results



RT: 19.23  
Area: 22205  
Amount: 1.263100  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 12:54:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

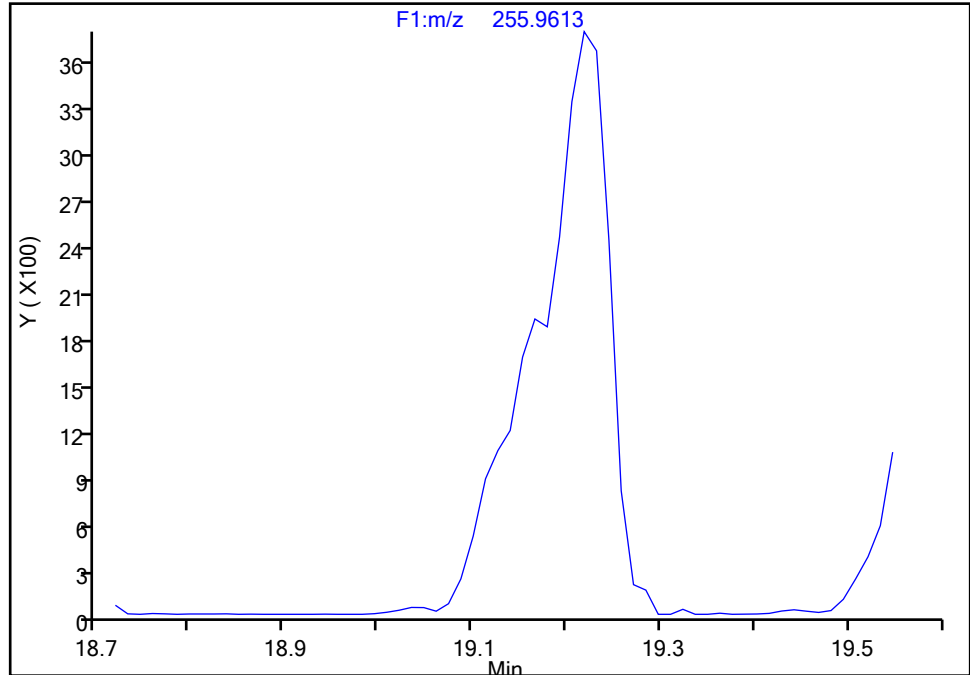
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-2-c.d  
Injection Date: 28-Jun-2024 05:01:00 Instrument ID: D2D  
Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F1(11.07 :21.70 )

**PCB-18/30, CAS: STL01798**

Signal: 1

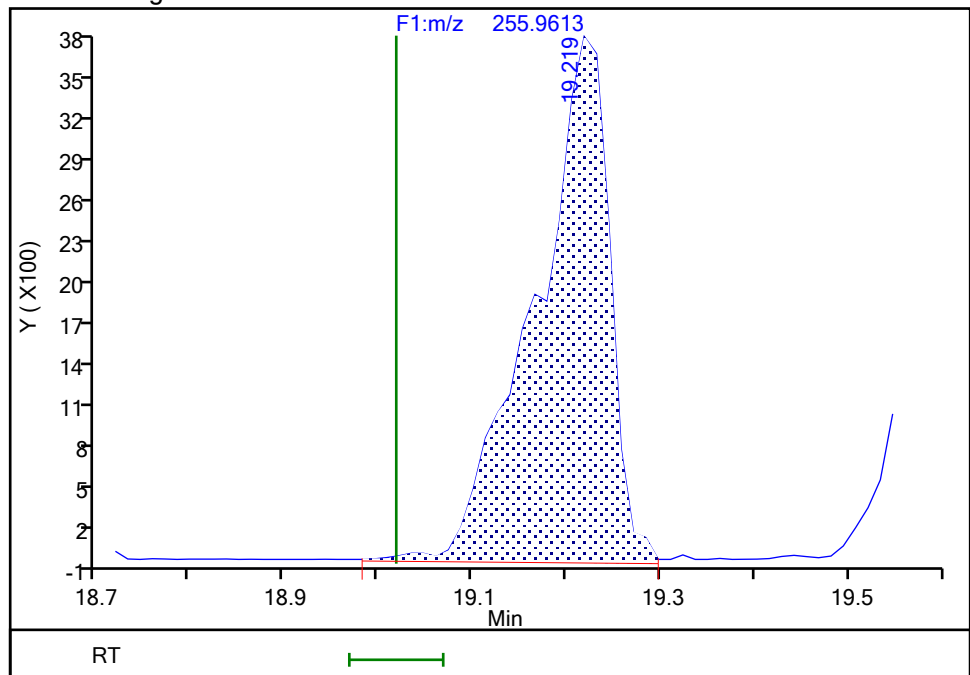
Not Detected  
Expected RT: 19.02

## Processing Integration Results



RT: 19.22  
Area: 20822  
Amount: 1.263100  
Amount Units: pg/ul

## Manual Integration Results



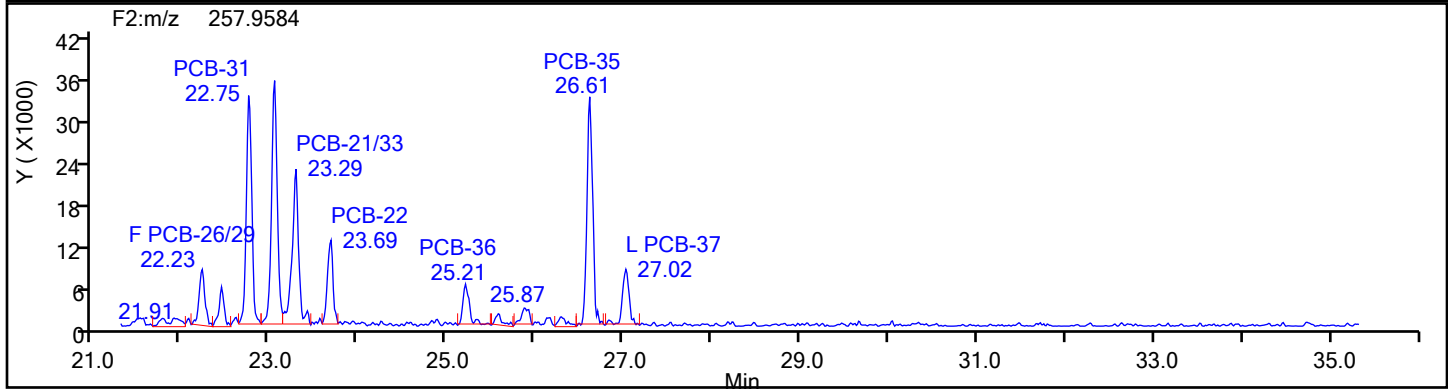
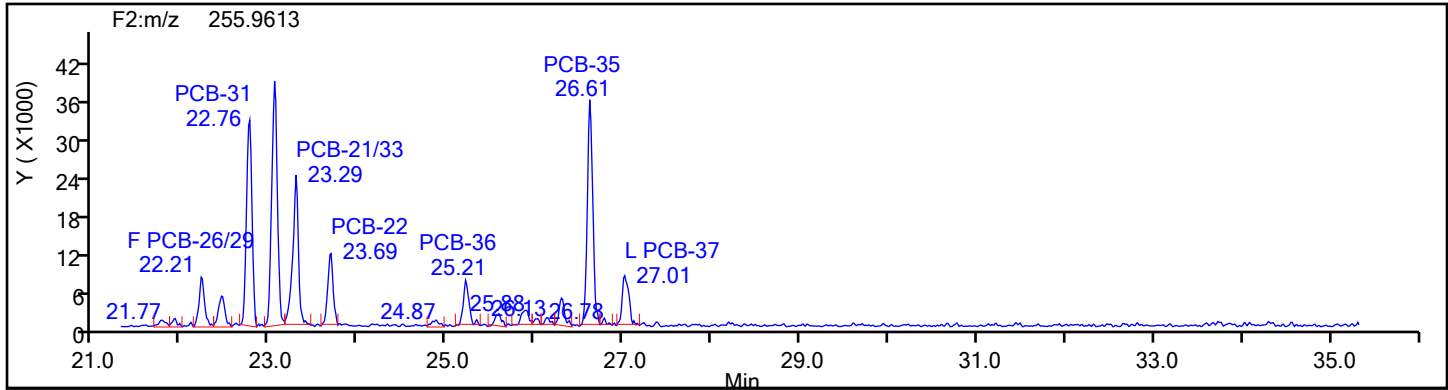
Reviewer: P0IK, 28-Jun-2024 12:54:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

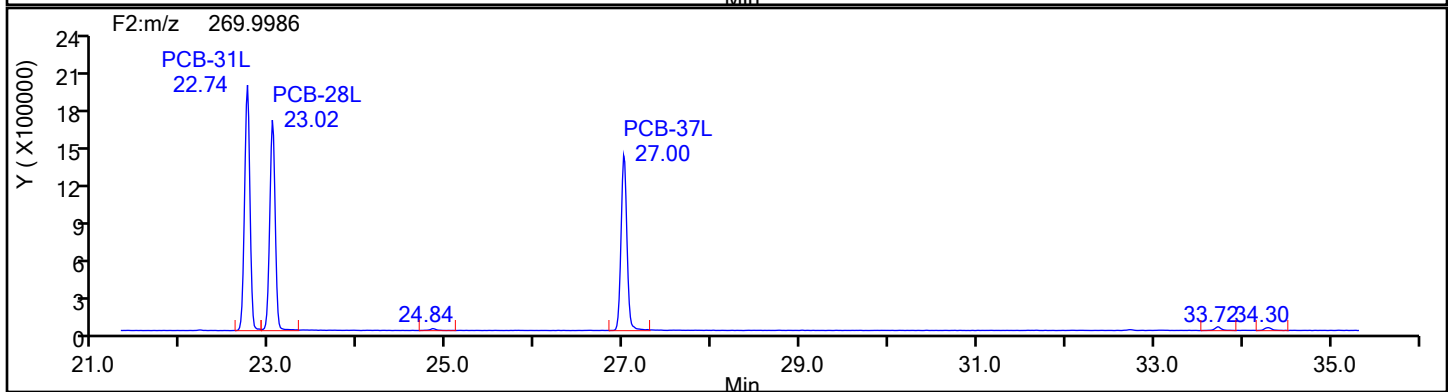
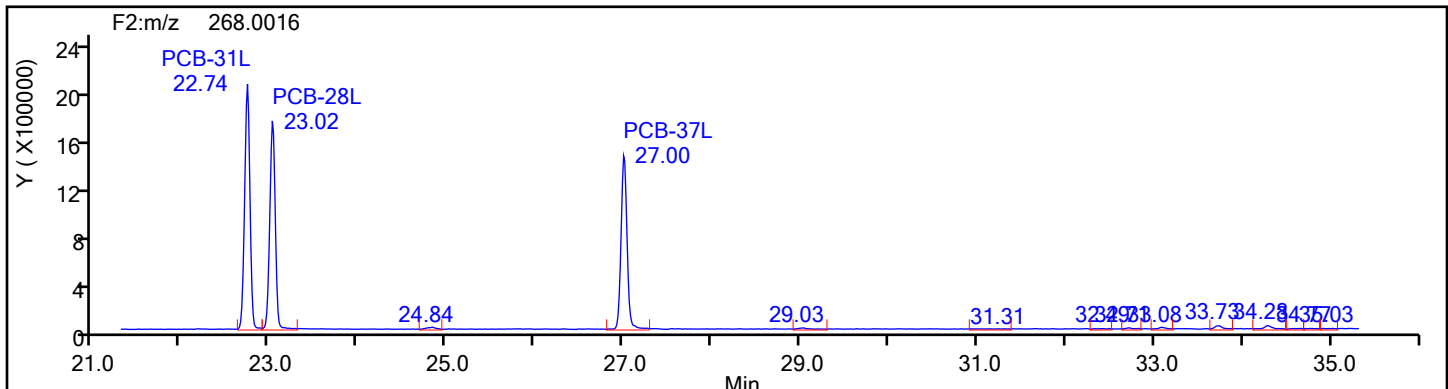
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-2-c.d  
Injection Date: 28-Jun-2024 05:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

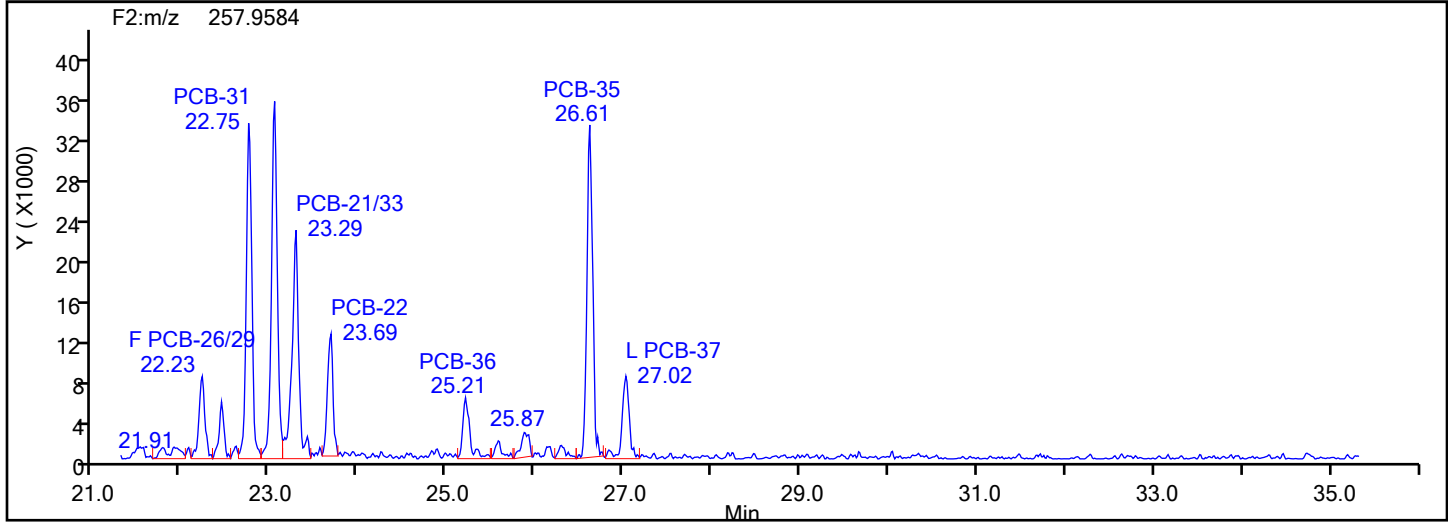
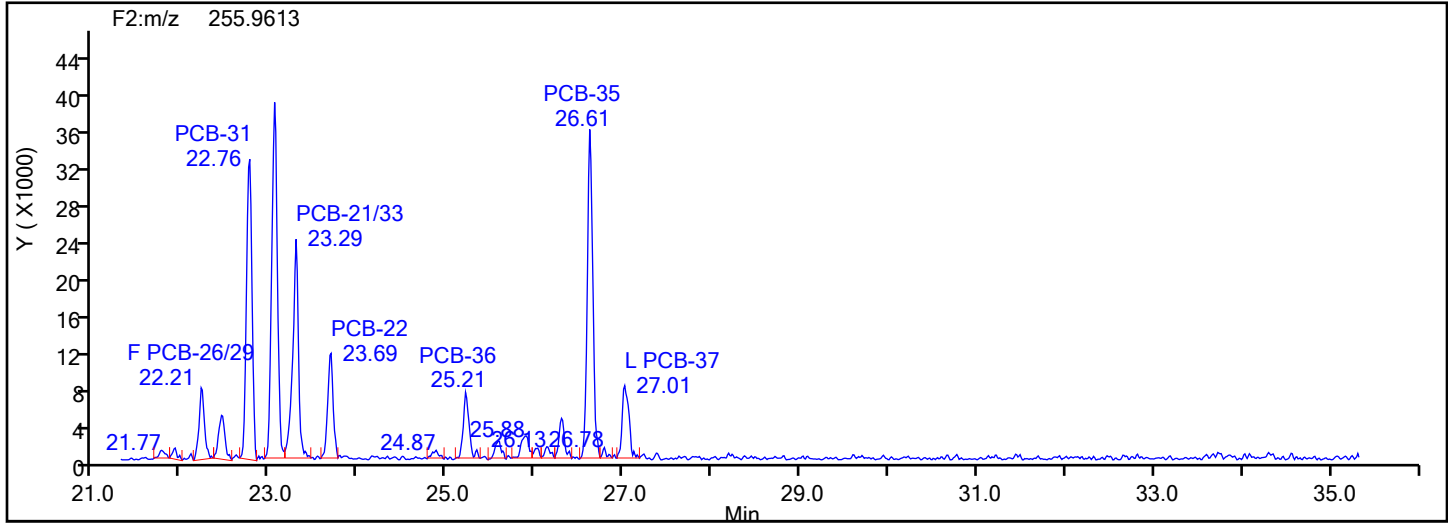


## TriPCB F2 Standards

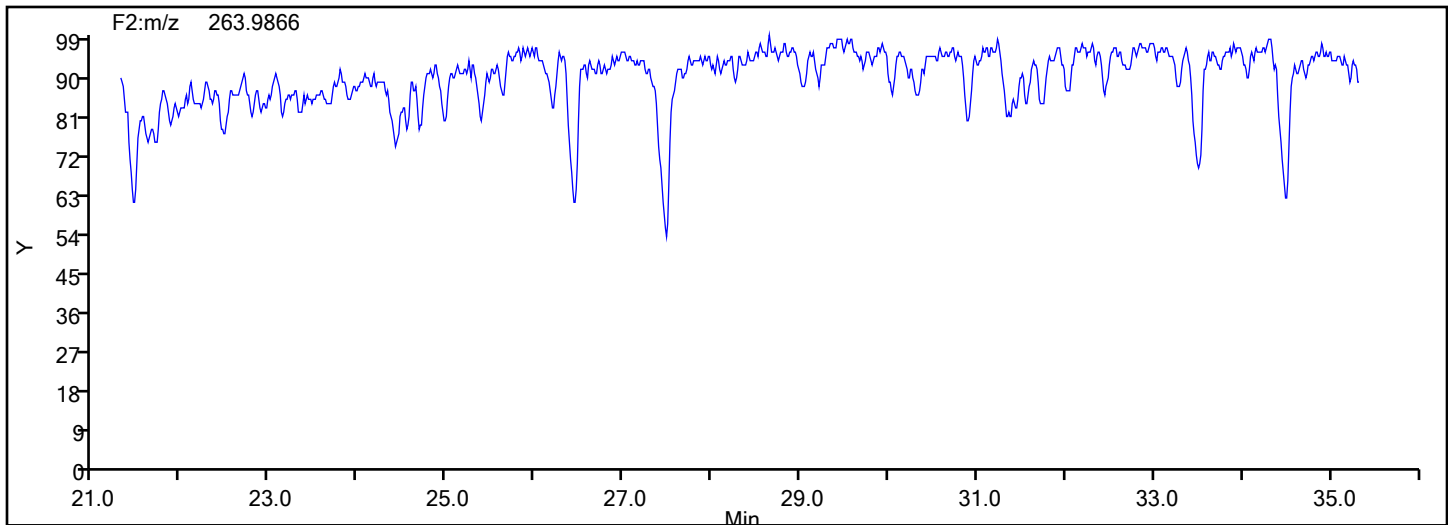


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1\IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

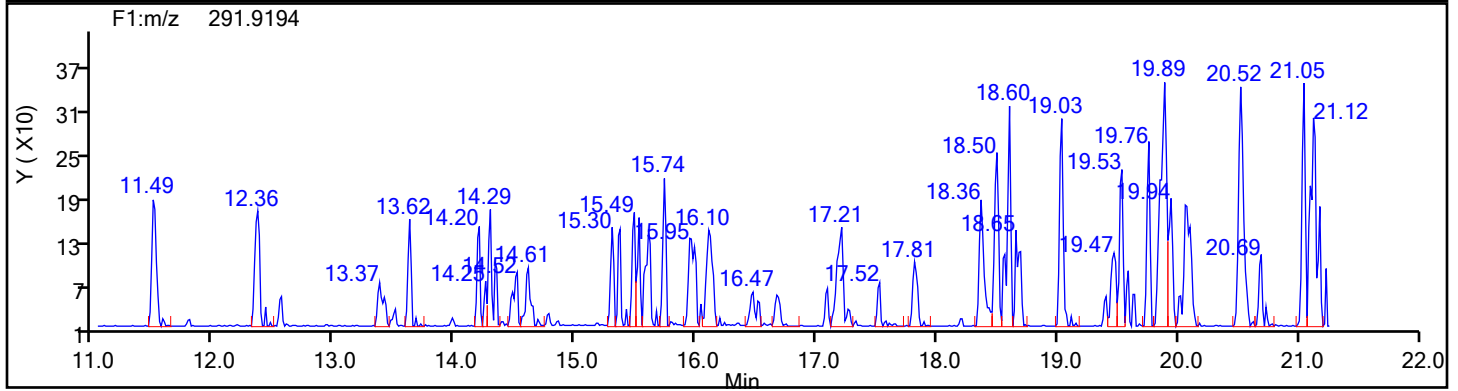
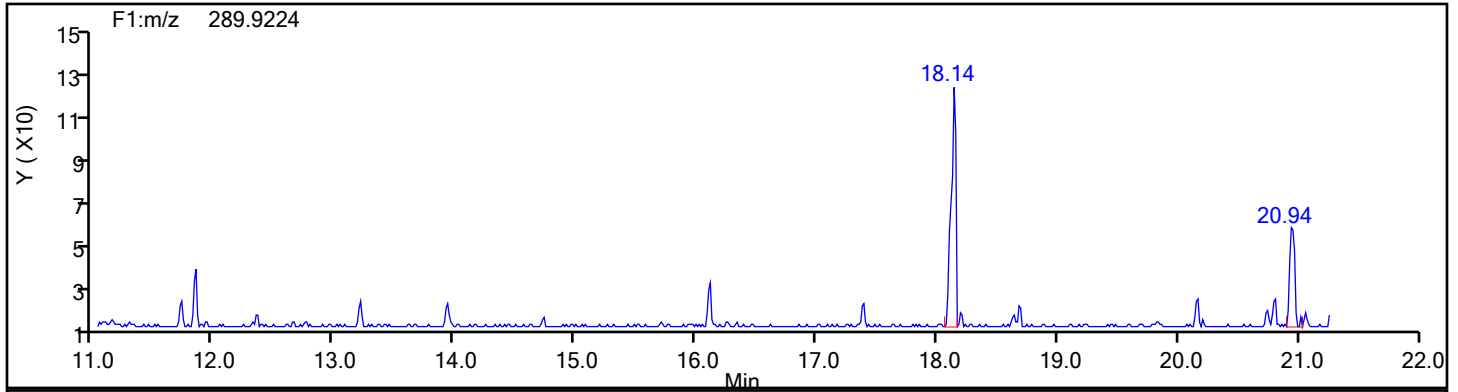


## TriPCB F2 Lock Mass

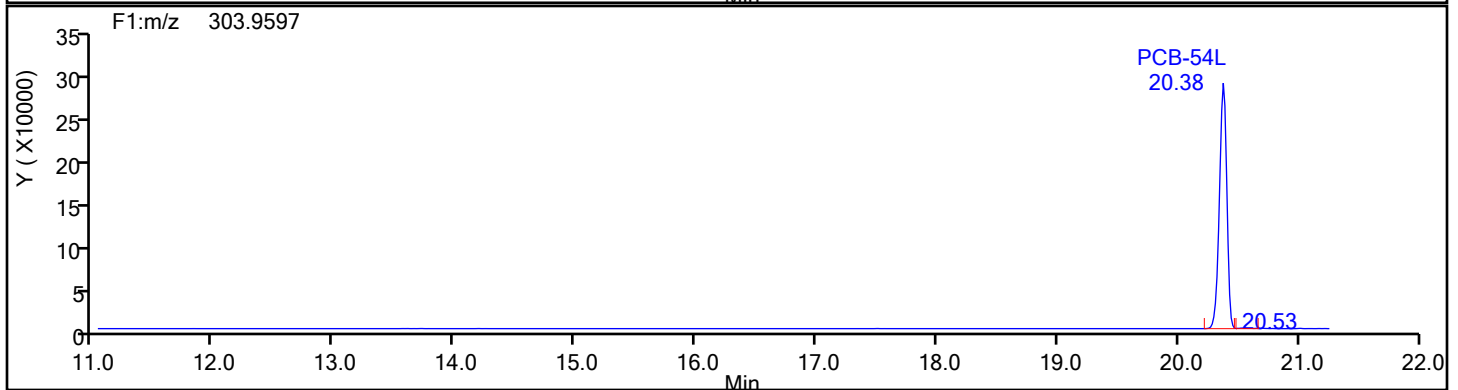
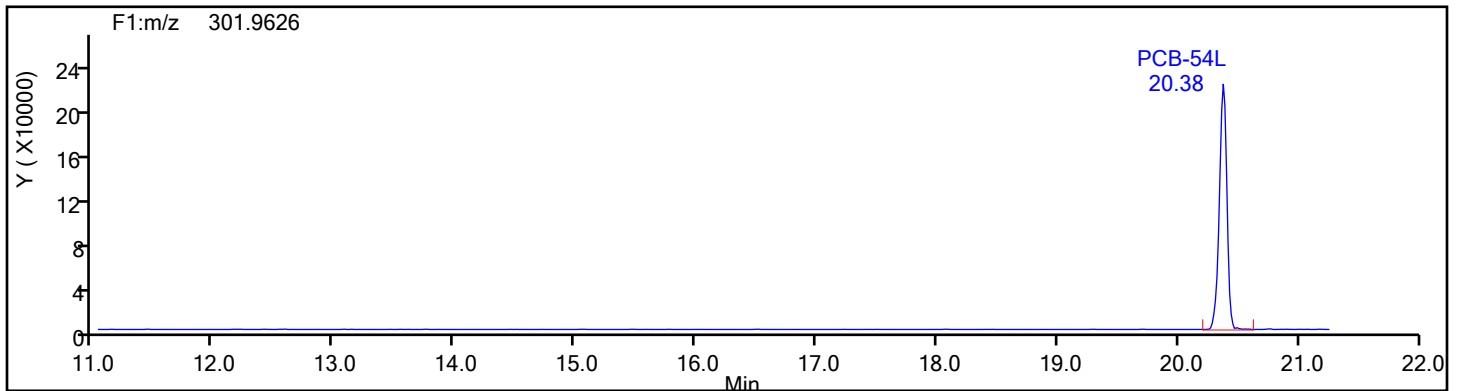


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

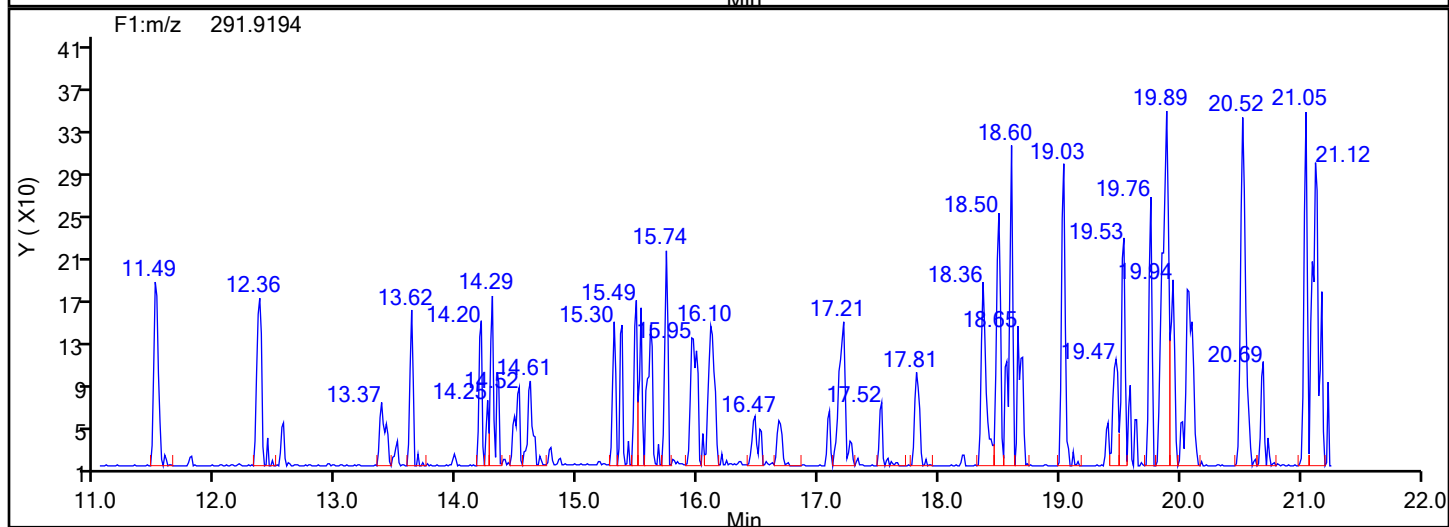
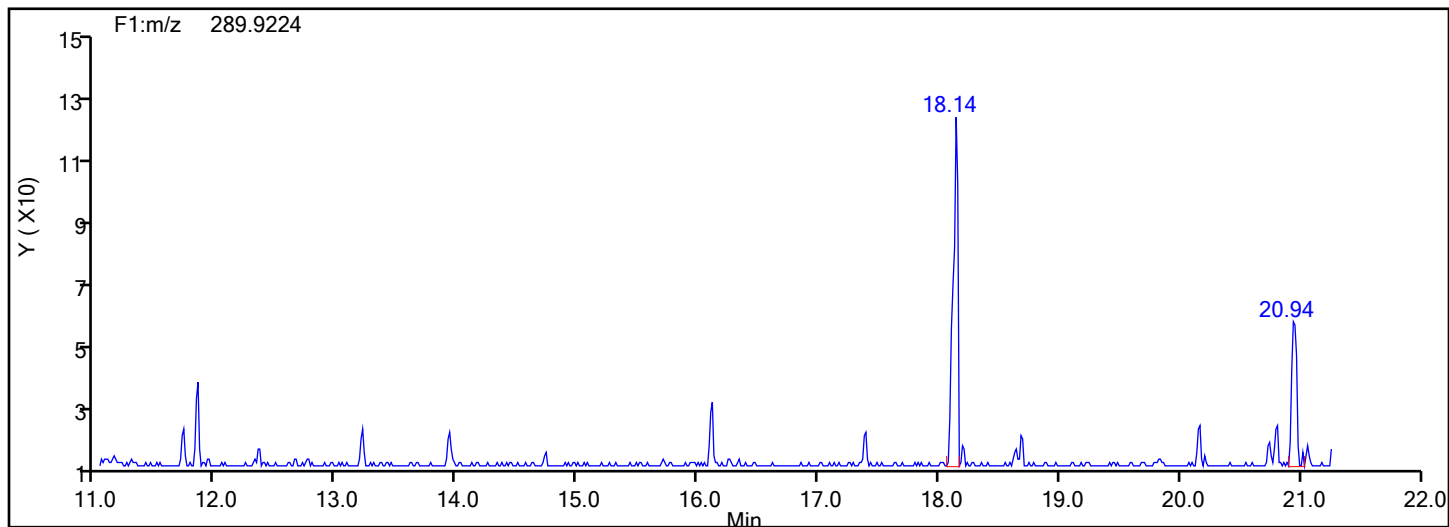


## TePCB F1 Standards

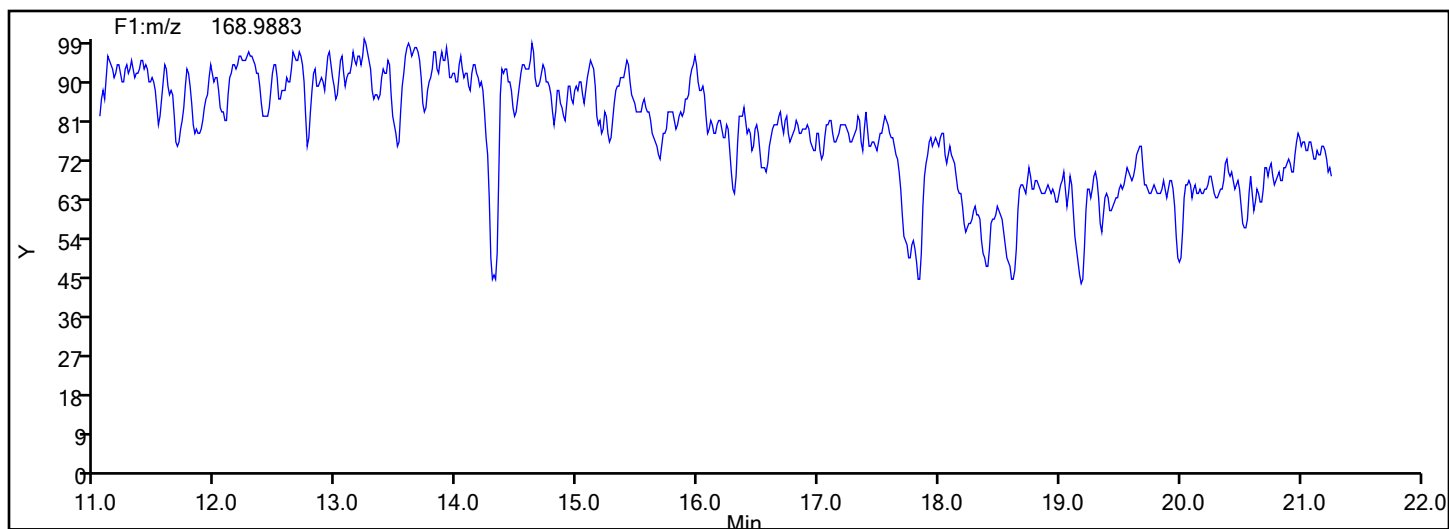


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

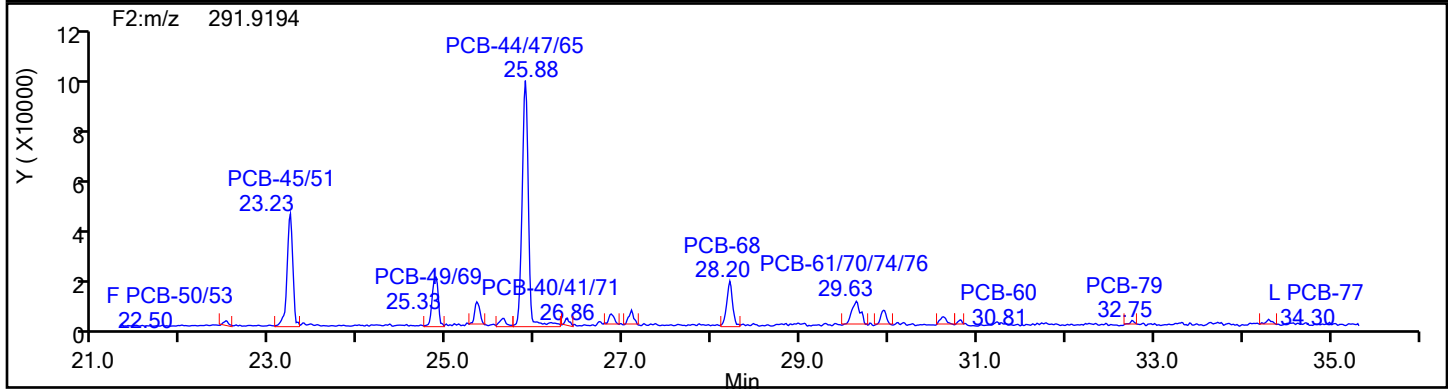
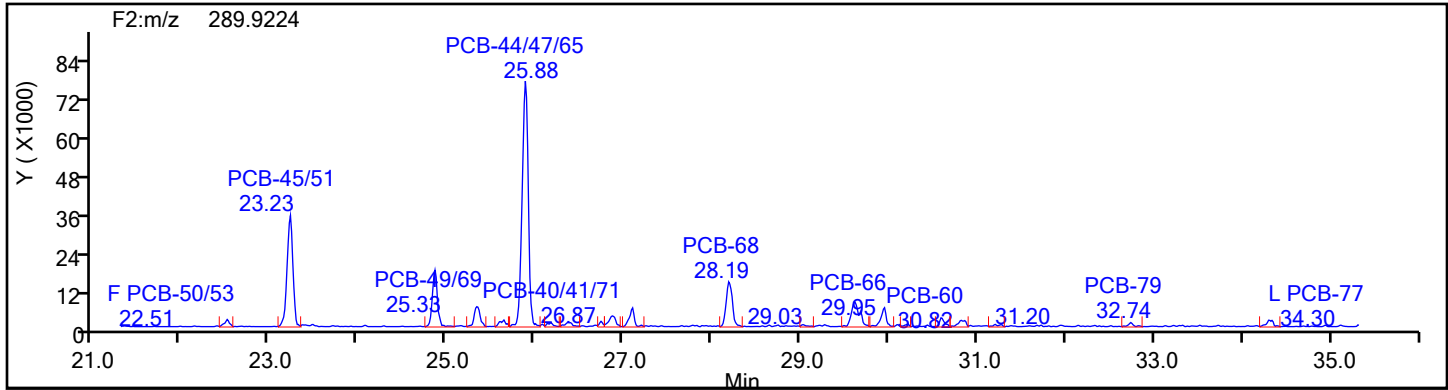


## TePCB F1 Lock Mass

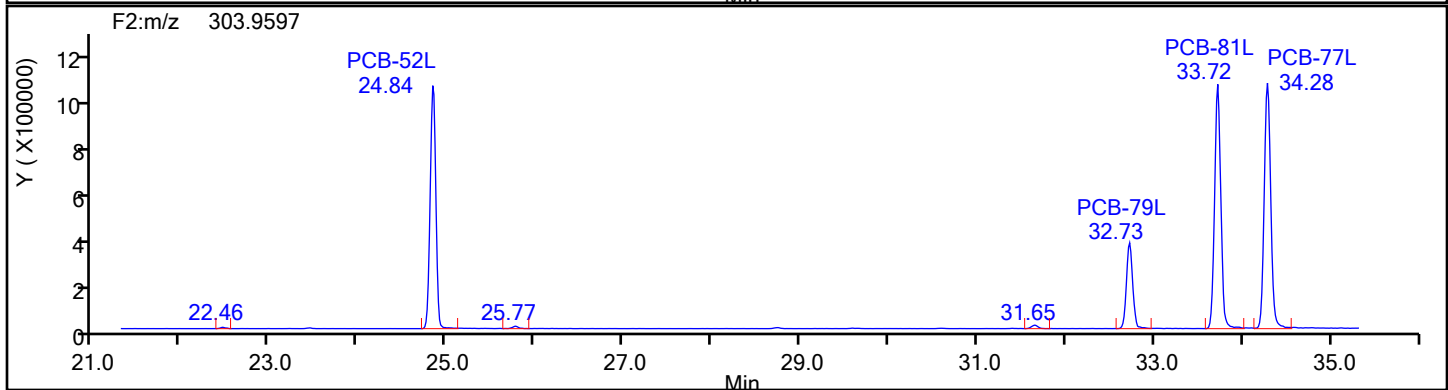
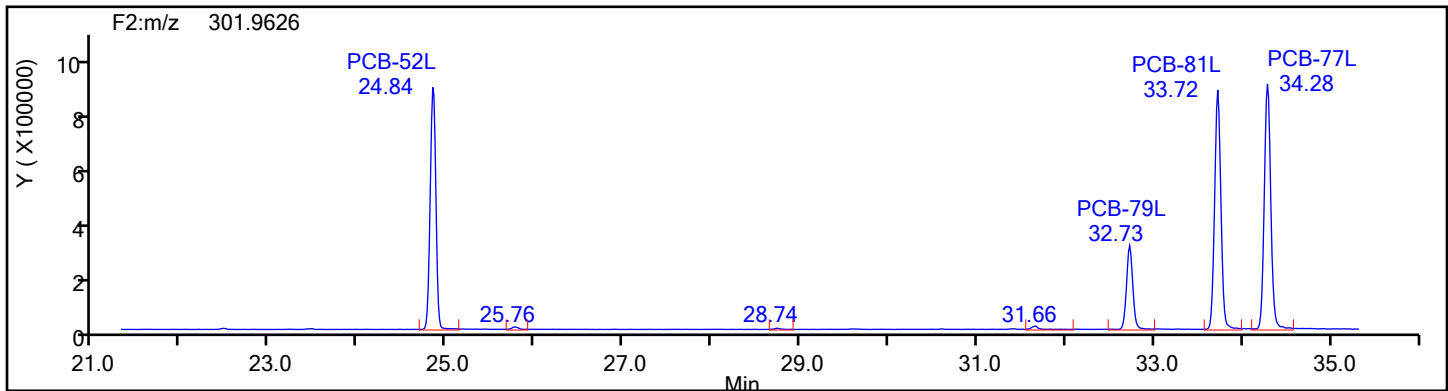


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2



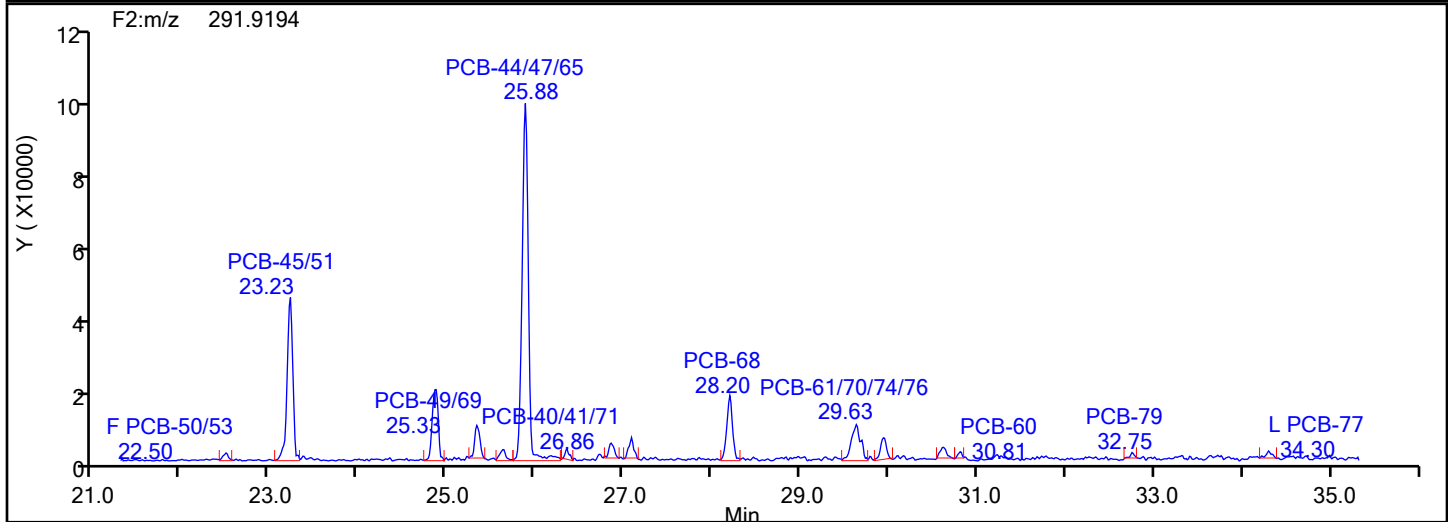
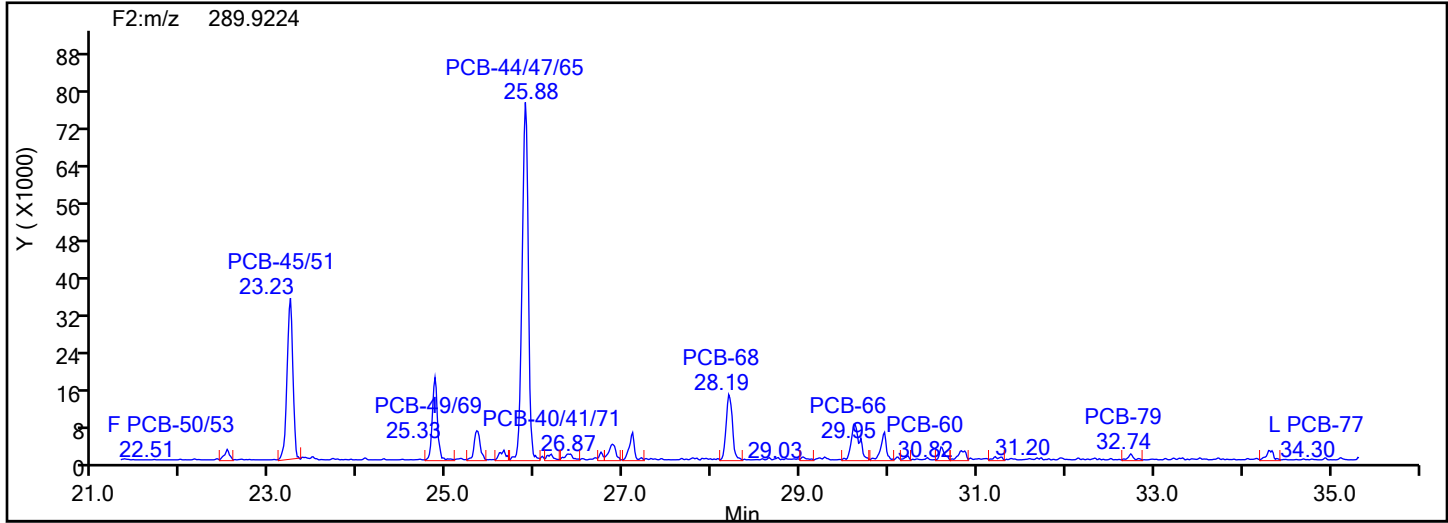
## TePCB F2 Standards



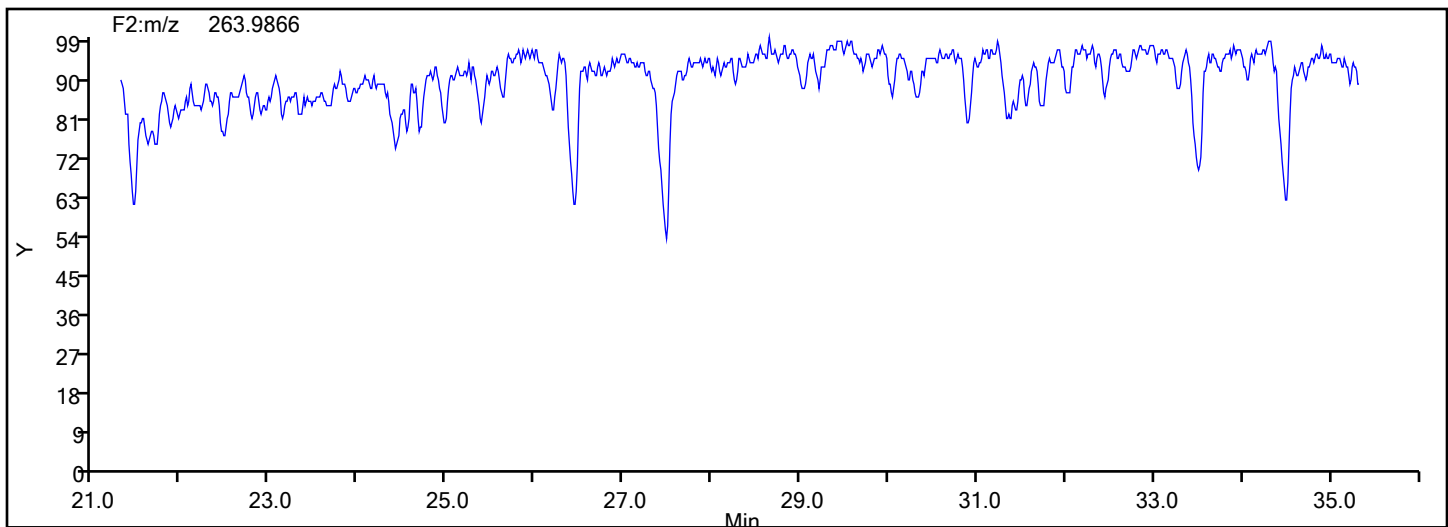


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

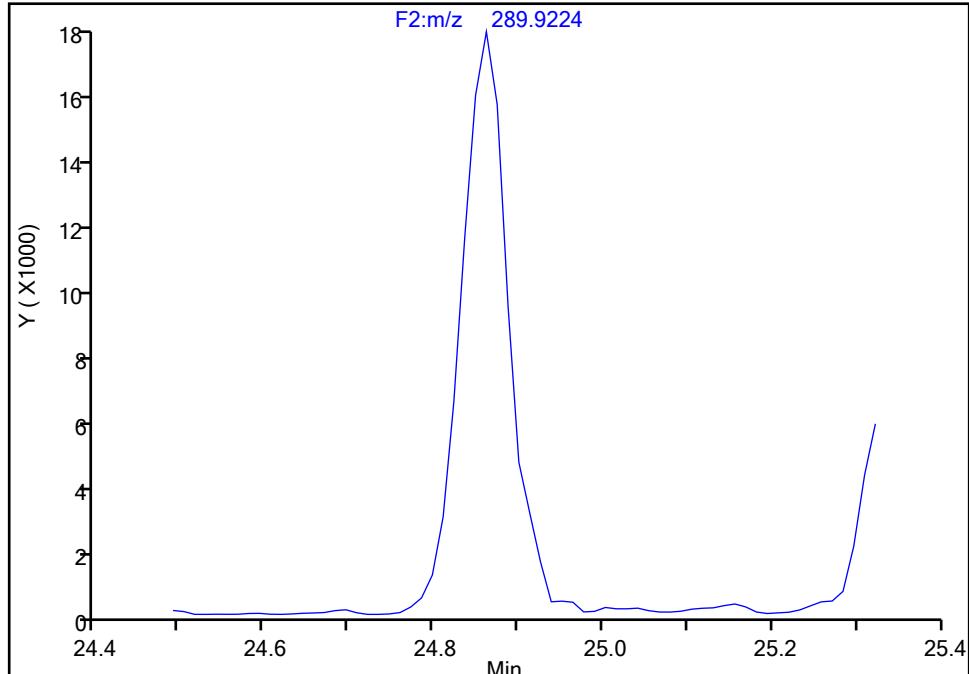
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Injection Date: 28-Jun-2024 05:01:00 Instrument ID: D2D  
Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

**PCB-52, CAS: 35693-99-3**

Signal: 1

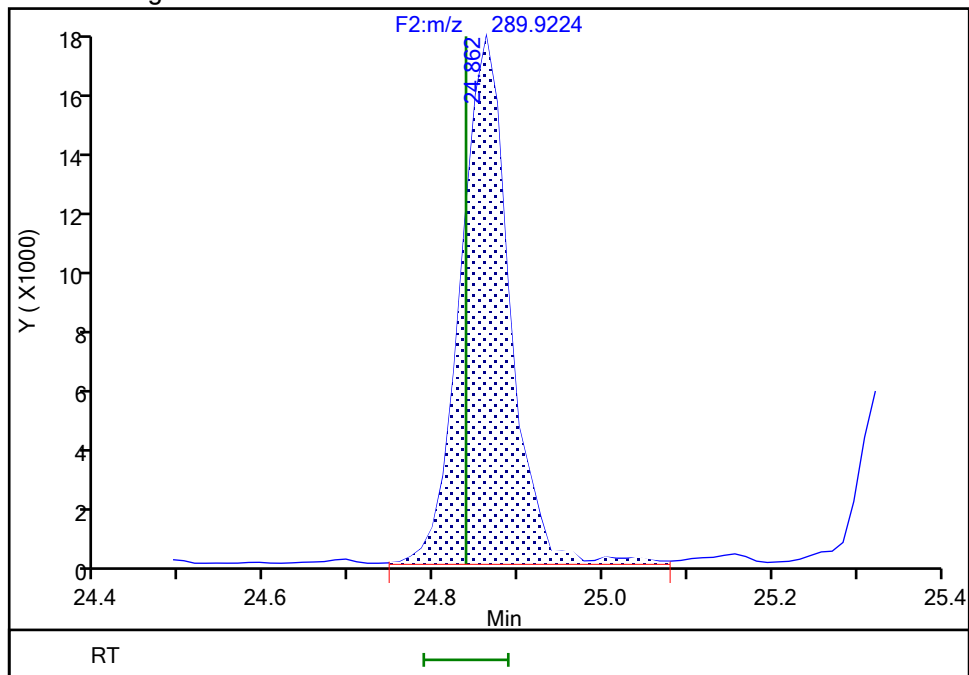
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Expected RT: 24.84

## Processing Integration Results



RT: 24.86  
Area: 71424  
Amount: 1.847577  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 12:12:13 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

## Eurofins Knoxville

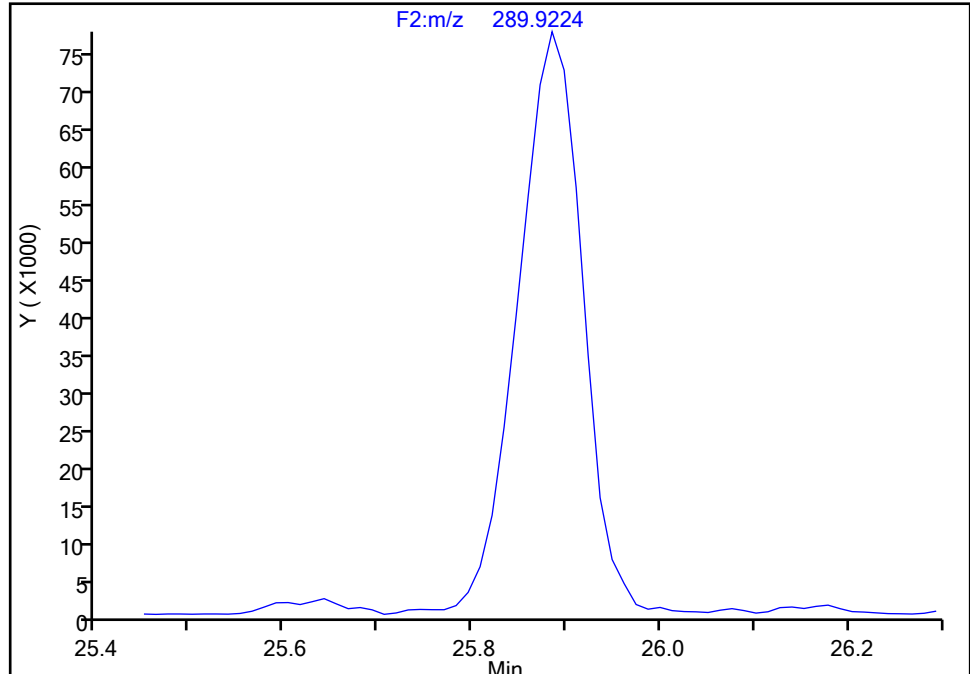
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Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1\IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

**PCB-44/47/65, CAS: STL01803**

Signal: 1

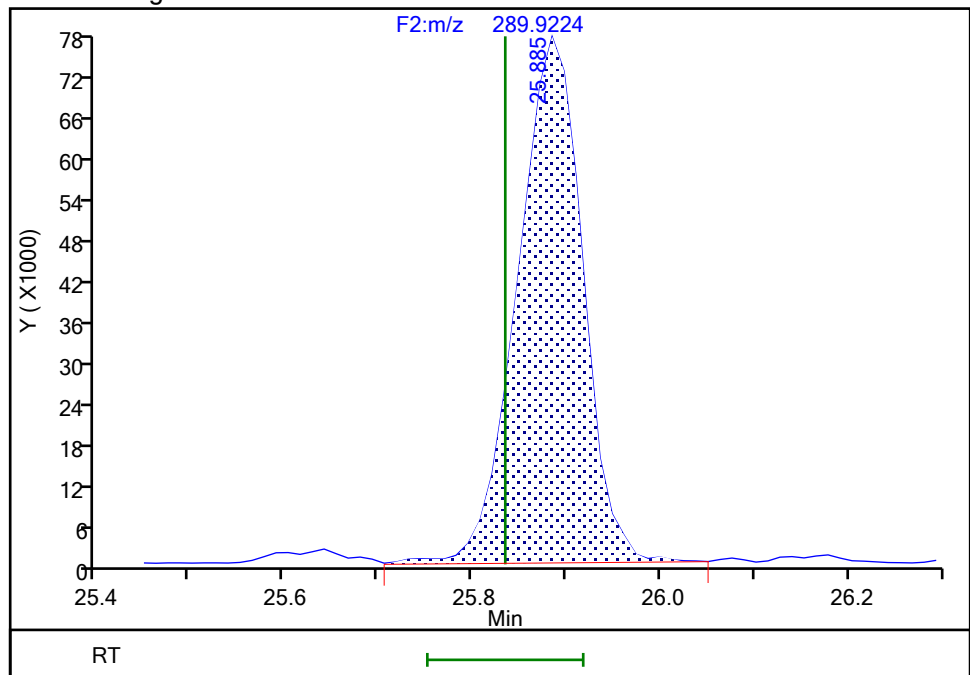
Not Detected  
Expected RT: 25.83

## Processing Integration Results



RT: 25.88  
Area: 372517  
Amount: 8.977222  
Amount Units: pg/ul

## Manual Integration Results



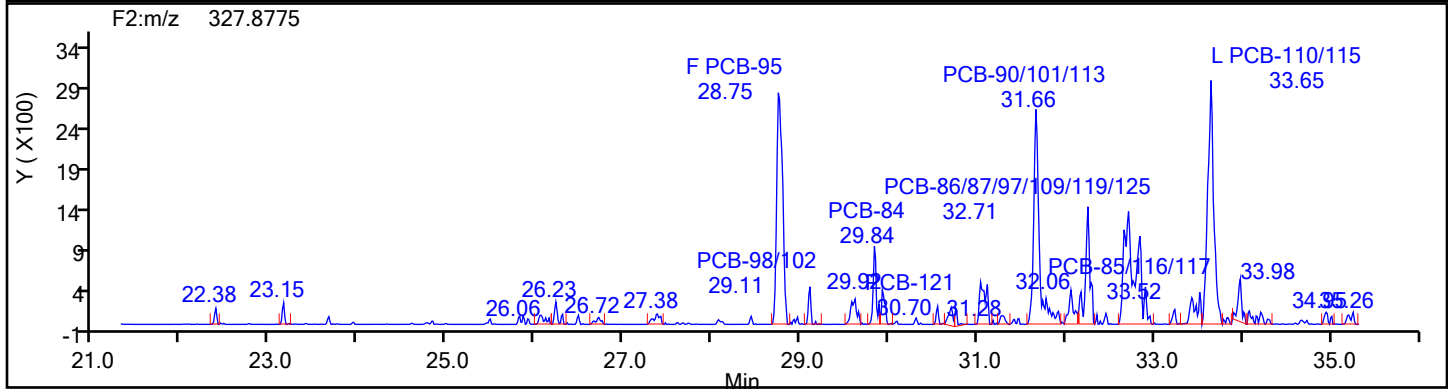
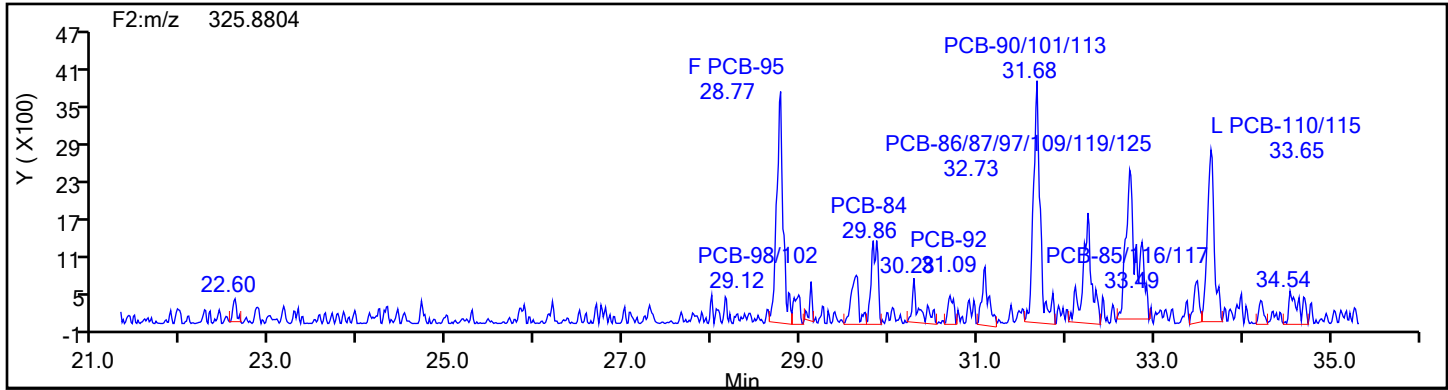
Reviewer: P0IK, 28-Jun-2024 12:12:29 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

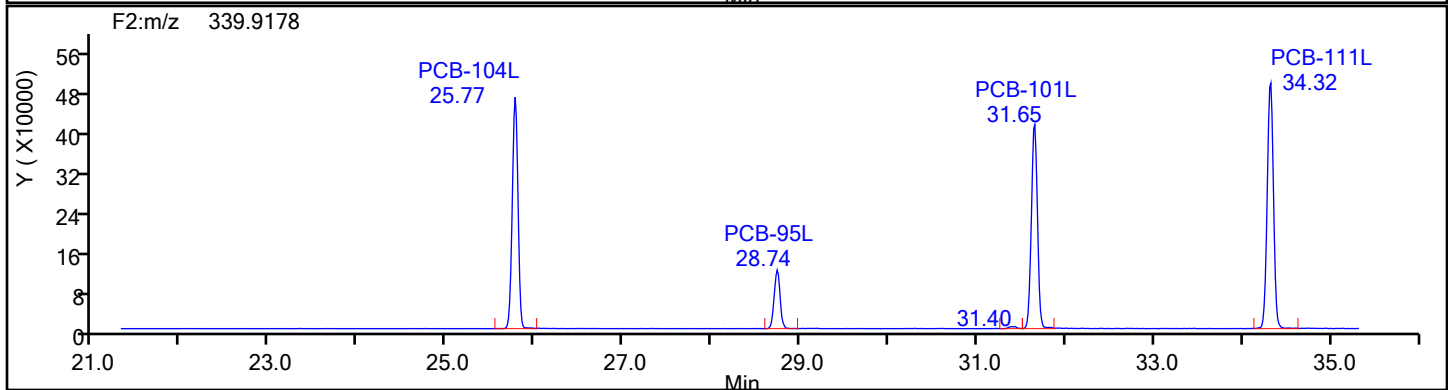
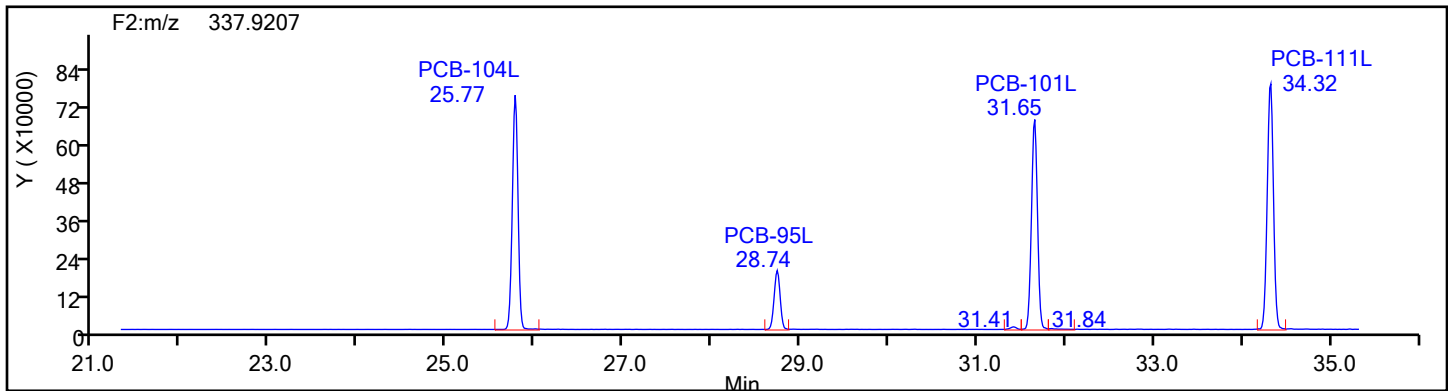
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

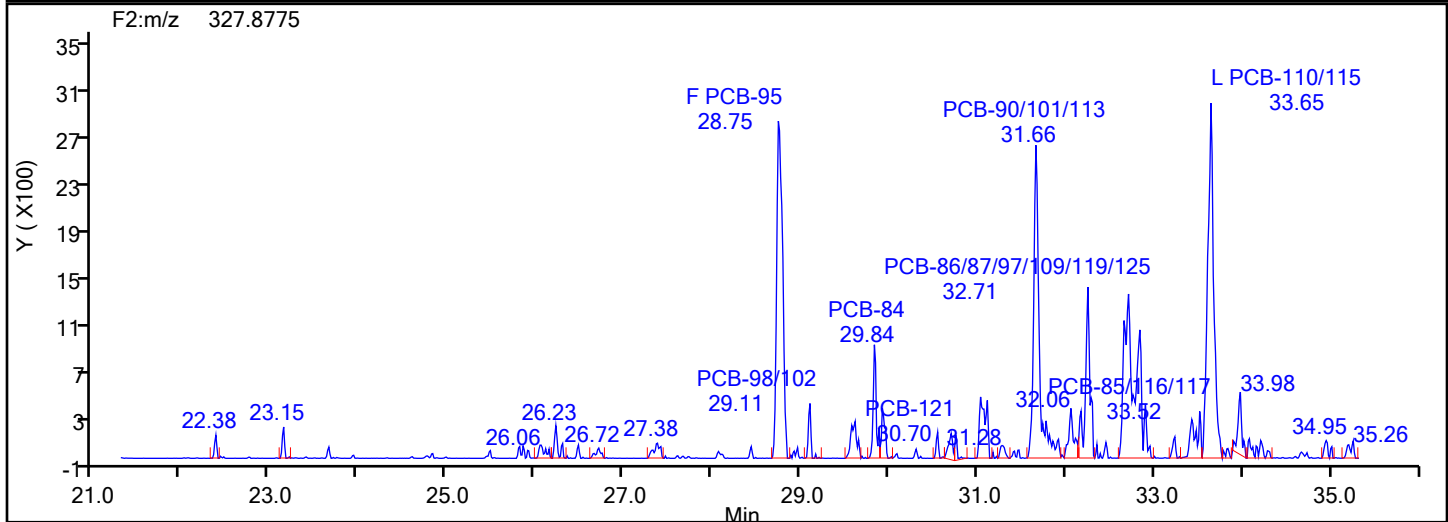
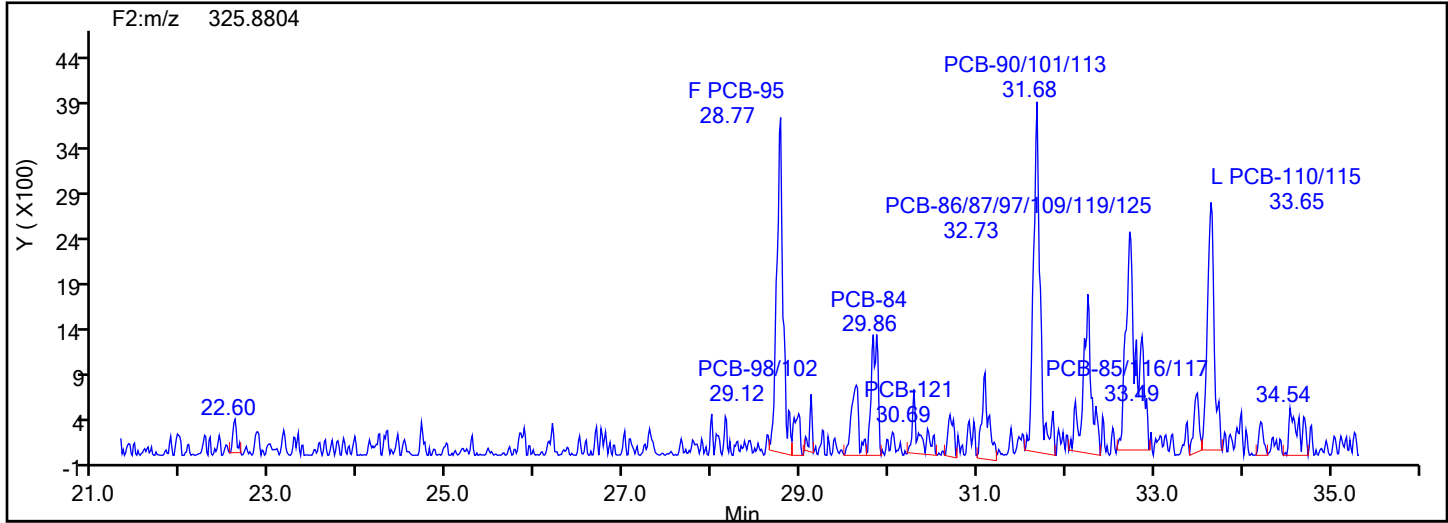


## PePCB F2 Standards

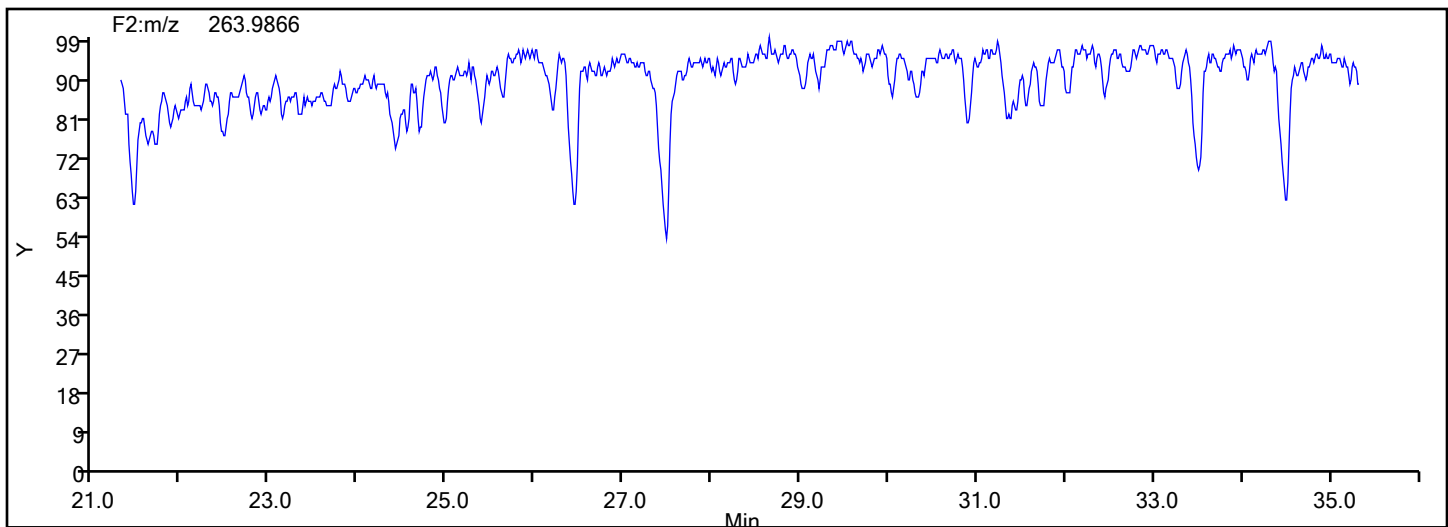


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

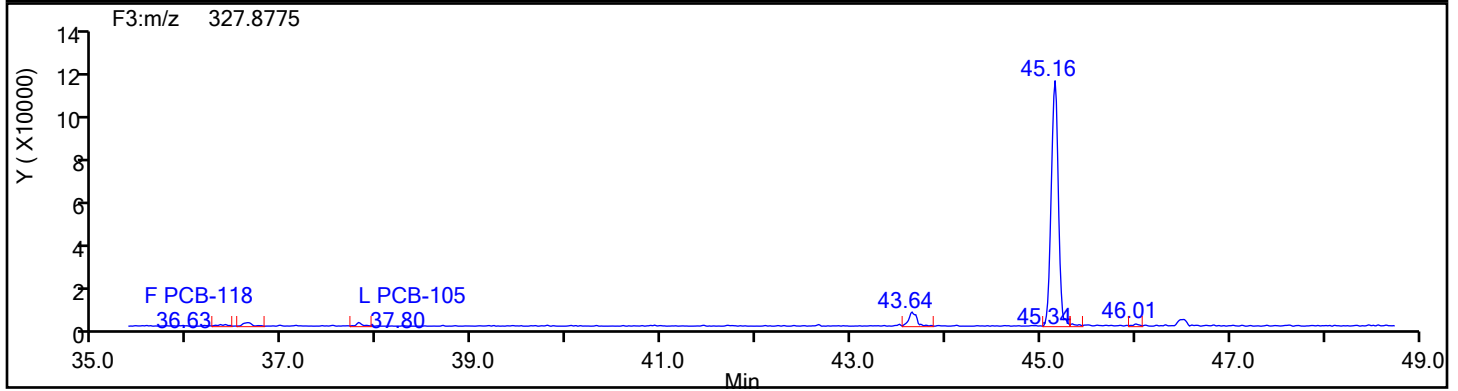
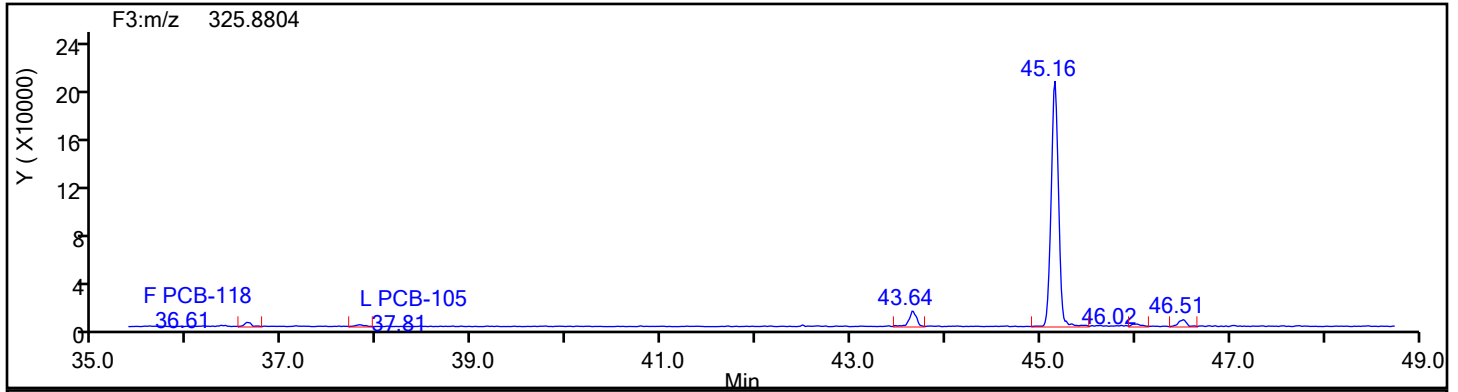


## PePCB F2 Lock Mass

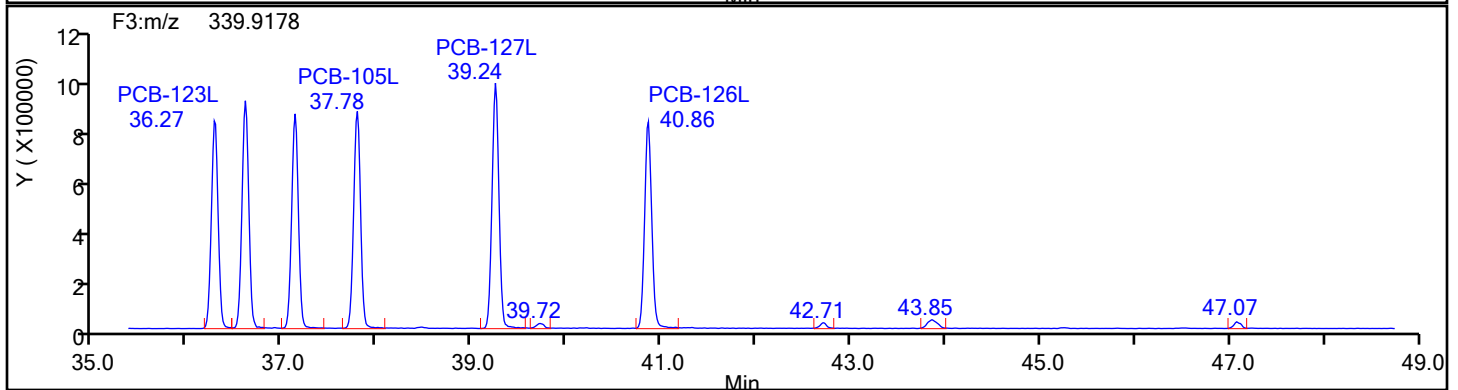
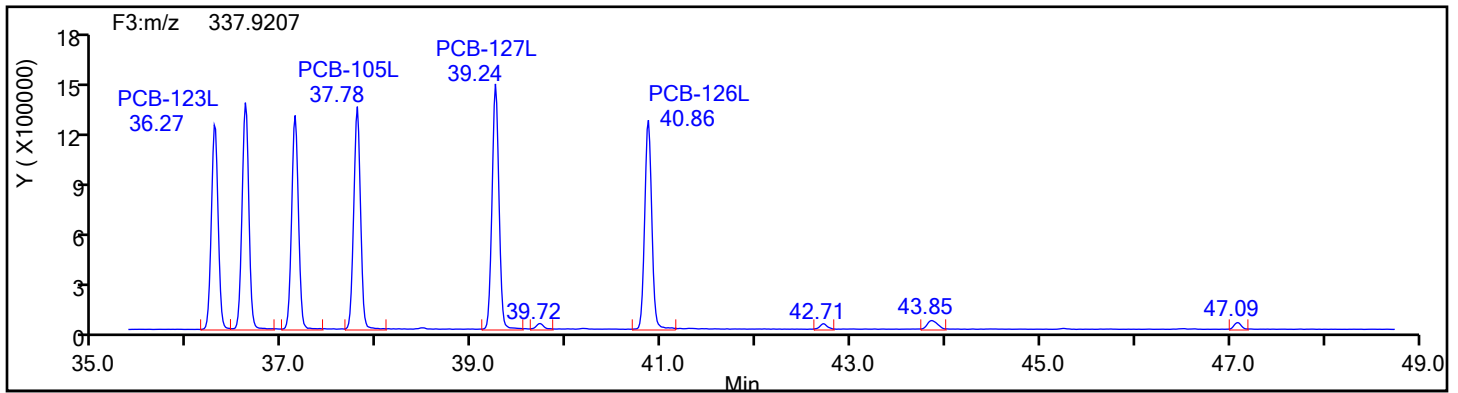


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

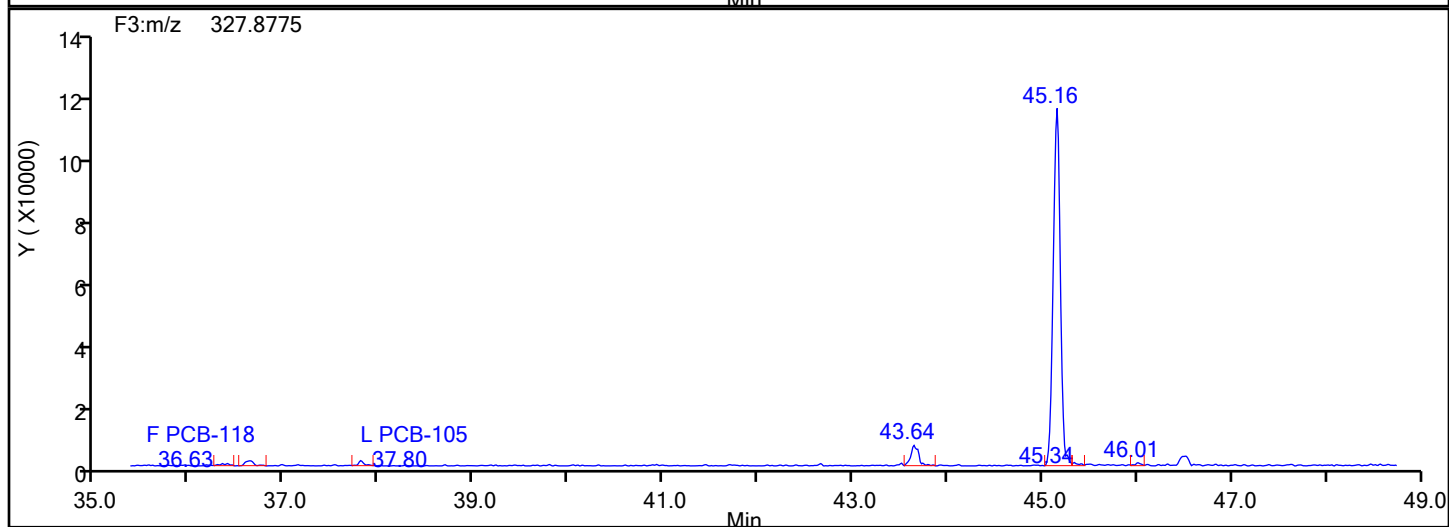
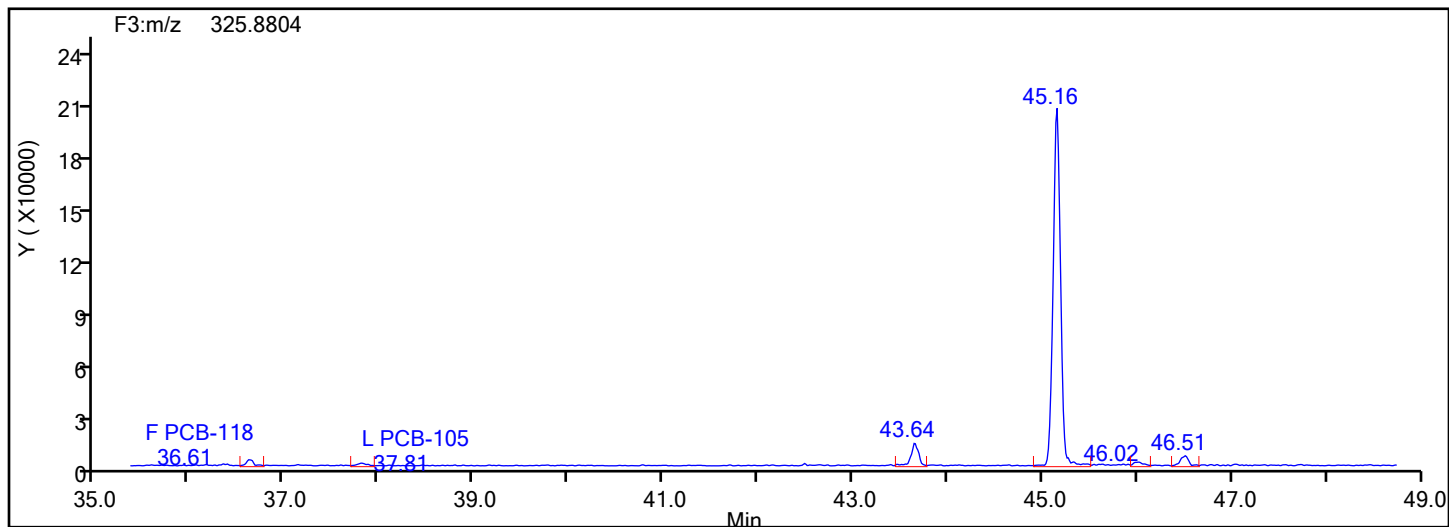


## PePCB F3 Standards

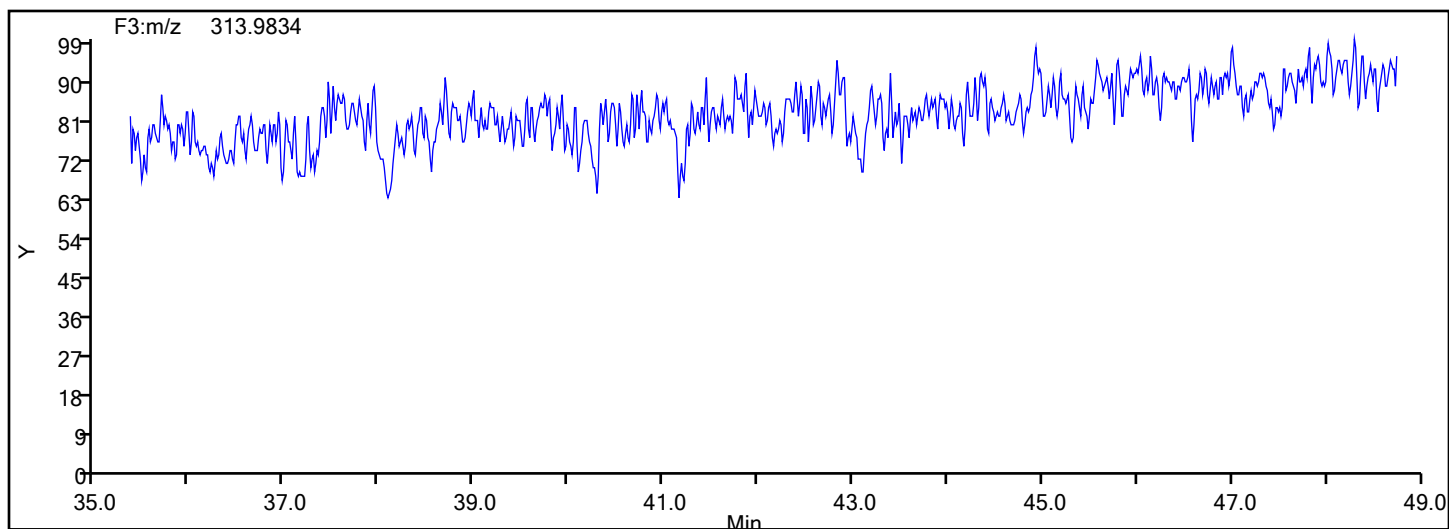


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

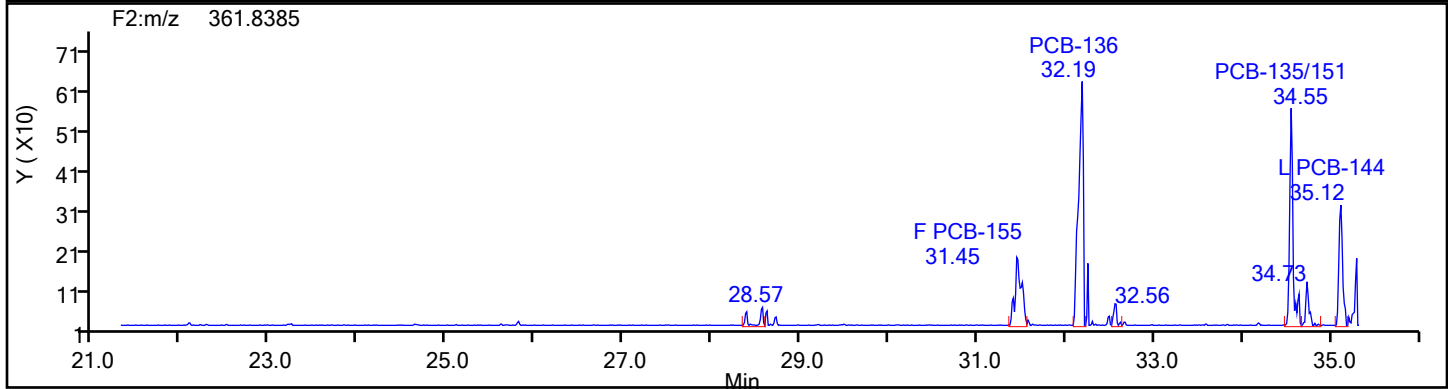
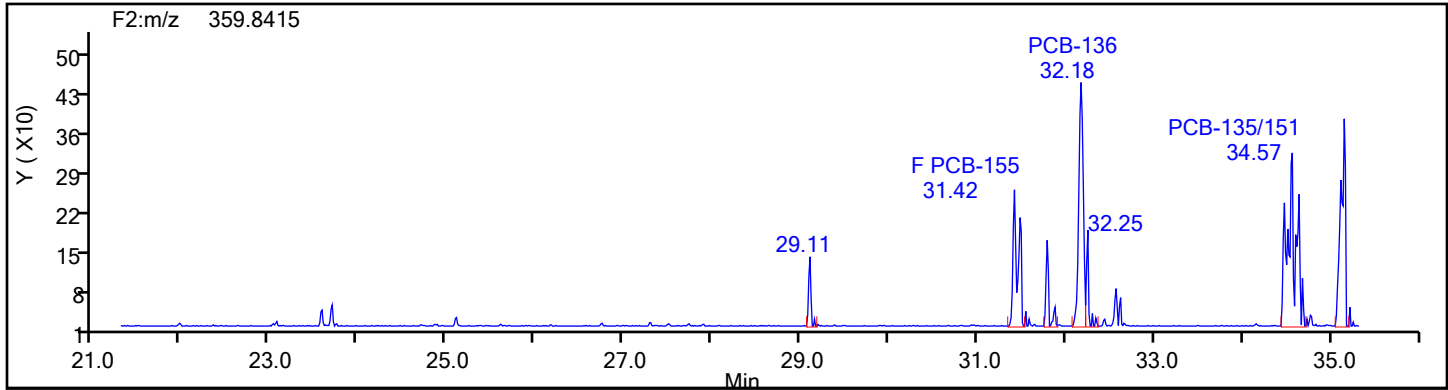


## PePCB F3 Lock Mass

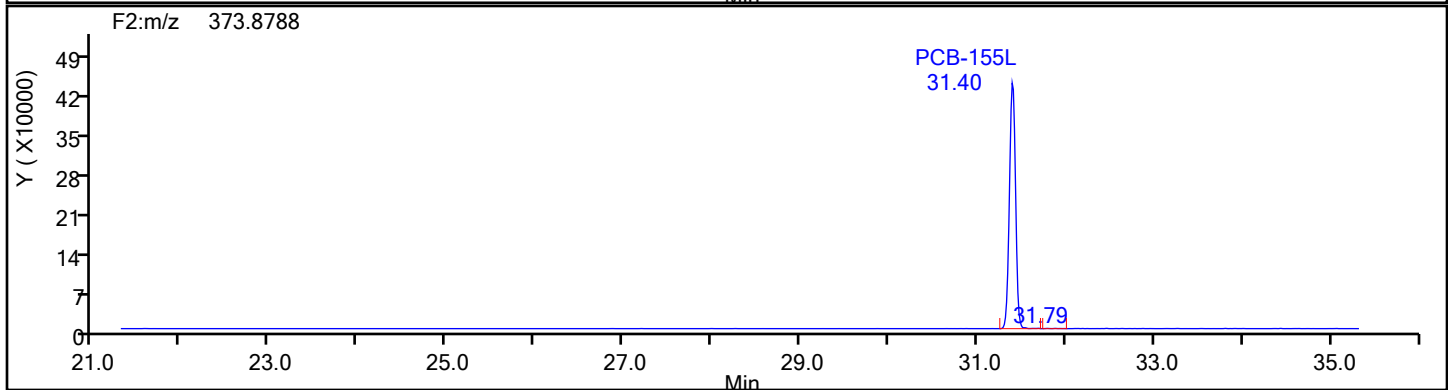
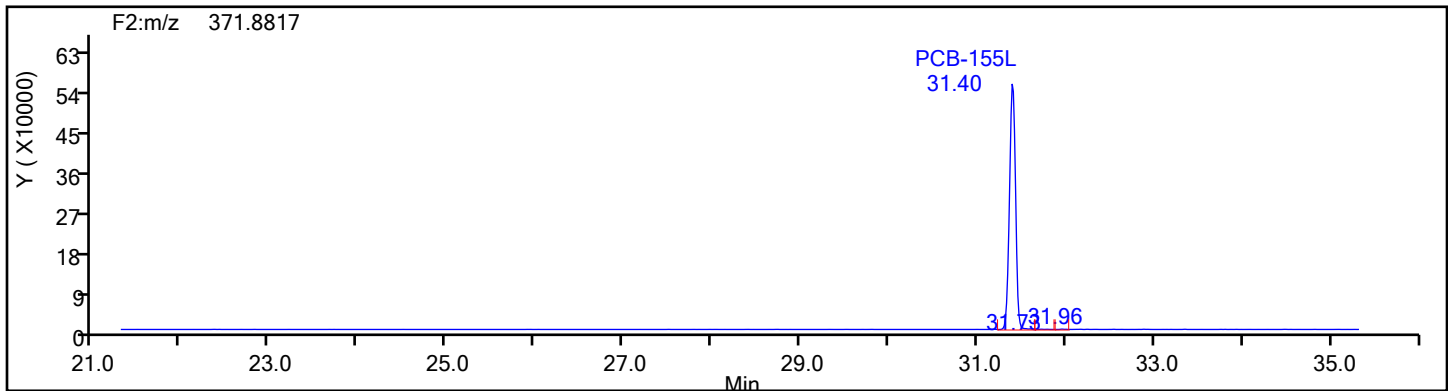


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



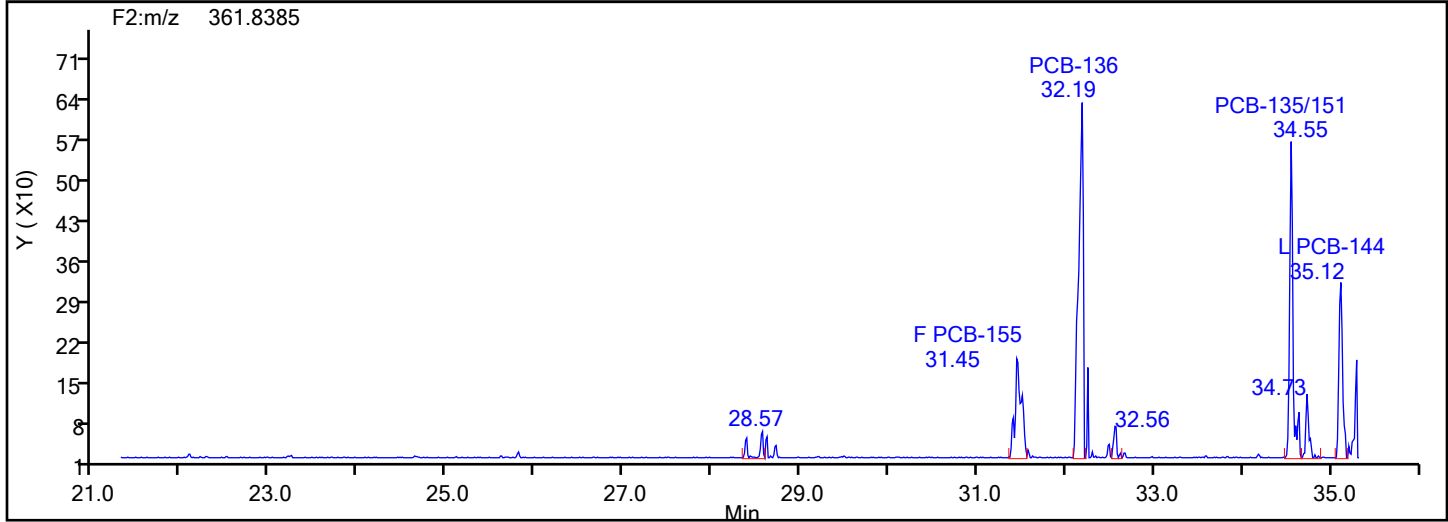
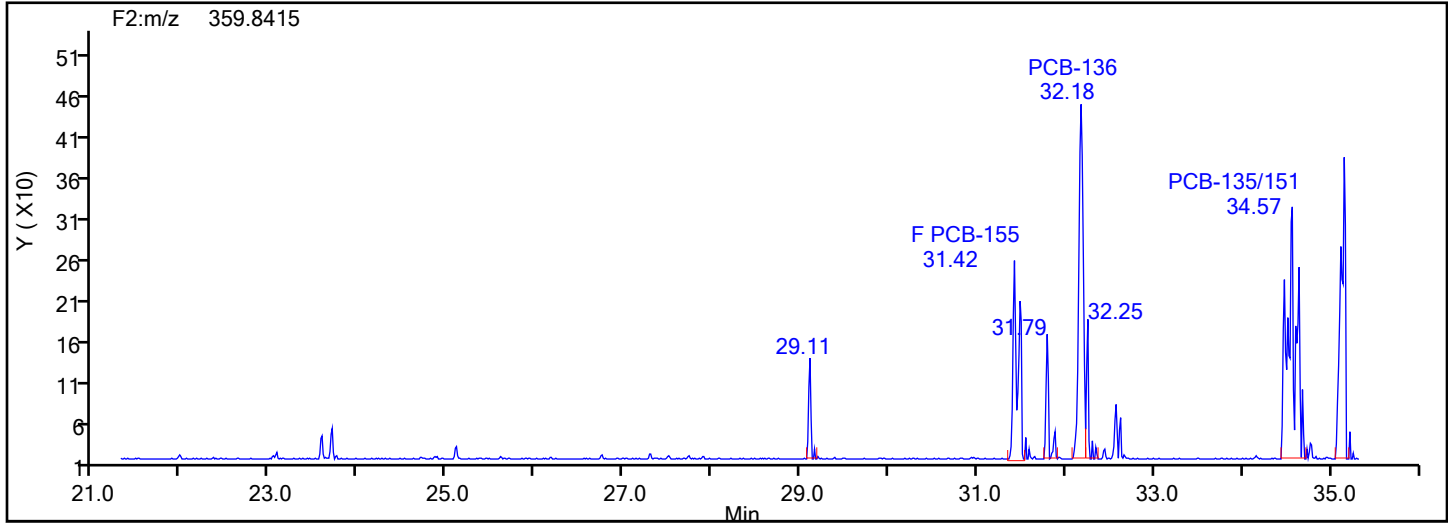
## HxPCB F2 Standards



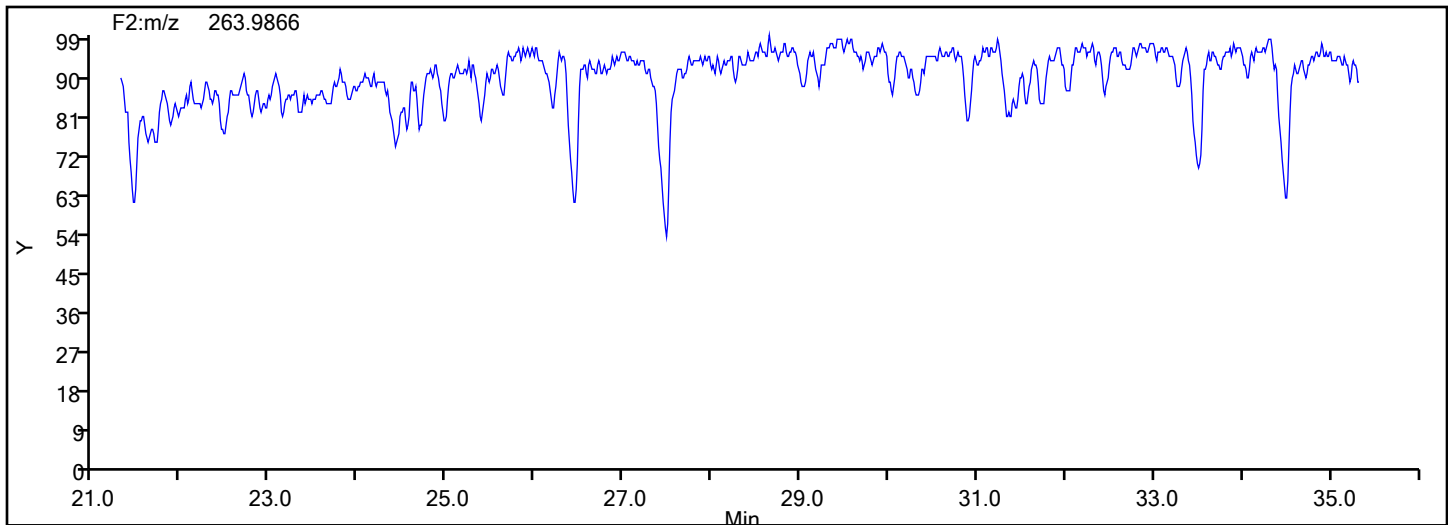


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

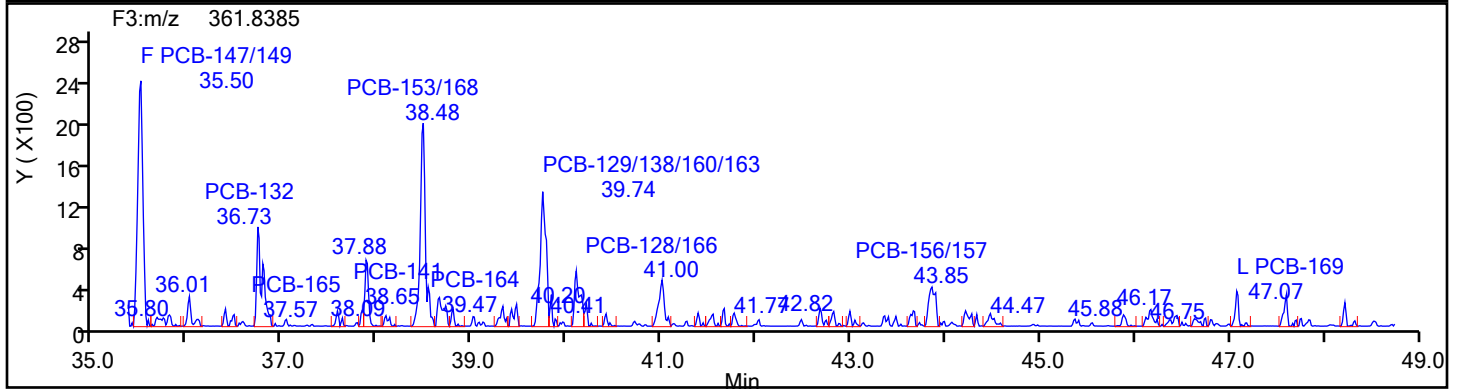
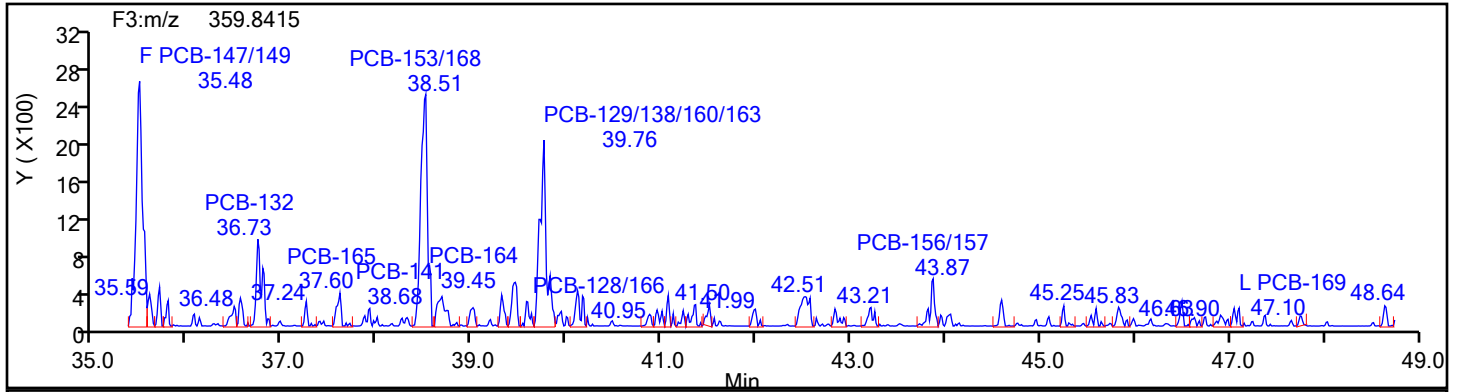


## HxPCB F2 Lock Mass

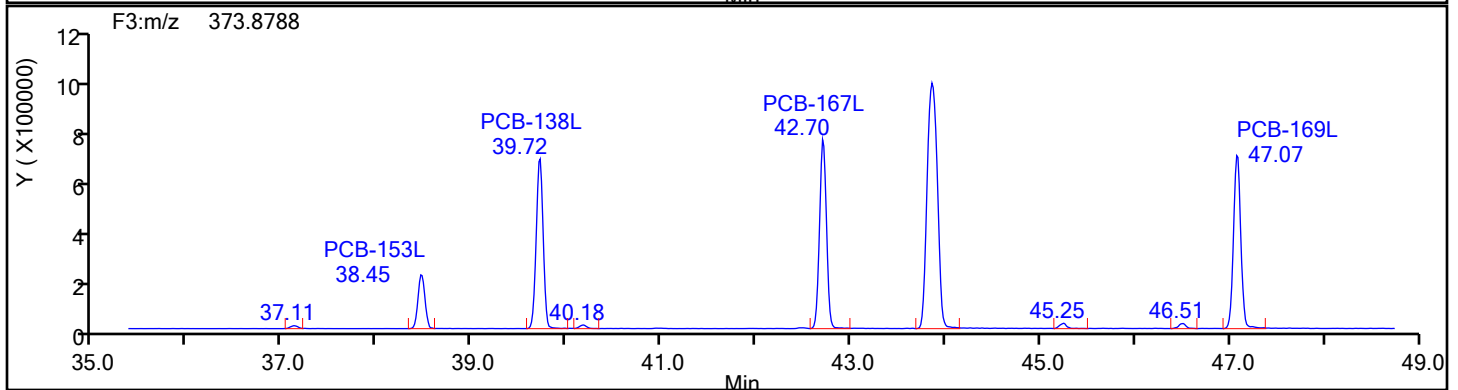
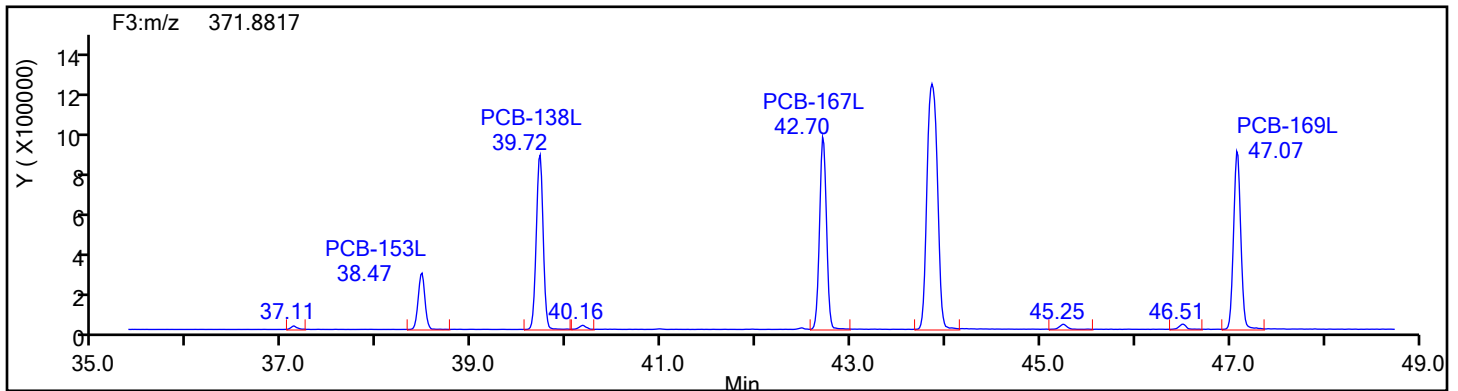


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3

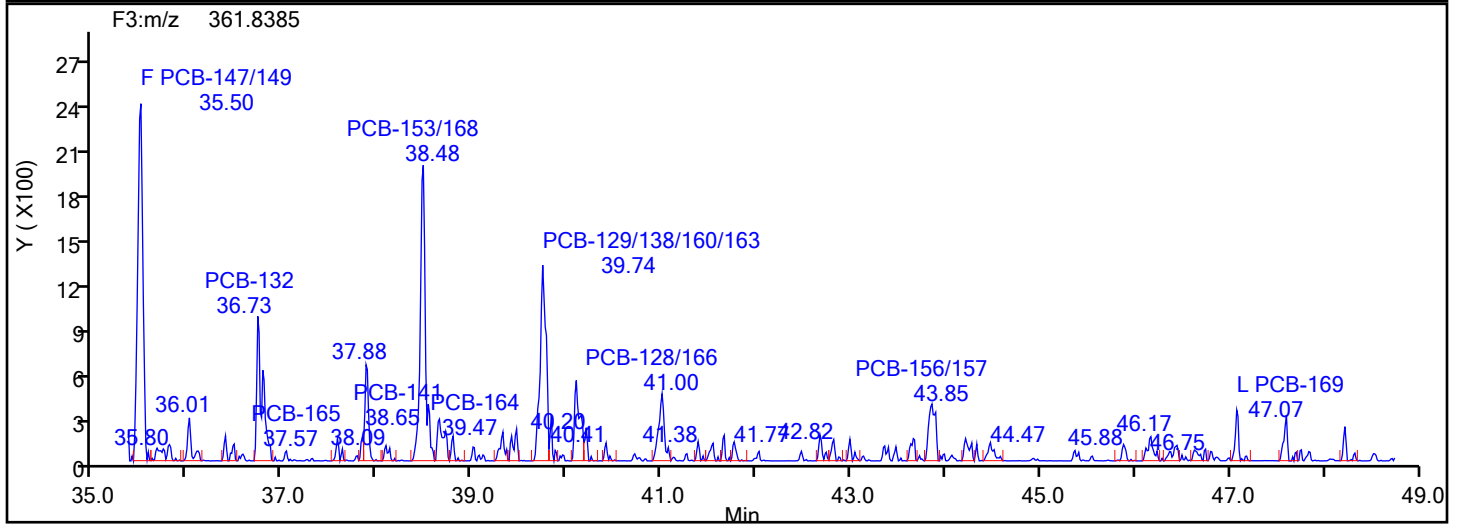
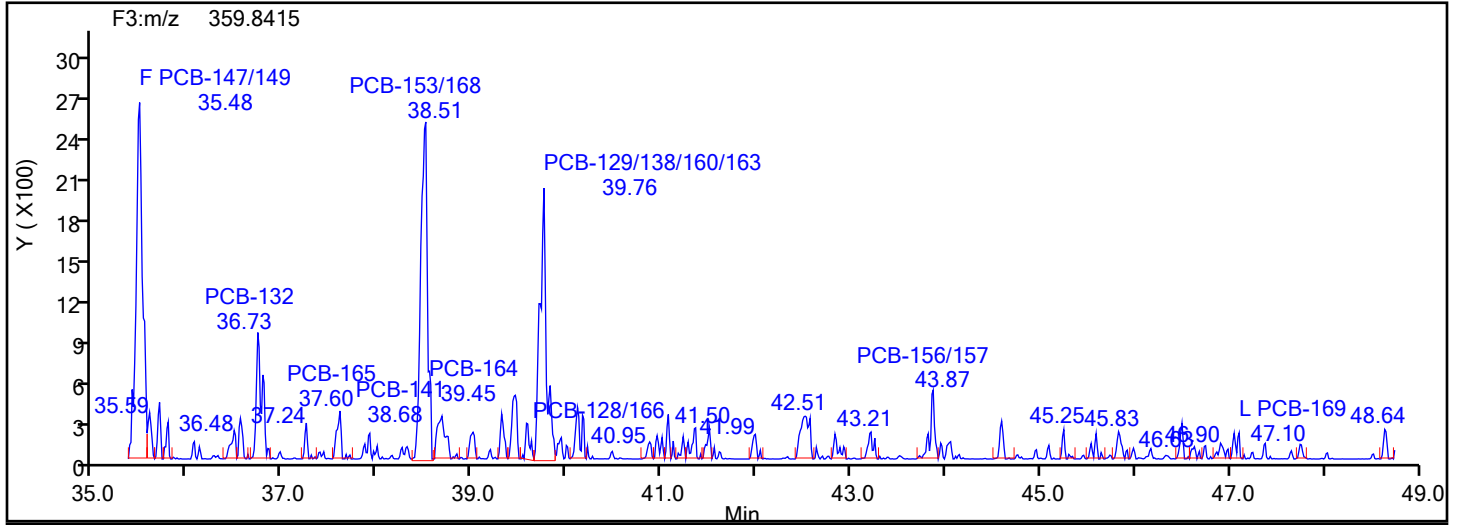


## HxPCB F3 Standards

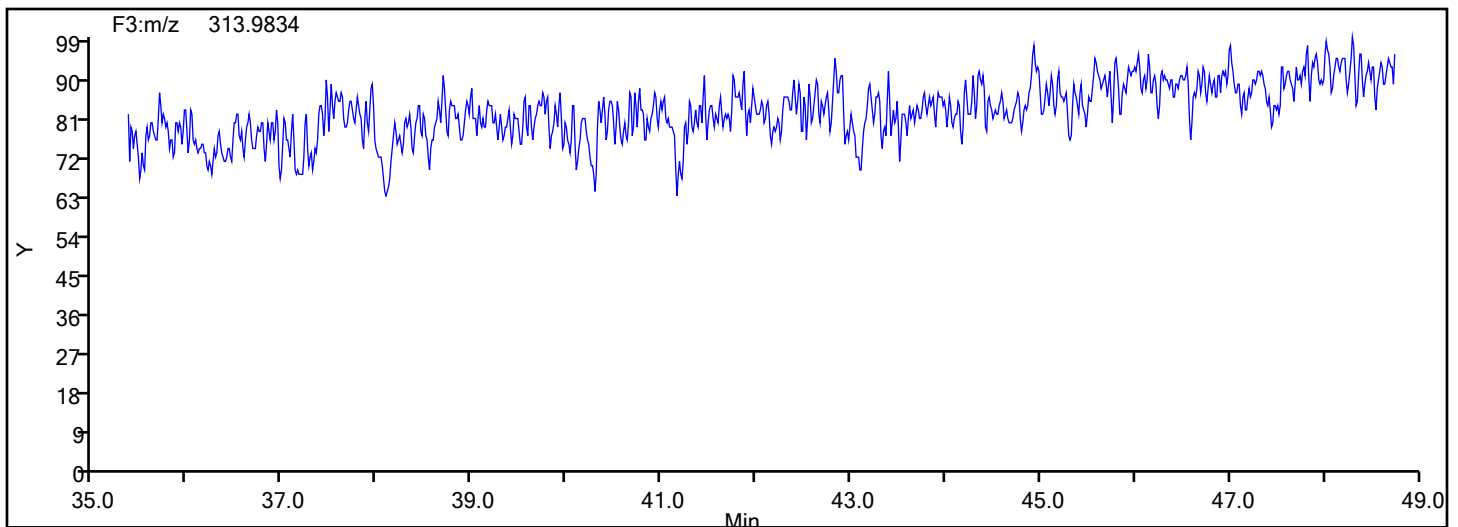


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

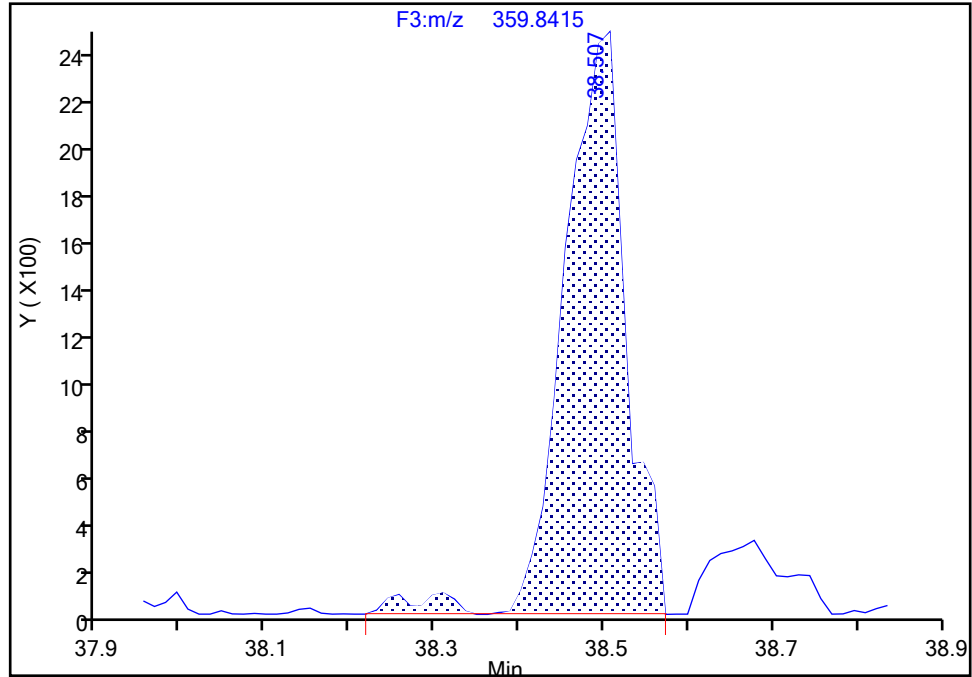
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Injection Date: 28-Jun-2024 05:01:00 Instrument ID: D2D  
Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

PCB-153/168, CAS: STL01822

Signal: 1

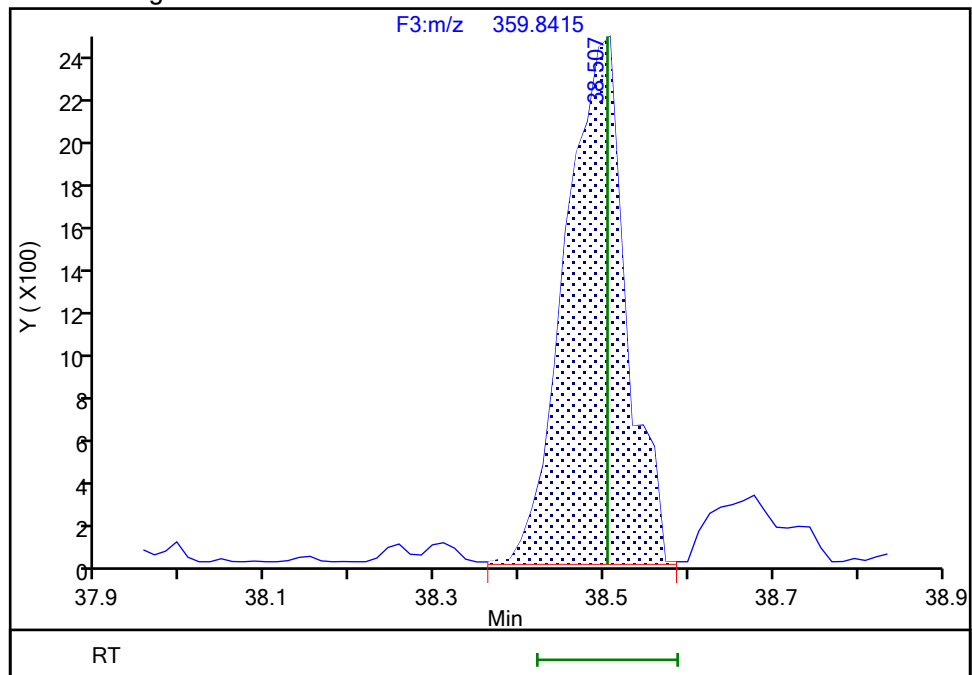
RT: 38.51  
Area: 12461  
Amount: 0.213385  
Amount Units: pg/ul

## Processing Integration Results



RT: 38.51  
Area: 12173  
Amount: 0.210323  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 12:16:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

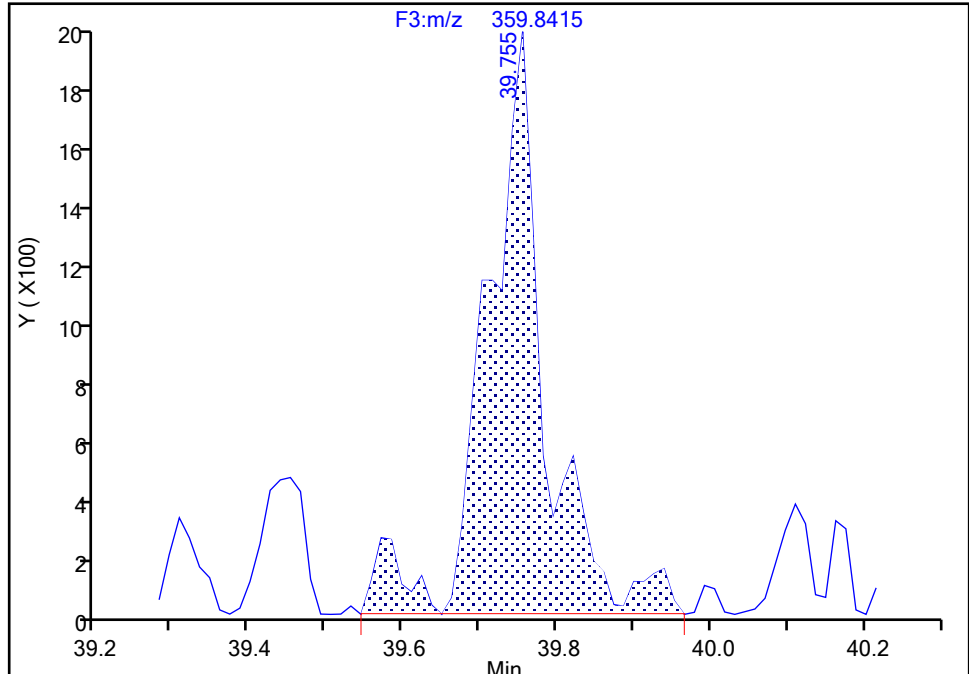
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Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

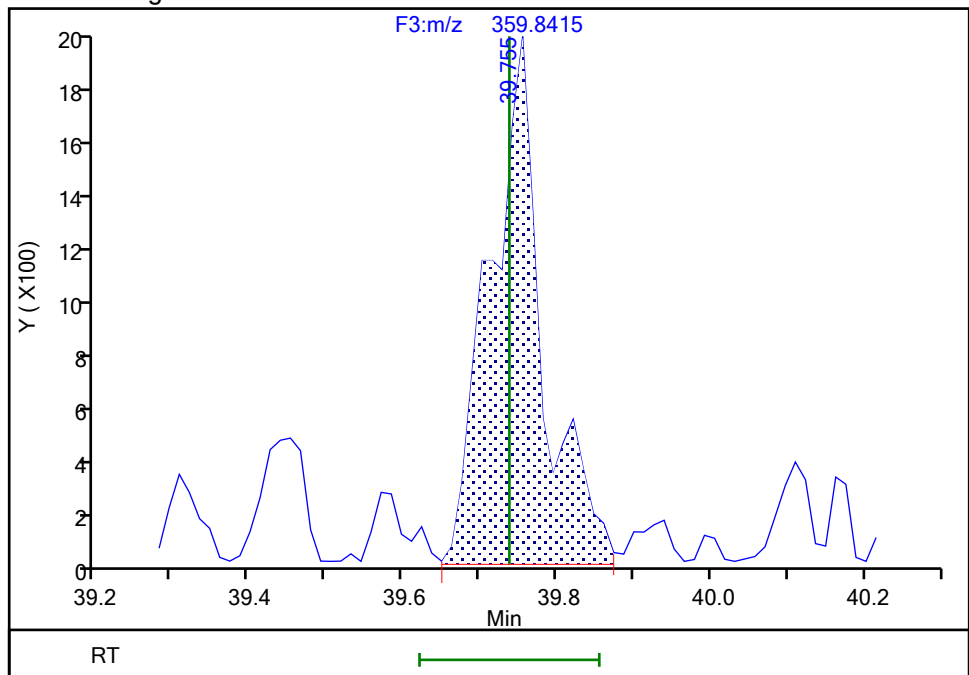
RT: 39.76  
Area: 10511  
Amount: 0.199856  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.76  
Area: 9381  
Amount: 0.185975  
Amount Units: pg/ul

## Manual Integration Results



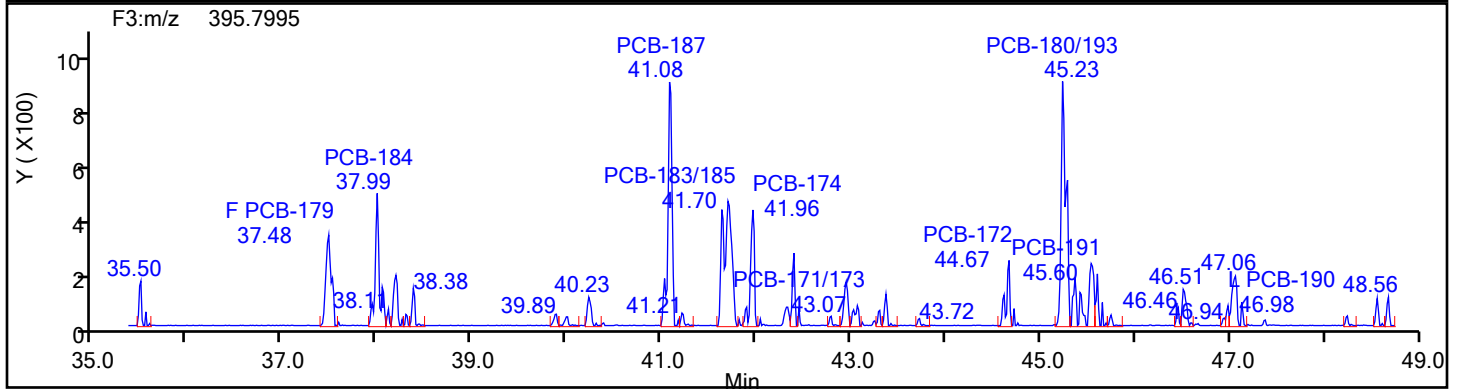
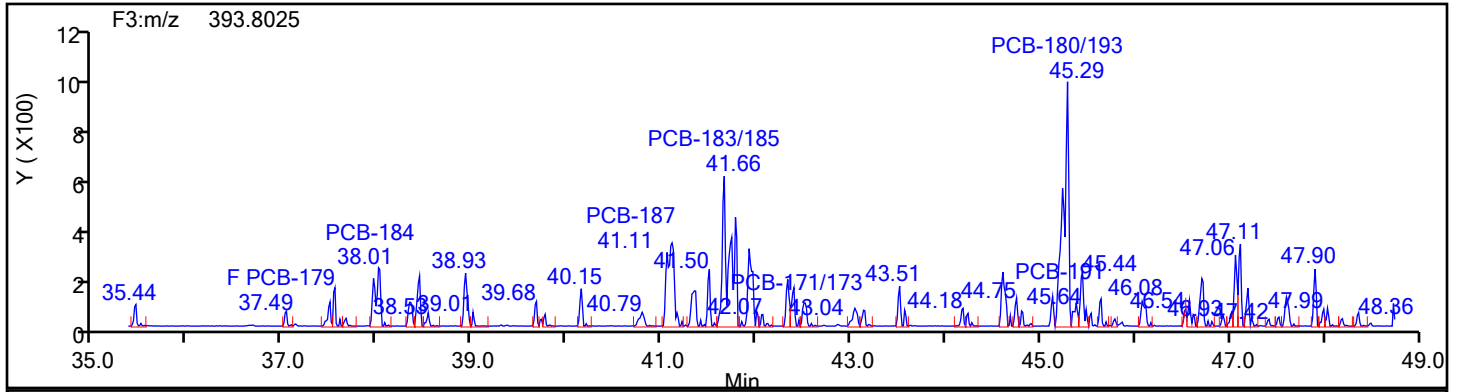
Reviewer: P0IK, 28-Jun-2024 12:16:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

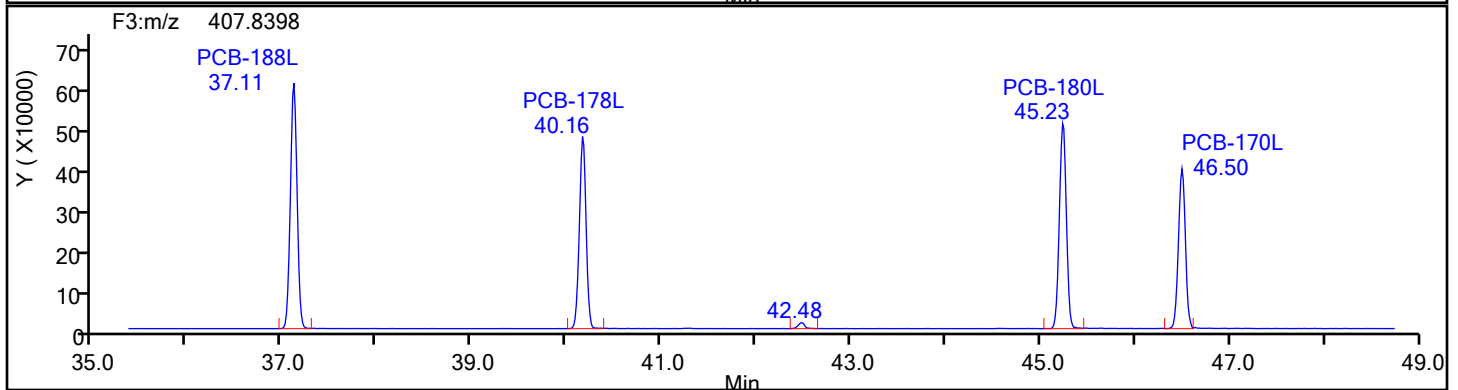
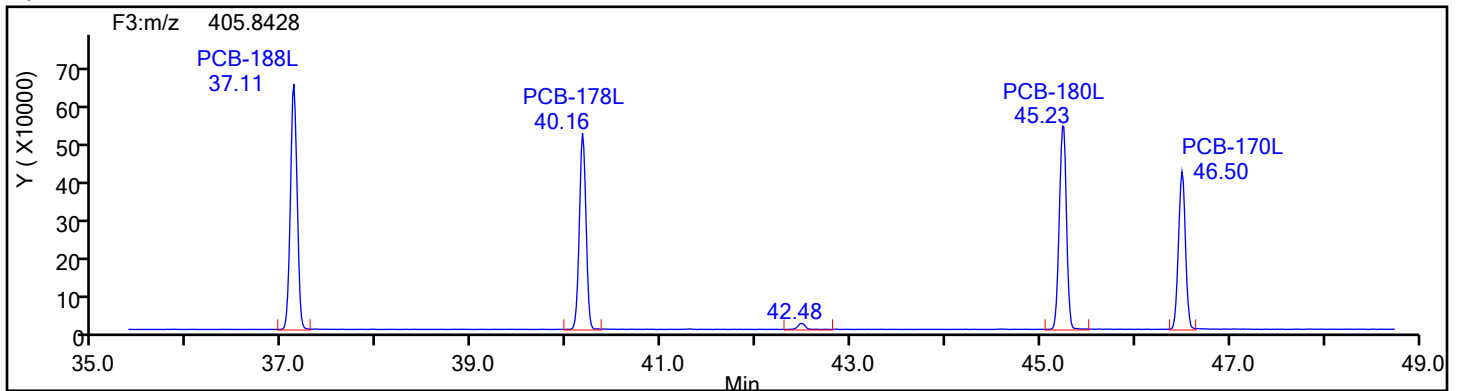
Audit Reason: Incomplete Integration

## Eurofins Knoxville

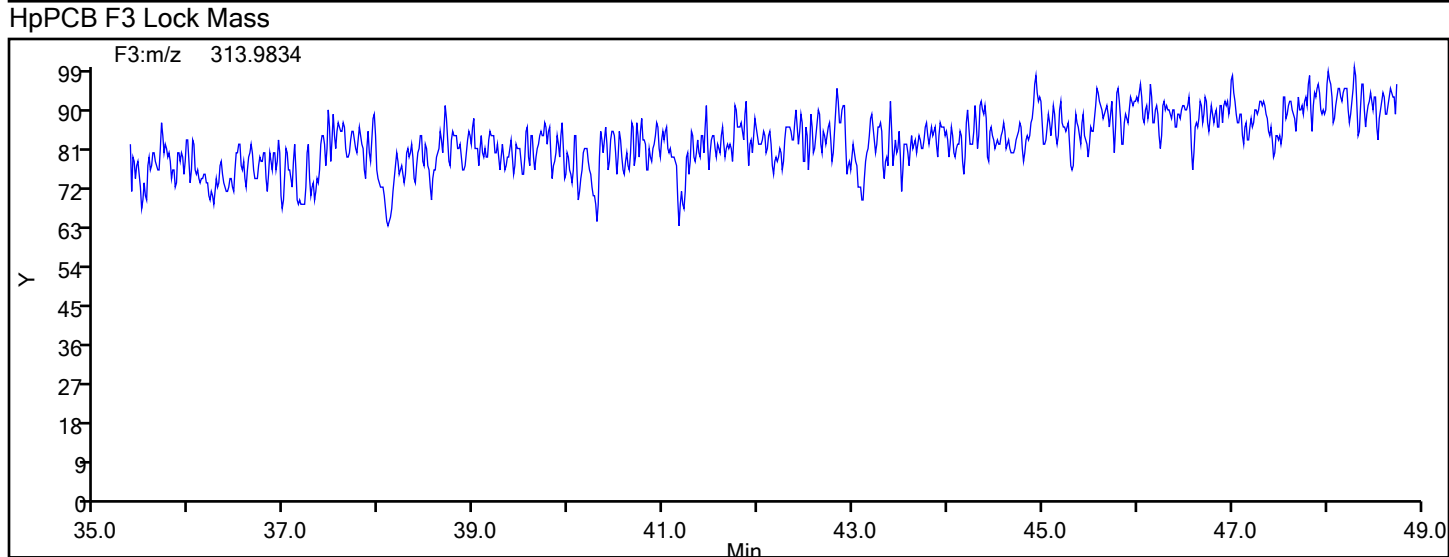
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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3



## HpPCB F3 Standards



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Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 - EPN 4-1\IN-701-RUN 2-COMBINED		
Worklist#:	88205	Sample Line#:	10
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HpPCB F3			



## Eurofins Knoxville

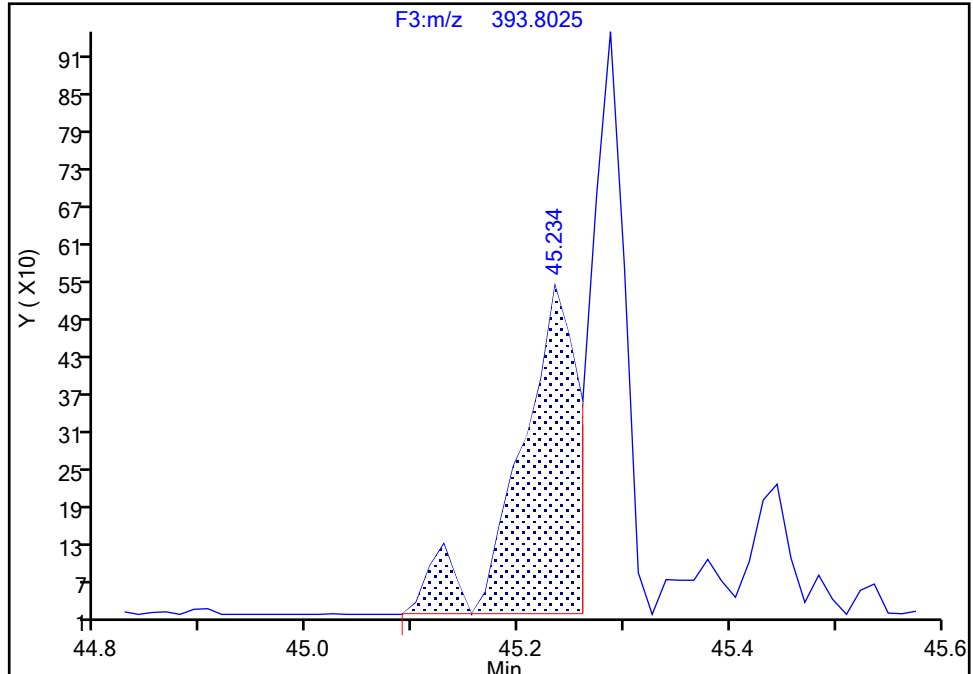
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Injection Date: 28-Jun-2024 05:01:00 Instrument ID: D2D  
Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-180/193, CAS: STL01824**

Signal: 1

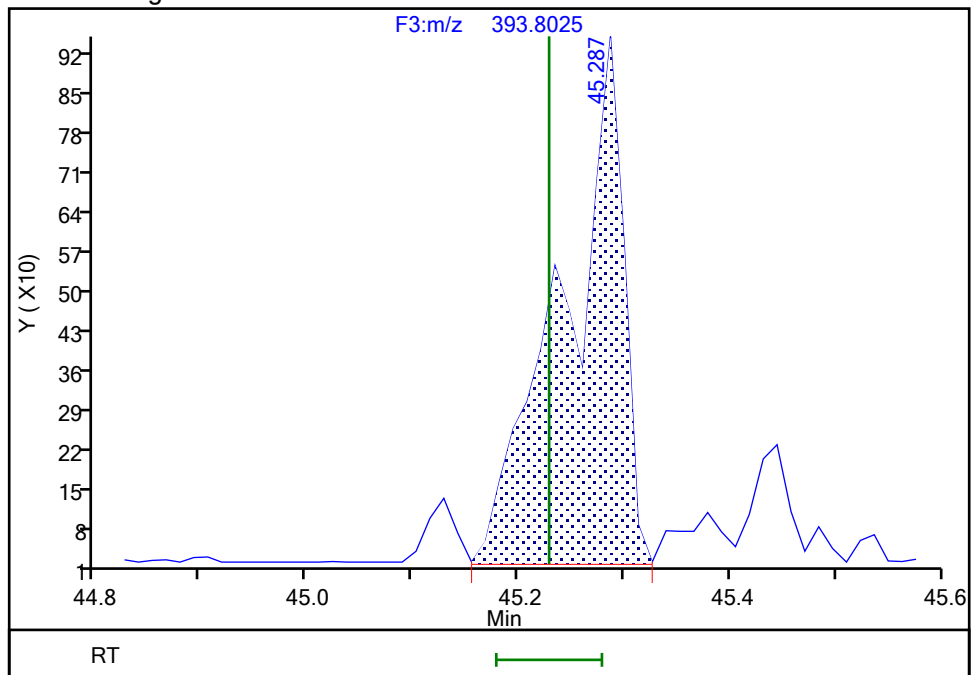
RT: 45.23  
Area: 1938  
Amount: 0.091224  
Amount Units: pg/ul

## Processing Integration Results



RT: 45.29  
Area: 3624  
Amount: 0.108669  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 12:18:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

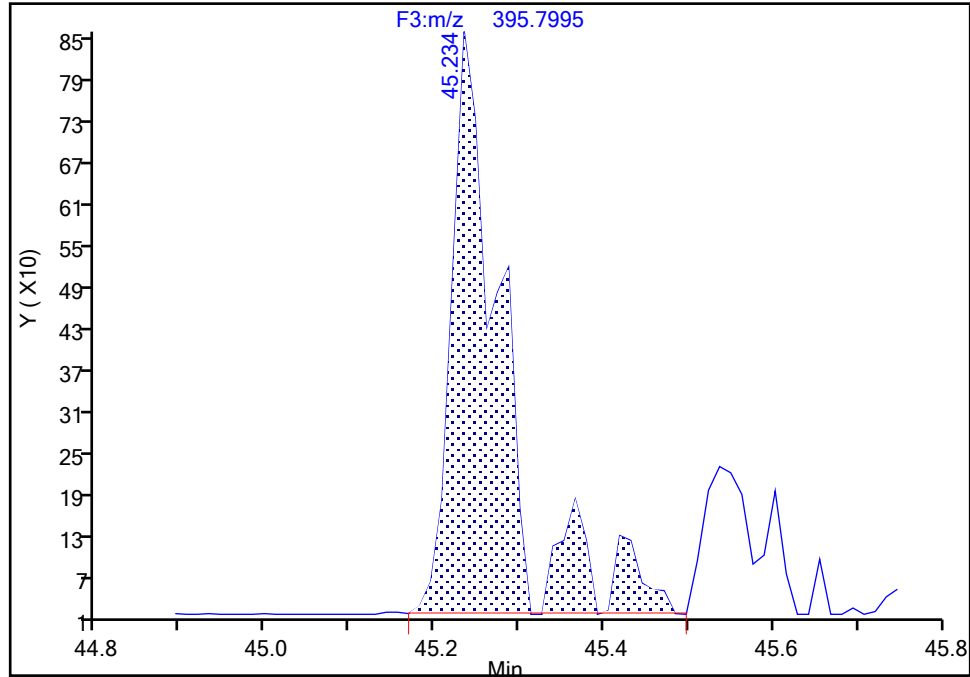
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Injection Date: 28-Jun-2024 05:01:00 Instrument ID: D2D  
Lims ID: 140-36940-A-2-C Lab Sample ID: 140-36940-2  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-180/193, CAS: STL01824

Signal: 2

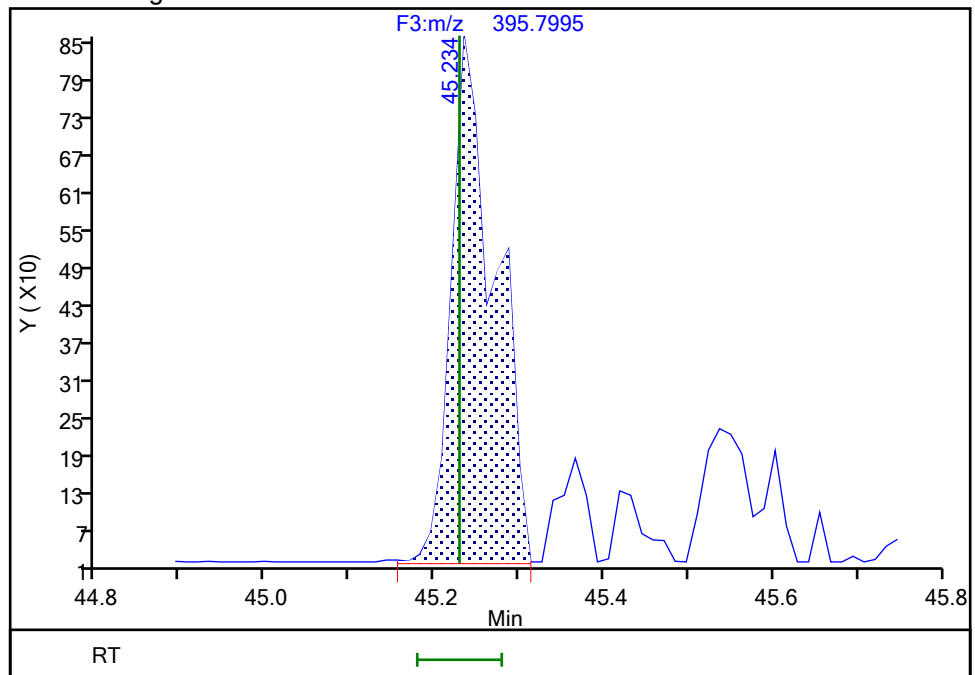
RT: 45.23  
Area: 3631  
Amount: 0.091224  
Amount Units: pg/ul

## Processing Integration Results



RT: 45.23  
Area: 3010  
Amount: 0.108669  
Amount Units: pg/ul

## Manual Integration Results



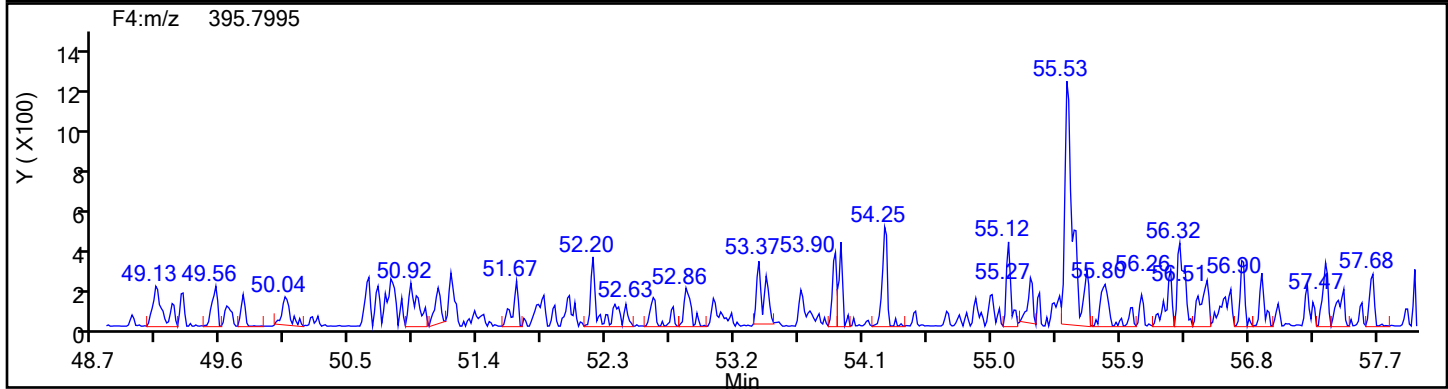
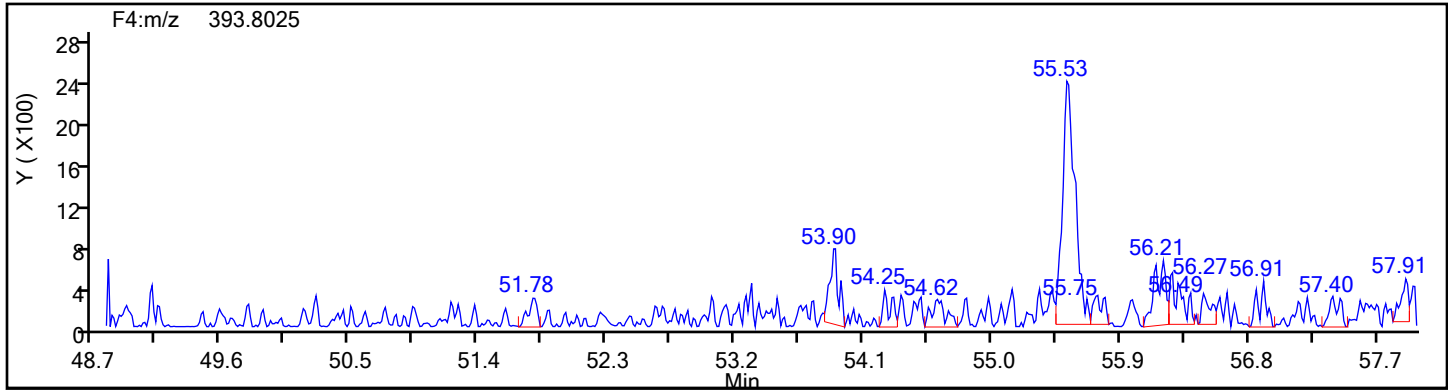
Reviewer: P0IK, 28-Jun-2024 12:18:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

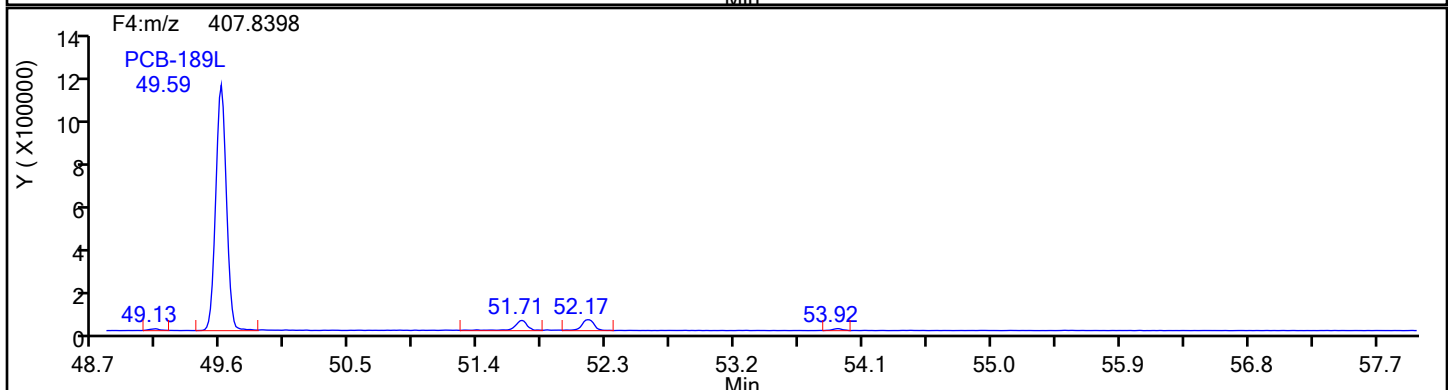
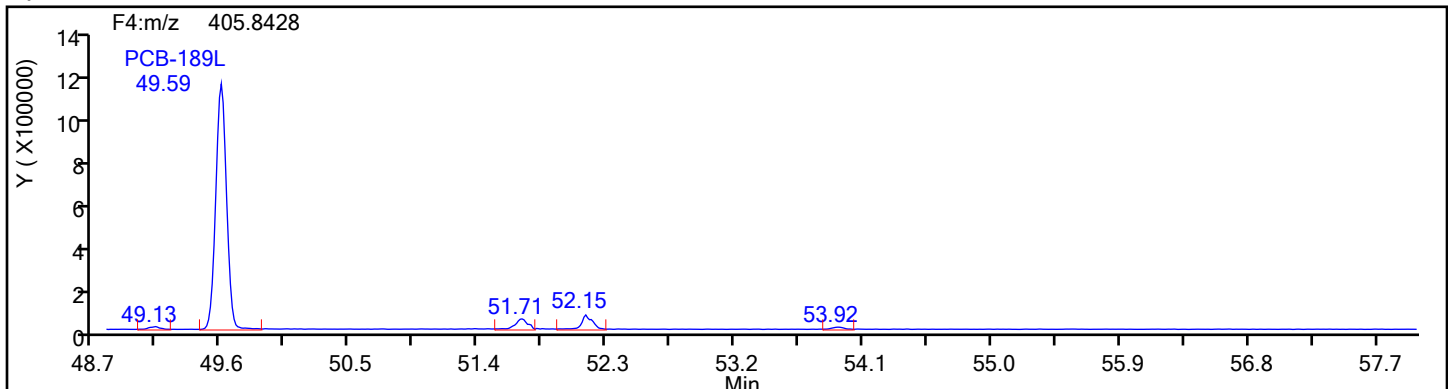
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 05:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

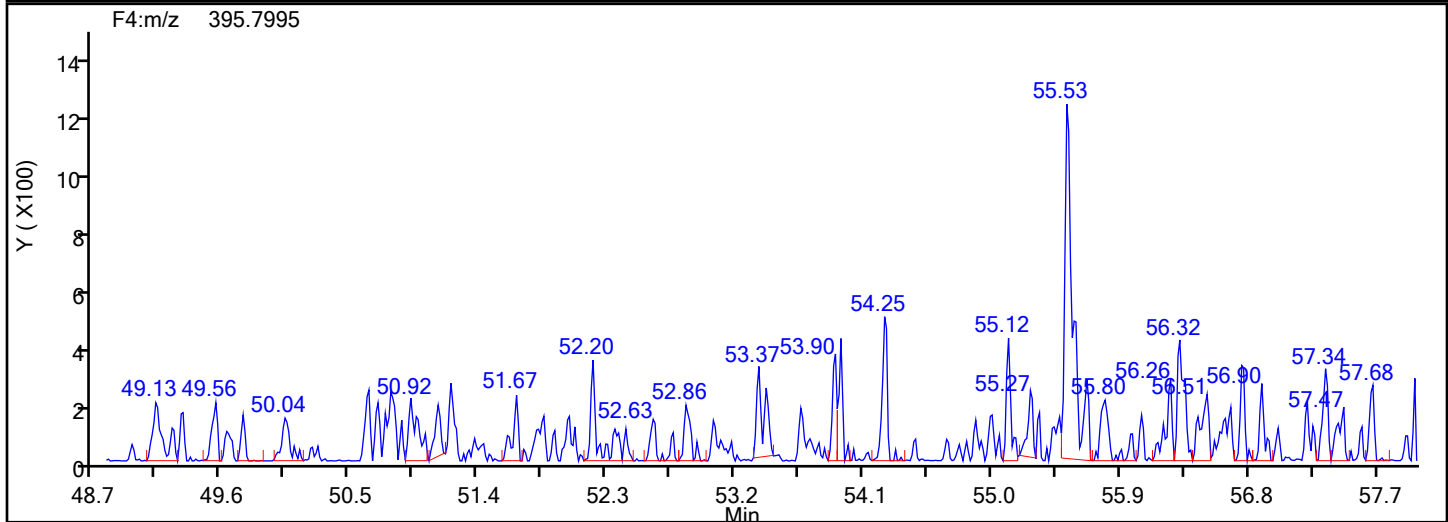
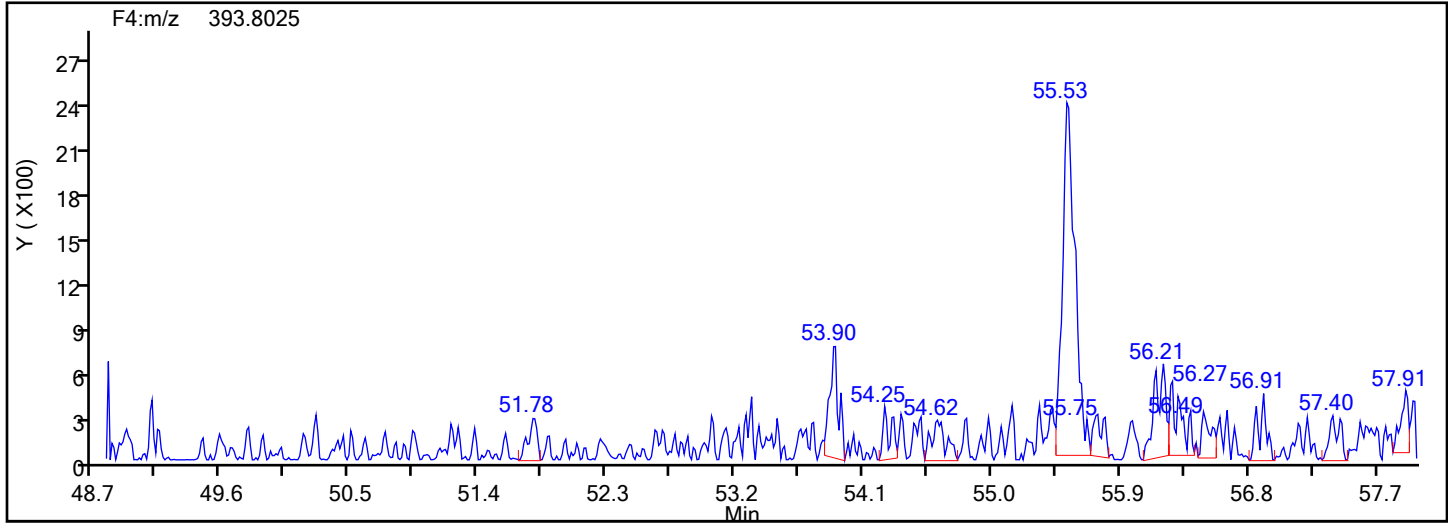


## HpPCB F4 Standards

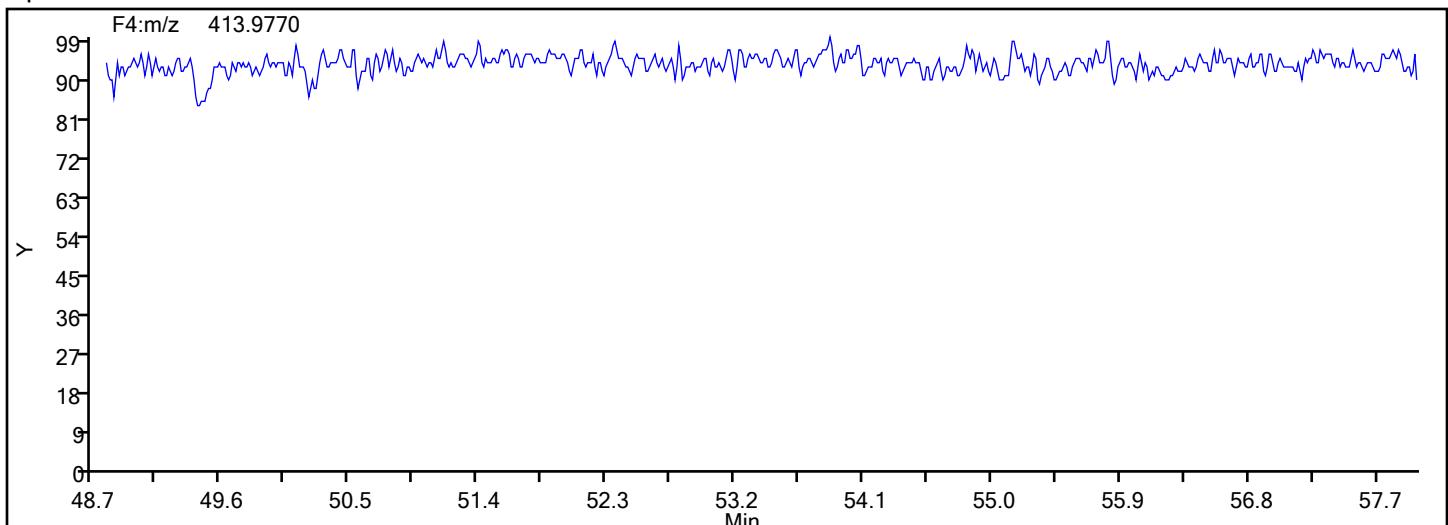


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

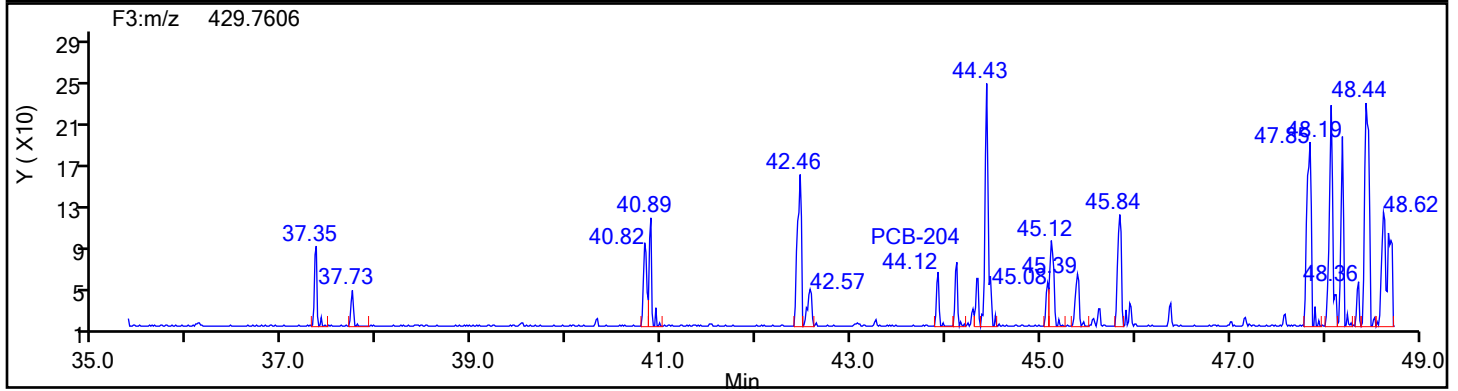
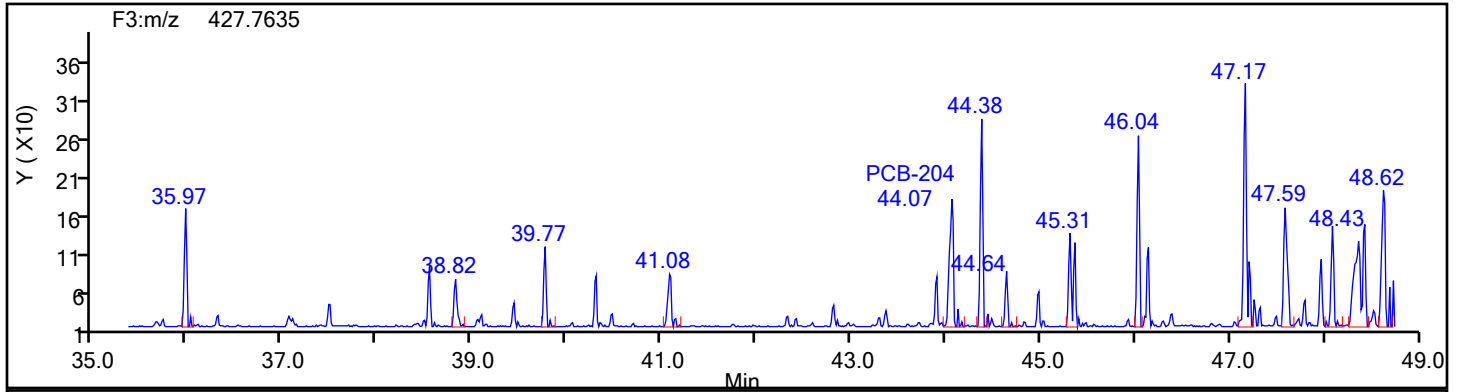


## HpPCB F4 Lock Mass

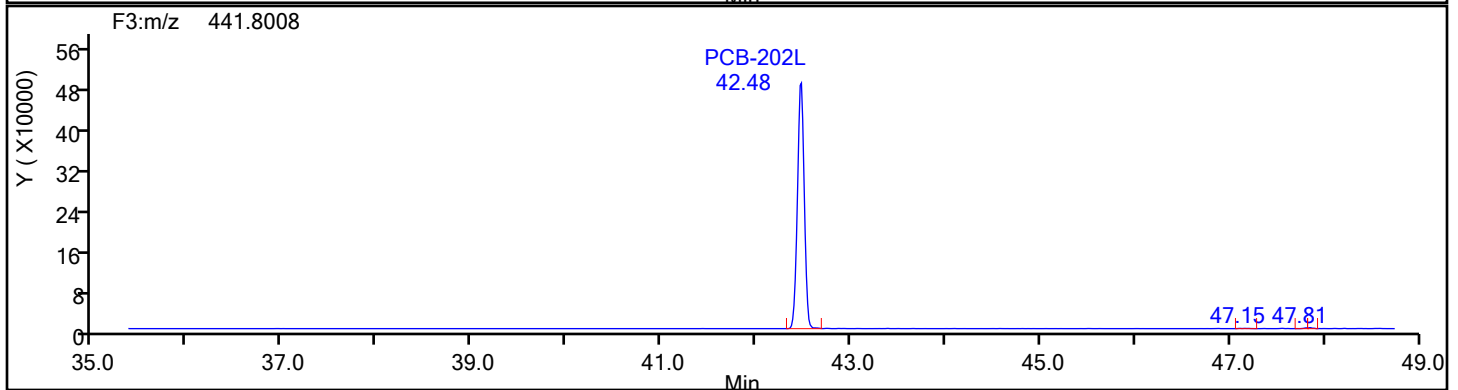
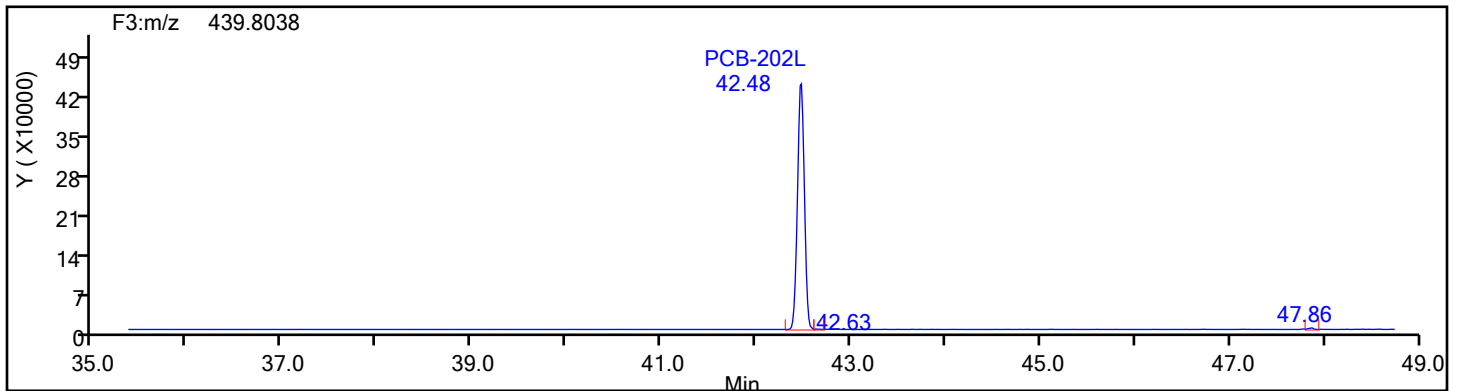


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

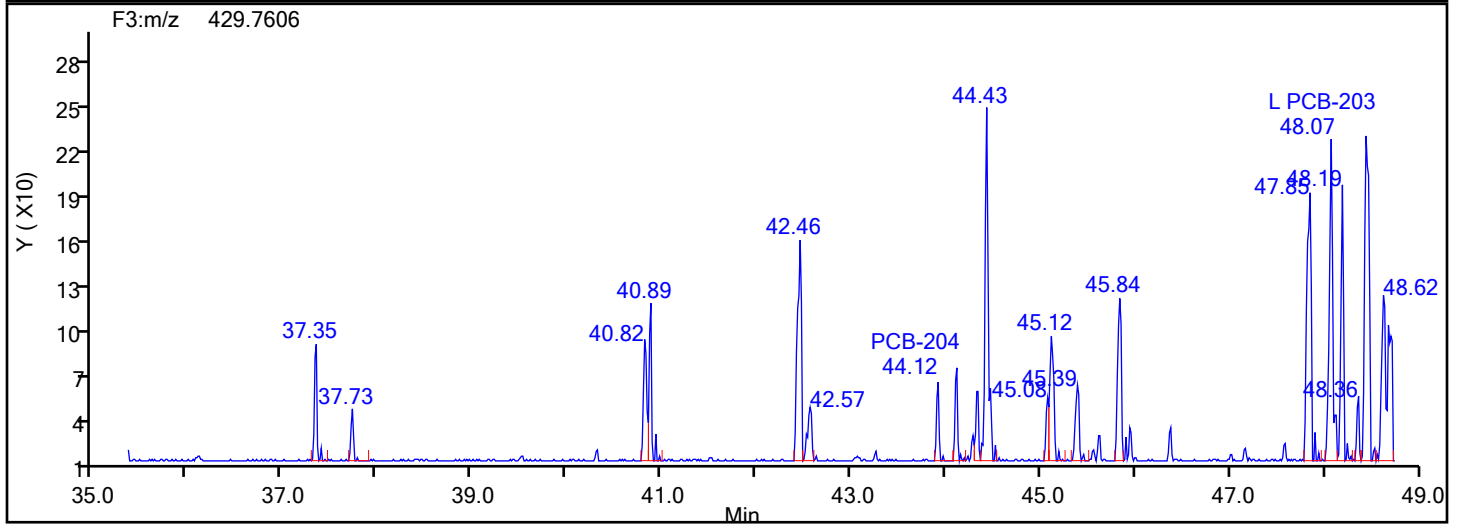
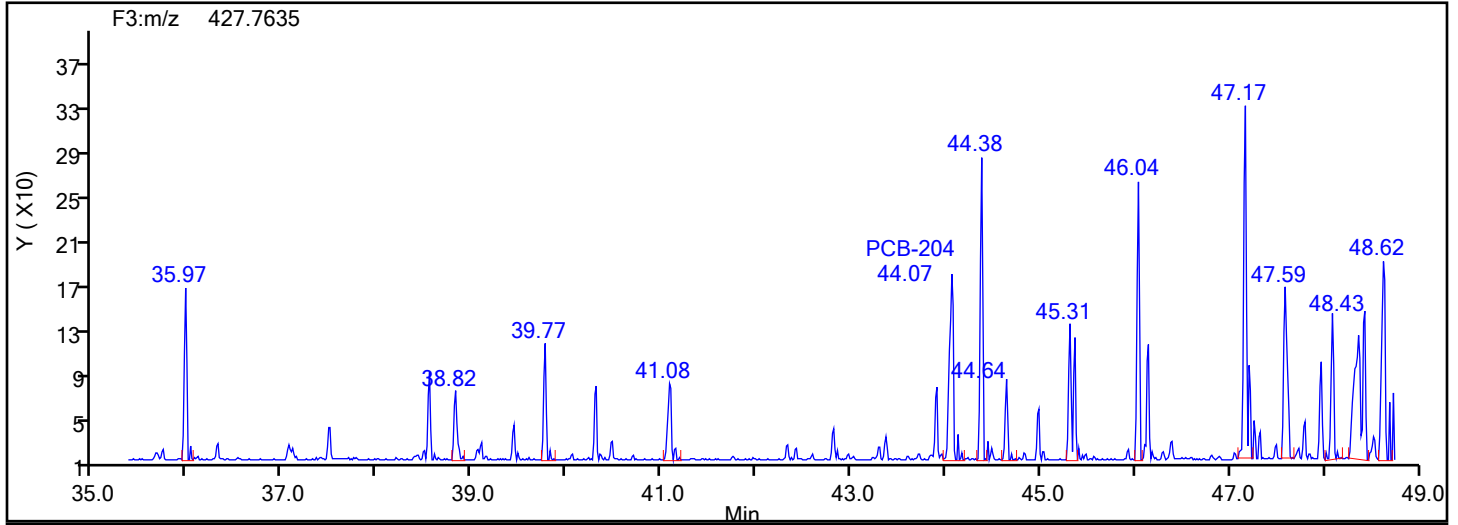


## OcPCB F3 Standards

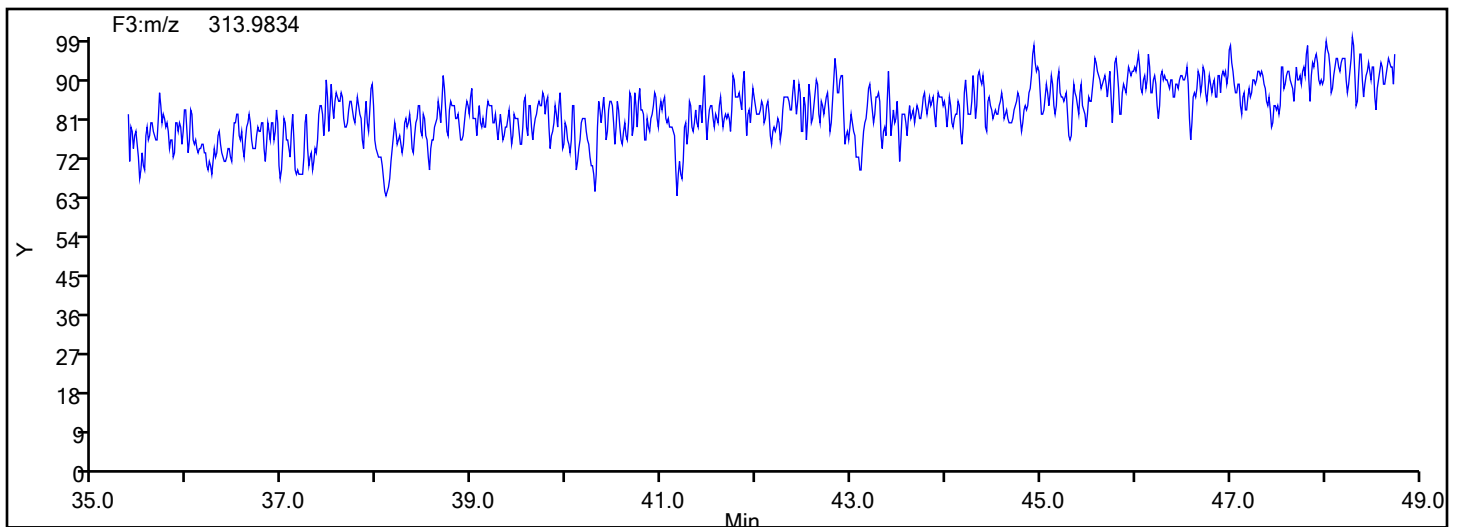


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

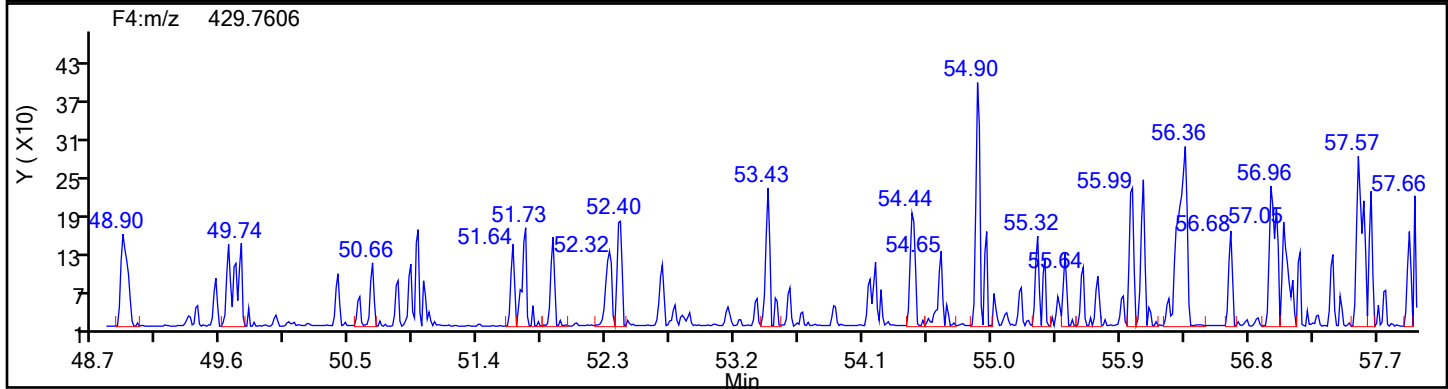
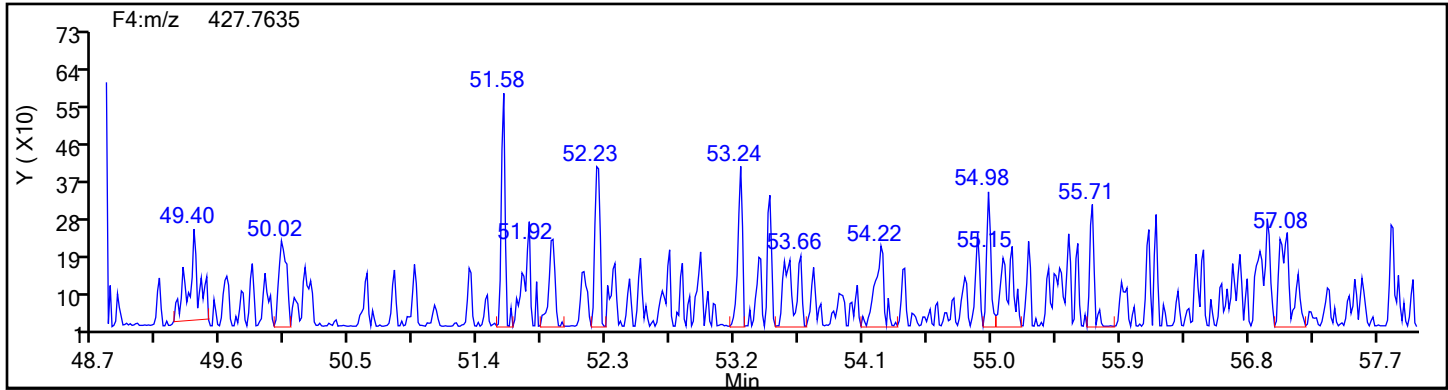


## OcPCB F3 Lock Mass

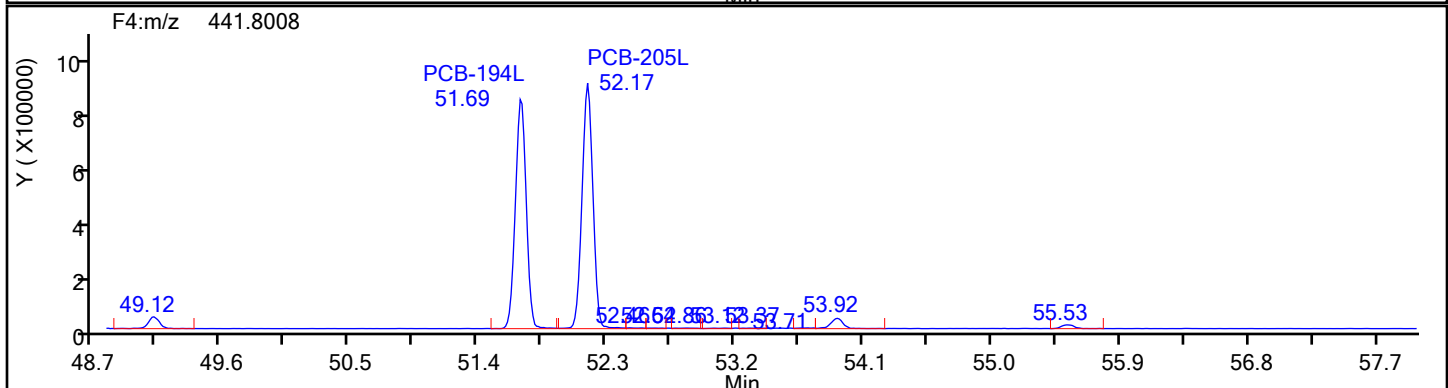
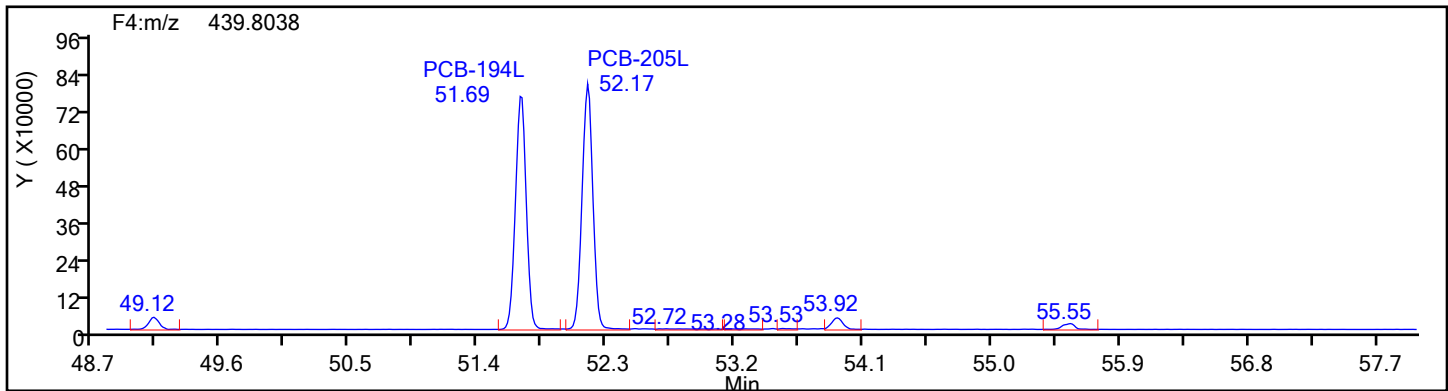


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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

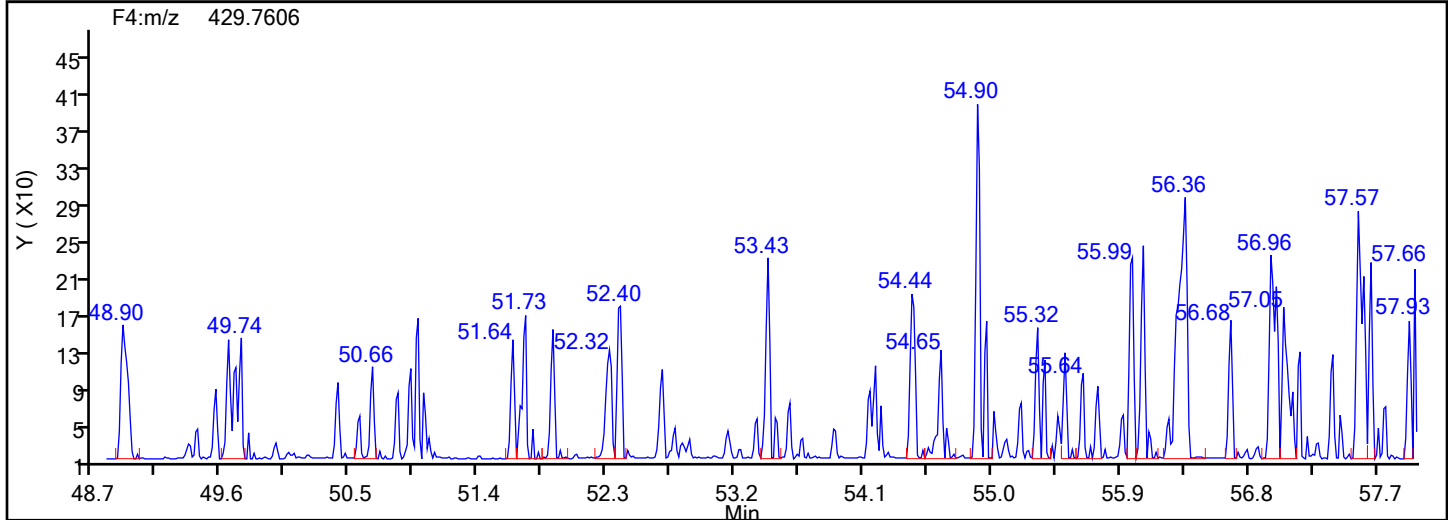
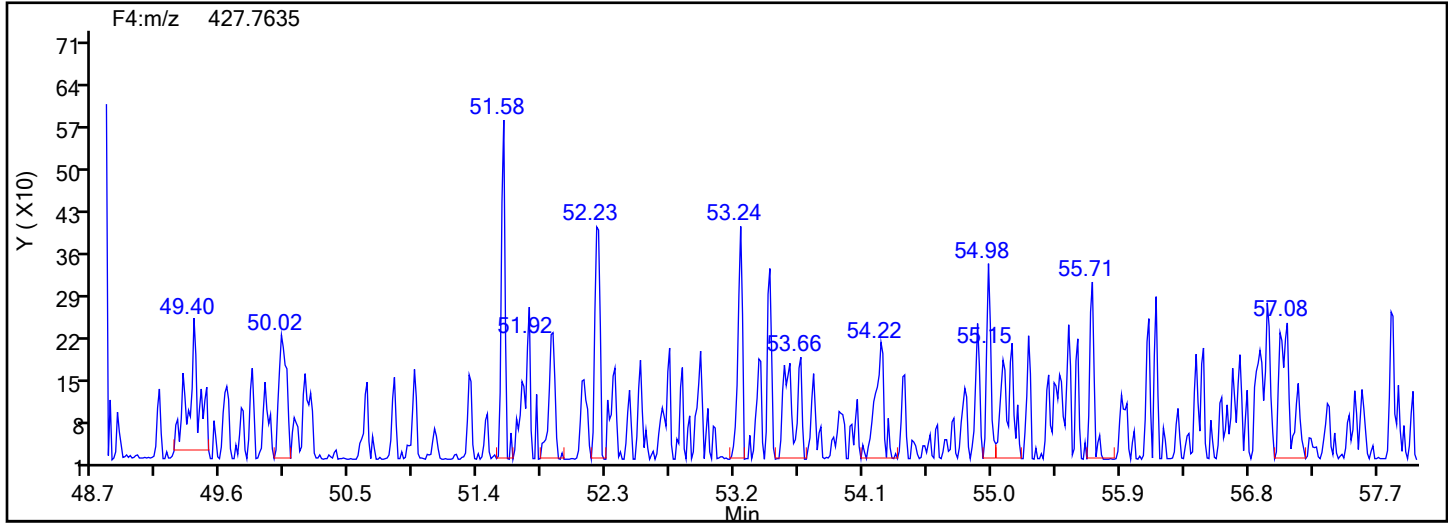


## OcPCB F4 Standards

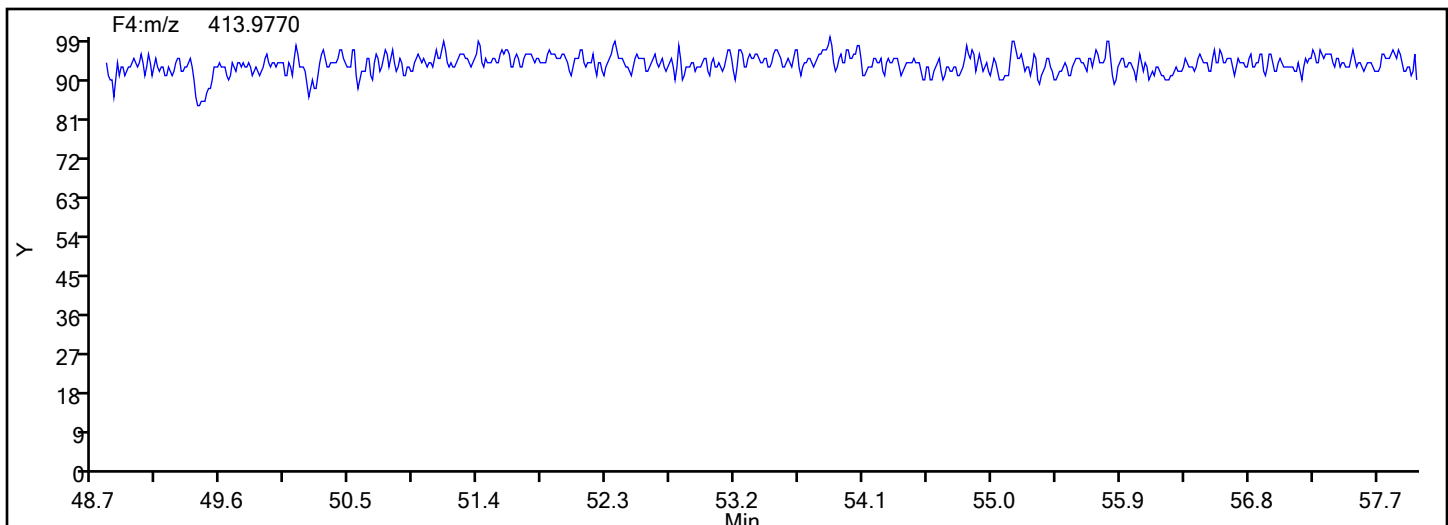


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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

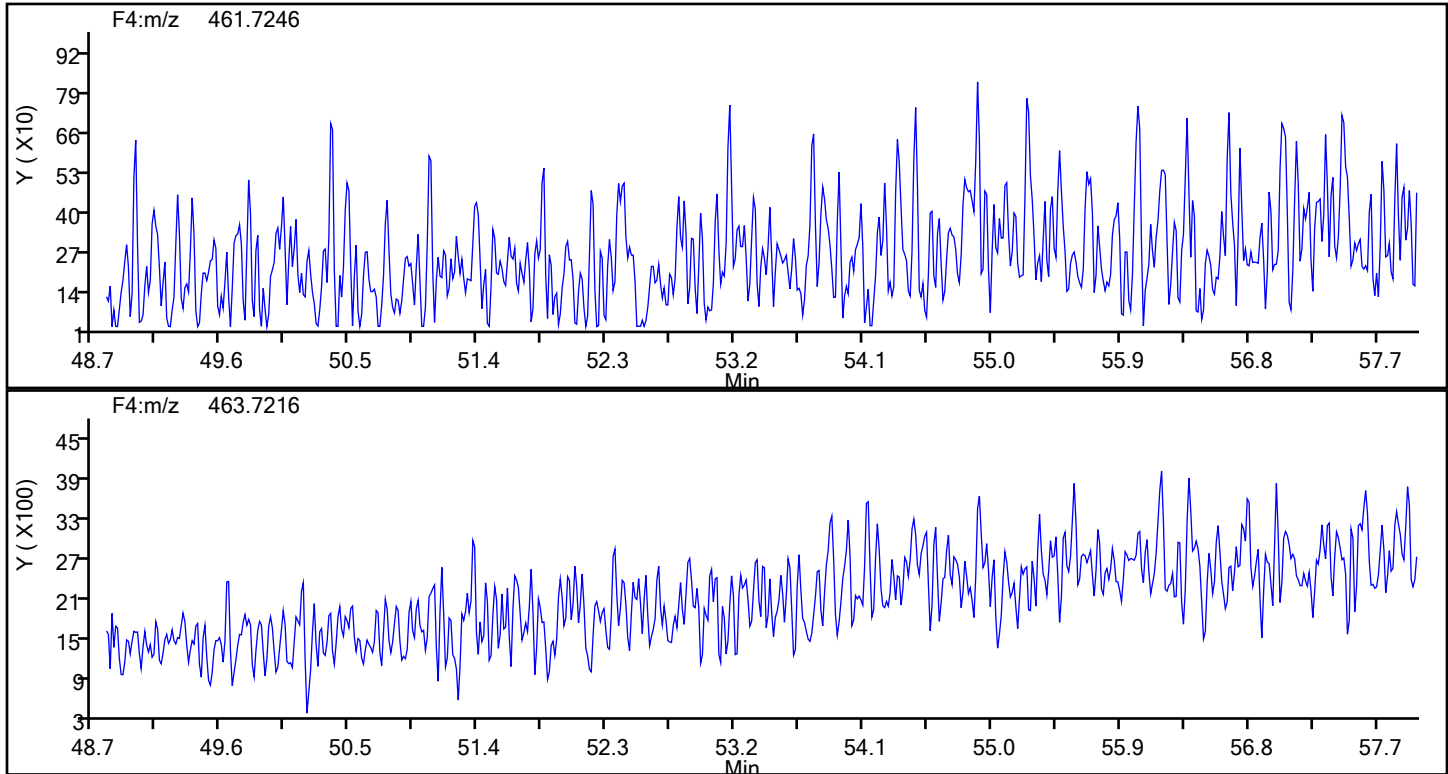


## OcPCB F4 Lock Mass

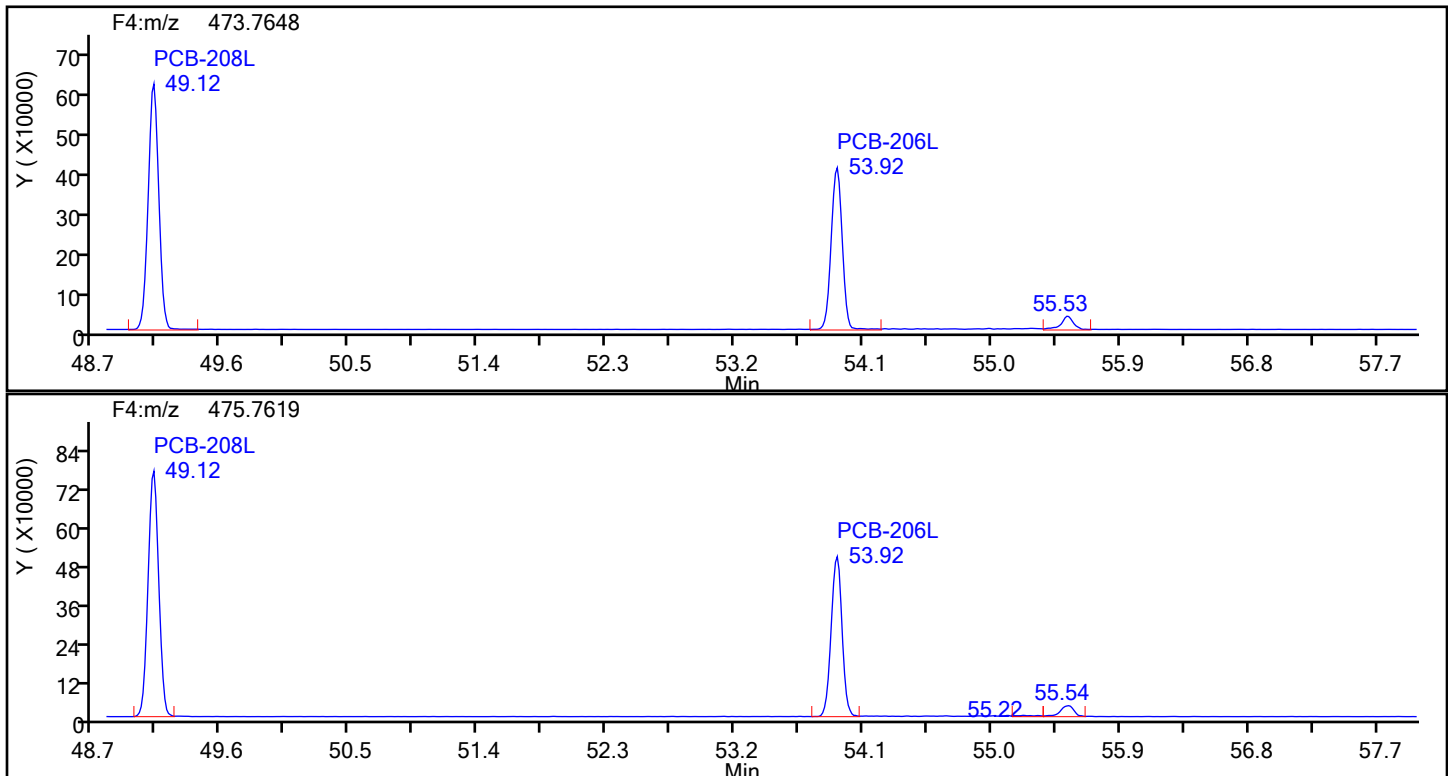


## Eurofins Knoxville

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Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



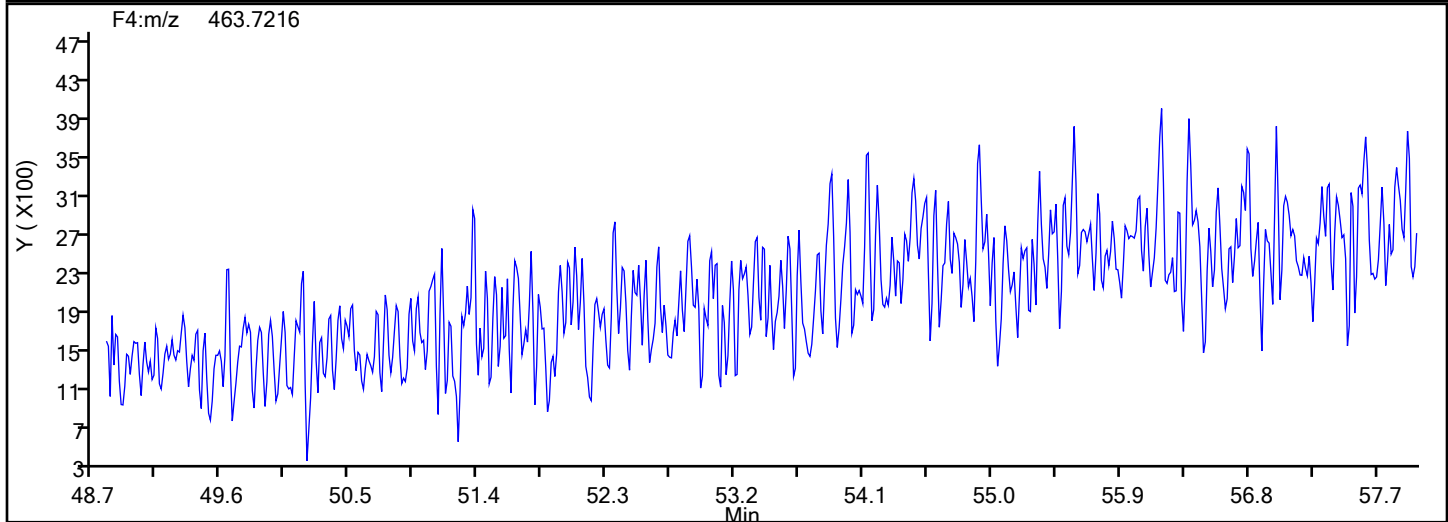
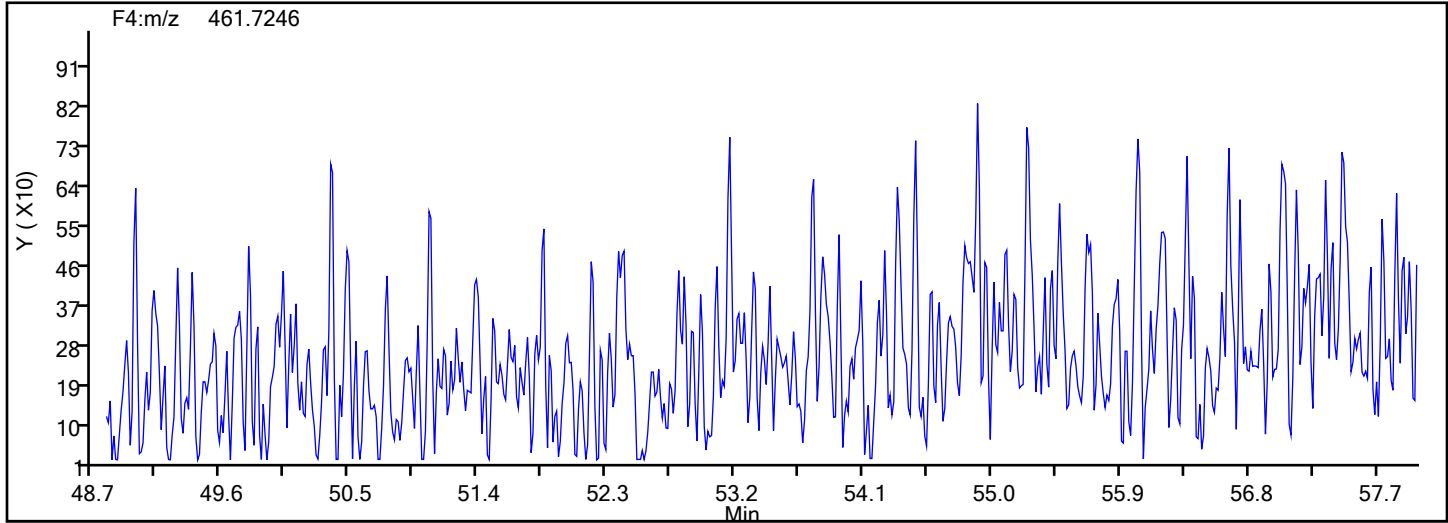
## NoPCB F4 Standards



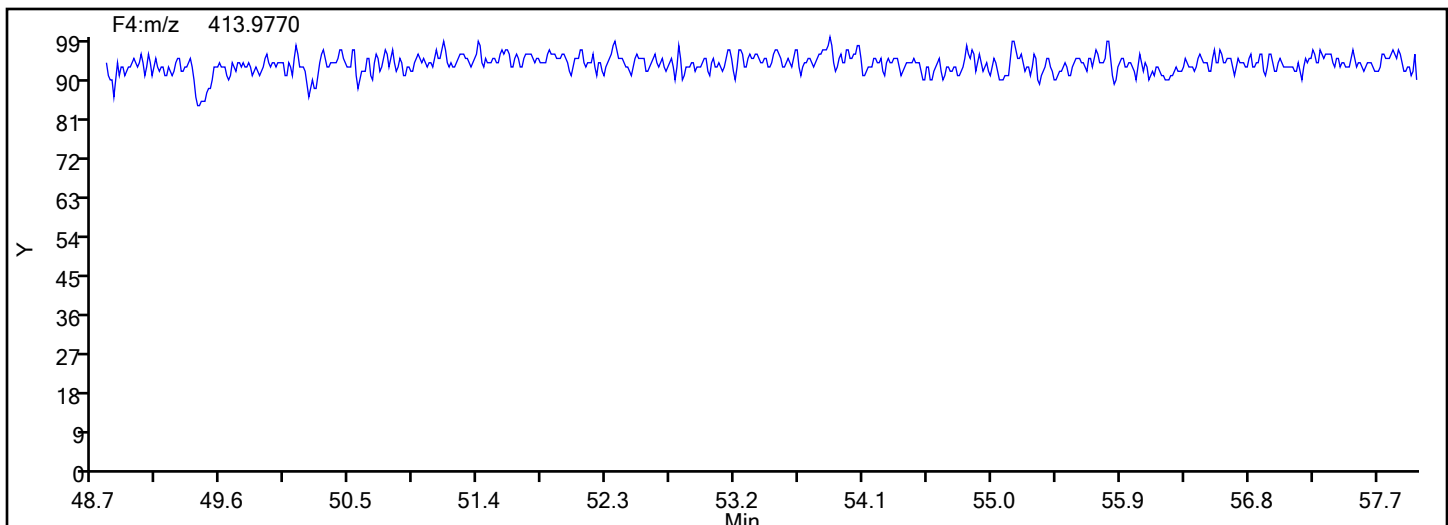


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

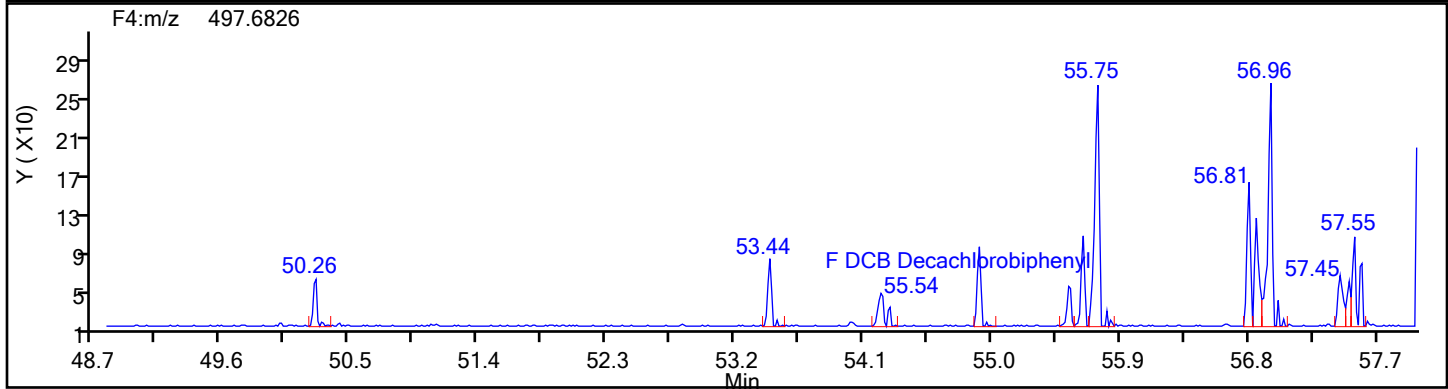
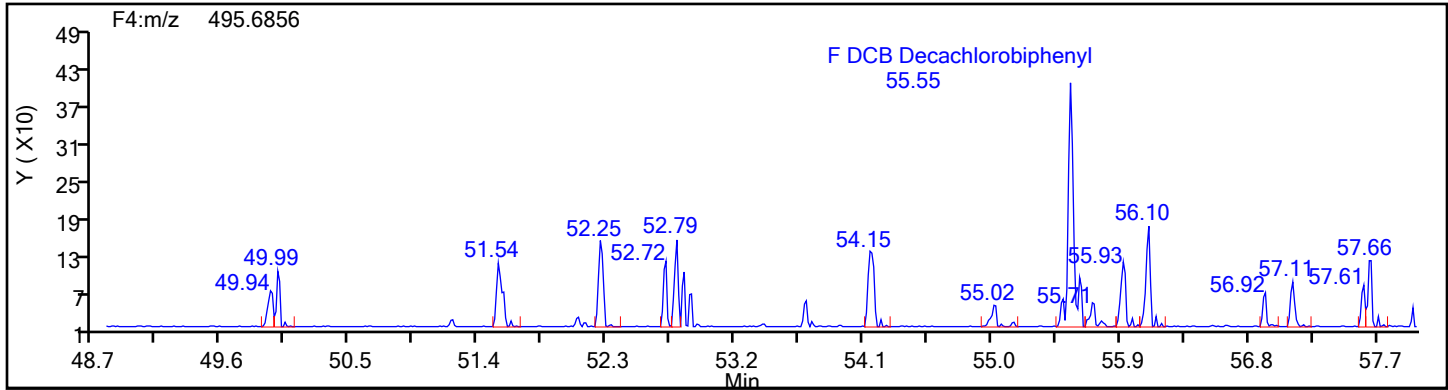


## NoPCB F4 Lock Mass

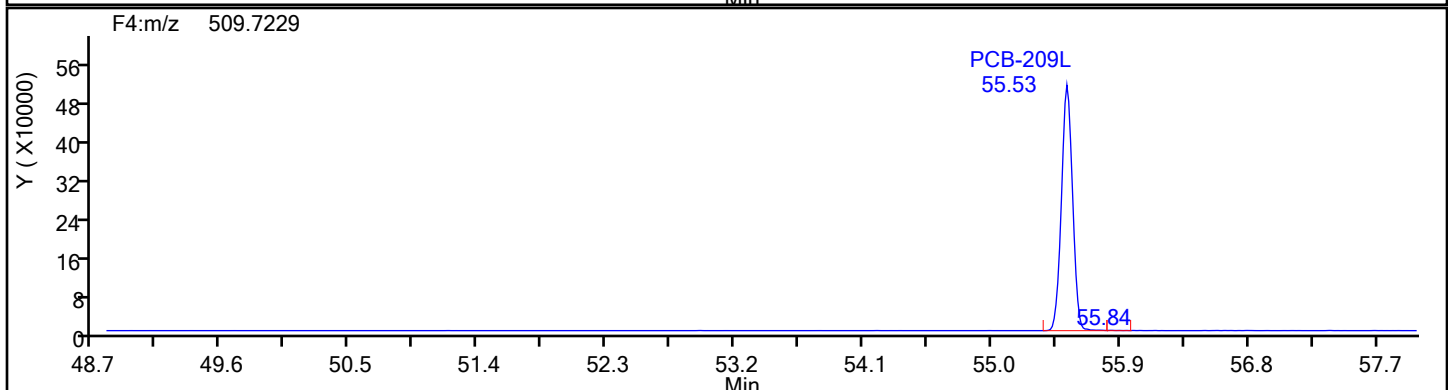
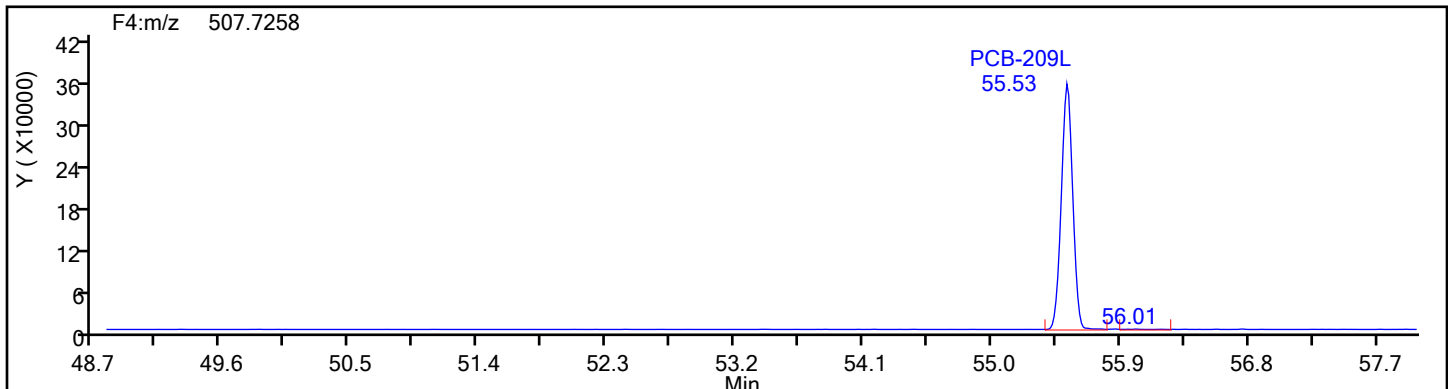


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4

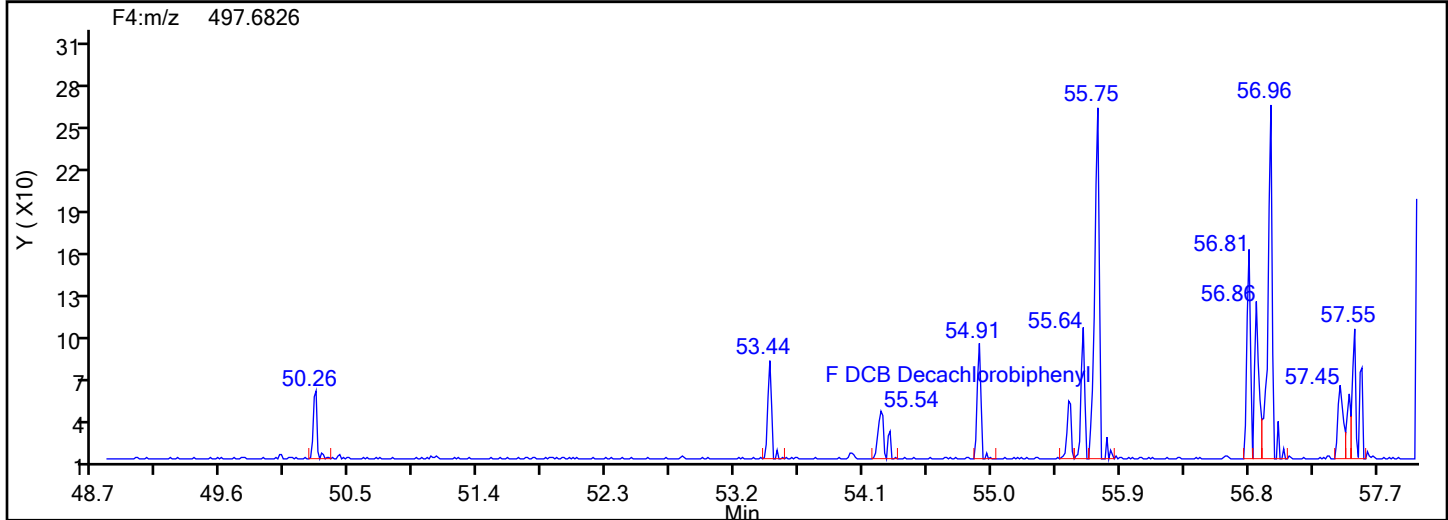
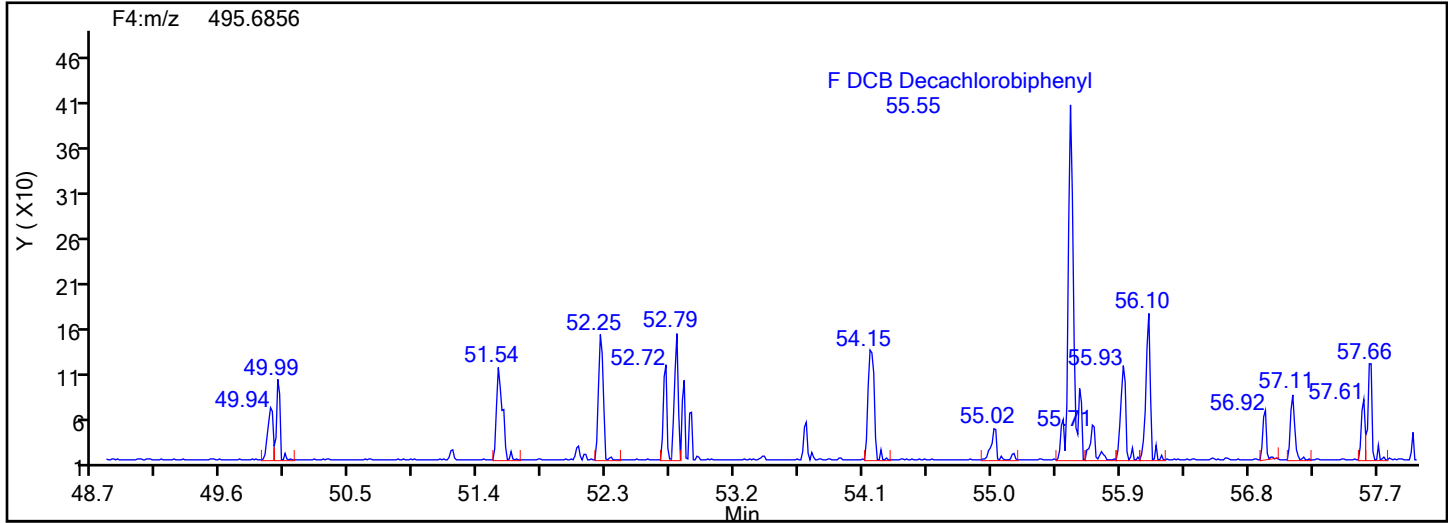


## DePCB F4 Standards

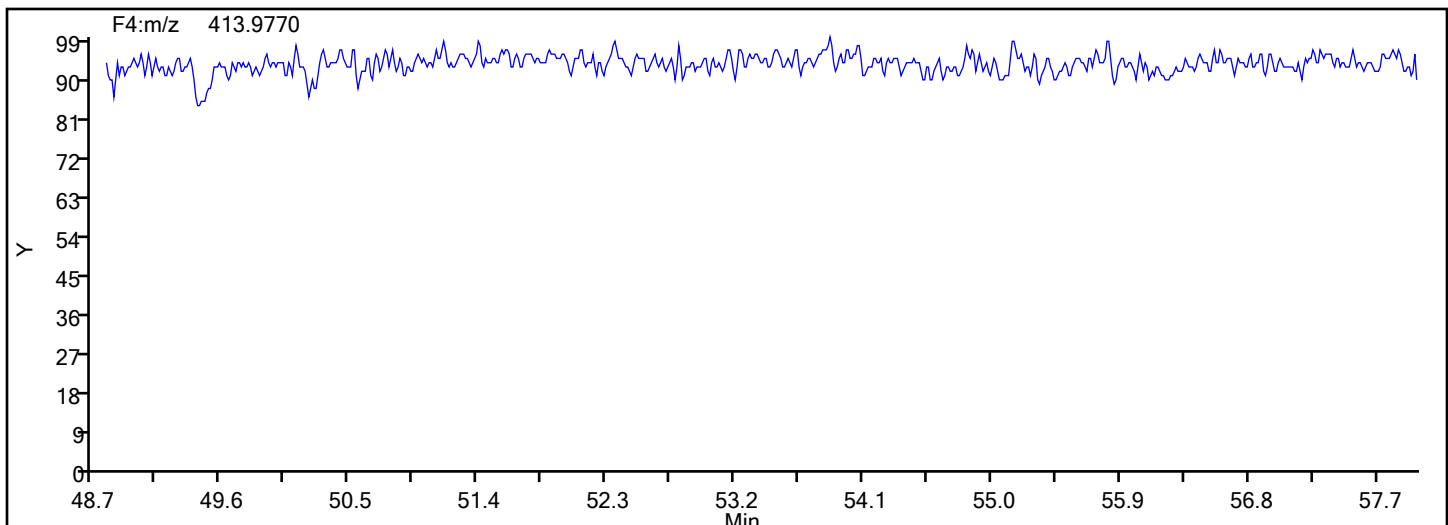


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 05:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Worklist#: 88205 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\140-36940-a-2-c.d  
Lims ID: 140-36940-A-2-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 2-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 05:01:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-010  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 12:57:24 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 12:57:24

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	29.4	88.19
PCB-28L	100.0	83.6	83.59
PCB-79L	33.3	34.0	101.87
PCB-95L	33.3	36.7	109.95
PCB-111L	100.0	89.1	89.05
PCB-153L	33.3	31.9	95.69
PCB-178L	100.0	86.5	86.55

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>3-COMBINED</u>	Lab Sample ID: <u>140-36940-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-3-c5x.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/16/2024 11:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 13:48</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	2.21	J B	3.00	0.660	0.131
37680-65-2	PCB-18	1.14	J S C	3.00	1.43	0.0226
7012-37-5	PCB-28	0.725	J C20	3.00	1.26	0.0312
41464-39-5	PCB-44	2.52	J C	4.50	1.95	0.0356
35693-99-3	PCB-52	0.643	J	1.50	0.660	0.0377
32598-10-0	PCB-66	0.176	J q	1.50	0.600	0.0275
32598-13-3	PCB-77	0.120	J	1.50	0.630	0.0318
70362-50-4	PCB-81	ND		1.50	0.480	0.0322
37680-73-2	PCB-101	0.442	J C90	4.50	1.95	0.0117
32598-14-4	PCB-105	ND		1.50	0.510	0.0579
74472-37-0	PCB-114	ND		1.50	0.825	0.0618
31508-00-6	PCB-118	ND		1.50	0.915	0.0565
65510-44-3	PCB-123	ND		1.50	0.855	0.0620
57465-28-8	PCB-126	ND		1.50	0.615	0.0642
38380-07-3	PCB-128	0.0154	J C	3.00	1.02	0.00502
35065-28-2	PCB-138	0.0445	J q	6.00	2.55	0.00521
35065-27-1	PCB-153	0.0713	J q C	3.00	1.25	0.00451
38380-08-4	PCB-156	ND	C	3.00	1.28	0.00548
69782-90-7	PCB-157	ND	C156	3.00	1.28	0.00548
52663-72-6	PCB-167	ND		1.50	0.900	0.00361
32774-16-6	PCB-169	ND		1.50	0.615	0.00368
35065-30-6	PCB-170	ND		1.50	0.660	0.00424
35065-29-3	PCB-180	0.00674	J q C	3.00	1.02	0.00334
52663-68-0	PCB-187	0.0144	J q	1.50	0.630	0.00354
39635-31-9	PCB-189	ND		1.50	0.735	0.0195
52663-78-2	PCB-195	ND		1.50	0.795	0.00361
40186-72-9	PCB-206	ND		1.50	0.855	0.121

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-3  
3-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-3-c5x.d  
Analysis Method: 23 Date Collected: 05/16/2024 11:45  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1 (Sample) Date Analyzed: 06/28/2024 13:48  
Con. Extract Vol.: 30 (mL) Dilution Factor: 5  
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88219 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
2051-24-3	PCB-209	ND		1.50	0.690	0.0125

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>3-COMBINED</u>	Lab Sample ID: <u>140-36940-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-3-c5x.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/16/2024 11:45</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 13:48</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	61		20-145
208263-77-8	PCB-3L	74		20-145
234432-86-1	PCB-4L	73		20-145
208263-67-6	PCB-15L	89		20-145
234432-87-2	PCB-19L	59		20-145
208263-79-0	PCB-37L	89		20-145
234432-88-3	PCB-54L	98		20-145
105600-23-5	PCB-77L	88		20-145
208461-24-9	PCB-81L	89		20-145
234432-89-4	PCB-104L	87		20-145
208263-62-1	PCB-105L	94		20-145
208263-63-2	PCB-114L	90		20-145
104130-40-7	PCB-118L	90		20-145
208263-64-3	PCB-123L	93		20-145
208263-65-4	PCB-126L	92		20-145
234432-90-7	PCB-155L	87		20-145
208263-68-7	PCB-156L	86	C	20-145
235416-30-5	PCB-157L	86	C156	20-145
208263-69-8	PCB-167L	84		20-145
208263-70-1	PCB-169L	84		20-145
160901-80-4	PCB-170L	91		20-145
234432-91-8	PCB-188L	88		20-145
208263-73-4	PCB-189L	63		20-145
105600-26-8	PCB-202L	86		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	102		20-145
234432-92-9	PCB-208L	105		20-145
105600-27-9	PCB-209L	104		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-3  
3-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-3-c5x.d  
Analysis Method: 23 Date Collected: 05/16/2024 11:45  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 13:48  
Con. Extract Vol.: 30(mL) Dilution Factor: 5  
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25(mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88219 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	83		20-130
235416-29-2	PCB-111L	88		20-130
232919-67-4	PCB-178L	87		20-130
STL01600	PCB-8L	99		70-130
STL01603	PCB-79L	104		70-130
STL01604	PCB-95L	107		70-130
STL01606	PCB-153L	103		70-130



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d  
Lims ID: 140-36940-A-3-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 13:48:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-007  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 15:22:09 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 15:22:09

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					879.6	879.6	0.8308	0.8308		
D PCB-1L	11:40	1872451	2.89	1.6108	12.2	12.2	0.4925	0.4925	60.87	
D PCB-3L	13:49	2256957	3.00	1.5891	14.9	14.9	0.4992	0.4992	74.36	
PCB-1	11:41	11181098	2.93	1.2191	98.0	98.0	0.8427	0.8427		
PCB-2	13:39	54604459	2.96	1.1805	448.1	448.1	0.8487	0.8487		
PCB-3	13:50	45953987	2.93	1.2206	333.6	333.6	0.8010	0.8010		
S Total Dichlorobiphenyls					68.2	67.0	0.1015	0.1015		RQ
D PCB-4L	14:05	896839	1.57	0.6475	14.5	14.5	0.1831	0.1831	72.52	
* PCB-9L	16:02	1909818	1.58		20.0	20.0				
\$ PCB-8L	16:52	543304	1.74	1.2066	6.578	6.578	0.1434	0.1434	98.66	
D PCB-15L	19:58	1841393	1.64	1.0789	17.9	17.9	0.1099	0.1099	89.36	
PCB-4	14:05	61593	1.56	1.2818	2.211	1.072	0.1383	0.1383		RQ
PCB-10	14:16	323803	1.58	1.3149	3.597	3.597	0.1053	0.1053		
PCB-9	16:04	33712	1.56	1.4224	0.4161	0.3462	0.0973	0.0973		RQ
PCB-7	16:12	3929931	1.60	1.4134	40.6	40.6	0.0980	0.0980		
PCB-6	16:27	133483	1.72	1.5421	1.264	1.264	0.0898	0.0898		M
PCB-5	16:46	48631	1.77	1.3395	0.5304	0.5304	0.1034	0.1034		M
PCB-8	16:53	159937	1.68	1.5889	1.470	1.470	0.0872	0.0872		M
PCB-14	18:32	233511	1.45	1.4025	2.432	2.432	0.0987	0.0987		
PCB-11	19:22	1194601	1.60	1.2951	13.5	13.5	0.1069	0.1069		
PCB-12	19:42	170343	1.69	1.3358	1.863	1.863	0.1037	0.1037		
PCB-13 (C12)	19:42	170343	1.69	1.3358	1.863	1.863	0.1037	0.1037		
PCB-15	20:00	42941	1.47	1.2903	0.3615	0.3615	0.0880	0.0880		
S Total Trichlorobiphenyls					4.850	4.661	0.0202	0.0202		RQ
D PCB-19L	17:11	411336	1.09	0.6285	11.8	11.8	0.4910	0.4910	58.85	
* PCB-32L	20:27	1112012	1.12		20.0	20.0				
* PCB-31L	22:41	2430073	0.99		20.0	20.0				
\$ PCB-28L	22:59	2120693	1.03	1.0494	16.6	16.6	0.2098	0.2098	83.16	
D PCB-37L	26:58	1898907	1.02	0.8749	17.9	17.9	0.2517	0.2517	89.31	
PCB-19	17:12	3748	1.04	1.2809	0.1625	0.1423	0.0208	0.0208		RQ
PCB-18	19:05	27515	0.96	1.7652	0.7579	0.7579	0.0151	0.0151		M
PCB-30 (C18)	19:05	27515	0.96	1.7652	0.7579	0.7579	0.0151	0.0151		M
PCB-17	19:29	21084	1.04	1.2430	0.9018	0.8247	0.0214	0.0214		RQ
PCB-27	19:43	3490	1.04	1.8327	0.1002	0.0926	0.0145	0.0145		RQM

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:51	3576	1.04	1.6777	0.1147	0.1036	0.0159	0.0159		RQ
PCB-16	19:58	12293	1.12	1.1286	0.5296	0.5296	0.0236	0.0236		
PCB-32	20:28	9223	1.04	1.8324	0.2748	0.2447	0.0145	0.0145		RQ
PCB-34	21:41						0.0216	0.0216		
PCB-23	21:49						0.0225	0.0225		
PCB-26	22:10	17799	1.02	1.1255	0.1666	0.1666	0.0216	0.0216		
PCB-29 (C26)	22:10	17799	1.02	1.1255	0.1666	0.1666	0.0216	0.0216		
PCB-25	22:24	8857	0.91	1.2728	0.0733	0.0733	0.0191	0.0191		
PCB-31	22:42	39564	1.02	1.1532	0.3613	0.3613	0.0211	0.0211		
PCB-20	23:00	53749	0.95	1.1718	0.4831	0.4831	0.0208	0.0208		
PCB-28 (C20)	23:00	53749	0.95	1.1718	0.4831	0.4831	0.0208	0.0208		
PCB-21	23:13	36987	0.93	1.0746	0.3625	0.3625	0.0227	0.0227		M
PCB-33 (C21)	23:13	36987	0.93	1.0746	0.3625	0.3625	0.0227	0.0227		M
PCB-22	23:38	14660	0.91	1.1932	0.1294	0.1294	0.0204	0.0204		M
PCB-36	25:11	5601	1.02	1.1071	0.0533	0.0533	0.0220	0.0220		
PCB-39	25:32	2771	1.04	1.1581	0.0320	0.0252	0.0210	0.0210		RQ
PCB-38	26:06						0.0225	0.0225		
PCB-35	26:35	19075	1.04	1.1297	0.2014	0.1778	0.0216	0.0216		RQM
PCB-37	27:00	14388	1.04	1.1435	0.1455	0.1325	0.0213	0.0213		RQ
S Total Tetrachlorobiphenyls					4.793	4.652	0.0211	0.0211		RQ
D PCB-54L	20:16	608511	0.80	0.5562	19.7	19.7	0.0773	0.0773	98.38	
* PCB-52L	24:48	1876267	0.81		20.0	20.0				
\$ PCB-79L	32:43	741791	0.85	1.0018	6.927	6.927	0.0661	0.0661	104	
D PCB-81L	33:42	2086030	0.82	1.2470	17.8	17.8	0.0529	0.0529	89.16	
D PCB-77L	34:16	2189477	0.78	1.3212	17.7	17.7	0.0499	0.0499	88.32	
PCB-54	20:16						0.005210	0.005210		
PCB-50	22:25						0.0269	0.0269		
PCB-53 (C50)	22:25						0.0269	0.0269		
PCB-45	23:11	97343	0.81	0.8264	1.102	1.102	0.0280	0.0280		
PCB-51 (C45)	23:11	97343	0.81	0.8264	1.102	1.102	0.0280	0.0280		
PCB-46	23:24						0.0325	0.0325		
PCB-52	24:50	42142	0.74	0.9194	0.4288	0.4288	0.0251	0.0251		
PCB-43	24:56						0.0224	0.0224		
PCB-73 (C43)	24:56						0.0224	0.0224		
PCB-49	25:19	26008	0.81	1.0685	0.2277	0.2277	0.0216	0.0216		
PCB-69 (C49)	25:19	26008	0.81	1.0685	0.2277	0.2277	0.0216	0.0216		
PCB-48	25:35	2635	0.77	0.8399	0.0606	0.0294	0.0275	0.0275		RQ
PCB-44	25:51	174588	0.78	0.9731	1.679	1.679	0.0237	0.0237		M
PCB-47 (C44)	25:51	174588	0.78	0.9731	1.679	1.679	0.0237	0.0237		M
PCB-65 (C44)	25:51	174588	0.78	0.9731	1.679	1.679	0.0237	0.0237		M
PCB-59	26:07						0.0195	0.0195		
PCB-62 (C59)	26:07						0.0195	0.0195		
PCB-75 (C59)	26:07						0.0195	0.0195		
PCB-42	26:22	9106	0.80	0.8097	0.1052	0.1052	0.0285	0.0285		
PCB-40	26:50	14415	0.77	0.8863	0.2008	0.1522	0.0261	0.0261		RQ
PCB-41 (C40)	26:50	14415	0.77	0.8863	0.2008	0.1522	0.0261	0.0261		RQ
PCB-71 (C40)	26:50	14415	0.77	0.8863	0.2008	0.1522	0.0261	0.0261		RQ
PCB-64	27:02	11371	0.77	1.1776	0.1160	0.0903	0.0196	0.0196		RQ
PCB-72	27:51						0.0211	0.0211		
PCB-68	28:10	34447	0.65	1.2533	0.2571	0.2571	0.0184	0.0184		M
PCB-57	28:34						0.0214	0.0214		
PCB-58	28:49						0.0174	0.0174		
PCB-67	28:58						0.0162	0.0162		
PCB-63	29:14						0.0206	0.0206		
PCB-61	29:36	44040	0.77	1.2612	0.3267	0.3267	0.0183	0.0183		
PCB-70 (C61)	29:36	44040	0.77	1.2612	0.3267	0.3267	0.0183	0.0183		
PCB-74 (C61)	29:36	44040	0.77	1.2612	0.3267	0.3267	0.0183	0.0183		
PCB-76 (C61)	29:36	44040	0.77	1.2612	0.3267	0.3267	0.0183	0.0183		
PCB-66	29:54	15773	0.77	1.2583	0.1383	0.1173	0.0184	0.0184		RQM
PCB-55	30:04						0.0175	0.0175		
PCB-56	30:36	7456	0.77	1.2334	0.0713	0.0566	0.0187	0.0187		RQM

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:47						0.0206	0.0206		
PCB-80	31:11						0.0174	0.0174		
PCB-79	32:43						0.0161	0.0161		
PCB-78	33:16						0.0199	0.0199		
PCB-81	33:43						0.0215	0.0215		
PCB-77	34:19	9493	0.89	1.0836	0.0800	0.0800	0.0212	0.0212		
S Total Pentachlorobiphenyls					1.436	1.245	0.0185	0.0185		RQ
D PCB-104L	25:44	1321584	1.59	1.2161	17.4	17.4	0.0769	0.0769	86.83	
\$ PCB-95L	28:43	341506	1.69	0.7218	7.160	7.160	0.1113	0.1113	107	
* PCB-101L	31:38	1251610	1.63		20.0	20.0				
\$ PCB-111L	34:18	1509889	1.55	1.3699	17.6	17.6	0.0682	0.0682	88.06	
D PCB-123L	36:15	1648091	1.52	0.9731	18.6	18.6	0.2846	0.2846	93.25	
D PCB-118L	36:35	1643963	1.51	1.0102	17.9	17.9	0.2741	0.2741	89.60	
D PCB-114L	37:07	1621489	1.54	0.9949	17.9	17.9	0.2784	0.2784	89.74	
D PCB-105L	37:46	1628601	1.48	0.9514	18.8	18.8	0.2911	0.2911	94.25	
* PCB-127L	39:14	1816256	1.58		20.0	20.0				
D PCB-126L	40:51	1573839	1.58	0.9439	18.4	18.4	0.2934	0.2934	91.81	
PCB-104	25:45						0.007372	0.007372		
PCB-96	26:08						0.006797	0.006797		
PCB-103	28:02						0.008507	0.008507		
PCB-94	28:16						0.009733	0.009733		
PCB-95	28:44	12520	1.55	0.8033	0.3043	0.2359	0.009258	0.009258		RQ
PCB-93	28:55						0.008823	0.008823		
PCB-100 (C93)	28:55						0.008823	0.008823		
PCB-98	29:05	1994	1.55	0.8262	0.0542	0.0365	0.009001	0.009001		RQ
PCB-102 (C98)	29:05	1994	1.55	0.8262	0.0542	0.0365	0.009001	0.009001		RQ
PCB-88	29:35	3392	1.55	0.8013	0.0841	0.0641	0.009280	0.009280		RQ
PCB-91 (C88)	29:35	3392	1.55	0.8013	0.0841	0.0641	0.009280	0.009280		RQ
PCB-84	29:48	3995	1.55	0.7299	0.0909	0.0828	0.0102	0.0102		RQ
PCB-89	30:17						0.009536	0.009536		
PCB-121	30:40						0.005736	0.005736		
PCB-92	31:03						0.008702	0.008702		
PCB-90	31:39	18605	1.61	0.9550	0.2948	0.2948	0.007787	0.007787		
PCB-101 (C90)	31:39	18605	1.61	0.9550	0.2948	0.2948	0.007787	0.007787		
PCB-113 (C90)	31:39	18605	1.61	0.9550	0.2948	0.2948	0.007787	0.007787		
PCB-83	32:13	5691	1.55	0.8385	0.1162	0.1027	0.008869	0.008869		RQM
PCB-99 (C83)	32:13	5691	1.55	0.8385	0.1162	0.1027	0.008869	0.008869		RQM
PCB-112	32:20						0.005270	0.005270		
PCB-86	32:50	15986	1.55	1.0473	0.2548	0.2310	0.007101	0.007101		RQM
PCB-87 (C86)	32:50	15986	1.55	1.0473	0.2548	0.2310	0.007101	0.007101		RQM
PCB-97 (C86)	32:50	15986	1.55	1.0473	0.2548	0.2310	0.007101	0.007101		RQM
PCB-109 (C86)	32:50	15986	1.55	1.0473	0.2548	0.2310	0.007101	0.007101		RQM
PCB-119 (C86)	32:50	15986	1.55	1.0473	0.2548	0.2310	0.007101	0.007101		RQM
PCB-125 (C86)	32:50	15986	1.55	1.0473	0.2548	0.2310	0.007101	0.007101		RQM
PCB-85	33:26	2470	1.55	1.0408	0.0540	0.0359	0.007145	0.007145		RQ
PCB-116 (C85)	33:26	2470	1.55	1.0408	0.0540	0.0359	0.007145	0.007145		RQ
PCB-117 (C85)	33:26	2470	1.55	1.0408	0.0540	0.0359	0.007145	0.007145		RQ
PCB-110	33:36	12675	1.55	1.1919	0.1827	0.1609	0.006239	0.006239		RQ
PCB-115 (C110)	33:36	12675	1.55	1.1919	0.1827	0.1609	0.006239	0.006239		RQ
PCB-82	33:56						0.008956	0.008956		
PCB-111	34:19						0.006133	0.006133		
PCB-120	34:46						0.005037	0.005037		
PCB-108	35:55						0.0398	0.0398		
PCB-124 (C108)	35:55						0.0398	0.0398		
PCB-107	36:10						0.0375	0.0375		
PCB-123	36:16						0.0413	0.0413		
PCB-106	36:23						0.0419	0.0419		
PCB-118	36:36						0.0377	0.0377		
PCB-122	36:57						0.0475	0.0475		
PCB-114	37:07						0.0412	0.0412		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:47						0.0386	0.0386		
PCB-127	39:14						0.0399	0.0399		
PCB-126	40:52						0.0428	0.0428		
S Total Hexachlorobiphenyls					0.4253	0.3154	0.003041	0.003041		RQ
D PCB-155L	31:23	1186230	1.28	1.0851	17.5	17.5	0.0315	0.0315	87.34	
\$ PCB-153L	38:27	562079	1.29	0.9169	6.838	6.838	0.0662	0.0662	103	
* PCB-138L	39:42	1708988	1.31		20.0	20.0				
D PCB-167L	42:41	1812354	1.27	1.2572	16.9	16.9	0.0415	0.0415	84.35	
D PCB-156L	43:52	3576404	1.25	1.2106	34.6	34.6	0.0432	0.0432	86.43	
D PCB-157L (C156L)	43:52	3576404	1.25	1.2106	34.6	34.6	0.0432	0.0432	86.43	
D PCB-169L	47:04	1782996	1.26	1.2439	16.8	16.8	0.0420	0.0420	83.88	
PCB-155	31:23						0.001788	0.001788		
PCB-152	31:37						0.001707	0.001707		
PCB-150	31:46						0.001667	0.001667		
PCB-136	32:08	2894	1.35	1.0116	0.0482	0.0482	0.001670	0.001670		
PCB-145	32:26						0.001744	0.001744		
PCB-148	33:56						0.002222	0.002222		
PCB-135	34:34	1216	1.24	0.7256	0.0508	0.0283	0.002328	0.002328		RQM
PCB-151 (C135)	34:34	1216	1.24	0.7256	0.0508	0.0283	0.002328	0.002328		RQM
PCB-154	34:46						0.002078	0.002078		
PCB-144	35:05						0.002151	0.002151		
PCB-147	35:27	5644	1.24	0.8950	0.0895	0.0703	0.003674	0.003674		RQ
PCB-149 (C147)	35:27	5644	1.24	0.8950	0.0895	0.0703	0.003674	0.003674		RQ
PCB-134	35:42	1157	1.24	0.7967	0.0213	0.0162	0.004128	0.004128		RQa
PCB-143 (C134)	35:42	1157	1.24	0.7967	0.0213	0.0162	0.004128	0.004128		RQa
PCB-139	36:05	922	1.24	0.8769	0.0154	0.0117	0.003750	0.003750		RQ
PCB-140 (C139)	36:05	922	1.24	0.8769	0.0154	0.0117	0.003750	0.003750		RQ
PCB-131	36:18	315	1.24	0.7503	0.007122	0.004683	0.004383	0.004383		RQM
PCB-142	36:24						0.004380	0.004380		
PCB-132	36:45	1417	1.24	0.7489	0.0487	0.0211	0.004391	0.004391		RQ
PCB-133	37:13	644	1.24	0.8096	0.0099	0.008873	0.004062	0.004062		RQ
PCB-165	37:36						0.003209	0.003209		
PCB-146	37:51						0.003412	0.003412		
PCB-161	37:58	309	1.24	1.1288	0.007688	0.003054	0.002913	0.002913		RQ
PCB-153	38:30	4659	1.24	1.0938	0.0531	0.0475	0.003006	0.003006		RQM
PCB-168 (C153)	38:30	4659	1.24	1.0938	0.0531	0.0475	0.003006	0.003006		RQM
PCB-141	38:43	932	1.24	0.8755	0.0157	0.0119	0.003756	0.003756		RQM
PCB-130	39:05						0.004664	0.004664		
PCB-137	39:17						0.004234	0.004234		
PCB-164	39:25						0.003167	0.003167		
PCB-129	39:45	2516	1.24	0.9464	0.0426	0.0297	0.003475	0.003475		RQM
PCB-138 (C129)	39:45	2516	1.24	0.9464	0.0426	0.0297	0.003475	0.003475		RQM
PCB-160 (C129)	39:45	2516	1.24	0.9464	0.0426	0.0297	0.003475	0.003475		RQM
PCB-163 (C129)	39:45	2516	1.24	0.9464	0.0426	0.0297	0.003475	0.003475		RQM
PCB-158	40:06						0.002508	0.002508		
PCB-128	40:55	906	1.22	0.9829	0.0103	0.0103	0.003345	0.003345		
PCB-166 (C128)	40:55	906	1.22	0.9829	0.0103	0.0103	0.003345	0.003345		
PCB-159	41:57						0.002373	0.002373		
PCB-162	42:15						0.002616	0.002616		
PCB-167	42:42						0.002404	0.002404		
PCB-156	43:55	358	1.24	1.1104	0.004865	0.003606	0.003651	0.003651		RQ
PCB-157 (C156)	43:55	358	1.24	1.1104	0.004865	0.003606	0.003651	0.003651		RQ
PCB-169	47:05						0.002456	0.002456		
S Total Heptachlorobiphenyls					0.0708	0.0436	0.002894	0.002894		RQ
D PCB-188L	37:06	1494832	1.09	1.3133	17.6	17.6	0.0208	0.0208	88.16	
\$ PCB-178L	40:10	1153650	1.11	1.0313	17.3	17.3	0.0265	0.0265	86.64	
* PCB-180L	45:13	1291051	1.08		20.0	20.0				
D PCB-170L	46:29	983928	1.06	0.8362	18.2	18.2	0.0327	0.0327	91.14	
D PCB-189L	49:35	1423414	1.02	1.4414	12.5	12.5	0.2699	0.2699	62.66	
PCB-188	37:07						0.001866	0.001866		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:27	543	1.05	1.4276	0.009292	0.006138	0.001820	0.001820		RQ
PCB-184	37:59	405	1.05	1.3672	0.006563	0.004780	0.001900	0.001900		RQ
PCB-176	38:20						0.002107	0.002107		
PCB-186	38:48						0.001763	0.001763		
PCB-178	40:10						0.002904	0.002904		
PCB-175	40:48						0.002727	0.002727		
PCB-187	41:05	655	1.05	1.1018	0.0143	0.009593	0.002358	0.002358		RQ
PCB-182	41:18	185	1.05	0.9247	0.008621	0.003228	0.002809	0.002809		RQM
PCB-183	41:39	564	1.05	0.9825	0.0125	0.009263	0.002644	0.002644		RQ
PCB-185 (C183)	41:39	564	1.05	0.9825	0.0125	0.009263	0.002644	0.002644		RQ
PCB-174	41:58	364	1.05	0.9642	0.009339	0.006092	0.002694	0.002694		RQ
PCB-177	42:22						0.002658	0.002658		
PCB-181	42:44						0.002733	0.002733		
PCB-171	42:58						0.002782	0.002782		
PCB-173 (C171)	42:58						0.002782	0.002782		
PCB-172	44:36						0.003049	0.003049		
PCB-192	44:52						0.001930	0.001930		
PCB-180	45:11	325	1.05	1.1676	0.0102	0.004492	0.002225	0.002225		RQ
PCB-193 (C180)	45:11	325	1.05	1.1676	0.0102	0.004492	0.002225	0.002225		RQ
PCB-191	45:36						0.002015	0.002015		
PCB-170	46:31						0.002830	0.002830		
PCB-190	47:01						0.001950	0.001950		
PCB-189	49:37						0.0130	0.0130		
S Total Octachlorobiphenyls					0.0108	0.0108	0.003379	0.003379		
D PCB-202L	42:28	1087781	0.94	0.9818	17.2	17.2	0.0302	0.0302	85.82	
* PCB-194L	51:41	1576047	0.89		20.0	20.0				
D PCB-205L	52:10	1658126	0.87	1.1786	17.9	17.9	0.2798	0.2798	89.27	
PCB-202	42:29						0.003586	0.003586		
PCB-201	43:24						0.003808	0.003808		
PCB-204	44:03						0.003543	0.003543		
PCB-197	44:18						0.003242	0.003242		
PCB-200	44:26	594	0.99	1.0072	0.0108	0.0108	0.003688	0.003688		
PCB-198	47:10						0.004270	0.004270		
PCB-199 (C198)	47:10						0.004270	0.004270		
PCB-196	47:51						0.004758	0.004758		
PCB-203	48:03						0.003997	0.003997		
PCB-195	49:23						0.002408	0.002408		
PCB-194	51:43						0.002044	0.002044		
PCB-205	52:11						0.001829	0.001829		
S Total Nonachlorobiphenyls							0.0807	0.0807		
D PCB-208L	49:06	1586488	0.79	0.9576	21.0	21.0	0.0837	0.0837	105	
D PCB-206L	53:54	1118080	0.80	0.6947	20.4	20.4	0.1153	0.1153	102	
PCB-208	49:08						0.0665	0.0665		
PCB-207	50:03						0.0646	0.0646		
PCB-206	53:56						0.0807	0.0807		
D PCB-209L	55:31	1088930	0.71	0.6669	20.7	20.7	0.0548	0.0548	104	
DCB Decachlorobiphenyl	55:33						0.008334	0.008334		
S Polychlorinated biphenyls, Total					79.8		0.0288	0.0288		RQ

### QC Flag Legend

#### Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

#### Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d  
Lims ID: 140-36940-A-3-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 13:48:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-007  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 15:22:09 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 15:22:09

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:40	11:41	0	0.728	1391071	548046	885	2212	619		
202.0766	11:40	11:41	0	0.728	481380	176377	7821	19552	23	2.89(2.66-3.60)	
PCB-3L											
200.0795	13:49	13:49	0	0.861	1692043	577967	885	2212	653		
202.0766	13:49	13:49	0	0.861	564914	183176	7821	19552	23	3.00(2.66-3.60)	
PCB-1											
188.0393	11:41	11:40	1	1.001	8338025	3255539	14190	35475	229		
190.0363	11:41	11:40	1	1.001	2843073	1118132	694	1735	1611	2.93(2.66-3.60)	
PCB-2											
188.0393	13:39	13:39	1	0.989	40831069	14486437	14190	35475	1021		
190.0363	13:39	13:39	1	0.989	13773390	4806345	694	1735	6926	2.96(2.66-3.60)	
PCB-3											
188.0393	13:50	13:50	0	1.001	34250112	11631269	14190	35475	820		
190.0363	13:50	13:50	0	1.001	11703875	3967310	694	1735	5717	2.93(2.66-3.60)	
PCB-4L											
234.0406	14:05	14:04	1	0.878	548090	179143	538	1345	333		
236.0376	14:05	14:04	1	0.878	348749	114385	763	1907	150	1.57(1.33-1.79)	
PCB-9L											
234.0406	16:02	16:01	1		1168622	331101	538	1345	615		
236.0376	16:02	16:01	1		741196	217564	763	1907	285	1.58(1.33-1.79)	
PCB-8L											
234.0406	16:52	16:53	1	1.199	345250	87322	538	1345	162		
236.0376	16:52	16:53	1	1.199	198054	48864	763	1907	64	1.74(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:58	19:57	2	1.246	1142985	283029	538	1345	526		
236.0376	19:58	19:57	2	1.246	698408	175073	763	1907	229	1.64(1.33-1.79)	
PCB-4											
222.0003	14:05	14:06	0	1.001	103005	14569	714	1785	20		RQ
	Empc Correction				37533	11104	714	1785	16		
223.9974	14:05	14:06	0	1.001	24060	7118	327	817	22	4.28(1.33-1.79)	
PCB-10											
222.0003	14:16	14:16	1	1.013	198527	60156	714	1785	84		
223.9974	14:16	14:16	1	1.013	125276	39023	327	817	119	1.58(1.33-1.79)	
PCB-9											
222.0003	16:04	16:03	2	1.141	27345	6465	714	1785	9		RQ
	Empc Correction				20543	5810	714	1785	8		
223.9974	16:03	16:03	1	1.140	13169	3725	327	817	11	2.08(1.33-1.79)	
PCB-7											
222.0003	16:12	16:13	0	1.151	2418672	724506	714	1785	1015		
223.9974	16:12	16:13	0	1.151	1511259	446980	327	817	1367	1.60(1.33-1.79)	
PCB-6											
222.0003	16:27	16:28	0	1.169	84470	18830	714	1785	26		M
223.9974	16:27	16:28	0	1.169	49013	13655	327	817	42	1.72(1.33-1.79)	M
PCB-5											
222.0003	16:46	16:46	1	1.191	31097	7157	714	1785	10		M
223.9974	16:46	16:46	1	1.191	17534	5328	327	817	16	1.77(1.33-1.79)	M
PCB-8											
222.0003	16:53	16:53	1	1.200	100170	27025	714	1785	38		M
223.9974	16:53	16:53	1	1.200	59767	17241	327	817	53	1.68(1.33-1.79)	M
PCB-14											
222.0003	18:32	18:31	2	0.928	138174	38824	714	1785	54		
223.9974	18:32	18:31	2	0.928	95337	25457	327	817	78	1.45(1.33-1.79)	
PCB-11											
222.0003	19:22	19:22	2	0.970	734989	189622	714	1785	266		
223.9974	19:22	19:22	2	0.970	459612	119923	327	817	367	1.60(1.33-1.79)	
PCB-12											
222.0003	19:42	19:40	4	0.986	106997	22340	714	1785	31		
223.9974	19:42	19:40	4	0.986	63346	12998	327	817	40	1.69(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:42	19:40	4	0.986	106997	22340	714	1785	31		
223.9974	19:42	19:40	4	0.986	63346	12998	327	817	40	1.69(1.33-1.79)	
PCB-15											
222.0003	20:00	19:59	3	1.001	25584	6856	714	1785	10		
223.9974	19:59	19:59	2	1.001	17357	4001	327	817	12	1.47(1.33-1.79)	
PCB-19L											
268.0016	17:11	17:12	1	0.840	214244	53684	1080	2700	50		
269.9986	17:11	17:12	1	0.840	197092	49303	601	1502	82	1.09(0.88-1.20)	
PCB-32L											
268.0016	20:27	20:25	2		587971	142063	1080	2700	132		
269.9986	20:27	20:25	2		524041	130228	601	1502	217	1.12(0.88-1.20)	



Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:41	22:39	2		1208814	286871	1106	2765	259		
269.9986	22:41	22:39	2		1221259	299114	1475	3687	203	0.99(0.88-1.20)	
PCB-28L											
268.0016	22:59	22:59	2	1.013	1075050	245958	1106	2765	222		
269.9986	22:58	22:59	1	1.012	1045643	247146	1475	3687	168	1.03(0.88-1.20)	
PCB-37L											
268.0016	26:58	26:59	1	1.189	957256	202616	1106	2765	183		
269.9986	26:59	26:59	2	1.189	941651	208066	1475	3687	141	1.02(0.88-1.20)	
PCB-19											
255.9613	17:12	17:12	1	1.002	1911	674	33	82	20		RQ
257.9584	17:12	17:12	1	1.002	2370	821	22	55	37	0.81(0.88-1.20)	
Empc Correction					1837	648	22	55	29		
PCB-18											
255.9613	19:05	19:05	5	1.111	13499	3621	33	82	110		M
257.9584	19:05	19:05	5	1.111	14016	3806	22	55	173	0.96(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:05	19:05	5	1.111	13499	3621	33	82	110		M
257.9584	19:05	19:05	5	1.111	14016	3806	22	55	173	0.96(0.88-1.20)	M
PCB-17											
255.9613	19:29	19:28	2	1.135	10749	3342	33	82	101		RQ
257.9584	19:28	19:28	1	1.134	12305	2568	22	55	117	0.87(0.88-1.20)	
Empc Correction					10335	3213	22	55	146		
PCB-27											
255.9613	19:43	19:43	3	1.148	2064	621	33	82	19		RQM
Empc Correction					1779	358	33	82	11		
257.9584	19:43	19:43	2	1.148	1711	345	22	55	16	1.21(0.88-1.20)	M
PCB-24											
255.9613	19:51	19:48	4	1.156	2205	488	33	82	15		RQ
Empc Correction					1823	606	33	82	18		
257.9584	19:49	19:48	1	1.154	1753	583	22	55	27	1.26(0.88-1.20)	
PCB-16											
255.9613	19:58	19:56	2	1.162	6500	1808	33	82	55		
257.9584	19:56	19:56	1	1.161	5793	1415	22	55	64	1.12(0.88-1.20)	
PCB-32											
255.9613	20:28	20:26	3	1.192	4702	1276	33	82	39		RQ
257.9584	20:28	20:26	3	1.192	5653	1729	22	55	79	0.83(0.88-1.20)	
Empc Correction					4521	1226	22	55	56		
PCB-34											
255.9613	21:42						96	240			
257.9584	21:42						104	260			
PCB-23											
255.9613	21:50						96	240			
257.9584	21:50						104	260			
PCB-26											
255.9613	22:10	22:09	2	1.291	8973	2222	96	240	23		
257.9584	22:10	22:09	2	1.291	8826	1902	104	260	18	1.02(0.88-1.20)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											
255.9613	22:10	22:09	2	1.291	8973	2222	96	240	23		
257.9584	22:10	22:09	2	1.291	8826	1902	104	260	18	1.02(0.88-1.20)	
PCB-25											
255.9613	22:24	22:23	2	0.831	4227	1309	96	240	14		
257.9584	22:22	22:23	0	0.830	4630	941	104	260	9	0.91(0.88-1.20)	
PCB-31											
255.9613	22:42	22:41	1	0.842	19940	3997	96	240	42		
257.9584	22:42	22:41	2	0.842	19624	4740	104	260	46	1.02(0.88-1.20)	
PCB-20											
255.9613	23:00	23:00	1	0.853	26152	6020	96	240	63		
257.9584	23:00	23:00	1	0.853	27597	6335	104	260	61	0.95(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	23:00	1	0.853	26152	6020	96	240	63		
257.9584	23:00	23:00	1	0.853	27597	6335	104	260	61	0.95(0.88-1.20)	
PCB-21											
255.9613	23:13	23:13	4	0.861	17864	3920	96	240	41		M
257.9584	23:14	23:13	5	0.862	19123	3817	104	260	37	0.93(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:13	23:13	4	0.861	17864	3920	96	240	41		M
257.9584	23:14	23:13	5	0.862	19123	3817	104	260	37	0.93(0.88-1.20)	M
PCB-22											
255.9613	23:38	23:38	1	0.876	6986	1975	96	240	21		M
257.9584	23:38	23:38	1	0.876	7674	1603	104	260	15	0.91(0.88-1.20)	M
PCB-36											
255.9613	25:11	25:10	2	0.934	2822	859	96	240	9		
257.9584	25:10	25:10	1	0.934	2779	787	104	260	8	1.02(0.88-1.20)	
PCB-39											
255.9613	25:32	25:32	1	0.947	1413	670	96	240	7		RQ
257.9584	25:33	25:32	2	0.948	2103	706	104	260	7	0.67(0.88-1.20)	
Empc Correction					1358	644	104	260	6		
PCB-38											
255.9613	26:06						96	240			
257.9584	26:06						104	260			
PCB-35											
255.9613	26:35	26:36	1	0.986	9725	1910	96	240	20		RQM
257.9584	26:36	26:36	2	0.986	11879	2330	104	260	22	0.82(0.88-1.20)	M
Empc Correction					9350	1836	104	260	18		
PCB-37											
255.9613	27:00	26:59	2	1.001	8743	1257	96	240	13		RQ
Empc Correction					7335	1686	96	240	18		
257.9584	27:00	26:59	2	1.001	7053	1622	104	260	16	1.24(0.88-1.20)	
PCB-54L											
301.9626	20:16	20:15	2	0.817	270720	67602	131	327	516		
303.9597	20:16	20:15	2	0.817	337791	89178	103	257	866	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-52L											
301.9626	24:48	24:47	1		841033	189579	318	795	596		
303.9597	24:48	24:47	1		1035234	236580	244	610	970	0.81(0.65-0.89)	
PCB-79L											
301.9626	32:43	32:42	1	0.971	341120	69541	318	795	219		
303.9597	32:42	32:42	1	0.970	400671	82133	244	610	337	0.85(0.65-0.89)	
PCB-81L											
301.9626	33:42	33:42	1	1.359	940864	190231	318	795	598		
303.9597	33:42	33:42	1	1.359	1145166	231857	244	610	950	0.82(0.65-0.89)	
PCB-77L											
301.9626	34:16	34:17	0	1.381	958468	188883	318	795	594		
303.9597	34:16	34:17	0	1.381	1231009	237291	244	610	973	0.78(0.65-0.89)	
PCB-54											
289.9224	20:16						3	7			
291.9194	20:16						18	45			
PCB-50											
289.9224	22:28						78	195			
291.9194	22:28						118	295			
PCB-53 (C50)											
289.9224	22:28						78	195			
291.9194	22:28						118	295			
PCB-45											
289.9224	23:11	23:12	2	1.143	43670	9455	78	195	121		
291.9194	23:10	23:12	1	1.143	53673	12001	118	295	102	0.81(0.65-0.89)	
PCB-51 (C45)											
289.9224	23:11	23:12	2	1.143	43670	9455	78	195	121		
291.9194	23:10	23:12	1	1.143	53673	12001	118	295	102	0.81(0.65-0.89)	
PCB-46											
289.9224	23:26						78	195			
291.9194	23:26						118	295			
PCB-52											
289.9224	24:50	24:51	2	1.225	17862	4371	78	195	56		
291.9194	24:50	24:51	2	1.225	24280	6235	118	295	53	0.74(0.65-0.89)	
PCB-43											
289.9224	24:59						78	195			
291.9194	24:59						118	295			
PCB-73 (C43)											
289.9224	24:59						78	195			
291.9194	24:59						118	295			
PCB-49											
289.9224	25:19	25:17	5	1.249	11604	2274	78	195	29		
291.9194	25:17	25:17	3	1.247	14404	2706	118	295	23	0.81(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:19	25:17	5	1.249	11604	2274	78	195	29		
291.9194	25:17	25:17	3	1.247	14404	2706	118	295	23	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-48											RQ
289.9224	25:35	25:37	1	1.262	3949	926	78	195	12		
	Empc Correction				1146	601	78	195	8		
291.9194	25:35	25:37	1	1.262	1489	781	118	295	7	2.65(0.65-0.89)	
PCB-44											M
289.9224	25:51	25:51	2	1.275	76501	16433	78	195	211		
291.9194	25:51	25:51	2	1.275	98087	21261	118	295	180	0.78(0.65-0.89)	M
PCB-47 (C44)											M
289.9224	25:51	25:51	2	1.275	76501	16433	78	195	211		
291.9194	25:51	25:51	2	1.275	98087	21261	118	295	180	0.78(0.65-0.89)	M
PCB-65 (C44)											M
289.9224	25:51	25:51	2	1.275	76501	16433	78	195	211		
291.9194	25:51	25:51	2	1.275	98087	21261	118	295	180	0.78(0.65-0.89)	M
PCB-59											
289.9224	26:10						78	195			
291.9194	26:10						118	295			
PCB-62 (C59)											
289.9224	26:10						78	195			
291.9194	26:10						118	295			
PCB-75 (C59)											
289.9224	26:10						78	195			
291.9194	26:10						118	295			
PCB-42											
289.9224	26:22	26:22	2	1.300	4036	780	78	195	10		
291.9194	26:20	26:22	1	1.299	5070	1248	118	295	11	0.80(0.65-0.89)	
PCB-40											RQ
289.9224	26:50	26:52	1	1.324	6271	1533	78	195	20		
291.9194	26:50	26:52	1	1.324	12755	2213	118	295	19	0.49(0.65-0.89)	
	Empc Correction				8144	1990	118	295	17		
PCB-41 (C40)											RQ
289.9224	26:50	26:52	1	1.324	6271	1533	78	195	20		
291.9194	26:50	26:52	1	1.324	12755	2213	118	295	19	0.49(0.65-0.89)	
	Empc Correction				8144	1990	118	295	17		
PCB-71 (C40)											RQ
289.9224	26:50	26:52	1	1.324	6271	1533	78	195	20		
291.9194	26:50	26:52	1	1.324	12755	2213	118	295	19	0.49(0.65-0.89)	
	Empc Correction				8144	1990	118	295	17		
PCB-64											RQ
289.9224	27:02	27:05	0	1.334	4947	1467	78	195	19		
291.9194	27:04	27:05	2	1.335	9652	2125	118	295	18	0.51(0.65-0.89)	
	Empc Correction				6424	1905	118	295	16		
PCB-72											
289.9224	27:52						78	195			
291.9194	27:52						118	295			
PCB-68											M
289.9224	28:10	28:11	1	0.836	13519	3790	78	195	49		
291.9194	28:11	28:11	2	0.836	20928	4315	118	295	37	0.65(0.65-0.89)	M

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-57											
289.9224	28:35						78	195			
291.9194	28:35						118	295			
PCB-58											
289.9224	28:50						78	195			
291.9194	28:50						118	295			
PCB-67											
289.9224	28:59						78	195			
291.9194	28:59						118	295			
PCB-63											
289.9224	29:15						78	195			
291.9194	29:15						118	295			
PCB-61											
289.9224	29:36	29:36	2	0.879	19119	3324	78	195	43		
291.9194	29:36	29:36	2	0.879	24921	3489	118	295	30	0.77(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:36	29:36	2	0.879	19119	3324	78	195	43		
291.9194	29:36	29:36	2	0.879	24921	3489	118	295	30	0.77(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:36	29:36	2	0.879	19119	3324	78	195	43		
291.9194	29:36	29:36	2	0.879	24921	3489	118	295	30	0.77(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:36	29:36	2	0.879	19119	3324	78	195	43		
291.9194	29:36	29:36	2	0.879	24921	3489	118	295	30	0.77(0.65-0.89)	
PCB-66											
289.9224	29:54	29:56	0	0.887	6862	1791	78	195	23		RQM
291.9194	29:56	29:56	2	0.888	11738	2423	118	295	21	0.58(0.65-0.89)	M
	Empc Correction				8911	2325	118	295	20		
PCB-55											
289.9224	30:05						78	195			
291.9194	30:05						118	295			
PCB-56											
289.9224	30:36	30:37	2	0.908	3244	770	78	195	10		RQM
291.9194	30:37	30:37	2	0.909	6155	1033	118	295	9	0.53(0.65-0.89)	M
	Empc Correction				4212	1000	118	295	8		
PCB-60											
289.9224	30:48						78	195			
291.9194	30:48						118	295			
PCB-80											
289.9224	31:11						78	195			
291.9194	31:11						118	295			
PCB-79											
289.9224	32:44						78	195			
291.9194	32:44						118	295			
PCB-78											
289.9224	33:17						78	195			
291.9194	33:17						118	295			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81											
289.9224	33:43						78	195			
291.9194	33:43						118	295			
PCB-77											
289.9224	34:19	34:16	2	1.001	4482	942	78	195	12		
291.9194	34:18	34:16	1	1.001	5011	978	118	295	8	0.89(0.65-0.89)	
PCB-104L											
337.9207	25:44	25:44	1	0.814	812191	182463	293	732	623		
339.9178	25:44	25:44	1	0.814	509393	118758	191	477	622	1.59(1.32-1.78)	
PCB-95L											
337.9207	28:43	28:42	2	1.116	214370	45649	293	732	156		
339.9178	28:42	28:42	1	1.115	127136	28156	191	477	147	1.69(1.32-1.78)	
PCB-101L											
337.9207	31:38	31:37	1		776486	160471	293	732	548		
339.9178	31:38	31:37	1		475124	98403	191	477	515	1.63(1.32-1.78)	
PCB-111L											
337.9207	34:18	34:18	1	1.084	917013	185015	293	732	631		
339.9178	34:18	34:18	1	1.084	592876	121925	191	477	638	1.55(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:16	0	1.146	994653	204086	1074	2685	190		
339.9178	36:15	36:16	0	1.146	653438	130118	859	2147	151	1.52(1.32-1.78)	
PCB-118L											
337.9207	36:35	36:35	1	1.157	988976	196319	1074	2685	183		
339.9178	36:34	36:35	0	1.156	654987	129601	859	2147	151	1.51(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.173	981956	203569	1074	2685	190		
339.9178	37:07	37:06	1	1.173	639533	127659	859	2147	149	1.54(1.32-1.78)	
PCB-105L											
337.9207	37:46	37:47	0	1.194	972773	193179	1074	2685	180		
339.9178	37:45	37:47	0	1.194	655828	129465	859	2147	151	1.48(1.32-1.78)	
PCB-127L											
337.9207	39:14	39:13	0		1111827	214961	1074	2685	200		
339.9178	39:14	39:13	0		704429	134013	859	2147	156	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:51	0	1.291	964377	193049	1074	2685	180		
339.9178	40:51	40:51	0	1.291	609462	121856	859	2147	142	1.58(1.32-1.78)	
PCB-104											
325.8804	25:46						40	100			
327.8775	25:46						5	12			
PCB-96											
325.8804	26:09						40	100			
327.8775	26:09						5	12			
PCB-103											
325.8804	28:03						40	100			
327.8775	28:03						5	12			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-94											
325.8804	28:17						40	100			
327.8775	28:17						5	12			
PCB-95											
325.8804	28:44	28:44	1	1.116	11240	2319	40	100	58		RQ
	Empc Correction				7610	2236	40	100	56		
327.8775	28:44	28:44	2	1.117	4910	1443	5	12	289	2.29(1.32-1.78)	
PCB-93											
325.8804	28:56						40	100			
327.8775	28:56						5	12			
PCB-100 (C93)											
325.8804	28:56						40	100			
327.8775	28:56						5	12			
PCB-98											
325.8804	29:05	29:05	1	1.130	2176	506	40	100	13		RQ
	Empc Correction				1212	303	40	100	8		
327.8775	29:07	29:05	3	1.132	782	196	5	12	39	2.78(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:05	29:05	1	1.130	2176	506	40	100	13		RQ
	Empc Correction				1212	303	40	100	8		
327.8775	29:07	29:05	3	1.132	782	196	5	12	39	2.78(1.32-1.78)	
PCB-88											
325.8804	29:35	29:35	1	1.150	2062	431	40	100	11		RQ
327.8775	29:35	29:35	1	1.150	2390	754	5	12	151	0.86(1.32-1.78)	
	Empc Correction				1330	278	5	12	56		
PCB-91 (C88)											
325.8804	29:35	29:35	1	1.150	2062	431	40	100	11		RQ
327.8775	29:35	29:35	1	1.150	2390	754	5	12	151	0.86(1.32-1.78)	
	Empc Correction				1330	278	5	12	56		
PCB-84											
325.8804	29:48	29:50	-1	1.158	2819	740	40	100	19		RQ
	Empc Correction				2428	843	40	100	21		
327.8775	29:49	29:50	0	1.158	1567	544	5	12	109	1.80(1.32-1.78)	
PCB-89											
325.8804	30:18						40	100			
327.8775	30:18						5	12			
PCB-121											
325.8804	30:41						40	100			
327.8775	30:41						5	12			
PCB-92											
325.8804	31:03						40	100			
327.8775	31:03						5	12			
PCB-90											
325.8804	31:39	31:39	1	1.230	11485	2532	40	100	63		
327.8775	31:39	31:39	1	1.230	7120	1836	5	12	367	1.61(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:39	31:39	1	1.230	11485	2532	40	100	63		
327.8775	31:39	31:39	1	1.230	7120	1836	5	12	367	1.61(1.32-1.78)	

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3:53:39 PM

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-117 (C85)											RQ
325.8804	33:26	33:27	0	1.299	2746	823	40	100	21		
	Empc Correction				1501	389	40	100	10		
327.8775	33:26	33:27	0	1.299	969	251	5	12	50	2.83(1.32-1.78)	
PCB-110											RQ
325.8804	33:36	33:39	-2	1.306	7705	1459	40	100	36		
327.8775	33:38	33:39	0	1.307	6684	1397	5	12	279	1.15(1.32-1.78)	
	Empc Correction				4970	941	5	12	188		
PCB-115 (C110)											RQ
325.8804	33:36	33:39	-2	1.306	7705	1459	40	100	36		
327.8775	33:38	33:39	0	1.307	6684	1397	5	12	279	1.15(1.32-1.78)	
	Empc Correction				4970	941	5	12	188		
PCB-82											
325.8804	33:58						40	100			
327.8775	33:58						5	12			
PCB-111											
325.8804	34:20						40	100			
327.8775	34:20						5	12			
PCB-120											
325.8804	34:47						40	100			
327.8775	34:47						5	12			
PCB-108											
325.8804	35:56						137	342			
327.8775	35:56						159	397			
PCB-124 (C108)											
325.8804	35:56						137	342			
327.8775	35:56						159	397			
PCB-107											
325.8804	36:11						137	342			
327.8775	36:11						159	397			
PCB-123											
325.8804	36:16						137	342			
327.8775	36:16						159	397			
PCB-106											
325.8804	36:23						137	342			
327.8775	36:23						159	397			
PCB-118											
325.8804	36:37						137	342			
327.8775	36:37						159	397			
PCB-122											
325.8804	36:58						137	342			
327.8775	36:58						159	397			
PCB-114											
325.8804	37:08						137	342			
327.8775	37:08						159	397			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-105											
325.8804	37:47						137	342			
327.8775	37:47						159	397			
PCB-127											
325.8804	39:14						137	342			
327.8775	39:14						159	397			
PCB-126											
325.8804	40:52						137	342			
327.8775	40:52						159	397			
PCB-155L											
371.8817	31:23	31:23	1	0.790	665396	129720	89	222	1458		
373.8788	31:22	31:23	0	0.790	520834	107097	88	220	1217	1.28(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:26	1	0.901	316106	61803	96	240	644		
373.8788	38:27	38:26	1	0.901	245973	48007	251	627	191	1.29(1.05-1.43)	
PCB-138L											
371.8817	39:42	39:42	0		969229	187812	96	240	1956		
373.8788	39:42	39:42	0		739759	144134	251	627	574	1.31(1.05-1.43)	
PCB-167L											
371.8817	42:41	42:42	0	1.075	1014215	196297	96	240	2045		
373.8788	42:42	42:42	0	1.075	798139	154172	251	627	614	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:52	43:51	1	1.105	1987905	255902	96	240	2666		
373.8788	43:50	43:51	0	1.104	1588499	207865	251	627	828	1.25(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:52	43:51	1	1.105	1987905	255902	96	240	2666		
373.8788	43:50	43:51	0	1.104	1588499	207865	251	627	828	1.25(1.05-1.43)	
PCB-169L											
371.8817	47:04	47:04	0	1.186	995639	186876	96	240	1947		
373.8788	47:04	47:04	0	1.186	787357	142296	251	627	567	1.26(1.05-1.43)	
PCB-155											
359.8415	31:24						5	12			
361.8385	31:24						3	7			
PCB-152											
359.8415	31:38						5	12			
361.8385	31:38						3	7			
PCB-150											
359.8415	31:47						5	12			
361.8385	31:47						3	7			
PCB-136											
359.8415	32:08	32:10	-2	1.024	1661	324	5	12	65		
361.8385	32:08	32:10	-1	1.024	1233	462	3	7	154	1.35(1.05-1.43)	
PCB-145											
359.8415	32:27						5	12			
361.8385	32:27						3	7			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-148											
359.8415	33:56						5	12			
361.8385	33:56						3	7			
PCB-135											
359.8415	34:34	34:30	2	1.101	1645	345	5	12	69		RQM
	Empc Correction				673	157	5	12	31		
361.8385	34:30	34:30	-2	1.099	543	127	3	7	42	3.03(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:34	34:30	2	1.101	1645	345	5	12	69		RQM
	Empc Correction				673	157	5	12	31		
361.8385	34:30	34:30	-2	1.099	543	127	3	7	42	3.03(1.05-1.43)	M
PCB-154											
359.8415	34:47						5	12			
361.8385	34:47						3	7			
PCB-144											
359.8415	35:06						5	12			
361.8385	35:06						3	7			
PCB-147											
359.8415	35:27	35:29	0	1.130	4659	1020	9	22	113		RQ
	Empc Correction				3124	766	9	22	85		
361.8385	35:29	35:29	1	1.131	2520	618	10	25	62	1.85(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:29	0	1.130	4659	1020	9	22	113		RQ
	Empc Correction				3124	766	9	22	85		
361.8385	35:29	35:29	1	1.131	2520	618	10	25	62	1.85(1.05-1.43)	
PCB-134											
359.8415	35:42	35:42	-4	1.137	641	184	9	22	20		RQa
361.8385	35:42	35:42	-4	1.138	881	197	10	25	20	0.73(1.05-1.43)	a
	Empc Correction				516	148	10	25	15		
PCB-143 (C134)											
359.8415	35:42	35:42	-4	1.137	641	184	9	22	20		RQa
361.8385	35:42	35:42	-4	1.138	881	197	10	25	20	0.73(1.05-1.43)	a
	Empc Correction				516	148	10	25	15		
PCB-139											
359.8415	36:05	36:03	3	1.150	802	269	9	22	30		RQ
	Empc Correction				510	133	9	22	15		
361.8385	36:01	36:03	-1	1.148	412	108	10	25	11	1.95(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:05	36:03	3	1.150	802	269	9	22	30		RQ
	Empc Correction				510	133	9	22	15		
361.8385	36:01	36:03	-1	1.148	412	108	10	25	11	1.95(1.05-1.43)	
PCB-131											
359.8415	36:18	36:18	2	1.157	338	104	9	22	12		RQM
	Empc Correction				174	60	9	22	7		M
361.8385	36:15	36:18	-1	1.155	141	49	10	25	5	2.40(1.05-1.43)	
PCB-142											
359.8415	36:25						9	22			
361.8385	36:25						10	25			

Signal	RT (min.)	Adj RT (min.)	⌊ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-132											RQ
359.8415	36:45	36:44	1	1.171	2640	671	9	22	75	4.17(1.05-1.43)	
Empc Correction					784	271	9	22	30		
361.8385	36:43	36:44	0	1.170	633	219	10	25	22		
PCB-133											RQ
359.8415	37:13	37:14	0	1.186	357	132	9	22	15	0.99(1.05-1.43)	
361.8385	37:13	37:14	0	1.186	362	205	10	25	21		
Empc Correction					287	106	10	25	11		
PCB-165											
359.8415	37:36						9	22			
361.8385	37:36						10	25			
PCB-146											
359.8415	37:51						9	22			
361.8385	37:51						10	25			
PCB-161											RQ
359.8415	37:58	37:59	-1	0.889	640	187	9	22	21	4.64(1.05-1.43)	
Empc Correction					171	88	9	22	10		
361.8385	37:59	37:59	0	0.890	138	71	10	25	7		
PCB-153											RQM M
359.8415	38:30	38:30	1	0.902	3124	749	9	22	83	1.50(1.05-1.43)	
Empc Correction					2579	597	9	22	66		
361.8385	38:26	38:30	-3	0.901	2080	482	10	25	48		
PCB-168 (C153)											RQM M
359.8415	38:30	38:30	1	0.902	3124	749	9	22	83	1.50(1.05-1.43)	
Empc Correction					2579	597	9	22	66		
361.8385	38:26	38:30	-3	0.901	2080	482	10	25	48		
PCB-141											RQM M
359.8415	38:43	38:43	3	0.907	516	143	9	22	16	0.72(1.05-1.43)	
361.8385	38:39	38:43	-1	0.905	718	236	10	25	24		
Empc Correction					416	115	10	25	12		
PCB-130											
359.8415	39:04						9	22			
361.8385	39:04						10	25			
PCB-137											
359.8415	39:17						9	22			
361.8385	39:17						10	25			
PCB-164											
359.8415	39:25						9	22			
361.8385	39:25						10	25			
PCB-129											RQM M
359.8415	39:45	39:45	2	0.931	1393	345	9	22	38	0.63(1.05-1.43)	
361.8385	39:44	39:45	0	0.931	2221	851	10	25	85		
Empc Correction					1123	278	10	25	28		
PCB-138 (C129)											RQM M
359.8415	39:45	39:45	2	0.931	1393	345	9	22	38	0.63(1.05-1.43)	
361.8385	39:44	39:45	0	0.931	2221	851	10	25	85		
Empc Correction					1123	278	10	25	28		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-160 (C129)											RQM
359.8415	39:45	39:45	2	0.931	1393	345	9	22	38		M
361.8385	39:44	39:45	0	0.931	2221	851	10	25	85	0.63(1.05-1.43)	
Empc Correction					1123	278	10	25	28		
PCB-163 (C129)											RQM
359.8415	39:45	39:45	2	0.931	1393	345	9	22	38		M
361.8385	39:44	39:45	0	0.931	2221	851	10	25	85	0.63(1.05-1.43)	
Empc Correction					1123	278	10	25	28		
PCB-158											
359.8415	40:06						9	22			
361.8385	40:06						10	25			
PCB-128											
359.8415	40:55	40:57	-3	0.958	497	163	9	22	18		
361.8385	40:57	40:57	0	0.959	409	171	10	25	17	1.22(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:55	40:57	-3	0.958	497	163	9	22	18		
361.8385	40:57	40:57	0	0.959	409	171	10	25	17	1.22(1.05-1.43)	
PCB-159											
359.8415	41:57						9	22			
361.8385	41:57						10	25			
PCB-162											
359.8415	42:14						9	22			
361.8385	42:14						10	25			
PCB-167											
359.8415	42:42						9	22			
361.8385	42:42						10	25			
PCB-156											RQ
359.8415	43:55	43:53	3	1.001	323	104	9	22	12		
Empc Correction					198	79	9	22	9		
361.8385	43:54	43:53	2	1.001	160	64	10	25	6	2.02(1.05-1.43)	
PCB-157 (C156)											RQ
359.8415	43:55	43:53	3	1.001	323	104	9	22	12		
Empc Correction					198	79	9	22	9		
361.8385	43:54	43:53	2	1.001	160	64	10	25	6	2.02(1.05-1.43)	
PCB-169											
359.8415	47:06						9	22			
361.8385	47:06						10	25			
PCB-188L											
405.8428	37:06	37:05	0	0.820	780630	152533	85	212	1795		
407.8398	37:05	37:05	0	0.820	714202	149618	52	130	2877	1.09(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:08	1	0.888	608138	118844	85	212	1398		
407.8398	40:09	40:08	0	0.888	545512	103037	52	130	1981	1.11(0.89-1.21)	
PCB-180L											
405.8428	45:13	45:14	0		668949	125026	85	212	1471		
407.8398	45:13	45:14	0		622102	124840	52	130	2401	1.08(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-170L											
405.8428	46:29	46:29	0	1.028	505892	97218	85	212	1144		
407.8398	46:29	46:29	0	1.028	478036	93383	52	130	1796	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:35	49:35	0	1.096	717683	135955	1164	2910	117		
407.8398	49:35	49:35	0	1.096	705731	130319	1200	3000	109	1.02(0.89-1.21)	
PCB-188											
393.8025	37:08						7	17			
395.7995	37:08						6	15			
PCB-179											
393.8025	37:27	37:28	0	1.010	557	112	7	17	16		RQ
	Empc Correction				278	106	7	17	15		
395.7995	37:26	37:28	-1	1.009	265	101	6	15	17	2.10(0.89-1.21)	
PCB-184											
393.8025	37:59	37:59	0	1.024	358	131	7	17	19		RQ
	Empc Correction				207	108	7	17	15		
395.7995	37:59	37:59	0	1.024	198	103	6	15	17	1.81(0.89-1.21)	
PCB-176											
393.8025	38:21						7	17			
395.7995	38:21						6	15			
PCB-186											
393.8025	38:48						7	17			
395.7995	38:48						6	15			
PCB-178											
393.8025	40:10						7	17			
395.7995	40:10						6	15			
PCB-175											
393.8025	40:48						7	17			
395.7995	40:48						6	15			
PCB-187											
393.8025	41:05	41:05	0	1.107	654	366	7	17	52		RQ
	Empc Correction				335	185	7	17	26		
395.7995	41:03	41:05	-1	1.107	320	177	6	15	30	2.04(0.89-1.21)	
PCB-182											
393.8025	41:18	41:16	2	1.113	95	40	7	17	6		RQM
395.7995	41:16	41:16	0	1.112	399	156	6	15	26	0.24(0.89-1.21)	M
	Empc Correction				90	38	6	15	6		
PCB-183											
393.8025	41:39	41:41	-1	1.123	289	100	7	17	14		RQ
395.7995	41:43	41:41	3	1.125	472	186	6	15	31	0.61(0.89-1.21)	
	Empc Correction				275	95	6	15	16		
PCB-185 (C183)											
393.8025	41:39	41:41	-1	1.123	289	100	7	17	14		RQ
395.7995	41:43	41:41	3	1.125	472	186	6	15	31	0.61(0.89-1.21)	
	Empc Correction				275	95	6	15	16		
PCB-174											
393.8025	41:58	41:56	2	1.131	380	138	7	17	20		RQ
	Empc Correction				186	96	7	17	14		
395.7995	41:58	41:56	3	1.131	178	92	6	15	15	2.13(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-177											
393.8025	42:22						7	17			
395.7995	42:22						6	15			
PCB-181											
393.8025	42:45						7	17			
395.7995	42:45						6	15			
PCB-171											
393.8025	42:58						7	17			
395.7995	42:58						6	15			
PCB-173 (C171)											
393.8025	42:58						7	17			
395.7995	42:58						6	15			
PCB-172											
393.8025	44:35						7	17			
395.7995	44:35						6	15			
PCB-192											
393.8025	44:52						7	17			
395.7995	44:52						6	15			
PCB-180											
393.8025	45:11	45:12	-2	0.911	579	209	7	17	30		RQ
	Empc Correction				166	93	7	17	13		
395.7995	45:12	45:12	0	0.912	159	89	6	15	15	3.64(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:11	45:12	-2	0.911	579	209	7	17	30		RQ
	Empc Correction				166	93	7	17	13		
395.7995	45:12	45:12	0	0.912	159	89	6	15	15	3.64(0.89-1.21)	
PCB-191											
393.8025	45:36						7	17			
395.7995	45:36						6	15			
PCB-170											
393.8025	46:30						7	17			
395.7995	46:30						6	15			
PCB-190											
393.8025	47:01						7	17			
395.7995	47:01						6	15			
PCB-189											
393.8025	49:36						42	105			
395.7995	49:36						25	62			
PCB-202L											
439.8038	42:28	42:27	0	0.821	528397	101821	90	225	1131		
441.8008	42:28	42:27	0	0.821	559384	113557	58	145	1958	0.94(0.76-1.02)	
PCB-194L											
439.8038	51:41	51:42	0		742906	145689	945	2362	154		
441.8008	51:41	51:42	0		833141	158134	1059	2647	149	0.89(0.76-1.02)	
PCB-205L											
439.8038	52:10	52:10	0	1.009	770168	141026	945	2362	149		
441.8008	52:10	52:10	0	1.009	887958	160575	1059	2647	152	0.87(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-202											
427.7635	42:29						9	22			
429.7606	42:29						7	17			
PCB-201											
427.7635	43:24						9	22			
429.7606	43:24						7	17			
PCB-204											
427.7635	44:04						9	22			
429.7606	44:04						7	17			
PCB-197											
427.7635	44:18						9	22			
429.7606	44:18						7	17			
PCB-200											
427.7635	44:26	44:25	1	1.046	295	99	9	22	11		
429.7606	44:24	44:25	0	1.046	299	110	7	17	16	0.99(0.76-1.02)	
PCB-198											
427.7635	47:11						9	22			
429.7606	47:11						7	17			
PCB-199 (C198)											
427.7635	47:11						9	22			
429.7606	47:11						7	17			
PCB-196											
427.7635	47:51						9	22			
429.7606	47:51						7	17			
PCB-203											
427.7635	48:03						9	22			
429.7606	48:03						7	17			
PCB-195											
427.7635	49:22						2	5			
429.7606	49:22						10	25			
PCB-194											
427.7635	51:43						2	5			
429.7606	51:43						10	25			
PCB-205											
427.7635	52:10						2	5			
429.7606	52:10						10	25			
PCB-208L											
473.7648	49:06	49:06	0	0.950	699993	128759	207	517	622		
475.7619	49:06	49:06	0	0.950	886495	173219	280	700	619	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:54	53:54	0	1.043	495301	92086	207	517	445		
475.7619	53:54	53:54	0	1.043	622779	120088	280	700	429	0.80(0.65-0.89)	
PCB-208											
461.7246	49:08						224	560			
463.7216	49:08						233	582			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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## PCB-207

461.7246	50:03						224	560			
463.7216	50:03						233	582			

## PCB-206

461.7246	53:56						224	560			
463.7216	53:56						233	582			

## PCB-209L

507.7258	55:31	55:31	0	1.074	452610	86127	96	240	897		
509.7229	55:31	55:31	0	1.074	636320	110140	126	315	874	0.71(0.59-0.79)	

## DCB Decachlorobiphenyl

495.6856	55:33						24	60			
497.6826	55:33						12	30			

## QC Flag Legend

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

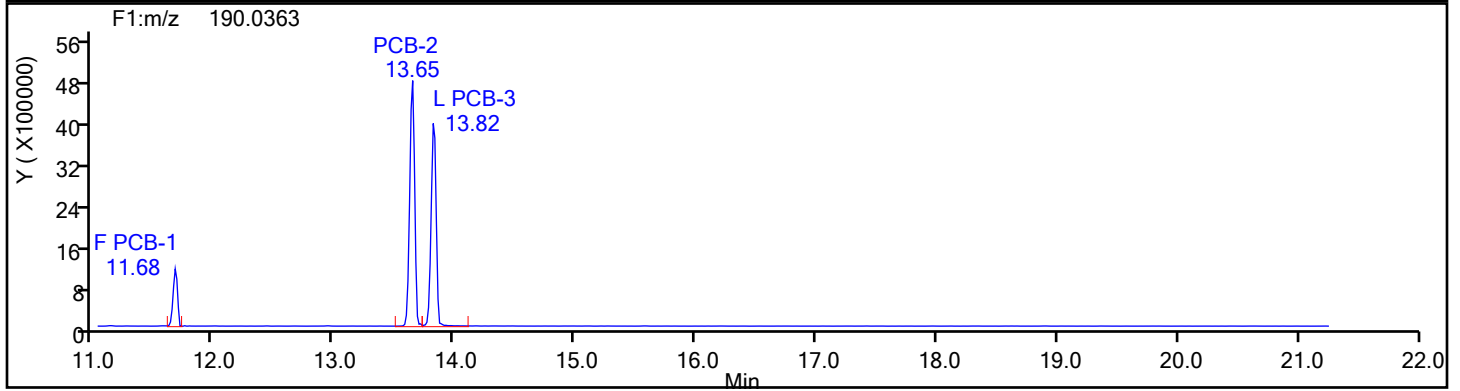
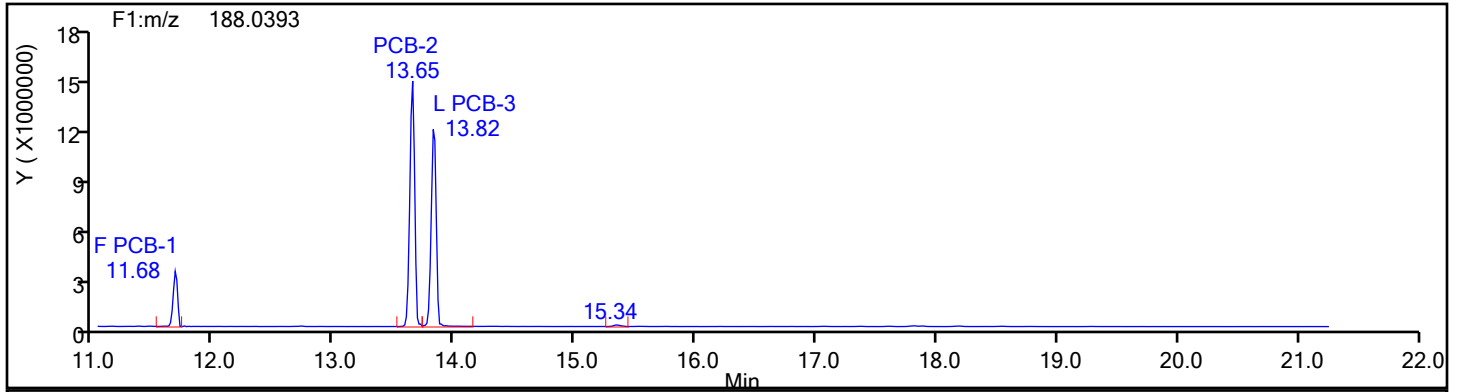
M - Manually Integrated

a - User Assigned ID

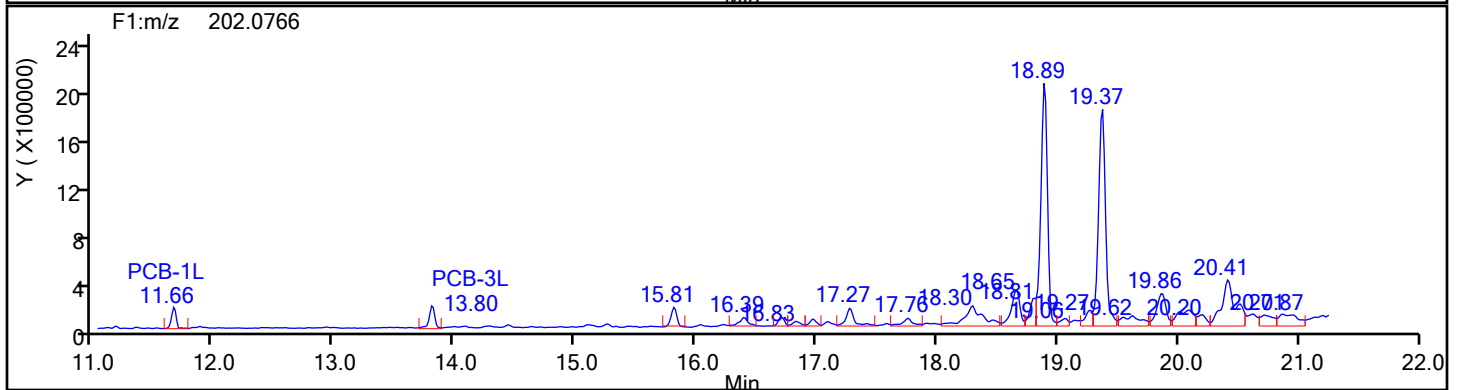
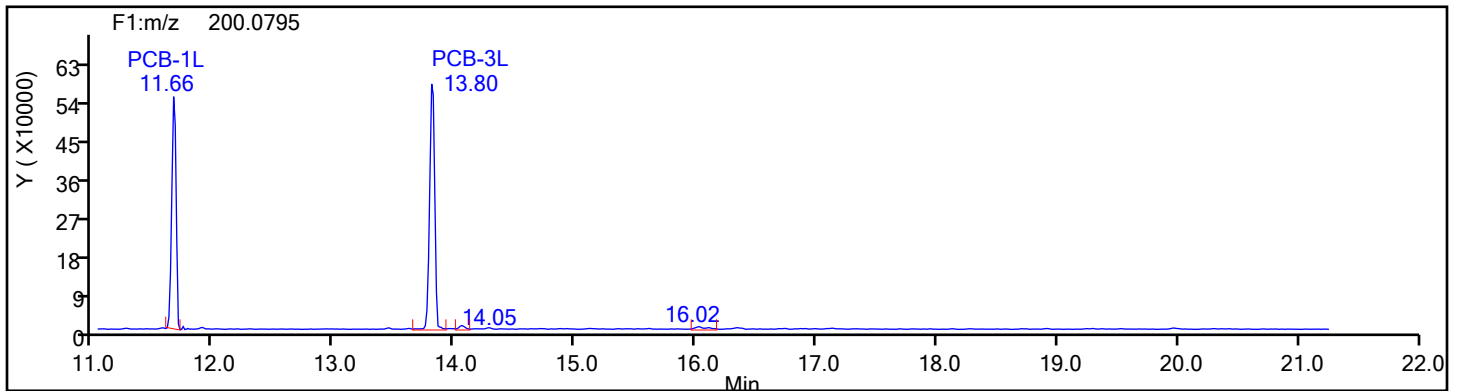


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

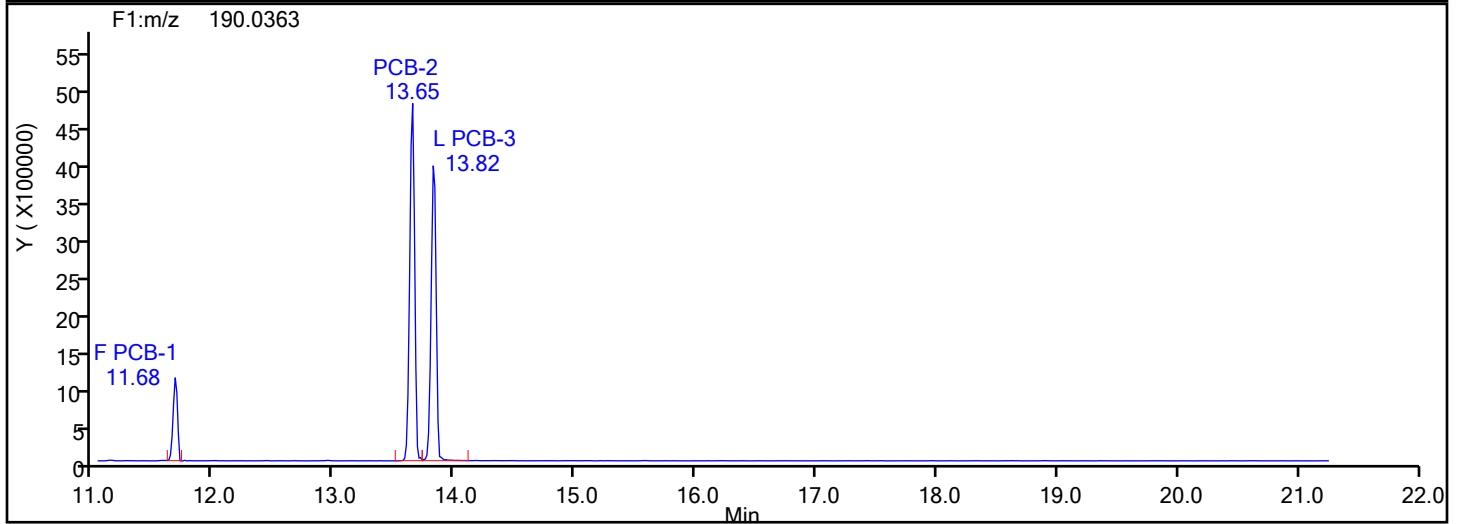
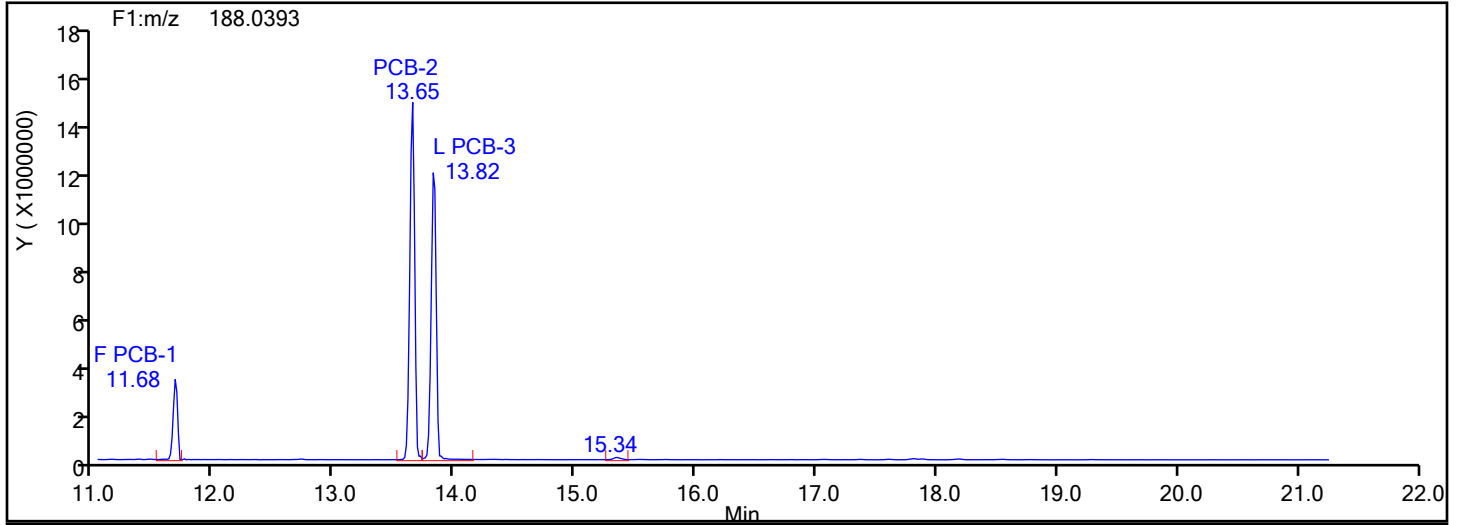


## MoPCB F1 Standards

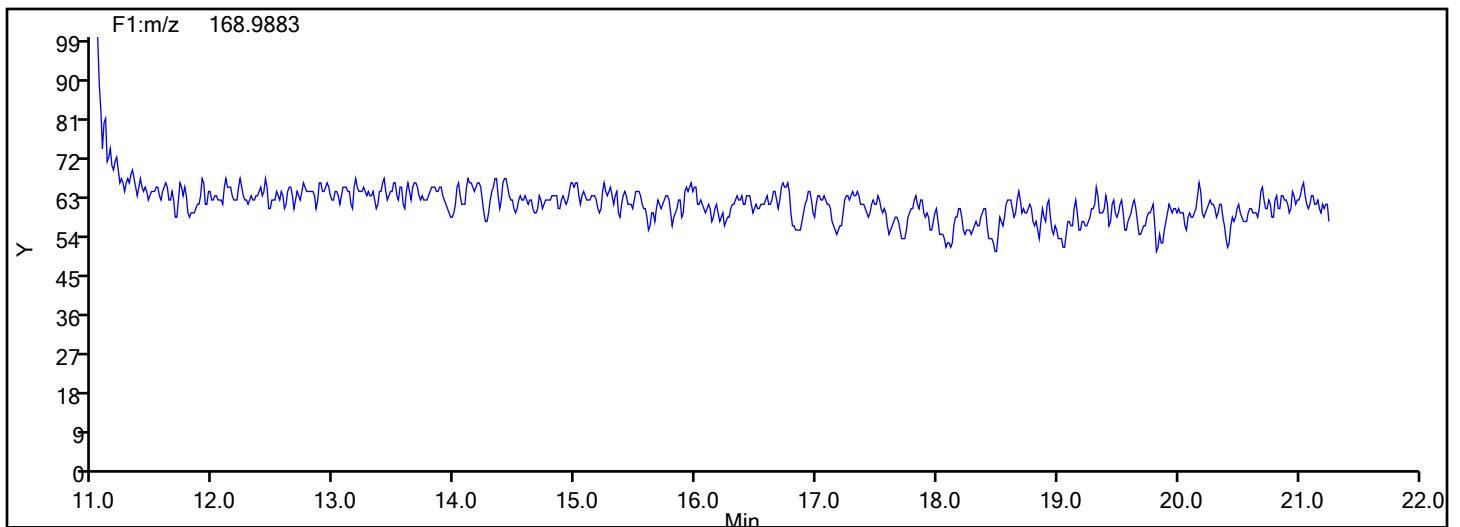


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1\IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

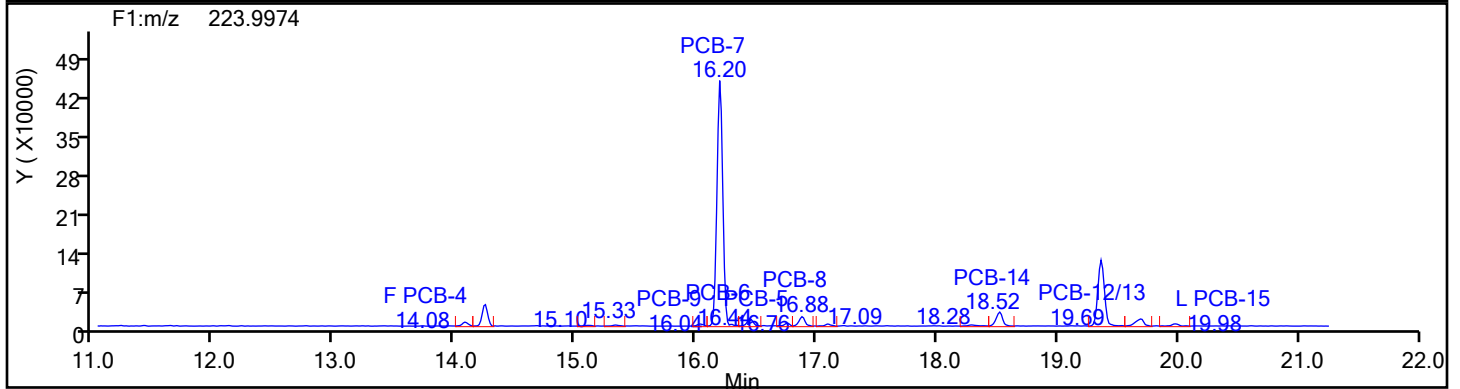
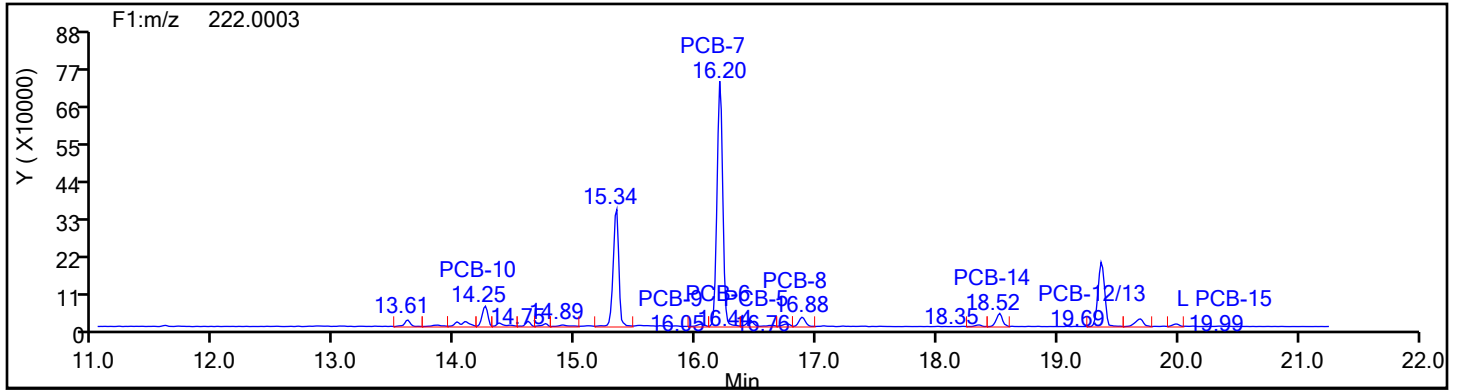


## MoPCB F1 Lock Mass

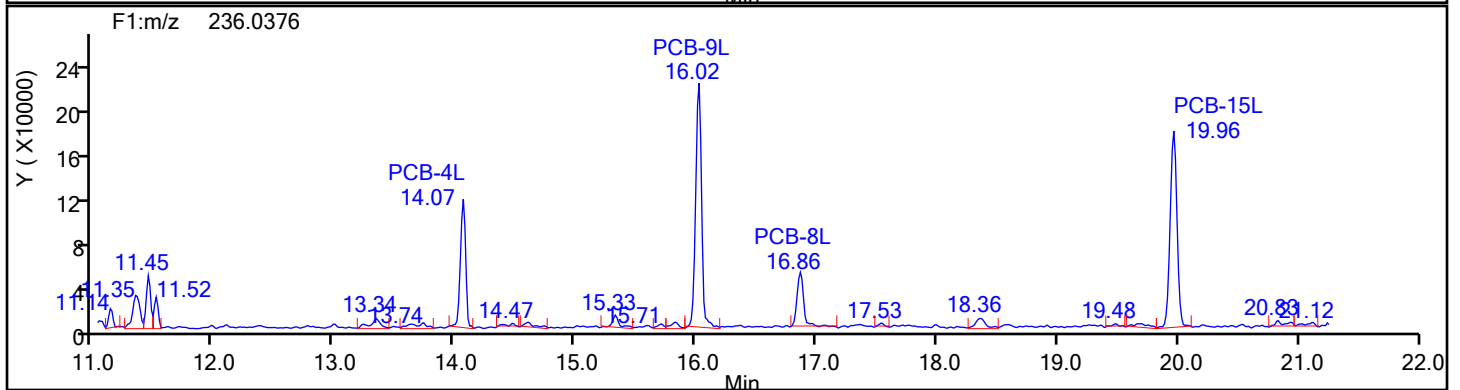
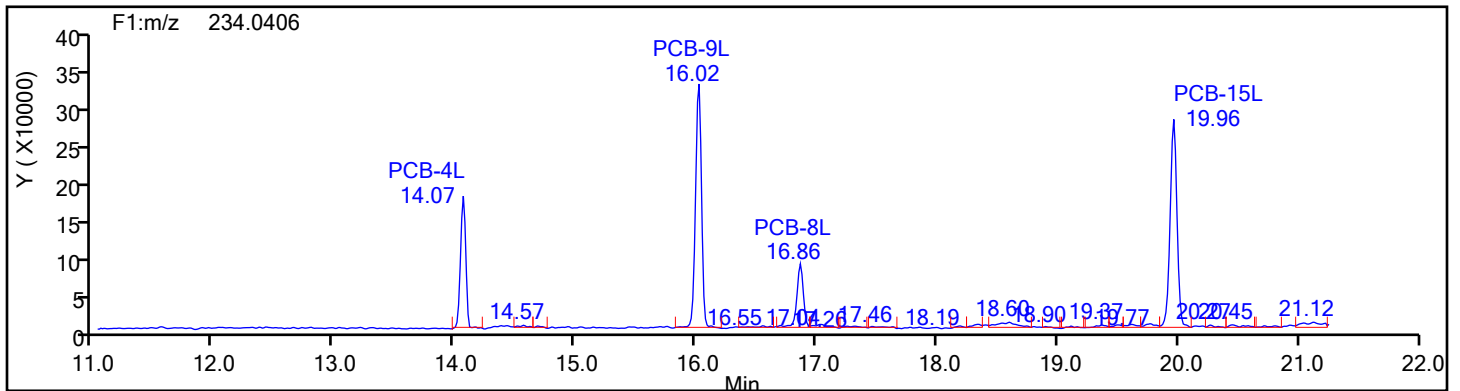


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1

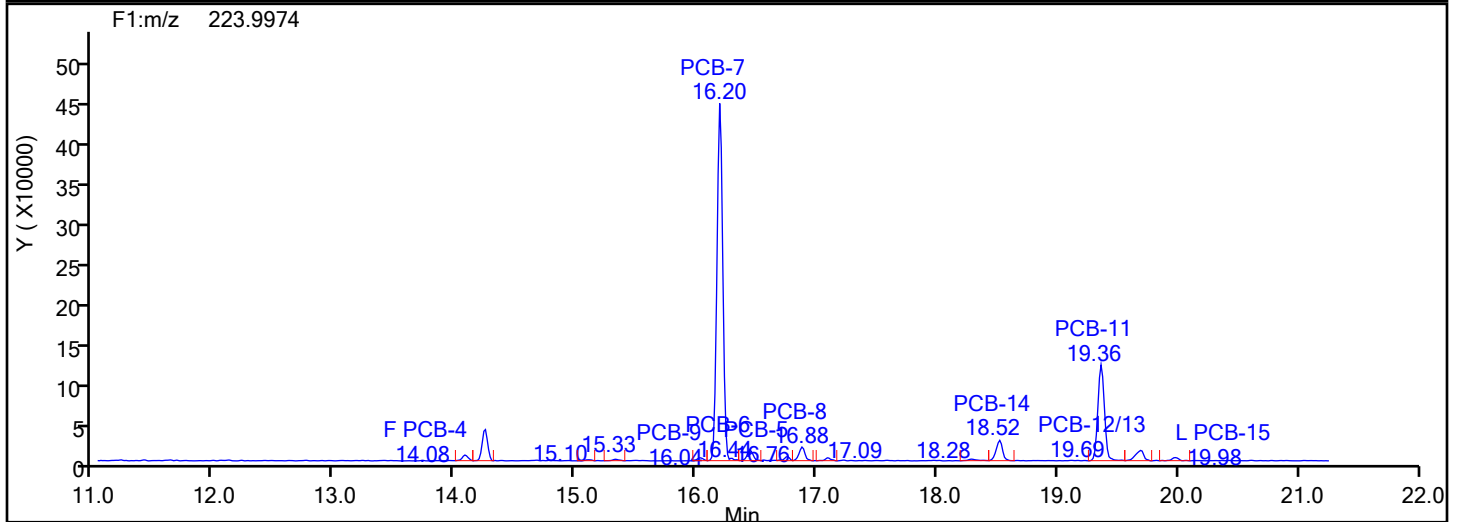
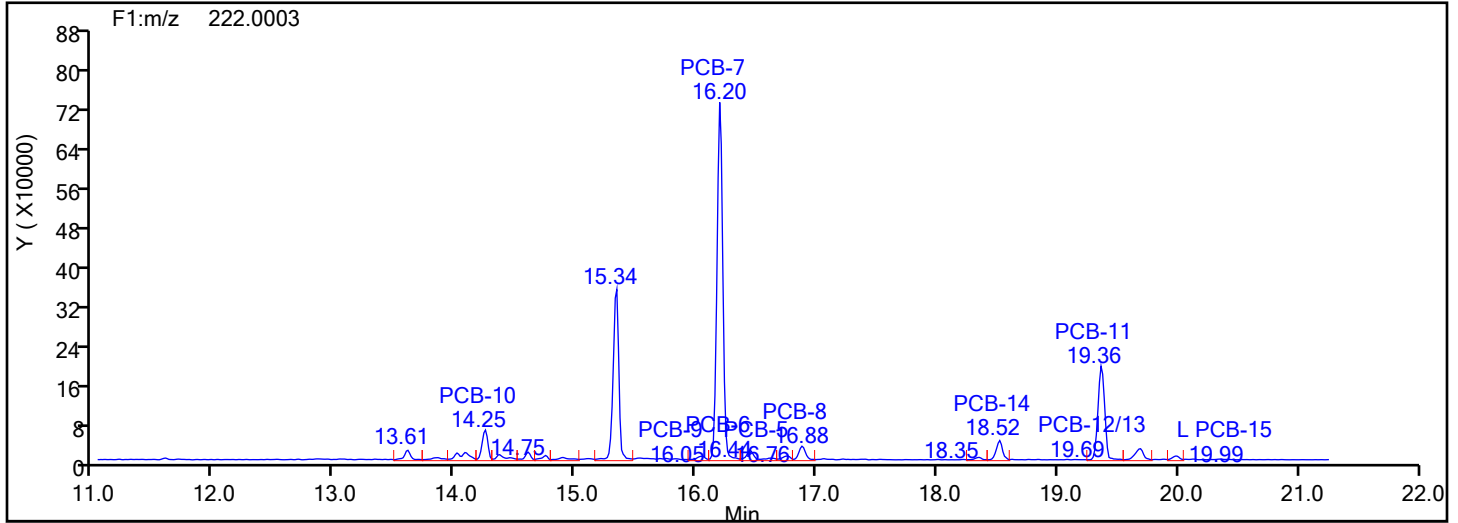


## DiPCB F1 Standards

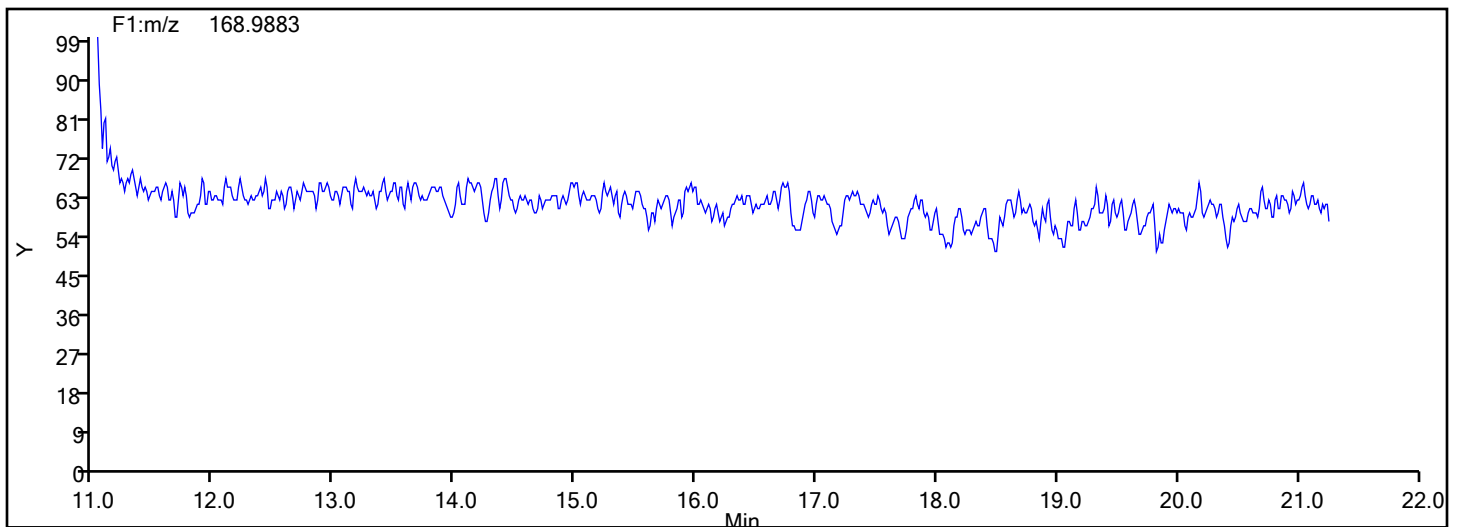


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



## DiPCB F1 Lock Mass



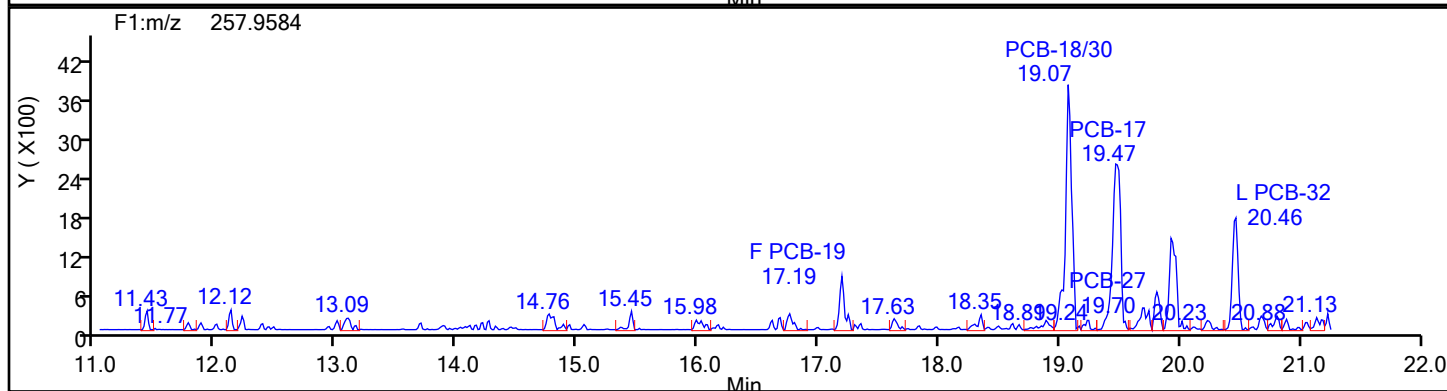
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Injection Date:	28-Jun-2024 13:48:00	Instrument ID:	D2D		
Lims ID:	140-36940-A-3-C	Lab Sample ID:	140-36940-3		
Client ID:	M23 - EPN 4-1\IN-701-RUN 3-COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl ( 0.25 mm)	Detector	F1(11.07 :21.70 )		

Signal: 1

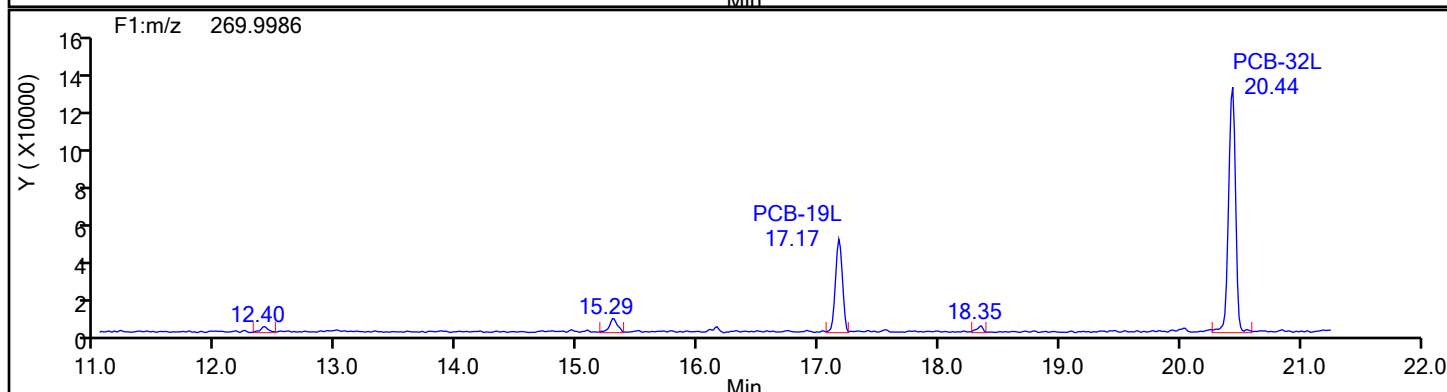
Chromatogram showing a major peak at 16.878 minutes. The y-axis is labeled 'Y (X1000)' and ranges from 0 to 28. The x-axis is labeled 'Min' and ranges from 16.5 to 17.3. A red box highlights the peak area, which is filled with a blue dotted pattern. The peak is labeled '16.878' and '222.0003'.

Chromatogram showing a major peak at 16.878 minutes. The y-axis is labeled 'Y (X1000)' and ranges from 0 to 28. The x-axis is labeled 'Min' and ranges from 16.5 to 17.3. A green vertical line marks the peak at 16.878 minutes. A red horizontal line indicates the baseline. A green bracket below the x-axis is labeled 'RT'.

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d		
Injection Date:	28-Jun-2024 13:48:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 - EPN 4-1\IN-701-RUN 3-COMBINED		
Worklist#:	88219	Sample Line#:	7
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TriPCB F1			

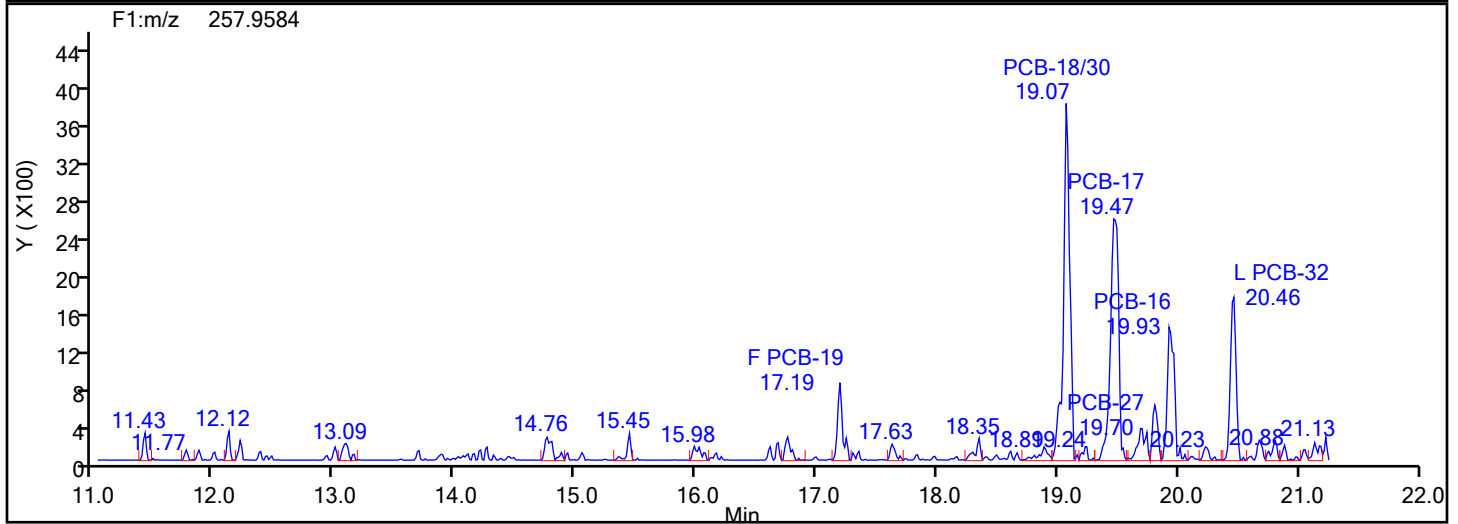
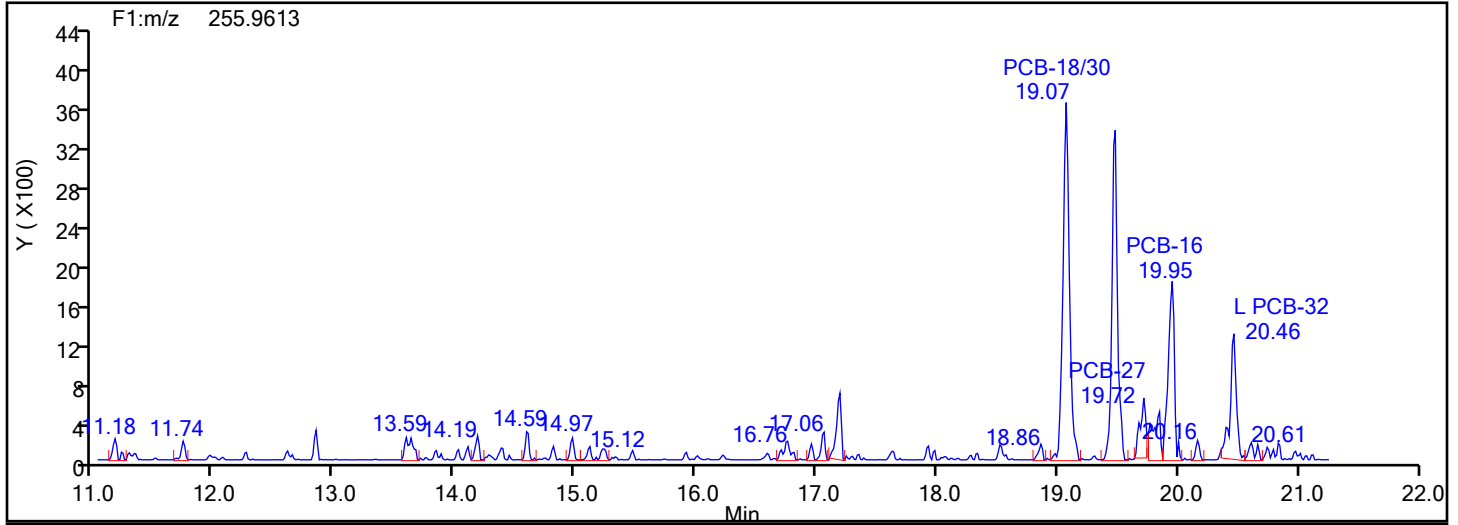


TriPCB F1 Standards

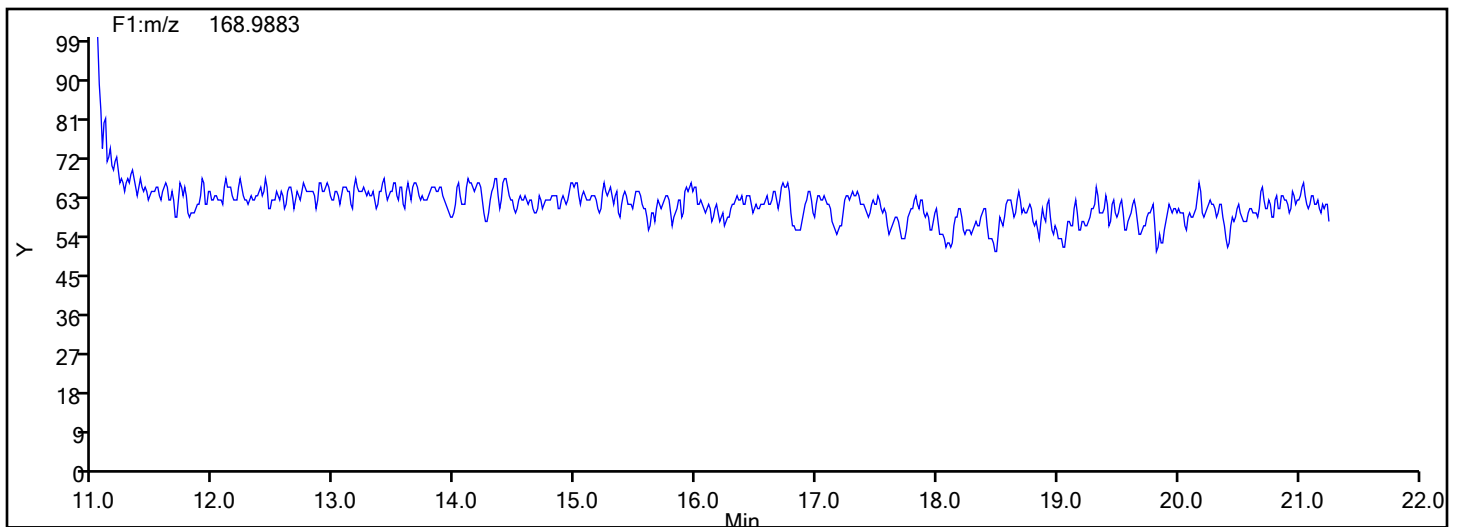


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Lock Mass



## Eurofins Knoxville

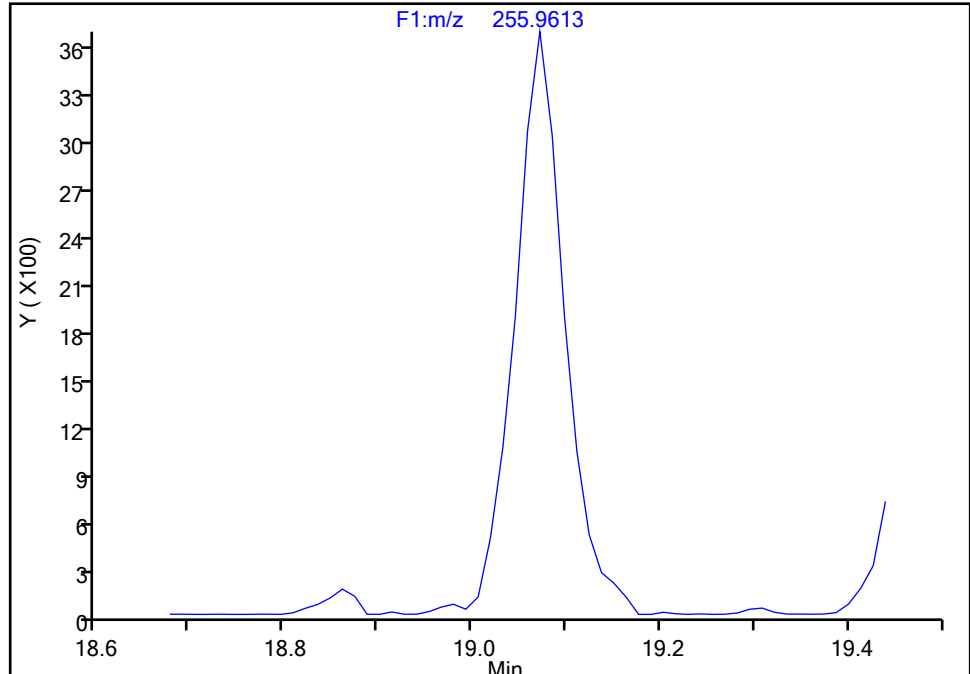
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Injection Date: 28-Jun-2024 13:48:00 Instrument ID: D2D  
Lims ID: 140-36940-A-3-C Lab Sample ID: 140-36940-3  
Client ID: M23 - EPN 4-1\IN-701-RUN 3-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

**PCB-18/30, CAS: STL01798**

Signal: 1

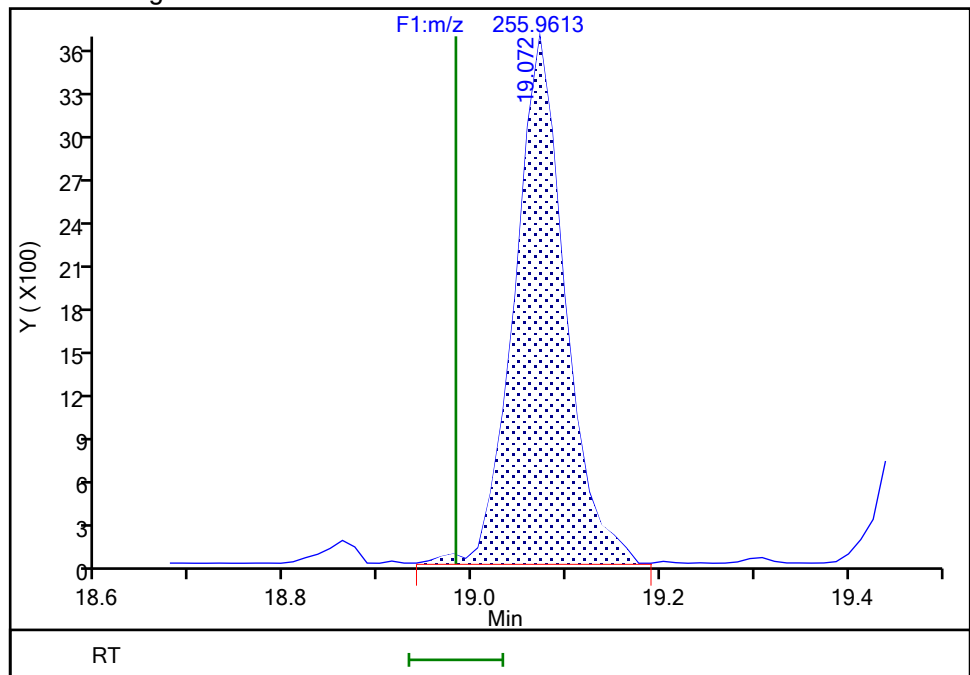
Not Detected  
Expected RT: 18.98

## Processing Integration Results



RT: 19.07  
Area: 13499  
Amount: 0.757887  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 14:55:27 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration



## Eurofins Knoxville

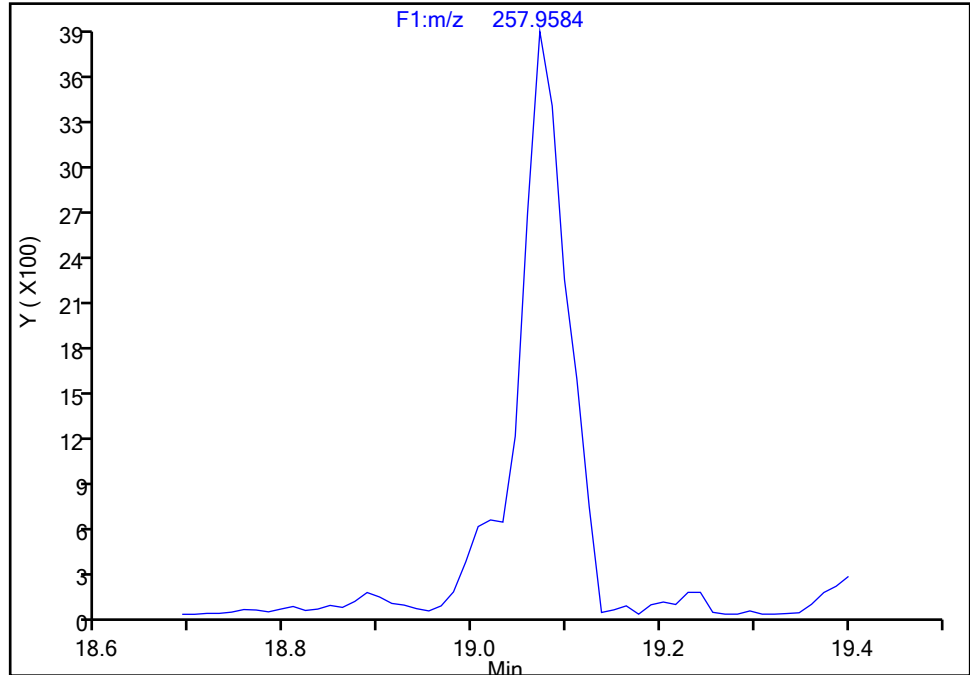
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Lims ID: 140-36940-A-3-C Lab Sample ID: 140-36940-3  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F1(11.07 :21.70 )

**PCB-18/30, CAS: STL01798**

Signal: 2

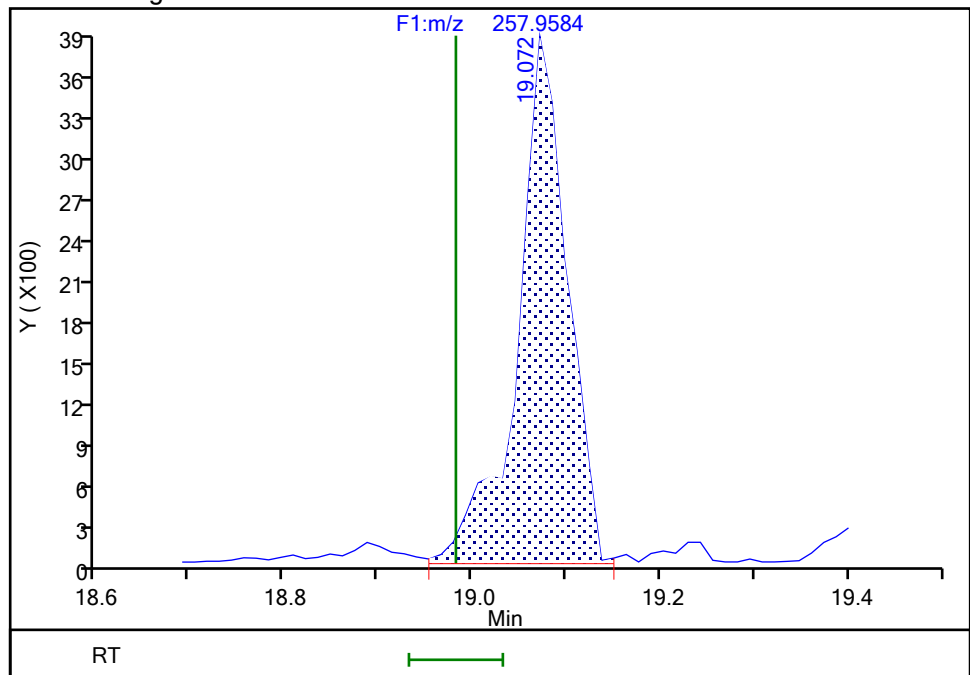
Not Detected  
Expected RT: 18.98

## Processing Integration Results



RT: 19.07  
Area: 14016  
Amount: 0.757887  
Amount Units: pg/ul

## Manual Integration Results



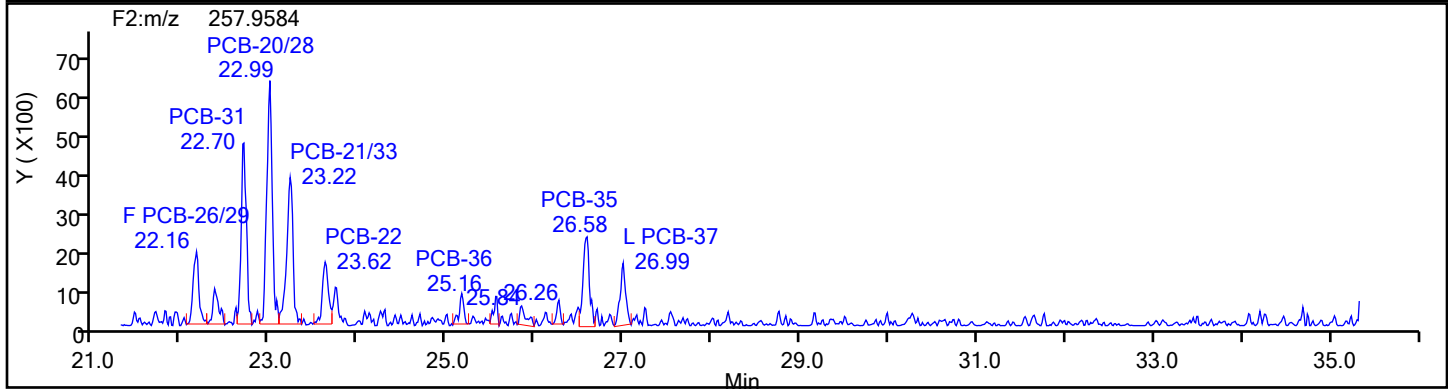
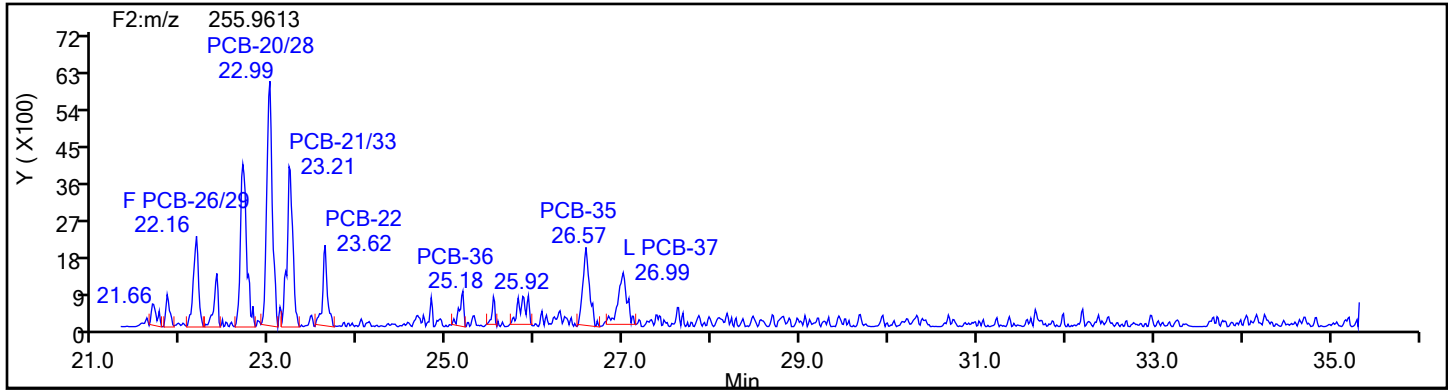
Reviewer: P0IK, 28-Jun-2024 14:55:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

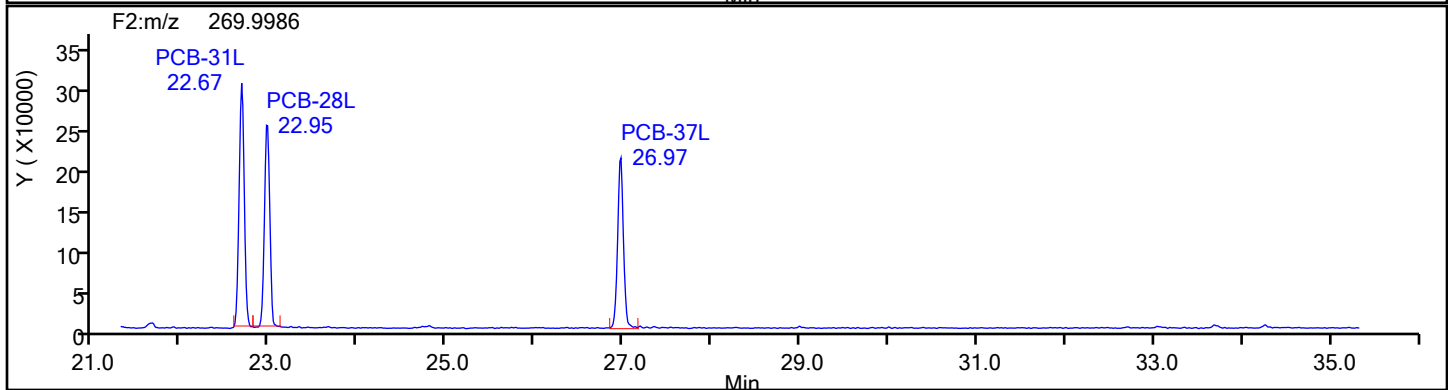
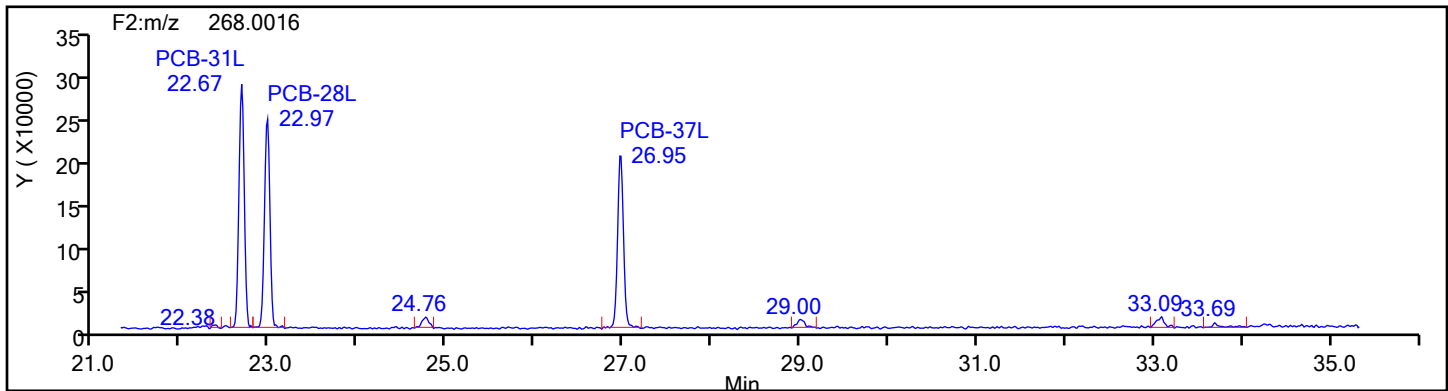
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

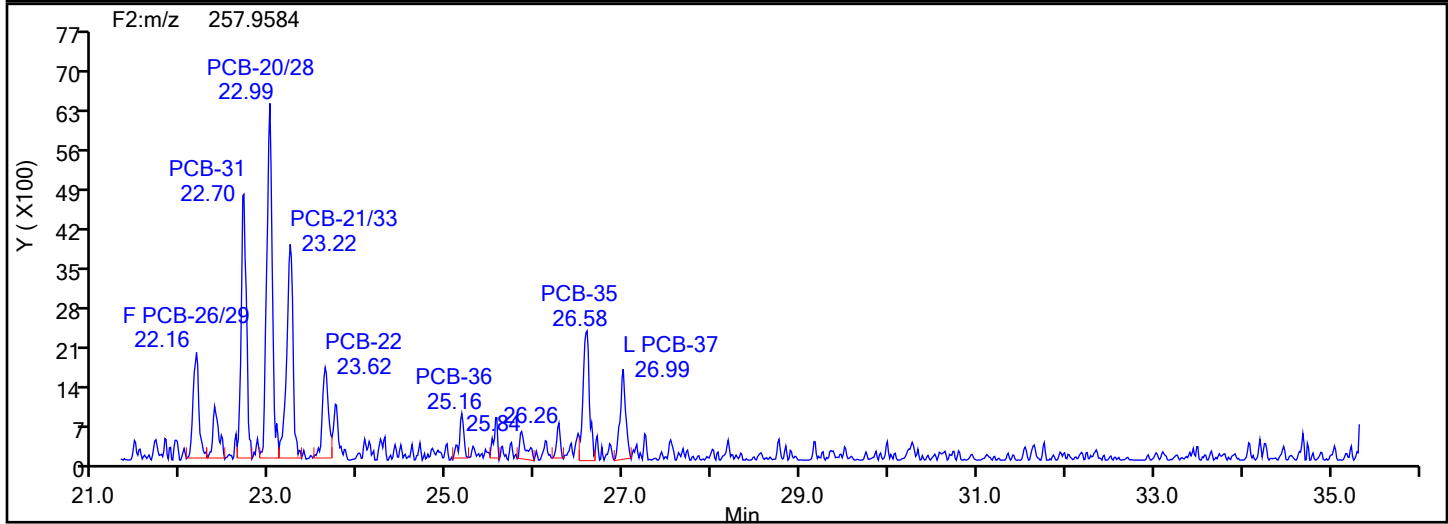
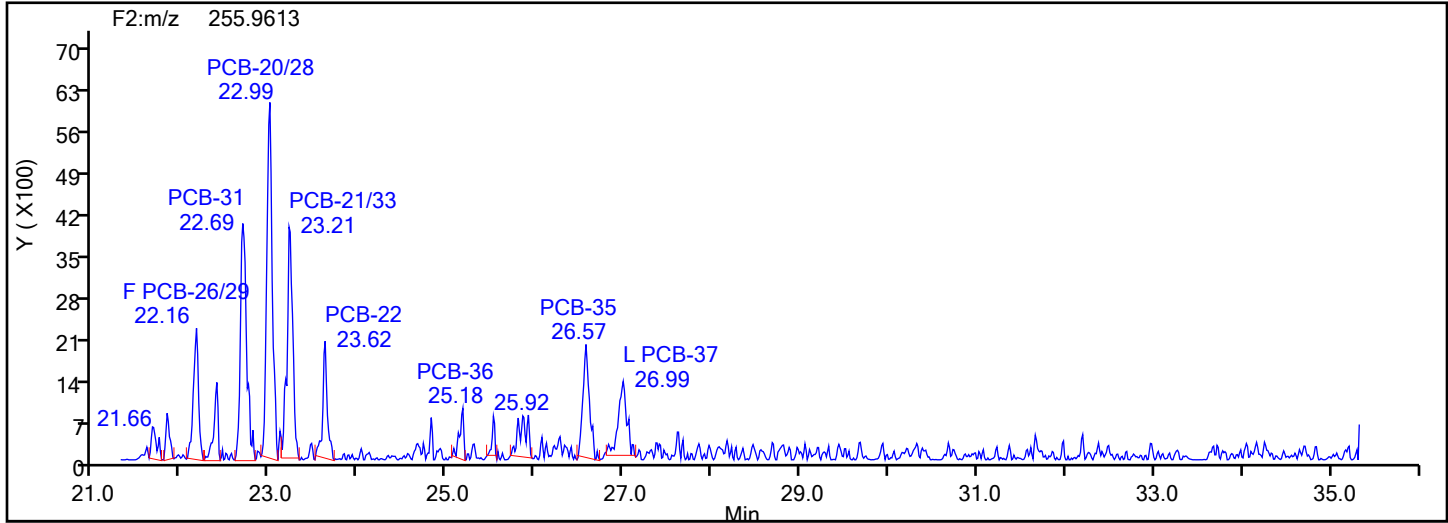


## TriPCB F2 Standards

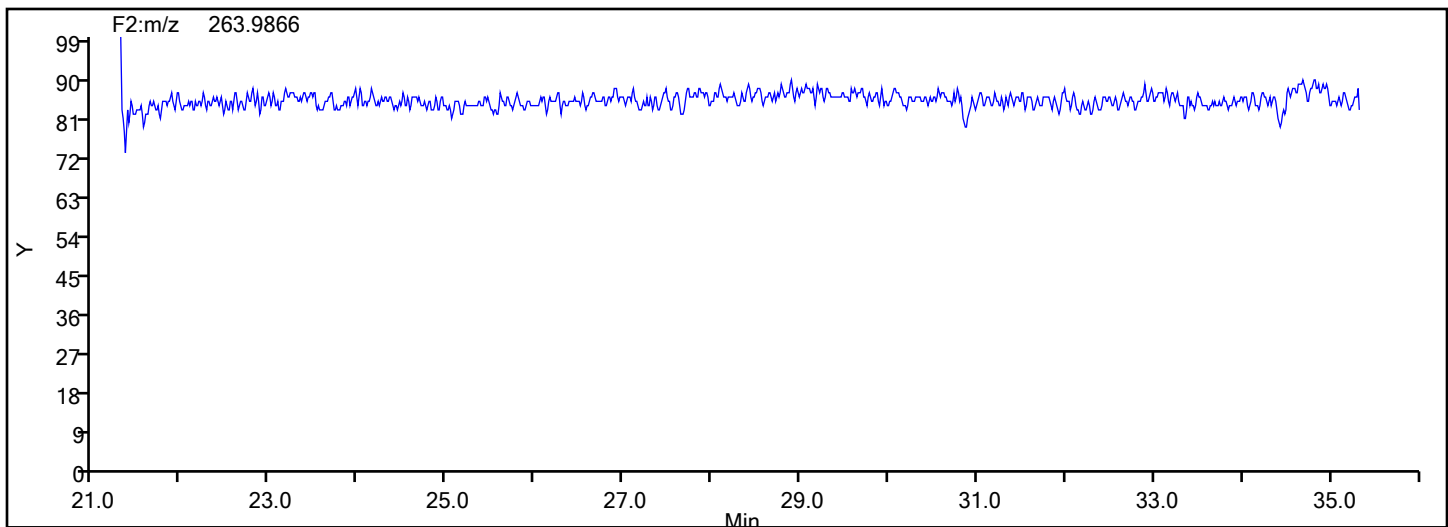


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2



## TriPCB F2 Lock Mass



Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d

Injection Date: 28-Jun-2024 13:48:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED

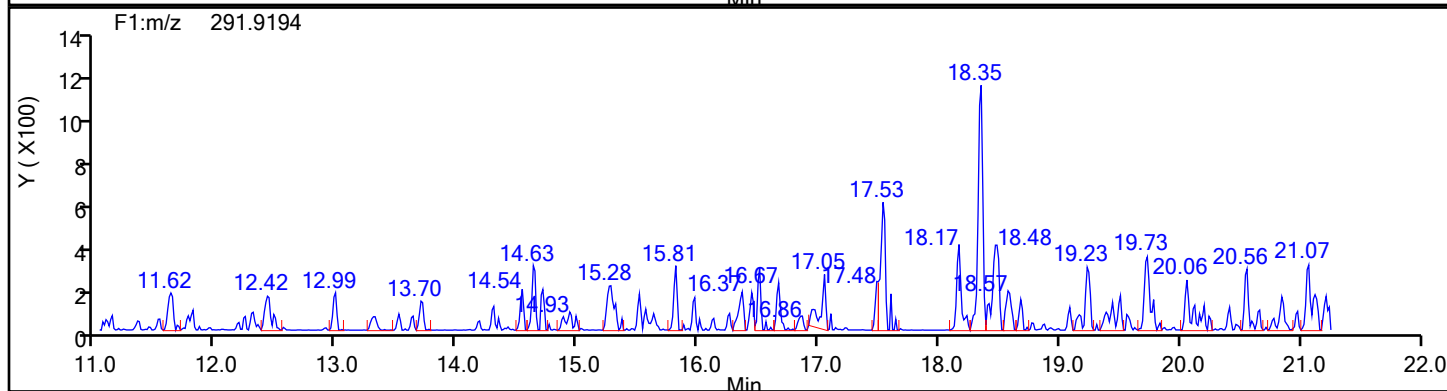
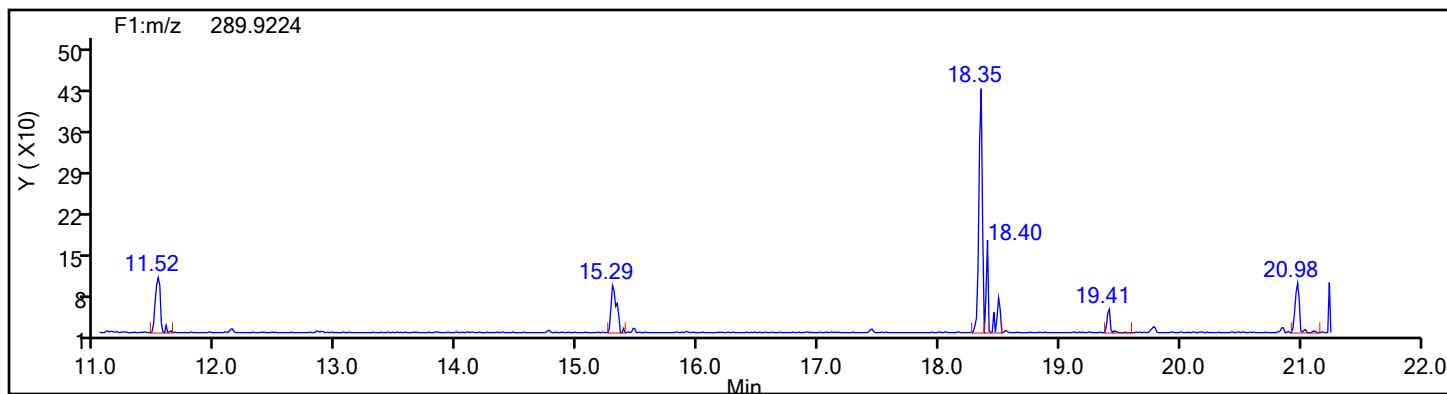
Worklist#: 88219

Sample Line#: 7

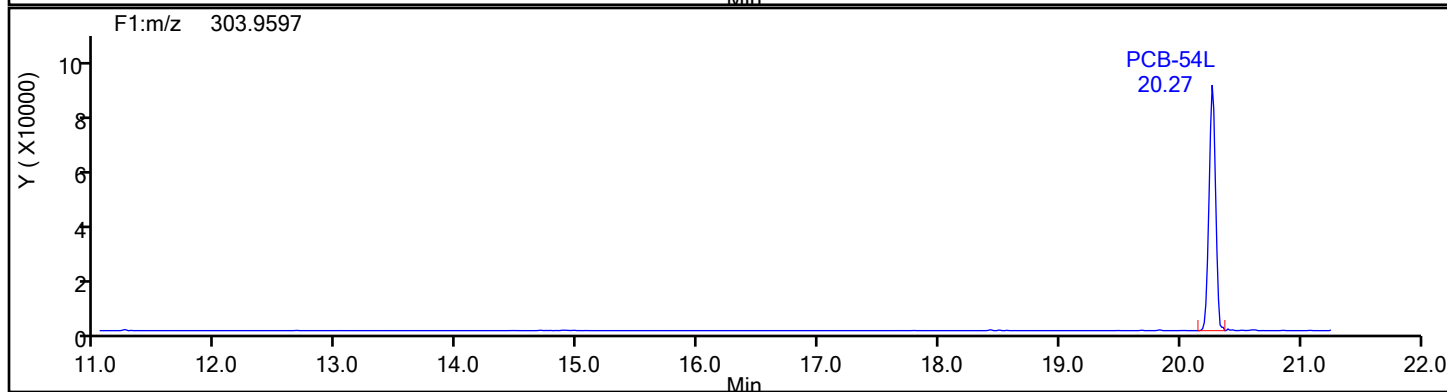
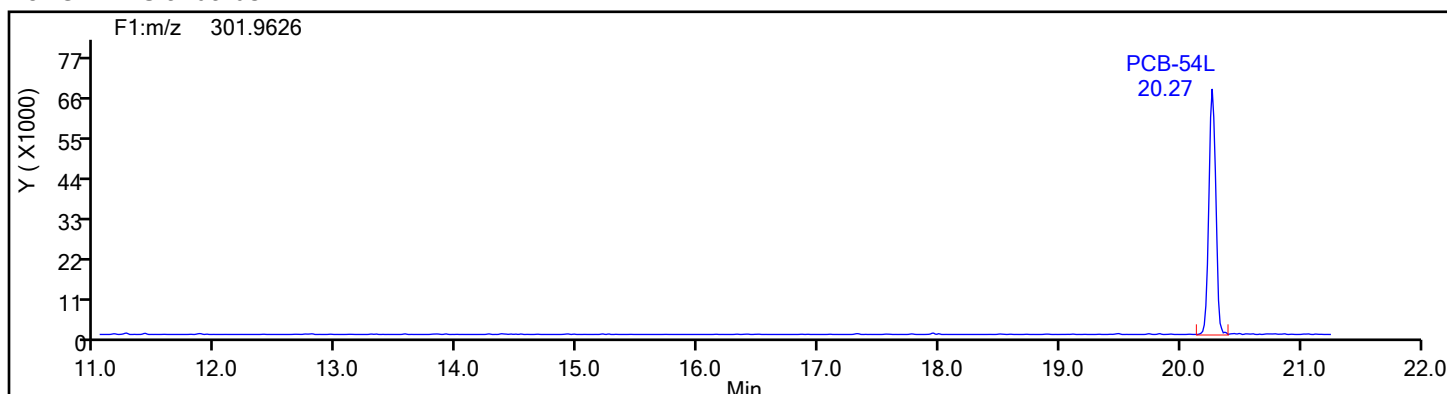
Column Type: SPB-Octyl

Column Dia: 0.25 mm

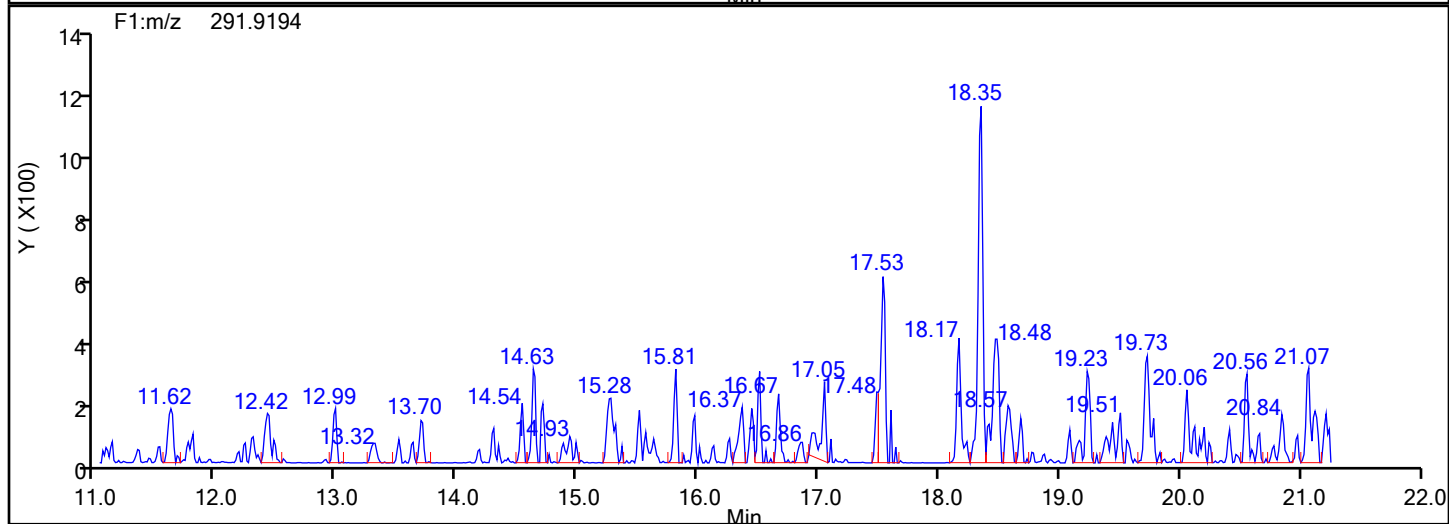
TePCB F1



TePCB F1 Standards

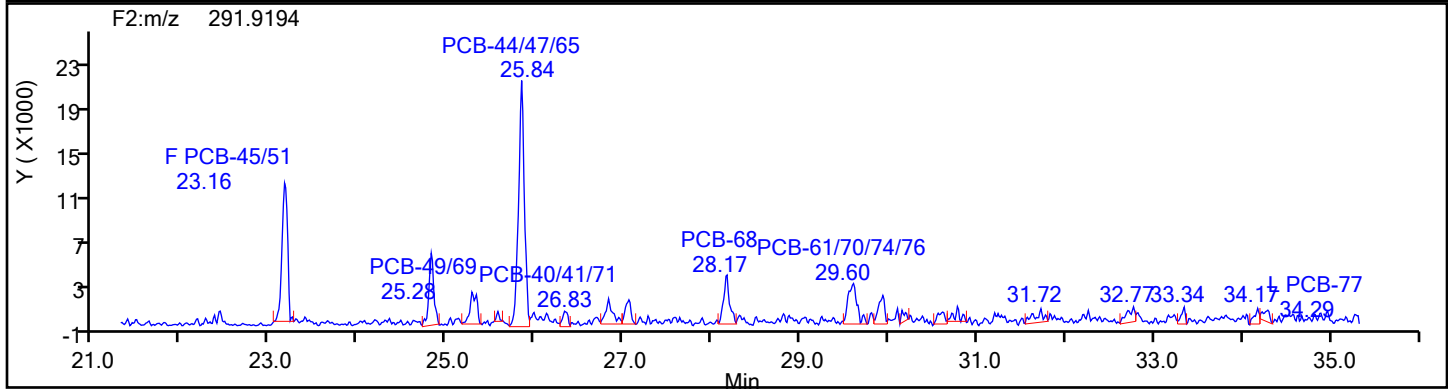
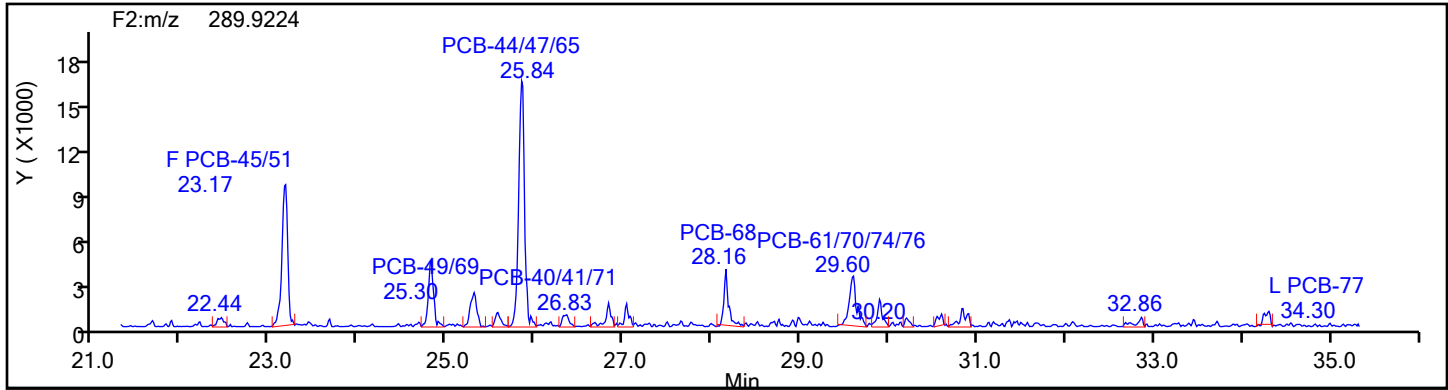


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Injection Date:	28-Jun-2024 13:48:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 - EPN 4-1\IN-701-RUN 3-COMBINED		
Worklist#:	88219	Sample Line#:	7
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TePCB F1			

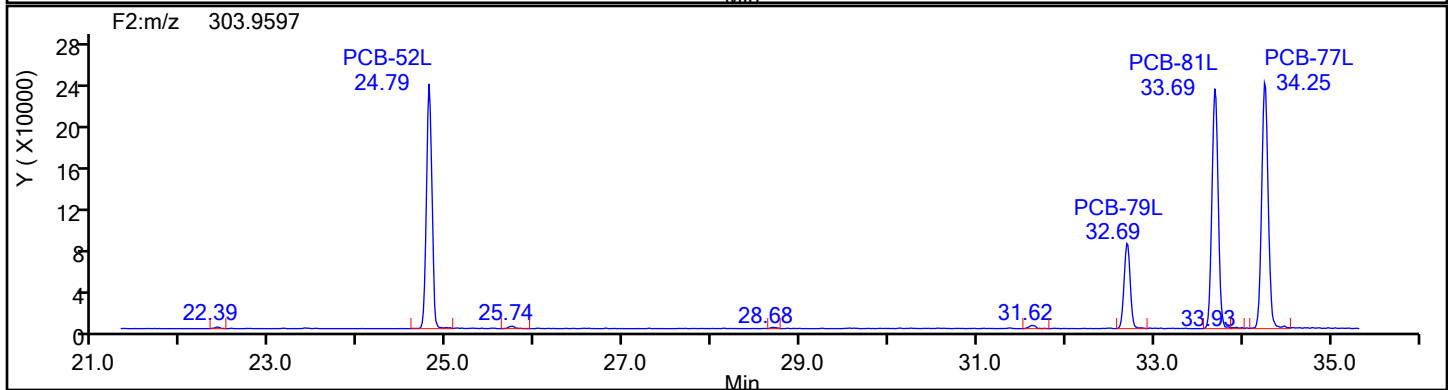
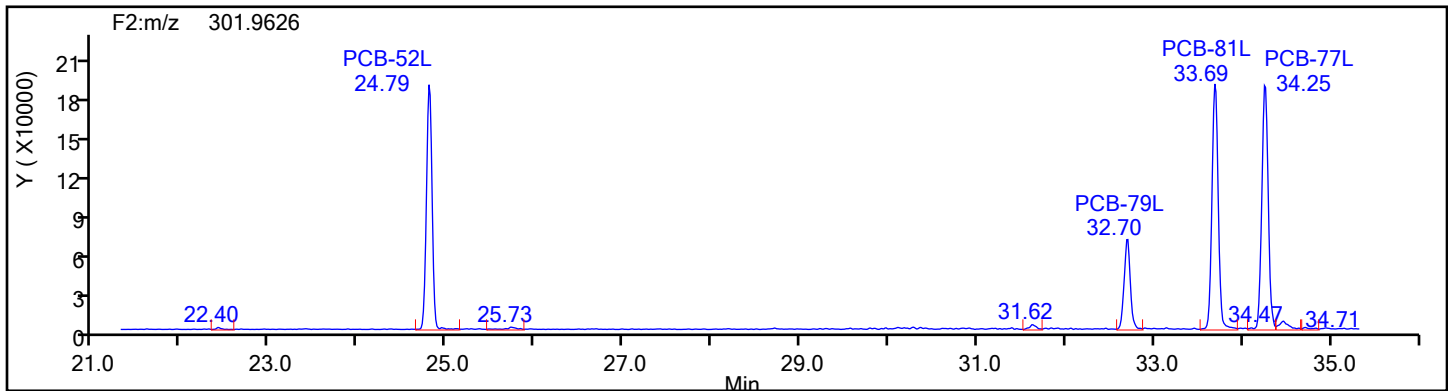


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

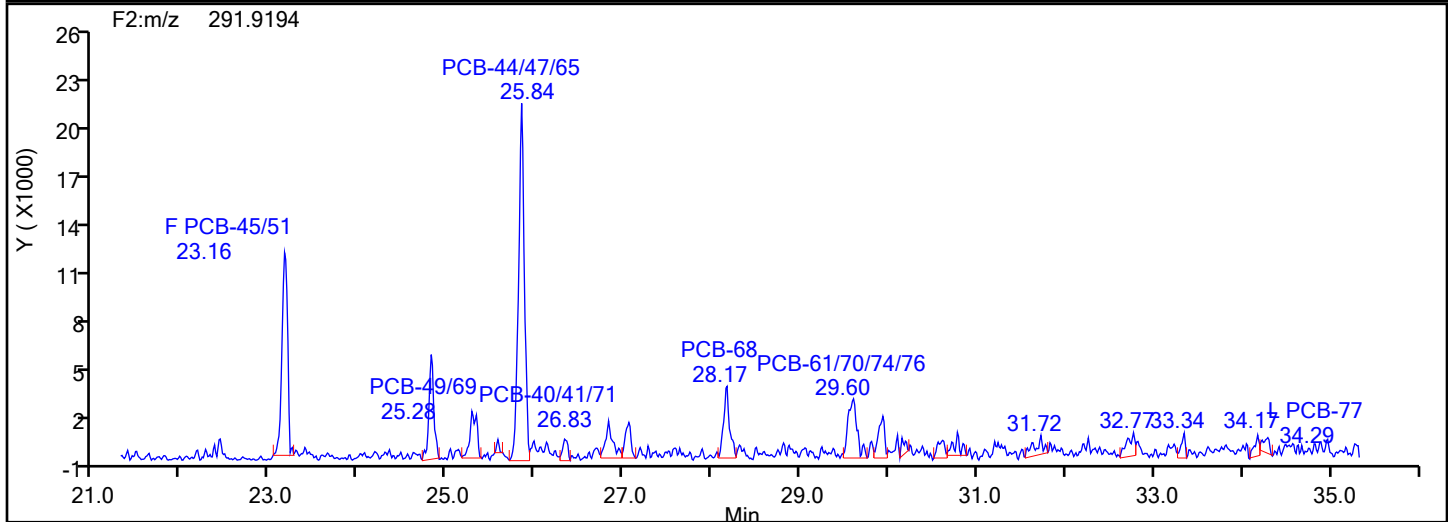
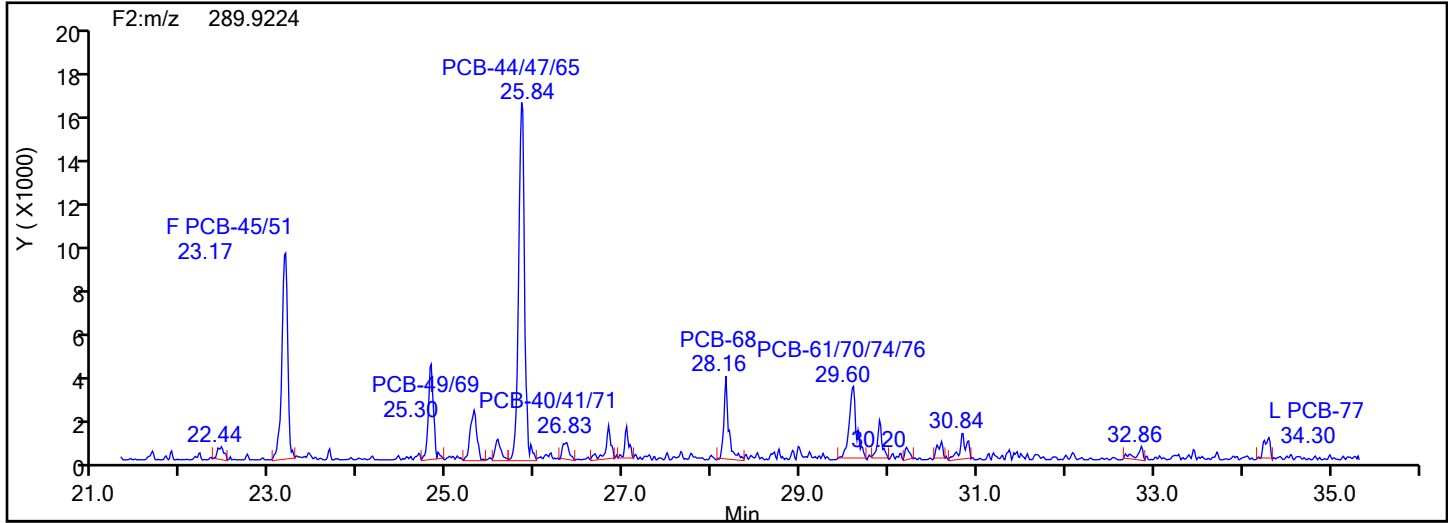


## TePCB F2 Standards

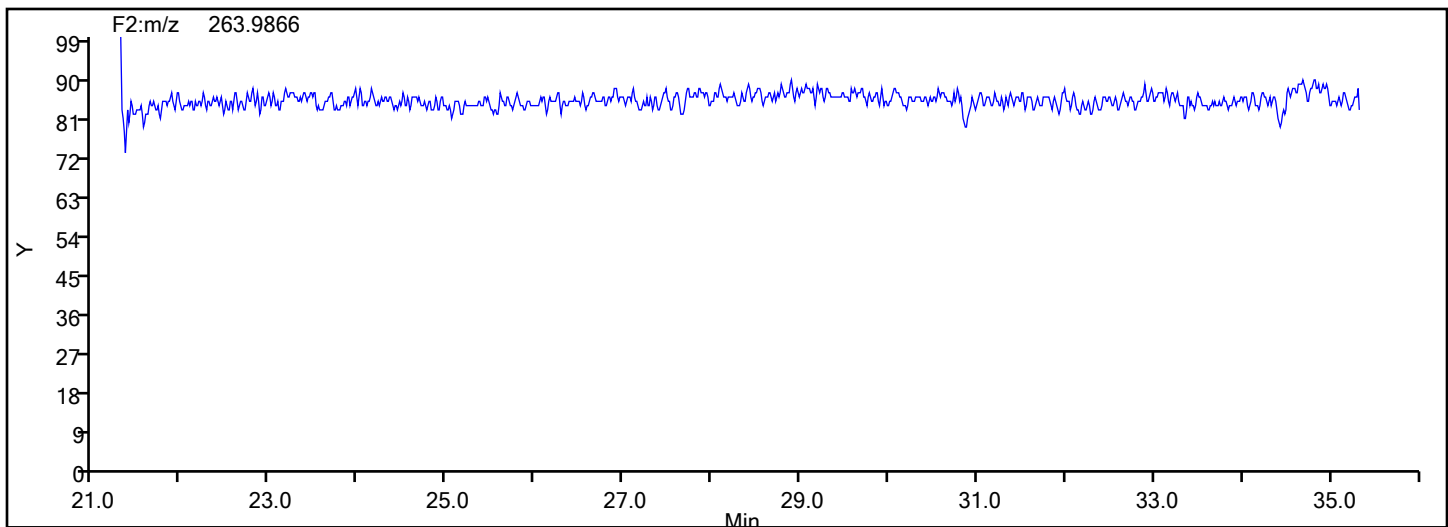


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

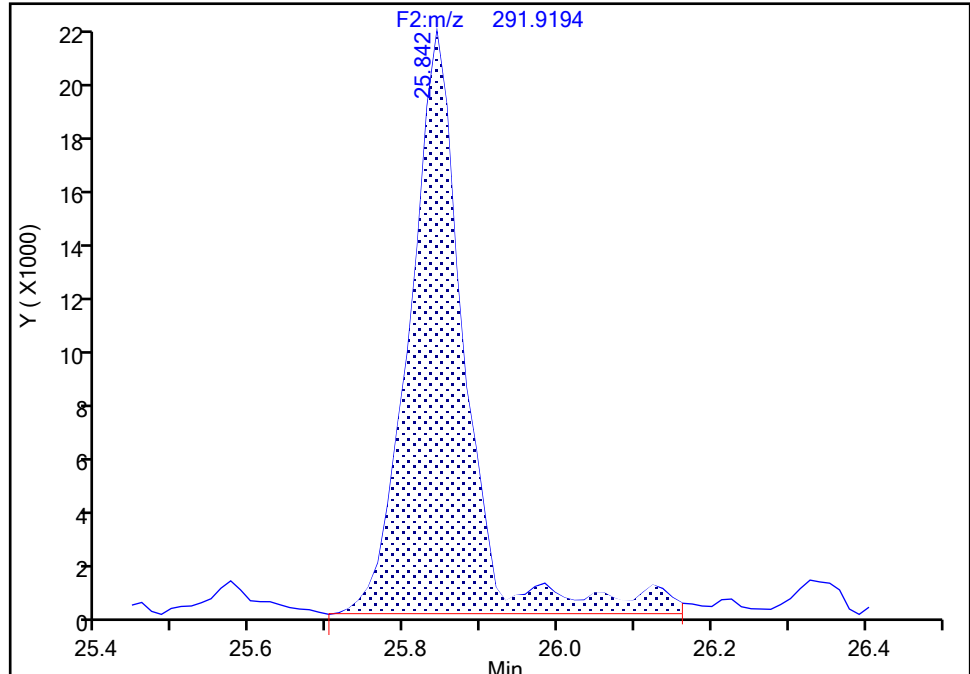
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Injection Date: 28-Jun-2024 13:48:00 Instrument ID: D2D  
Lims ID: 140-36940-A-3-C Lab Sample ID: 140-36940-3  
Client ID: M23 - EPN 4-1\IN-701-RUN 3-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-44/47/65, CAS: STL01803**

Signal: 2

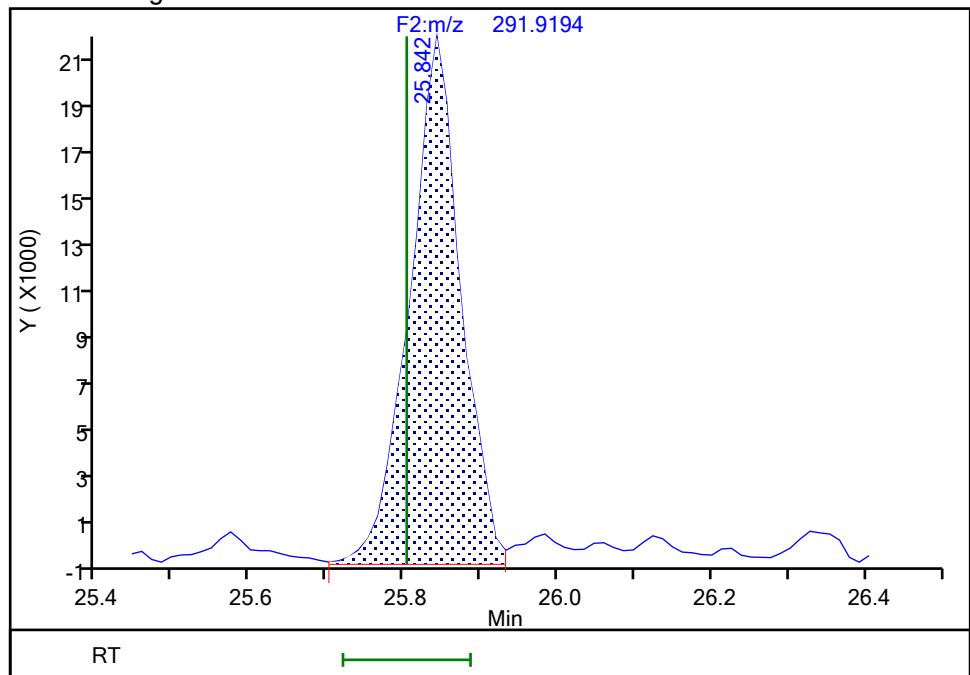
RT: 25.84  
Area: 107405  
Amount: 1.768120  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.84  
Area: 98087  
Amount: 1.678534  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 14:57:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

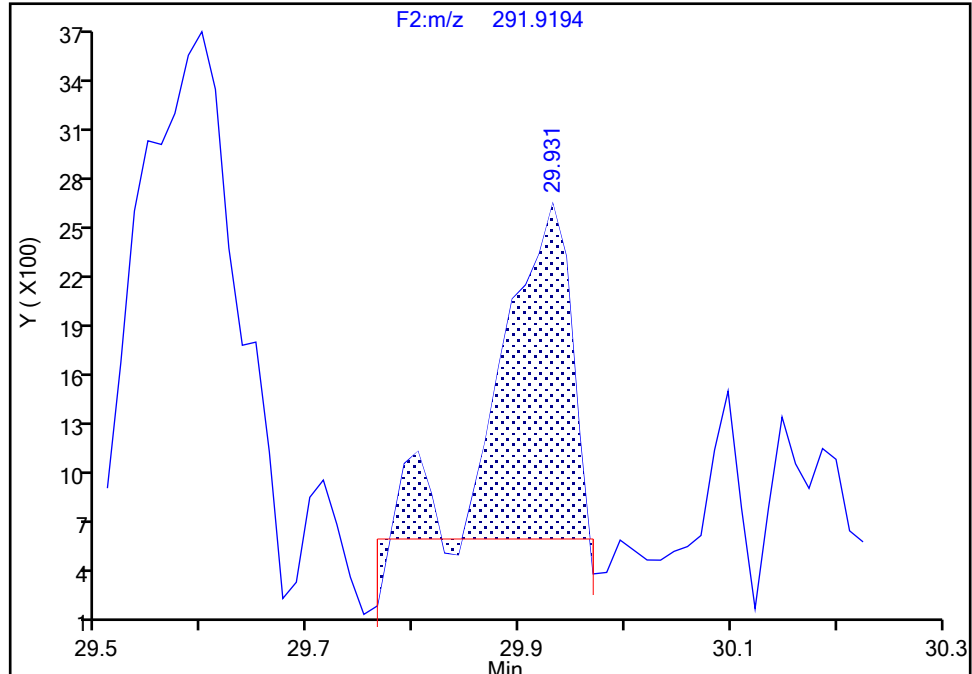
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Injection Date: 28-Jun-2024 13:48:00 Instrument ID: D2D  
Lims ID: 140-36940-A-3-C Lab Sample ID: 140-36940-3  
Client ID: M23 - EPN 4-1\IN-701-RUN 3-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

PCB-66, CAS: 32598-10-0

Signal: 2

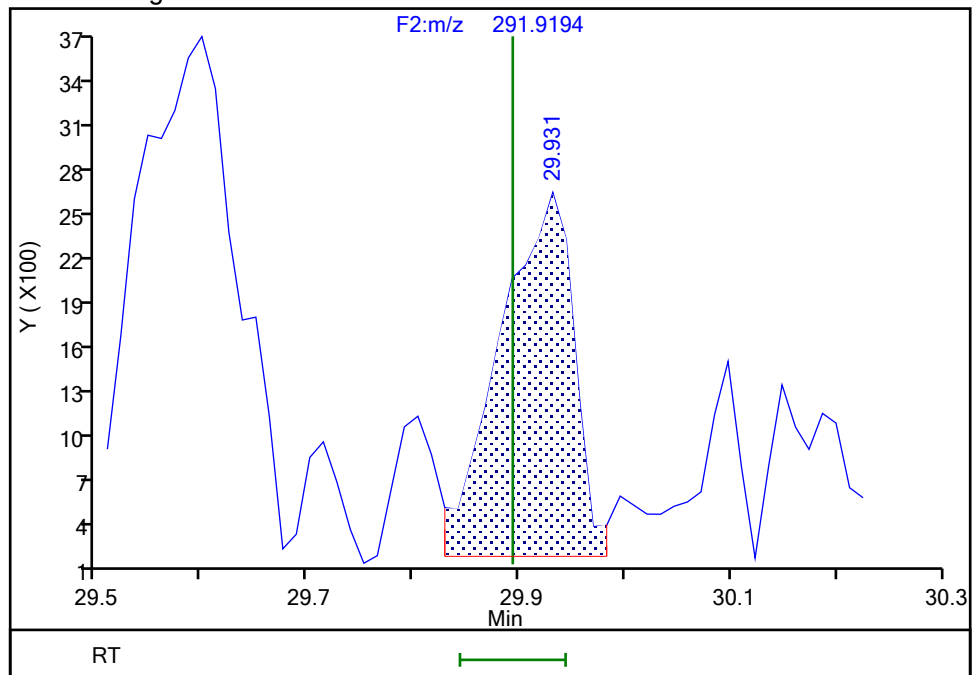
RT: 29.93  
Area: 8953  
Amount: 0.117591  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.93  
Area: 11738  
Amount: 0.138299  
Amount Units: pg/ul

## Manual Integration Results



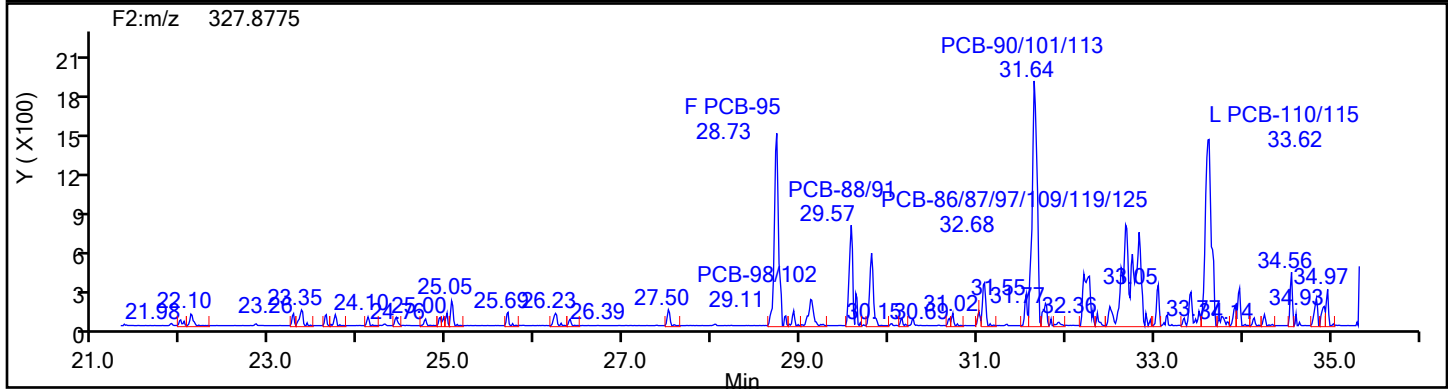
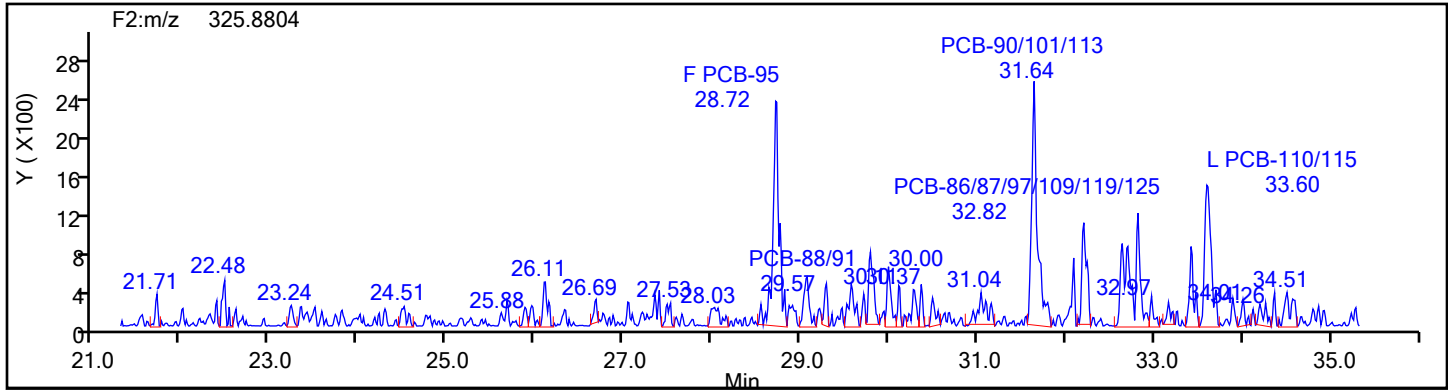
Reviewer: P0IK, 28-Jun-2024 15:02:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

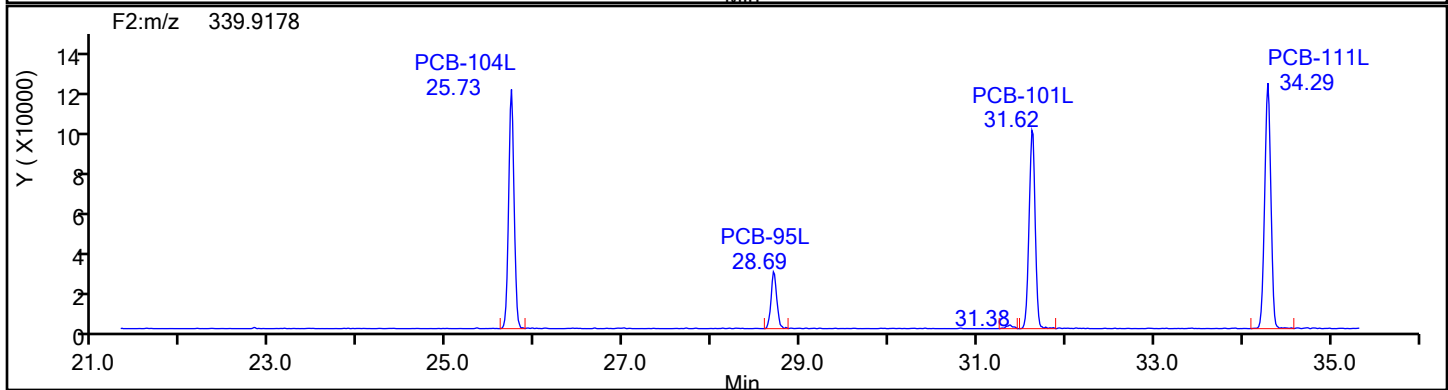
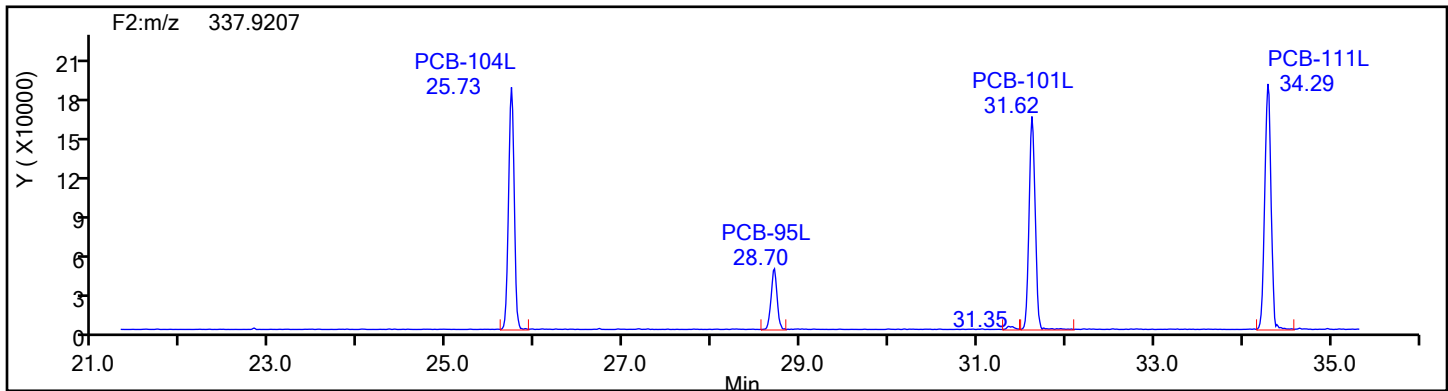
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

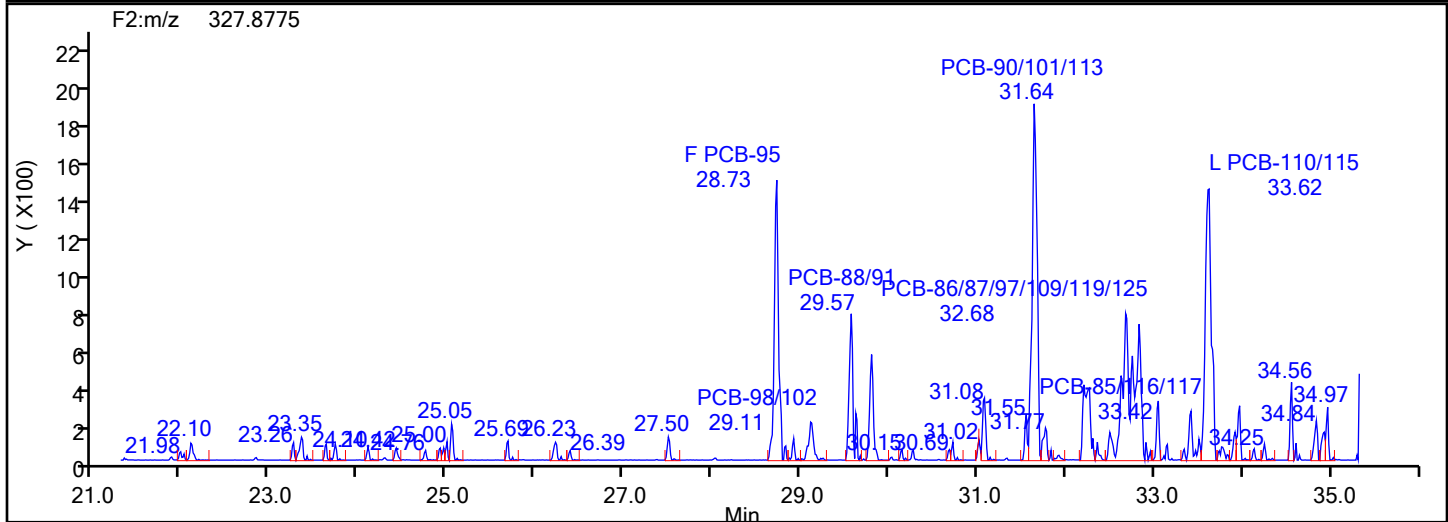
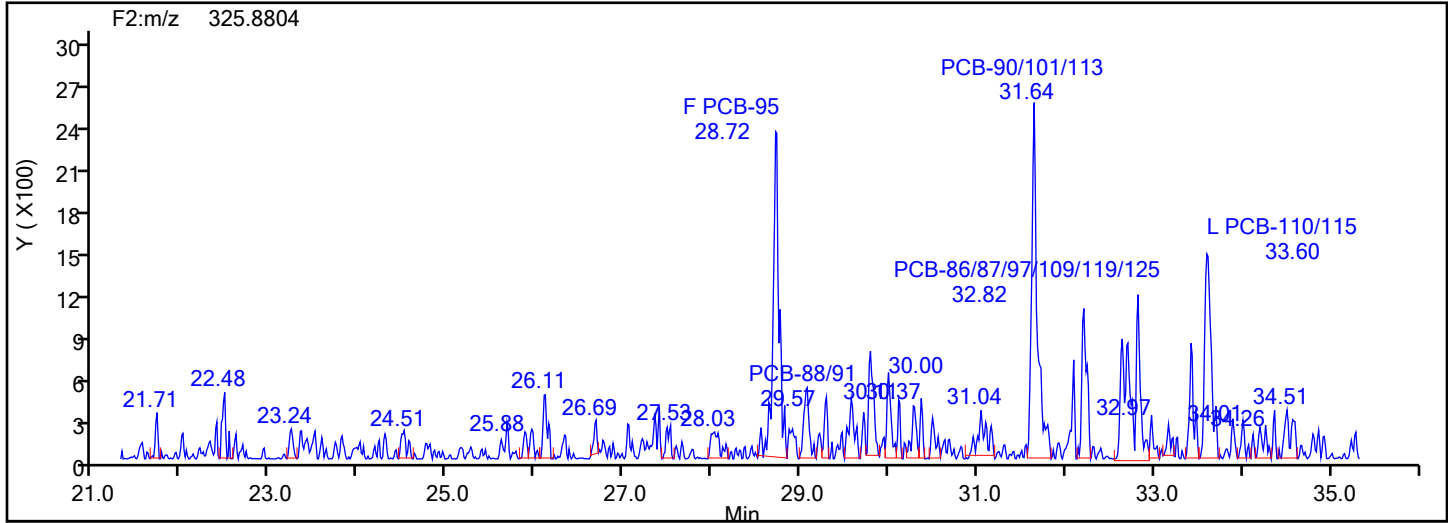


## PePCB F2 Standards

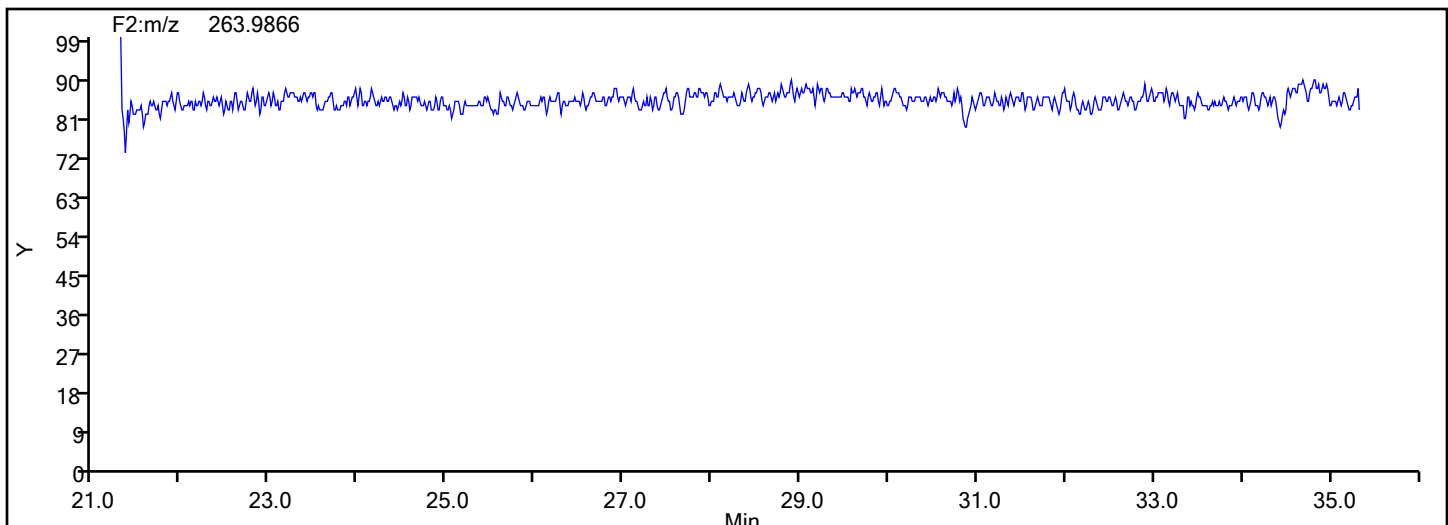


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

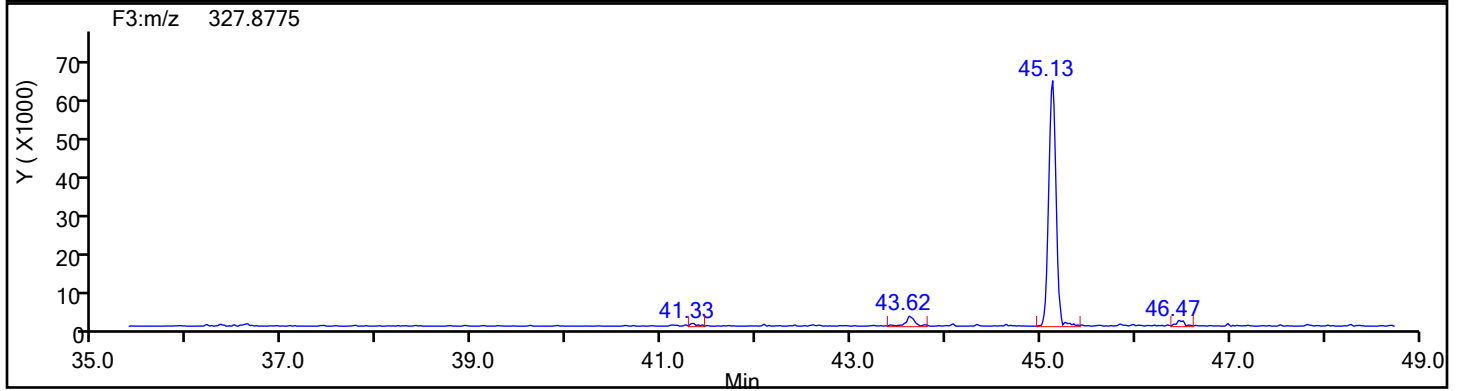
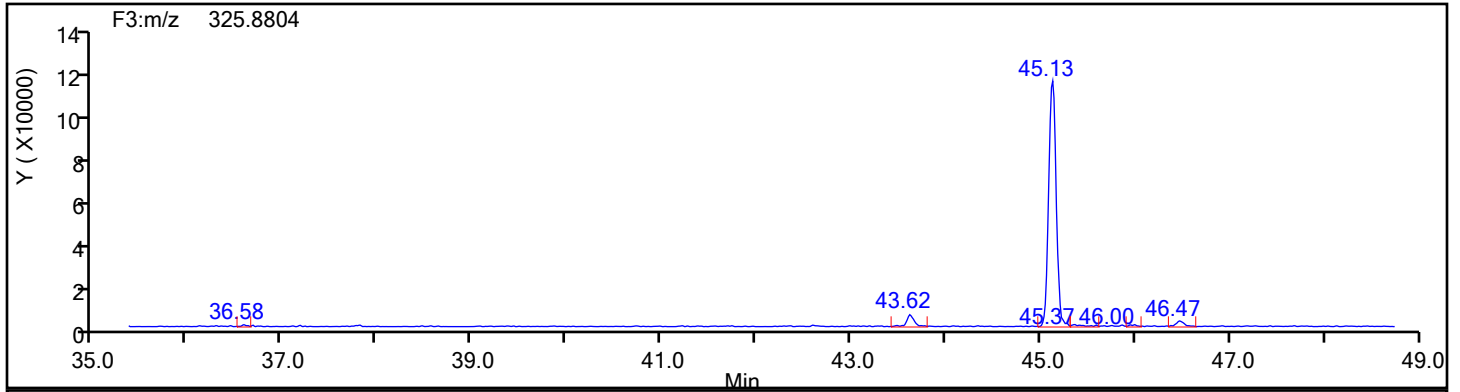


## PePCB F2 Lock Mass

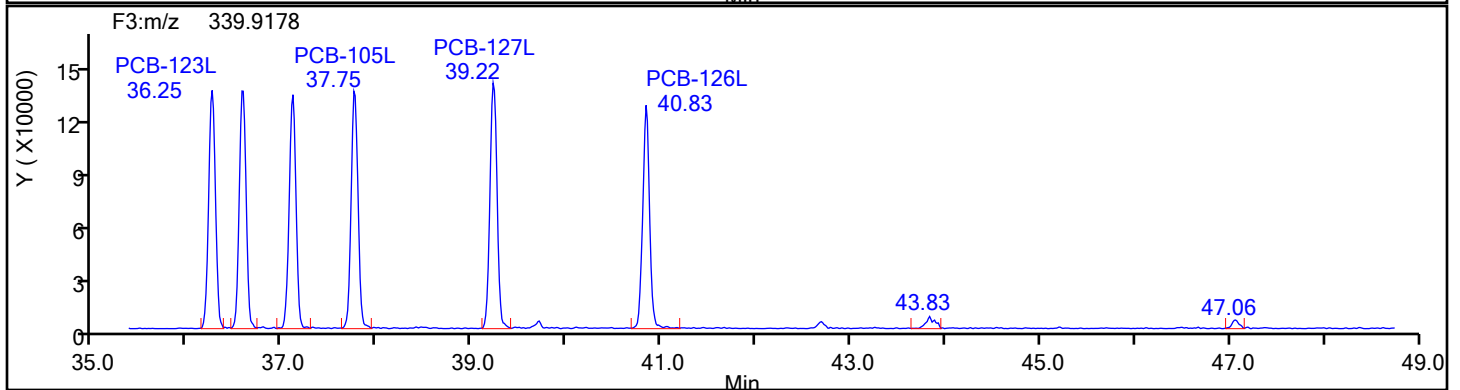
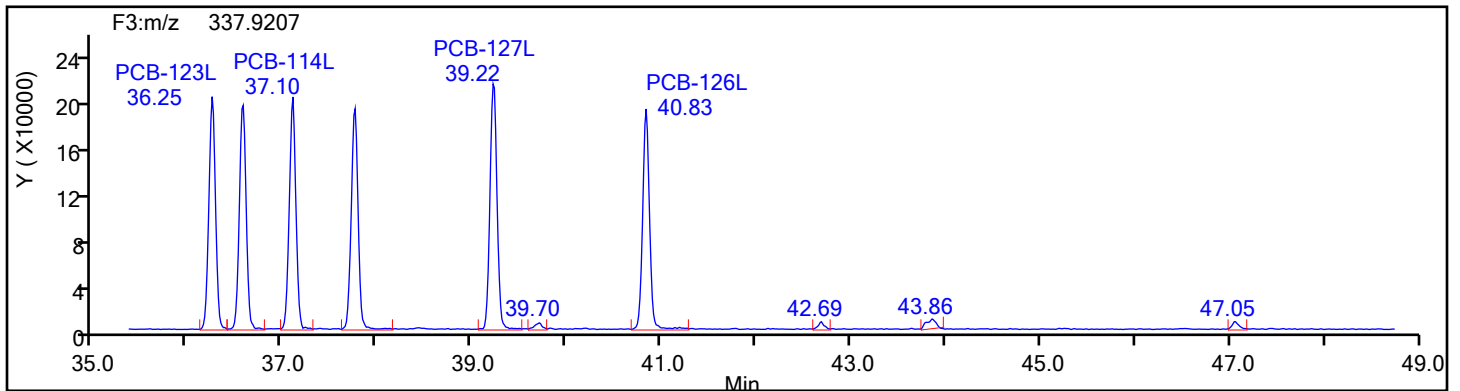


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

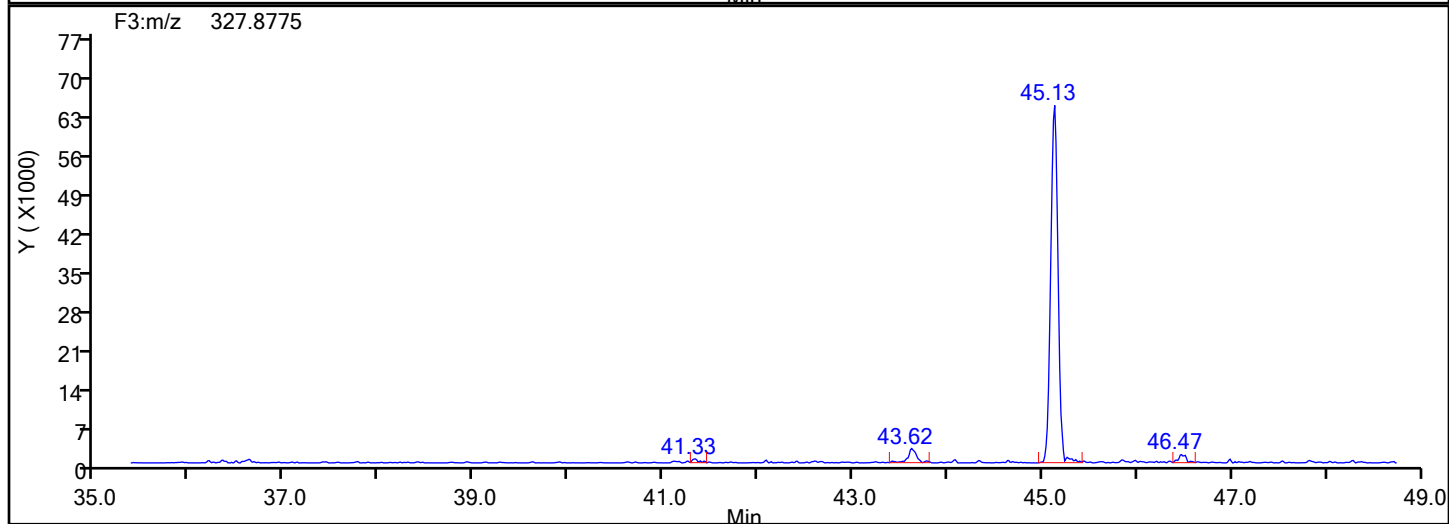
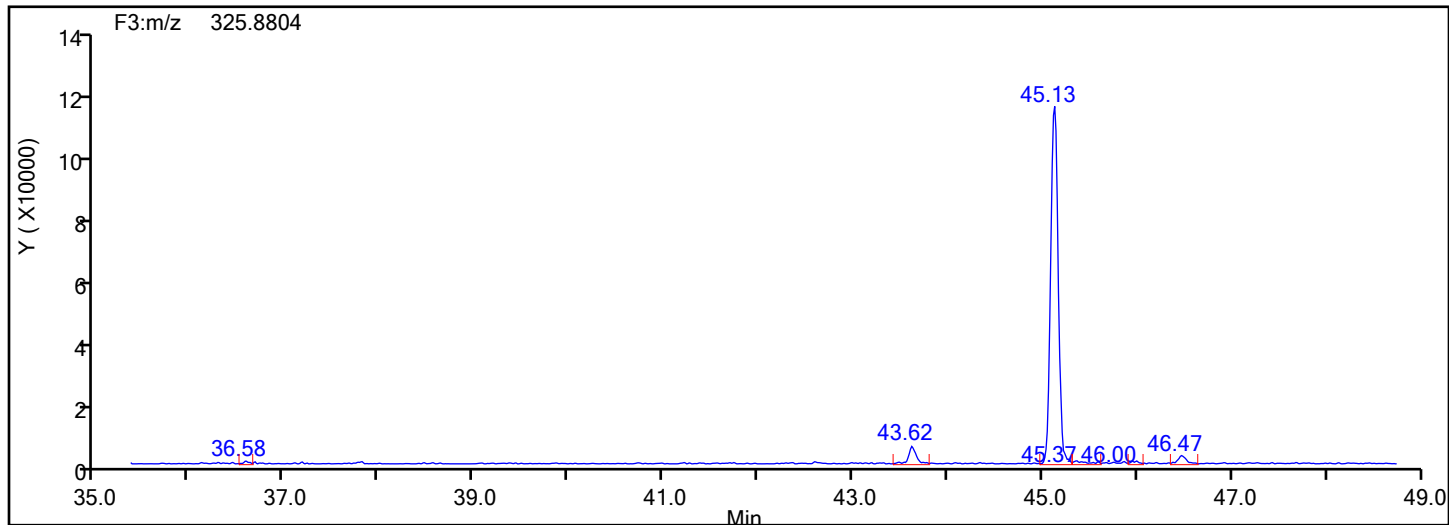


## PePCB F3 Standards

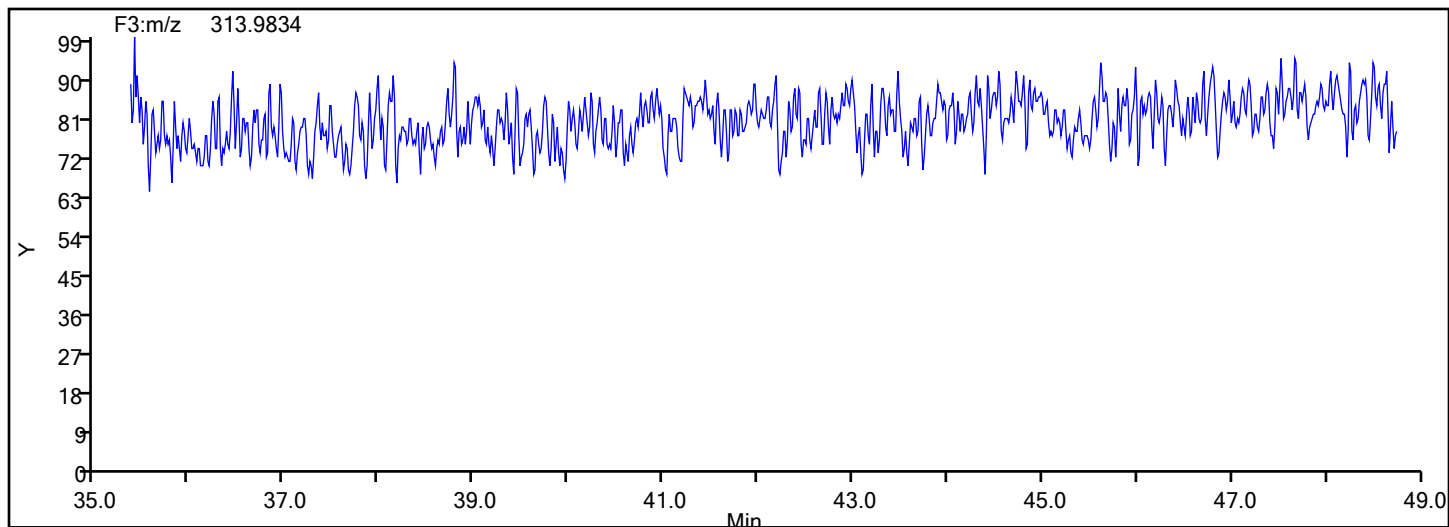


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

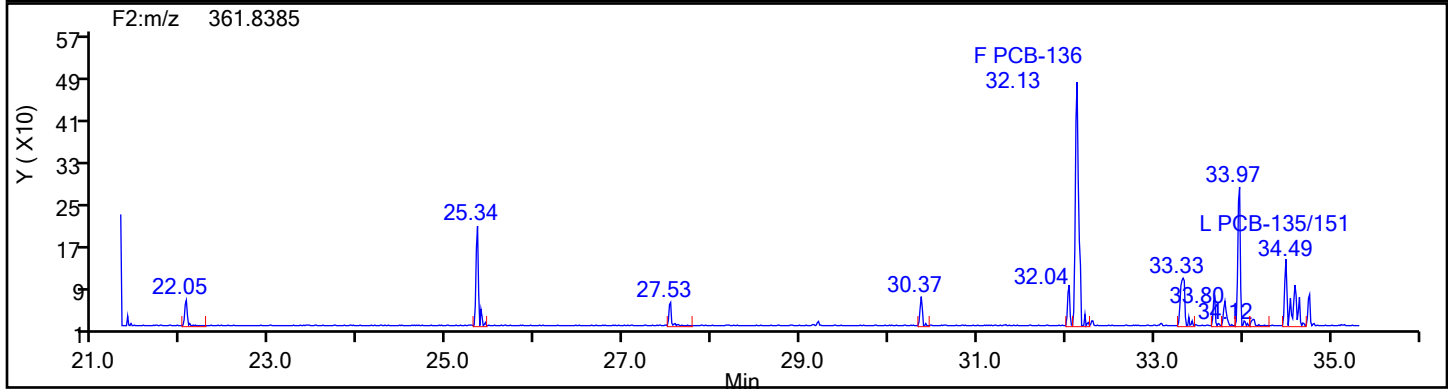
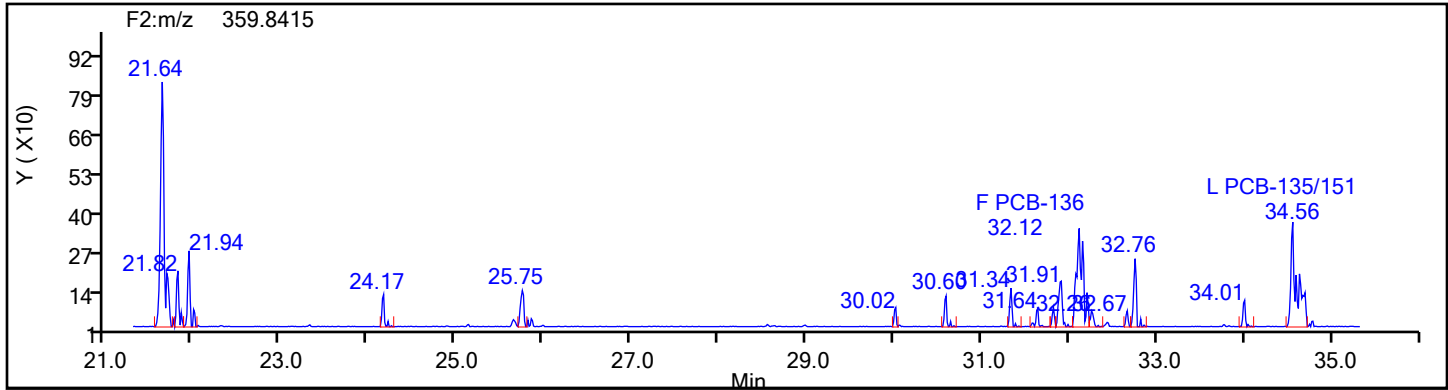


## PePCB F3 Lock Mass

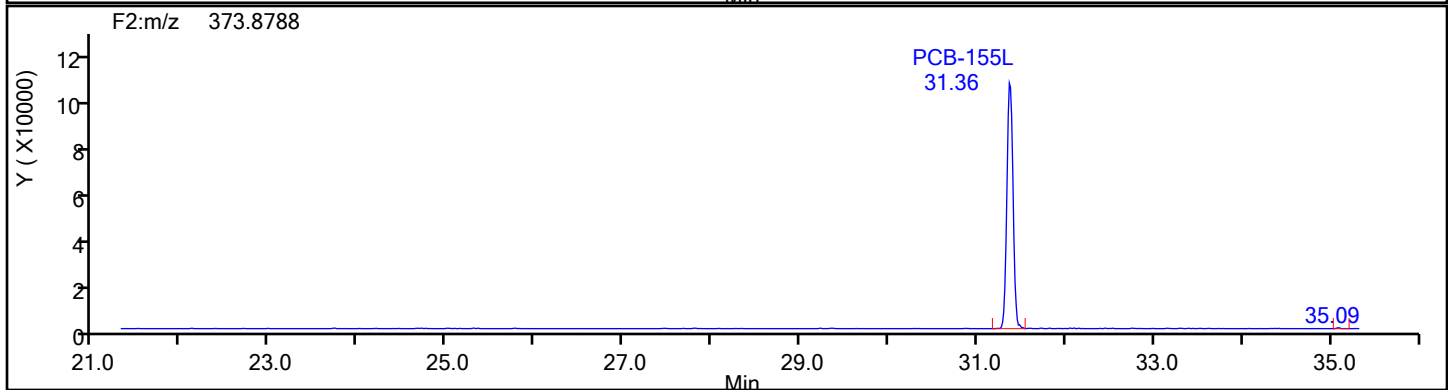
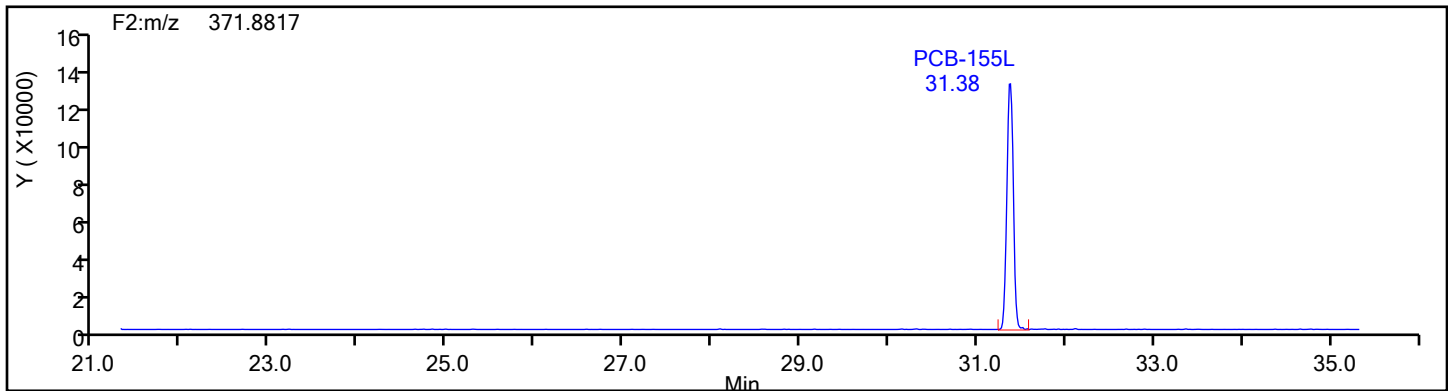


## Eurofins Knoxville

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Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

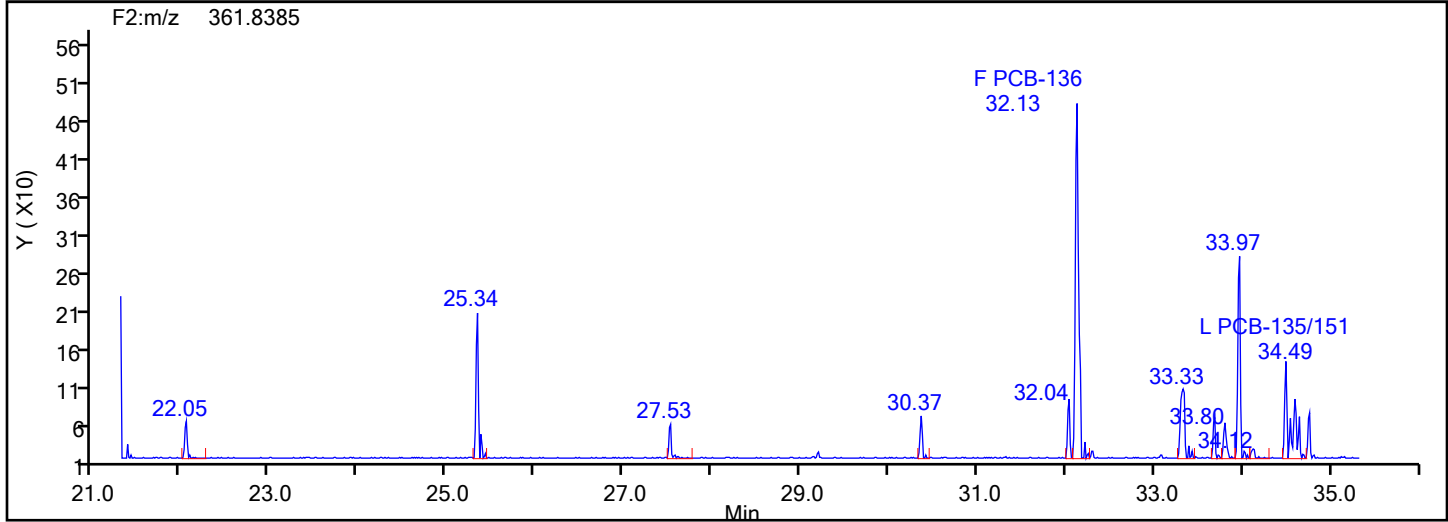
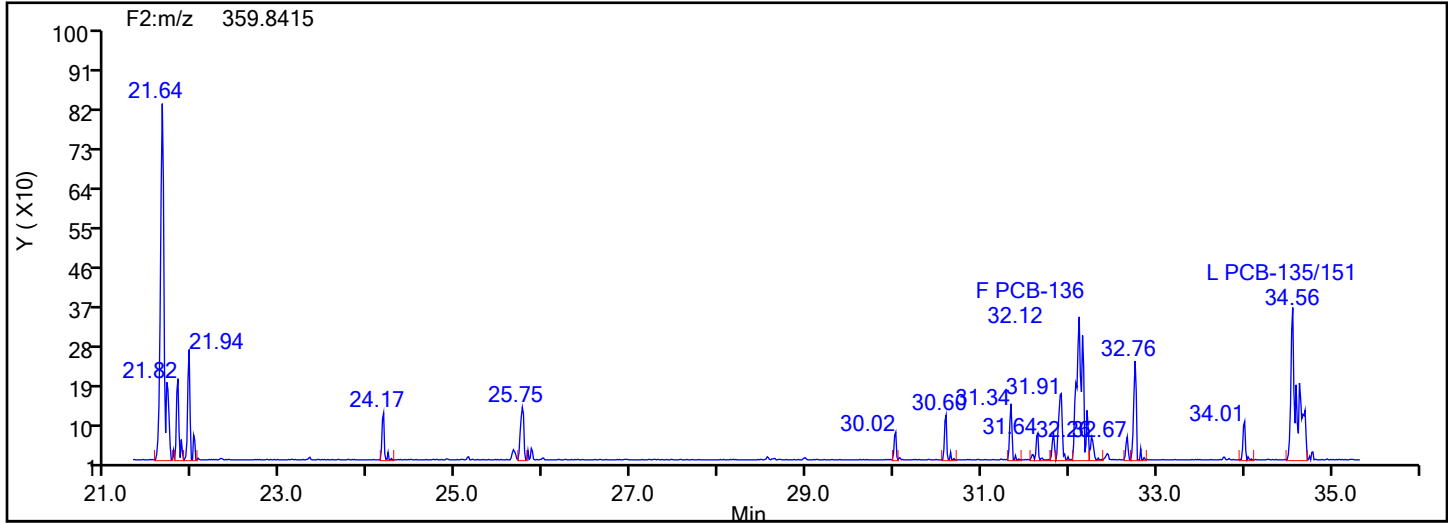


## HxPCB F2 Standards

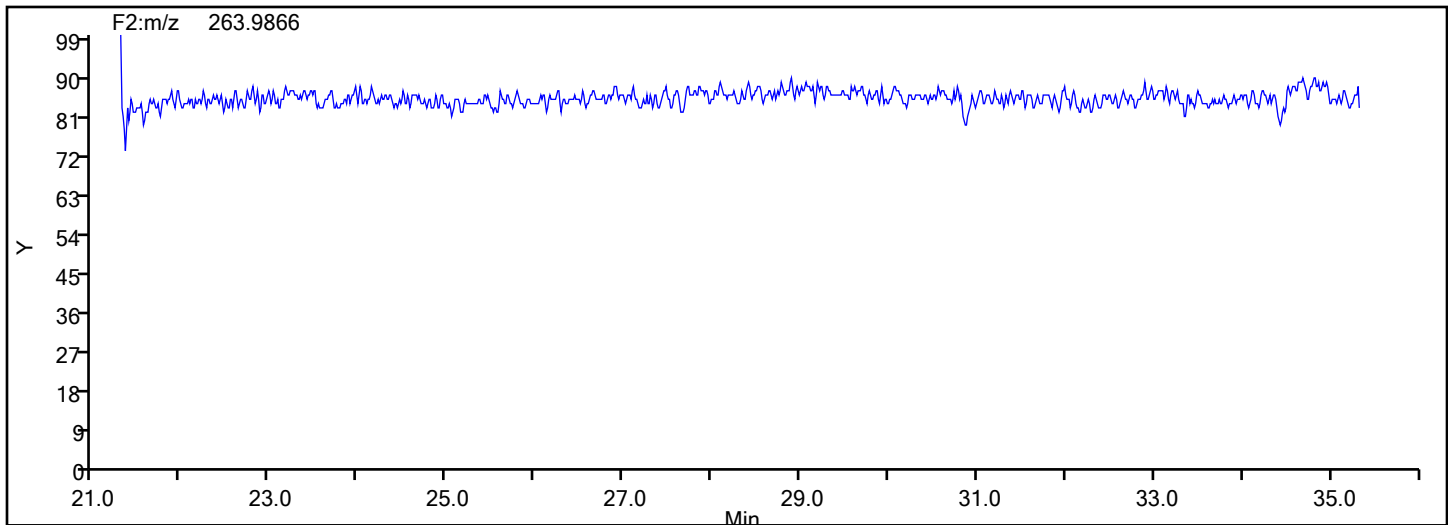


## Eurofins Knoxville

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Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1\IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

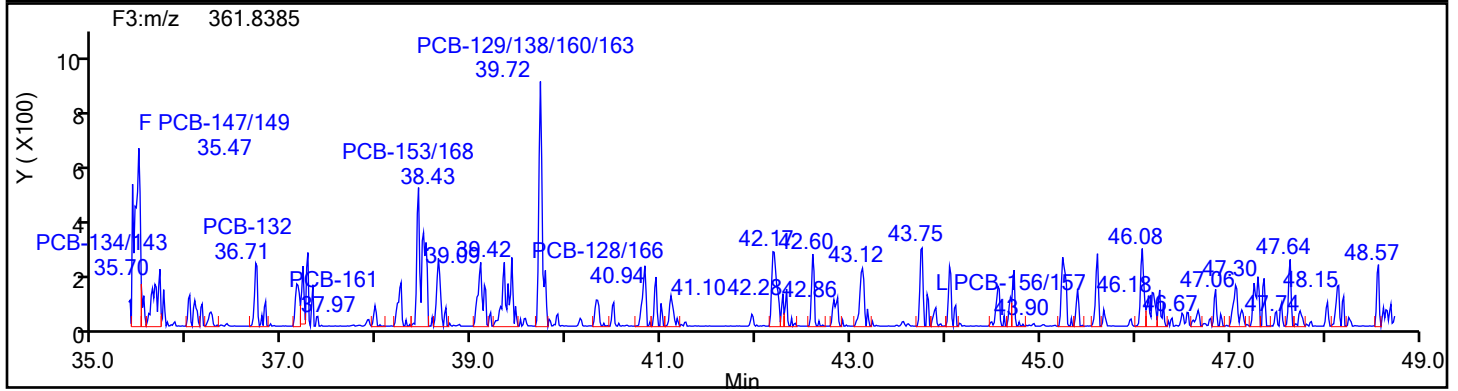
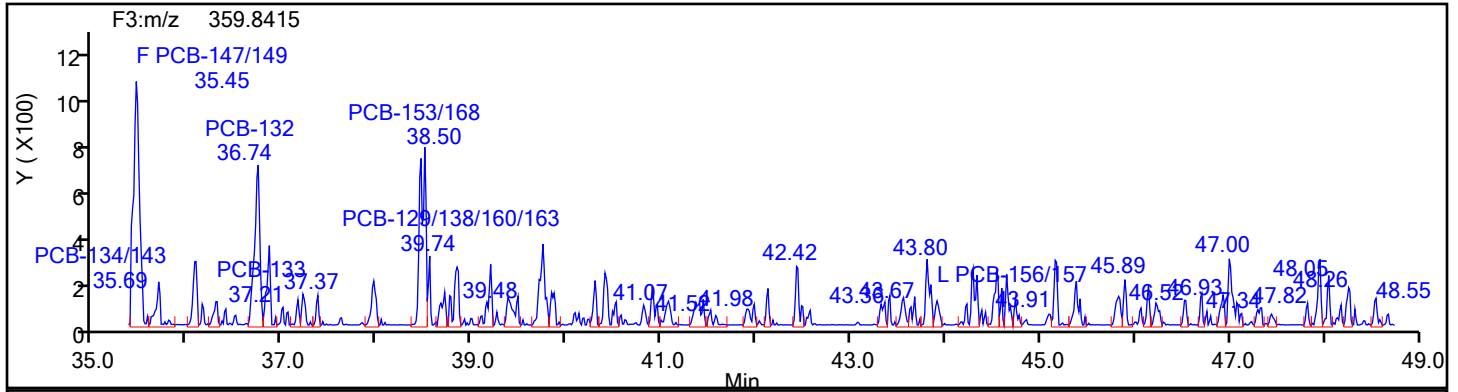


## HxPCB F2 Lock Mass

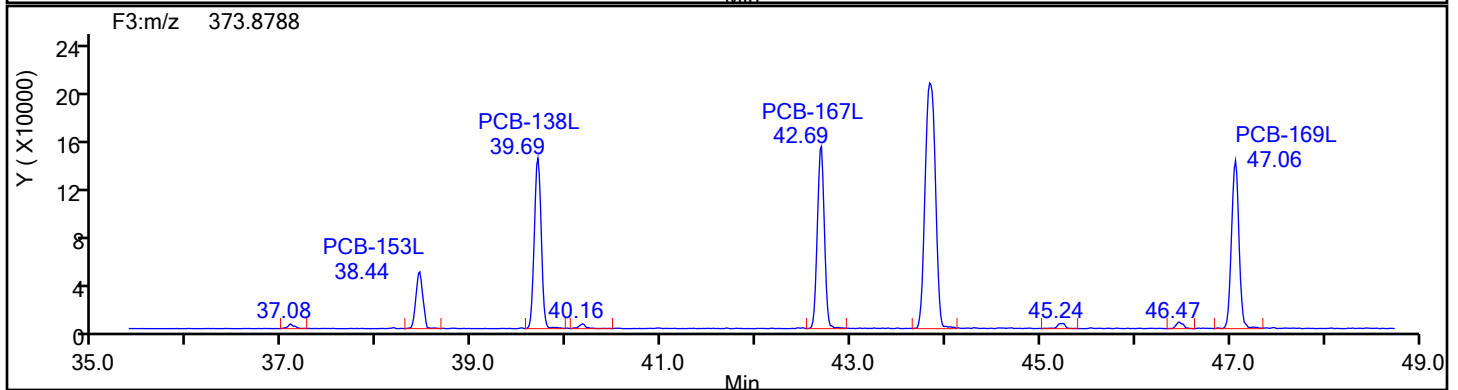
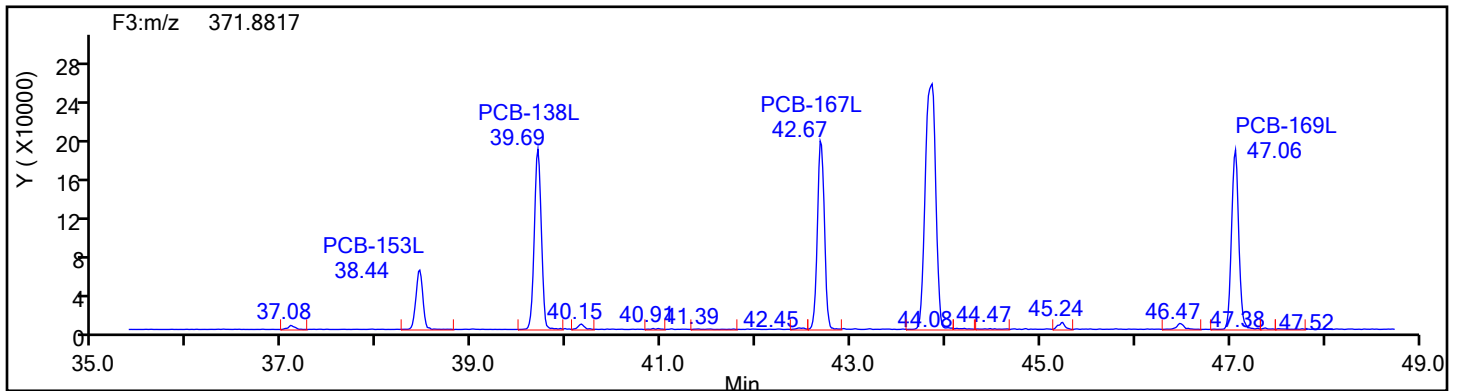


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3



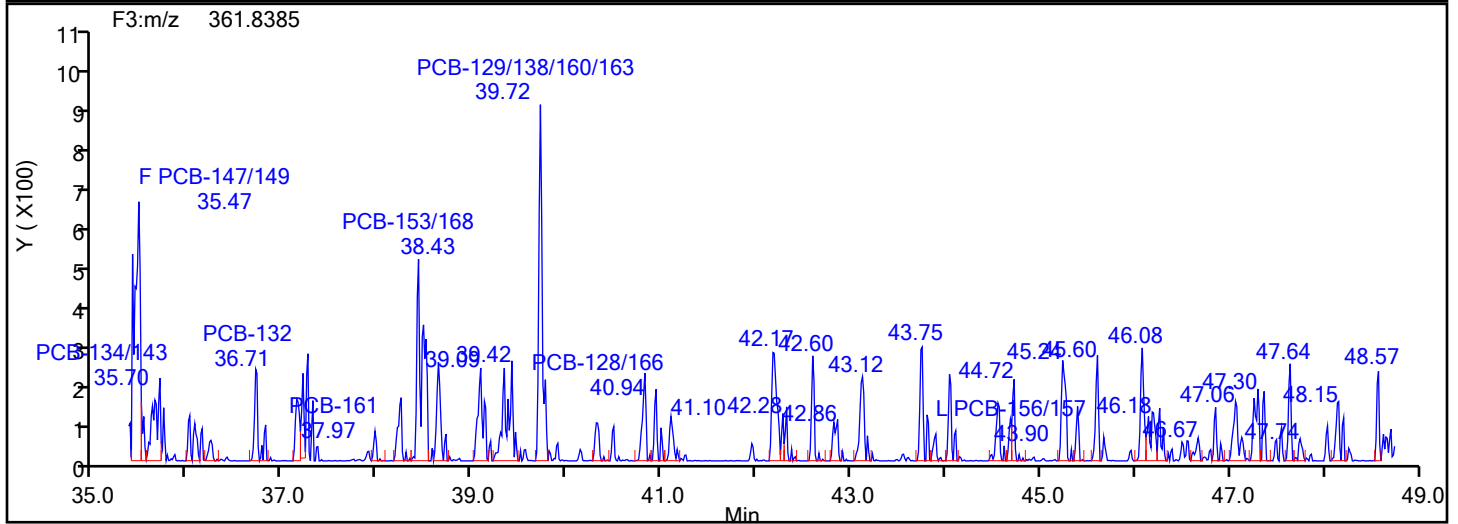
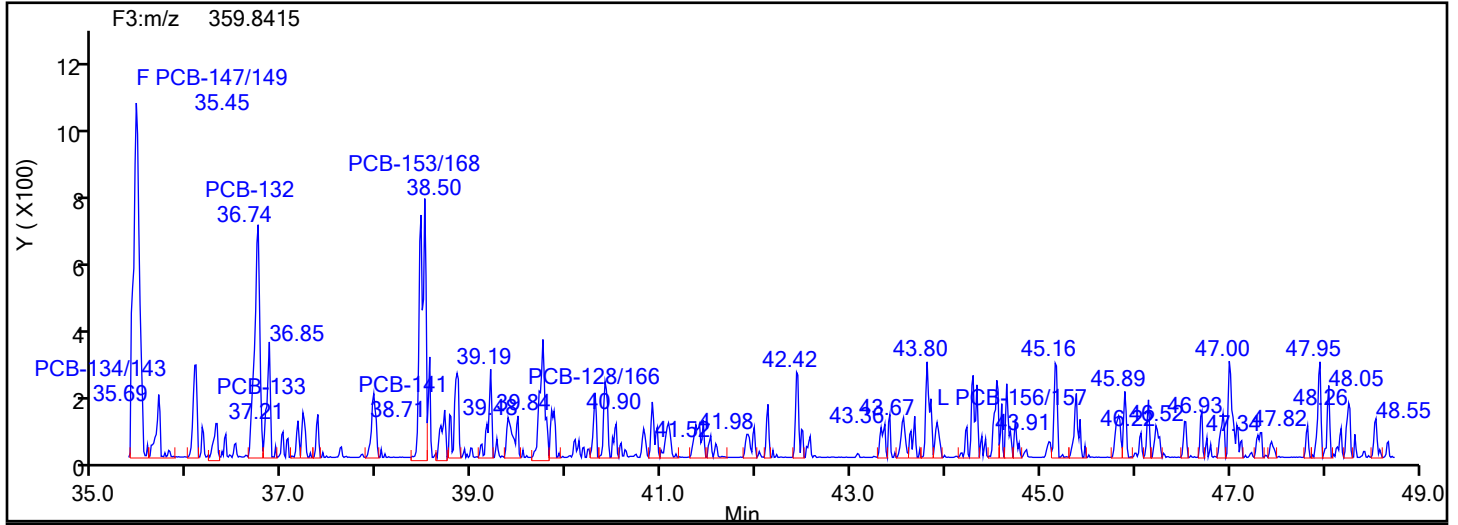
## HxPCB F3 Standards



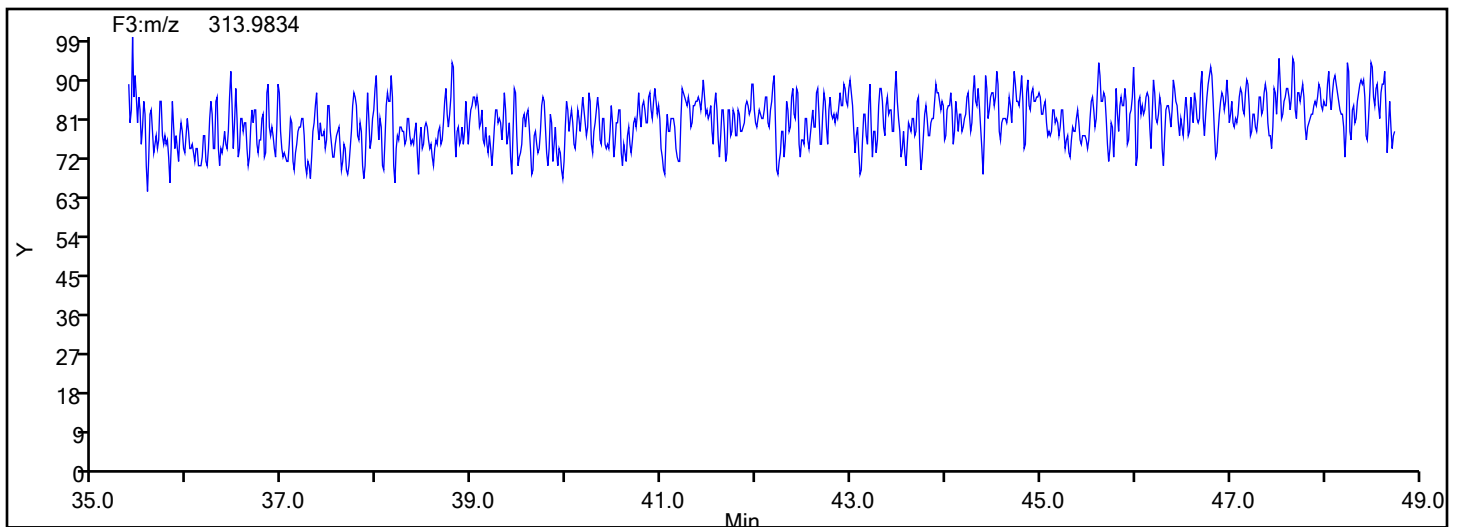


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

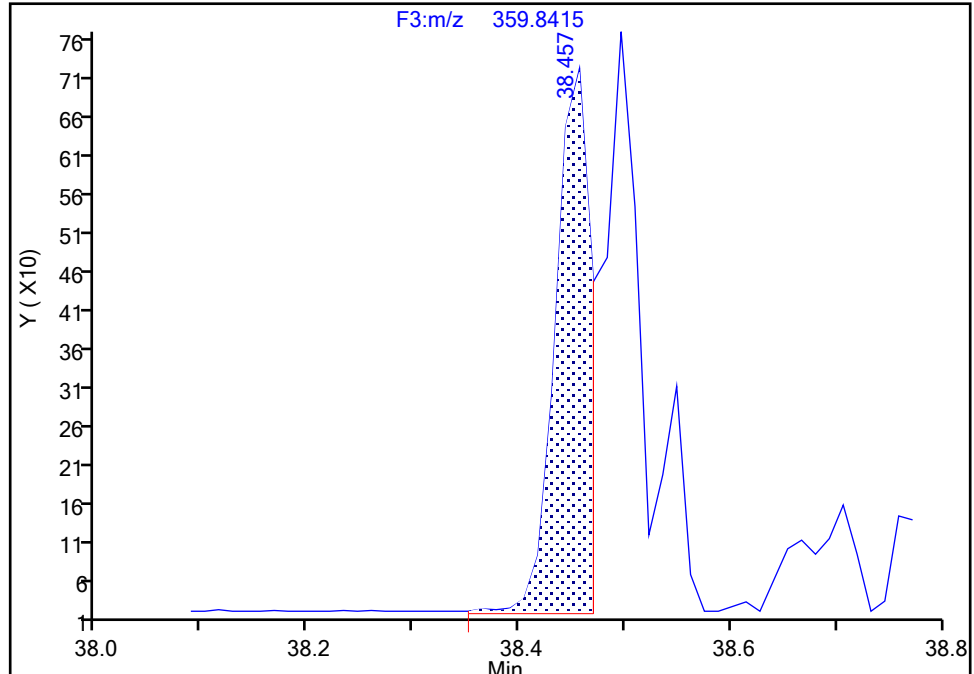
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Injection Date: 28-Jun-2024 13:48:00 Instrument ID: D2D  
Lims ID: 140-36940-A-3-C Lab Sample ID: 140-36940-3  
Client ID: M23 - EPN 4-1\IN-701-RUN 3-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

PCB-153/168, CAS: STL01822

Signal: 1

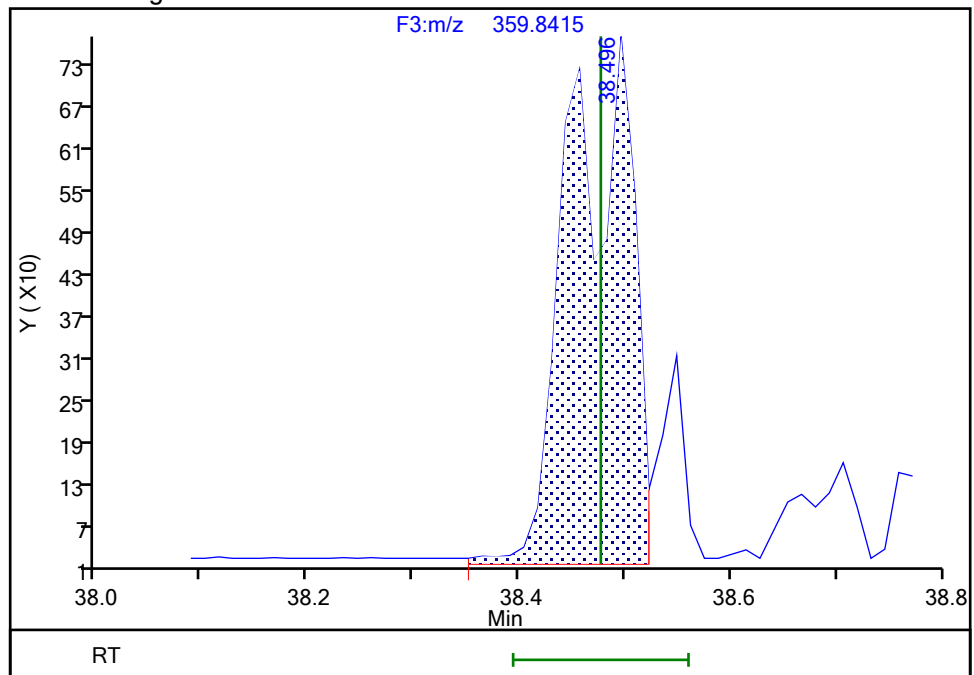
RT: 38.46  
Area: 1527  
Amount: 0.036786  
Amount Units: pg/ul

## Processing Integration Results



RT: 38.50  
Area: 3124  
Amount: 0.053073  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 15:16:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

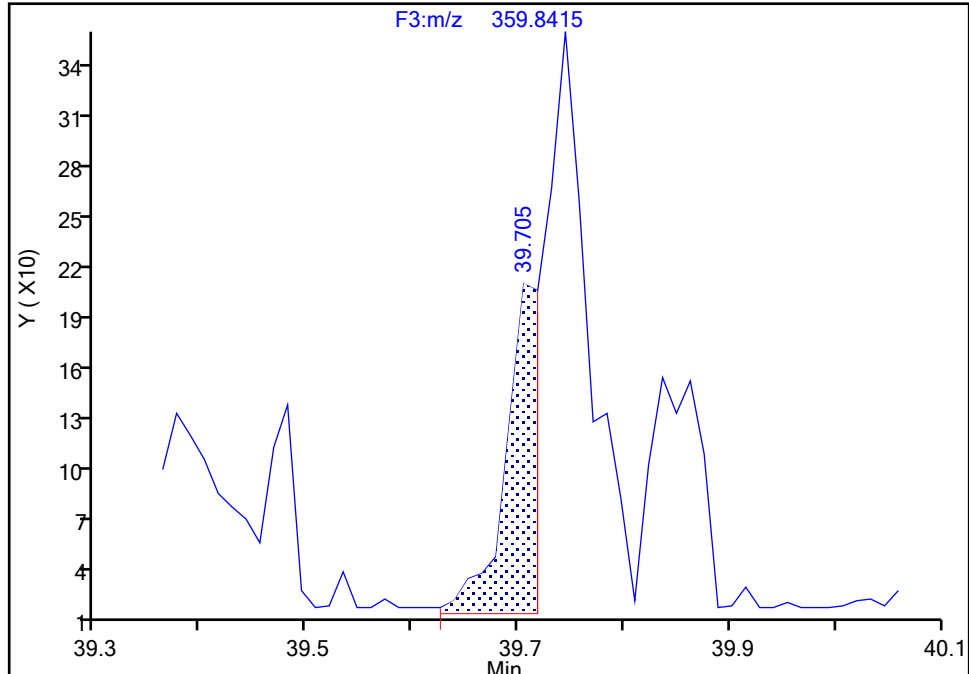
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Injection Date: 28-Jun-2024 13:48:00 Instrument ID: D2D  
Lims ID: 140-36940-A-3-C Lab Sample ID: 140-36940-3  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-129/138/160/163, CAS: STL02296**

Signal: 1

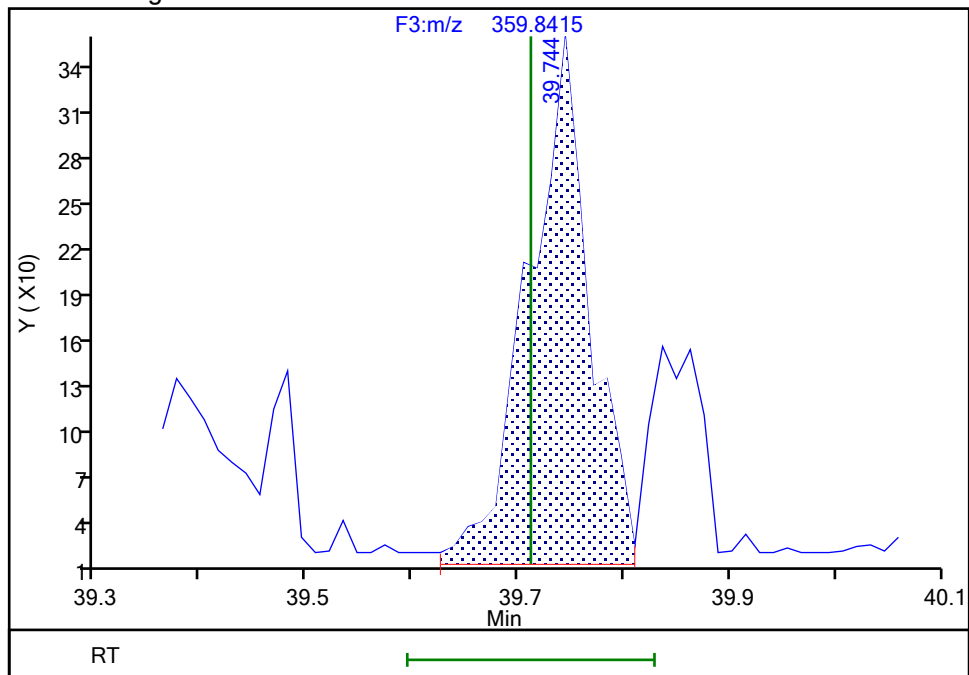
RT: 39.70  
Area: 389  
Amount: 0.030763  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.74  
Area: 1393  
Amount: 0.042597  
Amount Units: pg/ul

## Manual Integration Results



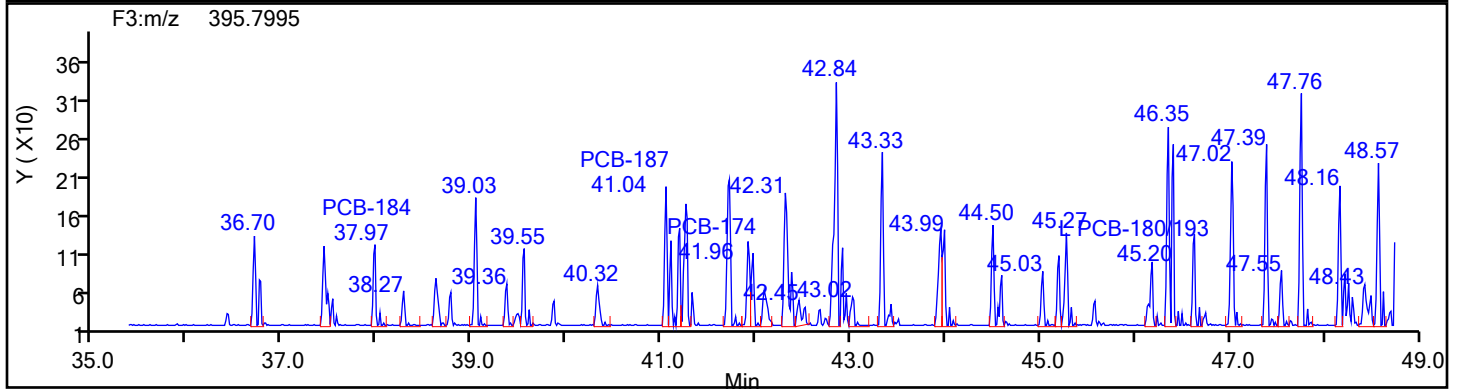
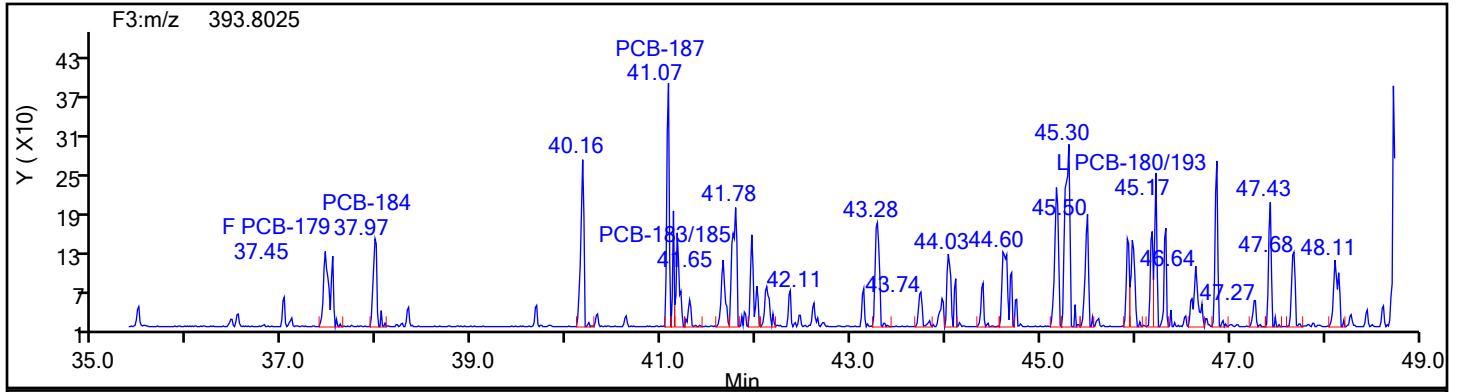
Reviewer: P0IK, 28-Jun-2024 15:17:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

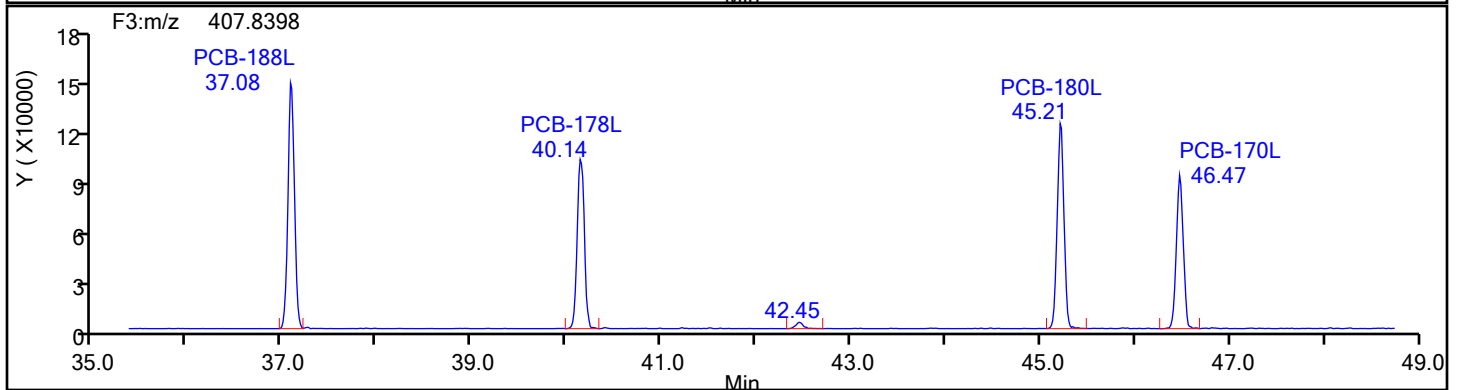
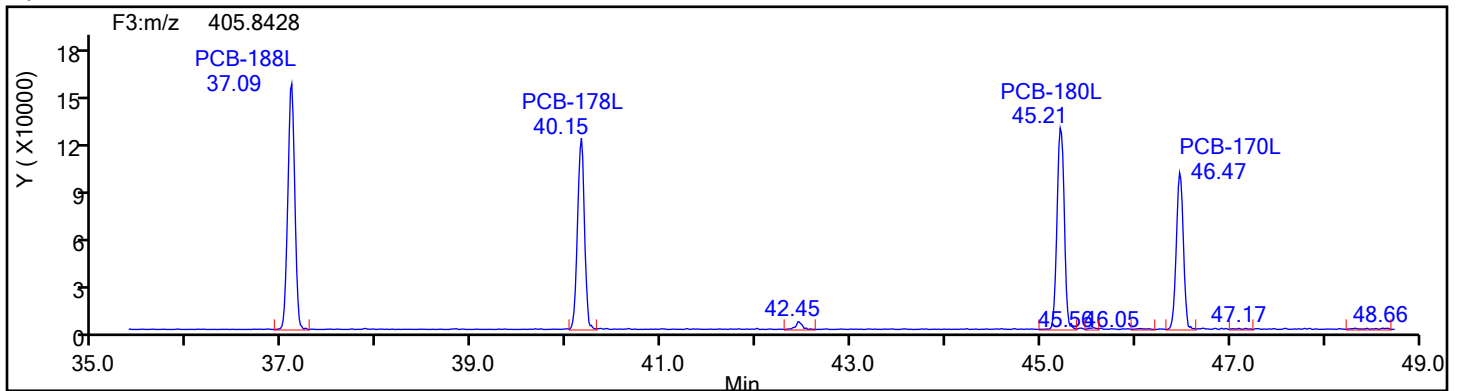
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

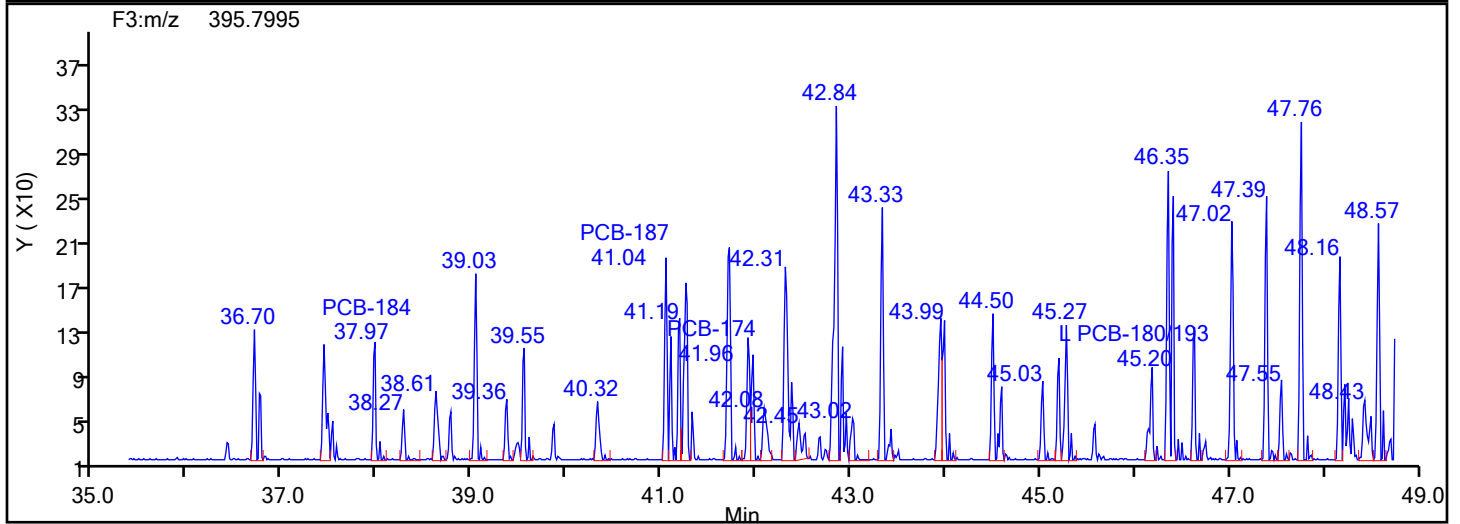
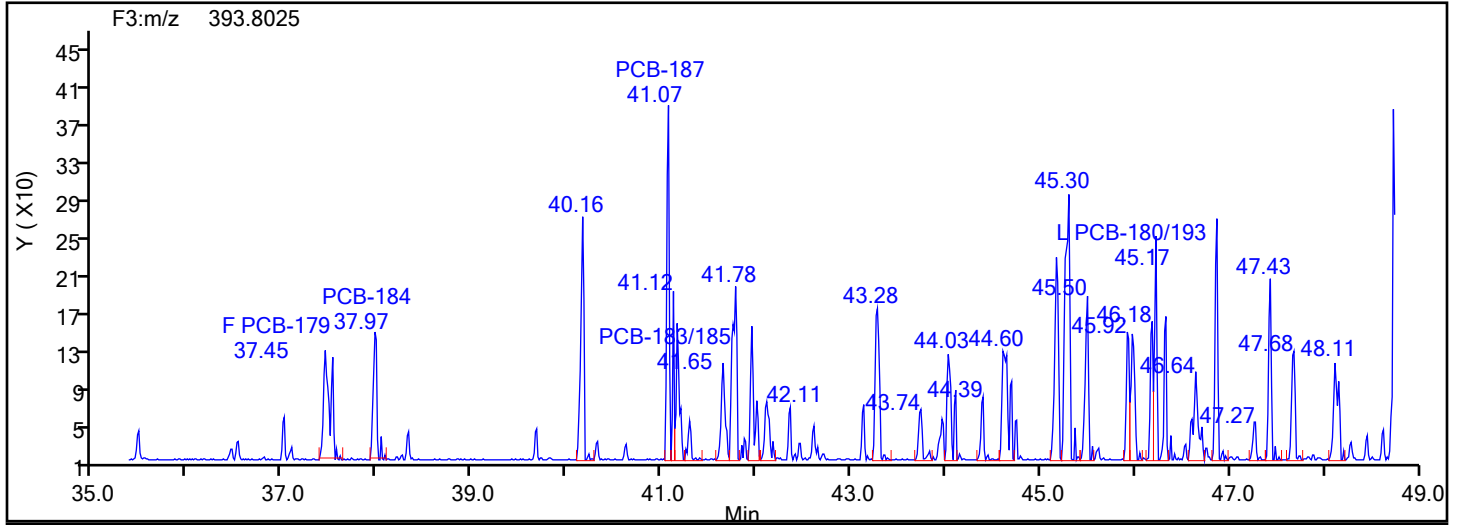


## HpPCB F3 Standards

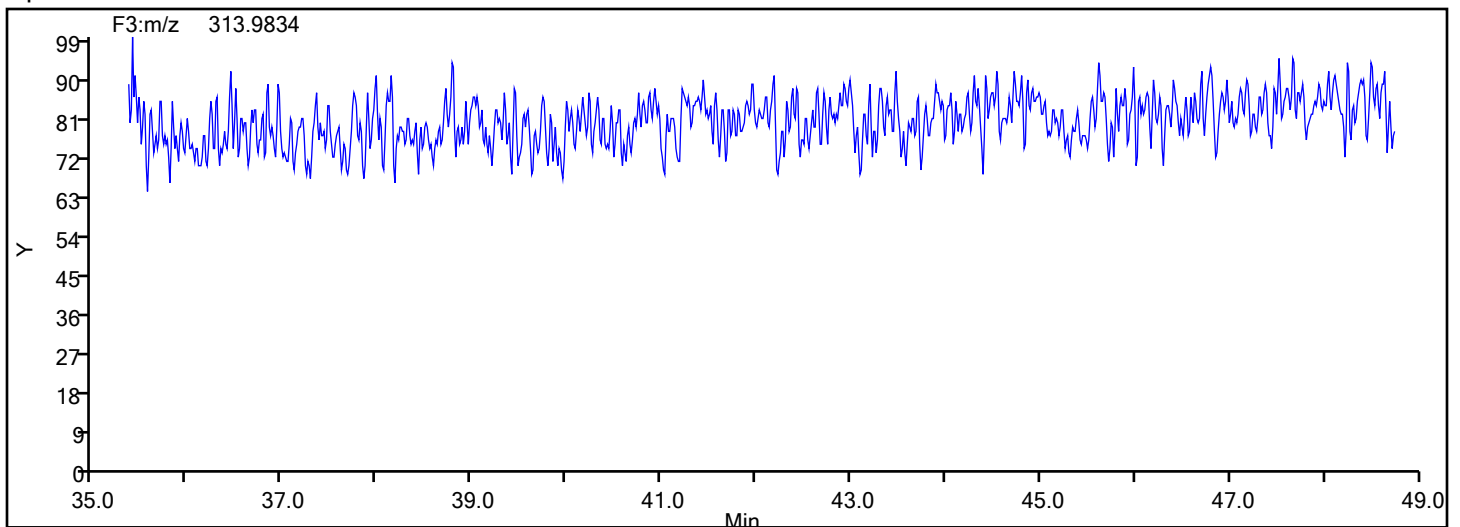


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

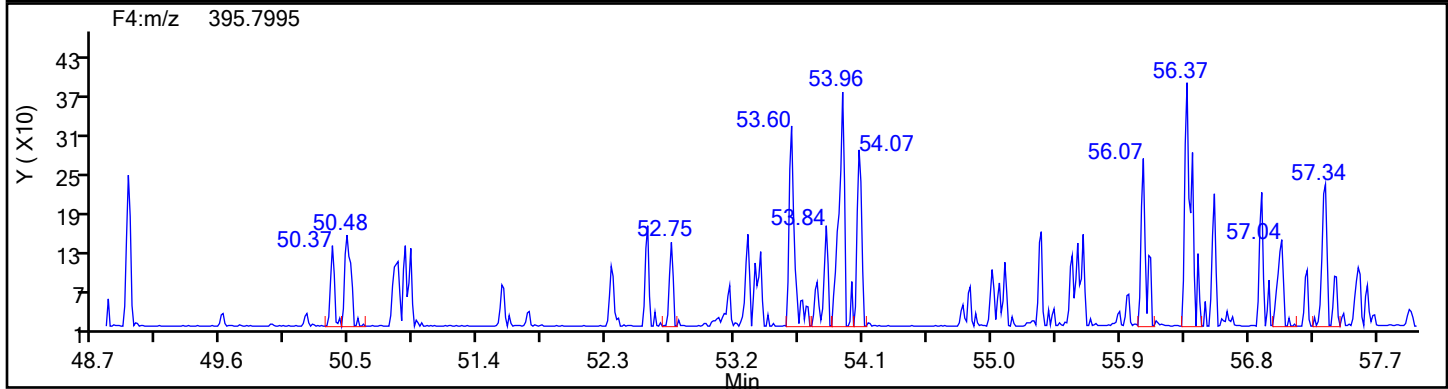
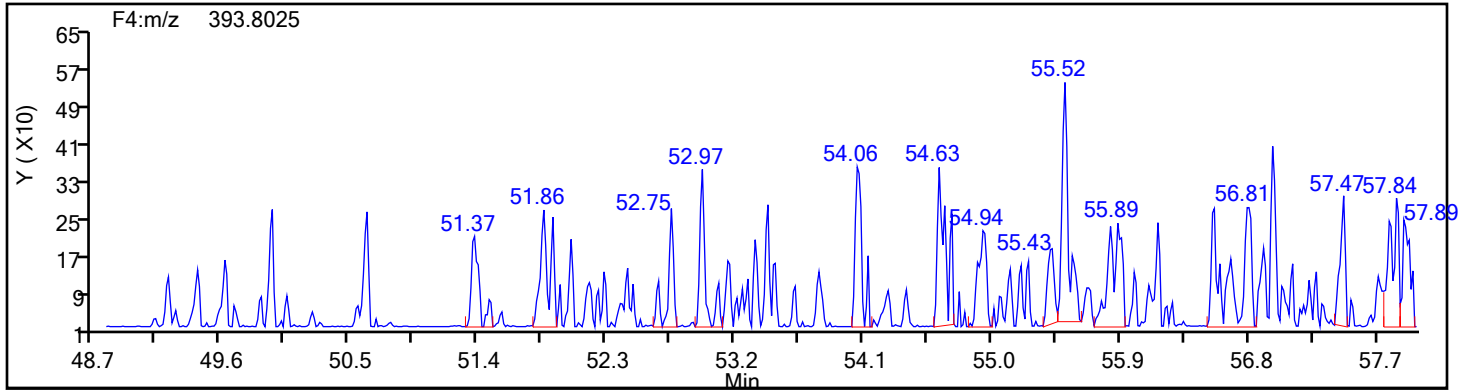


## HpPCB F3 Lock Mass

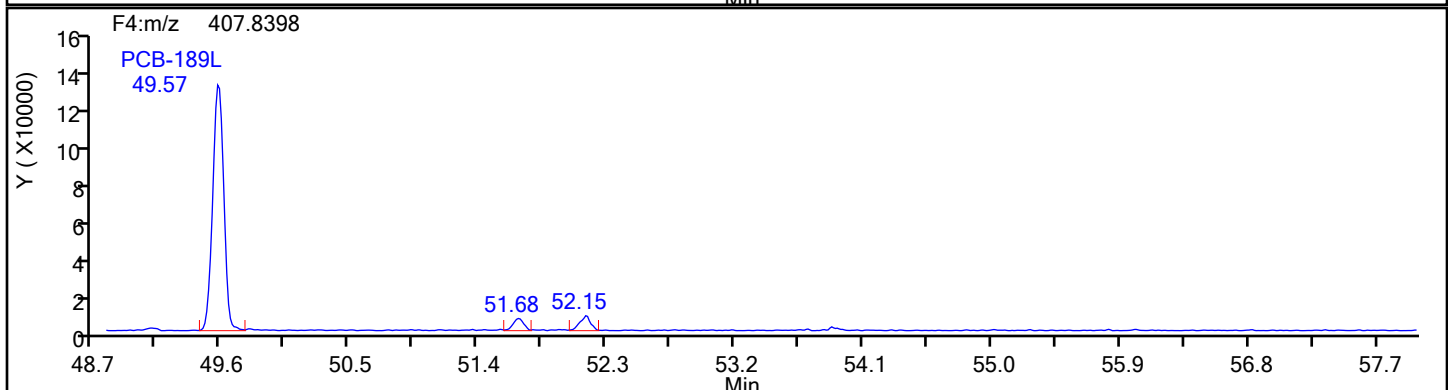
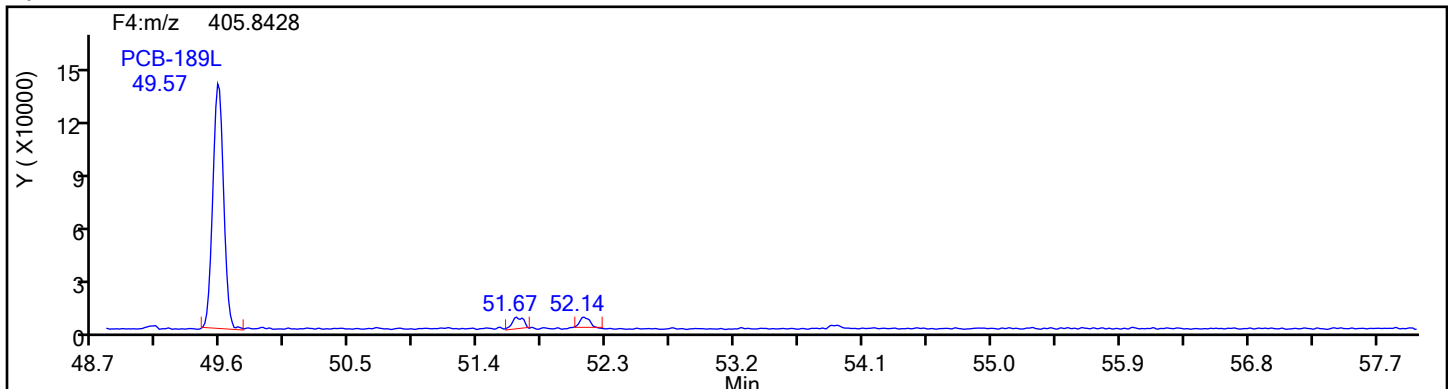


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

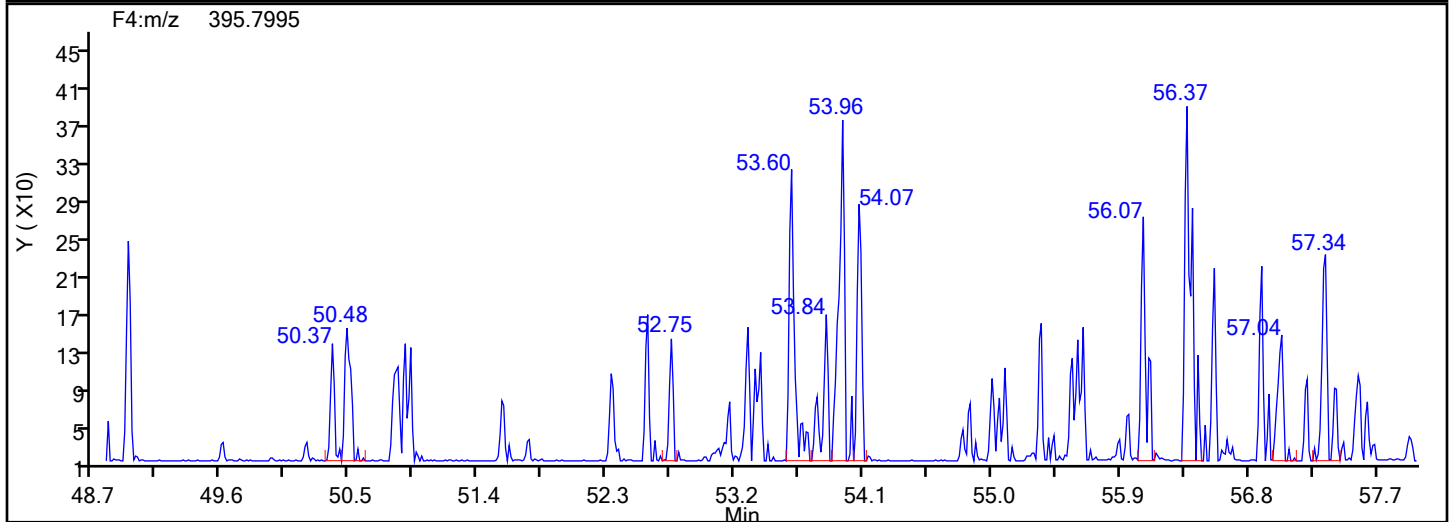
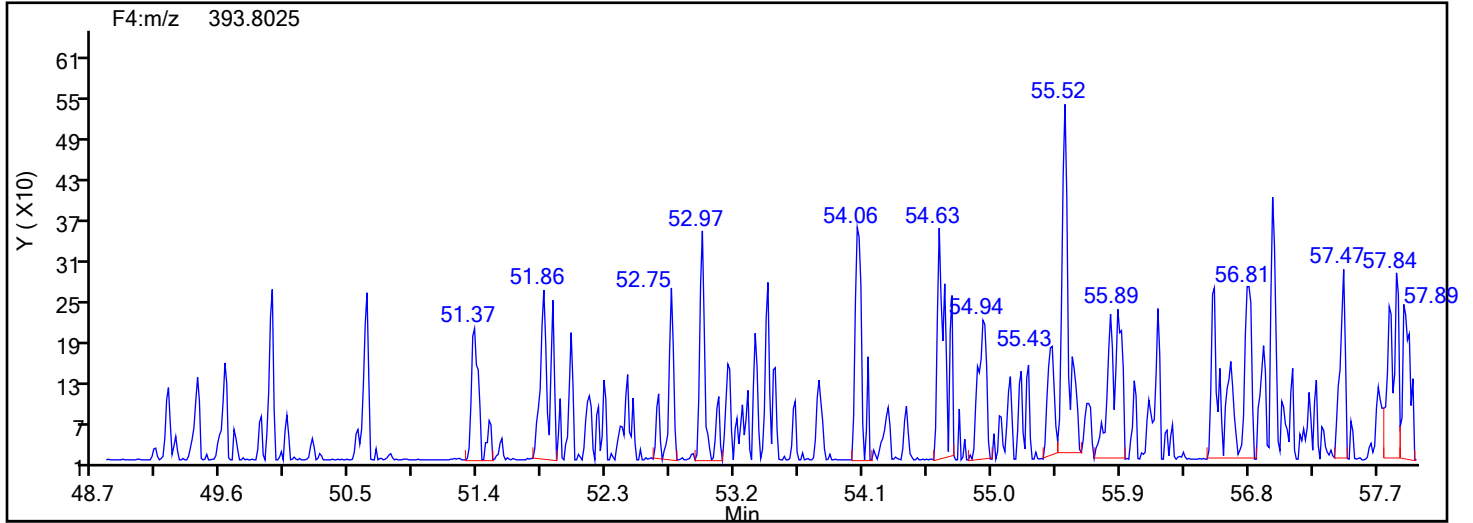


## HpPCB F4 Standards

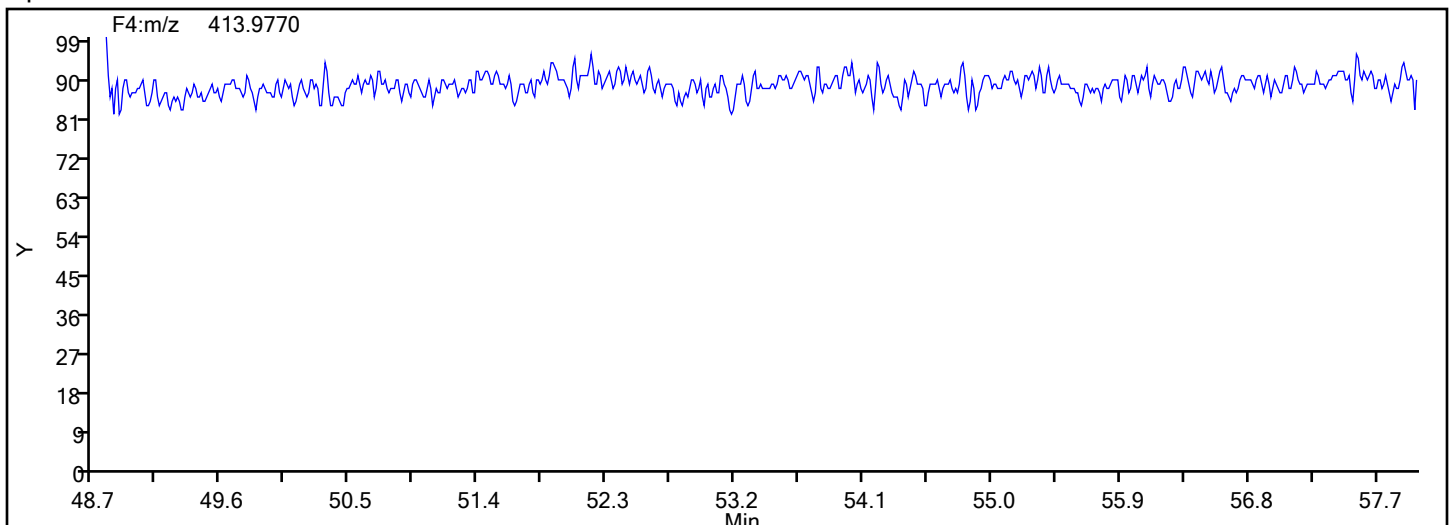


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

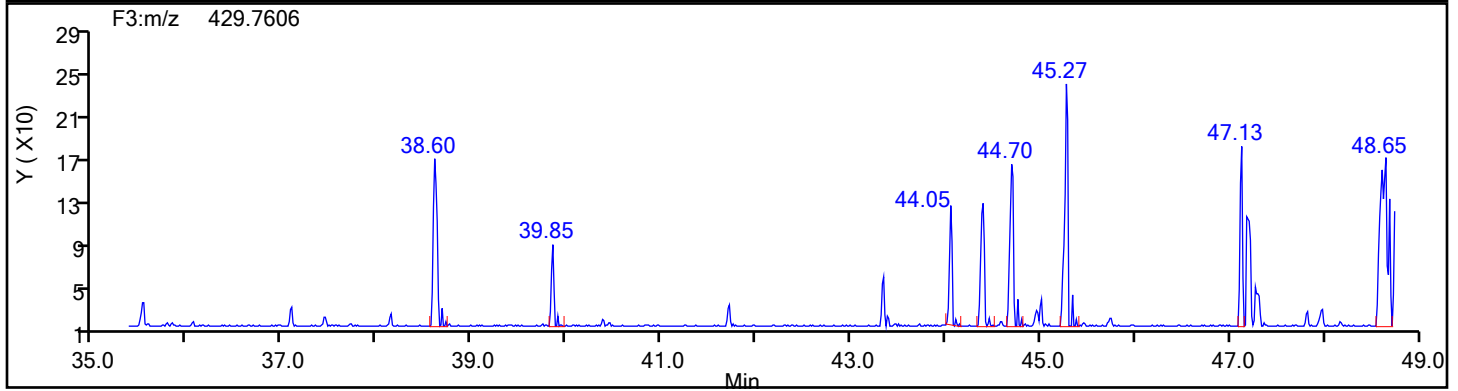
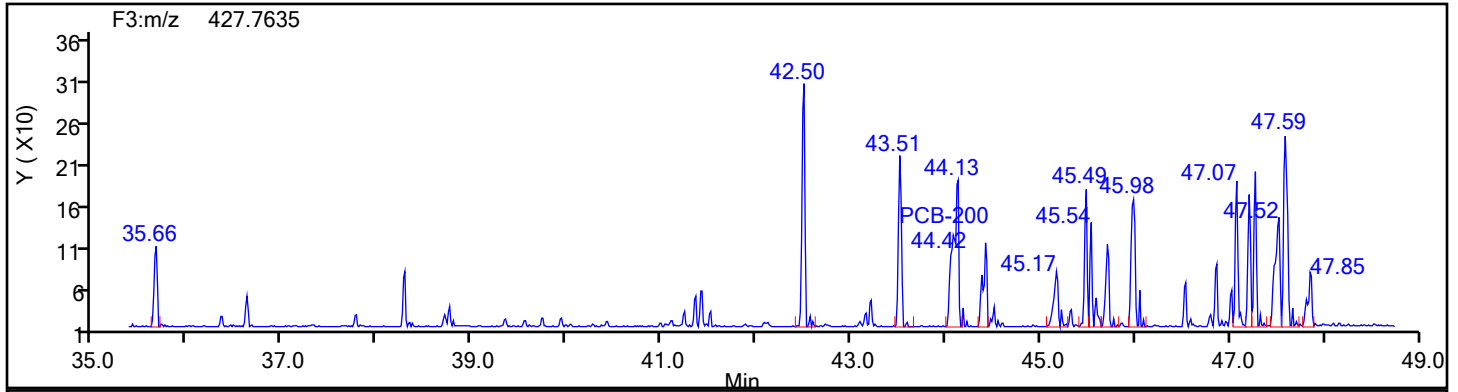


## HpPCB F4 Lock Mass

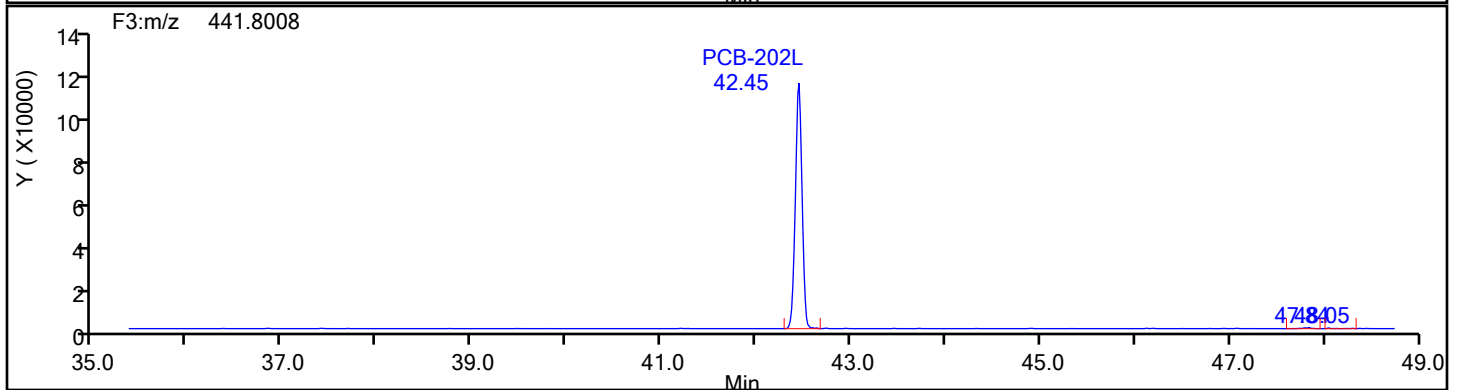
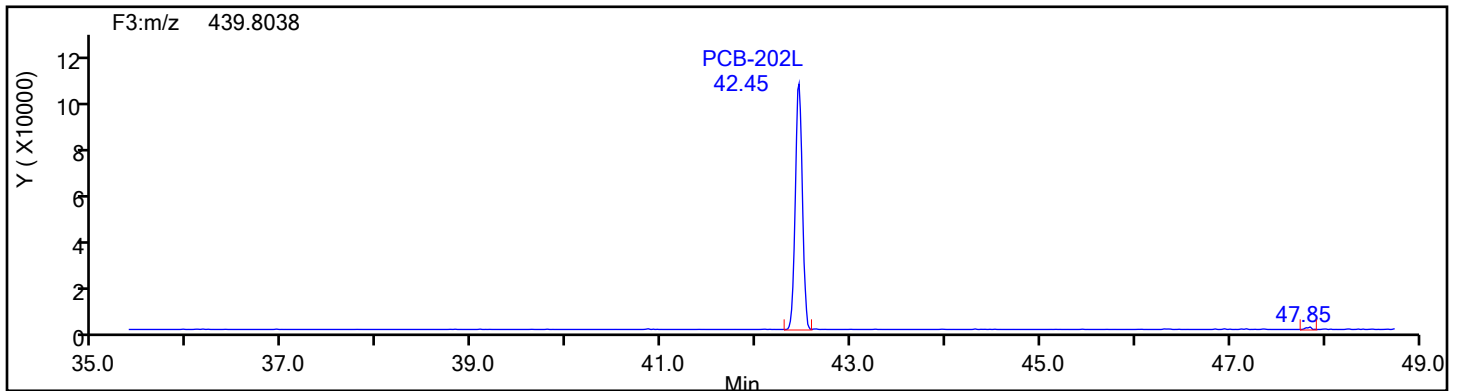


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3



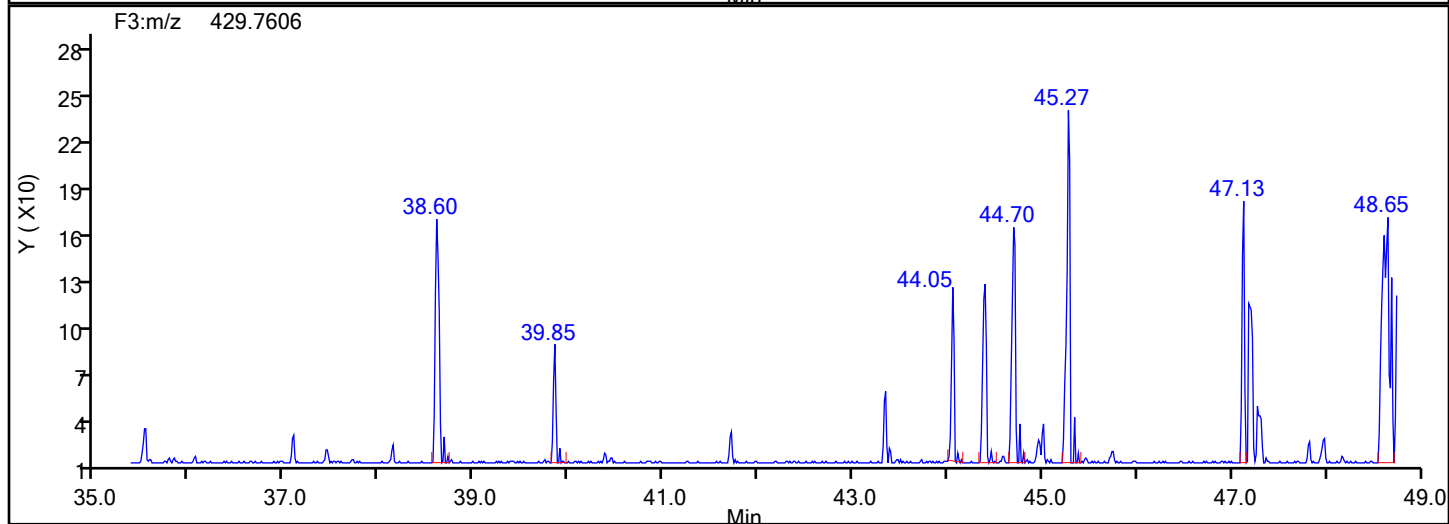
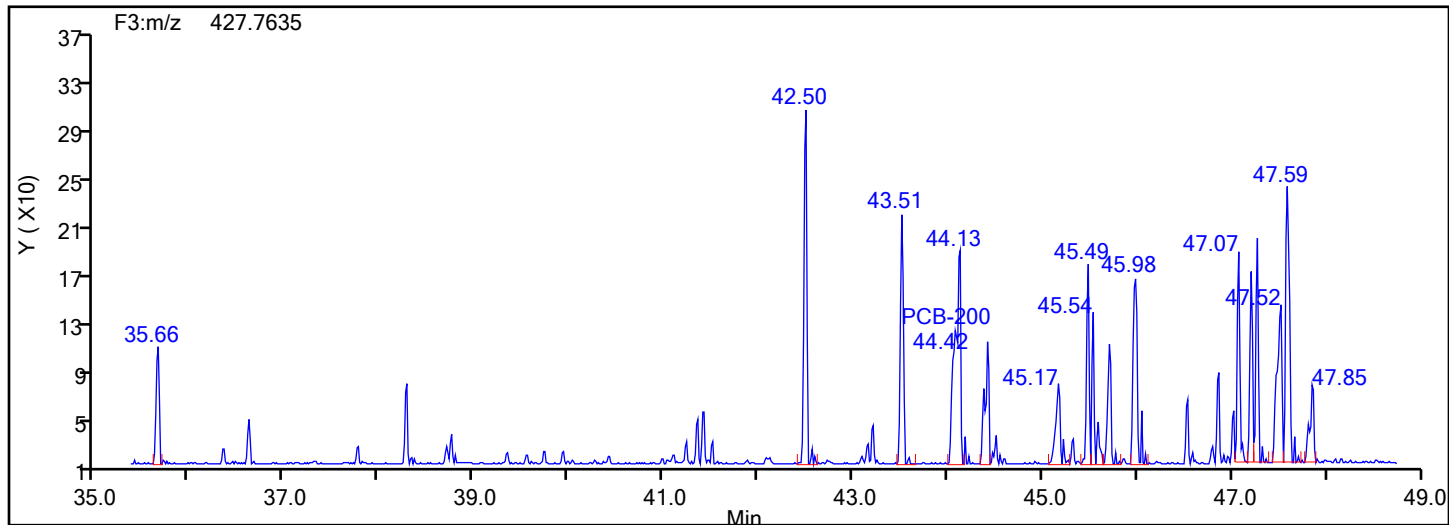
## OcPCB F3 Standards



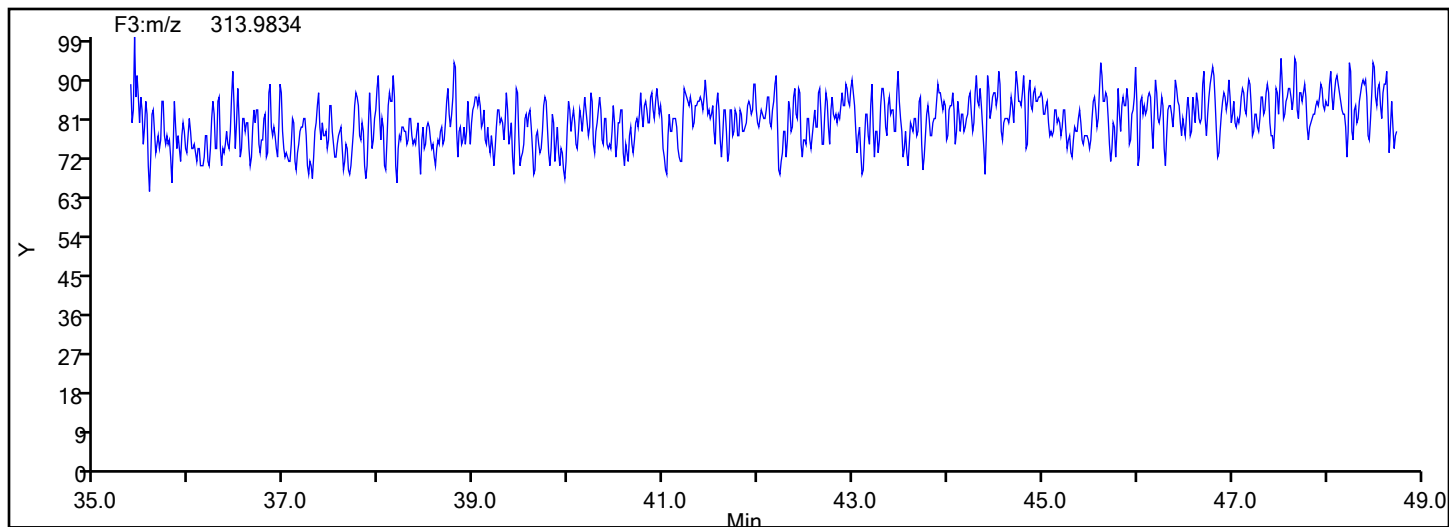


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

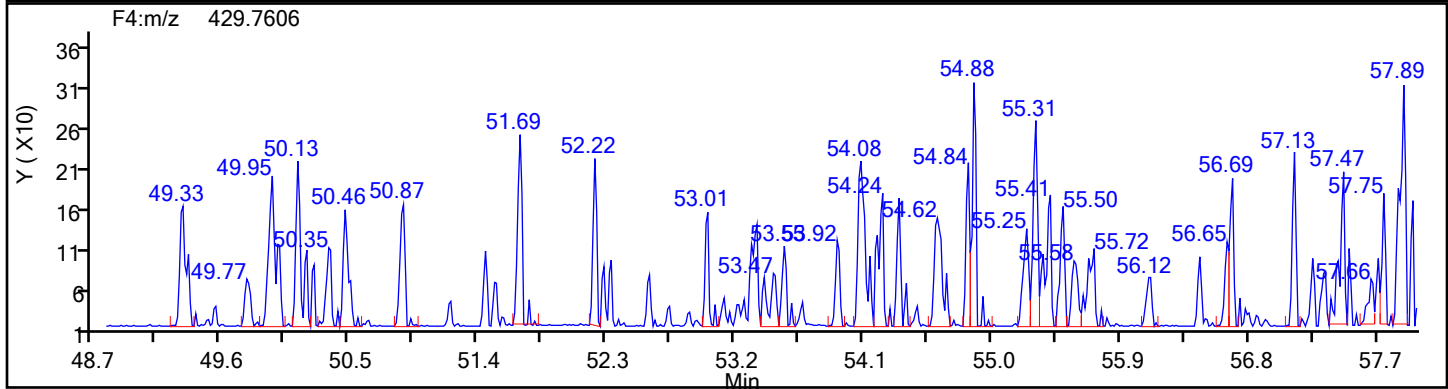
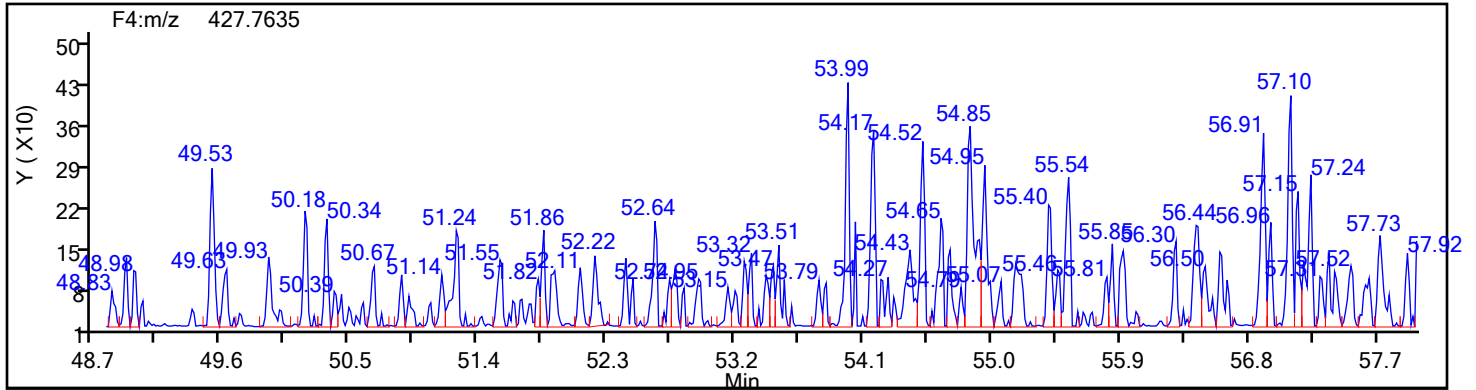


## OcPCB F3 Lock Mass

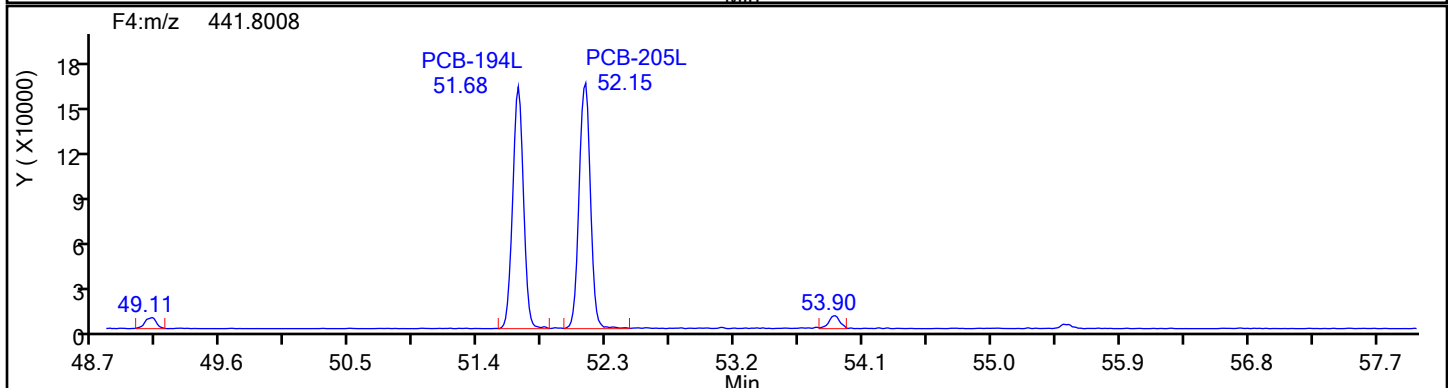
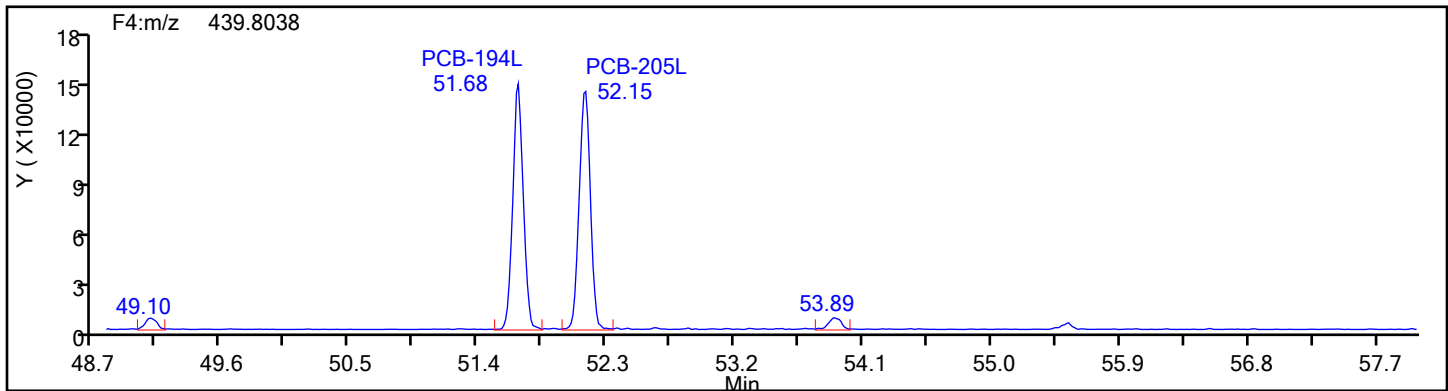


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

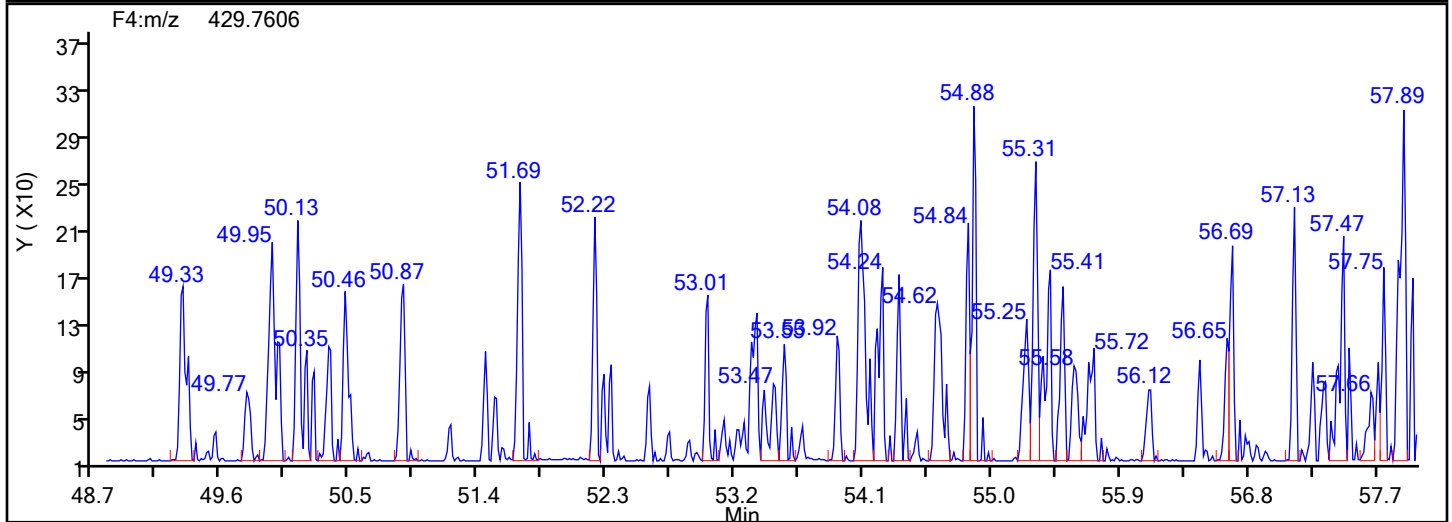
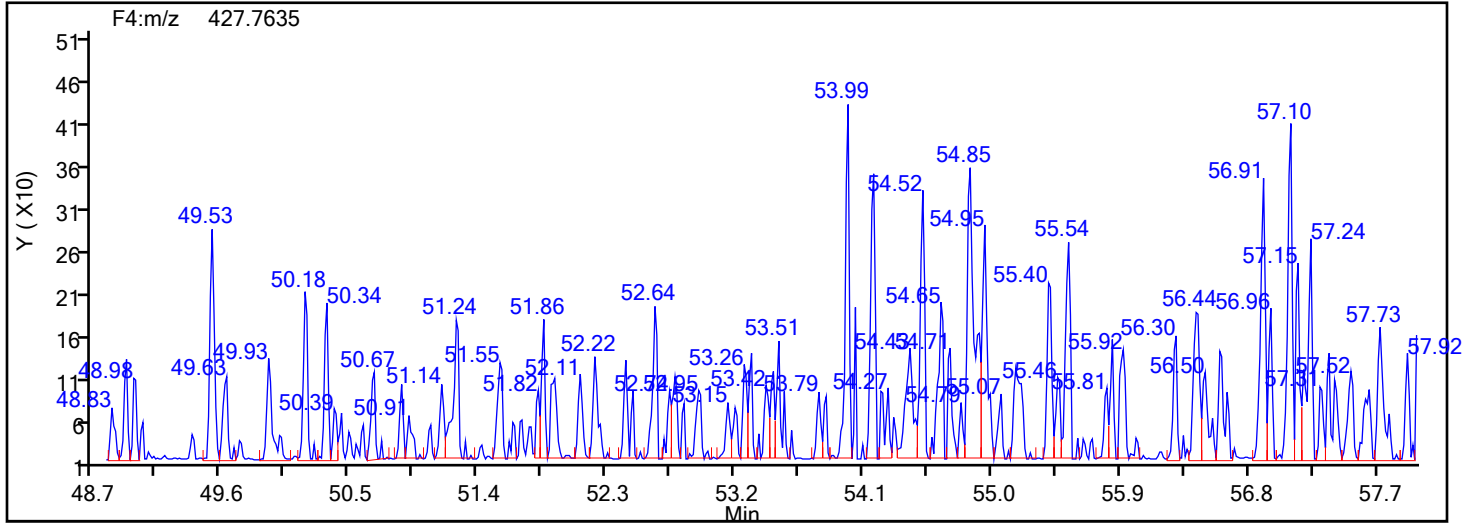


## OcPCB F4 Standards

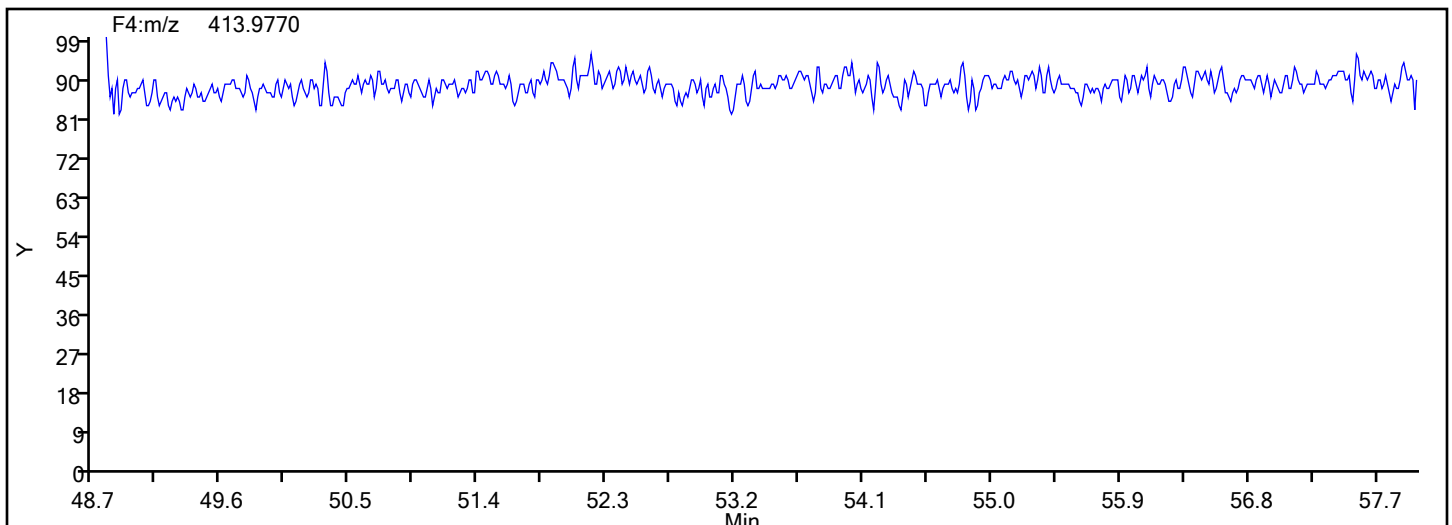


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d  
Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

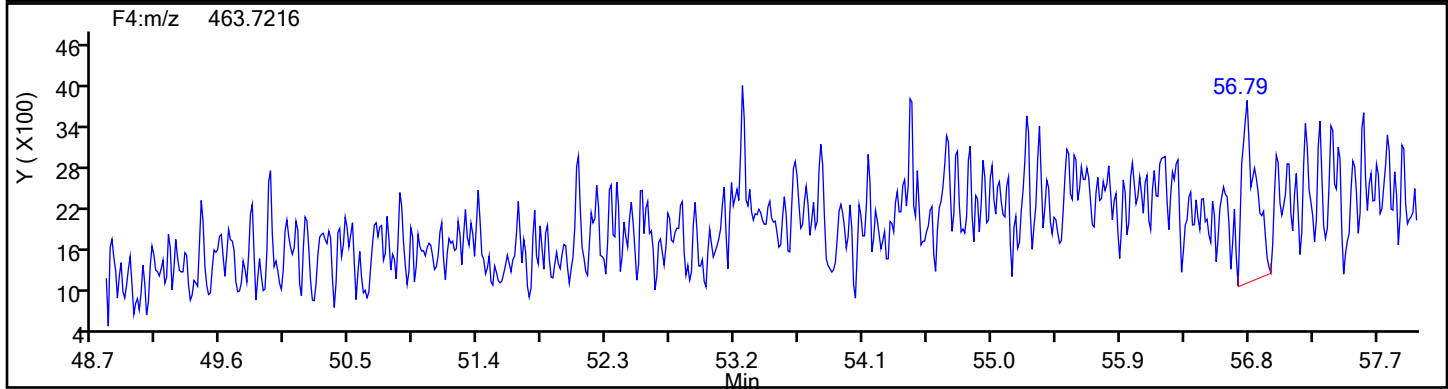
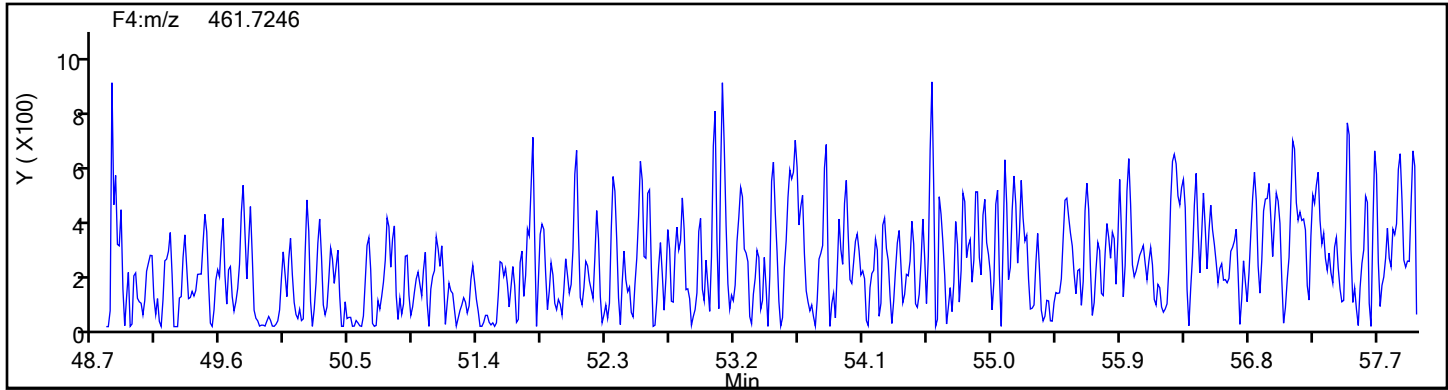


## OcPCB F4 Lock Mass

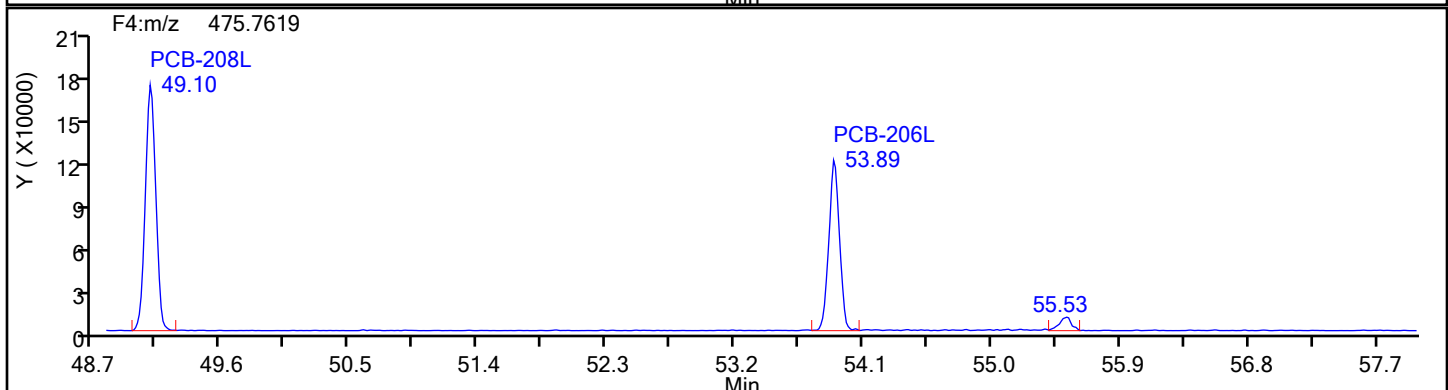
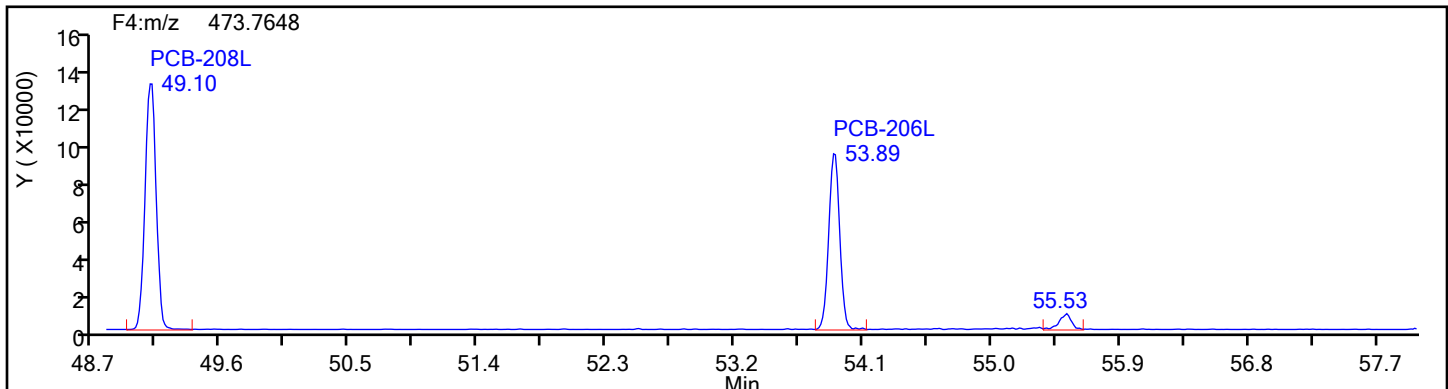


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d  
Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

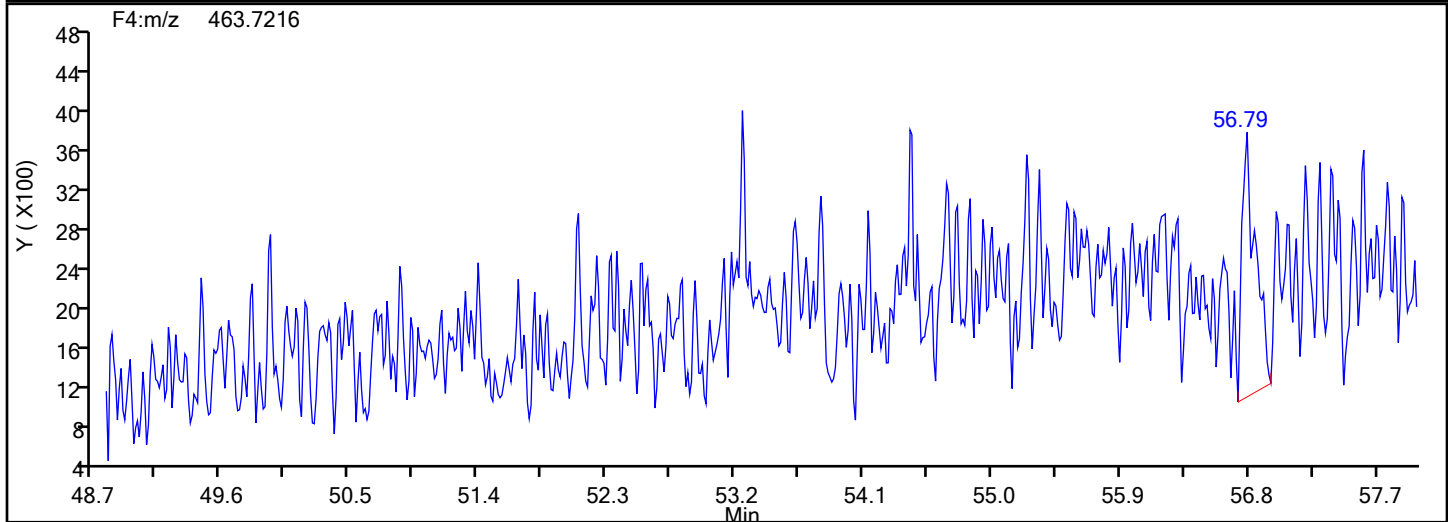
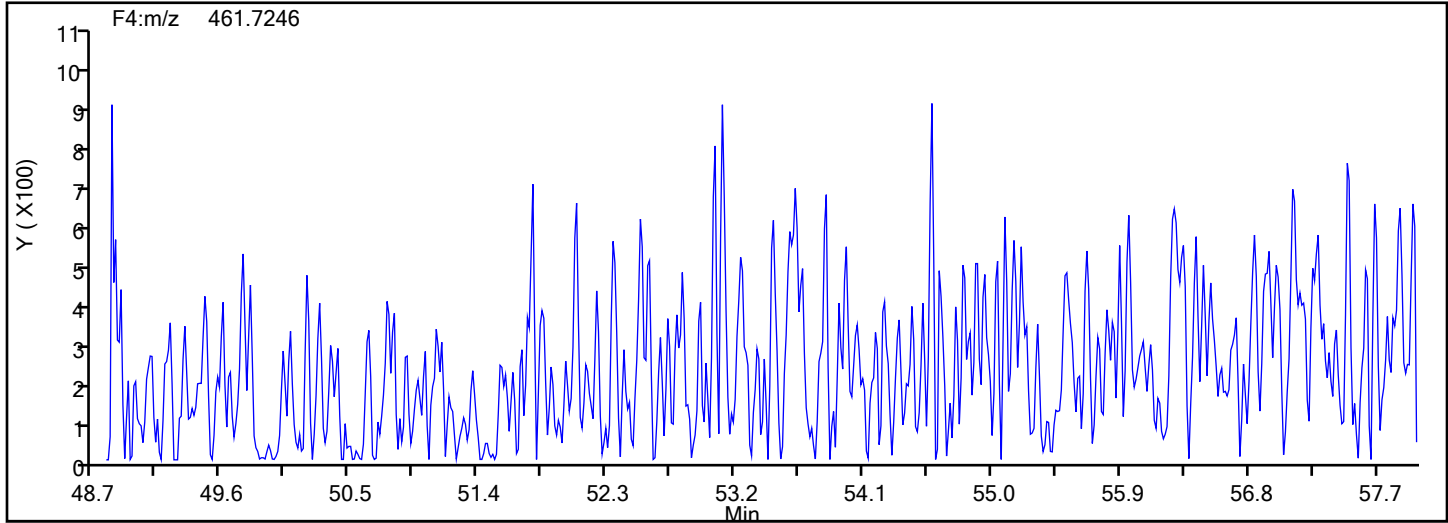


## NoPCB F4 Standards

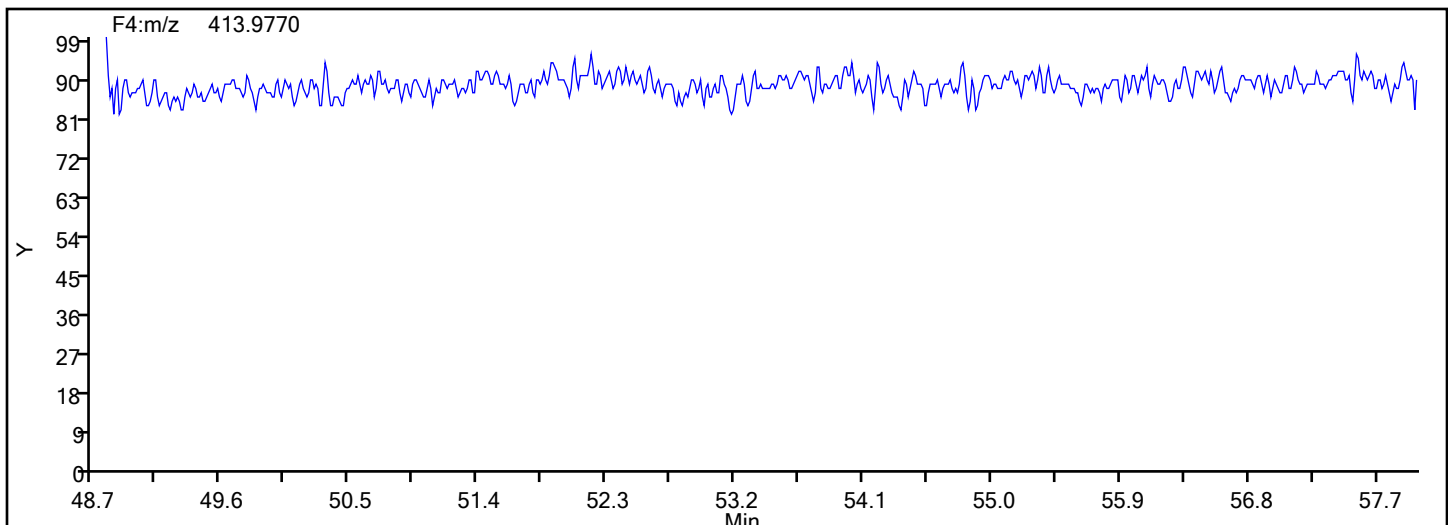


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d  
Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

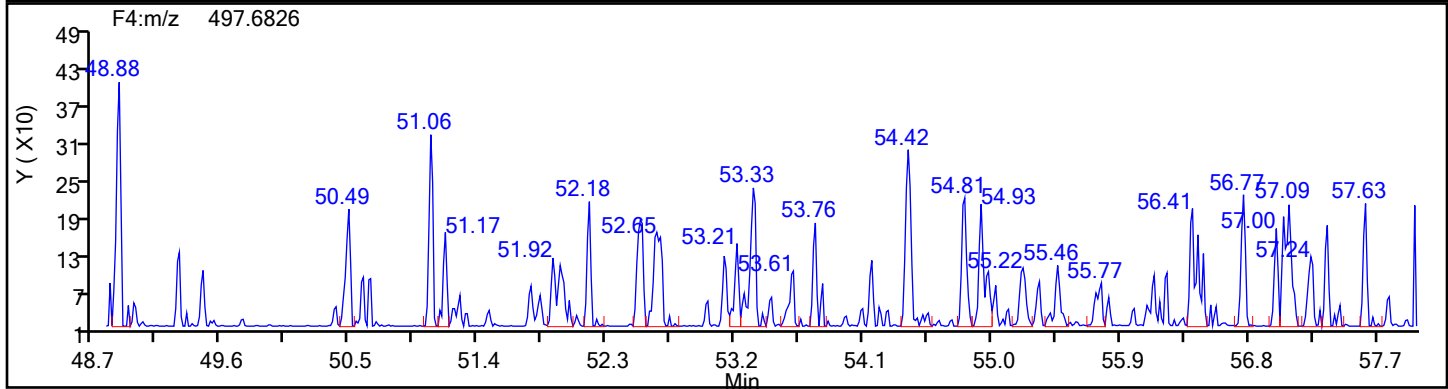
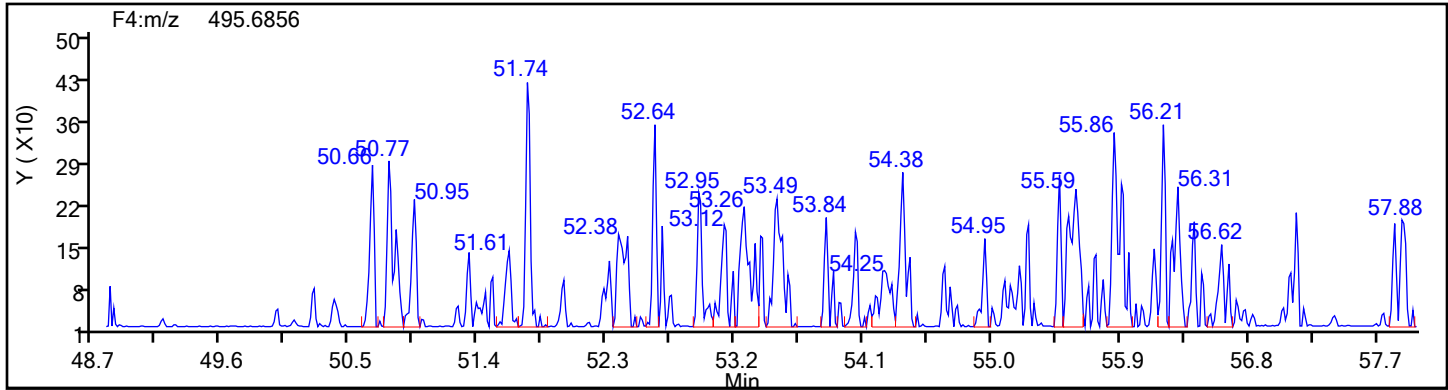


## NoPCB F4 Lock Mass

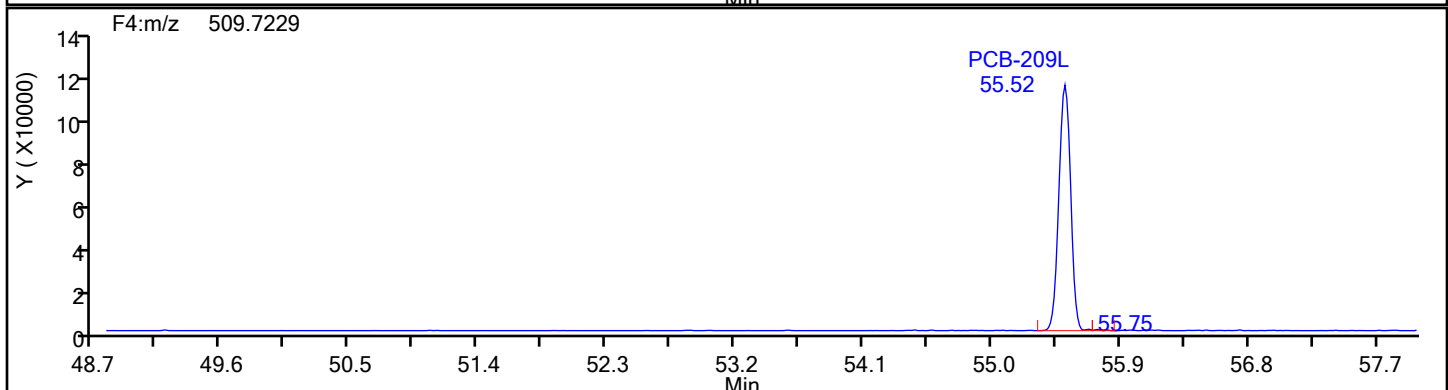
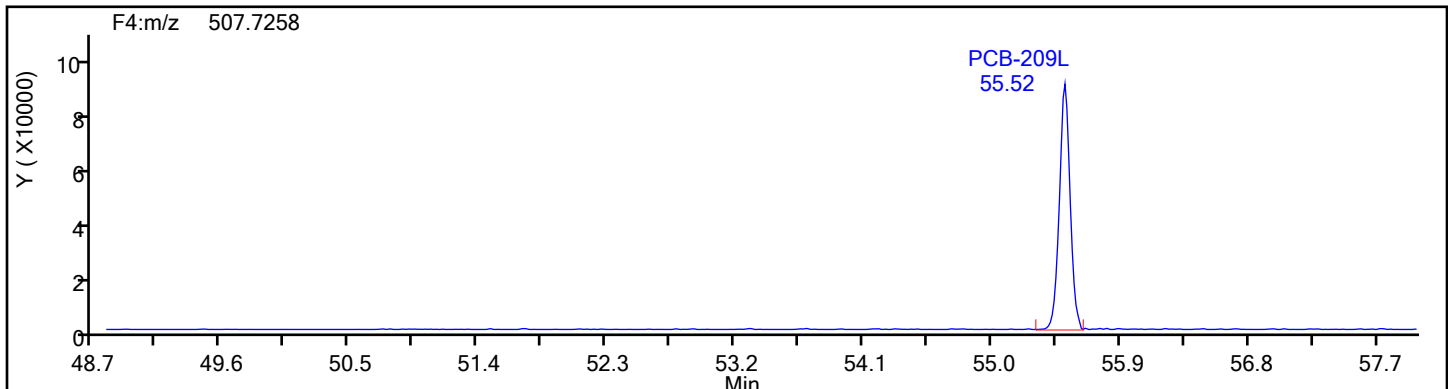


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d  
Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4

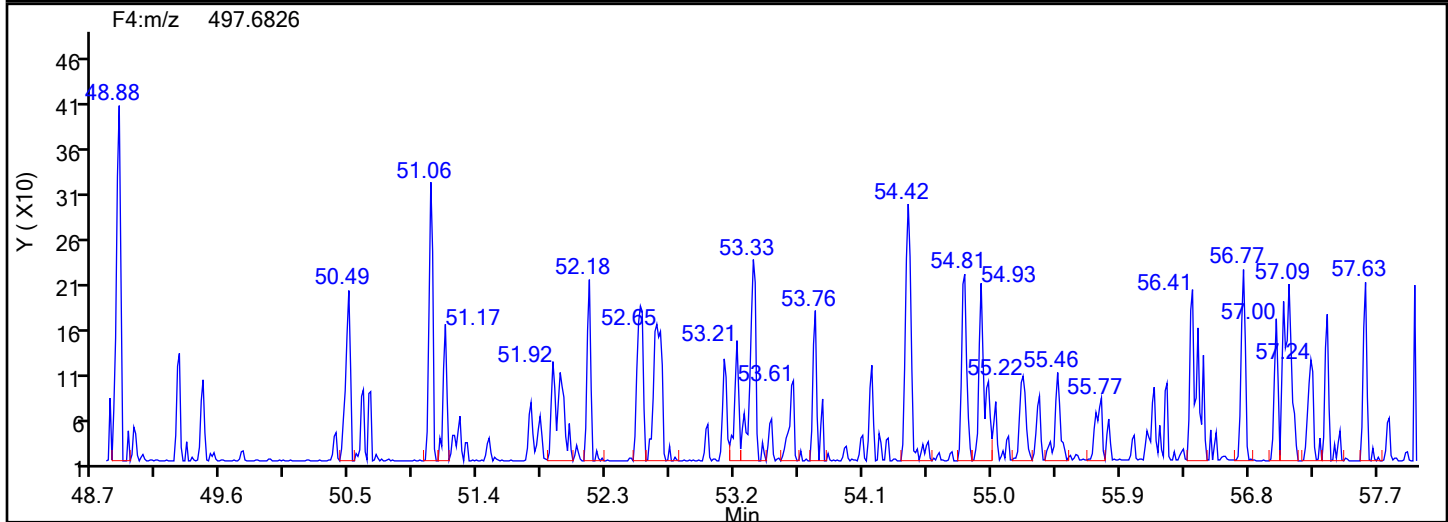
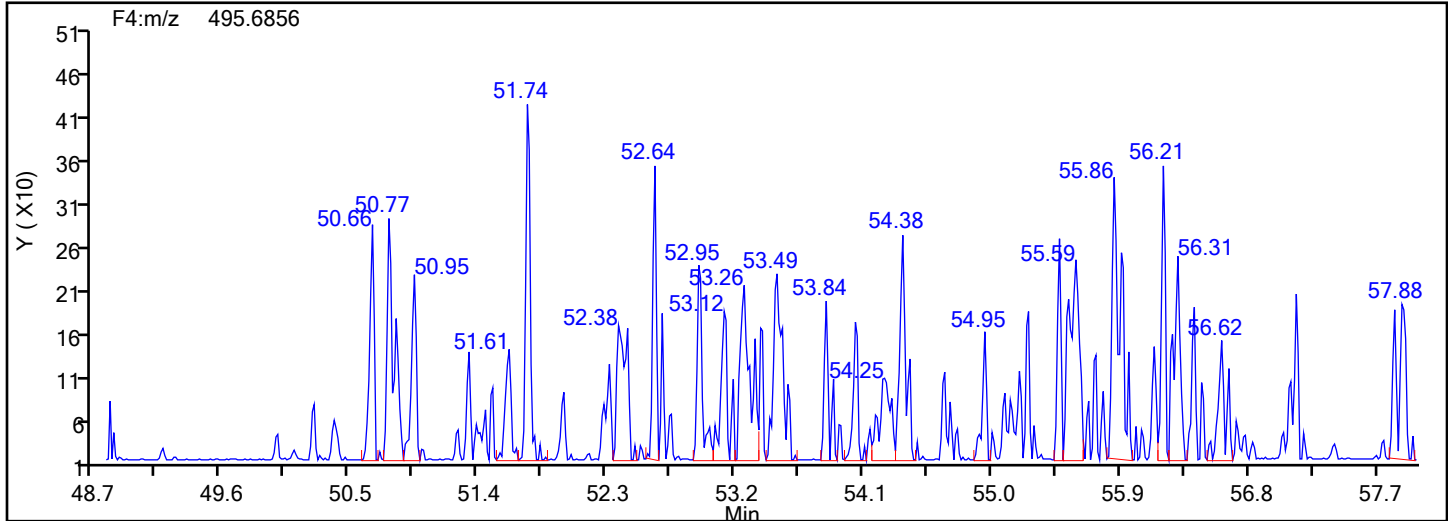


## DePCB F4 Standards

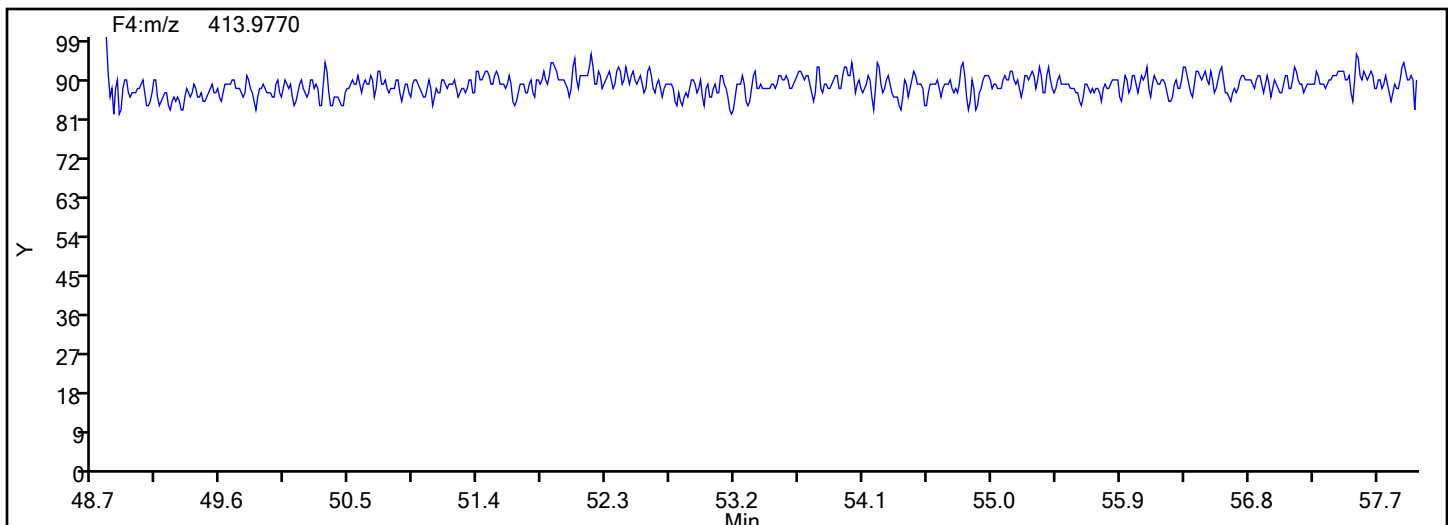


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d  
Injection Date: 28-Jun-2024 13:48:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Worklist#: 88219 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-3-c5x.d  
Lims ID: 140-36940-A-3-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 3-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 13:48:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-007  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 15:22:09 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 15:22:09

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	6.58	98.66
PCB-28L	100.0	16.6	83.16
PCB-79L	33.3	6.93	103.91
PCB-95L	33.3	7.16	107.40
PCB-111L	100.0	17.6	88.06
PCB-153L	33.3	6.84	102.57
PCB-178L	100.0	17.3	86.64



FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN 4-COMBINED</u>	Lab Sample ID: <u>140-36940-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-4-e.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/16/2024 17:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/02/2024 19:57</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88362</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	5.65	J q	30.0	6.60	0.827
37680-65-2	PCB-18	2.21	J q C	30.0	14.3	0.141
7012-37-5	PCB-28	1.98	J q C20	30.0	12.6	0.310
41464-39-5	PCB-44	7.55	J q C	45.0	19.5	0.309
35693-99-3	PCB-52	2.31	J	15.0	6.60	0.327
32598-10-0	PCB-66	1.21	J q	15.0	6.00	0.239
32598-13-3	PCB-77	0.975	J q	15.0	6.30	0.279
70362-50-4	PCB-81	ND		15.0	4.80	0.277
37680-73-2	PCB-101	1.27	J q C90	45.0	19.5	0.111
32598-14-4	PCB-105	0.471	J q	15.0	5.10	0.182
74472-37-0	PCB-114	ND		15.0	8.25	0.202
31508-00-6	PCB-118	1.01	J	15.0	9.15	0.178
65510-44-3	PCB-123	ND		15.0	8.55	0.209
57465-28-8	PCB-126	ND		15.0	6.15	0.204
38380-07-3	PCB-128	ND	C	30.0	10.2	0.00858
35065-28-2	PCB-138	0.323	J q C129	60.0	25.5	0.00891
35065-27-1	PCB-153	0.456	J C	30.0	12.5	0.00771
38380-08-4	PCB-156	ND	C	30.0	12.8	0.00951
69782-90-7	PCB-157	ND	C156	30.0	12.8	0.00951
52663-72-6	PCB-167	ND		15.0	9.00	0.00623
32774-16-6	PCB-169	ND		15.0	6.15	0.00609
35065-30-6	PCB-170	ND		15.0	6.60	0.0120
35065-29-3	PCB-180	ND	C	30.0	10.2	0.00929
52663-68-0	PCB-187	ND		15.0	6.30	0.00985
39635-31-9	PCB-189	ND		15.0	7.35	0.134
52663-78-2	PCB-195	ND		15.0	7.95	0.0773
40186-72-9	PCB-206	ND		15.0	8.55	1.14
2051-24-3	PCB-209	ND		15.0	6.90	0.0110

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>4-COMBINED</u>	Lab Sample ID: <u>140-36940-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-4-e.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/16/2024 17:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>07/02/2024 19:57</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88362</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	105		20-145
208263-77-8	PCB-3L	105		20-145
234432-86-1	PCB-4L	98		20-145
208263-67-6	PCB-15L	108		20-145
234432-87-2	PCB-19L	95		20-145
208263-79-0	PCB-37L	103		20-145
234432-88-3	PCB-54L	110		20-145
105600-23-5	PCB-77L	106		20-145
208461-24-9	PCB-81L	110		20-145
234432-89-4	PCB-104L	101		20-145
208263-62-1	PCB-105L	109		20-145
208263-63-2	PCB-114L	102		20-145
104130-40-7	PCB-118L	103		20-145
208263-64-3	PCB-123L	102		20-145
208263-65-4	PCB-126L	109		20-145
234432-90-7	PCB-155L	106		20-145
208263-68-7	PCB-156L	105	C	20-145
235416-30-5	PCB-157L	105	C156	20-145
208263-69-8	PCB-167L	101		20-145
208263-70-1	PCB-169L	103		20-145
160901-80-4	PCB-170L	101		20-145
234432-91-8	PCB-188L	100		20-145
208263-73-4	PCB-189L	119		20-145
105600-26-8	PCB-202L	101		20-145
234446-64-1	PCB-205L	102		20-145
208263-75-6	PCB-206L	105		20-145
234432-92-9	PCB-208L	106		20-145
105600-27-9	PCB-209L	108		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-4  
4-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-4-e.d  
Analysis Method: 23 Date Collected: 05/16/2024 17:00  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 07/02/2024 19:57  
Con. Extract Vol.: 30 (mL) Dilution Factor: 1  
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88362 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	89		20-130
235416-29-2	PCB-111L	91		20-130
232919-67-4	PCB-178L	91		20-130
STL01600	PCB-8L	97		70-130
STL01603	PCB-79L	101		70-130
STL01604	PCB-95L	114		70-130
STL01606	PCB-153L	96		70-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
 Lims ID: 140-36940-A-4-E  
 Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
 Sample Type: Client  
 Inject. Date: 02-Jul-2024 19:57:00 ALS Bottle#: 0 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033352-006  
 Operator ID: Xcalibur\_System Instrument ID: D2D  
 Method: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\PCBs\_D2D.m  
 Limit Group: HR - EPA\_23 PCB ICAL  
 Last Update: 02-Jul-2024 21:38:55 Calib Date: 31-May-2024 21:13:00  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
 Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
 Process Host: CTX1606

First Level Reviewer: V4XA

Date: 02-Jul-2024 21:38:55

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					318.0	318.0	0.0654	0.0654		
D PCB-1L	11:38	10420933	3.08	1.6108	107.1	107.1	1.081	1.081	105	
D PCB-3L	13:47	10250727	3.30	1.5891	106.8	106.8	1.096	1.096	105	
PCB-1	11:39	3188163	3.15	1.2191	25.6	25.6	0.0582	0.0582		
PCB-2	13:37	18933281	3.14	1.1805	158.3	158.3	0.0663	0.0663		
PCB-3	13:48	16455932	3.19	1.2206	134.2	134.2	0.0716	0.0716		
S Total Dichlorobiphenyls					21.4	21.1	0.0638	0.0638		RQ
D PCB-4L	14:02	3900527	1.60	0.6475	99.7	99.7	0.2227	0.2227	97.79	
* PCB-9L	15:59	6159928	1.60		102.0	102.0				
\$ PCB-8L	16:50	3216721	1.59	1.2066	49.2	49.2	0.1413	0.1413	97.09	
D PCB-15L	19:55	7155412	1.61	1.0789	109.8	109.8	0.1336	0.1336	108	
PCB-4	14:03	14531	1.56	1.2818	0.3371	0.2964	0.0793	0.0793		RQ
PCB-10	14:13	92693	1.68	1.3149	1.301	1.301	0.0666	0.0666		
PCB-9	16:01	8305	1.56	1.4224	0.1329	0.1077	0.0616	0.0616		RQM
PCB-7	16:10	1161304	1.60	1.4134	15.2	15.2	0.0619	0.0619		
PCB-6	16:24	27331	1.56	1.5421	0.3613	0.3270	0.0568	0.0568		RQ
PCB-5	16:43	10343	1.56	1.3395	0.1425	0.1425	0.0654	0.0654		nM
PCB-8	16:50	32447	1.56	1.5889	0.4134	0.3768	0.0551	0.0551		RQM
PCB-14	18:27	75750	1.43	1.4025	0.997	0.997	0.0624	0.0624		
PCB-11	19:18	128275	1.69	1.2951	1.828	1.828	0.0676	0.0676		
PCB-12	19:39	32870	1.56	1.3358	0.6134	0.4540	0.0655	0.0655		RQ
PCB-13 (C12)	19:39	32870	1.56	1.3358	0.6134	0.4540	0.0655	0.0655		RQ
PCB-15	19:57	13219	1.49	1.2903	0.1460	0.1460	0.0596	0.0596		nM
S Total Trichlorobiphenyls					5.186	3.389	0.0177	0.0177		RQ
D PCB-19L	17:08	2486815	1.07	0.6285	97.1	97.1	0.9157	0.9157	95.19	
* PCB-32L	20:24	4156430	1.05		102.0	102.0				
* PCB-31L	22:39	11722496	1.06		102.0	102.0				
\$ PCB-28L	22:55	10975433	1.06	1.0494	91.0	91.0	0.1131	0.1131	89.22	
D PCB-37L	26:55	10598747	1.08	0.8749	105.4	105.4	0.1357	0.1357	103	
PCB-19	17:10	5791	1.04	1.2809	0.4434	0.1854	0.0129	0.0129		RQ
PCB-18	19:01	6335	1.04	1.7652	0.1929	0.1472	0.009373	0.009373		RQa
PCB-30 (C18)	19:01	6335	1.04	1.7652	0.1929	0.1472	0.009373	0.009373		RQa
PCB-17	19:25	5204	1.01	1.2430	0.1717	0.1717	0.0133	0.0133		
PCB-27	19:37	25545	1.04	1.8327	0.8654	0.5717	0.009028	0.009028		RQM

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:45	56027	1.04	1.6777	1.773	1.370	0.009862	0.009862		RQM
PCB-16	19:54	4576	1.04	1.1286	0.2803	0.1663	0.0147	0.0147		RQM
PCB-32	20:23	4217	1.04	1.8324	0.1089	0.0944	0.009029	0.009029		RQ
PCB-34	21:40						0.0214	0.0214		
PCB-23	21:49						0.0224	0.0224		
PCB-26	22:07	8404	1.04	1.1255	0.0865	0.0719	0.0215	0.0215		RQM
PCB-29 (C26)	22:07	8404	1.04	1.1255	0.0865	0.0719	0.0215	0.0215		RQM
PCB-25	22:22						0.0190	0.0190		
PCB-31	22:39	16737	0.96	1.1532	0.1397	0.1397	0.0210	0.0210		
PCB-20	22:56	16072	1.04	1.1718	0.1448	0.1320	0.0206	0.0206		RQM
PCB-28 (C20)	22:56	16072	1.04	1.1718	0.1448	0.1320	0.0206	0.0206		RQM
PCB-21	23:11	18098	1.04	1.0746	0.1753	0.1621	0.0225	0.0225		RQM
PCB-33 (C21)	23:11	18098	1.04	1.0746	0.1753	0.1621	0.0225	0.0225		RQM
PCB-22	23:29	12984	1.04	1.1932	0.7319	0.1047	0.0203	0.0203		RQa
PCB-36	25:10						0.0219	0.0219		
PCB-39	25:31						0.0209	0.0209		
PCB-38	26:06						0.0223	0.0223		
PCB-35	26:34						0.0214	0.0214		
PCB-37	26:57	8535	0.93	1.1435	0.0718	0.0718	0.0212	0.0212		
S Total Tetrachlorobiphenyls					1.725	1.544	0.0182	0.0182		RQ
D PCB-54L	20:14	2545626	0.81	0.5562	112.3	112.3	0.3707	0.3707	110	
* PCB-52L	24:46	5109645	0.82		102.0	102.0				
\$ PCB-79L	32:40	3576581	0.80	1.0018	51.3	51.3	0.4045	0.4045	101	
D PCB-81L	33:40	7025295	0.81	1.2470	112.5	112.5	0.3978	0.3978	110	
D PCB-77L	34:13	7157837	0.82	1.3212	108.2	108.2	0.3754	0.3754	106	
PCB-54	20:16						0.003408	0.003408		
PCB-50	22:25						0.0234	0.0234		
PCB-53 (C50)	22:25						0.0234	0.0234		
PCB-45	23:08	22966	0.77	0.8264	0.4837	0.3997	0.0242	0.0242		RQ
PCB-51 (C45)	23:08	22966	0.77	0.8264	0.4837	0.3997	0.0242	0.0242		RQ
PCB-46	23:24						0.0282	0.0282		
PCB-52	24:48	9844	0.76	0.9194	0.1540	0.1540	0.0218	0.0218		M
PCB-43	24:57						0.0194	0.0194		
PCB-73 (C43)	24:57						0.0194	0.0194		
PCB-49	25:17	7117	0.79	1.0685	0.0958	0.0958	0.0188	0.0188		
PCB-69 (C49)	25:17	7117	0.79	1.0685	0.0958	0.0958	0.0188	0.0188		
PCB-48	25:34						0.0239	0.0239		
PCB-44	25:49	34065	0.77	0.9731	0.5565	0.5035	0.0206	0.0206		RQ
PCB-47 (C44)	25:49	34065	0.77	0.9731	0.5565	0.5035	0.0206	0.0206		RQ
PCB-65 (C44)	25:49	34065	0.77	0.9731	0.5565	0.5035	0.0206	0.0206		RQ
PCB-59	26:07						0.0169	0.0169		
PCB-62 (C59)	26:07						0.0169	0.0169		
PCB-75 (C59)	26:07						0.0169	0.0169		
PCB-42	26:19						0.0248	0.0248		
PCB-40	26:49						0.0226	0.0226		
PCB-41 (C40)	26:49						0.0226	0.0226		
PCB-71 (C40)	26:49						0.0226	0.0226		
PCB-64	27:02						0.0170	0.0170		
PCB-72	27:51						0.0183	0.0183		
PCB-68	28:08						0.0160	0.0160		
PCB-57	28:34						0.0185	0.0185		
PCB-58	28:48						0.0151	0.0151		
PCB-67	28:57						0.0141	0.0141		
PCB-63	29:13						0.0178	0.0178		
PCB-61	29:34	10537	0.75	1.2612	0.1202	0.1202	0.0159	0.0159		M
PCB-70 (C61)	29:34	10537	0.75	1.2612	0.1202	0.1202	0.0159	0.0159		M
PCB-74 (C61)	29:34	10537	0.75	1.2612	0.1202	0.1202	0.0159	0.0159		M
PCB-76 (C61)	29:34	10537	0.75	1.2612	0.1202	0.1202	0.0159	0.0159		M
PCB-66	29:52	7049	0.77	1.2583	0.0885	0.0806	0.0159	0.0159		RQ
PCB-55	30:03						0.0151	0.0151		
PCB-56	30:32	6378	0.77	1.2334	0.0839	0.0744	0.0162	0.0162		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:44	3939	0.77	1.1230	0.0628	0.0504	0.0178	0.0178		RQ
PCB-80	31:10						0.0151	0.0151		
PCB-79	32:42						0.0139	0.0139		
PCB-78	33:15						0.0172	0.0172		
PCB-81	33:42						0.0185	0.0185		
PCB-77	34:12	4942	0.77	1.0836	0.0796	0.0650	0.0186	0.0186		RQM
S Total Pentachlorobiphenyls					0.998	0.7845	0.009326	0.009326		RQ
D PCB-104L	25:42	4151890	1.61	1.2161	102.9	102.9	0.0785	0.0785	101	
\$ PCB-95L	28:40	1702147	1.60	0.7218	57.9	57.9	0.0984	0.0984	114	
* PCB-101L	31:35	3383505	1.60		102.0	102.0				
\$ PCB-111L	34:15	4227101	1.67	1.3699	93.0	93.0	0.0697	0.0697	91.20	
D PCB-123L	36:13	7071632	1.62	0.9731	103.9	103.9	1.189	1.189	102	
D PCB-118L	36:32	7419610	1.60	1.0102	105.1	105.1	1.146	1.146	103	
D PCB-114L	37:04	7254804	1.63	0.9949	104.3	104.3	1.163	1.163	102	
D PCB-105L	37:43	7387677	1.58	0.9514	111.1	111.1	1.217	1.217	109	
* PCB-127L	39:11	7131382	1.64		102.0	102.0				
D PCB-126L	40:48	7332850	1.60	0.9439	111.1	111.1	1.226	1.226	109	
PCB-104	25:44						0.007023	0.007023		
PCB-96	26:07						0.006475	0.006475		
PCB-103	28:01						0.008104	0.008104		
PCB-94	28:16						0.009272	0.009272		
PCB-95	28:43	4639	1.40	0.8033	0.1419	0.1419	0.008819	0.008819		M
PCB-93	28:54						0.008405	0.008405		
PCB-100 (C93)	28:54						0.008405	0.008405		
PCB-98	29:04						0.008575	0.008575		
PCB-102 (C98)	29:04						0.008575	0.008575		
PCB-88	29:33	860	1.55	0.8013	0.0394	0.0264	0.008841	0.008841		RQ
PCB-91 (C88)	29:33	860	1.55	0.8013	0.0394	0.0264	0.008841	0.008841		RQ
PCB-84	29:46	1734	1.55	0.7299	0.0625	0.0584	0.009705	0.009705		RQ
PCB-89	30:16						0.009084	0.009084		
PCB-121	30:39						0.005464	0.005464		
PCB-92	31:05	746	1.47	0.8546	0.0214	0.0214	0.008290	0.008290		
PCB-90	31:36	3281	1.55	0.9550	0.0981	0.0844	0.007418	0.007418		RQM
PCB-101 (C90)	31:36	3281	1.55	0.9550	0.0981	0.0844	0.007418	0.007418		RQM
PCB-113 (C90)	31:36	3281	1.55	0.9550	0.0981	0.0844	0.007418	0.007418		RQM
PCB-83	32:13	1305	1.55	0.8385	0.0468	0.0382	0.008448	0.008448		RQM
PCB-99 (C83)	32:13	1305	1.55	0.8385	0.0468	0.0382	0.008448	0.008448		RQM
PCB-112	32:18						0.005020	0.005020		
PCB-86	32:47	1713	1.55	1.0473	0.0609	0.0402	0.006764	0.006764		RQM
PCB-87 (C86)	32:47	1713	1.55	1.0473	0.0609	0.0402	0.006764	0.006764		RQM
PCB-97 (C86)	32:47	1713	1.55	1.0473	0.0609	0.0402	0.006764	0.006764		RQM
PCB-109 (C86)	32:47	1713	1.55	1.0473	0.0609	0.0402	0.006764	0.006764		RQM
PCB-119 (C86)	32:47	1713	1.55	1.0473	0.0609	0.0402	0.006764	0.006764		RQM
PCB-125 (C86)	32:47	1713	1.55	1.0473	0.0609	0.0402	0.006764	0.006764		RQM
PCB-85	33:26	3425	1.53	1.0408	0.0808	0.0808	0.006806	0.006806		M
PCB-116 (C85)	33:26	3425	1.53	1.0408	0.0808	0.0808	0.006806	0.006806		M
PCB-117 (C85)	33:26	3425	1.53	1.0408	0.0808	0.0808	0.006806	0.006806		M
PCB-110	33:37	3893	1.55	1.1919	0.0955	0.0802	0.005944	0.005944		RQM
PCB-115 (C110)	33:37	3893	1.55	1.1919	0.0955	0.0802	0.005944	0.005944		RQM
PCB-82	33:55						0.008531	0.008531		
PCB-111	34:17						0.005842	0.005842		
PCB-120	34:43	4761	1.55	1.4762	0.2005	0.0792	0.004799	0.004799		RQM
PCB-108	35:53						0.0128	0.0128		
PCB-124 (C108)	35:53						0.0128	0.0128		
PCB-107	36:08	2257	1.55	1.2121	0.0359	0.0260	0.0121	0.0121		RQM
PCB-123	36:13	654	1.55	1.0722	0.0127	0.008798	0.0139	0.0139		RQMa
PCB-106	36:21						0.0135	0.0135		
PCB-118	36:35	5882	1.66	1.2055	0.0671	0.0671	0.0118	0.0118		M
PCB-122	36:55						0.0153	0.0153		
PCB-114	37:06						0.0135	0.0135		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:46	2703	1.55	1.1879	0.0348	0.0314	0.0121	0.0121		RQM
PCB-127	39:13						0.0128	0.0128		
PCB-126	40:50						0.0136	0.0136		
S Total Hexachlorobiphenyls					0.1442	0.1043	0.001037	0.001037		RQ
D PCB-155L	31:20	3875320	1.26	1.0851	107.7	107.7	0.0792	0.0792	106	
\$ PCB-153L	38:24	2462712	1.30	0.9169	48.6	48.6	1.112	1.112	95.87	
* PCB-138L	39:40	4422020	1.27		102.0	102.0				
D PCB-167L	42:40	5621874	1.31	1.2572	103.1	103.1	0.8405	0.8405	101	
D PCB-156L	43:49	11255349	1.28	1.2106	214.5	214.5	0.8729	0.8729	105	
D PCB-157L (C156L)	43:49	11255349	1.28	1.2106	214.5	214.5	0.8729	0.8729	105	
D PCB-169L	47:02	5683263	1.30	1.2439	105.4	105.4	0.8496	0.8496	103	
PCB-155	31:22						0.002010	0.002010		
PCB-152	31:35						0.001919	0.001919		
PCB-150	31:45						0.001874	0.001874		
PCB-136	32:08						0.001877	0.001877		
PCB-145	32:24						0.001960	0.001960		
PCB-148	33:55						0.002497	0.002497		
PCB-135	34:30	88	1.24	0.7256	0.009033	0.003192	0.002617	0.002617		RQ
PCB-151 (C135)	34:30	88	1.24	0.7256	0.009033	0.003192	0.002617	0.002617		RQ
PCB-154	34:45						0.002336	0.002336		
PCB-144	35:04						0.002418	0.002418		
PCB-147	35:24	1666	1.24	0.8950	0.0461	0.0337	0.000628	0.000628		RQM
PCB-149 (C147)	35:24	1666	1.24	0.8950	0.0461	0.0337	0.000628	0.000628		RQM
PCB-134	35:44						0.000706	0.000706		
PCB-143 (C134)	35:44						0.000706	0.000706		
PCB-139	36:02						0.000641	0.000641		
PCB-140 (C139)	36:02						0.000641	0.000641		
PCB-131	36:14						0.000749	0.000749		
PCB-142	36:23						0.000749	0.000749		
PCB-132	36:42						0.000751	0.000751		
PCB-133	37:11						0.000694	0.000694		
PCB-165	37:35						0.000549	0.000549		
PCB-146	37:49	322	1.24	0.9637	0.007826	0.006043	0.000583	0.000583		RQ
PCB-161	37:58						0.000498	0.000498		
PCB-153	38:27	1837	1.08	1.0938	0.0304	0.0304	0.000514	0.000514		M
PCB-168 (C153)	38:27	1837	1.08	1.0938	0.0304	0.0304	0.000514	0.000514		M
PCB-141	38:39						0.000642	0.000642		
PCB-130	39:04						0.000797	0.000797		
PCB-137	39:16						0.000724	0.000724		
PCB-164	39:24						0.000542	0.000542		
PCB-129	39:41	1128	1.24	0.9464	0.0405	0.0216	0.000594	0.000594		RQ
PCB-138 (C129)	39:41	1128	1.24	0.9464	0.0405	0.0216	0.000594	0.000594		RQ
PCB-160 (C129)	39:41	1128	1.24	0.9464	0.0405	0.0216	0.000594	0.000594		RQ
PCB-163 (C129)	39:41	1128	1.24	0.9464	0.0405	0.0216	0.000594	0.000594		RQ
PCB-158	40:07	688	1.24	1.3110	0.0104	0.009490	0.000429	0.000429		RQa
PCB-128	40:55						0.000572	0.000572		
PCB-166 (C128)	40:55						0.000572	0.000572		
PCB-159	41:55						0.000406	0.000406		
PCB-162	42:12						0.000447	0.000447		
PCB-167	42:41						0.000415	0.000415		
PCB-156	43:51						0.000634	0.000634		
PCB-157 (C156)	43:51						0.000634	0.000634		
PCB-169	47:04						0.000406	0.000406		
S Total Heptachlorobiphenyls					0.0755	0.0670	0.001057	0.001057		RQ
D PCB-188L	37:03	4336390	1.06	1.3133	102.4	102.4	0.0537	0.0537	100	
\$ PCB-178L	40:07	3082483	1.08	1.0313	92.7	92.7	0.0684	0.0684	90.91	
* PCB-180L	45:12	3287749	1.09		102.0	102.0				
D PCB-170L	46:27	2764664	1.10	0.8362	102.6	102.6	0.0844	0.0844	101	
D PCB-189L	49:34	8448595	1.08	1.4414	121.5	121.5	0.2344	0.2344	119	
PCB-188	37:05						0.000514	0.000514		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:27						0.000507	0.000507		
PCB-184	37:57						0.000529	0.000529		
PCB-176	38:19						0.000586	0.000586		
PCB-186	38:46						0.000491	0.000491		
PCB-178	40:08						0.000808	0.000808		
PCB-175	40:46						0.000759	0.000759		
PCB-187	41:03						0.000656	0.000656		
PCB-182	41:15						0.000782	0.000782		
PCB-183	41:34	2292	1.05	0.9825	0.0755	0.0670	0.000736	0.000736		RQM
PCB-185 (C183)	41:34	2292	1.05	0.9825	0.0755	0.0670	0.000736	0.000736		RQM
PCB-174	41:54						0.000750	0.000750		
PCB-177	42:20						0.000740	0.000740		
PCB-181	42:43						0.000761	0.000761		
PCB-171	42:56						0.000775	0.000775		
PCB-173 (C171)	42:56						0.000775	0.000775		
PCB-172	44:34						0.000849	0.000849		
PCB-192	44:51						0.000537	0.000537		
PCB-180	45:10						0.000619	0.000619		
PCB-193 (C180)	45:10						0.000619	0.000619		
PCB-191	45:34						0.000561	0.000561		
PCB-170	46:28						0.000800	0.000800		
PCB-190	47:00						0.000543	0.000543		
PCB-189	49:34						0.008901	0.008901		
S Total Octachlorobiphenyls							0.005156	0.005156		
D PCB-202L	42:25	3251889	0.91	0.9818	102.8	102.8	0.0694	0.0694	101	
* PCB-194L	51:39	4920920	0.93		102.0	102.0				
D PCB-205L	52:08	5942015	0.91	1.1786	104.5	104.5	0.0843	0.0843	102	
PCB-202	42:27						0.003367	0.003367		
PCB-201	43:22						0.003576	0.003576		
PCB-204	44:02						0.003327	0.003327		
PCB-197	44:15						0.003044	0.003044		
PCB-200	44:23						0.003463	0.003463		
PCB-198	47:08						0.004010	0.004010		
PCB-199 (C198)	47:08						0.004010	0.004010		
PCB-196	47:49						0.004468	0.004468		
PCB-203	48:01						0.003754	0.003754		
PCB-195	49:21						0.005156	0.005156		
PCB-194	51:41						0.004377	0.004377		
PCB-205	52:09						0.003917	0.003917		
S Total Nonachlorobiphenyls							0.0758	0.0758		
D PCB-208L	49:04	4991942	0.80	0.9576	108.1	108.1	0.2185	0.2185	106	
D PCB-206L	53:53	3594109	0.80	0.6947	107.2	107.2	0.3011	0.3011	105	
PCB-208	49:06						0.0618	0.0618		
PCB-207	50:02						0.0603	0.0603		
PCB-206	53:54						0.0758	0.0758		
D PCB-209L	55:30	3550522	0.73	0.6669	110.4	110.4	0.0480	0.0480	108	
DCB Decachlorobiphenyl	55:31						0.000732	0.000732		
S Polychlorinated biphenyls, Total					29.6		0.0214	0.0214		RQ

### QC Flag Legend

#### Processing Flags

R - Failed Signal Ratio Test

n - Failed Sig-To-Noise Test

Q - EMPC-Estimated Max. Possible Conc.





Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Lims ID: 140-36940-A-4-E  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Sample Type: Client  
Inject. Date: 02-Jul-2024 19:57:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033352-006  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 02-Jul-2024 21:38:55 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1606

First Level Reviewer: V4XA

Date: 02-Jul-2024 21:38:55

Signal	RT (min.)	Adj RT (min.)	⏏ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:38	11:38	-2	0.728	7867804	3176144	7927	19817	401		
202.0766	11:38	11:38	-2	0.728	2553129	1028234	4536	11340	227	3.08(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	-1	0.863	7864091	2617717	7927	19817	330		
202.0766	13:47	13:46	-1	0.863	2386636	797024	4536	11340	176	3.30(2.66-3.60)	
PCB-1											
188.0393	11:39	11:39	-2	1.001	2420162	984701	906	2265	1087		
190.0363	11:39	11:39	-2	1.001	768001	314711	264	660	1192	3.15(2.66-3.60)	
PCB-2											
188.0393	13:37	13:38	-2	0.988	14365109	5081749	906	2265	5609		
190.0363	13:37	13:38	-2	0.988	4568172	1620836	264	660	6140	3.14(2.66-3.60)	
PCB-3											
188.0393	13:48	13:48	-1	1.001	12532143	4051117	906	2265	4471		
190.0363	13:47	13:48	-2	1.000	3923789	1295015	264	660	4905	3.19(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	-2	0.878	2397910	813220	282	705	2884		
236.0376	14:02	14:02	-2	0.878	1502617	515790	750	1875	688	1.60(1.33-1.79)	
PCB-9L											
234.0406	15:59	16:02	-3		3788592	1123336	282	705	3983		
236.0376	15:59	16:02	-3		2371336	701800	750	1875	936	1.60(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:49	-2	1.198	1973870	554033	282	705	1965		
236.0376	16:50	16:49	-2	1.198	1242851	349999	750	1875	467	1.59(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:55	19:52	-2	1.246	4415332	1086665	282	705	3853		
236.0376	19:55	19:52	-2	1.246	2740080	671446	750	1875	895	1.61(1.33-1.79)	
PCB-4											
222.0003	14:03	14:03	-2	1.001	8855	2811	79	197	36		RQ
223.9974	14:03	14:03	-2	1.001	7671	2681	451	1127	6	1.15(1.33-1.79)	
Empc Correction					5676	1801	451	1127	4		
PCB-10											
222.0003	14:13	14:13	-2	1.013	58139	19101	79	197	242		
223.9974	14:13	14:13	-2	1.013	34554	9984	451	1127	22	1.68(1.33-1.79)	
PCB-9											
222.0003	16:01	16:01	-2	1.140	5061	1581	79	197	20		RQM
223.9974	16:01	16:01	-2	1.140	5181	1669	451	1127	4	0.98(1.33-1.79)	M
Empc Correction					3244	1013	451	1127	2		
PCB-7											
222.0003	16:10	16:10	-2	1.152	714660	210940	79	197	2670		
223.9974	16:10	16:10	-2	1.152	446644	134209	451	1127	298	1.60(1.33-1.79)	
PCB-6											
222.0003	16:24	16:25	-3	1.169	16655	4375	79	197	55		RQ
223.9974	16:25	16:25	-2	1.169	13544	3717	451	1127	8	1.23(1.33-1.79)	
Empc Correction					10676	2804	451	1127	6		
PCB-5											
222.0003	16:43	16:43	-2	1.191	6308	1929	79	197	24		nM
223.9974	16:43	16:43	-2	1.191	4035	981	451	1127	2	1.56(1.33-1.79)	M
PCB-8											
222.0003	16:50	16:50	-3	1.199	22925	6606	79	197	84		RQM
Empc Correction					19772	6034	79	197	76		M
223.9974	16:50	16:50	-3	1.199	12675	3868	451	1127	9	1.81(1.33-1.79)	M
PCB-14											
222.0003	18:27	18:28	-2	0.927	44616	11918	79	197	151		
223.9974	18:28	18:28	-1	0.927	31134	8618	451	1127	19	1.43(1.33-1.79)	
PCB-11											
222.0003	19:18	19:19	-3	0.969	80508	20194	79	197	256		
223.9974	19:19	19:19	-2	0.970	47767	11655	451	1127	26	1.69(1.33-1.79)	
PCB-12											
222.0003	19:39	19:37	0	0.987	31568	4341	79	197	55		RQ
Empc Correction					20030	3227	79	197	41		
223.9974	19:37	19:37	-2	0.985	12840	2069	451	1127	5	2.46(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:39	19:37	0	0.987	31568	4341	79	197	55		RQ
Empc Correction					20030	3227	79	197	41		
223.9974	19:37	19:37	-2	0.985	12840	2069	451	1127	5	2.46(1.33-1.79)	
PCB-15											
222.0003	19:57	19:57	0	1.002	7902	2290	79	197	29		nM
223.9974	19:55	19:57	-2	1.000	5317	1103	451	1127	2	1.49(1.33-1.79)	M
PCB-19L											
268.0016	17:08	17:09	-1	0.840	1282623	359303	1231	3077	292		
269.9986	17:08	17:09	-1	0.840	1204192	331174	1066	2665	311	1.07(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	⌊ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:24	20:25	-1		2131843	524030	1231	3077	426		
269.9986	20:24	20:25	-1		2024587	493594	1066	2665	463	1.05(0.88-1.20)	
PCB-31L											
268.0016	22:39	22:39	-1		6040951	1457938	888	2220	1642		
269.9986	22:39	22:39	-1		5681545	1371044	429	1072	3196	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:55	22:56	-1	1.012	5649358	1352447	888	2220	1523		
269.9986	22:55	22:56	-1	1.012	5326075	1262357	429	1072	2943	1.06(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:56	-2	1.189	5497546	1166387	888	2220	1313		
269.9986	26:55	26:56	-2	1.189	5101201	1089537	429	1072	2540	1.08(0.88-1.20)	
PCB-19											
255.9613	17:10	17:10	-1	1.002	11008	3422	32	80	107		RQ
	Empc Correction				2952	1069	32	80	33		
257.9584	17:10	17:10	-1	1.002	2839	1028	13	32	79	3.88(0.88-1.20)	
PCB-18											
255.9613	19:01	19:01	2	1.110	3230	889	32	80	28		RQa
257.9584	19:00	19:01	1	1.109	5073	1444	13	32	111	0.64(0.88-1.20)	a
	Empc Correction				3105	854	13	32	66		
PCB-30 (C18)											
255.9613	19:01	19:01	2	1.110	3230	889	32	80	28		RQa
257.9584	19:00	19:01	1	1.109	5073	1444	13	32	111	0.64(0.88-1.20)	a
	Empc Correction				3105	854	13	32	66		
PCB-17											
255.9613	19:25	19:25	-2	1.133	2620	633	32	80	20		
257.9584	19:26	19:25	-1	1.133	2584	708	13	32	54	1.01(0.88-1.20)	
PCB-27											
255.9613	19:37	19:39	-3	1.145	13023	3180	32	80	99		RQM
257.9584	19:39	19:39	-1	1.146	25645	4783	13	32	368	0.51(0.88-1.20)	M
	Empc Correction				12522	3057	13	32	235		
PCB-24											
255.9613	19:45	19:46	-2	1.153	28563	4793	32	80	150		RQM
257.9584	19:46	19:46	-2	1.153	43975	6780	13	32	522	0.65(0.88-1.20)	M
	Empc Correction				27464	4608	13	32	354		
PCB-16											
255.9613	19:54	19:52	-2	1.161	2333	530	32	80	17		RQM
257.9584	19:52	19:52	-3	1.159	5380	965	13	32	74	0.43(0.88-1.20)	M
	Empc Correction				2243	509	13	32	39		
PCB-32											
255.9613	20:23	20:24	-2	1.189	2150	595	32	80	19		RQ
257.9584	20:24	20:24	-2	1.190	2714	713	13	32	55	0.79(0.88-1.20)	
	Empc Correction				2067	572	13	32	44		
PCB-34											
255.9613	21:38						146	365			
257.9584	21:38						68	170			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-23											
255.9613	21:48						146	365			
257.9584	21:48						68	170			
PCB-26											
255.9613	22:07	22:08	-1	1.291	5992	1617	146	365	11		RQM
	Empc Correction				4284	1209	146	365	8		
257.9584	22:08	22:08	-1	1.291	4120	1163	68	170	17	1.45(0.88-1.20)	M
PCB-29 (C26)											
255.9613	22:07	22:08	-1	1.291	5992	1617	146	365	11		RQM
	Empc Correction				4284	1209	146	365	8		
257.9584	22:08	22:08	-1	1.291	4120	1163	68	170	17	1.45(0.88-1.20)	M
PCB-25											
255.9613	22:20						146	365			
257.9584	22:20						68	170			
PCB-31											
255.9613	22:39	22:39	-1	0.841	8207	2375	146	365	16		
257.9584	22:40	22:39	-1	0.842	8530	2314	68	170	34	0.96(0.88-1.20)	
PCB-20											
255.9613	22:56	22:58	-3	0.852	8194	2085	146	365	14		RQM
257.9584	22:58	22:58	-1	0.853	9443	1816	68	170	27	0.87(0.88-1.20)	M
	Empc Correction				7878	2004	68	170	29		
PCB-28 (C20)											
255.9613	22:56	22:58	-3	0.852	8194	2085	146	365	14		RQM
257.9584	22:58	22:58	-1	0.853	9443	1816	68	170	27	0.87(0.88-1.20)	M
	Empc Correction				7878	2004	68	170	29		
PCB-21											
255.9613	23:11	23:11	-2	0.861	10703	1405	146	365	10		RQM
	Empc Correction				9226	1530	146	365	10		M
257.9584	23:10	23:11	-3	0.860	8872	1472	68	170	22	1.21(0.88-1.20)	
PCB-33 (C21)											
255.9613	23:11	23:11	-2	0.861	10703	1405	146	365	10		RQM
	Empc Correction				9226	1530	146	365	10		M
257.9584	23:10	23:11	-3	0.860	8872	1472	68	170	22	1.21(0.88-1.20)	
PCB-22											
255.9613	23:29	23:29	-8	0.872	84381	16850	146	365	115		RQa
	Empc Correction				6619	1760	146	365	12		a
257.9584	23:29	23:29	-8	0.872	6365	1693	68	170	25	13.26(0.88-1.20)	
PCB-36											
255.9613	25:08						146	365			
257.9584	25:08						68	170			
PCB-39											
255.9613	25:30						146	365			
257.9584	25:30						68	170			
PCB-38											
255.9613	26:04						146	365			
257.9584	26:04						68	170			

Signal	RT (min.)	Adj RT (min.)	⌊ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-35											
255.9613	26:32						146	365			
257.9584	26:32						68	170			
PCB-37											
255.9613	26:57	26:57	-2	1.001	4124	777	146	365	5		
257.9584	26:57	26:57	-2	1.001	4411	884	68	170	13	0.93(0.88-1.20)	
PCB-54L											
301.9626	20:14	20:14	-1	0.817	1136950	281687	589	1472	478		
303.9597	20:14	20:14	-1	0.817	1408676	352985	234	585	1508	0.81(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:47	-1		2306106	529000	1270	3175	417		
303.9597	24:46	24:47	-1		2803539	643510	1011	2527	637	0.82(0.65-0.89)	
PCB-79L											
301.9626	32:40	32:40	-1	0.970	1587029	333867	1270	3175	263		
303.9597	32:40	32:40	-1	0.970	1989552	415473	1011	2527	411	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:40	33:39	0	1.360	3139436	640316	1270	3175	504		
303.9597	33:40	33:39	0	1.360	3885859	800837	1011	2527	792	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:13	34:13	-1	1.382	3228044	645129	1270	3175	508		
303.9597	34:13	34:13	-1	1.382	3929793	784262	1011	2527	776	0.82(0.65-0.89)	
PCB-54											
289.9224	20:16						5	12			
291.9194	20:16						6	15			
PCB-50											
289.9224	22:25						32	80			
291.9194	22:25						81	202			
PCB-53 (C50)											
289.9224	22:25						32	80			
291.9194	22:25						81	202			
PCB-45											
289.9224	23:08	23:08	-2	1.143	9991	2471	32	80	77		RQ
291.9194	23:08	23:08	-1	1.144	17802	4017	81	202	50	0.56(0.65-0.89)	
	Empc Correction				12975	3209	81	202	40		
PCB-51 (C45)											
289.9224	23:08	23:08	-2	1.143	9991	2471	32	80	77		RQ
291.9194	23:08	23:08	-1	1.144	17802	4017	81	202	50	0.56(0.65-0.89)	
	Empc Correction				12975	3209	81	202	40		
PCB-46											
289.9224	23:23						32	80			
291.9194	23:23						81	202			
PCB-52											
289.9224	24:48	24:47	0	1.226	4258	838	32	80	26		M
291.9194	24:47	24:47	-2	1.225	5586	1281	81	202	16	0.76(0.65-0.89)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-43											
289.9224	24:56						32	80			
291.9194	24:56						81	202			
PCB-73 (C43)											
289.9224	24:56						32	80			
291.9194	24:56						81	202			
PCB-49											
289.9224	25:17	25:13	3	1.250	3138	955	32	80	30		
291.9194	25:14	25:13	1	1.248	3979	786	81	202	10	0.79(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:17	25:13	3	1.250	3138	955	32	80	30		
291.9194	25:14	25:13	1	1.248	3979	786	81	202	10	0.79(0.65-0.89)	
PCB-48											
289.9224	25:33						32	80			
291.9194	25:33						81	202			
PCB-44											
289.9224	25:49	25:47	1	1.276	18403	3665	32	80	115		RQ
	Empc Correction				14819	2693	32	80	84		
291.9194	25:48	25:47	0	1.276	19246	3498	81	202	43	0.96(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:49	25:47	1	1.276	18403	3665	32	80	115		RQ
	Empc Correction				14819	2693	32	80	84		
291.9194	25:48	25:47	0	1.276	19246	3498	81	202	43	0.96(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:49	25:47	1	1.276	18403	3665	32	80	115		RQ
	Empc Correction				14819	2693	32	80	84		
291.9194	25:48	25:47	0	1.276	19246	3498	81	202	43	0.96(0.65-0.89)	
PCB-59											
289.9224	26:06						32	80			
291.9194	26:06						81	202			
PCB-62 (C59)											
289.9224	26:06						32	80			
291.9194	26:06						81	202			
PCB-75 (C59)											
289.9224	26:06						32	80			
291.9194	26:06						81	202			
PCB-42											
289.9224	26:18						32	80			
291.9194	26:18						81	202			
PCB-40											
289.9224	26:48						32	80			
291.9194	26:48						81	202			
PCB-41 (C40)											
289.9224	26:48						32	80			
291.9194	26:48						81	202			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-71 (C40)											
289.9224	26:48						32	80			
291.9194	26:48						81	202			
PCB-64											
289.9224	27:01						32	80			
291.9194	27:01						81	202			
PCB-72											
289.9224	27:51						32	80			
291.9194	27:51						81	202			
PCB-68											
289.9224	28:08						32	80			
291.9194	28:08						81	202			
PCB-57											
289.9224	28:33						32	80			
291.9194	28:33						81	202			
PCB-58											
289.9224	28:48						32	80			
291.9194	28:48						81	202			
PCB-67											
289.9224	28:57						32	80			
291.9194	28:57						81	202			
PCB-63											
289.9224	29:13						32	80			
291.9194	29:13						81	202			
PCB-61											
289.9224	29:34	29:32	0	0.878	4530	639	32	80	20		M
291.9194	29:32	29:32	-2	0.877	6007	1635	81	202	20	0.75(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:34	29:32	0	0.878	4530	639	32	80	20		M
291.9194	29:32	29:32	-2	0.877	6007	1635	81	202	20	0.75(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:34	29:32	0	0.878	4530	639	32	80	20		M
291.9194	29:32	29:32	-2	0.877	6007	1635	81	202	20	0.75(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:34	29:32	0	0.878	4530	639	32	80	20		M
291.9194	29:32	29:32	-2	0.877	6007	1635	81	202	20	0.75(0.65-0.89)	M
PCB-66											
289.9224	29:52	29:53	-2	0.887	3758	1095	32	80	34		RQ
	Empc Correction				3066	676	32	80	21		
291.9194	29:52	29:53	-2	0.887	3983	879	81	202	11	0.94(0.65-0.89)	
PCB-55											
289.9224	30:03						32	80			
291.9194	30:03						81	202			
PCB-56											
289.9224	30:32	30:34	-2	0.907	2775	719	32	80	22		RQ
291.9194	30:32	30:34	-2	0.907	4419	838	81	202	10	0.63(0.65-0.89)	
	Empc Correction				3603	933	81	202	12		



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-60											RQ
289.9224	30:44	30:46	-2	0.913	1714	365	32	80	11		
291.9194	30:45	30:46	-2	0.913	3190	518	81	202	6	0.54(0.65-0.89)	
Empc Correction					2225	474	81	202	6		
PCB-80											
289.9224	31:10						32	80			
291.9194	31:10						81	202			
PCB-79											
289.9224	32:42						32	80			
291.9194	32:42						81	202			
PCB-78											
289.9224	33:15						32	80			
291.9194	33:15						81	202			
PCB-81											
289.9224	33:42						32	80			
291.9194	33:42						81	202			
PCB-77											RQM
289.9224	34:12	34:16	-3	1.000	2150	447	32	80	14		M
291.9194	34:16	34:16	1	1.001	3905	1028	81	202	13	0.55(0.65-0.89)	M
Empc Correction					2792	580	81	202	7		
PCB-104L											
337.9207	25:42	25:42	-1	0.813	2561730	577056	103	257	5602		
339.9178	25:42	25:42	-1	0.813	1590160	358867	158	395	2271	1.61(1.32-1.78)	
PCB-95L											
337.9207	28:40	28:40	0	1.116	1046263	216791	103	257	2105		
339.9178	28:40	28:40	0	1.116	655884	140363	158	395	888	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:35	31:35	0		2083988	426620	103	257	4142		
339.9178	31:35	31:35	0		1299517	269665	158	395	1707	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:15	34:15	0	1.085	2644098	551999	103	257	5359		
339.9178	34:15	34:15	0	1.085	1583003	334439	158	395	2117	1.67(1.32-1.78)	
PCB-123L											
337.9207	36:13	36:13	-1	1.146	4370019	886500	3770	9425	235		
339.9178	36:13	36:13	-1	1.146	2701613	547108	2571	6427	213	1.62(1.32-1.78)	
PCB-118L											
337.9207	36:32	36:33	-1	1.157	4567512	921237	3770	9425	244		
339.9178	36:32	36:33	-1	1.157	2852098	580058	2571	6427	226	1.60(1.32-1.78)	
PCB-114L											
337.9207	37:04	37:05	-1	1.173	4492954	904212	3770	9425	240		
339.9178	37:04	37:05	-1	1.173	2761850	561051	2571	6427	218	1.63(1.32-1.78)	
PCB-105L											
337.9207	37:43	37:44	-1	1.194	4521879	905684	3770	9425	240		
339.9178	37:43	37:44	-1	1.194	2865798	583420	2571	6427	227	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-127L											
337.9207	39:11	39:12	-1		4426807	867367	3770	9425	230		
339.9178	39:11	39:12	0		2704575	529506	2571	6427	206	1.64(1.32-1.78)	
PCB-126L											
337.9207	40:48	40:48	0	1.292	4511181	880756	3770	9425	234		
339.9178	40:48	40:48	0	1.292	2821669	553247	2571	6427	215	1.60(1.32-1.78)	
PCB-104											
325.8804	25:43						18	45			
327.8775	25:43						8	20			
PCB-96											
325.8804	26:06						18	45			
327.8775	26:06						8	20			
PCB-103											
325.8804	28:01						18	45			
327.8775	28:01						8	20			
PCB-94											
325.8804	28:15						18	45			
327.8775	28:15						8	20			
PCB-95											
325.8804	28:43	28:43	1	1.117	2707	584	18	45	32		M
327.8775	28:43	28:43	1	1.117	1932	421	8	20	53	1.40(1.32-1.78)	M
PCB-93											
325.8804	28:53						18	45			
327.8775	28:53						8	20			
PCB-100 (C93)											
325.8804	28:53						18	45			
327.8775	28:53						8	20			
PCB-98											
325.8804	29:03						18	45			
327.8775	29:03						8	20			
PCB-102 (C98)											
325.8804	29:03						18	45			
327.8775	29:03						8	20			
PCB-88											
325.8804	29:33	29:33	-1	1.150	523	176	18	45	10		RQ
327.8775	29:33	29:33	-1	1.150	761	189	8	20	24	0.69(1.32-1.78)	
	Empc Correction				337	113	8	20	14		
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	523	176	18	45	10		RQ
327.8775	29:33	29:33	-1	1.150	761	189	8	20	24	0.69(1.32-1.78)	
	Empc Correction				337	113	8	20	14		
PCB-84											
325.8804	29:46	29:47	-2	1.159	1054	405	18	45	23		RQ
327.8775	29:47	29:47	-1	1.159	802	207	8	20	26	1.31(1.32-1.78)	
	Empc Correction				680	261	8	20	33		

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	Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-89												
325.8804	30:15							18	45			
327.8775	30:15							8	20			
PCB-121												
325.8804	30:38							18	45			
327.8775	30:38							8	20			
PCB-92												
325.8804	31:05	31:02	2	0.858	444	166	18	45	9			
327.8775	31:03	31:02	1	0.857	302	129	8	20	16		1.47(1.32-1.78)	
PCB-90												
325.8804	31:36	31:40	0	1.230	2528	499	18	45	28			RQM
	Empc Correction				1994	544	18	45	30			M
327.8775	31:40	31:40	4	1.232	1287	351	8	20	44		1.96(1.32-1.78)	M
PCB-101 (C90)												
325.8804	31:36	31:40	0	1.230	2528	499	18	45	28			RQM
	Empc Correction				1994	544	18	45	30			M
327.8775	31:40	31:40	4	1.232	1287	351	8	20	44		1.96(1.32-1.78)	M
PCB-113 (C90)												
325.8804	31:36	31:40	0	1.230	2528	499	18	45	28			RQM
	Empc Correction				1994	544	18	45	30			M
327.8775	31:40	31:40	4	1.232	1287	351	8	20	44		1.96(1.32-1.78)	M
PCB-83												
325.8804	32:13	32:13	1	1.254	1084	330	18	45	18			RQM
	Empc Correction				793	392	18	45	22			M
327.8775	32:11	32:13	0	1.253	512	253	8	20	32		2.12(1.32-1.78)	
PCB-99 (C83)												
325.8804	32:13	32:13	1	1.254	1084	330	18	45	18			RQM
	Empc Correction				793	392	18	45	22			M
327.8775	32:11	32:13	0	1.253	512	253	8	20	32		2.12(1.32-1.78)	
PCB-112												
325.8804	32:17						18	45				
327.8775	32:17						8	20				
PCB-86												
325.8804	32:47	32:47	5	1.276	1923	334	18	45	19			RQM
	Empc Correction				1041	362	18	45	20			M
327.8775	32:47	32:47	6	1.276	672	234	8	20	29		2.86(1.32-1.78)	M
PCB-87 (C86)												
325.8804	32:47	32:47	5	1.276	1923	334	18	45	19			RQM
	Empc Correction				1041	362	18	45	20			M
327.8775	32:47	32:47	6	1.276	672	234	8	20	29		2.86(1.32-1.78)	M
PCB-97 (C86)												
325.8804	32:47	32:47	5	1.276	1923	334	18	45	19			RQM
	Empc Correction				1041	362	18	45	20			M
327.8775	32:47	32:47	6	1.276	672	234	8	20	29		2.86(1.32-1.78)	M
PCB-109 (C86)												
325.8804	32:47	32:47	5	1.276	1923	334	18	45	19			RQM
	Empc Correction				1041	362	18	45	20			M
327.8775	32:47	32:47	6	1.276	672	234	8	20	29		2.86(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											RQM
325.8804	32:47	32:47	5	1.276	1923	334	18	45	19		M
	Empc Correction				1041	362	18	45	20		
327.8775	32:47	32:47	6	1.276	672	234	8	20	29	2.86(1.32-1.78)	M
PCB-125 (C86)											RQM
325.8804	32:47	32:47	5	1.276	1923	334	18	45	19		M
	Empc Correction				1041	362	18	45	20		
327.8775	32:47	32:47	6	1.276	672	234	8	20	29	2.86(1.32-1.78)	M
PCB-85											M
325.8804	33:26	33:26	1	1.301	2070	433	18	45	24		M
327.8775	33:24	33:26	0	1.300	1355	425	8	20	53	1.53(1.32-1.78)	
PCB-116 (C85)											M
325.8804	33:26	33:26	1	1.301	2070	433	18	45	24		M
327.8775	33:24	33:26	0	1.300	1355	425	8	20	53	1.53(1.32-1.78)	
PCB-117 (C85)											M
325.8804	33:26	33:26	1	1.301	2070	433	18	45	24		M
327.8775	33:24	33:26	0	1.300	1355	425	8	20	53	1.53(1.32-1.78)	
PCB-110											RQM
325.8804	33:37	33:37	0	1.308	3104	619	18	45	34		M
	Empc Correction				2366	621	18	45	35		
327.8775	33:37	33:37	0	1.308	1527	401	8	20	50	2.03(1.32-1.78)	
PCB-115 (C110)											RQM
325.8804	33:37	33:37	0	1.308	3104	619	18	45	34		M
	Empc Correction				2366	621	18	45	35		
327.8775	33:37	33:37	0	1.308	1527	401	8	20	50	2.03(1.32-1.78)	
PCB-82											
325.8804	33:54						18	45			
327.8775	33:54						8	20			
PCB-111											
325.8804	34:16						18	45			
327.8775	34:16						8	20			
PCB-120											RQM
325.8804	34:43	34:43	-2	1.351	2894	815	18	45	45		M
327.8775	34:44	34:43	-1	1.352	9152	2018	8	20	252	0.32(1.32-1.78)	
	Empc Correction				1867	525	8	20	66		
PCB-108											
325.8804	35:52						48	120			
327.8775	35:52						36	90			
PCB-124 (C108)											
325.8804	35:52						48	120			
327.8775	35:52						36	90			
PCB-107											RQM
325.8804	36:08	36:08	0	1.406	1372	558	48	120	12		M
327.8775	36:08	36:08	0	1.406	1740	760	36	90	21	0.79(1.32-1.78)	M
	Empc Correction				885	360	36	90	10		
PCB-123											RQM
325.8804	36:13	36:13	-3	1.000	398	176	48	120	4		Ma
327.8775	36:13	36:13	-3	1.000	544	162	36	90	5	0.73(1.32-1.78)	M
	Empc Correction				256	113	36	90	3		

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-106											
325.8804	36:20						48	120			
327.8775	36:20						36	90			
PCB-118											
325.8804	36:35	36:35	1	1.001	3667	812	48	120	17		M
327.8775	36:32	36:35	-2	1.000	2215	463	36	90	13	1.66(1.32-1.78)	M
PCB-122											
325.8804	36:54						48	120			
327.8775	36:54						36	90			
PCB-114											
325.8804	37:05						48	120			
327.8775	37:05						36	90			
PCB-105											
325.8804	37:46	37:43	1	1.001	1643	340	48	120	7		RQM
327.8775	37:43	37:43	-3	1.000	1355	295	36	90	8	1.21(1.32-1.78)	M
	Empc Correction				1060	219	36	90	6		
PCB-127											
325.8804	39:12						48	120			
327.8775	39:12						36	90			
PCB-126											
325.8804	40:50						48	120			
327.8775	40:50						36	90			
PCB-155L											
371.8817	31:20	31:21	-1	0.790	2161203	451230	144	360	3134		
373.8788	31:20	31:21	-1	0.790	1714117	354656	91	227	3897	1.26(1.05-1.43)	
PCB-153L											
371.8817	38:24	38:24	0	0.900	1389954	288463	1915	4787	151		
373.8788	38:24	38:24	0	0.900	1072758	216015	1712	4280	126	1.30(1.05-1.43)	
PCB-138L											
371.8817	39:40	39:40	0		2473108	486624	1915	4787	254		
373.8788	39:40	39:40	0		1948912	388564	1712	4280	227	1.27(1.05-1.43)	
PCB-167L											
371.8817	42:40	42:40	0	1.076	3192859	624846	1915	4787	326		
373.8788	42:39	42:40	-1	1.075	2429015	475274	1712	4280	278	1.31(1.05-1.43)	
PCB-156L											
371.8817	43:49	43:49	0	1.105	6315671	808856	1915	4787	422		
373.8788	43:49	43:49	0	1.105	4939678	639878	1712	4280	374	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:49	43:49	0	1.105	6315671	808856	1915	4787	422		
373.8788	43:49	43:49	0	1.105	4939678	639878	1712	4280	374	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:02	47:02	0	1.186	3215119	608317	1915	4787	318		
373.8788	47:02	47:02	0	1.186	2468144	471206	1712	4280	275	1.30(1.05-1.43)	
PCB-155											
359.8415	31:21						2	5			
361.8385	31:21						4	10			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-152											
359.8415	31:34						2	5			
361.8385	31:34						4	10			
PCB-150											
359.8415	31:44						2	5			
361.8385	31:44						4	10			
PCB-136											
359.8415	32:07						2	5			
361.8385	32:07						4	10			
PCB-145											
359.8415	32:23						2	5			
361.8385	32:23						4	10			
PCB-148											
359.8415	33:54						2	5			
361.8385	33:54						4	10			
PCB-135											
359.8415	34:30	34:29	0	1.101	49	15	2	5	8		RQ
361.8385	34:32	34:29	2	1.102	200	63	4	10	16	0.25(1.05-1.43)	
	Empc Correction				39	12	4	10	3		
PCB-151 (C135)											
359.8415	34:30	34:29	0	1.101	49	15	2	5	8		RQ
361.8385	34:32	34:29	2	1.102	200	63	4	10	16	0.25(1.05-1.43)	
	Empc Correction				39	12	4	10	3		
PCB-154											
359.8415	34:44						2	5			
361.8385	34:44						4	10			
PCB-144											
359.8415	35:03						2	5			
361.8385	35:03						4	10			
PCB-147											
359.8415	35:24	35:25	-3	1.130	1539	368	1	2	368		RQM
	Empc Correction				922	204	1	2	204		
361.8385	35:25	35:25	-2	1.130	744	165	1	2	165	2.07(1.05-1.43)	M
PCB-149 (C147)											
359.8415	35:24	35:25	-3	1.130	1539	368	1	2	368		RQM
	Empc Correction				922	204	1	2	204		
361.8385	35:25	35:25	-2	1.130	744	165	1	2	165	2.07(1.05-1.43)	M
PCB-134											
359.8415	35:43						1	2			
361.8385	35:43						1	2			
PCB-143 (C134)											
359.8415	35:43						1	2			
361.8385	35:43						1	2			
PCB-139											
359.8415	36:01						1	2			
361.8385	36:01						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-140 (C139)											
359.8415	36:01						1	2			
361.8385	36:01						1	2			
PCB-131											
359.8415	36:13						1	2			
361.8385	36:13						1	2			
PCB-142											
359.8415	36:22						1	2			
361.8385	36:22						1	2			
PCB-132											
359.8415	36:41						1	2			
361.8385	36:41						1	2			
PCB-133											
359.8415	37:10						1	2			
361.8385	37:10						1	2			
PCB-165											
359.8415	37:35						1	2			
361.8385	37:35						1	2			
PCB-146											
359.8415	37:49	37:50	-1	0.886	273	132	1	2	132		RQ
	Empc Correction				178	80	1	2	80		
361.8385	37:47	37:50	-3	0.886	144	65	1	2	65	1.90(1.05-1.43)	
PCB-161											
359.8415	37:57						1	2			
361.8385	37:57						1	2			
PCB-153											
359.8415	38:27	38:27	0	0.901	952	323	1	2	323		M
361.8385	38:24	38:27	-3	0.900	885	323	1	2	323	1.08(1.05-1.43)	M
PCB-168 (C153)											
359.8415	38:27	38:27	0	0.901	952	323	1	2	323		M
361.8385	38:24	38:27	-3	0.900	885	323	1	2	323	1.08(1.05-1.43)	M
PCB-141											
359.8415	38:38						1	2			
361.8385	38:38						1	2			
PCB-130											
359.8415	39:04						1	2			
361.8385	39:04						1	2			
PCB-137											
359.8415	39:15						1	2			
361.8385	39:15						1	2			
PCB-164											
359.8415	39:23						1	2			
361.8385	39:23						1	2			
PCB-129											
359.8415	39:41	39:41	0	0.930	1615	515	1	2	515		RQ
	Empc Correction				624	150	1	2	150		
361.8385	39:41	39:41	0	0.930	504	121	1	2	121	3.20(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-138 (C129)											RQ
359.8415	39:41	39:41	0	0.930	1615	515	1	2	515		
	Empc Correction				624	150	1	2	150		
361.8385	39:41	39:41	0	0.930	504	121	1	2	121	3.20(1.05-1.43)	
PCB-160 (C129)											RQ
359.8415	39:41	39:41	0	0.930	1615	515	1	2	515		
	Empc Correction				624	150	1	2	150		
361.8385	39:41	39:41	0	0.930	504	121	1	2	121	3.20(1.05-1.43)	
PCB-163 (C129)											RQ
359.8415	39:41	39:41	0	0.930	1615	515	1	2	515		
	Empc Correction				624	150	1	2	150		
361.8385	39:41	39:41	0	0.930	504	121	1	2	121	3.20(1.05-1.43)	
PCB-158											RQa
359.8415	40:07	40:07	3	0.941	381	183	1	2	183		a
361.8385	40:06	40:07	1	0.940	371	132	1	2	132	1.03(1.05-1.43)	
	Empc Correction				307	147	1	2	147		
PCB-128											
359.8415	40:55						1	2			
361.8385	40:55						1	2			
PCB-166 (C128)											
359.8415	40:55						1	2			
361.8385	40:55						1	2			
PCB-159											
359.8415	41:55						1	2			
361.8385	41:55						1	2			
PCB-162											
359.8415	42:12						1	2			
361.8385	42:12						1	2			
PCB-167											
359.8415	42:40						1	2			
361.8385	42:40						1	2			
PCB-156											
359.8415	43:51						1	2			
361.8385	43:51						1	2			
PCB-157 (C156)											
359.8415	43:51						1	2			
361.8385	43:51						1	2			
PCB-169											
359.8415	47:04						1	2			
361.8385	47:04						1	2			
PCB-188L											
405.8428	37:03	37:04	-1	0.820	2231571	452982	109	272	4156		
407.8398	37:03	37:04	-1	0.820	2104819	420477	66	165	6371	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:07	40:07	0	0.887	1599462	314252	109	272	2883		
407.8398	40:07	40:07	0	0.887	1483021	293337	66	165	4445	1.08(0.89-1.21)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-180L											
405.8428	45:12	45:12	0		1713537	329453	109	272	3023		
407.8398	45:12	45:12	0		1574212	302386	66	165	4582	1.09(0.89-1.21)	
PCB-170L											
405.8428	46:27	46:27	0	1.028	1445998	283611	109	272	2602		
407.8398	46:27	46:27	0	1.028	1318666	253371	66	165	3839	1.10(0.89-1.21)	
PCB-189L											
405.8428	49:34	49:33	0	1.097	4392873	856666	703	1757	1219		
407.8398	49:34	49:33	0	1.097	4055722	772964	531	1327	1456	1.08(0.89-1.21)	
PCB-188											
393.8025	37:04						1	2			
395.7995	37:04						1	2			
PCB-179											
393.8025	37:26						1	2			
395.7995	37:26						1	2			
PCB-184											
393.8025	37:56						1	2			
395.7995	37:56						1	2			
PCB-176											
393.8025	38:18						1	2			
395.7995	38:18						1	2			
PCB-186											
393.8025	38:45						1	2			
395.7995	38:45						1	2			
PCB-178											
393.8025	40:07						1	2			
395.7995	40:07						1	2			
PCB-175											
393.8025	40:45						1	2			
395.7995	40:45						1	2			
PCB-187											
393.8025	41:02						1	2			
395.7995	41:02						1	2			
PCB-182											
393.8025	41:14						1	2			
395.7995	41:14						1	2			
PCB-183											
393.8025	41:34	41:40	-5	1.122	1174	231	1	2	231		RQM
395.7995	41:40	41:40	1	1.125	1409	355	1	2	355	0.83(0.89-1.21)	M
Empc Correction					1118	220	1	2	220		
PCB-185 (C183)											
393.8025	41:34	41:40	-5	1.122	1174	231	1	2	231		RQM
395.7995	41:40	41:40	1	1.125	1409	355	1	2	355	0.83(0.89-1.21)	M
Empc Correction					1118	220	1	2	220		
PCB-174											
393.8025	41:53						1	2			
395.7995	41:53						1	2			

BASFHWC-Report-2024-03480  
9/6/2024  
3:53:39 PM

BASFHWC-Field-Report-2024-03481  
9/6/2024 3:53:39 PM

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
--------	--------------	------------------	------	-----------	------	--------	--------------	---------------	-----	---------------	-------

## PCB-207

461.7246	50:01						13	32			
463.7216	50:01						246	615			

## PCB-206

461.7246	53:54						13	32			
463.7216	53:54						246	615			

## PCB-209L

507.7258	55:30	55:30	0	1.074	1498323	267637	73	182	3666		
509.7229	55:30	55:30	0	1.074	2052199	365362	44	110	8304	0.73(0.59-0.79)	

## DCB Decachlorobiphenyl

495.6856	55:31						1	2			
497.6826	55:31						1	2			

## QC Flag Legend

## Processing Flags

R - Failed Signal Ratio Test

n - Failed Sig-To-Noise Test

Q - EMPC-Estimated Max. Possible Conc.

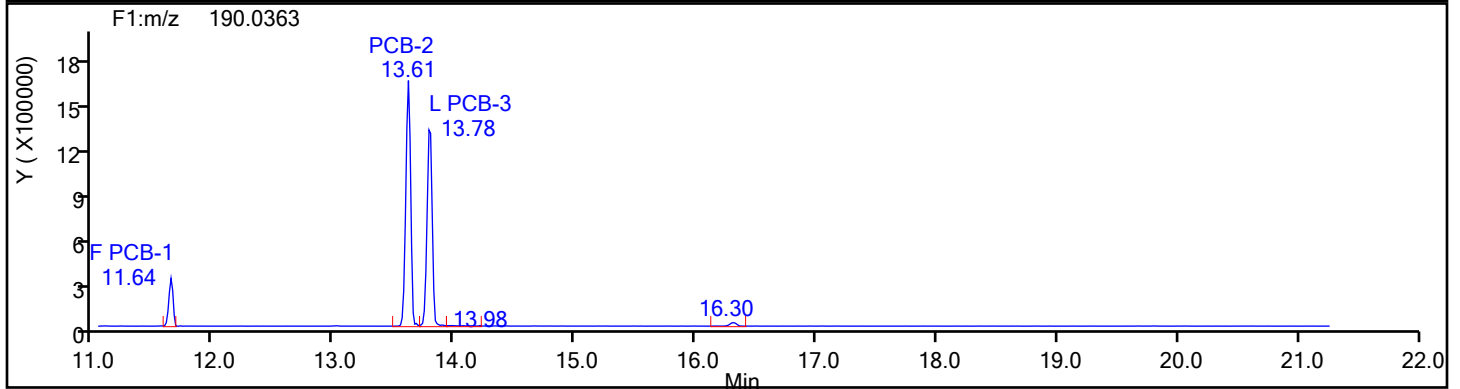
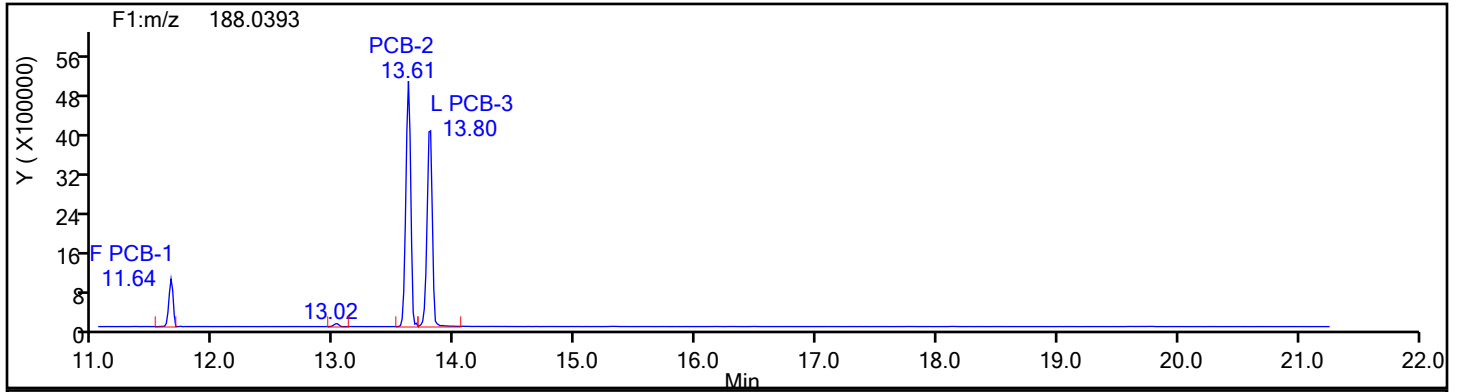
## Review Flags

M - Manually Integrated

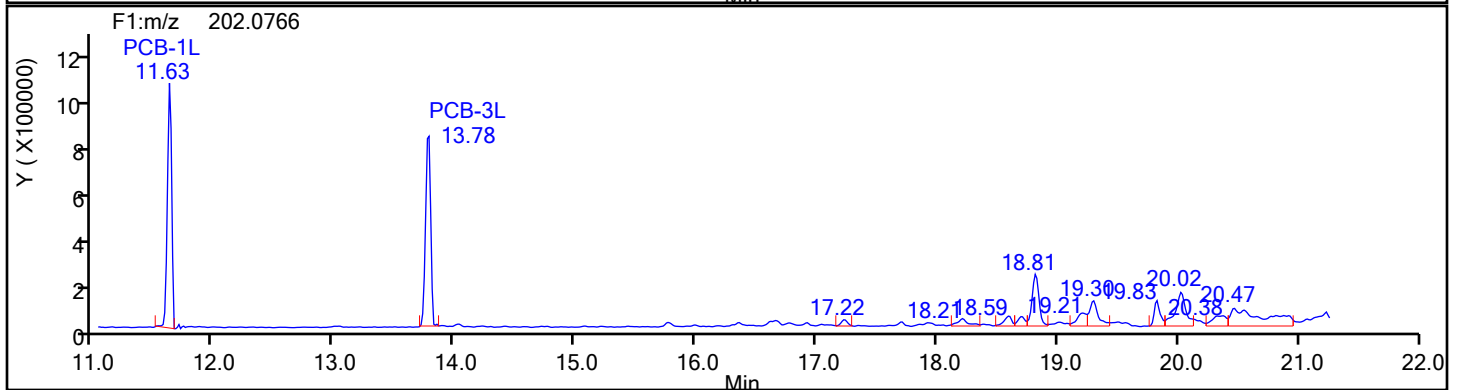
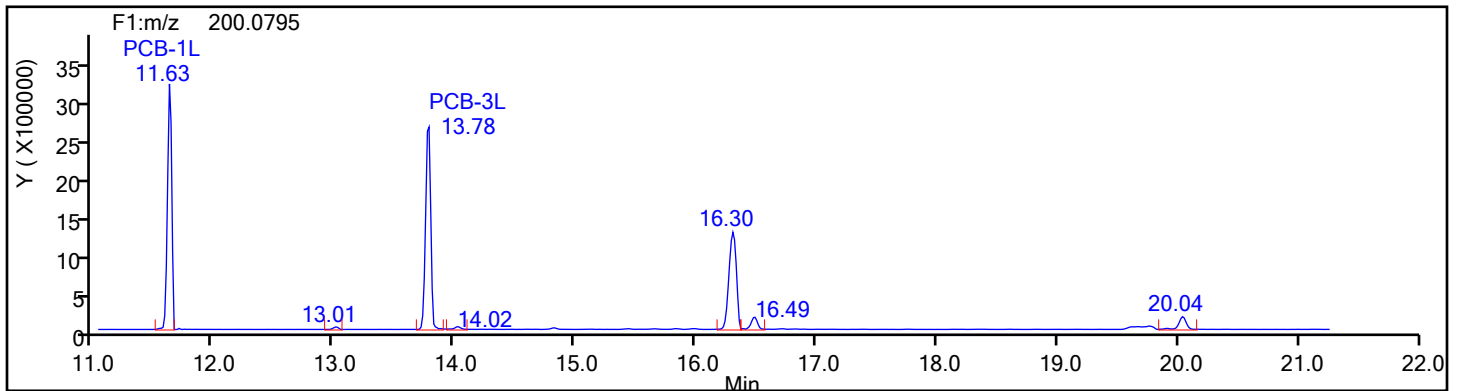
a - User Assigned ID

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

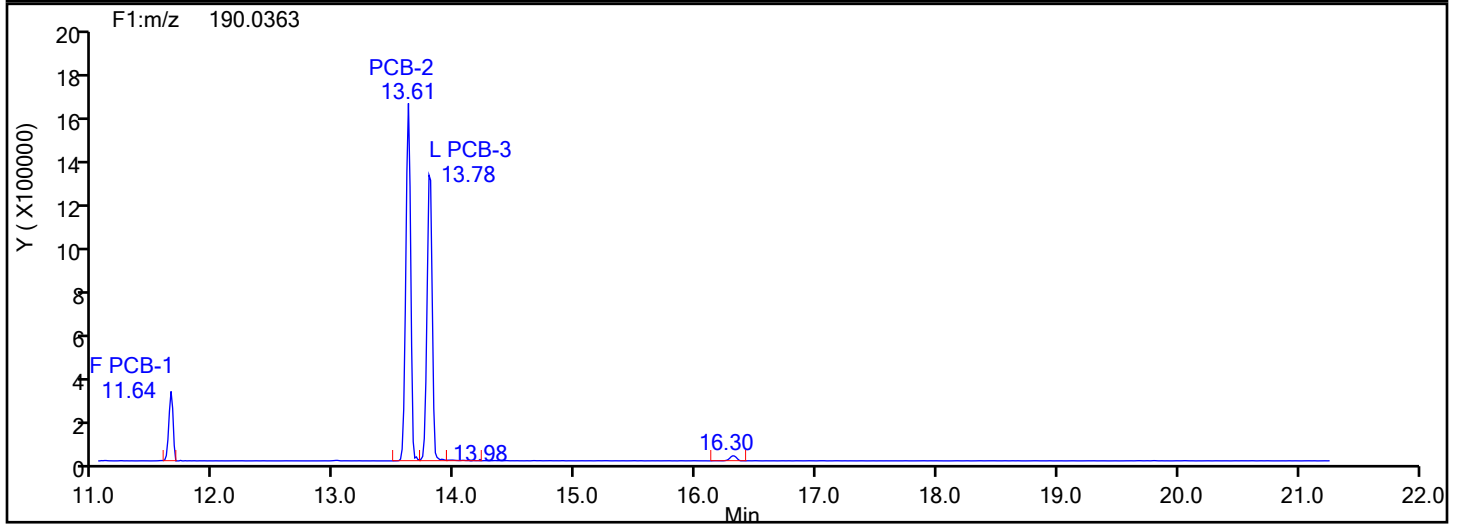
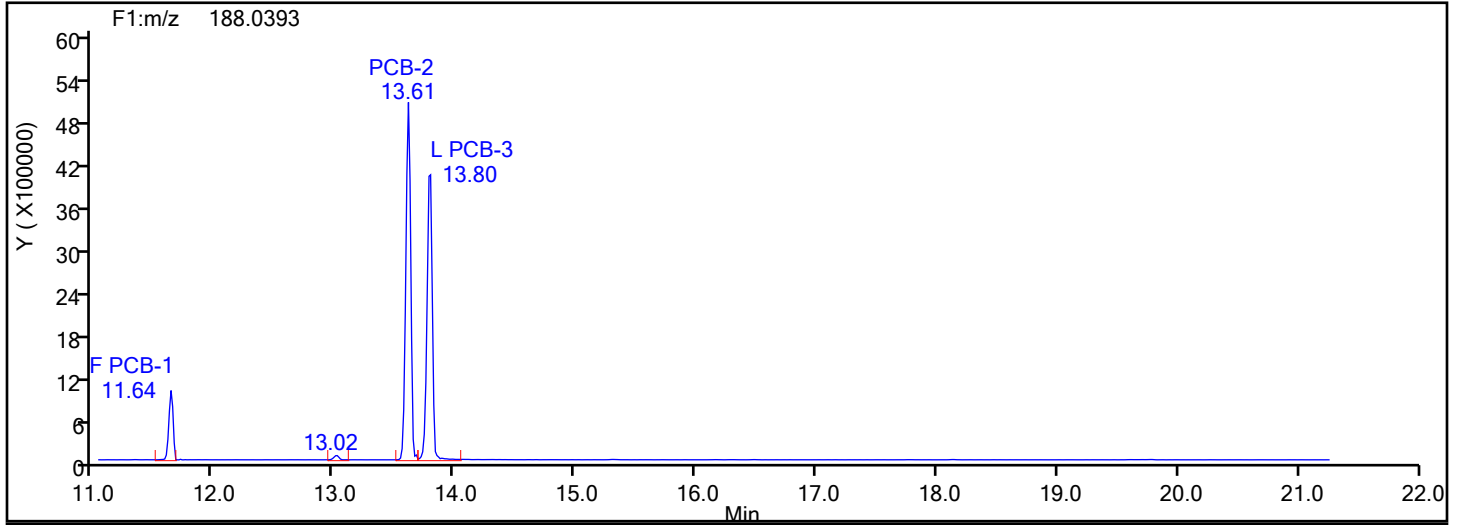


## MoPCB F1 Standards

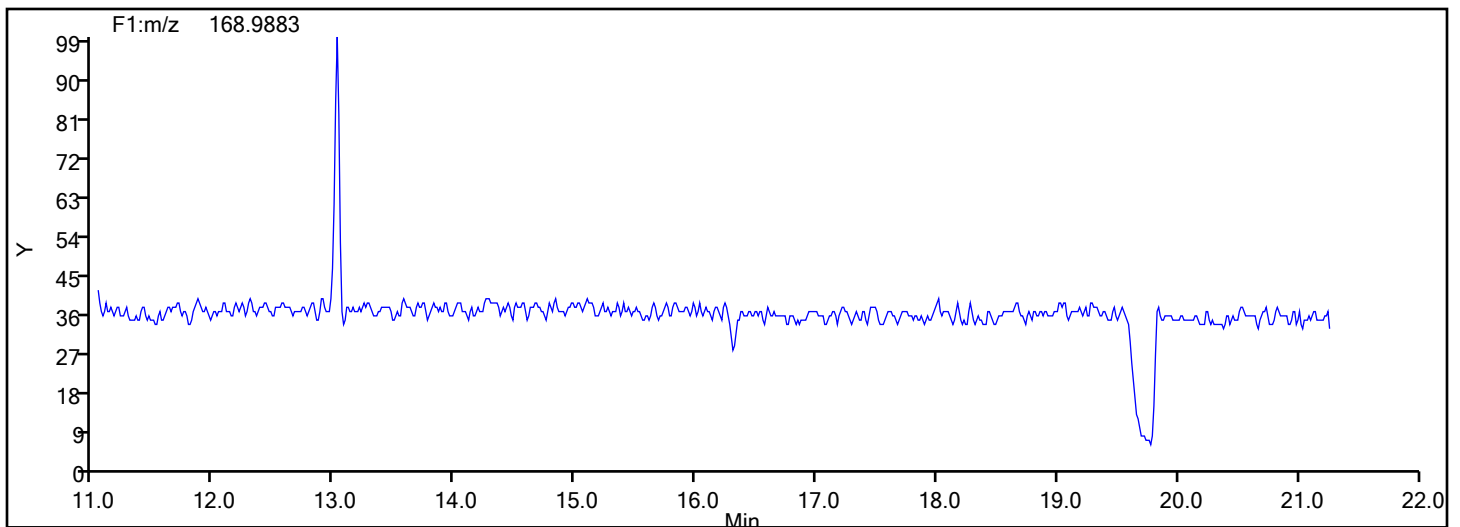


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

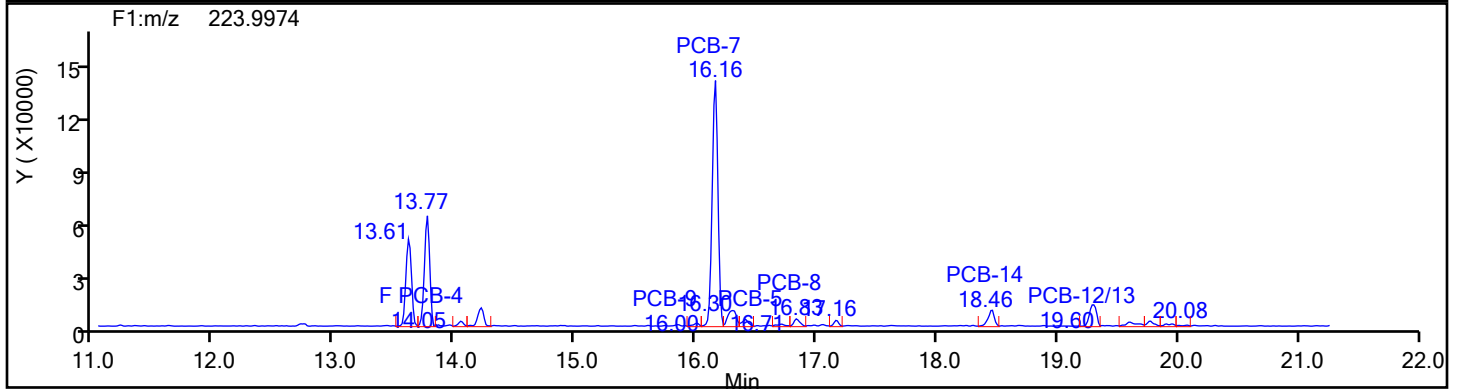
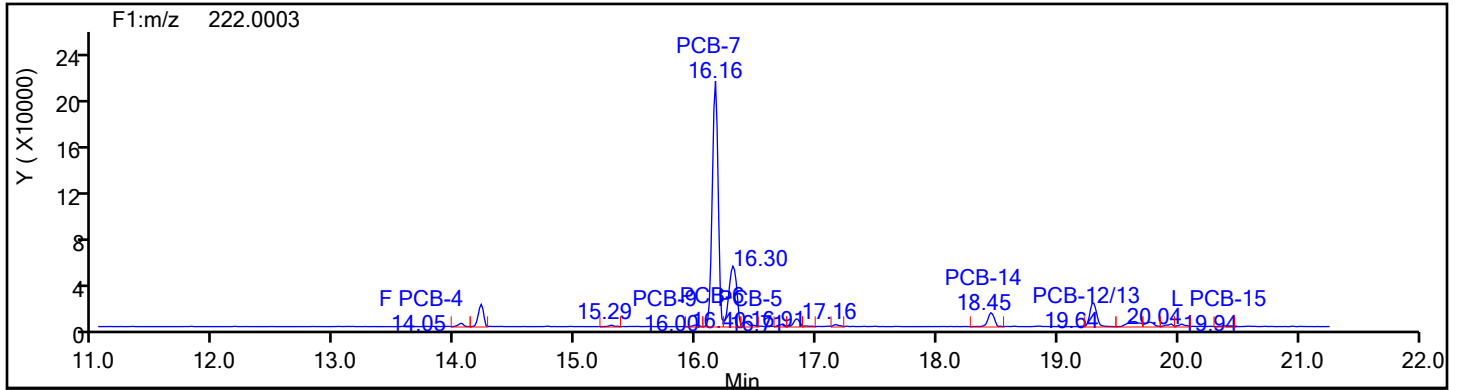


## MoPCB F1 Lock Mass

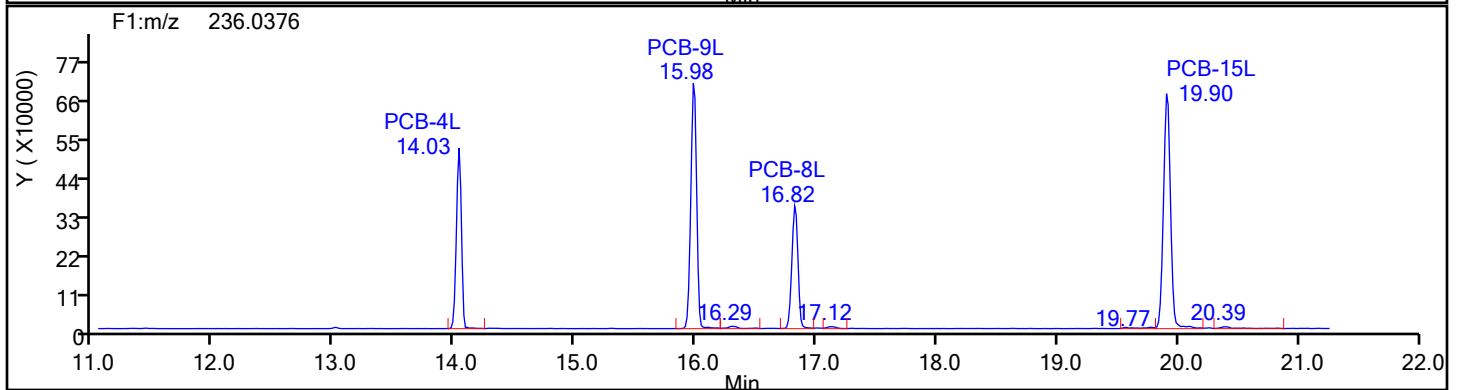
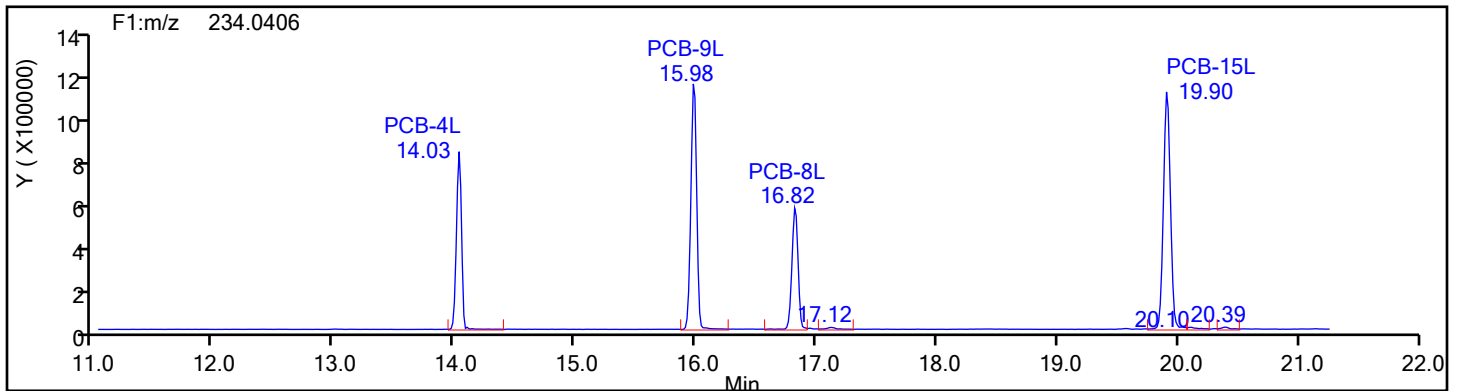


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1

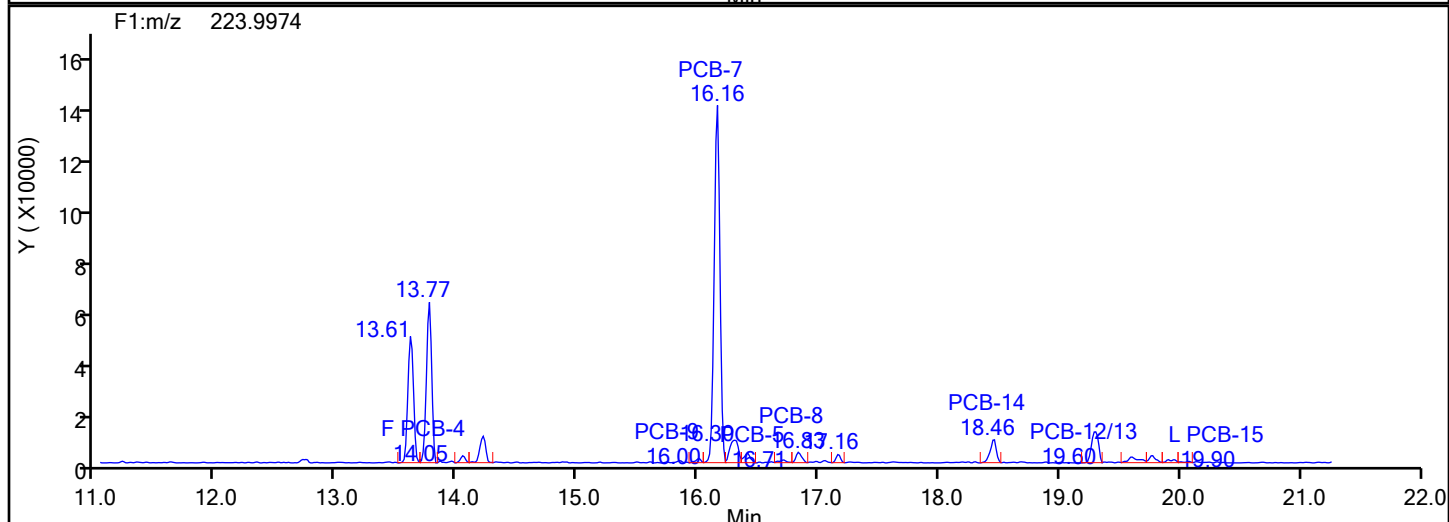
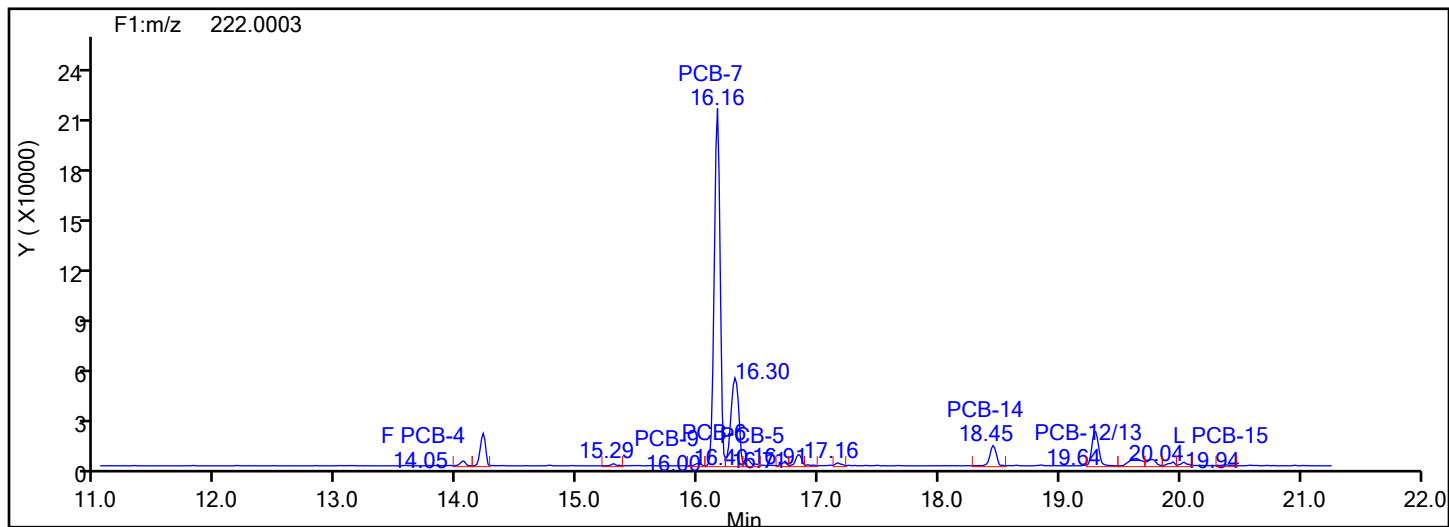


## DiPCB F1 Standards

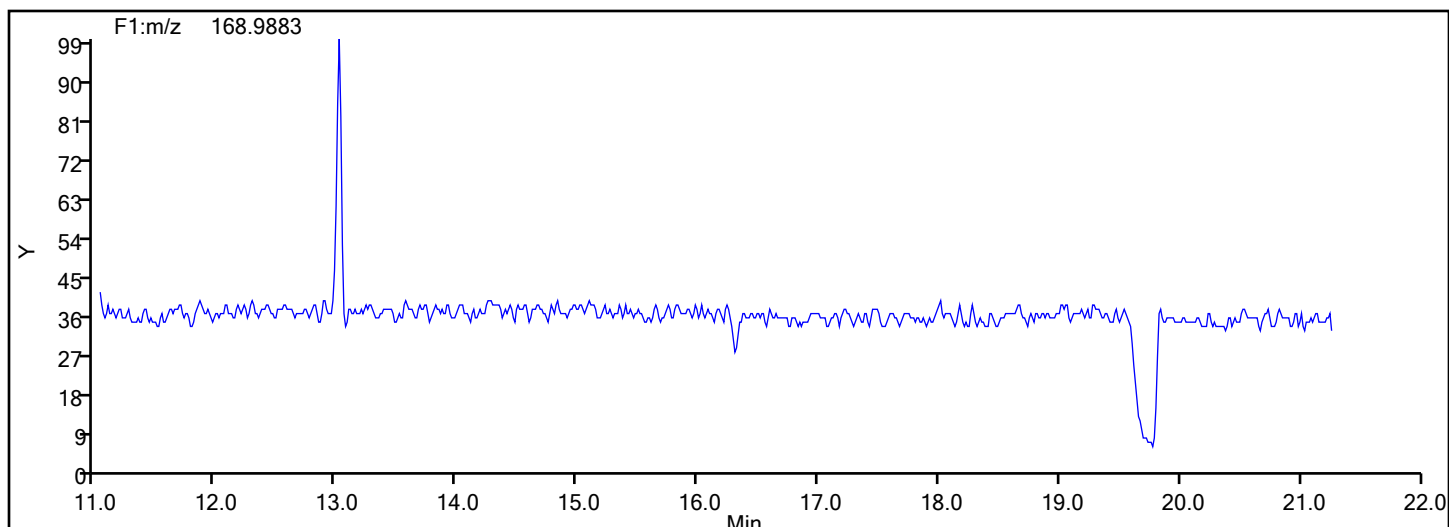


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



## DiPCB F1 Lock Mass





## Eurofins Knoxville

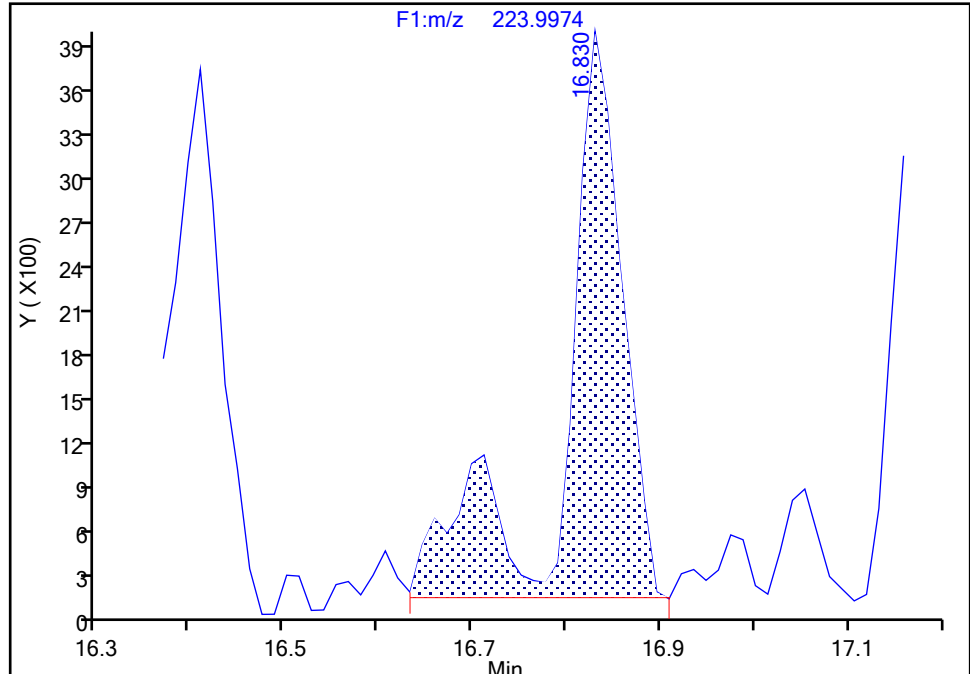
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

PCB-8, CAS: 34883-43-7

Signal: 2

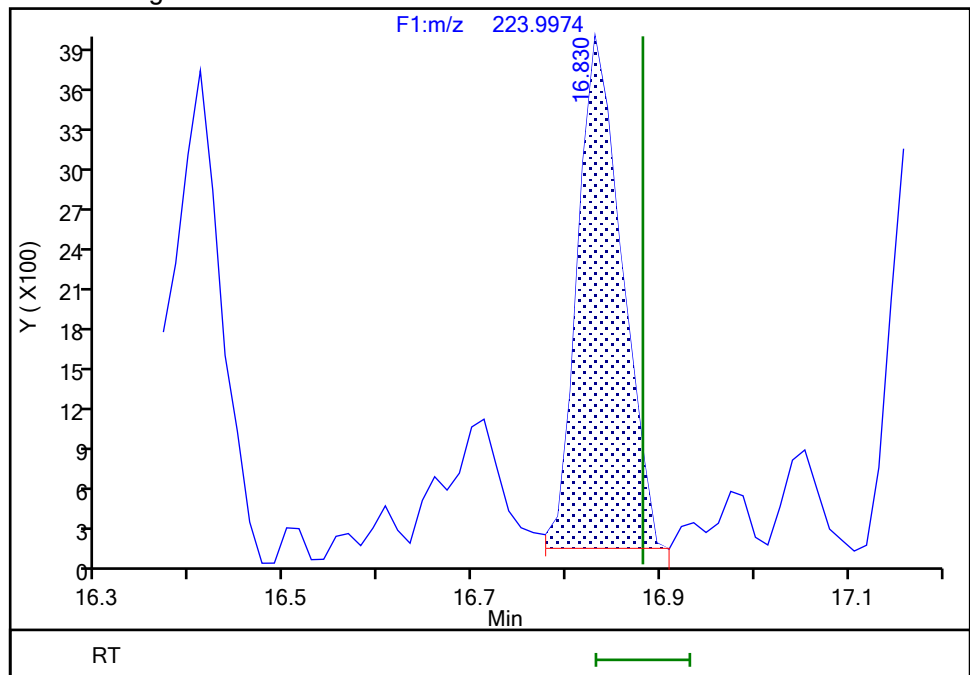
RT: 16.83  
Area: 16710  
Amount: 0.486375  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.83  
Area: 12675  
Amount: 0.413422  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 21:27:02 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

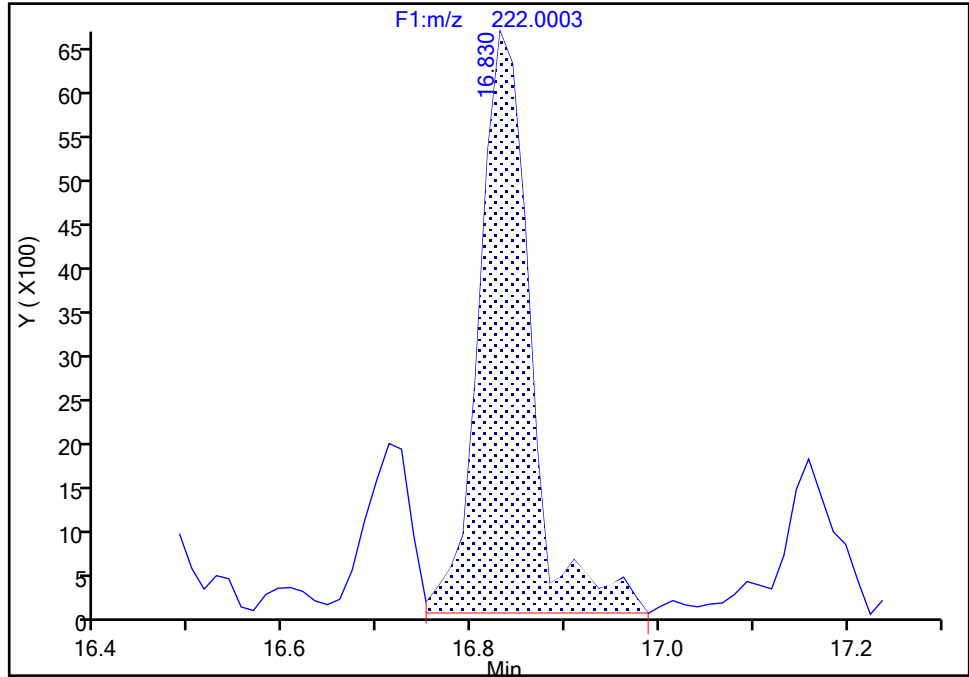
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Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F1(11.07 :21.70 )

PCB-8, CAS: 34883-43-7

Signal: 1

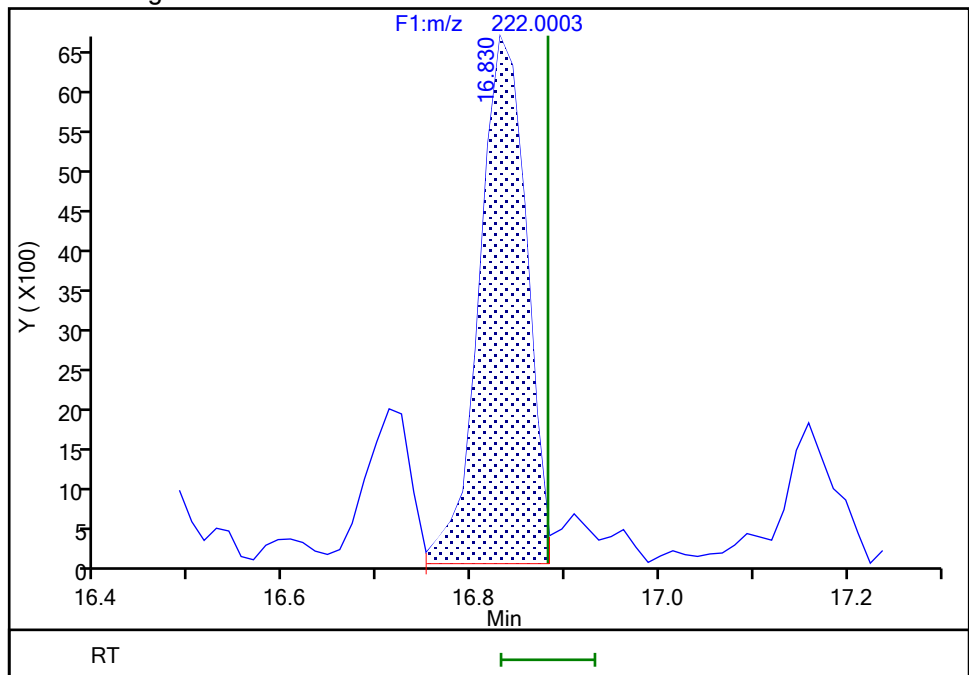
RT: 16.83  
Area: 25172  
Amount: 0.486375  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.83  
Area: 22925  
Amount: 0.413422  
Amount Units: pg/ul

## Manual Integration Results



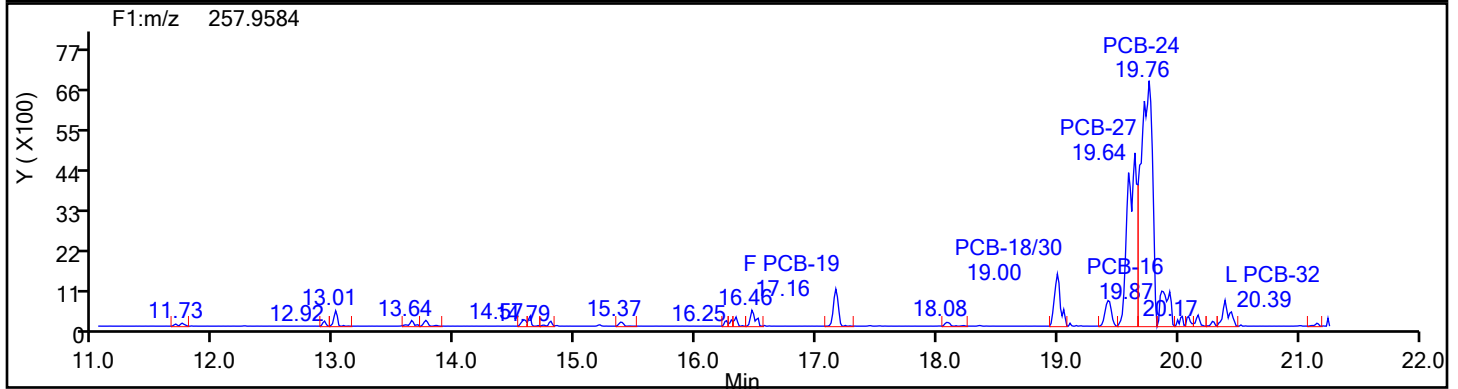
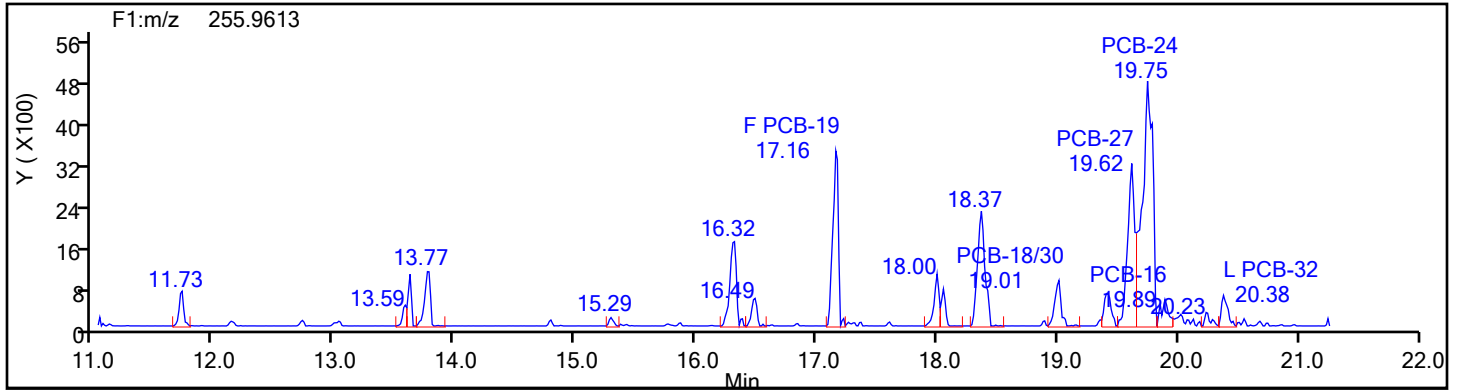
Reviewer: V4XA, 02-Jul-2024 21:27:09 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

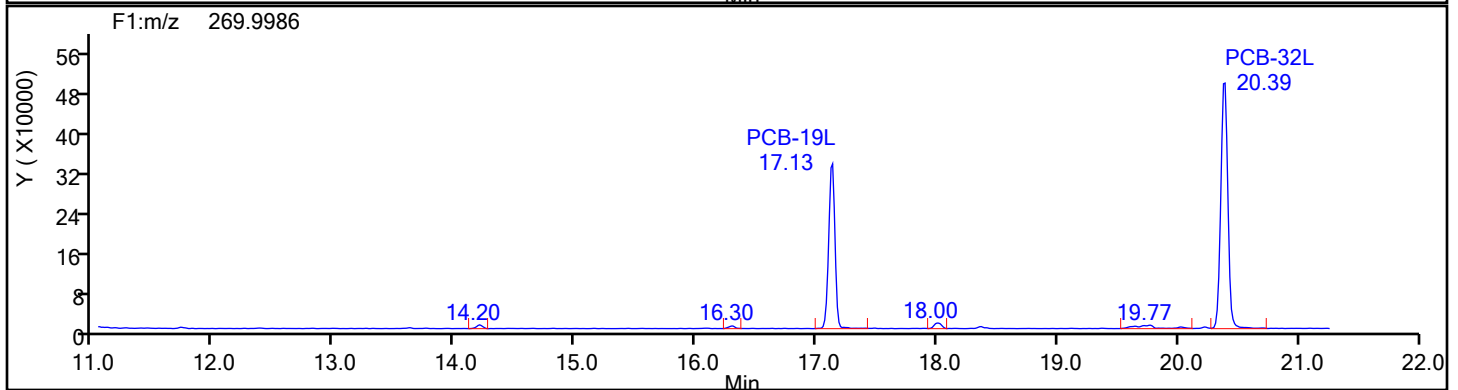
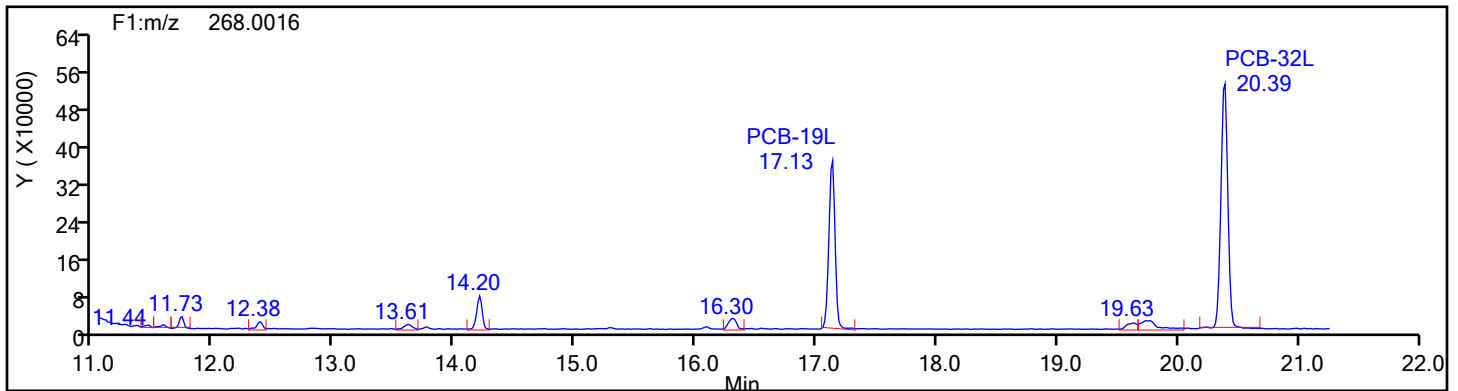
Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1

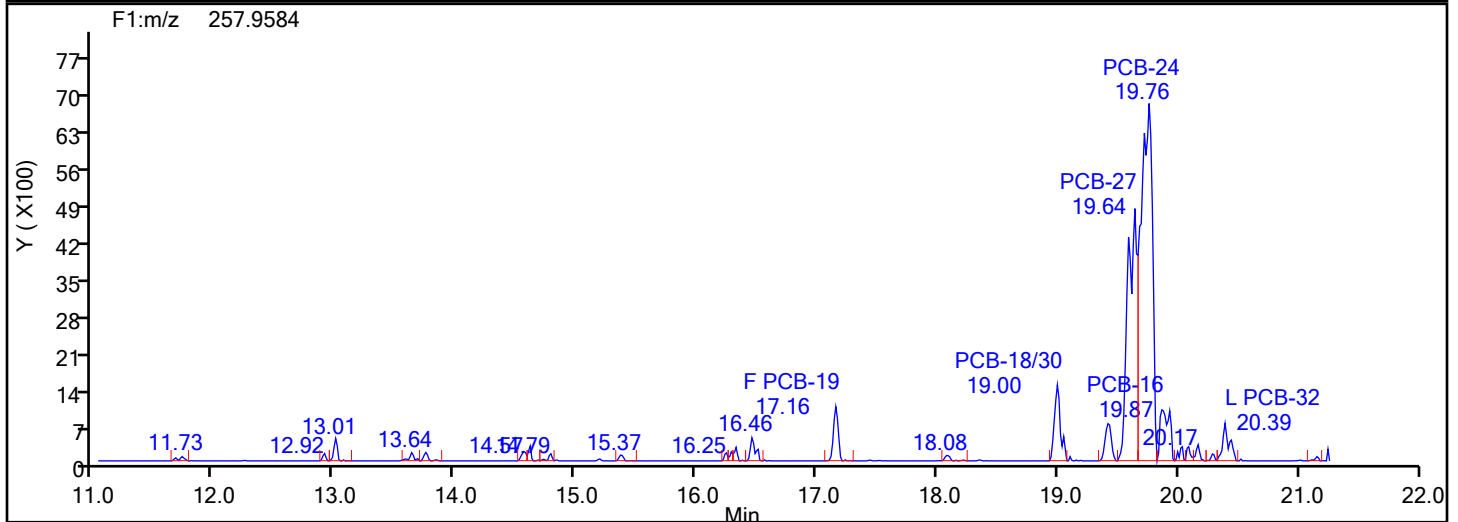
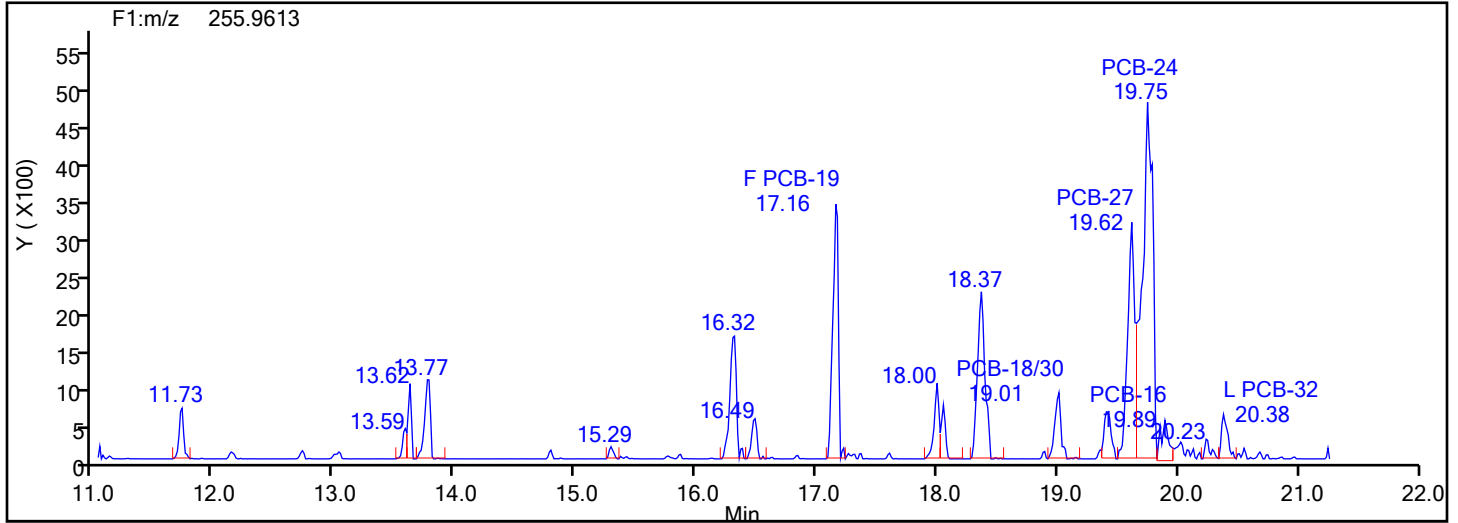


## TriPCB F1 Standards

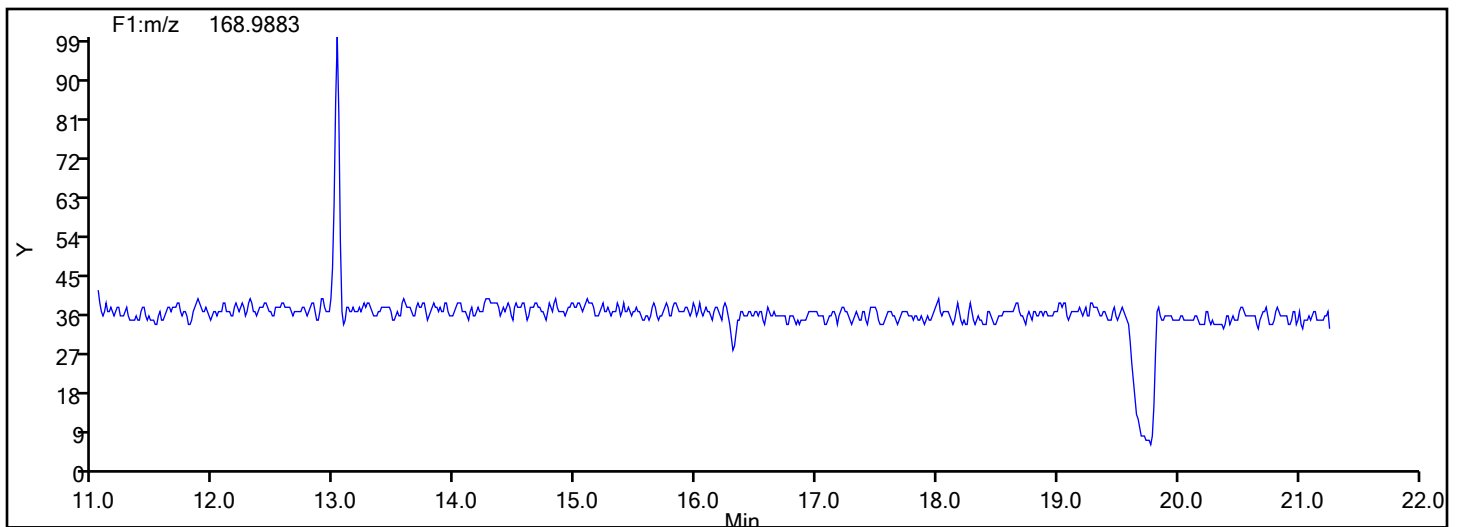


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Lock Mass



## Eurofins Knoxville

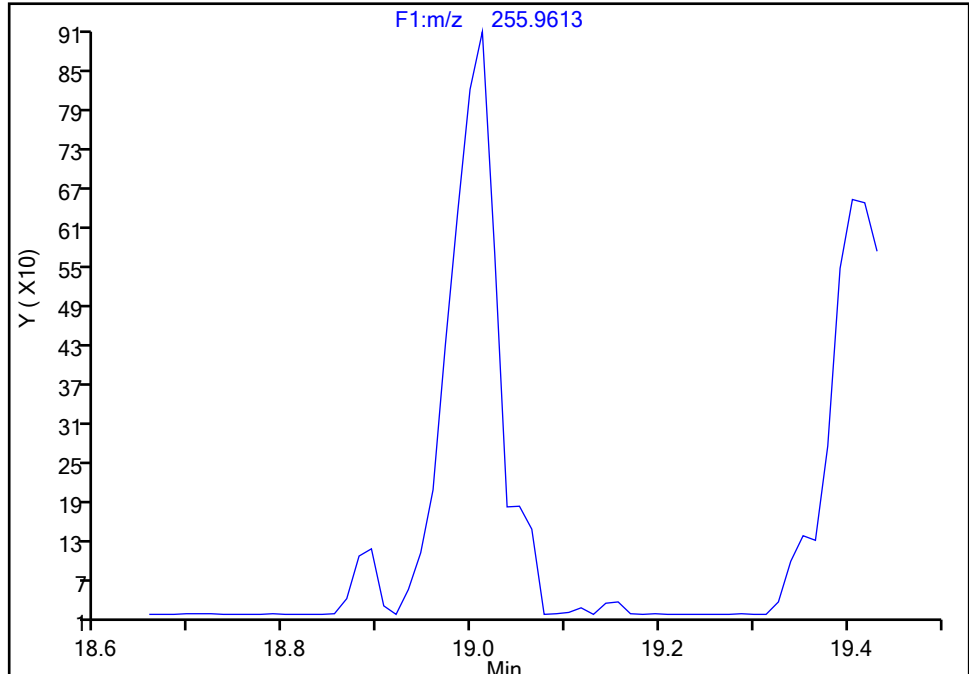
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1\IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

**PCB-18/30, CAS: STL01798**

Signal: 1

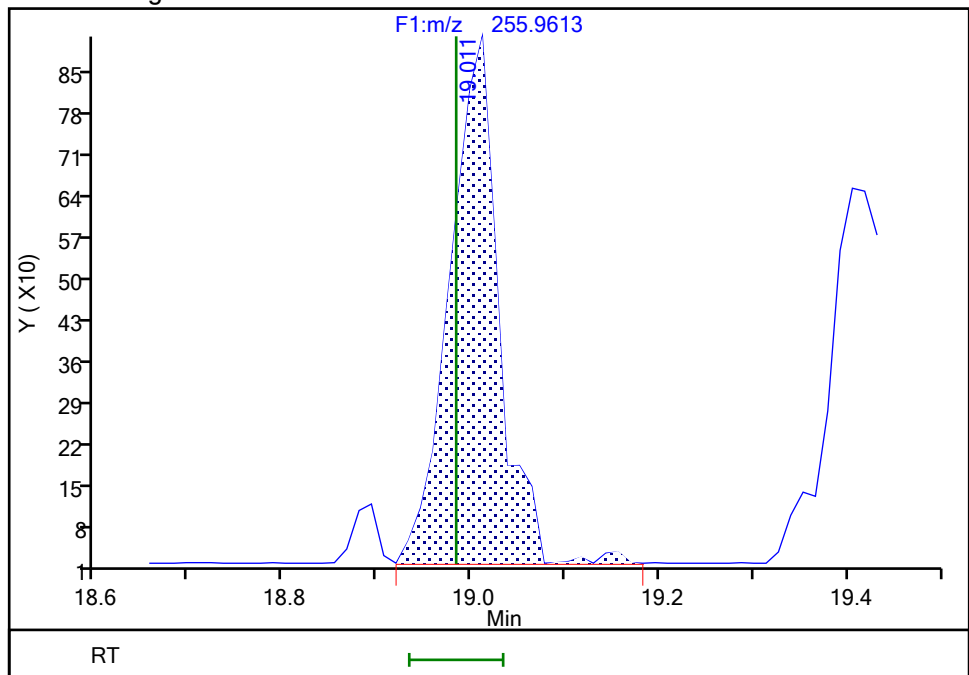
Not Detected  
Expected RT: 18.98

## Processing Integration Results



RT: 19.01  
Area: 3230  
Amount: 0.192927  
Amount Units: pg/ul

## Manual Integration Results



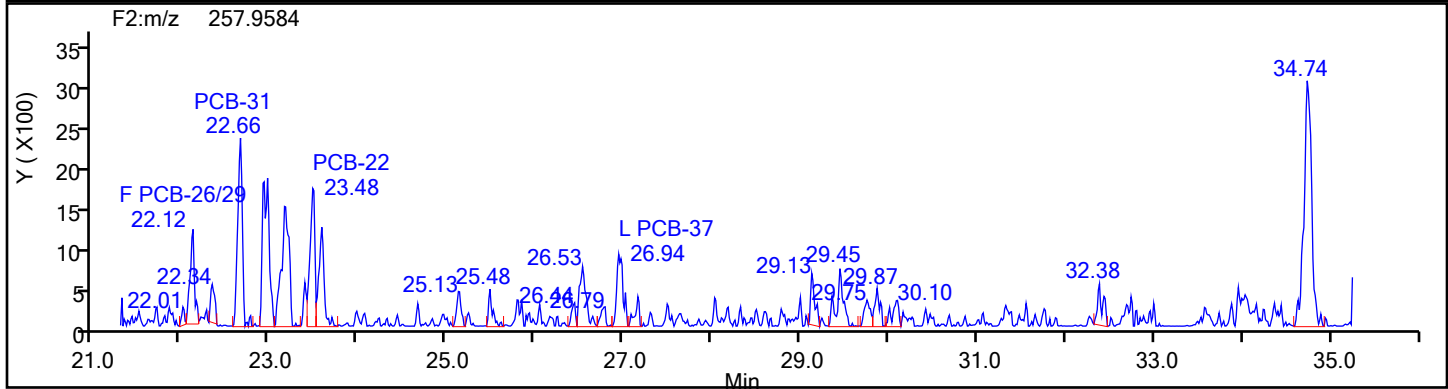
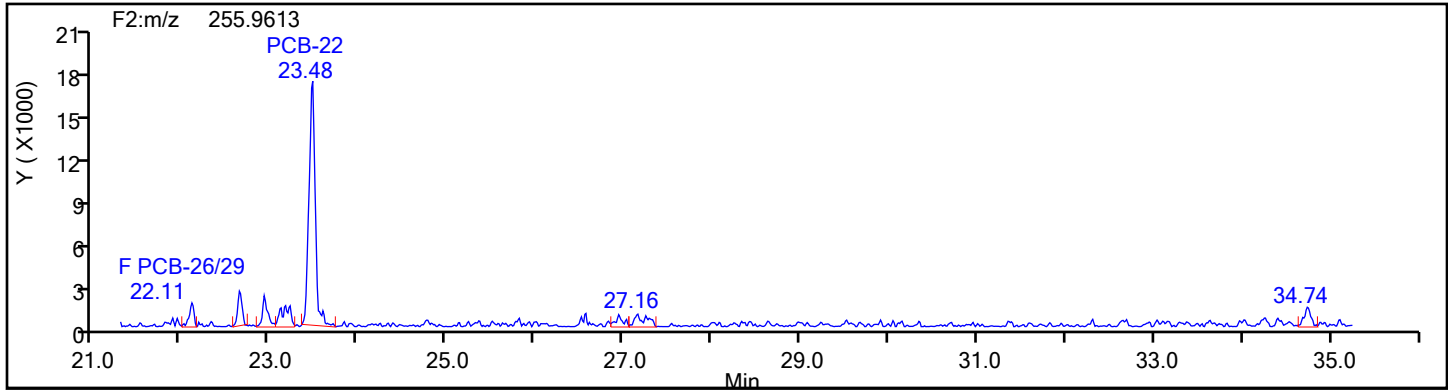
Reviewer: V4XA, 02-Jul-2024 21:27:44 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

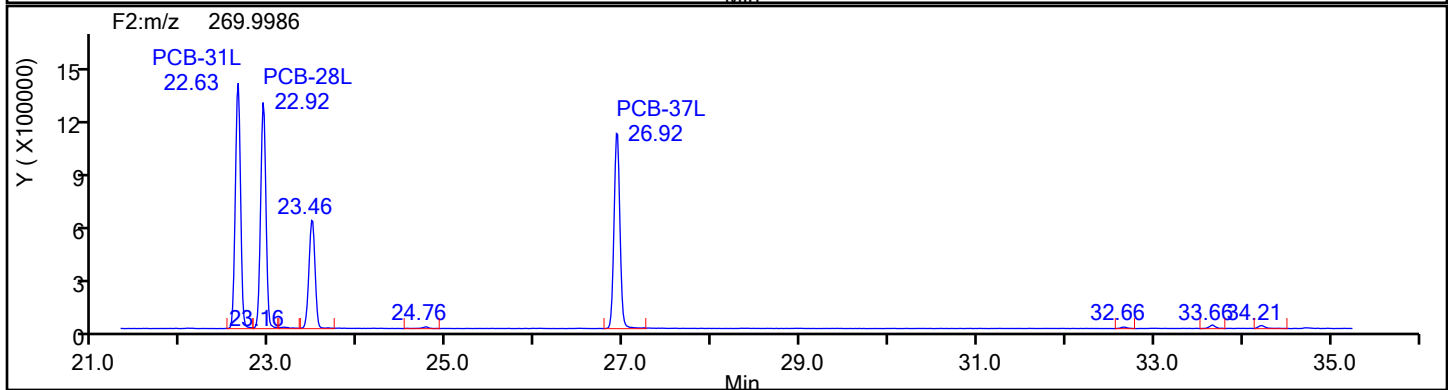
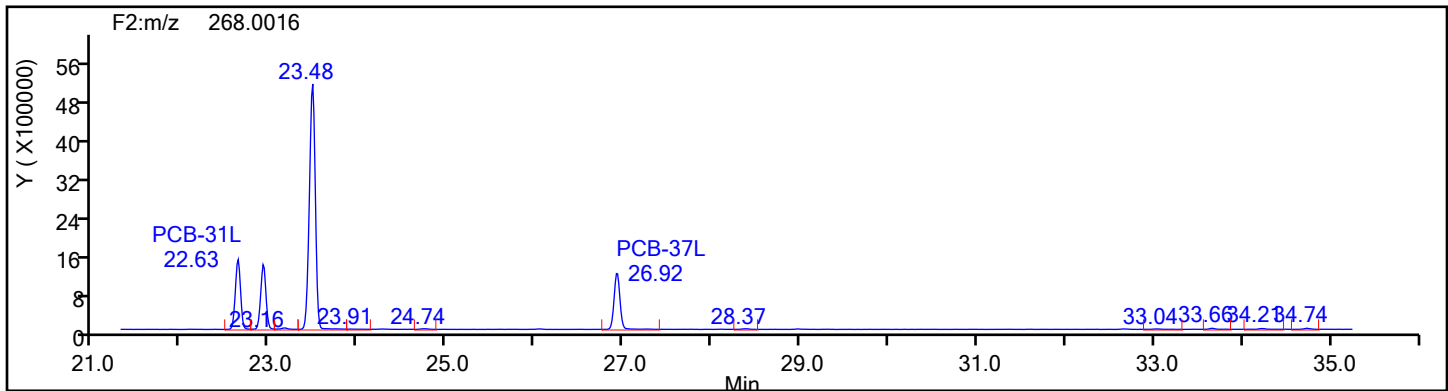
Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

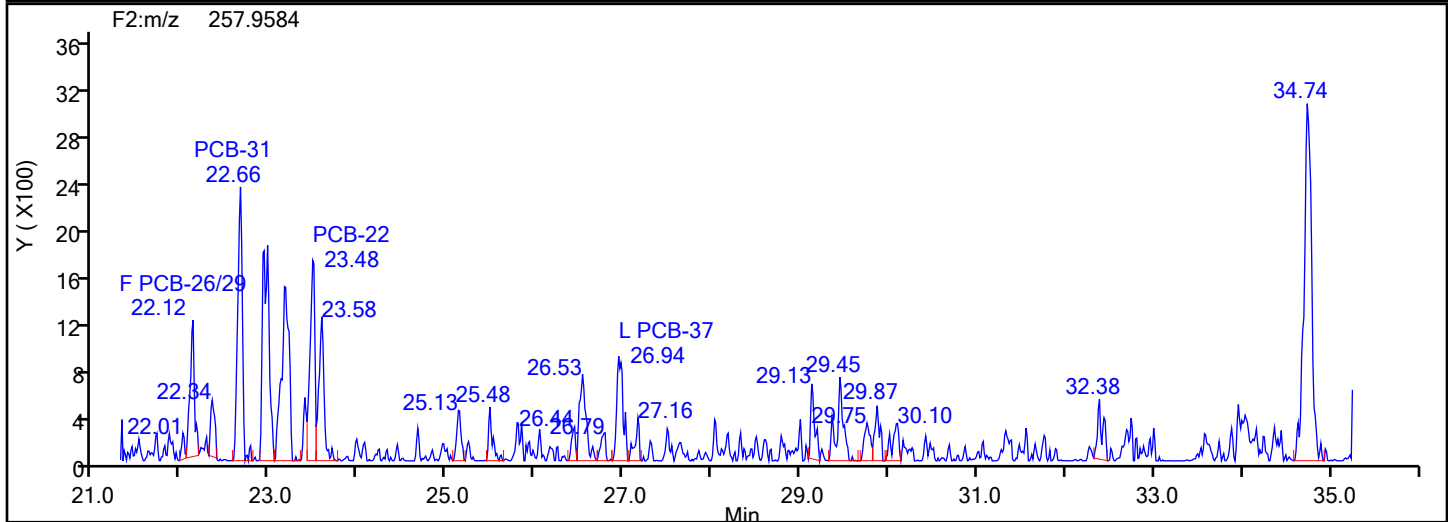
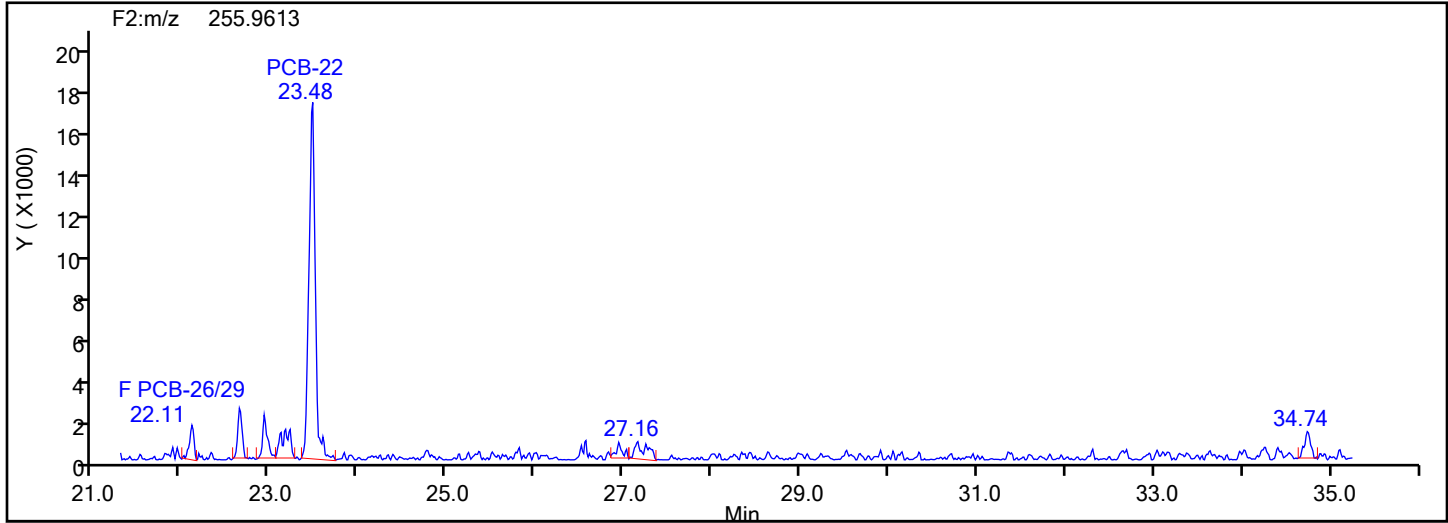


## TriPCB F2 Standards

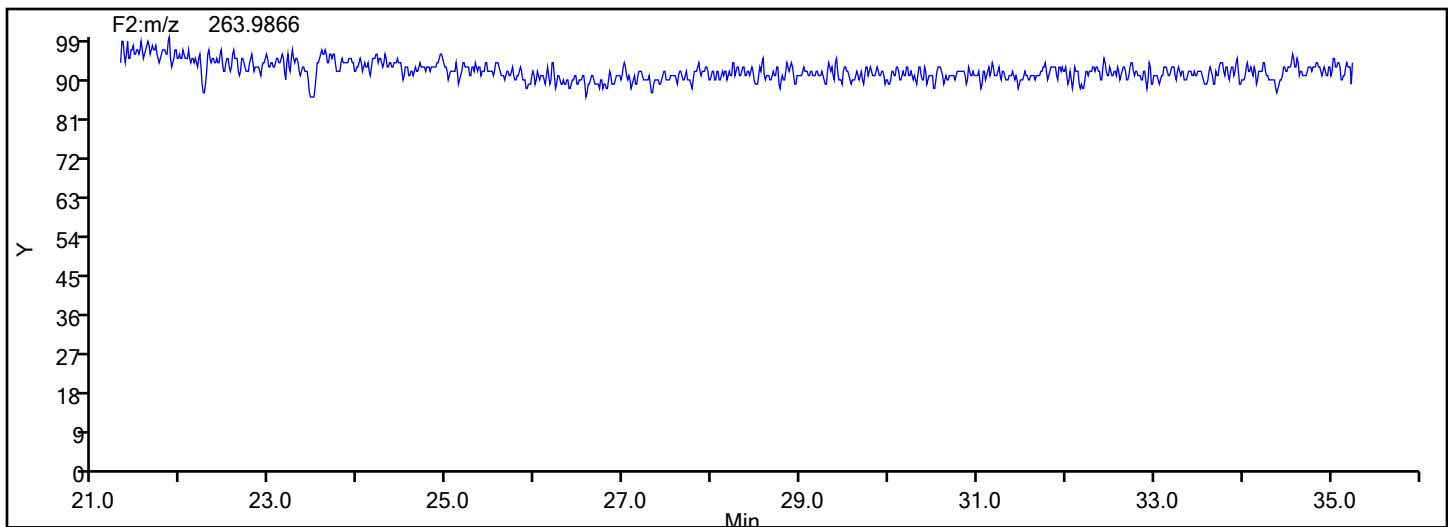


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2



## TriPCB F2 Lock Mass



## Eurofins Knoxville

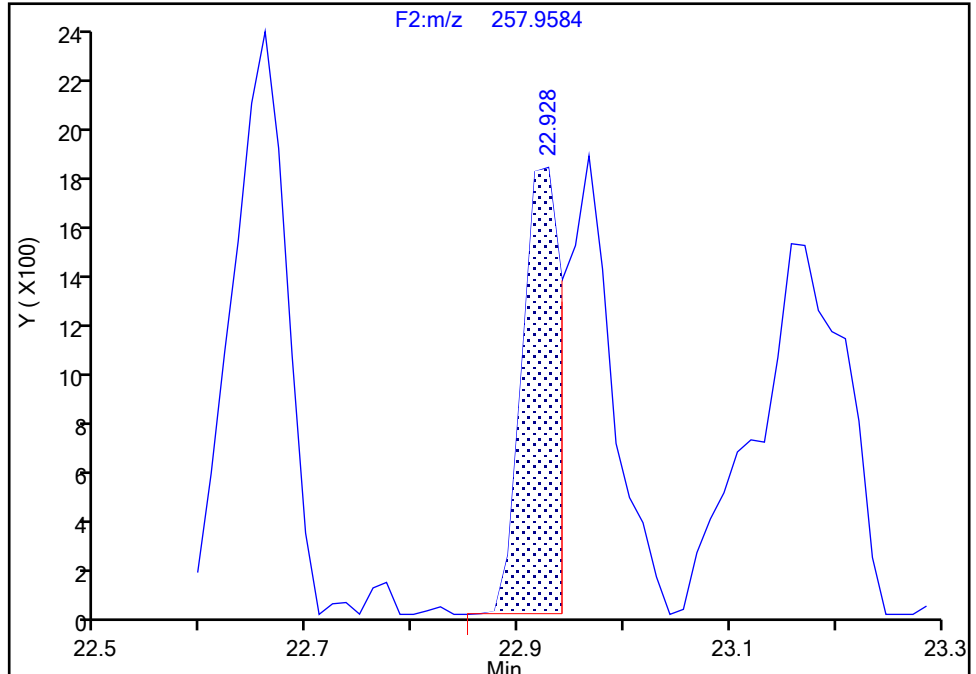
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

PCB-20/28, CAS: STL01799

Signal: 2

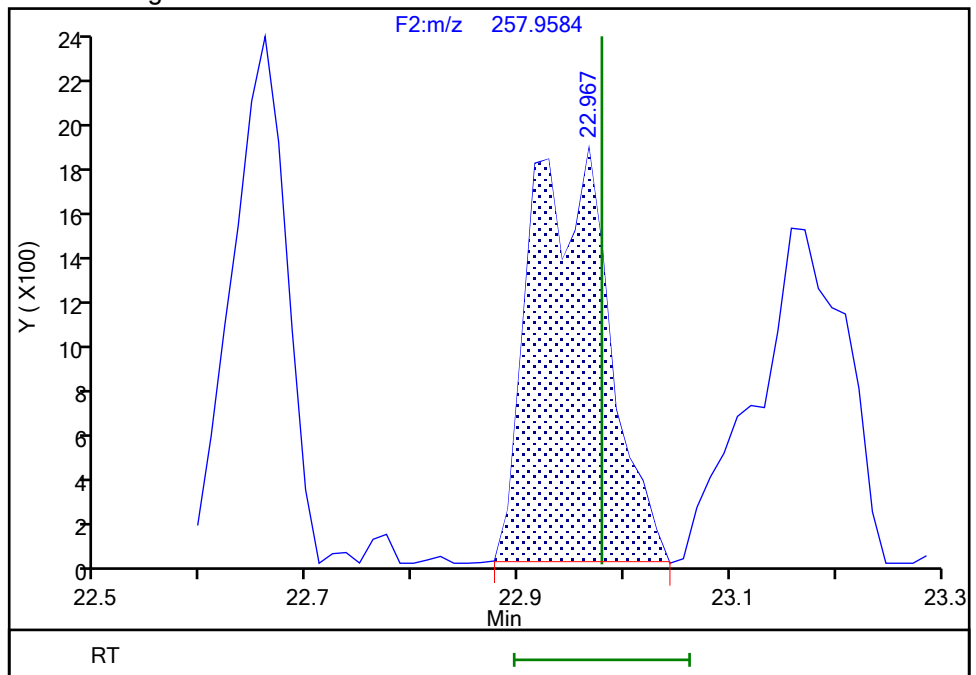
RT: 22.93  
Area: 4149  
Amount: 0.101370  
Amount Units: pg/ul

## Processing Integration Results



RT: 22.97  
Area: 9443  
Amount: 0.144849  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 21:29:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d

Injection Vol: 1.0 ul

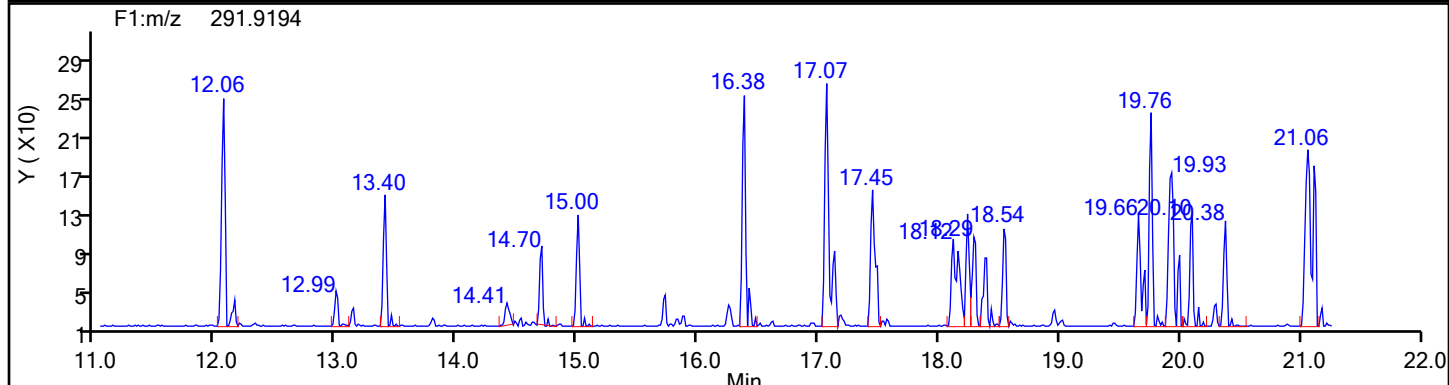
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

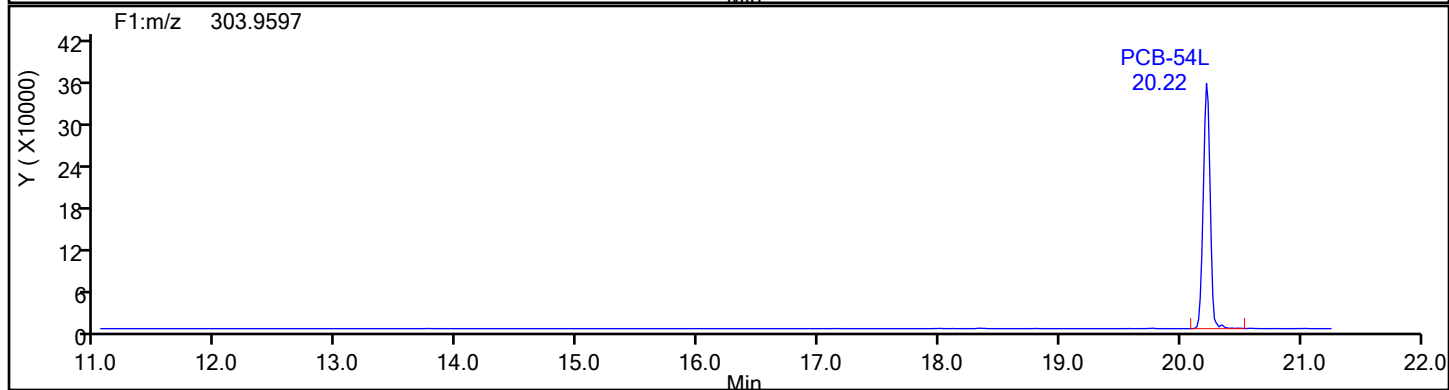
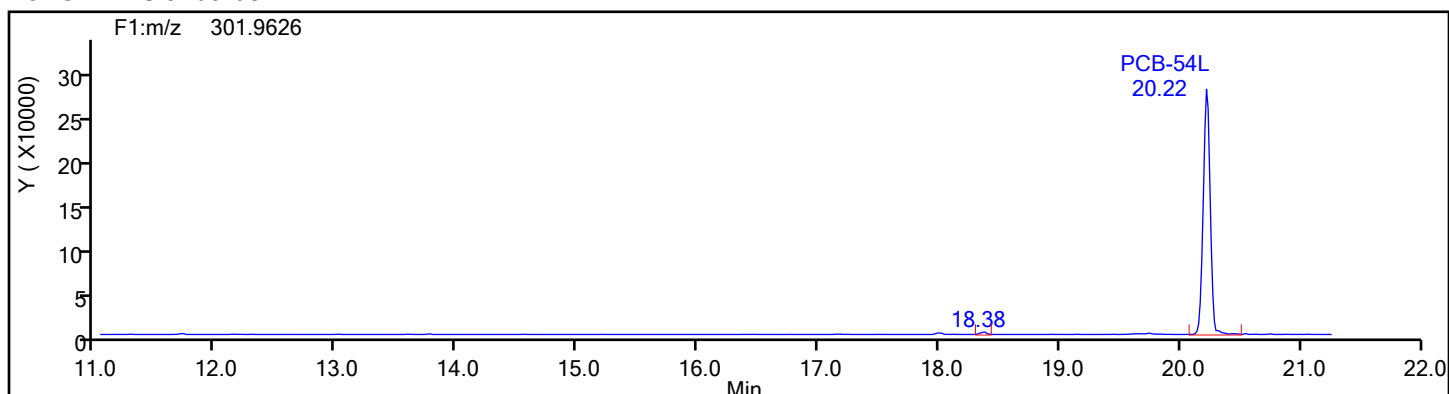
COMBINED

Sample Line#: 6

Column Dia: 0.25 mm

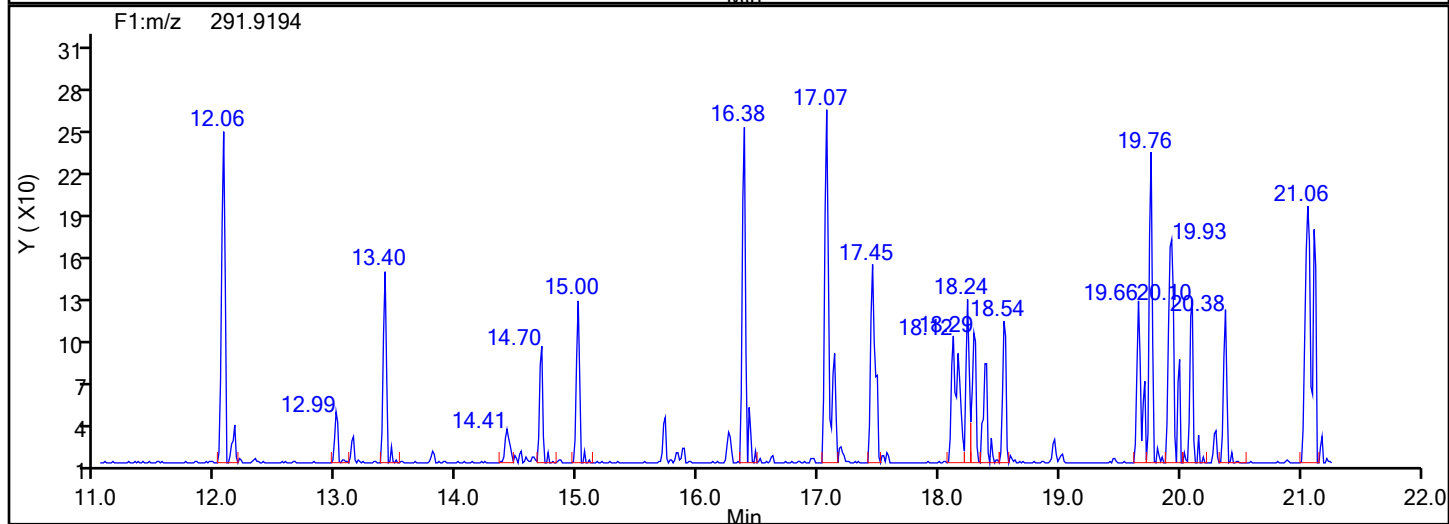
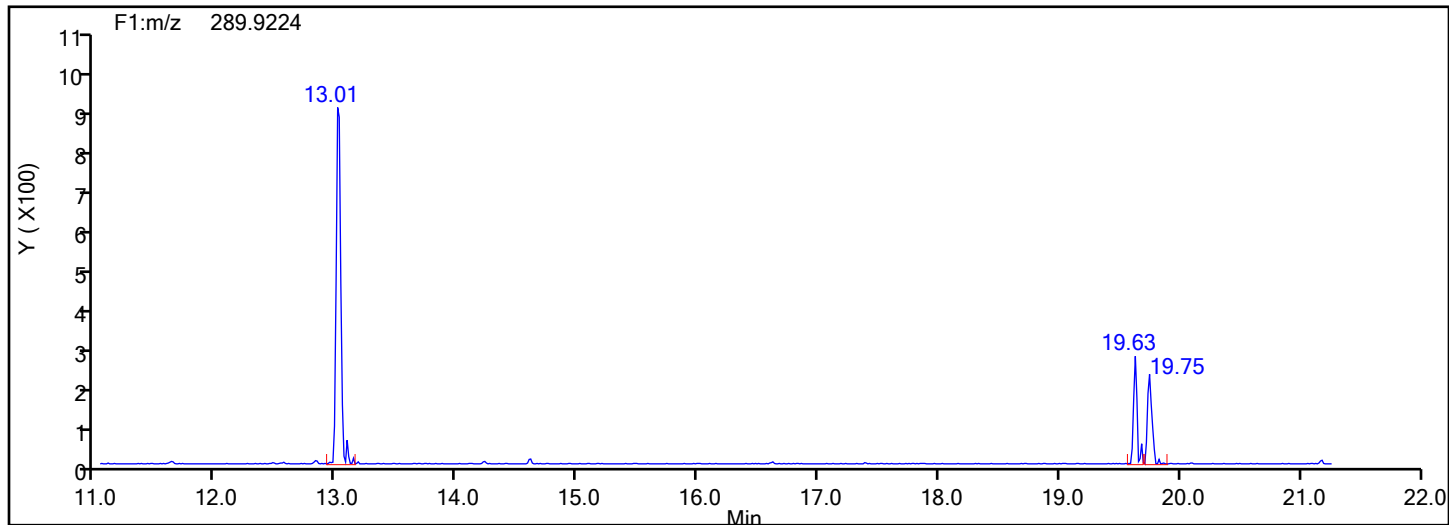


TePCB F1 Standards

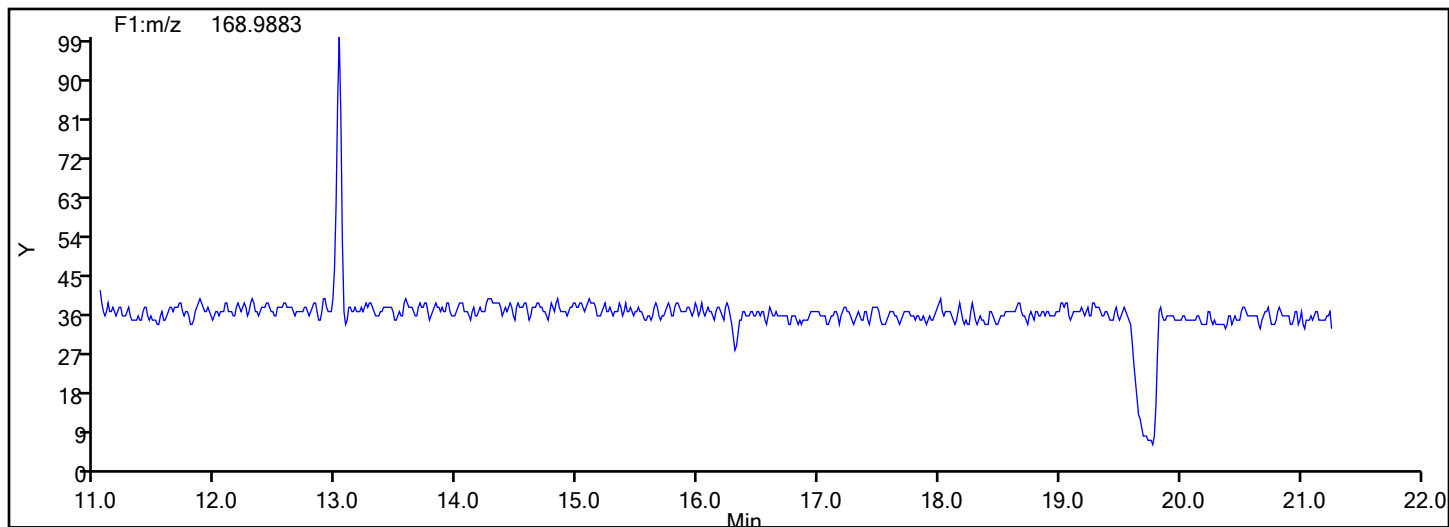


## Eurofins Knoxville

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Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

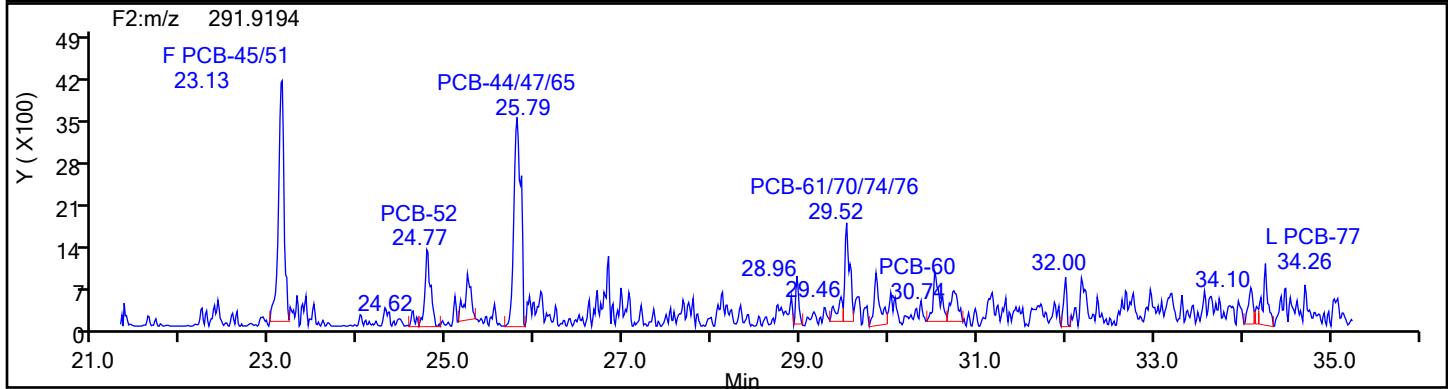
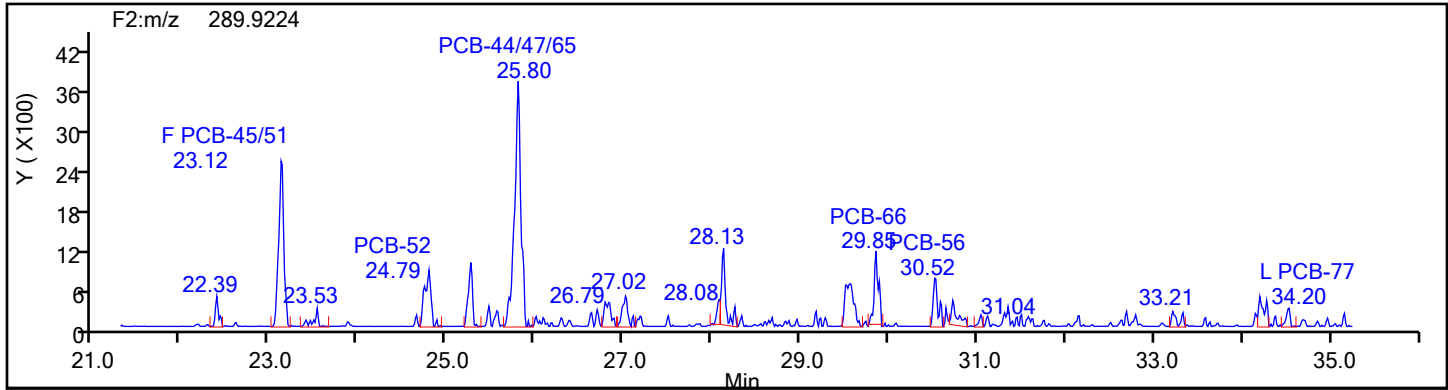


## TePCB F1 Lock Mass

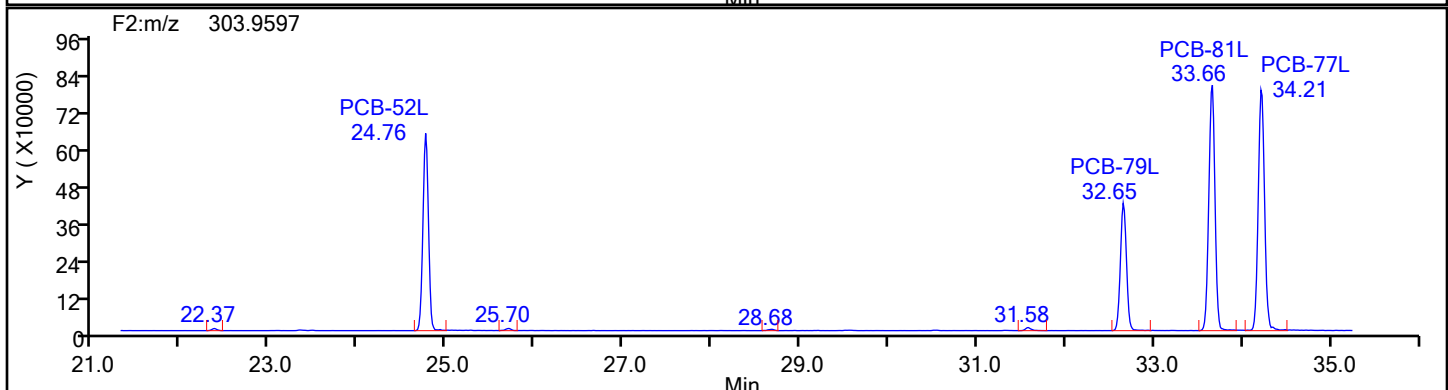
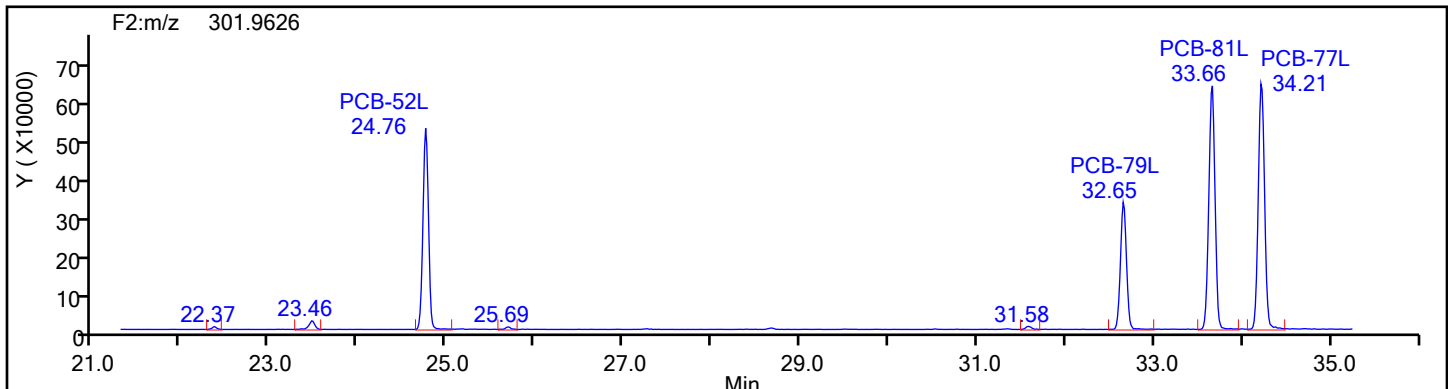


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

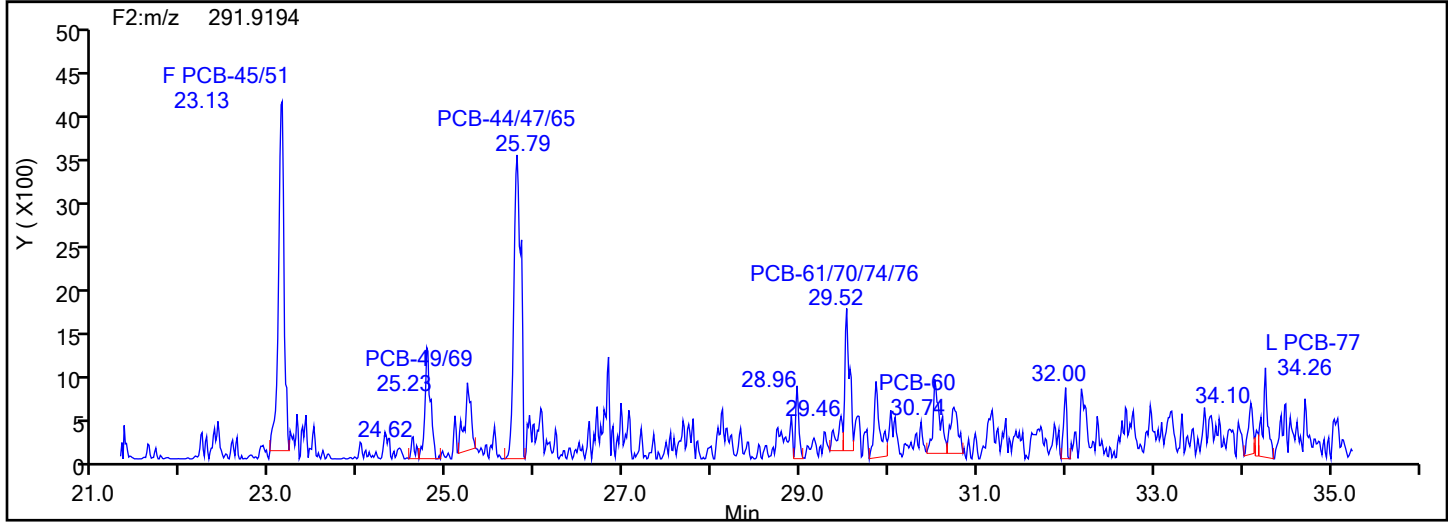
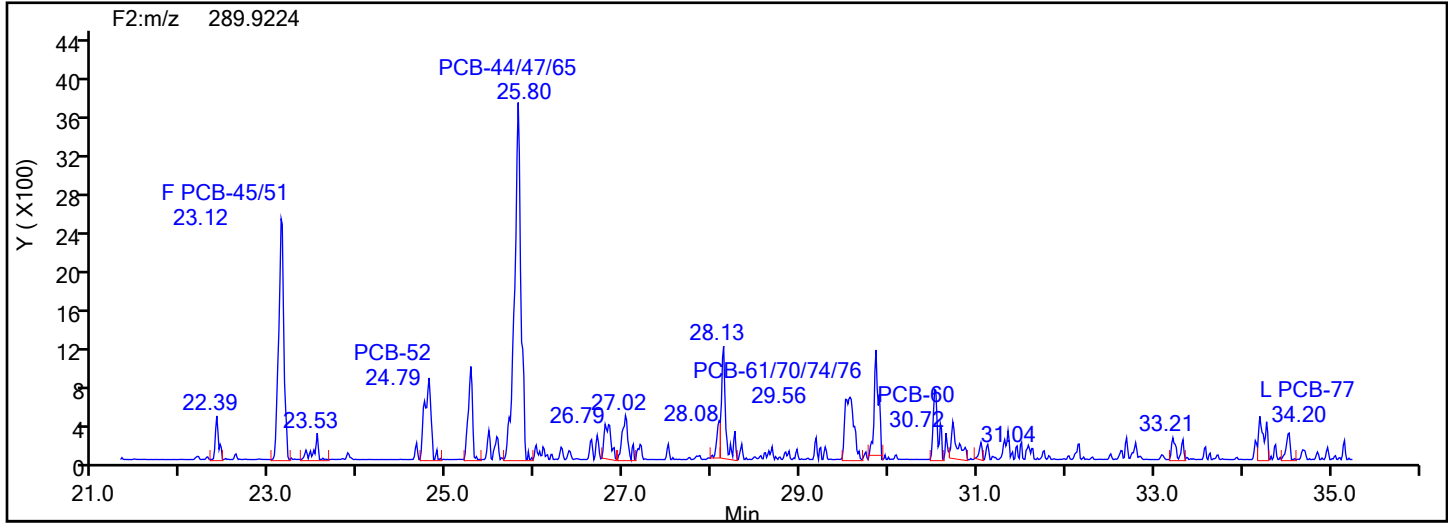


## TePCB F2 Standards

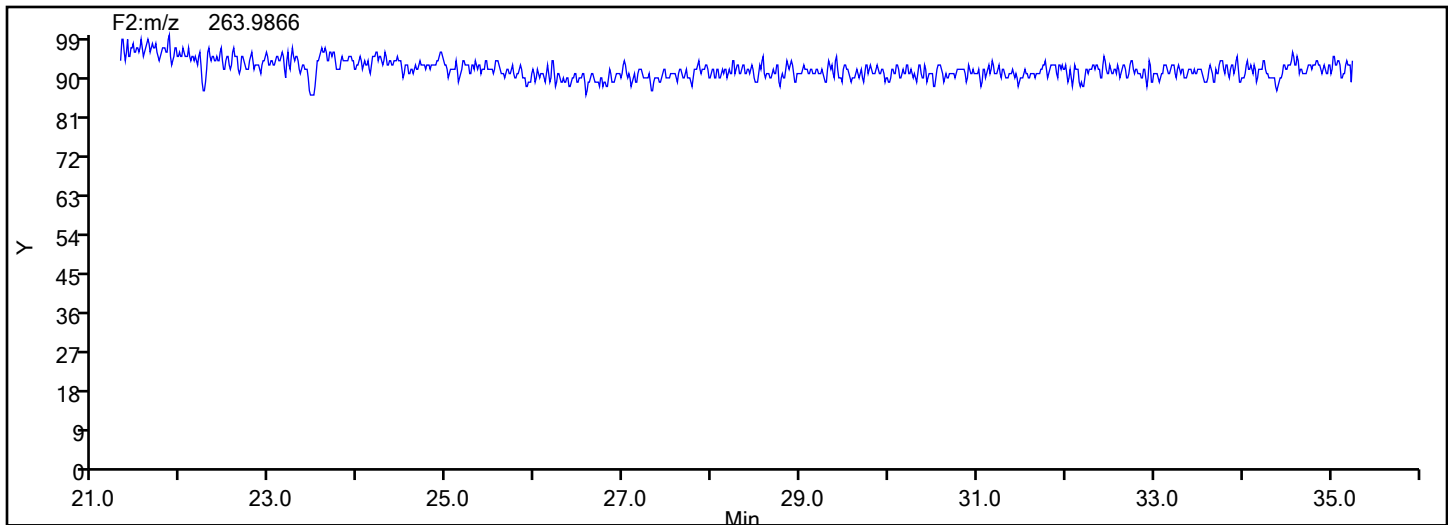


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

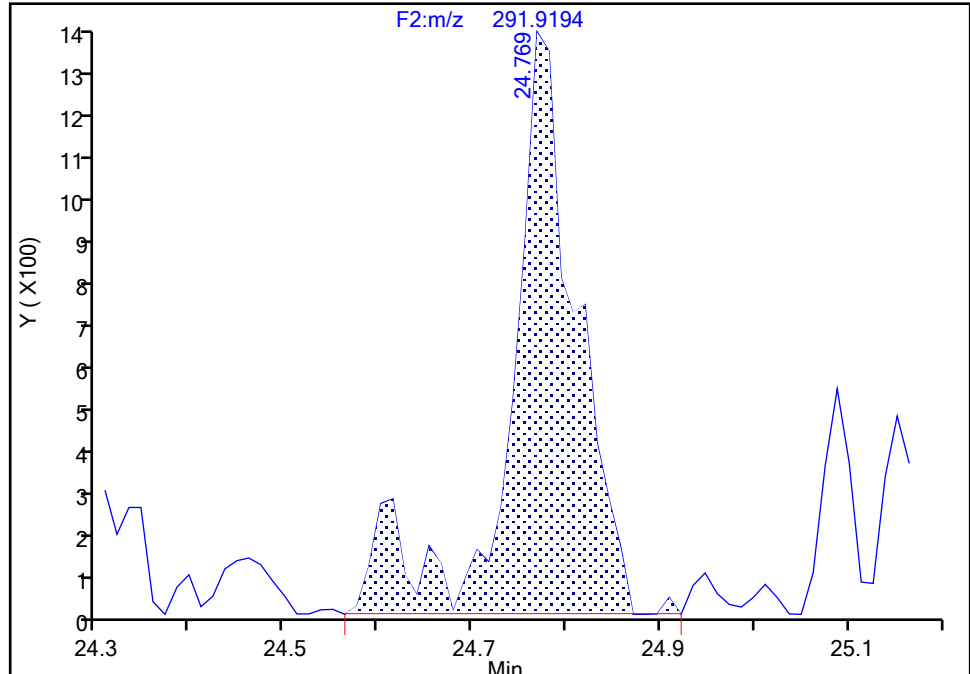
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1\IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

PCB-52, CAS: 35693-99-3

Signal: 2

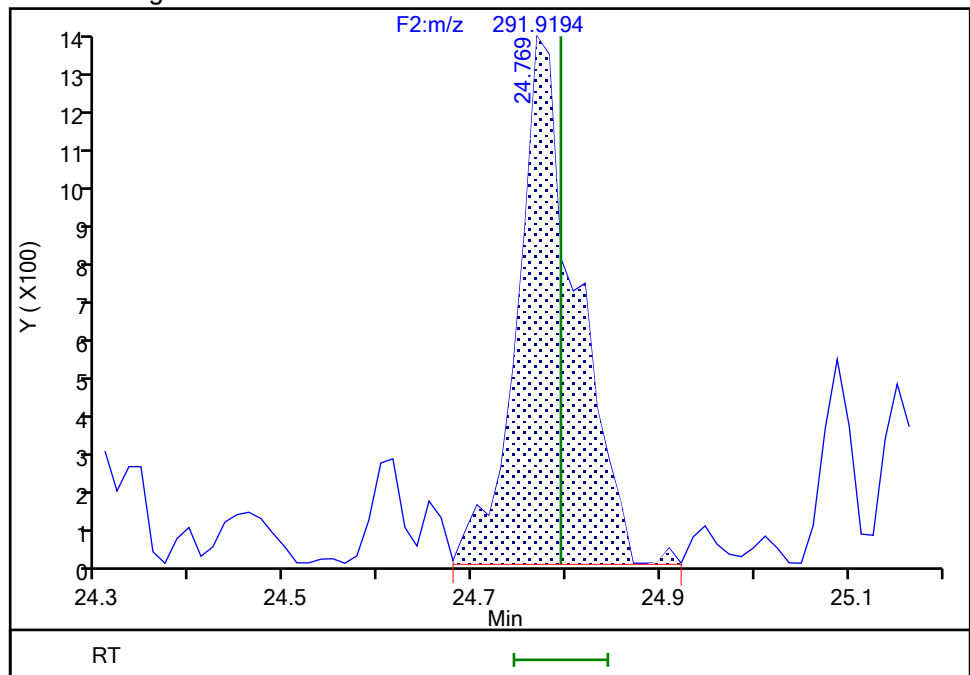
RT: 24.77  
Area: 6366  
Amount: 0.166200  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.77  
Area: 5586  
Amount: 0.153997  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 21:31:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

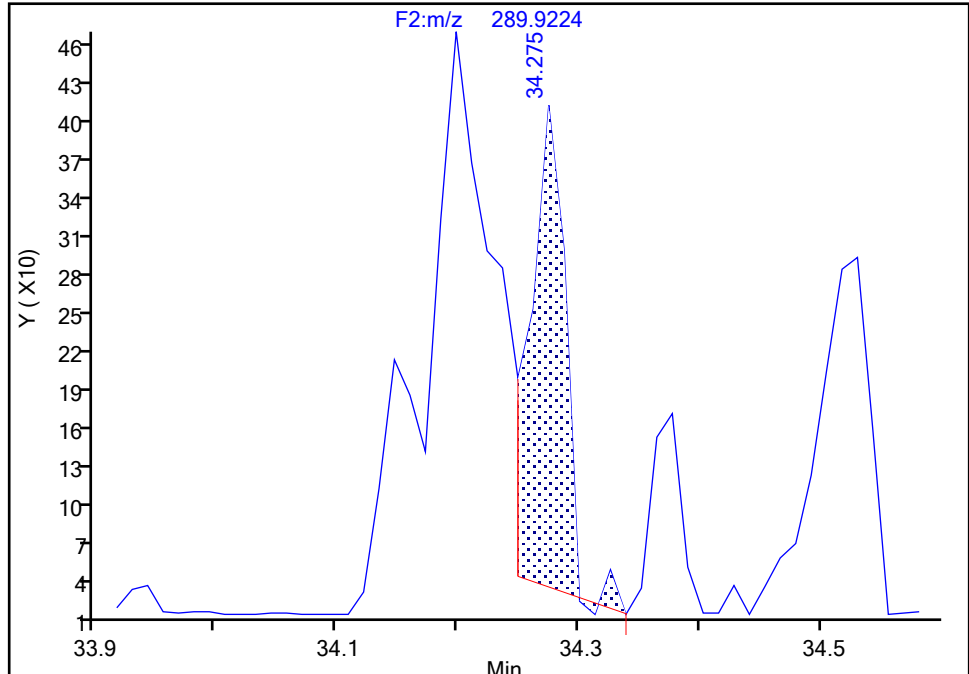
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1\IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

## PCB-77, CAS: 32598-13-3

Signal: 1

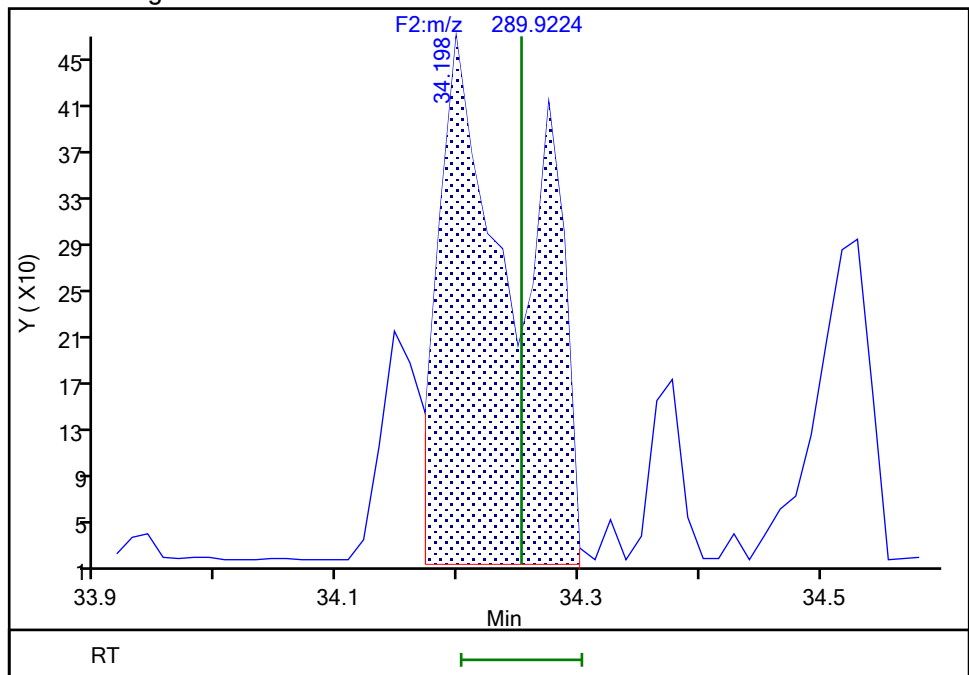
RT: 34.27  
Area: 710  
Amount: 0.039255  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.20  
Area: 2150  
Amount: 0.079629  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 21:32:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

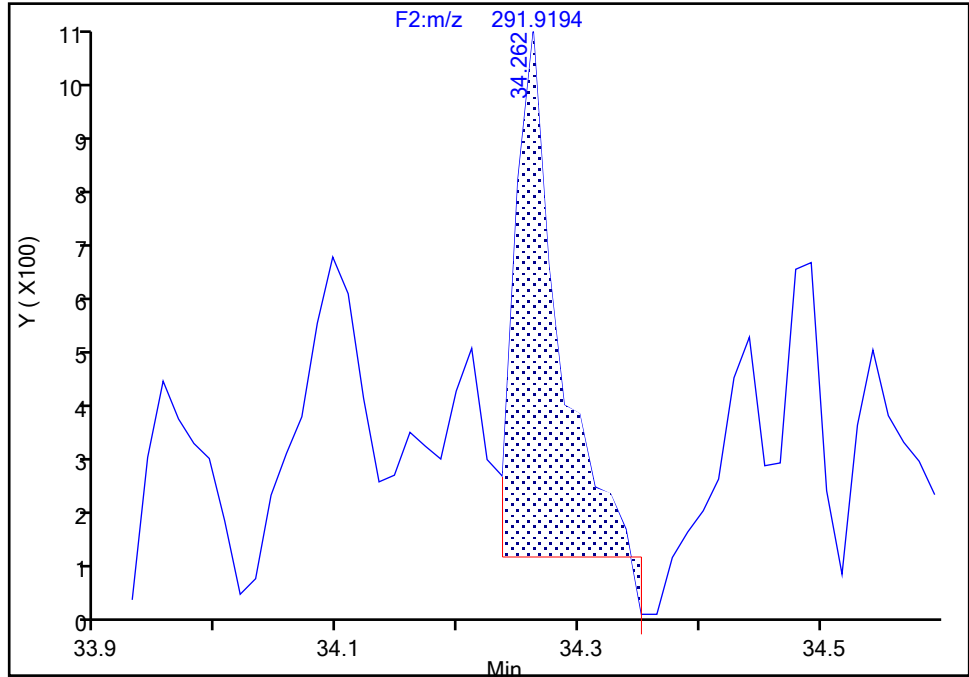
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

PCB-77, CAS: 32598-13-3

Signal: 2

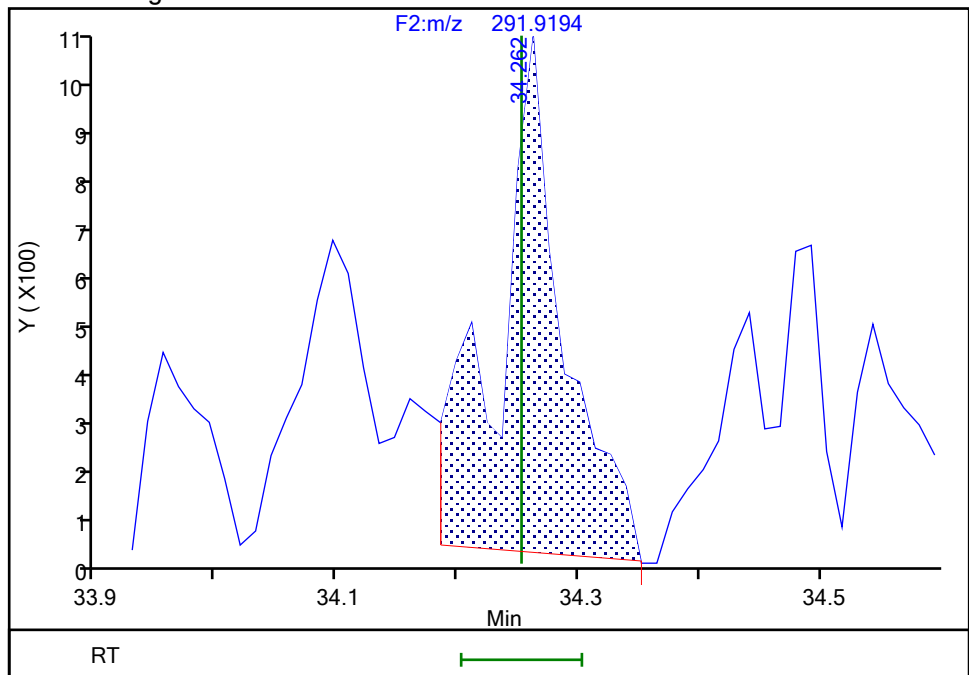
RT: 34.26  
Area: 2275  
Amount: 0.039255  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.26  
Area: 3905  
Amount: 0.079629  
Amount Units: pg/ul

## Manual Integration Results



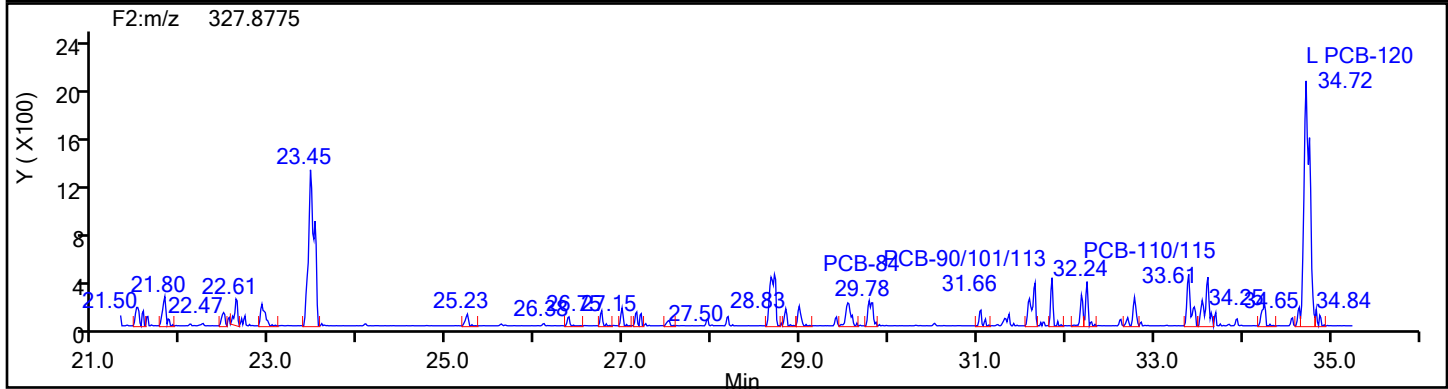
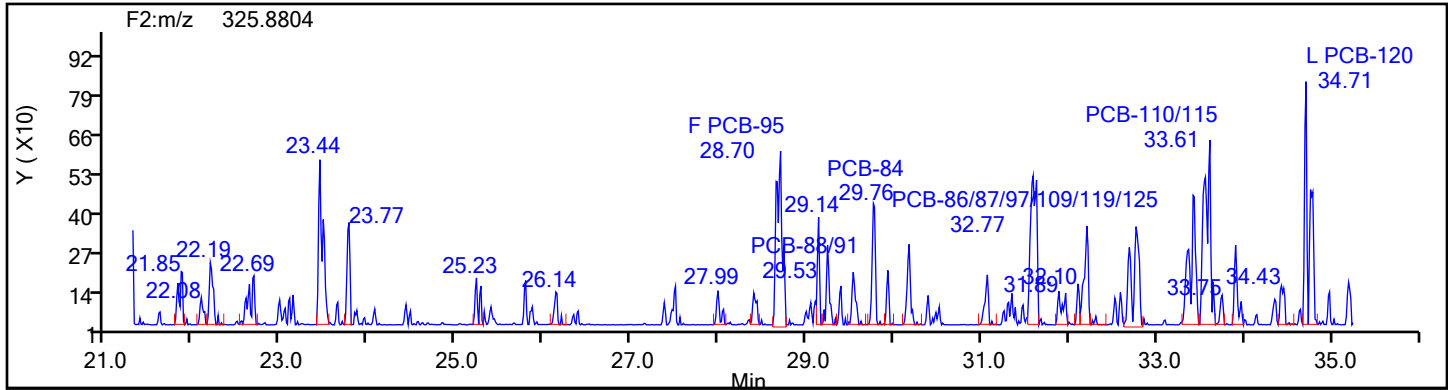
Reviewer: V4XA, 02-Jul-2024 21:32:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

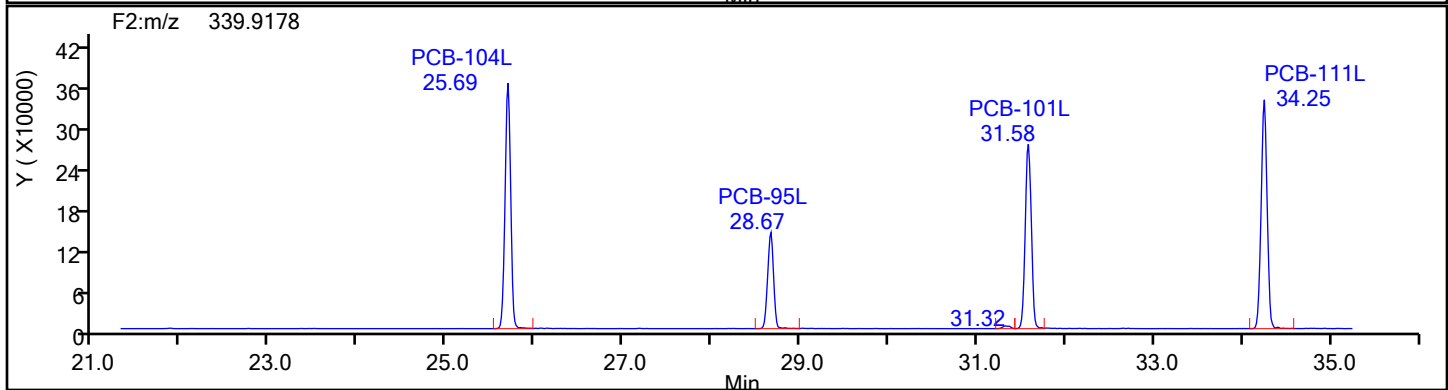
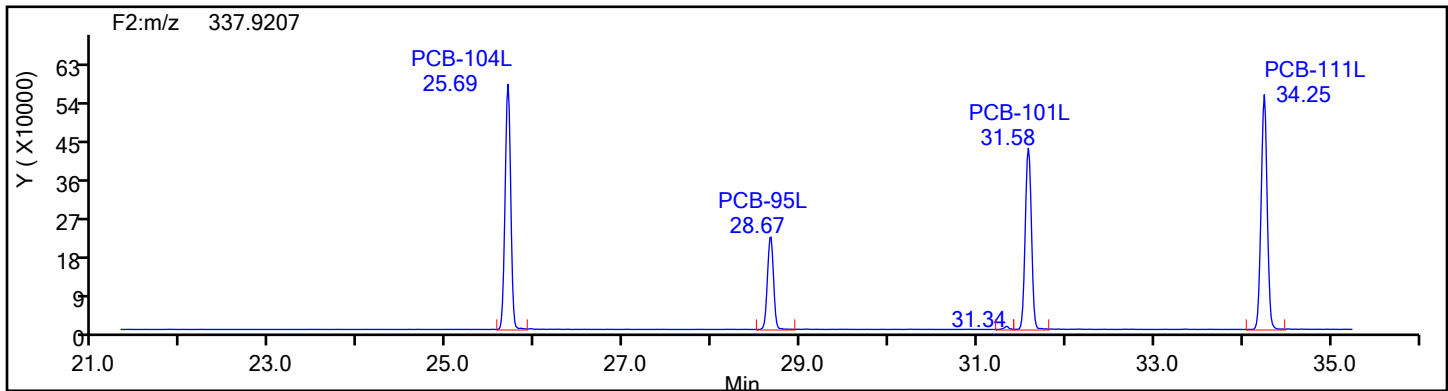
Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



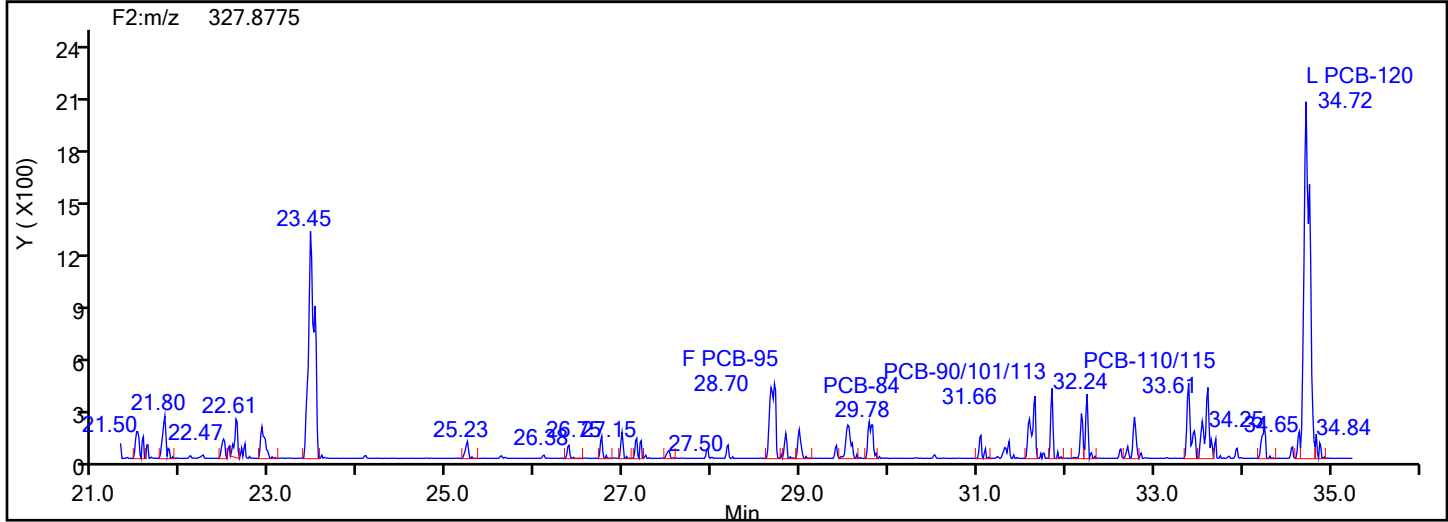
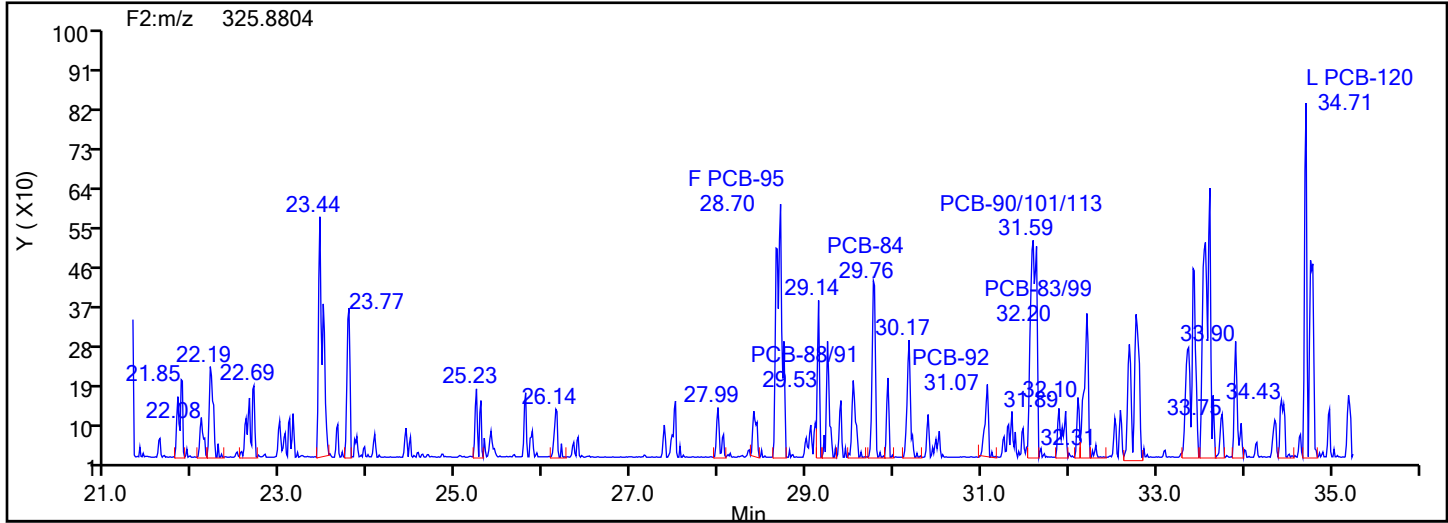
## PePCB F2 Standards



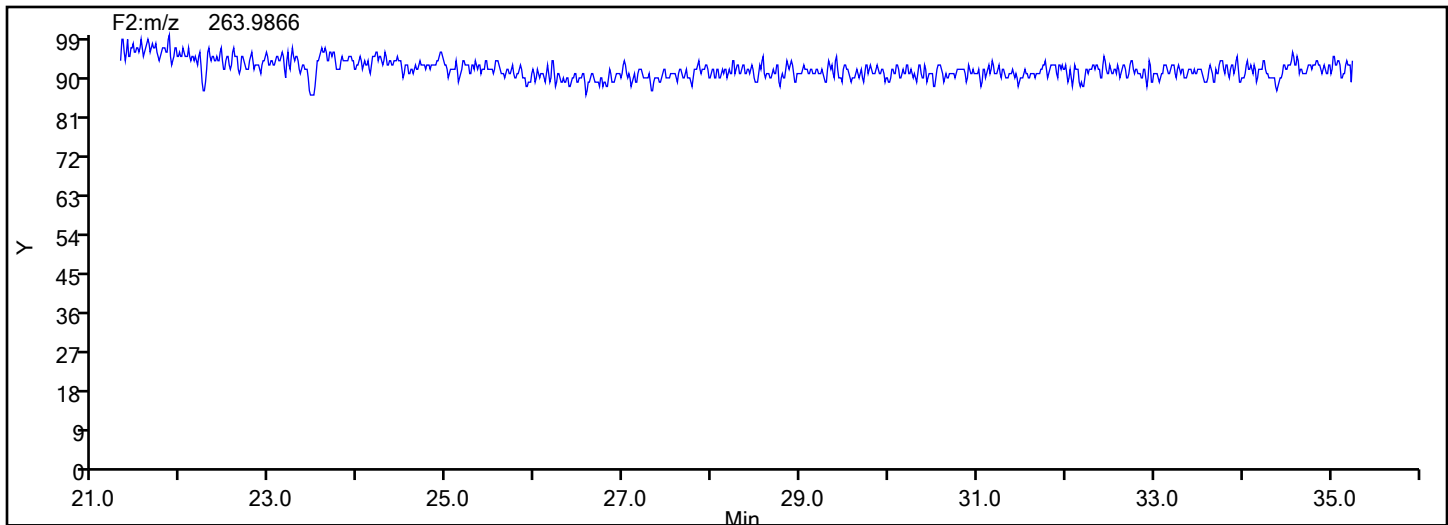


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1\IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

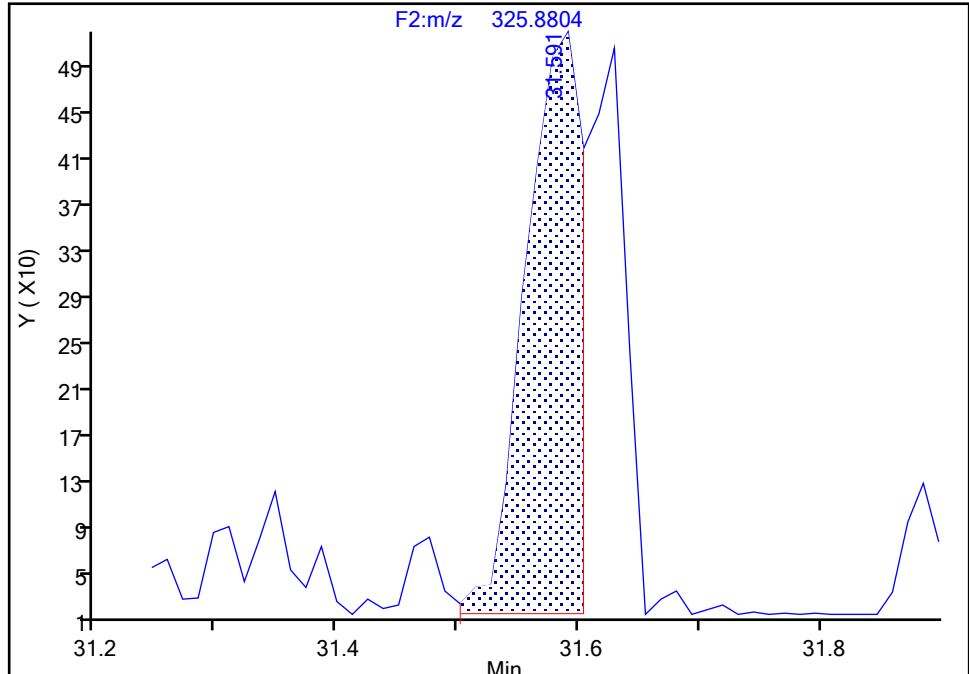
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

**PCB-90/101/113, CAS: STL01813**

Signal: 1

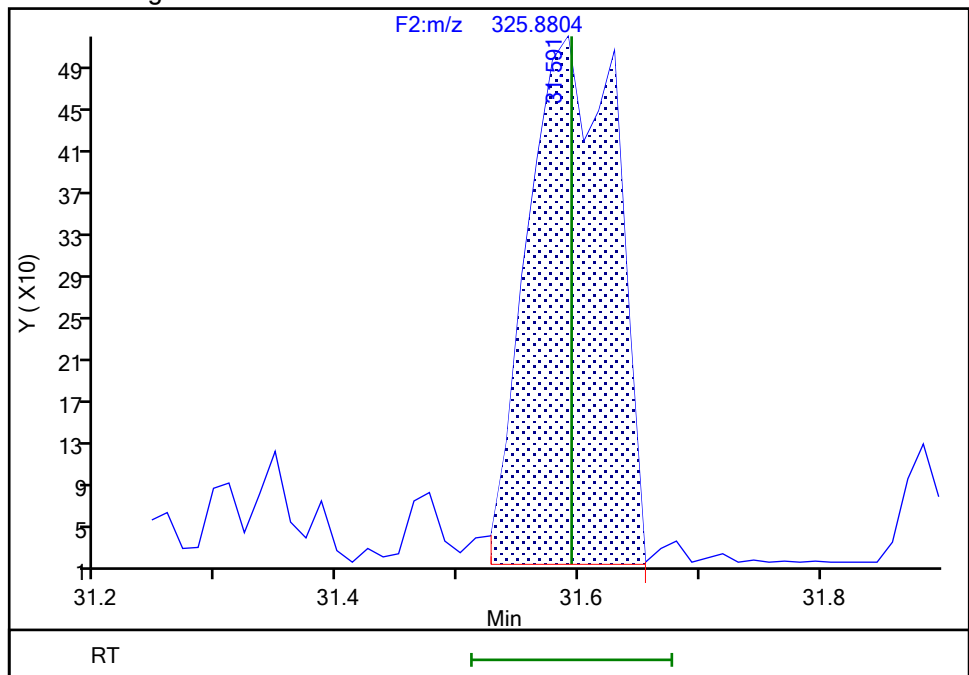
RT: 31.59  
Area: 1526  
Amount: 0.062177  
Amount Units: pg/ul

## Processing Integration Results



RT: 31.59  
Area: 2528  
Amount: 0.098141  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 21:33:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

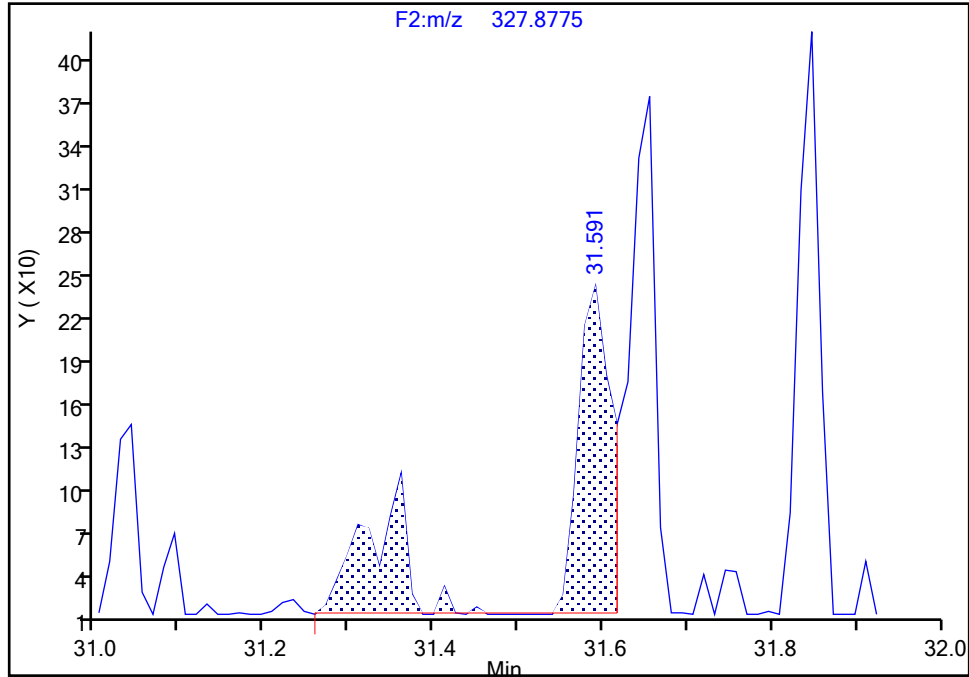
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

PCB-90/101/113, CAS: STL01813

Signal: 2

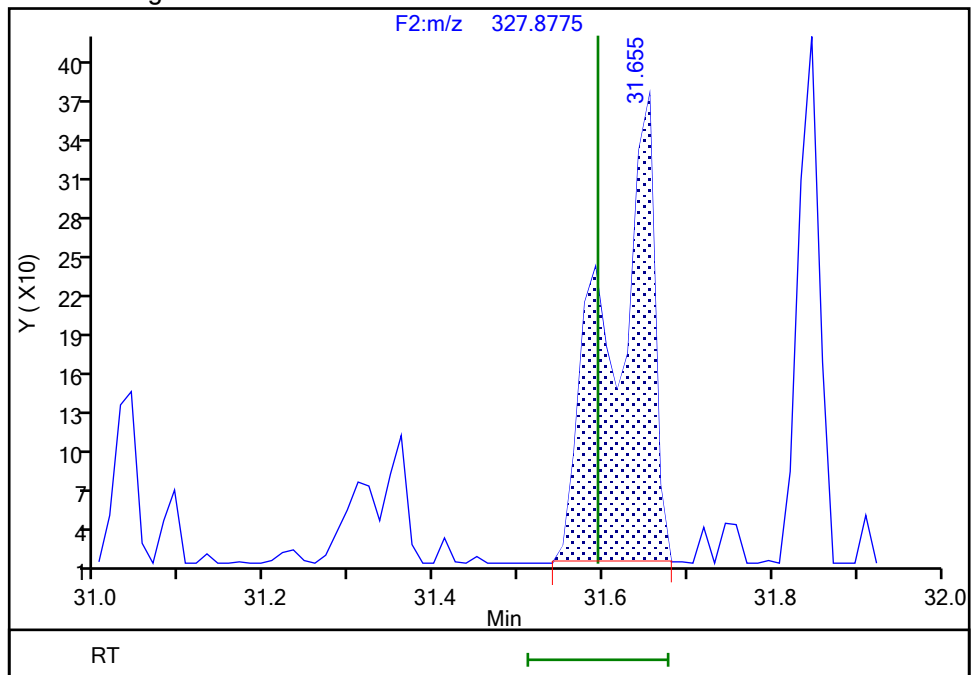
RT: 31.59  
Area: 891  
Amount: 0.062177  
Amount Units: pg/ul

## Processing Integration Results



RT: 31.66  
Area: 1287  
Amount: 0.098141  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 21:33:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

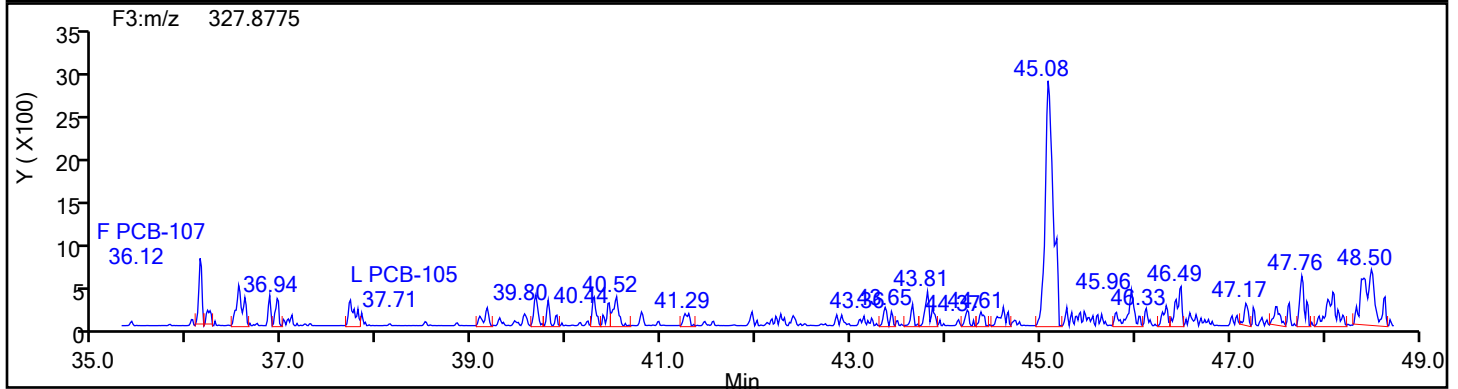
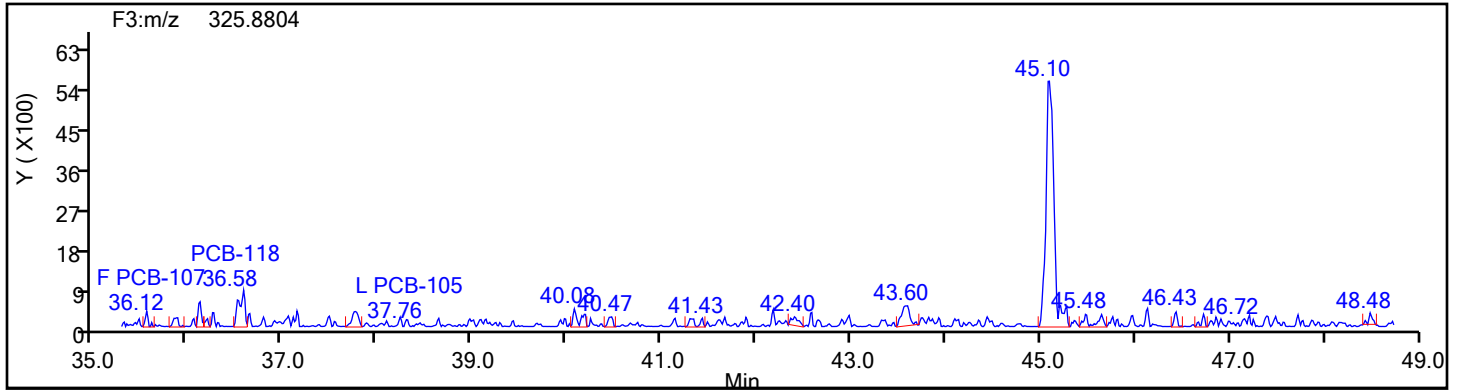
Audit Reason: Baseline

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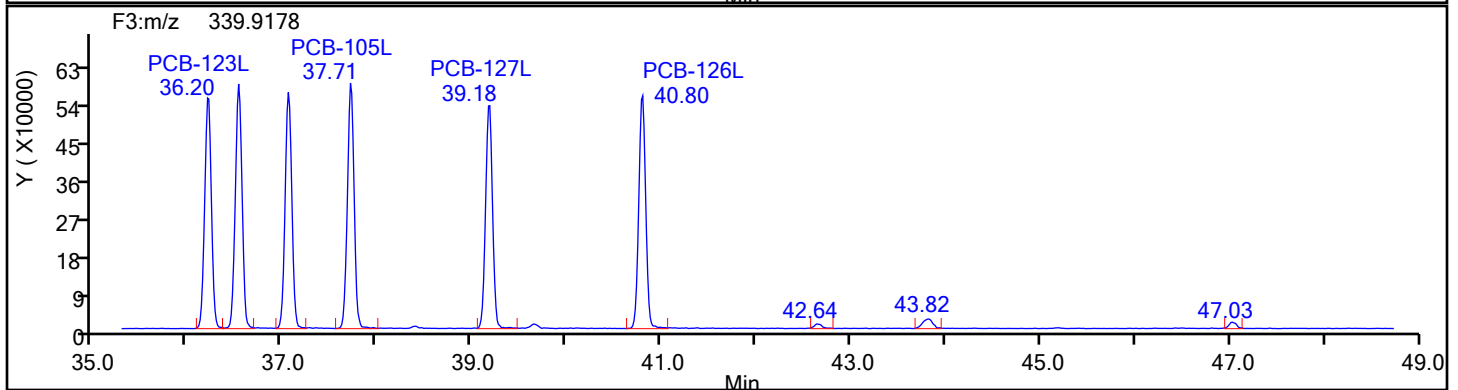
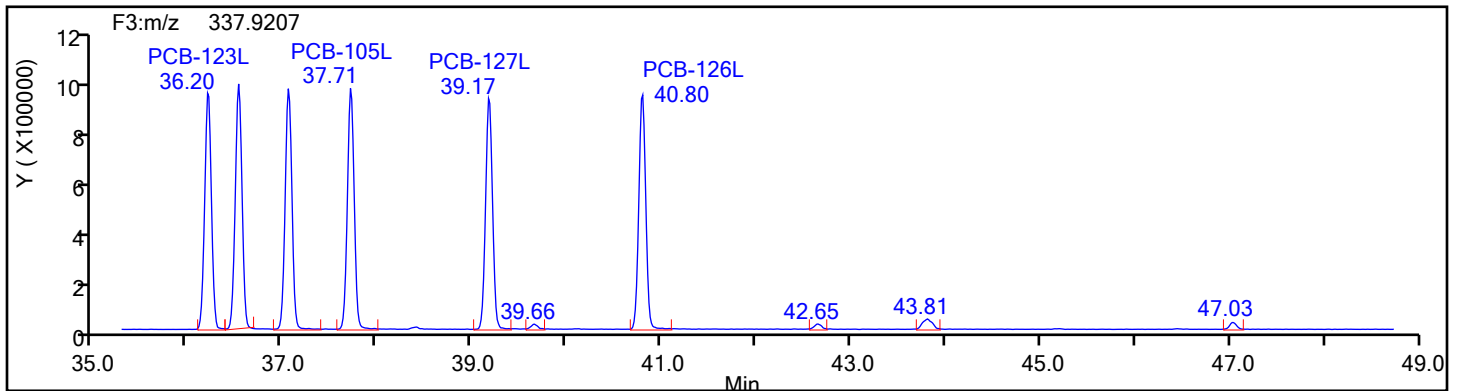
BASFHWC-F-2024-3505  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

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Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

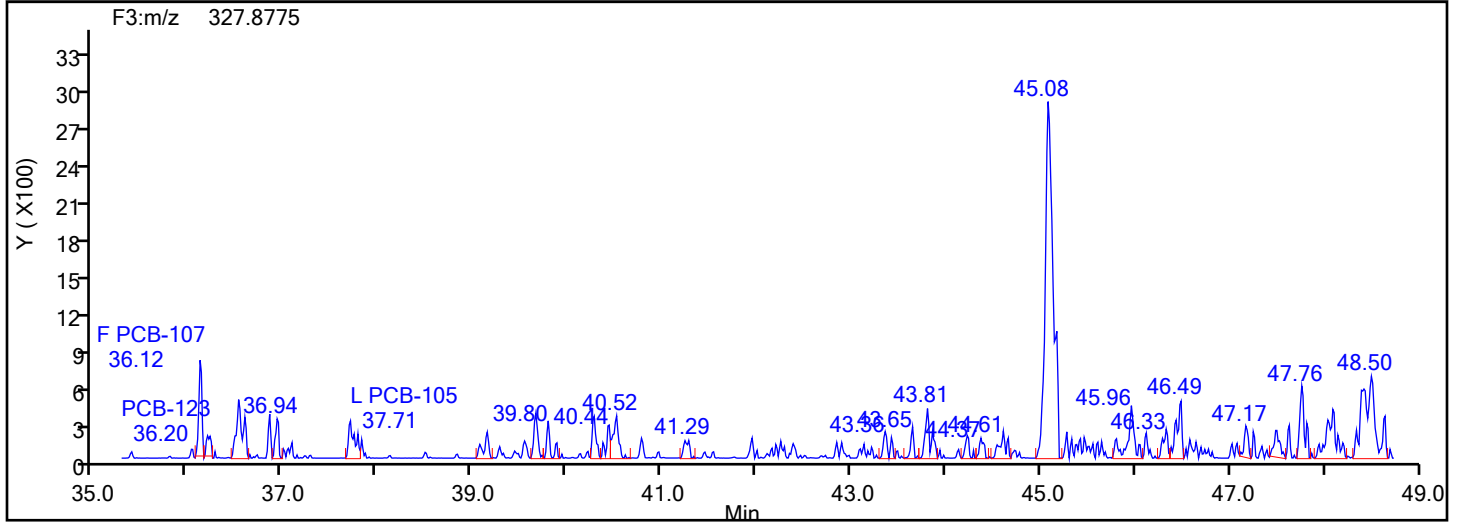
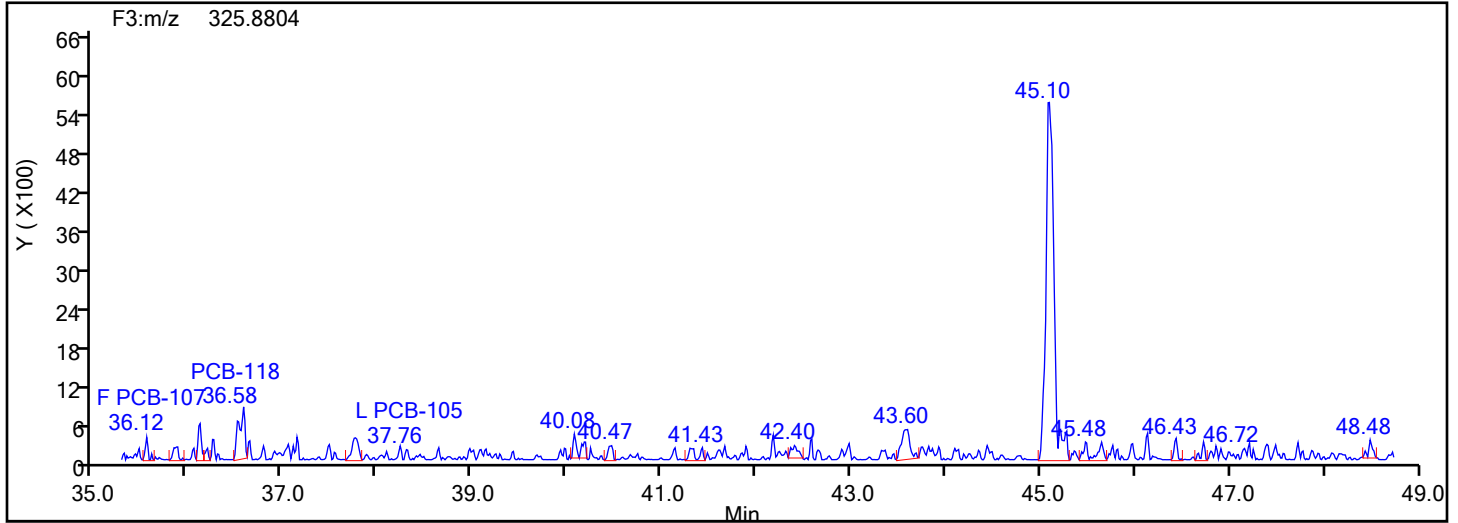


## PePCB F3 Standards

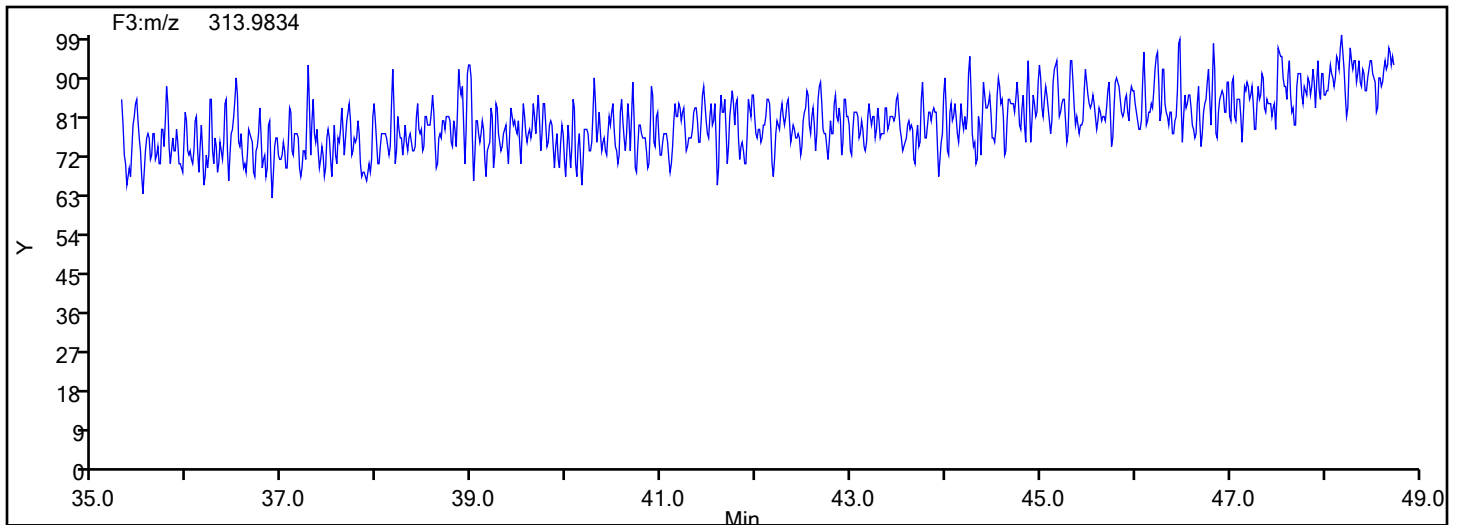


## Eurofins Knoxville

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Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3



## PePCB F3 Lock Mass



## Eurofins Knoxville

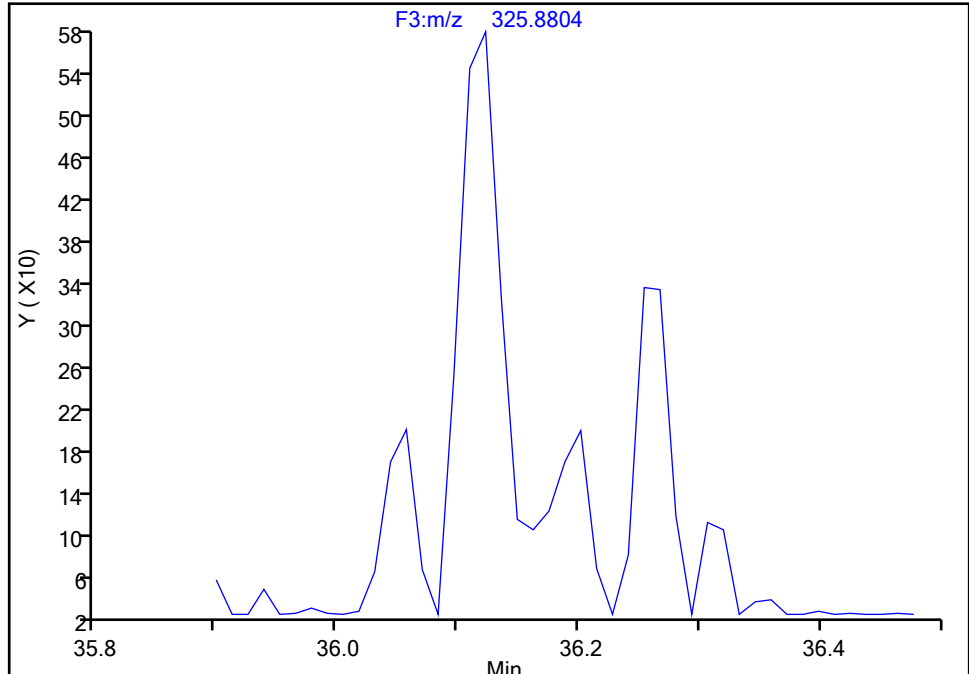
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

PCB-123, CAS: 65510-44-3

Signal: 1

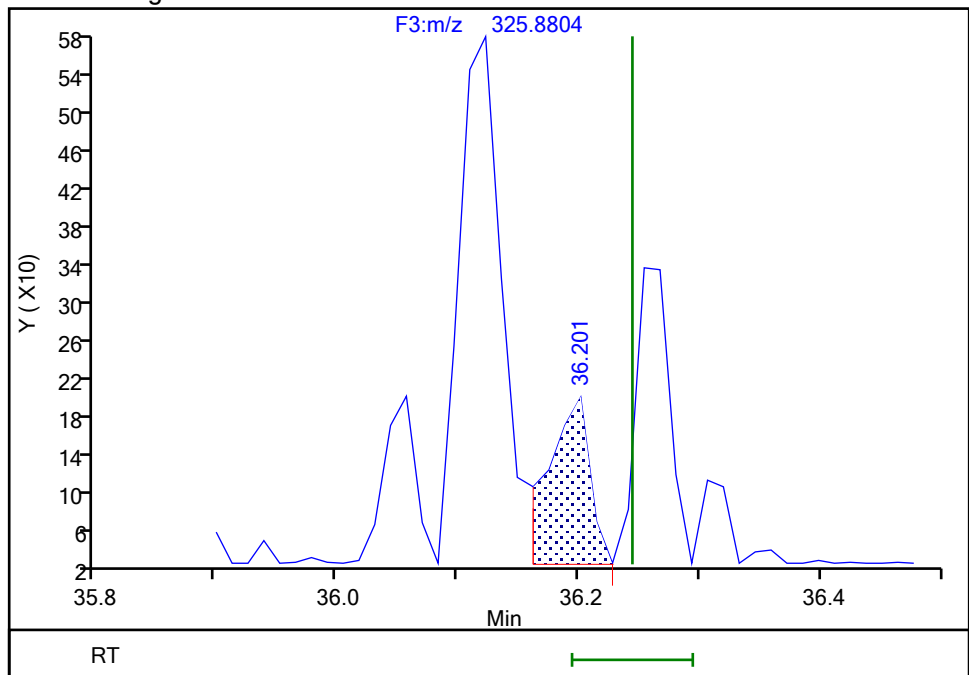
Not Detected  
Expected RT: 36.24

## Processing Integration Results



## Manual Integration Results

RT: 36.20  
Area: 398  
Amount: 0.012672  
Amount Units: pg/ul



Reviewer: V4XA, 02-Jul-2024 21:34:55 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

## Eurofins Knoxville

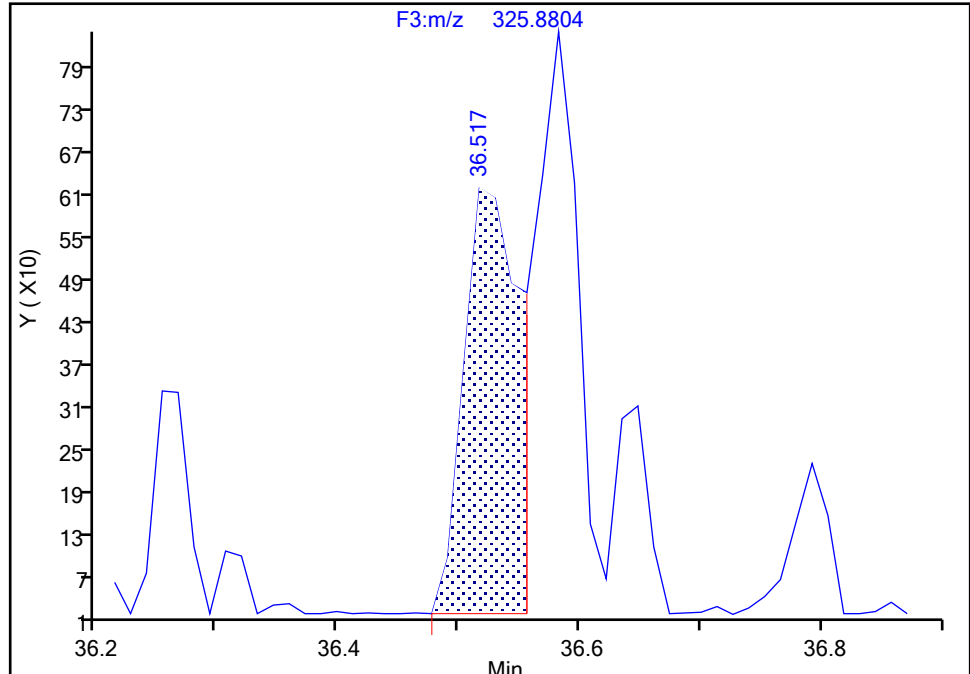
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

## PCB-118, CAS: 31508-00-6

Signal: 1

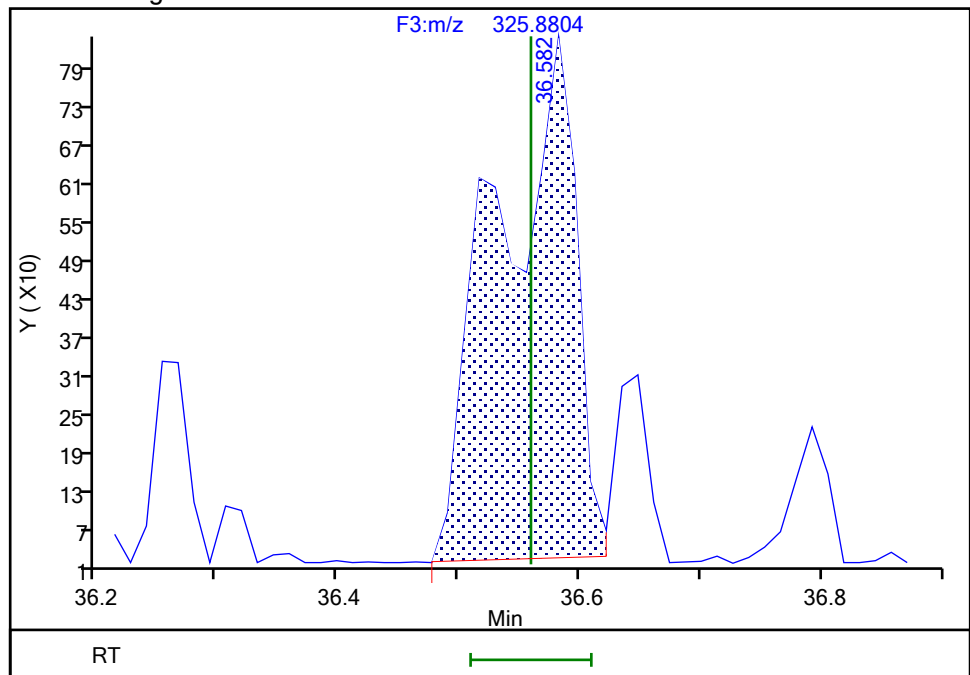
RT: 36.52  
Area: 1804  
Amount: 0.045830  
Amount Units: pg/ul

## Processing Integration Results



RT: 36.58  
Area: 3667  
Amount: 0.067075  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 21:35:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

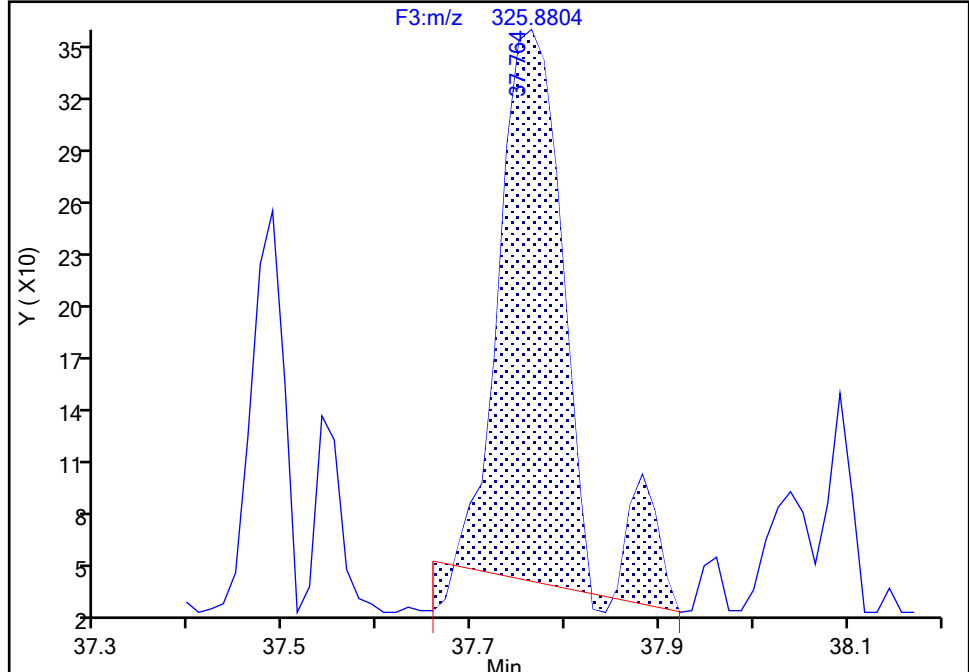
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1\IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-105, CAS: 32598-14-4**

Signal: 1

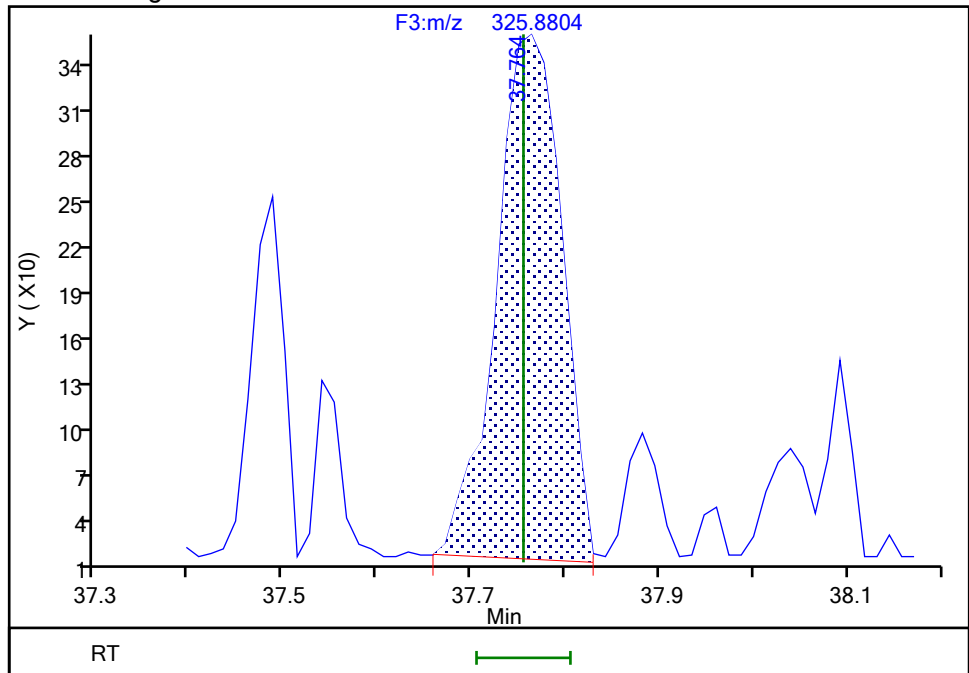
RT: 37.76  
Area: 1583  
Amount: 0.034101  
Amount Units: pg/ul

## Processing Integration Results



RT: 37.76  
Area: 1643  
Amount: 0.034845  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 21:35:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

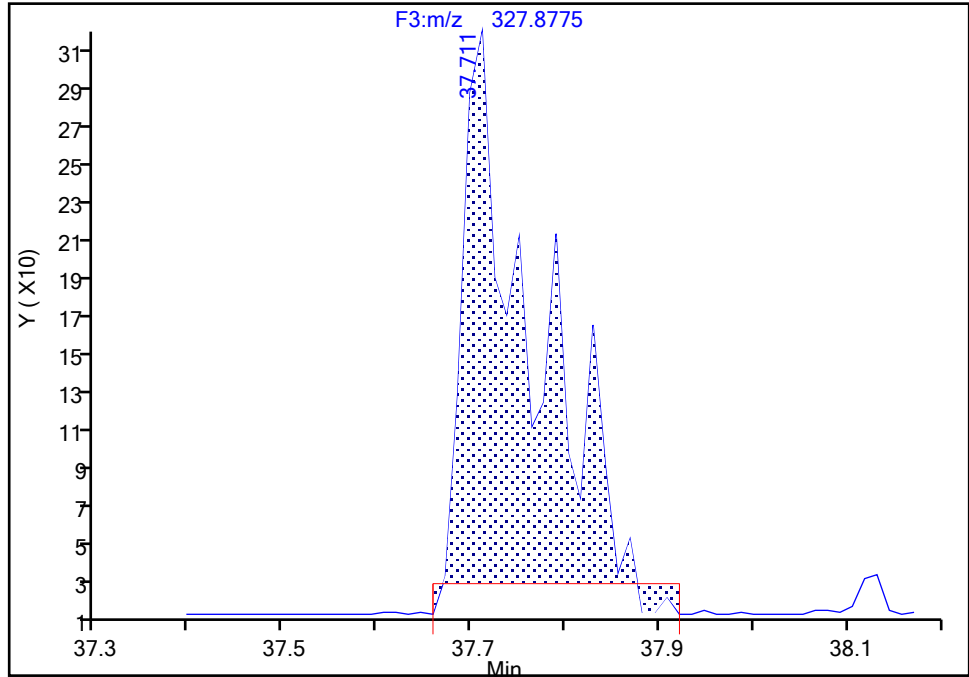
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Injection Date: 02-Jul-2024 19:57:00 Instrument ID: D2D  
Lims ID: 140-36940-A-4-E Lab Sample ID: 140-36940-4  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-105, CAS: 32598-14-4

Signal: 2

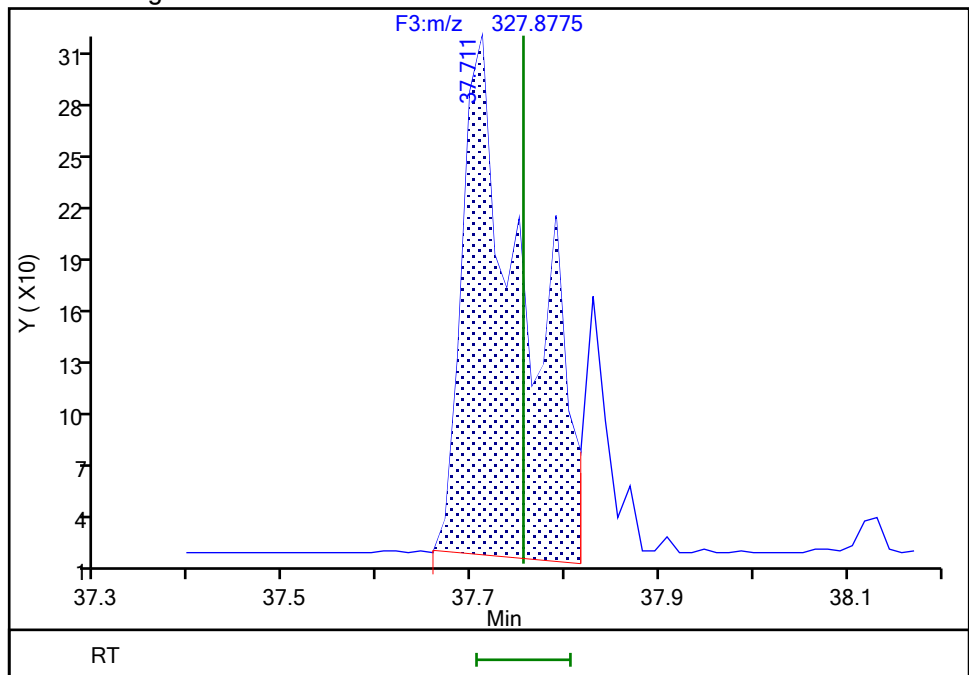
RT: 37.71  
Area: 1351  
Amount: 0.034101  
Amount Units: pg/ul

## Processing Integration Results



RT: 37.71  
Area: 1355  
Amount: 0.034845  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 21:35:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

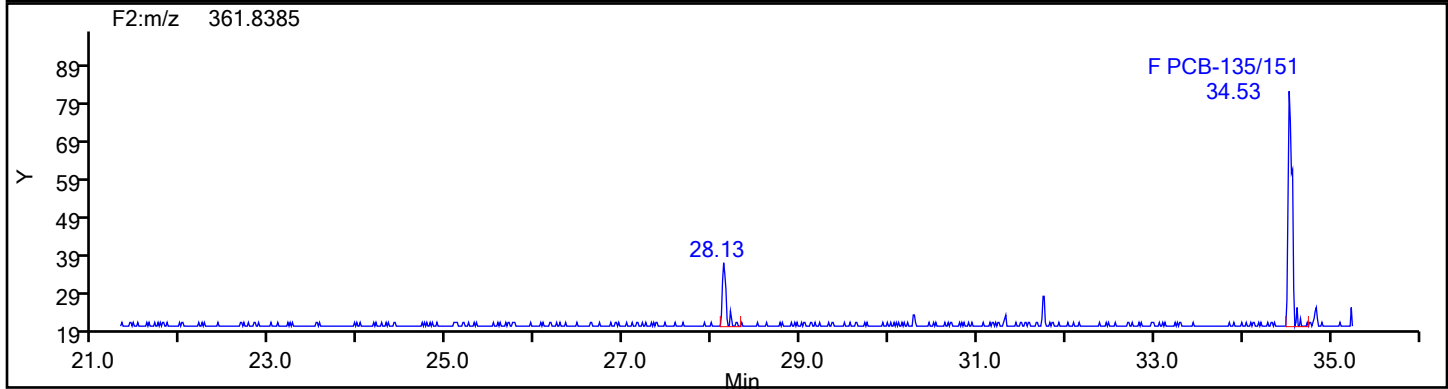
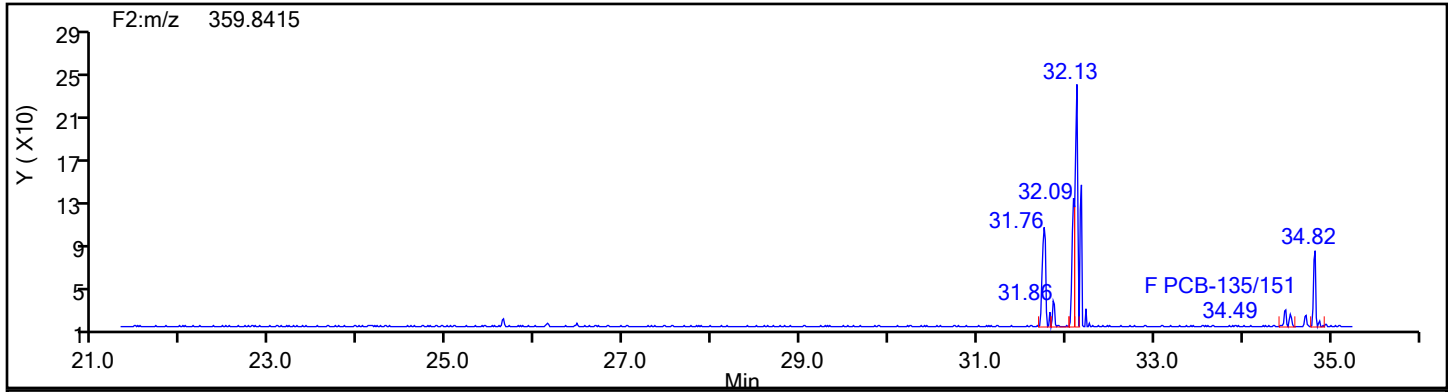
Audit Reason: Baseline

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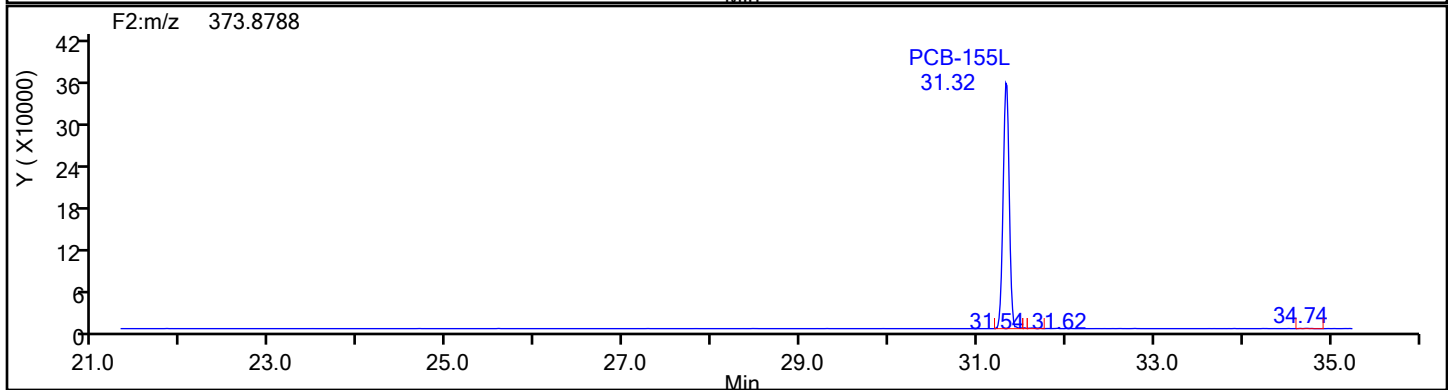
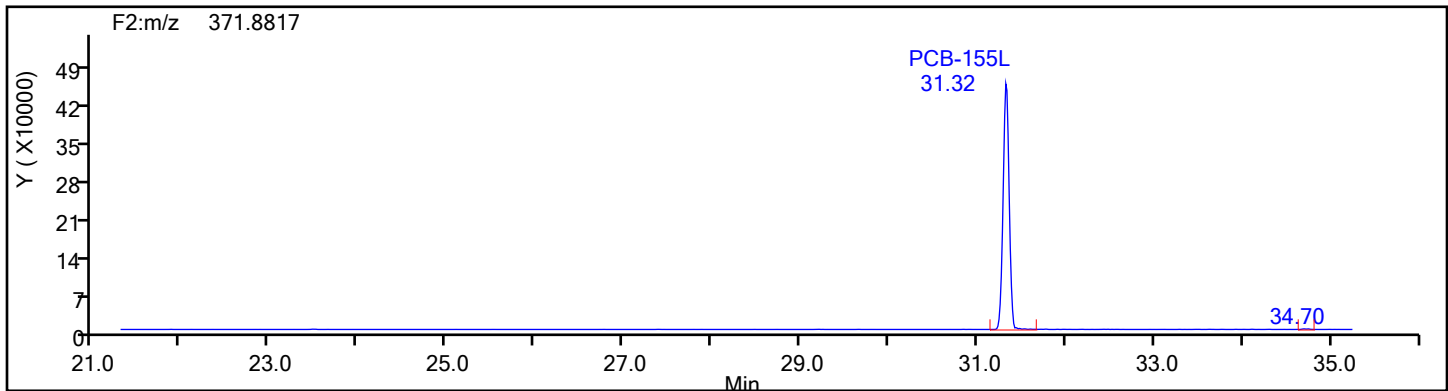
BASFHWC-F-2024-03511  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

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Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

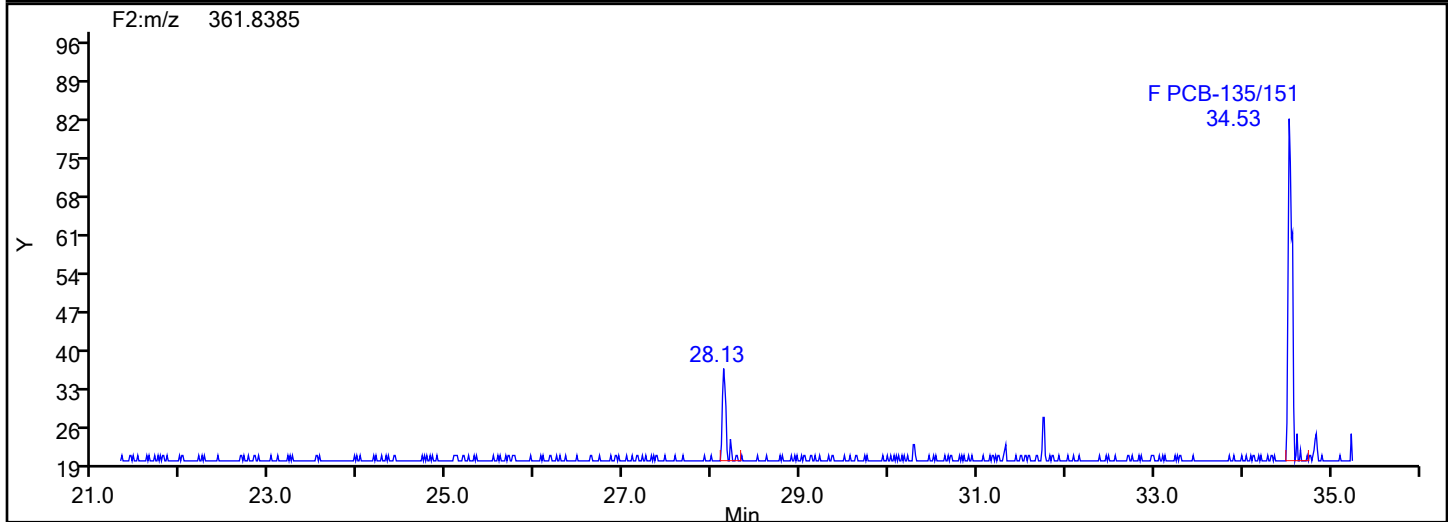
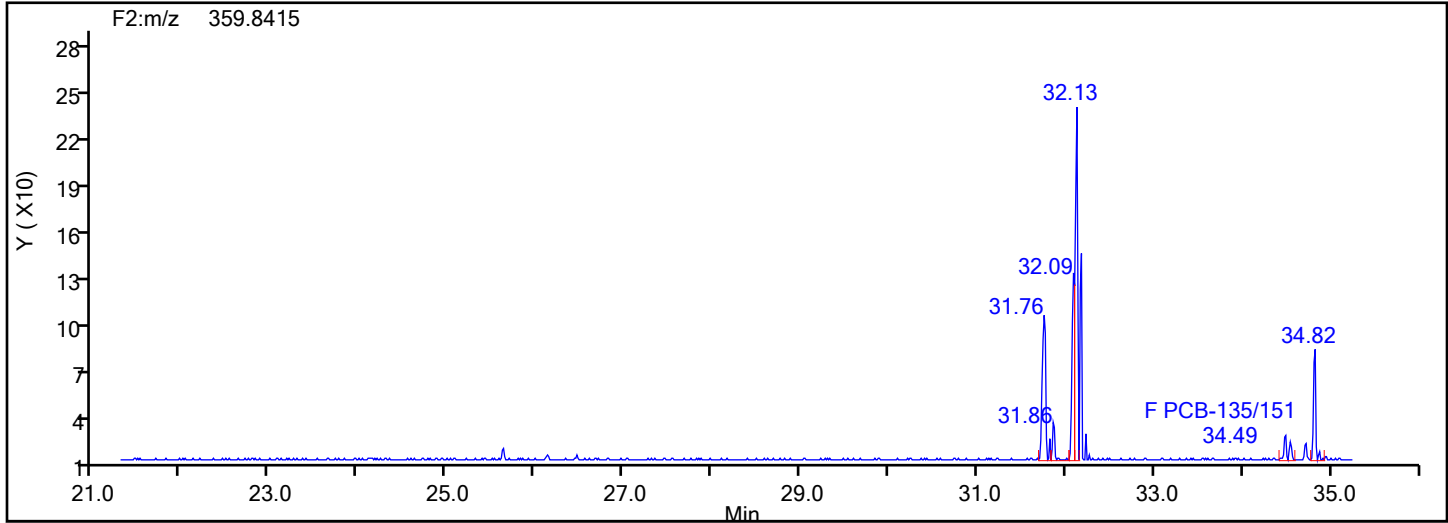


## HxPCB F2 Standards

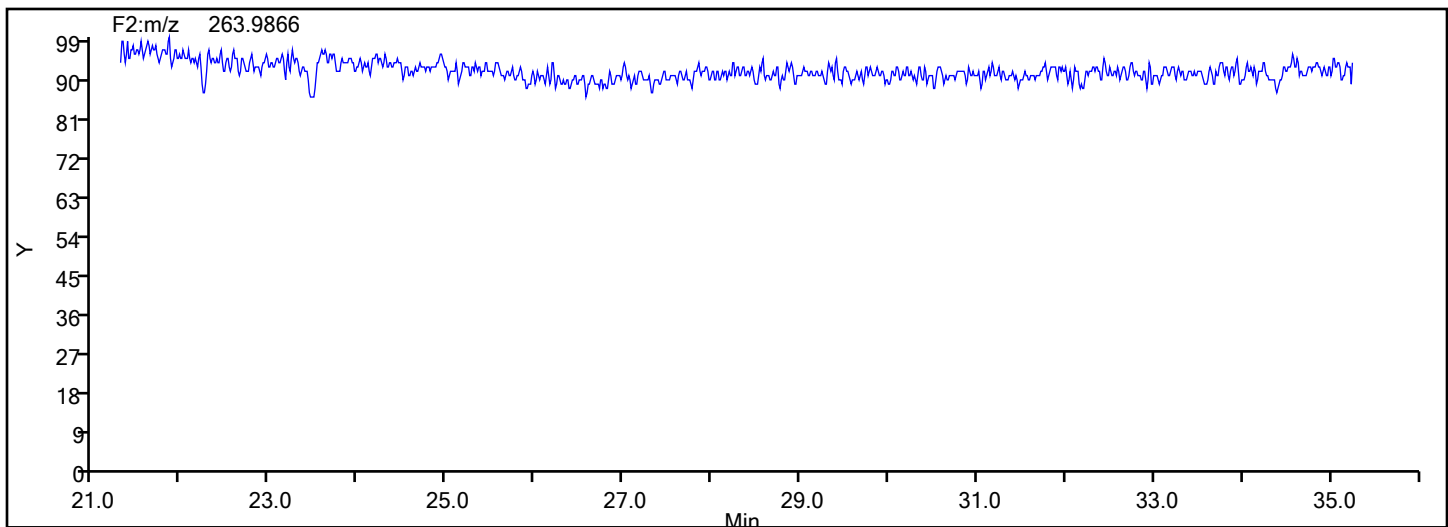


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

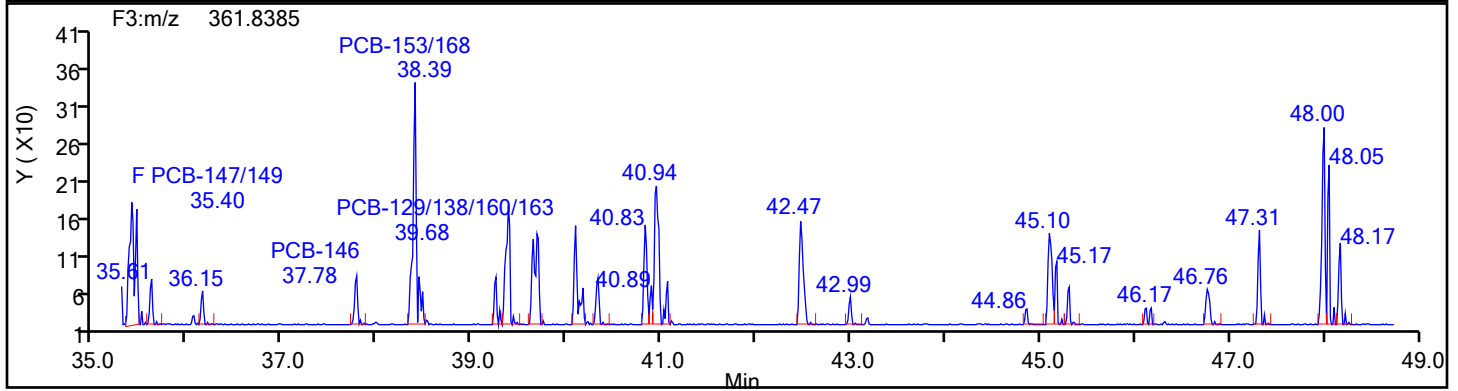
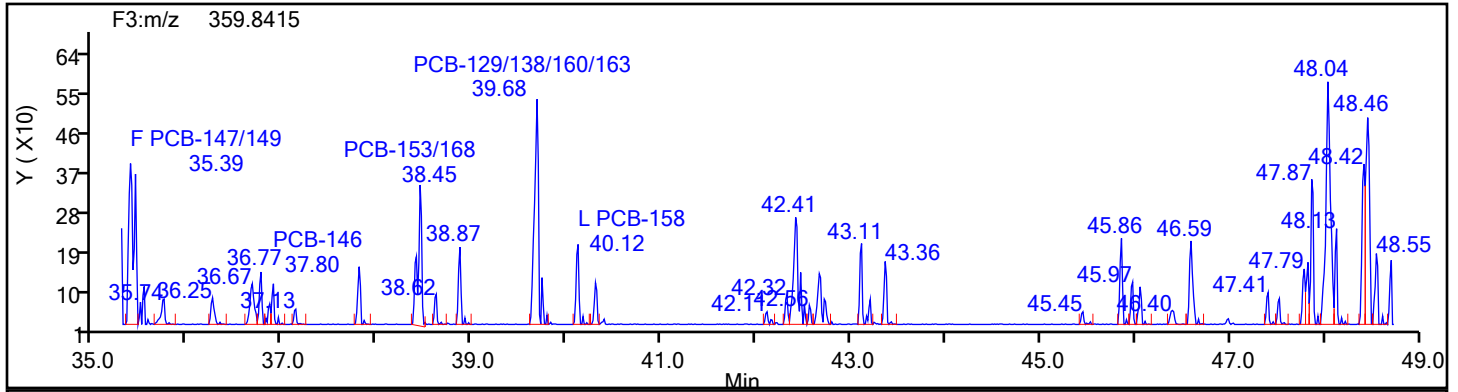


## HxPCB F2 Lock Mass

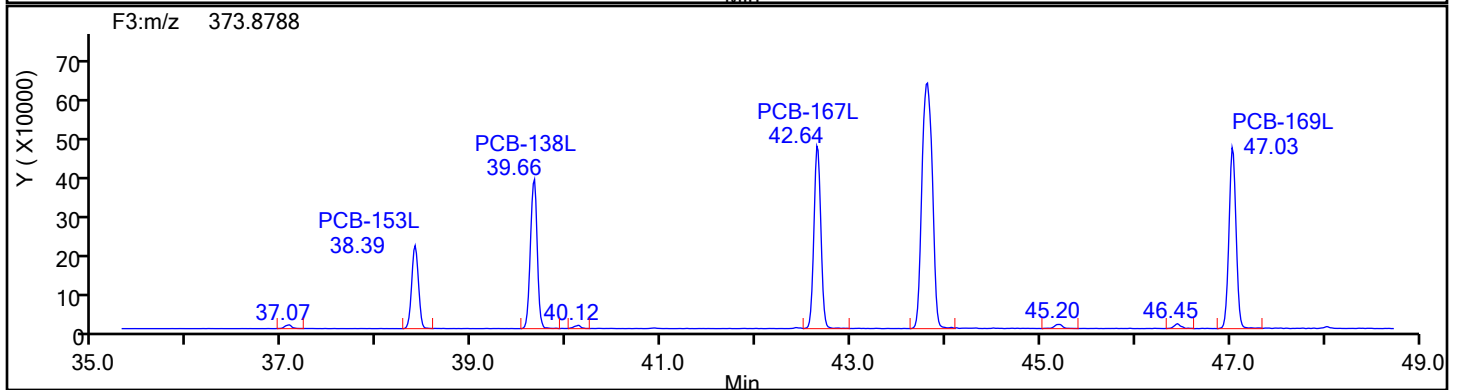
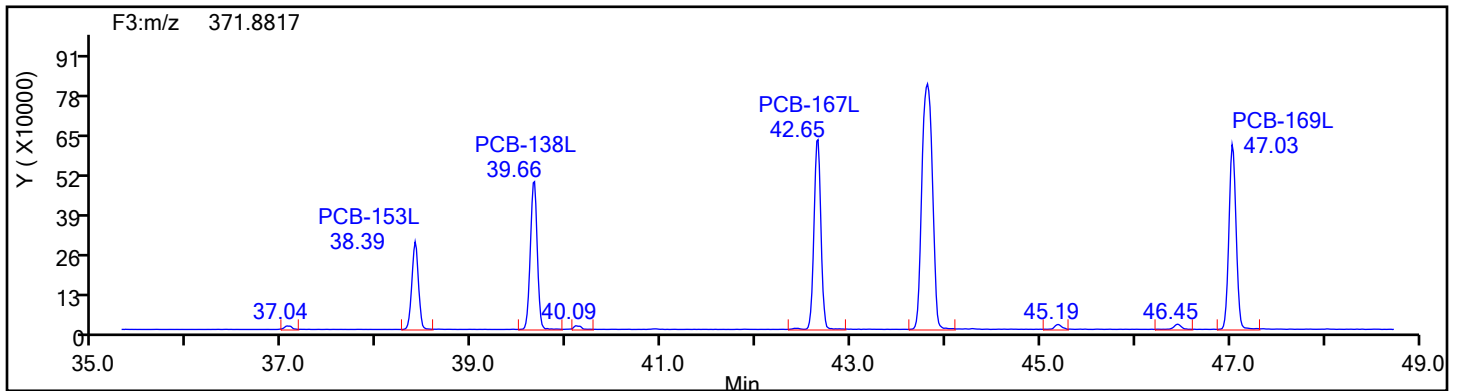


## Eurofins Knoxville

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Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3

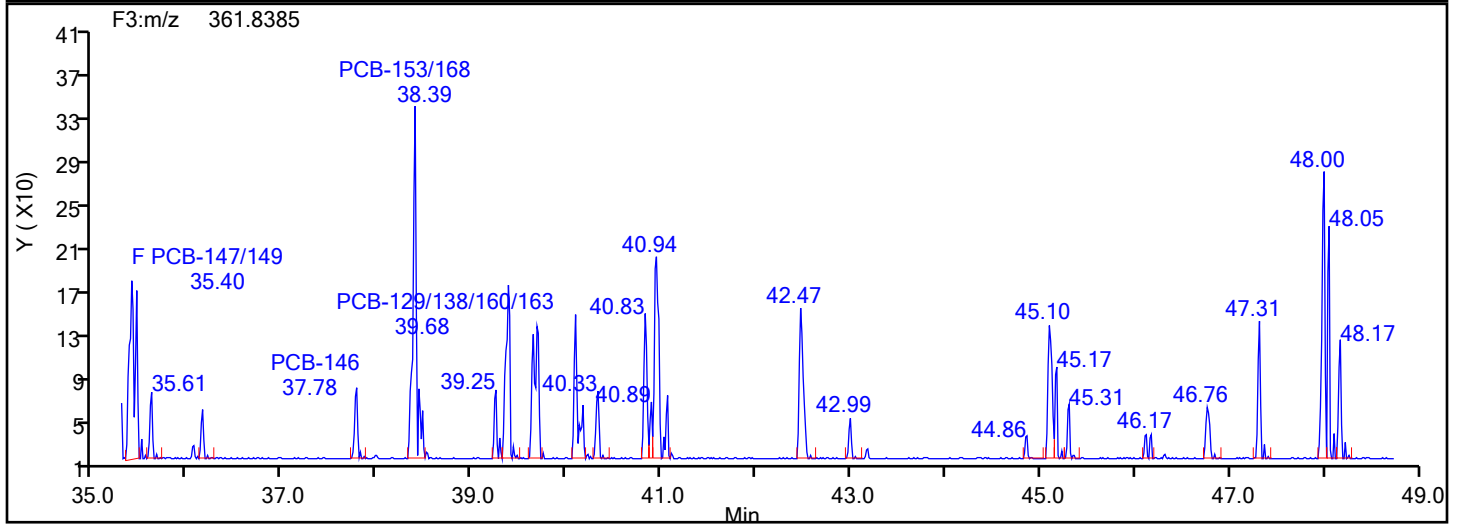
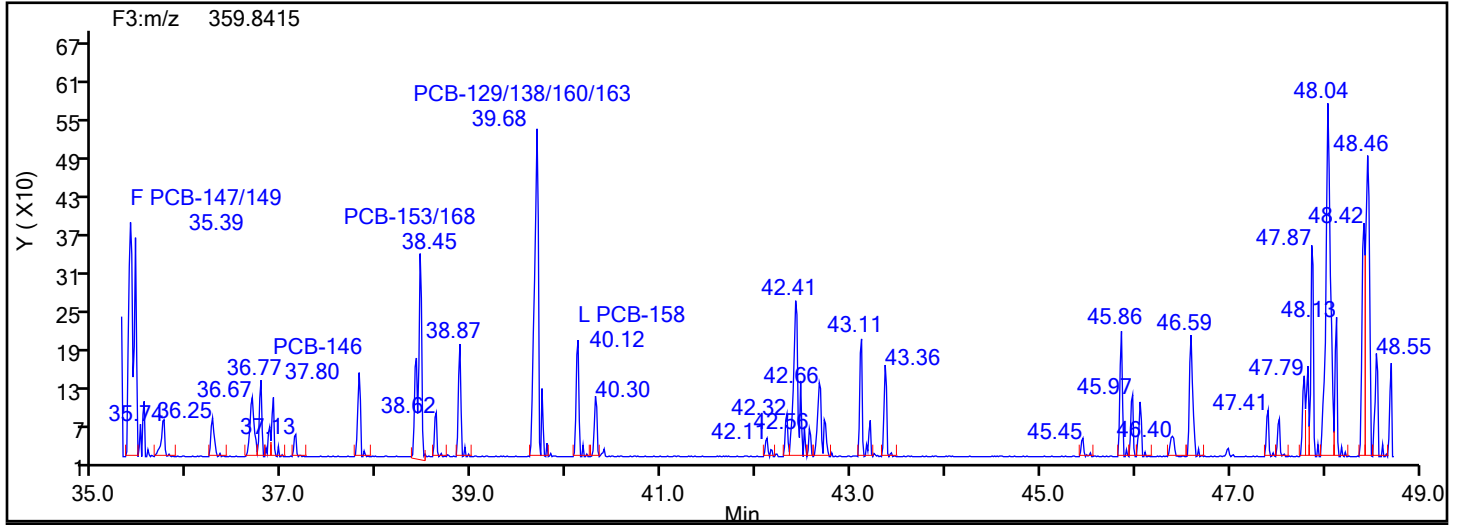


## HxPCB F3 Standards

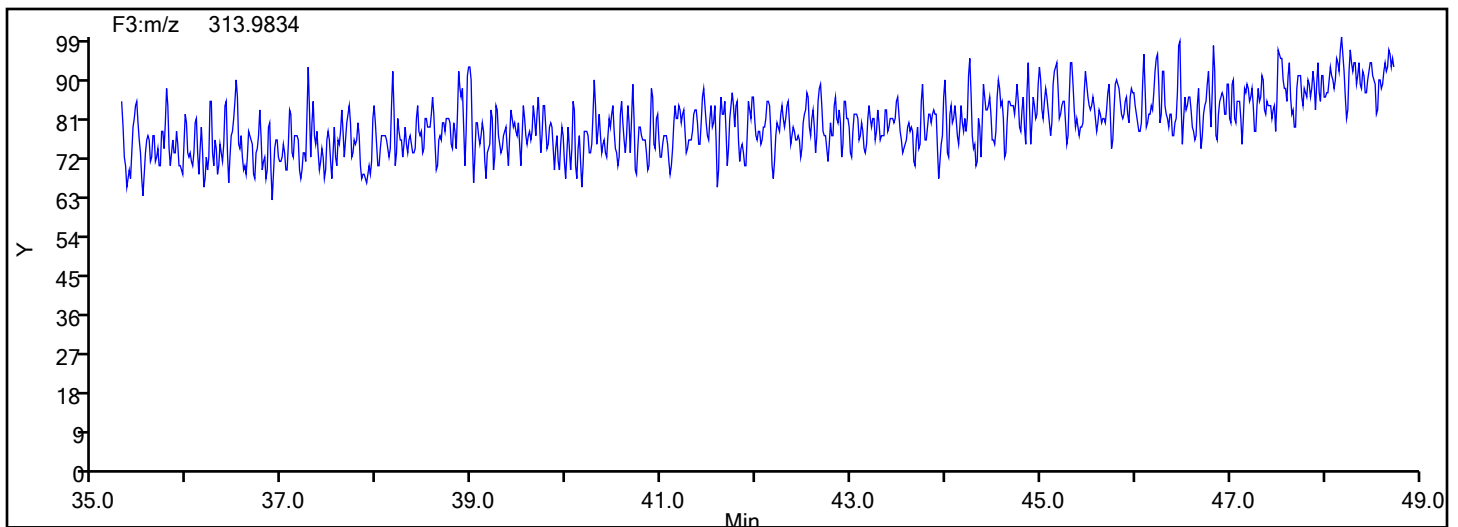


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

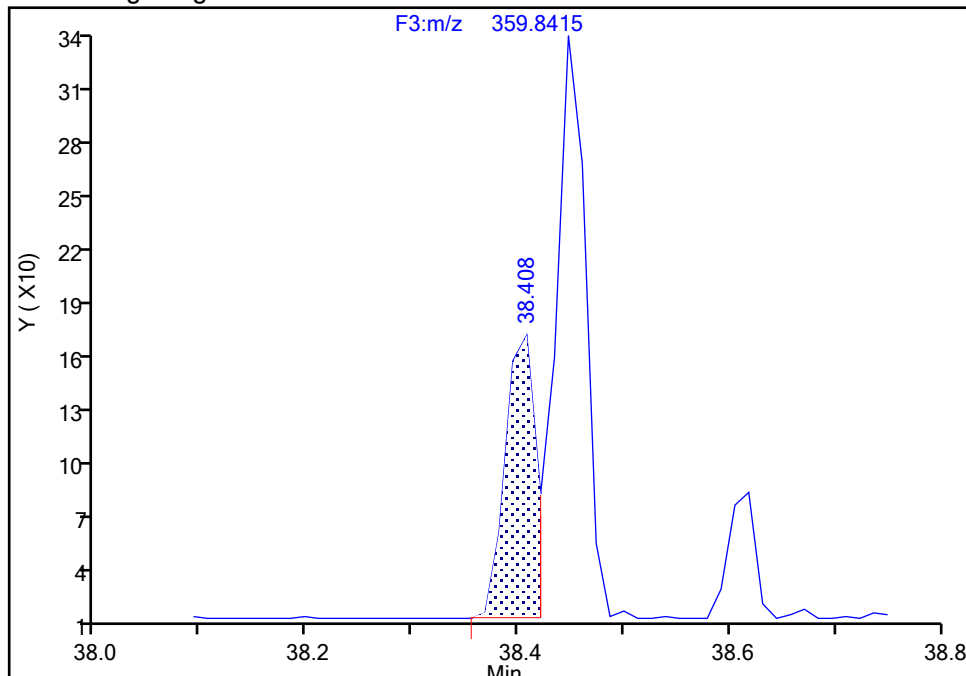
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Injection Date:	02-Jul-2024 19:57:00	Instrument ID:	D2D		
Lims ID:	140-36940-A-4-E	Lab Sample ID:	140-36940-4		
Client ID:	M23 - EPN 4-1\IN-701-RUN 4-COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.10 )		

PCB-153/168, CAS: STL01822

Signal: 1

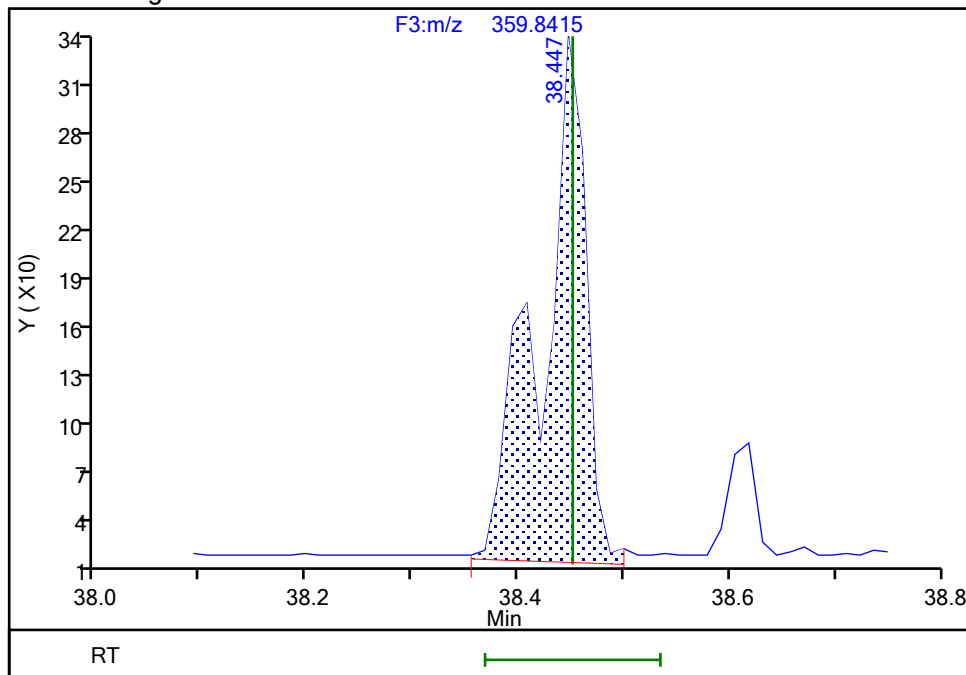
RT: 38.41  
Area: 299  
Amount: 0.019577  
Amount Units: pg/ul

## Processing Integration Results



RT: 38.45  
Area: 952  
Amount: 0.030374  
Amount Units: pg/ul

## Manual Integration Results



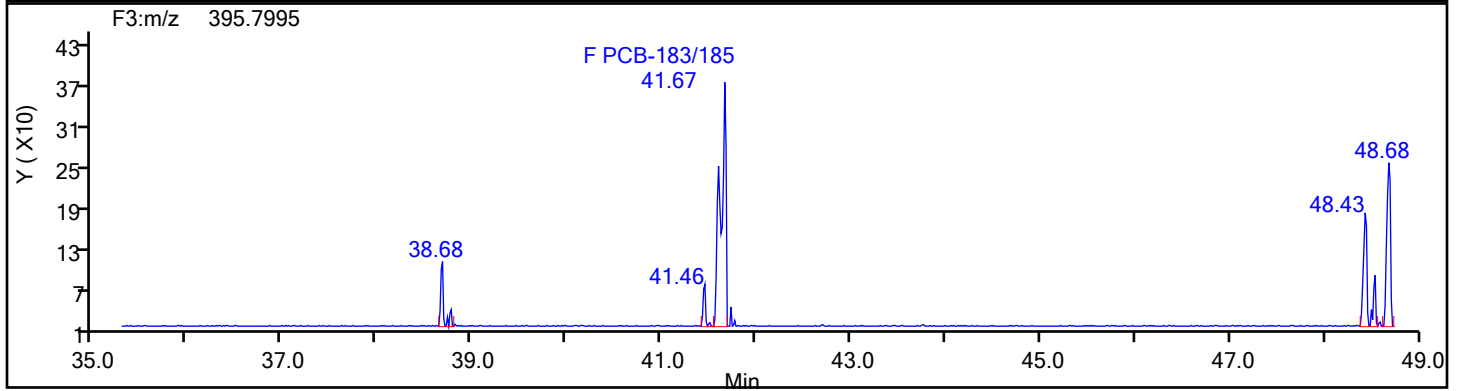
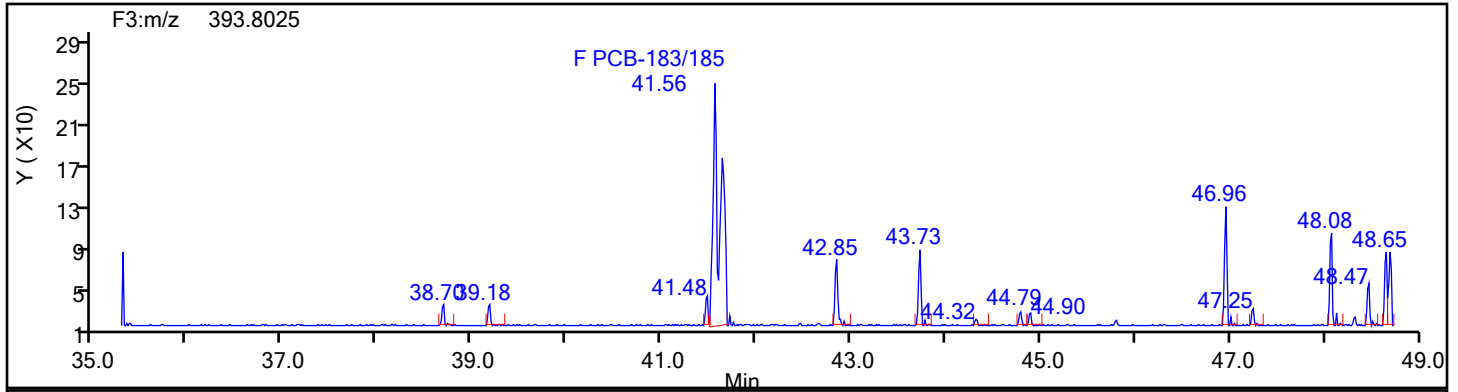
Reviewer: V4XA, 02-Jul-2024 21:37:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

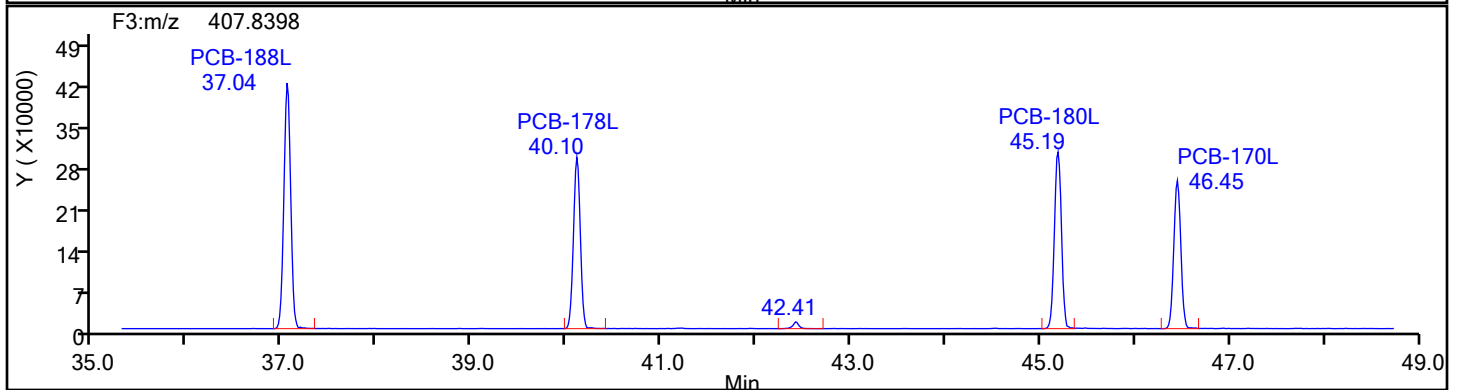
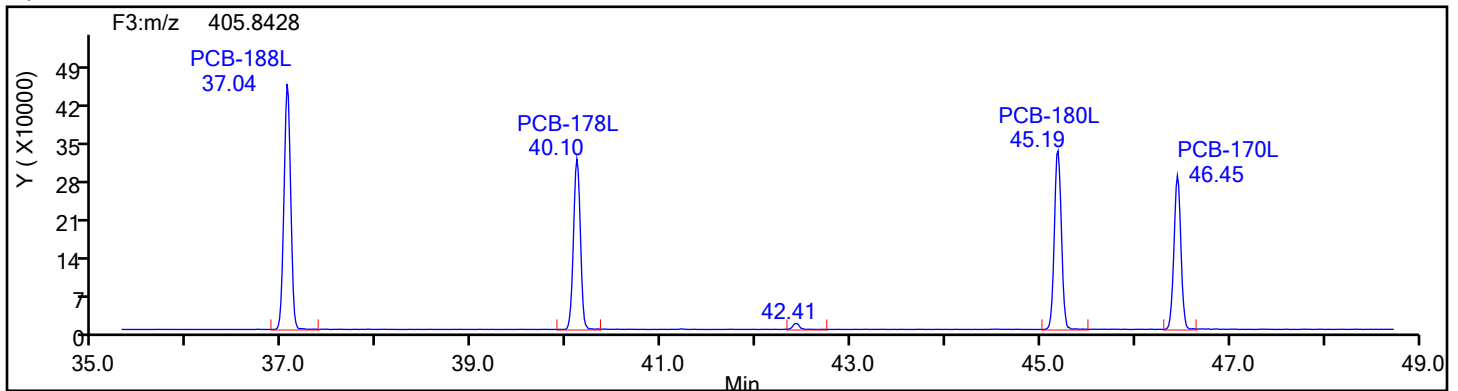
Audit Reason: Baseline

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

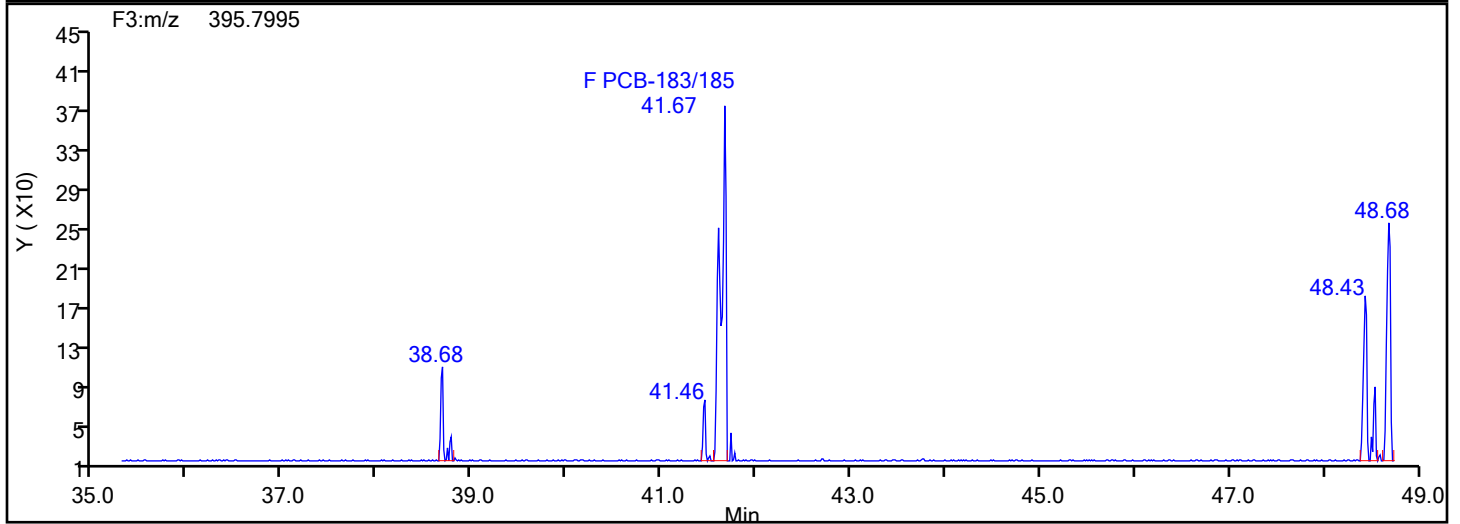
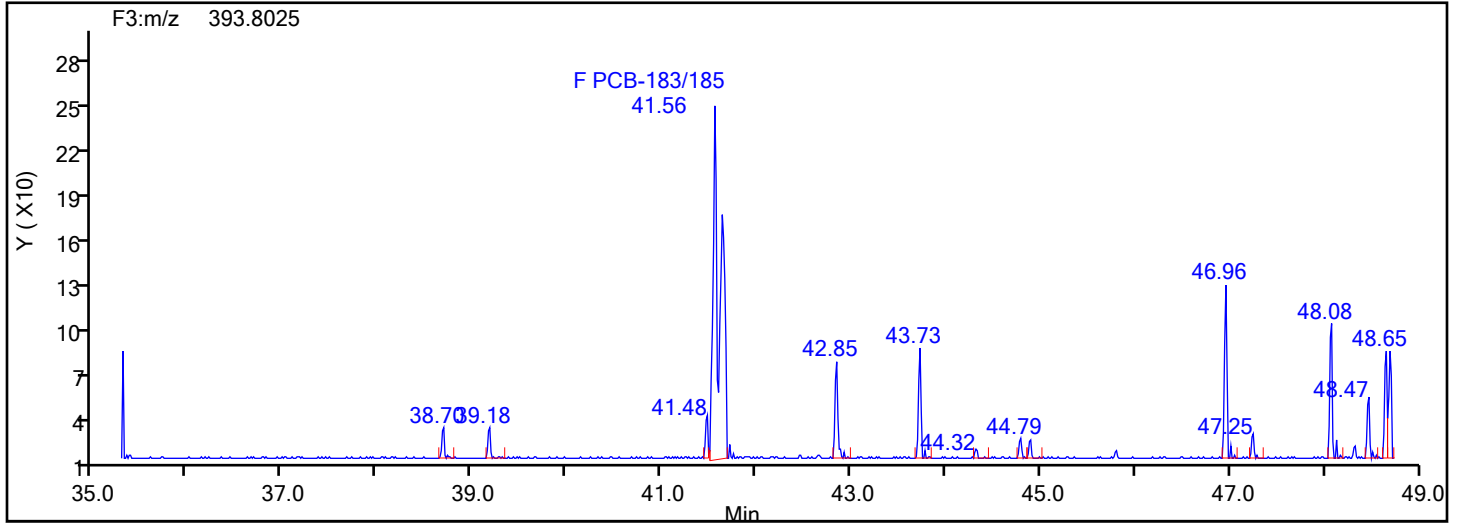


## HpPCB F3 Standards

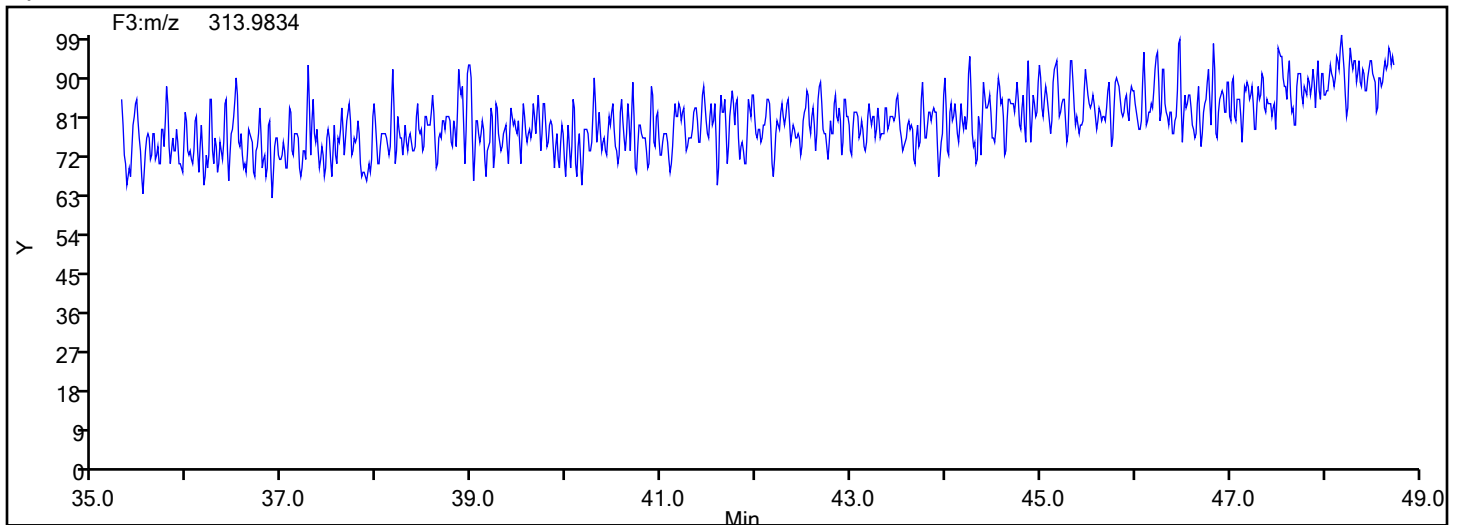


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3



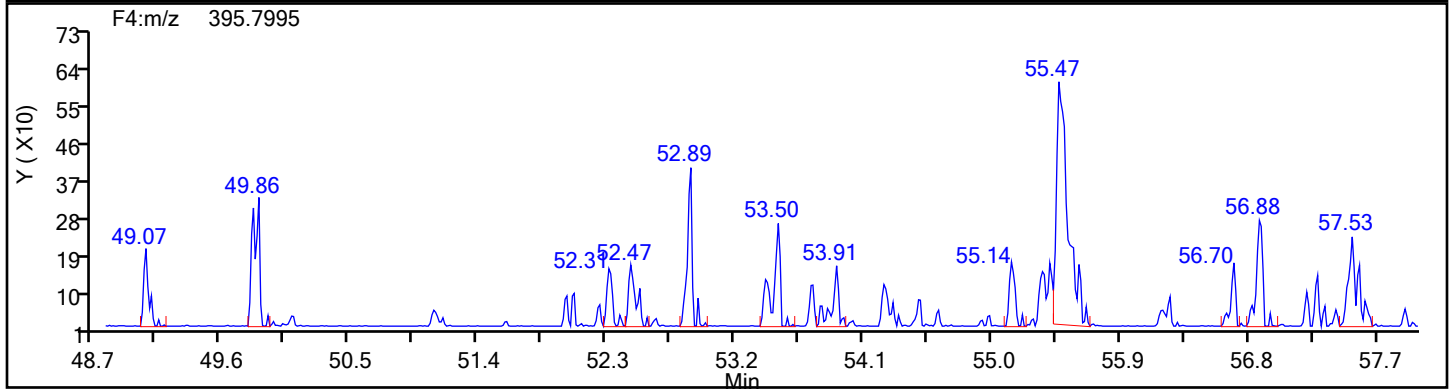
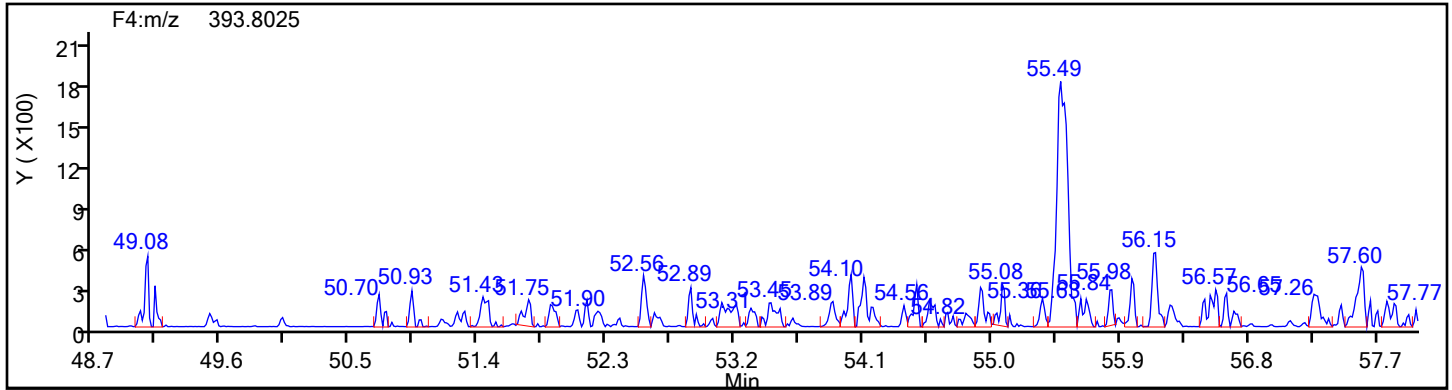
## HpPCB F3 Lock Mass



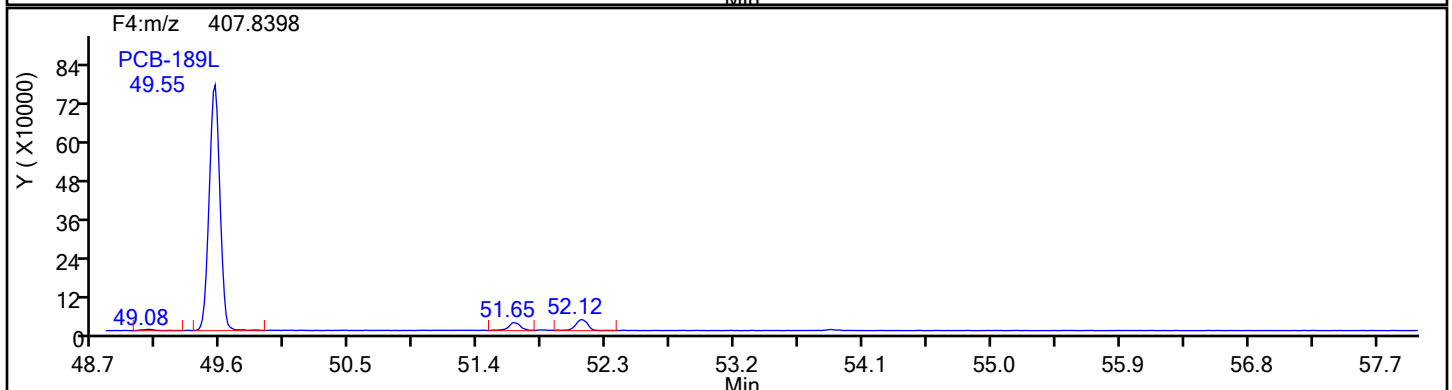
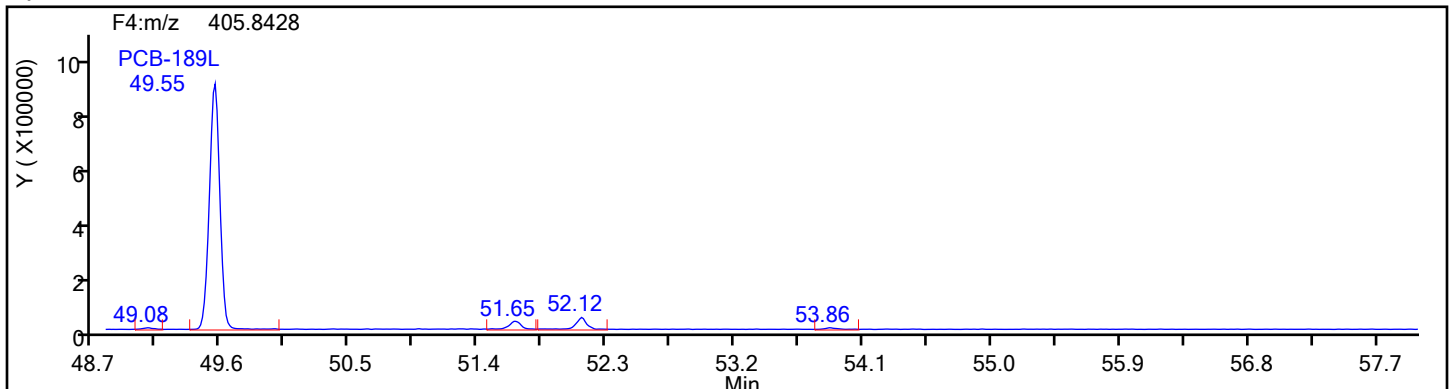


## Eurofins Knoxville

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Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

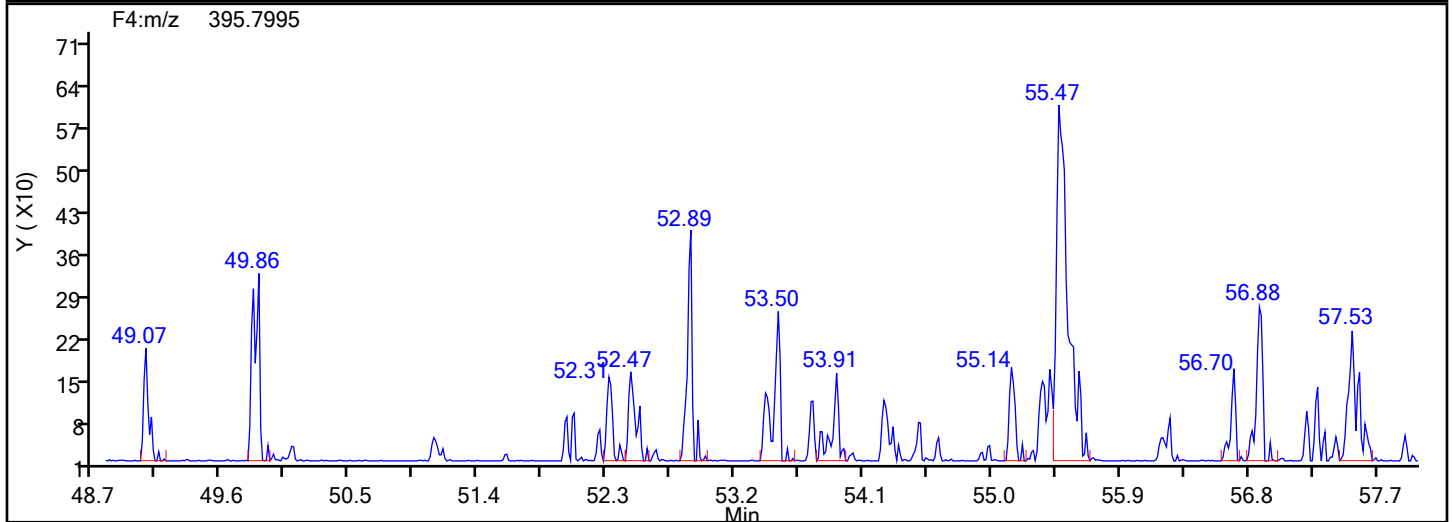
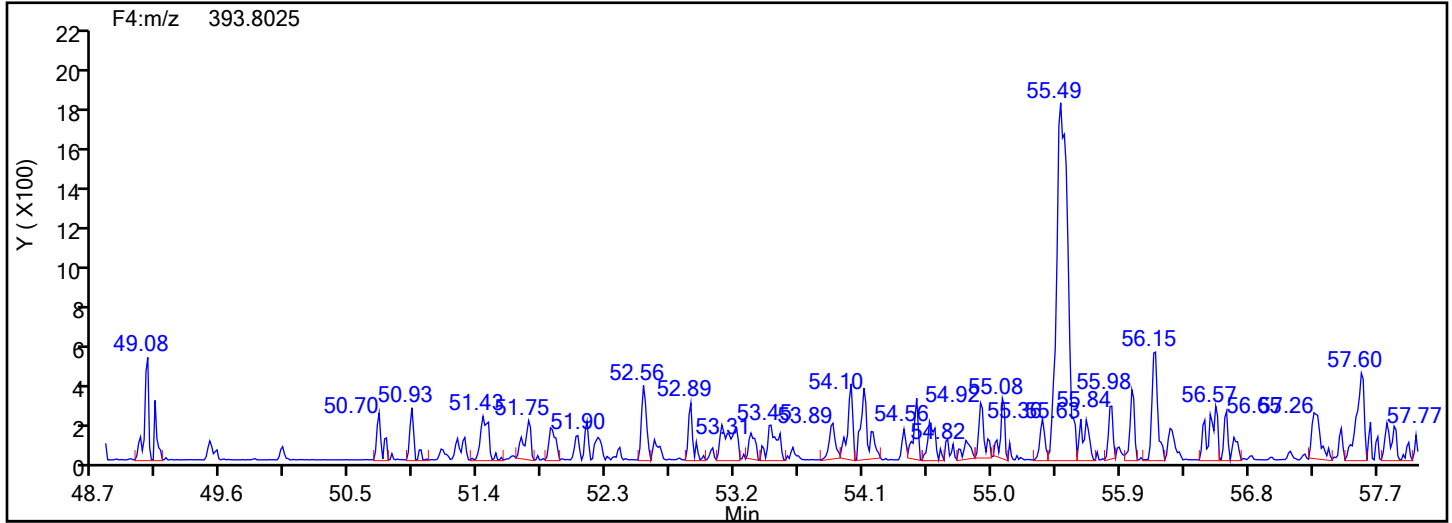


## HpPCB F4 Standards

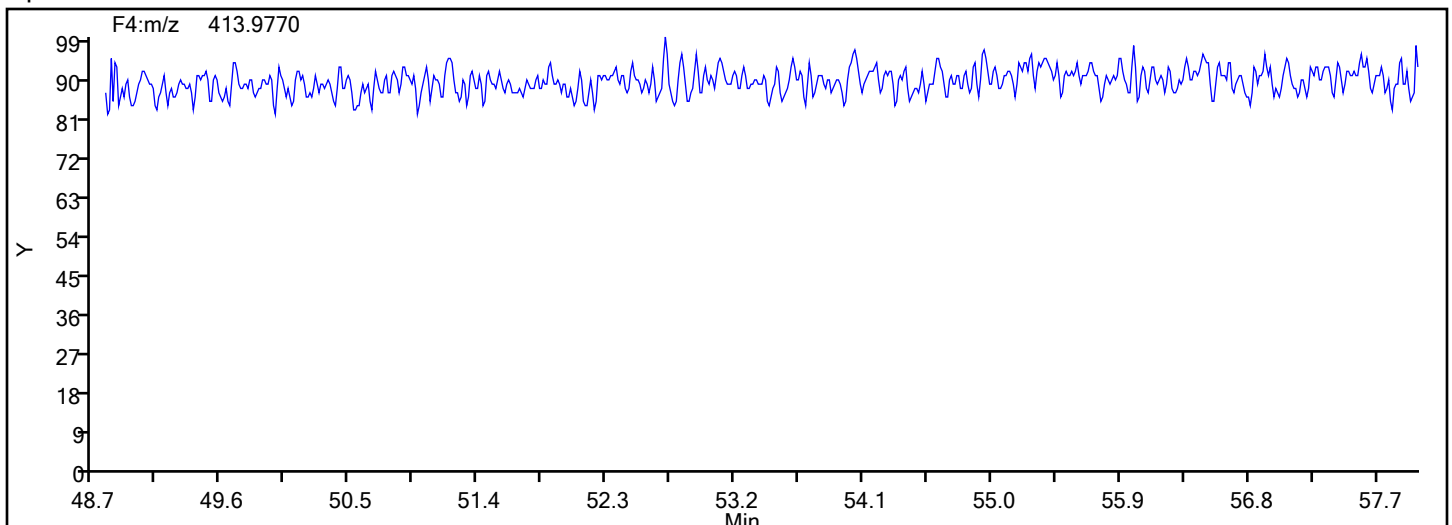


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

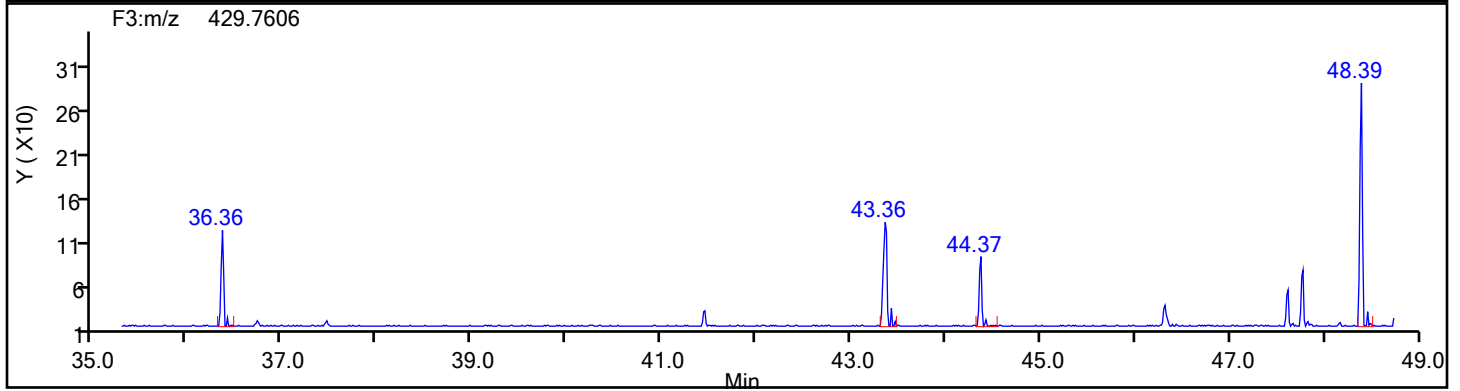
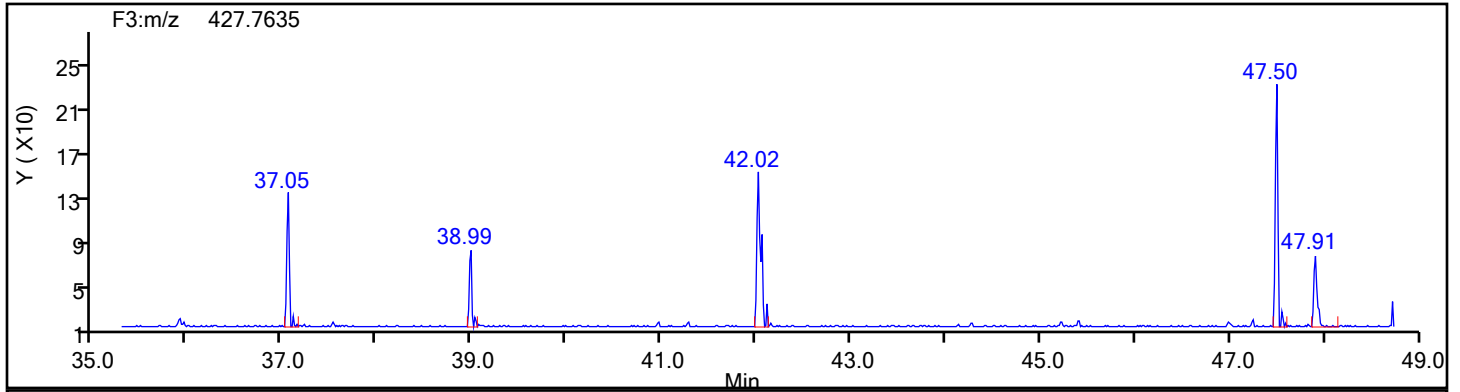


## HpPCB F4 Lock Mass

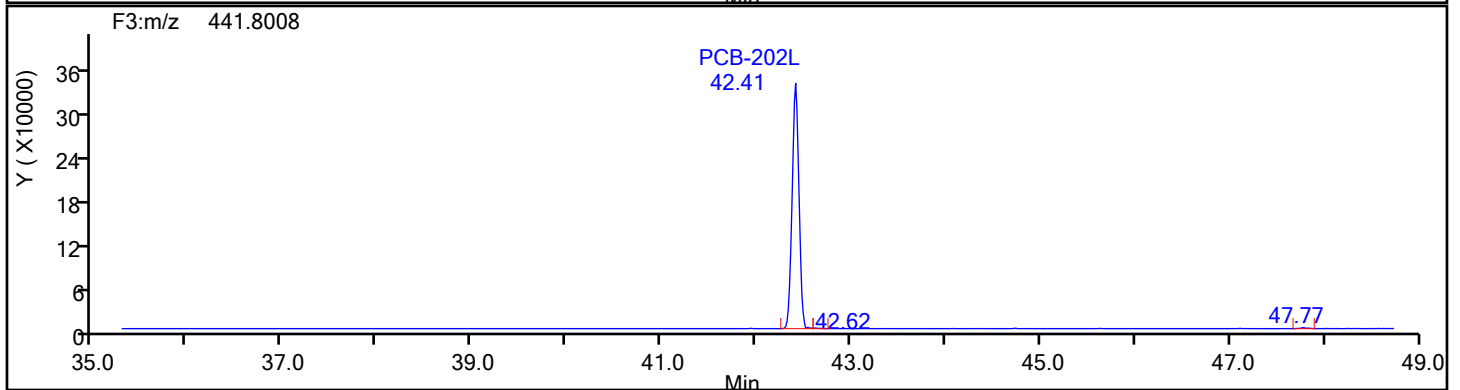
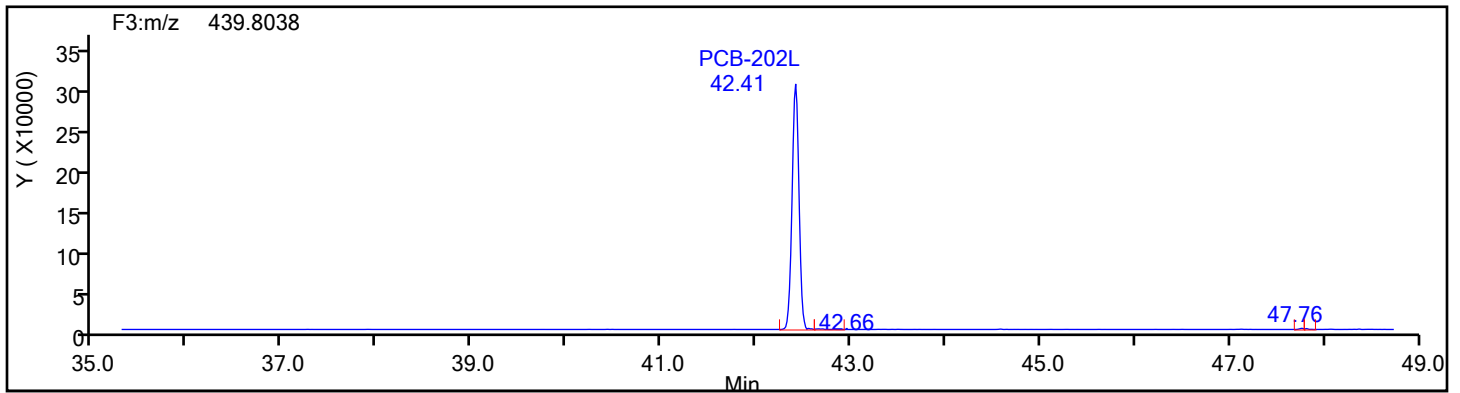


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

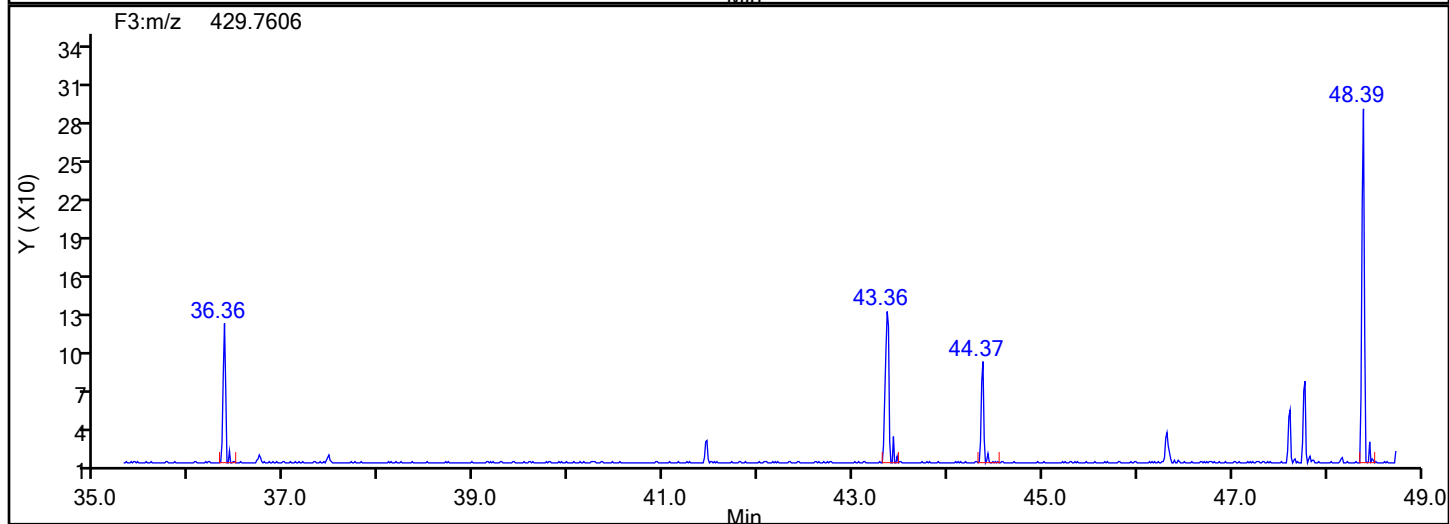
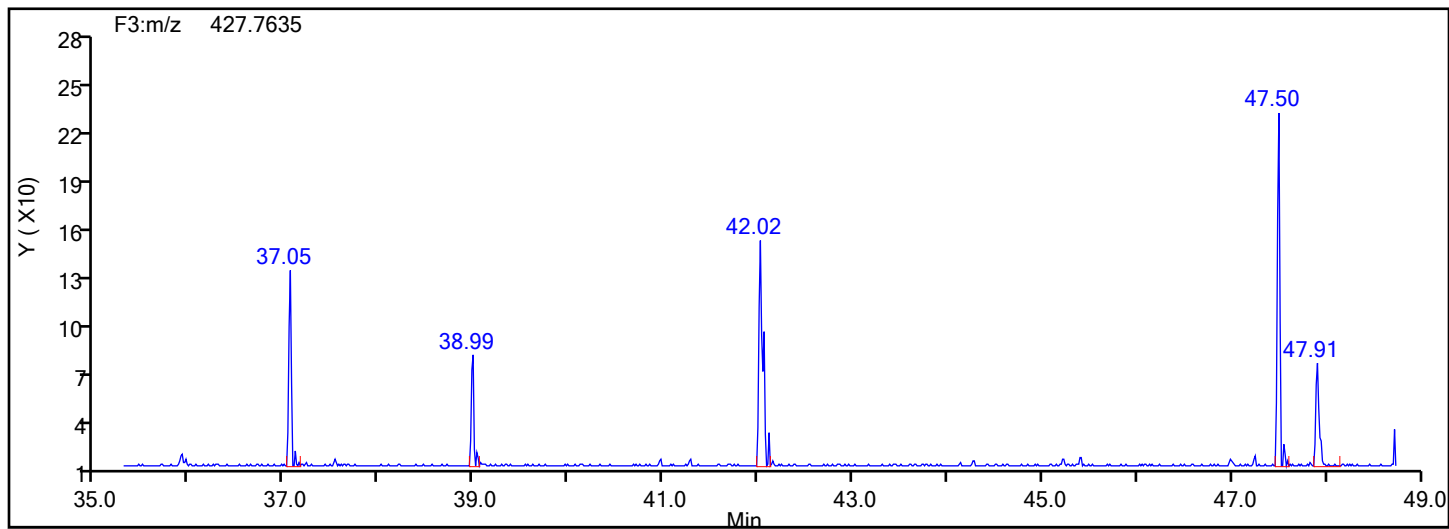


## OcPCB F3 Standards

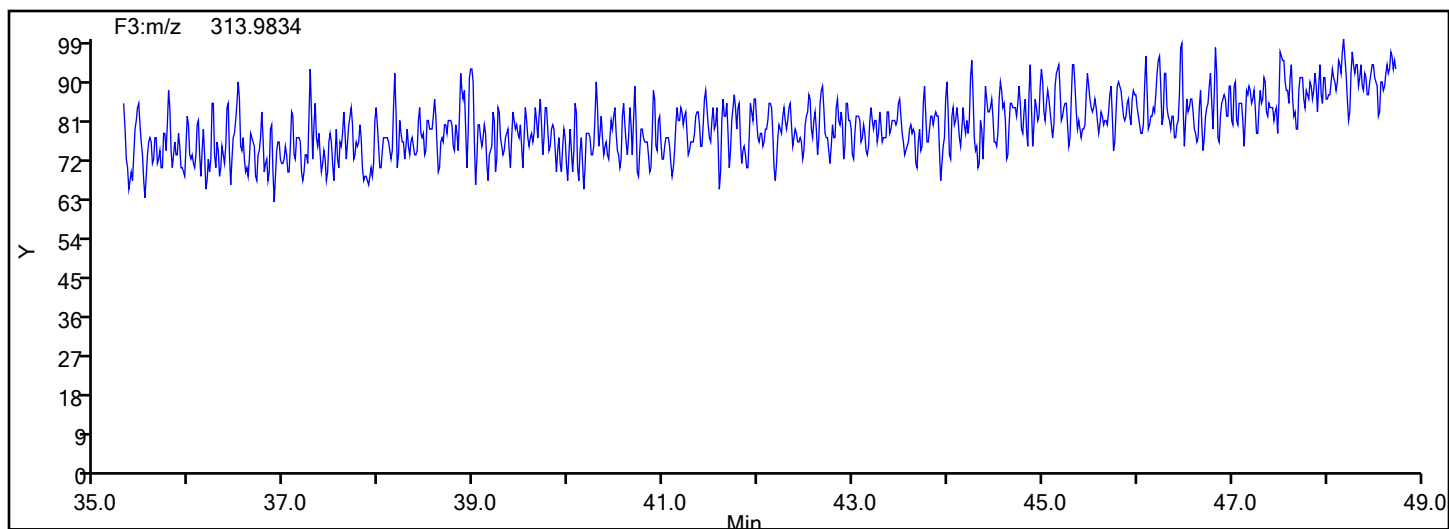


## Eurofins Knoxville

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Injection Date: 02-Jul-2024 19:57:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

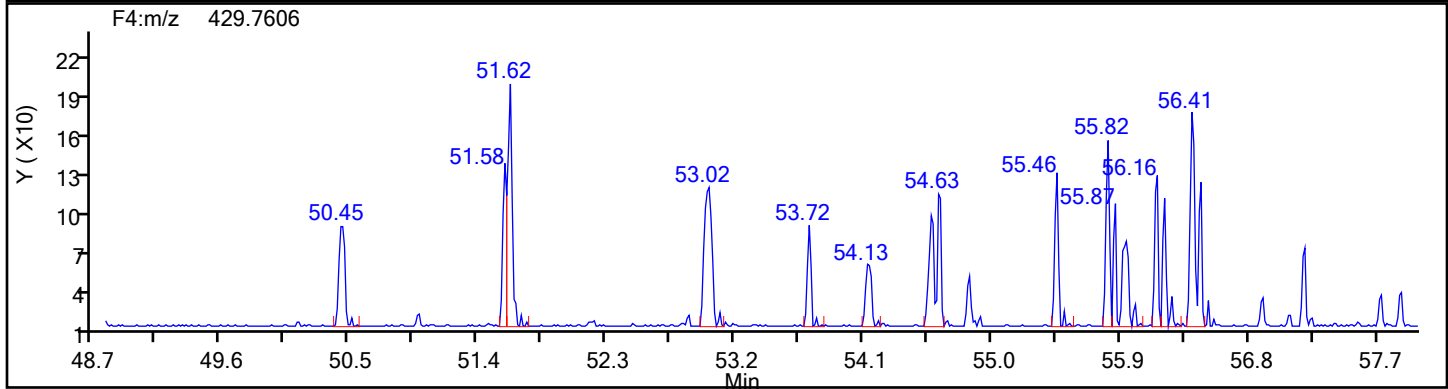
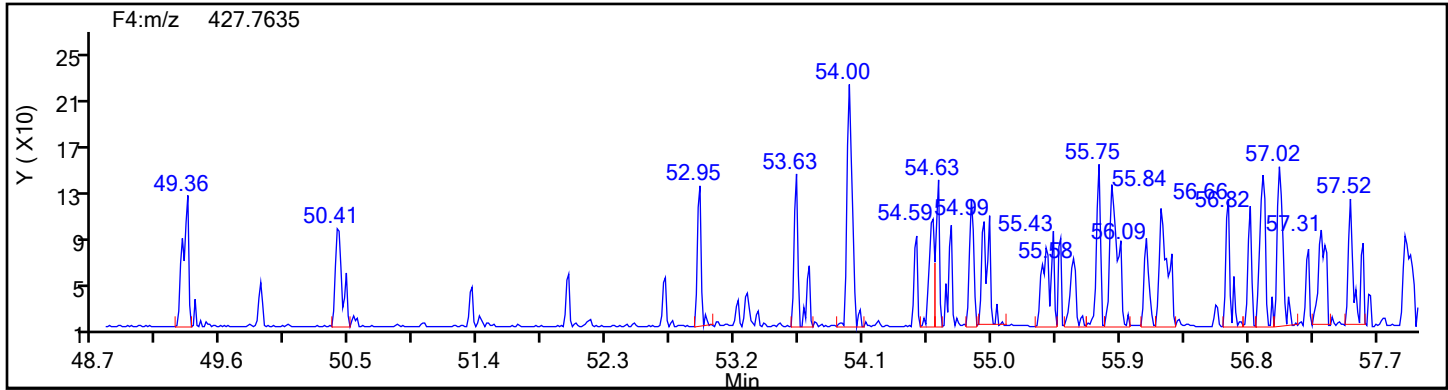


## OcPCB F3 Lock Mass

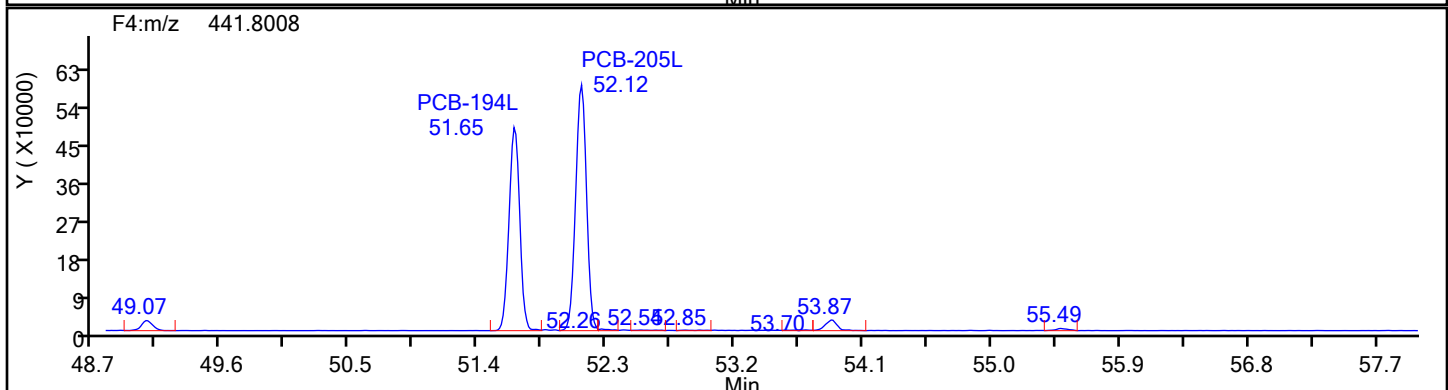
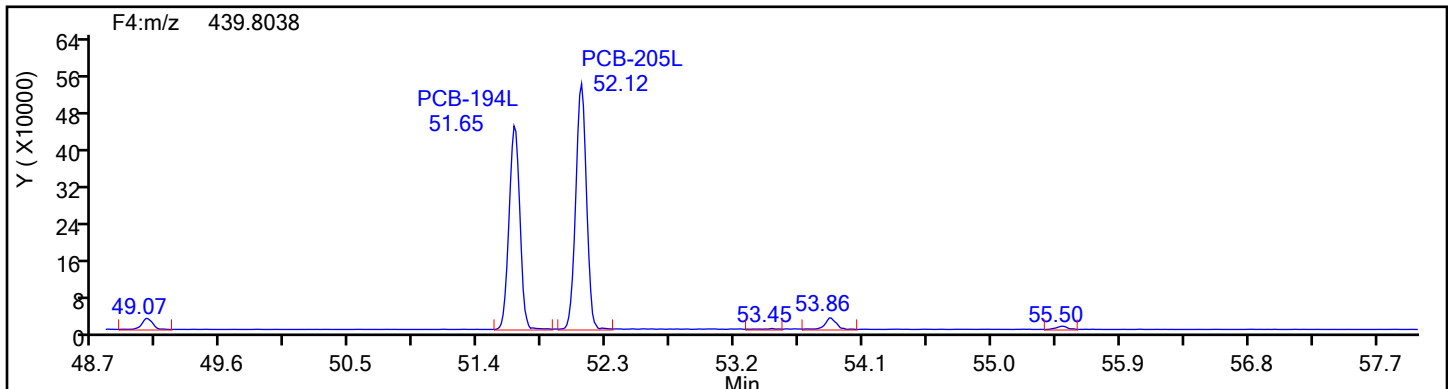


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

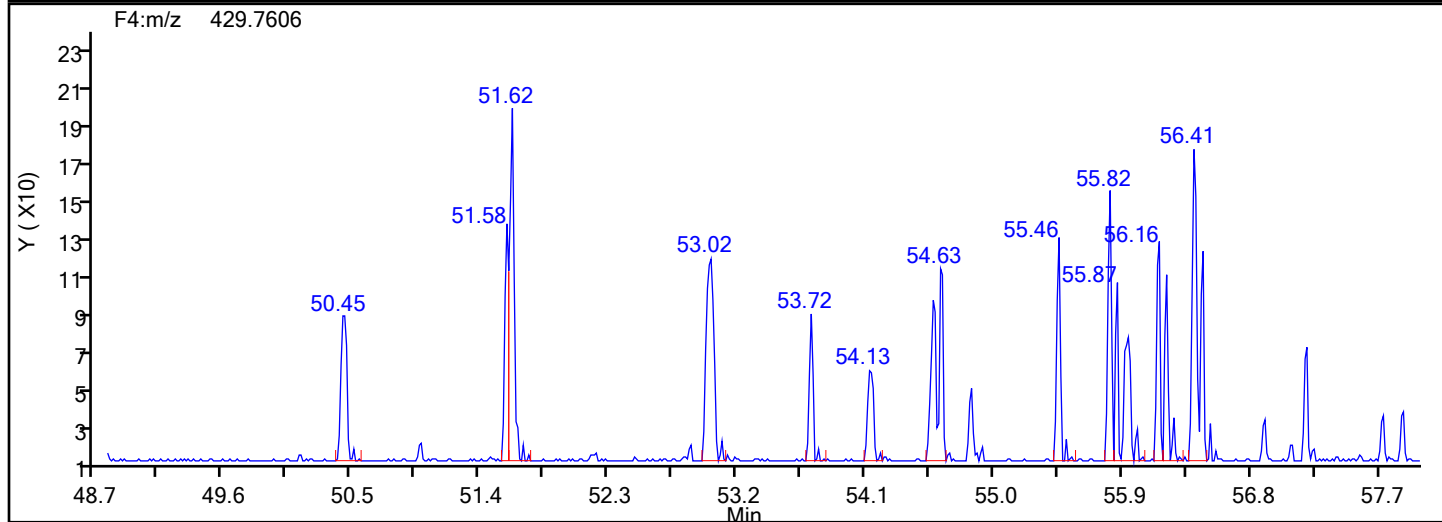
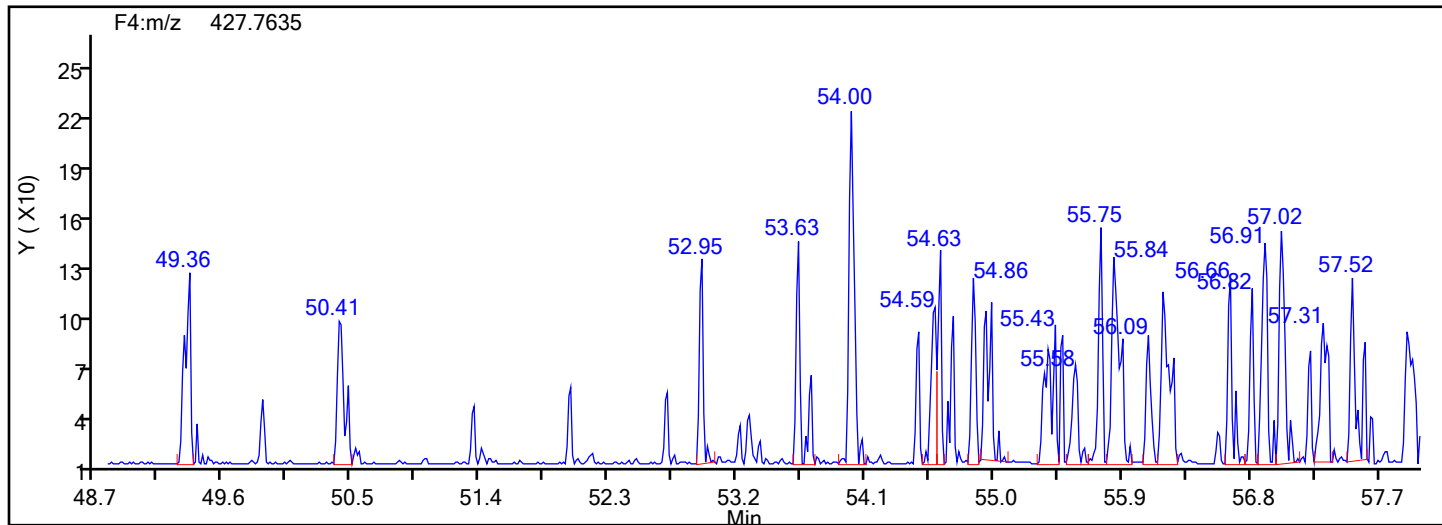


## OcPCB F4 Standards

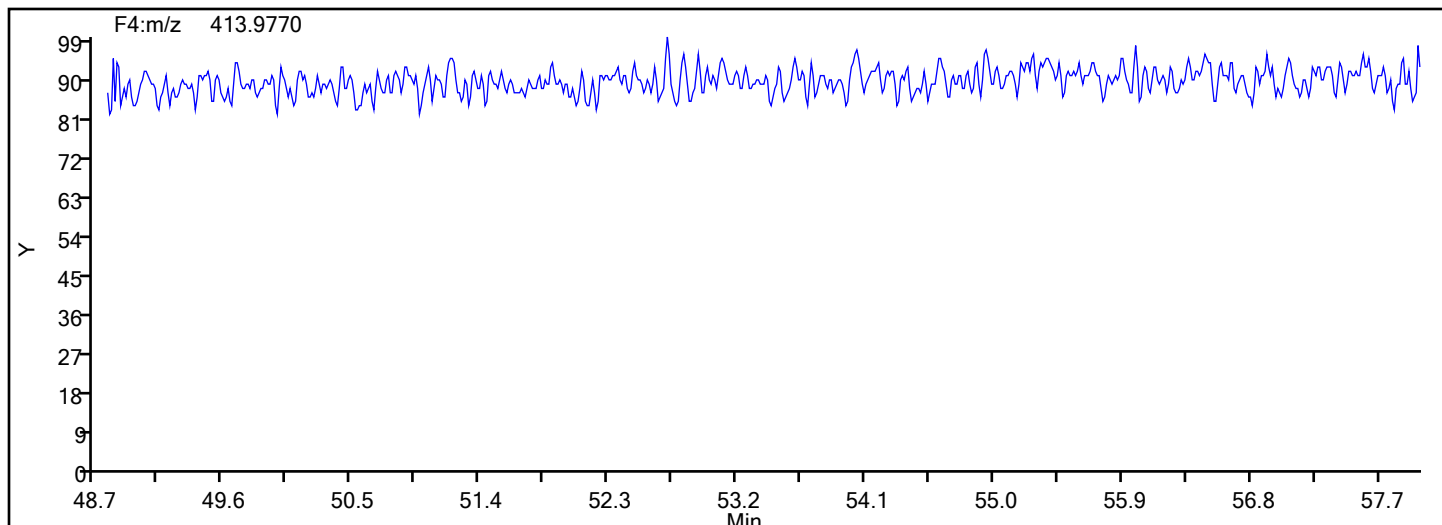


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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

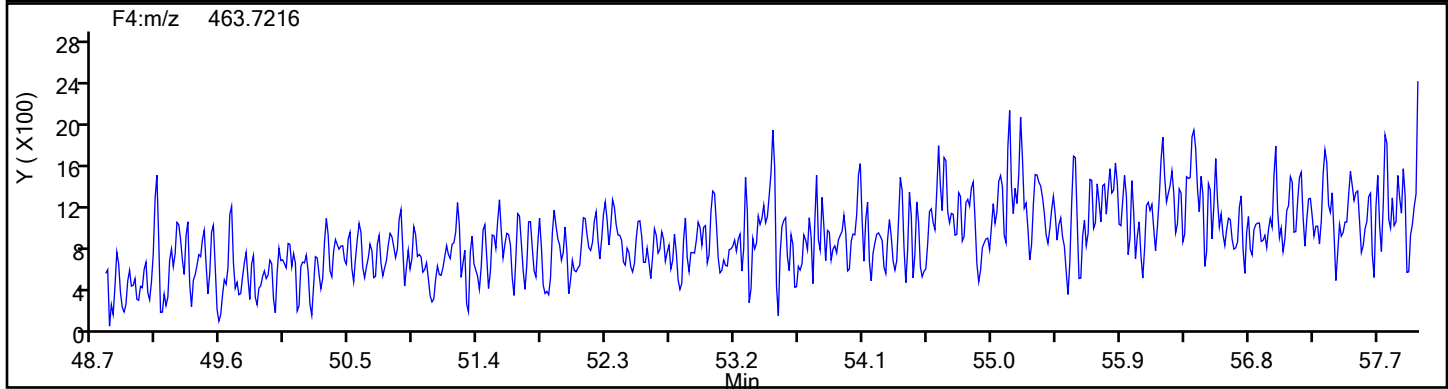
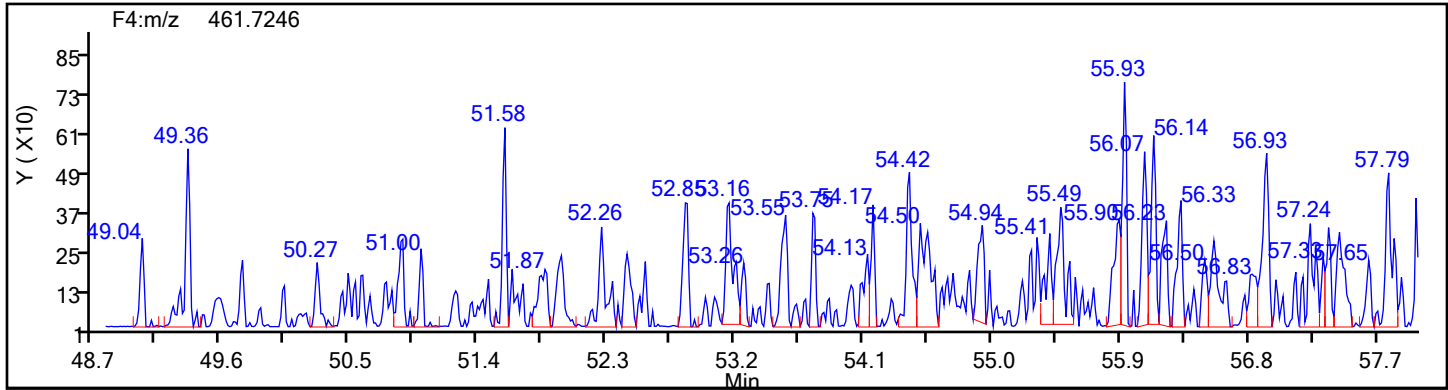


## OcPCB F4 Lock Mass

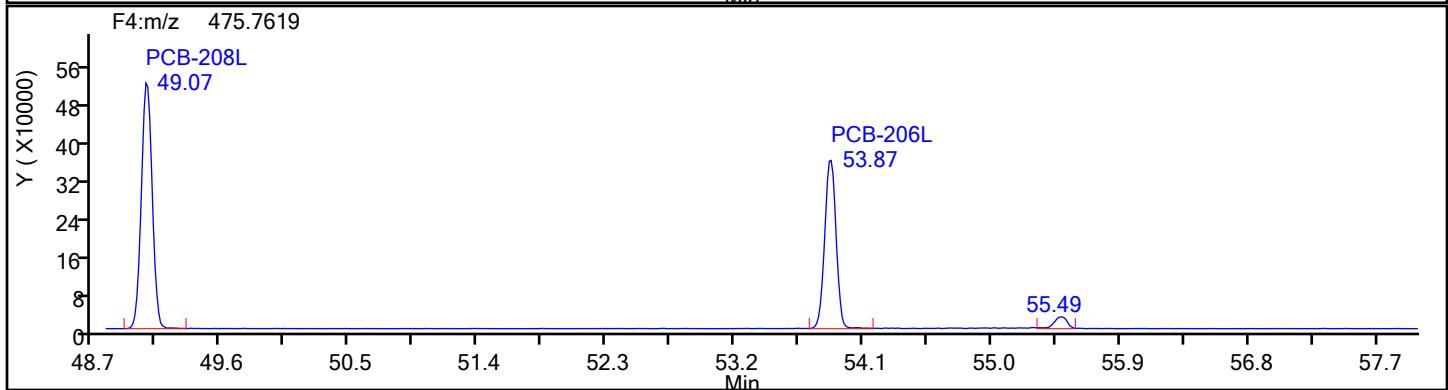
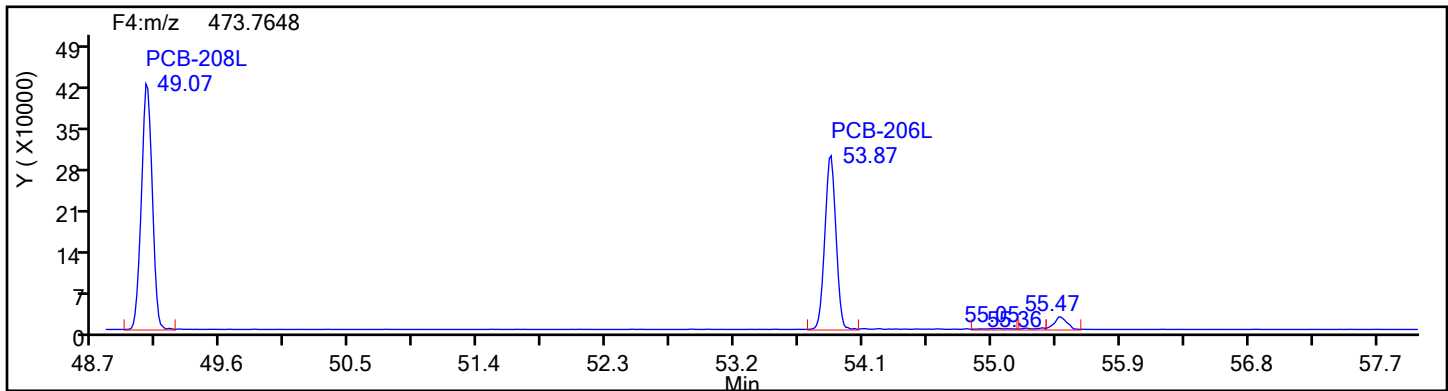


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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

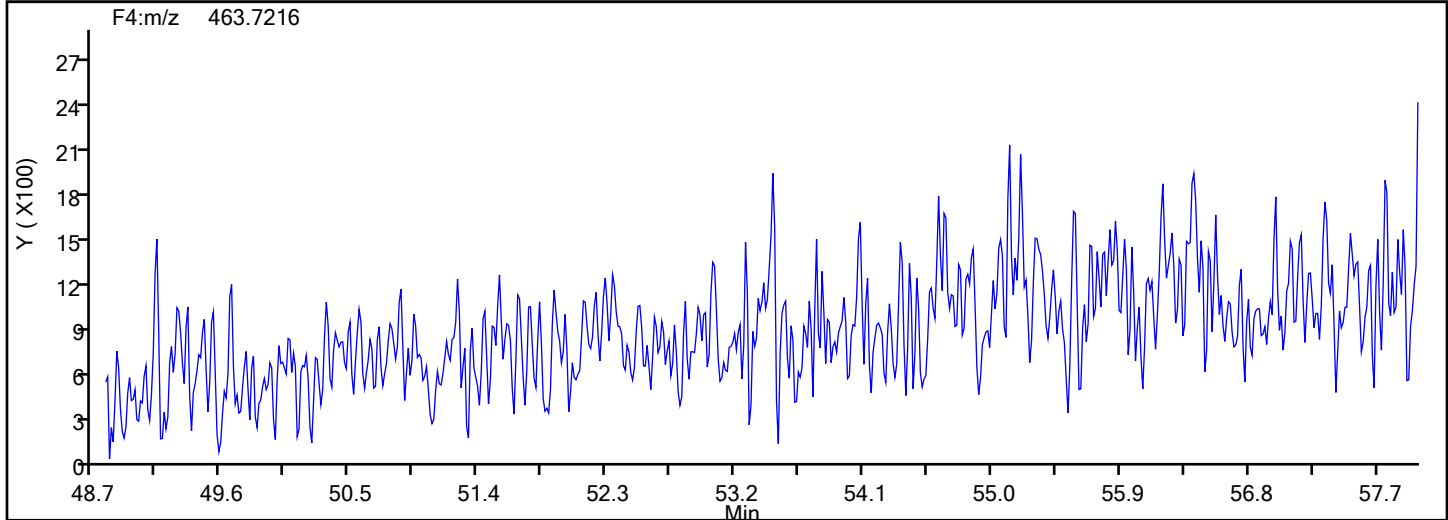
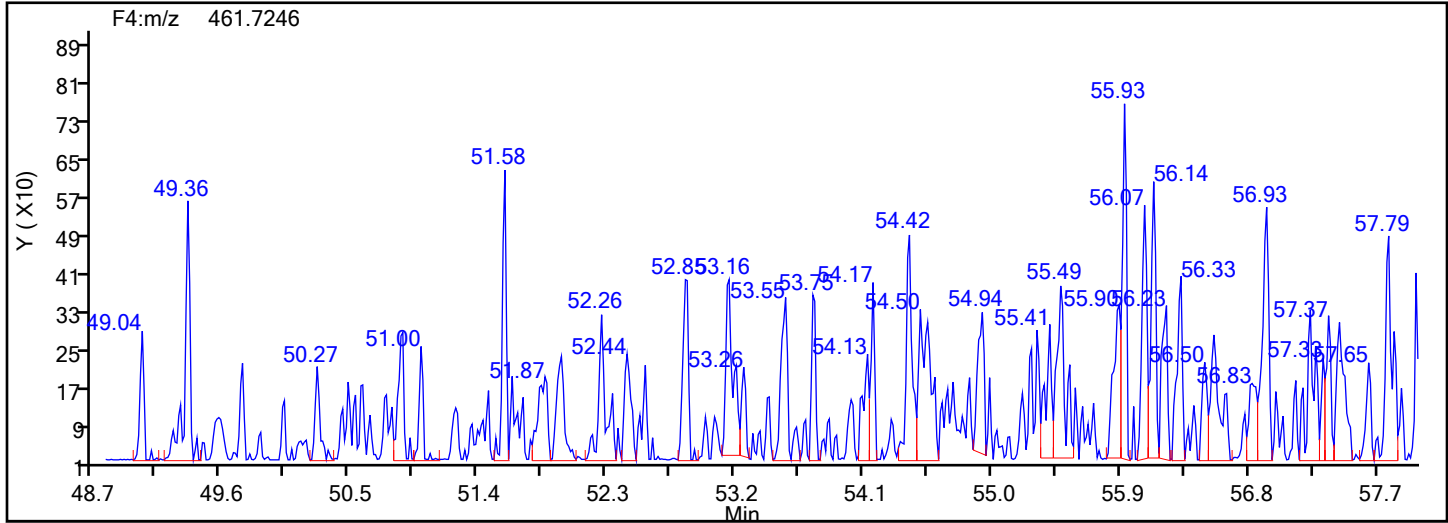


## NoPCB F4 Standards

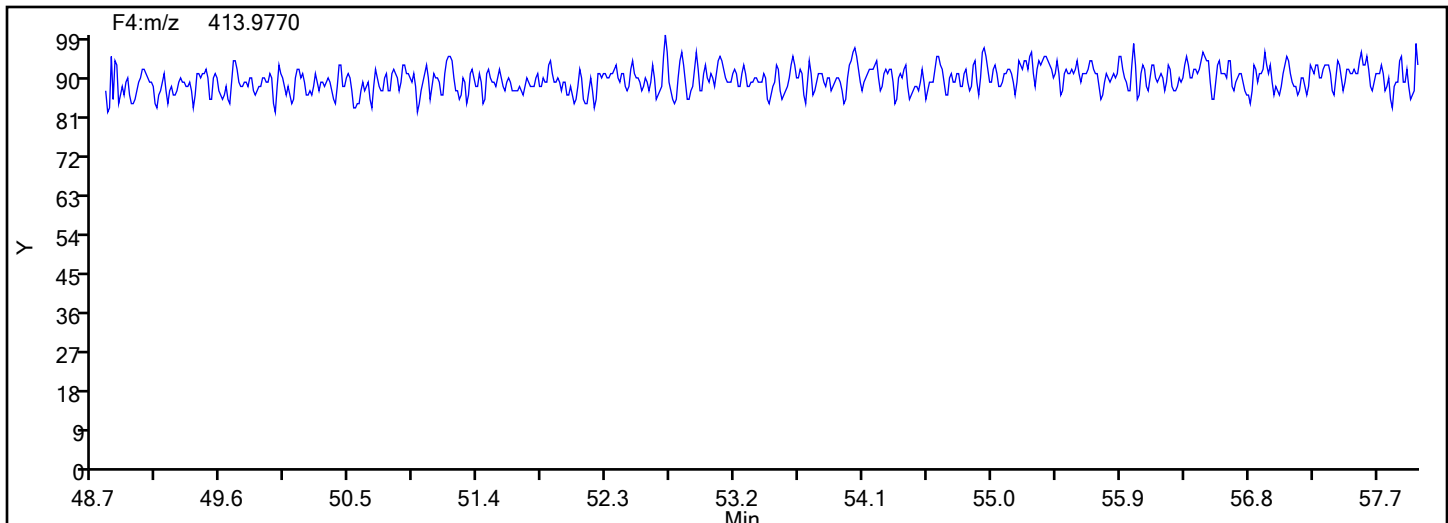


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



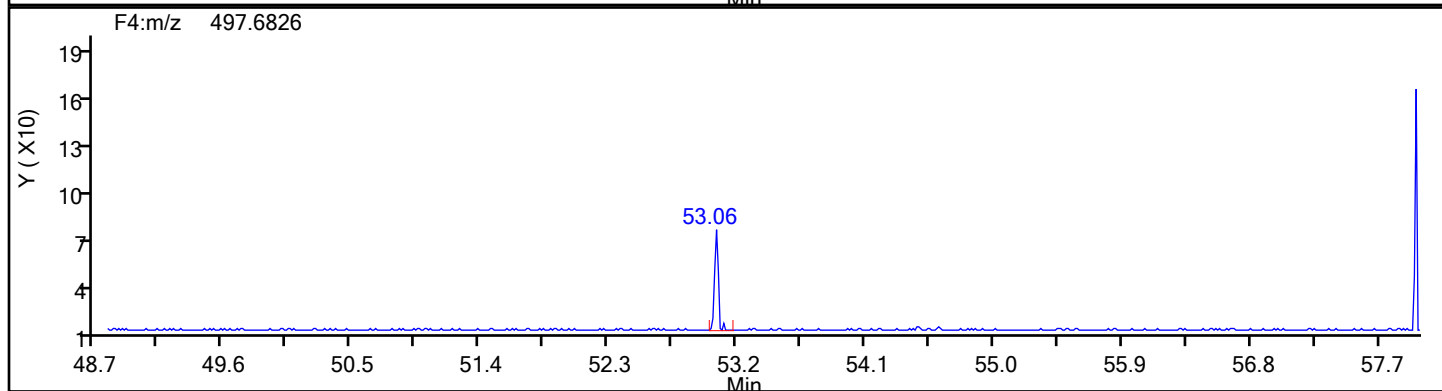
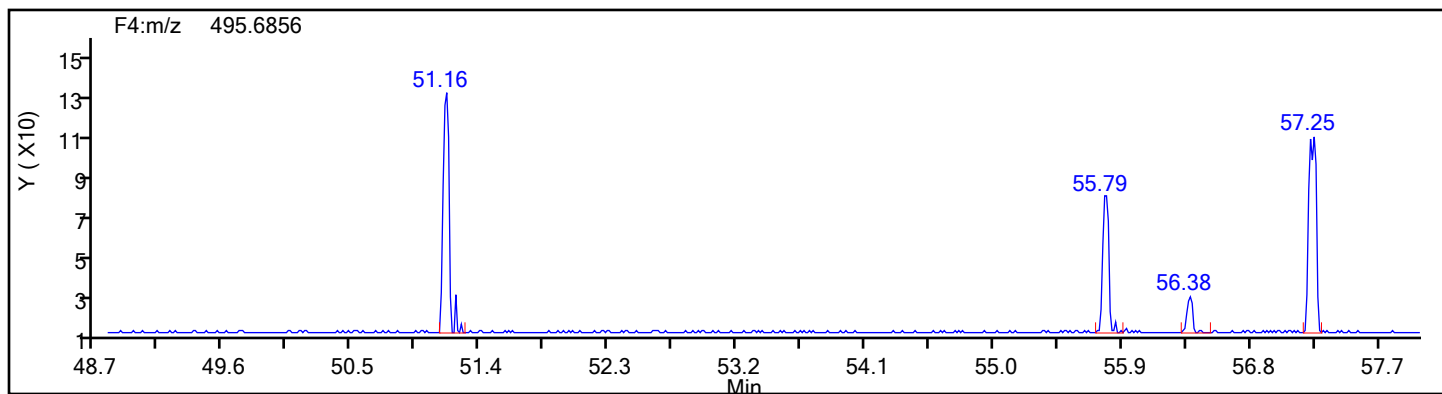
## NoPCB F4 Lock Mass



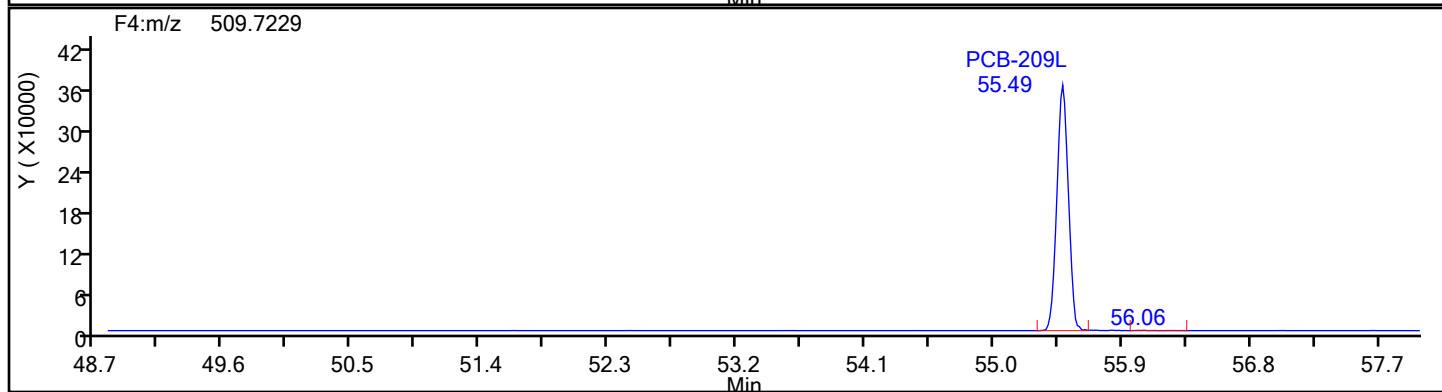
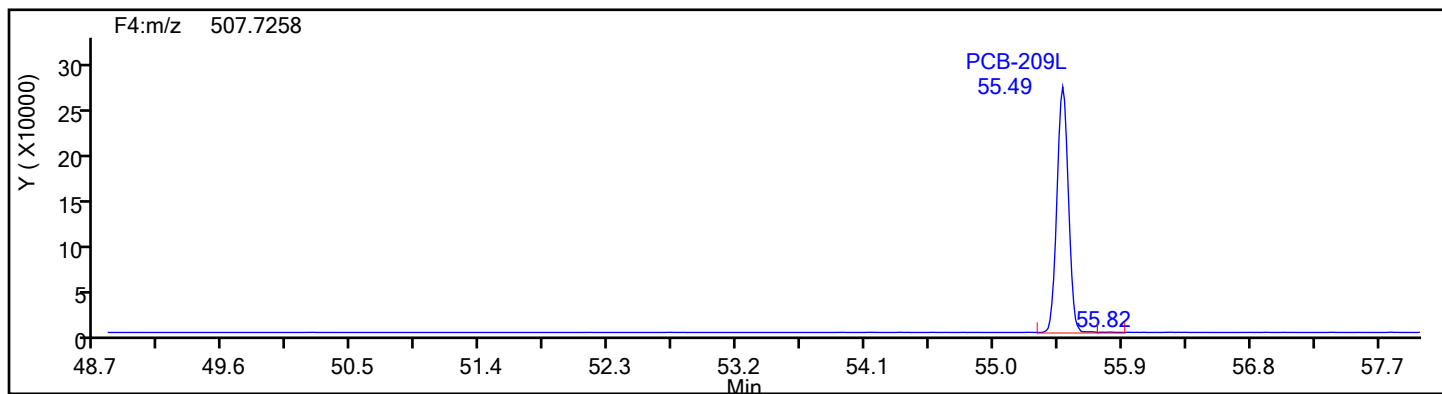


## Eurofins Knoxville

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Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4

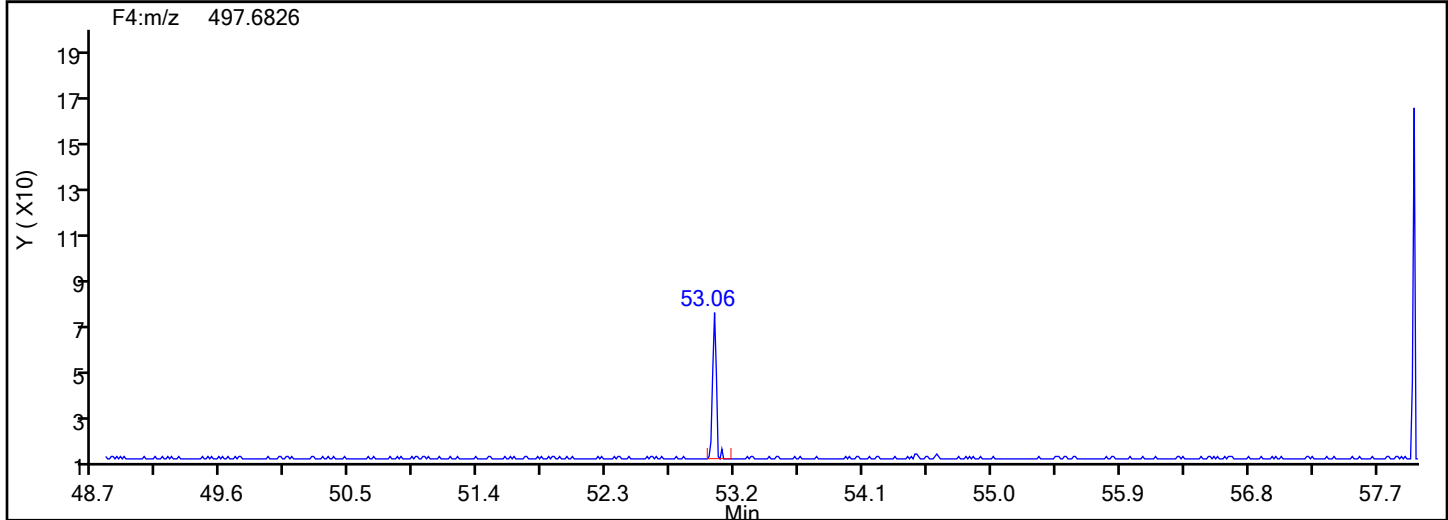
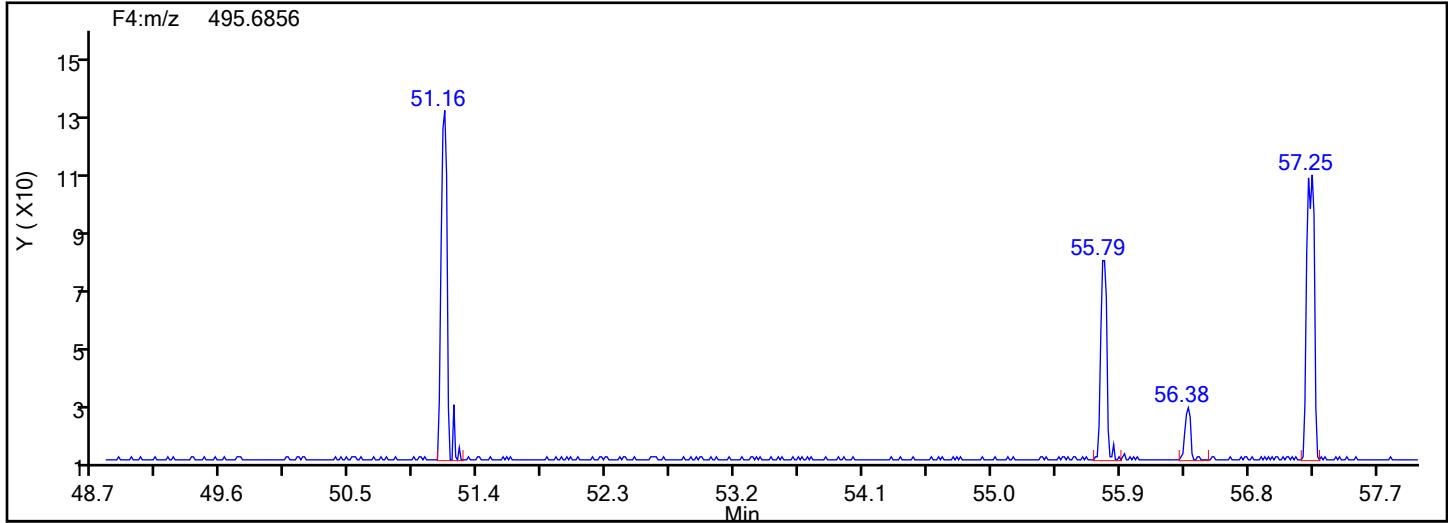


## DePCB F4 Standards

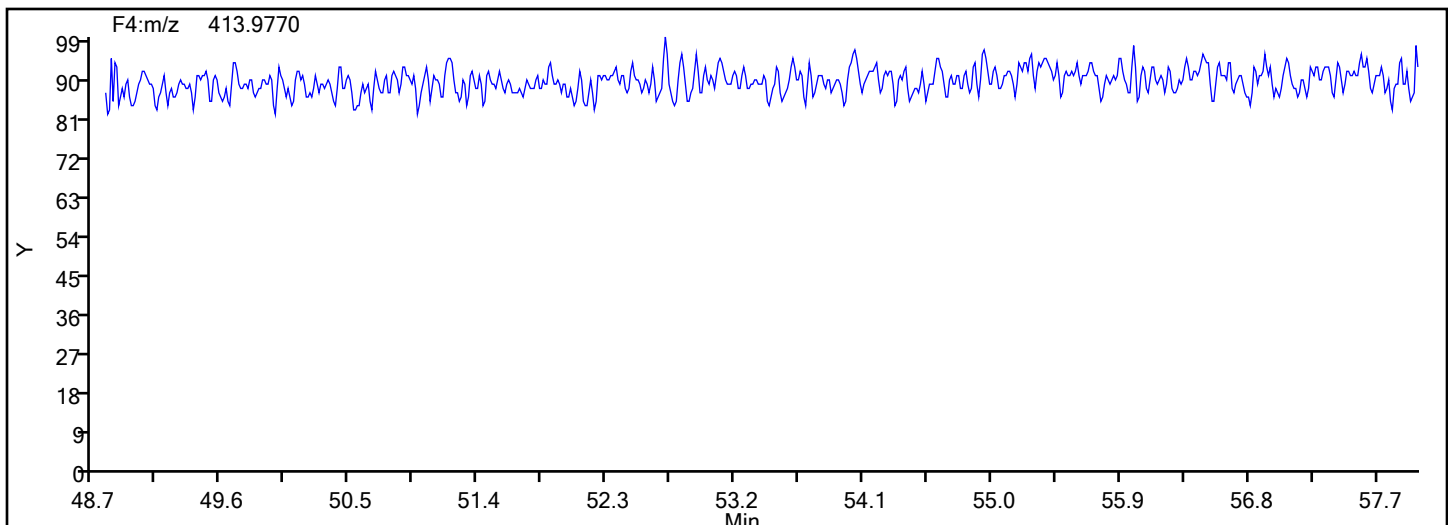


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Worklist#: 88362 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\140-36940-a-4-e.d  
Lims ID: 140-36940-A-4-E  
Client ID: M23 - EPN 4-1/IN-701-RUN 4-COMBINED  
Sample Type: Client  
Inject. Date: 02-Jul-2024 19:57:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033352-006  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 02-Jul-2024 21:38:55 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1606

First Level Reviewer: V4XA

Date: 02-Jul-2024 21:38:55

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	50.7	49.2	97.09
PCB-28L	102.0	91.0	89.22
PCB-79L	50.7	51.3	101.35
PCB-95L	50.7	57.9	114.34
PCB-111L	102.0	93.0	91.20
PCB-153L	50.7	48.6	95.87
PCB-178L	102.0	92.7	90.91

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>5-COMBINED</u>	Lab Sample ID: <u>140-36940-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-5-c5x.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/17/2024 12:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 15:51</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	1.44	J B	3.00	0.660	0.114
37680-65-2	PCB-18	0.408	J q C B	3.00	1.43	0.0130
7012-37-5	PCB-28	0.248	J C20 B	3.00	1.26	0.0187
41464-39-5	PCB-44	2.20	J C	4.50	1.95	0.0399
35693-99-3	PCB-52	0.300	J	1.50	0.660	0.0422
32598-10-0	PCB-66	ND		1.50	0.600	0.0308
32598-13-3	PCB-77	ND		1.50	0.630	0.0352
70362-50-4	PCB-81	ND		1.50	0.480	0.0366
37680-73-2	PCB-101	0.208	J q C90	4.50	1.95	0.0185
32598-14-4	PCB-105	ND		1.50	0.510	0.0820
74472-37-0	PCB-114	ND		1.50	0.825	0.0801
31508-00-6	PCB-118	ND		1.50	0.915	0.0757
65510-44-3	PCB-123	ND		1.50	0.855	0.0872
57465-28-8	PCB-126	ND		1.50	0.615	0.0869
38380-07-3	PCB-128	ND	C	3.00	1.02	0.0210
35065-28-2	PCB-138	0.154	J q C129 B	6.00	2.55	0.0218
35065-27-1	PCB-153	ND	C	3.00	1.25	0.0188
38380-08-4	PCB-156	ND	C	3.00	1.28	0.0233
69782-90-7	PCB-157	ND	C156	3.00	1.28	0.0233
52663-72-6	PCB-167	ND		1.50	0.900	0.0152
32774-16-6	PCB-169	ND		1.50	0.615	0.0149
35065-30-6	PCB-170	ND		1.50	0.660	0.0182
35065-29-3	PCB-180	0.0384	J q C B	3.00	1.02	0.0140
52663-68-0	PCB-187	0.0614	J q	1.50	0.630	0.0148
39635-31-9	PCB-189	ND		1.50	0.735	0.0298
52663-78-2	PCB-195	ND		1.50	0.795	0.0429

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-5  
5-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-5-c5x.d  
Analysis Method: 23 Date Collected: 05/17/2024 12:30  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 15:51  
Con. Extract Vol.: 30 (mL) Dilution Factor: 5  
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88219 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
40186-72-9	PCB-206	ND		1.50	0.855	0.227
2051-24-3	PCB-209	ND		1.50	0.690	0.0139

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>5-COMBINED</u>	Lab Sample ID: <u>140-36940-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-5-c5x.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/17/2024 12:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 15:51</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	60		20-145
208263-77-8	PCB-3L	72		20-145
234432-86-1	PCB-4L	74		20-145
208263-67-6	PCB-15L	89		20-145
234432-87-2	PCB-19L	70		20-145
208263-79-0	PCB-37L	88		20-145
234432-88-3	PCB-54L	90		20-145
105600-23-5	PCB-77L	88		20-145
208461-24-9	PCB-81L	87		20-145
234432-89-4	PCB-104L	86		20-145
208263-62-1	PCB-105L	89		20-145
208263-63-2	PCB-114L	90		20-145
104130-40-7	PCB-118L	86		20-145
208263-64-3	PCB-123L	87		20-145
208263-65-4	PCB-126L	92		20-145
234432-90-7	PCB-155L	87		20-145
208263-68-7	PCB-156L	91	C	20-145
235416-30-5	PCB-157L	91	C156	20-145
208263-69-8	PCB-167L	89		20-145
208263-70-1	PCB-169L	89		20-145
160901-80-4	PCB-170L	90		20-145
234432-91-8	PCB-188L	87		20-145
208263-73-4	PCB-189L	61		20-145
105600-26-8	PCB-202L	84		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	103		20-145
234432-92-9	PCB-208L	109		20-145
105600-27-9	PCB-209L	113		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-5  
5-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-5-c5x.d  
Analysis Method: 23 Date Collected: 05/17/2024 12:30  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 15:51  
Con. Extract Vol.: 30(mL) Dilution Factor: 5  
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25(mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88219 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	84		20-130
235416-29-2	PCB-111L	89		20-130
232919-67-4	PCB-178L	88		20-130
STL01600	PCB-8L	80	q	70-130
STL01603	PCB-79L	96		70-130
STL01604	PCB-95L	105		70-130
STL01606	PCB-153L	89		70-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-5-c5x.d  
Lims ID: 140-36940-A-5-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 15:51:00 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-009  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 17:37:52 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 17:37:52

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					688.2	688.2	0.3305	0.3305		
D PCB-1L	11:40	1785136	3.00	1.6108	11.9	11.9	0.4175	0.4175	59.69	
D PCB-3L	13:48	2121275	2.95	1.5891	14.4	14.4	0.4232	0.4232	71.89	
PCB-1	11:40	6618045	2.92	1.2191	60.8	60.8	0.3385	0.3385		
PCB-2	13:38	42256330	2.95	1.1805	366.5	366.5	0.3375	0.3375		
PCB-3	13:49	33776550	2.93	1.2206	260.9	260.9	0.3155	0.3155		
S Total Dichlorobiphenyls					47.6	47.4	0.0885	0.0885		RQ
D PCB-4L	14:04	894616	1.59	0.6475	14.9	14.9	0.2496	0.2496	74.41	
* PCB-9L	16:01	1856752	1.65		20.0	20.0				
\$ PCB-8L	16:51	429573	1.56	1.2066	6.242	5.312	0.2030	0.2030	93.64	RQ
D PCB-15L	19:56	1786135	1.74	1.0789	17.8	17.8	0.1498	0.1498	89.16	
PCB-4	14:05	63723	1.56	1.2818	1.286	1.111	0.1182	0.1182		RQ
PCB-10	14:14	139233	1.67	1.3149	1.580	1.580	0.0920	0.0920		
PCB-9	16:01	27751	1.67	1.4224	0.2911	0.2911	0.0850	0.0850		
PCB-7	16:11	3081335	1.57	1.4134	32.5	32.5	0.0856	0.0856		
PCB-6	16:26	81368	1.51	1.5421	0.7873	0.7873	0.0784	0.0784		
PCB-5	16:45	33103	1.55	1.3395	0.3688	0.3688	0.0903	0.0903		
PCB-8	16:52	102092	1.70	1.5889	0.9587	0.9587	0.0761	0.0761		
PCB-14	18:30	138679	1.62	1.4025	1.475	1.475	0.0863	0.0863		
PCB-11	19:20	553124	1.58	1.2951	6.373	6.373	0.0934	0.0934		
PCB-12	19:40	156582	1.46	1.3358	1.749	1.749	0.0906	0.0906		
PCB-13 (C12)	19:40	156582	1.46	1.3358	1.749	1.749	0.0906	0.0906		
PCB-15	19:57	24738	1.56	1.2903	0.2147	0.2147	0.0780	0.0780		
S Total Trichlorobiphenyls					2.405	1.994	0.0120	0.0120		RQ
D PCB-19L	17:09	555205	1.07	0.6285	14.0	14.0	0.4536	0.4536	70.16	
* PCB-32L	20:25	1259094	1.13		20.0	20.0				
* PCB-31L	22:39	2073070	1.03		20.0	20.0				
\$ PCB-28L	22:56	1826639	1.02	1.0494	16.8	16.8	0.1331	0.1331	83.97	
D PCB-37L	26:56	1588655	1.05	0.8749	17.5	17.5	0.1597	0.1597	87.59	
PCB-19	17:11	2727	1.04	1.2809	0.1492	0.0767	0.0119	0.0119		RQ
PCB-18	19:03	13321	1.04	1.7652	0.3003	0.2718	0.008647	0.008647		RQa
PCB-30 (C18)	19:03	13321	1.04	1.7652	0.3003	0.2718	0.008647	0.008647		RQa
PCB-17	19:26	7371	1.04	1.2430	0.2353	0.2136	0.0123	0.0123		RQ
PCB-27	19:40	20092	1.04	1.8327	0.5678	0.3949	0.008329	0.008329		RQ



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:48	1333	1.04	1.6777	0.0406	0.0286	0.009099	0.009099		RQ
PCB-16	19:55	4531	1.04	1.1286	0.1634	0.1446	0.0135	0.0135		RQ
PCB-32	20:25	4826	1.04	1.8324	0.1043	0.0949	0.008330	0.008330		RQM
PCB-34	21:41						0.0130	0.0130		
PCB-23	21:49						0.0135	0.0135		
PCB-26	22:09	5865	1.04	1.1255	0.0738	0.0656	0.0130	0.0130		RQ
PCB-29 (C26)	22:09	5865	1.04	1.1255	0.0738	0.0656	0.0130	0.0130		RQ
PCB-25	22:22	2359	1.04	1.2728	0.0285	0.0233	0.0115	0.0115		RQ
PCB-31	22:40	10979	0.88	1.1532	0.1199	0.1199	0.0127	0.0127		M
PCB-20	22:56	15408	1.08	1.1718	0.1655	0.1655	0.0125	0.0125		
PCB-28 (C20)	22:56	15408	1.08	1.1718	0.1655	0.1655	0.0125	0.0125		
PCB-21	23:08	15523	1.16	1.0746	0.1819	0.1819	0.0136	0.0136		M
PCB-33 (C21)	23:08	15523	1.16	1.0746	0.1819	0.1819	0.0136	0.0136		M
PCB-22	23:36	4778	1.04	1.1932	0.0991	0.0504	0.0123	0.0123		RQM
PCB-36	25:10						0.0132	0.0132		
PCB-39	25:31						0.0126	0.0126		
PCB-38	26:06						0.0135	0.0135		
PCB-35	26:33	6646	1.04	1.1297	0.0873	0.0741	0.0129	0.0129		RQMa
PCB-37	27:01	7969	1.14	1.1435	0.0877	0.0877	0.0128	0.0128		M
S Total Tetrachlorobiphenyls					3.122	3.083	0.0237	0.0237		RQ
D PCB-54L	20:14	632652	0.83	0.5562	18.1	18.1	0.0664	0.0664	90.34	
* PCB-52L	24:47	1727630	0.78		20.0	20.0				
\$ PCB-79L	32:40	620474	0.80	1.0018	6.371	6.371	0.0851	0.0851	95.57	
D PCB-81L	33:40	1871797	0.78	1.2470	17.4	17.4	0.0662	0.0662	86.89	
D PCB-77L	34:14	2016658	0.80	1.3212	17.7	17.7	0.0625	0.0625	88.35	
PCB-54	20:16						0.007588	0.007588		
PCB-50	22:25						0.0302	0.0302		
PCB-53 (C50)	22:25						0.0302	0.0302		
PCB-45	23:08	71189	0.82	0.8264	0.8861	0.8861	0.0313	0.0313		
PCB-51 (C45)	23:08	71189	0.82	0.8264	0.8861	0.8861	0.0313	0.0313		
PCB-46	23:24						0.0364	0.0364		
PCB-52	24:47	17857	0.88	0.9194	0.1998	0.1998	0.0281	0.0281		
PCB-43	24:56						0.0250	0.0250		
PCB-73 (C43)	24:56						0.0250	0.0250		
PCB-49	25:15	9095	0.77	1.0685	0.1036	0.0876	0.0242	0.0242		RQ
PCB-69 (C49)	25:15	9095	0.77	1.0685	0.1036	0.0876	0.0242	0.0242		RQ
PCB-48	25:34						0.0308	0.0308		
PCB-44	25:49	138657	0.80	0.9731	1.466	1.466	0.0266	0.0266		
PCB-47 (C44)	25:49	138657	0.80	0.9731	1.466	1.466	0.0266	0.0266		
PCB-65 (C44)	25:49	138657	0.80	0.9731	1.466	1.466	0.0266	0.0266		
PCB-59	26:07						0.0218	0.0218		
PCB-62 (C59)	26:07						0.0218	0.0218		
PCB-75 (C59)	26:07						0.0218	0.0218		
PCB-42	26:19						0.0320	0.0320		
PCB-40	26:49						0.0292	0.0292		
PCB-41 (C40)	26:49						0.0292	0.0292		
PCB-71 (C40)	26:49						0.0292	0.0292		
PCB-64	27:03	3926	0.77	1.1776	0.0567	0.0343	0.0220	0.0220		RQM
PCB-72	27:51						0.0236	0.0236		
PCB-68	28:08	33941	0.72	1.2533	0.2786	0.2786	0.0206	0.0206		M
PCB-57	28:34						0.0239	0.0239		
PCB-58	28:49						0.0195	0.0195		
PCB-67	28:58						0.0182	0.0182		
PCB-63	29:14						0.0230	0.0230		
PCB-61	29:33	16103	0.72	1.2612	0.1313	0.1313	0.0205	0.0205		
PCB-70 (C61)	29:33	16103	0.72	1.2612	0.1313	0.1313	0.0205	0.0205		
PCB-74 (C61)	29:33	16103	0.72	1.2612	0.1313	0.1313	0.0205	0.0205		
PCB-76 (C61)	29:33	16103	0.72	1.2612	0.1313	0.1313	0.0205	0.0205		
PCB-66	29:54						0.0206	0.0206		
PCB-55	30:04						0.0195	0.0195		
PCB-56	30:35						0.0210	0.0210		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:47						0.0230	0.0230		
PCB-80	31:11						0.0195	0.0195		
PCB-79	32:43						0.0180	0.0180		
PCB-78	33:16						0.0223	0.0223		
PCB-81	33:43						0.0244	0.0244		
PCB-77	34:16						0.0235	0.0235		
S Total Pentachlorobiphenyls					0.9644	0.7734	0.0264	0.0264		RQ
D PCB-104L	25:42	1241163	1.51	1.2161	17.2	17.2	0.0310	0.0310	85.81	
\$ PCB-95L	28:41	312724	1.48	0.7218	6.981	6.981	0.0474	0.0474	105	
* PCB-101L	31:36	1189472	1.59		20.0	20.0				
\$ PCB-111L	34:16	1443219	1.56	1.3699	17.7	17.7	0.0276	0.0276	88.57	
D PCB-123L	36:13	1324110	1.49	0.9731	17.4	17.4	0.2984	0.2984	86.98	
D PCB-118L	36:33	1361639	1.51	1.0102	17.2	17.2	0.2875	0.2875	86.16	
D PCB-114L	37:04	1396692	1.57	0.9949	17.9	17.9	0.2919	0.2919	89.74	
D PCB-105L	37:44	1326636	1.59	0.9514	17.8	17.8	0.3053	0.3053	89.13	
* PCB-127L	39:12	1564403	1.55		20.0	20.0				
D PCB-126L	40:49	1352372	1.52	0.9439	18.3	18.3	0.3077	0.3077	91.59	
PCB-104	25:45						0.0117	0.0117		
PCB-96	26:08						0.0108	0.0108		
PCB-103	28:02						0.0135	0.0135		
PCB-94	28:16						0.0154	0.0154		
PCB-95	28:41	6063	1.55	0.8033	0.1695	0.1216	0.0147	0.0147		RQ
PCB-93	28:55						0.0140	0.0140		
PCB-100 (C93)	28:55						0.0140	0.0140		
PCB-98	29:04						0.0143	0.0143		
PCB-102 (C98)	29:04						0.0143	0.0143		
PCB-88	29:34	2276	1.53	0.8013	0.0458	0.0458	0.0147	0.0147		
PCB-91 (C88)	29:34	2276	1.53	0.8013	0.0458	0.0458	0.0147	0.0147		
PCB-84	29:48	2078	1.55	0.7299	0.0567	0.0459	0.0162	0.0162		RQ
PCB-89	30:17						0.0151	0.0151		
PCB-121	30:40						0.009100	0.009100		
PCB-92	31:03						0.0138	0.0138		
PCB-90	31:37	8208	1.55	0.9550	0.1779	0.1385	0.0124	0.0124		RQ
PCB-101 (C90)	31:37	8208	1.55	0.9550	0.1779	0.1385	0.0124	0.0124		RQ
PCB-113 (C90)	31:37	8208	1.55	0.9550	0.1779	0.1385	0.0124	0.0124		RQ
PCB-83	32:11	5664	1.72	0.8385	0.1088	0.1088	0.0141	0.0141		
PCB-99 (C83)	32:11	5664	1.72	0.8385	0.1088	0.1088	0.0141	0.0141		
PCB-112	32:20						0.008361	0.008361		
PCB-86	32:40	7576	1.55	1.0473	0.1637	0.1166	0.0113	0.0113		RQM
PCB-87 (C86)	32:40	7576	1.55	1.0473	0.1637	0.1166	0.0113	0.0113		RQM
PCB-97 (C86)	32:40	7576	1.55	1.0473	0.1637	0.1166	0.0113	0.0113		RQM
PCB-109 (C86)	32:40	7576	1.55	1.0473	0.1637	0.1166	0.0113	0.0113		RQM
PCB-119 (C86)	32:40	7576	1.55	1.0473	0.1637	0.1166	0.0113	0.0113		RQM
PCB-125 (C86)	32:40	7576	1.55	1.0473	0.1637	0.1166	0.0113	0.0113		RQM
PCB-85	33:22	1708	1.55	1.0408	0.0334	0.0264	0.0113	0.0113		RQ
PCB-116 (C85)	33:22	1708	1.55	1.0408	0.0334	0.0264	0.0113	0.0113		RQ
PCB-117 (C85)	33:22	1708	1.55	1.0408	0.0334	0.0264	0.0113	0.0113		RQ
PCB-110	33:36	10769	1.55	1.1919	0.1568	0.1456	0.009899	0.009899		RQ
PCB-115 (C110)	33:36	10769	1.55	1.1919	0.1568	0.1456	0.009899	0.009899		RQ
PCB-82	33:55	530	1.55	0.8303	0.0368	0.0103	0.0142	0.0142		RQ
PCB-111	34:19						0.009730	0.009730		
PCB-120	34:46	1273	1.55	1.4762	0.0149	0.0139	0.007992	0.007992		RQM
PCB-108	35:55						0.0542	0.0542		
PCB-124 (C108)	35:55						0.0542	0.0542		
PCB-107	36:10						0.0510	0.0510		
PCB-123	36:16						0.0581	0.0581		
PCB-106	36:23						0.0570	0.0570		
PCB-118	36:36						0.0505	0.0505		
PCB-122	36:57						0.0646	0.0646		
PCB-114	37:07						0.0534	0.0534		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:47						0.0547	0.0547		
PCB-127	39:14						0.0543	0.0543		
PCB-126	40:52						0.0580	0.0580		
S Total Hexachlorobiphenyls					0.1257	0.1122	0.0114	0.0114		RQ
D PCB-155L	31:21	1121060	1.28	1.0851	17.4	17.4	0.0379	0.0379	86.85	
\$ PCB-153L	38:25	458006	1.35	0.9169	5.915	5.915	0.0897	0.0897	88.73	
* PCB-138L	39:40	1525215	1.27		20.0	20.0				
D PCB-167L	42:39	1704857	1.31	1.2572	17.8	17.8	0.0608	0.0608	88.91	
D PCB-156L	43:49	3368101	1.29	1.2106	36.5	36.5	0.0631	0.0631	91.21	
D PCB-157L (C156L)	43:49	3368101	1.29	1.2106	36.5	36.5	0.0631	0.0631	91.21	
D PCB-169L	47:03	1682367	1.24	1.2439	17.7	17.7	0.0614	0.0614	88.68	
PCB-155	31:23						0.003129	0.003129		
PCB-152	31:37						0.002986	0.002986		
PCB-150	31:46						0.002917	0.002917		
PCB-136	32:09						0.002921	0.002921		
PCB-145	32:26						0.003051	0.003051		
PCB-148	33:56						0.003887	0.003887		
PCB-135	34:32	386	1.24	0.7256	0.0104	0.009491	0.004073	0.004073		RQ
PCB-151 (C135)	34:32	386	1.24	0.7256	0.0104	0.009491	0.004073	0.004073		RQ
PCB-154	34:46						0.003635	0.003635		
PCB-144	35:05						0.003763	0.003763		
PCB-147	35:28						0.0153	0.0153		
PCB-149 (C147)	35:28						0.0153	0.0153		
PCB-134	35:46						0.0172	0.0172		
PCB-143 (C134)	35:46						0.0172	0.0172		
PCB-139	36:02						0.0157	0.0157		
PCB-140 (C139)	36:02						0.0157	0.0157		
PCB-131	36:16						0.0183	0.0183		
PCB-142	36:24						0.0183	0.0183		
PCB-132	36:43						0.0183	0.0183		
PCB-133	37:13						0.0170	0.0170		
PCB-165	37:36						0.0134	0.0134		
PCB-146	37:51						0.0142	0.0142		
PCB-161	37:59						0.0122	0.0122		
PCB-153	38:29						0.0126	0.0126		
PCB-168 (C153)	38:29						0.0126	0.0126		
PCB-141	38:40						0.0157	0.0157		
PCB-130	39:05						0.0195	0.0195		
PCB-137	39:17						0.0177	0.0177		
PCB-164	39:25						0.0132	0.0132		
PCB-129	39:43	8211	1.24	0.9464	0.1153	0.1027	0.0145	0.0145		RQM
PCB-138 (C129)	39:43	8211	1.24	0.9464	0.1153	0.1027	0.0145	0.0145		RQM
PCB-160 (C129)	39:43	8211	1.24	0.9464	0.1153	0.1027	0.0145	0.0145		RQM
PCB-163 (C129)	39:43	8211	1.24	0.9464	0.1153	0.1027	0.0145	0.0145		RQM
PCB-158	40:06						0.0105	0.0105		
PCB-128	40:57						0.0140	0.0140		
PCB-166 (C128)	40:57						0.0140	0.0140		
PCB-159	41:57						0.0099	0.0099		
PCB-162	42:15						0.0109	0.0109		
PCB-167	42:42						0.0101	0.0101		
PCB-156	43:52						0.0155	0.0155		
PCB-157 (C156)	43:52						0.0155	0.0155		
PCB-169	47:05						0.0099	0.0099		
S Total Heptachlorobiphenyls					0.1770	0.1506	0.0105	0.0105		RQ
D PCB-188L	37:04	1436673	1.07	1.3133	17.5	17.5	0.0193	0.0193	87.33	
\$ PCB-178L	40:07	1133355	1.05	1.0313	17.5	17.5	0.0246	0.0246	87.73	
* PCB-180L	45:12	1252610	1.07		20.0	20.0				
D PCB-170L	46:28	938412	1.04	0.8362	17.9	17.9	0.0303	0.0303	89.59	
D PCB-189L	49:34	1259576	1.03	1.4414	12.2	12.2	0.2206	0.2206	60.96	
PCB-188	37:07						0.007712	0.007712		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:28						0.007625	0.007625		
PCB-184	37:58						0.007962	0.007962		
PCB-176	38:20						0.008828	0.008828		
PCB-186	38:48						0.007387	0.007387		
PCB-178	40:10						0.0122	0.0122		
PCB-175	40:46	798	1.04	0.9524	0.0141	0.0141	0.0114	0.0114		
PCB-187	41:04	2678	1.05	1.1018	0.0447	0.0409	0.009880	0.009880		RQM
PCB-182	41:16						0.0118	0.0118		
PCB-183	41:41						0.0111	0.0111		
PCB-185 (C183)	41:41						0.0111	0.0111		
PCB-174	41:56						0.0113	0.0113		
PCB-177	42:22						0.0111	0.0111		
PCB-181	42:44						0.0115	0.0115		
PCB-171	42:54	2430	1.05	0.9336	0.0496	0.0438	0.0117	0.0117		RQM
PCB-173 (C171)	42:54	2430	1.05	0.9336	0.0496	0.0438	0.0117	0.0117		RQM
PCB-172	44:36						0.0128	0.0128		
PCB-192	44:52						0.008088	0.008088		
PCB-180	45:13	1773	1.05	1.1676	0.0399	0.0256	0.009323	0.009323		RQ
PCB-193 (C180)	45:13	1773	1.05	1.1676	0.0399	0.0256	0.009323	0.009323		RQ
PCB-191	45:36						0.008444	0.008444		
PCB-170	46:31						0.0121	0.0121		
PCB-190	47:04	2071	1.05	1.3322	0.0286	0.0262	0.008171	0.008171		RQM
PCB-189	49:37						0.0199	0.0199		
S Total Octachlorobiphenyls					0.0728	0.0434	0.0110	0.0110		RQ
D PCB-202L	42:26	1035705	0.94	0.9818	16.8	16.8	0.0382	0.0382	84.22	
* PCB-194L	51:40	1433401	0.89		20.0	20.0				
D PCB-205L	52:08	1506267	0.90	1.1786	17.8	17.8	0.1797	0.1797	89.16	
PCB-202	42:29						0.005379	0.005379		
PCB-201	43:24	217	0.89	0.9754	0.0119	0.004296	0.005713	0.005713		RQ
PCB-204	44:00	952	0.89	1.0485	0.0232	0.0175	0.005314	0.005314		RQ
PCB-197	44:18						0.004863	0.004863		
PCB-200	44:25						0.005532	0.005532		
PCB-198	47:15	971	0.89	0.8698	0.0377	0.0216	0.006406	0.006406		RQM
PCB-199 (C198)	47:15	971	0.89	0.8698	0.0377	0.0216	0.006406	0.006406		RQM
PCB-196	47:51						0.007138	0.007138		
PCB-203	48:03						0.005996	0.005996		
PCB-195	49:23						0.0286	0.0286		
PCB-194	51:43						0.0243	0.0243		
PCB-205	52:11						0.0217	0.0217		
S Total Nonachlorobiphenyls							0.1511	0.1511		
D PCB-208L	49:05	1495509	0.76	0.9576	21.8	21.8	0.2124	0.2124	109	
D PCB-206L	53:53	1023824	0.80	0.6947	20.6	20.6	0.2928	0.2928	103	
PCB-208	49:08						0.1275	0.1275		
PCB-207	50:03						0.1227	0.1227		
PCB-206	53:56						0.1511	0.1511		
D PCB-209L	55:31	1076185	0.72	0.6669	22.5	22.5	0.0896	0.0896	113	
DCB Decachlorobiphenyl	55:34	207	0.69	1.1004	0.0154	0.003496	0.009286	0.009286		RQ
S Polychlorinated biphenyls, Total					54.5	0.003496	0.0382	0.0382		RQ

**QC Flag Legend**

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-5-c5x.d  
Lims ID: 140-36940-A-5-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 15:51:00 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-009  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 17:37:52 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 17:37:52

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:40	11:40	-1	0.728	1339143	508082	4109	10272	124		
202.0766	11:39	11:40	-1	0.727	445993	166446	3322	8305	50	3.00(2.66-3.60)	
PCB-3L											
200.0795	13:48	13:48	-1	0.862	1583934	549070	4109	10272	134		
202.0766	13:48	13:48	-1	0.862	537341	173928	3322	8305	52	2.95(2.66-3.60)	
PCB-1											
188.0393	11:40	11:40	-1	1.000	4929819	1902276	2647	6617	719		
190.0363	11:40	11:40	-1	1.000	1688226	659094	2921	7302	226	2.92(2.66-3.60)	
PCB-2											
188.0393	13:38	13:38	-1	0.988	31548031	11279314	2647	6617	4261		
190.0363	13:38	13:38	-1	0.988	10708299	3806605	2921	7302	1303	2.95(2.66-3.60)	
PCB-3											
188.0393	13:49	13:49	-1	1.001	25176585	8644050	2647	6617	3266		
190.0363	13:49	13:49	-1	1.001	8599965	2906339	2921	7302	995	2.93(2.66-3.60)	
PCB-4L											
234.0406	14:04	14:03	0	0.878	549612	178579	617	1542	289		
236.0376	14:04	14:03	0	0.878	345004	112524	1169	2922	96	1.59(1.33-1.79)	
PCB-9L											
234.0406	16:01	16:01	-1		1155277	343759	617	1542	557		
236.0376	16:01	16:01	-1		701475	208749	1169	2922	179	1.65(1.33-1.79)	
PCB-8L											
234.0406	16:51	16:52	-1	1.198	336993	81626	617	1542	132		
	Empc Correction				261771	78332	617	1542	127		
236.0376	16:51	16:52	-1	1.198	167802	50213	1169	2922	43	2.01(1.33-1.79)	

RQ

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:56	19:55	0	1.245	1133989	273708	617	1542	444		
236.0376	19:56	19:55	0	1.245	652146	164302	1169	2922	141	1.74(1.33-1.79)	
PCB-4											
222.0003	14:05	14:05	-1	1.001	48841	12300	676	1690	18		RQ
	Empc Correction				38831	12266	676	1690	18		
223.9974	14:05	14:05	-1	1.001	24892	7863	206	515	38	1.96(1.33-1.79)	
PCB-10											
222.0003	14:14	14:15	-1	1.012	87132	28440	676	1690	42		
223.9974	14:14	14:15	-1	1.012	52101	16280	206	515	79	1.67(1.33-1.79)	
PCB-9											
222.0003	16:01	16:02	-1	1.139	17374	5592	676	1690	8		
223.9974	16:02	16:02	0	1.140	10377	2707	206	515	13	1.67(1.33-1.79)	
PCB-7											
222.0003	16:11	16:12	-1	1.151	1882409	563197	676	1690	833		
223.9974	16:11	16:12	-1	1.151	1198926	356689	206	515	1732	1.57(1.33-1.79)	
PCB-6											
222.0003	16:26	16:27	-1	1.168	48953	13281	676	1690	20		
223.9974	16:26	16:27	-1	1.168	32415	8543	206	515	41	1.51(1.33-1.79)	
PCB-5											
222.0003	16:45	16:46	-1	1.191	20142	6168	676	1690	9		
223.9974	16:44	16:46	-1	1.190	12961	3203	206	515	16	1.55(1.33-1.79)	
PCB-8											
222.0003	16:52	16:53	-1	1.199	64269	18468	676	1690	27		
223.9974	16:52	16:53	-1	1.199	37823	11534	206	515	56	1.70(1.33-1.79)	
PCB-14											
222.0003	18:30	18:29	0	0.927	85762	22114	676	1690	33		
223.9974	18:30	18:29	0	0.927	52917	12522	206	515	61	1.62(1.33-1.79)	
PCB-11											
222.0003	19:20	19:20	0	0.970	338394	90588	676	1690	134		
223.9974	19:20	19:20	0	0.970	214730	54909	206	515	267	1.58(1.33-1.79)	
PCB-12											
222.0003	19:40	19:38	2	0.986	92914	19160	676	1690	28		
223.9974	19:40	19:38	2	0.987	63668	10383	206	515	50	1.46(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:40	19:38	2	0.986	92914	19160	676	1690	28		
223.9974	19:40	19:38	2	0.987	63668	10383	206	515	50	1.46(1.33-1.79)	
PCB-15											
222.0003	19:57	19:57	0	1.001	15086	4521	676	1690	7		
223.9974	19:57	19:57	0	1.001	9652	2629	206	515	13	1.56(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:10	-1	0.840	287440	81229	755	1887	108		
269.9986	17:09	17:10	-1	0.840	267765	76001	1026	2565	74	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:25	20:25	0		667550	165604	755	1887	219		
269.9986	20:25	20:25	0		591544	146723	1026	2565	143	1.13(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:39	22:39	0		1051209	245214	678	1695	362		
269.9986	22:39	22:39	0		1021861	248700	702	1755	354	1.03(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:57	-1	1.012	922308	222145	678	1695	328		
269.9986	22:56	22:57	-1	1.012	904331	217222	702	1755	309	1.02(0.88-1.20)	
PCB-37L											
268.0016	26:56	26:57	-1	1.189	812152	168531	678	1695	249		
269.9986	26:56	26:57	-1	1.189	776503	169281	702	1755	241	1.05(0.88-1.20)	
PCB-19											
255.9613	17:11	17:11	-1	1.002	3968	1430	25	62	57		RQ
	Empc Correction				1390	376	25	62	15		
257.9584	17:11	17:11	-1	1.002	1337	362	23	57	16	2.97(0.88-1.20)	
PCB-18											
255.9613	19:03	19:03	4	1.111	8187	1989	25	62	80		RQa
	Empc Correction				6791	2040	25	62	82		a
257.9584	19:02	19:03	2	1.110	6530	1962	23	57	85	1.25(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:03	19:03	4	1.111	8187	1989	25	62	80		RQa
	Empc Correction				6791	2040	25	62	82		a
257.9584	19:02	19:03	2	1.110	6530	1962	23	57	85	1.25(0.88-1.20)	
PCB-17											
255.9613	19:26	19:26	-1	1.133	3758	863	25	62	35		RQ
257.9584	19:27	19:26	0	1.134	4362	1257	23	57	55	0.86(0.88-1.20)	
	Empc Correction				3613	829	23	57	36		
PCB-27											
255.9613	19:40	19:40	-1	1.146	10243	2078	25	62	83		RQ
257.9584	19:37	19:40	-3	1.144	18644	3348	23	57	146	0.55(0.88-1.20)	
	Empc Correction				9849	1998	23	57	87		
PCB-24											
255.9613	19:48	19:47	1	1.155	680	394	25	62	16		RQ
257.9584	19:48	19:47	1	1.155	1211	490	23	57	21	0.56(0.88-1.20)	
	Empc Correction				653	378	23	57	16		
PCB-16											
255.9613	19:55	19:55	0	1.162	2310	702	25	62	28		RQ
257.9584	19:55	19:55	0	1.162	2810	588	23	57	26	0.82(0.88-1.20)	
	Empc Correction				2221	675	23	57	29		
PCB-32											
255.9613	20:25	20:27	-1	1.190	2941	675	25	62	27		RQM
	Empc Correction				2460	610	25	62	24		
257.9584	20:27	20:27	2	1.192	2366	587	23	57	26	1.24(0.88-1.20)	M
PCB-34											
255.9613	21:40						53	132			
257.9584	21:40						46	115			
PCB-23											
255.9613	21:48						53	132			
257.9584	21:48						46	115			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-26											RQ
255.9613	22:09	22:08	0	1.291	2990	856	53	132	16		
257.9584	22:09	22:08	0	1.291	3610	989	46	115	22	0.83(0.88-1.20)	
Empc Correction					2875	823	46	115	18		
PCB-29 (C26)											RQ
255.9613	22:09	22:08	0	1.291	2990	856	53	132	16		
257.9584	22:09	22:08	0	1.291	3610	989	46	115	22	0.83(0.88-1.20)	
Empc Correction					2875	823	46	115	18		
PCB-25											RQ
255.9613	22:22	22:22	0	0.831	1203	351	53	132	7		
257.9584	22:20	22:22	-2	0.829	1680	613	46	115	13	0.72(0.88-1.20)	
Empc Correction					1156	337	46	115	7		
PCB-31											M
255.9613	22:40	22:42	-1	0.841	5152	1355	53	132	26		
257.9584	22:42	22:42	1	0.842	5827	1243	46	115	27	0.88(0.88-1.20)	M
PCB-20											
255.9613	22:56	22:58	-3	0.851	7983	1798	53	132	34		
257.9584	22:57	22:58	-2	0.852	7425	1480	46	115	32	1.08(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:56	22:58	-3	0.851	7983	1798	53	132	34		
257.9584	22:57	22:58	-2	0.852	7425	1480	46	115	32	1.08(0.88-1.20)	
PCB-21											M
255.9613	23:08	23:13	-1	0.859	8341	1046	53	132	20		M
257.9584	23:13	23:13	4	0.862	7182	1244	46	115	27	1.16(0.88-1.20)	M
PCB-33 (C21)											M
255.9613	23:08	23:13	-1	0.859	8341	1046	53	132	20		M
257.9584	23:13	23:13	4	0.862	7182	1244	46	115	27	1.16(0.88-1.20)	M
PCB-22											RQM
255.9613	23:36	23:38	-1	0.876	2436	502	53	132	9		
257.9584	23:38	23:38	1	0.877	6955	1110	46	115	24	0.35(0.88-1.20)	M
Empc Correction					2342	482	46	115	10		
PCB-36											
255.9613	25:09						53	132			
257.9584	25:09						46	115			
PCB-39											
255.9613	25:30						53	132			
257.9584	25:30						46	115			
PCB-38											
255.9613	26:05						53	132			
257.9584	26:05						46	115			
PCB-35											RQM a
255.9613	26:33	26:33	-1	0.986	4575	791	53	132	15		M
Empc Correction					3388	760	53	132	14		
257.9584	26:34	26:33	0	0.986	3258	731	46	115	16	1.40(0.88-1.20)	a
PCB-37											M
255.9613	27:01	27:01	2	1.003	4245	655	53	132	12		M
257.9584	26:57	27:01	-2	1.000	3724	724	46	115	16	1.14(0.88-1.20)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54L											
301.9626	20:14	20:14	0	0.817	287661	74055	157	392	472		
303.9597	20:14	20:14	0	0.817	344991	85329	74	185	1153	0.83(0.65-0.89)	
PCB-52L											
301.9626	24:47	24:47	-1		758788	174177	445	1112	391		
303.9597	24:47	24:47	-1		968842	225004	214	535	1051	0.78(0.65-0.89)	
PCB-79L											
301.9626	32:40	32:40	-1	0.970	275223	54832	445	1112	123		
303.9597	32:40	32:40	-1	0.970	345251	68152	214	535	318	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:40	33:40	-1	1.359	820509	165472	445	1112	372		
303.9597	33:40	33:40	-1	1.359	1051288	214026	214	535	1000	0.78(0.65-0.89)	
PCB-77L											
301.9626	34:14	34:15	-2	1.382	897370	167157	445	1112	376		
303.9597	34:14	34:15	-2	1.382	1119288	226336	214	535	1058	0.80(0.65-0.89)	
PCB-54											
289.9224	20:16						7	17			
291.9194	20:16						24	60			
PCB-50											
289.9224	22:25						30	75			
291.9194	22:25						170	425			
PCB-53 (C50)											
289.9224	22:25						30	75			
291.9194	22:25						170	425			
PCB-45											
289.9224	23:08	23:09	-1	1.143	32169	7427	30	75	248		
291.9194	23:08	23:09	-1	1.143	39020	8729	170	425	51	0.82(0.65-0.89)	
PCB-51 (C45)											
289.9224	23:08	23:09	-1	1.143	32169	7427	30	75	248		
291.9194	23:08	23:09	-1	1.143	39020	8729	170	425	51	0.82(0.65-0.89)	
PCB-46											
289.9224	23:24						30	75			
291.9194	23:24						170	425			
PCB-52											
289.9224	24:47	24:48	-1	1.224	8376	1956	30	75	65		
291.9194	24:48	24:48	0	1.226	9481	2690	170	425	16	0.88(0.65-0.89)	
PCB-43											
289.9224	24:56						30	75			
291.9194	24:56						170	425			
PCB-73 (C43)											
289.9224	24:56						30	75			
291.9194	24:56						170	425			
PCB-49											
289.9224	25:15	25:14	1	1.248	3957	988	30	75	33		RQ
291.9194	25:16	25:14	2	1.248	6802	1616	170	425	10	0.58(0.65-0.89)	
Empc Correction					5138	1283	170	425	8		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-69 (C49)											RQ
289.9224	25:15	25:14	1	1.248	3957	988	30	75	33		
291.9194	25:16	25:14	2	1.248	6802	1616	170	425	10	0.58(0.65-0.89)	
Empc Correction					5138	1283	170	425	8		
PCB-48											
289.9224	25:34						30	75			
291.9194	25:34						170	425			
PCB-44											
289.9224	25:49	25:49	1	1.276	61552	13385	30	75	446		
291.9194	25:49	25:49	0	1.275	77105	16503	170	425	97	0.80(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:49	25:49	1	1.276	61552	13385	30	75	446		
291.9194	25:49	25:49	0	1.275	77105	16503	170	425	97	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:49	25:49	1	1.276	61552	13385	30	75	446		
291.9194	25:49	25:49	0	1.275	77105	16503	170	425	97	0.80(0.65-0.89)	
PCB-59											
289.9224	26:07						30	75			
291.9194	26:07						170	425			
PCB-62 (C59)											
289.9224	26:07						30	75			
291.9194	26:07						170	425			
PCB-75 (C59)											
289.9224	26:07						30	75			
291.9194	26:07						170	425			
PCB-42											
289.9224	26:19						30	75			
291.9194	26:19						170	425			
PCB-40											
289.9224	26:49						30	75			
291.9194	26:49						170	425			
PCB-41 (C40)											
289.9224	26:49						30	75			
291.9194	26:49						170	425			
PCB-71 (C40)											
289.9224	26:49						30	75			
291.9194	26:49						170	425			
PCB-64											RQM
289.9224	27:03	27:02	1	1.337	1708	412	30	75	14		
291.9194	27:02	27:02	-1	1.336	4786	1225	170	425	7	0.36(0.65-0.89)	M
Empc Correction					2218	535	170	425	3		
PCB-72											
289.9224	27:51						30	75			
291.9194	27:51						170	425			
PCB-68											M
289.9224	28:08	28:08	-1	0.836	14247	3781	30	75	126		
291.9194	28:08	28:08	-2	0.835	19694	4620	170	425	27	0.72(0.65-0.89)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-57											
289.9224	28:34						30	75			
291.9194	28:34						170	425			
PCB-58											
289.9224	28:48						30	75			
291.9194	28:48						170	425			
PCB-67											
289.9224	28:57						30	75			
291.9194	28:57						170	425			
PCB-63											
289.9224	29:14						30	75			
291.9194	29:14						170	425			
PCB-61											
289.9224	29:33	29:34	-2	0.877	6737	1155	30	75	39		
291.9194	29:34	29:34	-1	0.878	9366	1872	170	425	11	0.72(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:33	29:34	-2	0.877	6737	1155	30	75	39		
291.9194	29:34	29:34	-1	0.878	9366	1872	170	425	11	0.72(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:33	29:34	-2	0.877	6737	1155	30	75	39		
291.9194	29:34	29:34	-1	0.878	9366	1872	170	425	11	0.72(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:33	29:34	-2	0.877	6737	1155	30	75	39		
291.9194	29:34	29:34	-1	0.878	9366	1872	170	425	11	0.72(0.65-0.89)	
PCB-66											
289.9224	29:53						30	75			
291.9194	29:53						170	425			
PCB-55											
289.9224	30:03						30	75			
291.9194	30:03						170	425			
PCB-56											
289.9224	30:34						30	75			
291.9194	30:34						170	425			
PCB-60											
289.9224	30:46						30	75			
291.9194	30:46						170	425			
PCB-80											
289.9224	31:10						30	75			
291.9194	31:10						170	425			
PCB-79											
289.9224	32:42						30	75			
291.9194	32:42						170	425			
PCB-78											
289.9224	33:15						30	75			
291.9194	33:15						170	425			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81											
289.9224	33:42						30	75			
291.9194	33:42						170	425			
PCB-77											
289.9224	34:15						30	75			
291.9194	34:15						170	425			
PCB-104L											
337.9207	25:42	25:43	-1	0.813	746938	162158	143	357	1134		
339.9178	25:42	25:43	-1	0.813	494225	112471	45	112	2499	1.51(1.32-1.78)	
PCB-95L											
337.9207	28:41	28:40	-1	1.116	186541	40622	143	357	284		
339.9178	28:41	28:40	-1	1.116	126183	27910	45	112	620	1.48(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		729688	154261	143	357	1079		
339.9178	31:36	31:37	-1		459784	94705	45	112	2105	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:16	34:16	-1	1.085	878832	176068	143	357	1231		
339.9178	34:16	34:16	-1	1.085	564387	114261	45	112	2539	1.56(1.32-1.78)	
PCB-123L											
337.9207	36:13	36:14	-2	1.146	791531	159501	1000	2500	160		
339.9178	36:13	36:14	-2	1.146	532579	103590	772	1930	134	1.49(1.32-1.78)	
PCB-118L											
337.9207	36:33	36:33	-1	1.157	818211	162882	1000	2500	163		
339.9178	36:33	36:33	-1	1.157	543428	106569	772	1930	138	1.51(1.32-1.78)	
PCB-114L											
337.9207	37:04	37:05	-1	1.173	854179	174708	1000	2500	175		
339.9178	37:04	37:05	-1	1.173	542513	108431	772	1930	140	1.57(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	-2	1.194	814465	156800	1000	2500	157		
339.9178	37:45	37:45	-1	1.194	512171	95800	772	1930	124	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:12	39:13	-1		950338	185163	1000	2500	185		
339.9178	39:12	39:13	-1		614065	119900	772	1930	155	1.55(1.32-1.78)	
PCB-126L											
337.9207	40:49	40:49	-1	1.292	816197	154721	1000	2500	155		
339.9178	40:49	40:49	-1	1.292	536175	103111	772	1930	134	1.52(1.32-1.78)	
PCB-104											
325.8804	25:43						51	127			
327.8775	25:43						14	35			
PCB-96											
325.8804	26:06						51	127			
327.8775	26:06						14	35			
PCB-103											
325.8804	28:01						51	127			
327.8775	28:01						14	35			

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Signal	RT (min.)	Adj RT (min.)	⏱ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-94											
325.8804	28:14						51	127			
327.8775	28:14						14	35			
PCB-95											
325.8804	28:41	28:41	-2	1.116	6071	1483	51	127	29		RQ
	Empc Correction										
327.8775	28:41	28:41	-2	1.116	3685	1199	51	127	24	2.55(1.32-1.78)	
					2378	774	14	35	55		
PCB-93											
325.8804	28:53						51	127			
327.8775	28:53						14	35			
PCB-100 (C93)											
325.8804	28:53						51	127			
327.8775	28:53						14	35			
PCB-98											
325.8804	29:03						51	127			
327.8775	29:03						14	35			
PCB-102 (C98)											
325.8804	29:03						51	127			
327.8775	29:03						14	35			
PCB-88											
325.8804	29:34	29:32	0	1.151	1375	286	51	127	6		
327.8775	29:37	29:32	3	1.153	901	192	14	35	14	1.53(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:34	29:32	0	1.151	1375	286	51	127	6		
327.8775	29:37	29:32	3	1.153	901	192	14	35	14	1.53(1.32-1.78)	
PCB-84											
325.8804	29:48	29:47	-1	1.160	1753	435	51	127	9		RQ
	Empc Correction										
327.8775	29:47	29:47	-2	1.159	1263	286	51	127	6	2.15(1.32-1.78)	
					815	185	14	35	13		
PCB-89											
325.8804	30:15						51	127			
327.8775	30:15						14	35			
PCB-121											
325.8804	30:38						51	127			
327.8775	30:38						14	35			
PCB-92											
325.8804	31:01						51	127			
327.8775	31:01						14	35			
PCB-90											
325.8804	31:37	31:36	-1	1.230	7327	1673	51	127	33		RQ
	Empc Correction										
327.8775	31:38	31:36	1	1.231	4989	1506	51	127	30	2.28(1.32-1.78)	
					3219	972	14	35	69		
PCB-101 (C90)											
325.8804	31:37	31:36	-1	1.230	7327	1673	51	127	33		RQ
	Empc Correction										
327.8775	31:38	31:36	1	1.231	4989	1506	51	127	30	2.28(1.32-1.78)	
					3219	972	14	35	69		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-113 (C90)											RQ
325.8804	31:37	31:36	-1	1.230	7327	1673	51	127	33		
	Empc Correction				4989	1506	51	127	30		
327.8775	31:38	31:36	1	1.231	3219	972	14	35	69	2.28(1.32-1.78)	
PCB-83											
325.8804	32:11	32:11	-2	1.252	3580	792	51	127	16		
327.8775	32:11	32:11	-2	1.252	2084	404	14	35	29	1.72(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:11	32:11	-2	1.252	3580	792	51	127	16		
327.8775	32:11	32:11	-2	1.252	2084	404	14	35	29	1.72(1.32-1.78)	
PCB-112											
325.8804	32:18						51	127			
327.8775	32:18						14	35			
PCB-86											RQM
325.8804	32:40	32:48	-2	1.271	7666	962	51	127	19		M
	Empc Correction				4605	554	51	127	11		
327.8775	32:48	32:48	6	1.277	2971	358	14	35	26	2.58(1.32-1.78)	M
PCB-87 (C86)											RQM
325.8804	32:40	32:48	-2	1.271	7666	962	51	127	19		M
	Empc Correction				4605	554	51	127	11		
327.8775	32:48	32:48	6	1.277	2971	358	14	35	26	2.58(1.32-1.78)	M
PCB-97 (C86)											RQM
325.8804	32:40	32:48	-2	1.271	7666	962	51	127	19		M
	Empc Correction				4605	554	51	127	11		
327.8775	32:48	32:48	6	1.277	2971	358	14	35	26	2.58(1.32-1.78)	M
PCB-109 (C86)											RQM
325.8804	32:40	32:48	-2	1.271	7666	962	51	127	19		M
	Empc Correction				4605	554	51	127	11		
327.8775	32:48	32:48	6	1.277	2971	358	14	35	26	2.58(1.32-1.78)	M
PCB-119 (C86)											RQM
325.8804	32:40	32:48	-2	1.271	7666	962	51	127	19		M
	Empc Correction				4605	554	51	127	11		
327.8775	32:48	32:48	6	1.277	2971	358	14	35	26	2.58(1.32-1.78)	M
PCB-125 (C86)											RQM
325.8804	32:40	32:48	-2	1.271	7666	962	51	127	19		M
	Empc Correction				4605	554	51	127	11		
327.8775	32:48	32:48	6	1.277	2971	358	14	35	26	2.58(1.32-1.78)	M
PCB-85											RQ
325.8804	33:22	33:24	-4	1.298	1489	366	51	127	7		
	Empc Correction				1038	282	51	127	6		
327.8775	33:25	33:24	-1	1.300	670	182	14	35	13	2.22(1.32-1.78)	
PCB-116 (C85)											RQ
325.8804	33:22	33:24	-4	1.298	1489	366	51	127	7		
	Empc Correction				1038	282	51	127	6		
327.8775	33:25	33:24	-1	1.300	670	182	14	35	13	2.22(1.32-1.78)	
PCB-117 (C85)											RQ
325.8804	33:22	33:24	-4	1.298	1489	366	51	127	7		
	Empc Correction				1038	282	51	127	6		
327.8775	33:25	33:24	-1	1.300	670	182	14	35	13	2.22(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-110											RQ
325.8804	33:36	33:36	-2	1.307	6546	1463	51	127	29		
327.8775	33:36	33:36	-2	1.307	5054	1138	14	35	81	1.30(1.32-1.78)	
Empc Correction					4223	943	14	35	67		
PCB-115 (C110)											RQ
325.8804	33:36	33:36	-2	1.307	6546	1463	51	127	29		
327.8775	33:36	33:36	-2	1.307	5054	1138	14	35	81	1.30(1.32-1.78)	
Empc Correction					4223	943	14	35	67		
PCB-82											RQ
325.8804	33:55	33:54	-2	1.320	1689	561	51	127	11		
Empc Correction					322	119	51	127	2		
327.8775	34:00	33:54	4	1.323	208	77	14	35	6	8.12(1.32-1.78)	
PCB-111											
325.8804	34:17						51	127			
327.8775	34:17						14	35			
PCB-120											RQM
325.8804	34:46	34:46	0	1.353	774	306	51	127	6		M
327.8775	34:48	34:46	1	1.354	595	178	14	35	13	1.30(1.32-1.78)	
Empc Correction					499	197	14	35	14		
PCB-108											
325.8804	35:53						210	525			
327.8775	35:53						118	295			
PCB-124 (C108)											
325.8804	35:53						210	525			
327.8775	35:53						118	295			
PCB-107											
325.8804	36:07						210	525			
327.8775	36:07						118	295			
PCB-123											
325.8804	36:14						210	525			
327.8775	36:14						118	295			
PCB-106											
325.8804	36:21						210	525			
327.8775	36:21						118	295			
PCB-118											
325.8804	36:34						210	525			
327.8775	36:34						118	295			
PCB-122											
325.8804	36:56						210	525			
327.8775	36:56						118	295			
PCB-114											
325.8804	37:06						210	525			
327.8775	37:06						118	295			
PCB-105											
325.8804	37:45						210	525			
327.8775	37:45						118	295			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-127											
325.8804	39:12						210	525			
327.8775	39:12						118	295			
PCB-126											
325.8804	40:51						210	525			
327.8775	40:51						118	295			
PCB-155L											
371.8817	31:21	31:21	-2	0.790	628737	129575	131	327	989		
373.8788	31:21	31:21	-2	0.790	492323	107301	74	185	1450	1.28(1.05-1.43)	
PCB-153L											
371.8817	38:25	38:24	-1	0.901	262698	50977	217	542	235		
373.8788	38:26	38:24	0	0.901	195308	39128	231	577	169	1.35(1.05-1.43)	
PCB-138L											
371.8817	39:40	39:42	-2		852129	165625	217	542	763		
373.8788	39:40	39:42	-2		673086	127621	231	577	552	1.27(1.05-1.43)	
PCB-167L											
371.8817	42:39	42:39	-2	1.076	967326	186977	217	542	862		
373.8788	42:39	42:39	-2	1.076	737531	144023	231	577	623	1.31(1.05-1.43)	
PCB-156L											
371.8817	43:49	43:49	-2	1.105	1898242	242736	217	542	1119		
373.8788	43:49	43:49	-2	1.105	1469859	191126	231	577	827	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:49	43:49	-2	1.105	1898242	242736	217	542	1119		
373.8788	43:49	43:49	-2	1.105	1469859	191126	231	577	827	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:03	47:01	-1	1.186	930238	176886	217	542	815		
373.8788	47:03	47:01	-1	1.186	752129	147707	231	577	639	1.24(1.05-1.43)	
PCB-155											
359.8415	31:22						8	20			
361.8385	31:22						6	15			
PCB-152											
359.8415	31:35						8	20			
361.8385	31:35						6	15			
PCB-150											
359.8415	31:44						8	20			
361.8385	31:44						6	15			
PCB-136											
359.8415	32:07						8	20			
361.8385	32:07						6	15			
PCB-145											
359.8415	32:24						8	20			
361.8385	32:24						6	15			
PCB-148											
359.8415	33:54						8	20			
361.8385	33:54						6	15			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-135											RQ
359.8415	34:32	34:30	0	1.102	214	96	8	20	12		
361.8385	34:32	34:30	1	1.102	209	61	6	15	10	1.02(1.05-1.43)	
Empc Correction					172	77	6	15	13		
PCB-151 (C135)											RQ
359.8415	34:32	34:30	0	1.102	214	96	8	20	12		
361.8385	34:32	34:30	1	1.102	209	61	6	15	10	1.02(1.05-1.43)	
Empc Correction					172	77	6	15	13		
PCB-154											
359.8415	34:45						8	20			
361.8385	34:45						6	15			
PCB-144											
359.8415	35:04						8	20			
361.8385	35:04						6	15			
PCB-147											
359.8415	35:26						74	185			
361.8385	35:26						1	2			
PCB-149 (C147)											
359.8415	35:26						74	185			
361.8385	35:26						1	2			
PCB-134											
359.8415	35:44						74	185			
361.8385	35:44						1	2			
PCB-143 (C134)											
359.8415	35:44						74	185			
361.8385	35:44						1	2			
PCB-139											
359.8415	36:01						74	185			
361.8385	36:01						1	2			
PCB-140 (C139)											
359.8415	36:01						74	185			
361.8385	36:01						1	2			
PCB-131											
359.8415	36:14						74	185			
361.8385	36:14						1	2			
PCB-142											
359.8415	36:22						74	185			
361.8385	36:22						1	2			
PCB-132											
359.8415	36:42						74	185			
361.8385	36:42						1	2			
PCB-133											
359.8415	37:11						74	185			
361.8385	37:11						1	2			
PCB-165											
359.8415	37:35						74	185			
361.8385	37:35						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-146											
359.8415	37:50						74	185			
361.8385	37:50						1	2			
PCB-161											
359.8415	37:57						74	185			
361.8385	37:57						1	2			
PCB-153											
359.8415	38:27						74	185			
361.8385	38:27						1	2			
PCB-168 (C153)											
359.8415	38:27						74	185			
361.8385	38:27						1	2			
PCB-141											
359.8415	38:38						74	185			
361.8385	38:38						1	2			
PCB-130											
359.8415	39:03						74	185			
361.8385	39:03						1	2			
PCB-137											
359.8415	39:15						74	185			
361.8385	39:15						1	2			
PCB-164											
359.8415	39:23						74	185			
361.8385	39:23						1	2			
PCB-129											
359.8415	39:43	39:42	0	0.931	5548	1053	74	185	14		RQM
	Empc Correction				4545	1181	74	185	16		
361.8385	39:42	39:42	-1	0.931	3666	953	1	2	953	1.51(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:43	39:42	0	0.931	5548	1053	74	185	14		RQM
	Empc Correction				4545	1181	74	185	16		
361.8385	39:42	39:42	-1	0.931	3666	953	1	2	953	1.51(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:43	39:42	0	0.931	5548	1053	74	185	14		RQM
	Empc Correction				4545	1181	74	185	16		
361.8385	39:42	39:42	-1	0.931	3666	953	1	2	953	1.51(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:43	39:42	0	0.931	5548	1053	74	185	14		RQM
	Empc Correction				4545	1181	74	185	16		
361.8385	39:42	39:42	-1	0.931	3666	953	1	2	953	1.51(1.05-1.43)	M
PCB-158											
359.8415	40:04						74	185			
361.8385	40:04						1	2			
PCB-128											
359.8415	40:55						74	185			
361.8385	40:55						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-166 (C128)											
359.8415	40:55						74	185			
361.8385	40:55						1	2			
PCB-159											
359.8415	41:55						74	185			
361.8385	41:55						1	2			
PCB-162											
359.8415	42:13						74	185			
361.8385	42:13						1	2			
PCB-167											
359.8415	42:40						74	185			
361.8385	42:40						1	2			
PCB-156											
359.8415	43:50						74	185			
361.8385	43:50						1	2			
PCB-157 (C156)											
359.8415	43:50						74	185			
361.8385	43:50						1	2			
PCB-169											
359.8415	47:04						74	185			
361.8385	47:04						1	2			
PCB-188L											
405.8428	37:04	37:04	-1	0.820	742067	146635	92	230	1594		
407.8398	37:04	37:04	-1	0.820	694606	138986	29	72	4793	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:07	40:07	-1	0.888	579881	115034	92	230	1250		
407.8398	40:07	40:07	-1	0.888	553474	110644	29	72	3815	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:12	45:14	-1		648395	124247	92	230	1351		
407.8398	45:12	45:14	-1		604215	114029	29	72	3932	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:28	46:28	-1	1.028	477638	87461	92	230	951		
407.8398	46:27	46:28	-2	1.028	460774	86237	29	72	2974	1.04(0.89-1.21)	
PCB-189L											
405.8428	49:34	49:34	-1	1.096	637735	124939	775	1937	161		
407.8398	49:34	49:34	-1	1.096	621841	117699	949	2372	124	1.03(0.89-1.21)	
PCB-188											
393.8025	37:06						20	50			
395.7995	37:06						30	75			
PCB-179											
393.8025	37:26						20	50			
395.7995	37:26						30	75			
PCB-184											
393.8025	37:57						20	50			
395.7995	37:57						30	75			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-176											
393.8025	38:19						20	50			
395.7995	38:19						30	75			
PCB-186											
393.8025	38:47						20	50			
395.7995	38:47						30	75			
PCB-178											
393.8025	40:09						20	50			
395.7995	40:09						30	75			
PCB-175											
393.8025	40:46	40:46	-2	1.100	406	213	20	50	11		
395.7995	40:42	40:46	-6	1.098	392	116	30	75	4	1.04(0.89-1.21)	
PCB-187											
393.8025	41:04	41:02	0	1.108	1372	406	20	50	20		RQM
395.7995	41:02	41:02	-2	1.107	1554	489	30	75	16	0.88(0.89-1.21)	M
Empc Correction					1306	386	30	75	13		
PCB-182											
393.8025	41:15						20	50			
395.7995	41:15						30	75			
PCB-183											
393.8025	41:39						20	50			
395.7995	41:39						30	75			
PCB-185 (C183)											
393.8025	41:39						20	50			
395.7995	41:39						30	75			
PCB-174											
393.8025	41:54						20	50			
395.7995	41:54						30	75			
PCB-177											
393.8025	42:20						20	50			
395.7995	42:20						30	75			
PCB-181											
393.8025	42:43						20	50			
395.7995	42:43						30	75			
PCB-171											
393.8025	42:54	42:54	-4	1.157	1245	264	20	50	13		RQM
395.7995	42:54	42:54	-4	1.157	1507	303	30	75	10	0.83(0.89-1.21)	M
Empc Correction					1185	251	30	75	8		
PCB-173 (C171)											
393.8025	42:54	42:54	-4	1.157	1245	264	20	50	13		RQM
395.7995	42:54	42:54	-4	1.157	1507	303	30	75	10	0.83(0.89-1.21)	M
Empc Correction					1185	251	30	75	8		
PCB-172											
393.8025	44:34						20	50			
395.7995	44:34						30	75			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-192											
393.8025	44:51						20	50			
395.7995	44:51						30	75			
PCB-180											
393.8025	45:13	45:12	0	0.912	1904	668	20	50	33		RQ
	Empc Correction				908	220	20	50	11		
395.7995	45:13	45:12	0	0.912	865	210	30	75	7	2.20(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:13	45:12	0	0.912	1904	668	20	50	33		RQ
	Empc Correction				908	220	20	50	11		
395.7995	45:13	45:12	0	0.912	865	210	30	75	7	2.20(0.89-1.21)	
PCB-191											
393.8025	45:35						20	50			
395.7995	45:35						30	75			
PCB-170											
393.8025	46:30						20	50			
395.7995	46:30						30	75			
PCB-190											
393.8025	47:04	47:04	3	0.950	1061	327	20	50	16		RQM
395.7995	47:01	47:04	-1	0.949	1199	354	30	75	12	0.88(0.89-1.21)	M
	Empc Correction				1010	311	30	75	10		
PCB-189											
393.8025	49:35						71	177			
395.7995	49:35						22	55			
PCB-202L											
439.8038	42:26	42:25	-1	0.821	502051	98879	109	272	907		
441.8008	42:26	42:25	-1	0.821	533654	105720	70	175	1510	0.94(0.76-1.02)	
PCB-194L											
439.8038	51:40	51:42	-2		675264	129139	162	405	797		
441.8008	51:40	51:42	-2		758137	141959	986	2465	144	0.89(0.76-1.02)	
PCB-205L											
439.8038	52:08	52:08	-2	1.009	712262	137605	162	405	849		
441.8008	52:08	52:08	-2	1.009	794005	154237	986	2465	156	0.90(0.76-1.02)	
PCB-202											
427.7635	42:28						19	47			
429.7606	42:28						4	10			
PCB-201											
427.7635	43:24	43:23	0	1.023	488	123	19	47	6		RQ
	Empc Correction				102	55	19	47	3		
429.7606	43:27	43:23	3	1.024	115	62	4	10	16	4.24(0.76-1.02)	
PCB-204											
427.7635	44:00	44:02	-4	1.037	754	314	19	47	17		RQ
	Empc Correction				448	132	19	47	7		
429.7606	43:59	44:02	-4	1.037	504	149	4	10	37	1.50(0.76-1.02)	
PCB-197											
427.7635	44:16						19	47			
429.7606	44:16						4	10			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:23						19	47			
429.7606	44:23						4	10			
PCB-198											
427.7635	47:15	47:10	5	1.114	1185	290	19	47	15		RQM
	Empc Correction				457	141	19	47	7		M
429.7606	47:10	47:10	0	1.112	514	159	4	10	40	2.31(0.76-1.02)	M
PCB-199 (C198)											
427.7635	47:15	47:10	5	1.114	1185	290	19	47	15		RQM
	Empc Correction				457	141	19	47	7		M
429.7606	47:10	47:10	0	1.112	514	159	4	10	40	2.31(0.76-1.02)	M
PCB-196											
427.7635	47:49						19	47			
429.7606	47:49						4	10			
PCB-203											
427.7635	48:01						19	47			
429.7606	48:01						4	10			
PCB-195											
427.7635	49:21						80	200			
429.7606	49:21						58	145			
PCB-194											
427.7635	51:41						80	200			
429.7606	51:41						58	145			
PCB-205											
427.7635	52:09						80	200			
429.7606	52:09						58	145			
PCB-208L											
473.7648	49:05	49:05	-2	0.950	646567	117846	879	2197	134		
475.7619	49:05	49:05	-1	0.950	848942	159282	224	560	711	0.76(0.65-0.89)	
PCB-206L											
473.7648	53:53	53:52	-1	1.043	456142	90304	879	2197	103		
475.7619	53:53	53:52	-1	1.043	567682	109048	224	560	487	0.80(0.65-0.89)	
PCB-208											
461.7246	49:06						75	187			
463.7216	49:06						729	1822			
PCB-207											
461.7246	50:01						75	187			
463.7216	50:01						729	1822			
PCB-206											
461.7246	53:55						75	187			
463.7216	53:55						729	1822			
PCB-209L											
507.7258	55:31	55:30	-1	1.075	449556	76959	103	257	747		
509.7229	55:31	55:30	-1	1.075	626629	108988	221	552	493	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:34	55:33	0	1.001	787	191	29	72	7		RQ
	Empc Correction				84	31	29	72	1		
497.6826	55:35	55:33	2	1.001	123	45	9	22	5	6.40(0.59-0.79)	

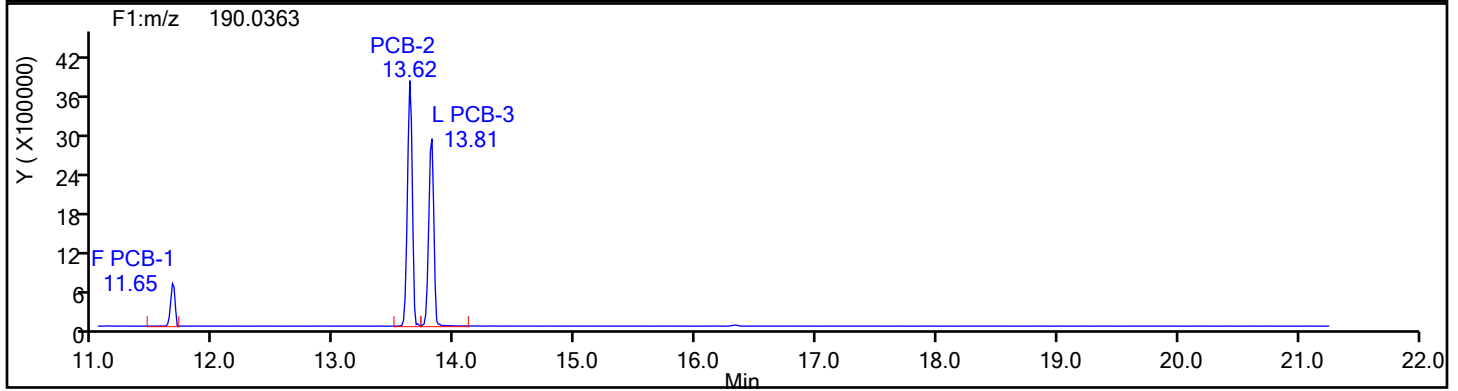
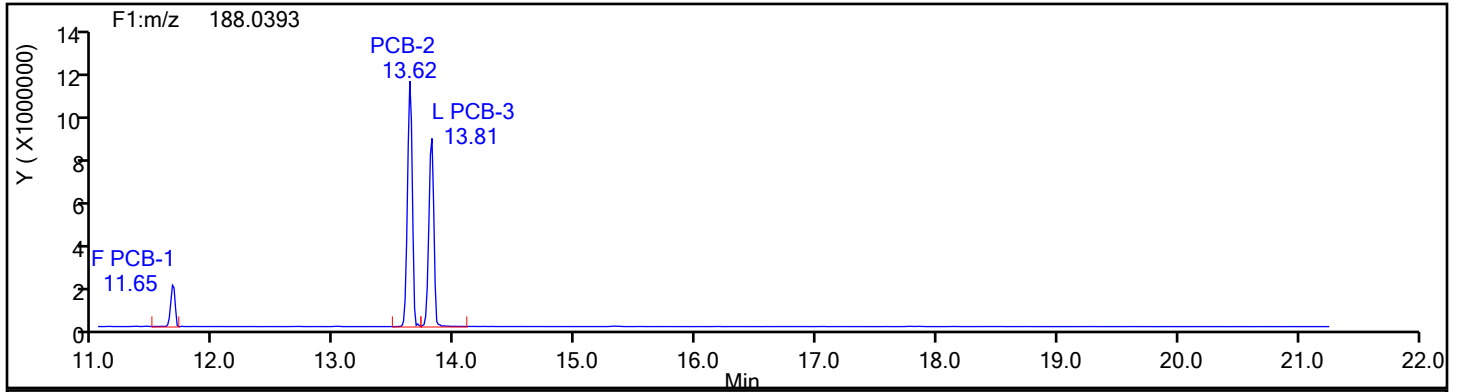
## Processing Flags

Q - EMPC-Estimated Max. Possible Conc.

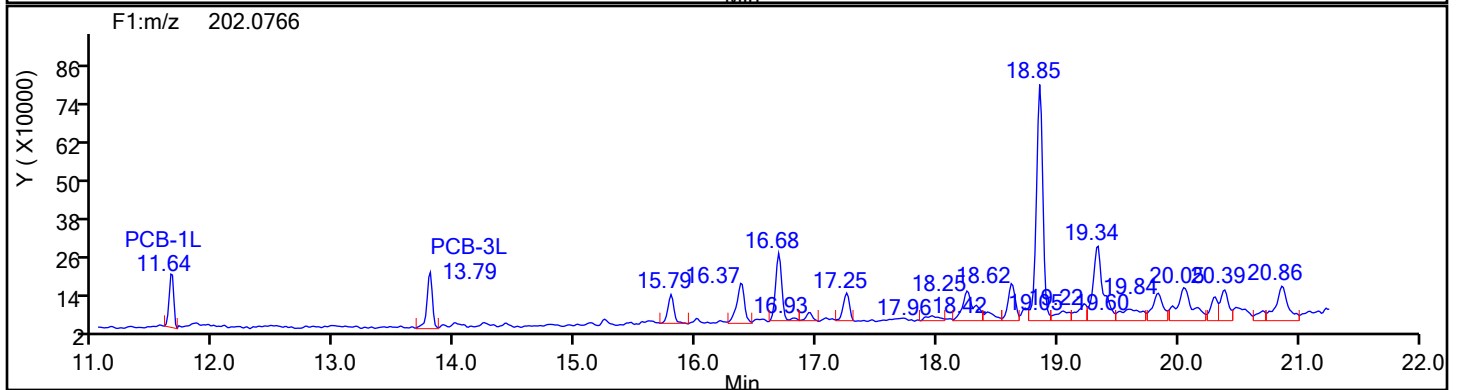
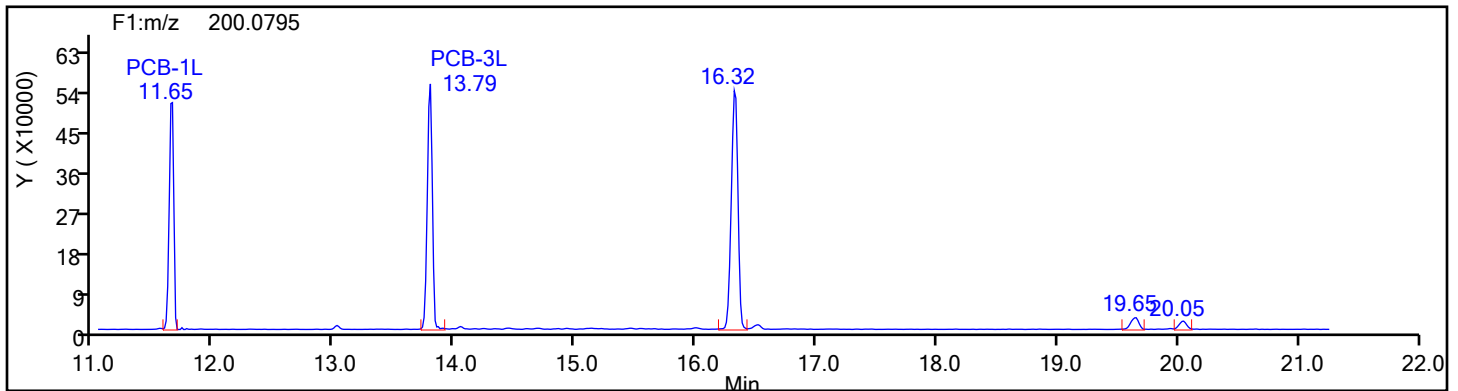
a - User Assigned ID

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-5-c5x.d  
Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1



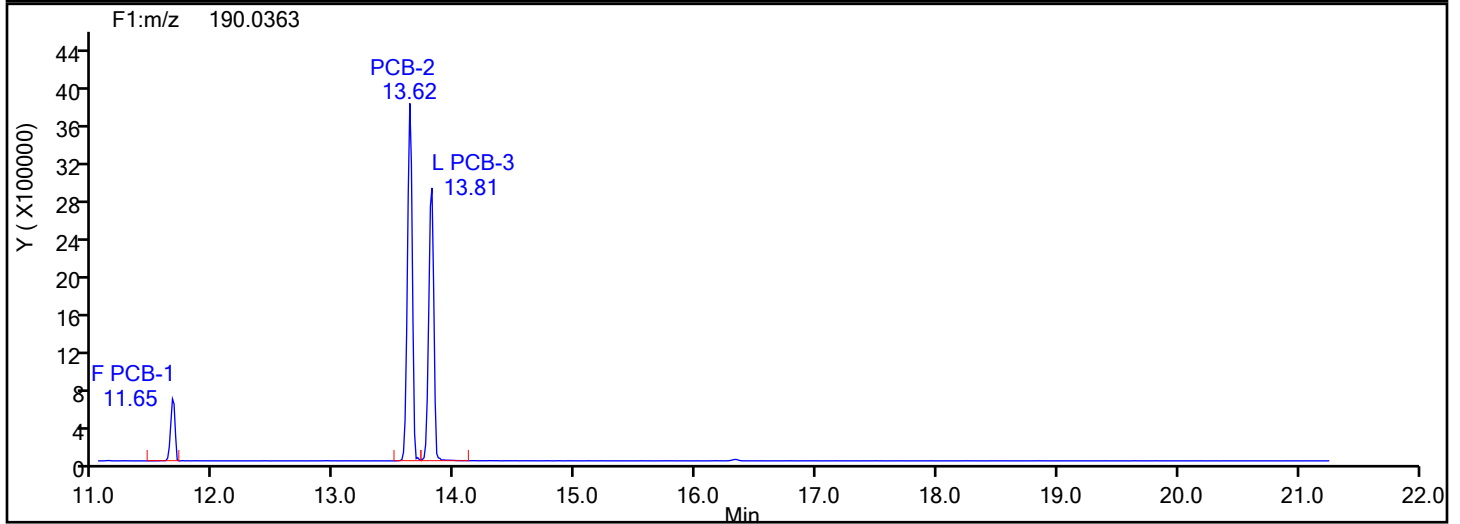
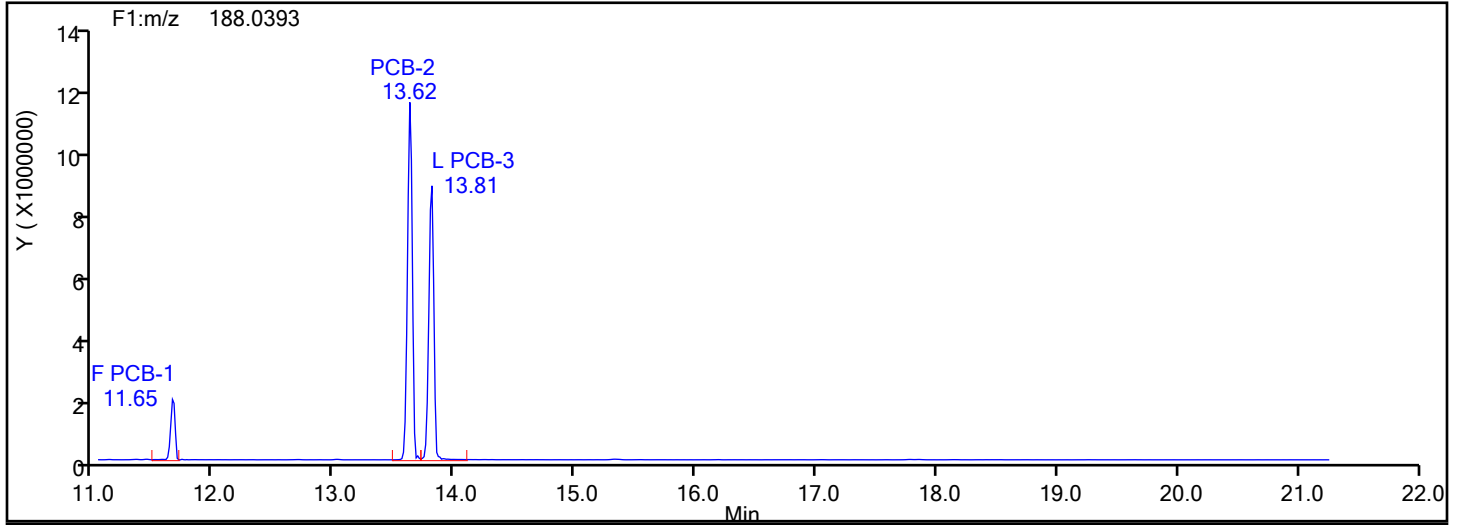
## MoPCB F1 Standards



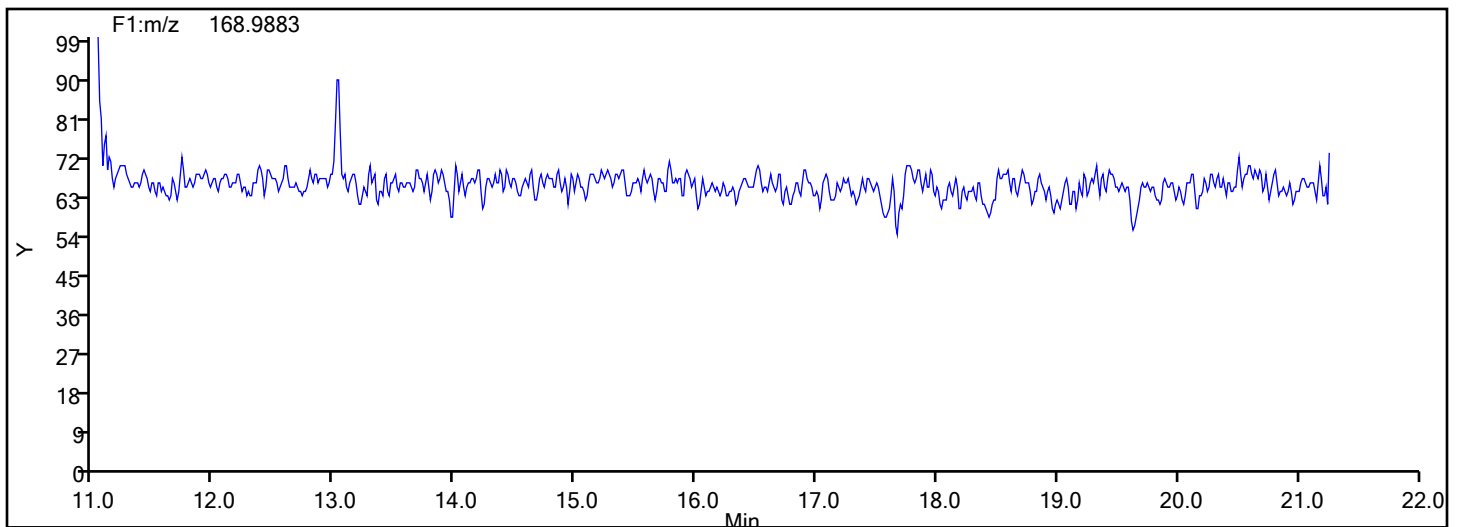


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

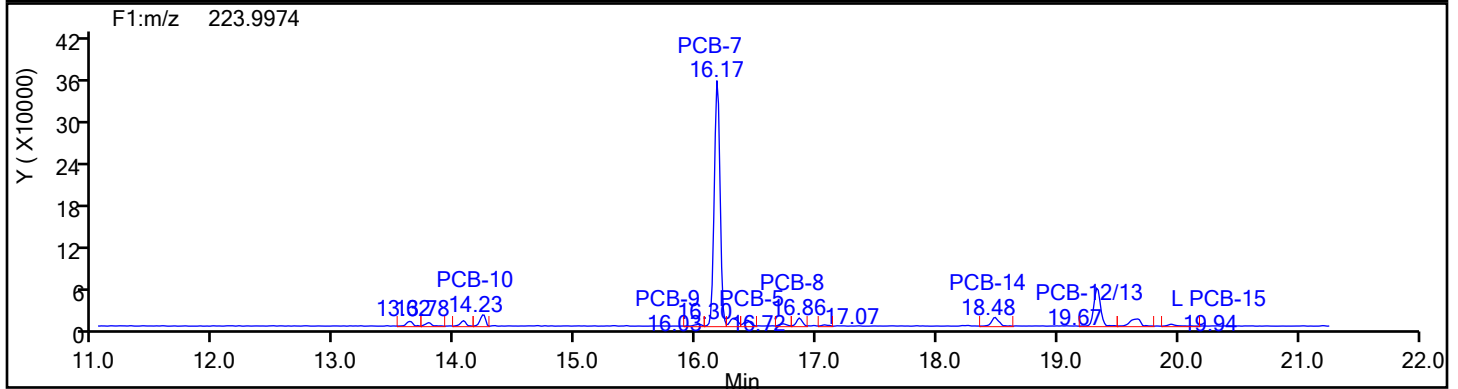
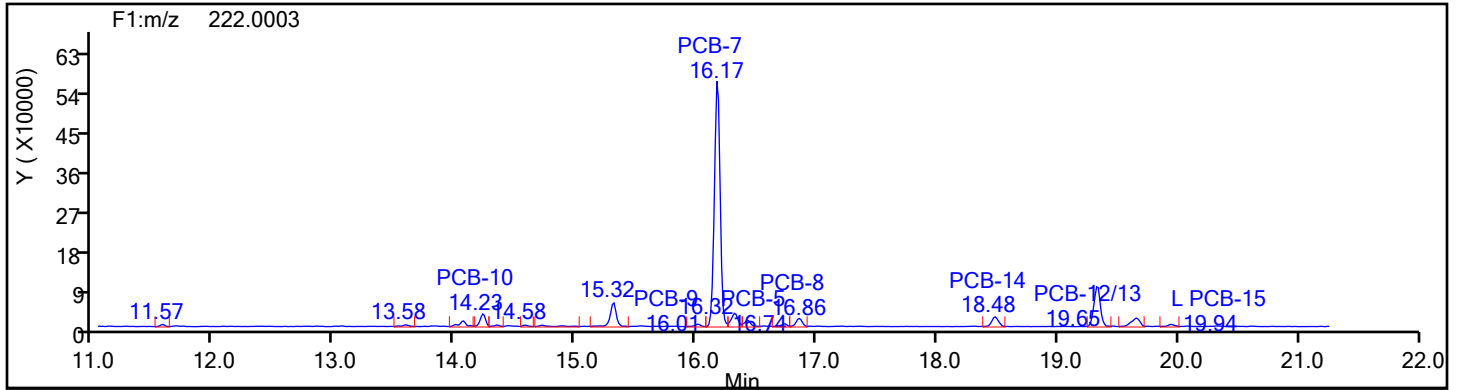


## MoPCB F1 Lock Mass

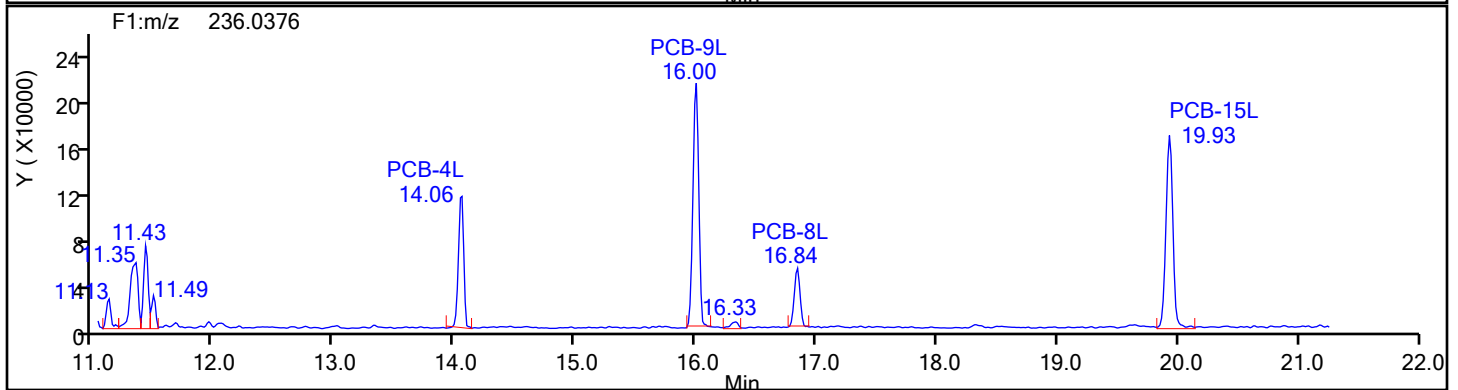
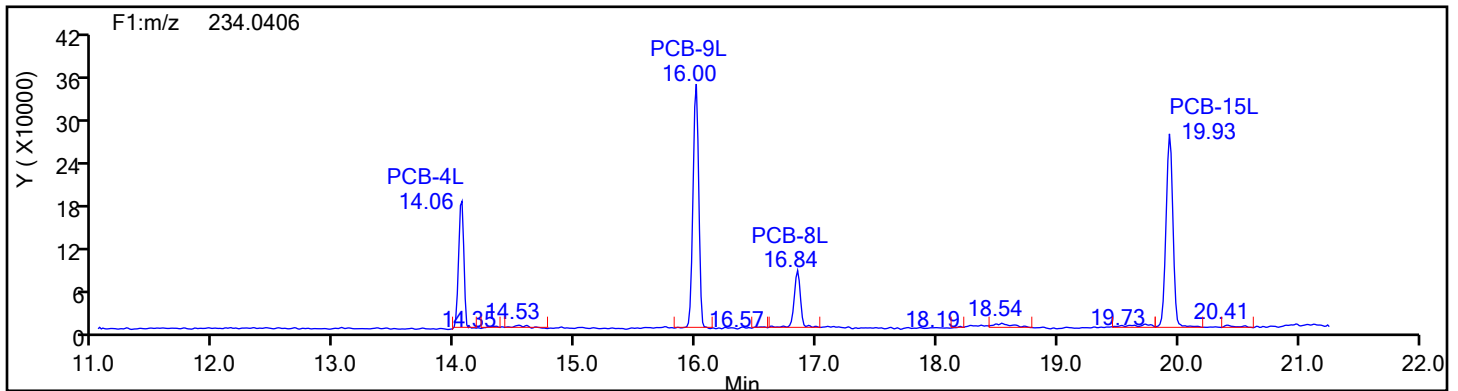


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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1

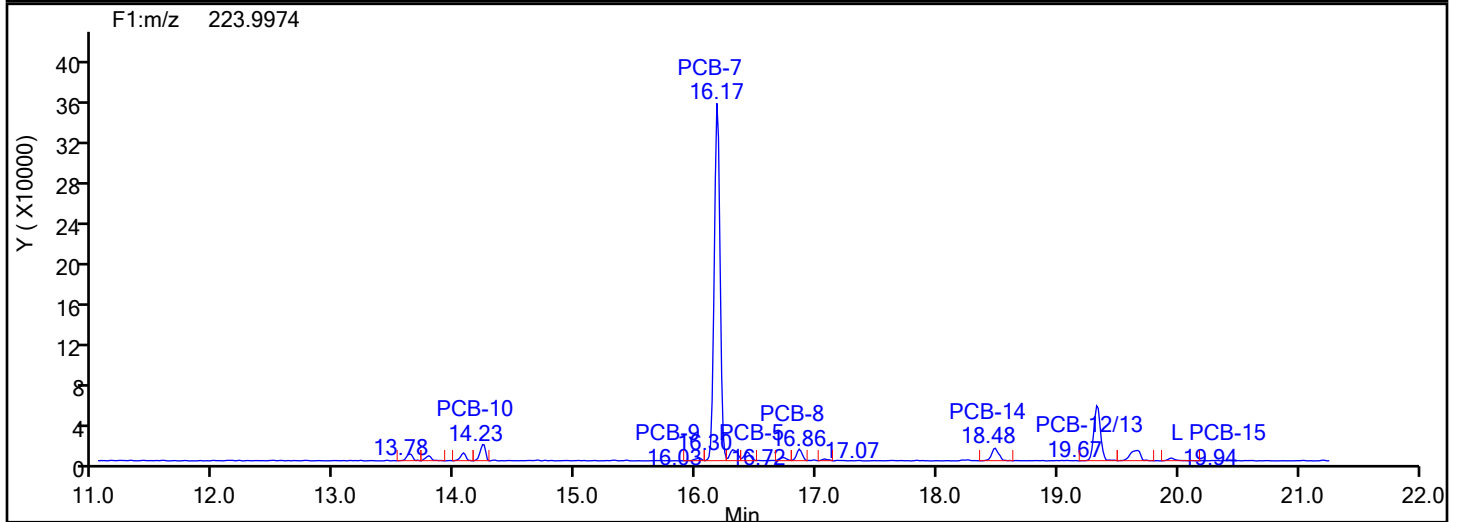
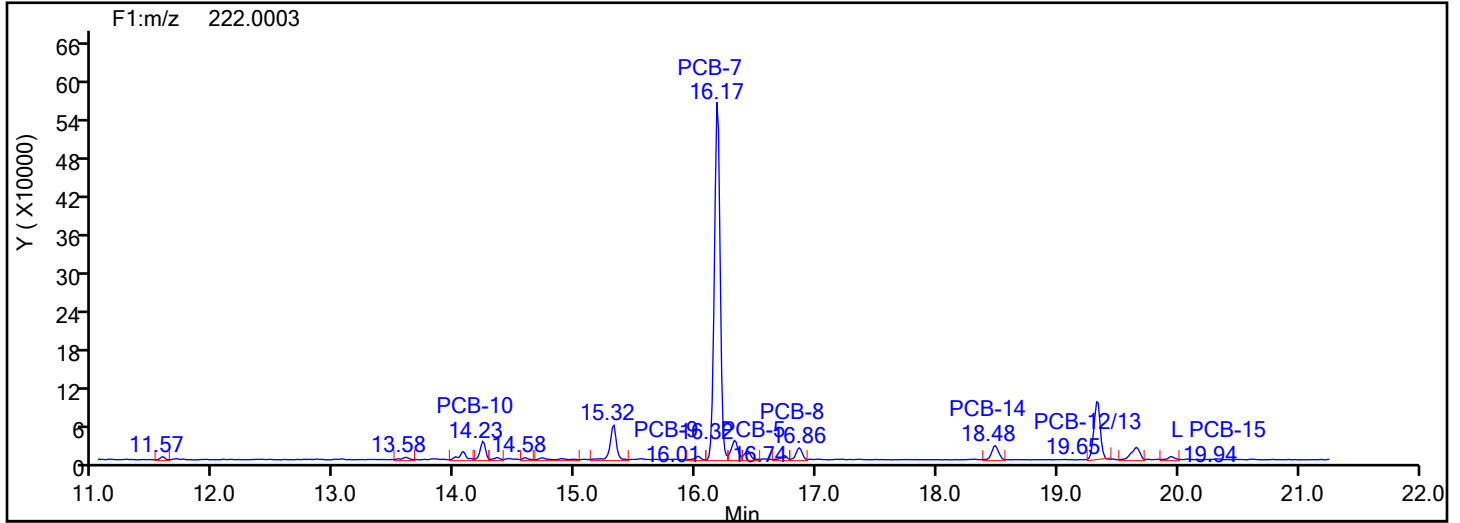


## DiPCB F1 Standards

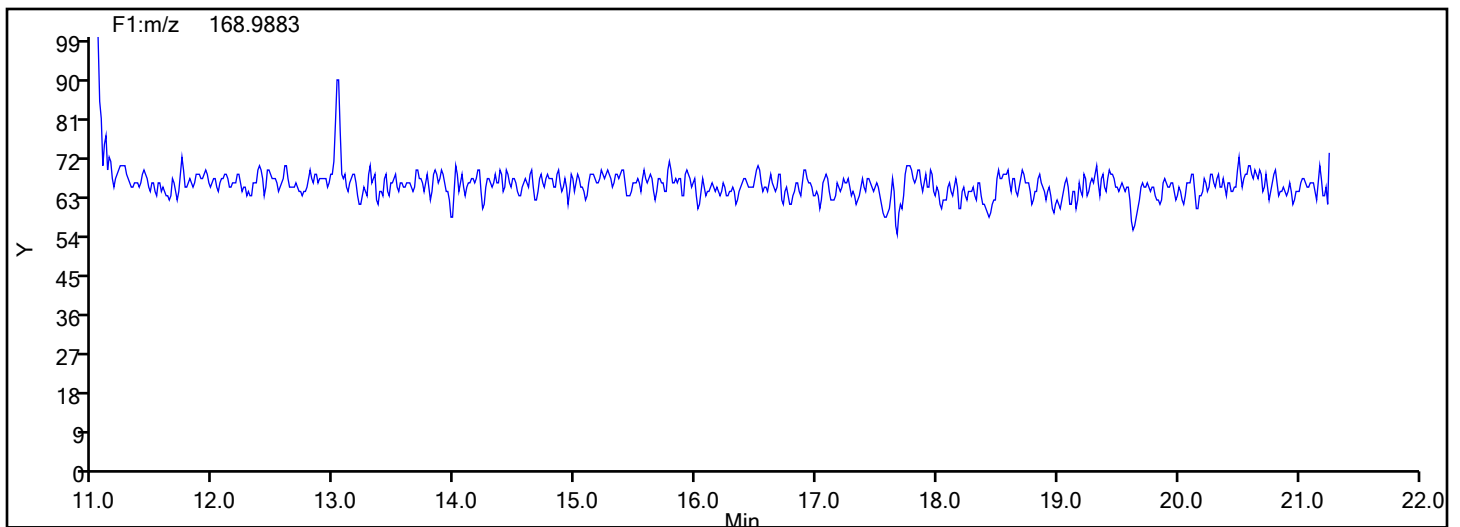


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1

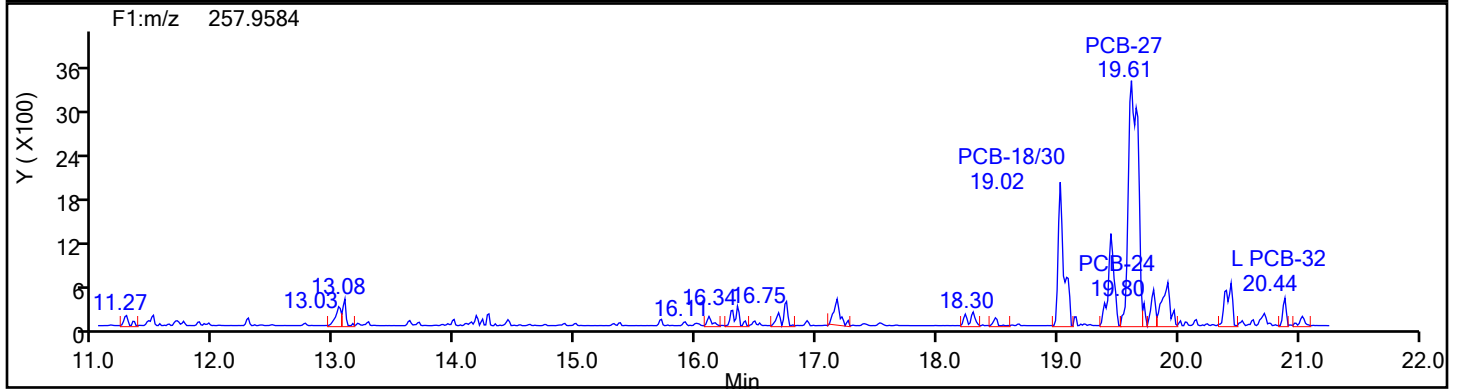
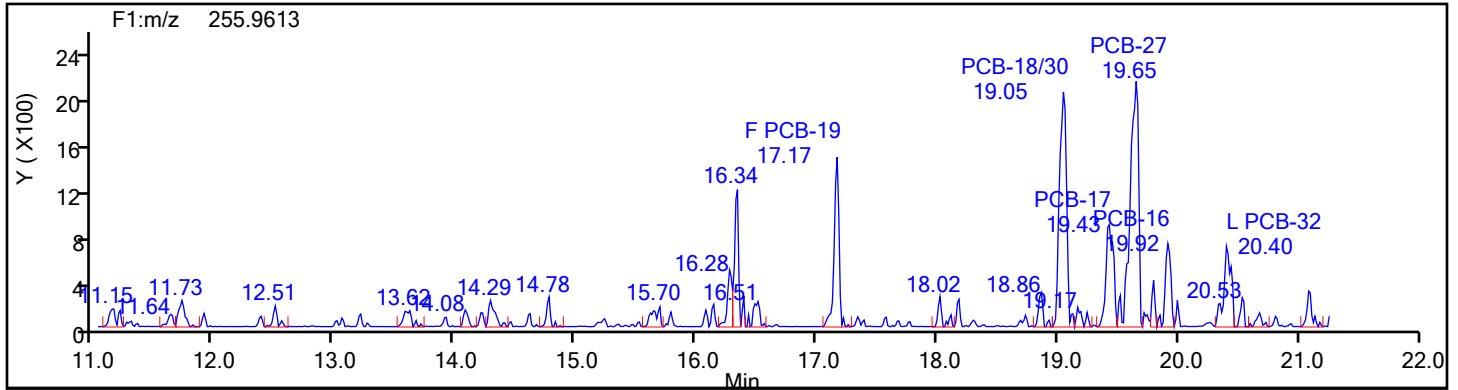


## DiPCB F1 Lock Mass

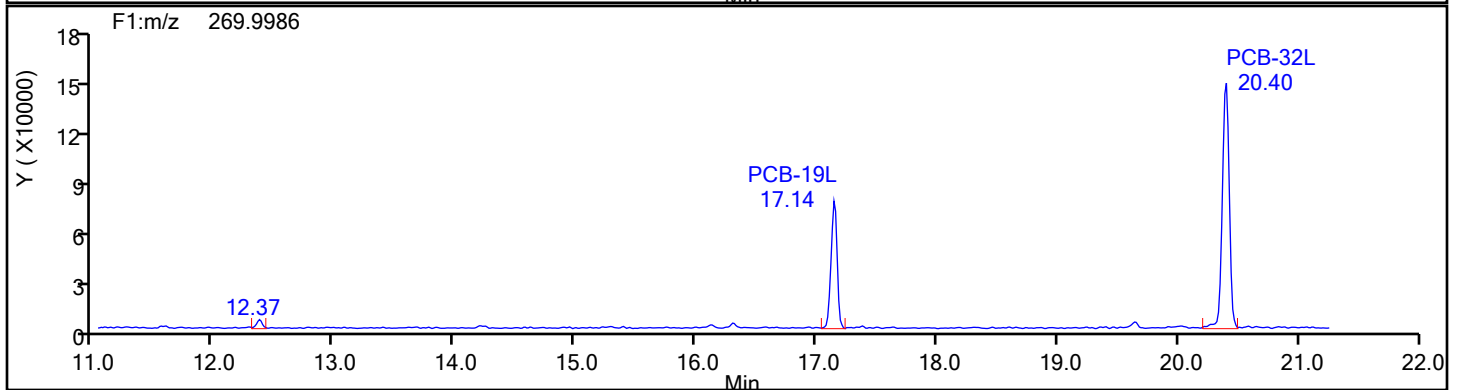
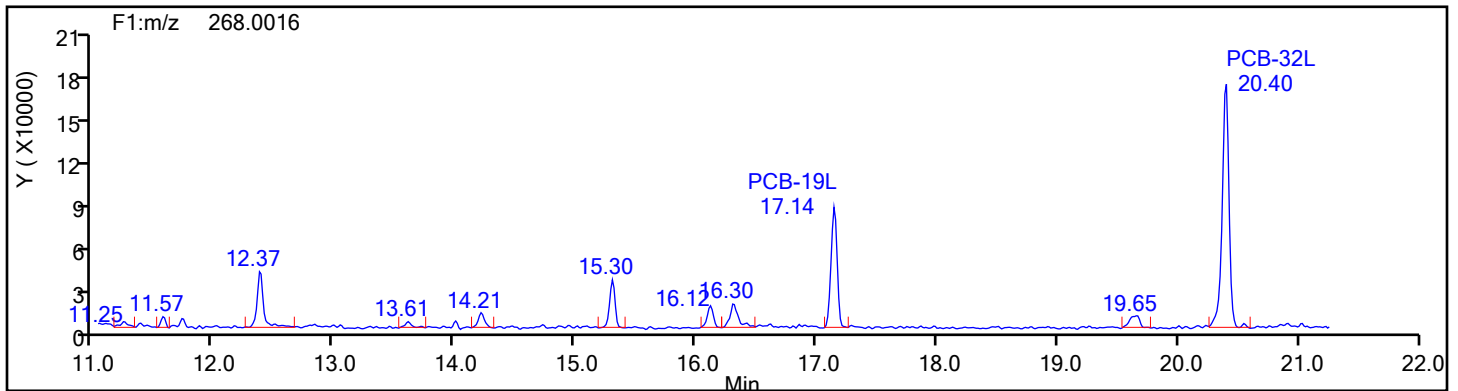


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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1

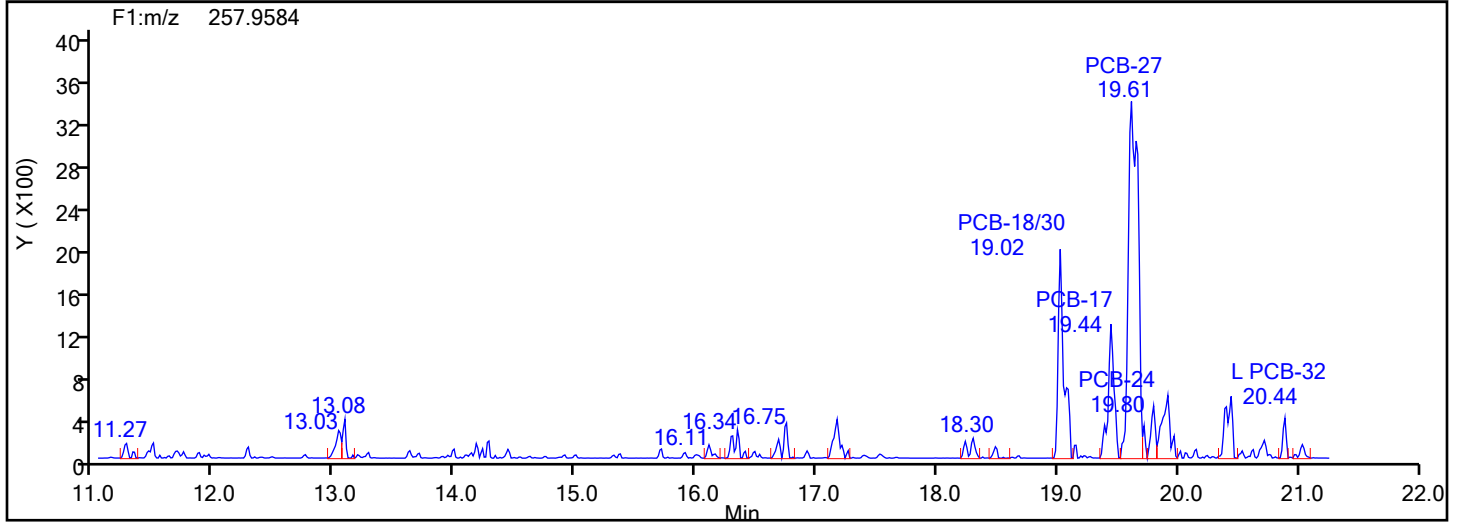
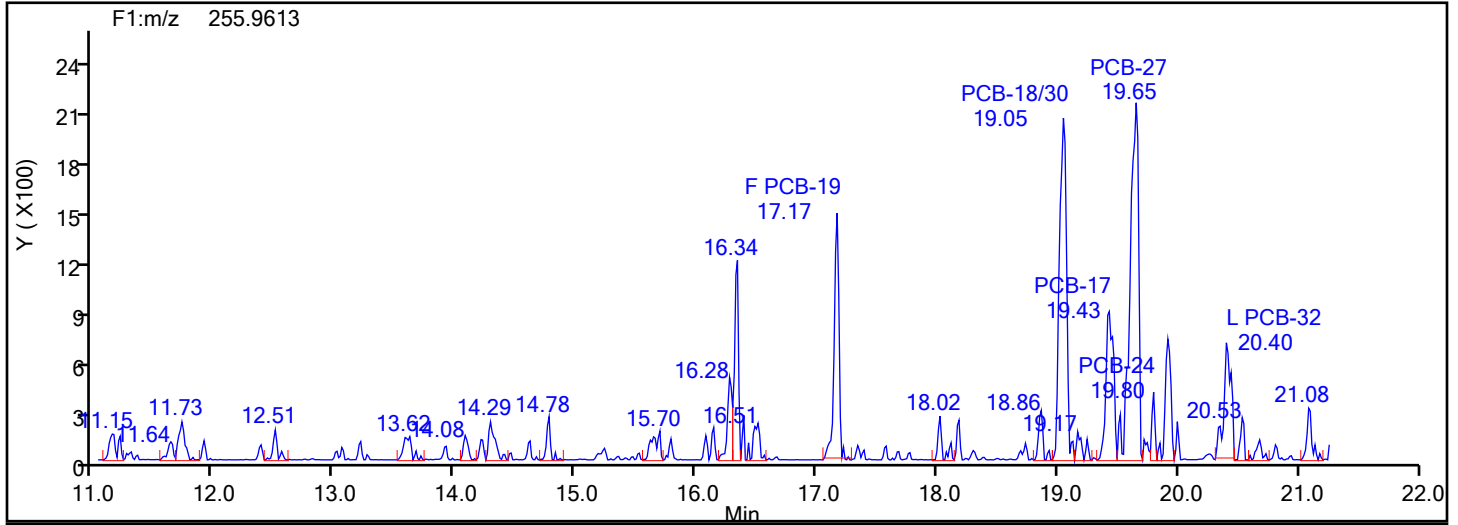


## TriPCB F1 Standards

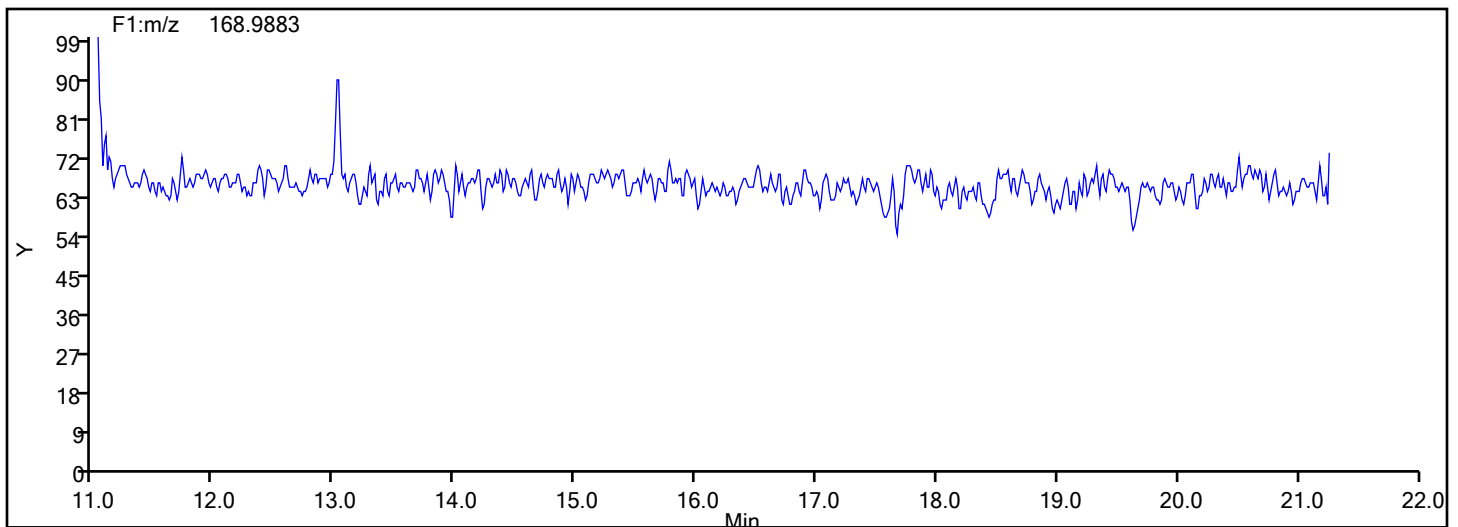


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1\IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-5-c5x.d				
Injection Date:	28-Jun-2024 15:51:00	Instrument ID:	D2D		
Lims ID:	140-36940-A-5-C	Lab Sample ID:	140-36940-5		
Client ID:	M23 - EPN 4-1\IN-701-RUN 5-COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl ( 0.25 mm)	Detector	F1(11.07 :21.70 )		

Signal: 1

Not Detected  
Expected RT: 18.98

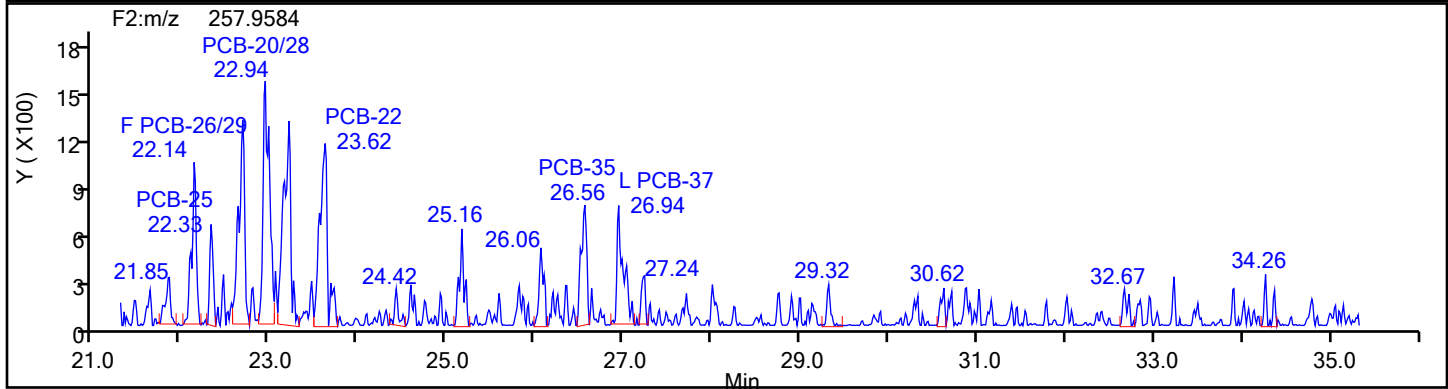
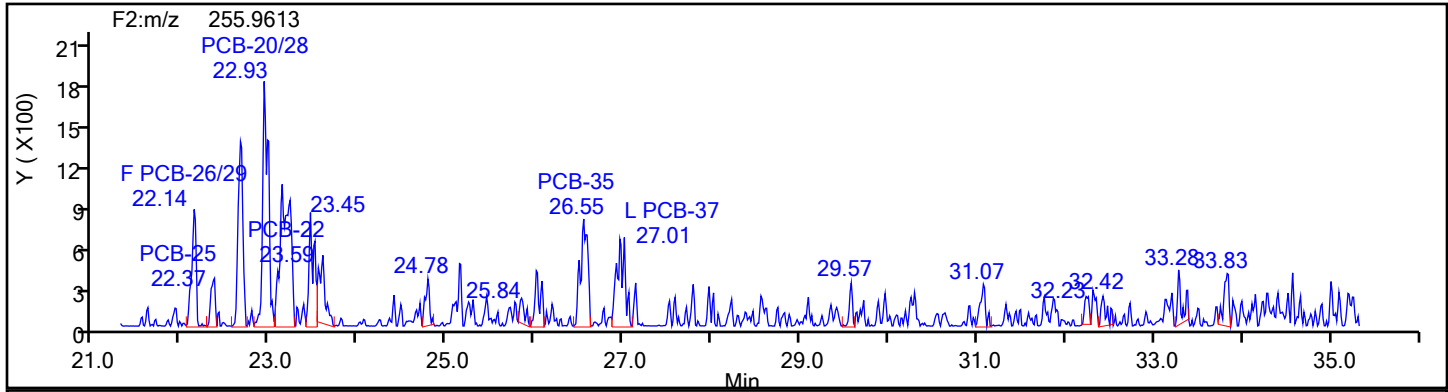
Chromatogram showing a major peak at 19.0613 minutes. The y-axis is labeled 'Y (X100)' and ranges from 0 to 20. The x-axis is labeled 'Min' and ranges from 18.6 to 19.4. The peak is labeled 'F1:m/z 255.9613'.

RT: 19.05  
Area: 8187  
Amount: 0.300329  
Amount Units: pg/ul

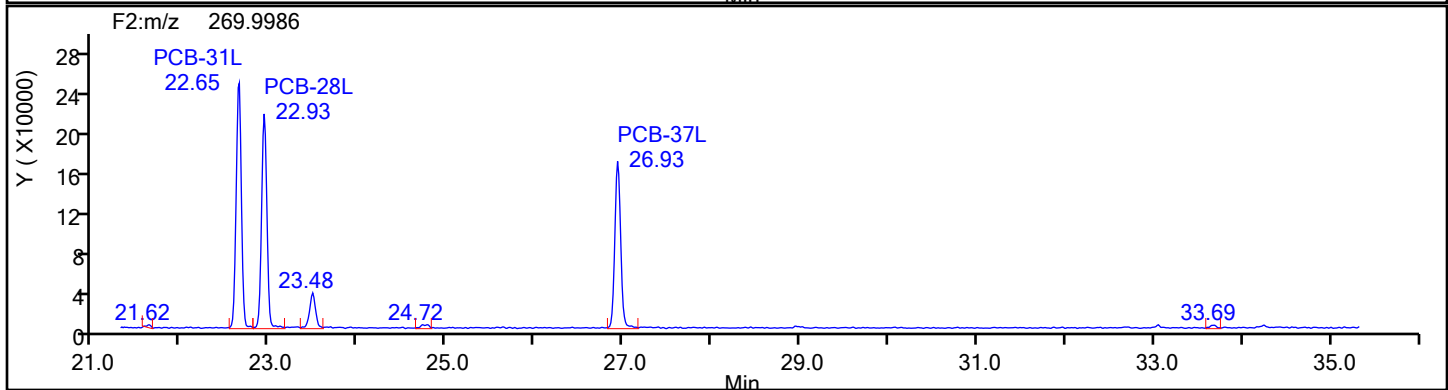
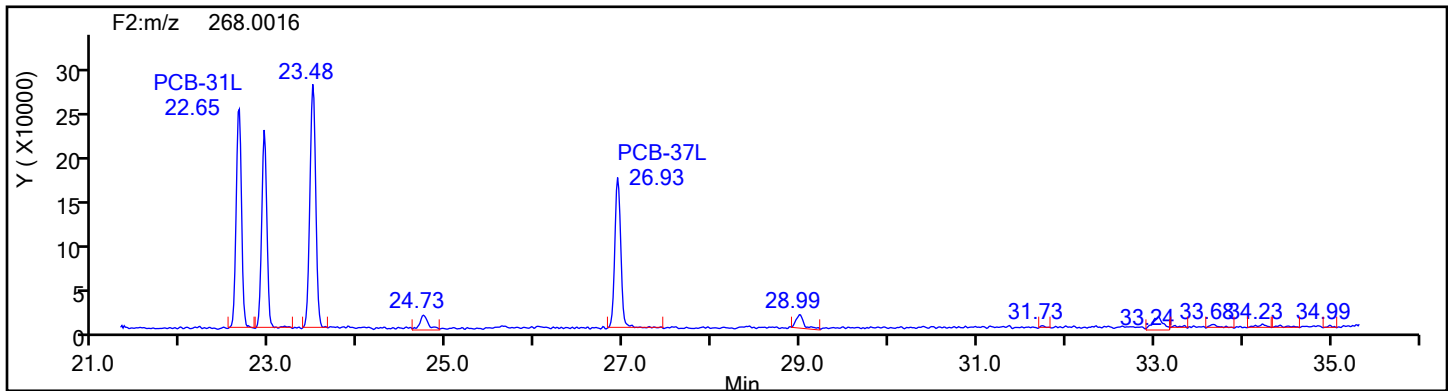
### Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-5-c5x.d  
Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

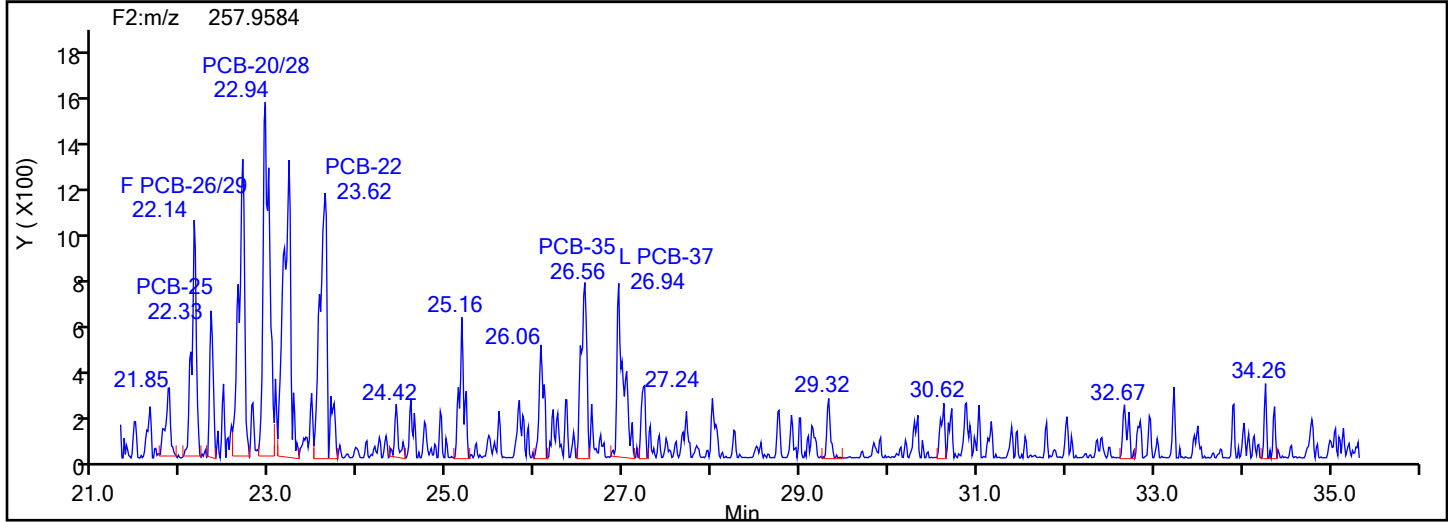
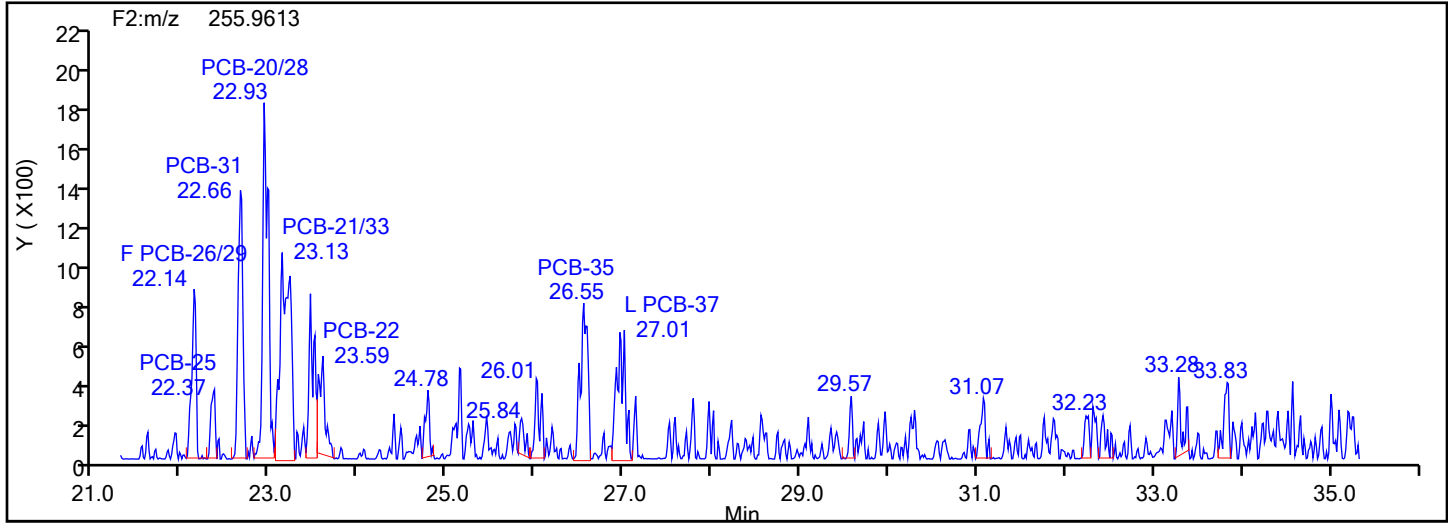


## TriPCB F2 Standards

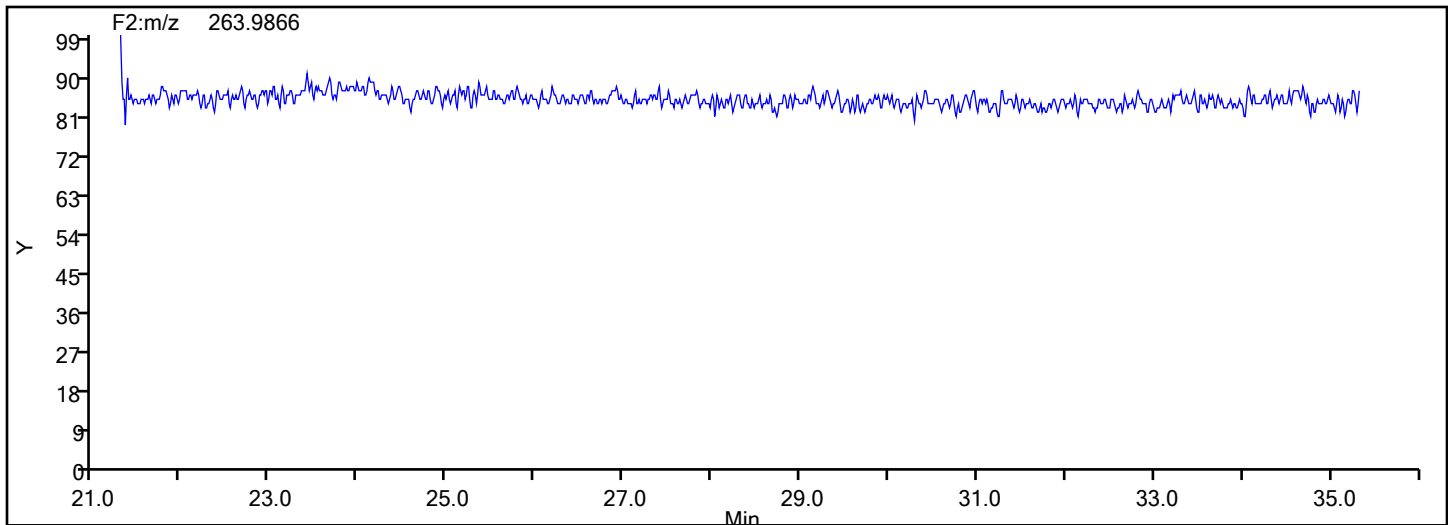


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2



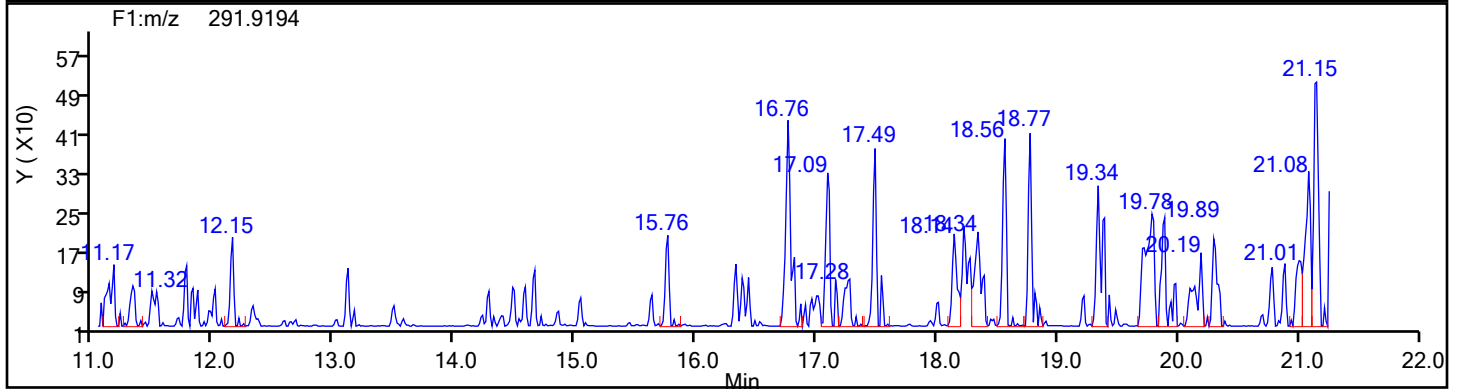
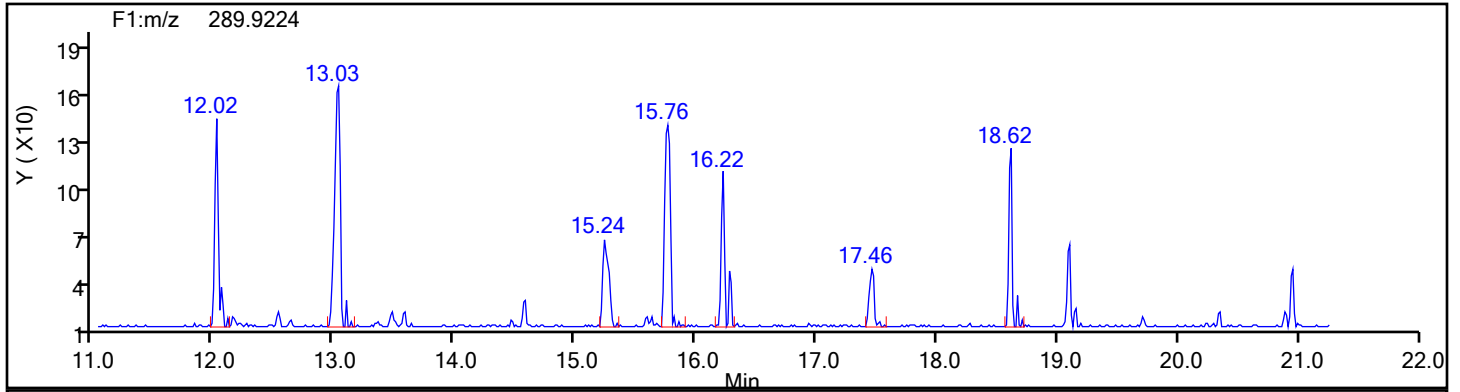
## TriPCB F2 Lock Mass



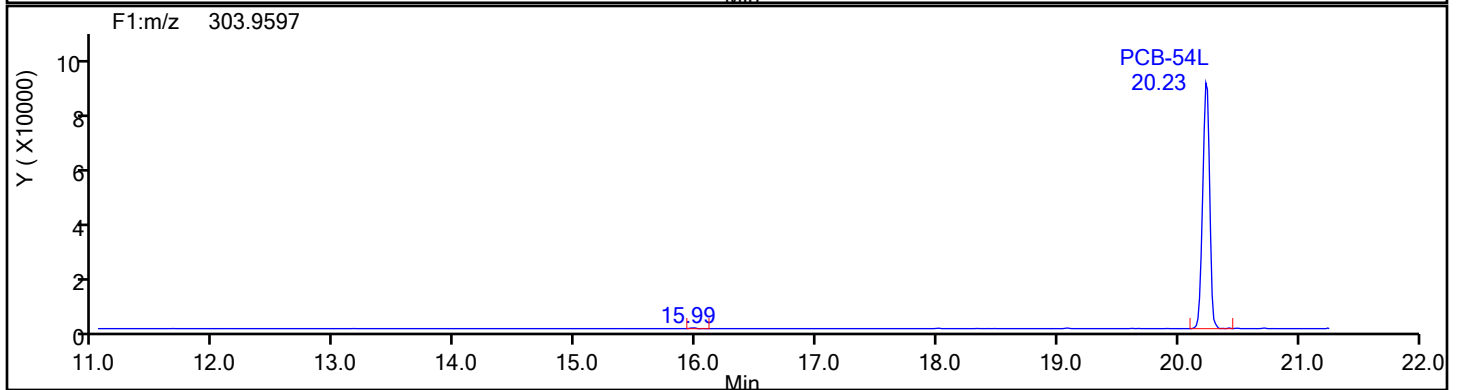
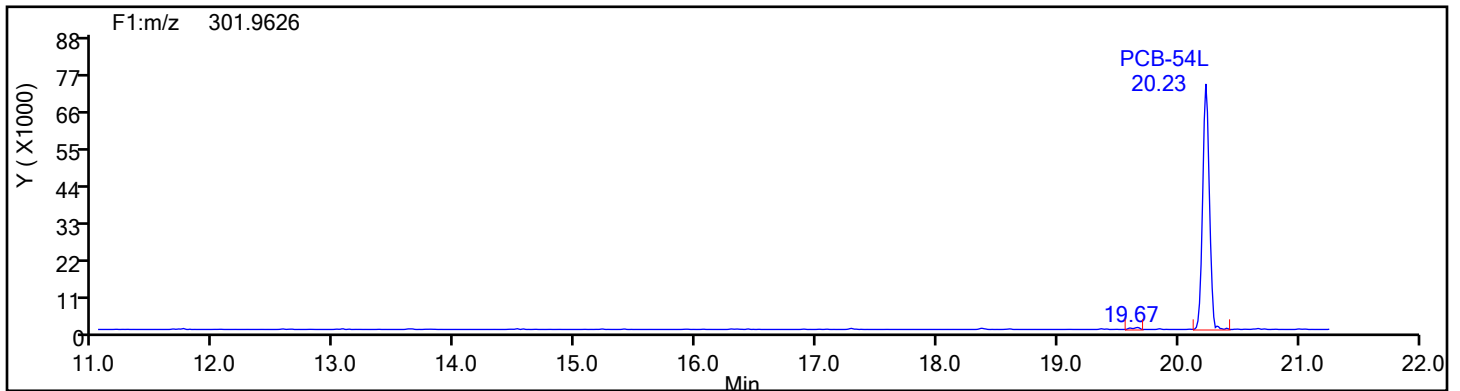


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

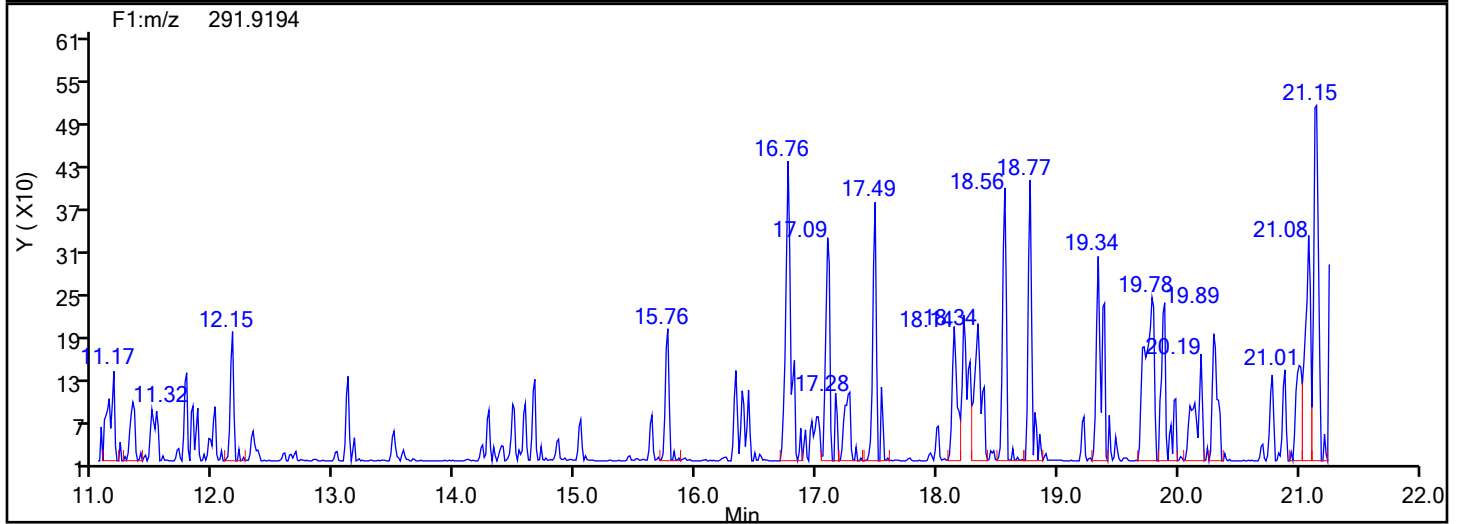
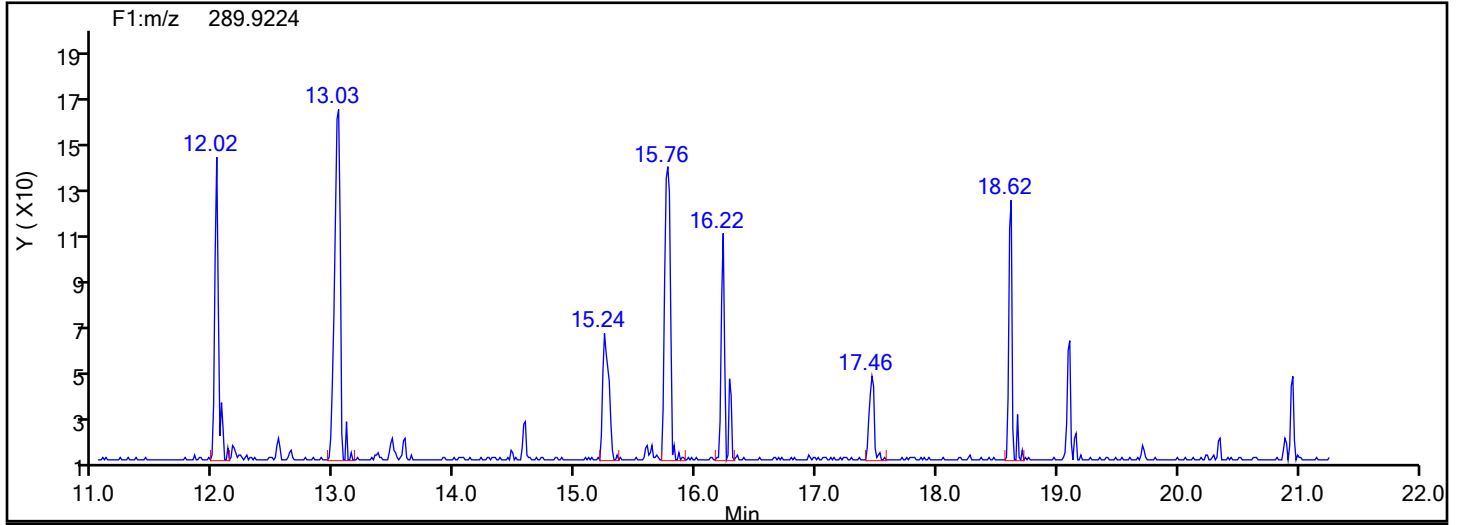


## TePCB F1 Standards

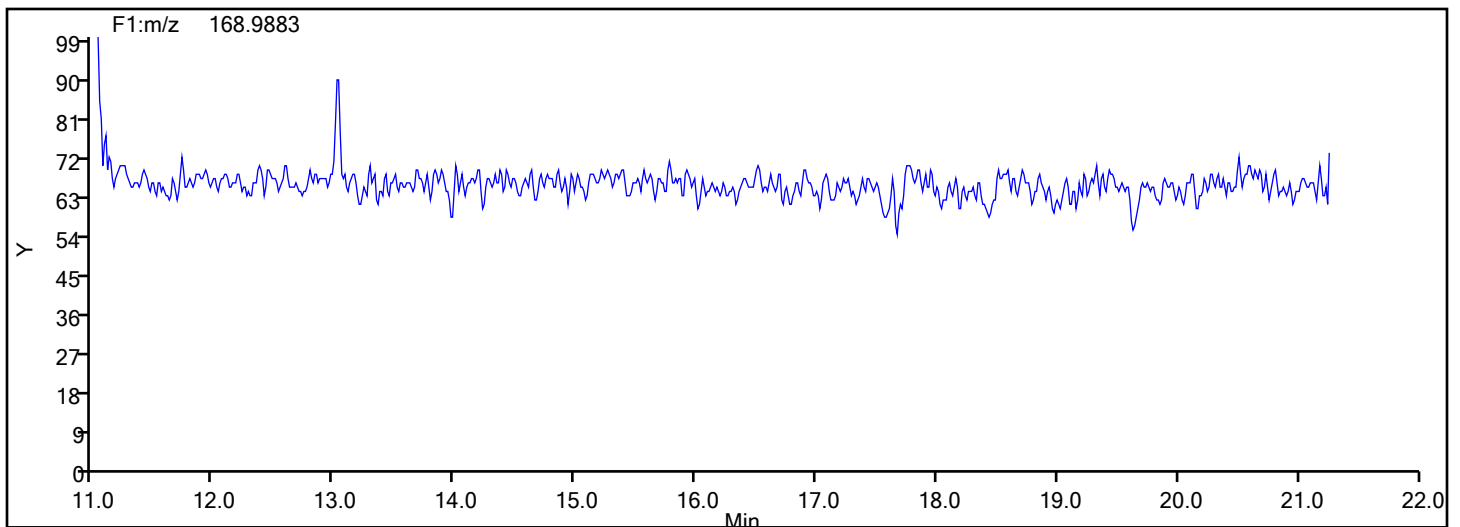


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

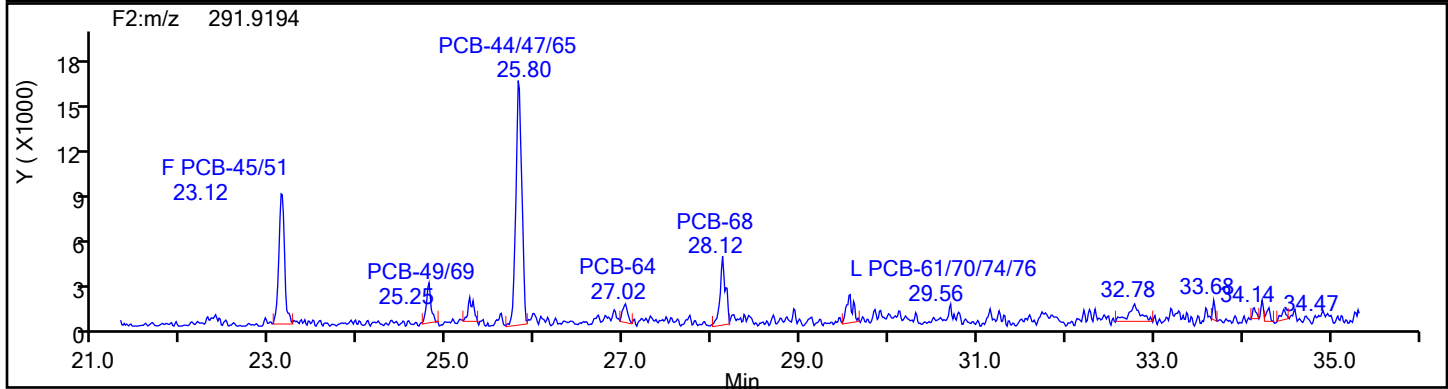
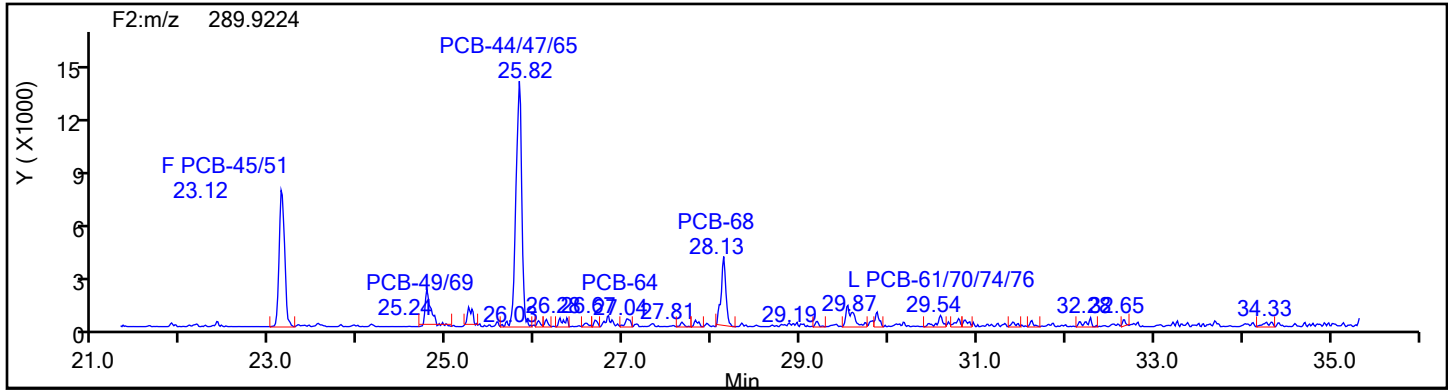


## TePCB F1 Lock Mass

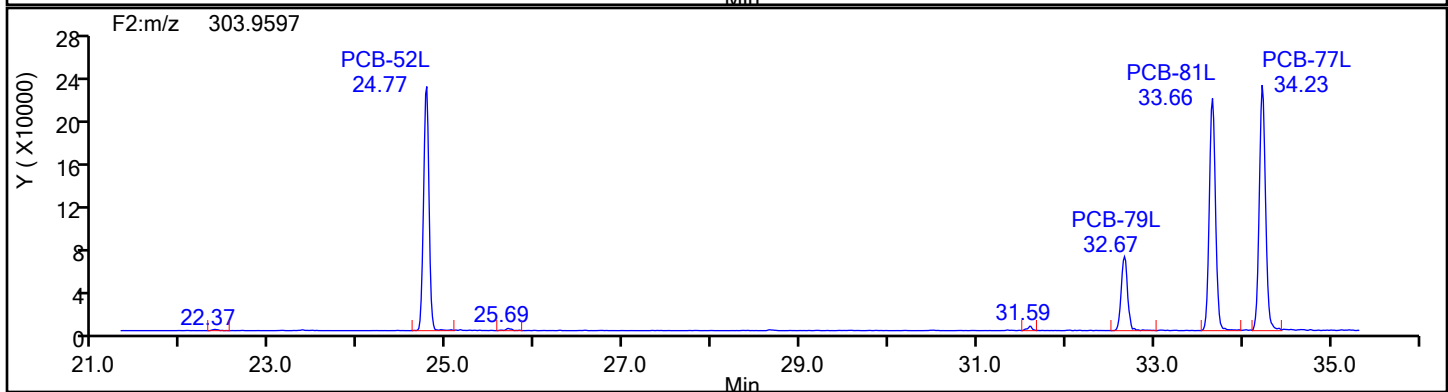
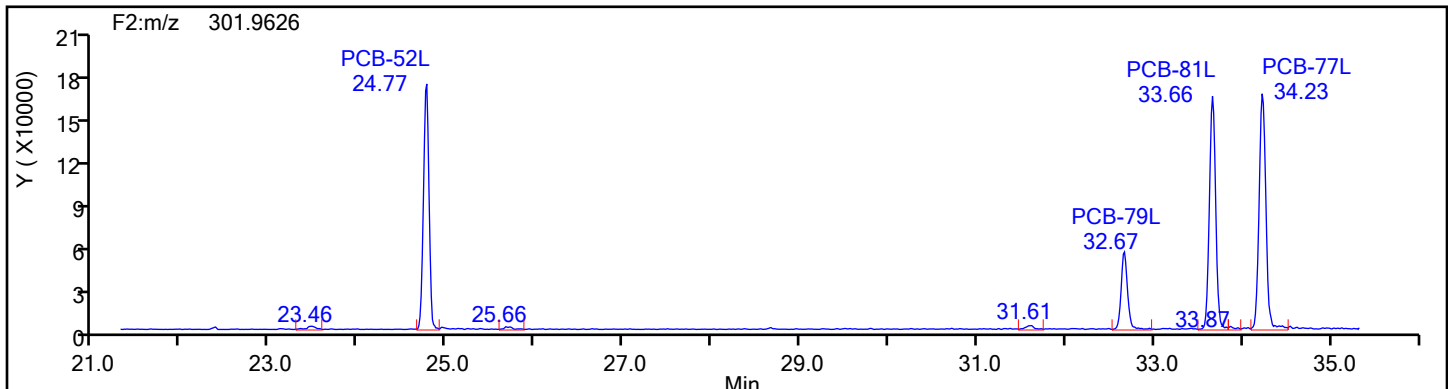


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

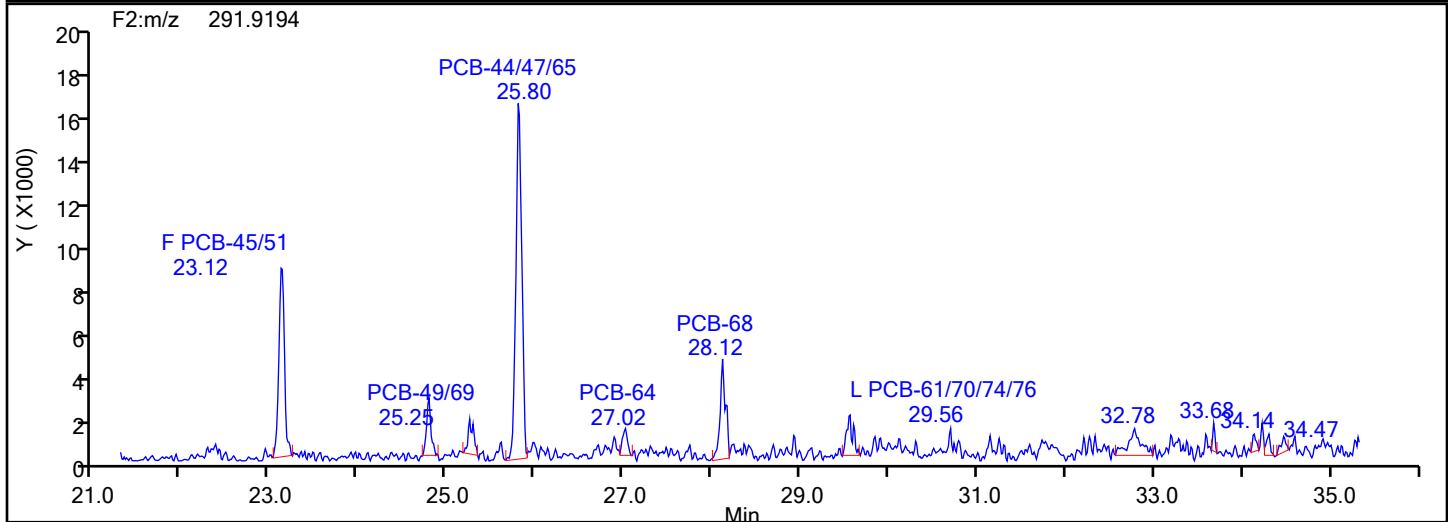
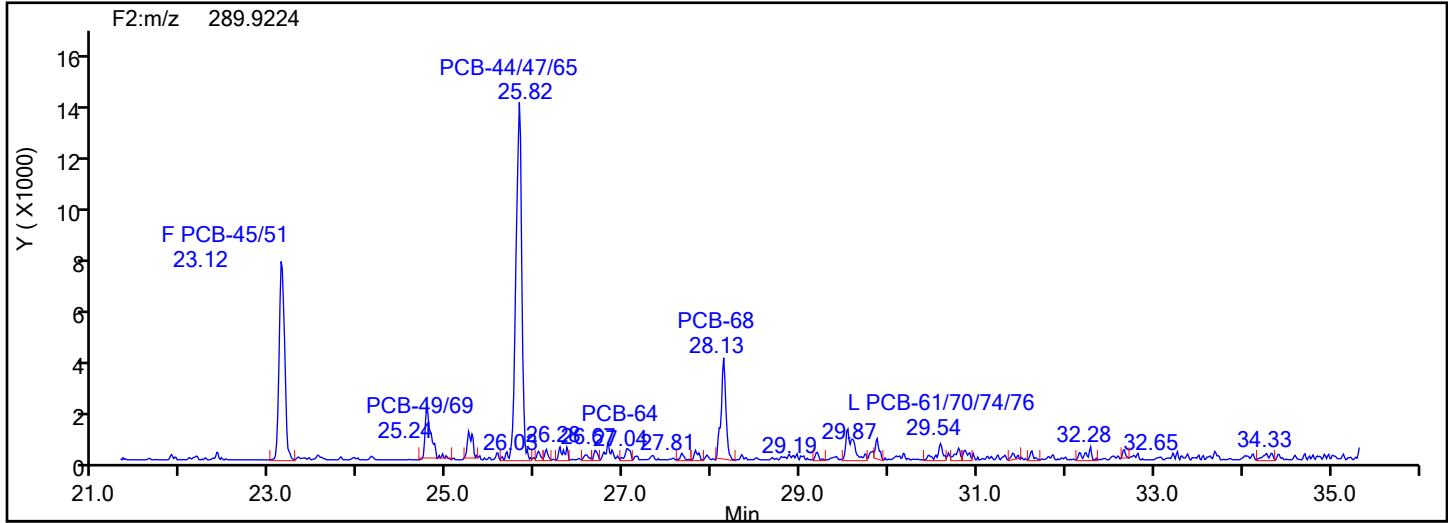


## TePCB F2 Standards

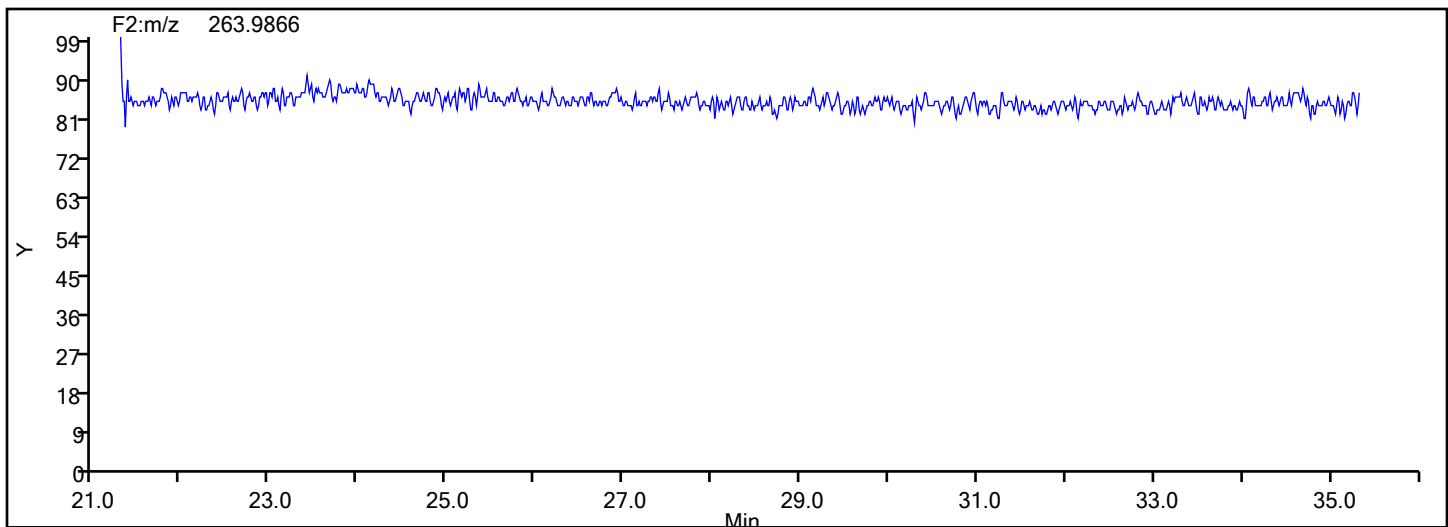


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

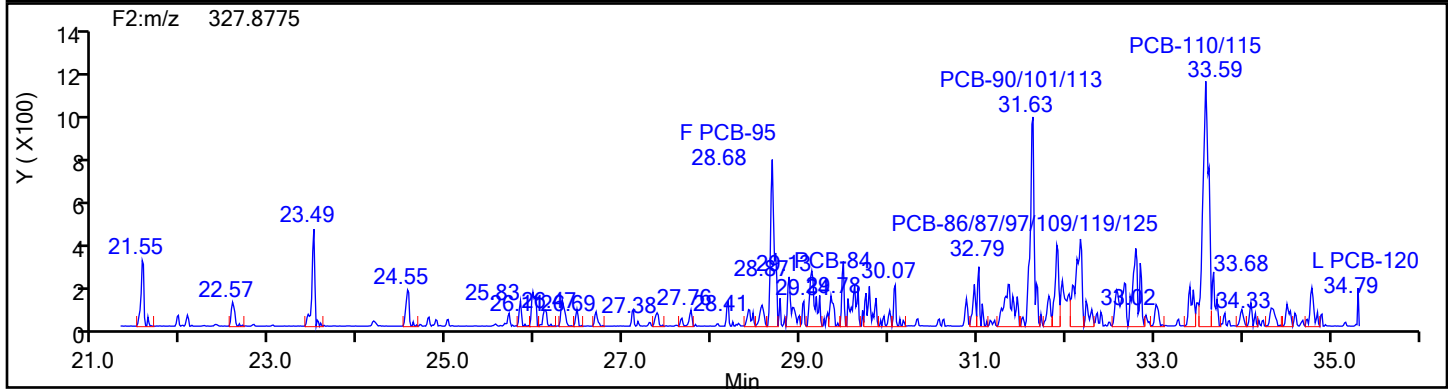
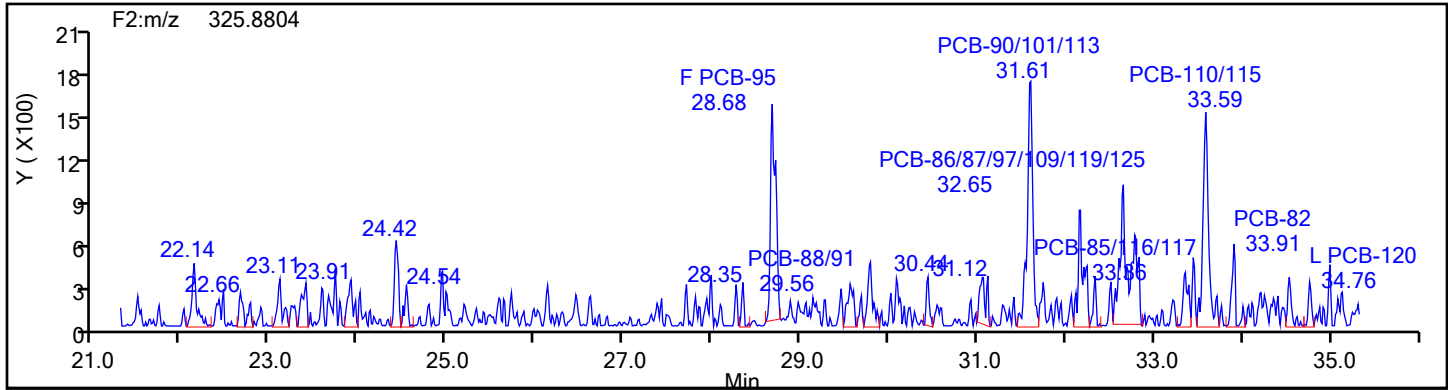


## TePCB F2 Lock Mass

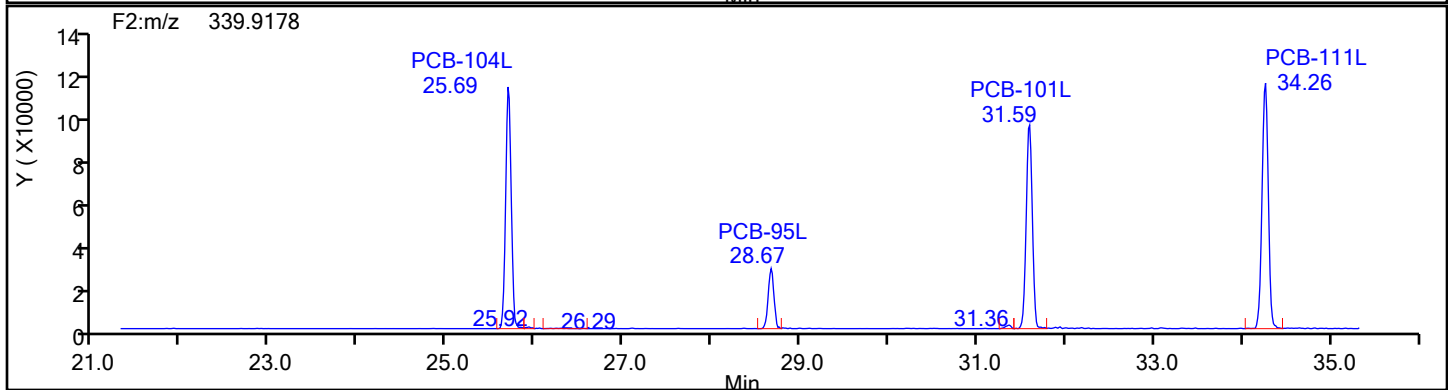
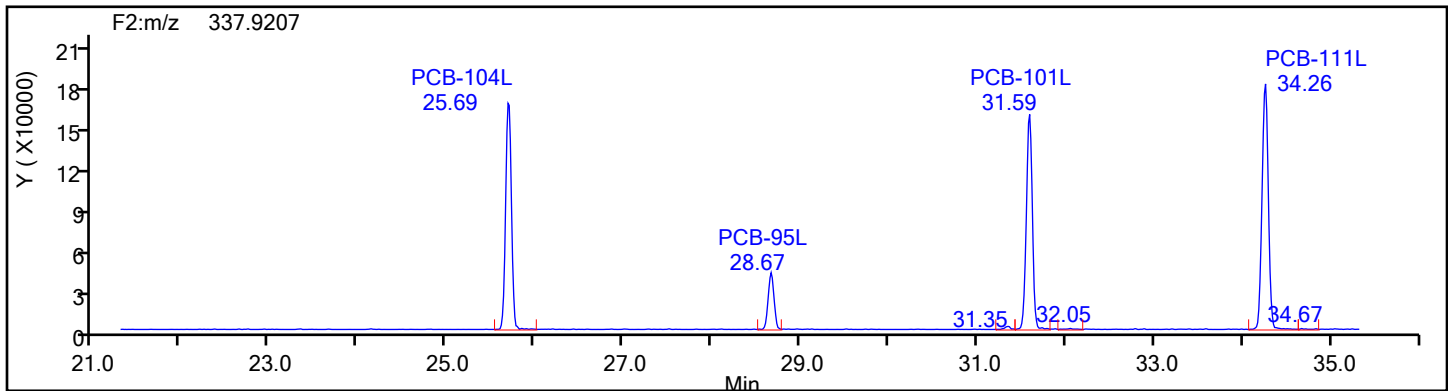


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

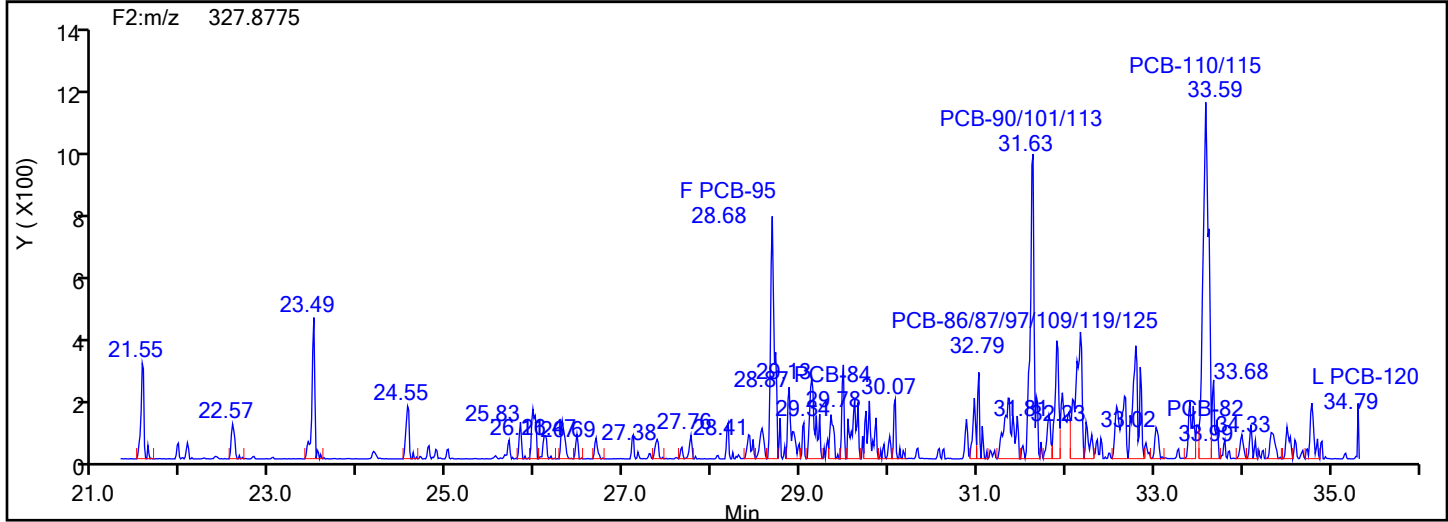
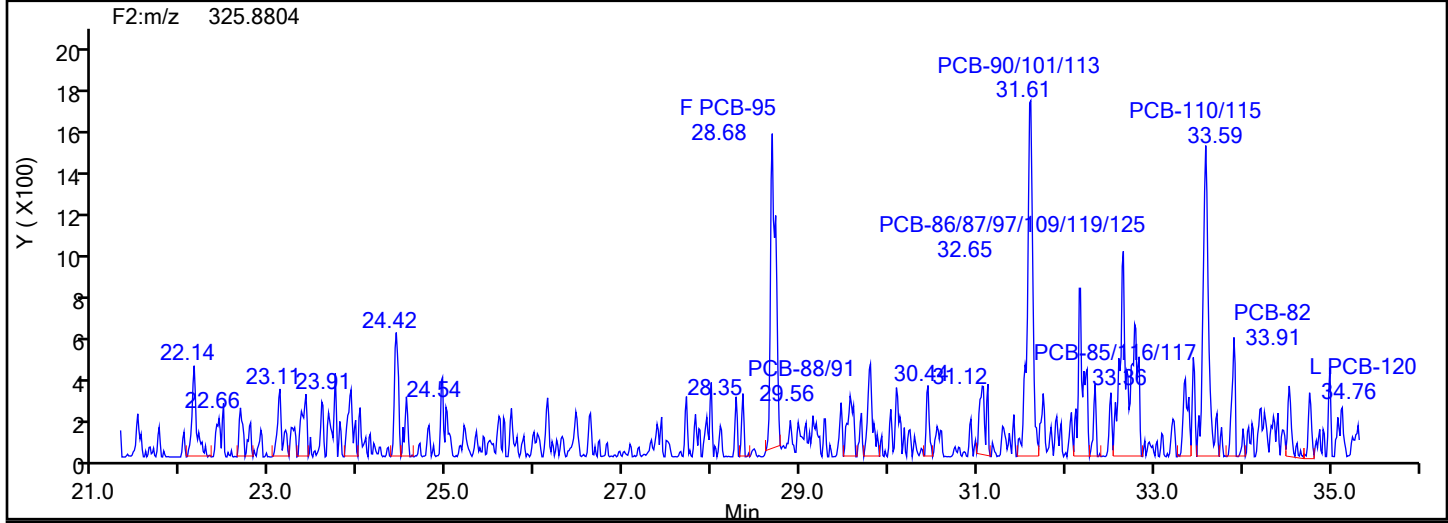


## PePCB F2 Standards

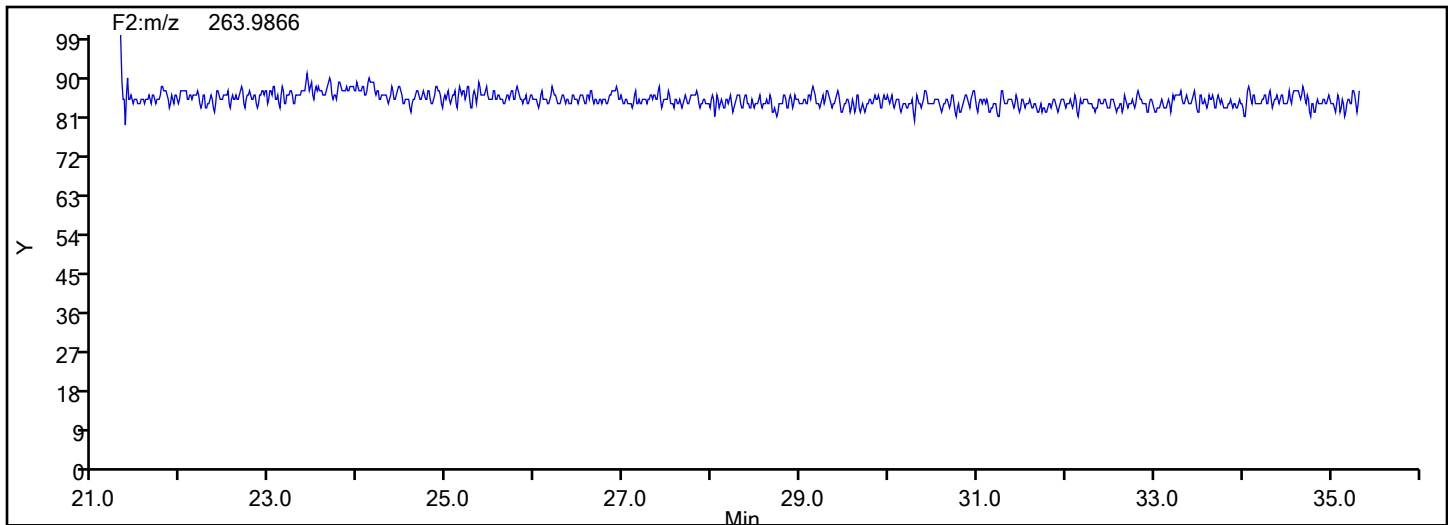


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

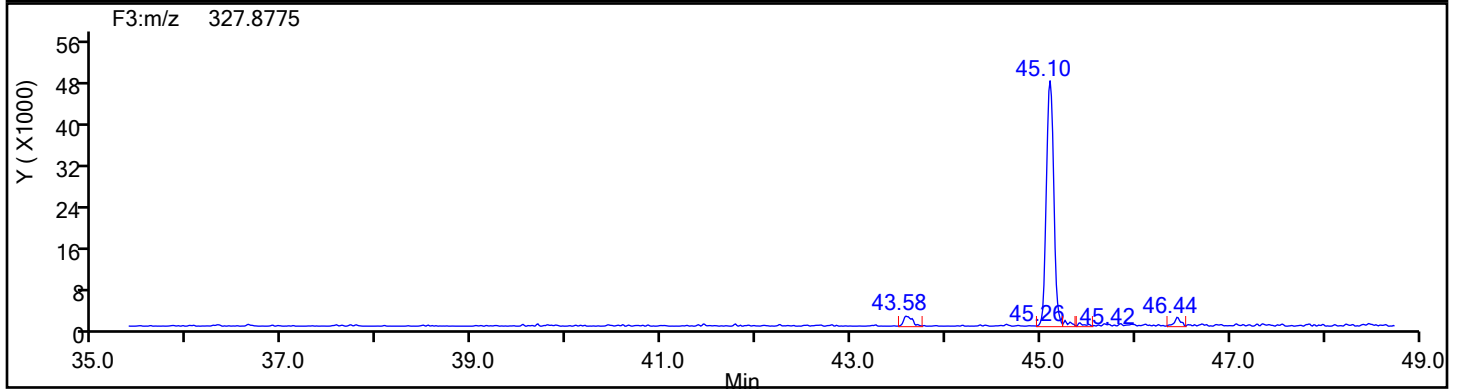
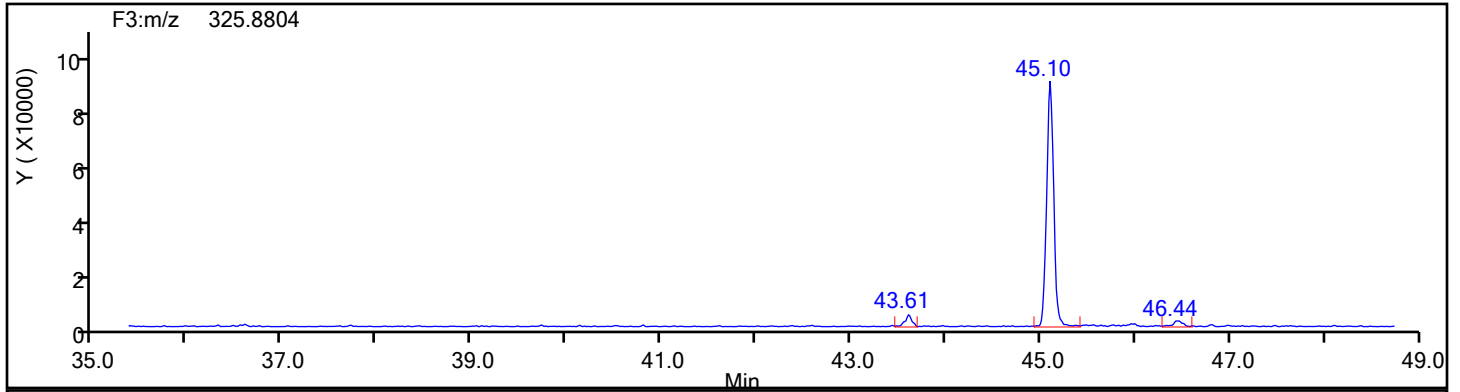


## PePCB F2 Lock Mass

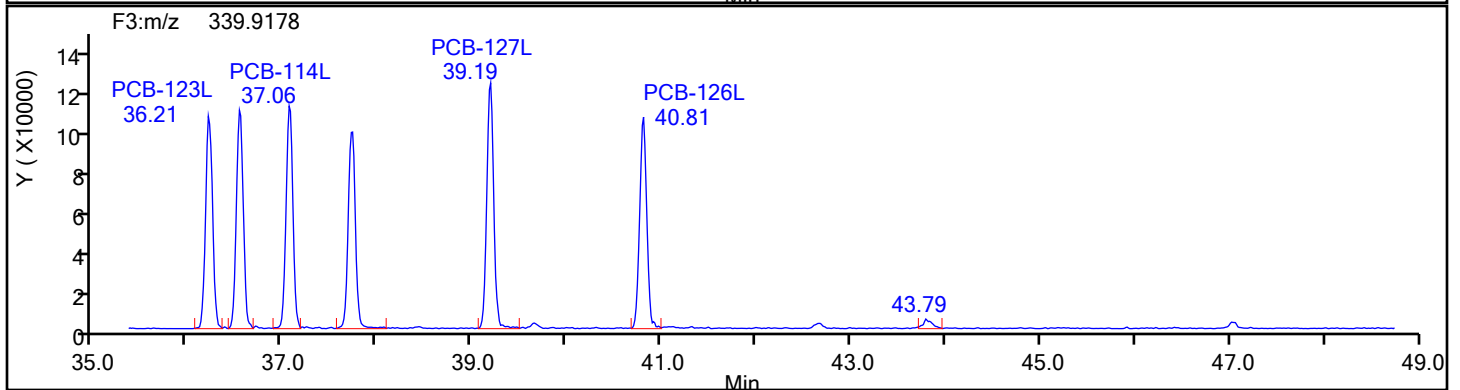
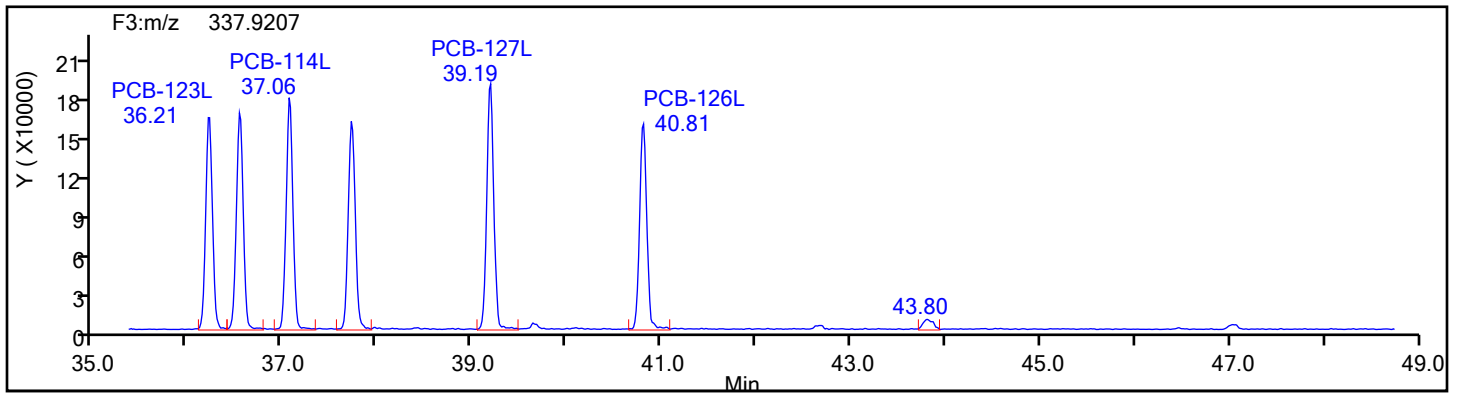


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

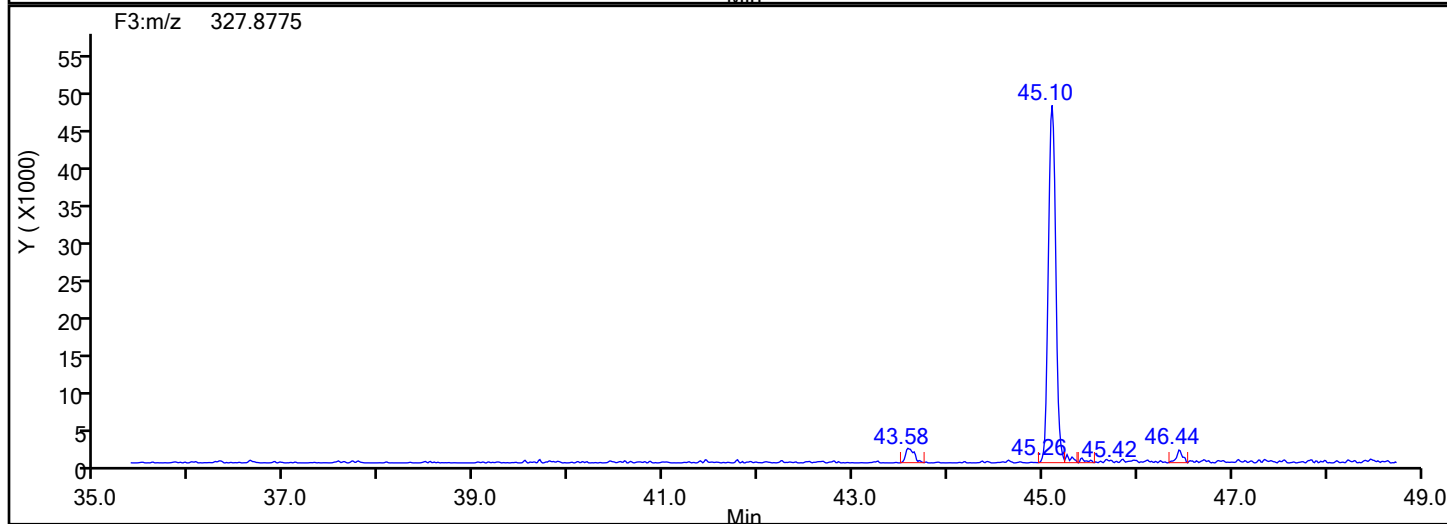
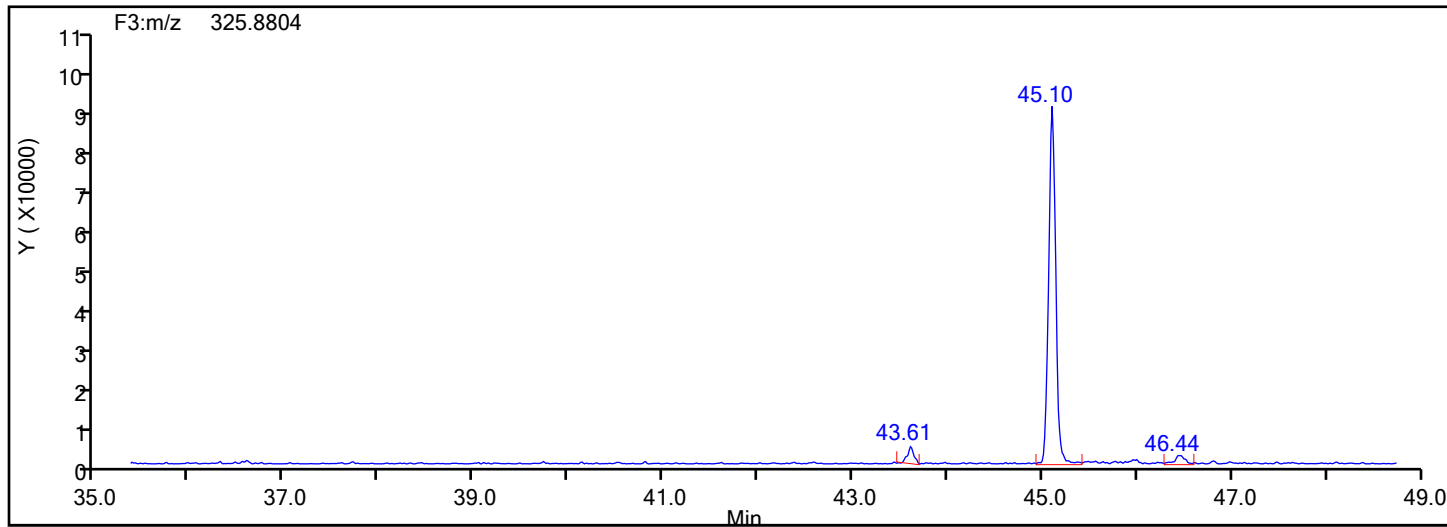


## PePCB F3 Standards

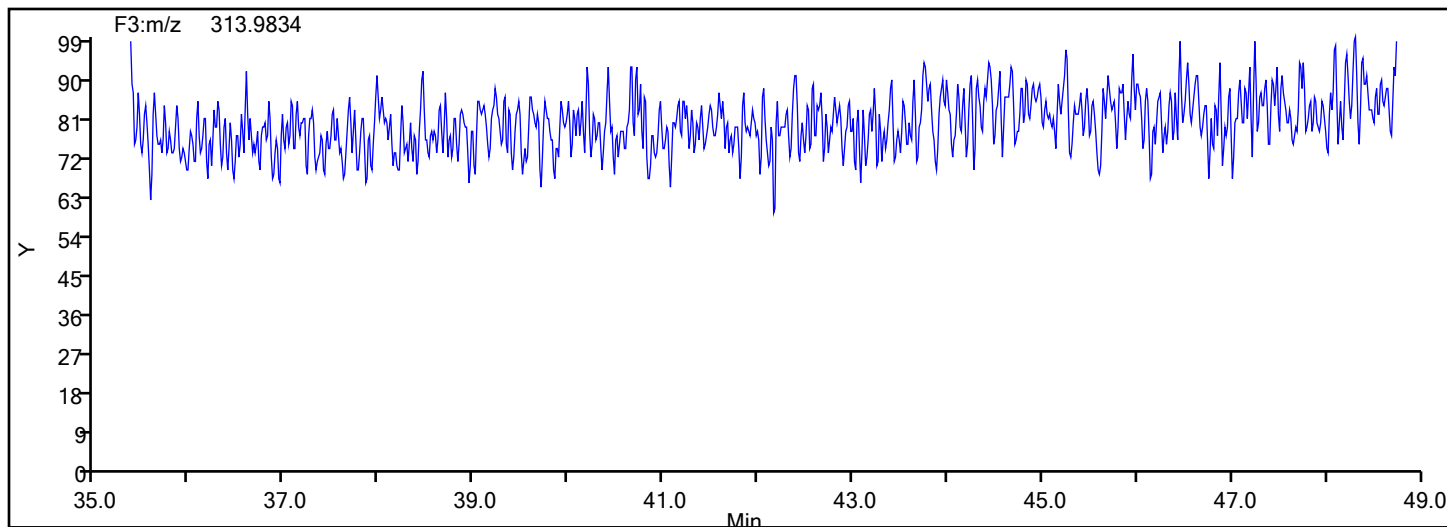


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3



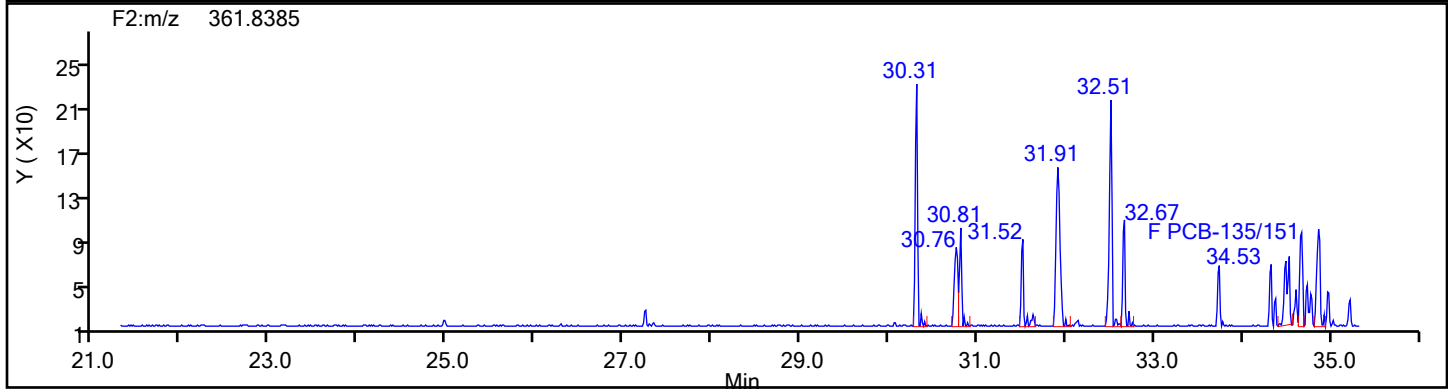
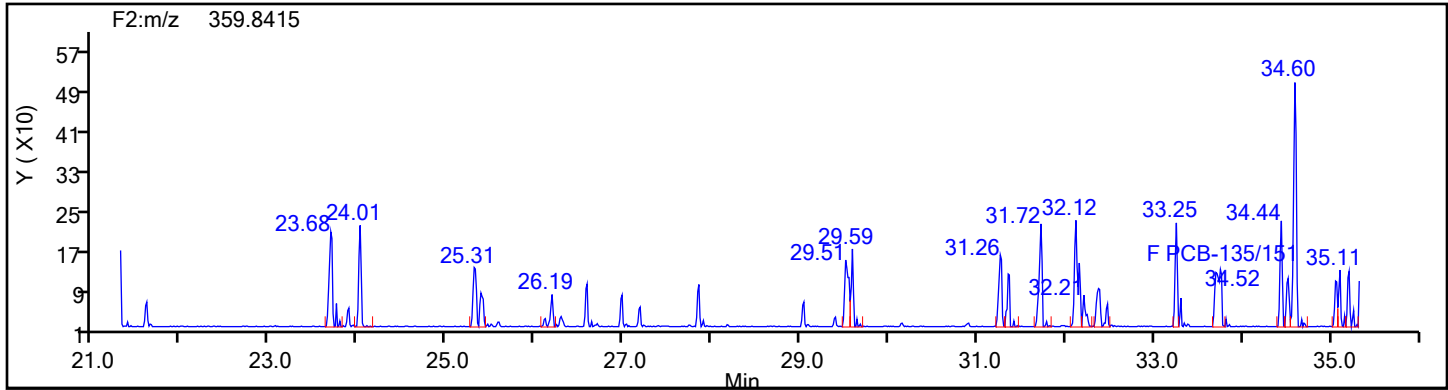
## PePCB F3 Lock Mass



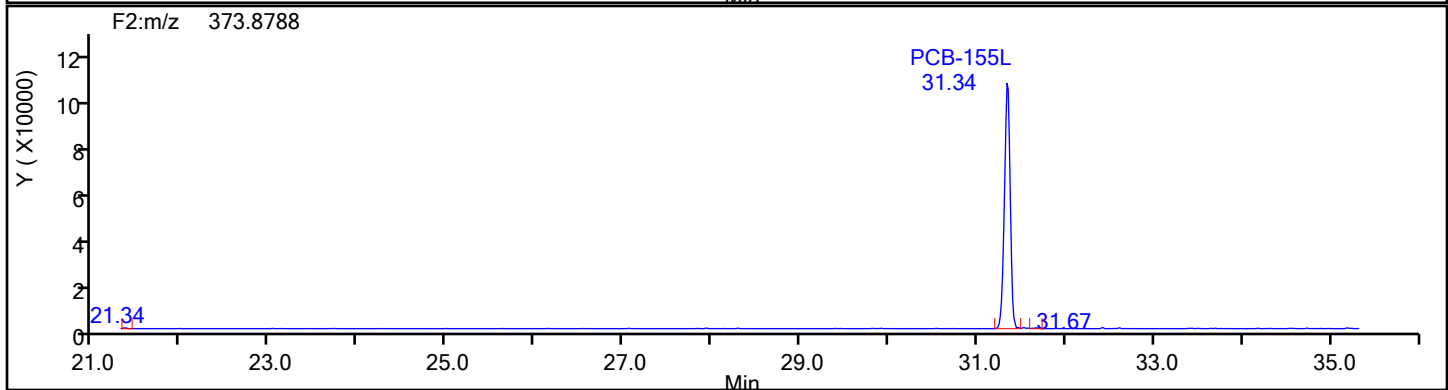
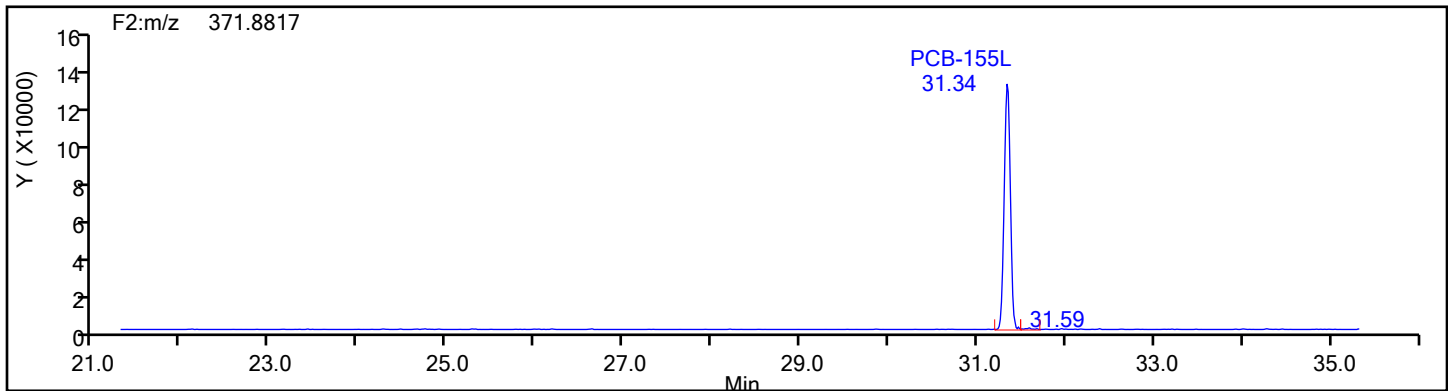


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-5-c5x.d  
Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

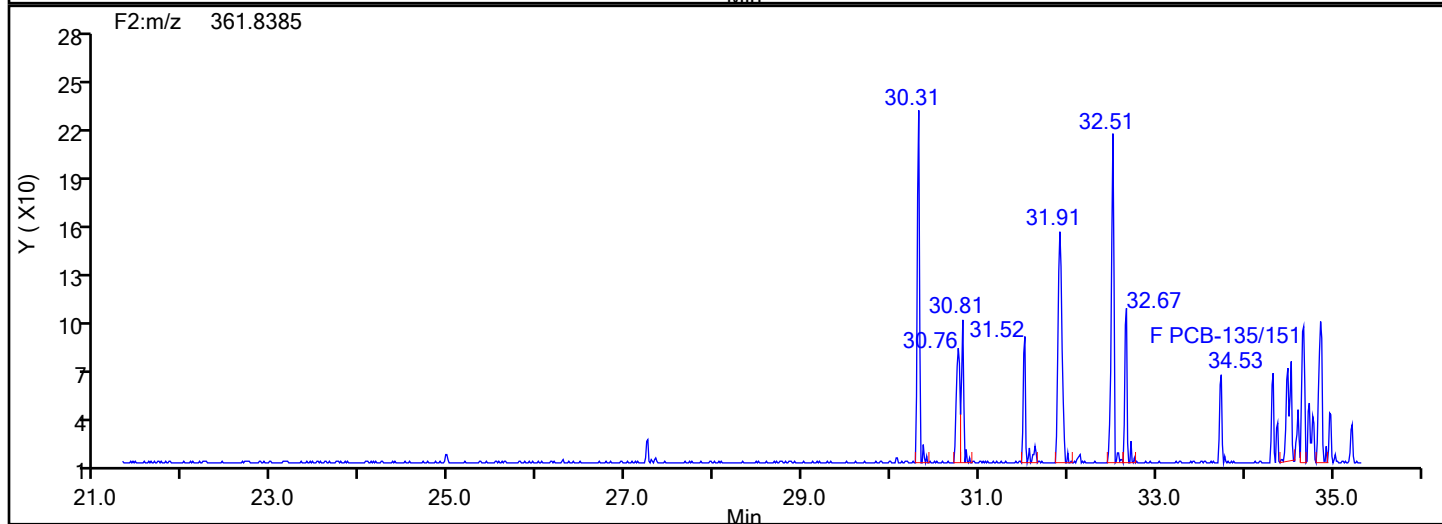
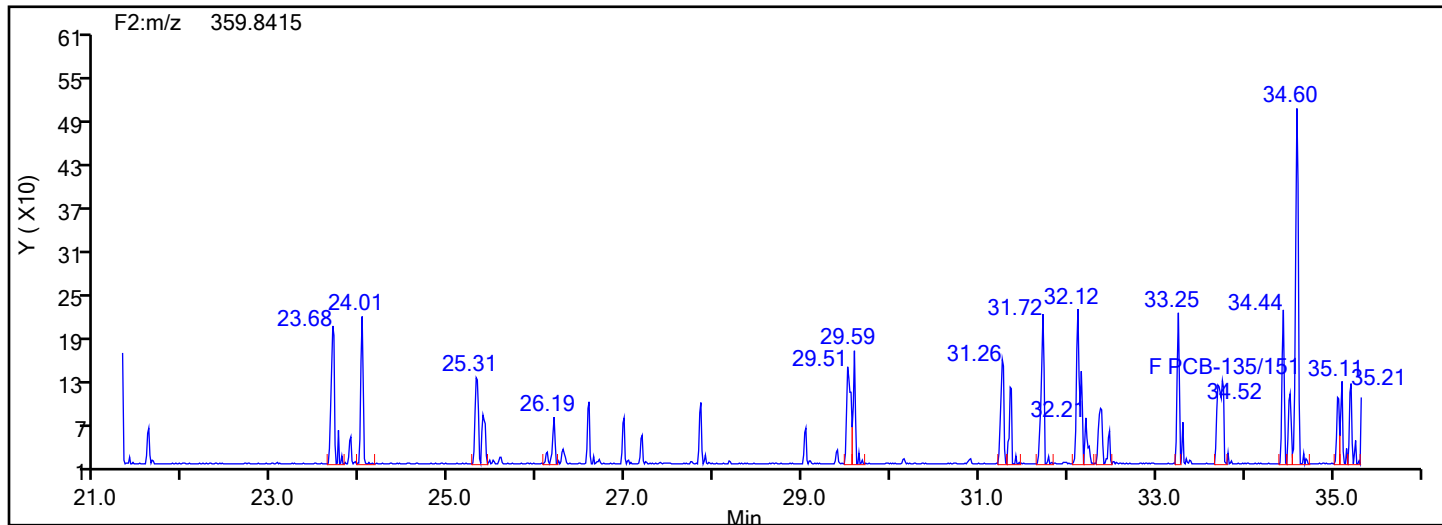


## HxPCB F2 Standards

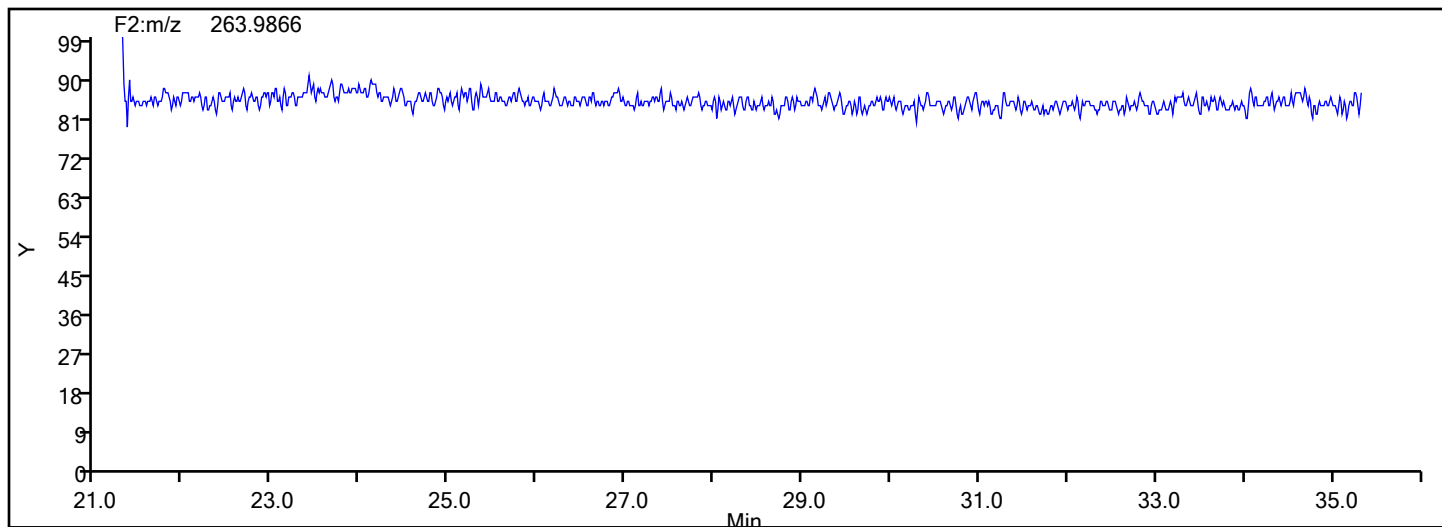


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

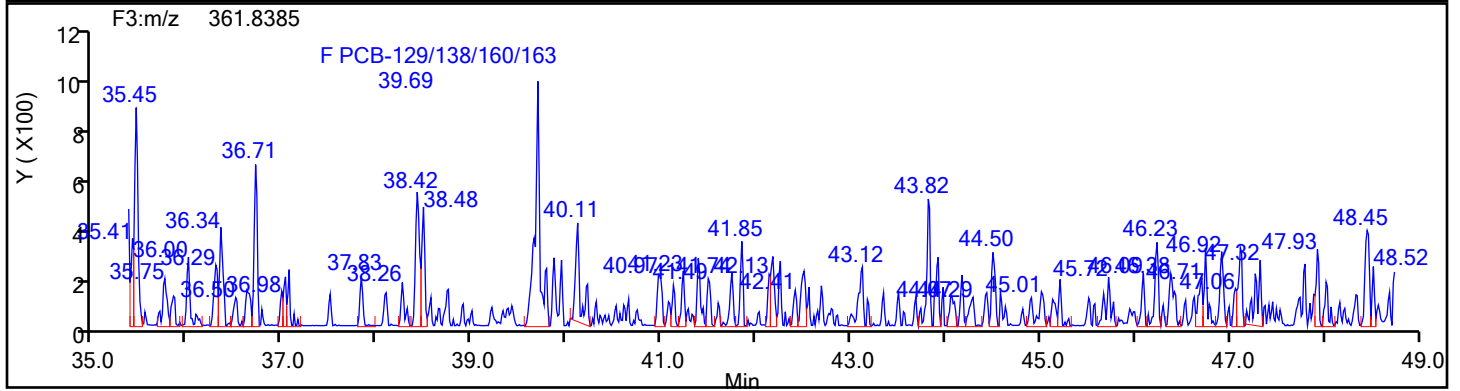
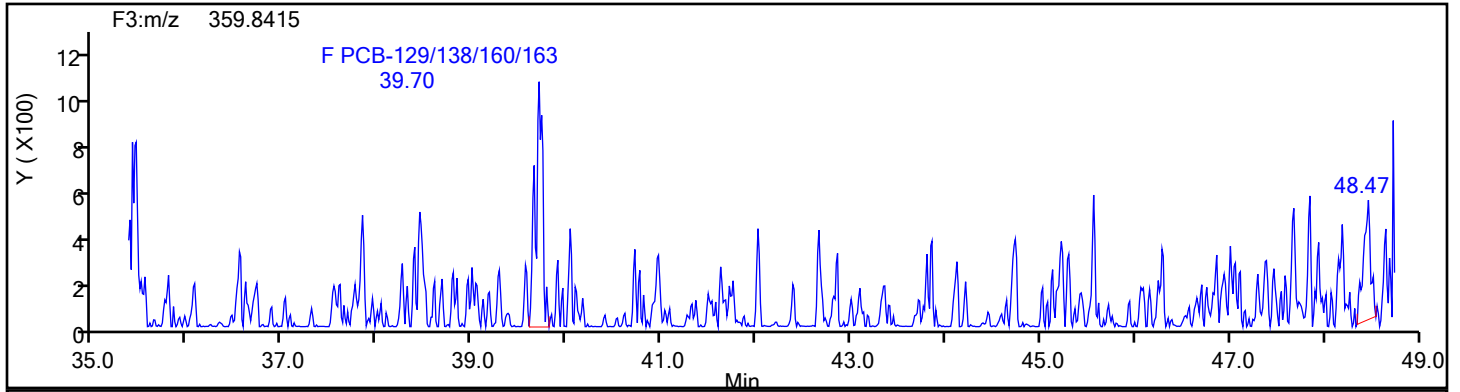


## HxPCB F2 Lock Mass

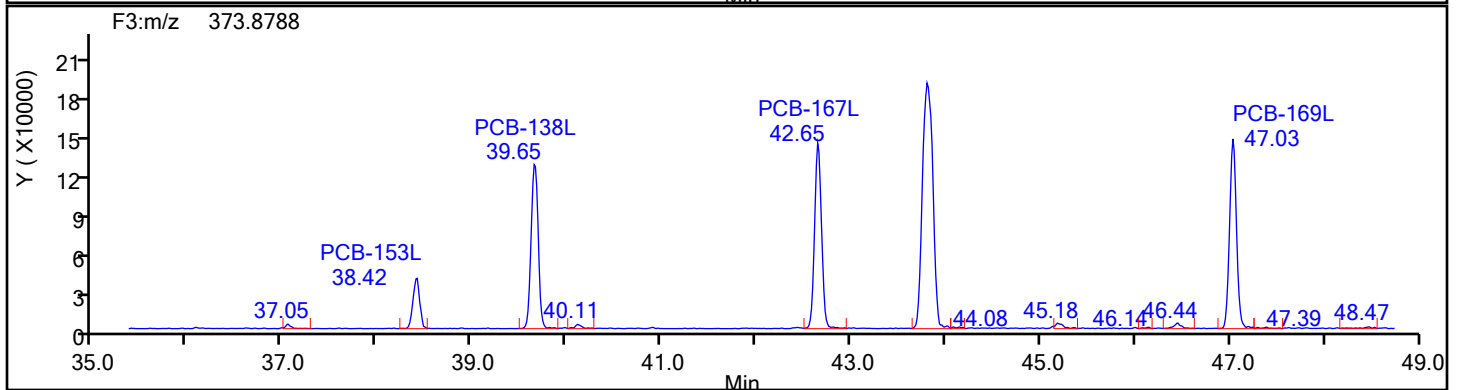
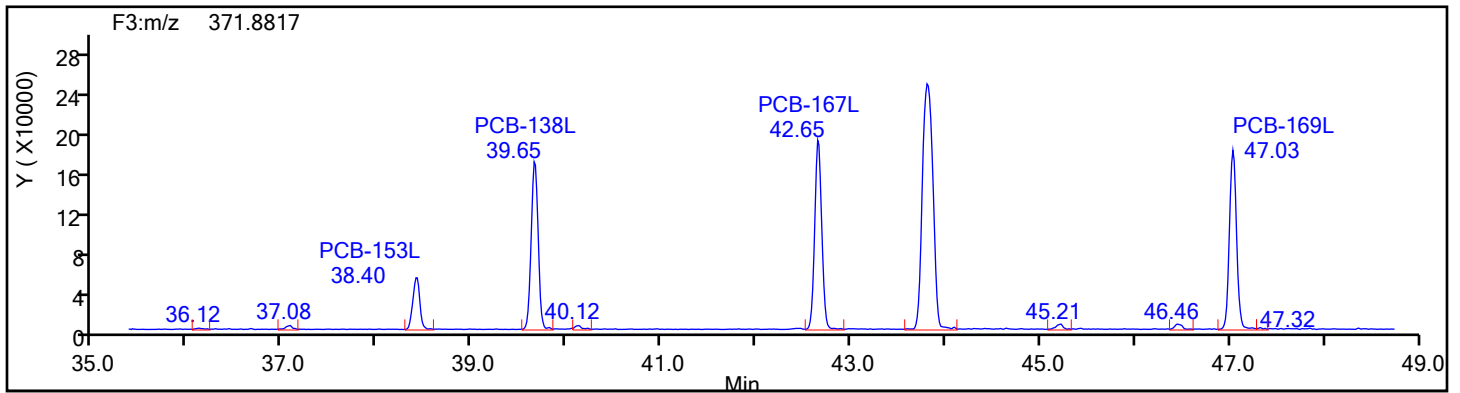


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3

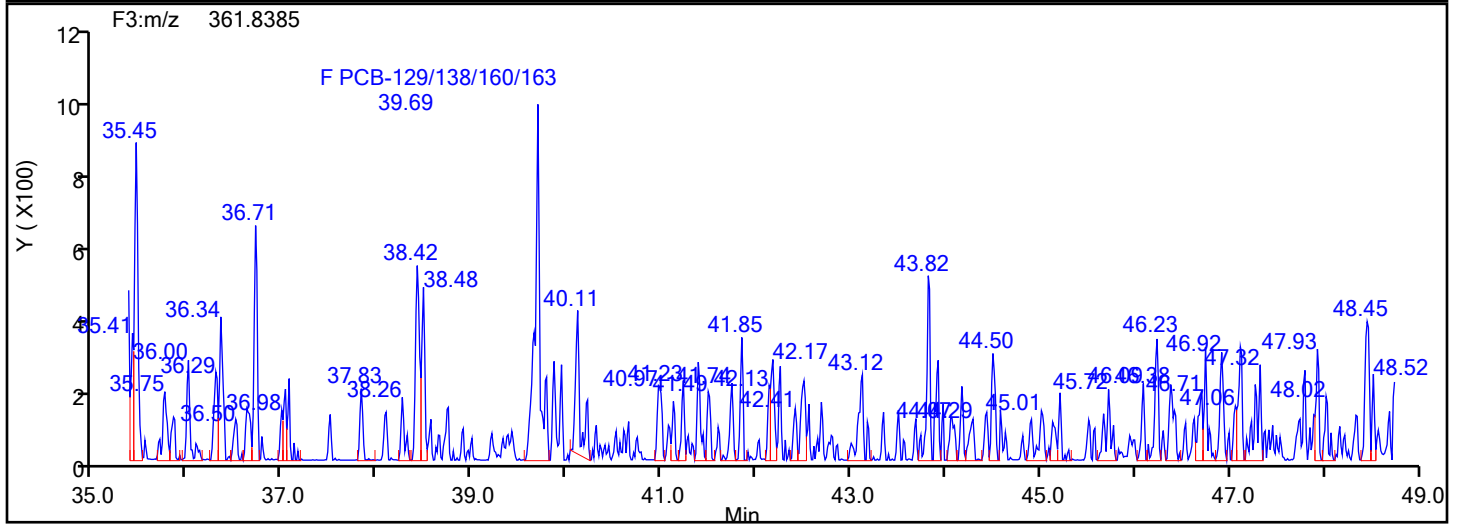
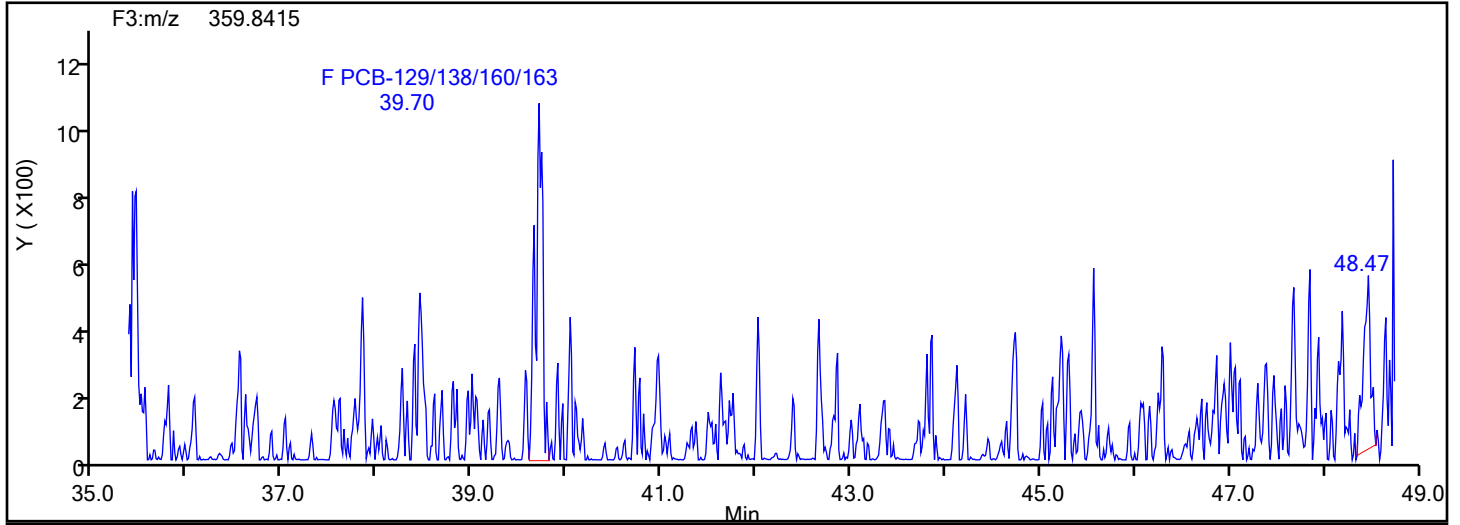


## HxPCB F3 Standards

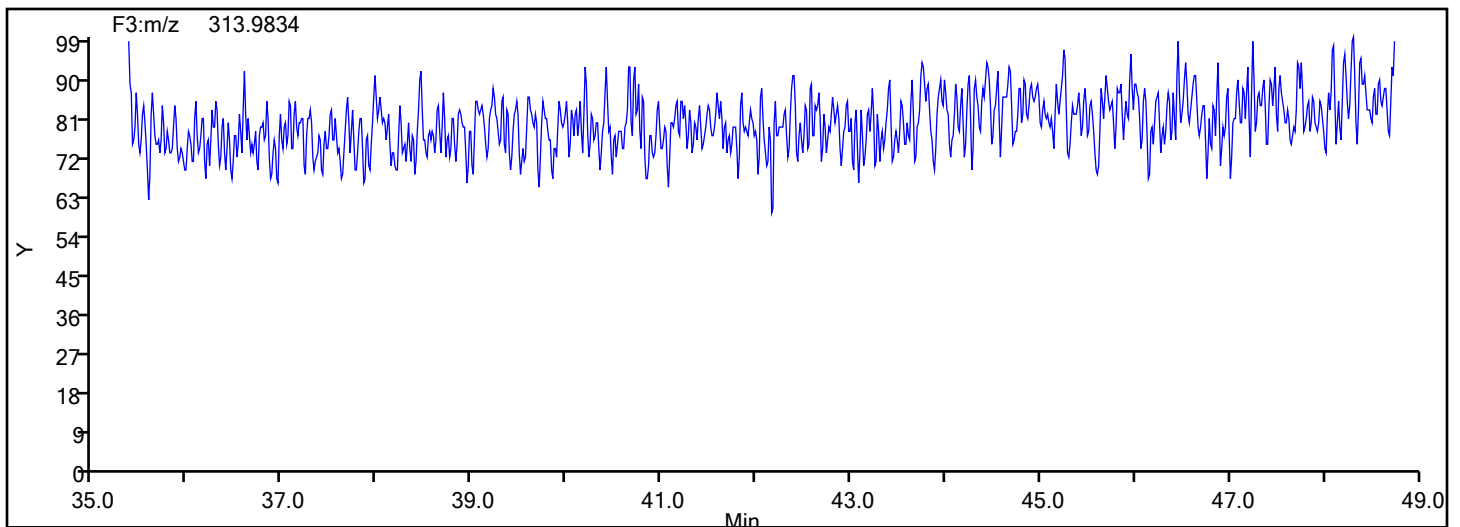


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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3



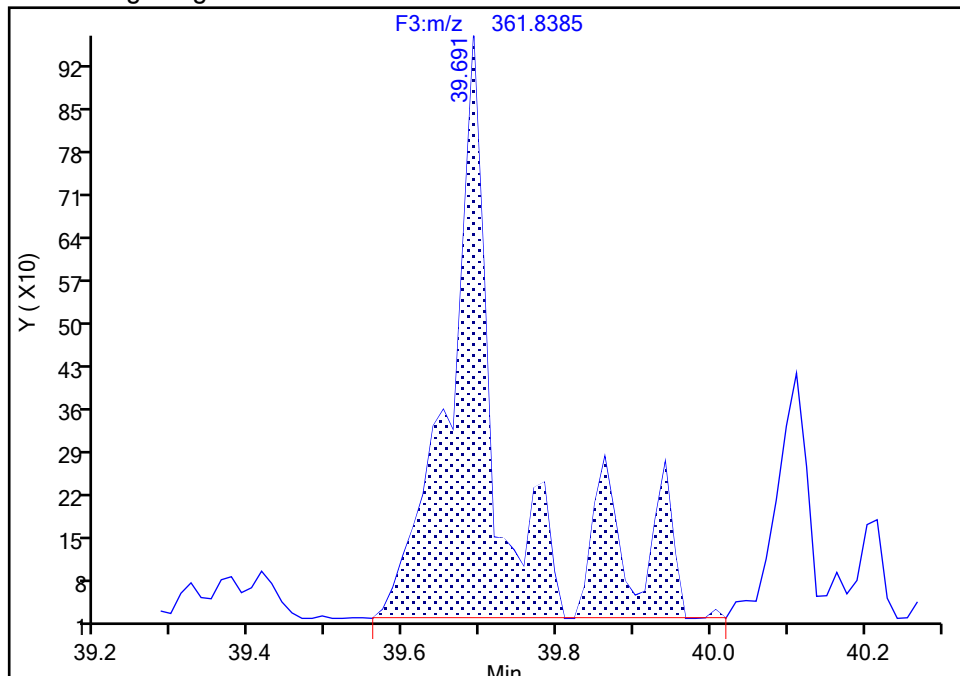
## HxPCB F3 Lock Mass



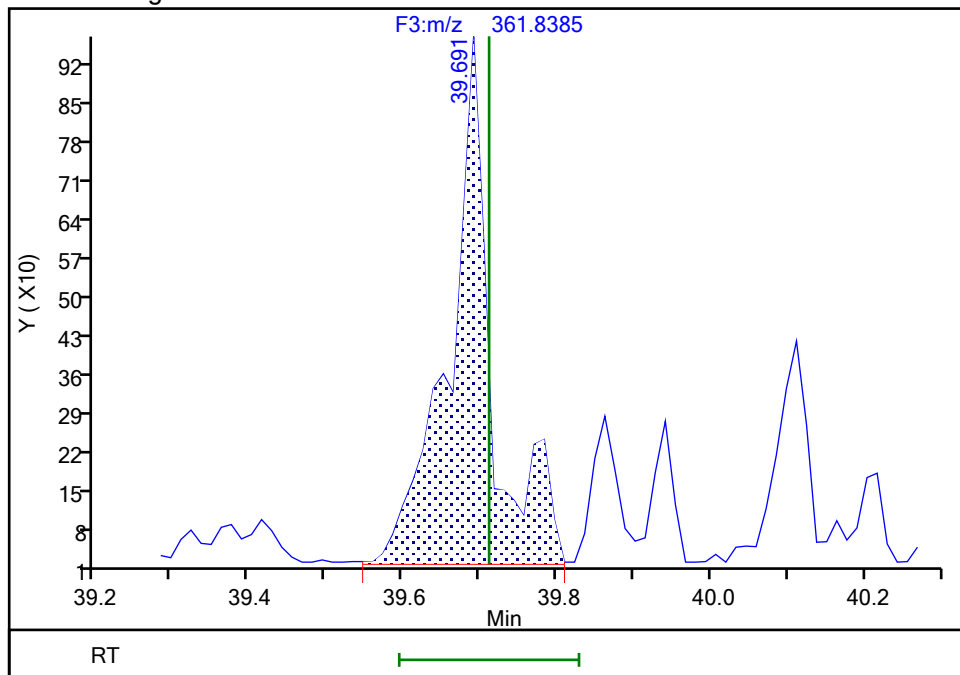
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Injection Date:	28-Jun-2024 15:51:00	Instrument ID:	D2D		
Lims ID:	140-36940-A-5-C	Lab Sample ID:	140-36940-5		
Client ID:	M23 - EPN 4-1\IN-701-RUN 5-COMBINED				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	5.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.10 )		

Signal: 2

RT: 39.69  
Area: 4697  
Amount: 0.128197  
Amount Units: pg/ul



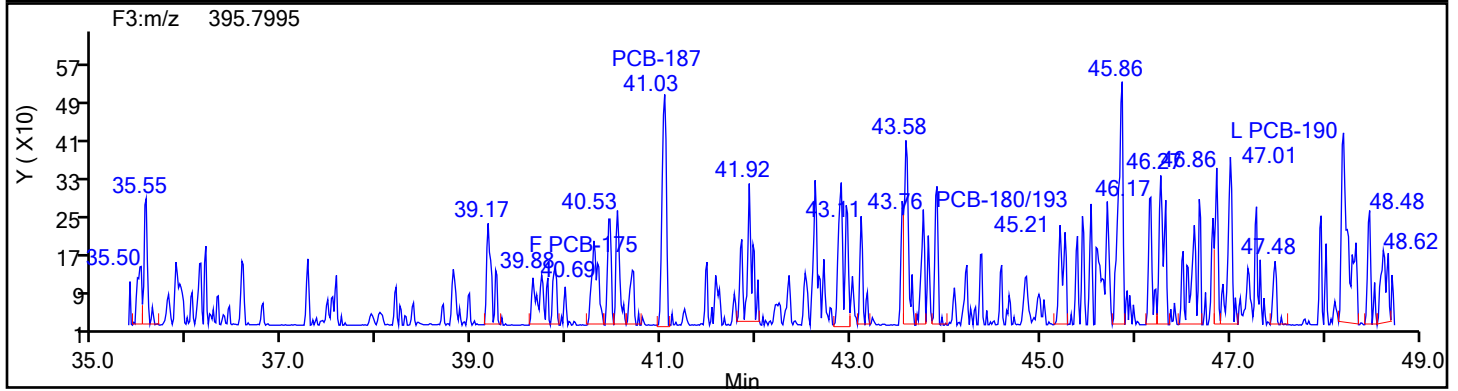
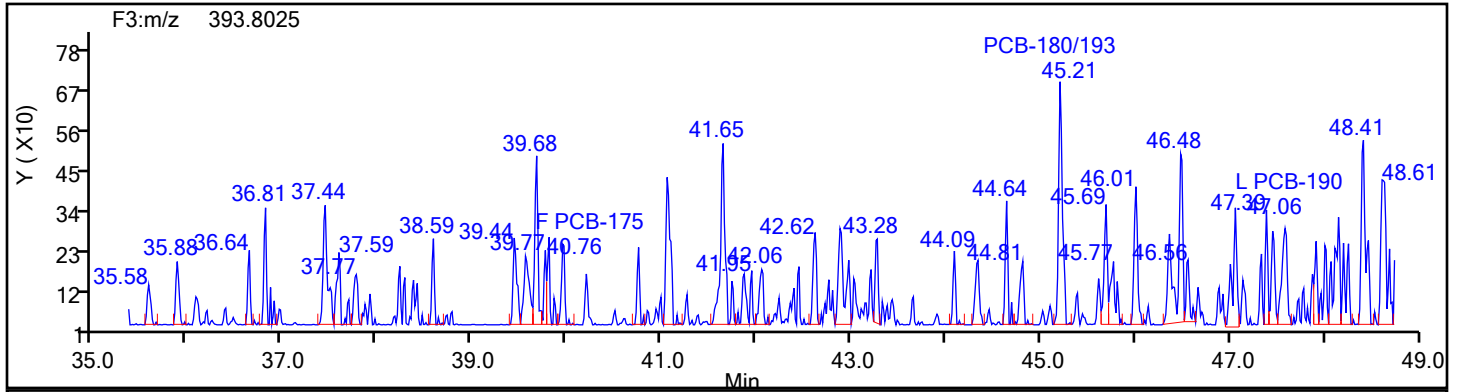
RT: 39.69  
Area: 3666  
Amount: 0.115296  
Amount Units: pg/ul



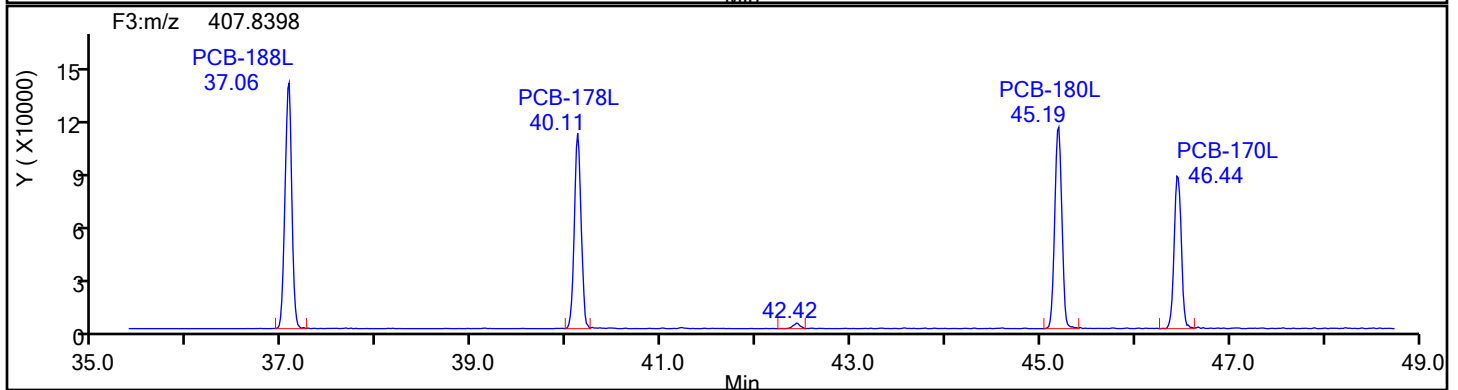
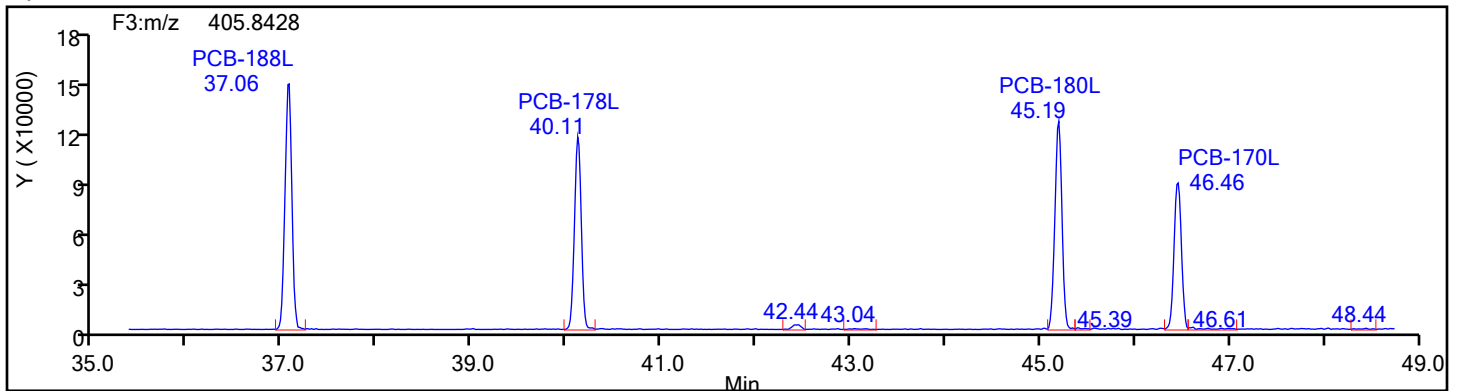
### Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

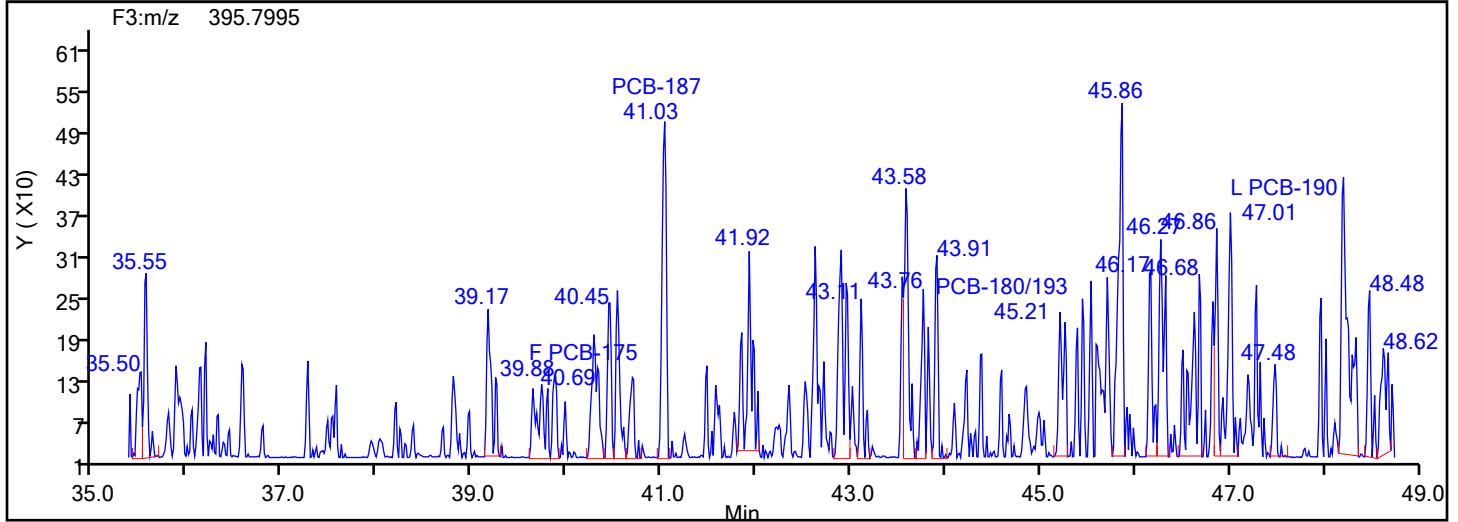
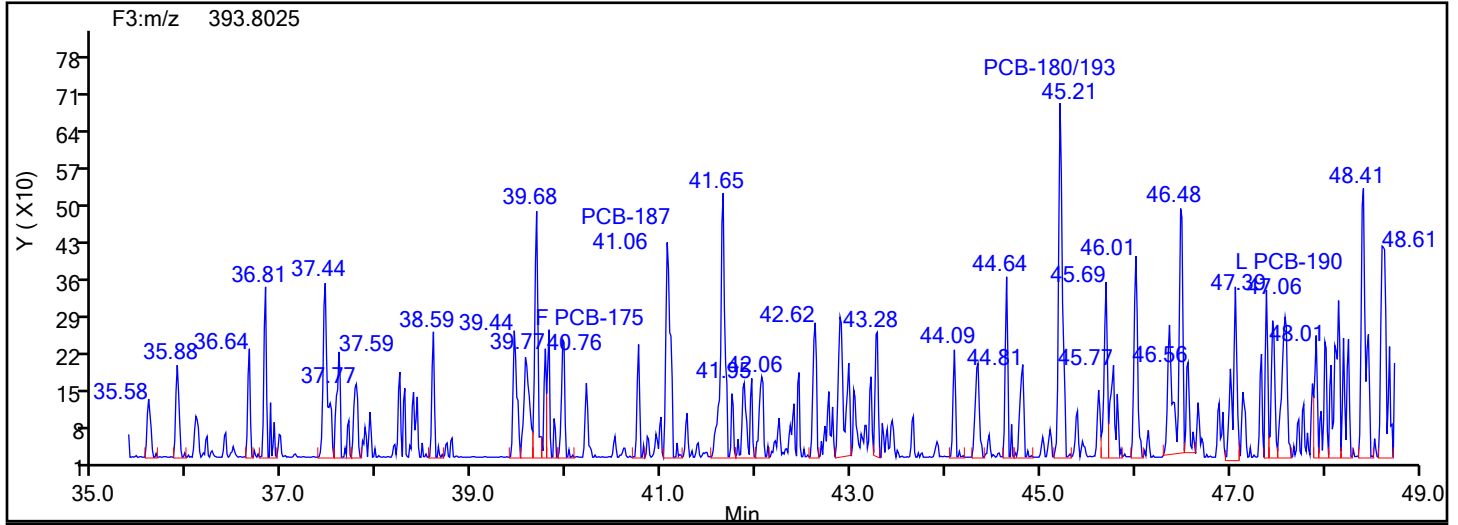


## HpPCB F3 Standards

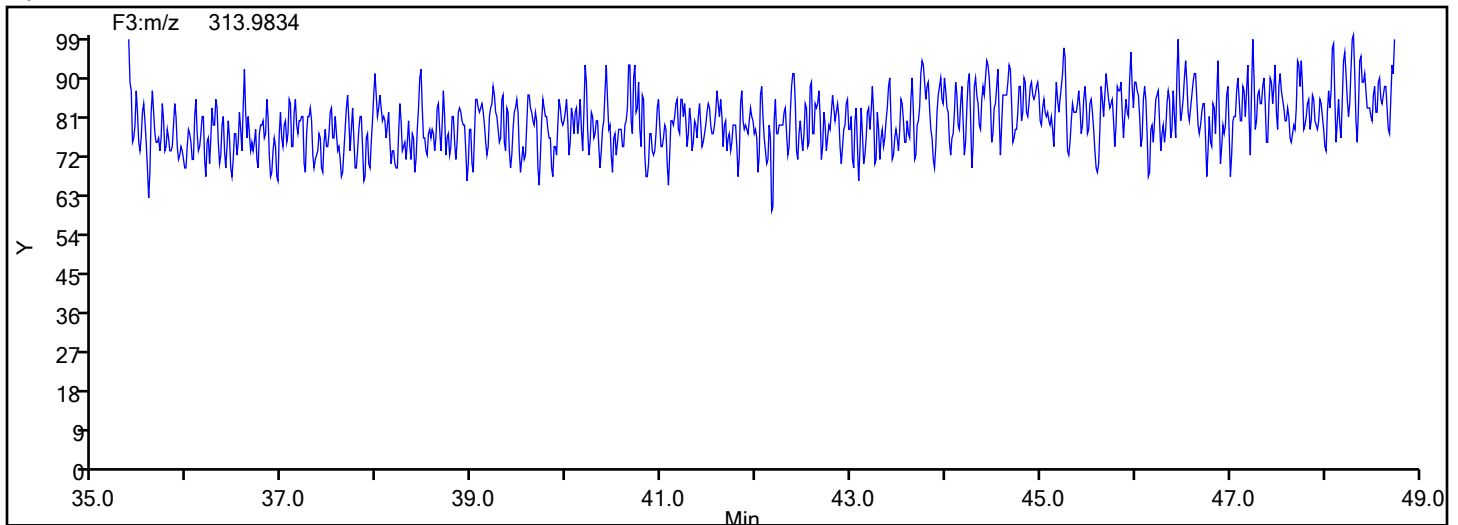


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

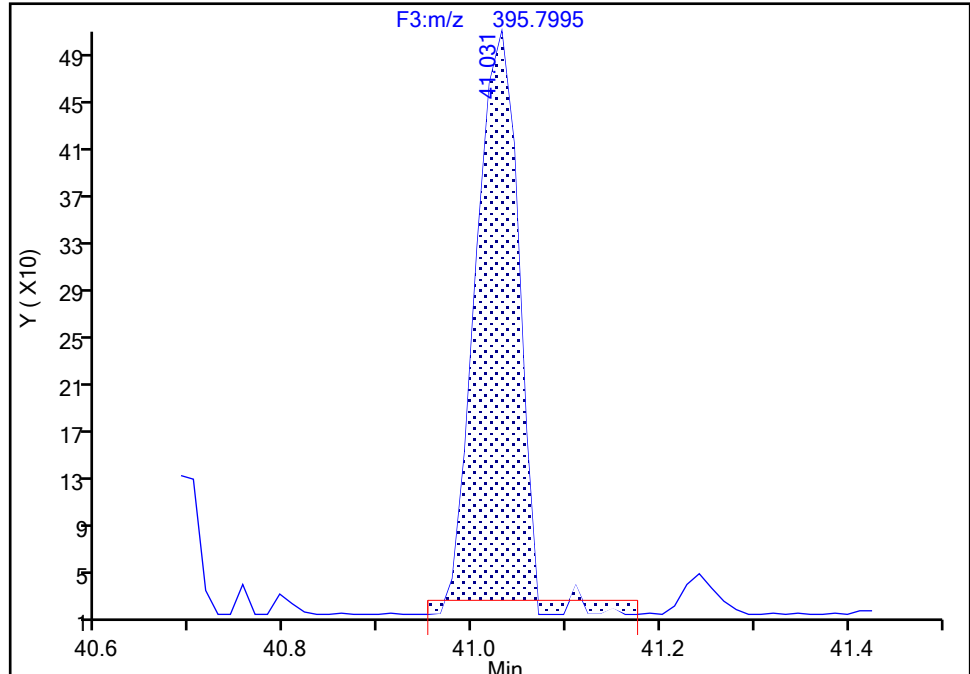
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Injection Date: 28-Jun-2024 15:51:00 Instrument ID: D2D  
Lims ID: 140-36940-A-5-C Lab Sample ID: 140-36940-5  
Client ID: M23 - EPN 4-1\IN-701-RUN 5-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-187, CAS: 52663-68-0**

Signal: 2

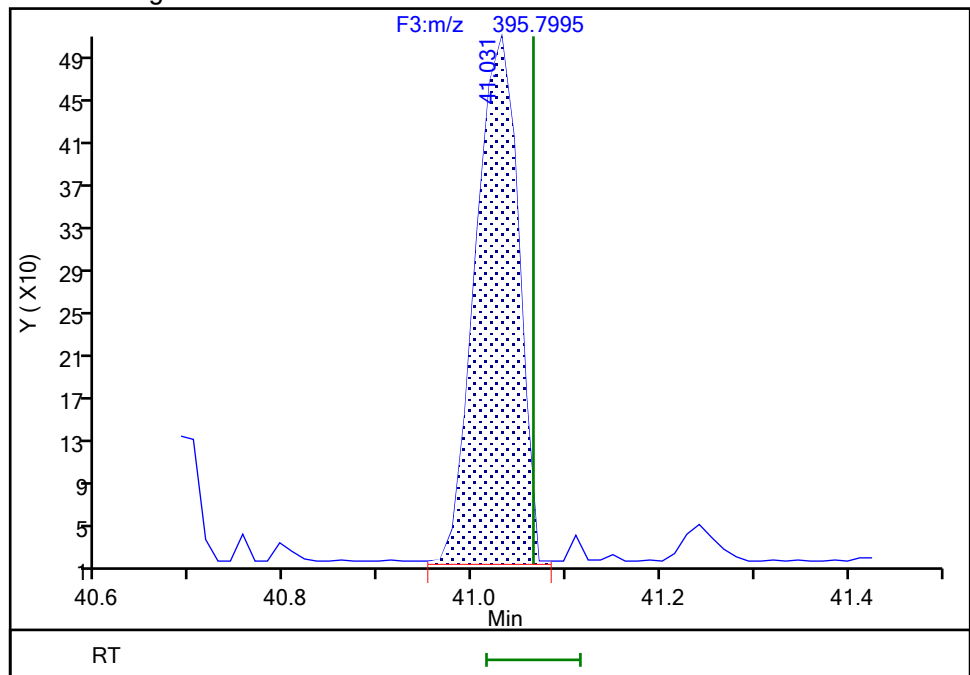
RT: 41.03  
Area: 1403  
Amount: 0.042416  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.03  
Area: 1554  
Amount: 0.044724  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 17:34:50 -04:00:00 (UTC)

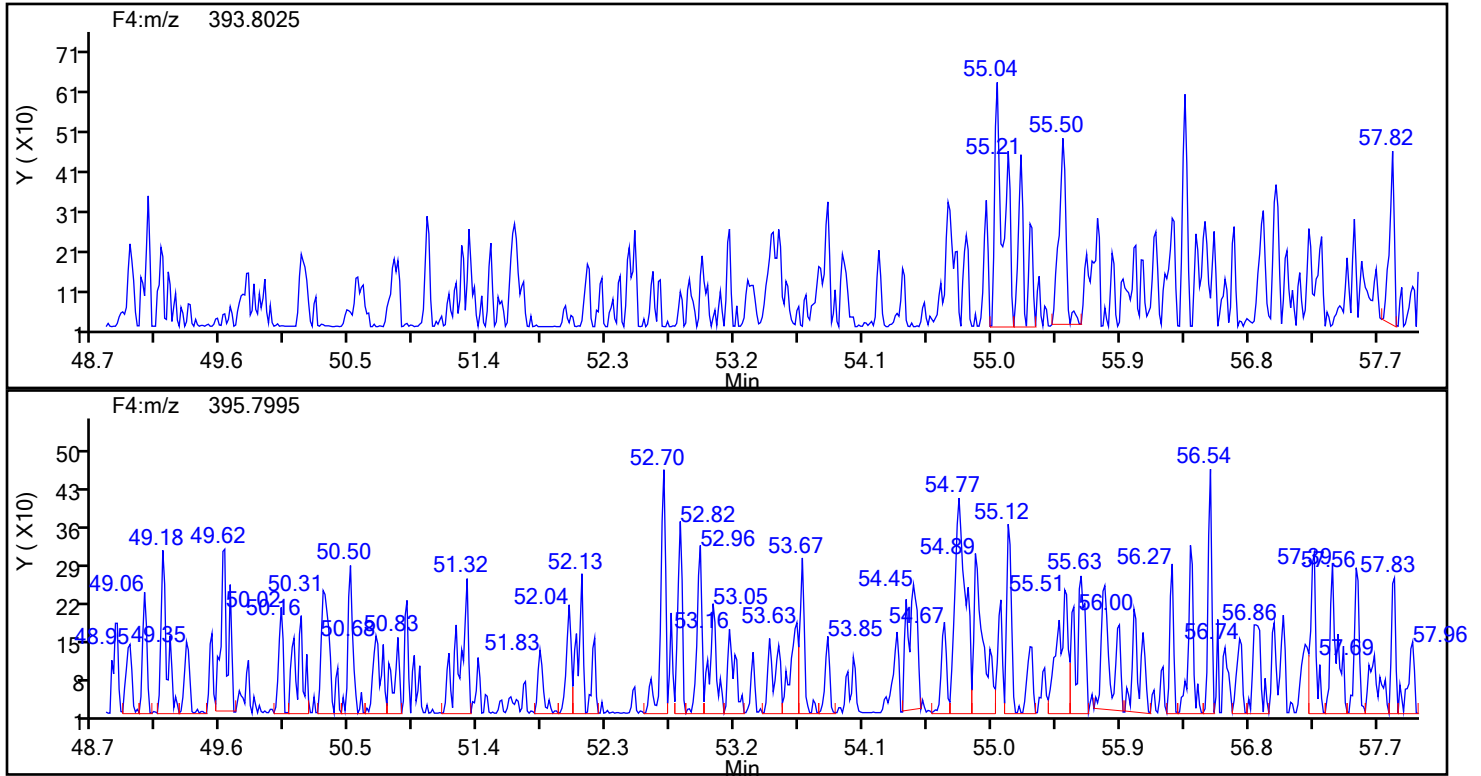
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

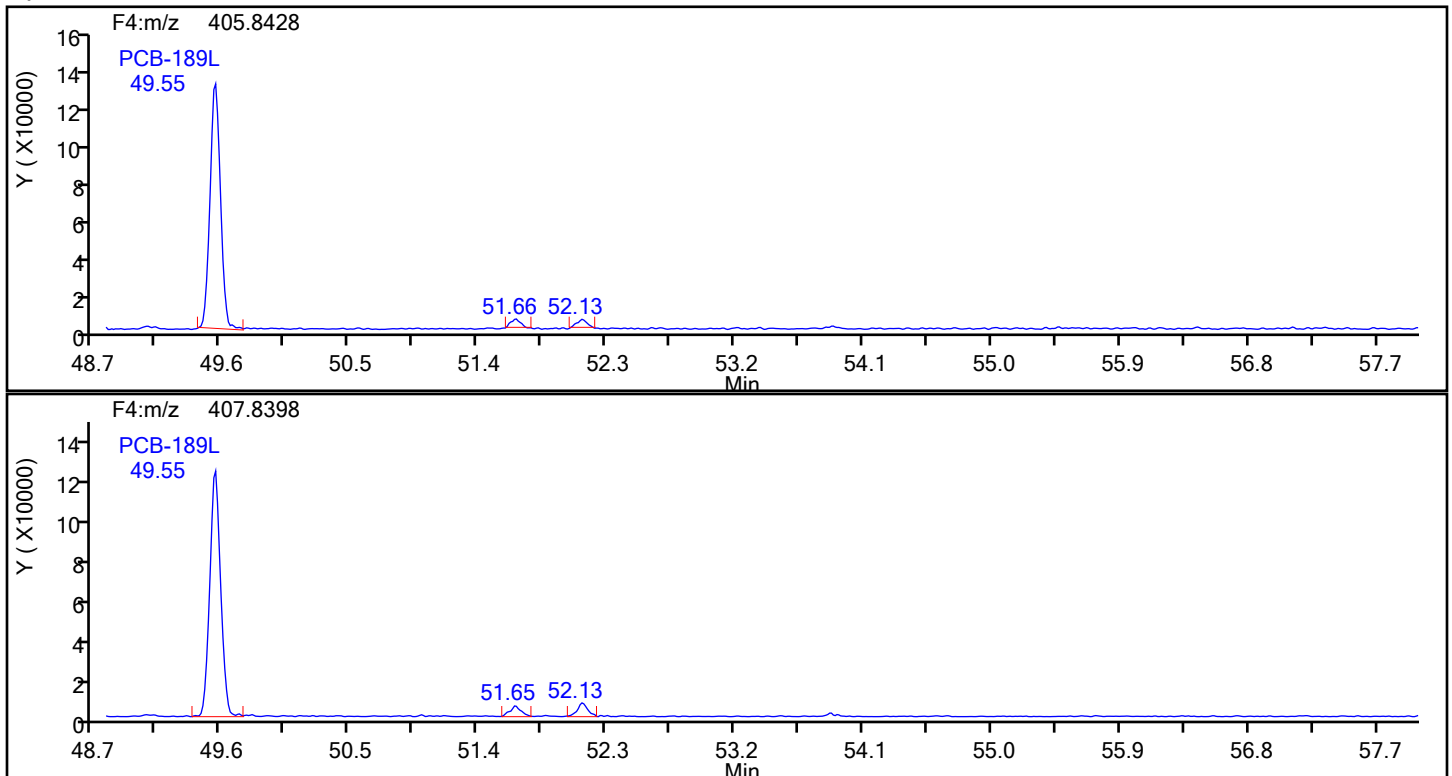


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

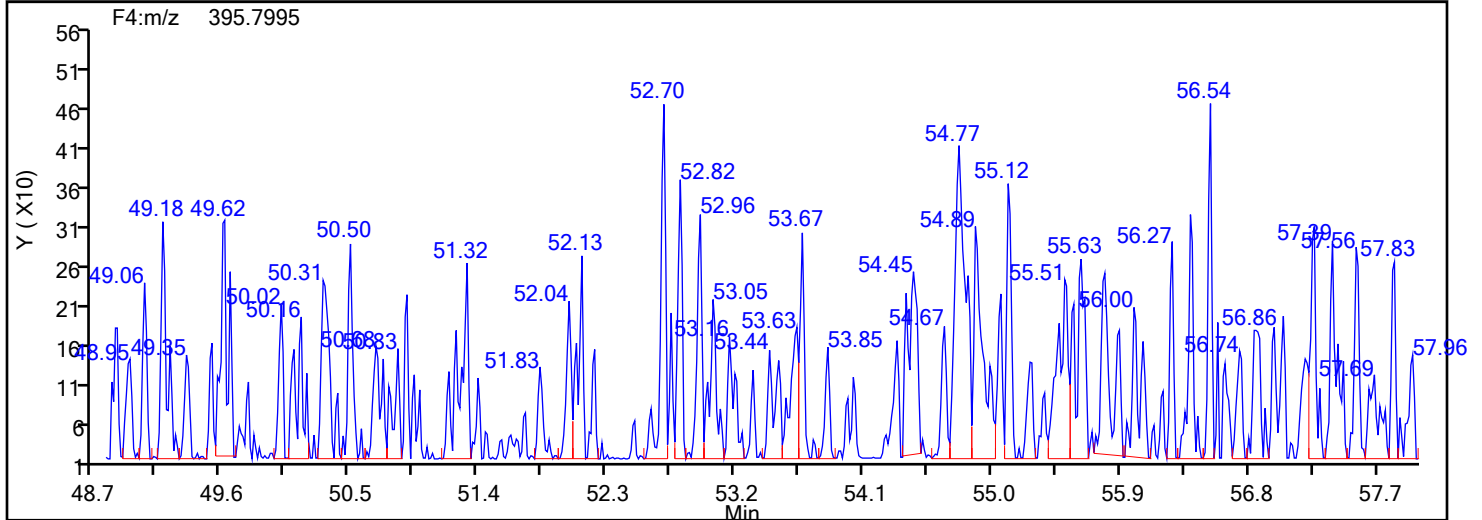
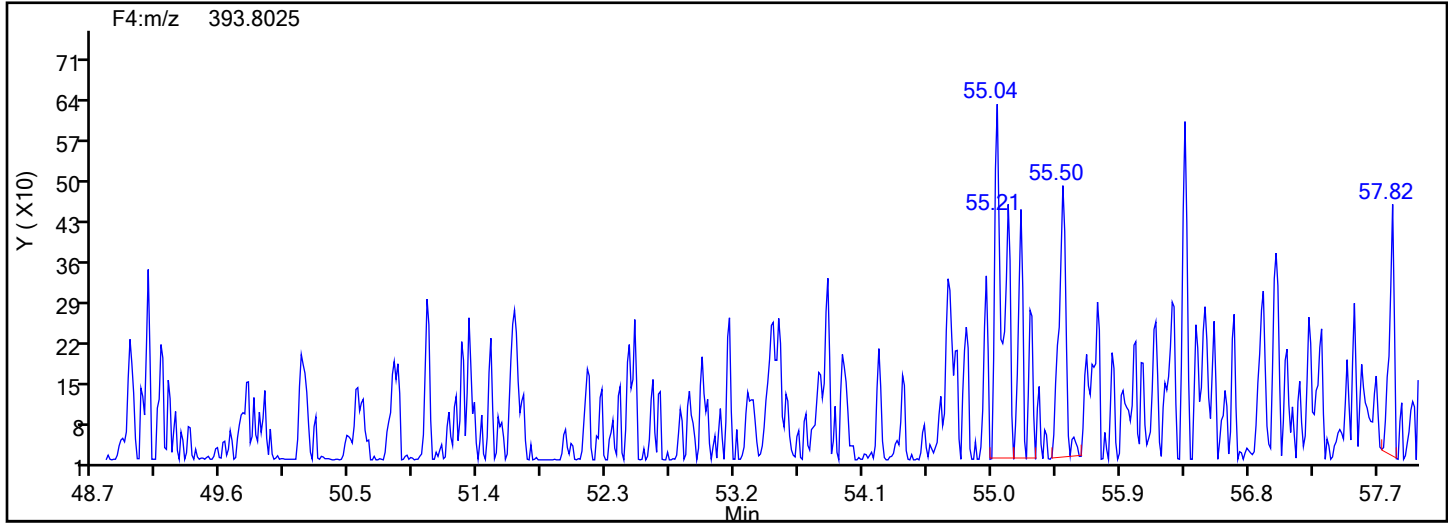


## HpPCB F4 Standards

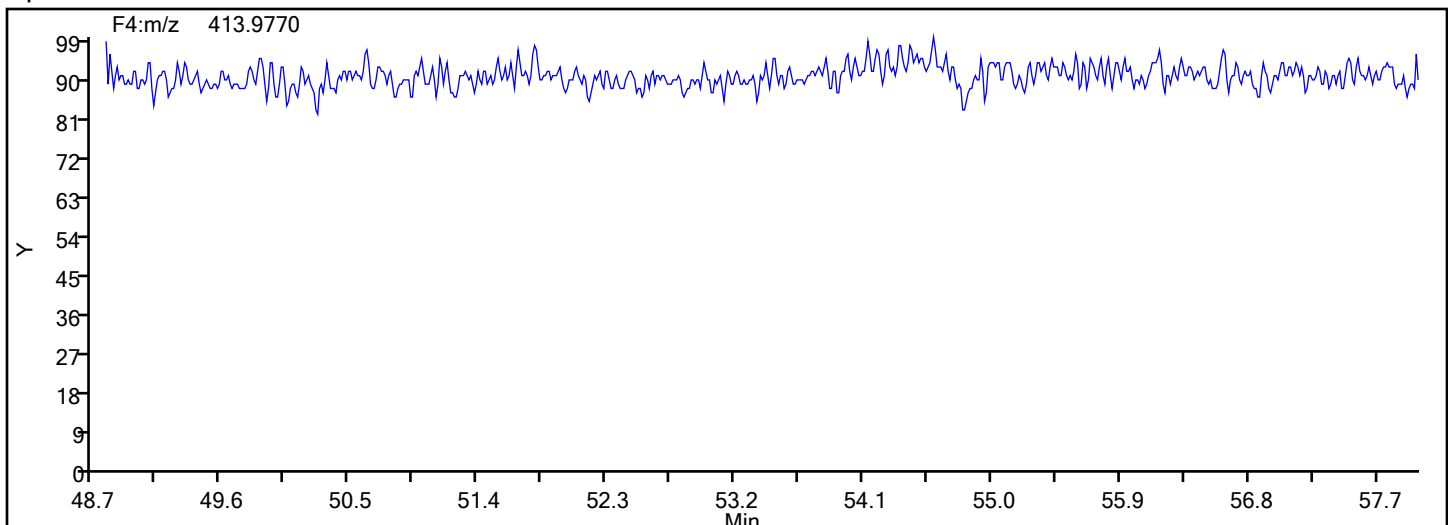


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

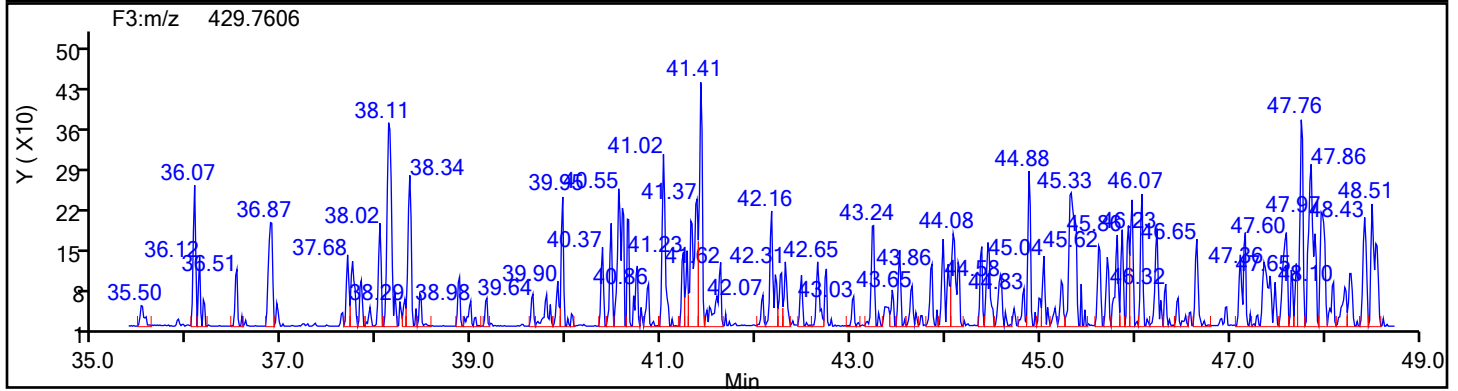
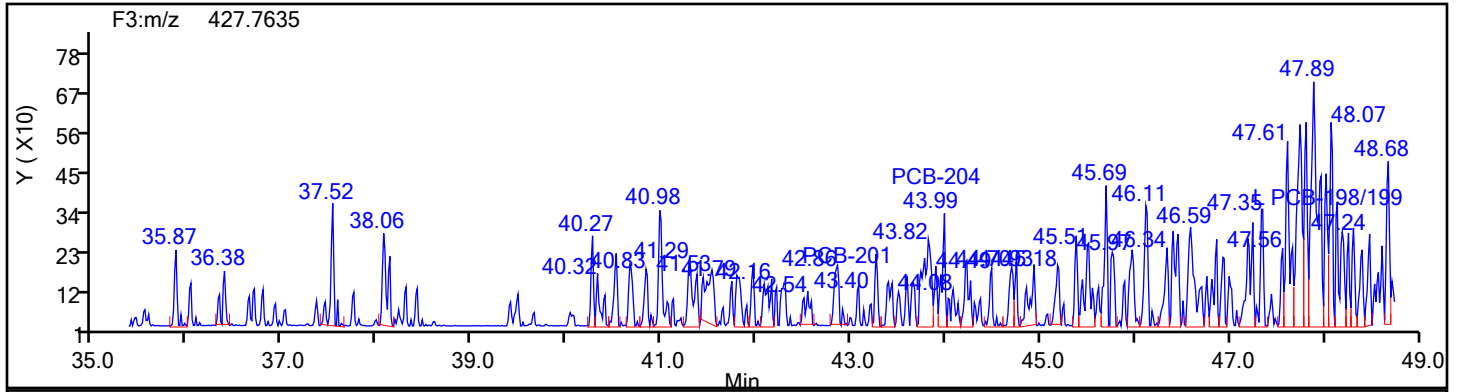


## HpPCB F4 Lock Mass

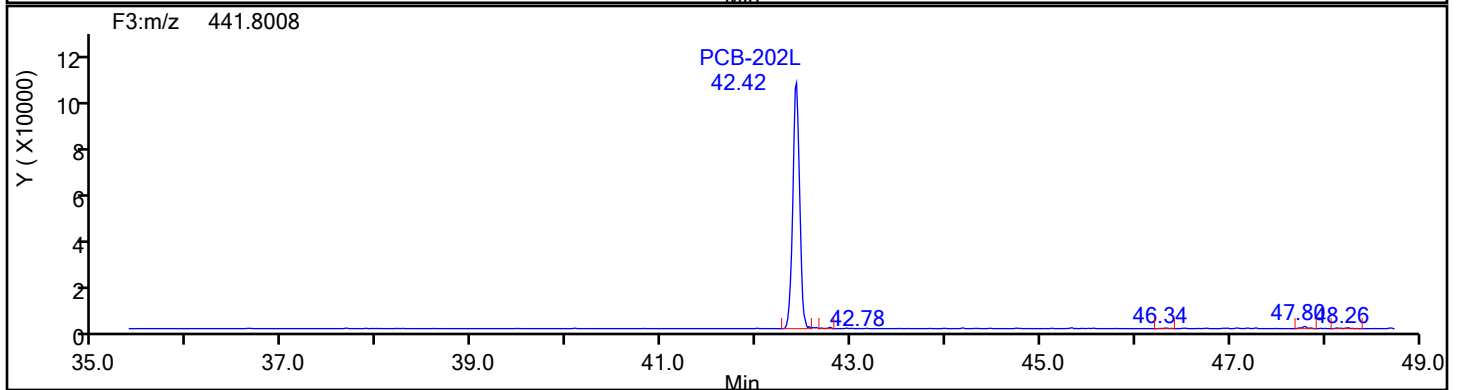
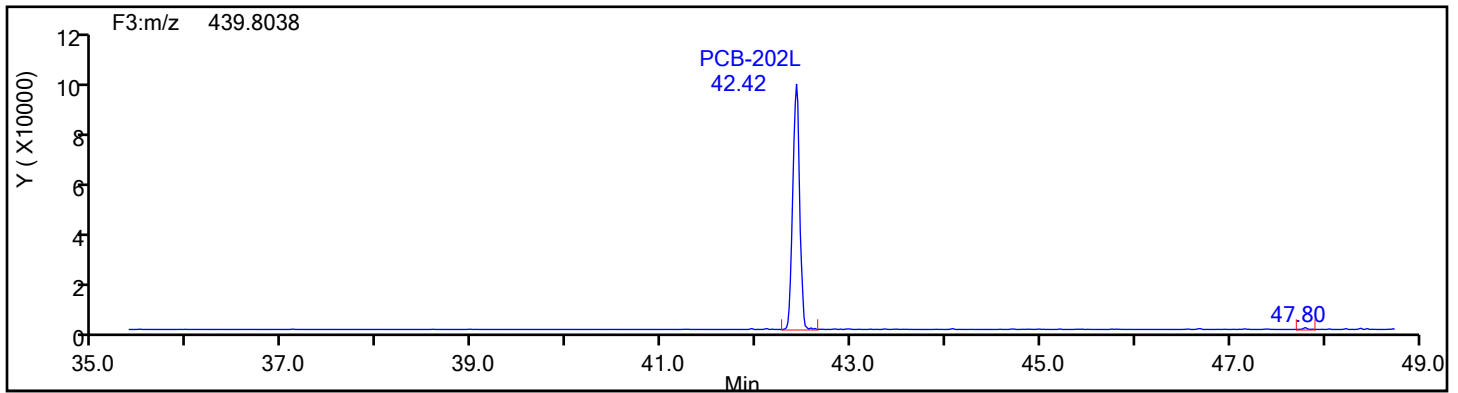


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

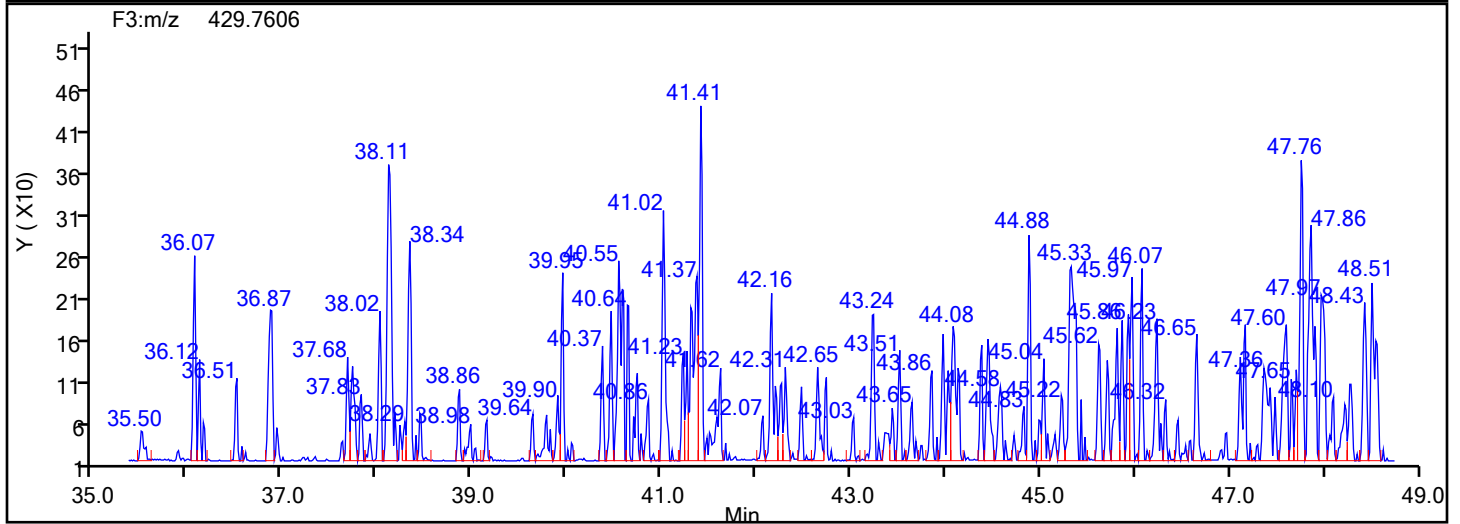
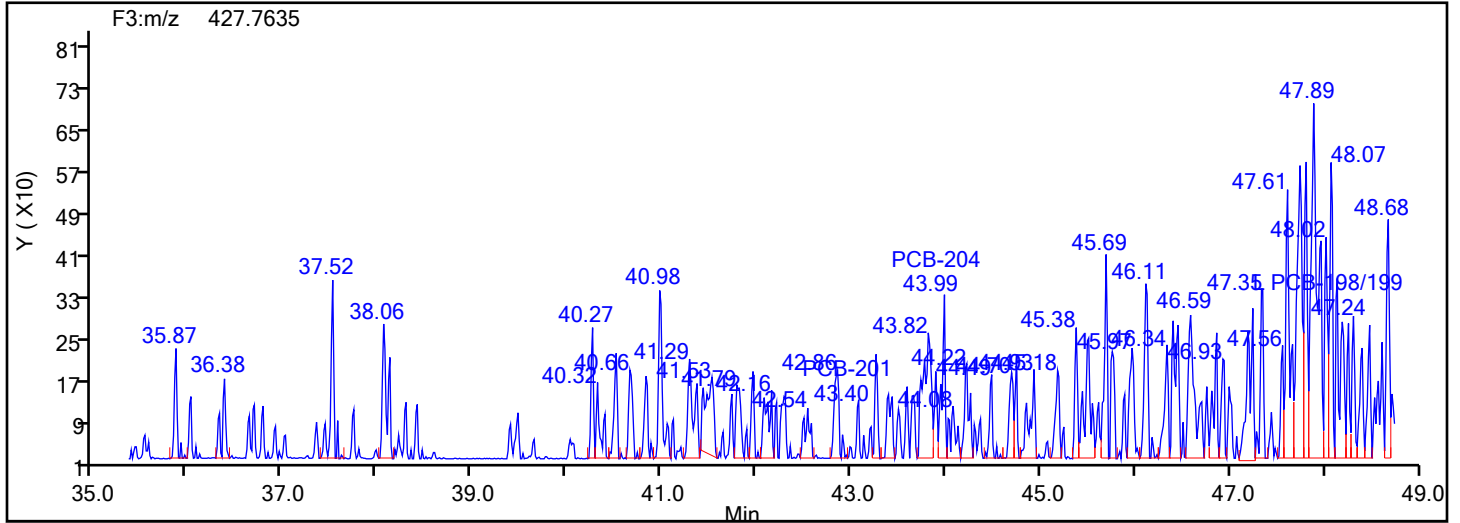


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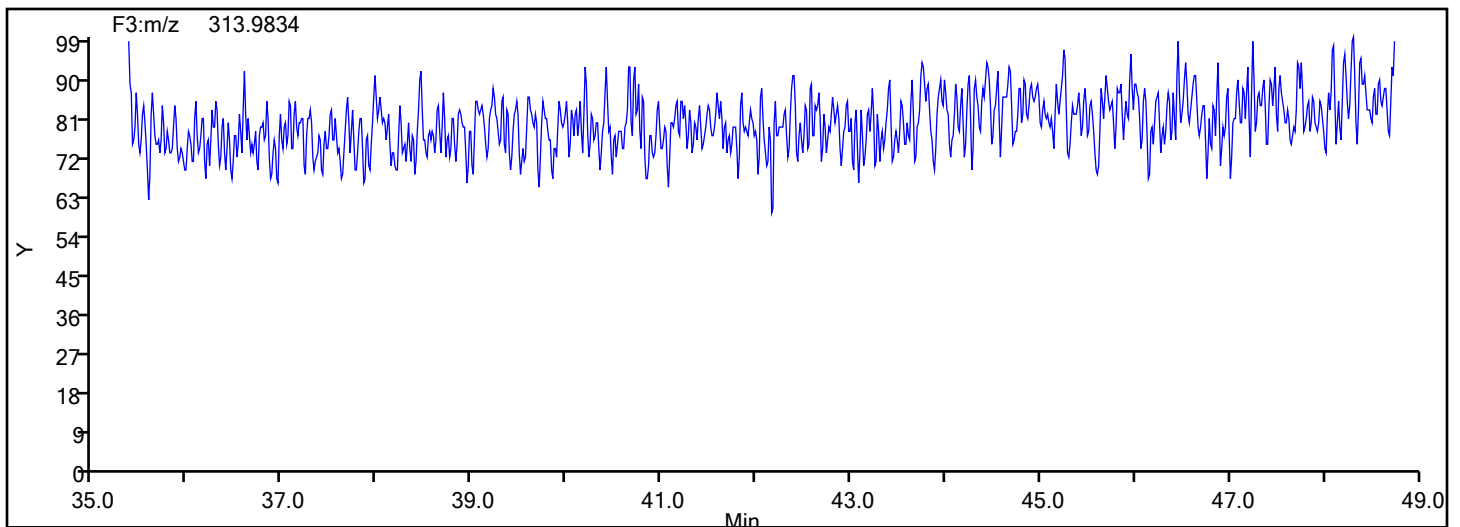


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

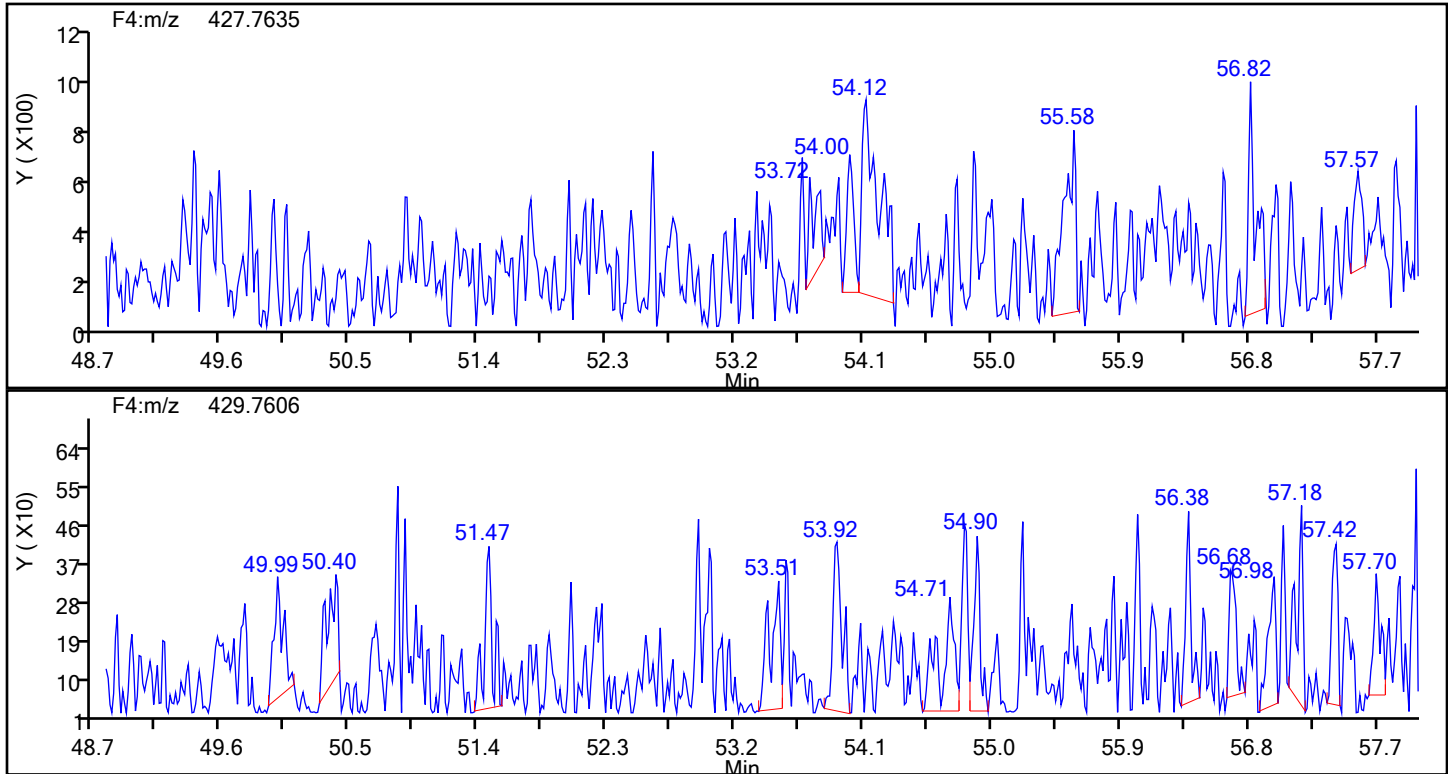


## OcPCB F3 Lock Mass

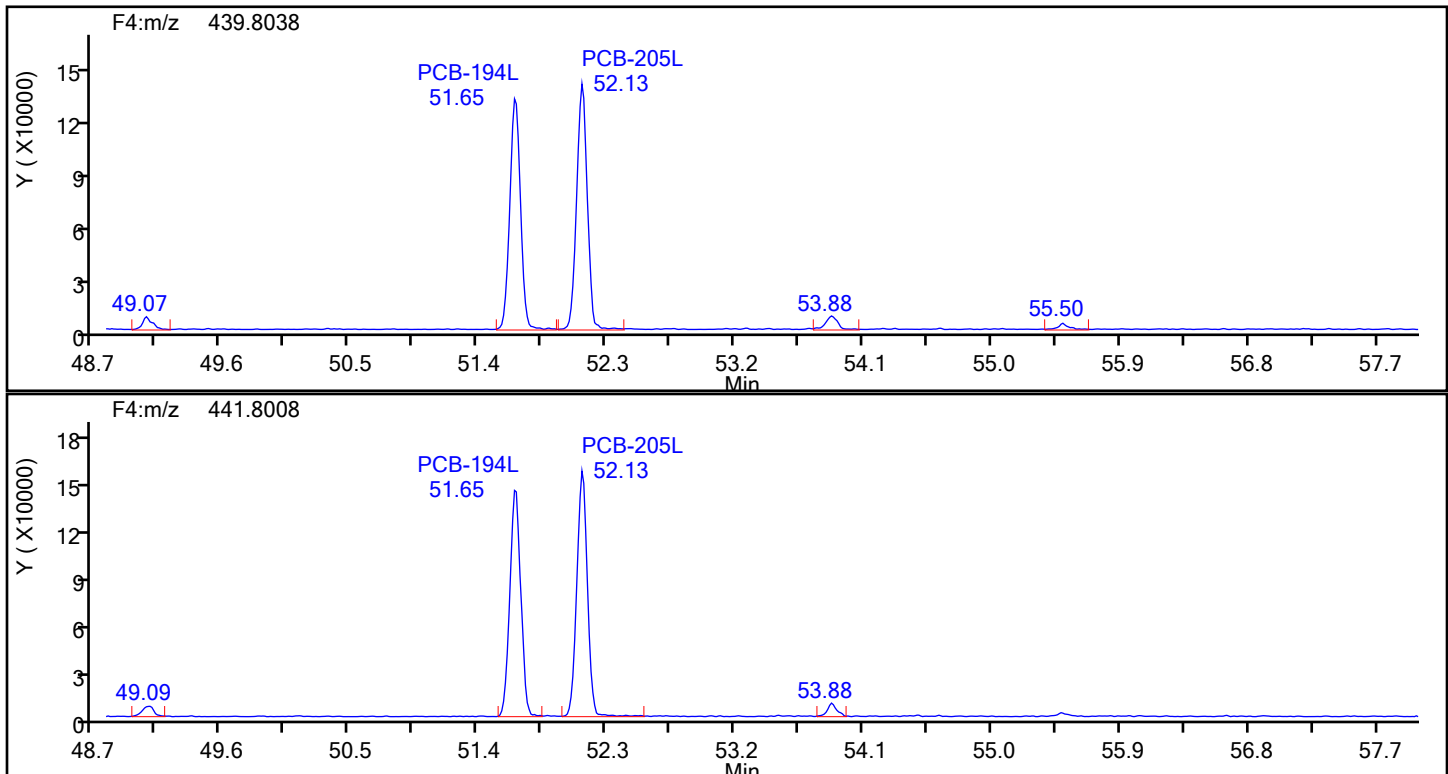


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Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

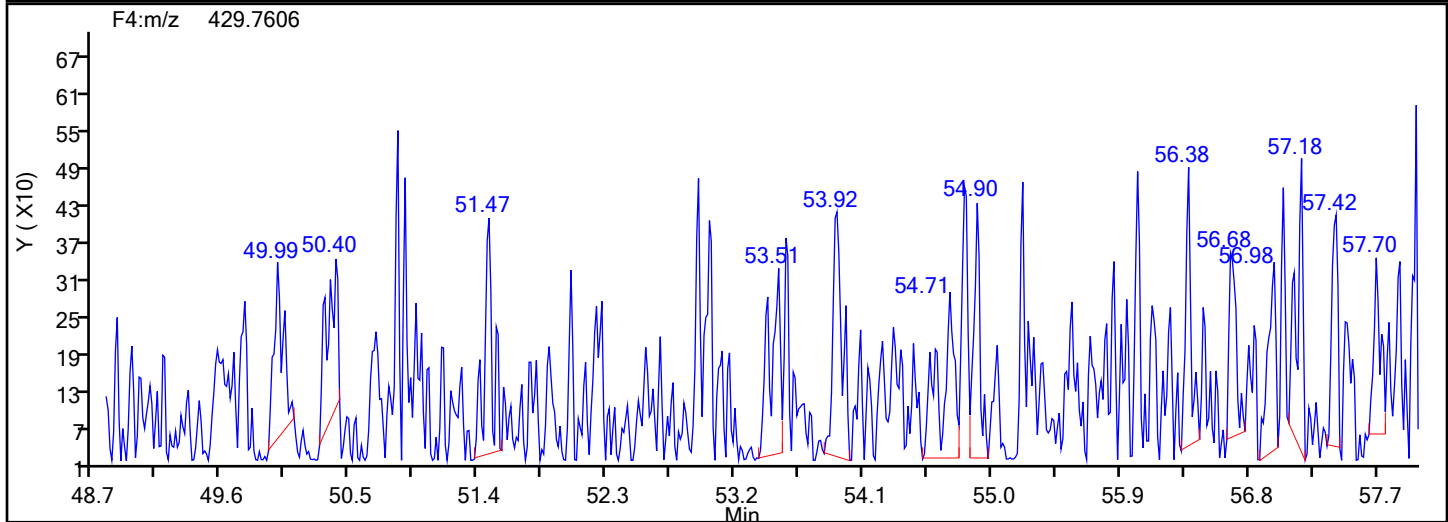
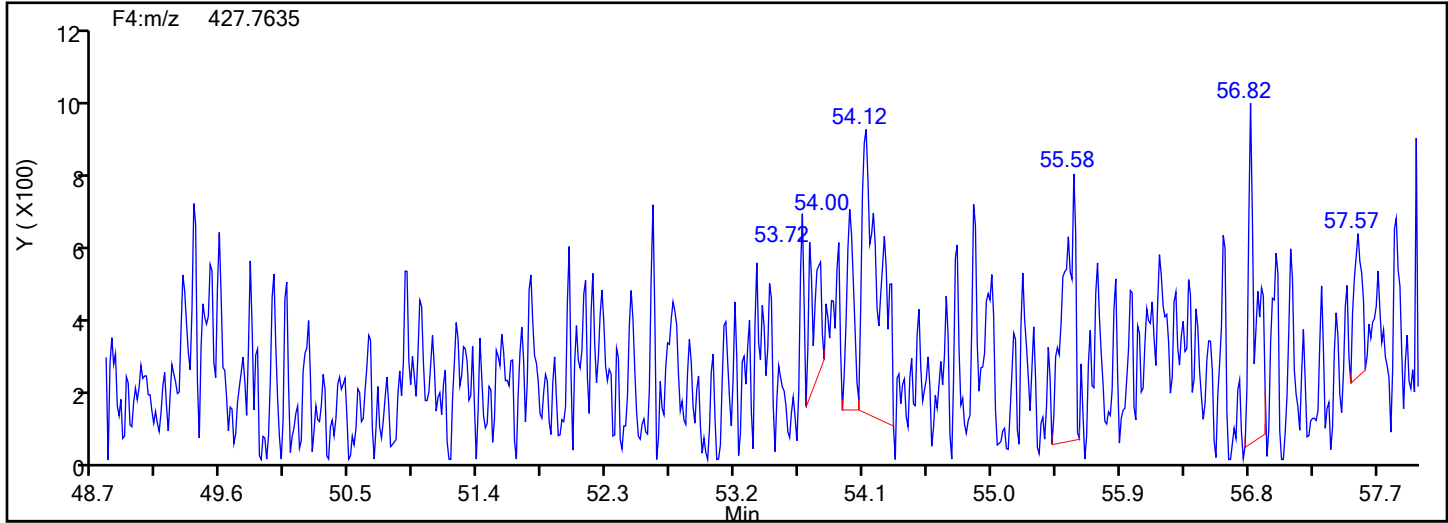


## OcPCB F4 Standards

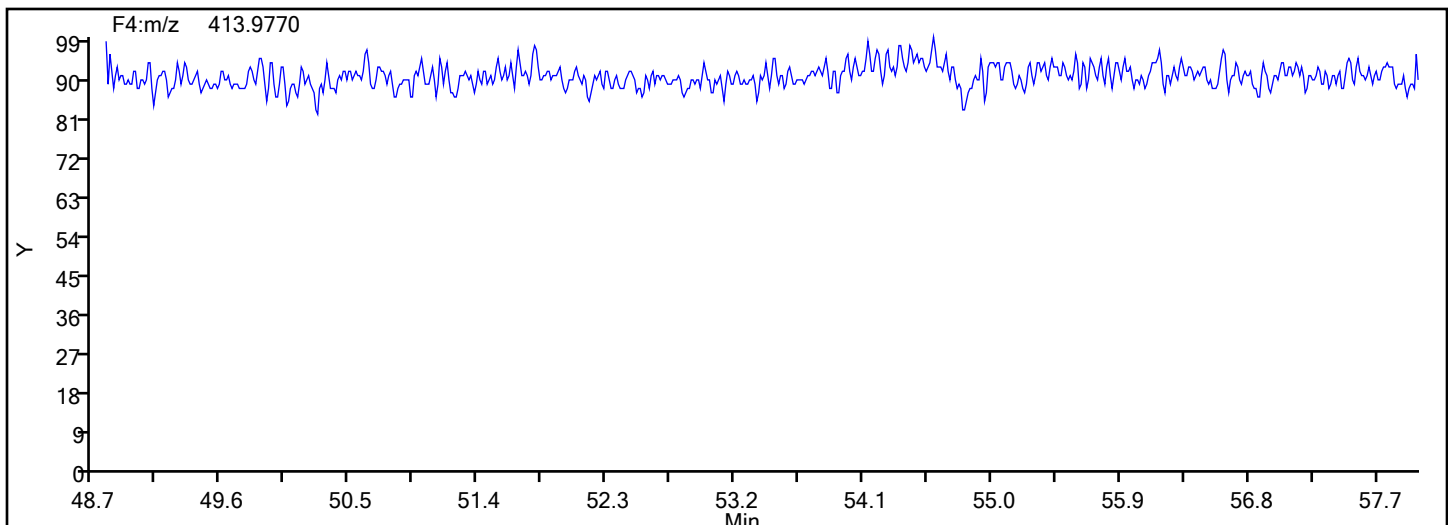


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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
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Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

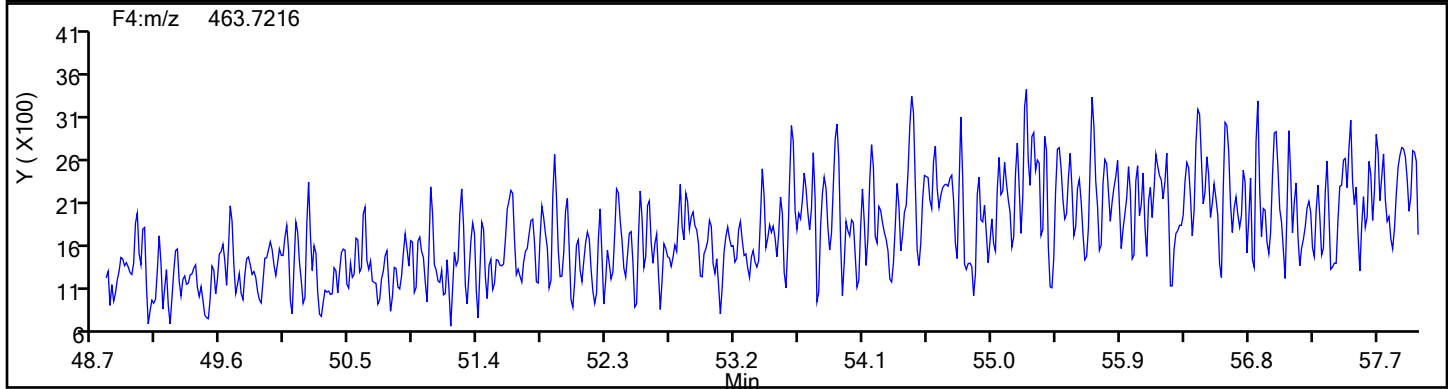
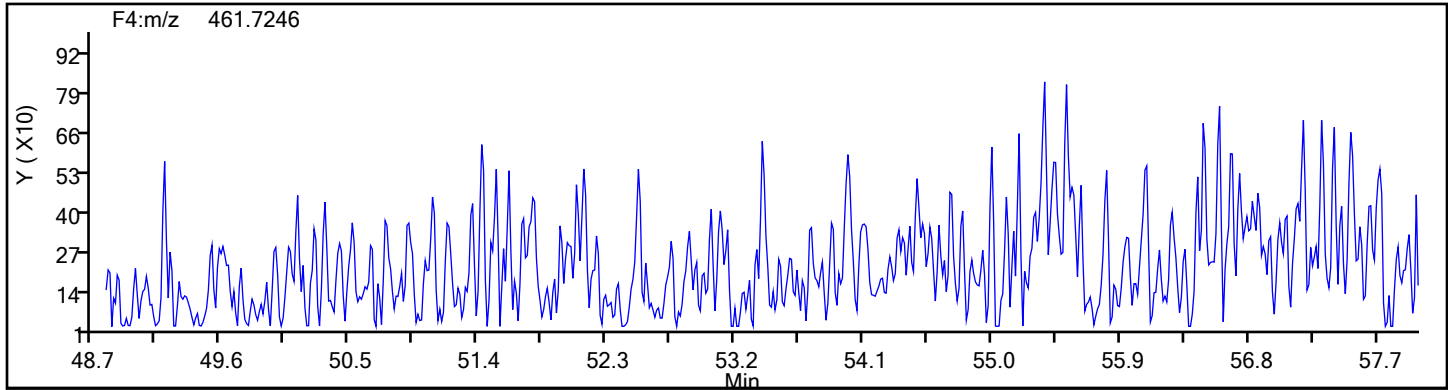


## OcPCB F4 Lock Mass

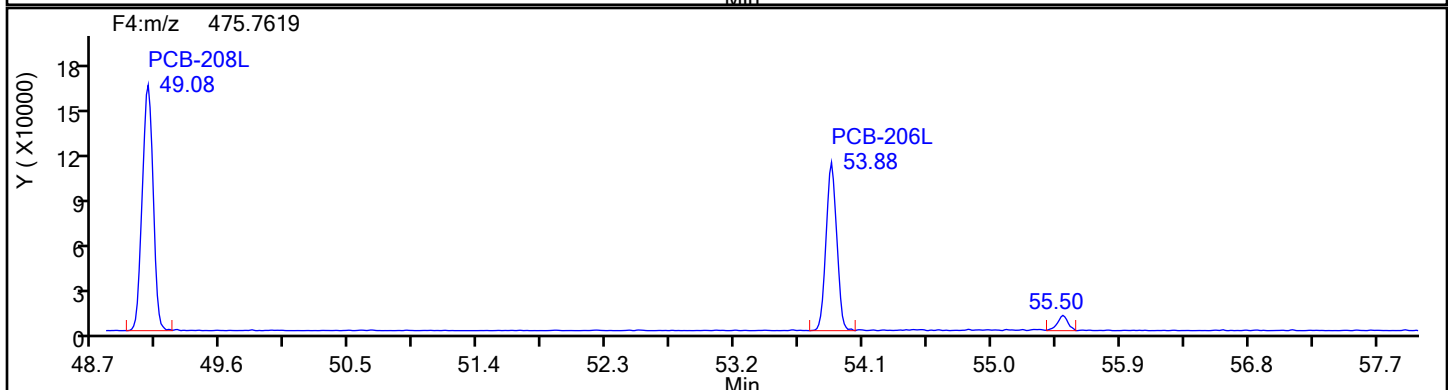
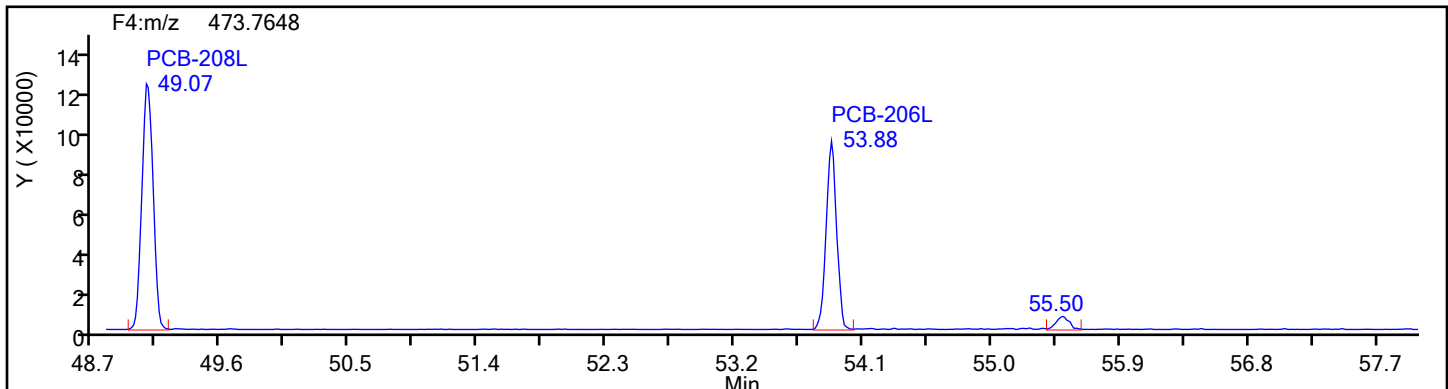


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

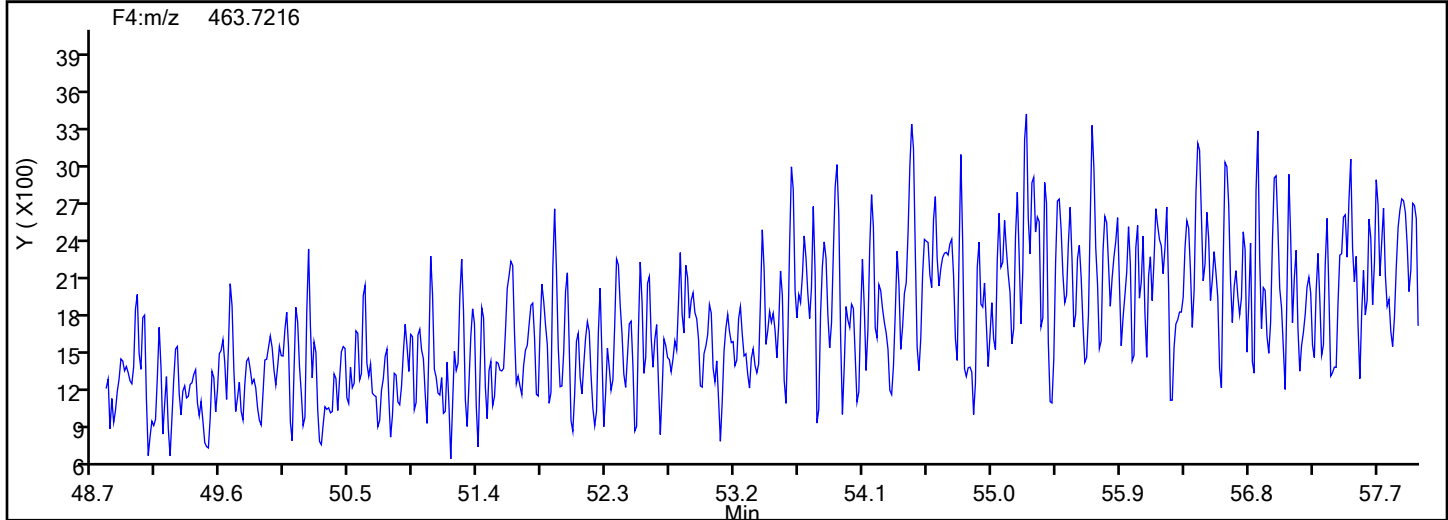
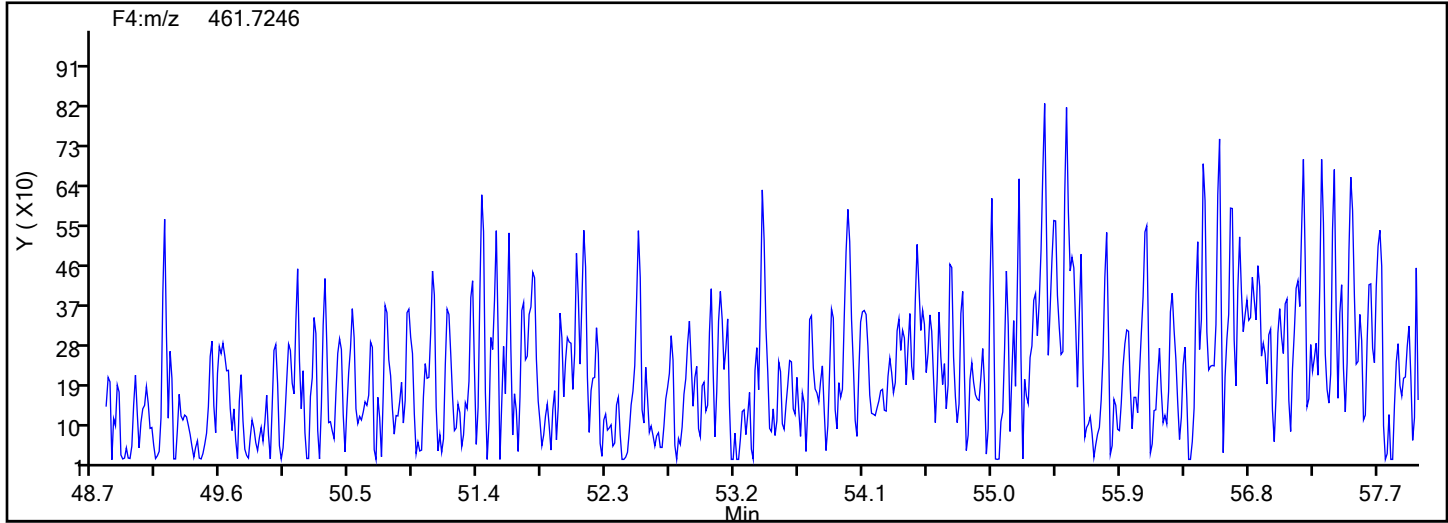


## NoPCB F4 Standards

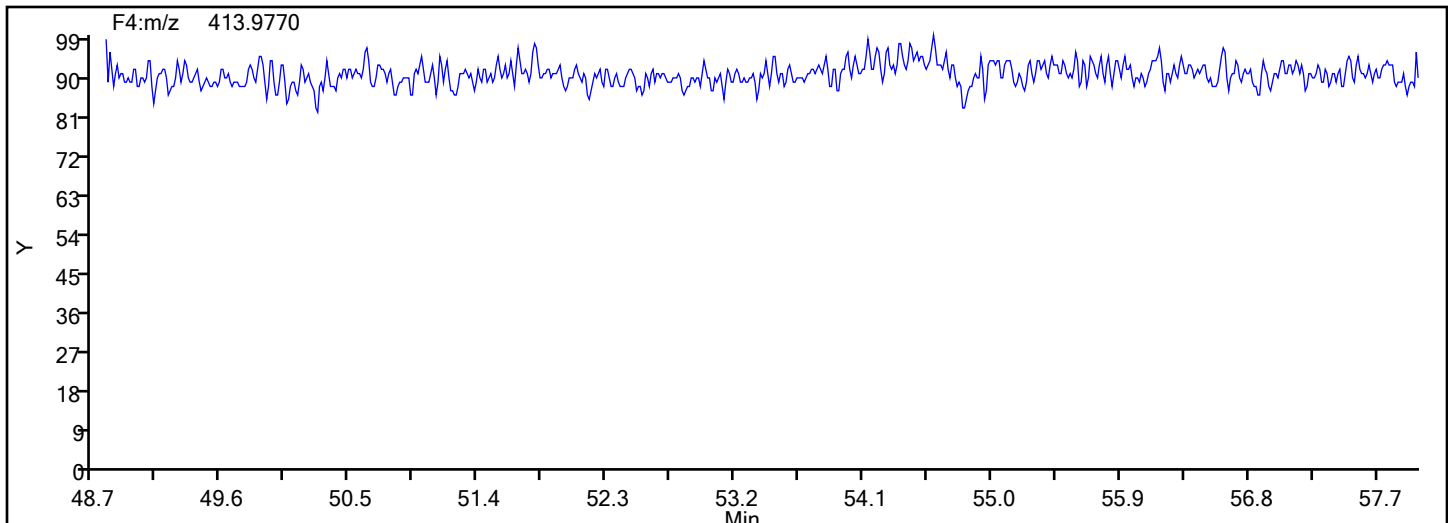


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



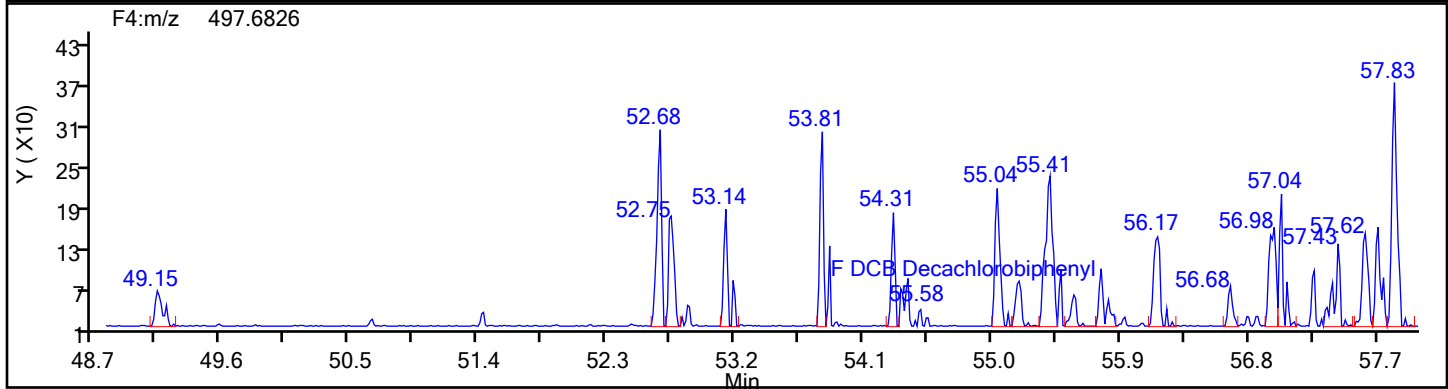
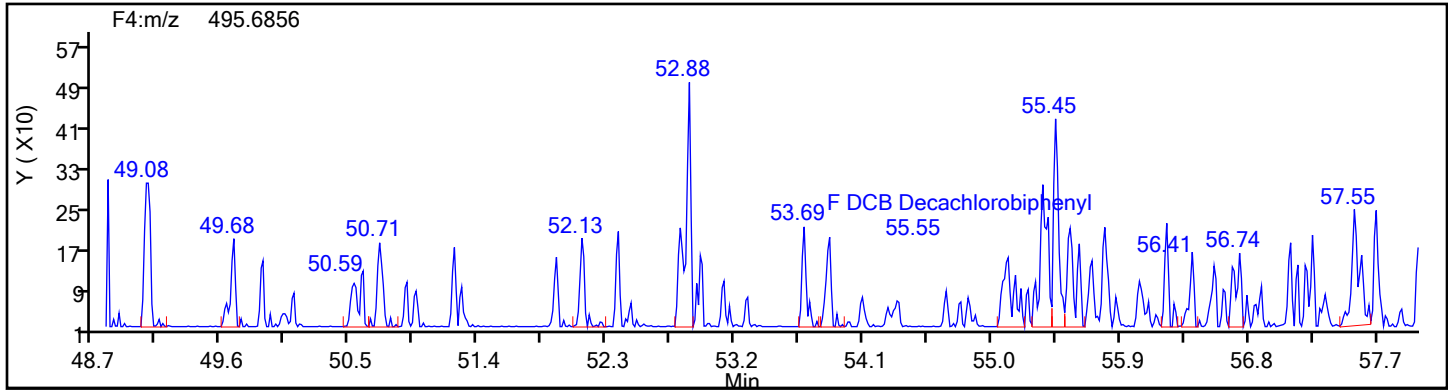
## NoPCB F4 Lock Mass



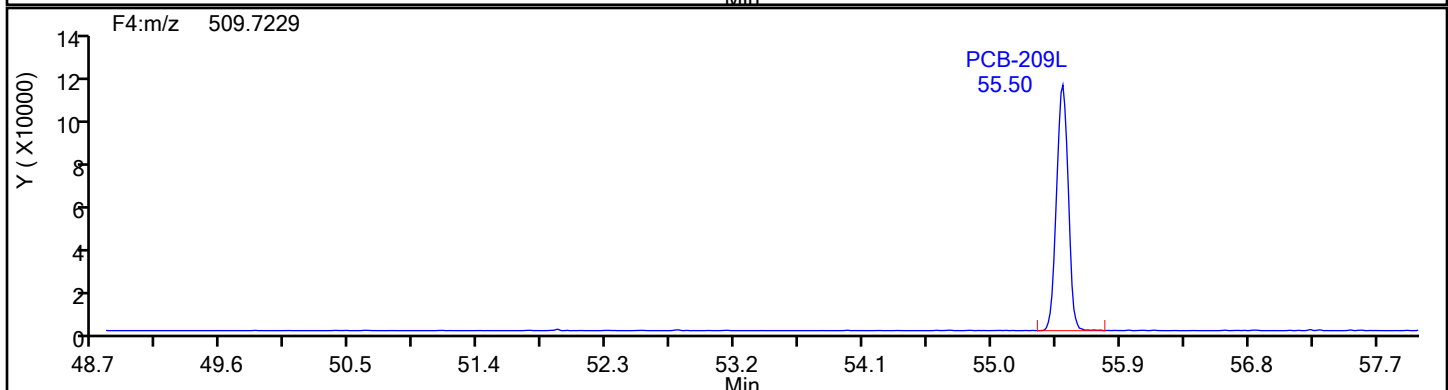
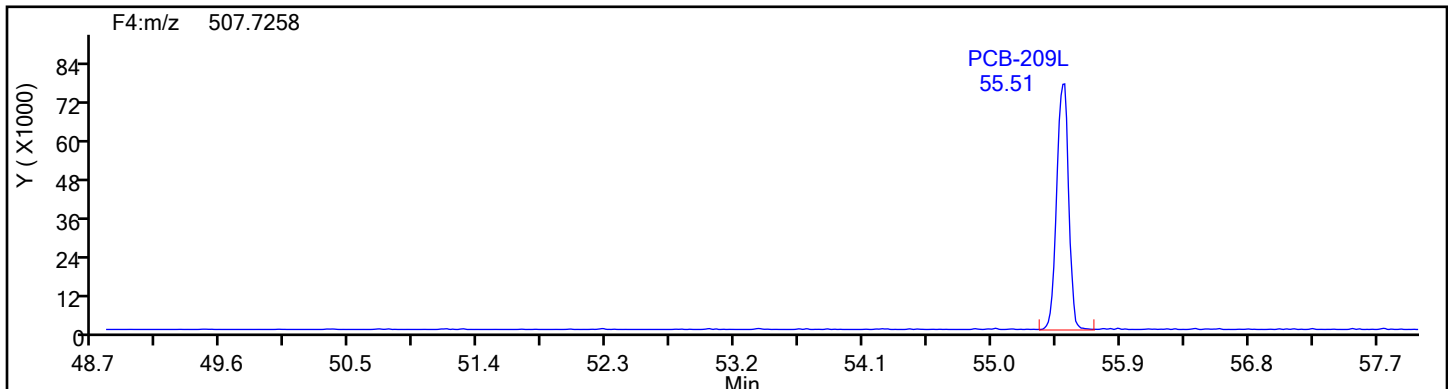


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1\IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4

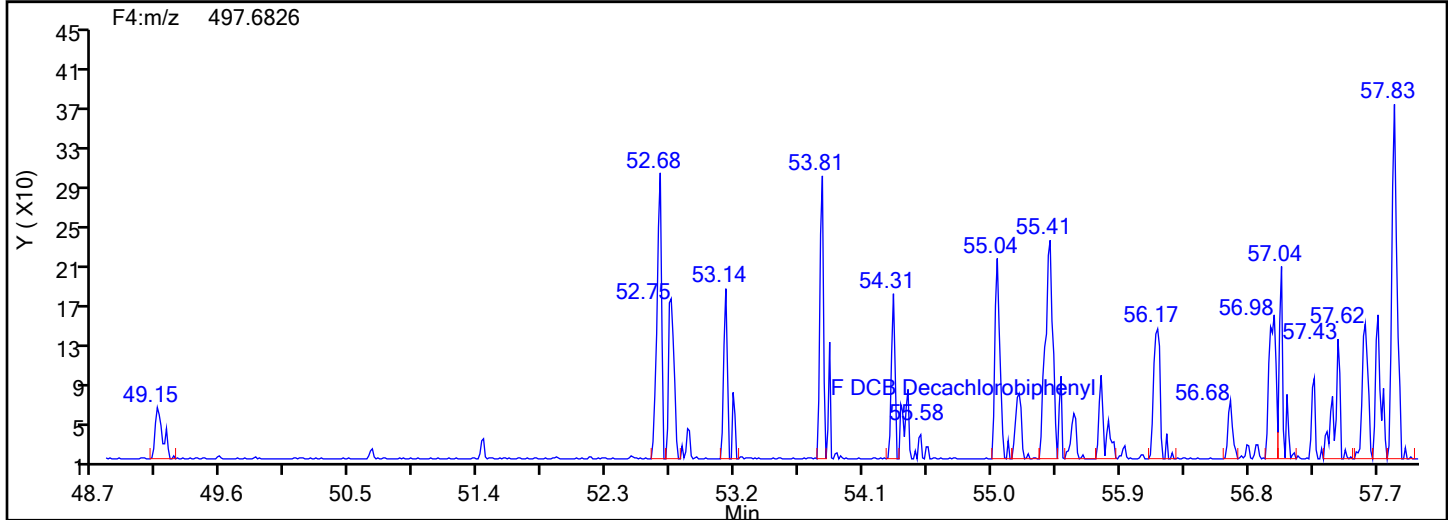
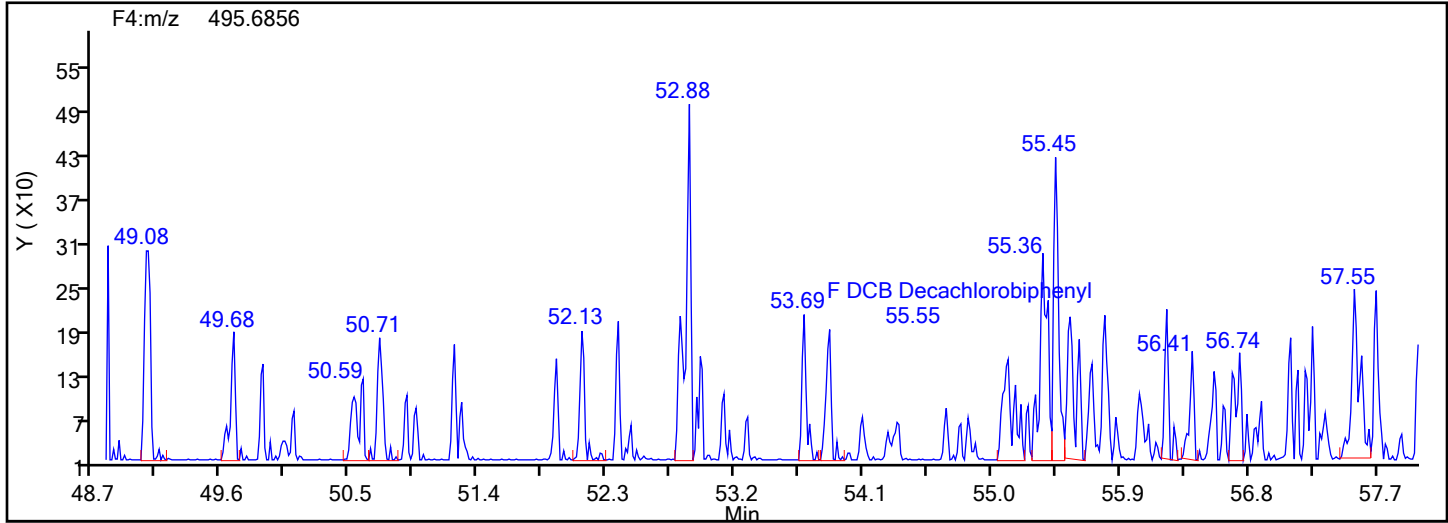


## DePCB F4 Standards

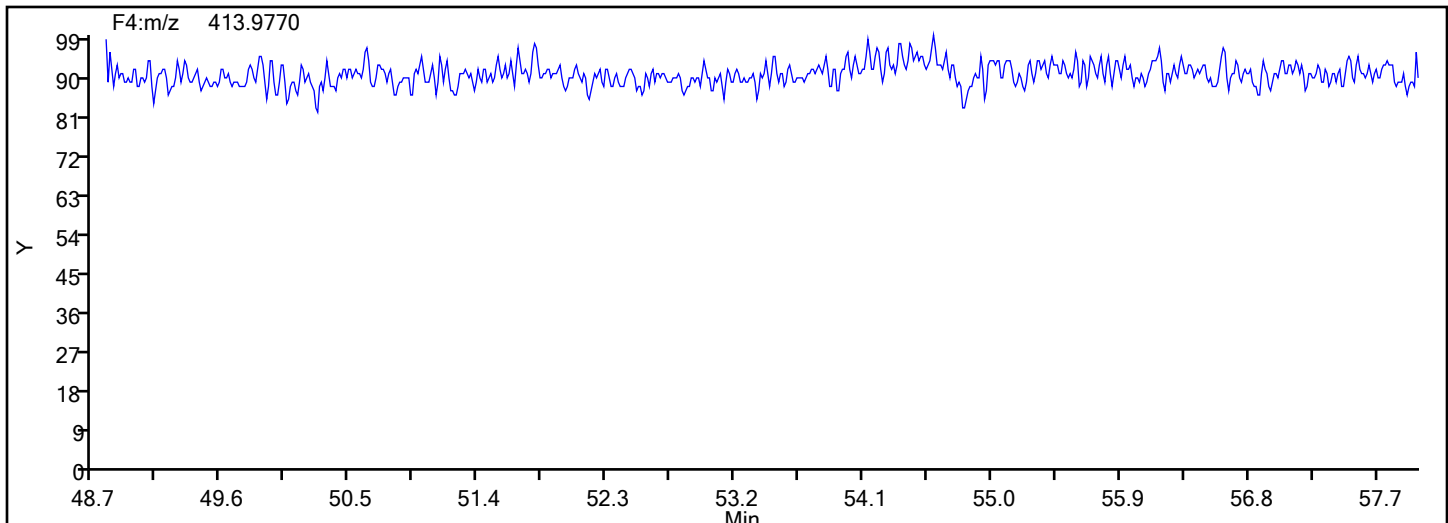


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-5-c5x.d  
Injection Date: 28-Jun-2024 15:51:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Worklist#: 88219 Sample Line#: 9  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-5-c5x.d  
Lims ID: 140-36940-A-5-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 5-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 15:51:00 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-009  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 17:37:52 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 17:37:52

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	6.24	93.64
PCB-28L	100.0	16.8	83.97
PCB-79L	33.3	6.37	95.57
PCB-95L	33.3	6.98	104.72
PCB-111L	100.0	17.7	88.57
PCB-153L	33.3	5.92	88.73
PCB-178L	100.0	17.5	87.73

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN 6-COMBINED</u>	Lab Sample ID: <u>140-36940-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-6-c5x.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/17/2024 16:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 16:52</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.857	J B	3.00	0.660	0.102
37680-65-2	PCB-18	0.139	J S q C B	3.00	1.43	0.00988
7012-37-5	PCB-28	0.140	J q C20 B	3.00	1.26	0.0139
41464-39-5	PCB-44	1.65	J C	4.50	1.95	0.0518
35693-99-3	PCB-52	0.123	J q	1.50	0.660	0.0548
32598-10-0	PCB-66	ND		1.50	0.600	0.0401
32598-13-3	PCB-77	ND		1.50	0.630	0.0472
70362-50-4	PCB-81	ND		1.50	0.480	0.0460
37680-73-2	PCB-101	0.0690	J q C90	4.50	1.95	0.0112
32598-14-4	PCB-105	ND		1.50	0.510	0.0304
74472-37-0	PCB-114	ND		1.50	0.825	0.0314
31508-00-6	PCB-118	ND		1.50	0.915	0.0288
65510-44-3	PCB-123	ND		1.50	0.855	0.0320
57465-28-8	PCB-126	ND		1.50	0.615	0.0354
38380-07-3	PCB-128	ND	C	3.00	1.02	0.0211
35065-28-2	PCB-138	0.0710	J q C129 B	6.00	2.55	0.0219
35065-27-1	PCB-153	0.0632	J C	3.00	1.25	0.0190
38380-08-4	PCB-156	ND	C	3.00	1.28	0.0232
69782-90-7	PCB-157	ND	C156	3.00	1.28	0.0232
52663-72-6	PCB-167	ND		1.50	0.900	0.0151
32774-16-6	PCB-169	ND		1.50	0.615	0.0154
35065-30-6	PCB-170	ND		1.50	0.660	0.00452
35065-29-3	PCB-180	0.0105	J q C B	3.00	1.02	0.00365
52663-68-0	PCB-187	ND		1.50	0.630	0.00387
39635-31-9	PCB-189	ND		1.50	0.735	0.0113
52663-78-2	PCB-195	ND		1.50	0.795	0.0363

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-6  
6-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-6-c5x.d  
Analysis Method: 23 Date Collected: 05/17/2024 16:30  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 16:52  
Con. Extract Vol.: 30 (mL) Dilution Factor: 5  
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88219 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
40186-72-9	PCB-206	ND		1.50	0.855	0.0995
2051-24-3	PCB-209	ND		1.50	0.690	0.00308

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>6-COMBINED</u>	Lab Sample ID: <u>140-36940-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-6-c5x.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/17/2024 16:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 16:52</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	53		20-145
208263-77-8	PCB-3L	62		20-145
234432-86-1	PCB-4L	65		20-145
208263-67-6	PCB-15L	79		20-145
234432-87-2	PCB-19L	69		20-145
208263-79-0	PCB-37L	78		20-145
234432-88-3	PCB-54L	82		20-145
105600-23-5	PCB-77L	83		20-145
208461-24-9	PCB-81L	84		20-145
234432-89-4	PCB-104L	84		20-145
208263-62-1	PCB-105L	88		20-145
208263-63-2	PCB-114L	87		20-145
104130-40-7	PCB-118L	88		20-145
208263-64-3	PCB-123L	88		20-145
208263-65-4	PCB-126L	88		20-145
234432-90-7	PCB-155L	83		20-145
208263-68-7	PCB-156L	88	C	20-145
235416-30-5	PCB-157L	88	C156	20-145
208263-69-8	PCB-167L	87		20-145
208263-70-1	PCB-169L	88		20-145
160901-80-4	PCB-170L	90		20-145
234432-91-8	PCB-188L	86		20-145
208263-73-4	PCB-189L	59		20-145
105600-26-8	PCB-202L	86		20-145
234446-64-1	PCB-205L	87		20-145
208263-75-6	PCB-206L	102		20-145
234432-92-9	PCB-208L	106		20-145
105600-27-9	PCB-209L	109		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>6-COMBINED</u>	Lab Sample ID: <u>140-36940-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-6-c5x.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/17/2024 16:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 16:52</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	82		20-130
235416-29-2	PCB-111L	87		20-130
232919-67-4	PCB-178L	88		20-130
STL01600	PCB-8L	89	q	70-130
STL01603	PCB-79L	103		70-130
STL01604	PCB-95L	106		70-130
STL01606	PCB-153L	97		70-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-6-c5x.d  
Lims ID: 140-36940-A-6-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 16:52:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-010  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 11:34:40 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: P0IK

Date: 29-Jun-2024 11:34:40

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					249.6	249.6	0.1614	0.1614		
D PCB-1L	11:39	1565758	3.17	1.6108	10.7	10.7	0.1699	0.1699	53.44	
D PCB-3L	13:47	1777930	3.05	1.5891	12.3	12.3	0.1722	0.1722	61.51	
PCB-1	11:39	2400739	2.94	1.2191	25.2	25.2	0.1544	0.1544		
PCB-2	13:38	12766868	2.83	1.1805	129.4	129.4	0.1648	0.1648		
PCB-3	13:48	10320732	2.84	1.2206	95.1	95.1	0.1650	0.1650		
S Total Dichlorobiphenyls					22.4	22.0	0.0786	0.0786		RQ
D PCB-4L	14:03	770968	1.58	0.6475	13.1	13.1	0.1834	0.1834	65.46	
* PCB-9L	16:00	1818763	1.65		20.0	20.0				
\$ PCB-8L	16:51	418158	1.56	1.2066	6.894	5.953	0.1665	0.1665	103	RQ
D PCB-15L	19:56	1557820	1.64	1.0789	15.9	15.9	0.1101	0.1101	79.39	
PCB-4	14:04	30975	1.56	1.2818	0.8673	0.6269	0.1021	0.1021		RQ
PCB-10	14:14	37147	1.56	1.3149	0.5330	0.4853	0.0818	0.0818		RQ
PCB-9	16:02						0.0757	0.0757		
PCB-7	16:11	963371	1.67	1.4134	11.7	11.7	0.0761	0.0761		
PCB-6	16:26	29300	1.56	1.5421	0.3505	0.3264	0.0698	0.0698		RQ
PCB-5	16:44	11822	1.56	1.3395	0.2156	0.1516	0.0803	0.0803		RQ
PCB-8	16:52	52829	1.67	1.5889	0.5711	0.5711	0.0677	0.0677		
PCB-14	18:30	42325	1.50	1.4025	0.5184	0.5184	0.0767	0.0767		
PCB-11	19:21	472632	1.61	1.2951	6.268	6.268	0.0831	0.0831		
PCB-12	19:40	87575	1.69	1.3358	1.126	1.126	0.0806	0.0806		
PCB-13 (C12)	19:40	87575	1.69	1.3358	1.126	1.126	0.0806	0.0806		
PCB-15	19:58	19741	1.58	1.2903	0.1964	0.1964	0.0708	0.0708		
S Total Trichlorobiphenyls					1.050	0.8829	0.008956	0.008956		RQ
D PCB-19L	17:09	522192	1.09	0.6285	13.8	13.8	0.3640	0.3640	69.08	
* PCB-32L	20:24	1202664	1.06		20.0	20.0				
* PCB-31L	22:38	1986942	1.00		20.0	20.0				
\$ PCB-28L	22:56	1715207	1.05	1.0494	16.5	16.5	0.1165	0.1165	82.26	
D PCB-37L	26:56	1364264	1.06	0.8749	15.7	15.7	0.1397	0.1397	78.48	
PCB-19	17:11	619	1.04	1.2809	0.0217	0.0185	0.009075	0.009075		RQ
PCB-18	19:05	4261	1.04	1.7652	0.1186	0.0925	0.006585	0.006585		RQM
PCB-30 (C18)	19:05	4261	1.04	1.7652	0.1186	0.0925	0.006585	0.006585		RQM
PCB-17	19:27	5076	1.11	1.2430	0.1564	0.1564	0.009352	0.009352		
PCB-27	19:37	941	1.04	1.8327	0.0418	0.0197	0.006343	0.006343		RQ



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:48						0.006929	0.006929		
PCB-16	19:55	1963	1.04	1.1286	0.0963	0.0666	0.0103	0.0103		RQ
PCB-32	20:27	3153	1.04	1.8324	0.0733	0.0659	0.006344	0.006344		RQM
PCB-34	21:41						0.009640	0.009640		
PCB-23	21:49						0.0101	0.0101		
PCB-26	22:09	1693	1.04	1.1255	0.0382	0.0221	0.009659	0.009659		RQ
PCB-29 (C26)	22:09	1693	1.04	1.1255	0.0382	0.0221	0.009659	0.009659		RQ
PCB-25	22:22	1180	1.04	1.2728	0.0307	0.0136	0.008541	0.008541		RQ
PCB-31	22:39	6127	1.04	1.1532	0.1043	0.0779	0.009427	0.009427		RQ
PCB-20	22:58	7452	1.04	1.1718	0.1119	0.0932	0.009277	0.009277		RQ
PCB-28 (C20)	22:58	7452	1.04	1.1718	0.1119	0.0932	0.009277	0.009277		RQ
PCB-21	23:11	8812	0.88	1.0746	0.1202	0.1202	0.0101	0.0101		
PCB-33 (C21)	23:11	8812	0.88	1.0746	0.1202	0.1202	0.0101	0.0101		
PCB-22	23:36	3690	1.14	1.1932	0.0453	0.0453	0.009111	0.009111		
PCB-36	25:07	2654	1.07	1.1071	0.0351	0.0351	0.009820	0.009820		
PCB-39	25:31						0.009387	0.009387		
PCB-38	26:06						0.0100	0.0100		
PCB-35	26:33	4306	1.06	1.1297	0.0559	0.0559	0.009623	0.009623		
PCB-37	26:56						0.009507	0.009507		RQU
S Total Tetrachlorobiphenyls					2.177	2.152	0.0305	0.0305		RQ
D PCB-54L	20:14	546378	0.78	0.5562	16.3	16.3	0.0392	0.0392	81.68	
* PCB-52L	24:46	1586981	0.78		20.0	20.0				
\$ PCB-79L	32:40	585392	0.81	1.0018	6.868	6.868	0.0887	0.0887	103	
D PCB-81L	33:40	1668570	0.77	1.2470	16.9	16.9	0.0622	0.0622	84.32	
D PCB-77L	34:14	1734730	0.81	1.3212	16.5	16.5	0.0587	0.0587	82.74	
PCB-54	20:16						0.003686	0.003686		
PCB-50	22:25						0.0392	0.0392		
PCB-53 (C50)	22:25						0.0392	0.0392		
PCB-45	23:08	53863	0.73	0.8264	0.7660	0.7660	0.0407	0.0407		
PCB-51 (C45)	23:08	53863	0.73	0.8264	0.7660	0.7660	0.0407	0.0407		
PCB-46	23:24						0.0473	0.0473		
PCB-52	24:49	6429	0.77	0.9194	0.1069	0.0822	0.0365	0.0365		RQM
PCB-43	24:56						0.0325	0.0325		
PCB-73 (C43)	24:56						0.0325	0.0325		
PCB-49	25:14						0.0314	0.0314		
PCB-69 (C49)	25:14						0.0314	0.0314		
PCB-48	25:34						0.0400	0.0400		
PCB-44	25:49	91182	0.86	0.9731	1.101	1.101	0.0345	0.0345		
PCB-47 (C44)	25:49	91182	0.86	0.9731	1.101	1.101	0.0345	0.0345		
PCB-65 (C44)	25:49	91182	0.86	0.9731	1.101	1.101	0.0345	0.0345		
PCB-59	26:07						0.0284	0.0284		
PCB-62 (C59)	26:07						0.0284	0.0284		
PCB-75 (C59)	26:07						0.0284	0.0284		
PCB-42	26:19						0.0415	0.0415		
PCB-40	26:49						0.0379	0.0379		
PCB-41 (C40)	26:49						0.0379	0.0379		
PCB-71 (C40)	26:49						0.0379	0.0379		
PCB-64	27:02						0.0285	0.0285		
PCB-72	27:51						0.0307	0.0307		
PCB-68	28:07	21575	0.87	1.2533	0.2023	0.2023	0.0268	0.0268		
PCB-57	28:34						0.0311	0.0311		
PCB-58	28:49						0.0254	0.0254		
PCB-67	28:58						0.0236	0.0236		
PCB-63	29:14						0.0299	0.0299		
PCB-61	29:35						0.0266	0.0266		
PCB-70 (C61)	29:35						0.0266	0.0266		
PCB-74 (C61)	29:35						0.0266	0.0266		
PCB-76 (C61)	29:35						0.0266	0.0266		
PCB-66	29:54						0.0267	0.0267		
PCB-55	30:04						0.0254	0.0254		
PCB-56	30:35						0.0272	0.0272		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:47						0.0299	0.0299		
PCB-80	31:11						0.0254	0.0254		
PCB-79	32:43						0.0234	0.0234		
PCB-78	33:16						0.0289	0.0289		
PCB-81	33:43						0.0307	0.0307		
PCB-77	34:16						0.0315	0.0315		
S Total Pentachlorobiphenyls					0.2817	0.2451	0.0120	0.0120		RQ
D PCB-104L	25:42	1165879	1.62	1.2161	16.7	16.7	0.0369	0.0369	83.70	
\$ PCB-95L	28:40	296797	1.43	0.7218	7.054	7.054	0.0546	0.0546	106	
* PCB-101L	31:35	1145442	1.59		20.0	20.0				
\$ PCB-111L	34:15	1364191	1.70	1.3699	17.4	17.4	0.0328	0.0328	86.94	
D PCB-123L	36:13	1222958	1.55	0.9731	17.6	17.6	0.3122	0.3122	87.97	
D PCB-118L	36:33	1263738	1.57	1.0102	17.5	17.5	0.3008	0.3008	87.57	
D PCB-114L	37:04	1234538	1.58	0.9949	17.4	17.4	0.3054	0.3054	86.86	
D PCB-105L	37:44	1201411	1.51	0.9514	17.7	17.7	0.3194	0.3194	88.39	
* PCB-127L	39:11	1428622	1.55		20.0	20.0				
D PCB-126L	40:49	1188594	1.51	0.9439	17.6	17.6	0.3219	0.3219	88.15	
PCB-104	25:45						0.007073	0.007073		
PCB-96	26:08						0.006522	0.006522		
PCB-103	28:02						0.008162	0.008162		
PCB-94	28:16						0.009338	0.009338		
PCB-95	28:43	4862	1.58	0.8033	0.1038	0.1038	0.008882	0.008882		M
PCB-93	28:55						0.008465	0.008465		
PCB-100 (C93)	28:55						0.008465	0.008465		
PCB-98	29:04						0.008636	0.008636		
PCB-102 (C98)	29:04						0.008636	0.008636		
PCB-88	29:32	1440	1.55	0.8013	0.0411	0.0308	0.008904	0.008904		RQ
PCB-91 (C88)	29:32	1440	1.55	0.8013	0.0411	0.0308	0.008904	0.008904		RQ
PCB-84	29:49						0.009774	0.009774		
PCB-89	30:17						0.009149	0.009149		
PCB-121	30:40						0.005503	0.005503		
PCB-92	31:03						0.008349	0.008349		
PCB-90	31:34	2562	1.55	0.9550	0.0724	0.0460	0.007471	0.007471		RQ
PCB-101 (C90)	31:34	2562	1.55	0.9550	0.0724	0.0460	0.007471	0.007471		RQ
PCB-113 (C90)	31:34	2562	1.55	0.9550	0.0724	0.0460	0.007471	0.007471		RQ
PCB-83	32:13						0.008509	0.008509		
PCB-99 (C83)	32:13						0.008509	0.008509		
PCB-112	32:20						0.005056	0.005056		
PCB-86	32:42						0.006813	0.006813		
PCB-87 (C86)	32:42						0.006813	0.006813		
PCB-97 (C86)	32:42						0.006813	0.006813		
PCB-109 (C86)	32:42						0.006813	0.006813		
PCB-119 (C86)	32:42						0.006813	0.006813		
PCB-125 (C86)	32:42						0.006813	0.006813		
PCB-85	33:26						0.006855	0.006855		
PCB-116 (C85)	33:26						0.006855	0.006855		
PCB-117 (C85)	33:26						0.006855	0.006855		
PCB-110	33:35	4473	1.57	1.1919	0.0644	0.0644	0.005986	0.005986		M
PCB-115 (C110)	33:35	4473	1.57	1.1919	0.0644	0.0644	0.005986	0.005986		M
PCB-82	33:56						0.008593	0.008593		
PCB-111	34:19						0.005884	0.005884		
PCB-120	34:46						0.004833	0.004833		
PCB-108	35:55						0.0208	0.0208		
PCB-124 (C108)	35:55						0.0208	0.0208		
PCB-107	36:10						0.0195	0.0195		
PCB-123	36:16						0.0213	0.0213		
PCB-106	36:23						0.0218	0.0218		
PCB-118	36:36						0.0192	0.0192		
PCB-122	36:57						0.0248	0.0248		
PCB-114	37:07						0.0209	0.0209		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:47						0.0203	0.0203		
PCB-127	39:14						0.0208	0.0208		
PCB-126	40:52						0.0236	0.0236		
S Total Hexachlorobiphenyls					0.1701	0.1512	0.0118	0.0118		RQ
D PCB-155L	31:21	1033492	1.31	1.0851	16.6	16.6	0.0273	0.0273	83.15	
\$ PCB-153L	38:25	456788	1.23	0.9169	6.440	6.440	0.0436	0.0436	96.60	
* PCB-138L	39:40	1435223	1.29		20.0	20.0				
D PCB-167L	42:39	1570443	1.26	1.2572	17.4	17.4	0.0274	0.0274	87.03	
D PCB-156L	43:49	3047681	1.28	1.2106	35.1	35.1	0.0284	0.0284	87.70	
D PCB-157L (C156L)	43:49	3047681	1.28	1.2106	35.1	35.1	0.0284	0.0284	87.70	
D PCB-169L	47:02	1570306	1.25	1.2439	17.6	17.6	0.0277	0.0277	87.96	
PCB-155	31:23						0.004160	0.004160		
PCB-152	31:37						0.003970	0.003970		
PCB-150	31:46						0.003877	0.003877		
PCB-136	32:09						0.003884	0.003884		
PCB-145	32:26						0.004057	0.004057		
PCB-148	33:56						0.005167	0.005167		
PCB-135	34:32						0.005415	0.005415		
PCB-151 (C135)	34:32						0.005415	0.005415		
PCB-154	34:46						0.004833	0.004833		
PCB-144	35:05						0.005003	0.005003		
PCB-147	35:27	3291	1.33	0.8950	0.0475	0.0475	0.0155	0.0155		
PCB-149 (C147)	35:27	3291	1.33	0.8950	0.0475	0.0475	0.0155	0.0155		
PCB-134	35:46						0.0174	0.0174		
PCB-143 (C134)	35:46						0.0174	0.0174		
PCB-139	36:02						0.0158	0.0158		
PCB-140 (C139)	36:02						0.0158	0.0158		
PCB-131	36:16						0.0184	0.0184		
PCB-142	36:24						0.0184	0.0184		
PCB-132	36:43						0.0185	0.0185		
PCB-133	37:13						0.0171	0.0171		
PCB-165	37:36						0.0135	0.0135		
PCB-146	37:51						0.0144	0.0144		
PCB-161	37:59						0.0123	0.0123		
PCB-153	38:26	3563	1.22	1.0938	0.0421	0.0421	0.0126	0.0126		
PCB-168 (C153)	38:26	3563	1.22	1.0938	0.0421	0.0421	0.0126	0.0126		
PCB-141	38:40						0.0158	0.0158		
PCB-130	39:05						0.0196	0.0196		
PCB-137	39:17						0.0178	0.0178		
PCB-164	39:25						0.0133	0.0133		
PCB-129	39:41	3465	1.24	0.9464	0.0599	0.0473	0.0146	0.0146		RQ
PCB-138 (C129)	39:41	3465	1.24	0.9464	0.0599	0.0473	0.0146	0.0146		RQ
PCB-160 (C129)	39:41	3465	1.24	0.9464	0.0599	0.0473	0.0146	0.0146		RQ
PCB-163 (C129)	39:41	3465	1.24	0.9464	0.0599	0.0473	0.0146	0.0146		RQ
PCB-158	40:06						0.0105	0.0105		
PCB-128	40:57						0.0141	0.0141		
PCB-166 (C128)	40:57						0.0141	0.0141		
PCB-159	41:57						0.0100	0.0100		
PCB-162	42:15						0.0110	0.0110		
PCB-167	42:42						0.0100	0.0100		
PCB-156	43:56	1200	1.24	1.1104	0.0205	0.0142	0.0155	0.0155		RQ
PCB-157 (C156)	43:56	1200	1.24	1.1104	0.0205	0.0142	0.0155	0.0155		RQ
PCB-169	47:05						0.0103	0.0103		
S Total Heptachlorobiphenyls					0.0391	0.0287	0.002849	0.002849		RQ
D PCB-188L	37:03	1311430	1.05	1.3133	17.3	17.3	0.0176	0.0176	86.46	
\$ PCB-178L	40:07	1048804	1.12	1.0313	17.6	17.6	0.0224	0.0224	88.05	
* PCB-180L	45:11	1154941	1.08		20.0	20.0				
D PCB-170L	46:27	873377	1.06	0.8362	18.1	18.1	0.0276	0.0276	90.43	
D PCB-189L	49:33	1187238	0.99	1.4414	11.7	11.7	0.3733	0.3733	58.56	
PCB-188	37:07						0.002082	0.002082		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:28						0.001993	0.001993		
PCB-184	37:58						0.002081	0.002081		
PCB-176	38:20						0.002307	0.002307		
PCB-186	38:48						0.001930	0.001930		
PCB-178	40:10						0.003180	0.003180		
PCB-175	40:48						0.002987	0.002987		
PCB-187	41:01						0.002582	0.002582		RQU
PCB-182	41:16						0.003076	0.003076		
PCB-183	41:41						0.002895	0.002895		
PCB-185 (C183)	41:41						0.002895	0.002895		
PCB-174	41:56						0.002950	0.002950		
PCB-177	42:22						0.002911	0.002911		
PCB-181	42:44						0.002993	0.002993		
PCB-171	42:58						0.003047	0.003047		
PCB-173 (C171)	42:58						0.003047	0.003047		
PCB-172	44:33	674	1.05	0.8519	0.0185	0.0145	0.003339	0.003339		RQ
PCB-192	44:52						0.002114	0.002114		
PCB-180	45:12	448	1.05	1.1676	0.009769	0.007025	0.002436	0.002436		RQ
PCB-193 (C180)	45:12	448	1.05	1.1676	0.009769	0.007025	0.002436	0.002436		RQ
PCB-191	45:36						0.002207	0.002207		
PCB-170	46:31						0.003011	0.003011		
PCB-190	47:02	524	1.05	1.3322	0.0109	0.007201	0.002135	0.002135		RQ
PCB-189	49:37						0.007566	0.007566		
S Total Octachlorobiphenyls							0.0242	0.0242		
D PCB-202L	42:26	974896	0.88	0.9818	17.2	17.2	0.0205	0.0205	85.97	
* PCB-194L	51:40	1406643	0.89		20.0	20.0				
D PCB-205L	52:07	1436103	0.90	1.1786	17.3	17.3	0.3367	0.3367	86.63	
PCB-202	42:29						0.003683	0.003683		
PCB-201	43:24						0.003911	0.003911		
PCB-204	44:03						0.003639	0.003639		
PCB-197	44:16						0.003330	0.003330		RQU
PCB-200	44:25						0.003788	0.003788		
PCB-198	47:10						0.004386	0.004386		
PCB-199 (C198)	47:10						0.004386	0.004386		
PCB-196	47:47						0.004887	0.004887		RQU
PCB-203	48:03						0.004106	0.004106		
PCB-195	49:23						0.0242	0.0242		
PCB-194	51:43						0.0205	0.0205		
PCB-205	52:11						0.0184	0.0184		
S Total Nonachlorobiphenyls							0.0663	0.0663		
D PCB-208L	49:05	1421152	0.84	0.9576	21.1	21.1	0.1038	0.1038	106	
D PCB-206L	53:53	1000400	0.84	0.6947	20.5	20.5	0.1430	0.1430	102	
PCB-208	49:08						0.0519	0.0519		
PCB-207	50:03						0.0515	0.0515		
PCB-206	53:56						0.0663	0.0663		
D PCB-209L	55:30	1023704	0.70	0.6669	21.8	21.8	0.0627	0.0627	109	
DCB Decachlorobiphenyl	55:33						0.002051	0.002051		
S Polychlorinated biphenyls, Total					26.1		0.0264	0.0264		RQ

**QC Flag Legend**

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-6-c5x.d  
Lims ID: 140-36940-A-6-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 16:52:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-010  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 11:34:40 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: P0IK

Date: 29-Jun-2024 11:34:40

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:39	11:40	-2	0.727	1190648	479901	872	2180	550		
202.0766	11:39	11:40	-2	0.727	375110	149348	1997	4992	75	3.17(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:48	-2	0.861	1338760	447682	872	2180	513		
202.0766	13:47	13:48	-2	0.861	439170	140377	1997	4992	70	3.05(2.66-3.60)	
PCB-1											
188.0393	11:39	11:39	-1	1.001	1790655	706548	2061	5152	343		
190.0363	11:39	11:39	-1	1.001	610084	246796	308	770	801	2.94(2.66-3.60)	
PCB-2											
188.0393	13:38	13:38	-1	0.989	9435813	3339369	2061	5152	1620		
190.0363	13:38	13:38	-1	0.989	3331055	1166680	308	770	3788	2.83(2.66-3.60)	
PCB-3											
188.0393	13:48	13:49	-2	1.001	7632592	2496876	2061	5152	1211		
190.0363	13:48	13:49	-2	1.001	2688140	889209	308	770	2887	2.84(2.66-3.60)	
PCB-4L											
234.0406	14:03	14:03	-1	0.878	471829	153955	720	1800	214		
236.0376	14:03	14:03	-1	0.878	299139	100847	525	1312	192	1.58(1.33-1.79)	
PCB-9L											
234.0406	16:00	16:01	-1		1132518	324232	720	1800	450		
236.0376	16:00	16:01	-1		686245	199873	525	1312	381	1.65(1.33-1.79)	
PCB-8L											
234.0406	16:51	16:52	-1	1.199	320942	82088	720	1800	114		
	Empc Correction				254815	71928	720	1800	100		
236.0376	16:51	16:52	-1	1.199	163343	46108	525	1312	88	1.96(1.33-1.79)	

RQ

Signal	RT (min.)	Adj RT (min.)	⌊ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:56	19:55	0	1.246	967388	223349	720	1800	310		
236.0376	19:57	19:55	1	1.246	590432	141498	525	1312	270	1.64(1.33-1.79)	
PCB-4											
222.0003	14:04	14:05	-2	1.001	30755	5160	501	1252	10		RQ
	Empc Correction				18875	6364	501	1252	13		
223.9974	14:04	14:05	-2	1.001	12100	4080	166	415	25	2.54(1.33-1.79)	
PCB-10											
222.0003	14:14	14:15	-1	1.013	22637	8296	501	1252	17		RQ
223.9974	14:14	14:15	-1	1.013	18166	5005	166	415	30	1.25(1.33-1.79)	
	Empc Correction				14510	5317	166	415	32		
PCB-9											
222.0003	16:01						501	1252			
223.9974	16:01						166	415			
PCB-7											
222.0003	16:11	16:12	-2	1.152	602334	172940	501	1252	345		
223.9974	16:11	16:12	-2	1.152	361037	105385	166	415	635	1.67(1.33-1.79)	
PCB-6											
222.0003	16:26	16:27	-1	1.170	17855	4417	501	1252	9		RQ
223.9974	16:26	16:27	-2	1.169	13609	3165	166	415	19	1.31(1.33-1.79)	
	Empc Correction				11445	2831	166	415	17		
PCB-5											
222.0003	16:44	16:45	-2	1.191	12197	3620	501	1252	7		RQ
	Empc Correction				7204	2118	501	1252	4		
223.9974	16:44	16:45	-2	1.191	4618	1358	166	415	8	2.64(1.33-1.79)	
PCB-8											
222.0003	16:52	16:52	-1	1.200	33038	8287	501	1252	17		
223.9974	16:52	16:52	-1	1.200	19791	5870	166	415	35	1.67(1.33-1.79)	
PCB-14											
222.0003	18:30	18:29	1	0.928	25408	5318	501	1252	11		
223.9974	18:29	18:29	0	0.927	16917	4620	166	415	28	1.50(1.33-1.79)	
PCB-11											
222.0003	19:21	19:19	1	0.970	291613	70947	501	1252	142		
223.9974	19:21	19:19	1	0.970	181019	46569	166	415	281	1.61(1.33-1.79)	
PCB-12											
222.0003	19:40	19:37	2	0.987	54972	10418	501	1252	21		
223.9974	19:40	19:37	2	0.987	32603	6425	166	415	39	1.69(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:40	19:37	2	0.987	54972	10418	501	1252	21		
223.9974	19:40	19:37	2	0.987	32603	6425	166	415	39	1.69(1.33-1.79)	
PCB-15											
222.0003	19:58	19:56	1	1.001	12077	2715	501	1252	5		
223.9974	19:57	19:56	0	1.001	7664	1663	166	415	10	1.58(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:08	-1	0.840	272338	76377	768	1920	99		
269.9986	17:09	17:08	-1	0.840	249854	73304	605	1512	121	1.09(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:24	20:25	0		618584	155473	768	1920	202		
269.9986	20:24	20:25	0		584080	144553	605	1512	239	1.06(0.88-1.20)	
PCB-31L											
268.0016	22:38	22:39	-1		995878	231029	740	1850	312		
269.9986	22:38	22:39	-1		991064	238941	409	1022	584	1.00(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	-1	1.013	878865	201099	740	1850	272		
269.9986	22:56	22:56	-1	1.013	836342	201783	409	1022	493	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:56	26:56	-1	1.190	701405	140906	740	1850	190		
269.9986	26:56	26:56	-1	1.190	662859	138729	409	1022	339	1.06(0.88-1.20)	
PCB-19											
255.9613	17:11	17:11	-1	1.002	316	141	11	27	13		RQ
257.9584	17:10	17:11	-2	1.001	409	164	24	60	7	0.77(0.88-1.20)	
	Empc Correction				303	135	24	60	6		
PCB-18											
255.9613	19:05	19:05	5	1.113	3377	751	11	27	68		RQM
	Empc Correction				2172	548	11	27	50		M
257.9584	19:02	19:05	3	1.110	2089	527	24	60	22	1.62(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:05	19:05	5	1.113	3377	751	11	27	68		RQM
	Empc Correction				2172	548	11	27	50		M
257.9584	19:02	19:05	3	1.110	2089	527	24	60	22	1.62(0.88-1.20)	
PCB-17											
255.9613	19:27	19:26	0	1.134	2670	671	11	27	61		
257.9584	19:27	19:26	0	1.134	2406	726	24	60	30	1.11(0.88-1.20)	
PCB-27											
255.9613	19:37	19:39	-3	1.144	480	140	11	27	13		RQ
257.9584	19:40	19:39	-1	1.146	1519	524	24	60	22	0.32(0.88-1.20)	
	Empc Correction				461	134	24	60	6		
PCB-24											
255.9613	19:47						11	27			
257.9584	19:47						24	60			
PCB-16											
255.9613	19:55	19:54	0	1.162	1001	382	11	27	35		RQ
257.9584	19:56	19:54	1	1.162	1836	712	24	60	30	0.55(0.88-1.20)	
	Empc Correction				962	367	24	60	15		
PCB-32											
255.9613	20:27	20:27	1	1.192	1962	470	11	27	43		RQM
	Empc Correction				1607	531	11	27	48		M
257.9584	20:25	20:27	0	1.191	1546	511	24	60	21	1.27(0.88-1.20)	
PCB-34											
255.9613	21:40						26	65			
257.9584	21:40						35	87			

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-23											
255.9613	21:48						26	65			
257.9584	21:48						35	87			
PCB-26											
255.9613	22:09	22:07	0	1.291	2100	701	26	65	27		RQ
	Empc Correction				863	153	26	65	6		
257.9584	22:12	22:07	4	1.295	830	148	35	87	4	2.53(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:09	22:07	0	1.291	2100	701	26	65	27		RQ
	Empc Correction				863	153	26	65	6		
257.9584	22:12	22:07	4	1.295	830	148	35	87	4	2.53(0.88-1.20)	
PCB-25											
255.9613	22:22	22:22	-1	0.830	602	180	26	65	7		RQ
257.9584	22:22	22:22	-1	0.830	2065	867	35	87	25	0.29(0.88-1.20)	
	Empc Correction				578	173	35	87	5		
PCB-31											
255.9613	22:39	22:40	-2	0.841	3124	818	26	65	31		RQ
257.9584	22:40	22:40	-1	0.841	5082	1106	35	87	32	0.61(0.88-1.20)	
	Empc Correction				3003	786	35	87	22		
PCB-20											
255.9613	22:58	22:58	-1	0.852	5295	935	26	65	36		RQ
	Empc Correction				3799	1033	26	65	40		
257.9584	22:58	22:58	-1	0.852	3653	994	35	87	28	1.45(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:58	-1	0.852	5295	935	26	65	36		RQ
	Empc Correction				3799	1033	26	65	40		
257.9584	22:58	22:58	-1	0.852	3653	994	35	87	28	1.45(0.88-1.20)	
PCB-21											
255.9613	23:11	23:08	2	0.860	4134	635	26	65	24		
257.9584	23:13	23:08	4	0.862	4678	698	35	87	20	0.88(0.88-1.20)	
PCB-33 (C21)											
255.9613	23:11	23:08	2	0.860	4134	635	26	65	24		
257.9584	23:13	23:08	4	0.862	4678	698	35	87	20	0.88(0.88-1.20)	
PCB-22											
255.9613	23:36	23:36	-1	0.876	1964	536	26	65	21		
257.9584	23:37	23:36	0	0.877	1726	546	35	87	16	1.14(0.88-1.20)	
PCB-36											
255.9613	25:07	25:09	-2	0.933	1374	410	26	65	16		
257.9584	25:10	25:09	0	0.934	1280	442	35	87	13	1.07(0.88-1.20)	
PCB-39											
255.9613	25:30						26	65			
257.9584	25:30						35	87			
PCB-38											
255.9613	26:05						26	65			
257.9584	26:05						35	87			
PCB-35											
255.9613	26:33	26:33	-1	0.986	2216	560	26	65	22		
257.9584	26:33	26:33	-1	0.986	2090	506	35	87	14	1.06(0.88-1.20)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37											RQU
255.9613	26:58						26	65			
257.9584	26:58						35	87			
PCB-54L											
301.9626	20:14	20:13	0	0.817	238983	58026	82	205	708		
303.9597	20:14	20:13	0	0.817	307395	78328	49	122	1599	0.78(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:47	-2		694009	157752	238	595	663		
303.9597	24:46	24:47	-2		892972	203529	323	807	630	0.78(0.65-0.89)	
PCB-79L											
301.9626	32:40	32:41	-2	0.970	261262	50524	238	595	212		
303.9597	32:40	32:41	-2	0.970	324130	63951	323	807	198	0.81(0.65-0.89)	
PCB-81L											
301.9626	33:40	33:39	-1	1.360	727866	138541	238	595	582		
303.9597	33:40	33:39	-1	1.360	940704	181395	323	807	562	0.77(0.65-0.89)	
PCB-77L											
301.9626	34:14	34:14	-2	1.383	773828	138158	238	595	580		
303.9597	34:14	34:14	-2	1.383	960902	172797	323	807	535	0.81(0.65-0.89)	
PCB-54											
289.9224	20:16						4	10			
291.9194	20:16						9	22			
PCB-50											
289.9224	22:24						22	55			
291.9194	22:24						190	475			
PCB-53 (C50)											
289.9224	22:24						22	55			
291.9194	22:24						190	475			
PCB-45											
289.9224	23:08	23:08	-1	1.143	22732	5807	22	55	264		
291.9194	23:08	23:08	-2	1.143	31131	6715	190	475	35	0.73(0.65-0.89)	
PCB-51 (C45)											
289.9224	23:08	23:08	-1	1.143	22732	5807	22	55	264		
291.9194	23:08	23:08	-2	1.143	31131	6715	190	475	35	0.73(0.65-0.89)	
PCB-46											
289.9224	23:23						22	55			
291.9194	23:23						190	475			
PCB-52											RQM
289.9224	24:49	24:47	1	1.226	2797	949	22	55	43		
291.9194	24:47	24:47	-2	1.224	5564	1404	190	475	7	0.50(0.65-0.89)	M
Empc Correction					3632	1232	190	475	6		
PCB-43											
289.9224	24:56						22	55			
291.9194	24:56						190	475			
PCB-73 (C43)											
289.9224	24:56						22	55			
291.9194	24:56						190	475			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-49											
289.9224	25:13						22	55			
291.9194	25:13						190	475			
PCB-69 (C49)											
289.9224	25:13						22	55			
291.9194	25:13						190	475			
PCB-48											
289.9224	25:33						22	55			
291.9194	25:33						190	475			
PCB-44											
289.9224	25:49	25:47	0	1.275	42164	9187	22	55	418		
291.9194	25:49	25:47	1	1.276	49018	9850	190	475	52	0.86(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:49	25:47	0	1.275	42164	9187	22	55	418		
291.9194	25:49	25:47	1	1.276	49018	9850	190	475	52	0.86(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:49	25:47	0	1.275	42164	9187	22	55	418		
291.9194	25:49	25:47	1	1.276	49018	9850	190	475	52	0.86(0.65-0.89)	
PCB-59											
289.9224	26:06						22	55			
291.9194	26:06						190	475			
PCB-62 (C59)											
289.9224	26:06						22	55			
291.9194	26:06						190	475			
PCB-75 (C59)											
289.9224	26:06						22	55			
291.9194	26:06						190	475			
PCB-42											
289.9224	26:19						22	55			
291.9194	26:19						190	475			
PCB-40											
289.9224	26:48						22	55			
291.9194	26:48						190	475			
PCB-41 (C40)											
289.9224	26:48						22	55			
291.9194	26:48						190	475			
PCB-71 (C40)											
289.9224	26:48						22	55			
291.9194	26:48						190	475			
PCB-64											
289.9224	27:01						22	55			
291.9194	27:01						190	475			
PCB-72											
289.9224	27:51						22	55			
291.9194	27:51						190	475			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-68											
289.9224	28:07	28:08	-2	0.835	10019	2830	22	55	129		
291.9194	28:09	28:08	0	0.836	11556	2946	190	475	16	0.87(0.65-0.89)	
PCB-57											
289.9224	28:34						22	55			
291.9194	28:34						190	475			
PCB-58											
289.9224	28:48						22	55			
291.9194	28:48						190	475			
PCB-67											
289.9224	28:57						22	55			
291.9194	28:57						190	475			
PCB-63											
289.9224	29:14						22	55			
291.9194	29:14						190	475			
PCB-61											
289.9224	29:34						22	55			
291.9194	29:34						190	475			
PCB-70 (C61)											
289.9224	29:34						22	55			
291.9194	29:34						190	475			
PCB-74 (C61)											
289.9224	29:34						22	55			
291.9194	29:34						190	475			
PCB-76 (C61)											
289.9224	29:34						22	55			
291.9194	29:34						190	475			
PCB-66											
289.9224	29:53						22	55			
291.9194	29:53						190	475			
PCB-55											
289.9224	30:03						22	55			
291.9194	30:03						190	475			
PCB-56											
289.9224	30:34						22	55			
291.9194	30:34						190	475			
PCB-60											
289.9224	30:46						22	55			
291.9194	30:46						190	475			
PCB-80											
289.9224	31:10						22	55			
291.9194	31:10						190	475			
PCB-79											
289.9224	32:42						22	55			
291.9194	32:42						190	475			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-78											
289.9224	33:15						22	55			
291.9194	33:15						190	475			
PCB-81											
289.9224	33:42						22	55			
291.9194	33:42						190	475			
PCB-77											
289.9224	34:15						22	55			
291.9194	34:15						190	475			
PCB-104L											
337.9207	25:42	25:42	-2	0.813	721073	164632	164	410	1004		
339.9178	25:42	25:42	-2	0.813	444806	101672	46	115	2210	1.62(1.32-1.78)	
PCB-95L											
337.9207	28:40	28:40	-2	1.115	174442	36091	164	410	220		
339.9178	28:40	28:40	-2	1.115	122355	24680	46	115	537	1.43(1.32-1.78)	
PCB-101L											
337.9207	31:35	31:37	-2		703265	144668	164	410	882		
339.9178	31:35	31:37	-2		442177	89191	46	115	1939	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:15	34:15	-2	1.085	858769	171663	164	410	1047		
339.9178	34:15	34:15	-2	1.085	505422	100624	46	115	2187	1.70(1.32-1.78)	
PCB-123L											
337.9207	36:13	36:13	-2	1.147	742685	150161	1082	2705	139		
339.9178	36:13	36:13	-2	1.147	480273	94626	577	1442	164	1.55(1.32-1.78)	
PCB-118L											
337.9207	36:33	36:32	-1	1.157	772431	147942	1082	2705	137		
339.9178	36:33	36:32	-1	1.157	491307	93779	577	1442	163	1.57(1.32-1.78)	
PCB-114L											
337.9207	37:04	37:04	-1	1.174	755917	150405	1082	2705	139		
339.9178	37:04	37:04	-1	1.174	478621	96428	577	1442	167	1.58(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:44	-2	1.194	723499	137443	1082	2705	127		
339.9178	37:44	37:44	-2	1.194	477912	95234	577	1442	165	1.51(1.32-1.78)	
PCB-127L											
337.9207	39:11	39:13	-2		867371	162713	1082	2705	150		
339.9178	39:11	39:13	-2		561251	110243	577	1442	191	1.55(1.32-1.78)	
PCB-126L											
337.9207	40:49	40:48	-1	1.292	714755	131011	1082	2705	121		
339.9178	40:49	40:48	-1	1.292	473839	85458	577	1442	148	1.51(1.32-1.78)	
PCB-104											
325.8804	25:43						24	60			
327.8775	25:43						14	35			
PCB-96											
325.8804	26:06						24	60			
327.8775	26:06						14	35			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-103											
325.8804	28:00						24	60			
327.8775	28:00						14	35			
PCB-94											
325.8804	28:14						24	60			
327.8775	28:14						14	35			
PCB-95											
325.8804	28:43	28:43	0	1.117	2975	817	24	60	34		M
327.8775	28:43	28:43	1	1.118	1887	527	14	35	38	1.58(1.32-1.78)	M
PCB-93											
325.8804	28:53						24	60			
327.8775	28:53						14	35			
PCB-100 (C93)											
325.8804	28:53						24	60			
327.8775	28:53						14	35			
PCB-98											
325.8804	29:02						24	60			
327.8775	29:02						14	35			
PCB-102 (C98)											
325.8804	29:02						24	60			
327.8775	29:02						14	35			
PCB-88											
325.8804	29:32	29:32	-2	1.149	1353	313	24	60	13		RQ
	Empc Correction				875	336	24	60	14		
327.8775	29:32	29:32	-2	1.149	565	217	14	35	16	2.39(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:32	29:32	-2	1.149	1353	313	24	60	13		RQ
	Empc Correction				875	336	24	60	14		
327.8775	29:32	29:32	-2	1.149	565	217	14	35	16	2.39(1.32-1.78)	
PCB-84											
325.8804	29:47						24	60			
327.8775	29:47						14	35			
PCB-89											
325.8804	30:15						24	60			
327.8775	30:15						14	35			
PCB-121											
325.8804	30:38						24	60			
327.8775	30:38						14	35			
PCB-92											
325.8804	31:01						24	60			
327.8775	31:01						14	35			
PCB-90											
325.8804	31:34	31:36	-4	1.228	3026	660	24	60	28		RQ
	Empc Correction				1557	731	24	60	30		
327.8775	31:38	31:36	0	1.231	1005	472	14	35	34	3.01(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-101 (C90)											RQ
325.8804	31:34	31:36	-4	1.228	3026	660	24	60	28		
	Empc Correction				1557	731	24	60	30		
327.8775	31:38	31:36	0	1.231	1005	472	14	35	34	3.01(1.32-1.78)	
PCB-113 (C90)											RQ
325.8804	31:34	31:36	-4	1.228	3026	660	24	60	28		
	Empc Correction				1557	731	24	60	30		
327.8775	31:38	31:36	0	1.231	1005	472	14	35	34	3.01(1.32-1.78)	
PCB-83											
325.8804	32:11						24	60			
327.8775	32:11						14	35			
PCB-99 (C83)											
325.8804	32:11						24	60			
327.8775	32:11						14	35			
PCB-112											
325.8804	32:18						24	60			
327.8775	32:18						14	35			
PCB-86											
325.8804	32:40						24	60			
327.8775	32:40						14	35			
PCB-87 (C86)											
325.8804	32:40						24	60			
327.8775	32:40						14	35			
PCB-97 (C86)											
325.8804	32:40						24	60			
327.8775	32:40						14	35			
PCB-109 (C86)											
325.8804	32:40						24	60			
327.8775	32:40						14	35			
PCB-119 (C86)											
325.8804	32:40						24	60			
327.8775	32:40						14	35			
PCB-125 (C86)											
325.8804	32:40						24	60			
327.8775	32:40						14	35			
PCB-85											
325.8804	33:24						24	60			
327.8775	33:24						14	35			
PCB-116 (C85)											
325.8804	33:24						24	60			
327.8775	33:24						14	35			
PCB-117 (C85)											
325.8804	33:24						24	60			
327.8775	33:24						14	35			
PCB-110											M
325.8804	33:35	33:35	-3	1.307	2730	654	24	60	27		M
327.8775	33:36	33:35	-2	1.307	1743	399	14	35	29	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-115 (C110)											M
325.8804	33:35	33:35	-3	1.307	2730	654	24	60	27		M
327.8775	33:36	33:35	-2	1.307	1743	399	14	35	29	1.57(1.32-1.78)	
PCB-82											
325.8804	33:54						24	60			
327.8775	33:54						14	35			
PCB-111											
325.8804	34:17						24	60			
327.8775	34:17						14	35			
PCB-120											
325.8804	34:44						24	60			
327.8775	34:44						14	35			
PCB-108											
325.8804	35:52						69	172			
327.8775	35:52						43	107			
PCB-124 (C108)											
325.8804	35:52						69	172			
327.8775	35:52						43	107			
PCB-107											
325.8804	36:07						69	172			
327.8775	36:07						43	107			
PCB-123											
325.8804	36:14						69	172			
327.8775	36:14						43	107			
PCB-106											
325.8804	36:21						69	172			
327.8775	36:21						43	107			
PCB-118											
325.8804	36:35						69	172			
327.8775	36:35						43	107			
PCB-122											
325.8804	36:56						69	172			
327.8775	36:56						43	107			
PCB-114											
325.8804	37:06						69	172			
327.8775	37:06						43	107			
PCB-105											
325.8804	37:44						69	172			
327.8775	37:44						43	107			
PCB-127											
325.8804	39:12						69	172			
327.8775	39:12						43	107			
PCB-126											
325.8804	40:51						69	172			
327.8775	40:51						43	107			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-155L											
371.8817	31:21	31:21	-2	0.790	585852	124436	83	207	1499		
373.8788	31:21	31:21	-2	0.790	447640	89376	56	140	1596	1.31(1.05-1.43)	
PCB-153L											
371.8817	38:25	38:24	-1	0.900	251980	50372	107	267	471		
373.8788	38:25	38:24	-1	0.900	204808	41369	84	210	492	1.23(1.05-1.43)	
PCB-138L											
371.8817	39:40	39:42	-2		809379	155137	107	267	1450		
373.8788	39:40	39:42	-2		625844	121989	84	210	1452	1.29(1.05-1.43)	
PCB-167L											
371.8817	42:39	42:39	-2	1.076	876248	161107	107	267	1506		
373.8788	42:39	42:39	-2	1.076	694195	133212	84	210	1586	1.26(1.05-1.43)	
PCB-156L											
371.8817	43:49	43:49	-1	1.105	1711926	217147	107	267	2029		
373.8788	43:49	43:49	-1	1.105	1335755	166639	84	210	1984	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:49	43:49	-1	1.105	1711926	217147	107	267	2029		
373.8788	43:49	43:49	-1	1.105	1335755	166639	84	210	1984	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:02	47:02	-1	1.186	872000	151022	107	267	1411		
373.8788	47:02	47:02	-2	1.186	698306	125392	84	210	1493	1.25(1.05-1.43)	
PCB-155											
359.8415	31:21						13	32			
361.8385	31:21						4	10			
PCB-152											
359.8415	31:35						13	32			
361.8385	31:35						4	10			
PCB-150											
359.8415	31:44						13	32			
361.8385	31:44						4	10			
PCB-136											
359.8415	32:07						13	32			
361.8385	32:07						4	10			
PCB-145											
359.8415	32:24						13	32			
361.8385	32:24						4	10			
PCB-148											
359.8415	33:54						13	32			
361.8385	33:54						4	10			
PCB-135											
359.8415	34:30						13	32			
361.8385	34:30						4	10			
PCB-151 (C135)											
359.8415	34:30						13	32			
361.8385	34:30						4	10			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-154											
359.8415	34:45						13	32			
361.8385	34:45						4	10			
PCB-144											
359.8415	35:04						13	32			
361.8385	35:04						4	10			
PCB-147											
359.8415	35:27	35:26	-1	1.131	1881	491	44	110	11		
361.8385	35:23	35:26	-4	1.129	1410	915	22	55	42	1.33(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:26	-1	1.131	1881	491	44	110	11		
361.8385	35:23	35:26	-4	1.129	1410	915	22	55	42	1.33(1.05-1.43)	
PCB-134											
359.8415	35:44						44	110			
361.8385	35:44						22	55			
PCB-143 (C134)											
359.8415	35:44						44	110			
361.8385	35:44						22	55			
PCB-139											
359.8415	36:01						44	110			
361.8385	36:01						22	55			
PCB-140 (C139)											
359.8415	36:01						44	110			
361.8385	36:01						22	55			
PCB-131											
359.8415	36:14						44	110			
361.8385	36:14						22	55			
PCB-142											
359.8415	36:22						44	110			
361.8385	36:22						22	55			
PCB-132											
359.8415	36:42						44	110			
361.8385	36:42						22	55			
PCB-133											
359.8415	37:11						44	110			
361.8385	37:11						22	55			
PCB-165											
359.8415	37:35						44	110			
361.8385	37:35						22	55			
PCB-146											
359.8415	37:49						44	110			
361.8385	37:49						22	55			
PCB-161											
359.8415	37:57						44	110			
361.8385	37:57						22	55			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-153											
359.8415	38:26	38:27	-3	0.901	1956	483	44	110	11		
361.8385	38:28	38:27	-1	0.902	1607	485	22	55	22	1.22(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:26	38:27	-3	0.901	1956	483	44	110	11		
361.8385	38:28	38:27	-1	0.902	1607	485	22	55	22	1.22(1.05-1.43)	
PCB-141											
359.8415	38:38						44	110			
361.8385	38:38						22	55			
PCB-130											
359.8415	39:03						44	110			
361.8385	39:03						22	55			
PCB-137											
359.8415	39:15						44	110			
361.8385	39:15						22	55			
PCB-164											
359.8415	39:23						44	110			
361.8385	39:23						22	55			
PCB-129											
359.8415	39:41	39:41	-2	0.930	2838	812	44	110	18		RQ
	Empc Correction				1918	606	44	110	14		
361.8385	39:41	39:41	-2	0.930	1547	489	22	55	22	1.83(1.05-1.43)	
PCB-138 (C129)											
359.8415	39:41	39:41	-2	0.930	2838	812	44	110	18		RQ
	Empc Correction				1918	606	44	110	14		
361.8385	39:41	39:41	-2	0.930	1547	489	22	55	22	1.83(1.05-1.43)	
PCB-160 (C129)											
359.8415	39:41	39:41	-2	0.930	2838	812	44	110	18		RQ
	Empc Correction				1918	606	44	110	14		
361.8385	39:41	39:41	-2	0.930	1547	489	22	55	22	1.83(1.05-1.43)	
PCB-163 (C129)											
359.8415	39:41	39:41	-2	0.930	2838	812	44	110	18		RQ
	Empc Correction				1918	606	44	110	14		
361.8385	39:41	39:41	-2	0.930	1547	489	22	55	22	1.83(1.05-1.43)	
PCB-158											
359.8415	40:04						44	110			
361.8385	40:04						22	55			
PCB-128											
359.8415	40:55						44	110			
361.8385	40:55						22	55			
PCB-166 (C128)											
359.8415	40:55						44	110			
361.8385	40:55						22	55			
PCB-159											
359.8415	41:55						44	110			
361.8385	41:55						22	55			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-162											
359.8415	42:13						44	110			
361.8385	42:13						22	55			
PCB-167											
359.8415	42:40						44	110			
361.8385	42:40						22	55			
PCB-156											
359.8415	43:56	43:51	3	1.002	1199	337	44	110	8		RQ
	Empc Correction				664	240	44	110	5		
361.8385	43:53	43:51	1	1.001	536	194	22	55	9	2.24(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:56	43:51	3	1.002	1199	337	44	110	8		RQ
	Empc Correction				664	240	44	110	5		
361.8385	43:53	43:51	1	1.001	536	194	22	55	9	2.24(1.05-1.43)	
PCB-169											
359.8415	47:04						44	110			
361.8385	47:04						22	55			
PCB-188L											
405.8428	37:03	37:04	-2	0.820	671870	130454	71	177	1837		
407.8398	37:03	37:04	-2	0.820	639560	123456	33	82	3741	1.05(0.89-1.21)	
PCB-178L											
405.8428	40:07	40:07	-1	0.888	553136	106737	71	177	1503		
407.8398	40:07	40:07	-1	0.888	495668	99472	33	82	3014	1.12(0.89-1.21)	
PCB-180L											
405.8428	45:11	45:14	-2		600328	116073	71	177	1635		
407.8398	45:11	45:14	-2		554613	109203	33	82	3309	1.08(0.89-1.21)	
PCB-170L											
405.8428	46:27	46:27	-2	1.028	448793	87639	71	177	1234		
407.8398	46:27	46:27	-2	1.028	424584	80291	33	82	2433	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:33	49:33	-2	1.097	590606	110252	1677	4192	66		
407.8398	49:33	49:33	-2	1.097	596632	109282	1089	2722	100	0.99(0.89-1.21)	
PCB-188											
393.8025	37:05						3	7			
395.7995	37:05						9	22			
PCB-179											
393.8025	37:26						3	7			
395.7995	37:26						9	22			
PCB-184											
393.8025	37:56						3	7			
395.7995	37:56						9	22			
PCB-176											
393.8025	38:18						3	7			
395.7995	38:18						9	22			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-186											
393.8025	38:46						3	7			
395.7995	38:46						9	22			
PCB-178											
393.8025	40:08						3	7			
395.7995	40:08						9	22			
PCB-175											
393.8025	40:46						3	7			
395.7995	40:46						9	22			
PCB-187											
393.8025	41:02						3	7			RQU
395.7995	41:02						9	22			
PCB-182											
393.8025	41:14						3	7			
395.7995	41:14						9	22			
PCB-183											
393.8025	41:39						3	7			
395.7995	41:39						9	22			
PCB-185 (C183)											
393.8025	41:39						3	7			
395.7995	41:39						9	22			
PCB-174											
393.8025	41:53						3	7			
395.7995	41:53						9	22			
PCB-177											
393.8025	42:19						3	7			
395.7995	42:19						9	22			
PCB-181											
393.8025	42:42						3	7			
395.7995	42:42						9	22			
PCB-171											
393.8025	42:56						3	7			
395.7995	42:56						9	22			
PCB-173 (C171)											
393.8025	42:56						3	7			
395.7995	42:56						9	22			
PCB-172											
393.8025	44:33	44:35	-3	0.899	530	147	3	7	49		RQ
	Empc Correction				345	178	3	7	59		
395.7995	44:32	44:35	-4	0.899	329	170	9	22	19	1.61(0.89-1.21)	
PCB-192											
393.8025	44:51						3	7			
395.7995	44:51						9	22			
PCB-180											
393.8025	45:12	45:12	-1	0.912	404	95	3	7	32		RQ
	Empc Correction				229	115	3	7	38		
395.7995	45:13	45:12	0	0.912	219	110	9	22	12	1.84(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-193 (C180)											RQ
393.8025	45:12	45:12	-1	0.912	404	95	3	7	32		
	Empc Correction				229	115	3	7	38		
395.7995	45:13	45:12	0	0.912	219	110	9	22	12	1.84(0.89-1.21)	
PCB-191											
393.8025	45:35						3	7			
395.7995	45:35						9	22			
PCB-170											
393.8025	46:30						3	7			
395.7995	46:30						9	22			
PCB-190											RQ
393.8025	47:02	47:00	1	0.949	536	137	3	7	46		
	Empc Correction				268	82	3	7	27		
395.7995	47:01	47:00	-1	0.949	256	79	9	22	9	2.09(0.89-1.21)	
PCB-189											
393.8025	49:35						14	35			
395.7995	49:35						18	45			
PCB-202L											
439.8038	42:26	42:25	-1	0.821	456903	91040	34	85	2678		
441.8008	42:26	42:25	-1	0.821	517993	102924	57	142	1806	0.88(0.76-1.02)	
PCB-194L											
439.8038	51:40	51:42	-2		663353	120498	1412	3530	85		
441.8008	51:39	51:42	-3		743290	136520	628	1570	217	0.89(0.76-1.02)	
PCB-205L											
439.8038	52:07	52:08	-3	1.009	679436	124335	1412	3530	88		
441.8008	52:08	52:08	-2	1.009	756667	135814	628	1570	216	0.90(0.76-1.02)	
PCB-202											
427.7635	42:27						14	35			
429.7606	42:27						1	2			
PCB-201											
427.7635	43:23						14	35			
429.7606	43:23						1	2			
PCB-204											
427.7635	44:02						14	35			
429.7606	44:02						1	2			
PCB-197											RQU
427.7635	44:16						14	35			
429.7606	44:16						1	2			
PCB-200											
427.7635	44:23						14	35			
429.7606	44:23						1	2			
PCB-198											
427.7635	47:09						14	35			
429.7606	47:09						1	2			
PCB-199 (C198)											
427.7635	47:09						14	35			
429.7606	47:09						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-196											RQU
427.7635	47:49						14	35			
429.7606	47:49						1	2			
PCB-203											
427.7635	48:01						14	35			
429.7606	48:01						1	2			
PCB-195											
427.7635	49:20						73	182			
429.7606	49:20						31	77			
PCB-194											
427.7635	51:41						73	182			
429.7606	51:41						31	77			
PCB-205											
427.7635	52:08						73	182			
429.7606	52:08						31	77			
PCB-208L											
473.7648	49:05	49:05	-2	0.950	648402	123725	248	620	499		
475.7619	49:05	49:05	-2	0.950	772750	149421	263	657	568	0.84(0.65-0.89)	
PCB-206L											
473.7648	53:53	53:52	-1	1.043	457577	84698	248	620	342		
475.7619	53:53	53:52	-2	1.043	542823	97603	263	657	371	0.84(0.65-0.89)	
PCB-208											
461.7246	49:06						107	267			
463.7216	49:06						216	540			
PCB-207											
461.7246	50:02						107	267			
463.7216	50:02						216	540			
PCB-206											
461.7246	53:55						107	267			
463.7216	53:55						216	540			
PCB-209L											
507.7258	55:30	55:30	-2	1.074	420792	75304	127	317	593		
509.7229	55:29	55:30	-3	1.074	602912	101956	88	220	1159	0.70(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:32						5	12			
497.6826	55:32						3	7			

**QC Flag Legend**

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

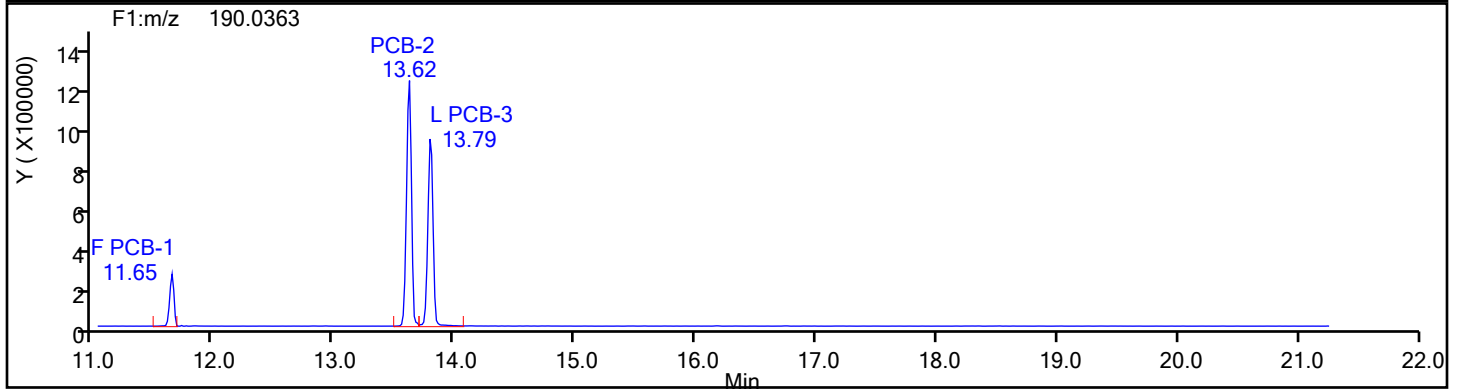
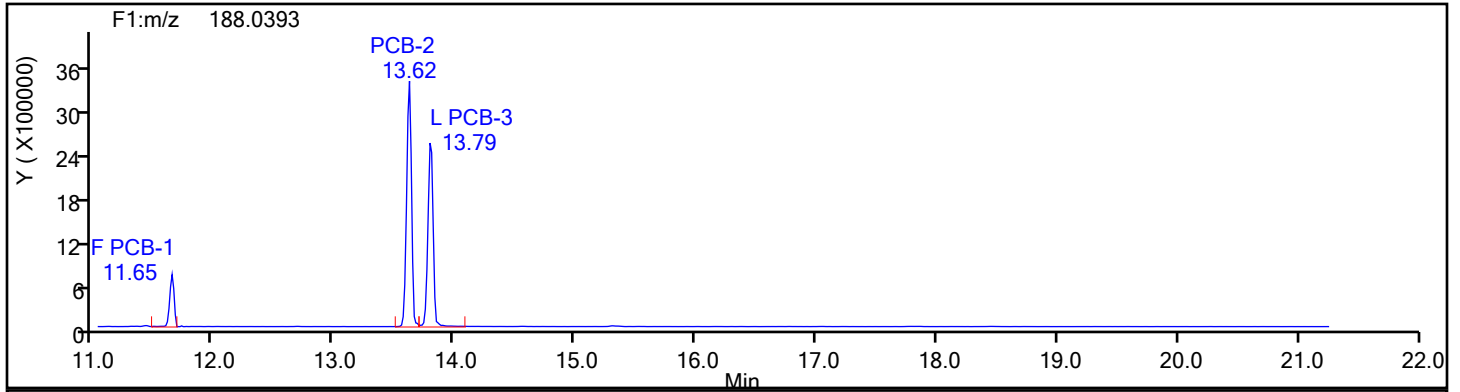
## Review Flags

M - Manually Integrated

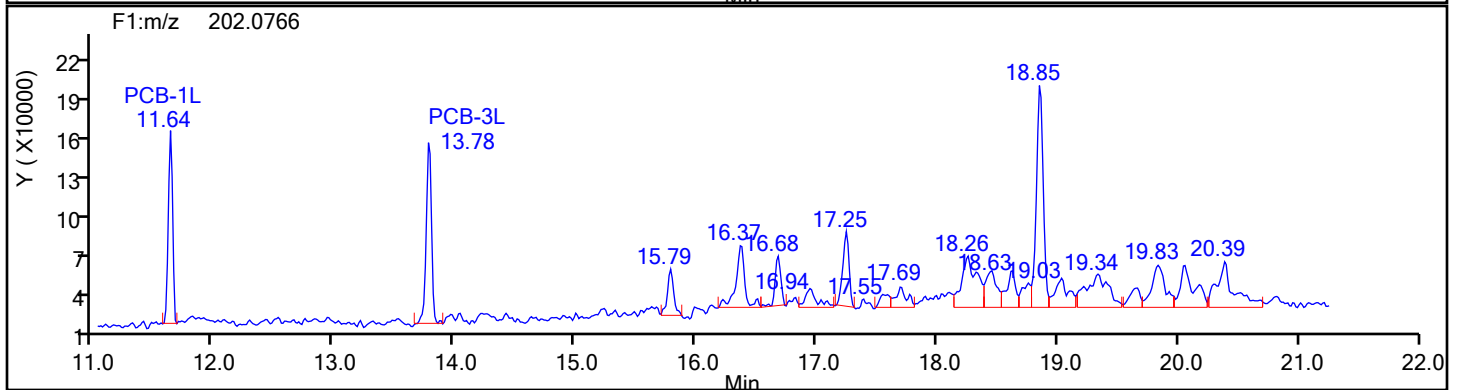
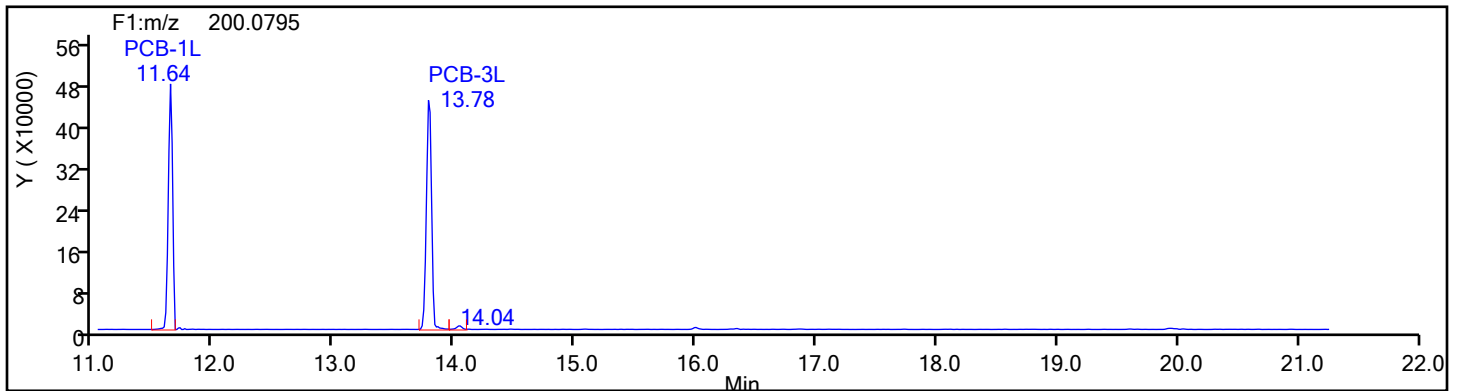
U - Marked Undetected

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-6-c5x.d  
Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

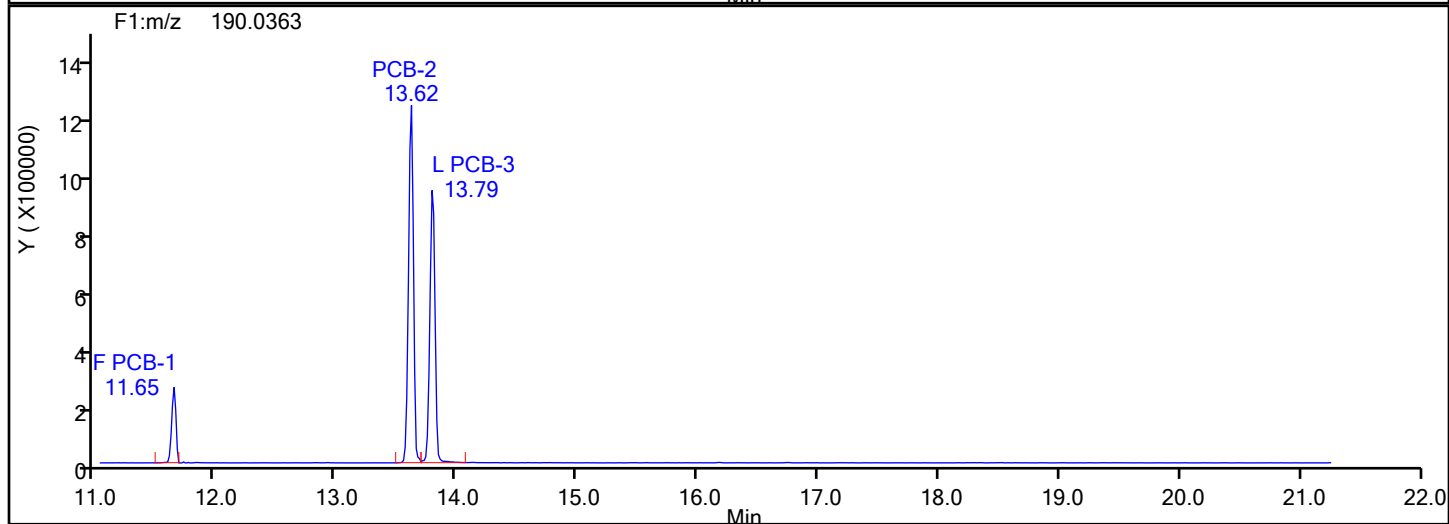
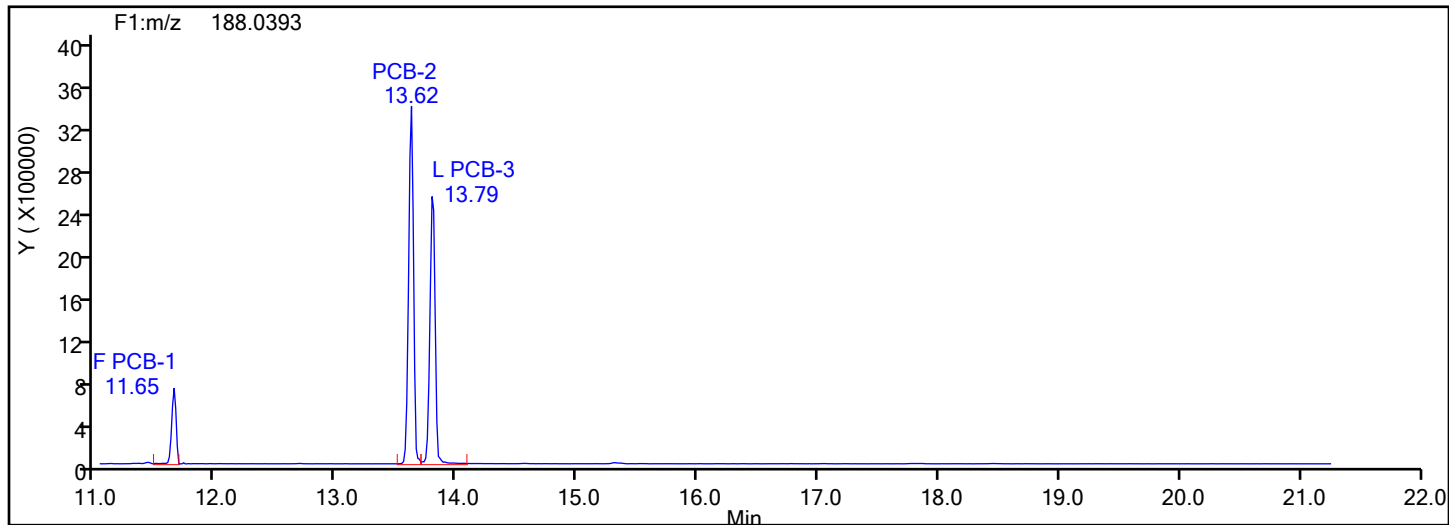


## MoPCB F1 Standards

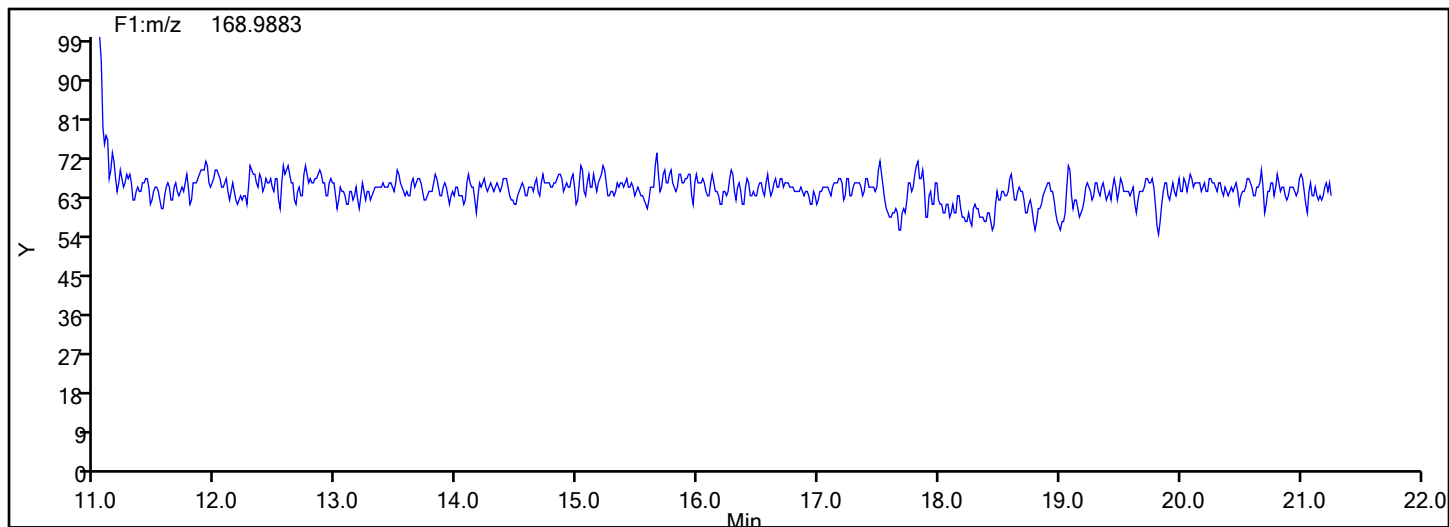


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1



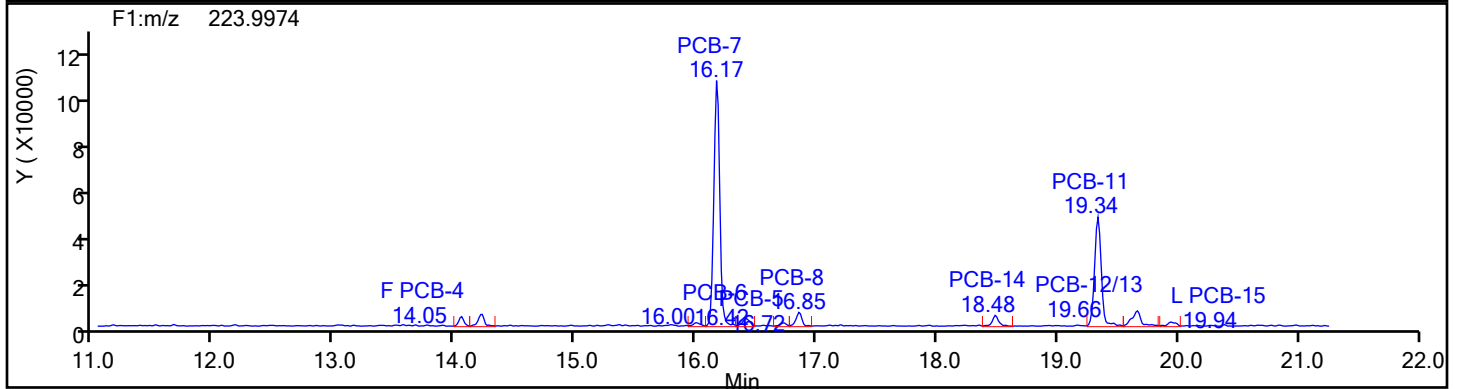
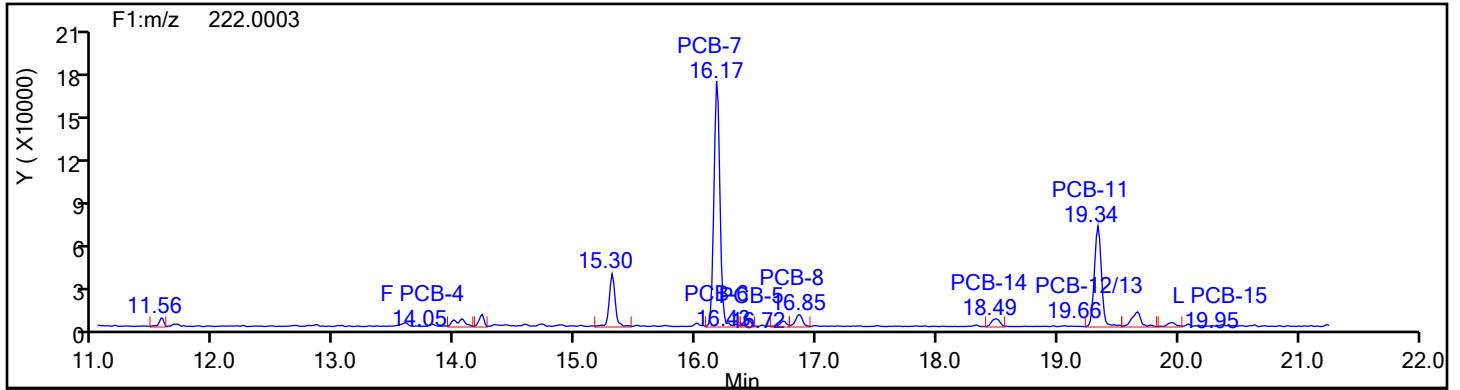
## MoPCB F1 Lock Mass



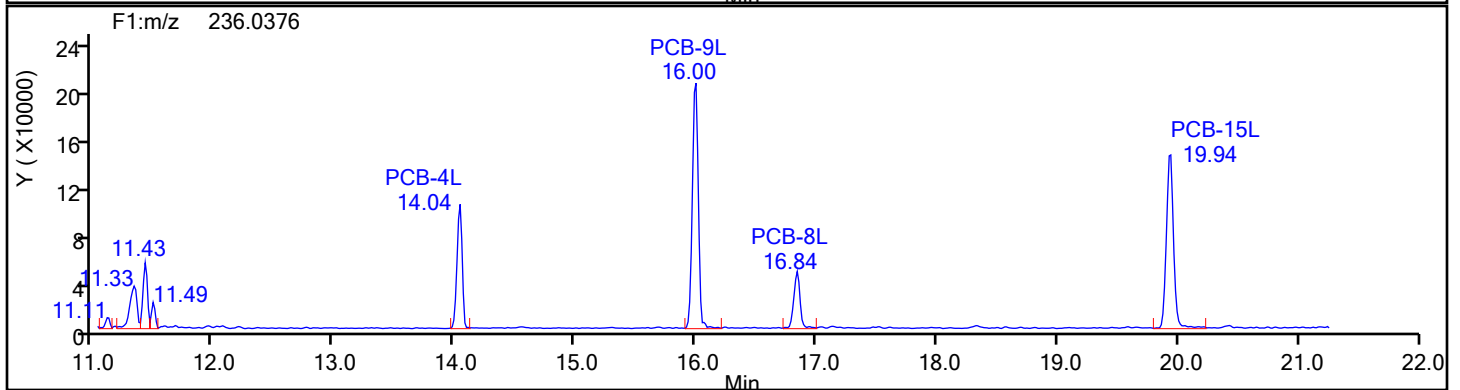
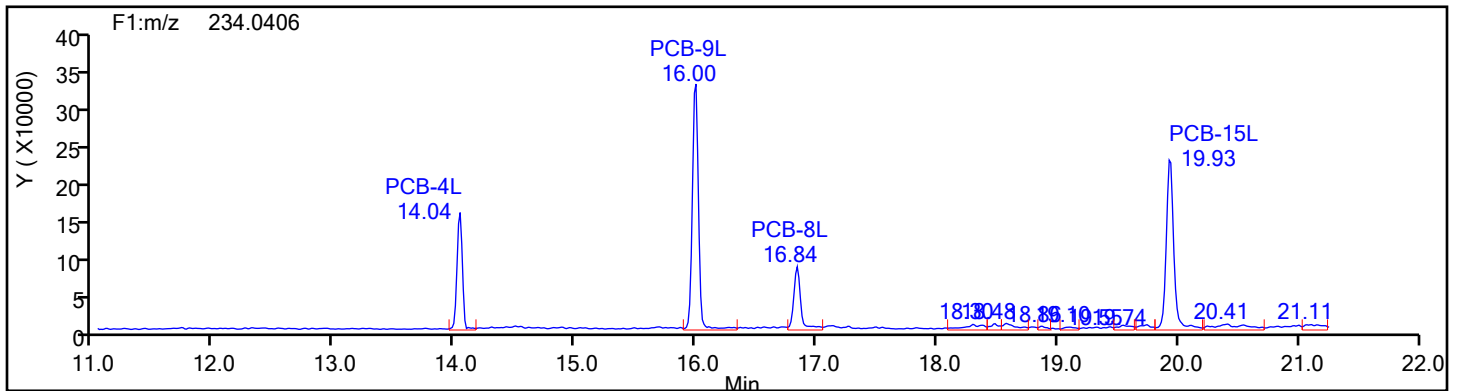


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1

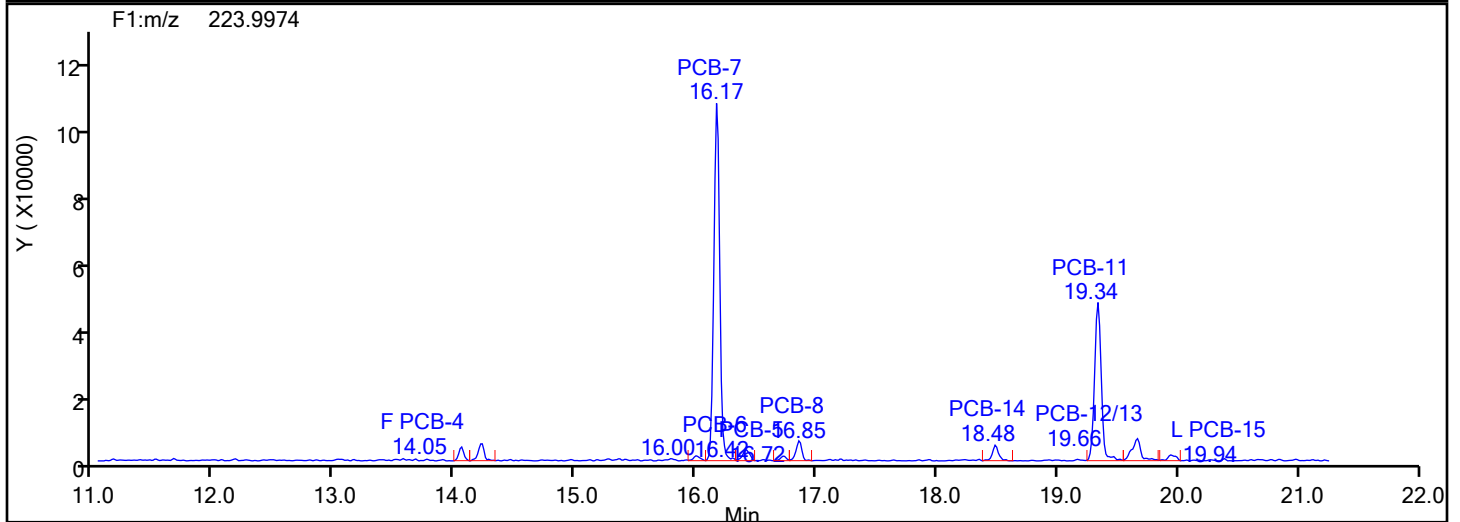
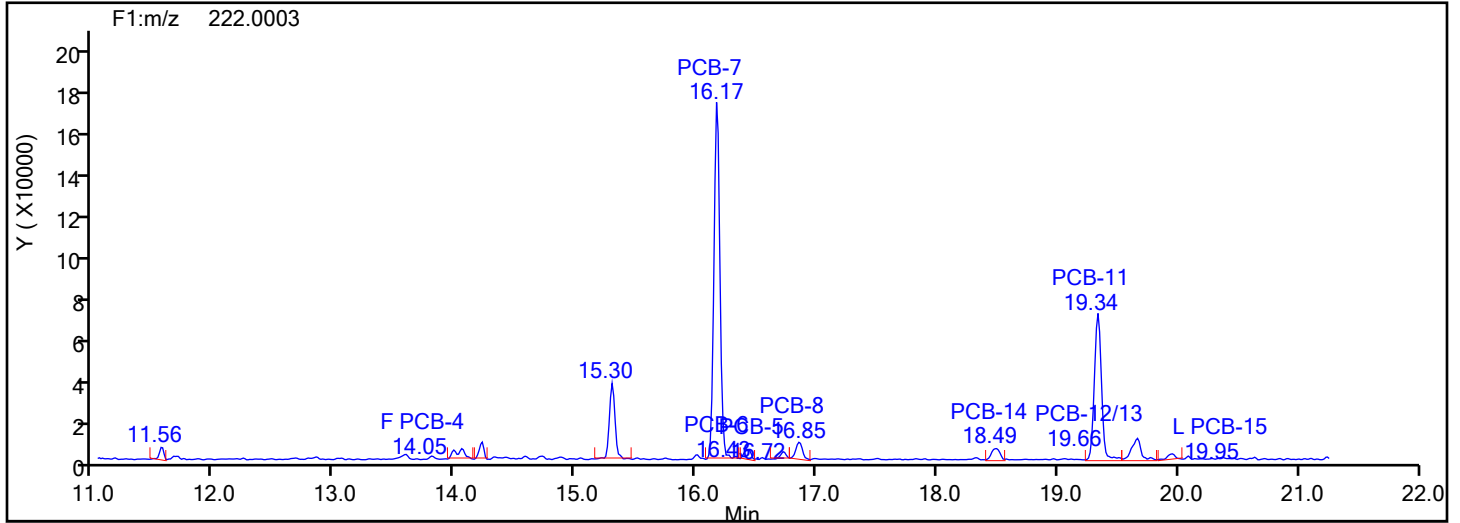


## DiPCB F1 Standards

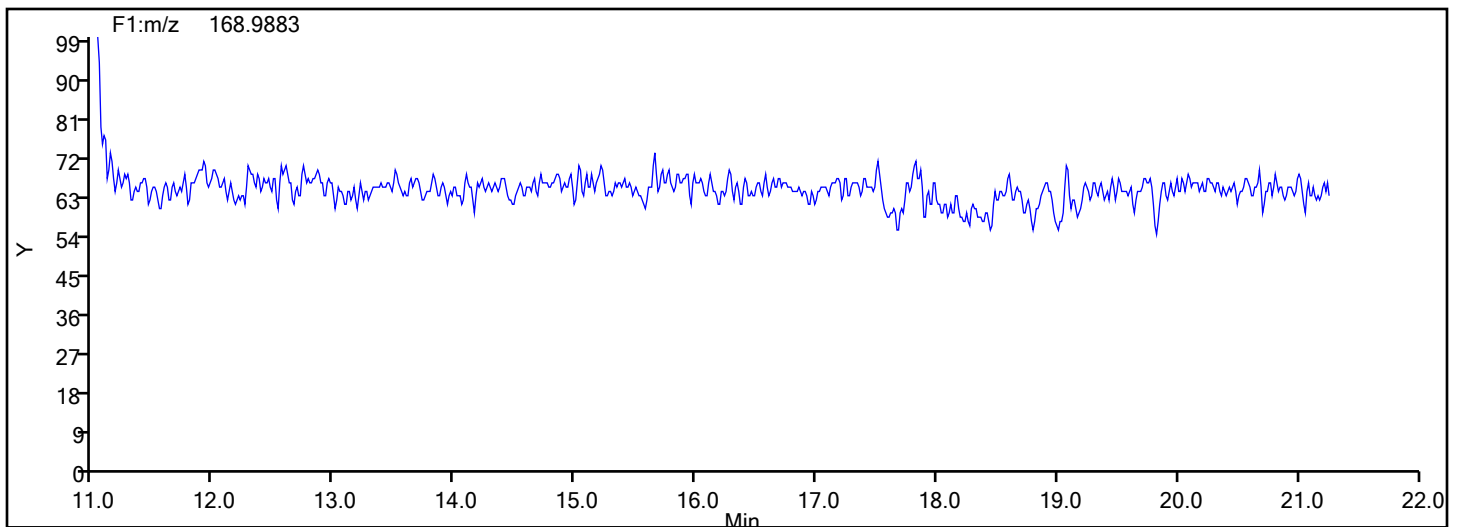


## Eurofins Knoxville

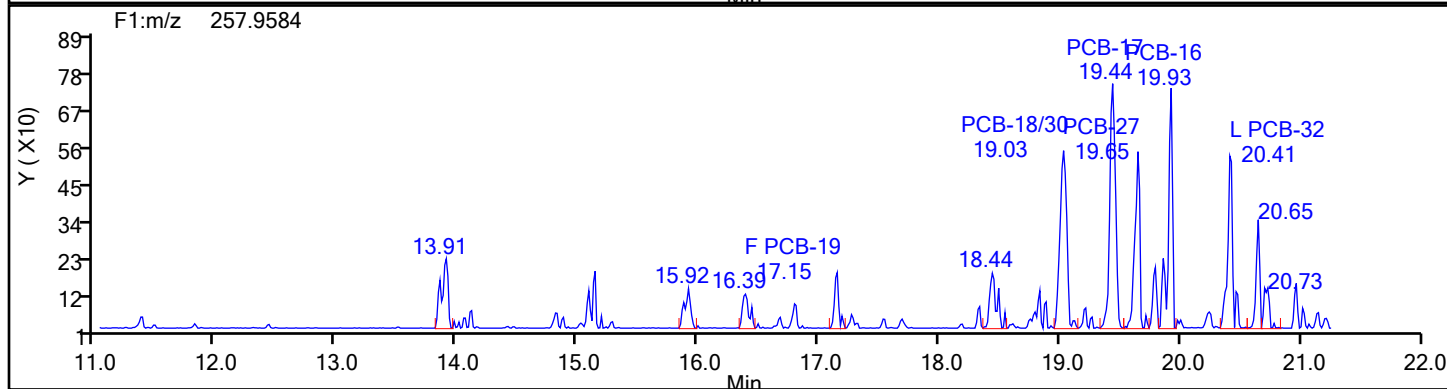
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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



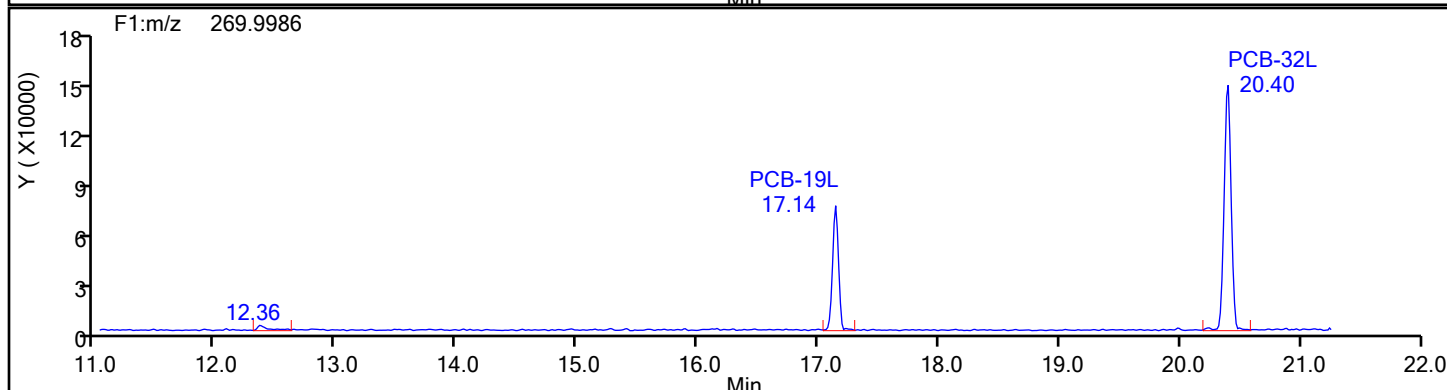
## DiPCB F1 Lock Mass



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Injection Date:	28-Jun-2024 16:52:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 - EPN 4-1\IN-701-RUN 6-COMBINED		
Worklist#:	88219	Sample Line#:	10
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TriPCB F1			

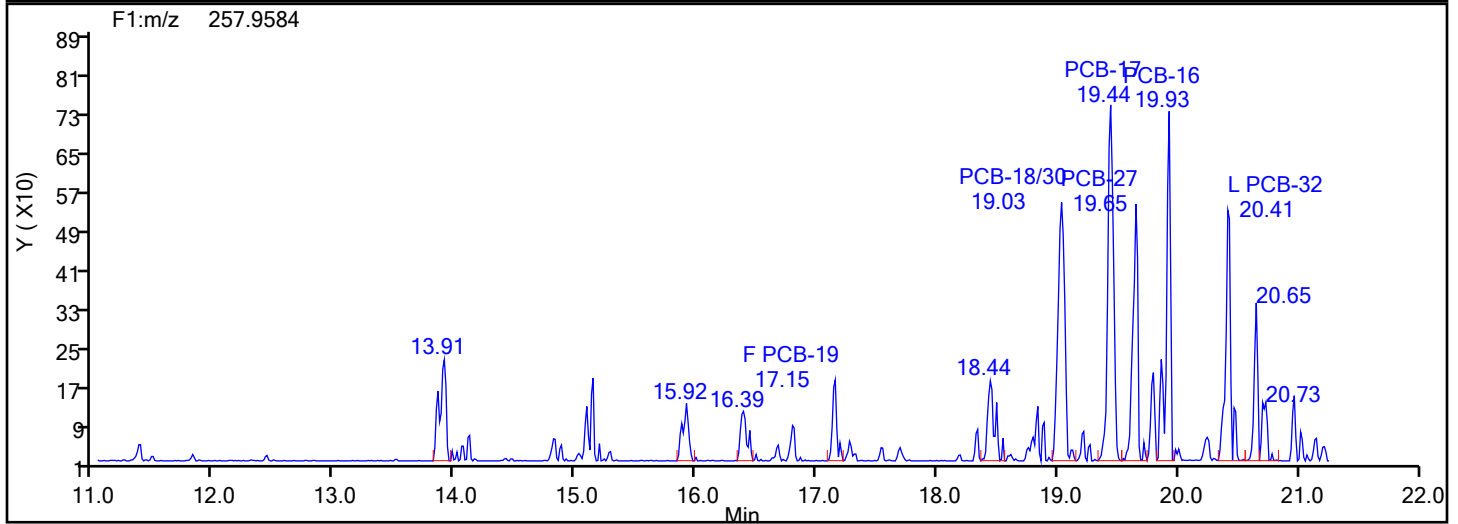
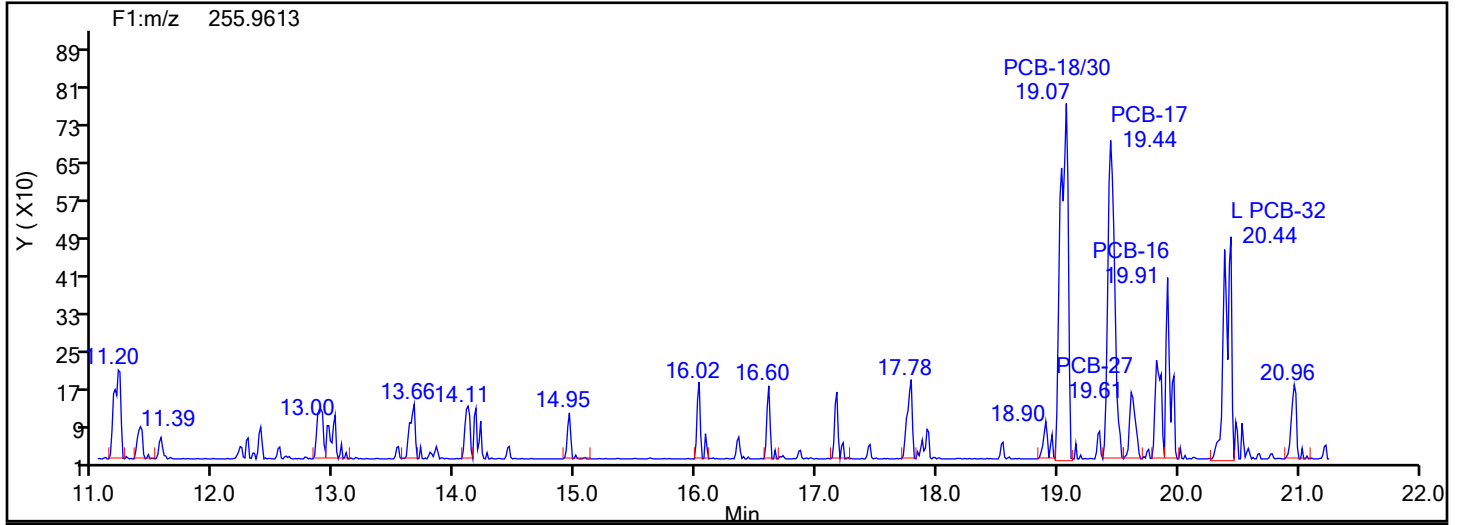


TriPCB F1 Standards

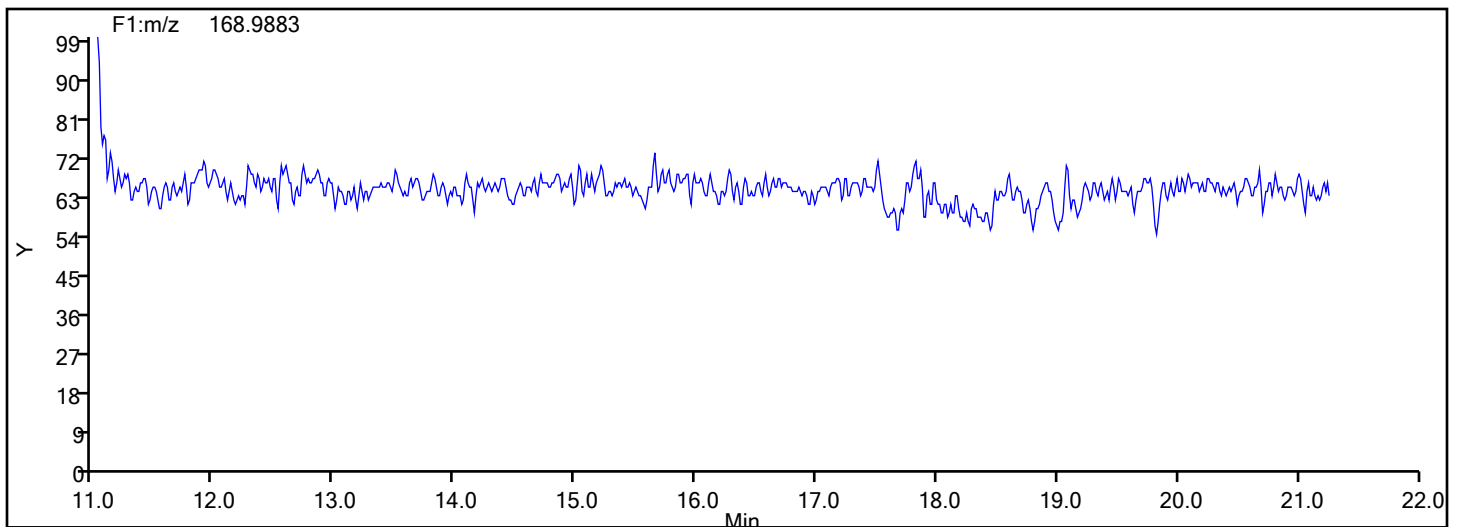


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Lock Mass



## Eurofins Knoxville

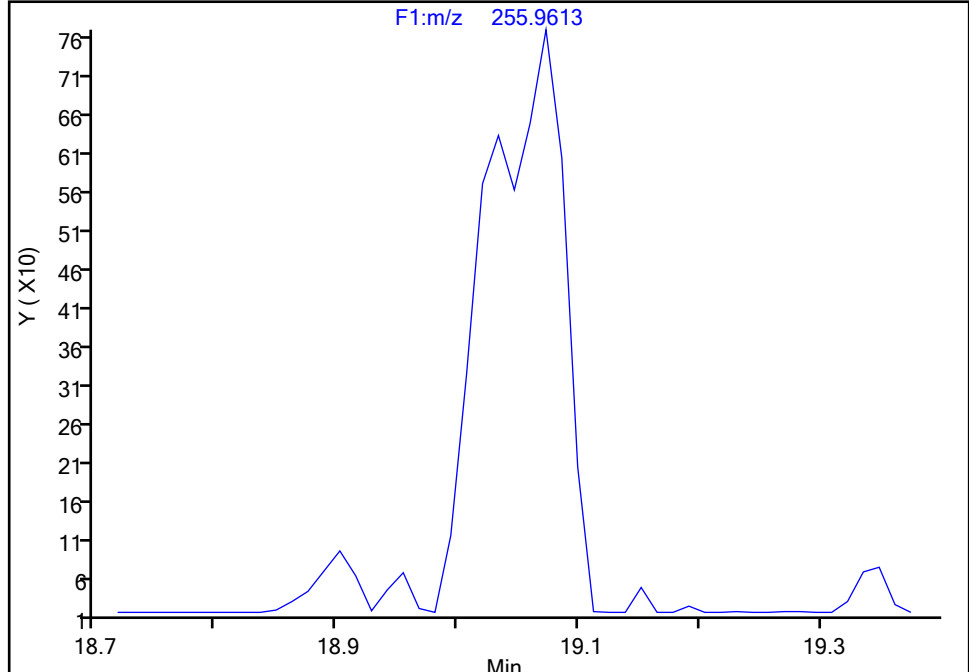
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Injection Date: 28-Jun-2024 16:52:00 Instrument ID: D2D  
Lims ID: 140-36940-A-6-C Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1\IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

**PCB-18/30, CAS: STL01798**

Signal: 1

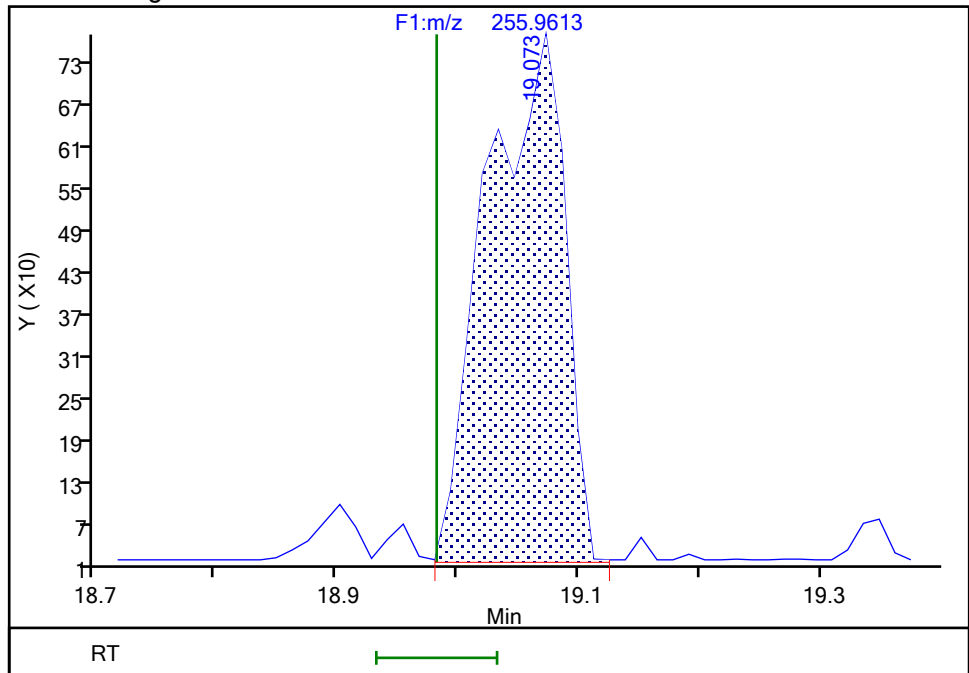
Not Detected  
Expected RT: 18.98

## Processing Integration Results



RT: 19.07  
Area: 3377  
Amount: 0.118596  
Amount Units: pg/ul

## Manual Integration Results



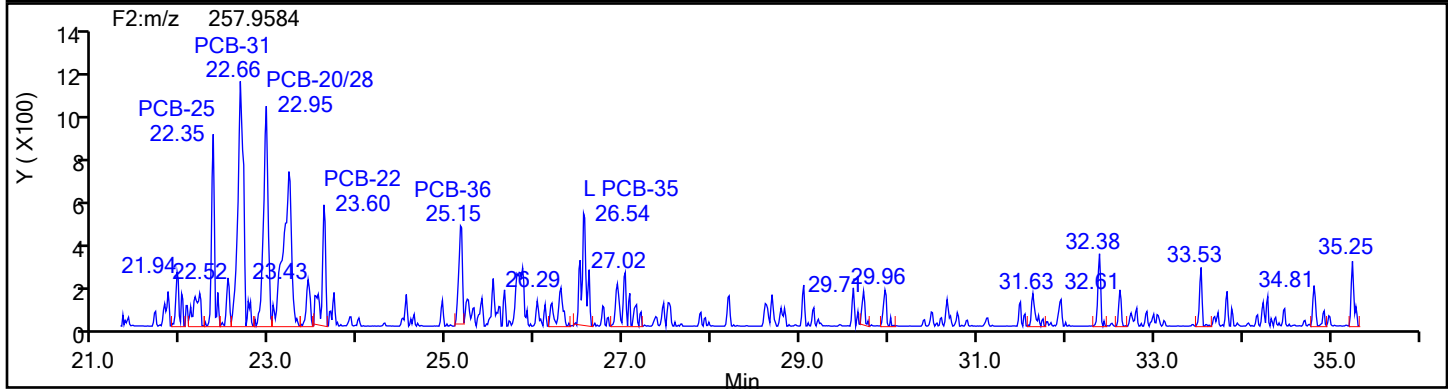
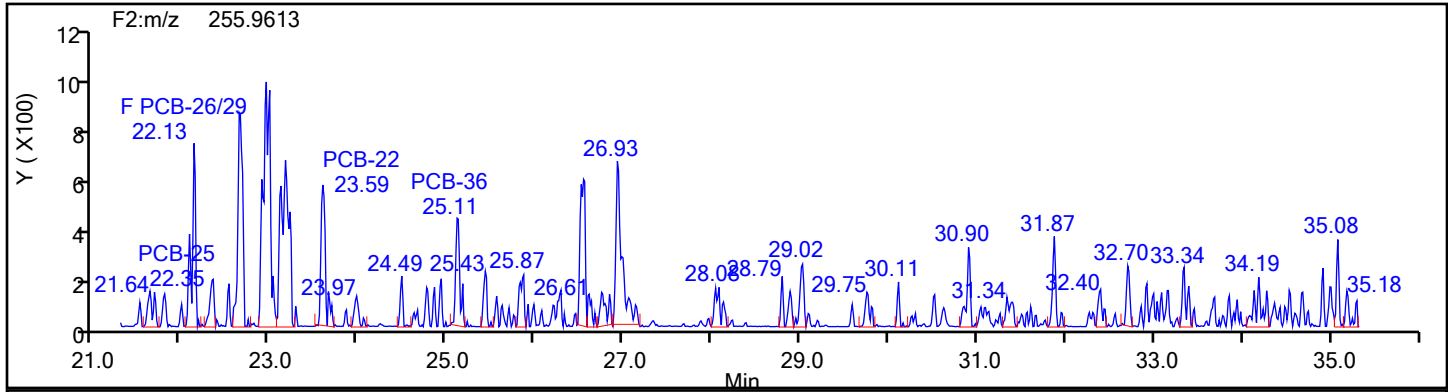
Reviewer: P0IK, 29-Jun-2024 11:29:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

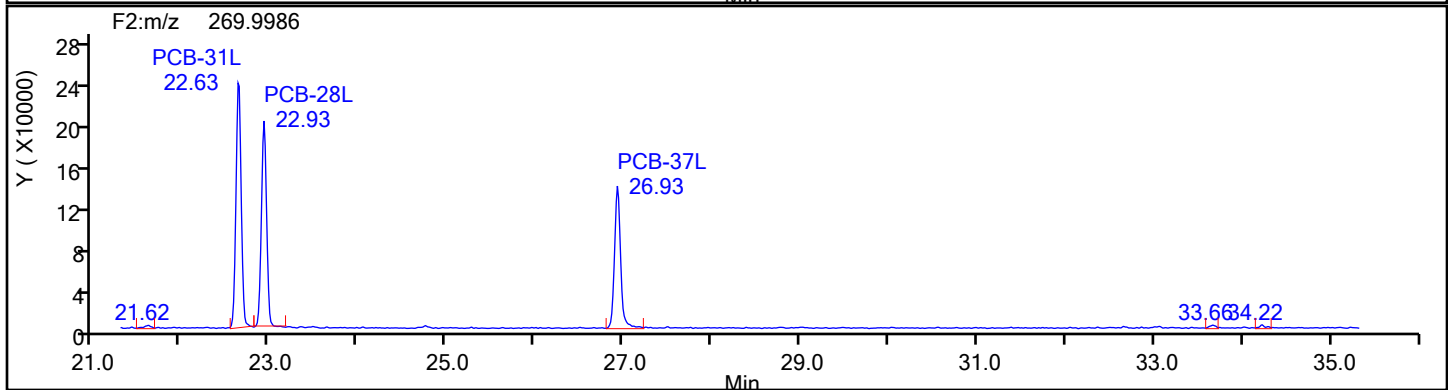
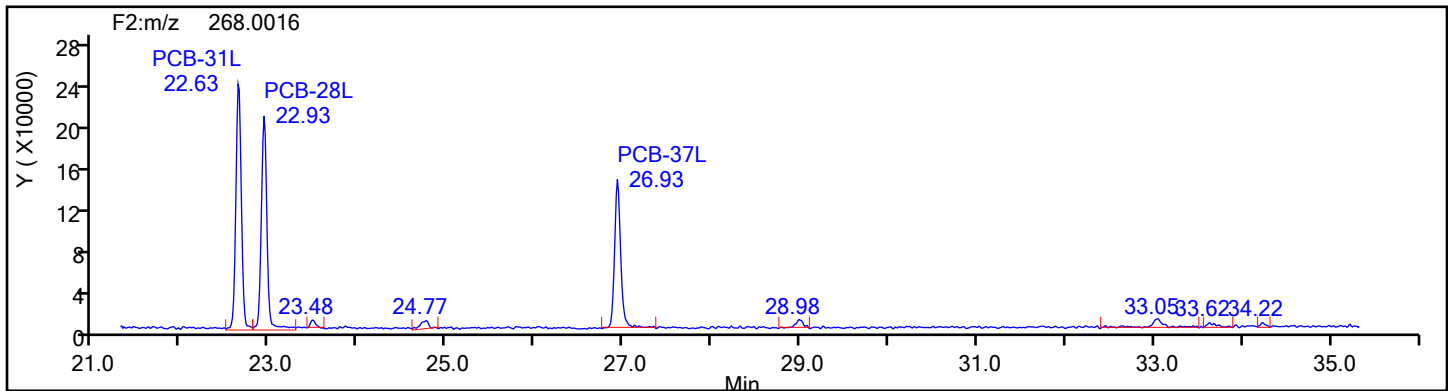
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

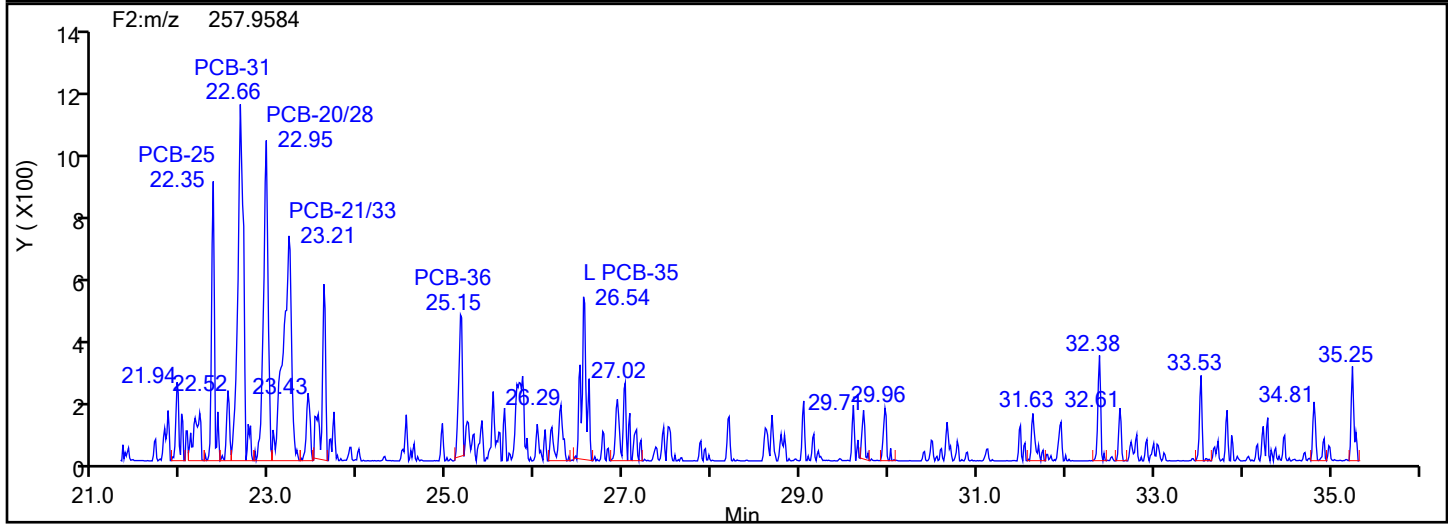
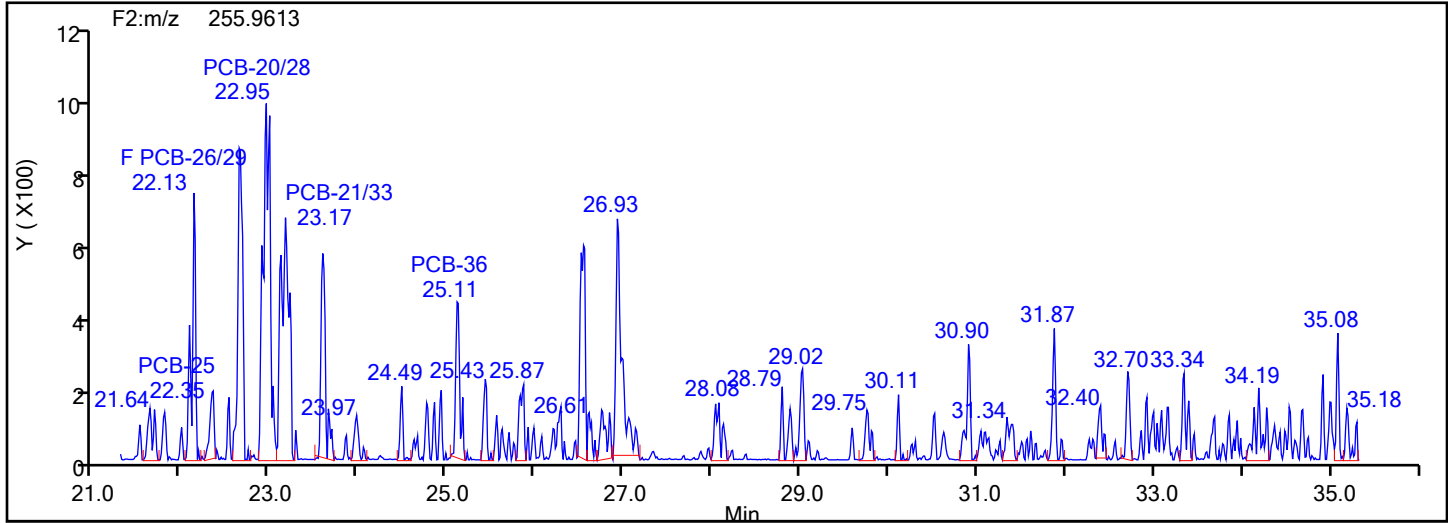


## TriPCB F2 Standards

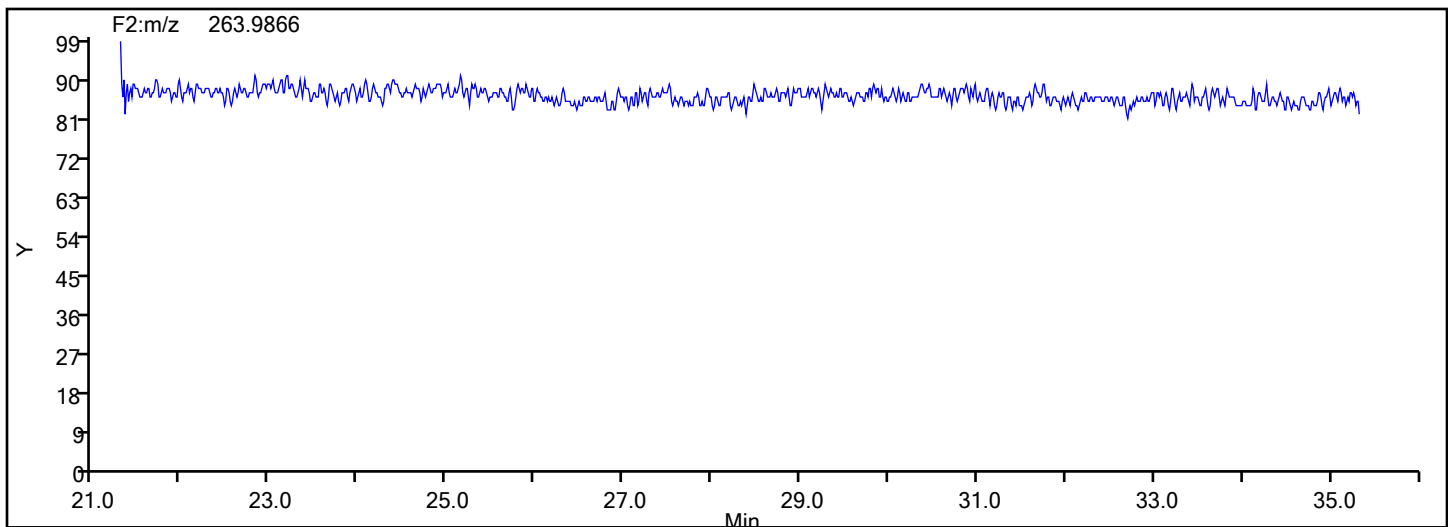


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

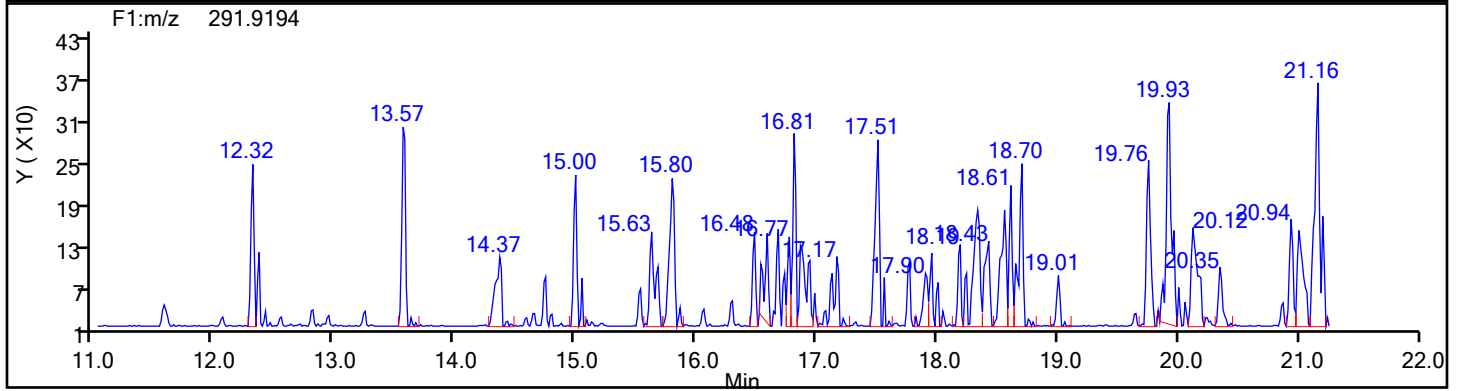
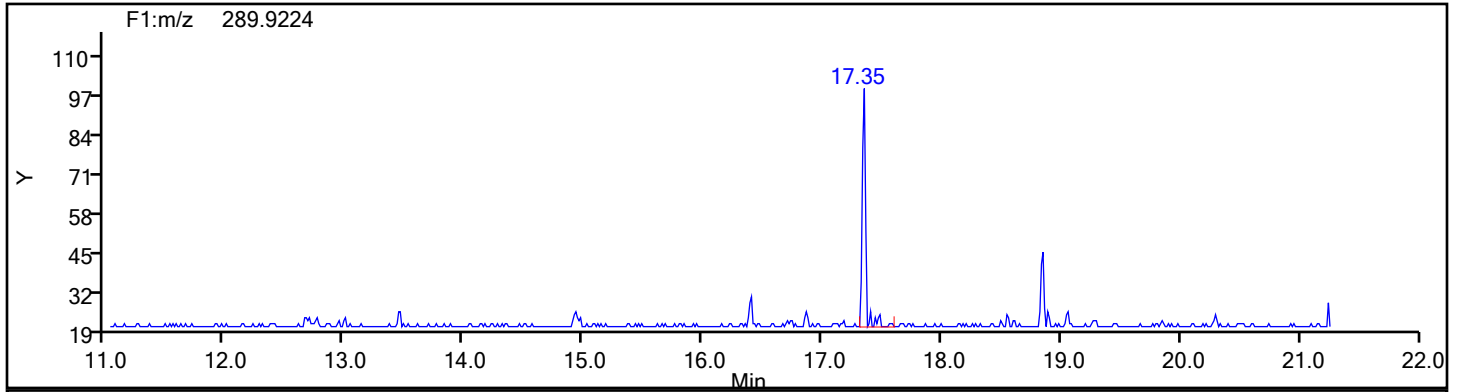


## TriPCB F2 Lock Mass

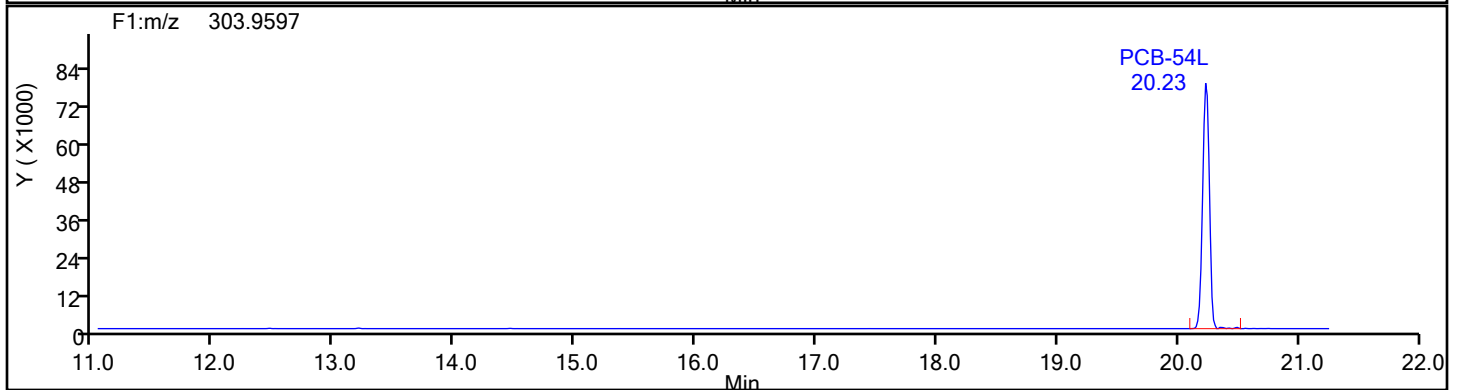
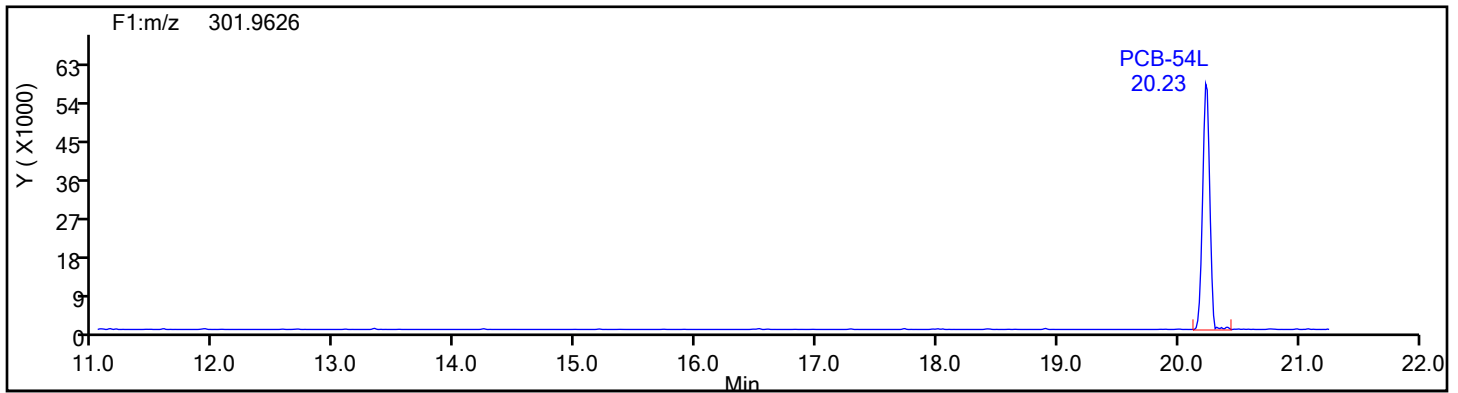


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1



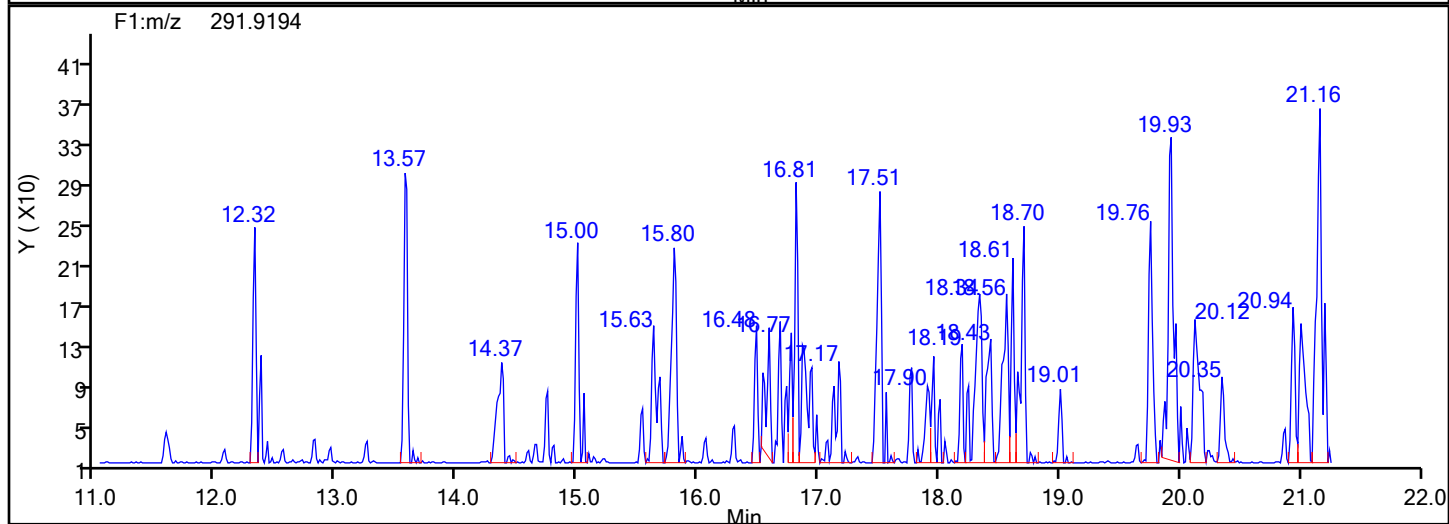
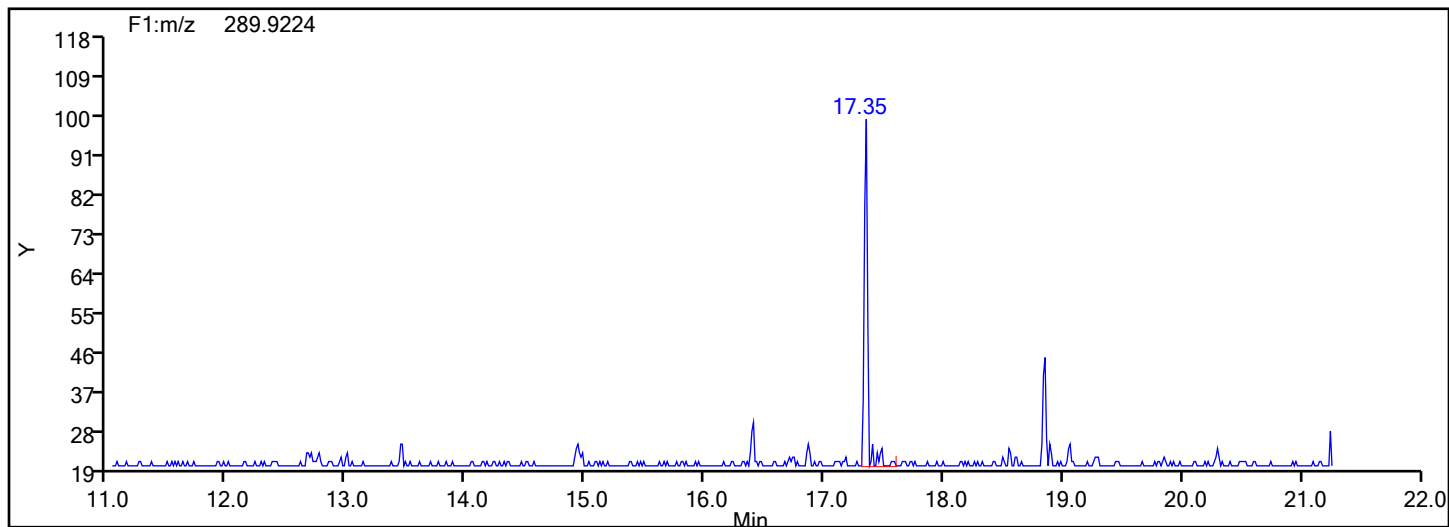
## TePCB F1 Standards



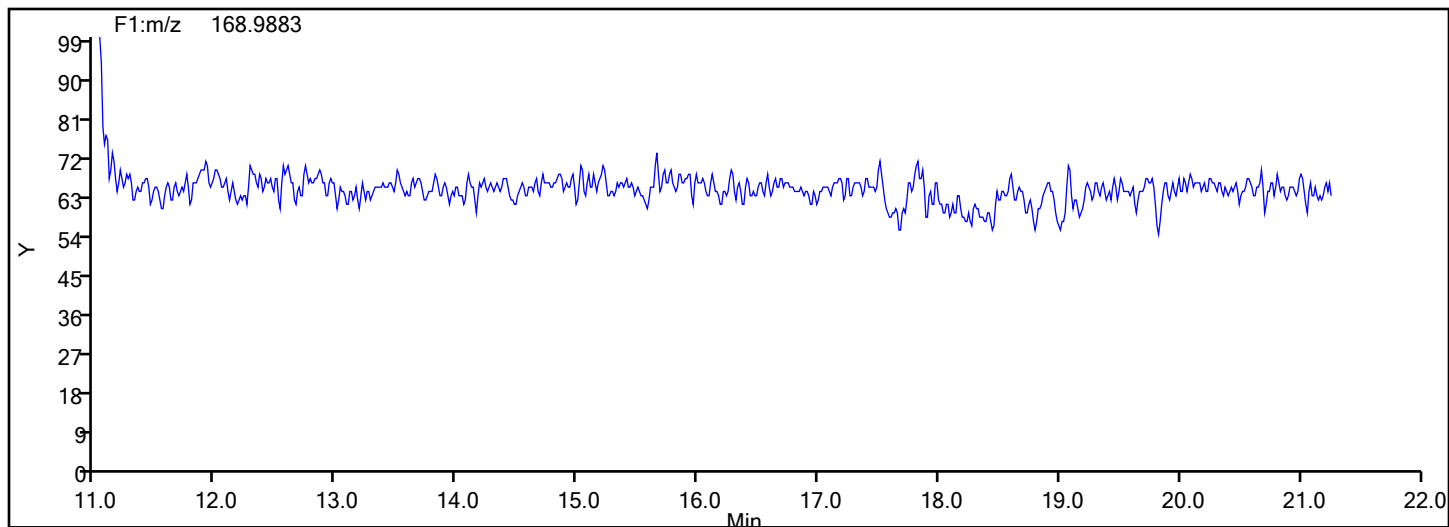


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

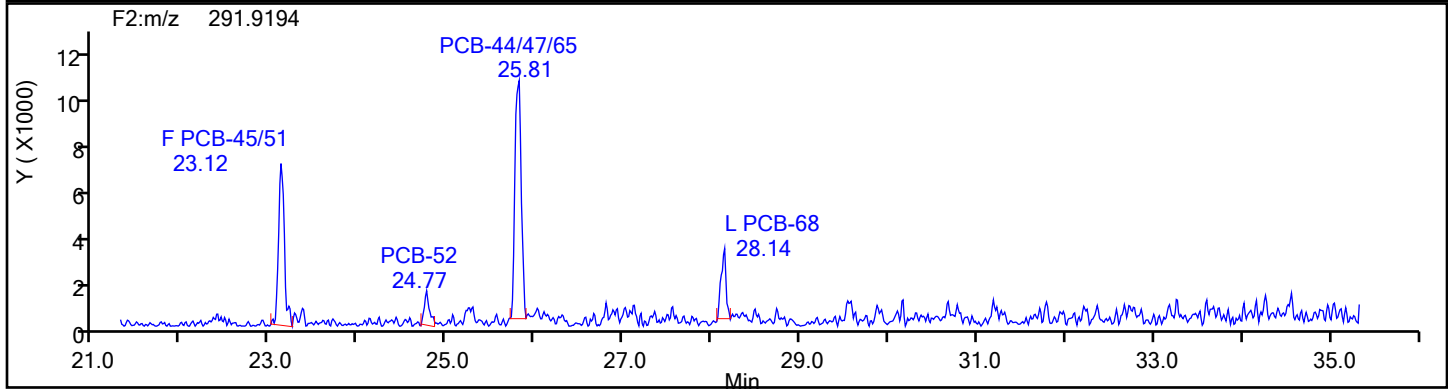
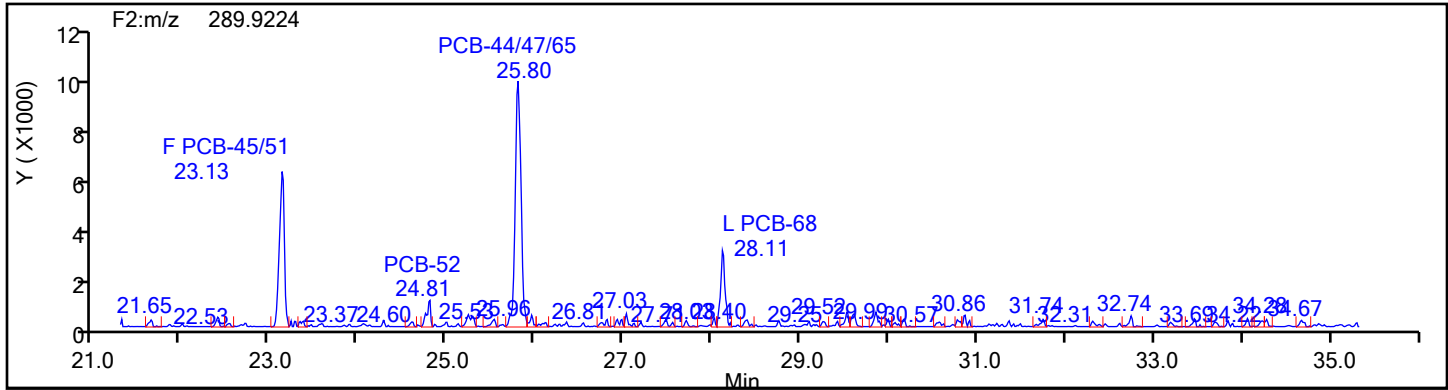


## TePCB F1 Lock Mass

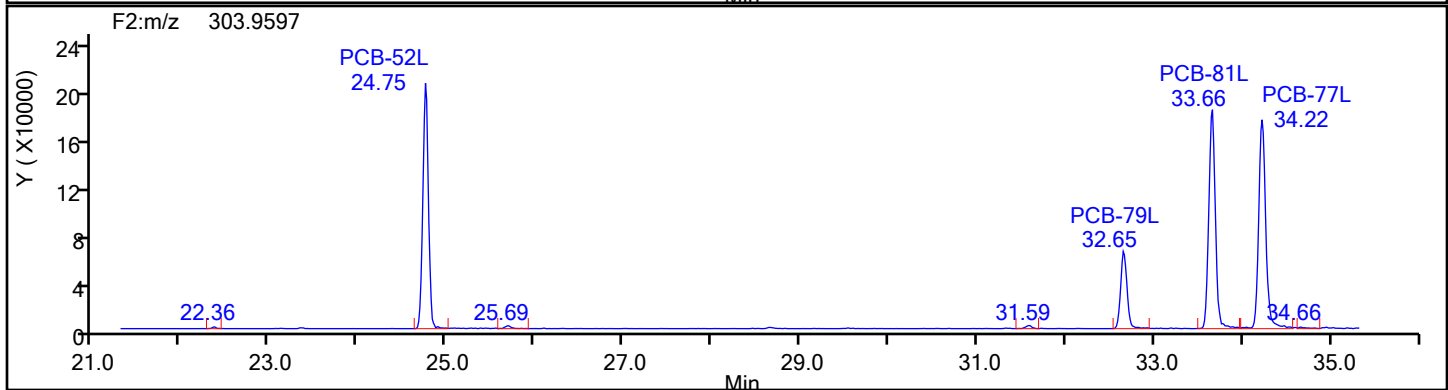
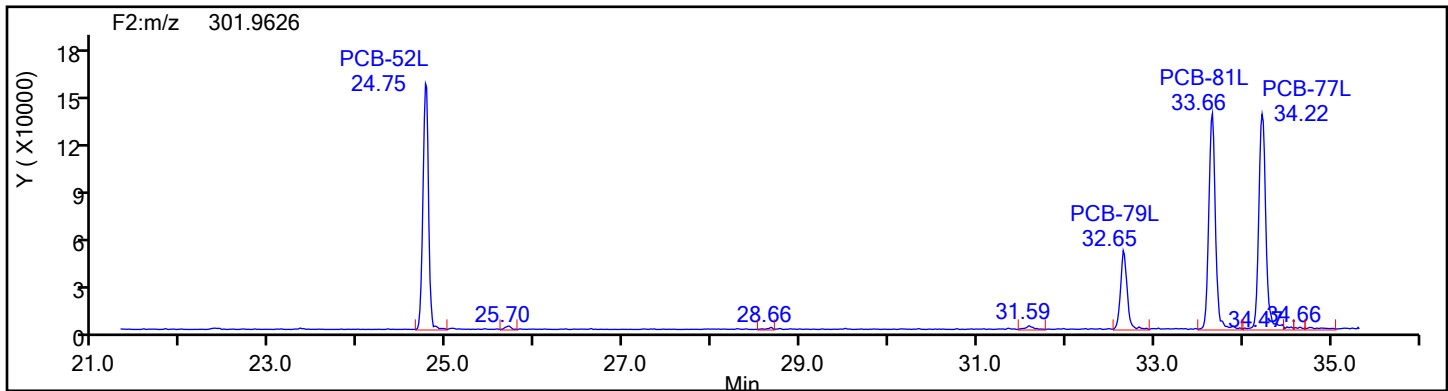


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

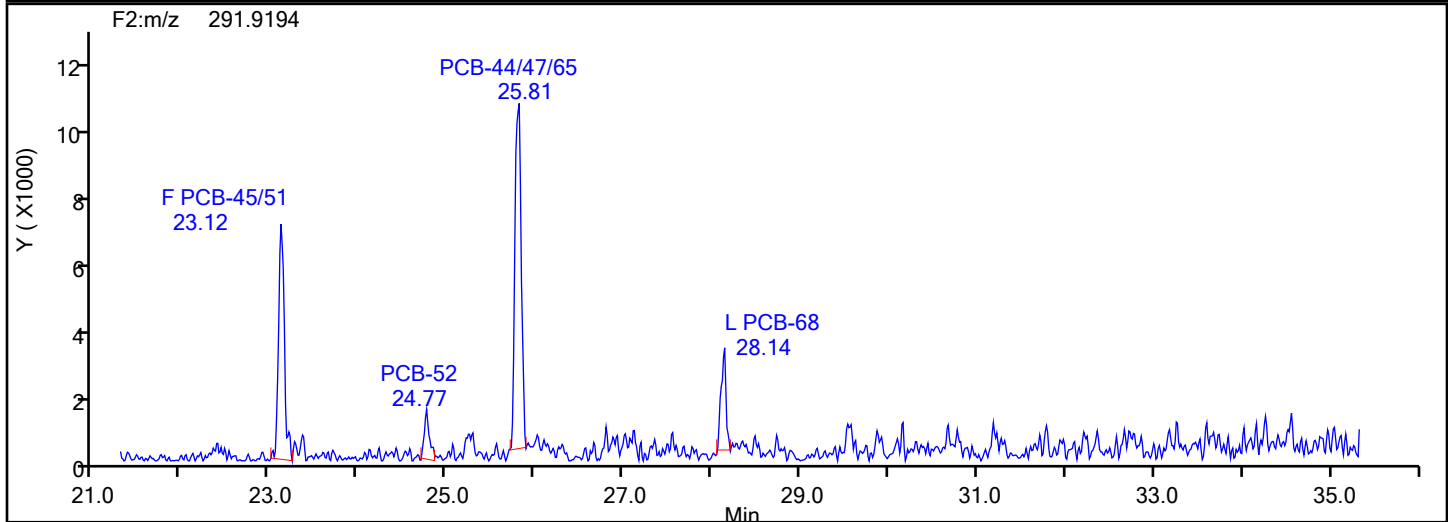
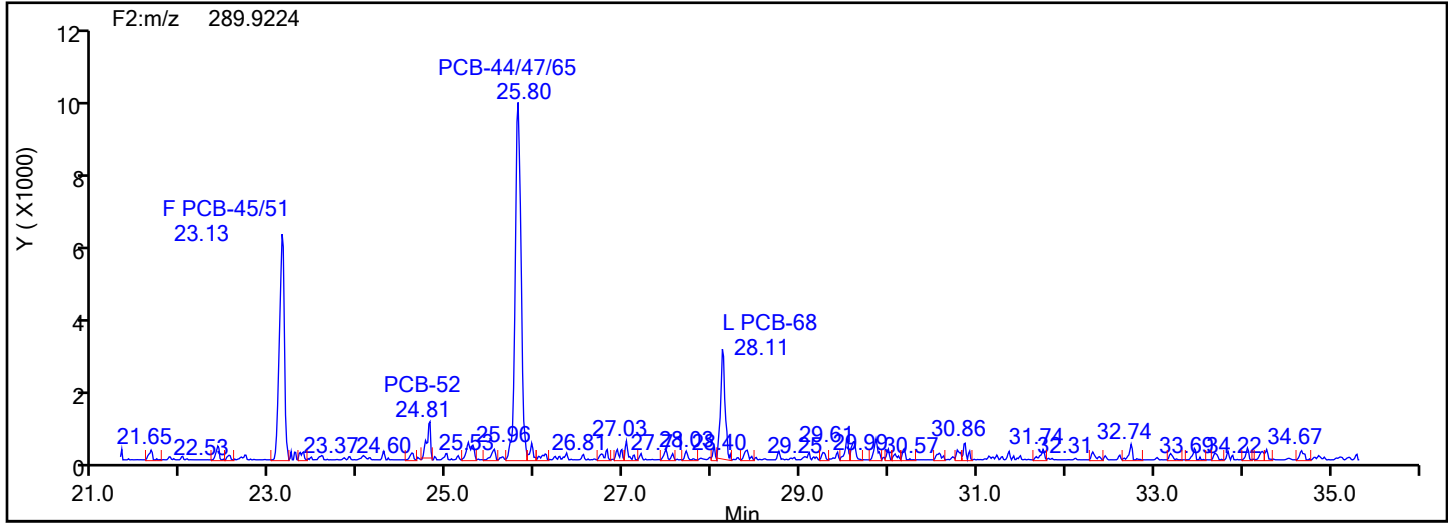


## TePCB F2 Standards

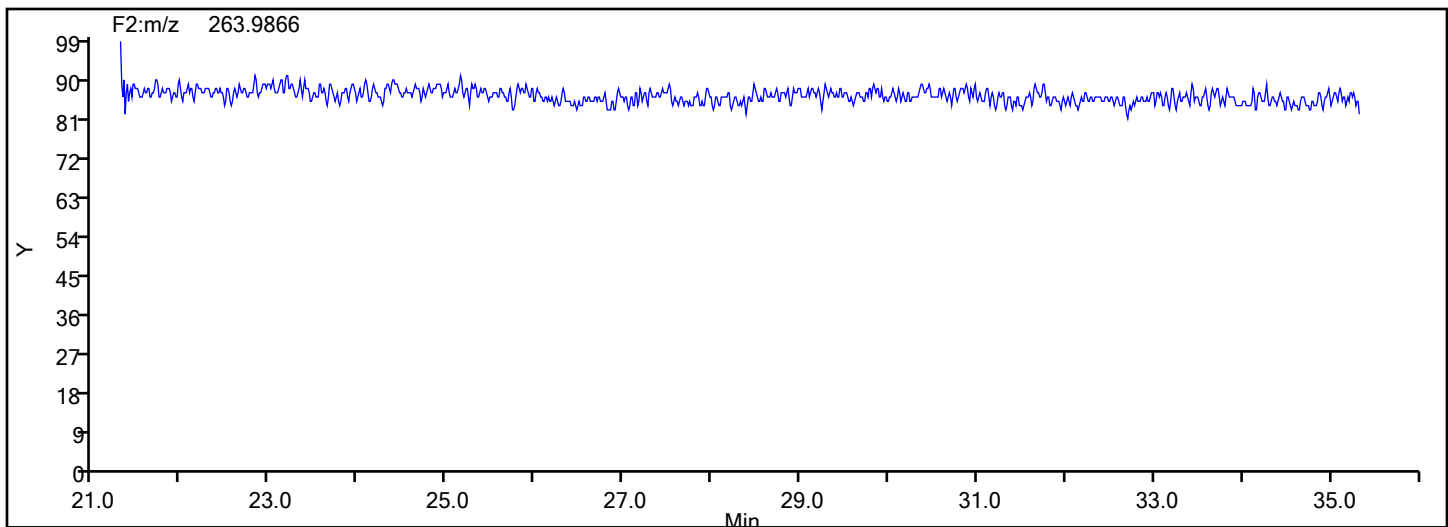


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

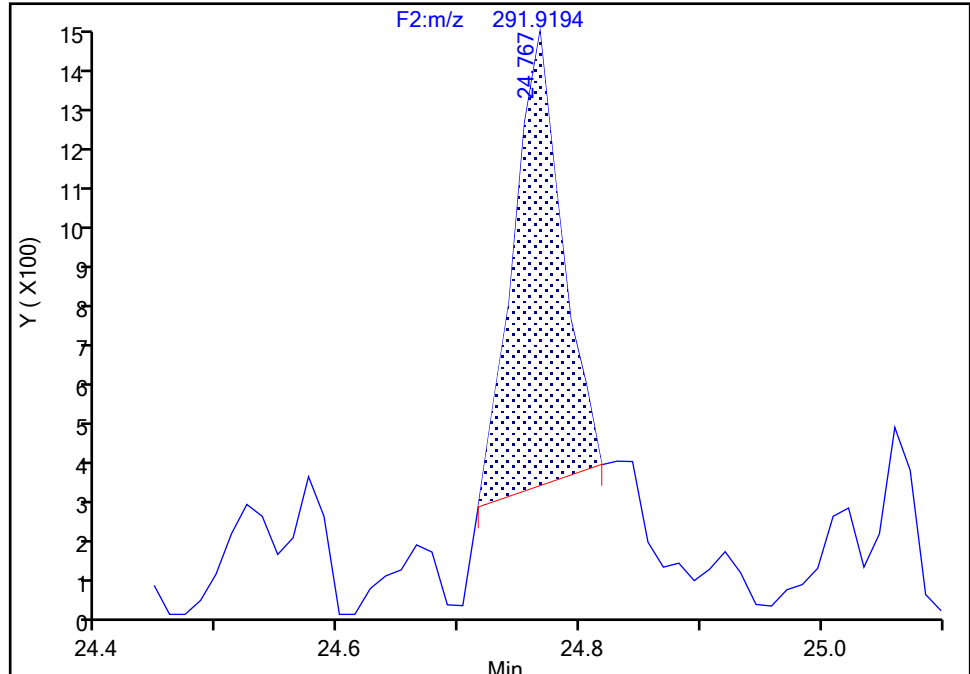
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Injection Date: 28-Jun-2024 16:52:00 Instrument ID: D2D  
Lims ID: 140-36940-A-6-C Lab Sample ID: 140-36940-6  
Client ID: M23 - EPN 4-1\IN-701-RUN 6-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

PCB-52, CAS: 35693-99-3

Signal: 2

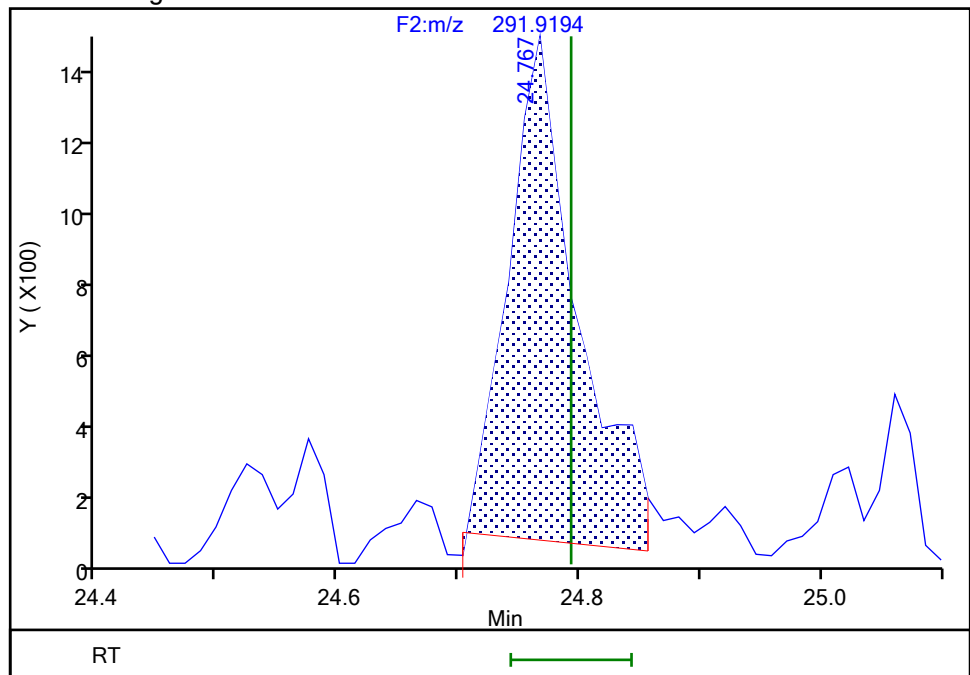
RT: 24.77  
Area: 3206  
Amount: 0.076738  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.77  
Area: 5564  
Amount: 0.106881  
Amount Units: pg/ul

## Manual Integration Results



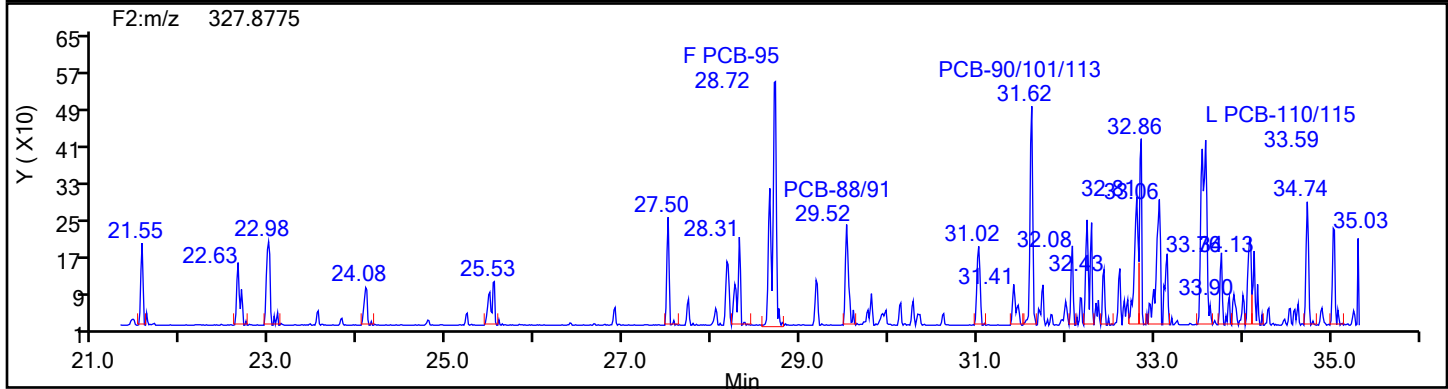
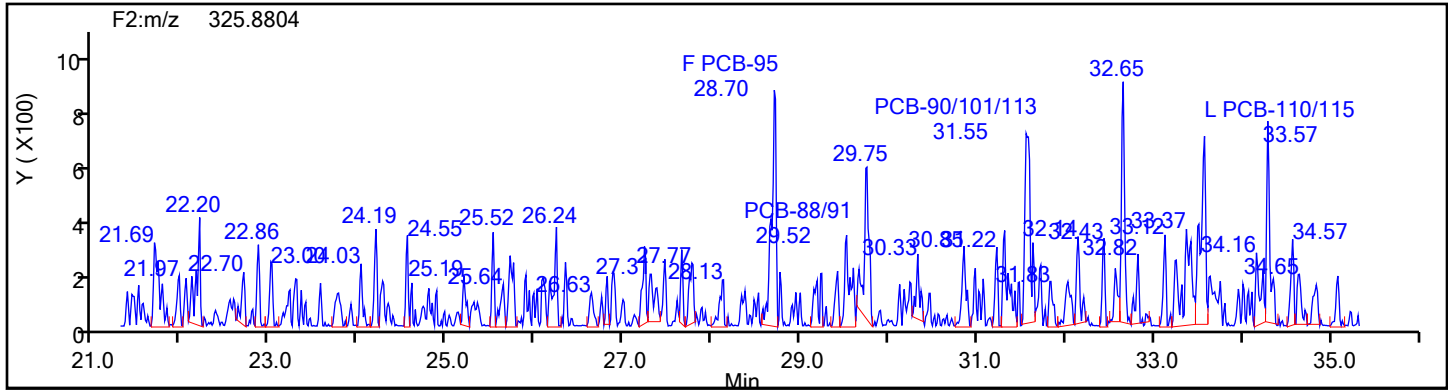
Reviewer: P0IK, 29-Jun-2024 11:30:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

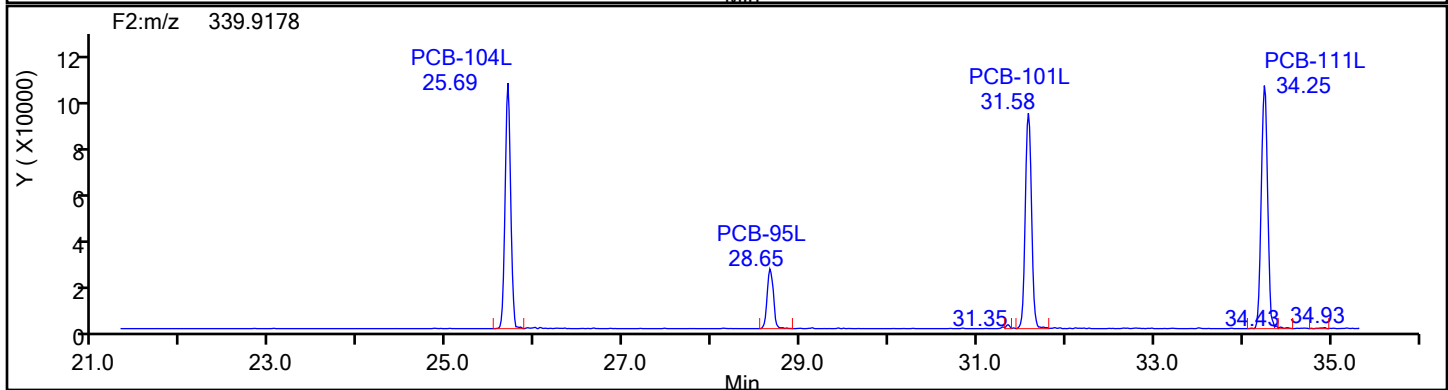
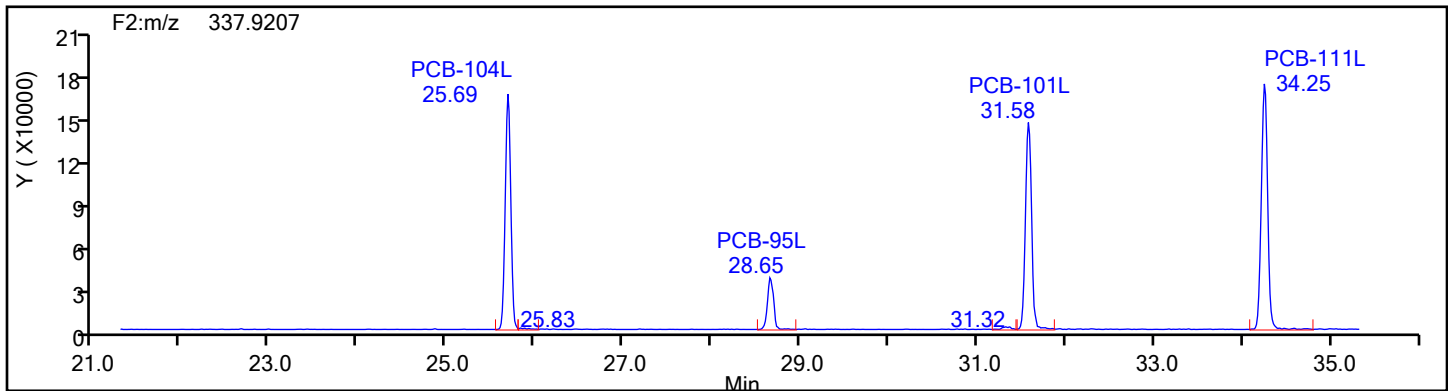
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

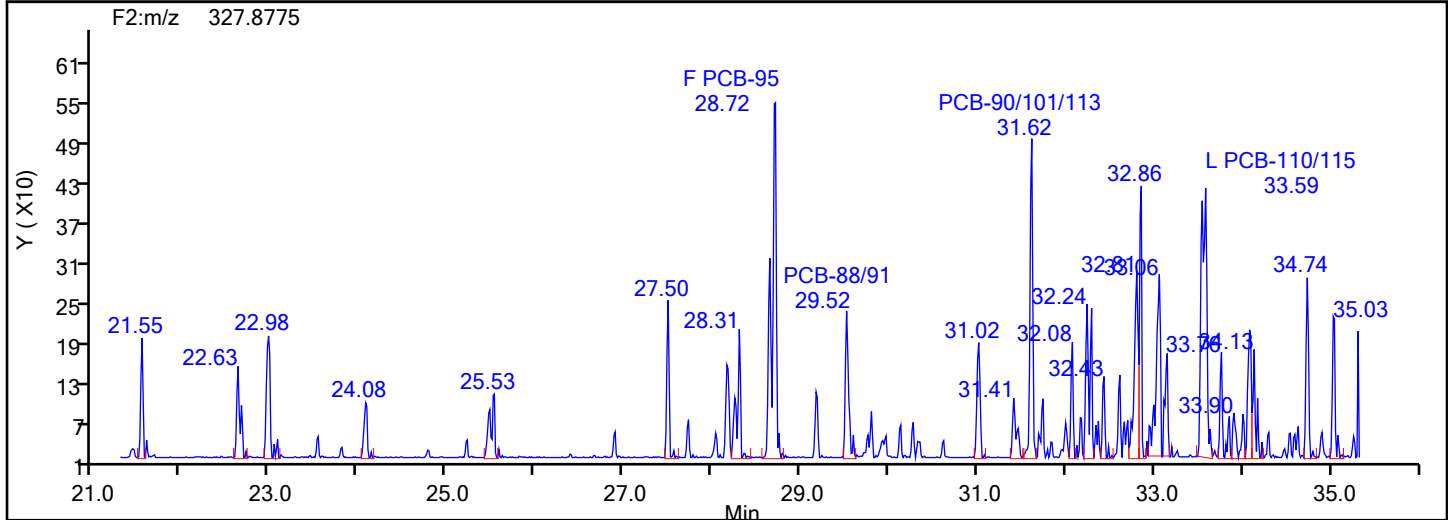
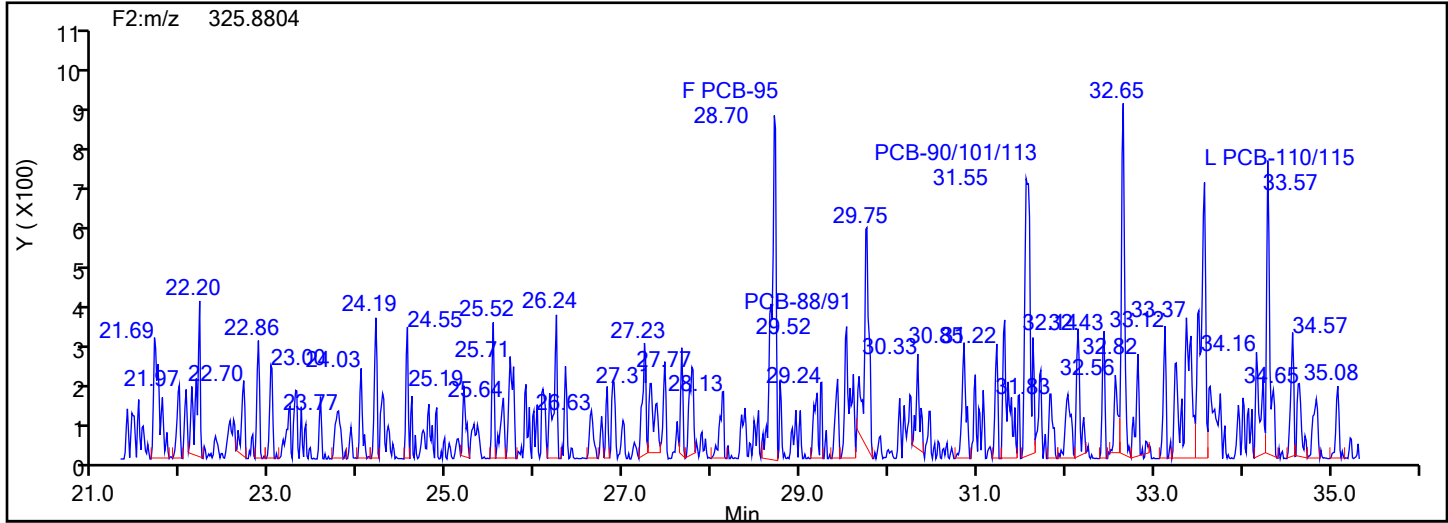


## PePCB F2 Standards

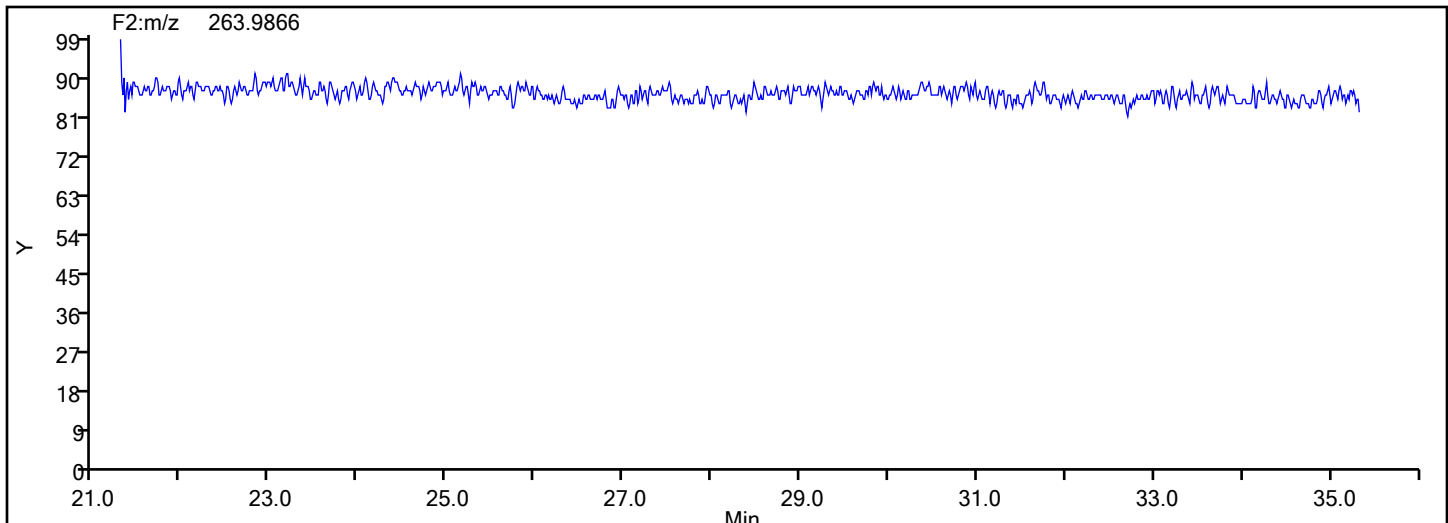


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

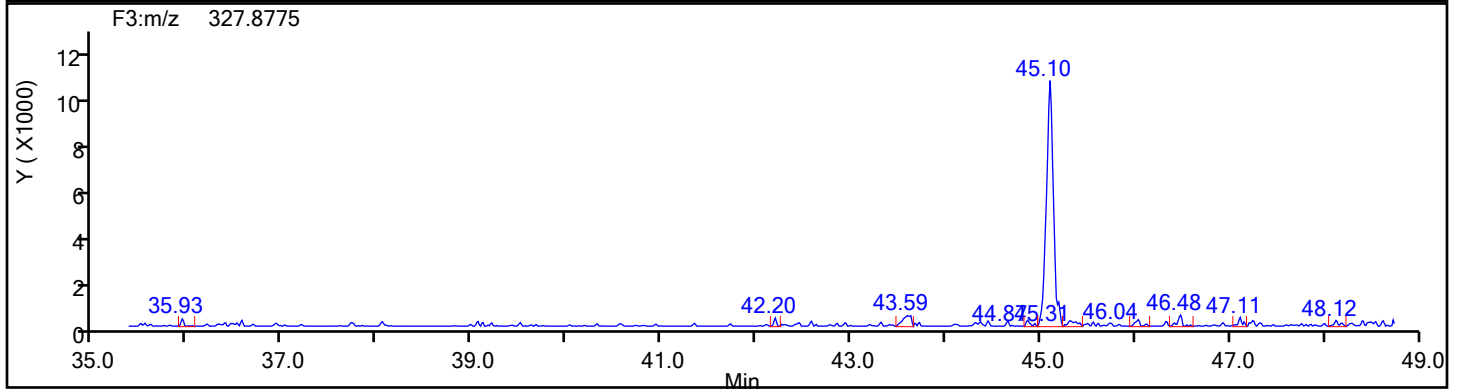
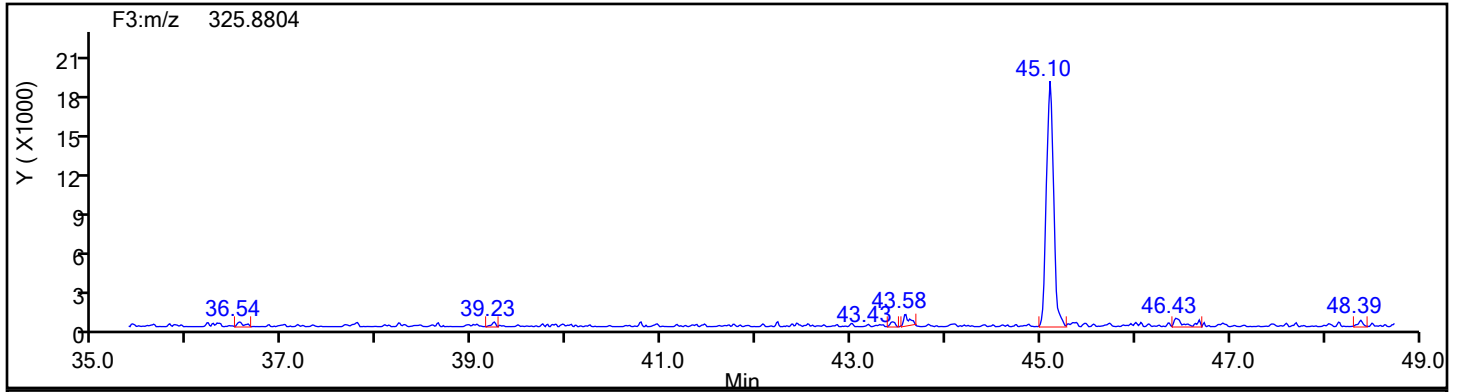


## PePCB F2 Lock Mass

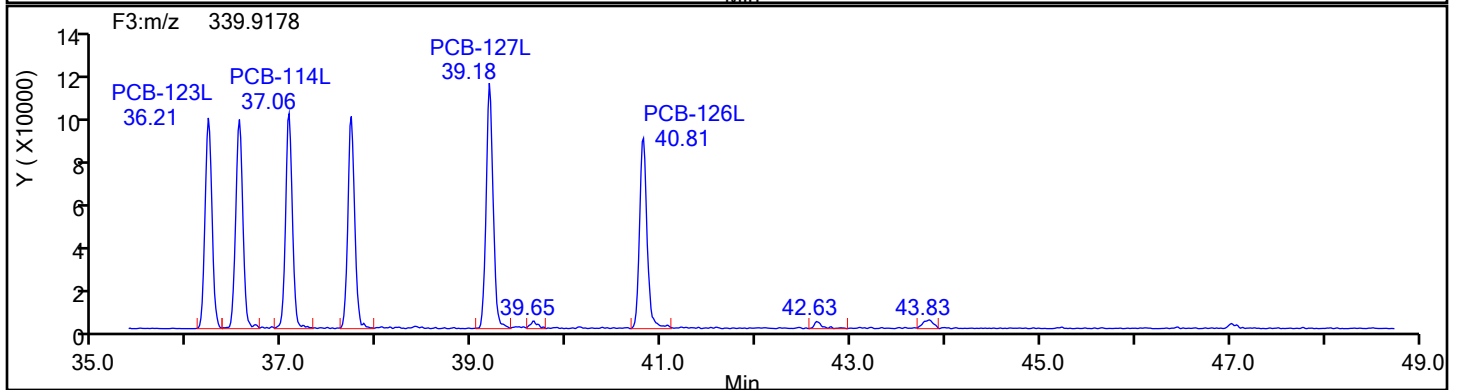
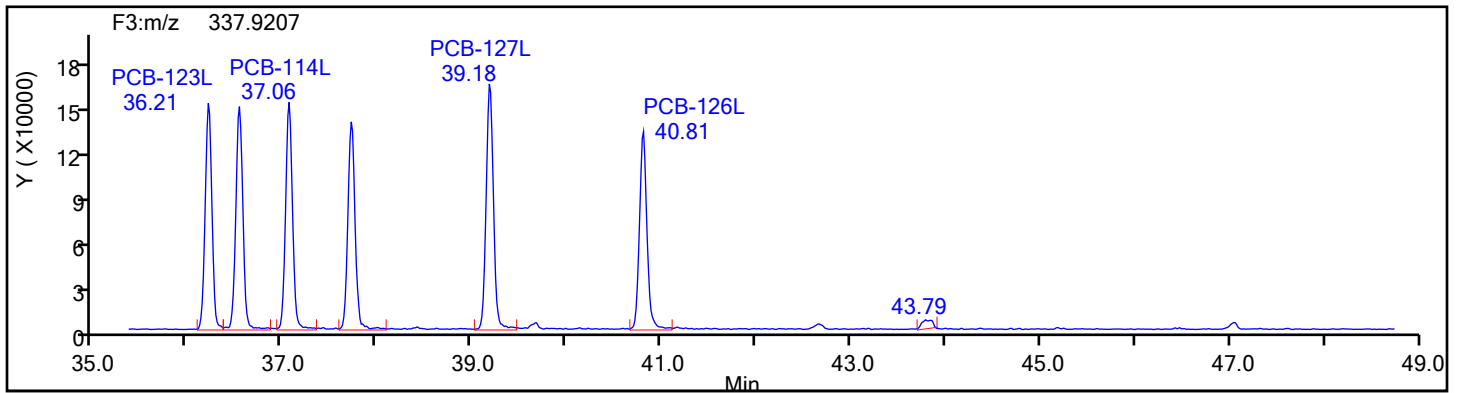


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

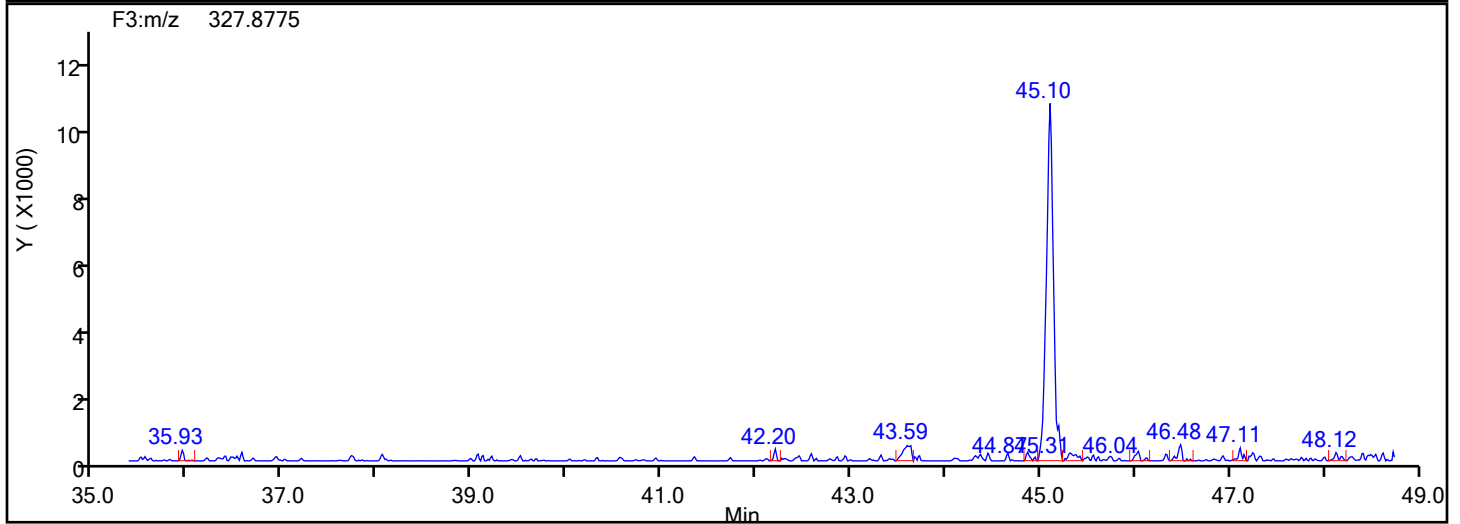
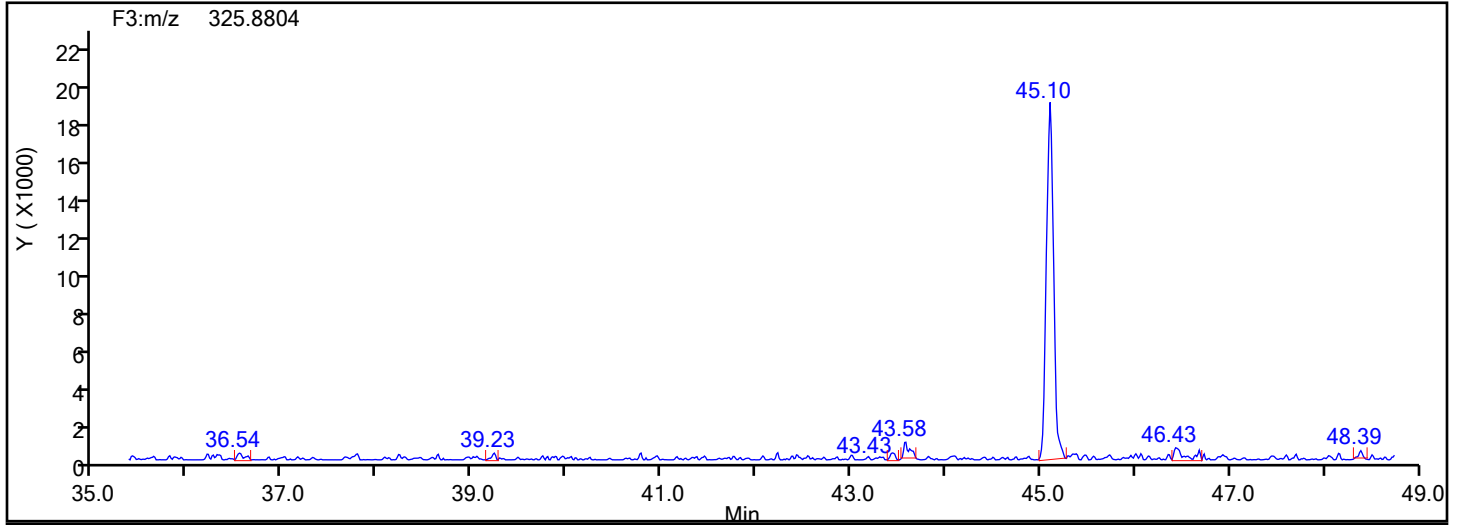


## PePCB F3 Standards

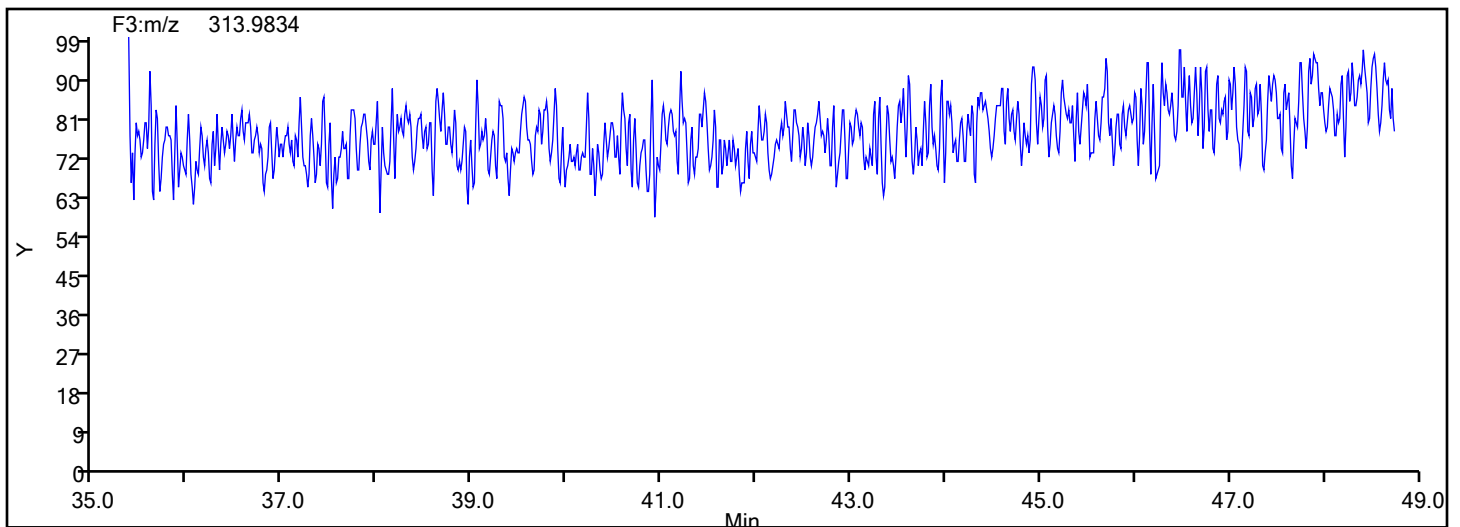


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3



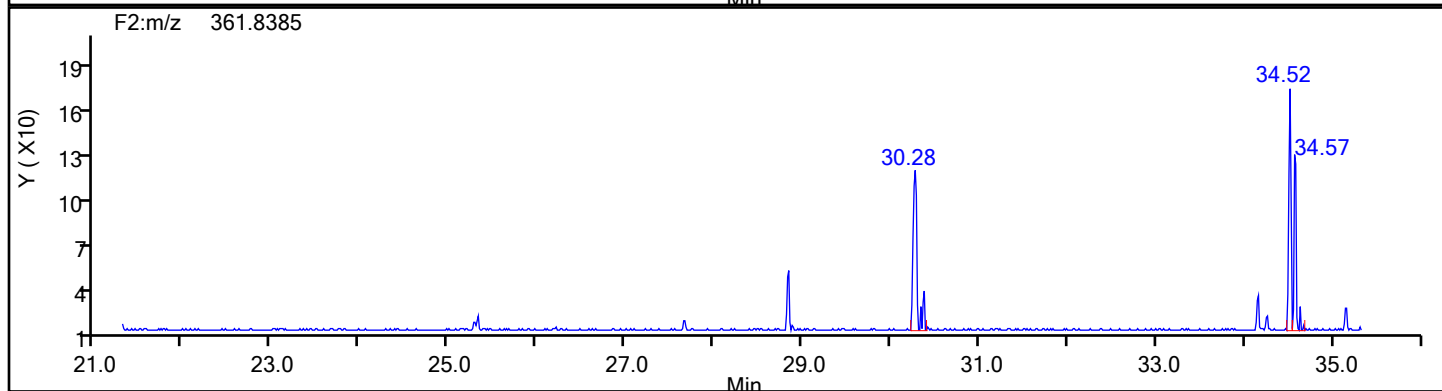
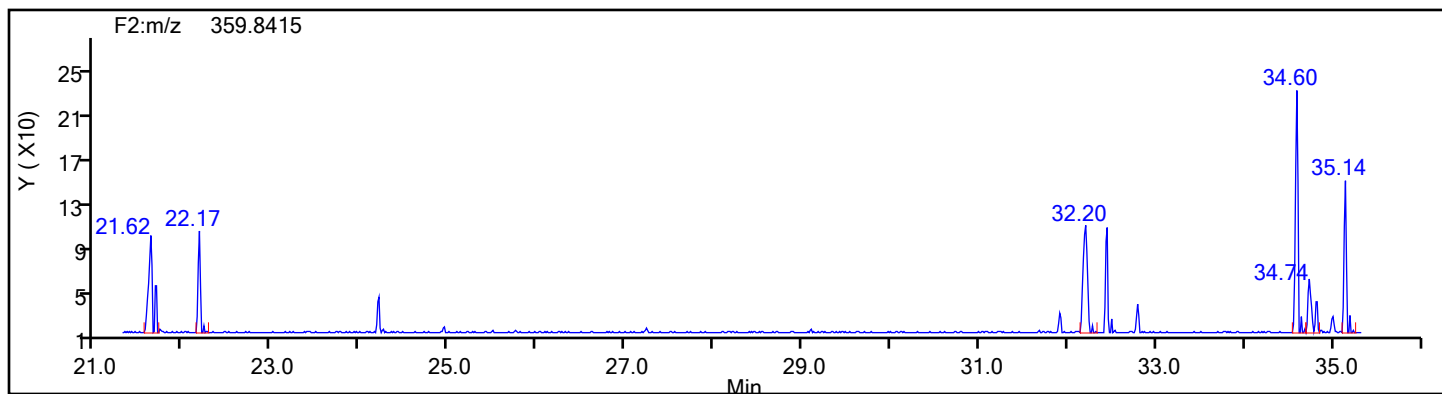
## PePCB F3 Lock Mass



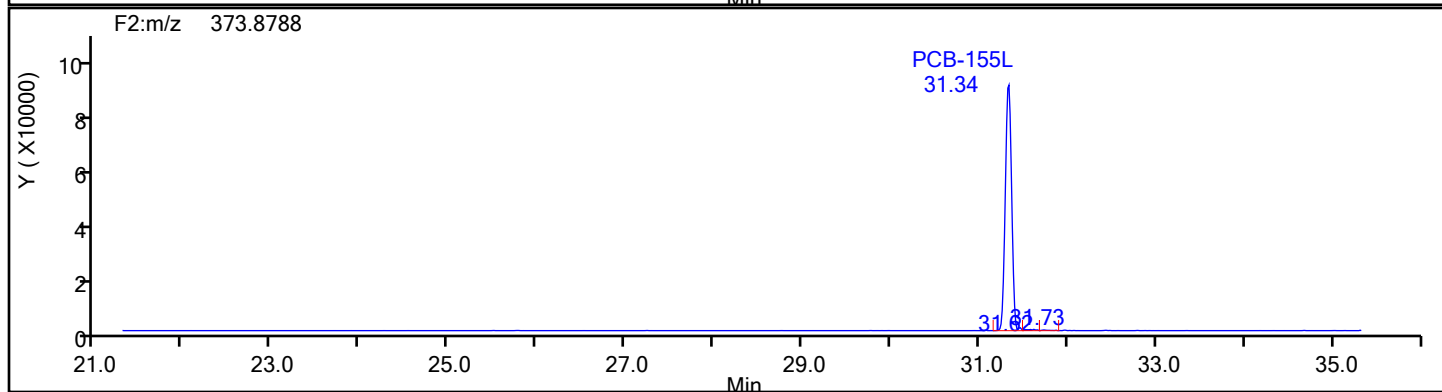
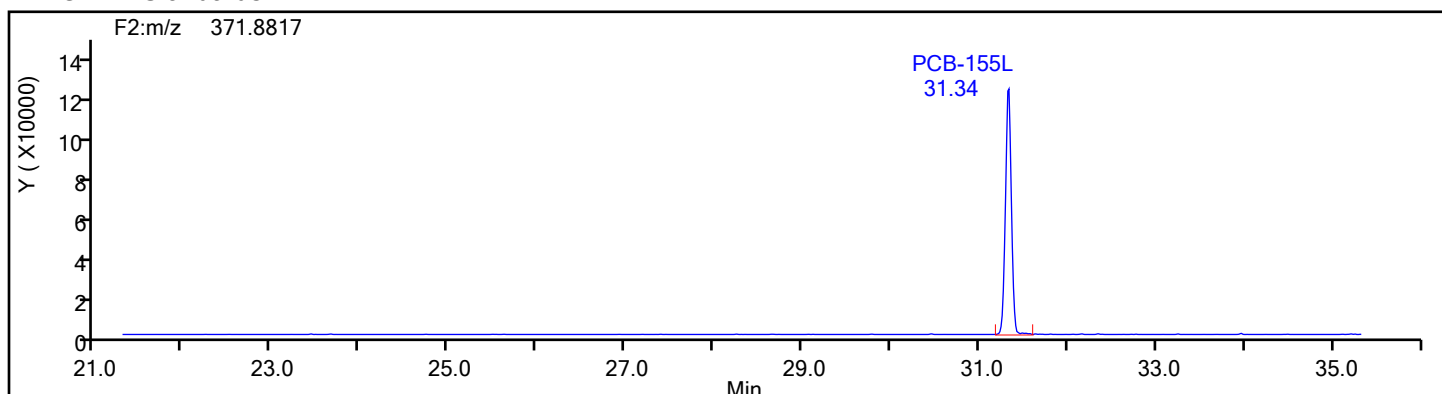


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

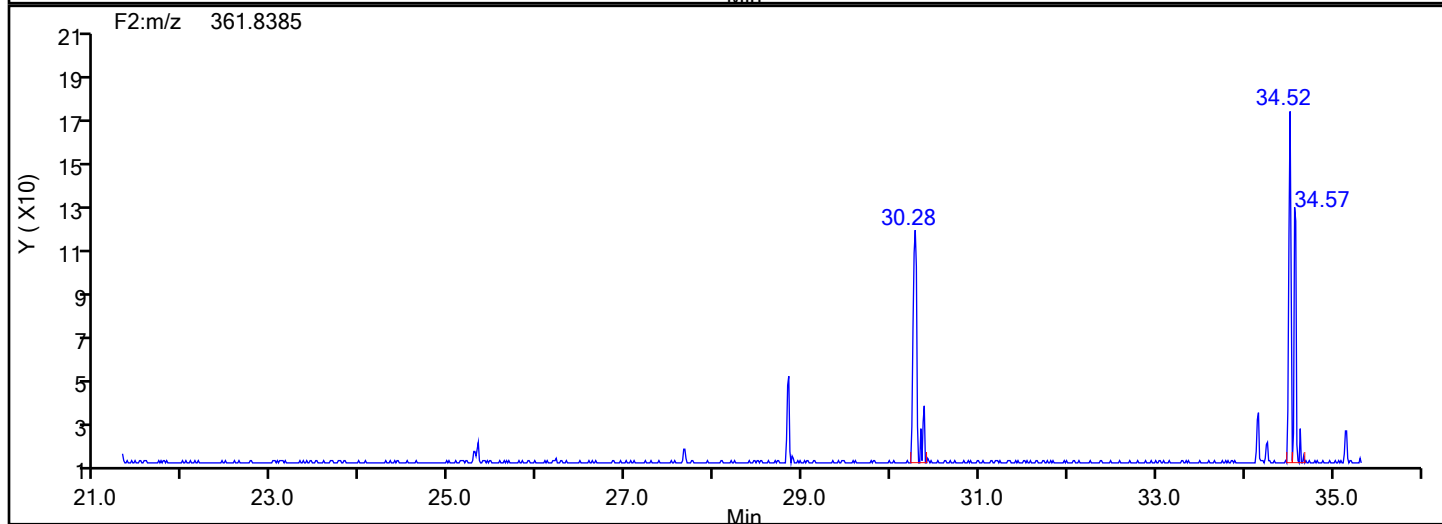
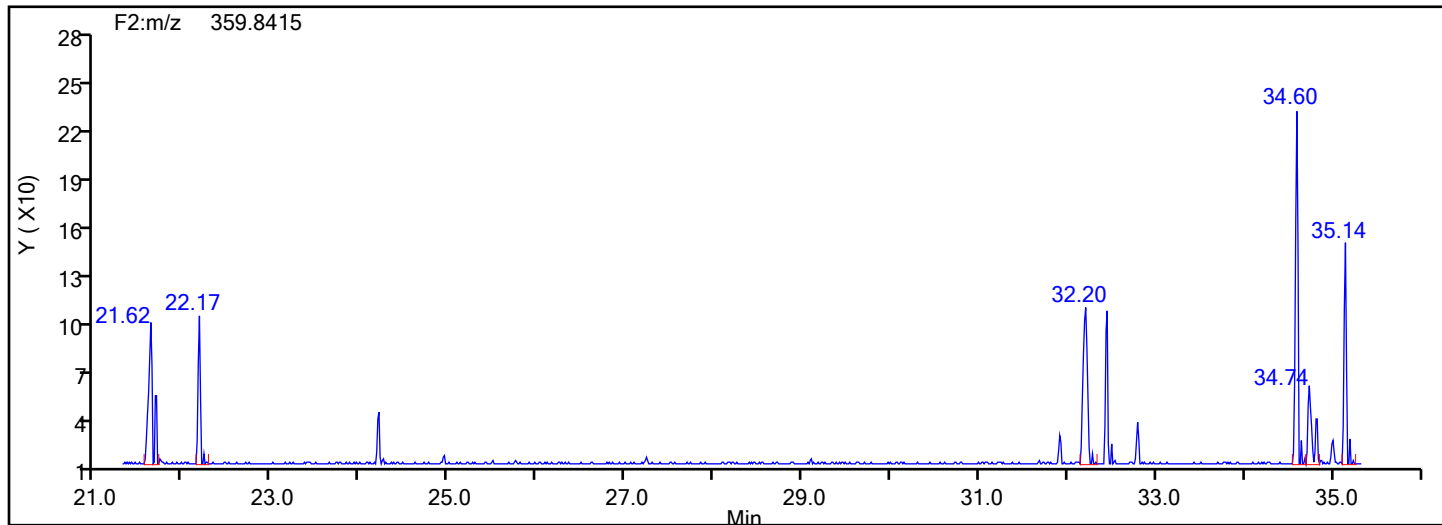


## HxPCB F2 Standards

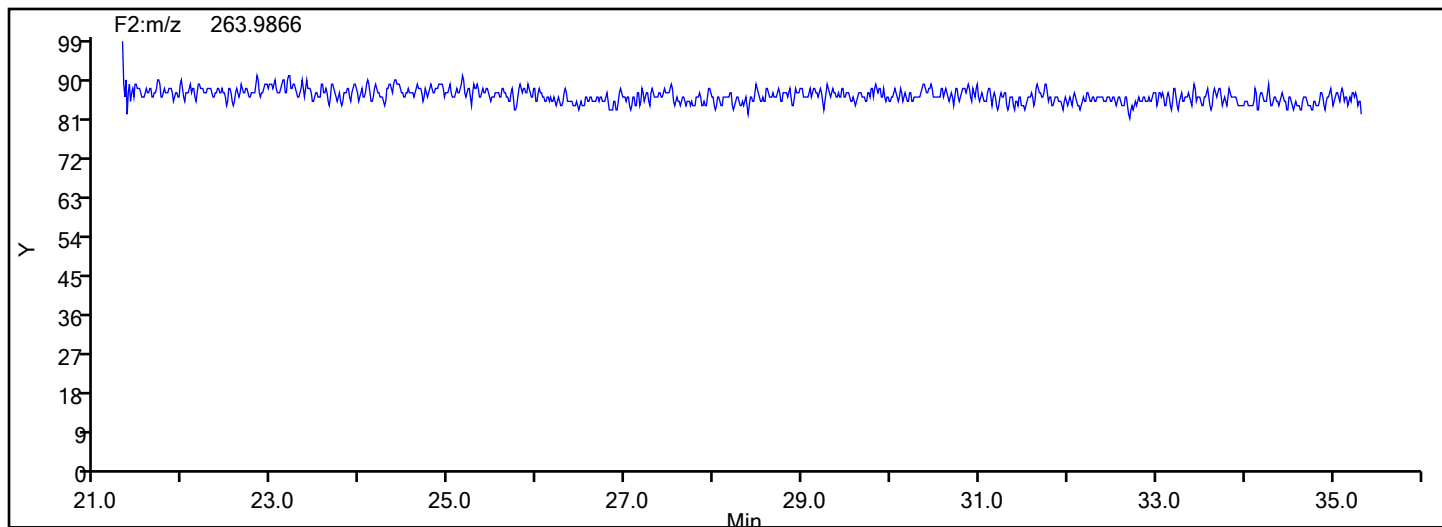


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

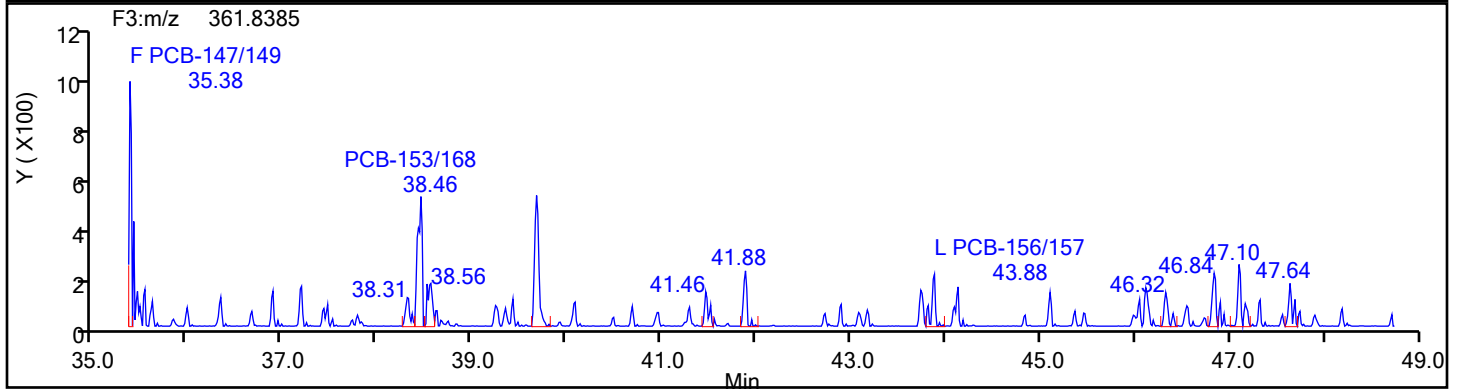
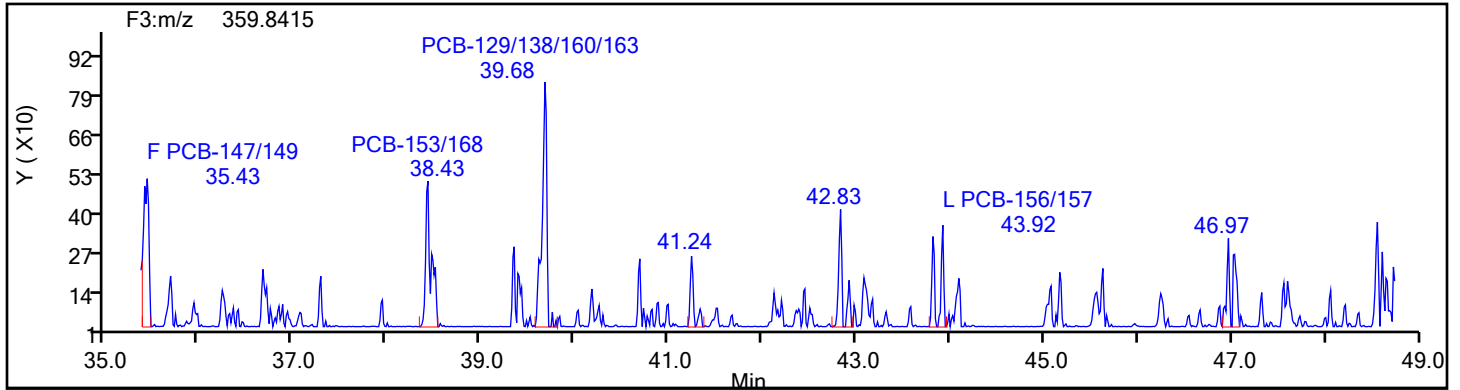


## HxPCB F2 Lock Mass

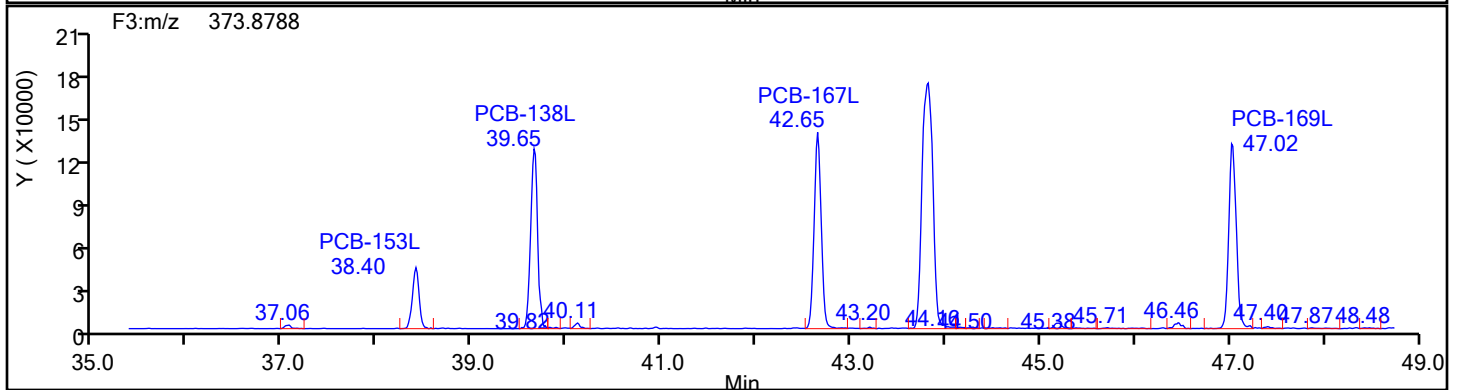
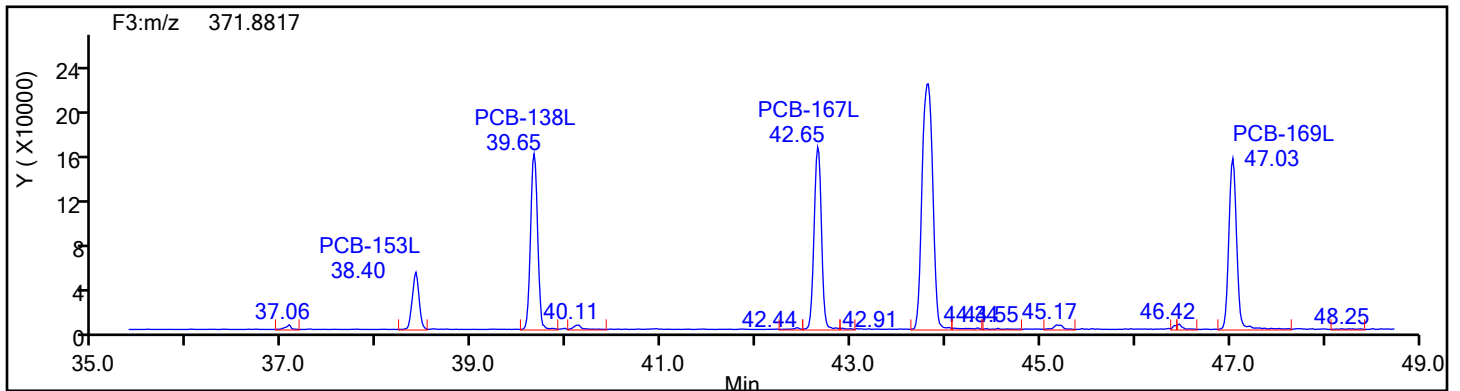


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3

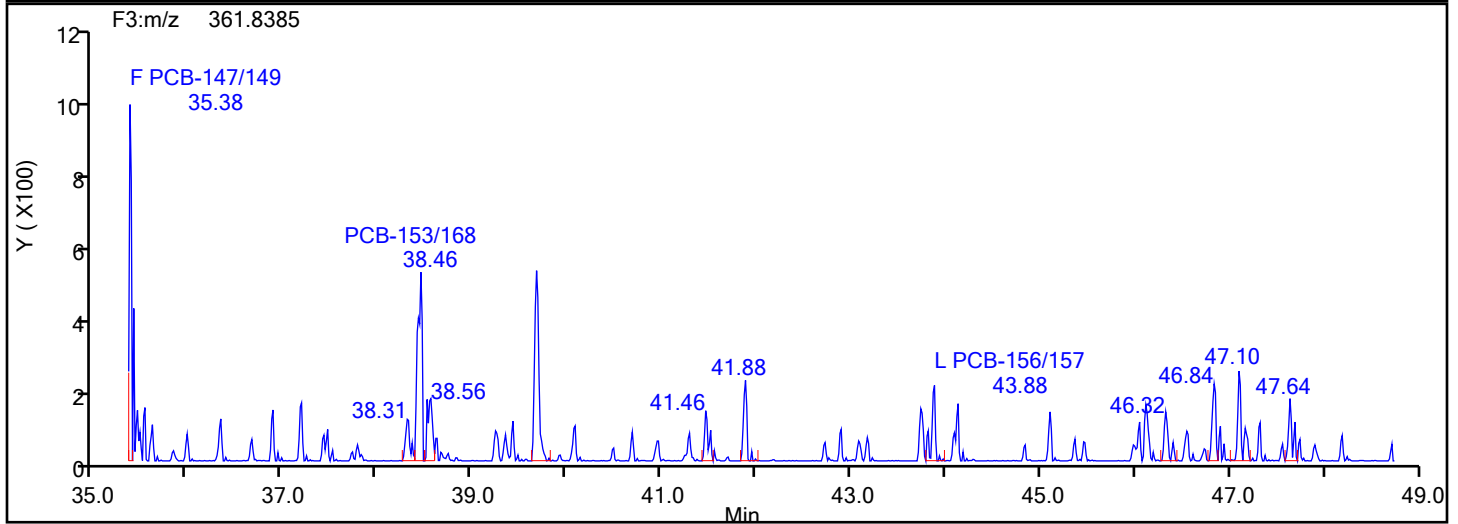
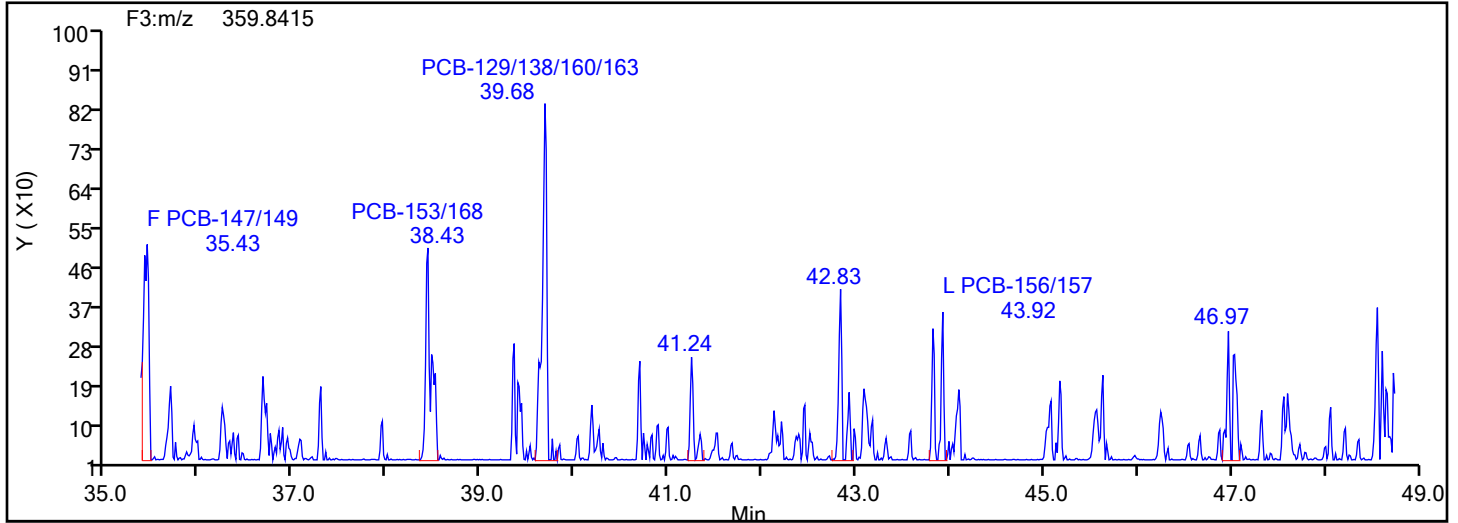


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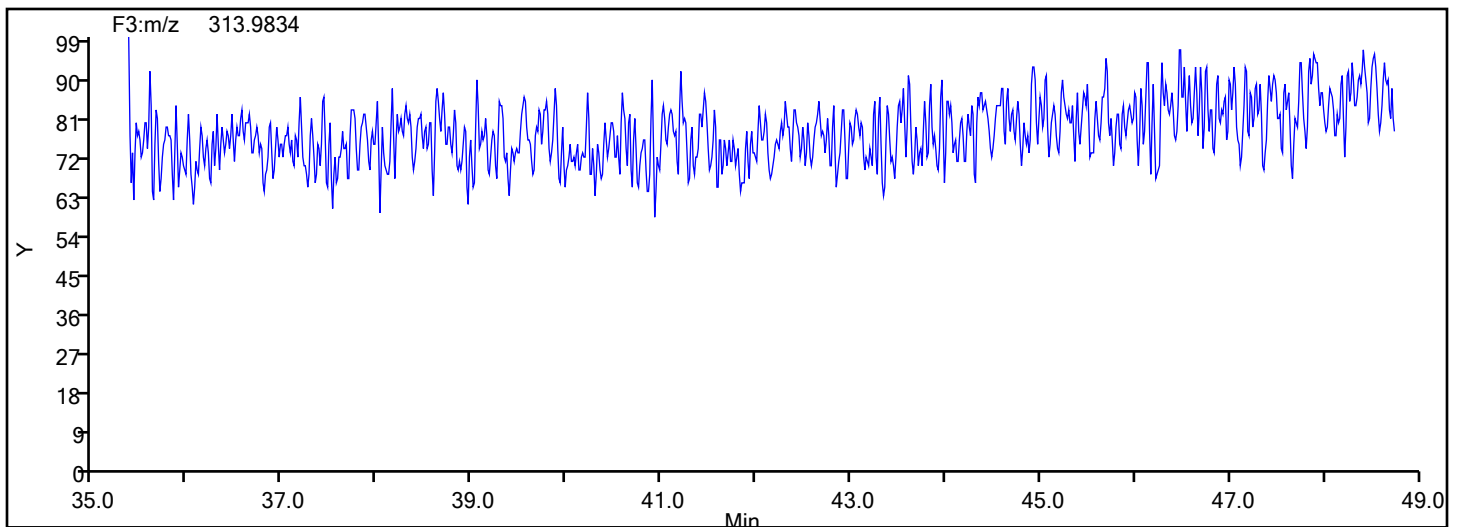


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3

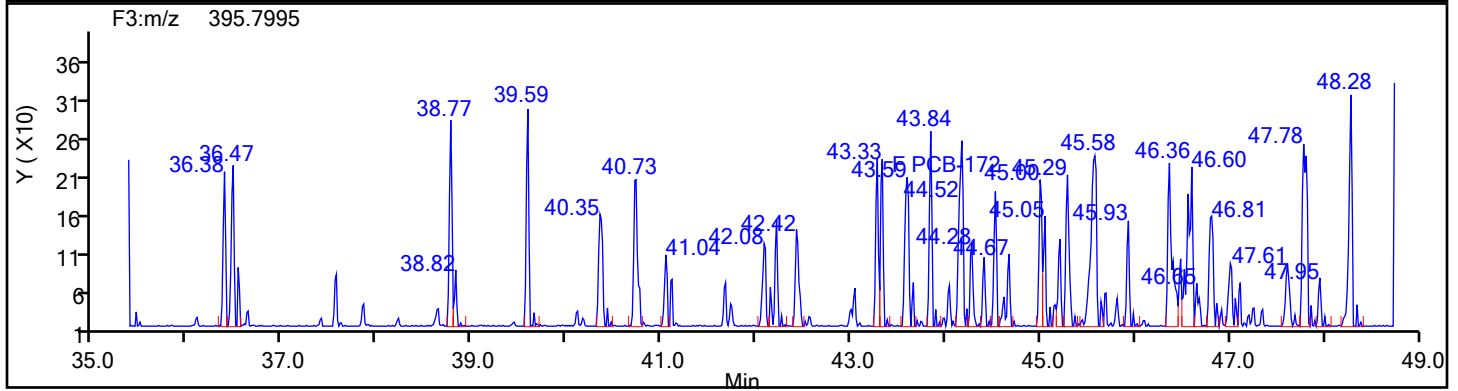
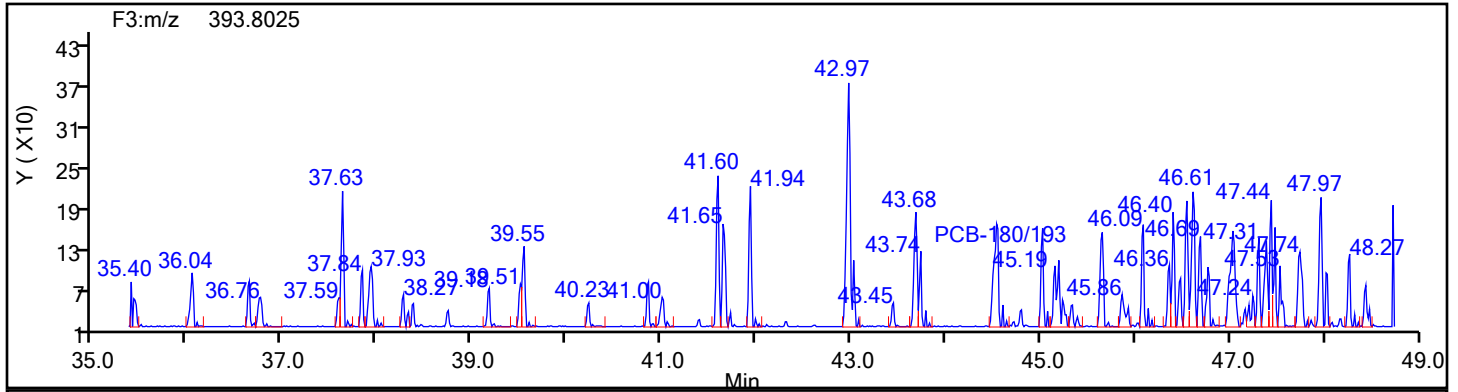


## HxPCB F3 Lock Mass

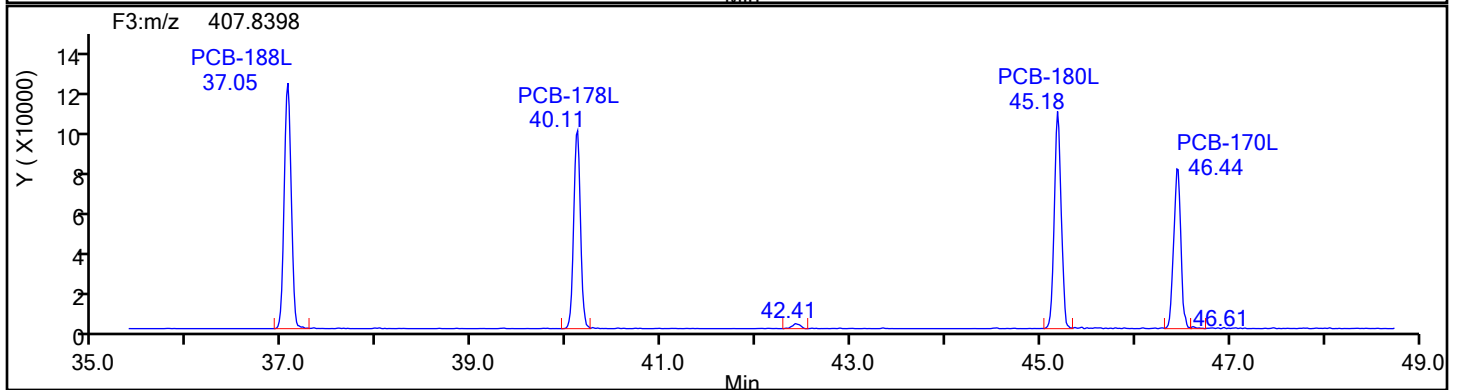
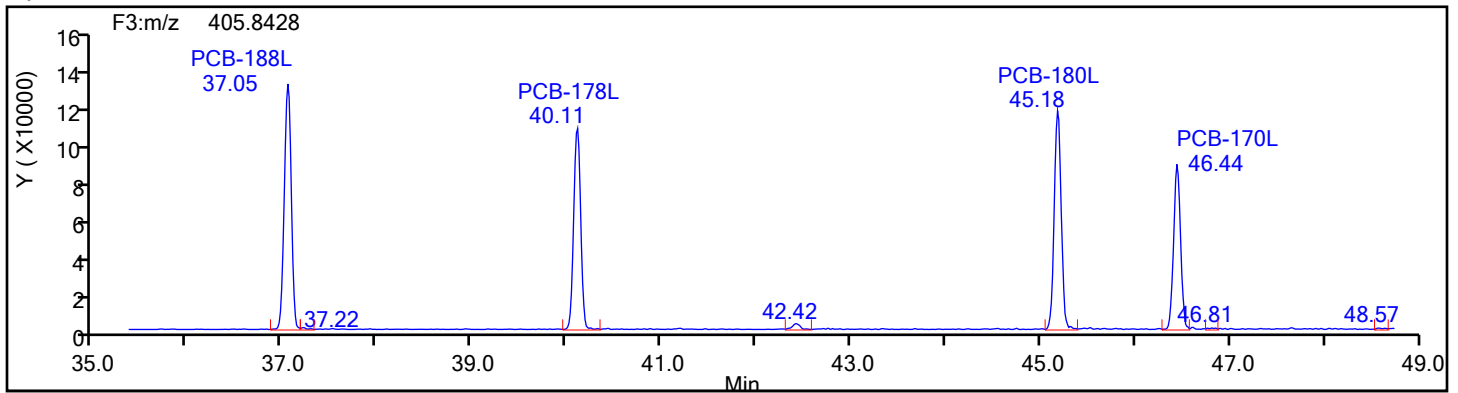


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

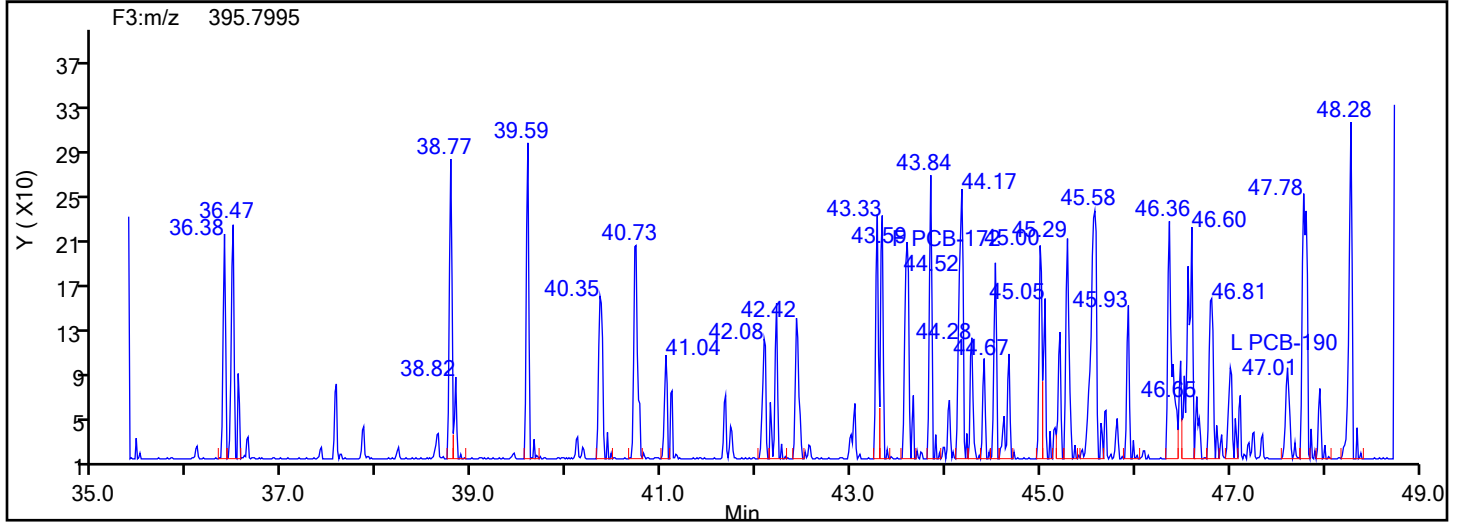
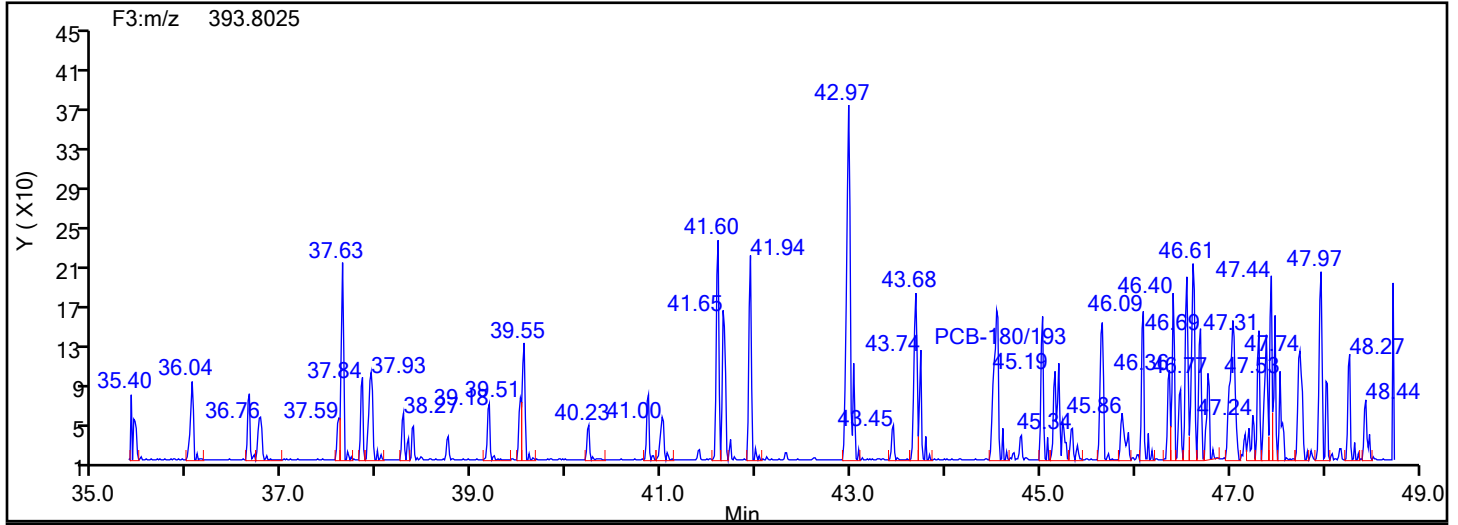


## HpPCB F3 Standards

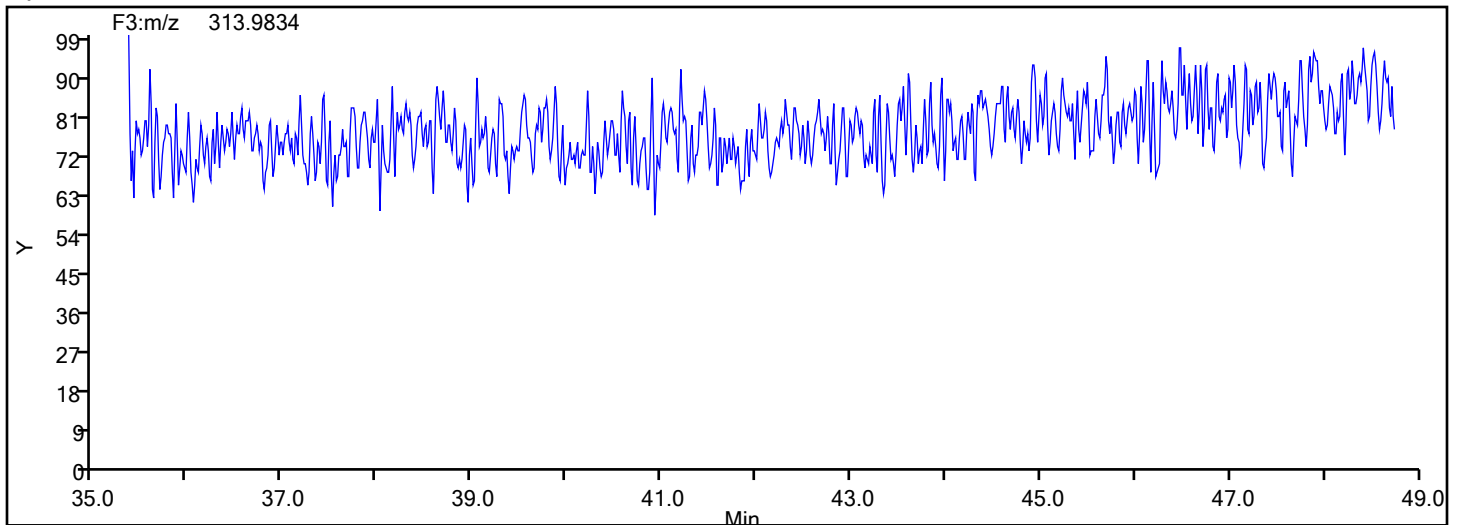


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

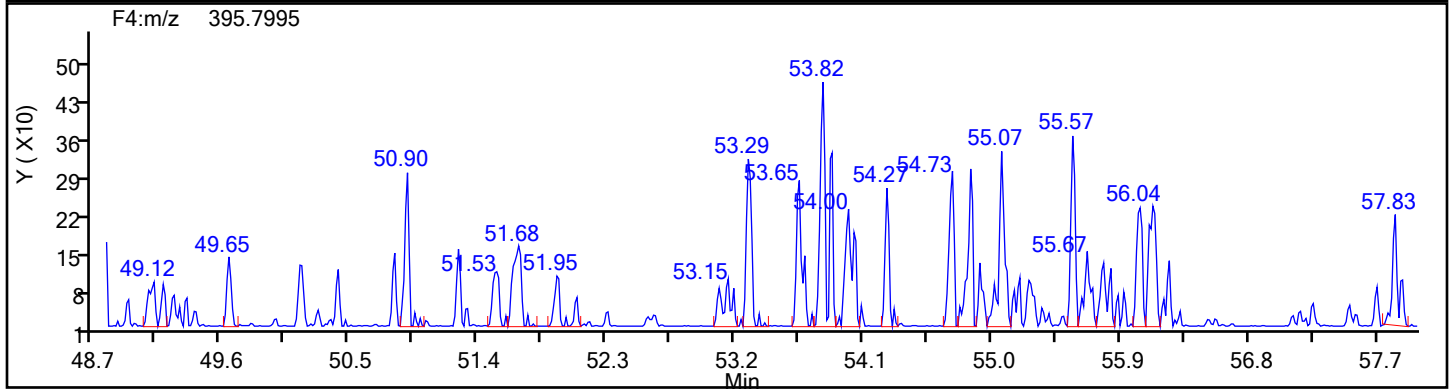
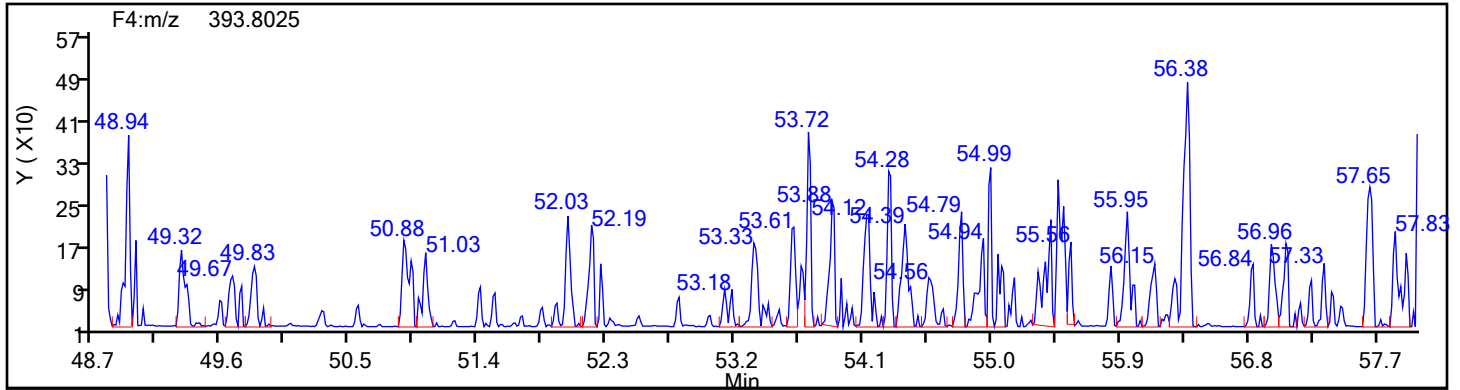


## HpPCB F3 Lock Mass

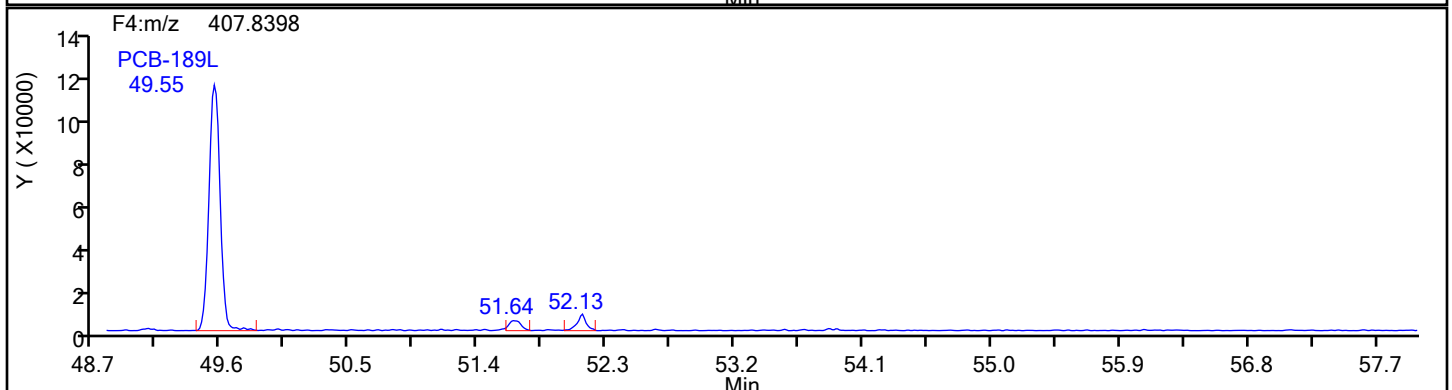
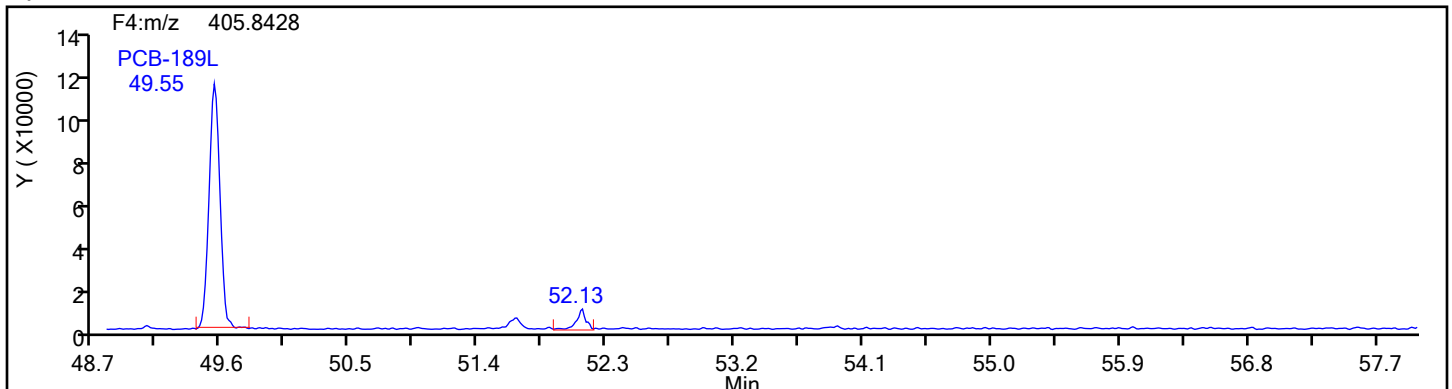


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

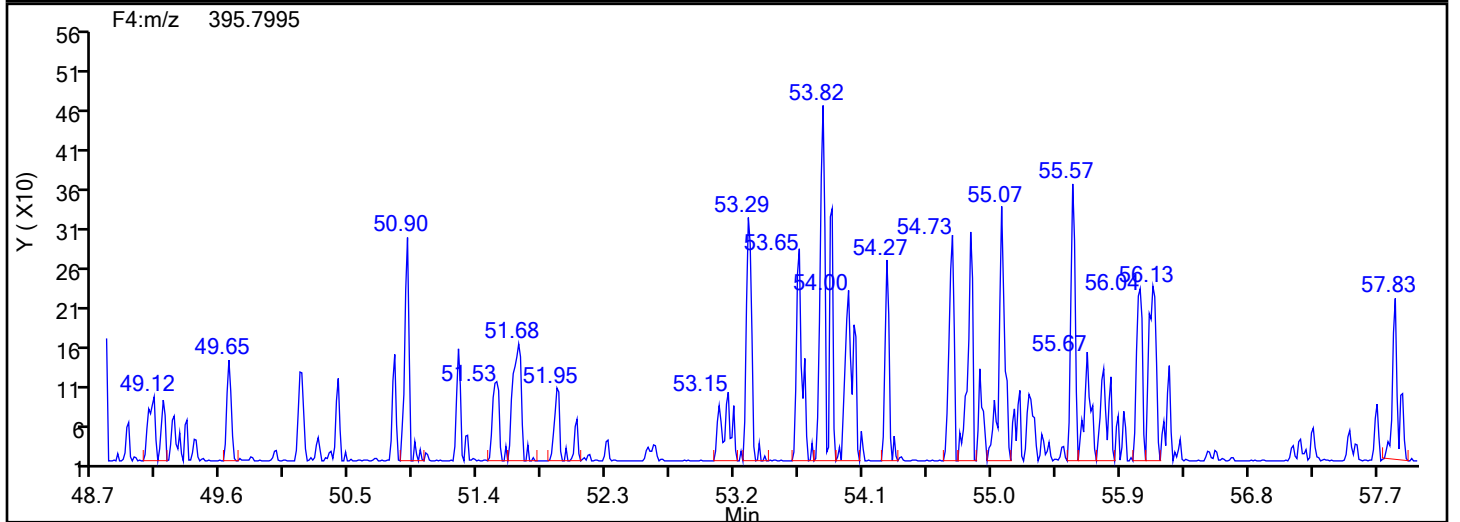
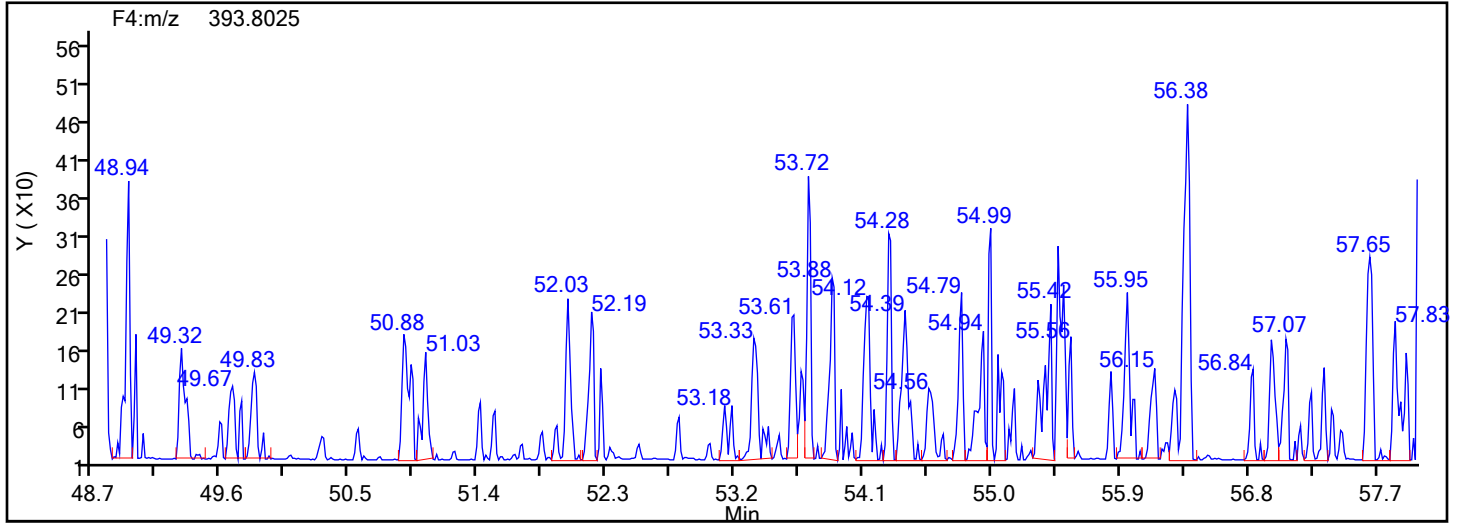


## HpPCB F4 Standards

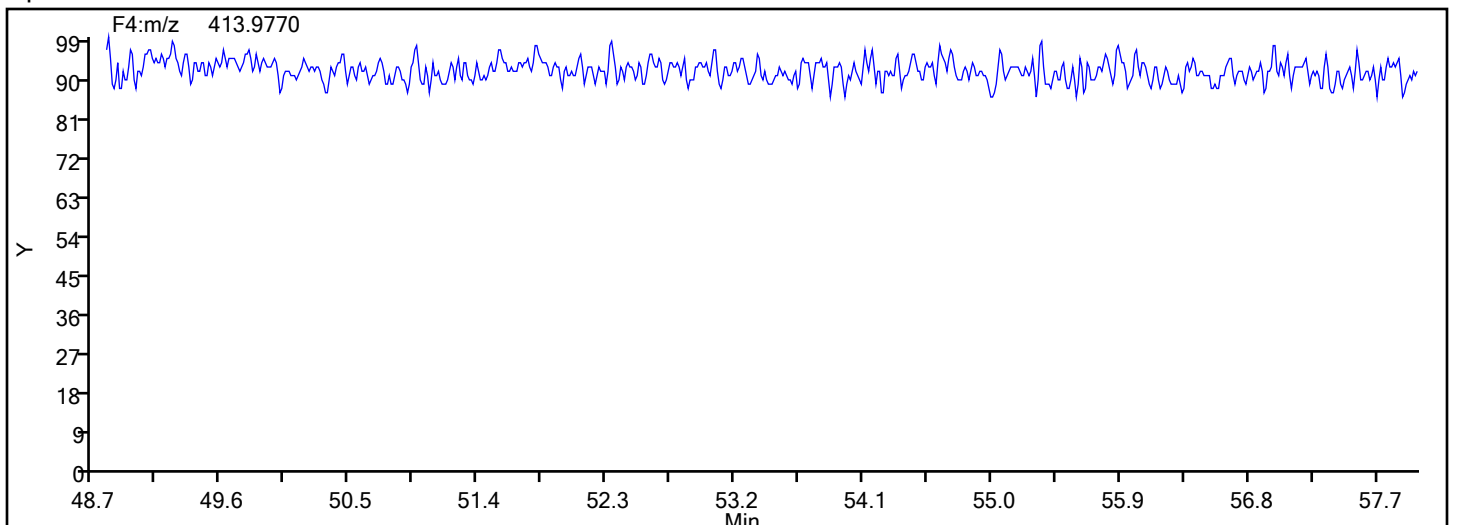


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4



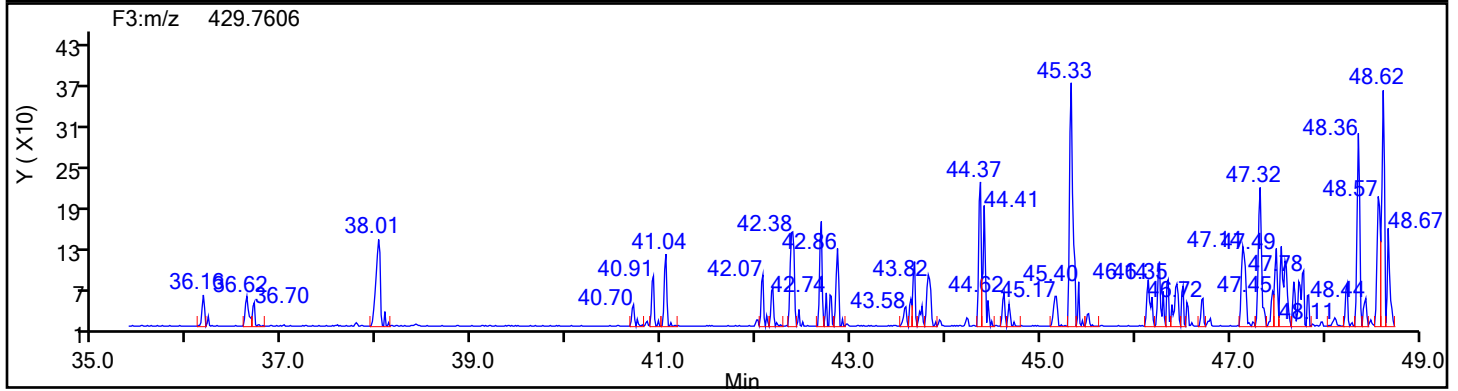
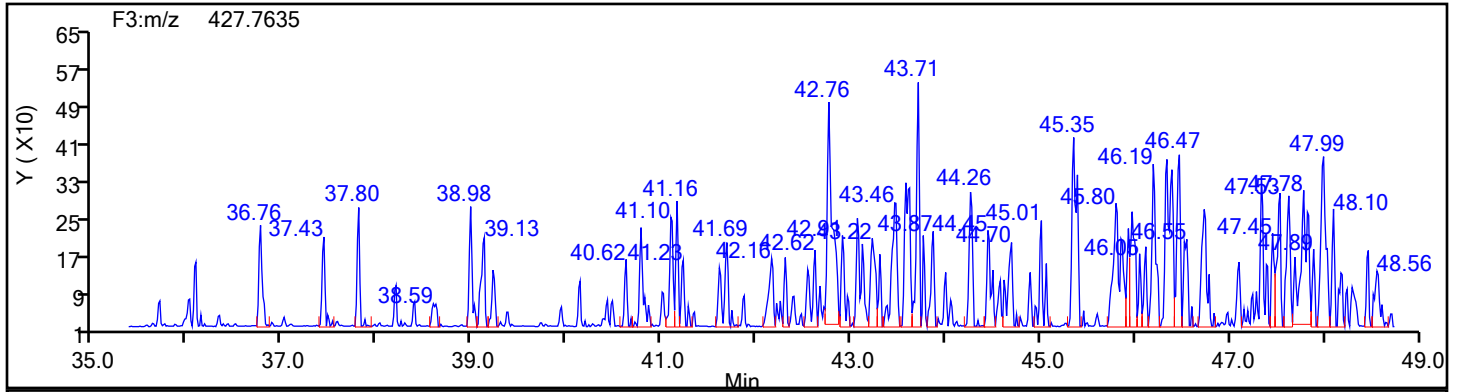
## HpPCB F4 Lock Mass



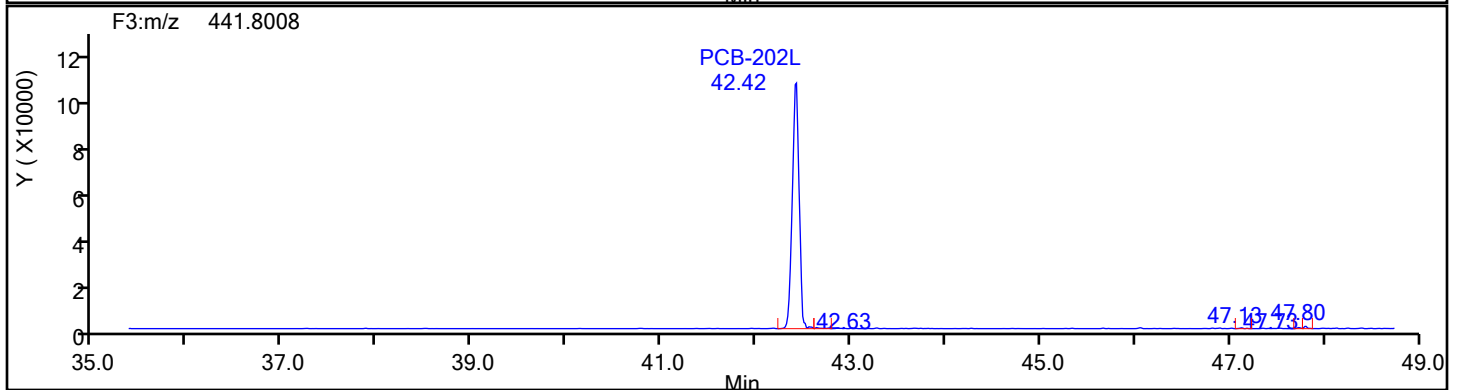
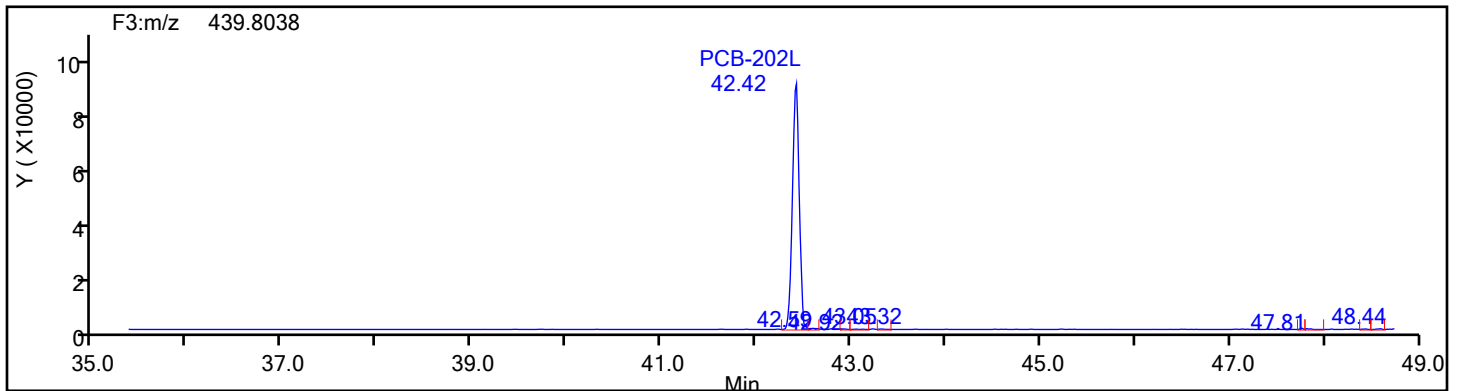


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

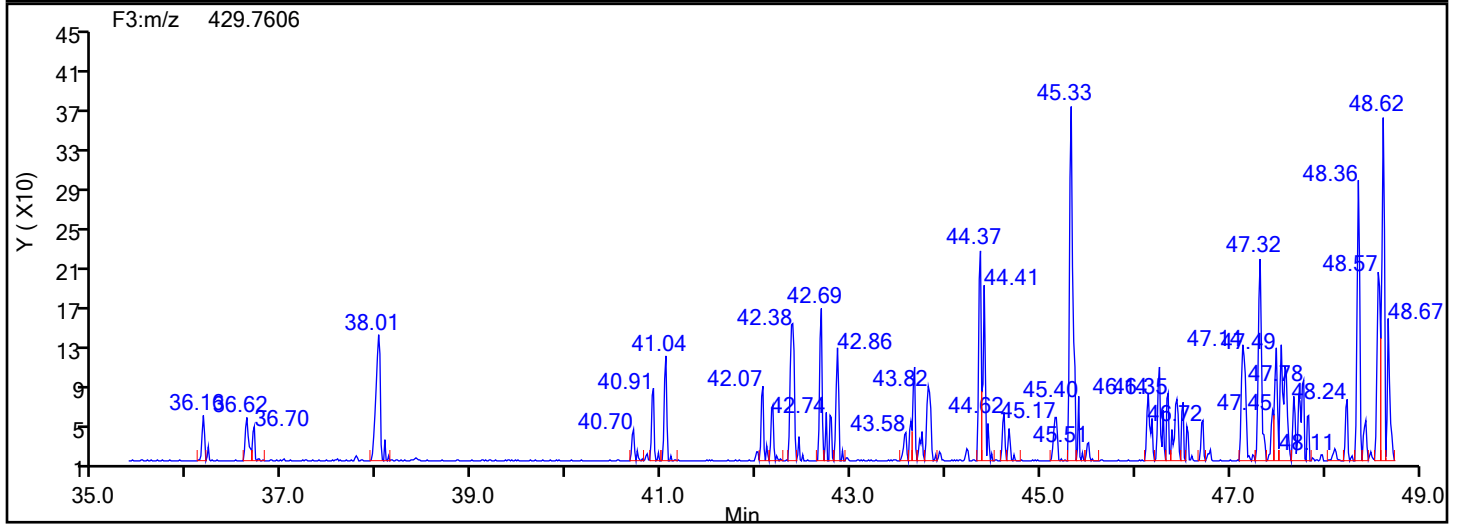
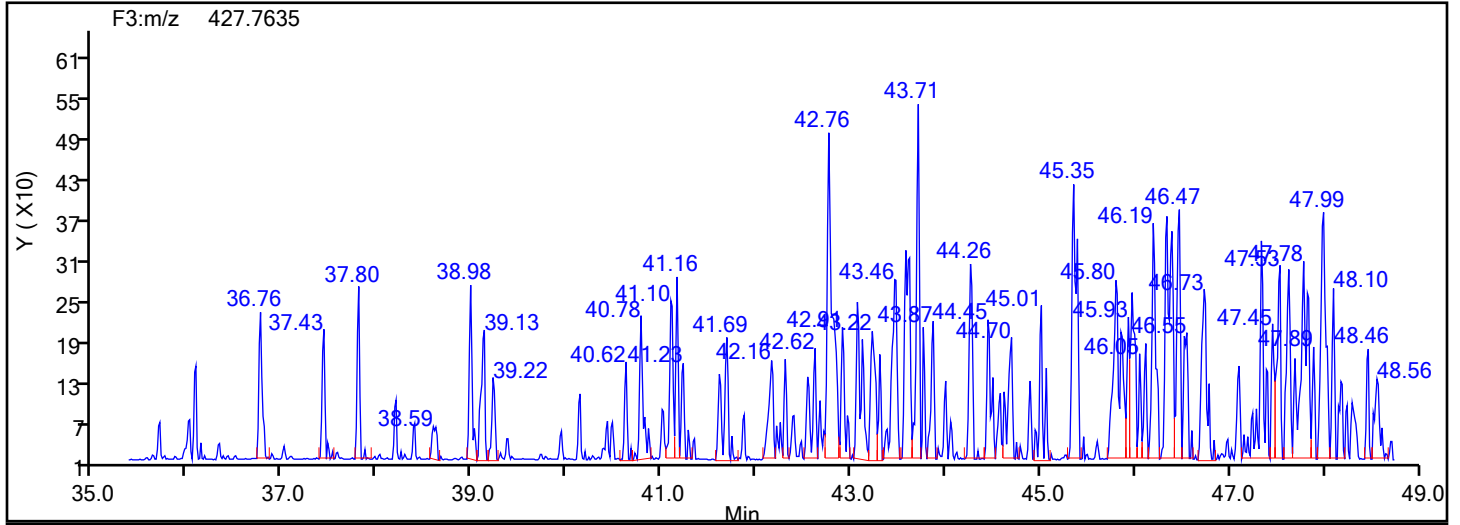


## OcPCB F3 Standards

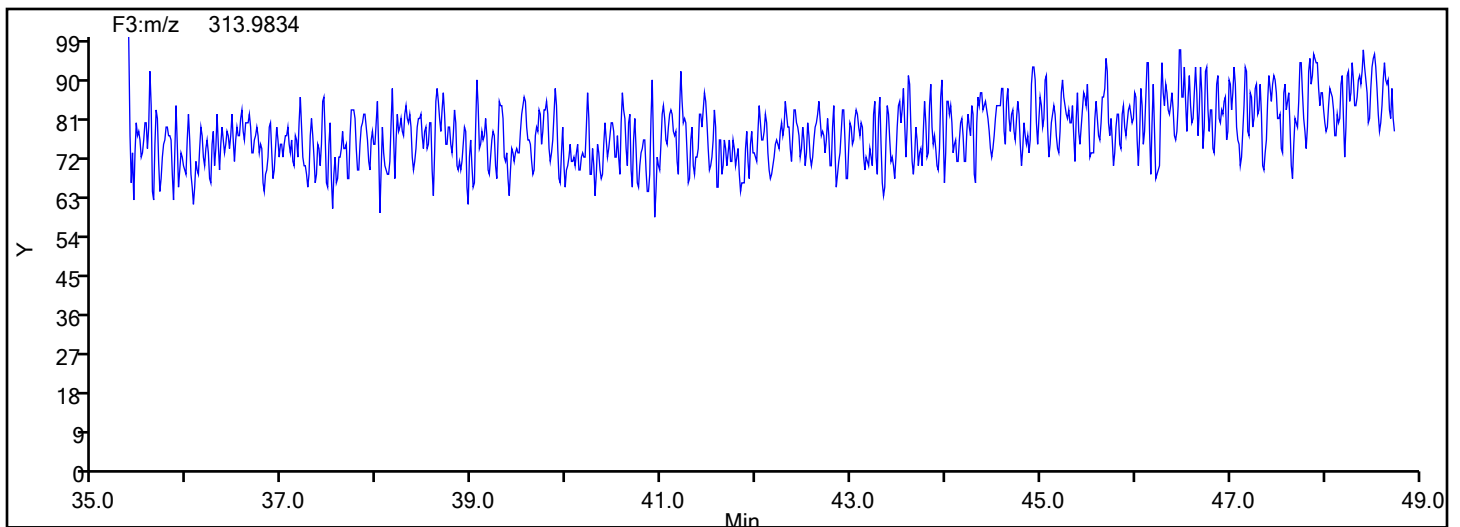


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

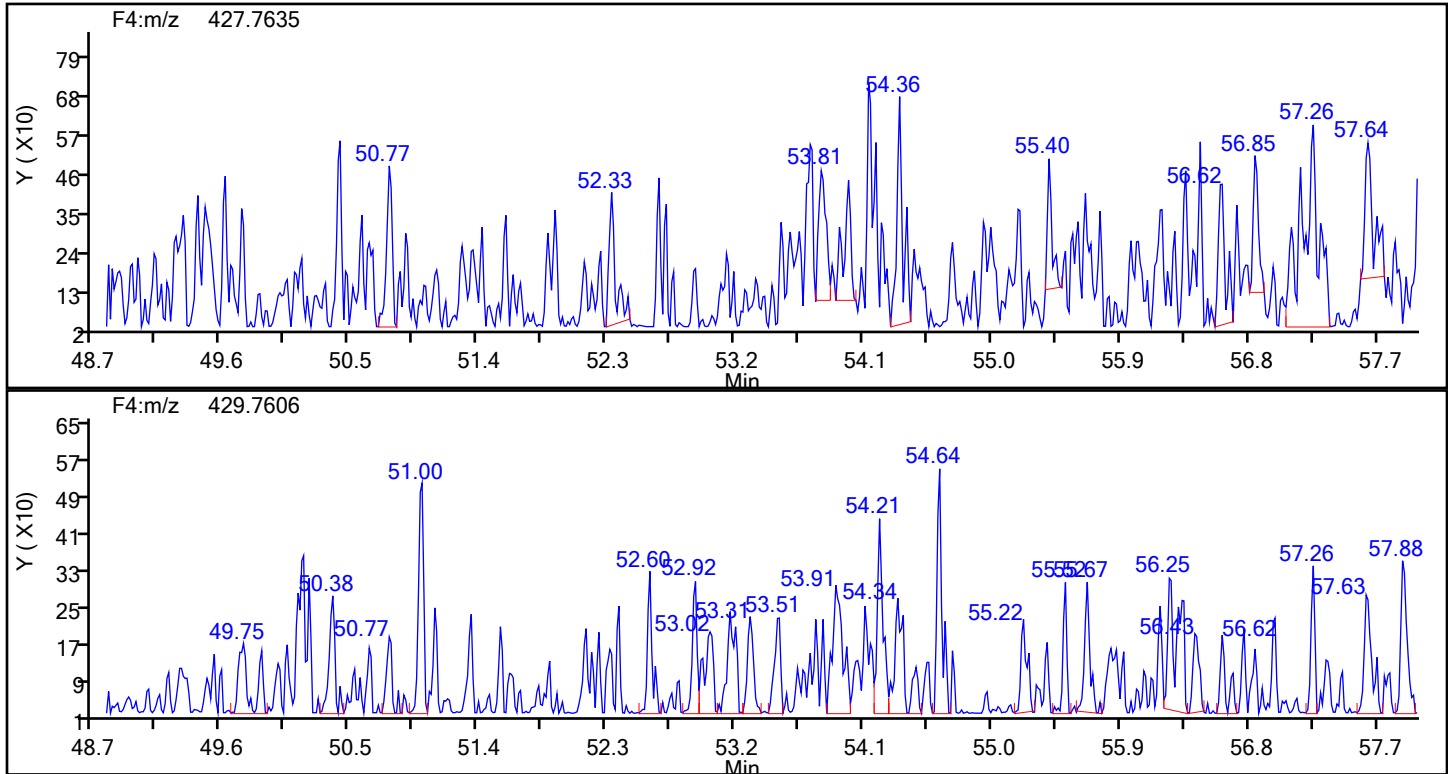


## OcPCB F3 Lock Mass

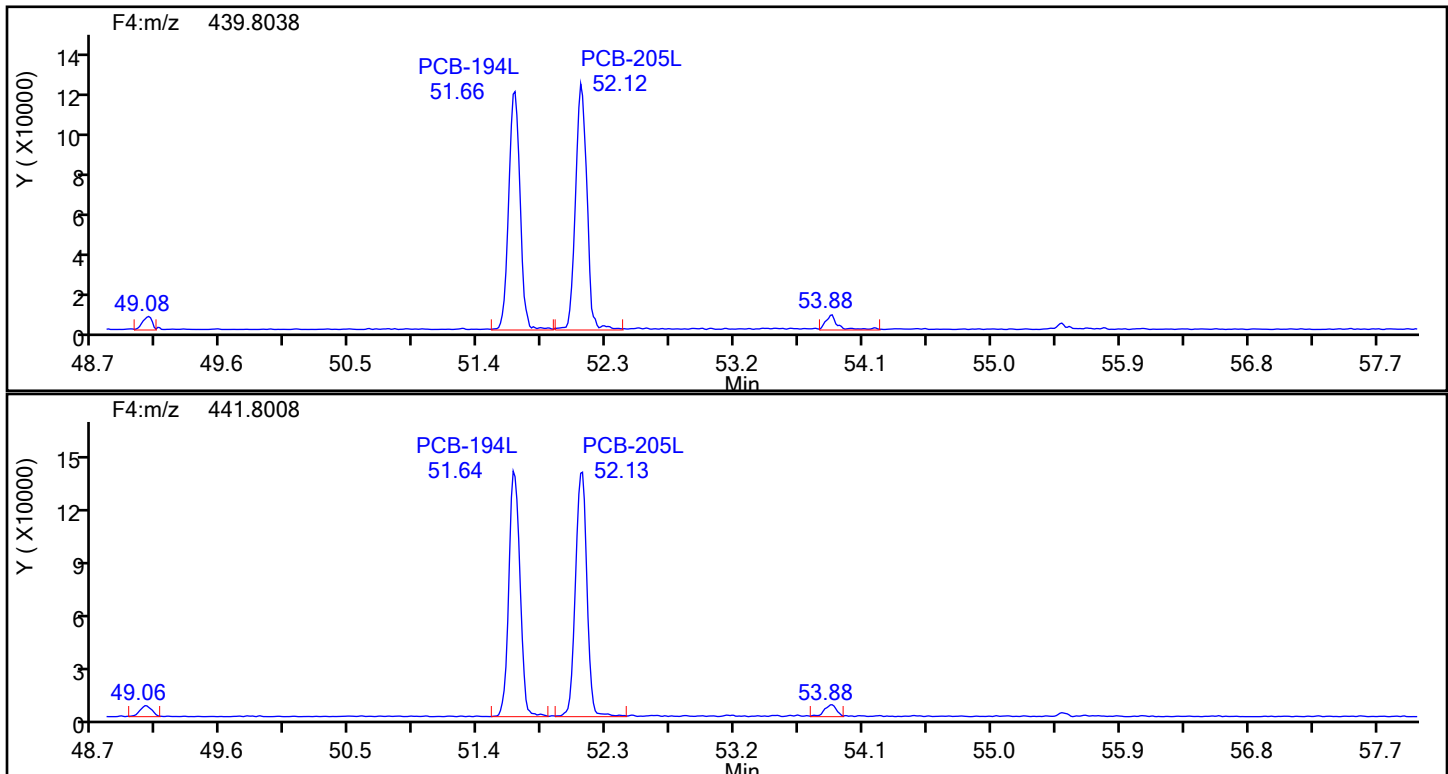


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

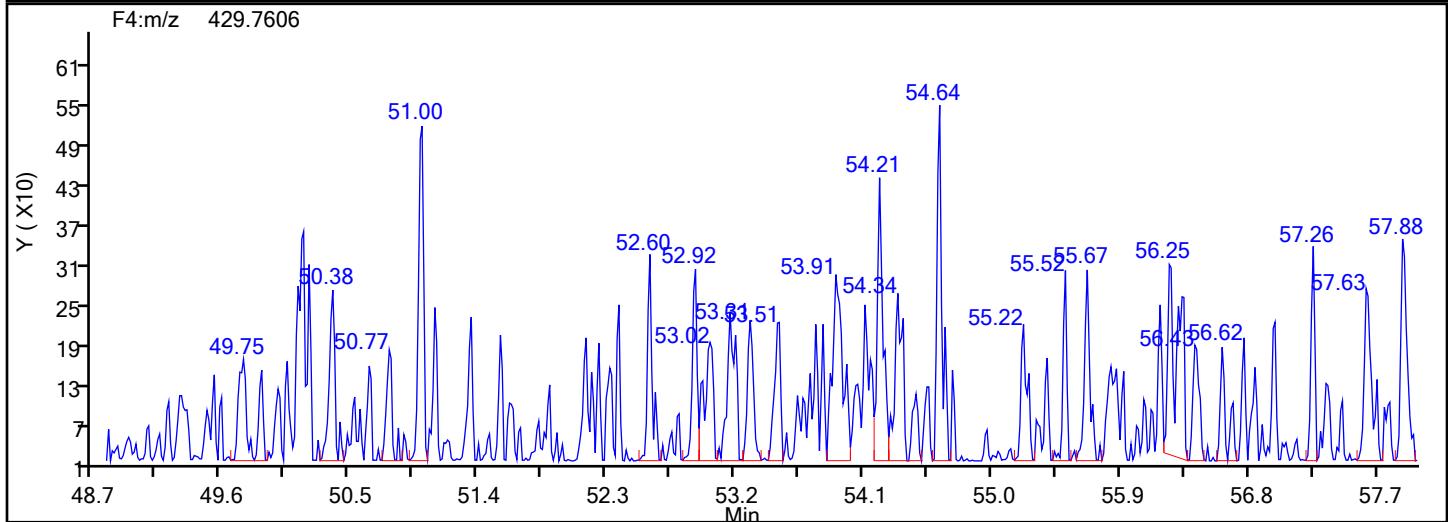
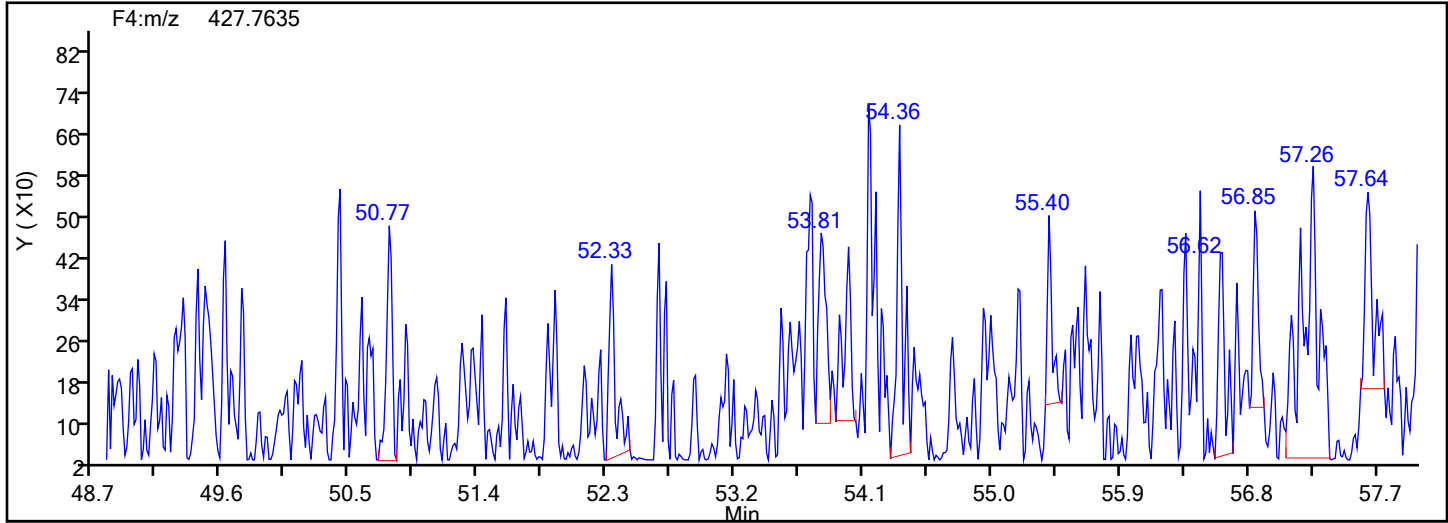


## OcPCB F4 Standards

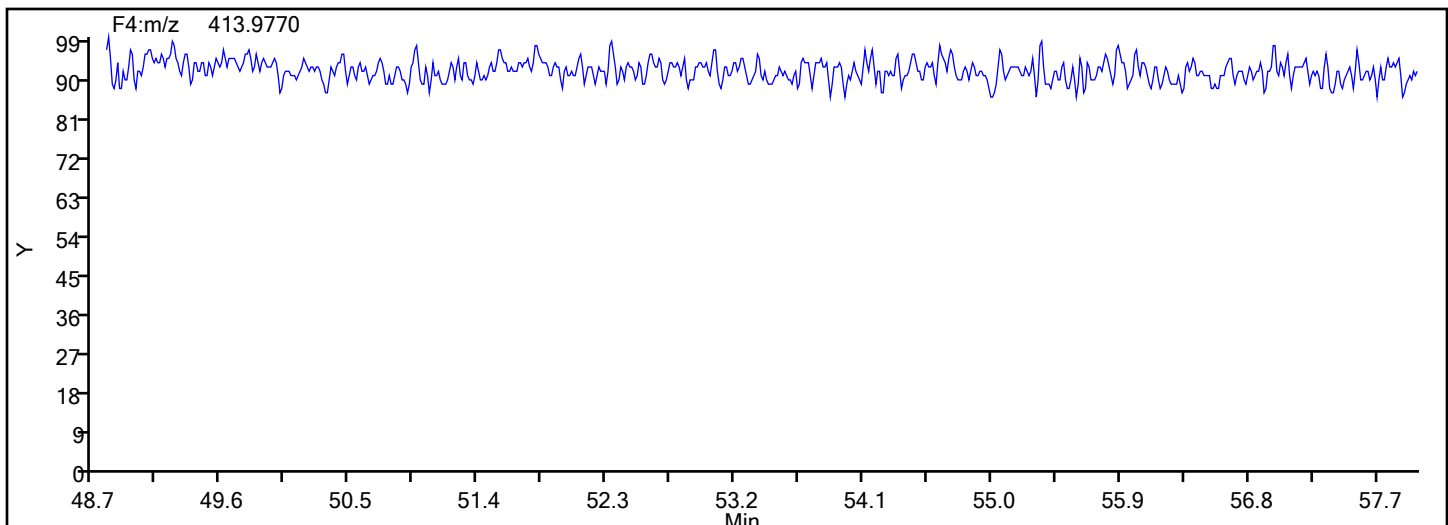


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

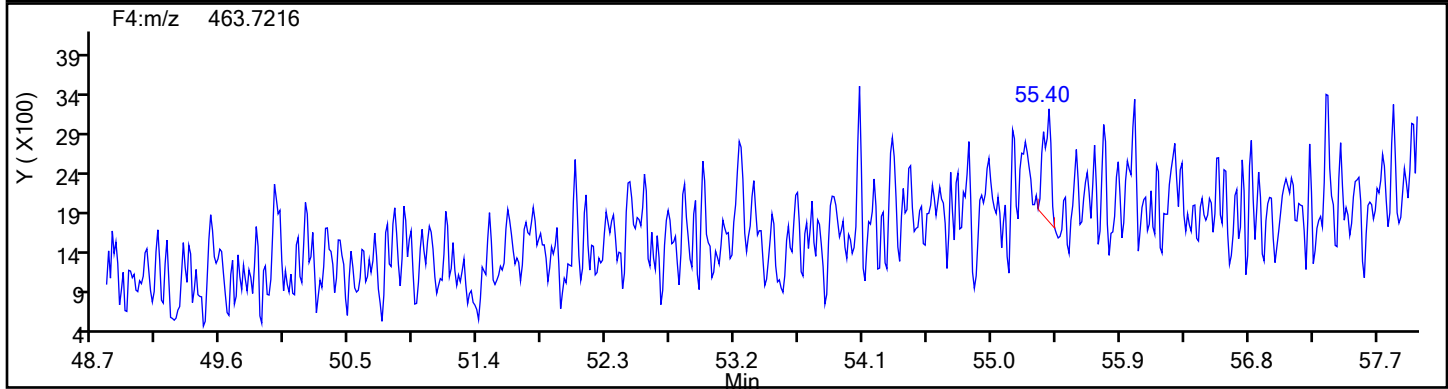
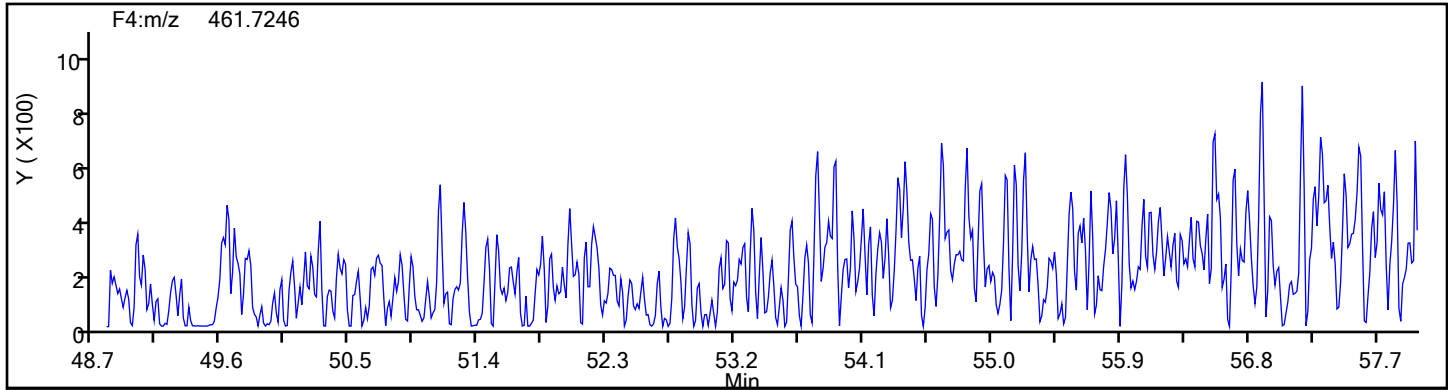


## OcPCB F4 Lock Mass

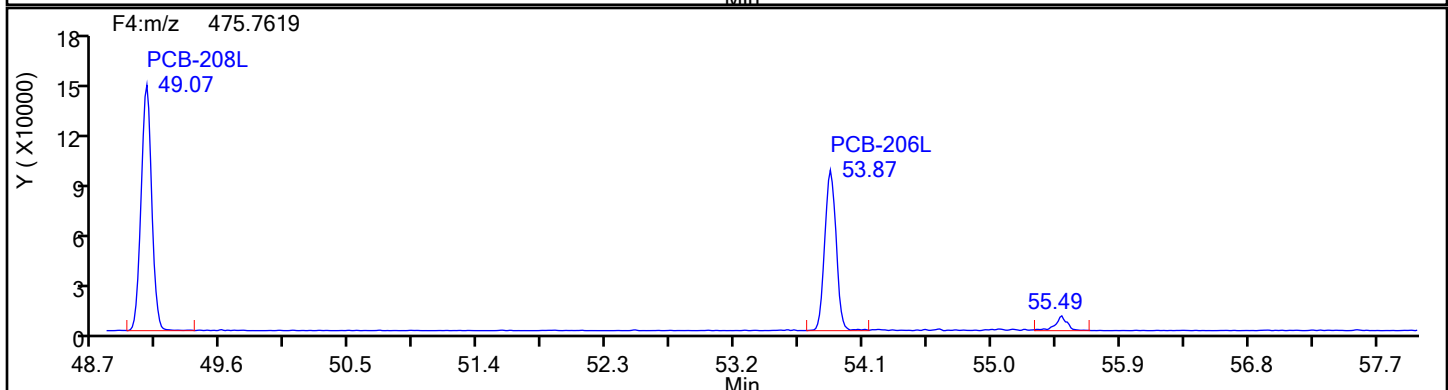
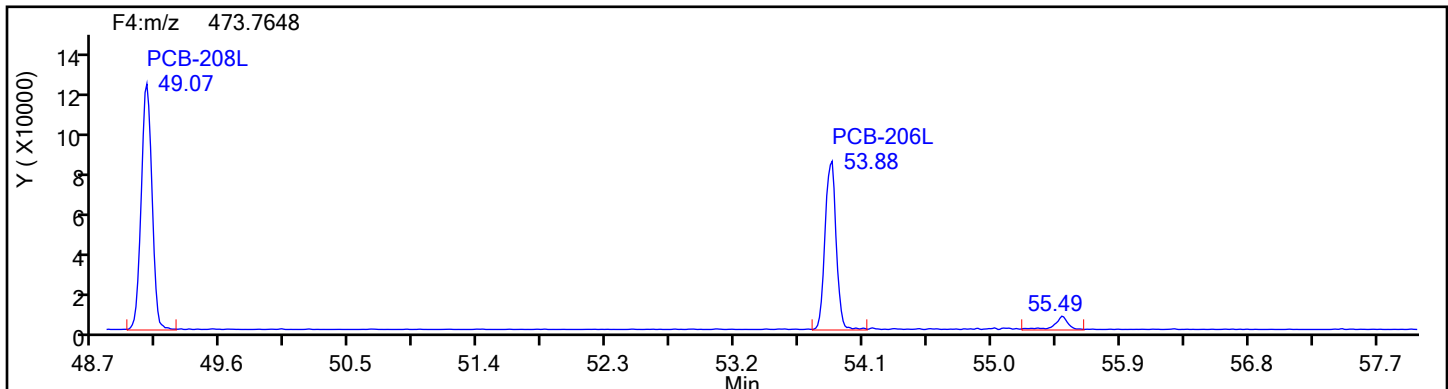


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1\IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

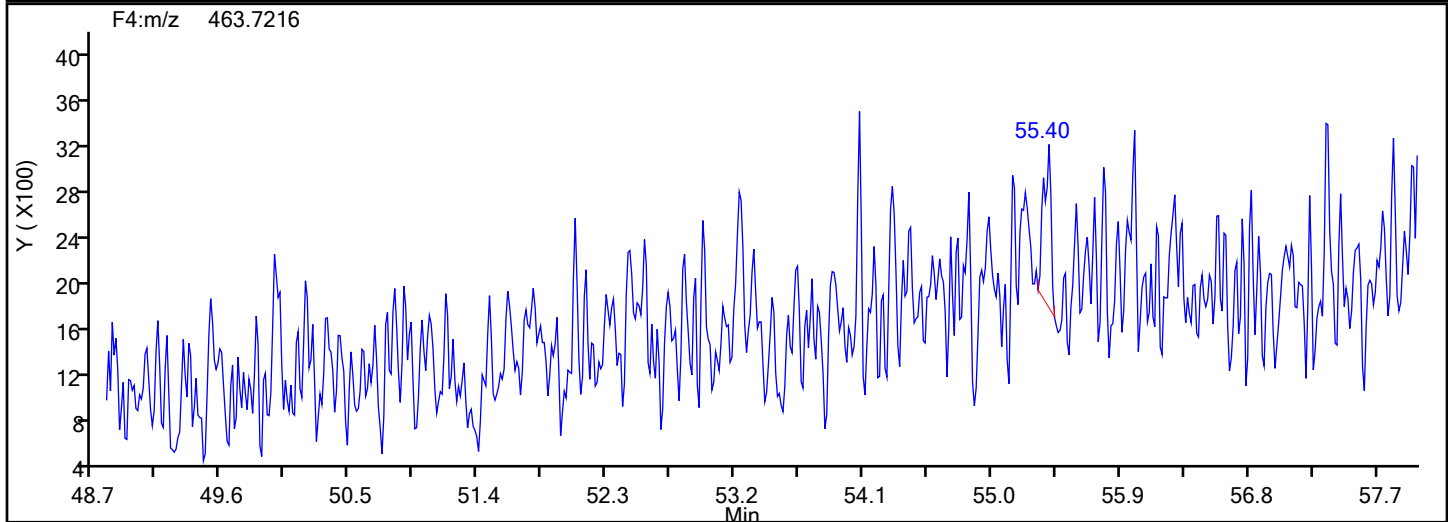
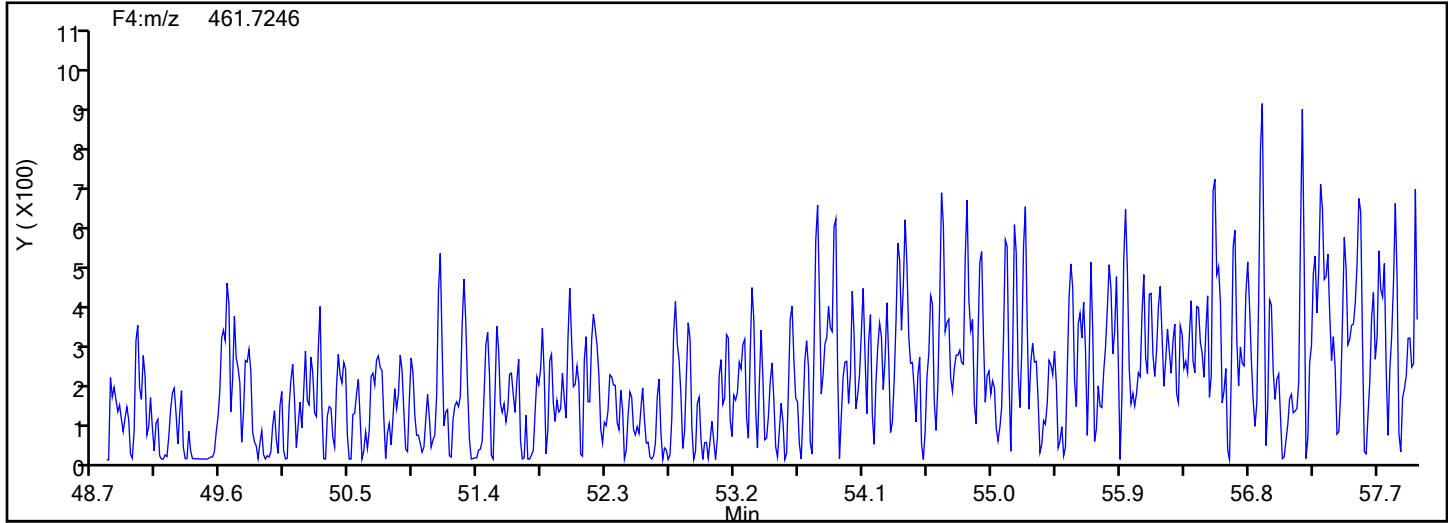


## NoPCB F4 Standards

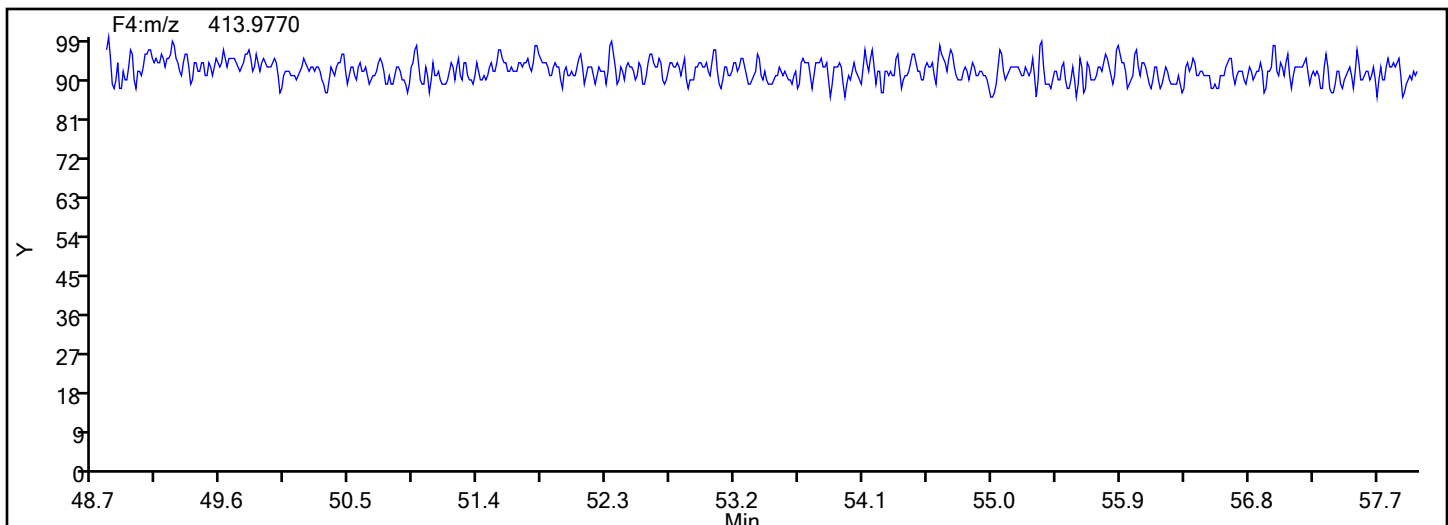


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

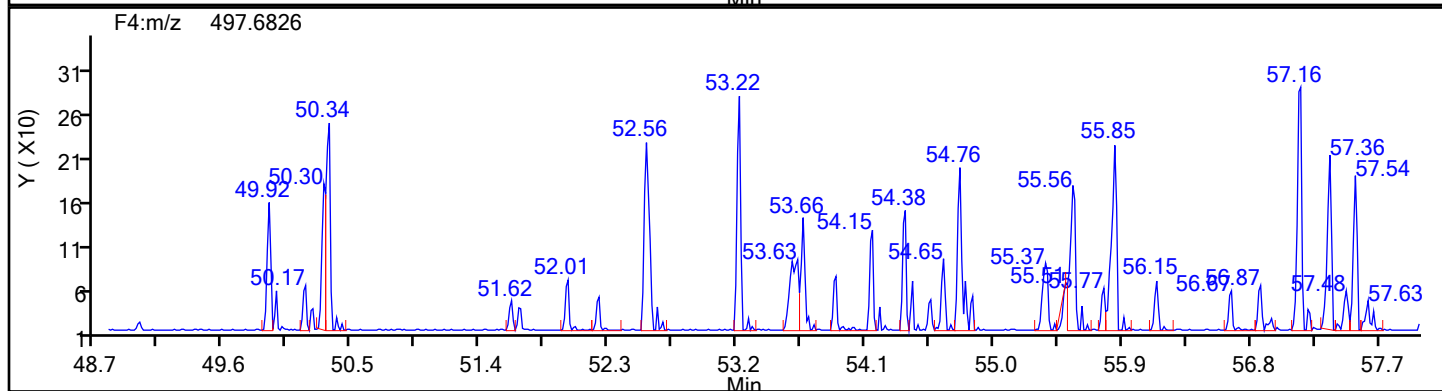
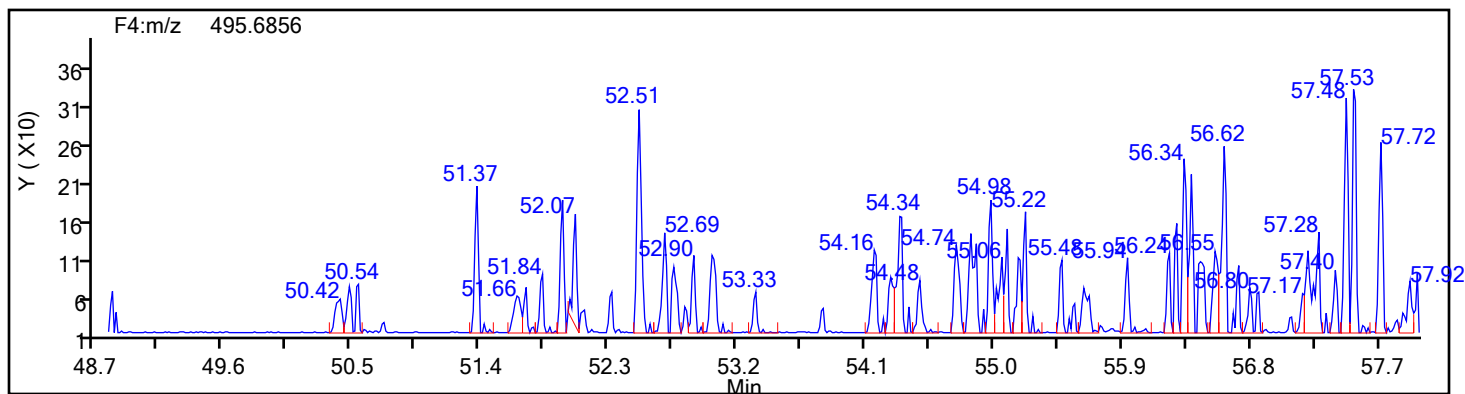


## NoPCB F4 Lock Mass

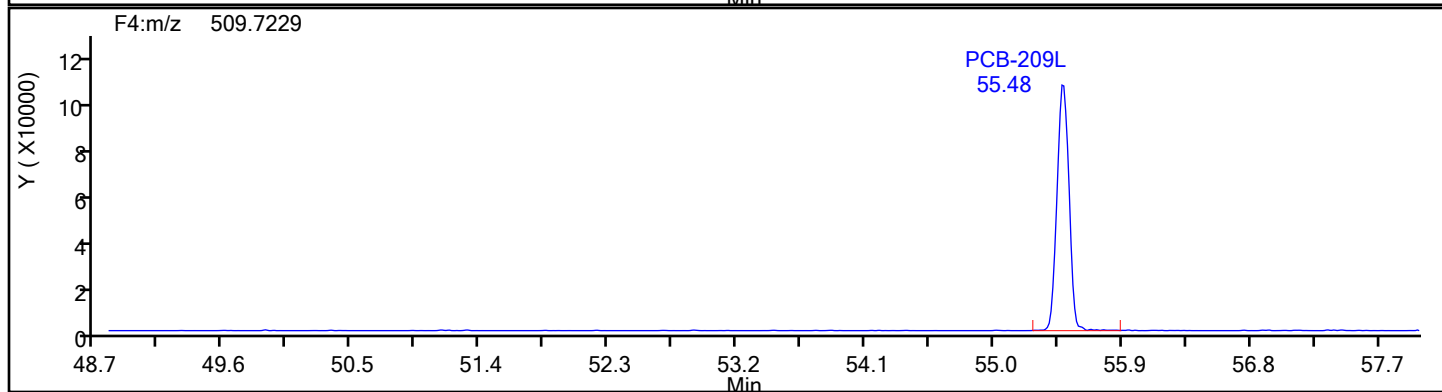
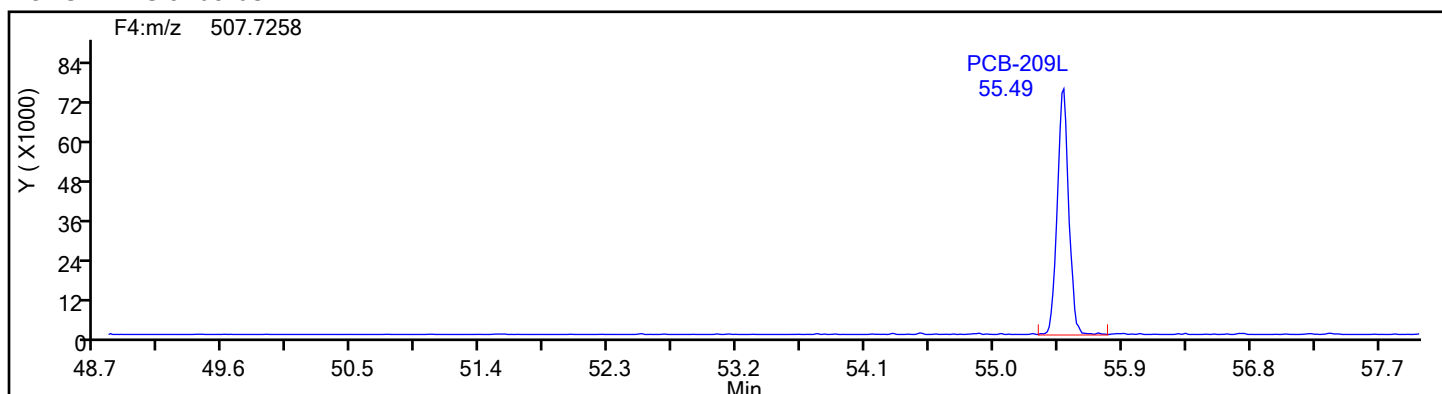


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 16:52:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Worklist#: 88219 Sample Line#: 10  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-6-c5x.d

Injection Date: 28-Jun-2024 16:52:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED

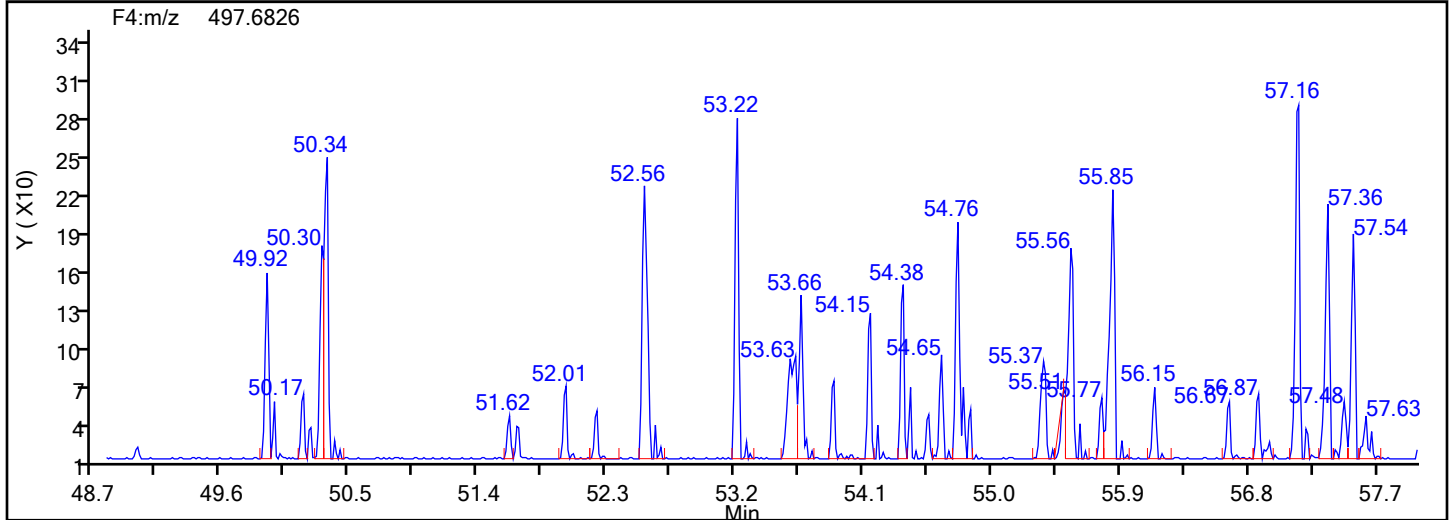
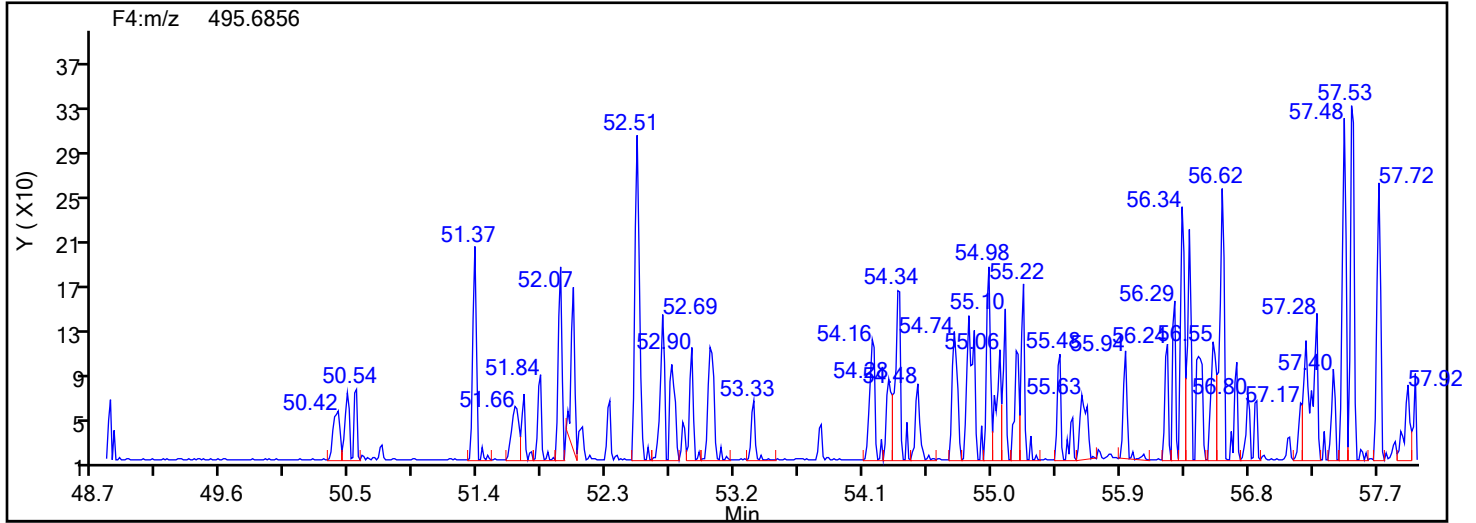
Worklist#: 88219

Sample Line#: 10

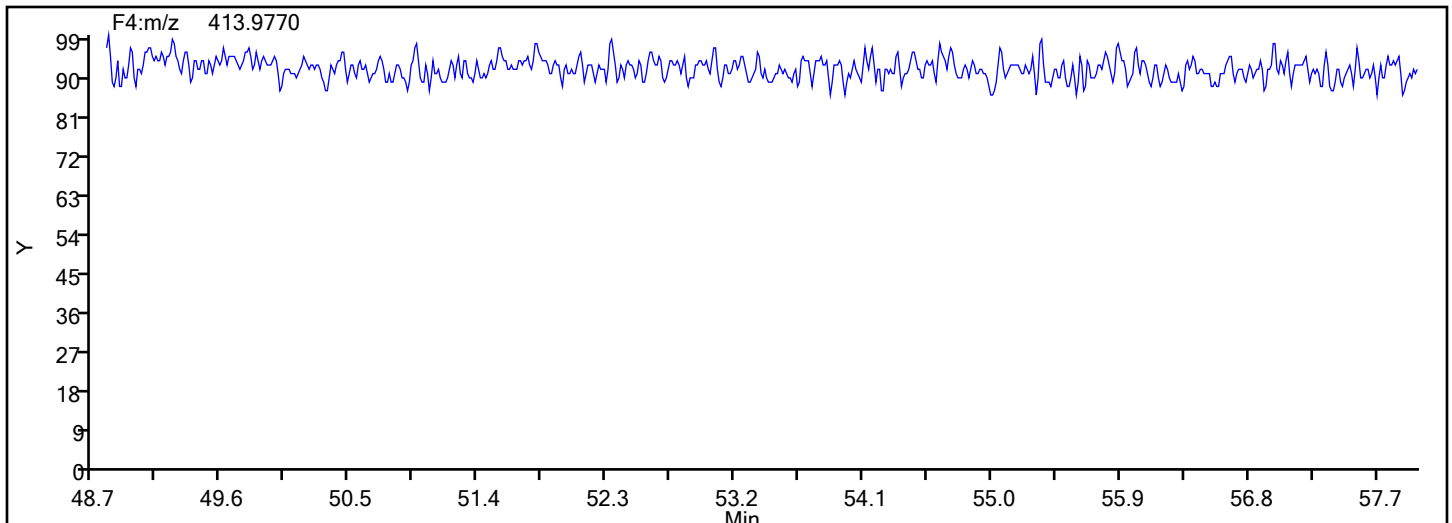
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass





Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-6-c5x.d  
Lims ID: 140-36940-A-6-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 6-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 16:52:00 ALS Bottle#: 0 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-010  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 11:34:40 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: P0IK

Date: 29-Jun-2024 11:34:40

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	6.89	103.41
PCB-28L	100.0	16.5	82.26
PCB-79L	33.3	6.87	103.02
PCB-95L	33.3	7.05	105.81
PCB-111L	100.0	17.4	86.94
PCB-153L	33.3	6.44	96.60
PCB-178L	100.0	17.6	88.05

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>7-COMBINED</u>	Lab Sample ID: <u>140-36940-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-7-c5x.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/20/2024 15:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 17:53</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.568	J B	3.00	0.660	0.0710
37680-65-2	PCB-18	0.0652	J S q C B	3.00	1.43	0.00486
7012-37-5	PCB-28	0.111	J q C20 B	3.00	1.26	0.0228
41464-39-5	PCB-44	0.984	J C	4.50	1.95	0.0584
35693-99-3	PCB-52	ND		1.50	0.660	0.0618
32598-10-0	PCB-66	ND		1.50	0.600	0.0451
32598-13-3	PCB-77	ND		1.50	0.630	0.0536
70362-50-4	PCB-81	ND		1.50	0.480	0.0514
37680-73-2	PCB-101	0.0502	J q C90	4.50	1.95	0.0163
32598-14-4	PCB-105	ND		1.50	0.510	0.0445
74472-37-0	PCB-114	ND		1.50	0.825	0.0471
31508-00-6	PCB-118	ND		1.50	0.915	0.0414
65510-44-3	PCB-123	ND		1.50	0.855	0.0481
57465-28-8	PCB-126	ND		1.50	0.615	0.0496
38380-07-3	PCB-128	ND	C	3.00	1.02	0.00584
35065-28-2	PCB-138	0.0621	J q C129 B	6.00	2.55	0.00607
35065-27-1	PCB-153	0.0597	J C	3.00	1.25	0.00525
38380-08-4	PCB-156	ND	C	3.00	1.28	0.00653
69782-90-7	PCB-157	ND	C156	3.00	1.28	0.00653
52663-72-6	PCB-167	0.00562	J q B	1.50	0.900	0.00408
32774-16-6	PCB-169	ND		1.50	0.615	0.00427
35065-30-6	PCB-170	ND		1.50	0.660	0.00106
35065-29-3	PCB-180	0.0239	J q C B	3.00	1.02	0.000873
52663-68-0	PCB-187	ND		1.50	0.630	0.000926
39635-31-9	PCB-189	ND		1.50	0.735	0.0183
52663-78-2	PCB-195	ND		1.50	0.795	0.00869

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-7  
7-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-7-c5x.d  
Analysis Method: 23 Date Collected: 05/20/2024 15:30  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 17:53  
Con. Extract Vol.: 30 (mL) Dilution Factor: 5  
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88219 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
40186-72-9	PCB-206	ND		1.50	0.855	0.105
2051-24-3	PCB-209	ND		1.50	0.690	0.00817

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN 4-1/IN-701-RUN</u> <u>7-COMBINED</u>	Lab Sample ID: <u>140-36940-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-7-c5x.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/20/2024 15:30</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 17:53</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	54		20-145
208263-77-8	PCB-3L	58		20-145
234432-86-1	PCB-4L	65		20-145
208263-67-6	PCB-15L	76		20-145
234432-87-2	PCB-19L	71		20-145
208263-79-0	PCB-37L	80		20-145
234432-88-3	PCB-54L	83		20-145
105600-23-5	PCB-77L	82		20-145
208461-24-9	PCB-81L	84		20-145
234432-89-4	PCB-104L	86		20-145
208263-62-1	PCB-105L	87		20-145
208263-63-2	PCB-114L	85		20-145
104130-40-7	PCB-118L	87		20-145
208263-64-3	PCB-123L	86		20-145
208263-65-4	PCB-126L	88		20-145
234432-90-7	PCB-155L	84		20-145
208263-68-7	PCB-156L	89	C	20-145
235416-30-5	PCB-157L	89	C156	20-145
208263-69-8	PCB-167L	87		20-145
208263-70-1	PCB-169L	87		20-145
160901-80-4	PCB-170L	93		20-145
234432-91-8	PCB-188L	87		20-145
208263-73-4	PCB-189L	59		20-145
105600-26-8	PCB-202L	89		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	107		20-145
234432-92-9	PCB-208L	109		20-145
105600-27-9	PCB-209L	116		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN 4-1/IN-701-RUN Lab Sample ID: 140-36940-7  
7-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-7-c5x.d  
Analysis Method: 23 Date Collected: 05/20/2024 15:30  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 17:53  
Con. Extract Vol.: 30 (mL) Dilution Factor: 5  
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88219 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	76		20-130
235416-29-2	PCB-111L	86		20-130
232919-67-4	PCB-178L	82		20-130
STL01600	PCB-8L	99		70-130
STL01603	PCB-79L	100		70-130
STL01604	PCB-95L	104		70-130
STL01606	PCB-153L	90		70-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-7-c5x.d  
Lims ID: 140-36940-A-7-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 17:53:00 ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-011  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 11:47:49 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: P0IK

Date: 29-Jun-2024 11:47:49

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					234.6	234.6	0.0976	0.0976		
D PCB-1L	11:39	1490792	2.96	1.6108	10.8	10.8	0.1465	0.1465	53.93	
D PCB-3L	13:47	1584793	3.08	1.5891	11.6	11.6	0.1485	0.1485	58.11	
PCB-1	11:40	3066053	2.88	1.2191	33.7	33.7	0.0924	0.0924		
PCB-2	13:37	10287400	2.87	1.1805	113.3	113.3	0.0997	0.0997		
PCB-3	13:48	8468955	2.88	1.2206	87.6	87.6	0.1009	0.1009		
S Total Dichlorobiphenyls					15.4	15.1	0.0550	0.0550		RQ
D PCB-4L	14:02	717130	1.63	0.6475	12.9	12.9	0.1186	0.1186	64.53	
* PCB-9L	16:00	1716235	1.67		20.0	20.0				
\$ PCB-8L	16:50	422405	1.68	1.2066	6.571	6.571	0.1119	0.1119	98.57	M
D PCB-15L	19:55	1413841	1.71	1.0789	15.3	15.3	0.0712	0.0712	76.35	M
PCB-4	14:04	11324	1.56	1.2818	0.3417	0.2464	0.0719	0.0719		RQ
PCB-10	14:15						0.0572	0.0572		
PCB-9	16:00	12435	1.56	1.4224	0.1854	0.1641	0.0529	0.0529		RQ
PCB-7	16:10	605936	1.49	1.4134	8.047	8.047	0.0532	0.0532		
PCB-6	16:25	26246	1.56	1.5421	0.4130	0.3195	0.0488	0.0488		RQ
PCB-5	16:44	23998	1.53	1.3395	0.3363	0.3363	0.0561	0.0561		
PCB-8	16:51	32044	1.57	1.5889	0.3786	0.3786	0.0473	0.0473		
PCB-14	18:29	36103	1.66	1.4025	0.4832	0.4832	0.0536	0.0536		
PCB-11	19:20	224072	1.64	1.2951	3.248	3.248	0.0581	0.0581		
PCB-12	19:39	123462	1.63	1.3358	1.735	1.735	0.0563	0.0563		
PCB-13 (C12)	19:39	123462	1.63	1.3358	1.735	1.735	0.0563	0.0563		
PCB-15	19:58	17521	1.58	1.2903	0.1921	0.1921	0.0492	0.0492		M
S Total Trichlorobiphenyls					0.3276	0.2824	0.0115	0.0115		RQ
D PCB-19L	17:08	509548	1.00	0.6285	14.2	14.2	0.5066	0.5066	71.06	
* PCB-32L	20:23	1140880	1.07		20.0	20.0				
* PCB-31L	22:38	1810384	1.01		20.0	20.0				
\$ PCB-28L	22:55	1452523	1.03	1.0494	15.3	15.3	0.1244	0.1244	76.46	
D PCB-37L	26:55	1263083	1.06	0.8749	15.9	15.9	0.1492	0.1492	79.74	
PCB-19	17:11						0.004466	0.004466		
PCB-18	19:01	1954	1.04	1.7652	0.0474	0.0434	0.003241	0.003241		RQa
PCB-30 (C18)	19:01	1954	1.04	1.7652	0.0474	0.0434	0.003241	0.003241		RQa
PCB-17	19:27	969	1.04	1.2430	0.0394	0.0306	0.004602	0.004602		RQM
PCB-27	19:39	1351	1.08	1.8327	0.0289	0.0289	0.003121	0.003121		M

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:48						0.003410	0.003410		
PCB-16	19:55						0.005069	0.005069		
PCB-32	20:25						0.003122	0.003122		
PCB-34	21:41						0.0158	0.0158		
PCB-23	21:49						0.0164	0.0164		
PCB-26	22:06	1854	1.04	1.1255	0.0315	0.0261	0.0158	0.0158		RQ
PCB-29 (C26)	22:06	1854	1.04	1.1255	0.0315	0.0261	0.0158	0.0158		RQ
PCB-25	22:22						0.0140	0.0140		
PCB-31	22:39	3635	1.04	1.1532	0.0593	0.0499	0.0154	0.0154		RQ
PCB-20	22:55	5471	1.04	1.1718	0.0818	0.0739	0.0152	0.0152		RQM
PCB-28 (C20)	22:55	5471	1.04	1.1718	0.0818	0.0739	0.0152	0.0152		RQM
PCB-21	23:09						0.0165	0.0165		
PCB-33 (C21)	23:09						0.0165	0.0165		
PCB-22	23:37						0.0149	0.0149		
PCB-36	25:10						0.0161	0.0161		
PCB-39	25:31						0.0154	0.0154		
PCB-38	26:06						0.0164	0.0164		
PCB-35	26:31	2101	1.04	1.1297	0.0393	0.0294	0.0157	0.0157		RQ
PCB-37	26:58						0.0155	0.0155		
S Total Tetrachlorobiphenyls					1.173	1.092	0.0344	0.0344		RQ
D PCB-54L	20:13	525550	0.81	0.5562	16.6	16.6	0.0305	0.0305	82.82	
* PCB-52L	24:45	1464091	0.81		20.0	20.0				
\$ PCB-79L	32:40	522441	0.79	1.0018	6.655	6.655	0.0900	0.0900	99.82	
D PCB-81L	33:40	1541907	0.82	1.2470	16.9	16.9	0.0628	0.0628	84.46	
D PCB-77L	34:13	1592587	0.86	1.3212	16.5	16.5	0.0593	0.0593	82.33	
PCB-54	20:16						0.005467	0.005467		
PCB-50	22:25						0.0441	0.0441		
PCB-53 (C50)	22:25						0.0441	0.0441		
PCB-45	23:07	20520	0.77	0.8264	0.3588	0.3169	0.0458	0.0458		RQ
PCB-51 (C45)	23:07	20520	0.77	0.8264	0.3588	0.3169	0.0458	0.0458		RQ
PCB-46	23:24						0.0533	0.0533		
PCB-52	24:48						0.0412	0.0412		
PCB-43	24:56						0.0366	0.0366		
PCB-73 (C43)	24:56						0.0366	0.0366		
PCB-49	25:14						0.0354	0.0354		
PCB-69 (C49)	25:14						0.0354	0.0354		
PCB-48	25:34						0.0451	0.0451		
PCB-44	25:48	50045	0.71	0.9731	0.6563	0.6563	0.0389	0.0389		M
PCB-47 (C44)	25:48	50045	0.71	0.9731	0.6563	0.6563	0.0389	0.0389		M
PCB-65 (C44)	25:48	50045	0.71	0.9731	0.6563	0.6563	0.0389	0.0389		M
PCB-59	26:07						0.0319	0.0319		
PCB-62 (C59)	26:07						0.0319	0.0319		
PCB-75 (C59)	26:07						0.0319	0.0319		
PCB-42	26:19						0.0468	0.0468		
PCB-40	26:49						0.0427	0.0427		
PCB-41 (C40)	26:49						0.0427	0.0427		
PCB-71 (C40)	26:49						0.0427	0.0427		
PCB-64	27:02						0.0322	0.0322		
PCB-72	27:51						0.0346	0.0346		
PCB-68	28:07	11625	0.77	1.2533	0.1579	0.1184	0.0302	0.0302		RQM
PCB-57	28:34						0.0350	0.0350		
PCB-58	28:49						0.0286	0.0286		
PCB-67	28:58						0.0266	0.0266		
PCB-63	29:14						0.0337	0.0337		
PCB-61	29:35						0.0300	0.0300		
PCB-70 (C61)	29:35						0.0300	0.0300		
PCB-74 (C61)	29:35						0.0300	0.0300		
PCB-76 (C61)	29:35						0.0300	0.0300		
PCB-66	29:54						0.0301	0.0301		
PCB-55	30:04						0.0286	0.0286		
PCB-56	30:35						0.0307	0.0307		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:47						0.0337	0.0337		
PCB-80	31:11						0.0286	0.0286		
PCB-79	32:43						0.0263	0.0263		
PCB-78	33:16						0.0326	0.0326		
PCB-81	33:43						0.0343	0.0343		
PCB-77	34:16						0.0358	0.0358		
S Total Pentachlorobiphenyls					0.2481	0.1672	0.0175	0.0175		RQ
D PCB-104L	25:41	1060483	1.59	1.2161	17.1	17.1	0.0343	0.0343	85.70	
\$ PCB-95L	28:40	265796	1.54	0.7218	6.945	6.945	0.0516	0.0516	104	
* PCB-101L	31:35	1017594	1.60		20.0	20.0				
\$ PCB-111L	34:15	1193993	1.52	1.3699	17.1	17.1	0.0305	0.0305	85.65	
D PCB-123L	36:12	1078020	1.52	0.9731	17.2	17.2	0.2945	0.2945	85.95	
D PCB-118L	36:32	1138509	1.59	1.0102	17.5	17.5	0.2837	0.2837	87.45	
D PCB-114L	37:04	1090873	1.47	0.9949	17.0	17.0	0.2880	0.2880	85.08	
D PCB-105L	37:43	1070186	1.48	0.9514	17.5	17.5	0.3012	0.3012	87.28	
* PCB-127L	39:11	1288793	1.52		20.0	20.0				
D PCB-126L	40:48	1072761	1.57	0.9439	17.6	17.6	0.3036	0.3036	88.19	
PCB-104	25:45						0.0103	0.0103		
PCB-96	26:08						0.009503	0.009503		
PCB-103	28:02						0.0119	0.0119		
PCB-94	28:16						0.0136	0.0136		
PCB-95	28:43						0.0129	0.0129		
PCB-93	28:55						0.0123	0.0123		
PCB-100 (C93)	28:55						0.0123	0.0123		
PCB-98	29:04						0.0126	0.0126		
PCB-102 (C98)	29:04						0.0126	0.0126		
PCB-88	29:34						0.0130	0.0130		
PCB-91 (C88)	29:34						0.0130	0.0130		
PCB-84	29:49						0.0142	0.0142		
PCB-89	30:17						0.0133	0.0133		
PCB-121	30:40						0.008019	0.008019		
PCB-92	31:03						0.0122	0.0122		
PCB-90	31:36	1693	1.55	0.9550	0.0729	0.0334	0.0109	0.0109		RQM
PCB-101 (C90)	31:36	1693	1.55	0.9550	0.0729	0.0334	0.0109	0.0109		RQM
PCB-113 (C90)	31:36	1693	1.55	0.9550	0.0729	0.0334	0.0109	0.0109		RQM
PCB-83	32:07	953	1.55	0.8385	0.0254	0.0214	0.0124	0.0124		RQM
PCB-99 (C83)	32:07	953	1.55	0.8385	0.0254	0.0214	0.0124	0.0124		RQM
PCB-112	32:20						0.007367	0.007367		
PCB-86	32:39	4247	1.55	1.0473	0.0840	0.0765	0.0099	0.0099		RQM
PCB-87 (C86)	32:39	4247	1.55	1.0473	0.0840	0.0765	0.0099	0.0099		RQM
PCB-97 (C86)	32:39	4247	1.55	1.0473	0.0840	0.0765	0.0099	0.0099		RQM
PCB-109 (C86)	32:39	4247	1.55	1.0473	0.0840	0.0765	0.0099	0.0099		RQM
PCB-119 (C86)	32:39	4247	1.55	1.0473	0.0840	0.0765	0.0099	0.0099		RQM
PCB-125 (C86)	32:39	4247	1.55	1.0473	0.0840	0.0765	0.0099	0.0099		RQM
PCB-85	33:26						0.0100	0.0100		
PCB-116 (C85)	33:26						0.0100	0.0100		
PCB-117 (C85)	33:26						0.0100	0.0100		
PCB-110	33:33	2264	1.55	1.1919	0.0658	0.0358	0.008723	0.008723		RQM
PCB-115 (C110)	33:33	2264	1.55	1.1919	0.0658	0.0358	0.008723	0.008723		RQM
PCB-82	33:56						0.0125	0.0125		
PCB-111	34:19						0.008574	0.008574		
PCB-120	34:46						0.007042	0.007042		
PCB-108	35:55						0.0304	0.0304		
PCB-124 (C108)	35:55						0.0304	0.0304		
PCB-107	36:10						0.0286	0.0286		
PCB-123	36:16						0.0321	0.0321		
PCB-106	36:23						0.0319	0.0319		
PCB-118	36:36						0.0276	0.0276		
PCB-122	36:57						0.0362	0.0362		
PCB-114	37:07						0.0314	0.0314		



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:47						0.0297	0.0297		
PCB-127	39:14						0.0304	0.0304		
PCB-126	40:52						0.0331	0.0331		
S Total Hexachlorobiphenyls					0.1126	0.0920	0.003928	0.003928		RQ
D PCB-155L	31:20	930988	1.25	1.0851	16.9	16.9	0.0156	0.0156	84.31	
\$ PCB-153L	38:23	391497	1.31	0.9169	6.025	6.025	0.1478	0.1478	90.38	
* PCB-138L	39:39	1312749	1.27		20.0	20.0				
D PCB-167L	42:39	1434802	1.28	1.2572	17.4	17.4	0.0908	0.0908	86.93	
D PCB-156L	43:49	2818700	1.27	1.2106	35.5	35.5	0.0943	0.0943	88.68	
D PCB-157L (C156L)	43:49	2818700	1.27	1.2106	35.5	35.5	0.0943	0.0943	88.68	
D PCB-169L	47:02	1415454	1.23	1.2439	17.3	17.3	0.0917	0.0917	86.69	
PCB-155	31:23						0.003364	0.003364		
PCB-152	31:37						0.003211	0.003211		
PCB-150	31:46						0.003136	0.003136		
PCB-136	32:09						0.003141	0.003141		
PCB-145	32:26						0.003280	0.003280		
PCB-148	33:56						0.004179	0.004179		
PCB-135	34:32						0.004379	0.004379		
PCB-151 (C135)	34:32						0.004379	0.004379		
PCB-154	34:46						0.003908	0.003908		
PCB-144	35:05						0.004046	0.004046		
PCB-147	35:28						0.004276	0.004276		
PCB-149 (C147)	35:28						0.004276	0.004276		
PCB-134	35:46						0.004804	0.004804		
PCB-143 (C134)	35:46						0.004804	0.004804		
PCB-139	36:02						0.004364	0.004364		
PCB-140 (C139)	36:02						0.004364	0.004364		
PCB-131	36:16						0.005101	0.005101		
PCB-142	36:24						0.005098	0.005098		
PCB-132	36:42	371	1.24	0.7489	0.0138	0.006991	0.005110	0.005110		RQ
PCB-133	37:13						0.004727	0.004727		
PCB-165	37:36						0.003735	0.003735		
PCB-146	37:51						0.003971	0.003971		
PCB-161	37:59						0.003390	0.003390		
PCB-153	38:26	3086	1.38	1.0938	0.0398	0.0398	0.003499	0.003499		M
PCB-168 (C153)	38:26	3086	1.38	1.0938	0.0398	0.0398	0.003499	0.003499		M
PCB-141	38:40						0.004371	0.004371		
PCB-130	39:05						0.005427	0.005427		
PCB-137	39:17						0.004927	0.004927		
PCB-164	39:25						0.003686	0.003686		
PCB-129	39:40	2777	1.24	0.9464	0.0523	0.0414	0.004044	0.004044		RQM
PCB-138 (C129)	39:40	2777	1.24	0.9464	0.0523	0.0414	0.004044	0.004044		RQM
PCB-160 (C129)	39:40	2777	1.24	0.9464	0.0523	0.0414	0.004044	0.004044		RQM
PCB-163 (C129)	39:40	2777	1.24	0.9464	0.0523	0.0414	0.004044	0.004044		RQM
PCB-158	40:06						0.002919	0.002919		
PCB-128	40:57						0.003893	0.003893		
PCB-166 (C128)	40:57						0.003893	0.003893		
PCB-159	41:57						0.002762	0.002762		
PCB-162	42:15						0.003044	0.003044		
PCB-167	42:41	300	1.24	1.1159	0.006721	0.003747	0.002721	0.002721		RQ
PCB-156	43:52						0.004352	0.004352		
PCB-157 (C156)	43:52						0.004352	0.004352		
PCB-169	47:05						0.002847	0.002847		
S Total Heptachlorobiphenyls					0.0196	0.0159	0.001176	0.001176		RQ
D PCB-188L	37:03	1255274	1.09	1.3133	17.4	17.4	0.0204	0.0204	87.04	
\$ PCB-178L	40:07	927572	1.04	1.0313	16.4	16.4	0.0259	0.0259	81.90	
* PCB-180L	45:11	1098097	1.08		20.0	20.0				
D PCB-170L	46:26	852052	1.04	0.8362	18.6	18.6	0.0320	0.0320	92.79	
D PCB-189L	49:32	1115889	0.99	1.4414	11.9	11.9	0.2882	0.2882	59.43	
PCB-188	37:07						0.000503	0.000503		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:28						0.000476	0.000476		
PCB-184	37:58						0.000497	0.000497		
PCB-176	38:20						0.000551	0.000551		
PCB-186	38:48						0.000461	0.000461		
PCB-178	40:10						0.000760	0.000760		
PCB-175	40:48						0.000714	0.000714		
PCB-187	41:04						0.000617	0.000617		
PCB-182	41:16						0.000735	0.000735		
PCB-183	41:41						0.000692	0.000692		
PCB-185 (C183)	41:41						0.000692	0.000692		
PCB-174	41:51						0.000705	0.000705		RQU
PCB-177	42:22						0.000696	0.000696		
PCB-181	42:44						0.000715	0.000715		
PCB-171	42:58						0.000728	0.000728		
PCB-173 (C171)	42:58						0.000728	0.000728		
PCB-172	44:36						0.000798	0.000798		
PCB-192	44:51						0.000505	0.000505		RQU
PCB-180	45:10	980	1.05	1.1676	0.0196	0.0159	0.000582	0.000582		RQ
PCB-193 (C180)	45:10	980	1.05	1.1676	0.0196	0.0159	0.000582	0.000582		RQ
PCB-191	45:36						0.000527	0.000527		
PCB-170	46:31						0.000708	0.000708		
PCB-190	47:01						0.000510	0.000510		
PCB-189	49:37						0.0122	0.0122		
S Total Octachlorobiphenyls					0.0175	0.005865	0.004170	0.004170		RQ
D PCB-202L	42:24	962349	0.88	0.9818	17.9	17.9	0.0394	0.0394	89.26	
* PCB-194L	51:39	1302590	0.90		20.0	20.0				
D PCB-205L	52:07	1369628	0.87	1.1786	17.8	17.8	0.1871	0.1871	89.22	
PCB-202	42:29						0.003570	0.003570		
PCB-201	43:24						0.003791	0.003791		
PCB-204	44:03						0.003527	0.003527		
PCB-197	44:18						0.003228	0.003228		
PCB-200	44:25						0.003672	0.003672		
PCB-198	47:10						0.004252	0.004252		
PCB-199 (C198)	47:10						0.004252	0.004252		
PCB-196	47:51						0.004737	0.004737		
PCB-203	48:03						0.003980	0.003980		
PCB-195	49:23						0.005796	0.005796		
PCB-194	51:39	391	0.89	0.9735	0.0175	0.005865	0.004920	0.004920		RQM
PCB-205	52:11						0.004403	0.004403		
S Total Nonachlorobiphenyls							0.0701	0.0701		
D PCB-208L	49:05	1363428	0.79	0.9576	21.9	21.9	0.0953	0.0953	109	
D PCB-206L	53:52	971419	0.77	0.6947	21.5	21.5	0.1314	0.1314	107	
PCB-208	49:08						0.0599	0.0599		
PCB-207	50:03						0.0573	0.0573		
PCB-206	53:56						0.0701	0.0701		
D PCB-209L	55:28	1004755	0.68	0.6669	23.1	23.1	0.0637	0.0637	116	
DCB Decachlorobiphenyl	55:33						0.005445	0.005445		
S Polychlorinated biphenyls, Total					17.3		0.0226	0.0226		RQ

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-7-c5x.d  
Lims ID: 140-36940-A-7-C  
Client ID: M23 - EPN 4-1\IN-701-RUN 7-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 17:53:00 ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-011  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 11:47:49 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: P0IK

Date: 29-Jun-2024 11:47:49

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:39	11:40	-2	0.728	1114572	451332	471	1177	958		
202.0766	11:39	11:40	-2	0.728	376220	142997	1927	4817	74	2.96(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:48	-2	0.862	1196211	414541	471	1177	880		
202.0766	13:47	13:48	-2	0.862	388582	129041	1927	4817	67	3.08(2.66-3.60)	
PCB-1											
188.0393	11:40	11:39	-1	1.001	2275042	894034	1037	2592	862		
190.0363	11:40	11:39	-1	1.001	791011	313294	302	755	1037	2.88(2.66-3.60)	
PCB-2											
188.0393	13:37	13:38	-2	0.988	7625981	2566479	1037	2592	2475		
190.0363	13:37	13:38	-2	0.988	2661419	897747	302	755	2973	2.87(2.66-3.60)	
PCB-3											
188.0393	13:48	13:49	-2	1.001	6283610	2132327	1037	2592	2056		
190.0363	13:48	13:49	-2	1.001	2185345	741478	302	755	2455	2.88(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:03	-2	0.878	444879	145450	469	1172	310		
236.0376	14:02	14:03	-2	0.878	272251	90523	312	780	290	1.63(1.33-1.79)	
PCB-9L											
234.0406	16:00	16:01	-2		1072639	310191	469	1172	661		
236.0376	16:00	16:01	-2		643596	198048	312	780	635	1.67(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	-2	1.200	264720	69336	469	1172	148		M
236.0376	16:50	16:50	-2	1.200	157685	44175	312	780	142	1.68(1.33-1.79)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											M
234.0406	19:55	19:55	-1	1.246	891597	216808	469	1172	462		M
236.0376	19:55	19:55	-1	1.246	522244	125508	312	780	402	1.71(1.33-1.79)	
PCB-4											RQ
222.0003	14:04	14:05	-2	1.002	6901	3103	245	612	13		
223.9974	14:03	14:05	-2	1.001	8804	2552	190	475	13	0.78(1.33-1.79)	
Empc Correction					4423	1989	190	475	10		
PCB-10											
222.0003	14:15						245	612			
223.9974	14:15						190	475			
PCB-9											RQ
222.0003	16:00	16:01	-2	1.141	7578	2646	245	612	11		
223.9974	16:01	16:01	-1	1.141	6468	1551	190	475	8	1.17(1.33-1.79)	
Empc Correction					4857	1696	190	475	9		
PCB-7											
222.0003	16:10	16:12	-2	1.152	362682	105565	245	612	431		
223.9974	16:10	16:12	-2	1.152	243254	68197	190	475	359	1.49(1.33-1.79)	
PCB-6											RQ
222.0003	16:25	16:27	-2	1.170	15994	4430	245	612	18		
223.9974	16:25	16:27	-2	1.170	17936	3836	190	475	20	0.89(1.33-1.79)	
Empc Correction					10252	2839	190	475	15		
PCB-5											
222.0003	16:44	16:45	-2	1.192	14522	4729	245	612	19		
223.9974	16:44	16:45	-2	1.192	9476	2579	190	475	14	1.53(1.33-1.79)	
PCB-8											
222.0003	16:51	16:52	-2	1.200	19585	5820	245	612	24		
223.9974	16:51	16:52	-2	1.200	12459	3348	190	475	18	1.57(1.33-1.79)	
PCB-14											
222.0003	18:29	18:29	-1	0.927	22526	6484	245	612	26		
223.9974	18:28	18:29	-2	0.927	13577	3212	190	475	17	1.66(1.33-1.79)	
PCB-11											
222.0003	19:20	19:19	0	0.970	139058	34059	245	612	139		
223.9974	19:20	19:19	0	0.970	85014	19569	190	475	103	1.64(1.33-1.79)	
PCB-12											
222.0003	19:39	19:37	1	0.986	76606	15871	245	612	65		
223.9974	19:39	19:37	1	0.986	46856	9256	190	475	49	1.63(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:39	19:37	1	0.986	76606	15871	245	612	65		
223.9974	19:39	19:37	1	0.986	46856	9256	190	475	49	1.63(1.33-1.79)	
PCB-15											M
222.0003	19:58	19:56	1	1.002	10743	2325	245	612	9		
223.9974	19:56	19:56	-1	1.001	6778	1679	190	475	9	1.58(1.33-1.79)	M
PCB-19L											
268.0016	17:08	17:08	-2	0.841	255087	73905	599	1497	123		
269.9986	17:08	17:08	-2	0.841	254461	72941	1220	3050	60	1.00(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-32L											
268.0016	20:23	20:25	-2		588788	146659	599	1497	245		
269.9986	20:24	20:25	-1		552092	138948	1220	3050	114	1.07(0.88-1.20)	
PCB-31L											
268.0016	22:38	22:39	-1		910786	219491	748	1870	293		
269.9986	22:38	22:39	-1		899598	220202	400	1000	551	1.01(0.88-1.20)	
PCB-28L											
268.0016	22:55	22:56	-1	1.013	738489	167308	748	1870	224		
269.9986	22:55	22:56	-1	1.013	714034	159890	400	1000	400	1.03(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:56	-2	1.190	648839	125452	748	1870	168		
269.9986	26:55	26:56	-2	1.190	614244	122046	400	1000	305	1.06(0.88-1.20)	
PCB-19											
255.9613	17:10						7	17			
257.9584	17:10						10	25			
PCB-18											
255.9613	19:01	19:01	1	1.110	1172	363	7	17	52		RQa
	Empc Correction				996	326	7	17	47		a
257.9584	19:02	19:01	2	1.110	958	314	10	25	31	1.22(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:01	19:01	1	1.110	1172	363	7	17	52		RQa
	Empc Correction				996	326	7	17	47		a
257.9584	19:02	19:01	2	1.110	958	314	10	25	31	1.22(0.88-1.20)	
PCB-17											
255.9613	19:27	19:27	0	1.135	494	153	7	17	22		RQM
257.9584	19:25	19:27	-2	1.133	754	210	10	25	21	0.66(0.88-1.20)	M
	Empc Correction				475	147	10	25	15		
PCB-27											
255.9613	19:39	19:40	-2	1.146	700	320	7	17	46		M
257.9584	19:40	19:40	0	1.148	651	203	10	25	20	1.08(0.88-1.20)	M
PCB-24											
255.9613	19:47						7	17			
257.9584	19:47						10	25			
PCB-16											
255.9613	19:54						7	17			
257.9584	19:54						10	25			
PCB-32											
255.9613	20:23						7	17			
257.9584	20:23						10	25			
PCB-34											
255.9613	21:39						45	112			
257.9584	21:39						43	107			
PCB-23											
255.9613	21:47						45	112			
257.9584	21:47						43	107			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-26											RQ
255.9613	22:06	22:07	-3	1.289	1329	332	45	112	7		
	Empc Correction				945	236	45	112	5		
257.9584	22:06	22:07	-2	1.290	909	227	43	107	5	1.46(0.88-1.20)	
PCB-29 (C26)											RQ
255.9613	22:06	22:07	-3	1.289	1329	332	45	112	7		
	Empc Correction				945	236	45	112	5		
257.9584	22:06	22:07	-2	1.290	909	227	43	107	5	1.46(0.88-1.20)	
PCB-25											
255.9613	22:21						45	112			
257.9584	22:21						43	107			
PCB-31											RQ
255.9613	22:39	22:40	-1	0.841	2538	993	45	112	22		
	Empc Correction				1853	605	45	112	13		
257.9584	22:38	22:40	-3	0.840	1782	582	43	107	14	1.42(0.88-1.20)	
PCB-20											RQM
255.9613	22:55	22:57	-4	0.851	3370	654	45	112	15		
	Empc Correction				2789	581	45	112	13		
257.9584	22:57	22:57	-2	0.852	2682	559	43	107	13	1.26(0.88-1.20)	M
PCB-28 (C20)											RQM
255.9613	22:55	22:57	-4	0.851	3370	654	45	112	15		
	Empc Correction				2789	581	45	112	13		
257.9584	22:57	22:57	-2	0.852	2682	559	43	107	13	1.26(0.88-1.20)	M
PCB-21											
255.9613	23:08						45	112			
257.9584	23:08						43	107			
PCB-33 (C21)											
255.9613	23:08						45	112			
257.9584	23:08						43	107			
PCB-22											
255.9613	23:35						45	112			
257.9584	23:35						43	107			
PCB-36											
255.9613	25:08						45	112			
257.9584	25:08						43	107			
PCB-39											
255.9613	25:30						45	112			
257.9584	25:30						43	107			
PCB-38											
255.9613	26:04						45	112			
257.9584	26:04						43	107			
PCB-35											RQ
255.9613	26:31	26:33	-3	0.985	1776	571	45	112	13		
	Empc Correction				1071	328	45	112	7		
257.9584	26:32	26:33	-2	0.986	1030	316	43	107	7	1.72(0.88-1.20)	
PCB-37											
255.9613	26:57						45	112			
257.9584	26:57						43	107			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54L											
301.9626	20:13	20:13	-1	0.817	234947	61719	73	182	845	0.81(0.65-0.89)	
303.9597	20:13	20:13	-1	0.817	290603	73304	24	60	3054		
PCB-52L											
301.9626	24:45	24:47	-2		653406	148042	299	747	495	0.81(0.65-0.89)	
303.9597	24:45	24:47	-2		810685	187548	227	567	826		
PCB-79L											
301.9626	32:40	32:41	-2	0.970	230952	44024	299	747	147	0.79(0.65-0.89)	
303.9597	32:40	32:41	-2	0.970	291489	56934	227	567	251		
PCB-81L											
301.9626	33:40	33:39	-2	1.360	696182	138254	299	747	462	0.82(0.65-0.89)	
303.9597	33:40	33:39	-2	1.360	845725	160021	227	567	705		
PCB-77L											
301.9626	34:13	34:14	-2	1.383	736750	131743	299	747	441	0.86(0.65-0.89)	
303.9597	34:13	34:14	-2	1.383	855837	153191	227	567	675		
PCB-54											
289.9224	20:16						6	15			
291.9194	20:16						13	32			
PCB-50											
289.9224	22:24						6	15			
291.9194	22:24						215	537			
PCB-53 (C50)											
289.9224	22:24						6	15			
291.9194	22:24						215	537			
PCB-45											
289.9224	23:07	23:08	-2	1.143	8927	2326	6	15	388		RQ
291.9194	23:08	23:08	-1	1.144	14309	4026	215	537	19	0.62(0.65-0.89)	
	Empc Correction				11593	3020	215	537	14		
PCB-51 (C45)											
289.9224	23:07	23:08	-2	1.143	8927	2326	6	15	388		RQ
291.9194	23:08	23:08	-1	1.144	14309	4026	215	537	19	0.62(0.65-0.89)	
	Empc Correction				11593	3020	215	537	14		
PCB-46											
289.9224	23:23						6	15			
291.9194	23:23						215	537			
PCB-52											
289.9224	24:47						6	15			
291.9194	24:47						215	537			
PCB-43											
289.9224	24:55						6	15			
291.9194	24:55						215	537			
PCB-73 (C43)											
289.9224	24:55						6	15			
291.9194	24:55						215	537			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-49											
289.9224	25:13						6	15			
291.9194	25:13						215	537			
PCB-69 (C49)											
289.9224	25:13						6	15			
291.9194	25:13						215	537			
PCB-48											
289.9224	25:33						6	15			
291.9194	25:33						215	537			
PCB-44											
289.9224	25:48	25:49	-1	1.276	20739	5170	6	15	862		M
291.9194	25:49	25:49	0	1.276	29306	6276	215	537	29	0.71(0.65-0.89)	M
PCB-47 (C44)											
289.9224	25:48	25:49	-1	1.276	20739	5170	6	15	862		M
291.9194	25:49	25:49	0	1.276	29306	6276	215	537	29	0.71(0.65-0.89)	M
PCB-65 (C44)											
289.9224	25:48	25:49	-1	1.276	20739	5170	6	15	862		M
291.9194	25:49	25:49	0	1.276	29306	6276	215	537	29	0.71(0.65-0.89)	M
PCB-59											
289.9224	26:06						6	15			
291.9194	26:06						215	537			
PCB-62 (C59)											
289.9224	26:06						6	15			
291.9194	26:06						215	537			
PCB-75 (C59)											
289.9224	26:06						6	15			
291.9194	26:06						215	537			
PCB-42											
289.9224	26:19						6	15			
291.9194	26:19						215	537			
PCB-40											
289.9224	26:48						6	15			
291.9194	26:48						215	537			
PCB-41 (C40)											
289.9224	26:48						6	15			
291.9194	26:48						215	537			
PCB-71 (C40)											
289.9224	26:48						6	15			
291.9194	26:48						215	537			
PCB-64											
289.9224	27:01						6	15			
291.9194	27:01						215	537			
PCB-72											
289.9224	27:50						6	15			
291.9194	27:50						215	537			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-68											RQM
289.9224	28:07	28:05	-2	0.835	8944	2275	6	15	379		
	Empc Correction				5057	902	6	15	150		
291.9194	28:05	28:05	-4	0.834	6568	1172	215	537	5	1.36(0.65-0.89)	M
PCB-57											
289.9224	28:33						6	15			
291.9194	28:33						215	537			
PCB-58											
289.9224	28:48						6	15			
291.9194	28:48						215	537			
PCB-67											
289.9224	28:57						6	15			
291.9194	28:57						215	537			
PCB-63											
289.9224	29:13						6	15			
291.9194	29:13						215	537			
PCB-61											
289.9224	29:34						6	15			
291.9194	29:34						215	537			
PCB-70 (C61)											
289.9224	29:34						6	15			
291.9194	29:34						215	537			
PCB-74 (C61)											
289.9224	29:34						6	15			
291.9194	29:34						215	537			
PCB-76 (C61)											
289.9224	29:34						6	15			
291.9194	29:34						215	537			
PCB-66											
289.9224	29:53						6	15			
291.9194	29:53						215	537			
PCB-55											
289.9224	30:03						6	15			
291.9194	30:03						215	537			
PCB-56											
289.9224	30:34						6	15			
291.9194	30:34						215	537			
PCB-60											
289.9224	30:46						6	15			
291.9194	30:46						215	537			
PCB-80											
289.9224	31:09						6	15			
291.9194	31:09						215	537			
PCB-79											
289.9224	32:41						6	15			
291.9194	32:41						215	537			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-78											
289.9224	33:15						6	15			
291.9194	33:15						215	537			
PCB-81											
289.9224	33:41						6	15			
291.9194	33:41						215	537			
PCB-77											
289.9224	34:15						6	15			
291.9194	34:15						215	537			
PCB-104L											
337.9207	25:41	25:42	-2	0.813	651414	151675	113	282	1342		
339.9178	25:41	25:42	-2	0.813	409069	92643	69	172	1343	1.59(1.32-1.78)	
PCB-95L											
337.9207	28:40	28:40	-2	1.116	160956	35132	113	282	311		
339.9178	28:39	28:40	-2	1.115	104840	23094	69	172	335	1.54(1.32-1.78)	
PCB-101L											
337.9207	31:35	31:37	-2		626758	133599	113	282	1182		
339.9178	31:35	31:37	-2		390836	84420	69	172	1223	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:15	34:15	-2	1.085	719775	141391	113	282	1251		
339.9178	34:15	34:15	-2	1.085	474218	94178	69	172	1365	1.52(1.32-1.78)	
PCB-123L											
337.9207	36:12	36:13	-3	1.147	649609	123817	831	2077	149		
339.9178	36:12	36:13	-3	1.147	428411	82696	543	1357	152	1.52(1.32-1.78)	
PCB-118L											
337.9207	36:32	36:32	-2	1.157	698392	131171	831	2077	158		
339.9178	36:32	36:32	-2	1.157	440117	82175	543	1357	151	1.59(1.32-1.78)	
PCB-114L											
337.9207	37:04	37:04	-2	1.174	649894	125341	831	2077	151		
339.9178	37:04	37:04	-2	1.174	440979	83125	543	1357	153	1.47(1.32-1.78)	
PCB-105L											
337.9207	37:43	37:44	-3	1.195	637915	121805	831	2077	147		
339.9178	37:43	37:44	-3	1.195	432271	79506	543	1357	146	1.48(1.32-1.78)	
PCB-127L											
337.9207	39:11	39:13	-3		776986	144373	831	2077	174		
339.9178	39:11	39:13	-2		511807	95359	543	1357	176	1.52(1.32-1.78)	
PCB-126L											
337.9207	40:48	40:48	-2	1.292	655538	120742	831	2077	145		
339.9178	40:48	40:48	-2	1.292	417223	74847	543	1357	138	1.57(1.32-1.78)	
PCB-104											
325.8804	25:43						35	87			
327.8775	25:43						16	40			
PCB-96											
325.8804	26:06						35	87			
327.8775	26:06						16	40			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-103											
325.8804	28:00						35	87			
327.8775	28:00						16	40			
PCB-94											
325.8804	28:14						35	87			
327.8775	28:14						16	40			
PCB-95											
325.8804	28:43						35	87			
327.8775	28:43						16	40			
PCB-93											
325.8804	28:53						35	87			
327.8775	28:53						16	40			
PCB-100 (C93)											
325.8804	28:53						35	87			
327.8775	28:53						16	40			
PCB-98											
325.8804	29:02						35	87			
327.8775	29:02						16	40			
PCB-102 (C98)											
325.8804	29:02						35	87			
327.8775	29:02						16	40			
PCB-88											
325.8804	29:32						35	87			
327.8775	29:32						16	40			
PCB-91 (C88)											
325.8804	29:32						35	87			
327.8775	29:32						16	40			
PCB-84											
325.8804	29:46						35	87			
327.8775	29:46						16	40			
PCB-89											
325.8804	30:14						35	87			
327.8775	30:14						16	40			
PCB-121											
325.8804	30:37						35	87			
327.8775	30:37						16	40			
PCB-92											
325.8804	31:01						35	87			
327.8775	31:01						16	40			
PCB-90											
325.8804	31:36	31:35	-2	1.230	3025	445	35	87	13		RQM
	Empc Correction				1029	282	35	87	8		
327.8775	31:35	31:35	-2	1.230	664	182	16	40	11	4.56(1.32-1.78)	M
PCB-101 (C90)											
325.8804	31:36	31:35	-2	1.230	3025	445	35	87	13		RQM
	Empc Correction				1029	282	35	87	8		
327.8775	31:35	31:35	-2	1.230	664	182	16	40	11	4.56(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-113 (C90)											RQM
325.8804	31:36	31:35	-2	1.230	3025	445	35	87	13		
	Empc Correction				1029	282	35	87	8		
327.8775	31:35	31:35	-2	1.230	664	182	16	40	11	4.56(1.32-1.78)	M
PCB-83											RQM
325.8804	32:07	32:07	-6	1.250	756	285	35	87	8		M
	Empc Correction				579	313	35	87	9		
327.8775	32:08	32:07	-5	1.251	374	202	16	40	13	2.02(1.32-1.78)	
PCB-99 (C83)											RQM
325.8804	32:07	32:07	-6	1.250	756	285	35	87	8		M
	Empc Correction				579	313	35	87	9		
327.8775	32:08	32:07	-5	1.251	374	202	16	40	13	2.02(1.32-1.78)	
PCB-112											
325.8804	32:17						35	87			
327.8775	32:17						16	40			
PCB-86											RQM
325.8804	32:39	32:39	-3	1.271	2582	852	35	87	24		M
327.8775	32:39	32:39	-3	1.271	2081	416	16	40	26	1.24(1.32-1.78)	M
	Empc Correction				1665	549	16	40	34		
PCB-87 (C86)											RQM
325.8804	32:39	32:39	-3	1.271	2582	852	35	87	24		M
327.8775	32:39	32:39	-3	1.271	2081	416	16	40	26	1.24(1.32-1.78)	M
	Empc Correction				1665	549	16	40	34		
PCB-97 (C86)											RQM
325.8804	32:39	32:39	-3	1.271	2582	852	35	87	24		M
327.8775	32:39	32:39	-3	1.271	2081	416	16	40	26	1.24(1.32-1.78)	M
	Empc Correction				1665	549	16	40	34		
PCB-109 (C86)											RQM
325.8804	32:39	32:39	-3	1.271	2582	852	35	87	24		M
327.8775	32:39	32:39	-3	1.271	2081	416	16	40	26	1.24(1.32-1.78)	M
	Empc Correction				1665	549	16	40	34		
PCB-119 (C86)											RQM
325.8804	32:39	32:39	-3	1.271	2582	852	35	87	24		M
327.8775	32:39	32:39	-3	1.271	2081	416	16	40	26	1.24(1.32-1.78)	M
	Empc Correction				1665	549	16	40	34		
PCB-125 (C86)											RQM
325.8804	32:39	32:39	-3	1.271	2582	852	35	87	24		M
327.8775	32:39	32:39	-3	1.271	2081	416	16	40	26	1.24(1.32-1.78)	M
	Empc Correction				1665	549	16	40	34		
PCB-85											
325.8804	33:24						35	87			
327.8775	33:24						16	40			
PCB-116 (C85)											
325.8804	33:24						35	87			
327.8775	33:24						16	40			
PCB-117 (C85)											
325.8804	33:24						35	87			
327.8775	33:24						16	40			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-110											RQM
325.8804	33:33	33:33	-5	1.307	3272	702	35	87	20		M
	Empc Correction				1376	395	35	87	11		
327.8775	33:36	33:33	-2	1.309	888	255	16	40	16	3.68(1.32-1.78)	
PCB-115 (C110)											RQM
325.8804	33:33	33:33	-5	1.307	3272	702	35	87	20		M
	Empc Correction				1376	395	35	87	11		
327.8775	33:36	33:33	-2	1.309	888	255	16	40	16	3.68(1.32-1.78)	
PCB-82											
325.8804	33:53						35	87			
327.8775	33:53						16	40			
PCB-111											
325.8804	34:16						35	87			
327.8775	34:16						16	40			
PCB-120											
325.8804	34:43						35	87			
327.8775	34:43						16	40			
PCB-108											
325.8804	35:51						93	232			
327.8775	35:51						49	122			
PCB-124 (C108)											
325.8804	35:51						93	232			
327.8775	35:51						49	122			
PCB-107											
325.8804	36:06						93	232			
327.8775	36:06						49	122			
PCB-123											
325.8804	36:13						93	232			
327.8775	36:13						49	122			
PCB-106											
325.8804	36:20						93	232			
327.8775	36:20						49	122			
PCB-118											
325.8804	36:34						93	232			
327.8775	36:34						49	122			
PCB-122											
325.8804	36:55						93	232			
327.8775	36:55						49	122			
PCB-114											
325.8804	37:05						93	232			
327.8775	37:05						49	122			
PCB-105											
325.8804	37:44						93	232			
327.8775	37:44						49	122			
PCB-127											
325.8804	39:11						93	232			
327.8775	39:11						49	122			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-126											
325.8804	40:50						93	232			
327.8775	40:50						49	122			
PCB-155L											
371.8817	31:20	31:21	-2	0.790	516548	105315	41	102	2569		
373.8788	31:20	31:21	-2	0.790	414440	83539	33	82	2531	1.25(1.05-1.43)	
PCB-153L											
371.8817	38:23	38:24	-3	0.900	221880	44080	130	325	339		
373.8788	38:24	38:24	-2	0.900	169617	32694	465	1162	70	1.31(1.05-1.43)	
PCB-138L											
371.8817	39:39	39:42	-3		734724	146645	130	325	1128		
373.8788	39:39	39:42	-3		578025	113984	465	1162	245	1.27(1.05-1.43)	
PCB-167L											
371.8817	42:39	42:39	-3	1.076	804301	156058	130	325	1200		
373.8788	42:39	42:39	-3	1.076	630501	120546	465	1162	259	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:49	43:49	-2	1.105	1575346	193560	130	325	1489		
373.8788	43:50	43:49	-1	1.105	1243354	154118	465	1162	331	1.27(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:49	43:49	-2	1.105	1575346	193560	130	325	1489		
373.8788	43:50	43:49	-1	1.105	1243354	154118	465	1162	331	1.27(1.05-1.43)	
PCB-169L											
371.8817	47:02	47:02	-2	1.186	779373	138881	130	325	1068		
373.8788	47:02	47:02	-2	1.186	636081	114831	465	1162	247	1.23(1.05-1.43)	
PCB-155											
359.8415	31:21						11	27			
361.8385	31:21						1	2			
PCB-152											
359.8415	31:35						11	27			
361.8385	31:35						1	2			
PCB-150											
359.8415	31:44						11	27			
361.8385	31:44						1	2			
PCB-136											
359.8415	32:07						11	27			
361.8385	32:07						1	2			
PCB-145											
359.8415	32:24						11	27			
361.8385	32:24						1	2			
PCB-148											
359.8415	33:53						11	27			
361.8385	33:53						1	2			
PCB-135											
359.8415	34:29						11	27			
361.8385	34:29						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-151 (C135)											
359.8415	34:29						11	27			
361.8385	34:29						1	2			
PCB-154											
359.8415	34:44						11	27			
361.8385	34:44						1	2			
PCB-144											
359.8415	35:04						11	27			
361.8385	35:04						1	2			
PCB-147											
359.8415	35:26						12	30			
361.8385	35:26						5	12			
PCB-149 (C147)											
359.8415	35:26						12	30			
361.8385	35:26						5	12			
PCB-134											
359.8415	35:43						12	30			
361.8385	35:43						5	12			
PCB-143 (C134)											
359.8415	35:43						12	30			
361.8385	35:43						5	12			
PCB-139											
359.8415	36:01						12	30			
361.8385	36:01						5	12			
PCB-140 (C139)											
359.8415	36:01						12	30			
361.8385	36:01						5	12			
PCB-131											
359.8415	36:13						12	30			
361.8385	36:13						5	12			
PCB-142											
359.8415	36:21						12	30			
361.8385	36:21						5	12			
PCB-132											
359.8415	36:42	36:42	-1	1.172	566	146	12	30	12		RQ
	Empc Correction				205	60	12	30	5		
361.8385	36:45	36:42	1	1.173	166	49	5	12	10	3.41(1.05-1.43)	
PCB-133											
359.8415	37:10						12	30			
361.8385	37:10						5	12			
PCB-165											
359.8415	37:34						12	30			
361.8385	37:34						5	12			
PCB-146											
359.8415	37:49						12	30			
361.8385	37:49						5	12			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-161											
359.8415	37:57						12	30			
361.8385	37:57						5	12			
PCB-153											
359.8415	38:26	38:23	-3	0.901	1791	622	12	30	52		M
361.8385	38:23	38:23	-6	0.900	1295	396	5	12	79	1.38(1.05-1.43)	M
PCB-168 (C153)											
359.8415	38:26	38:23	-3	0.901	1791	622	12	30	52		M
361.8385	38:23	38:23	-6	0.900	1295	396	5	12	79	1.38(1.05-1.43)	M
PCB-141											
359.8415	38:38						12	30			
361.8385	38:38						5	12			
PCB-130											
359.8415	39:02						12	30			
361.8385	39:02						5	12			
PCB-137											
359.8415	39:15						12	30			
361.8385	39:15						5	12			
PCB-164											
359.8415	39:23						12	30			
361.8385	39:23						5	12			
PCB-129											
359.8415	39:40	39:36	-3	0.930	2265	537	12	30	45		RQM
	Empc Correction				1537	347	12	30	29		M
361.8385	39:36	39:36	-7	0.929	1240	280	5	12	56	1.83(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:40	39:36	-3	0.930	2265	537	12	30	45		RQM
	Empc Correction				1537	347	12	30	29		M
361.8385	39:36	39:36	-7	0.929	1240	280	5	12	56	1.83(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:40	39:36	-3	0.930	2265	537	12	30	45		RQM
	Empc Correction				1537	347	12	30	29		M
361.8385	39:36	39:36	-7	0.929	1240	280	5	12	56	1.83(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:40	39:36	-3	0.930	2265	537	12	30	45		RQM
	Empc Correction				1537	347	12	30	29		M
361.8385	39:36	39:36	-7	0.929	1240	280	5	12	56	1.83(1.05-1.43)	M
PCB-158											
359.8415	40:04						12	30			
361.8385	40:04						5	12			
PCB-128											
359.8415	40:55						12	30			
361.8385	40:55						5	12			
PCB-166 (C128)											
359.8415	40:55						12	30			
361.8385	40:55						5	12			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-159											
359.8415	41:55						12	30			
361.8385	41:55						5	12			
PCB-162											
359.8415	42:12						12	30			
361.8385	42:12						5	12			
PCB-167											
359.8415	42:41	42:40	-1	1.001	404	118	12	30	10		RQ
	Empc Correction				166	40	12	30	3		
361.8385	42:41	42:40	-1	1.001	134	33	5	12	7	3.01(1.05-1.43)	
PCB-156											
359.8415	43:50						12	30			
361.8385	43:50						5	12			
PCB-157 (C156)											
359.8415	43:50						12	30			
361.8385	43:50						5	12			
PCB-169											
359.8415	47:04						12	30			
361.8385	47:04						5	12			
PCB-188L											
405.8428	37:03	37:04	-3	0.820	653987	126760	110	275	1152		
407.8398	37:03	37:04	-3	0.820	601287	118360	1	2	118360	1.09(0.89-1.21)	
PCB-178L											
405.8428	40:07	40:07	-2	0.888	473422	94296	110	275	857		
407.8398	40:07	40:07	-2	0.888	454150	87808	1	2	87808	1.04(0.89-1.21)	
PCB-180L											
405.8428	45:11	45:14	-3		569625	110291	110	275	1003		
407.8398	45:11	45:14	-3		528472	96763	1	2	96763	1.08(0.89-1.21)	
PCB-170L											
405.8428	46:26	46:27	-3	1.028	434637	87316	110	275	794		
407.8398	46:26	46:27	-3	1.028	417415	79417	1	2	79417	1.04(0.89-1.21)	
PCB-189L											
405.8428	49:32	49:33	-3	1.097	556177	100723	995	2487	101		
407.8398	49:33	49:33	-2	1.097	559712	103130	999	2497	103	0.99(0.89-1.21)	
PCB-188											
393.8025	37:04						1	2			
395.7995	37:04						2	5			
PCB-179											
393.8025	37:26						1	2			
395.7995	37:26						2	5			
PCB-184											
393.8025	37:56						1	2			
395.7995	37:56						2	5			
PCB-176											
393.8025	38:18						1	2			
395.7995	38:18						2	5			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-186											
393.8025	38:45						1	2			
395.7995	38:45						2	5			
PCB-178											
393.8025	40:07						1	2			
395.7995	40:07						2	5			
PCB-175											
393.8025	40:45						1	2			
395.7995	40:45						2	5			
PCB-187											
393.8025	41:01						1	2			
395.7995	41:01						2	5			
PCB-182											
393.8025	41:14						1	2			
395.7995	41:14						2	5			
PCB-183											
393.8025	41:39						1	2			
395.7995	41:39						2	5			
PCB-185 (C183)											
393.8025	41:39						1	2			
395.7995	41:39						2	5			
PCB-174											
393.8025	41:53						1	2			RQU
395.7995	41:53						2	5			
PCB-177											
393.8025	42:19						1	2			
395.7995	42:19						2	5			
PCB-181											
393.8025	42:41						1	2			
395.7995	42:41						2	5			
PCB-171											
393.8025	42:56						1	2			
395.7995	42:56						2	5			
PCB-173 (C171)											
393.8025	42:56						1	2			
395.7995	42:56						2	5			
PCB-172											
393.8025	44:35						1	2			
395.7995	44:35						2	5			
PCB-192											
393.8025	44:51						1	2			RQU
395.7995	44:51						2	5			
PCB-180											
393.8025	45:10	45:12	-3	0.912	502	142	1	2	142		RQ
395.7995	45:11	45:12	-2	0.912	704	238	2	5	119	0.71(0.89-1.21)	
Empc Correction					478	135	2	5	68		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-193 (C180)											RQ
393.8025	45:10	45:12	-3	0.912	502	142	1	2	142		
395.7995	45:11	45:12	-2	0.912	704	238	2	5	119	0.71(0.89-1.21)	
Empc Correction					478	135	2	5	68		
PCB-191											
393.8025	45:34						1	2			
395.7995	45:34						2	5			
PCB-170											
393.8025	46:28						1	2			
395.7995	46:28						2	5			
PCB-190											
393.8025	47:00						1	2			
395.7995	47:00						2	5			
PCB-189											
393.8025	49:35						18	45			
395.7995	49:35						30	75			
PCB-202L											
439.8038	42:24	42:25	-3	0.821	450801	88121	72	180	1224		
441.8008	42:24	42:25	-3	0.821	511548	101165	88	220	1150	0.88(0.76-1.02)	
PCB-194L											
439.8038	51:39	51:42	-3		616333	112221	924	2310	121		
441.8008	51:39	51:42	-3		686257	127739	134	335	953	0.90(0.76-1.02)	
PCB-205L											
439.8038	52:07	52:08	-3	1.009	638802	119915	924	2310	130		
441.8008	52:07	52:08	-3	1.009	730826	138996	134	335	1037	0.87(0.76-1.02)	
PCB-202											
427.7635	42:27						6	15			
429.7606	42:27						8	20			
PCB-201											
427.7635	43:23						6	15			
429.7606	43:23						8	20			
PCB-204											
427.7635	44:01						6	15			
429.7606	44:01						8	20			
PCB-197											
427.7635	44:15						6	15			
429.7606	44:15						8	20			
PCB-200											
427.7635	44:22						6	15			
429.7606	44:22						8	20			
PCB-198											
427.7635	47:09						6	15			
429.7606	47:09						8	20			
PCB-199 (C198)											
427.7635	47:09						6	15			
429.7606	47:09						8	20			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-196											
427.7635	47:49						6	15			
429.7606	47:49						8	20			
PCB-203											
427.7635	48:01						6	15			
429.7606	48:01						8	20			
PCB-195											
427.7635	49:20						11	27			
429.7606	49:20						14	35			
PCB-194											
427.7635	51:39	51:39	-4	0.991	963	251	11	27	23		RQM
	Empc Correction				184	40	11	27	4		M
429.7606	51:43	51:39	0	0.992	207	46	14	35	3	4.65(0.76-1.02)	
PCB-205											
427.7635	52:08						11	27			
429.7606	52:08						14	35			
PCB-208L											
473.7648	49:05	49:05	-2	0.950	599689	112650	135	337	834		
475.7619	49:04	49:05	-3	0.950	763739	138509	303	757	457	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:52	53:52	-3	1.043	421434	75919	135	337	562		
475.7619	53:52	53:52	-2	1.043	549985	106938	303	757	353	0.77(0.65-0.89)	
PCB-208											
461.7246	49:06						17	42			
463.7216	49:06						325	812			
PCB-207											
461.7246	50:01						17	42			
463.7216	50:01						325	812			
PCB-206											
461.7246	53:55						17	42			
463.7216	53:55						325	812			
PCB-209L											
507.7258	55:28	55:30	-4	1.074	407655	68077	108	270	630		
509.7229	55:29	55:30	-3	1.074	597100	105500	96	240	1099	0.68(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:30						14	35			
497.6826	55:30						7	17			

### QC Flag Legend

#### Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

#### Review Flags

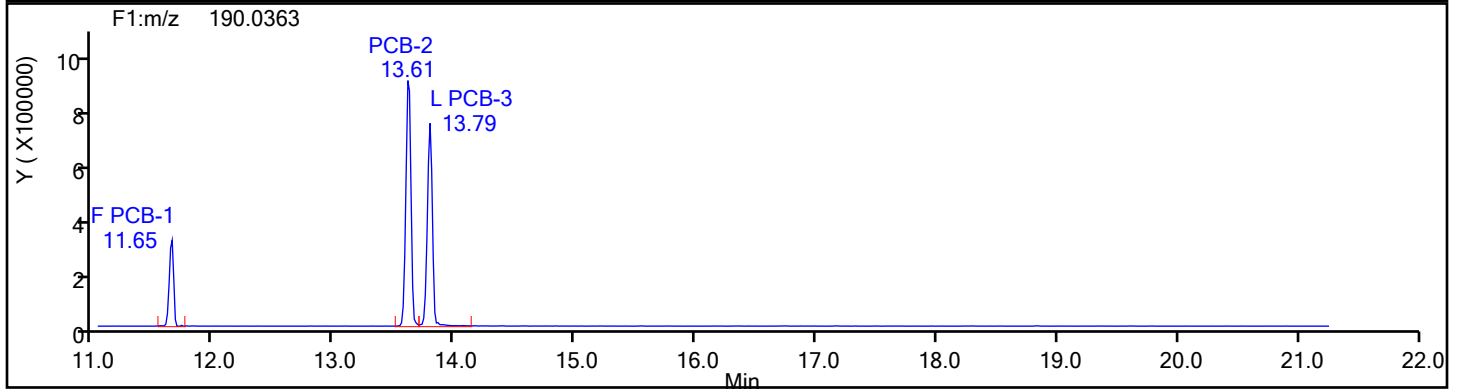
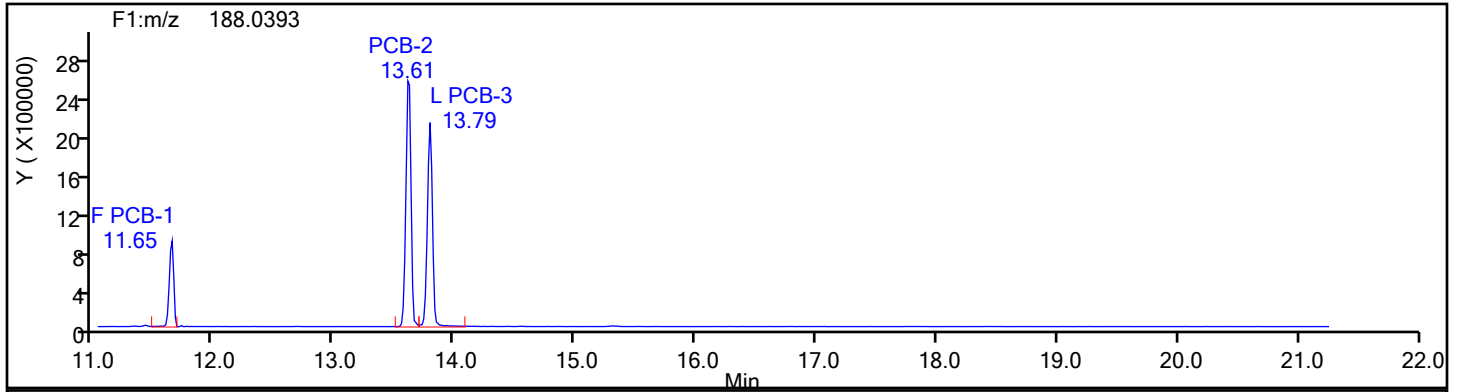
M - Manually Integrated

U - Marked Undetected

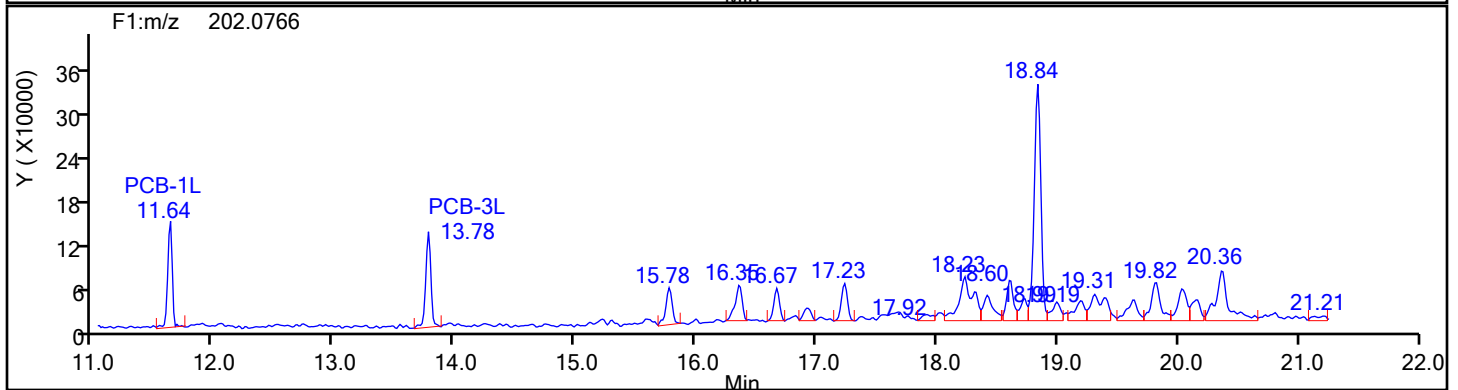
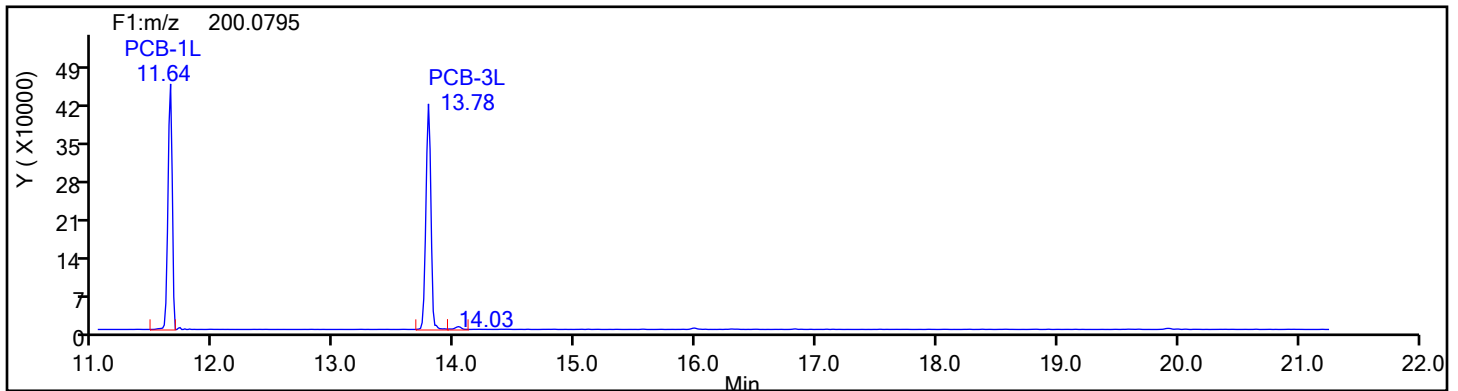
a - User Assigned ID

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-7-c5x.d  
Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

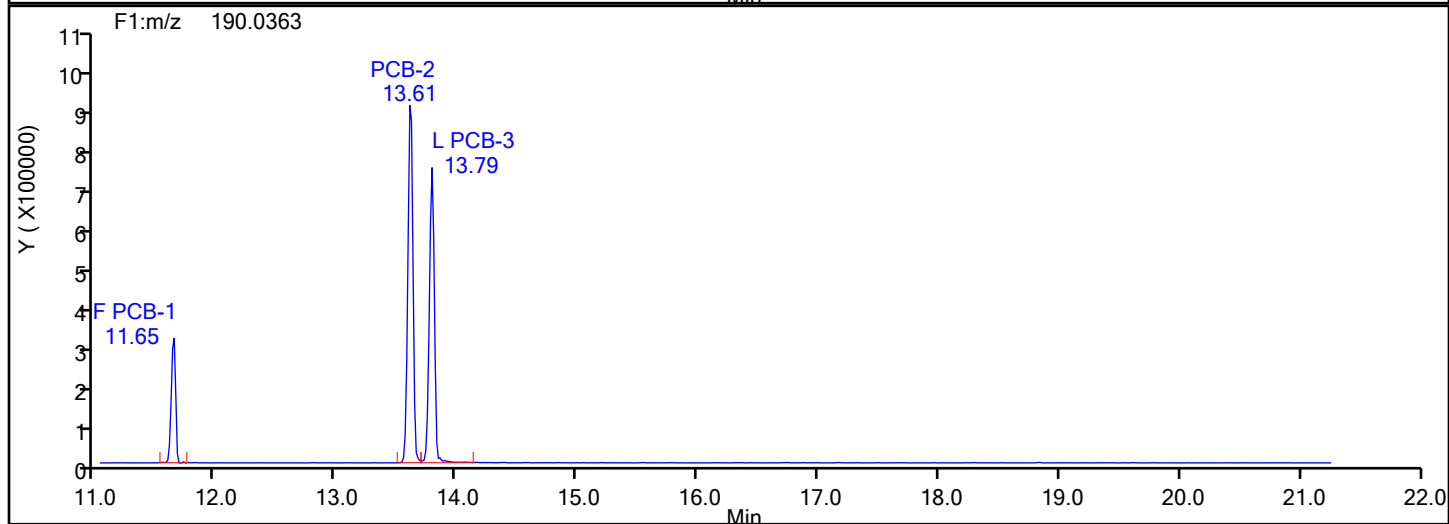
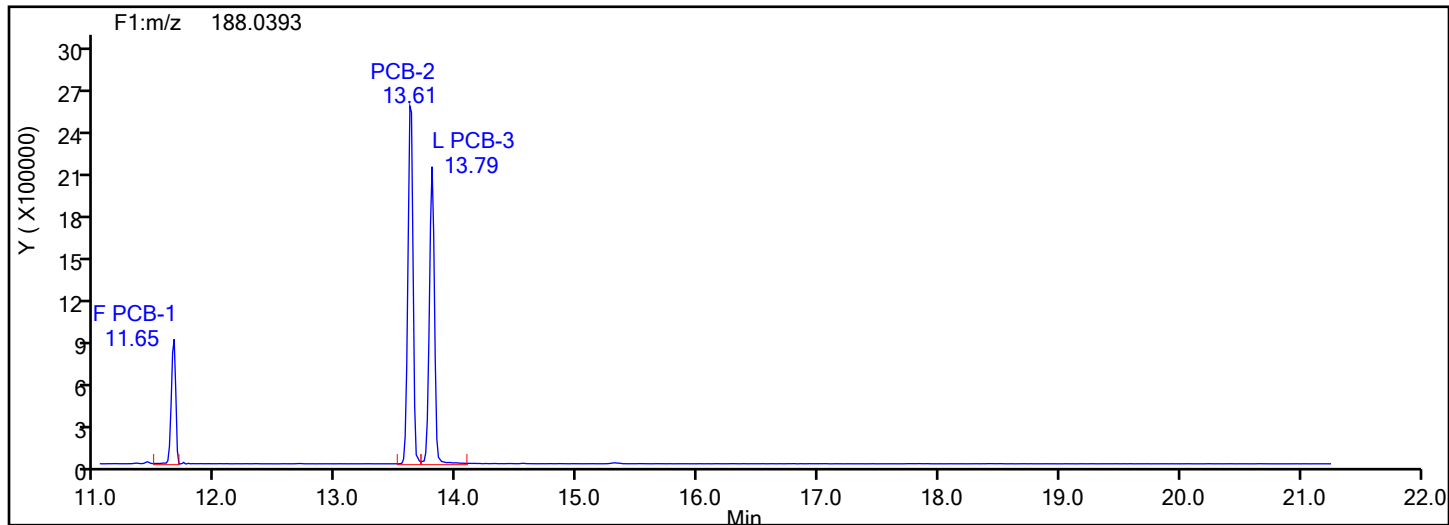


## MoPCB F1 Standards

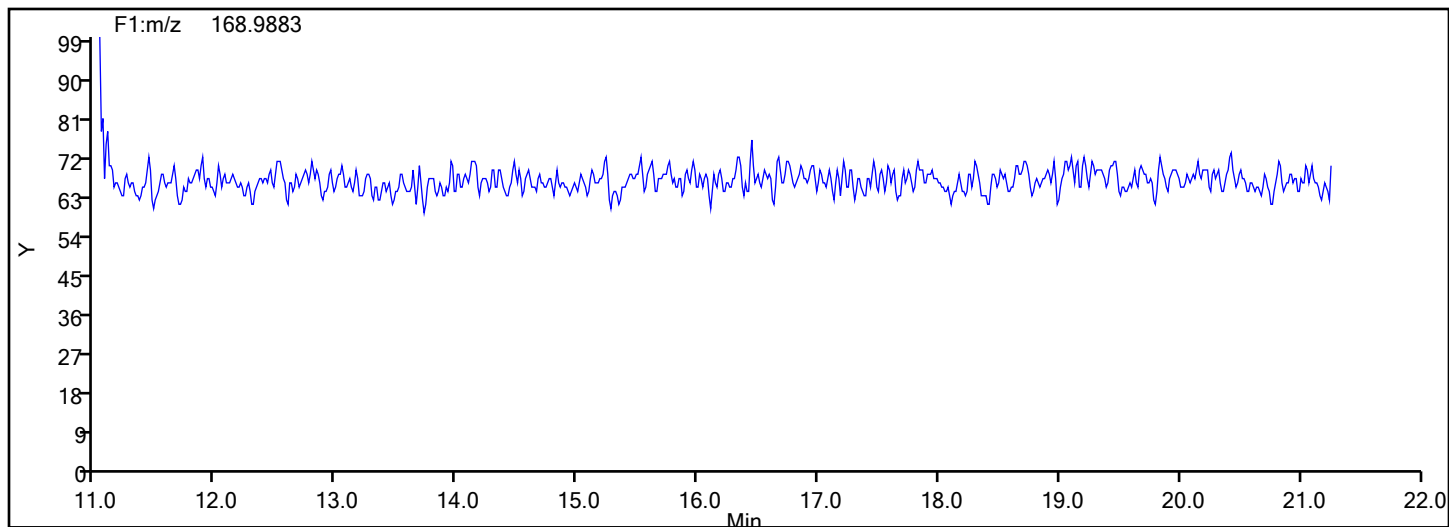


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-7-c5x.d  
Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

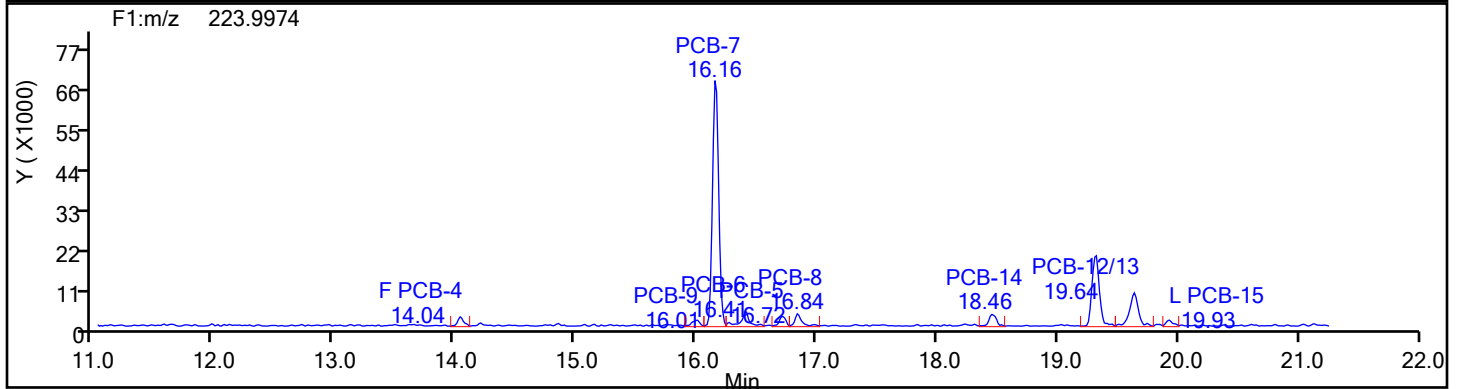
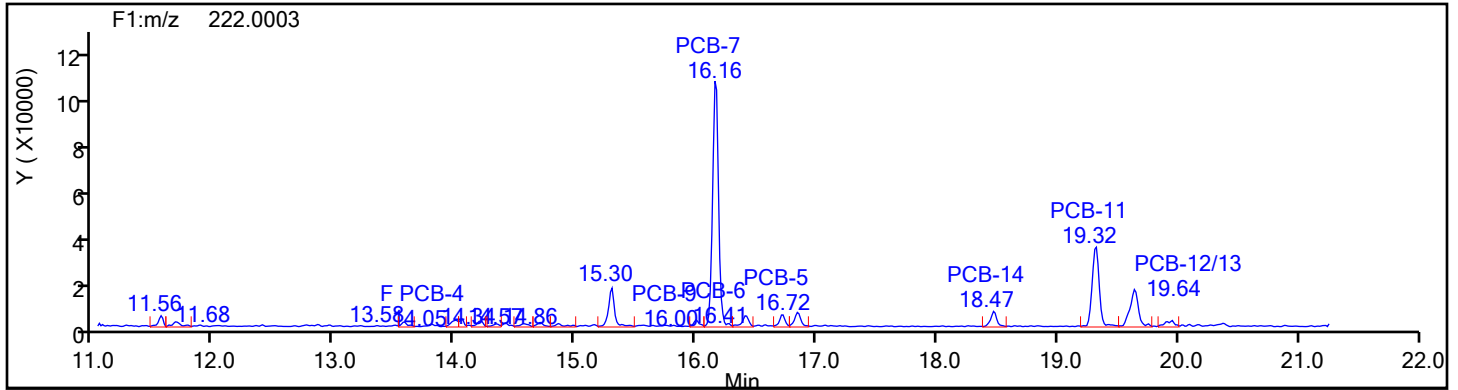


## MoPCB F1 Lock Mass

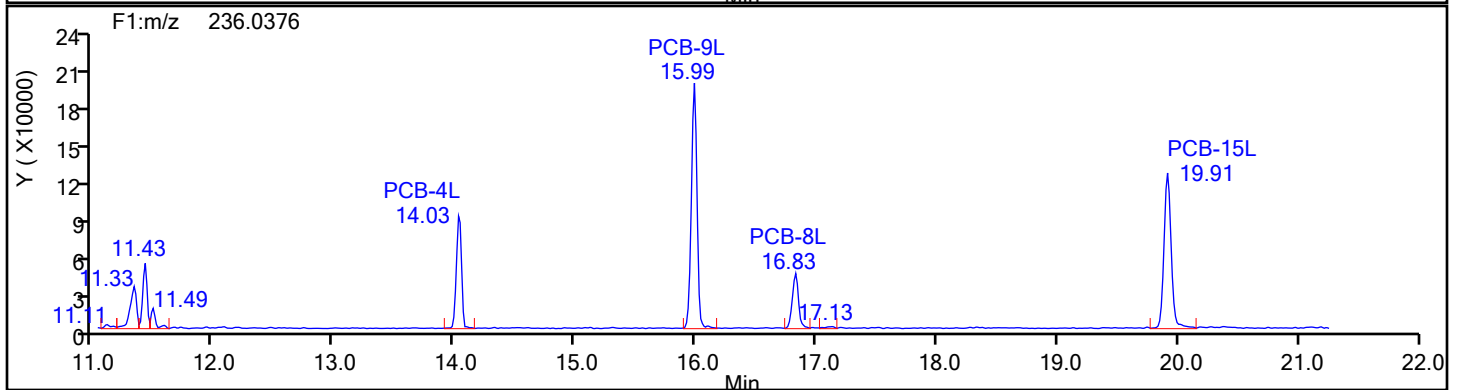
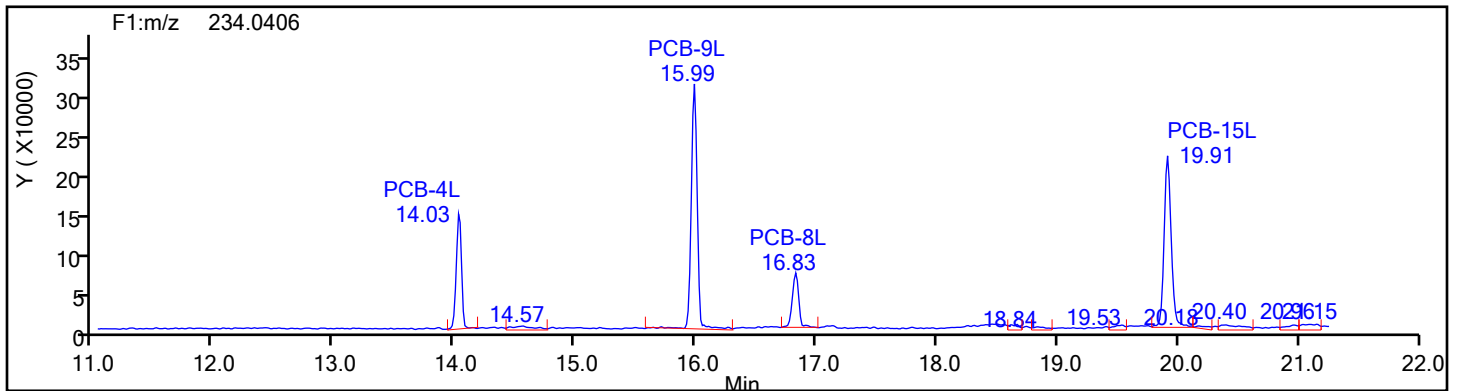


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



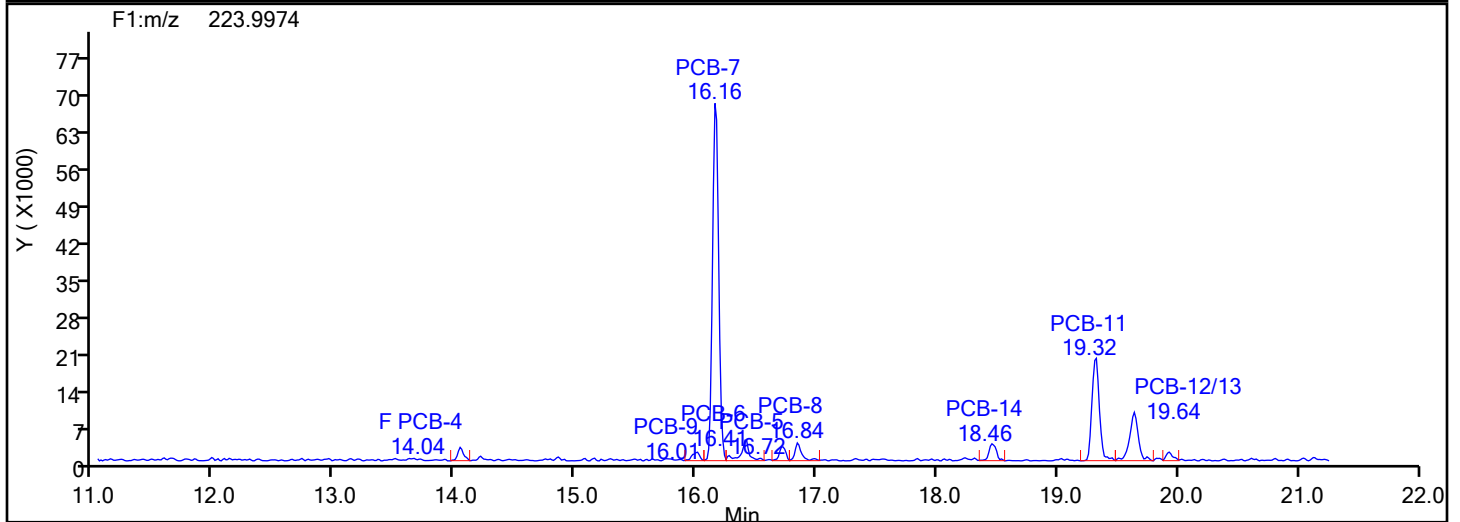
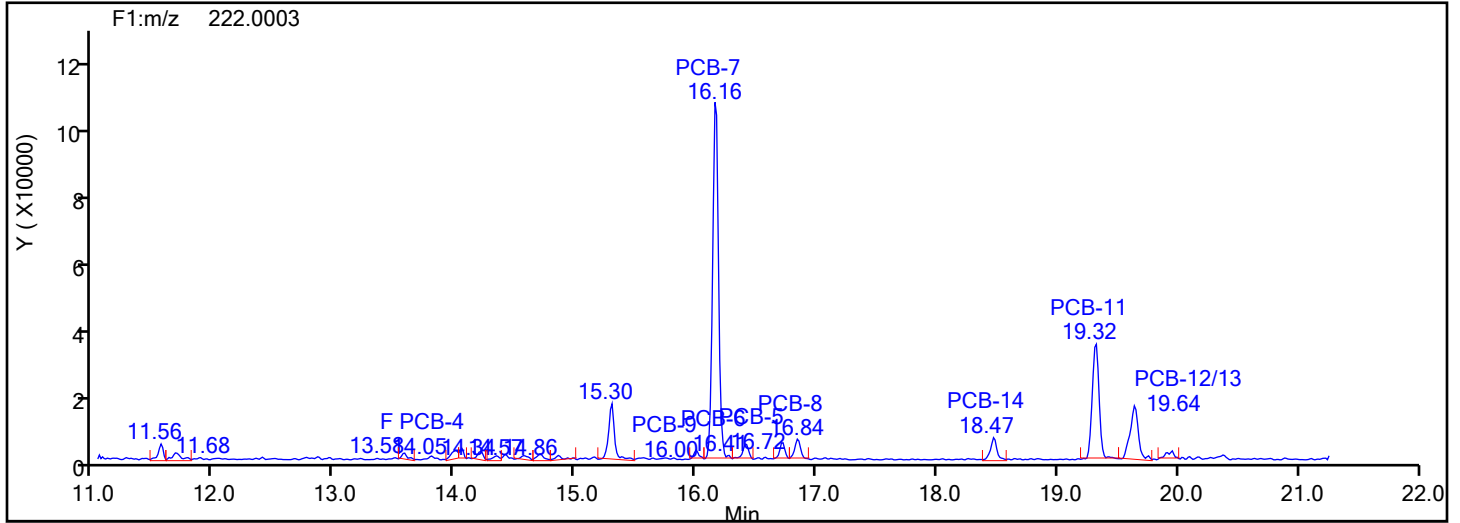
## DiPCB F1 Standards



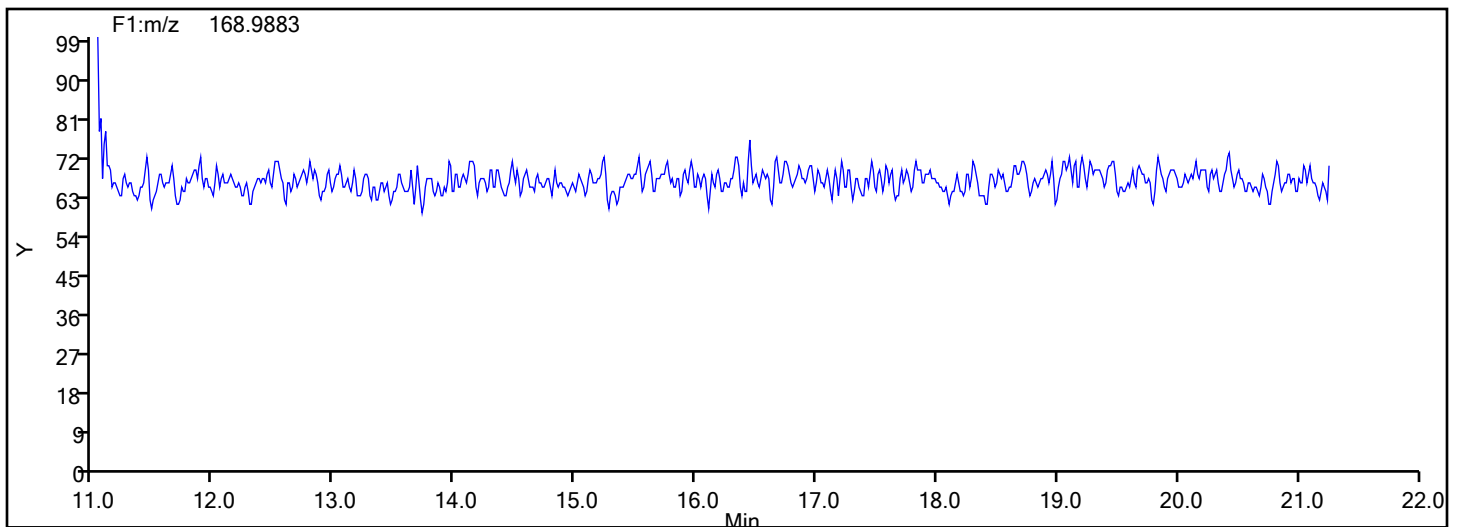


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



## DiPCB F1 Lock Mass



## Eurofins Knoxville

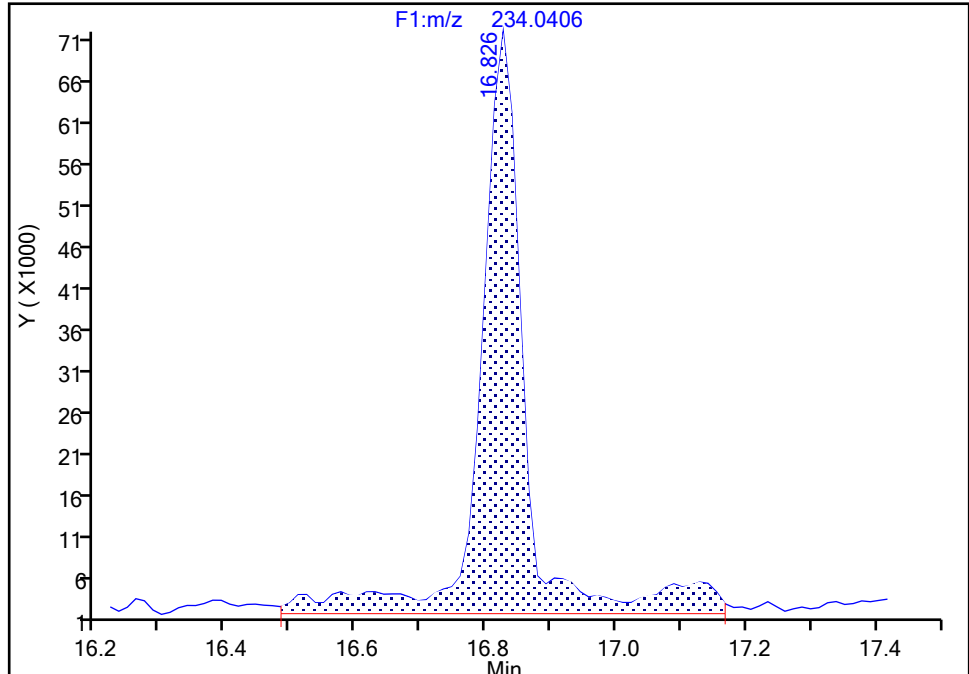
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Injection Date: 28-Jun-2024 17:53:00 Instrument ID: D2D  
Lims ID: 140-36940-A-7-C Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1\IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

PCB-8L, CAS: STL01600

Signal: 1

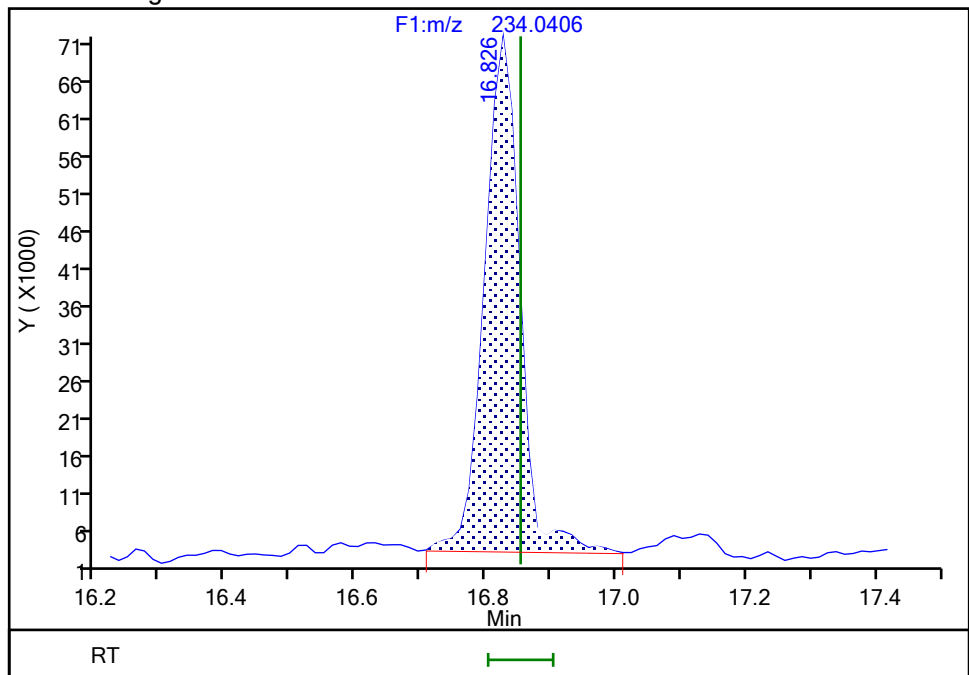
RT: 16.83  
Area: 344599  
Amount: 7.634708  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.83  
Area: 264720  
Amount: 6.571191  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 11:37:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

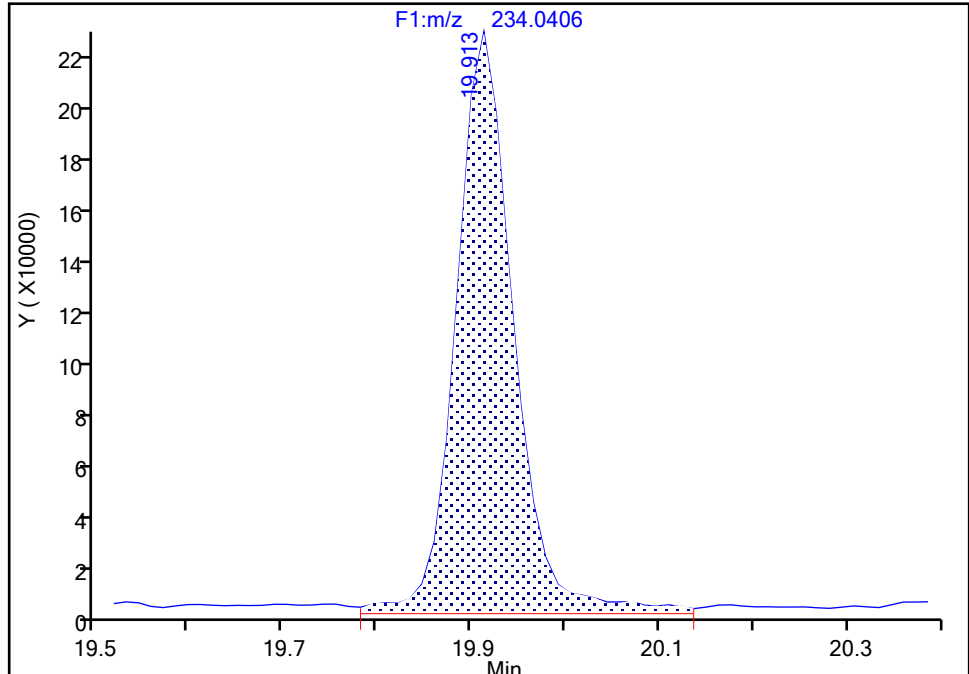
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Lims ID: 140-36940-A-7-C Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

PCB-15L, CAS: 208263-67-6

Signal: 1

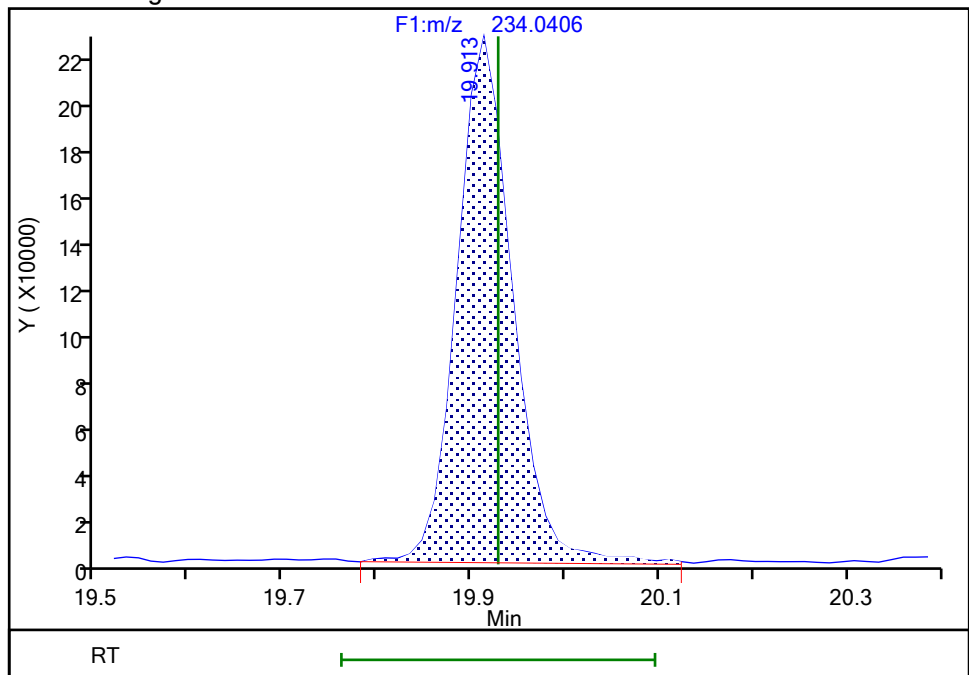
RT: 19.91  
Area: 941594  
Amount: 15.810710  
Amount Units: pg/ul

## Processing Integration Results



RT: 19.91  
Area: 891597  
Amount: 15.270700  
Amount Units: pg/ul

## Manual Integration Results



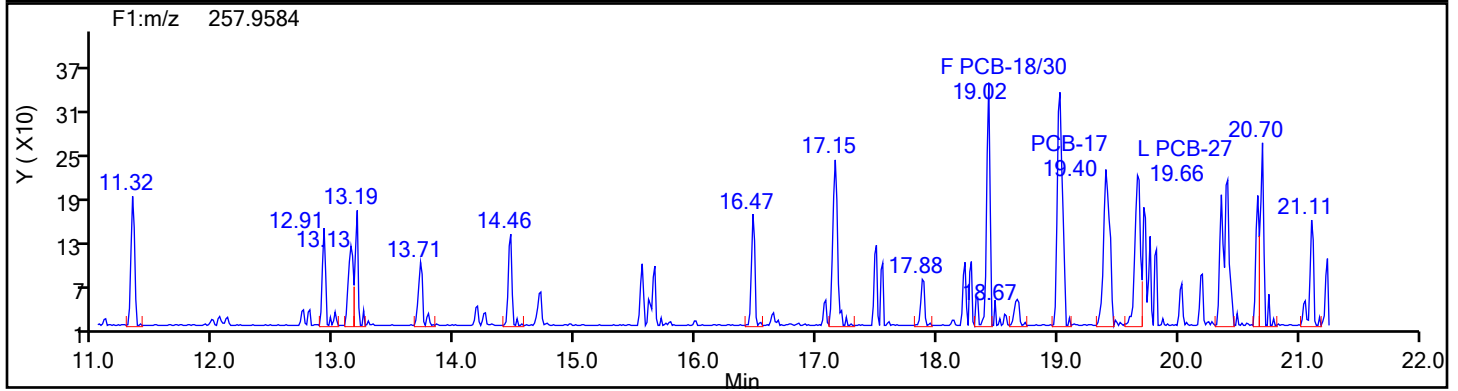
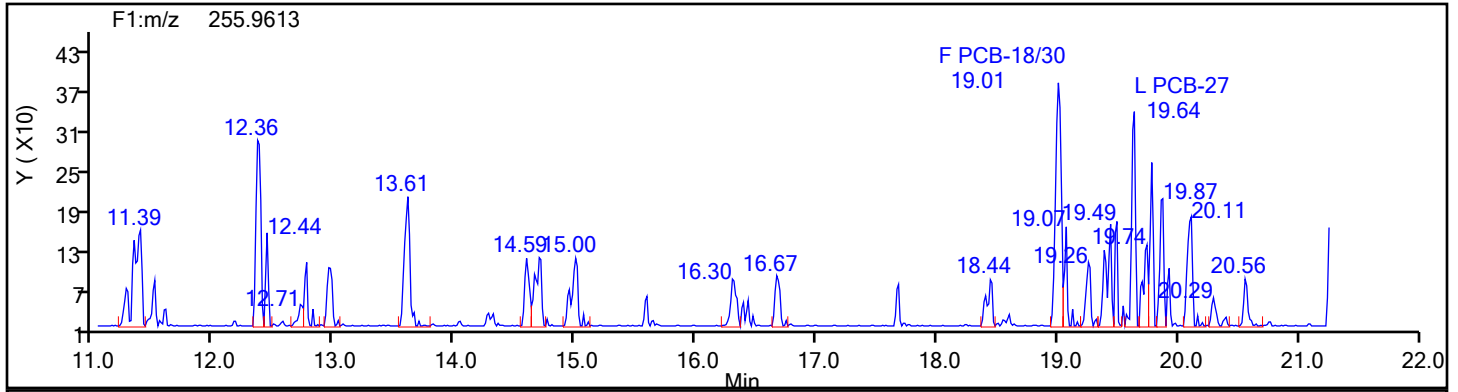
Reviewer: P0IK, 29-Jun-2024 11:37:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

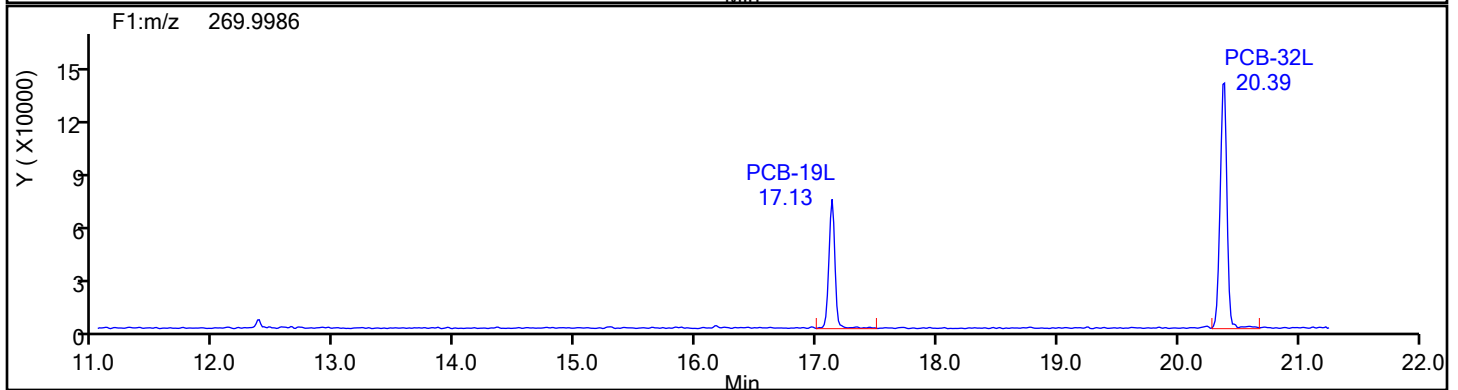
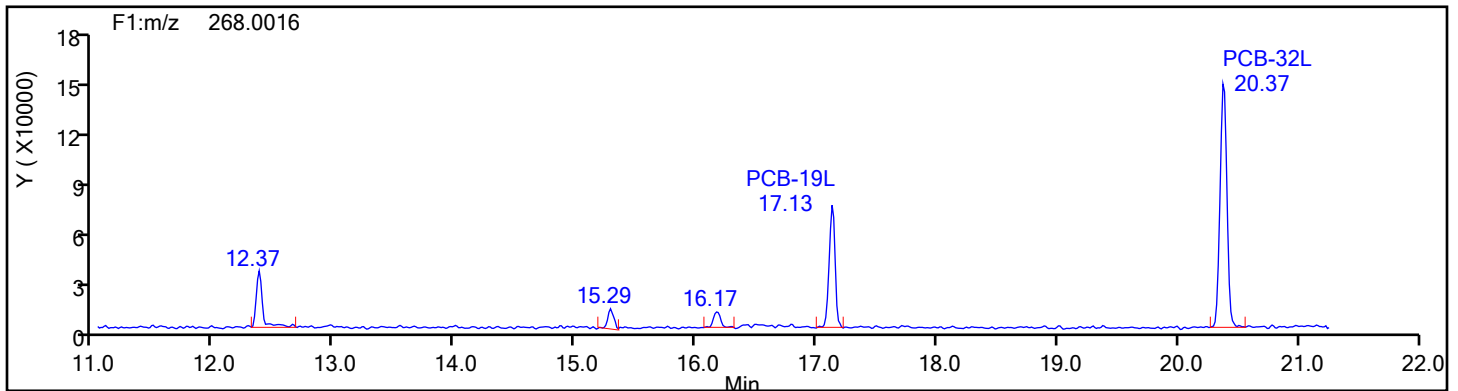
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1

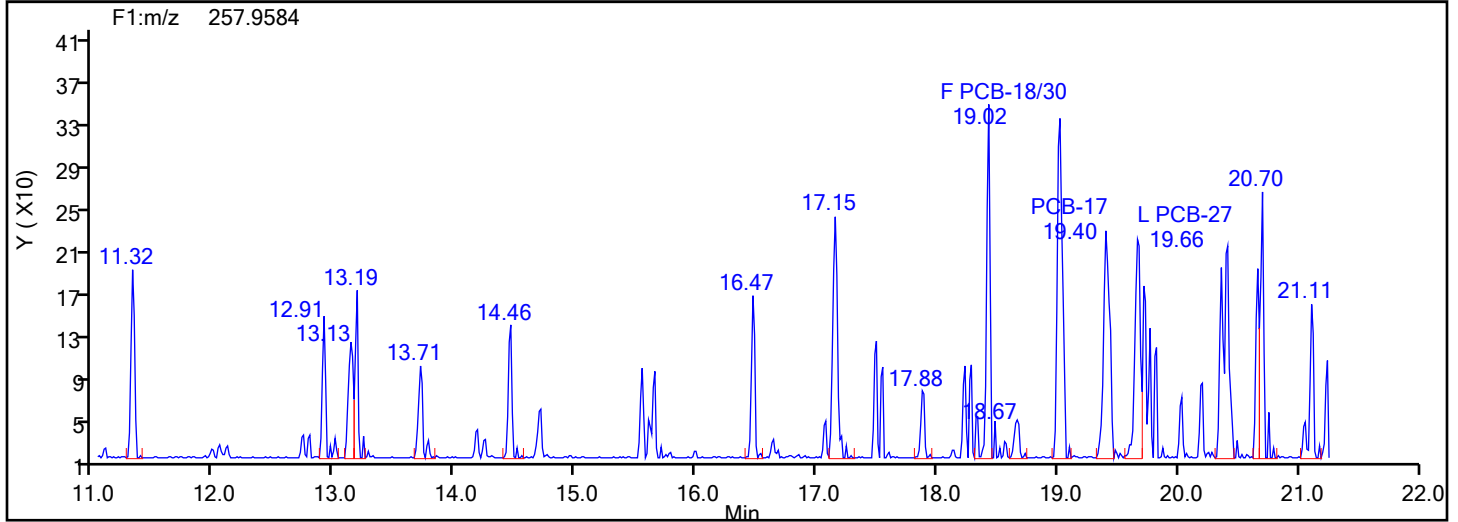
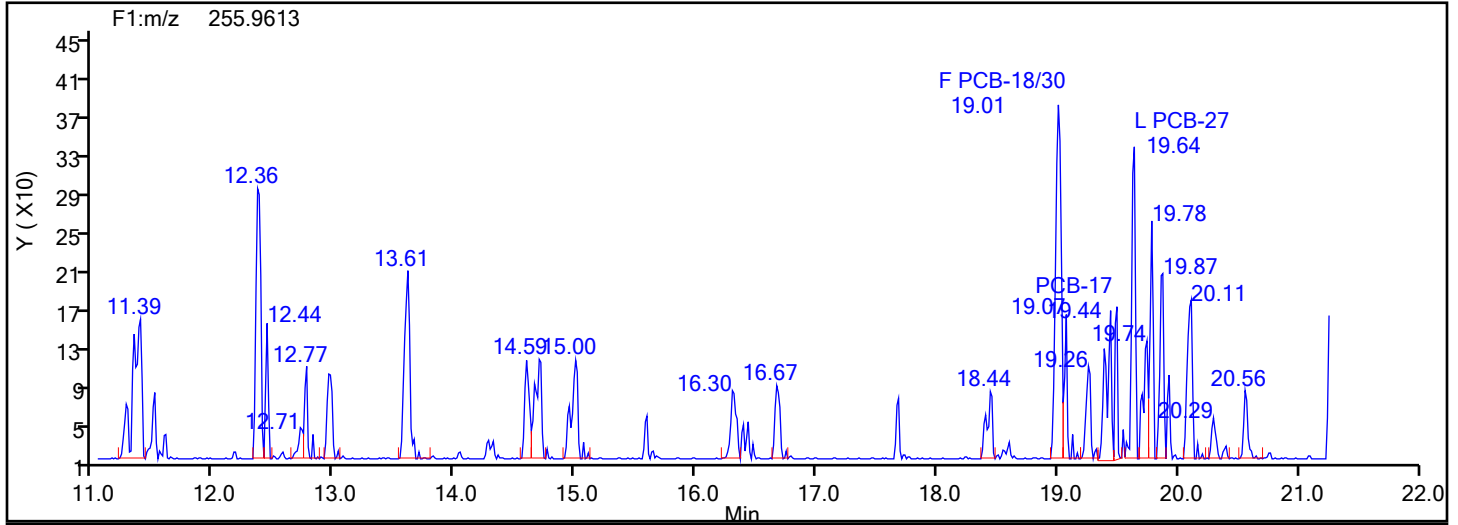


## TriPCB F1 Standards

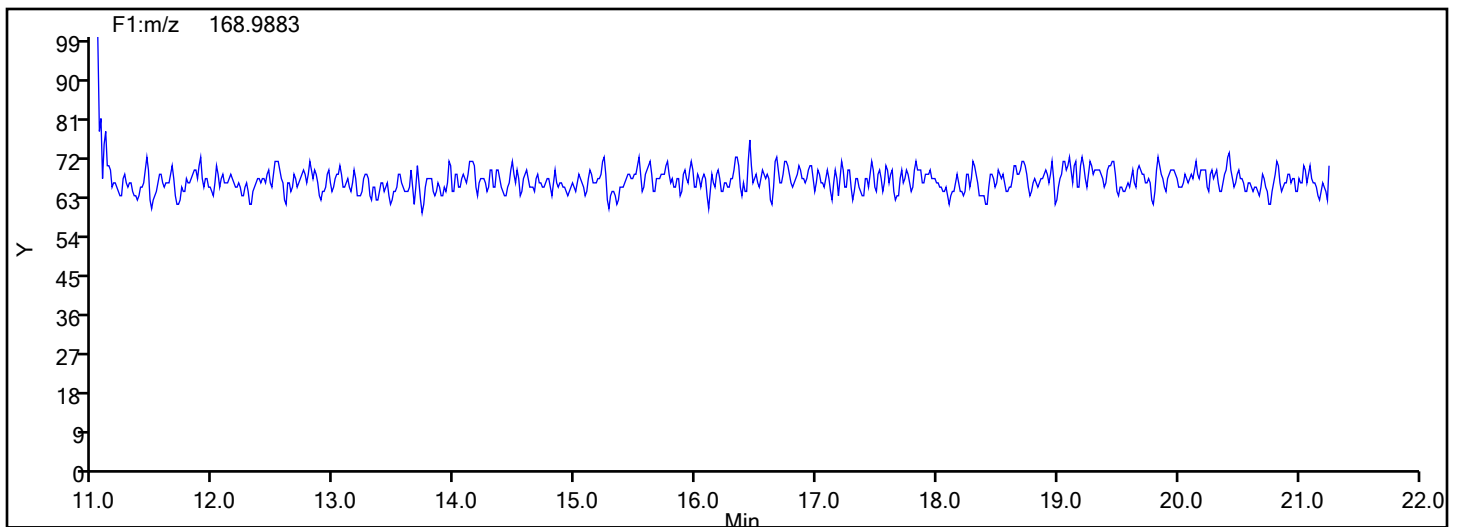


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-7-c5x.d  
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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Lock Mass



## Eurofins Knoxville

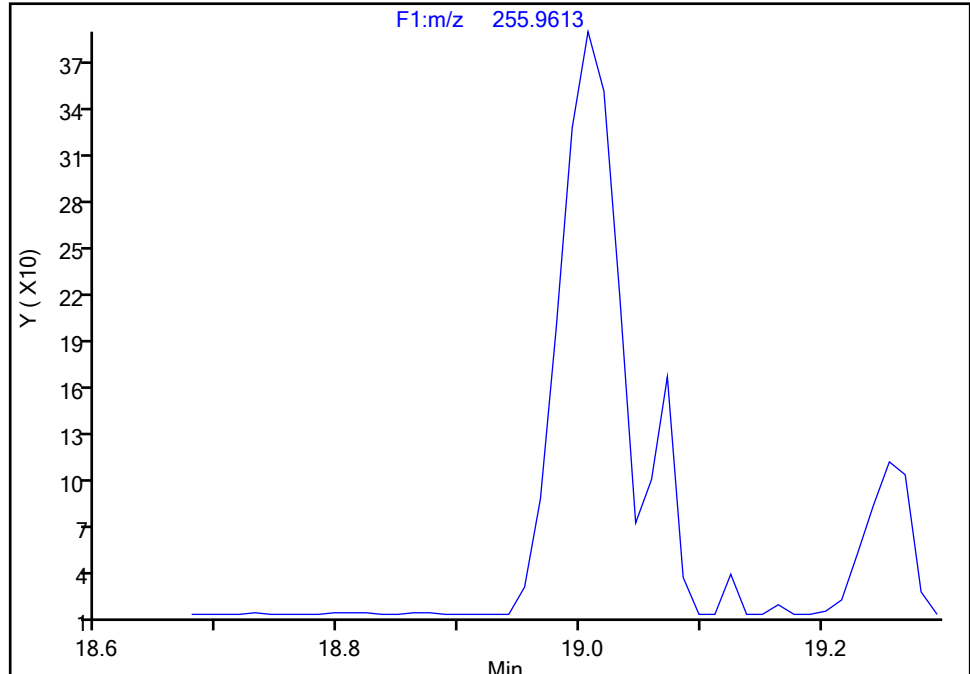
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Injection Date: 28-Jun-2024 17:53:00 Instrument ID: D2D  
Lims ID: 140-36940-A-7-C Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1\IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

**PCB-18/30, CAS: STL01798**

Signal: 1

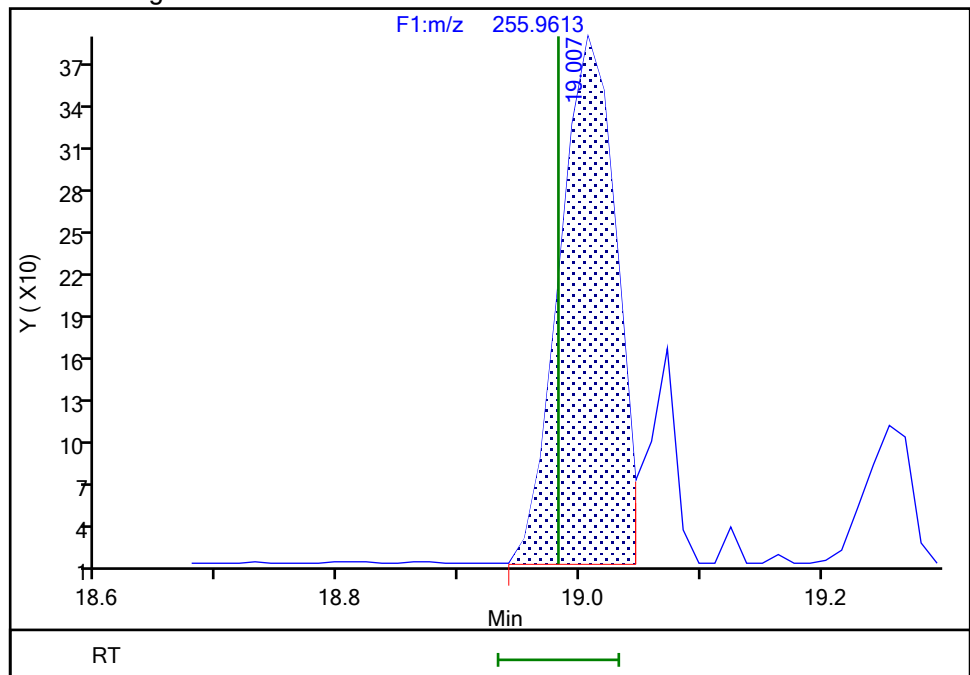
Not Detected  
Expected RT: 18.98

## Processing Integration Results



RT: 19.01  
Area: 1172  
Amount: 0.047362  
Amount Units: pg/ul

## Manual Integration Results



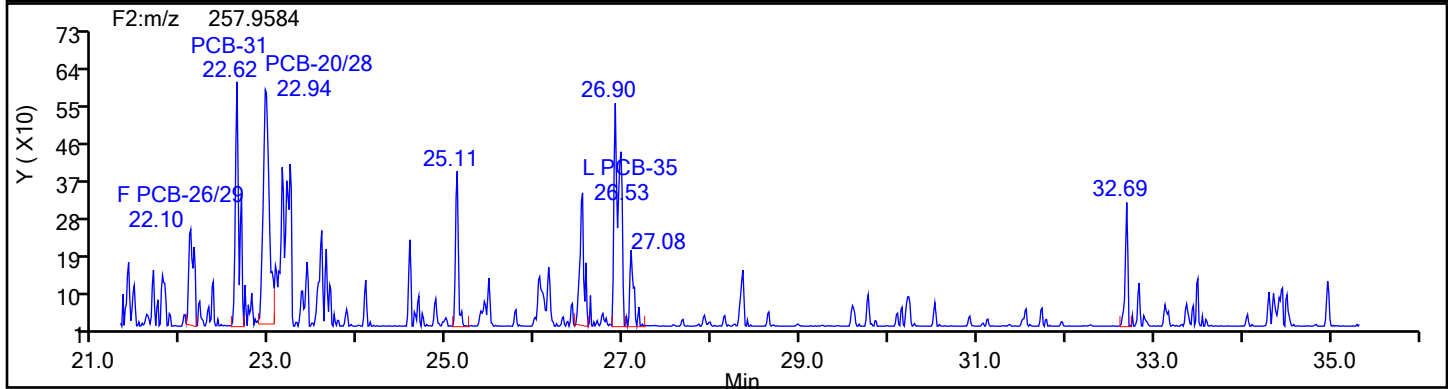
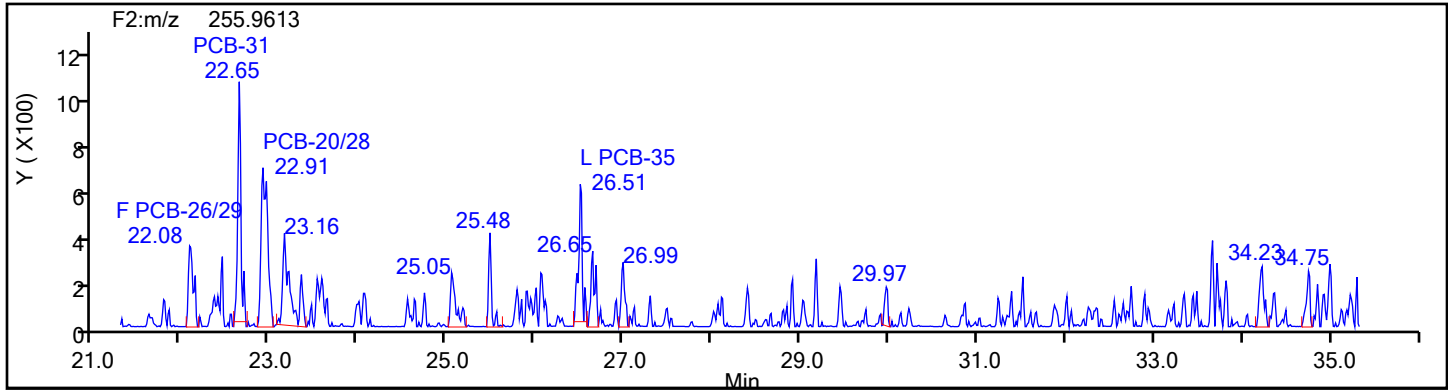
Reviewer: P0IK, 29-Jun-2024 11:38:48 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

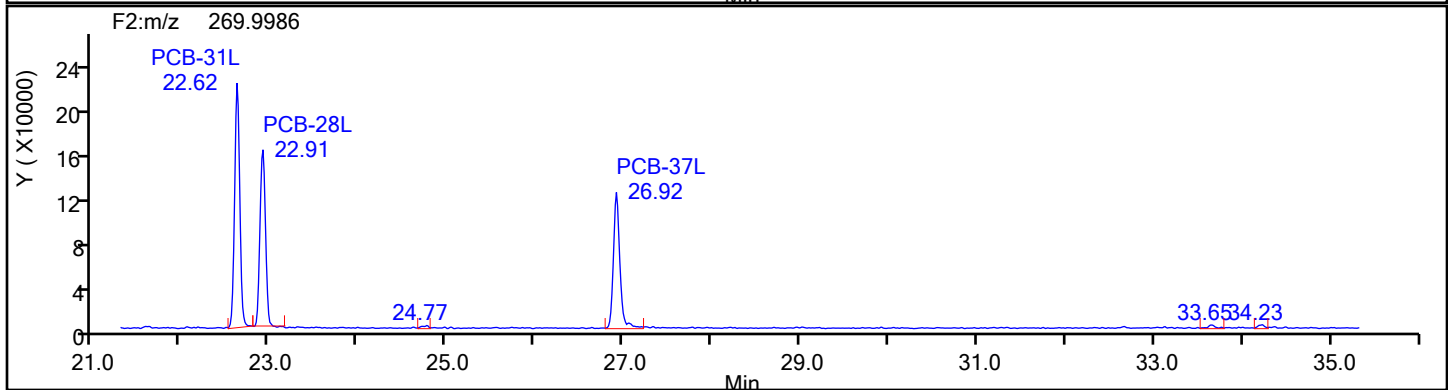
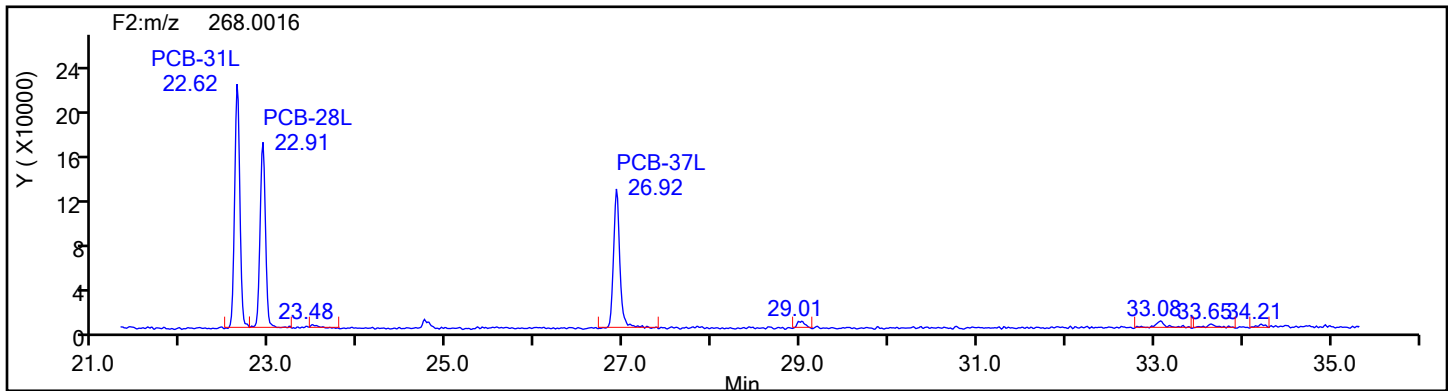
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-7-c5x.d  
Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

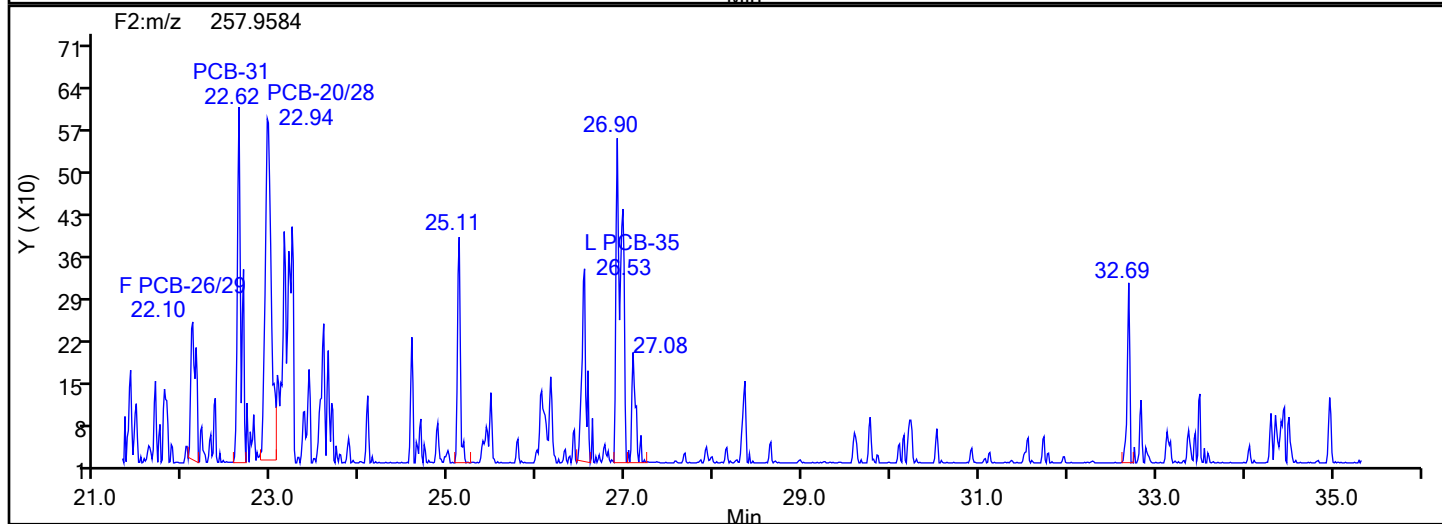
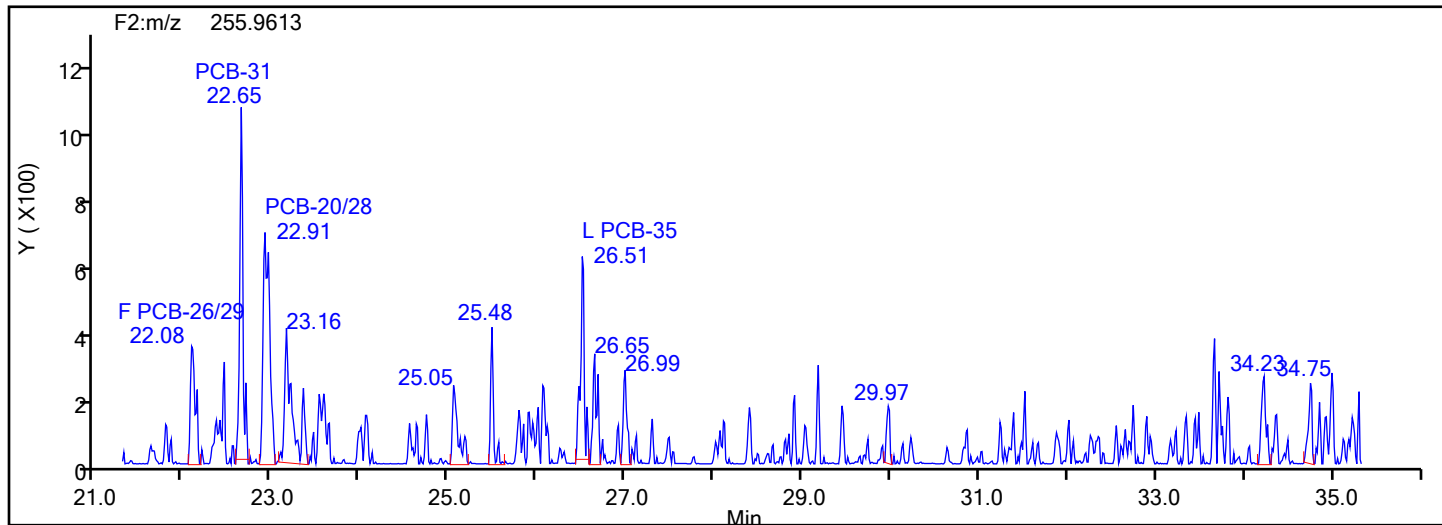


## TriPCB F2 Standards

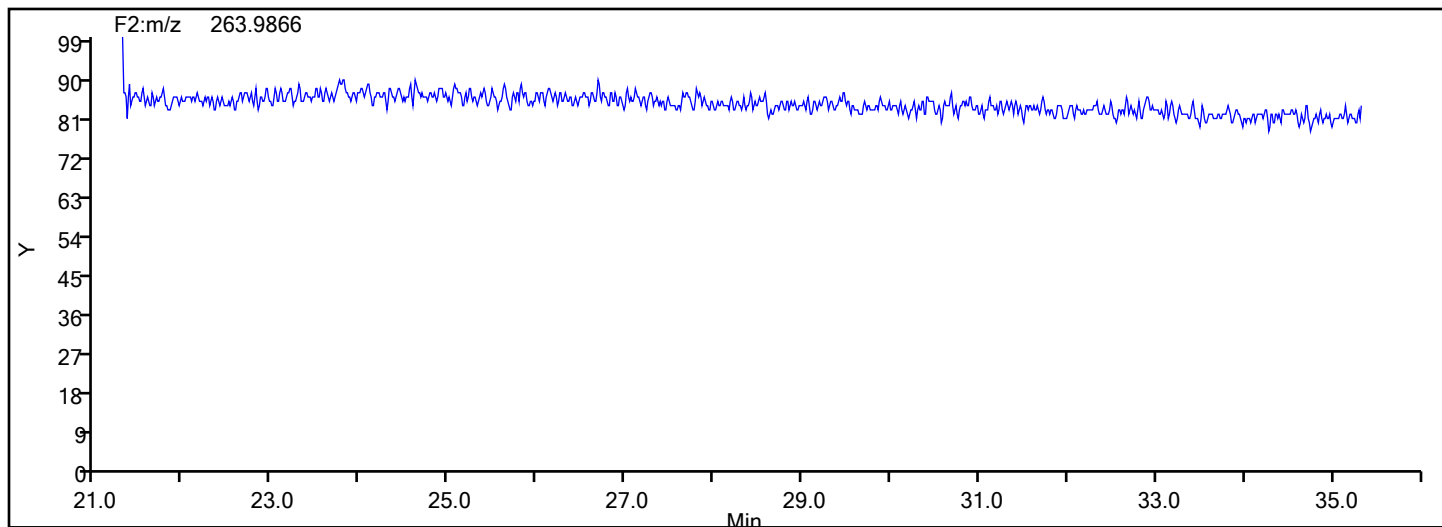


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-7-c5x.d  
Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2



## TriPCB F2 Lock Mass





## Eurofins Knoxville

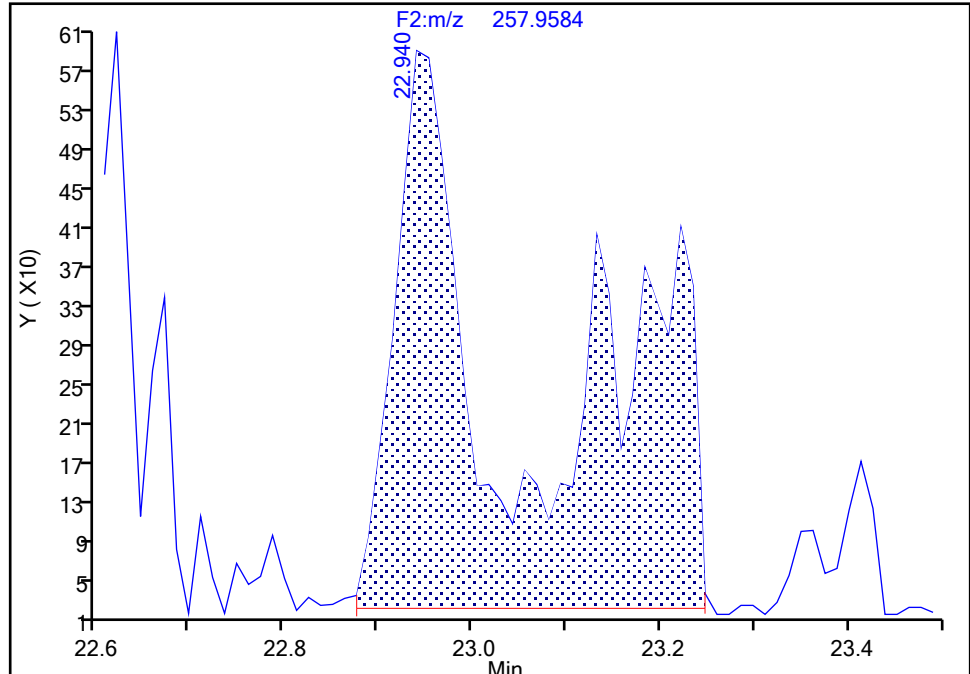
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Injection Date: 28-Jun-2024 17:53:00 Instrument ID: D2D  
Lims ID: 140-36940-A-7-C Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

## PCB-20/28, CAS: STL01799

Signal: 2

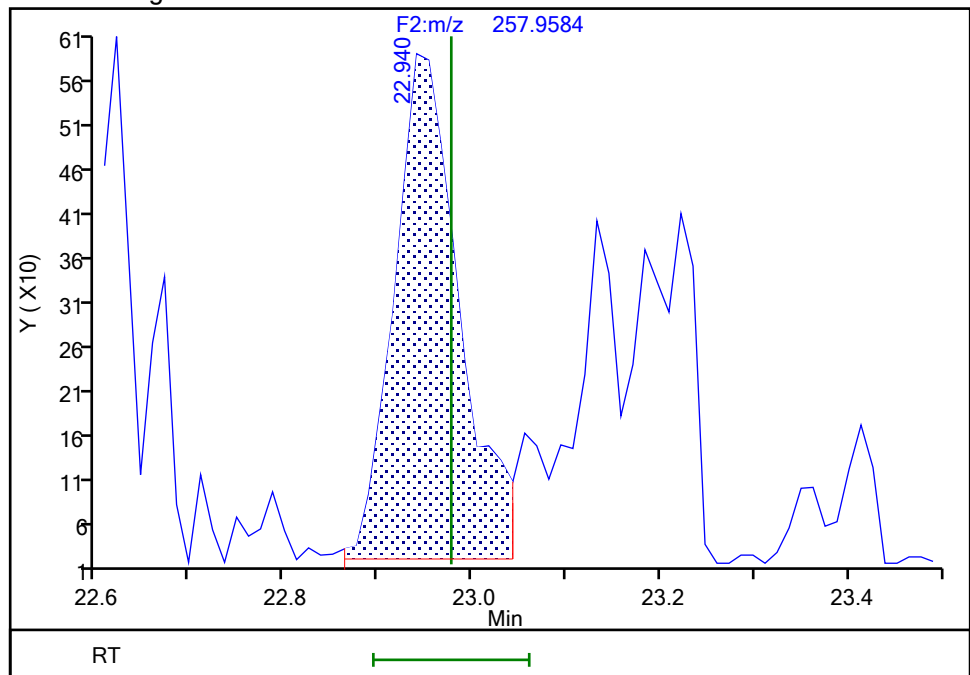
RT: 22.94  
Area: 5372  
Amount: 0.118128  
Amount Units: pg/ul

## Processing Integration Results



RT: 22.94  
Area: 2682  
Amount: 0.081779  
Amount Units: pg/ul

## Manual Integration Results



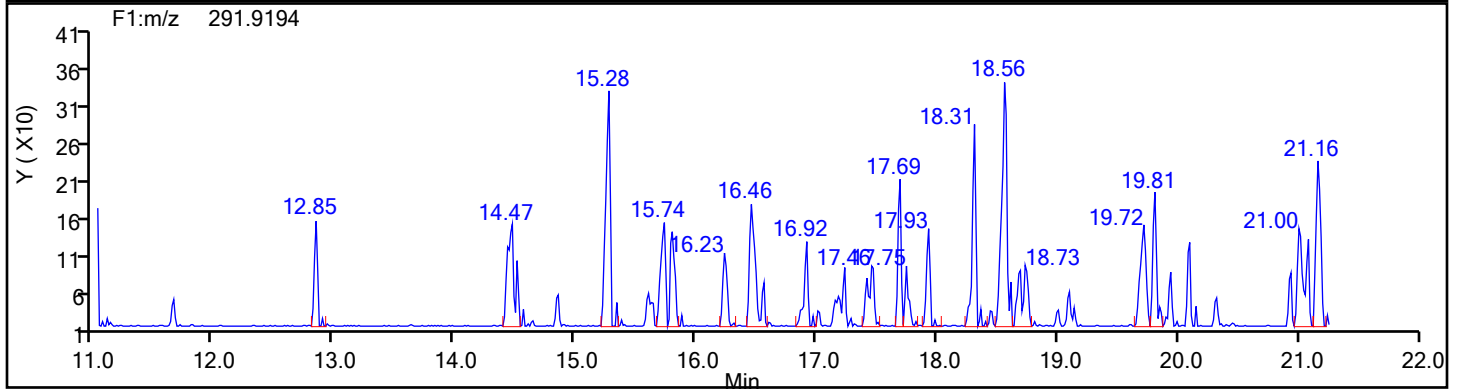
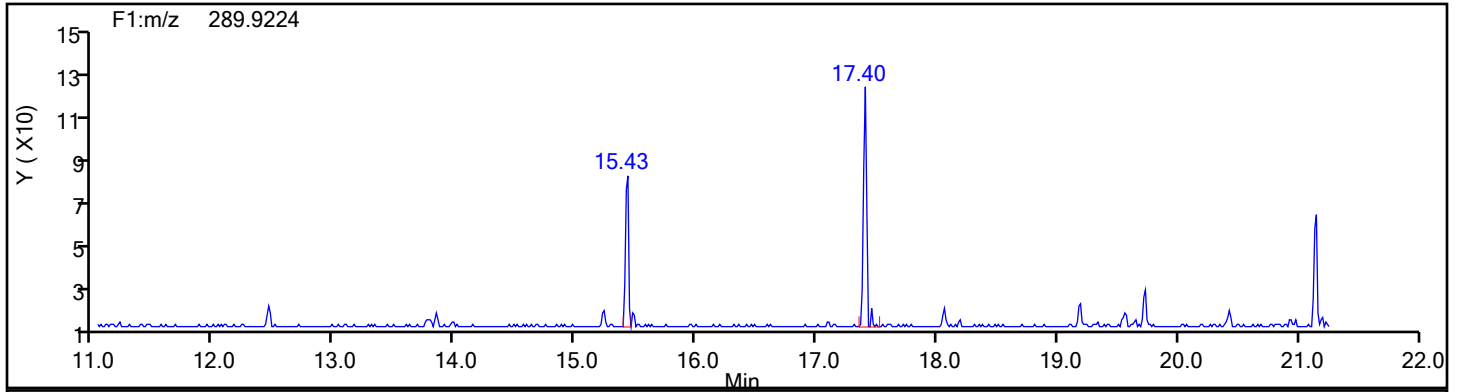
Reviewer: P0IK, 29-Jun-2024 11:39:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

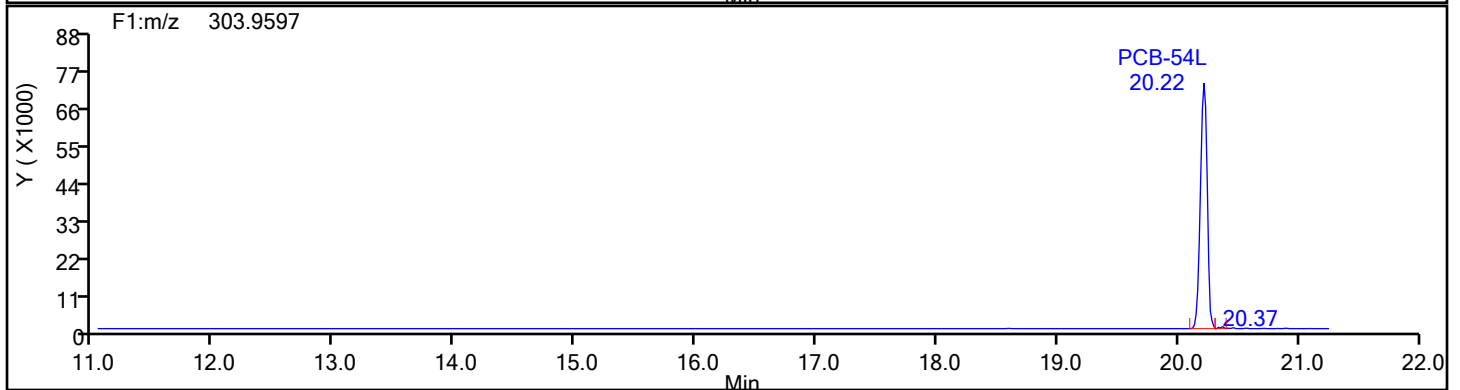
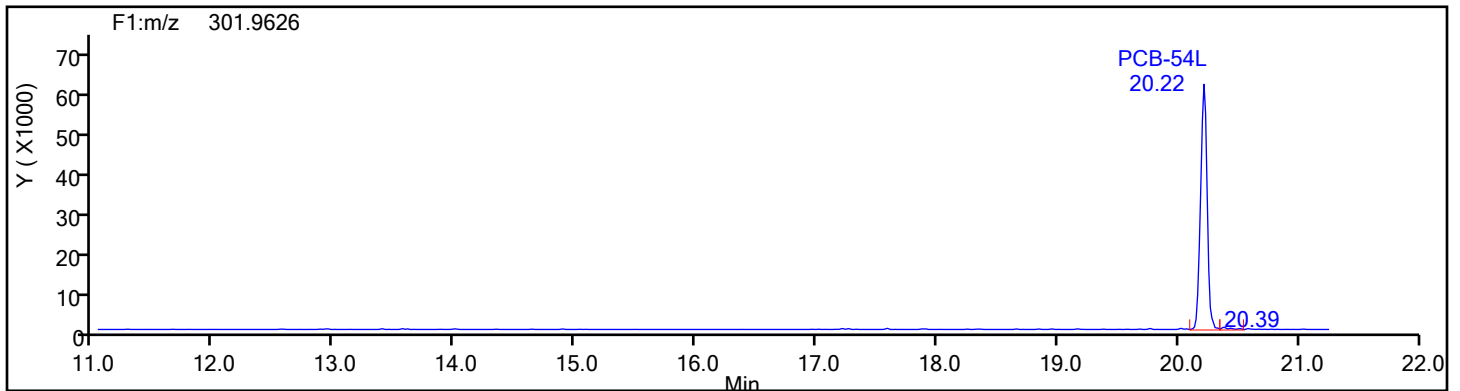
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

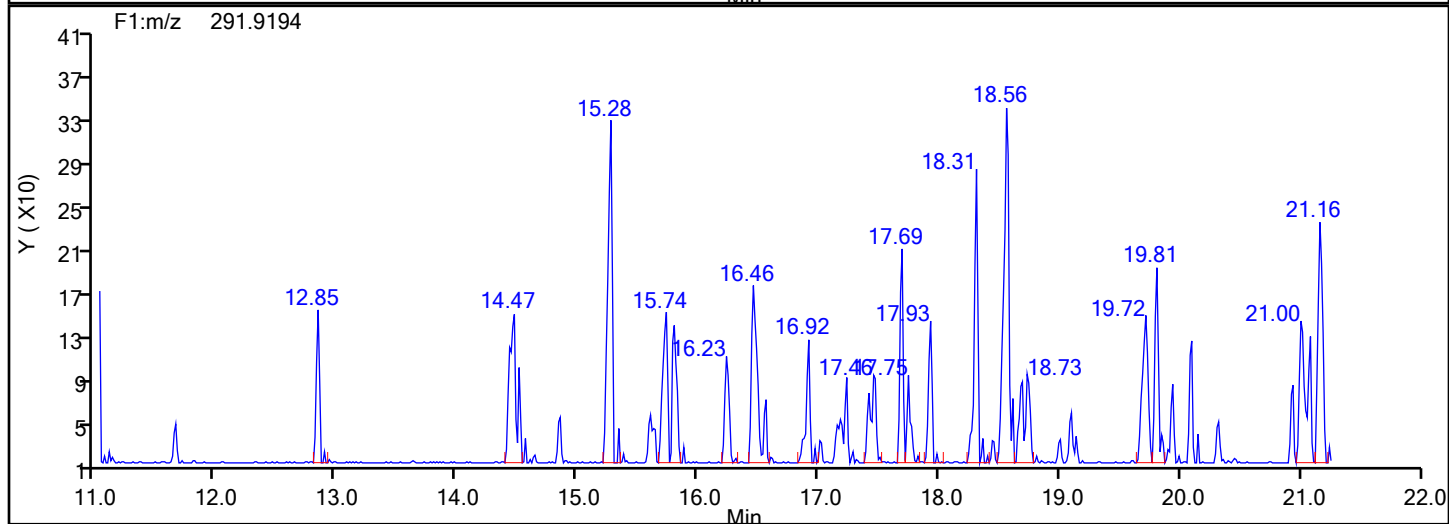
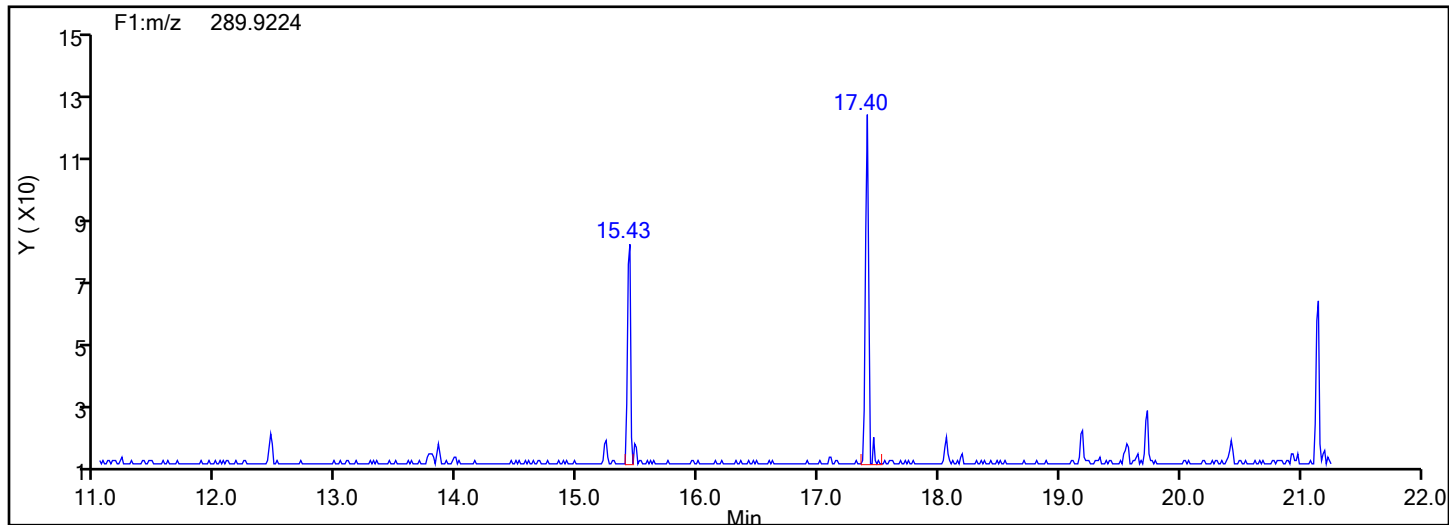


## TePCB F1 Standards

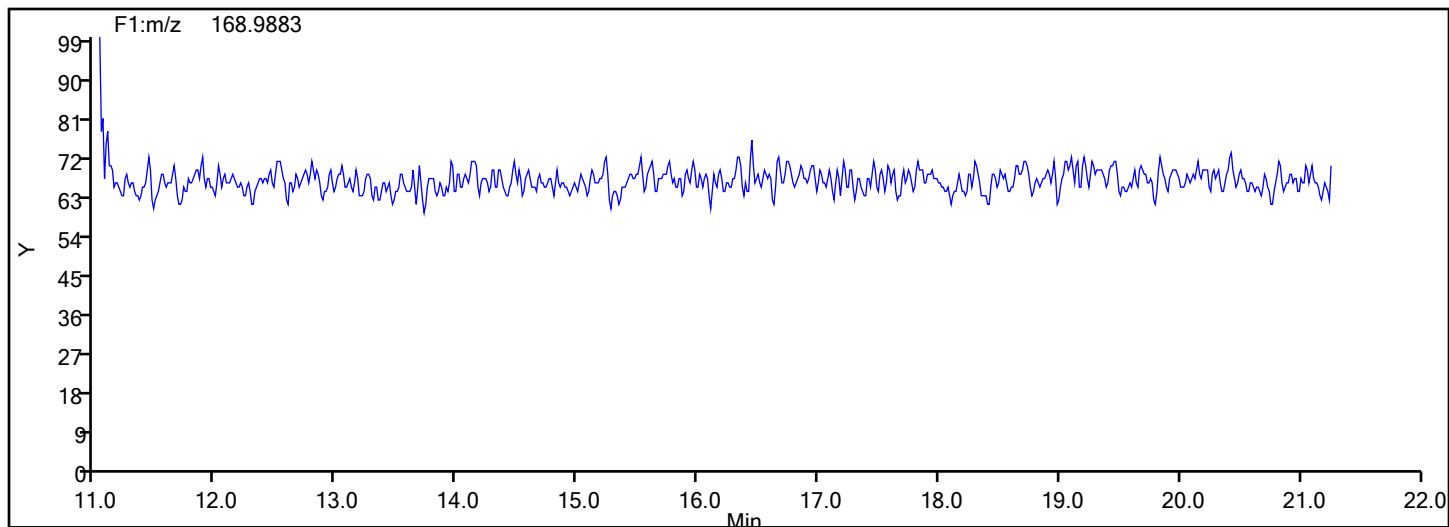


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

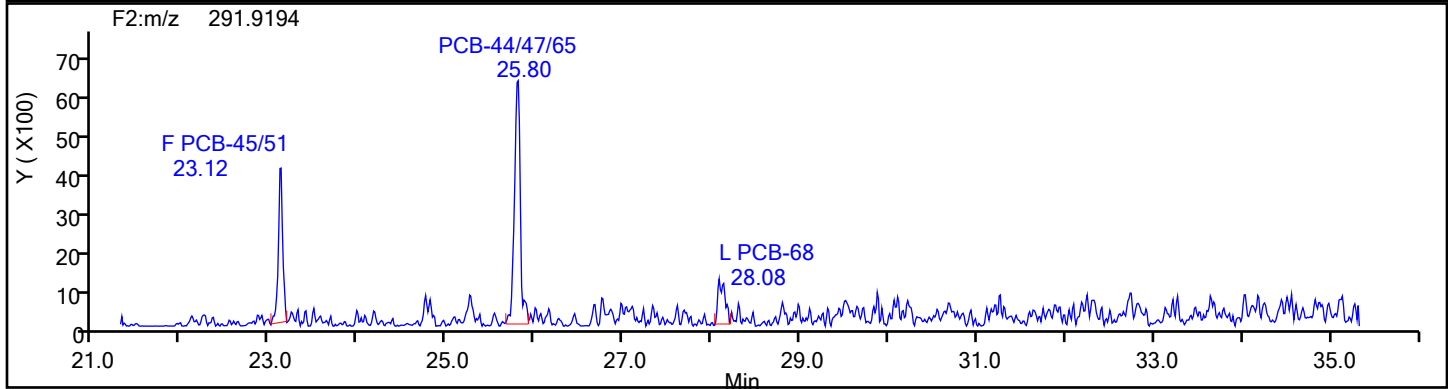
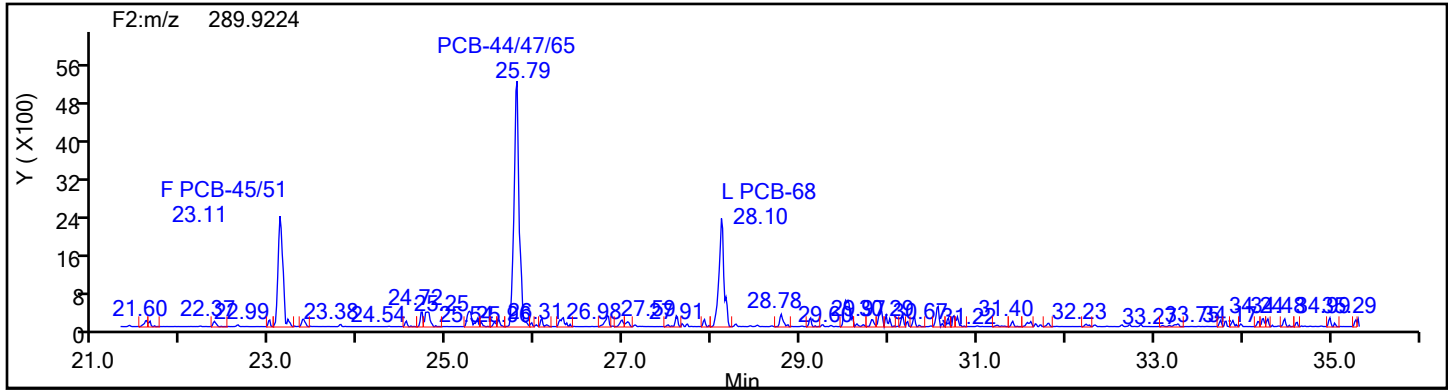


## TePCB F1 Lock Mass

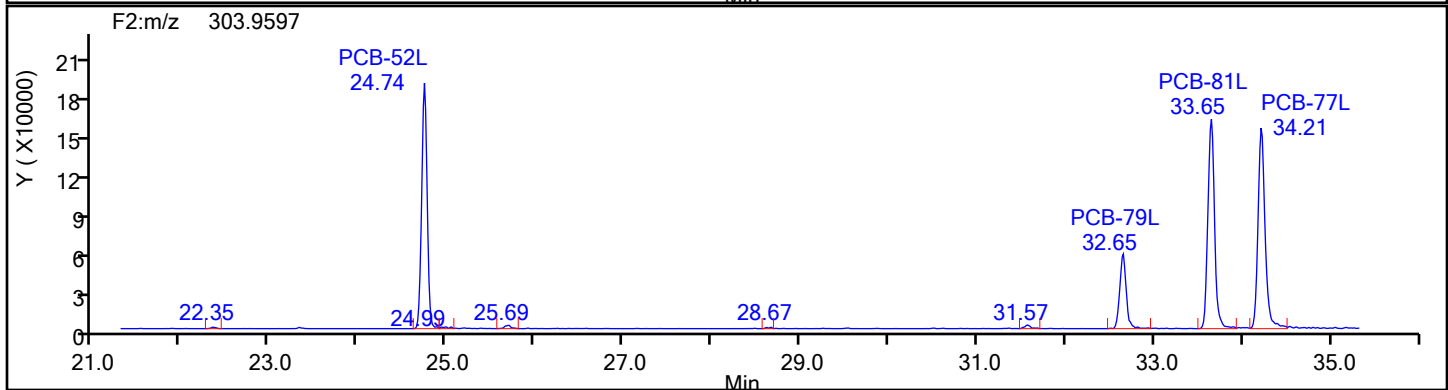
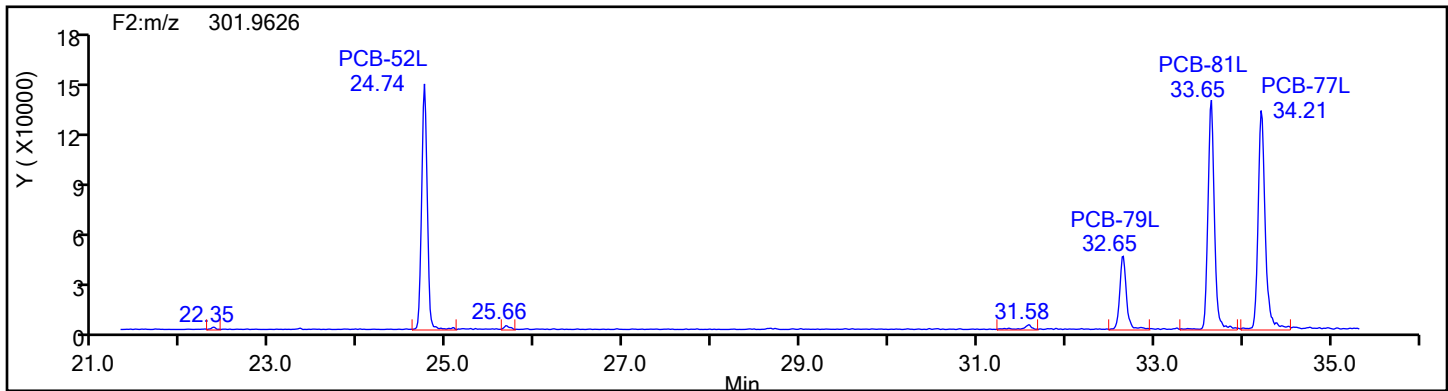


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

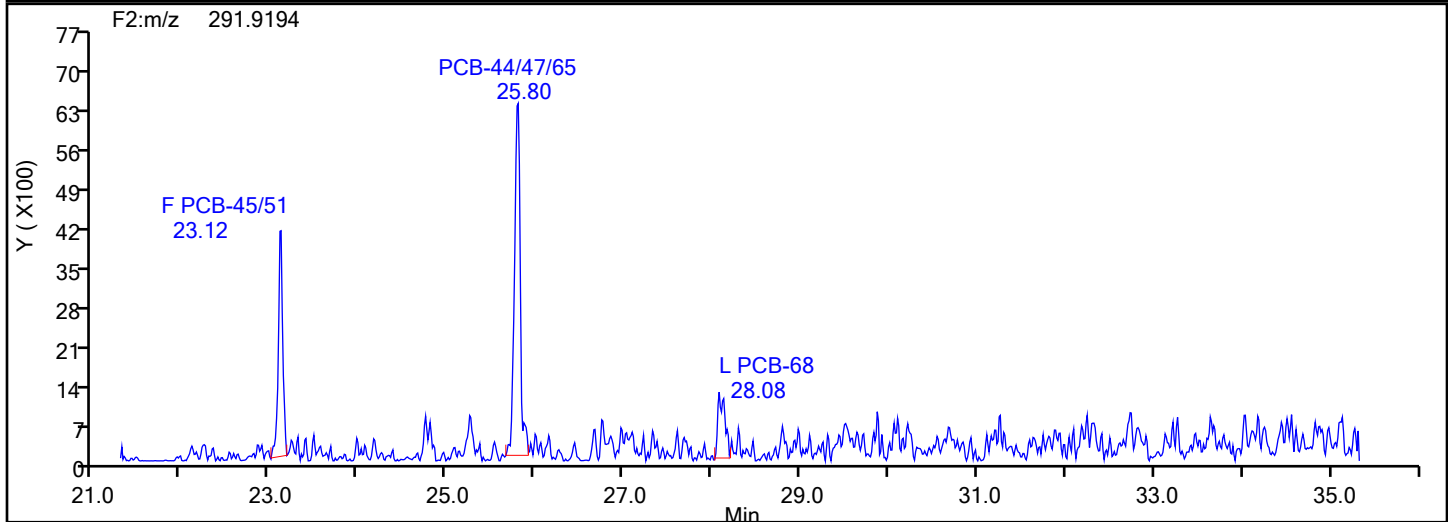
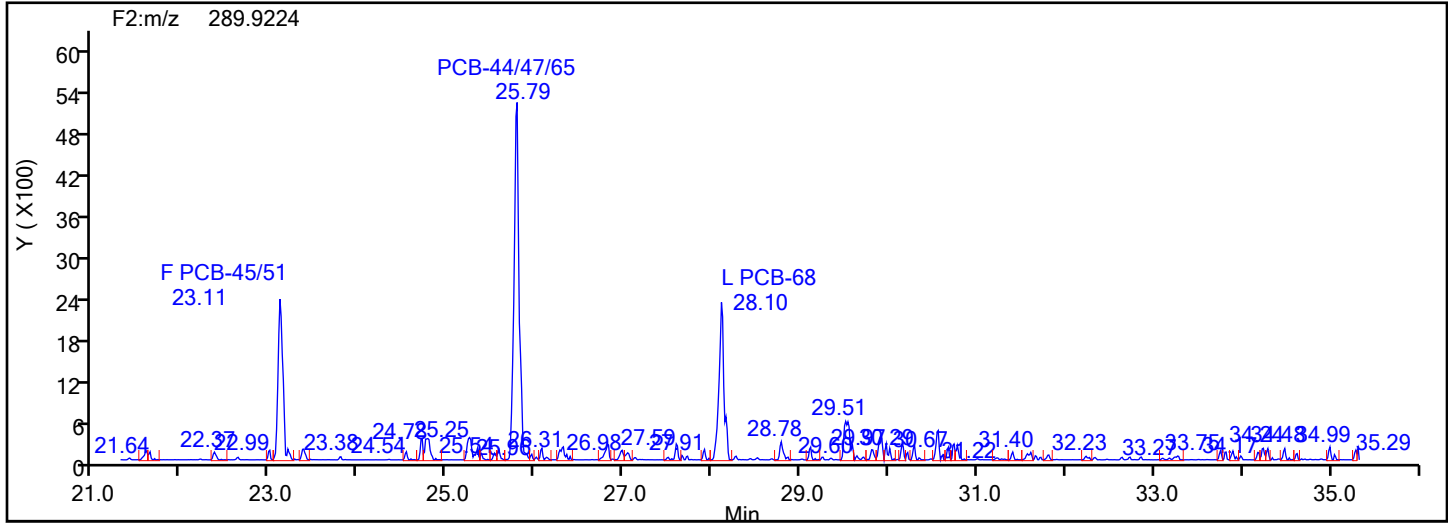


## TePCB F2 Standards

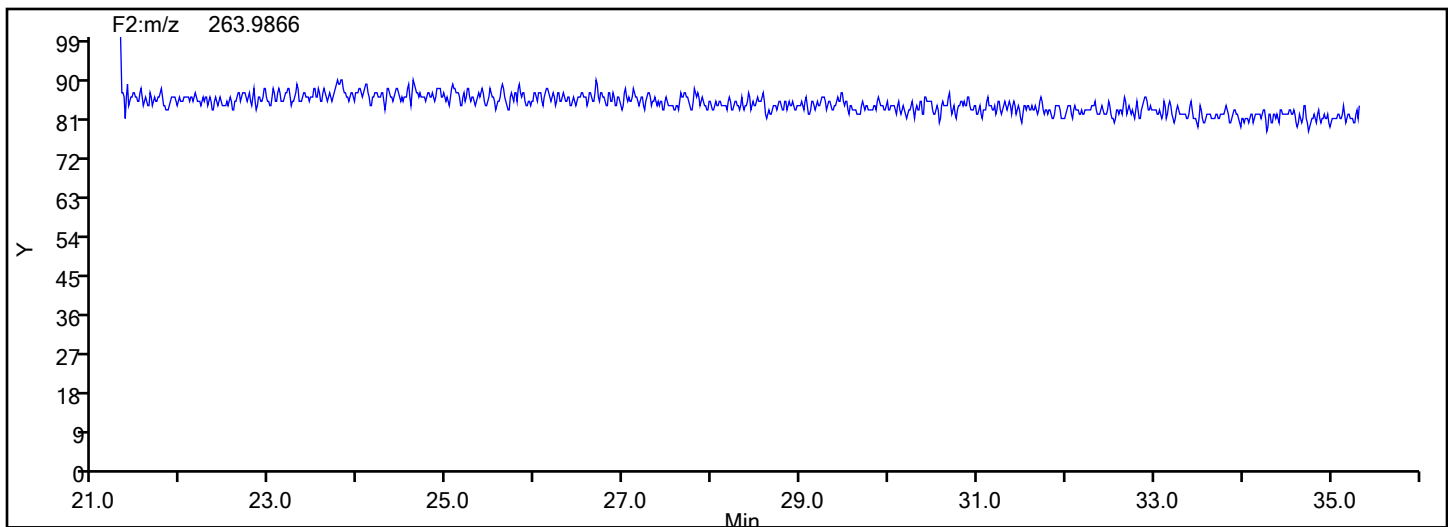


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

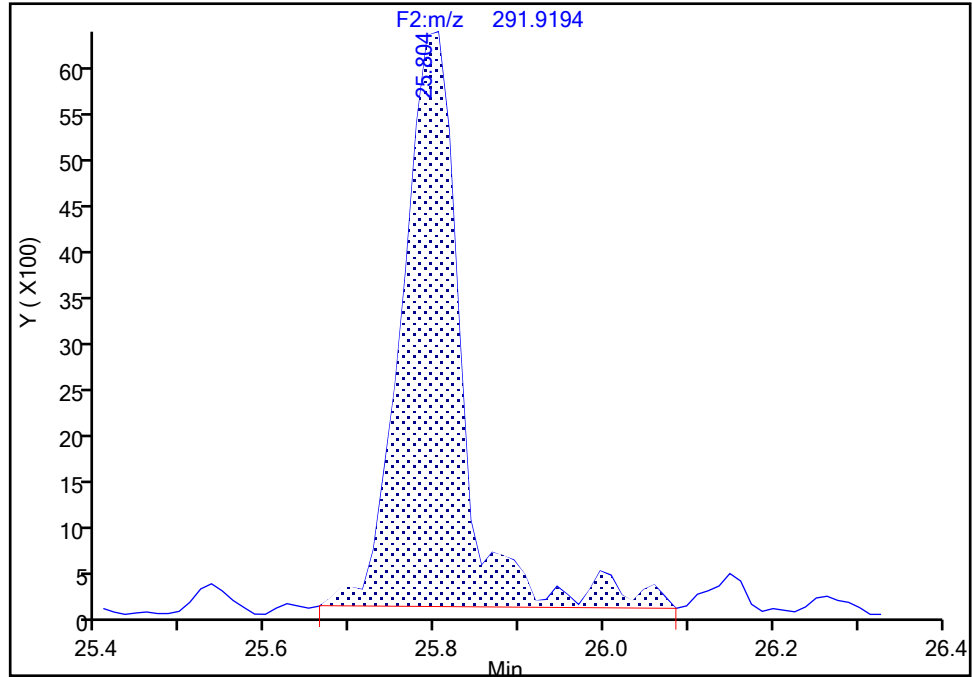
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Injection Date: 28-Jun-2024 17:53:00 Instrument ID: D2D  
Lims ID: 140-36940-A-7-C Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-44/47/65, CAS: STL01803

Signal: 2

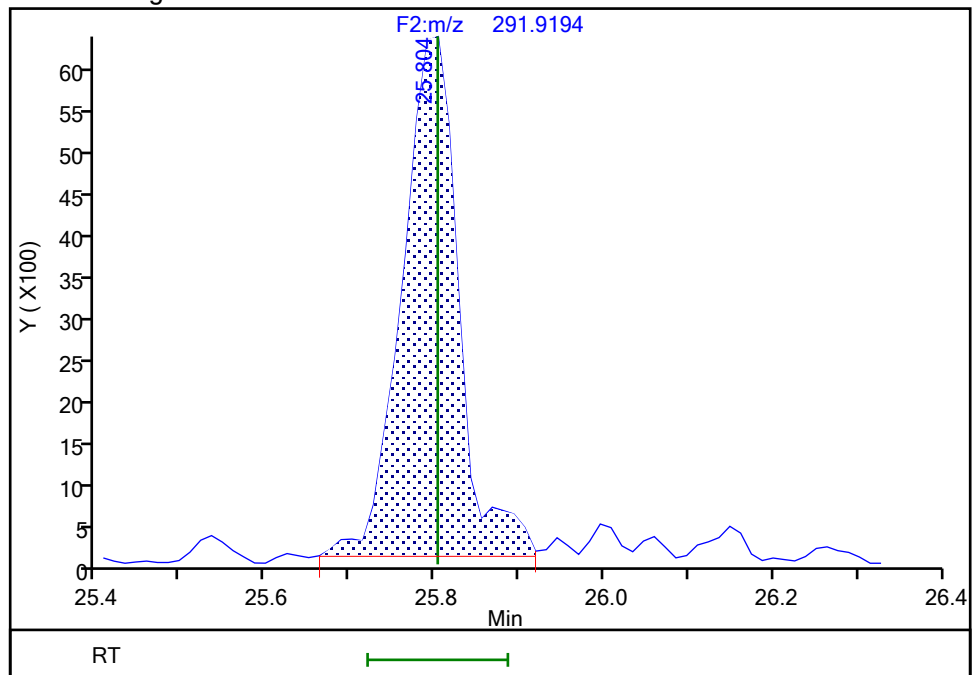
RT: 25.80  
Area: 31119  
Amount: 0.680067  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.80  
Area: 29306  
Amount: 0.656291  
Amount Units: pg/ul

## Manual Integration Results



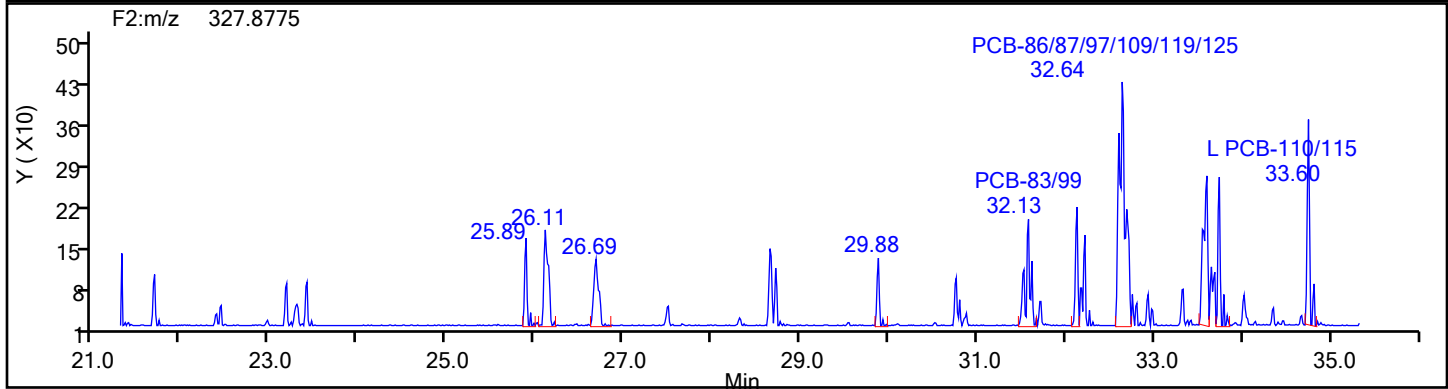
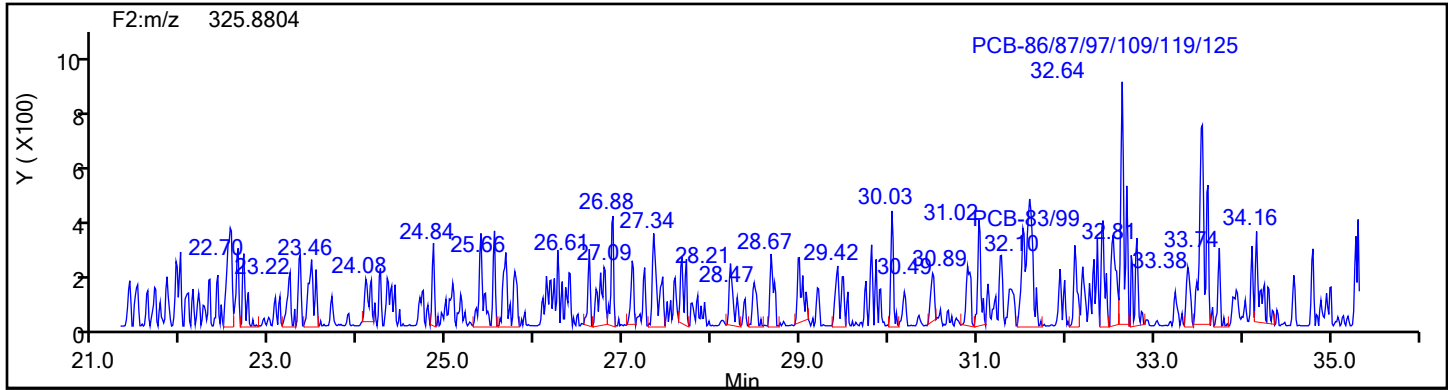
Reviewer: P0IK, 29-Jun-2024 11:40:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

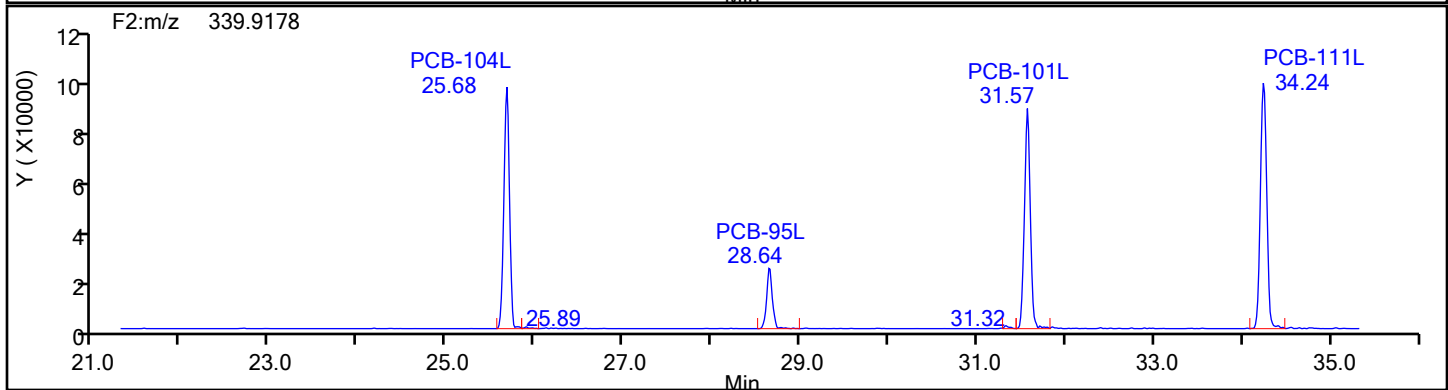
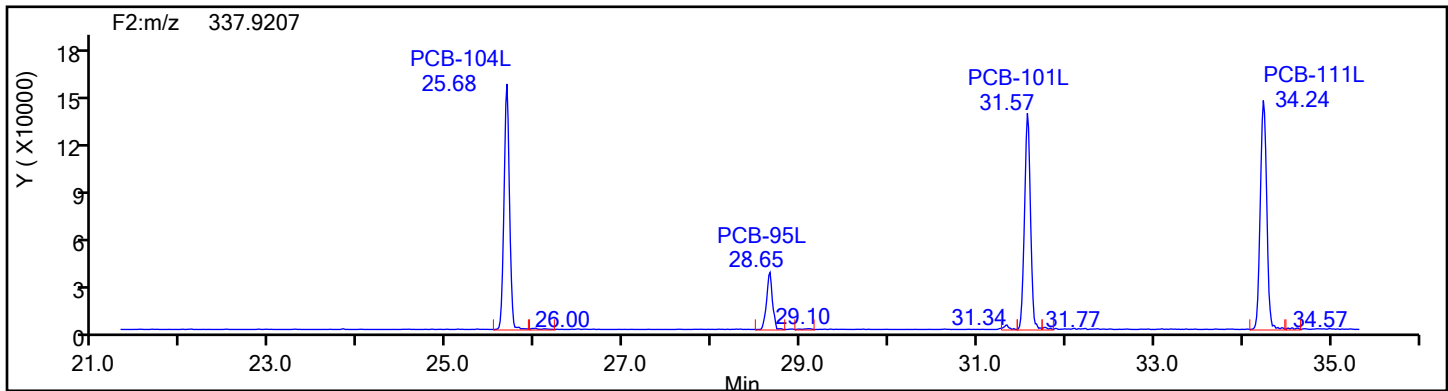
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

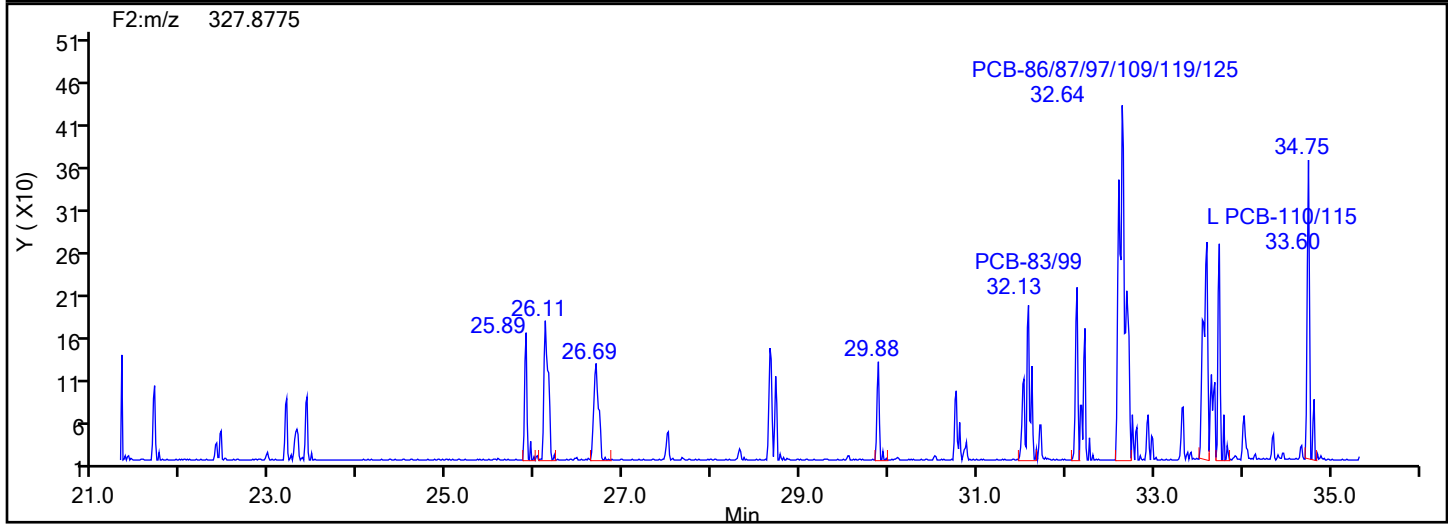
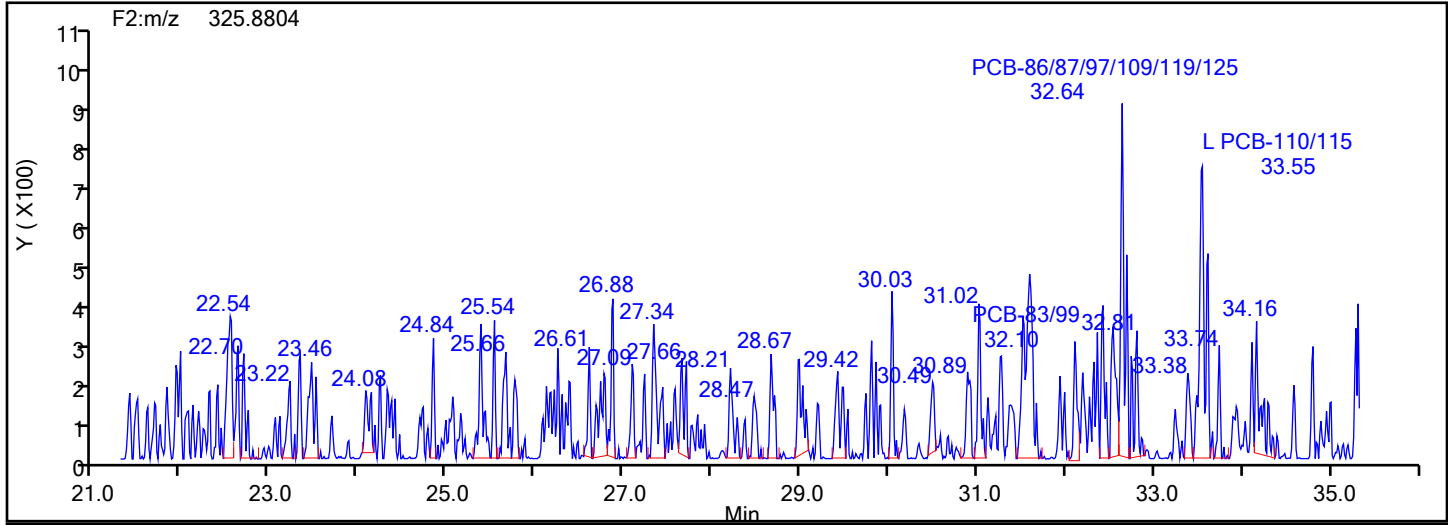


## PePCB F2 Standards

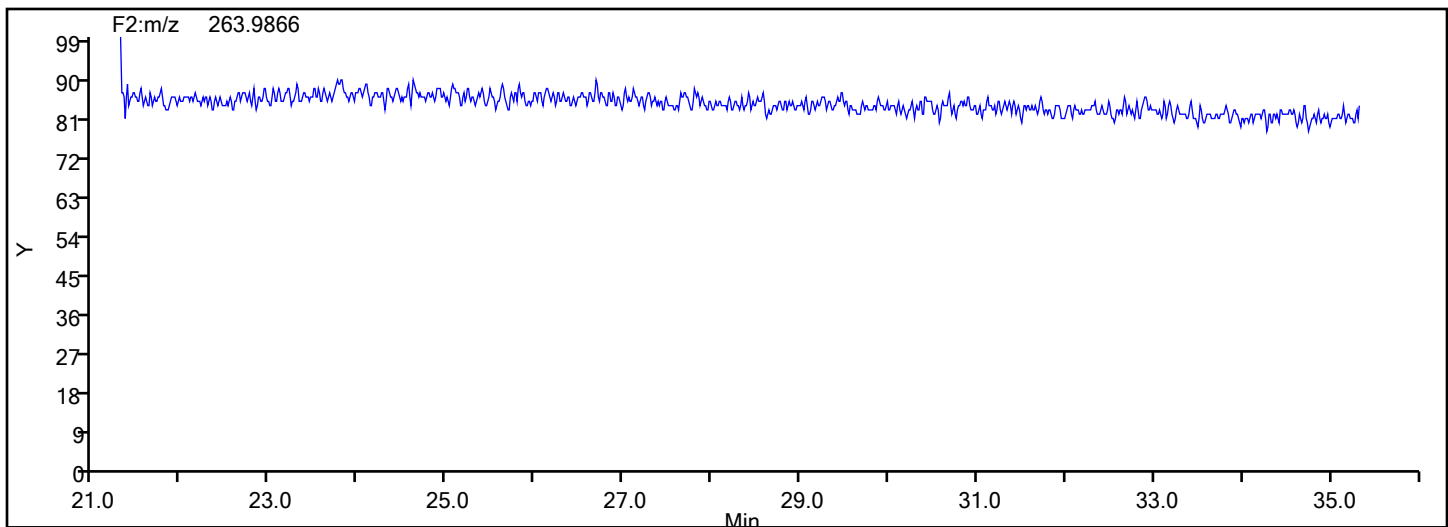


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



## PePCB F2 Lock Mass





## Eurofins Knoxville

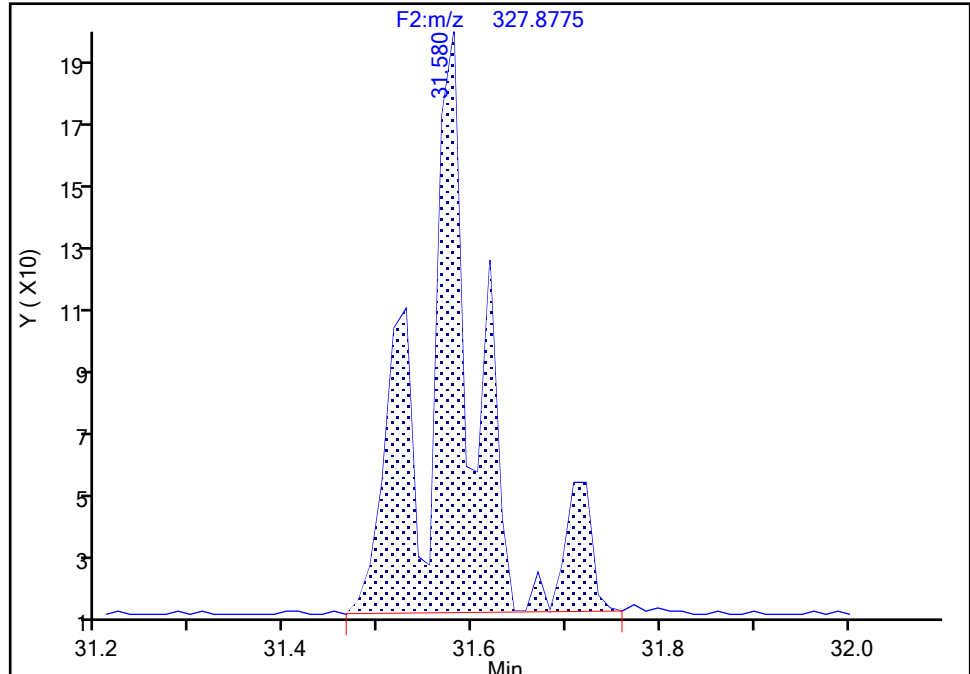
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Injection Date: 28-Jun-2024 17:53:00 Instrument ID: D2D  
Lims ID: 140-36940-A-7-C Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1\IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

**PCB-90/101/113, CAS: STL01813**

Signal: 2

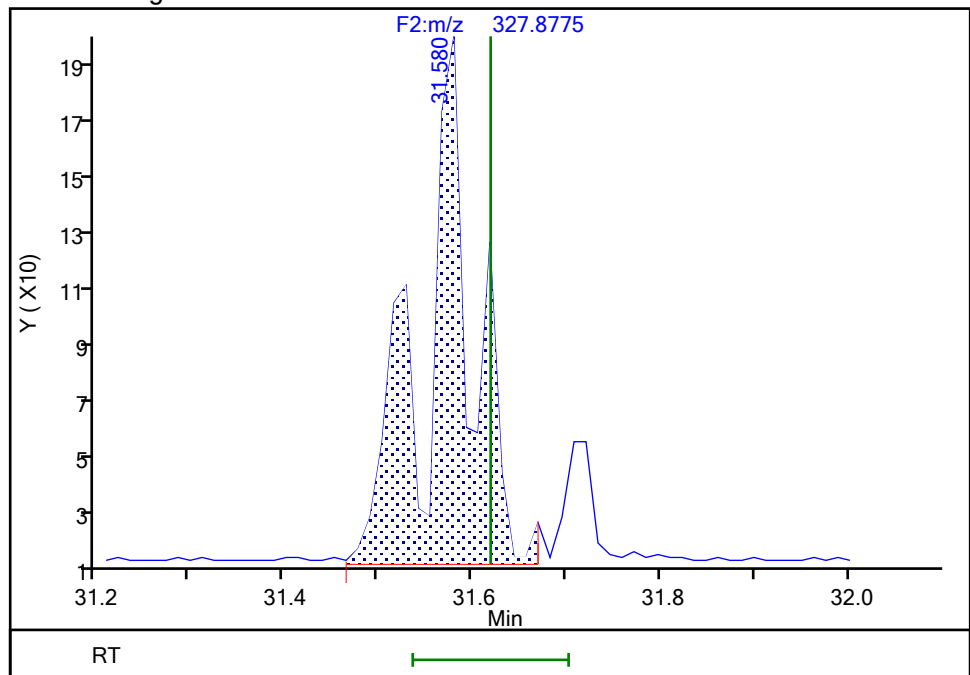
RT: 31.58  
Area: 730  
Amount: 0.074154  
Amount Units: pg/ul

## Processing Integration Results



RT: 31.58  
Area: 664  
Amount: 0.072851  
Amount Units: pg/ul

## Manual Integration Results



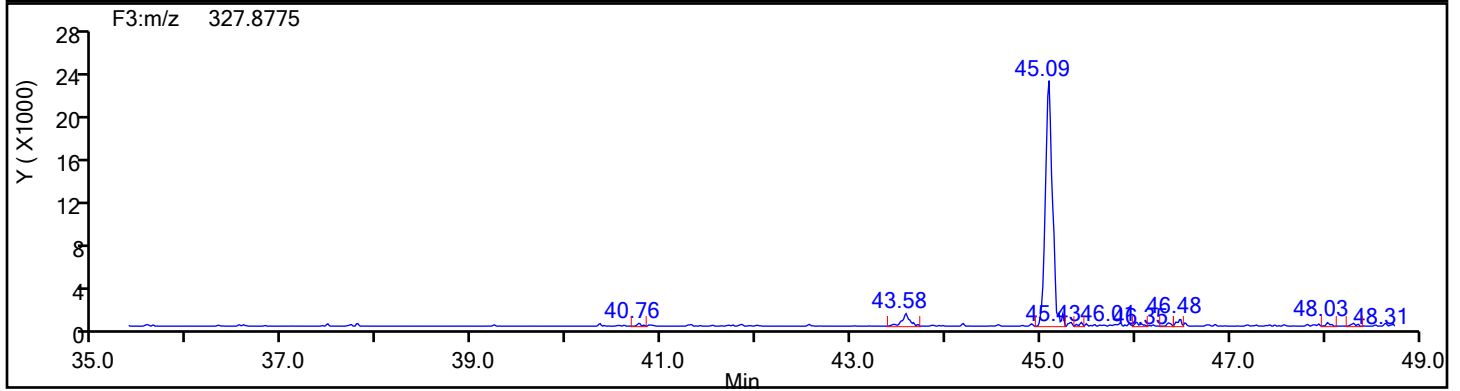
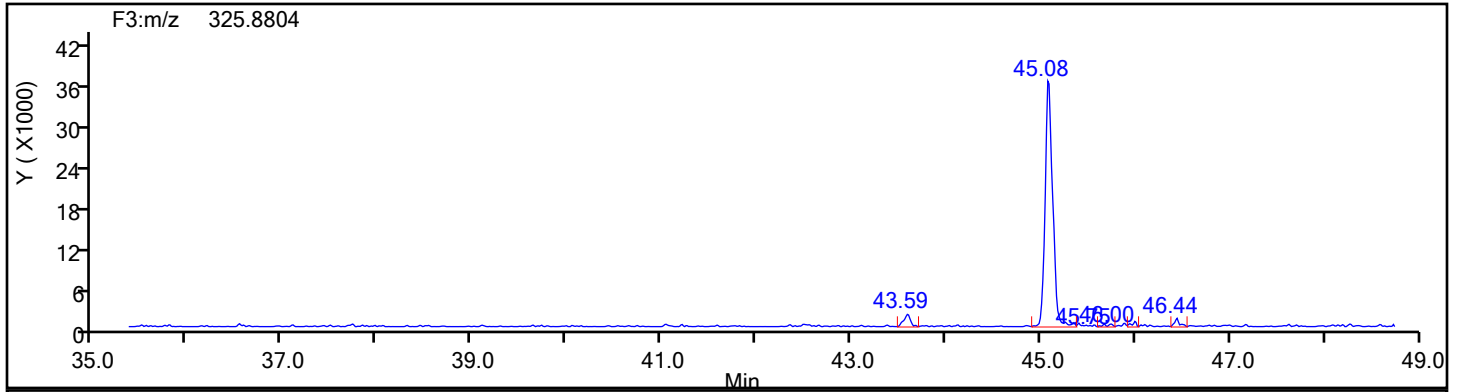
Reviewer: P0IK, 29-Jun-2024 11:42:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

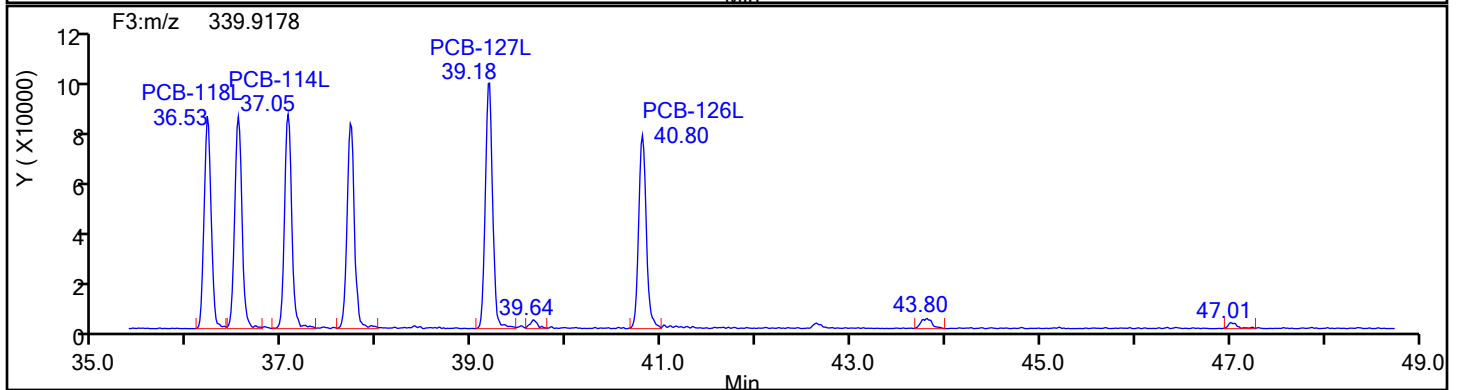
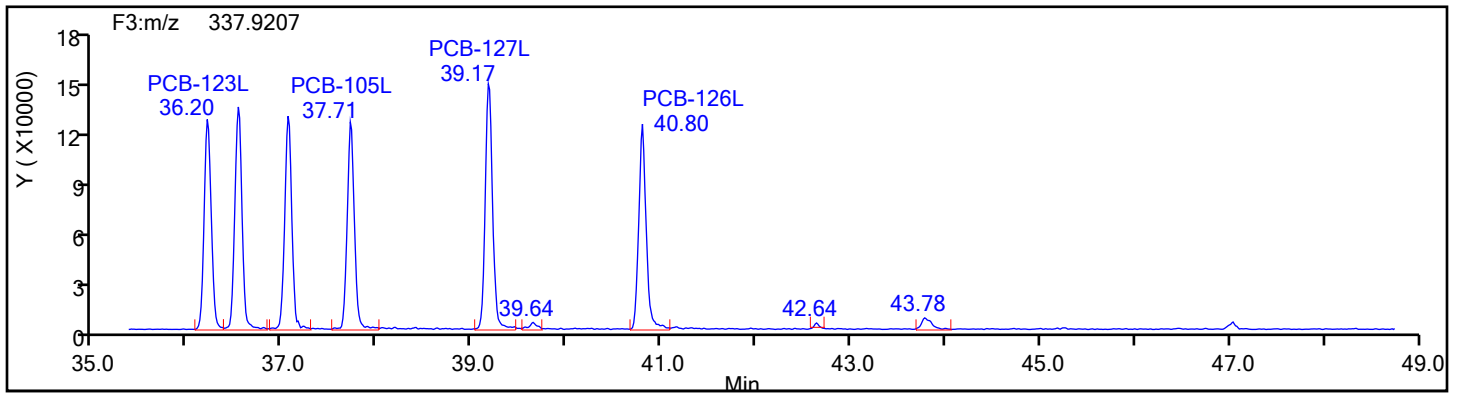
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

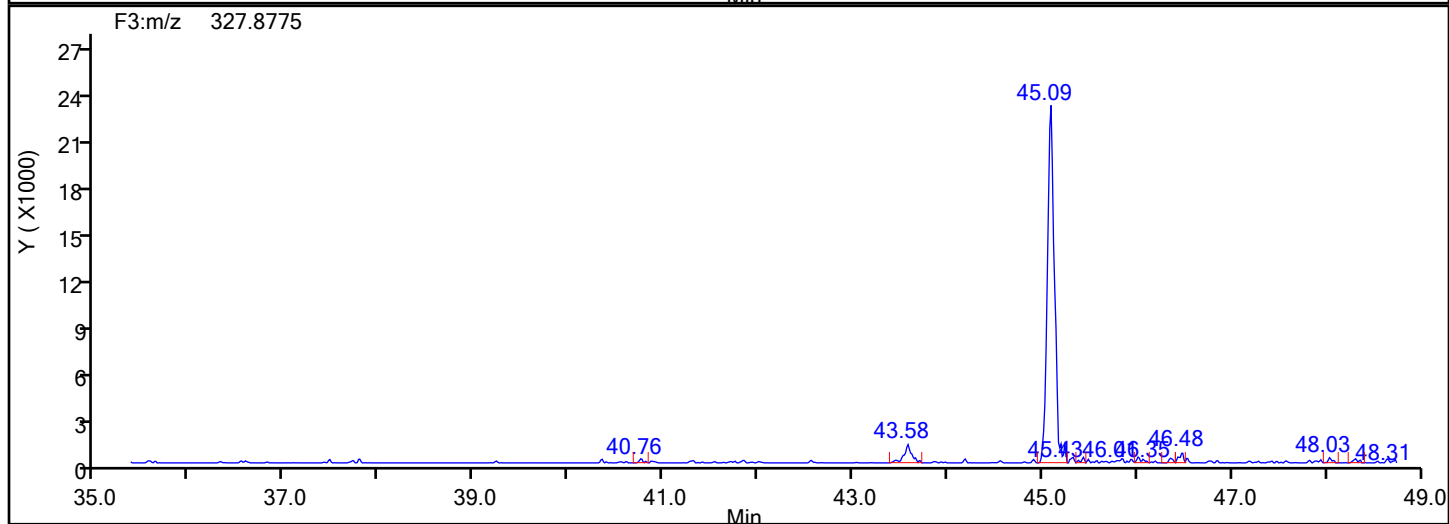
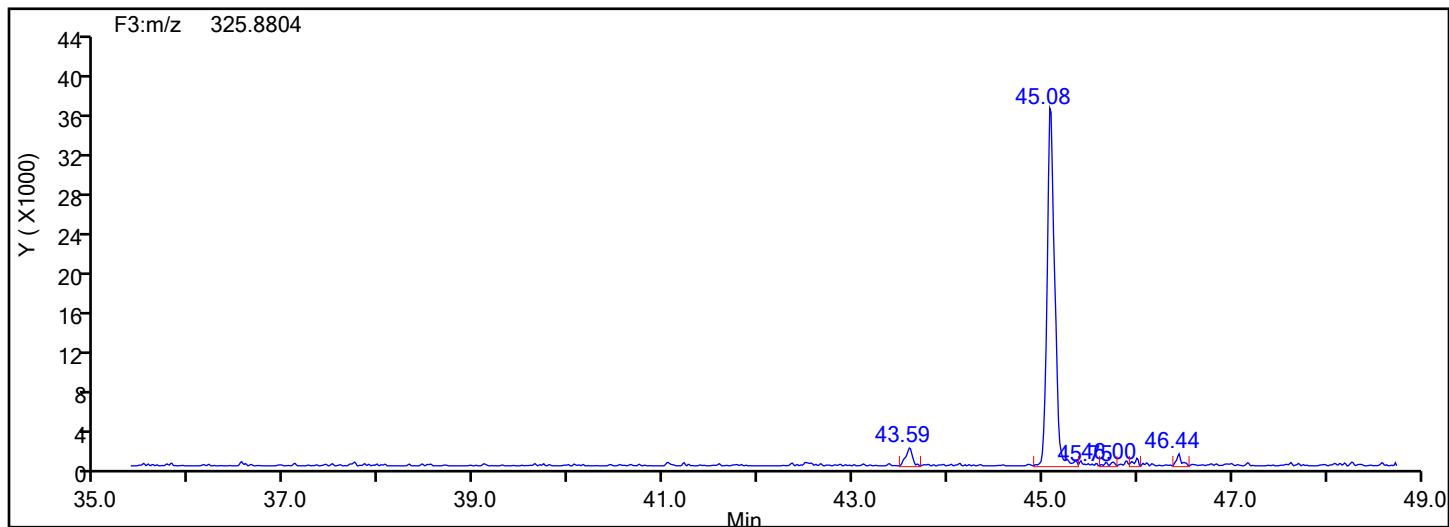


## PePCB F3 Standards

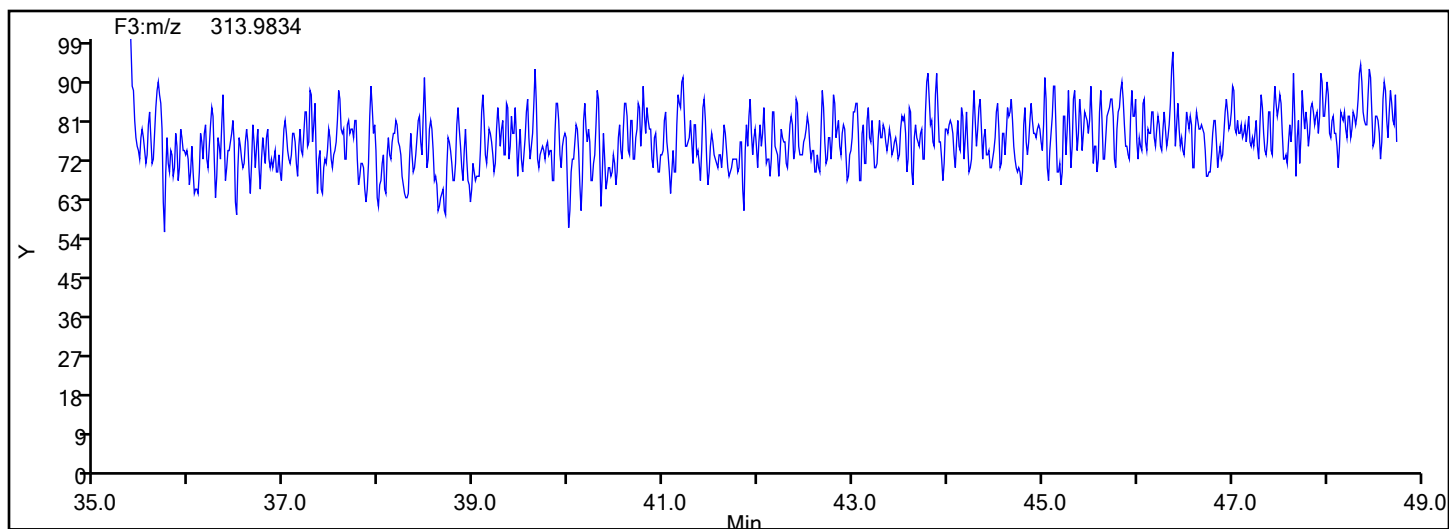


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

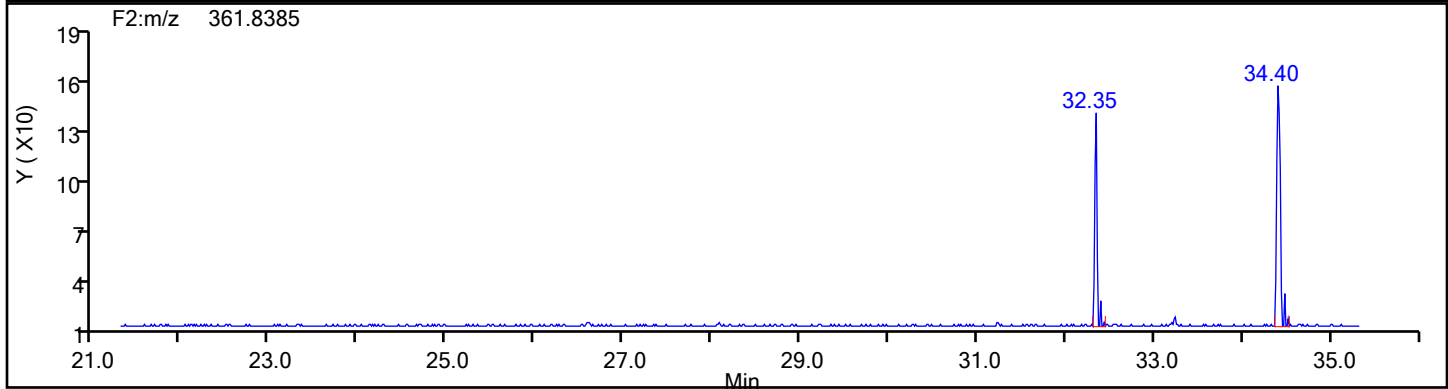
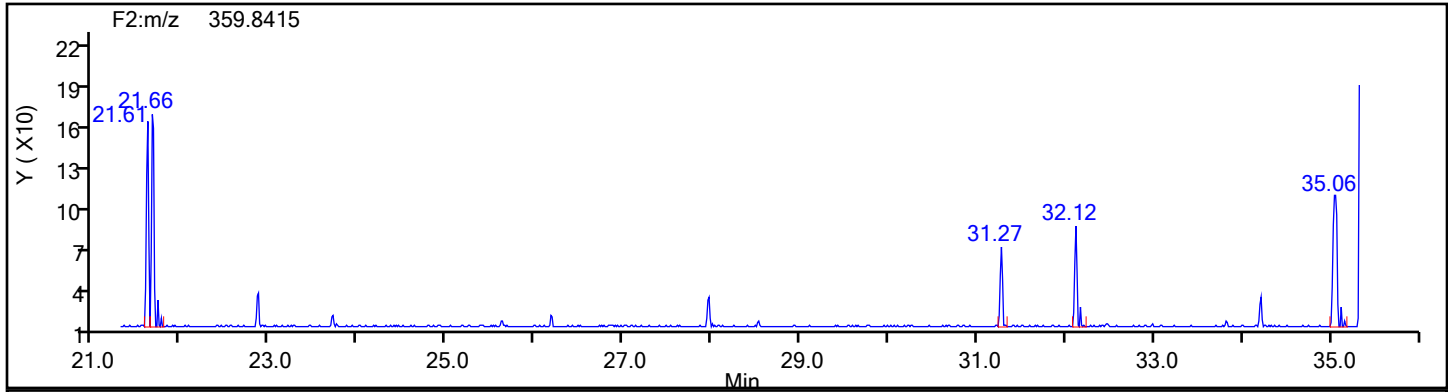


## PePCB F3 Lock Mass

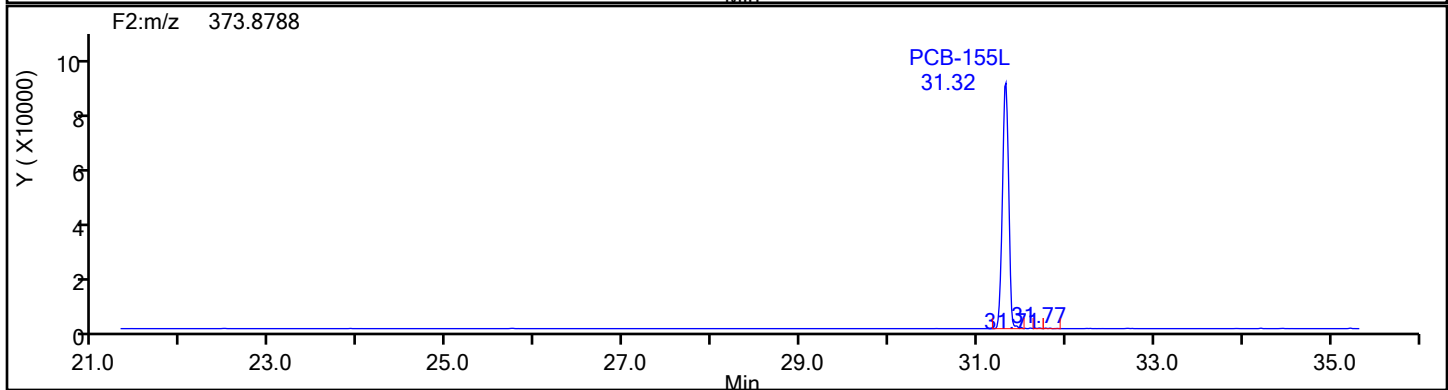
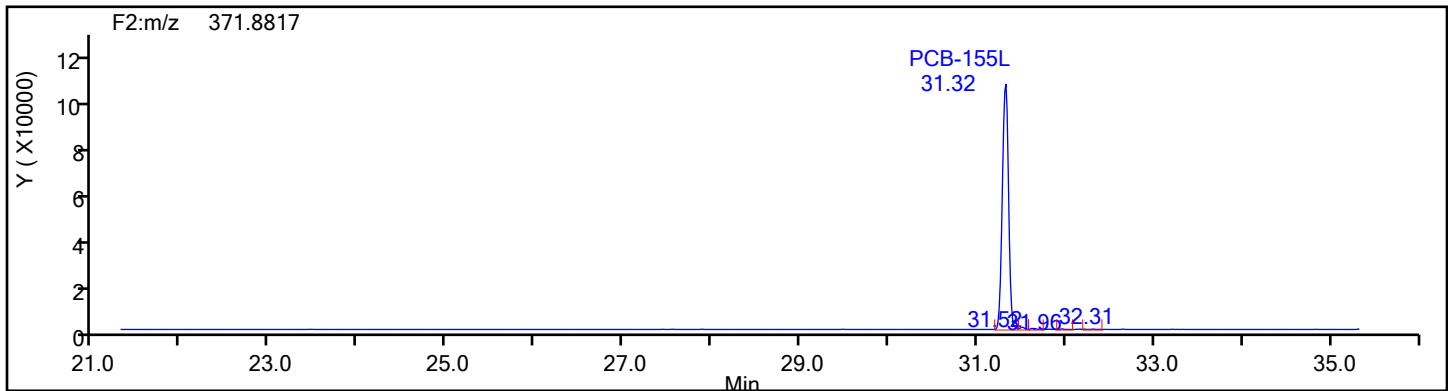


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

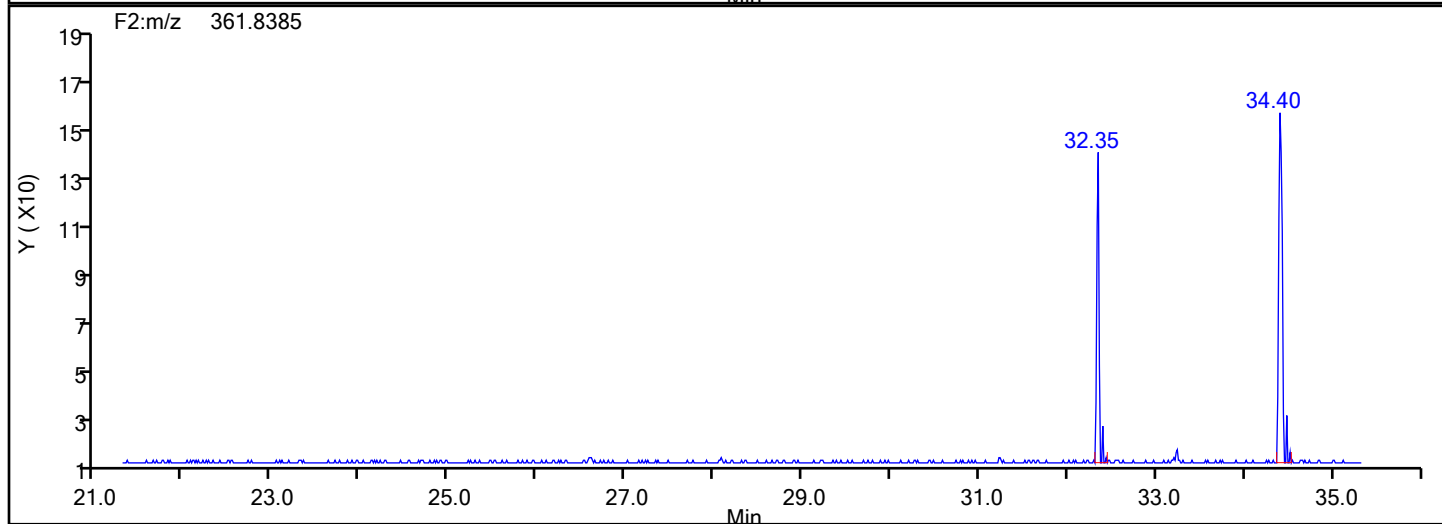
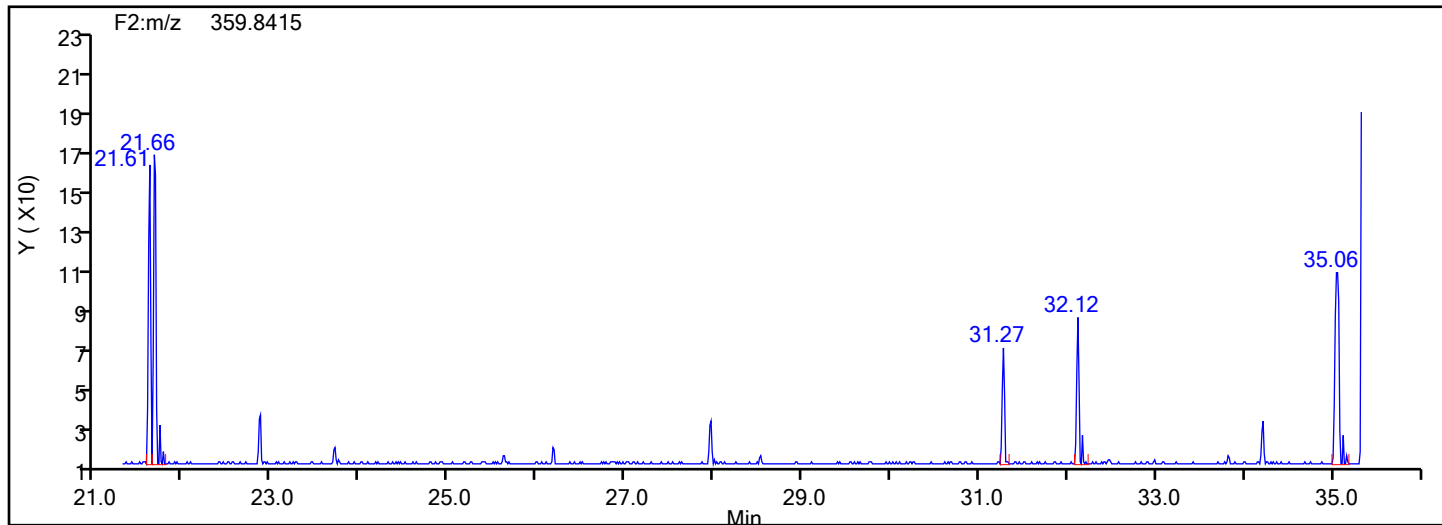


## HxPCB F2 Standards

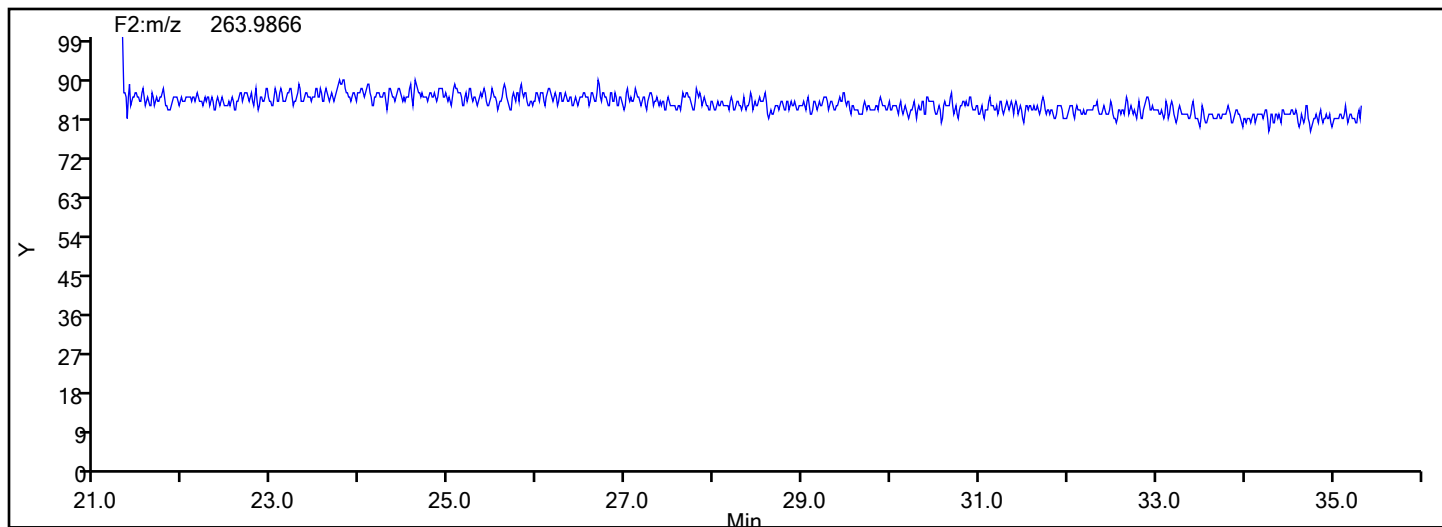


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

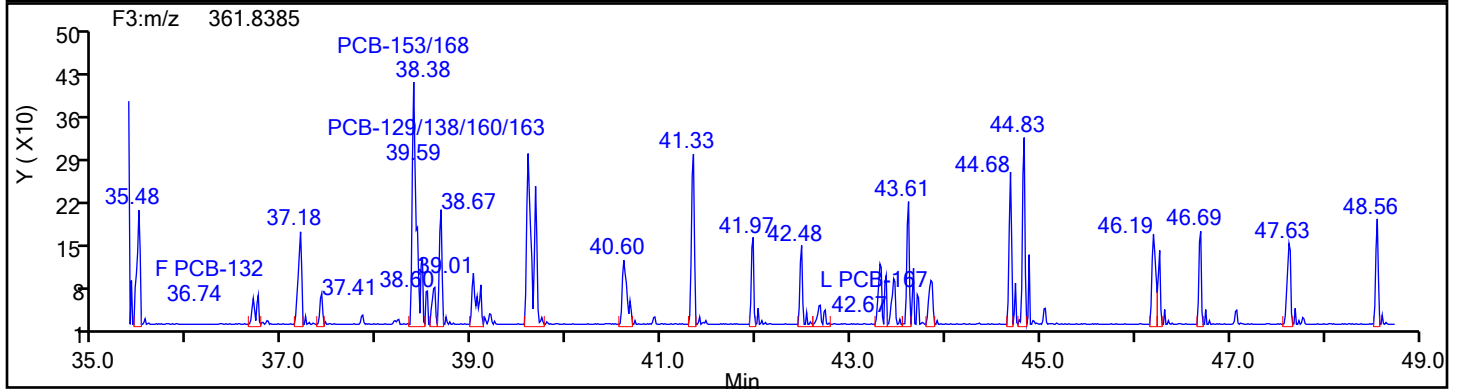
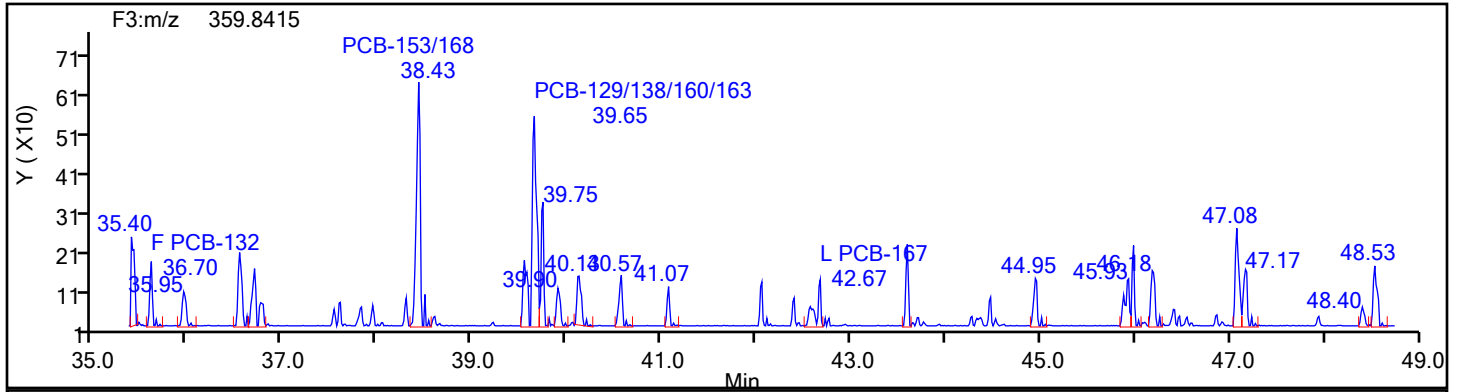


## HxPCB F2 Lock Mass

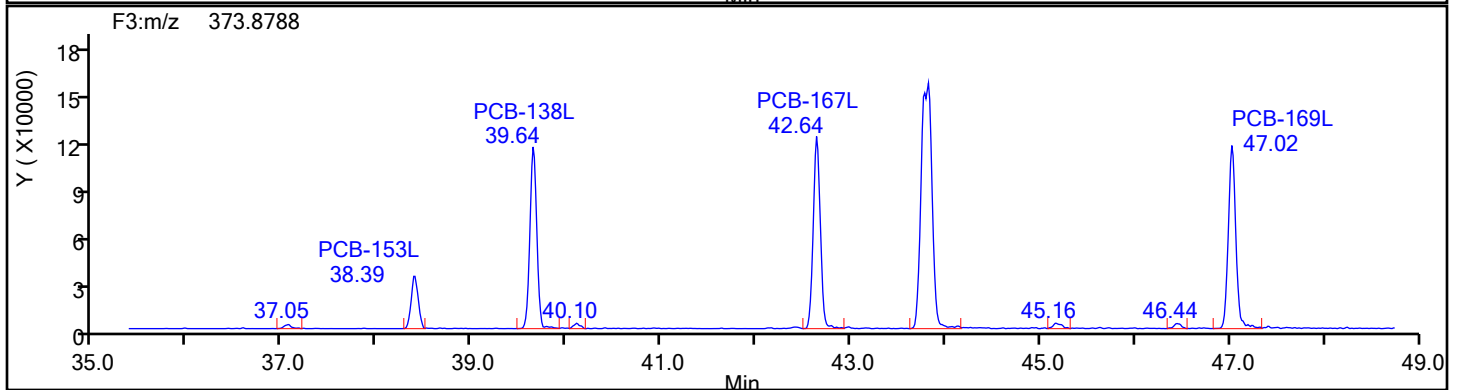
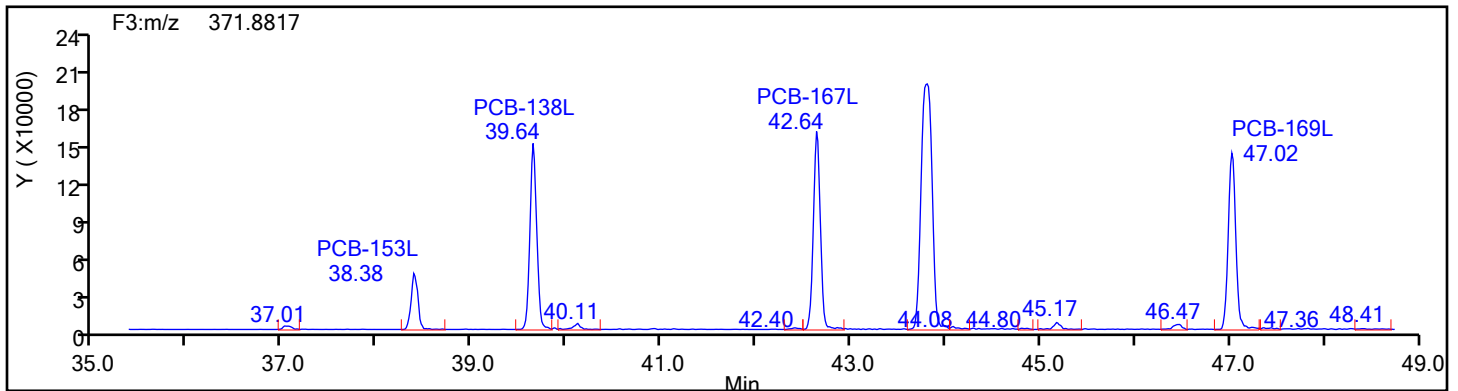


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3

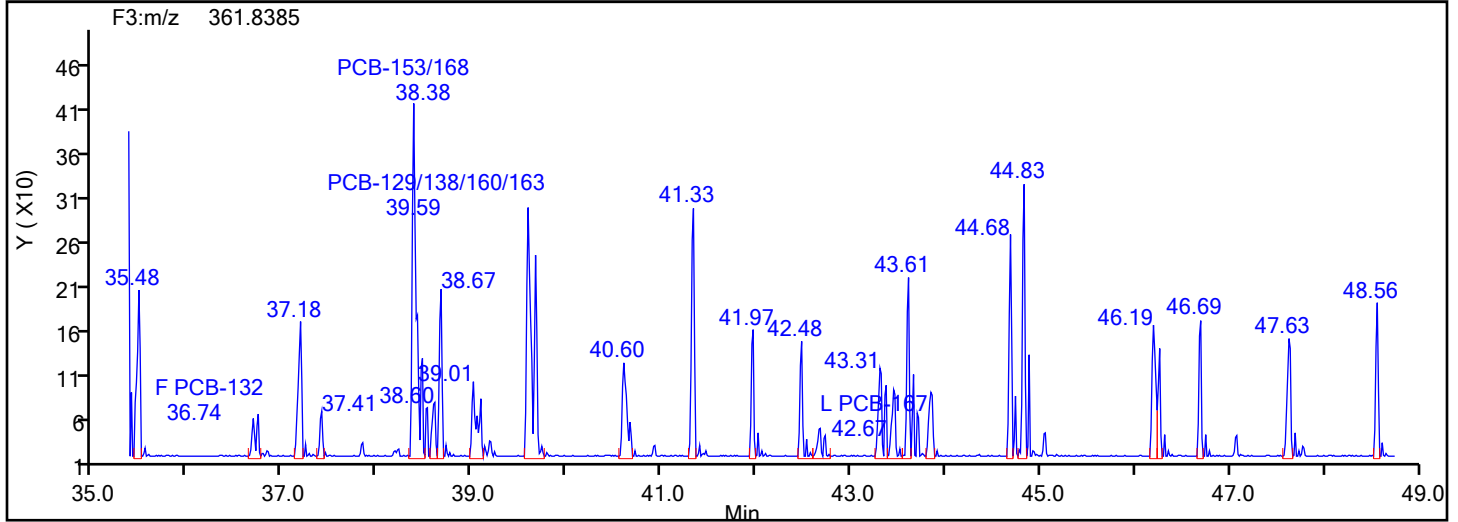
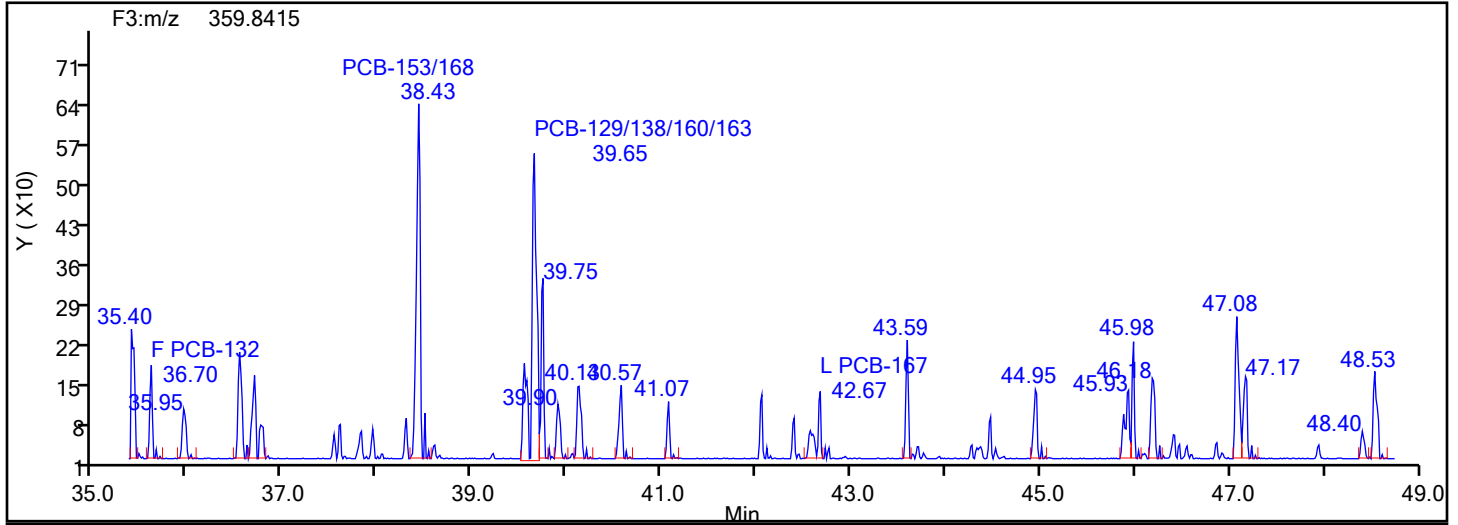


## HxPCB F3 Standards

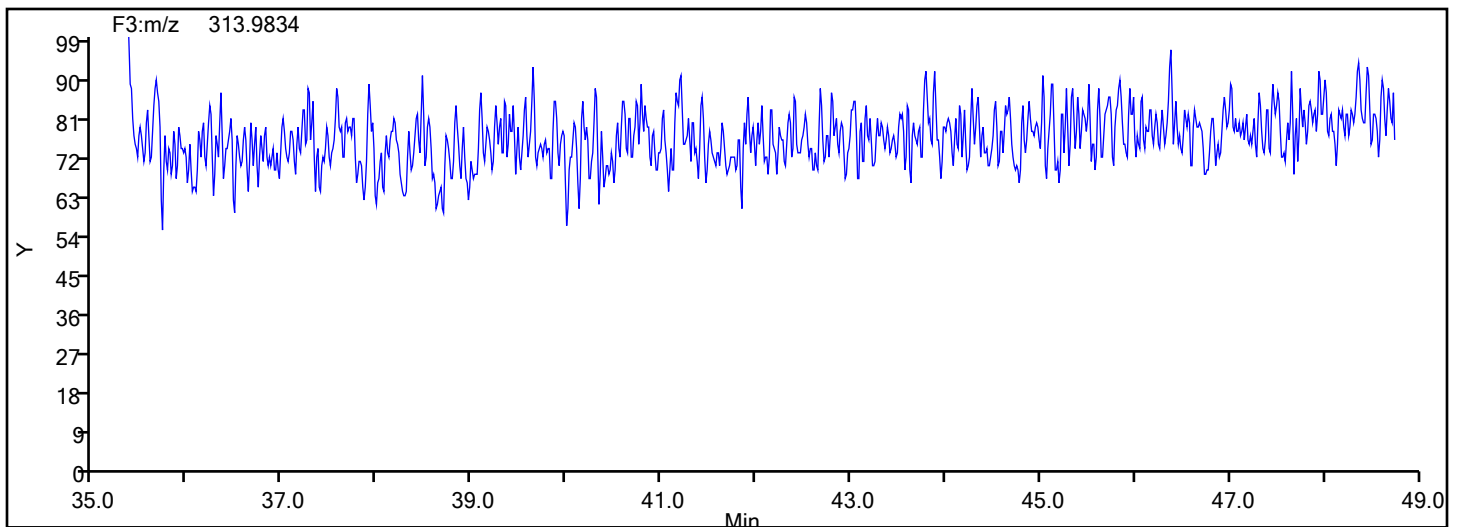


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

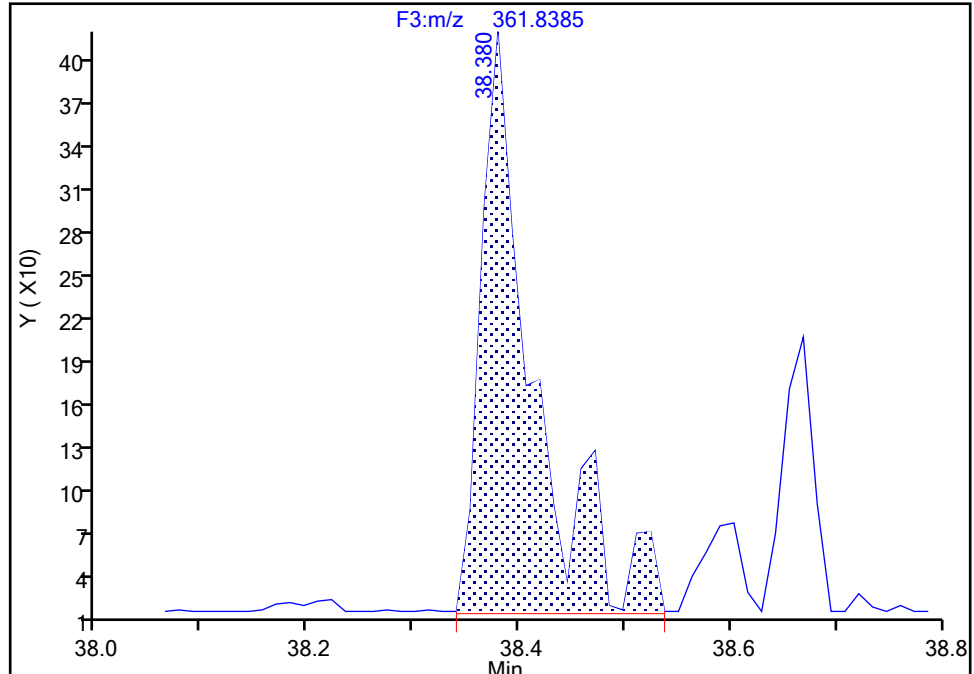
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Injection Date: 28-Jun-2024 17:53:00 Instrument ID: D2D  
Lims ID: 140-36940-A-7-C Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1\IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-153/168, CAS: STL01822**

Signal: 2

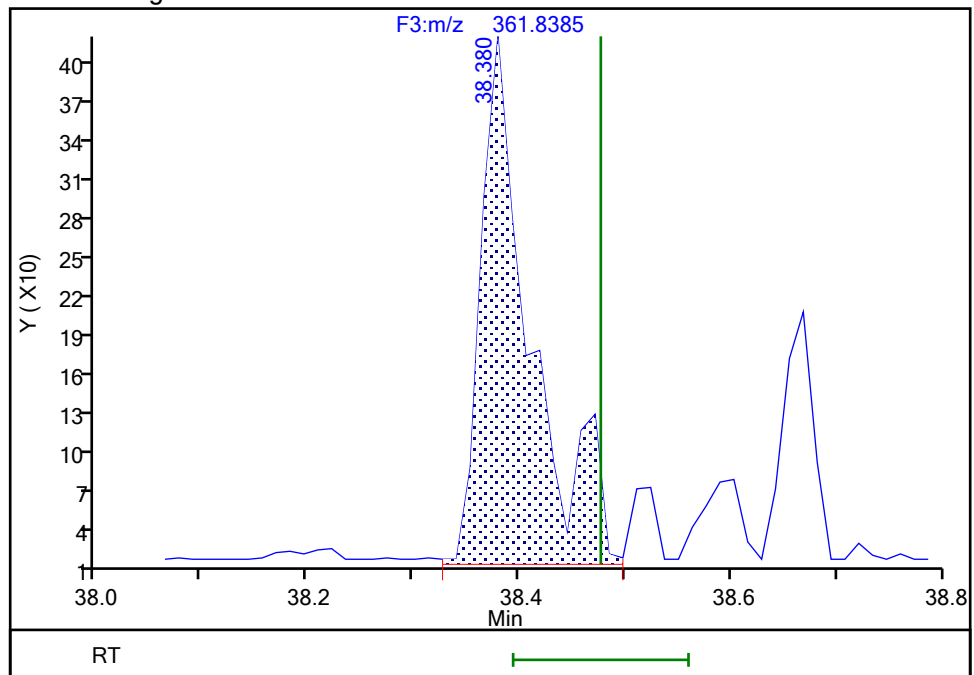
RT: 38.38  
Area: 1373  
Amount: 0.040822  
Amount Units: pg/ul

## Processing Integration Results



RT: 38.38  
Area: 1295  
Amount: 0.039816  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 11:45:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

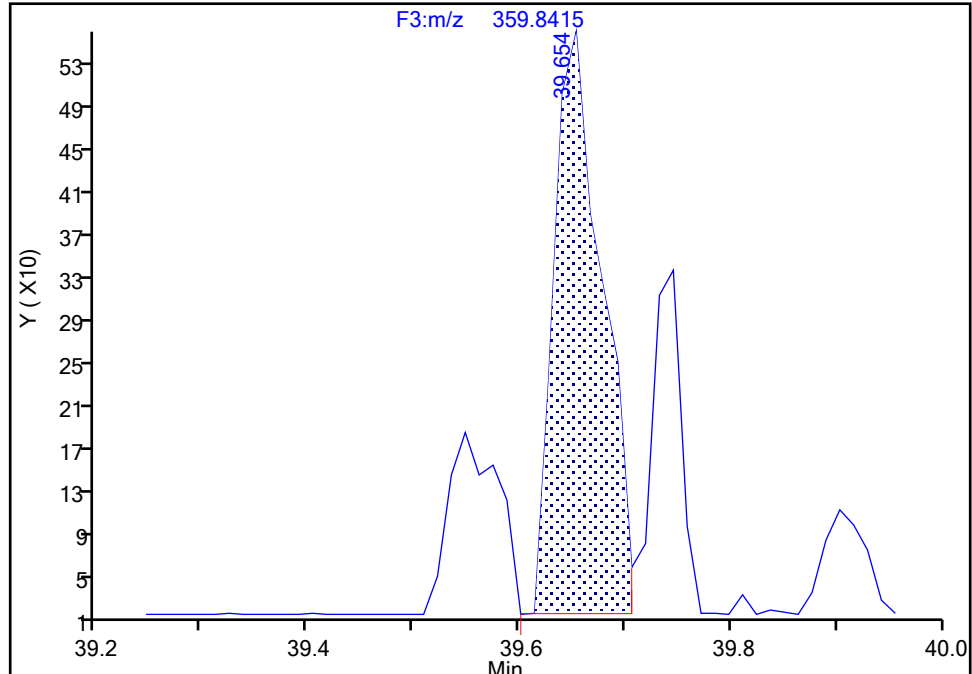
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Injection Date: 28-Jun-2024 17:53:00 Instrument ID: D2D  
Lims ID: 140-36940-A-7-C Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1\IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

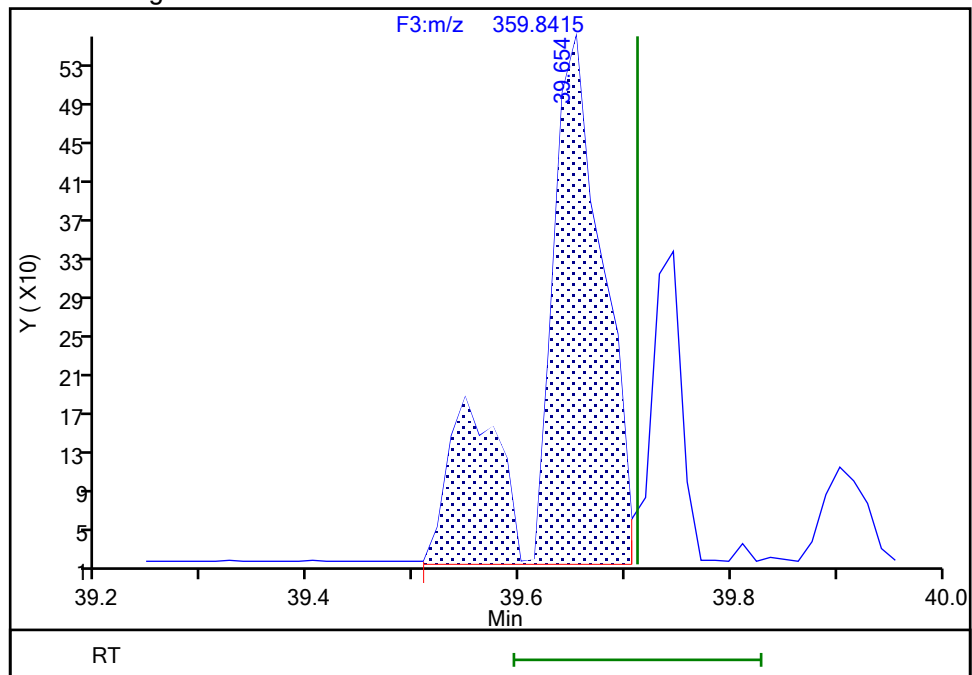
RT: 39.65  
Area: 1689  
Amount: 0.031612  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.65  
Area: 2265  
Amount: 0.052264  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 11:45:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

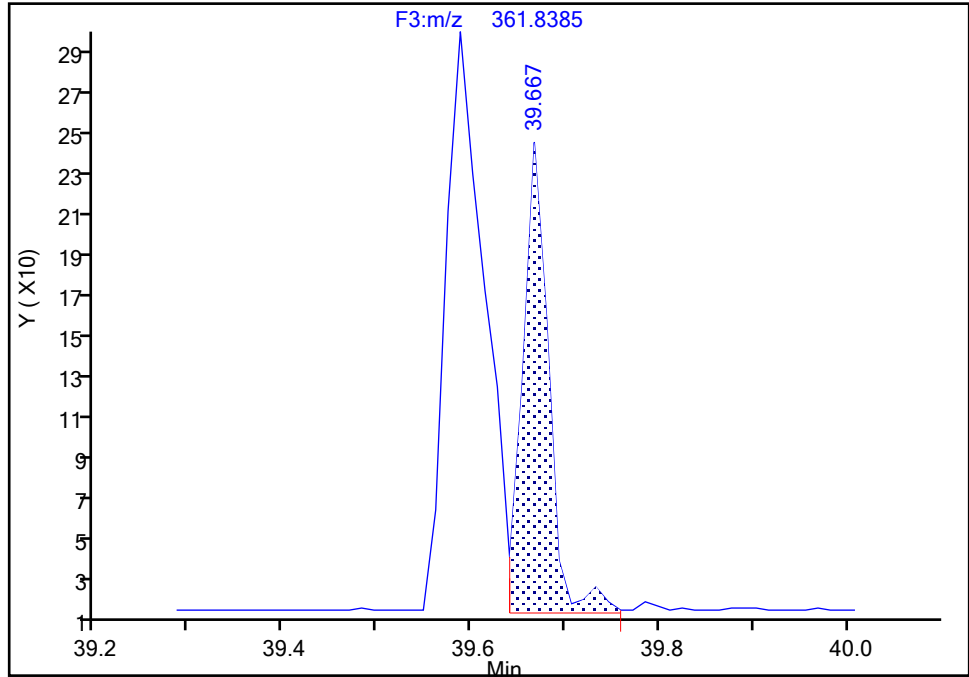
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Injection Date: 28-Jun-2024 17:53:00 Instrument ID: D2D  
Lims ID: 140-36940-A-7-C Lab Sample ID: 140-36940-7  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

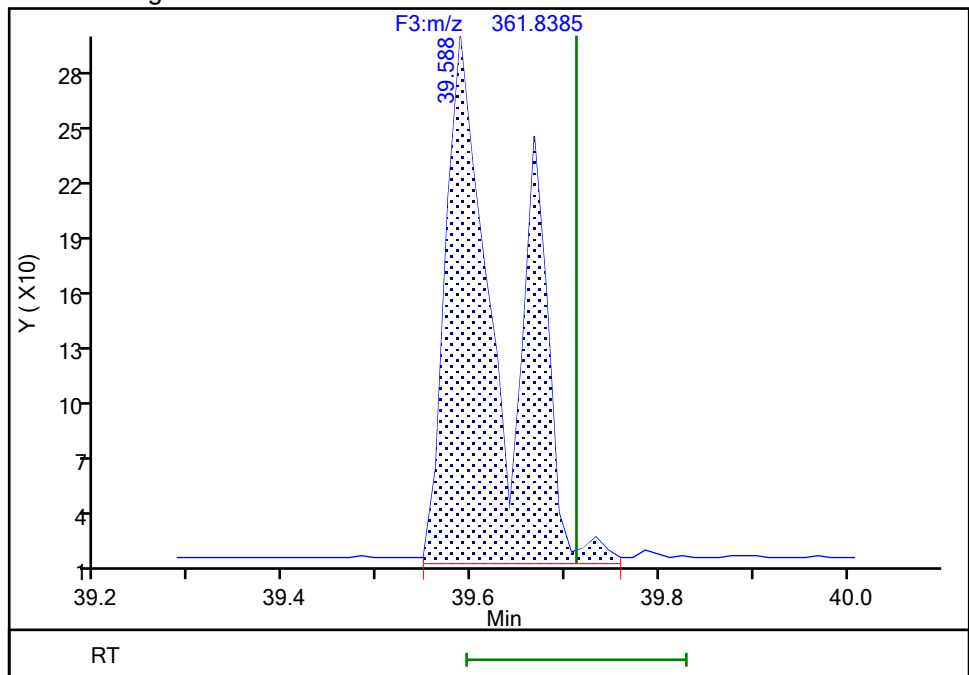
RT: 39.67  
Area: 431  
Amount: 0.031612  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.59  
Area: 1240  
Amount: 0.052264  
Amount Units: pg/ul

## Manual Integration Results



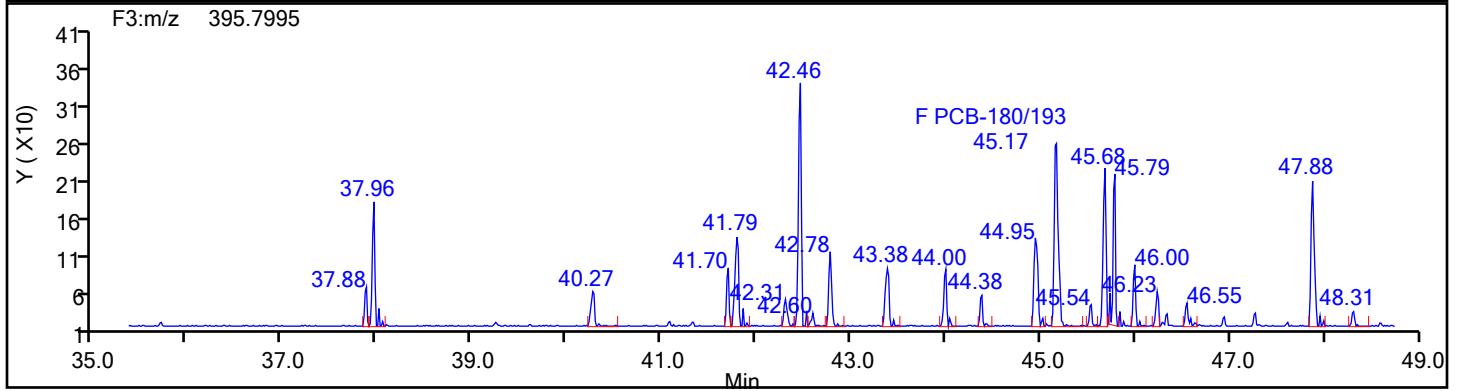
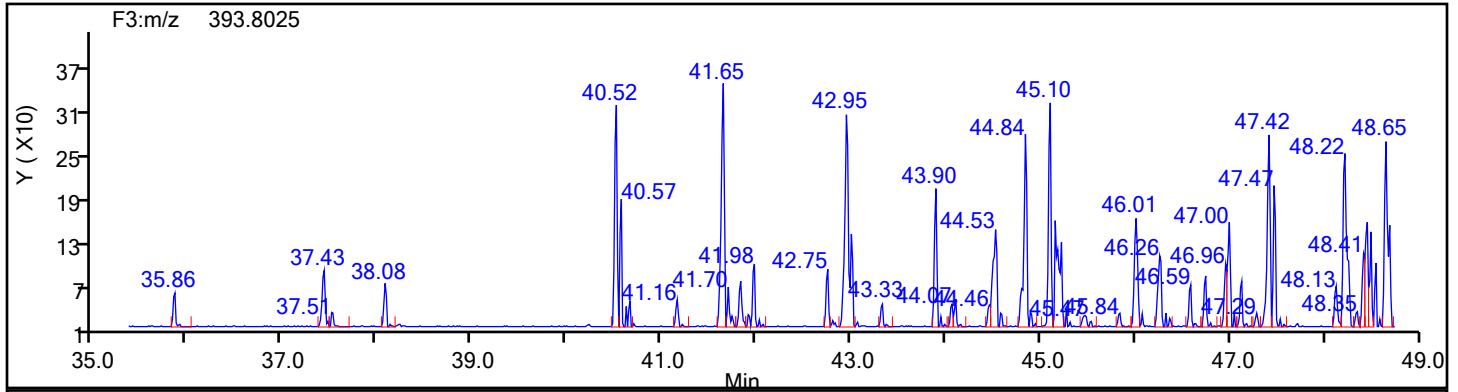
Reviewer: P0IK, 29-Jun-2024 11:45:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

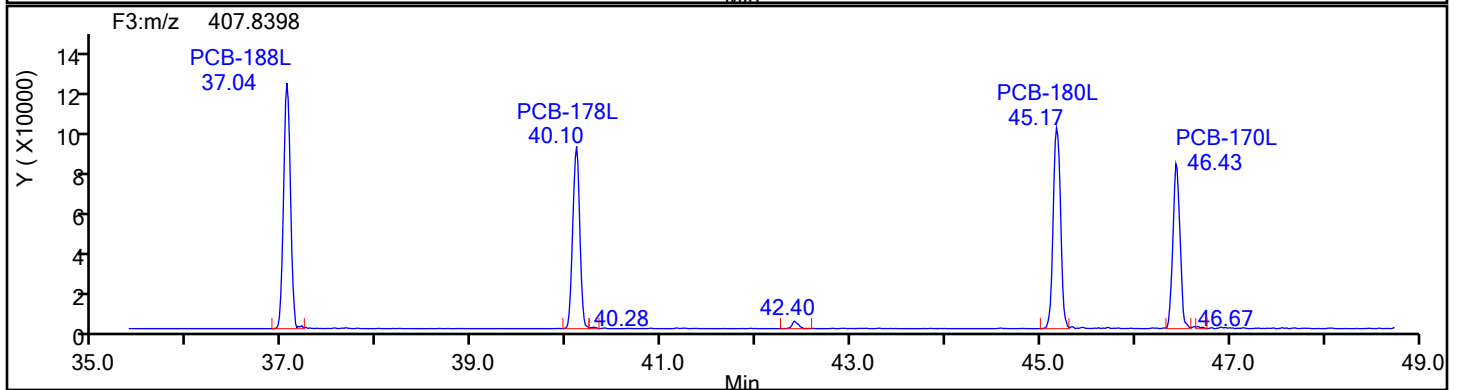
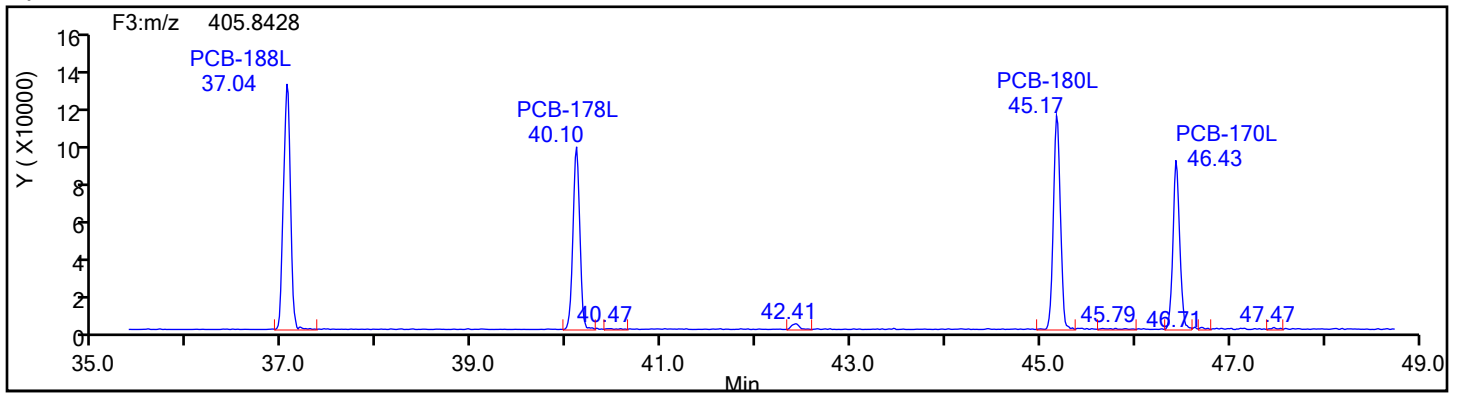
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

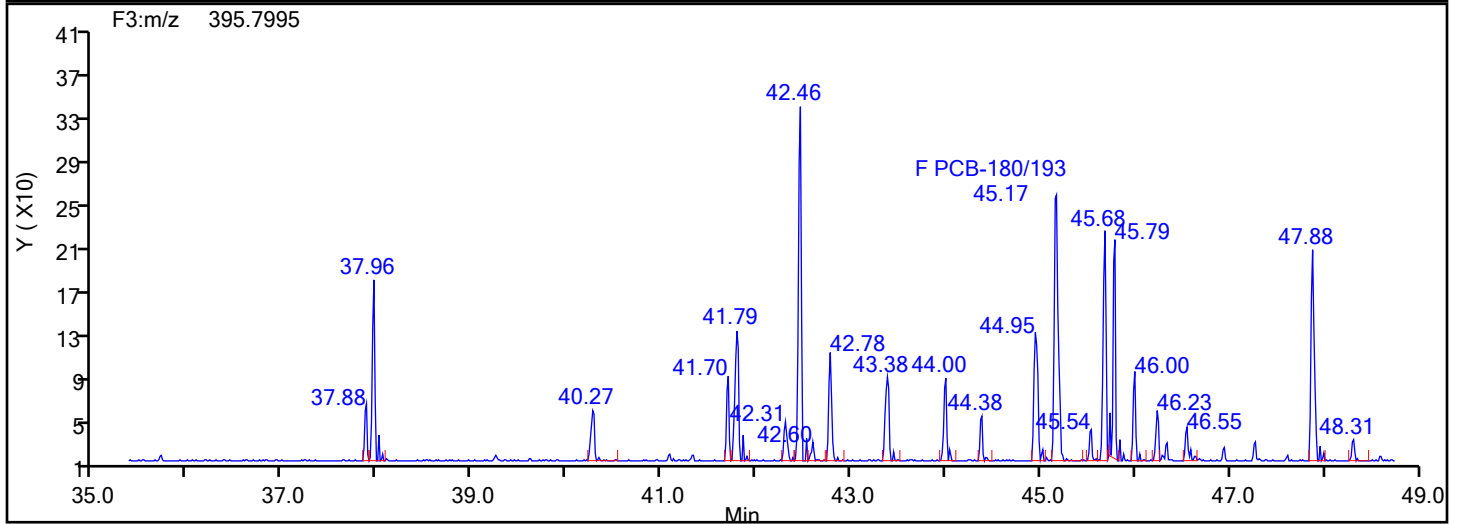
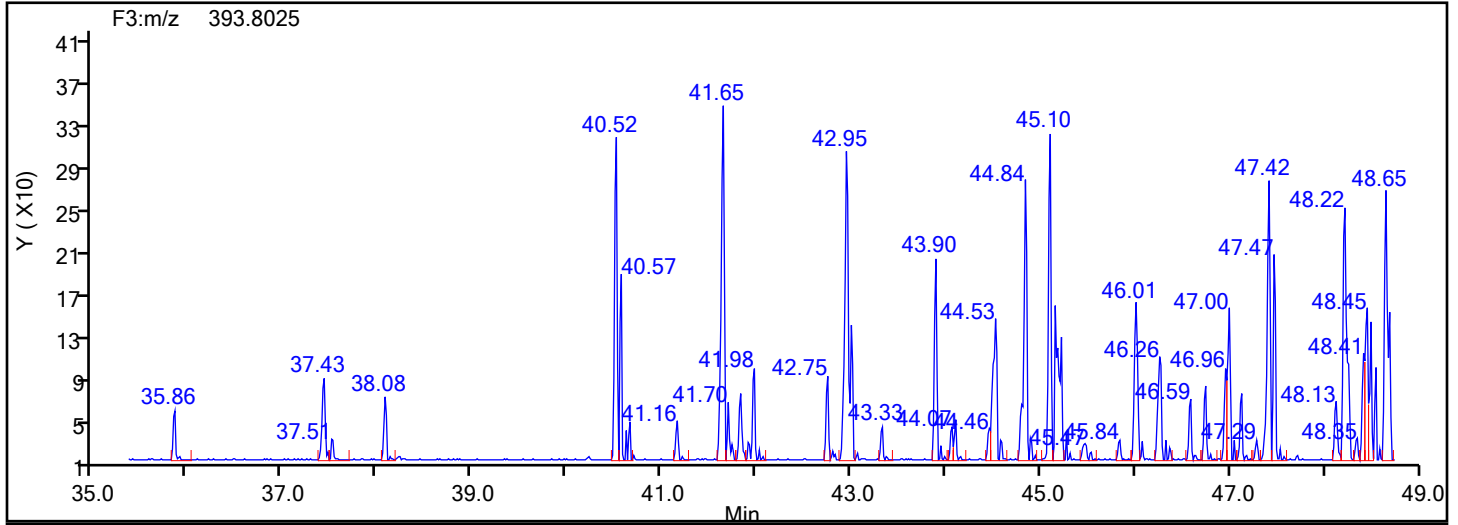


## HpPCB F3 Standards

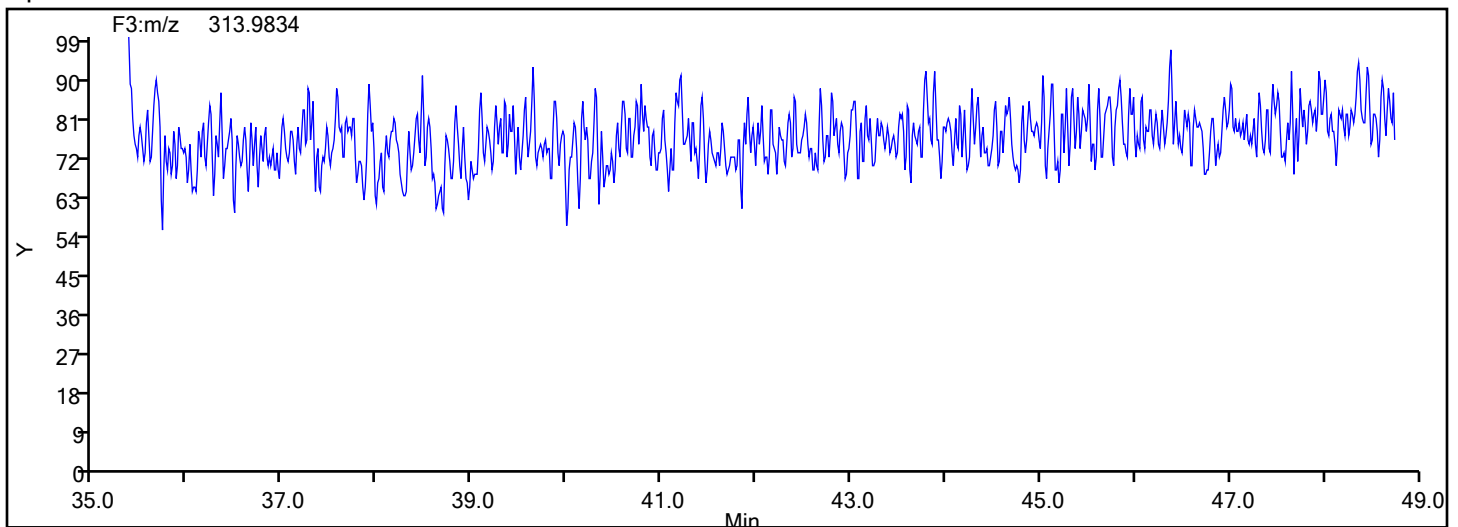


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

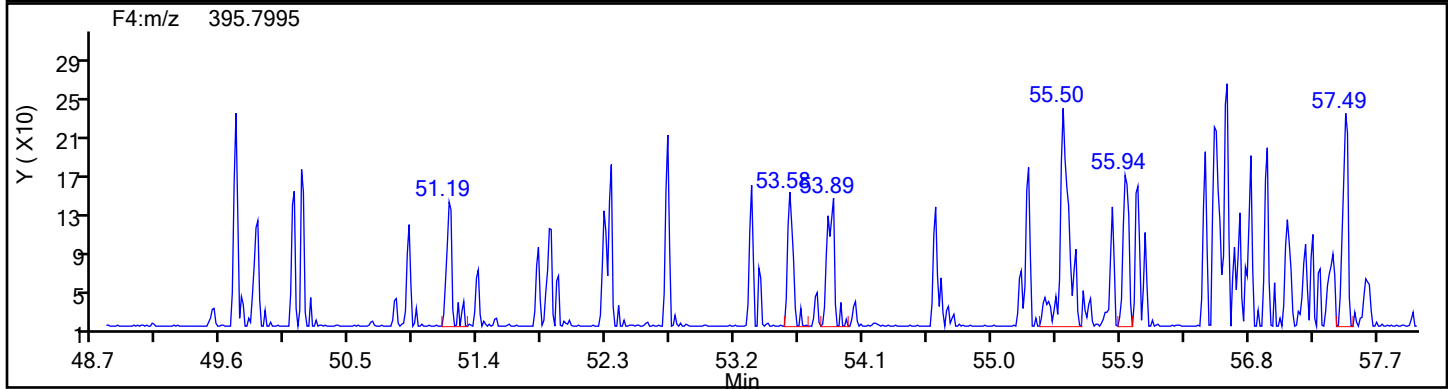
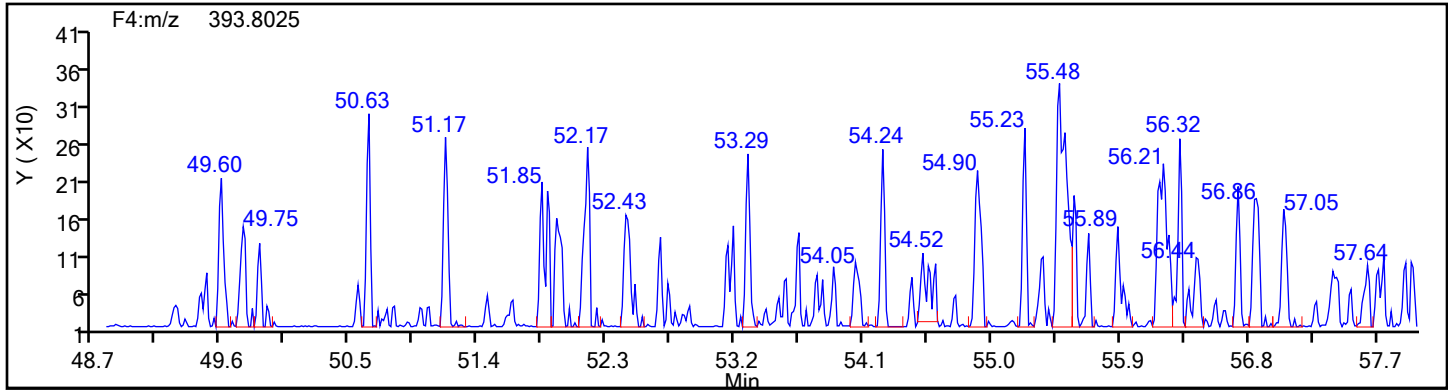


## HpPCB F3 Lock Mass

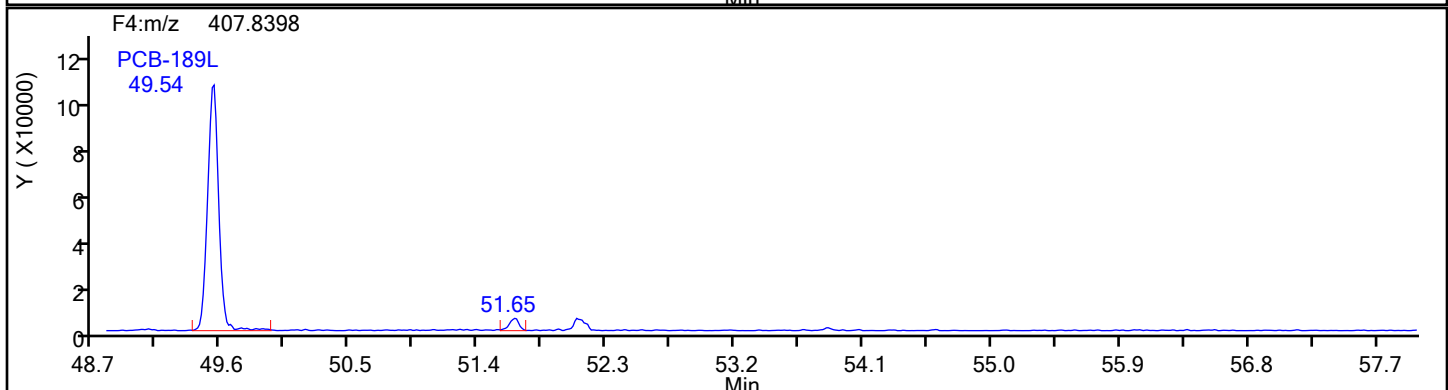
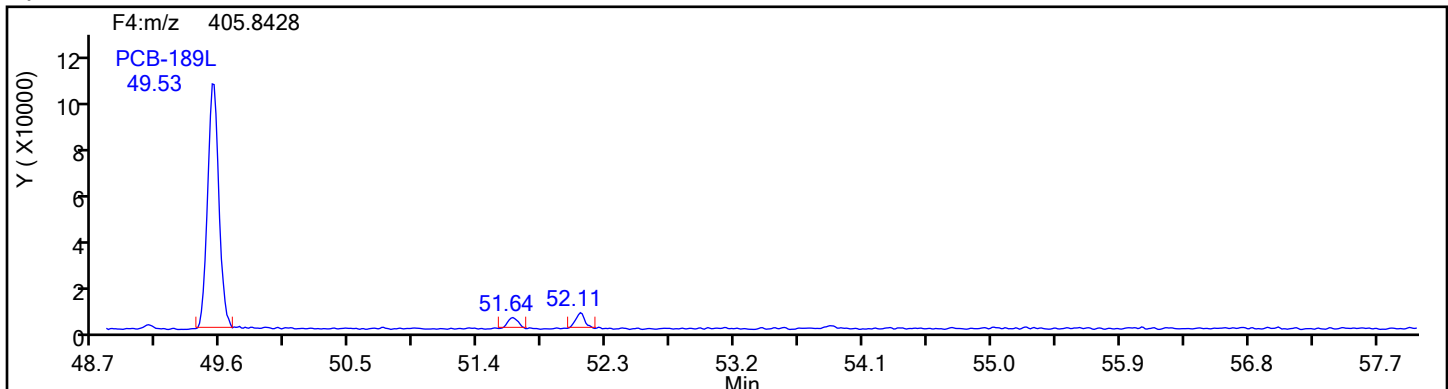


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

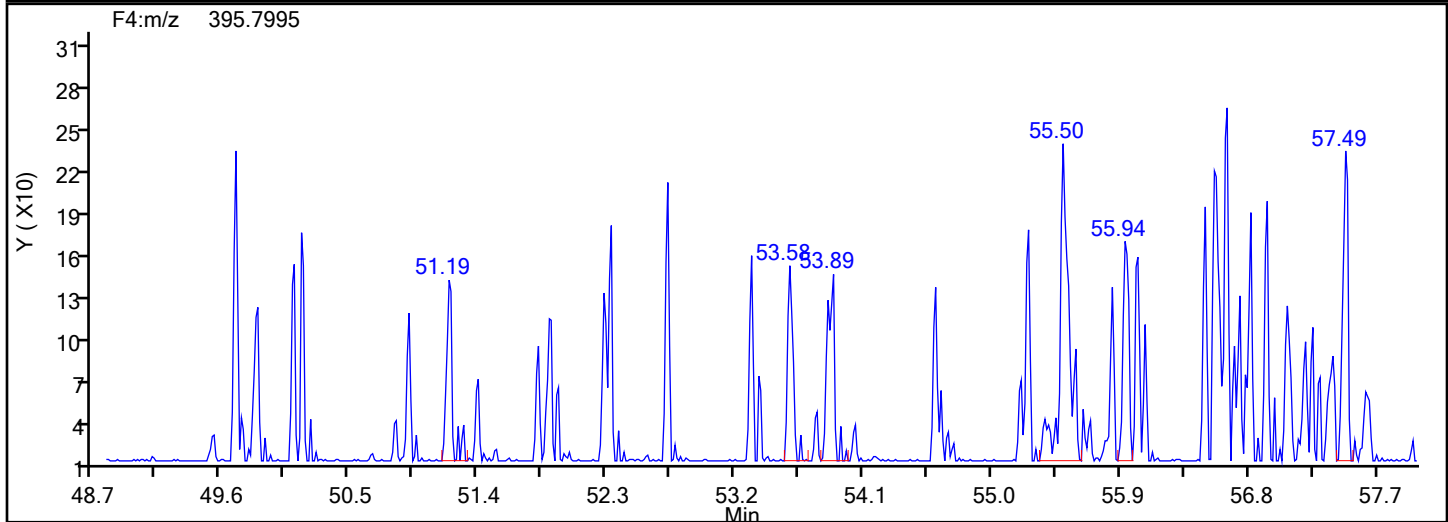
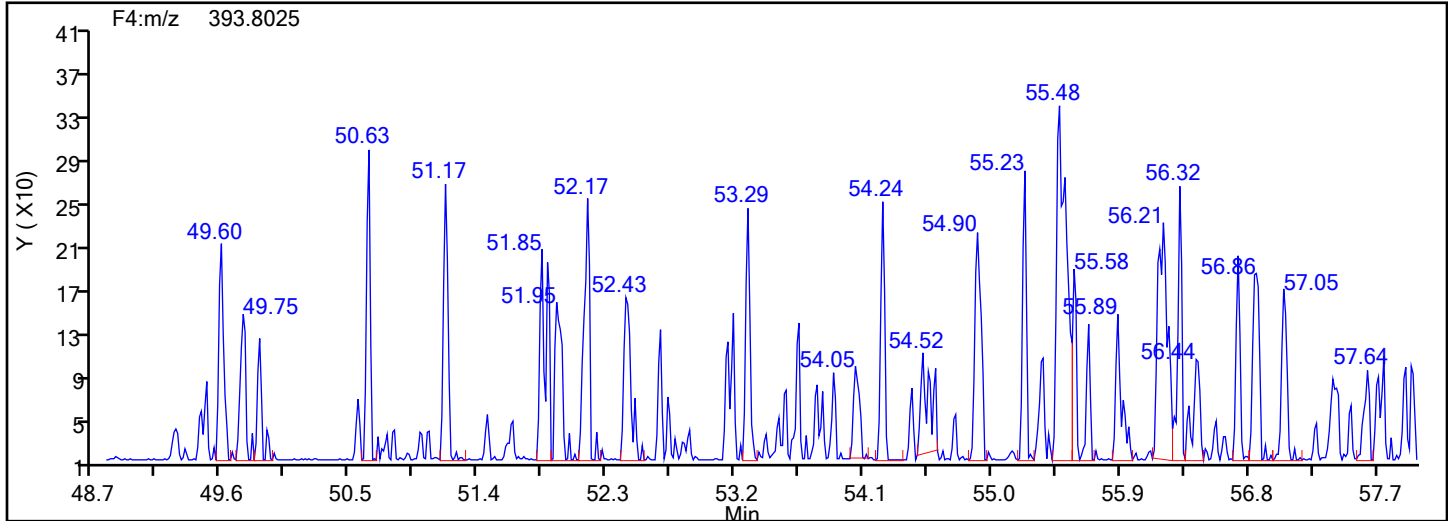


## HpPCB F4 Standards

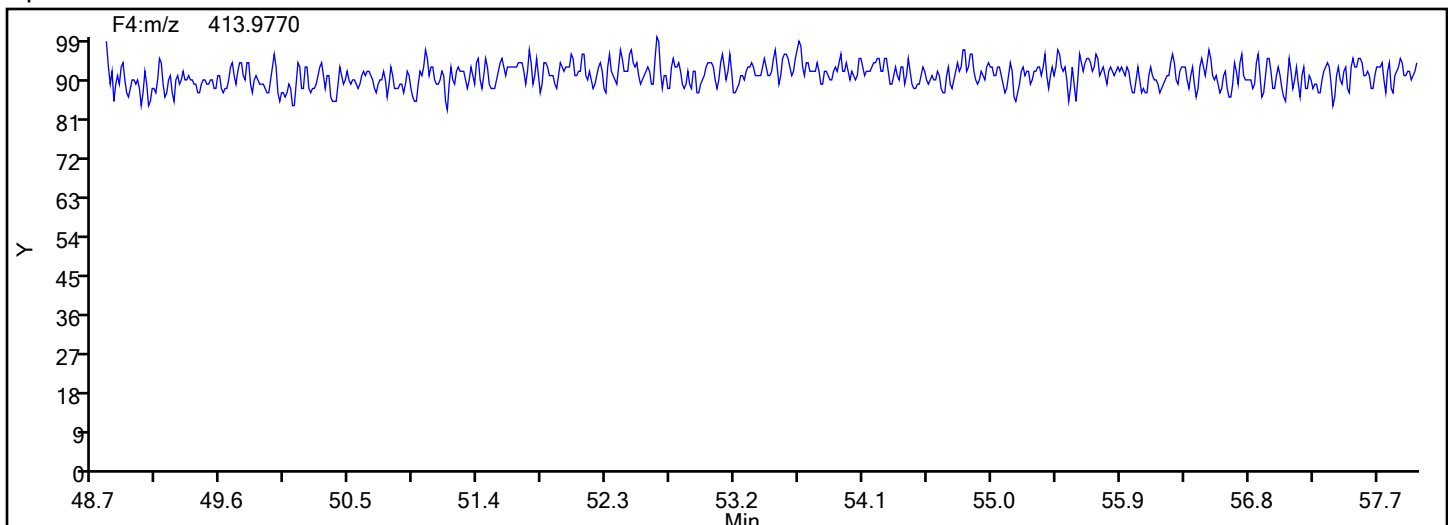


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

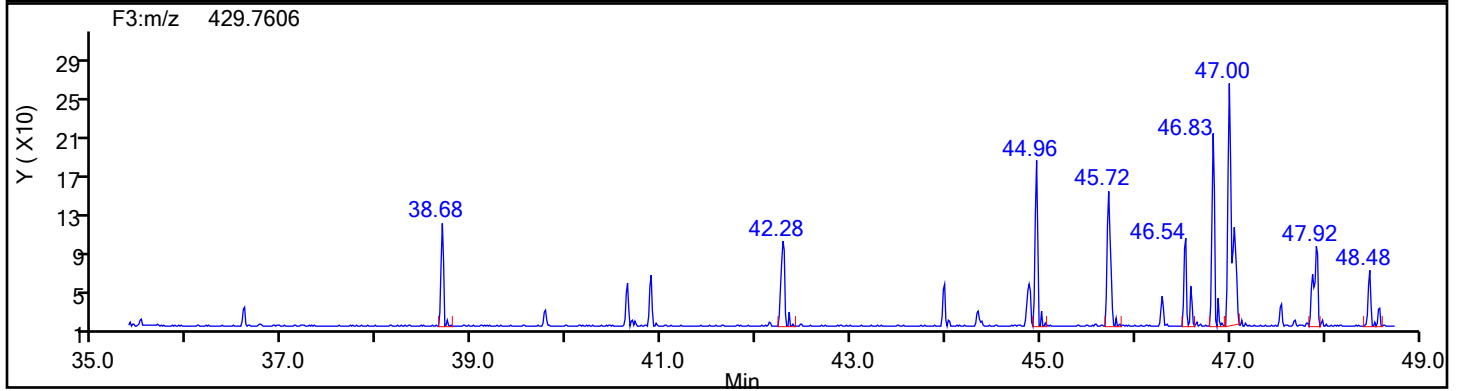
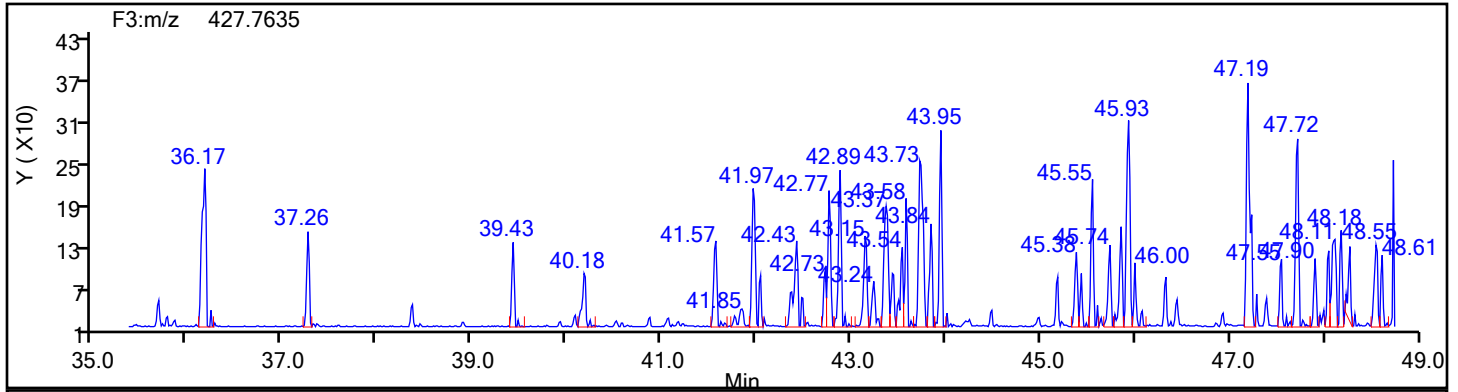


## HpPCB F4 Lock Mass

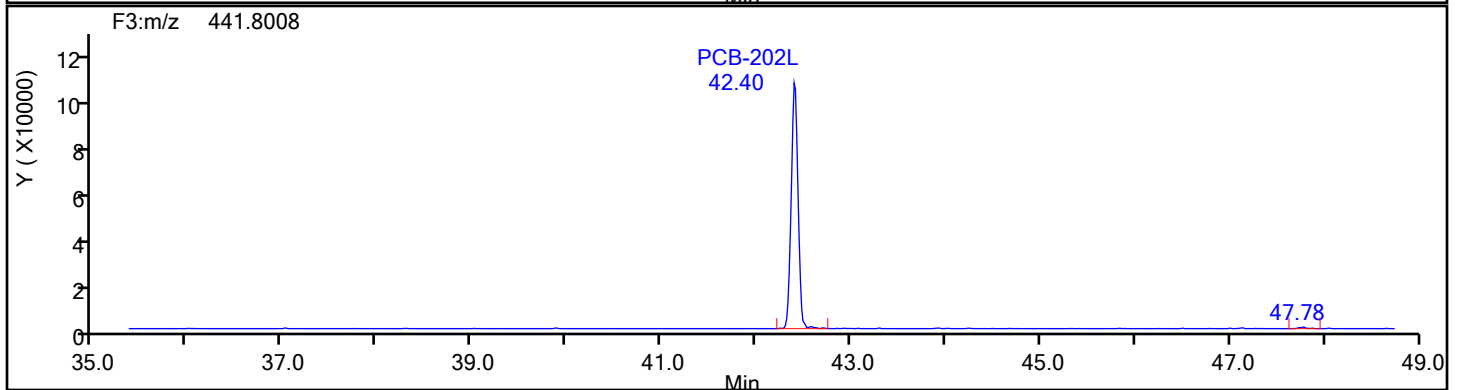
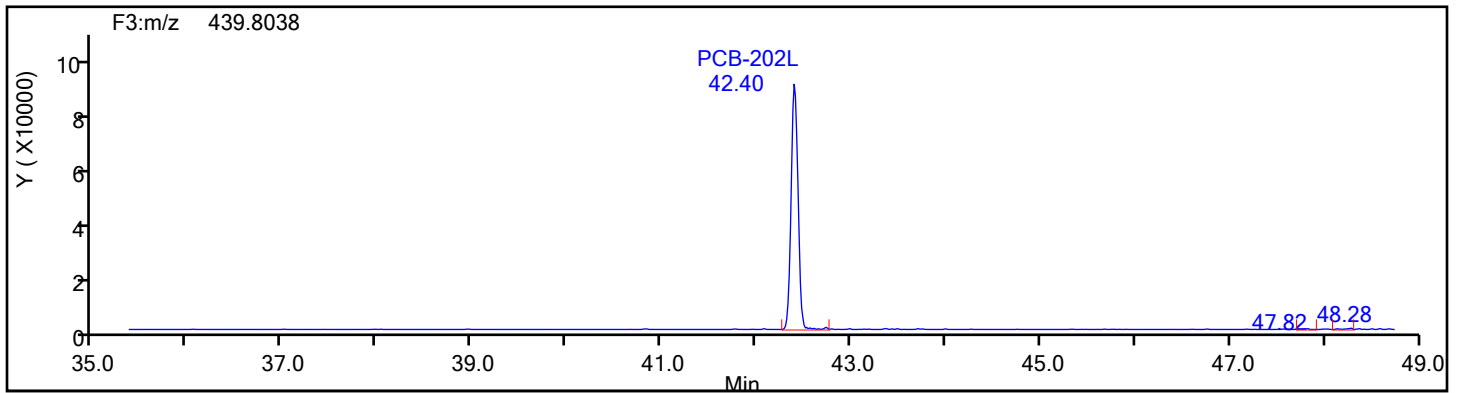


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

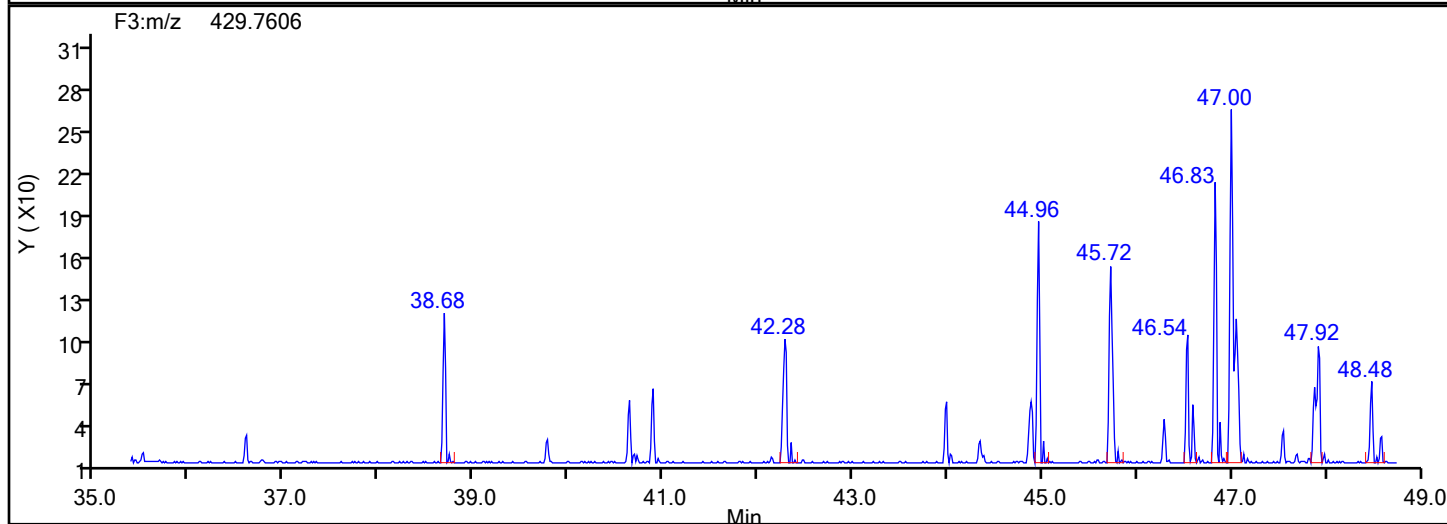
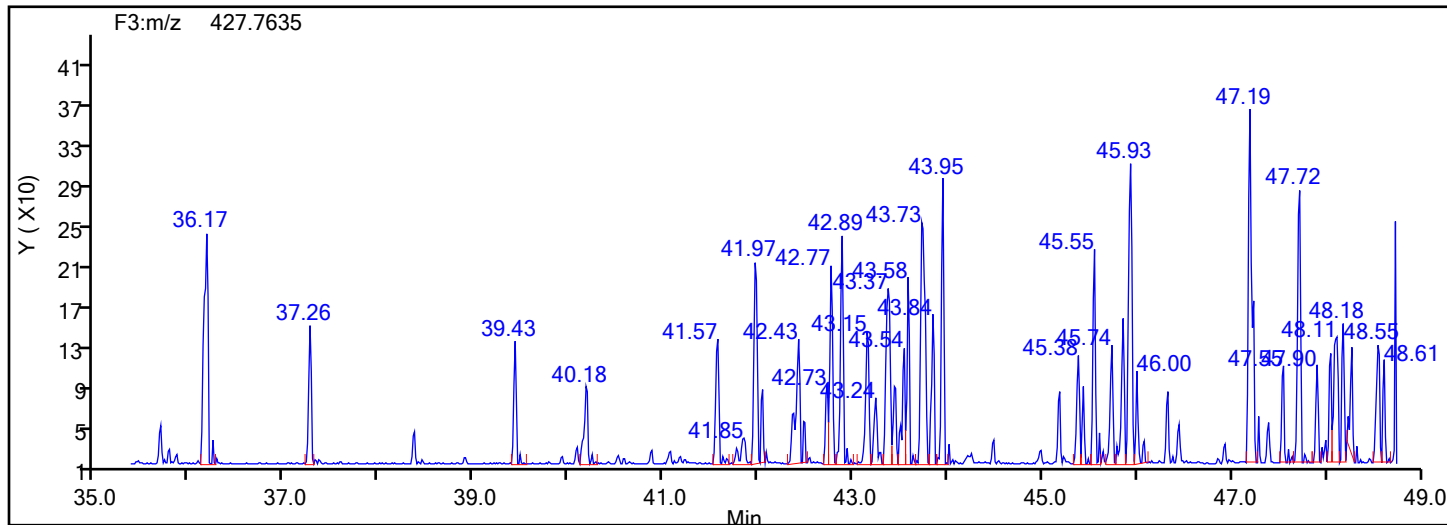


## OcPCB F3 Standards

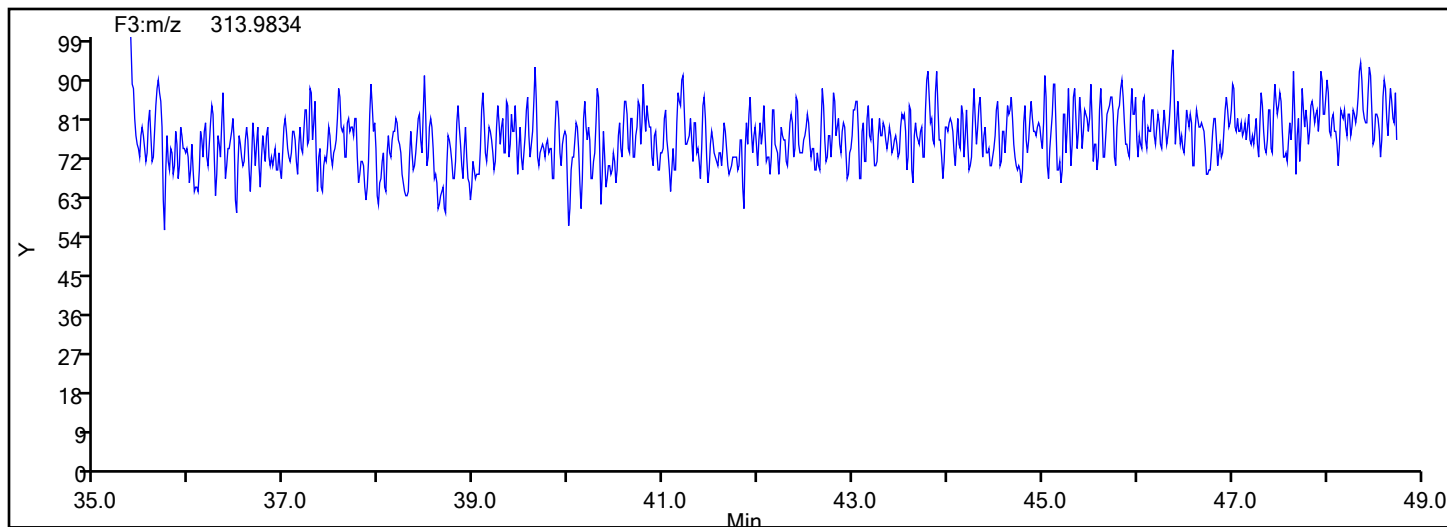


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3



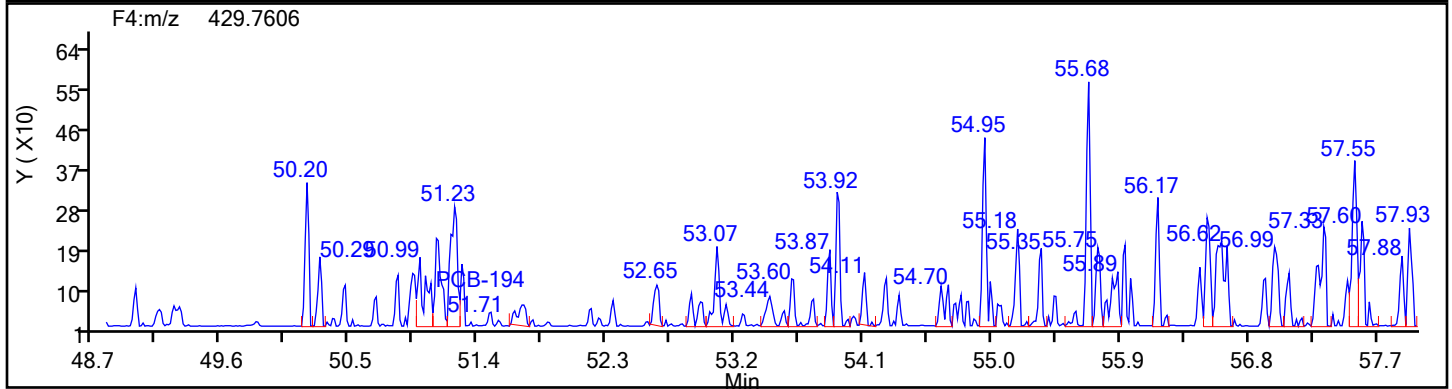
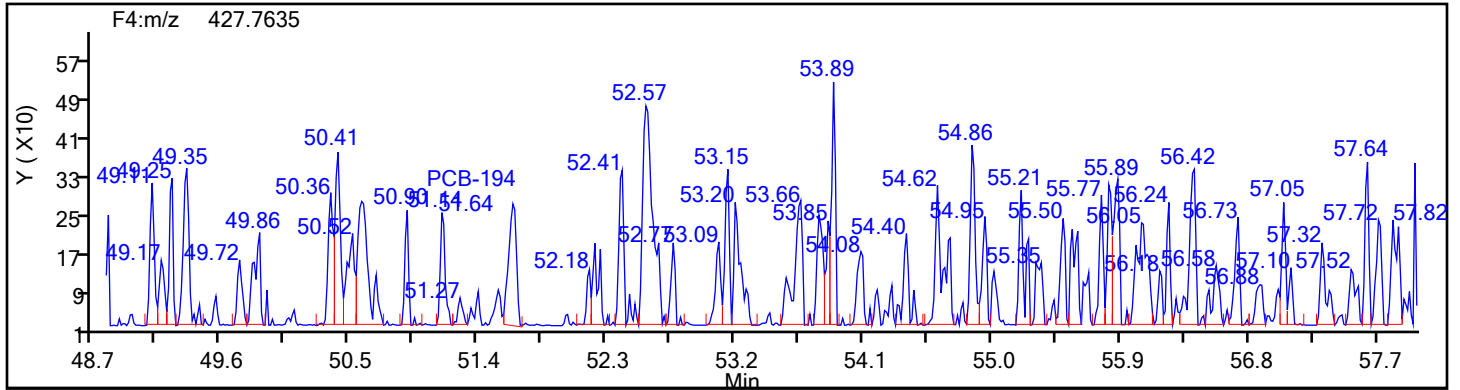
## OcPCB F3 Lock Mass



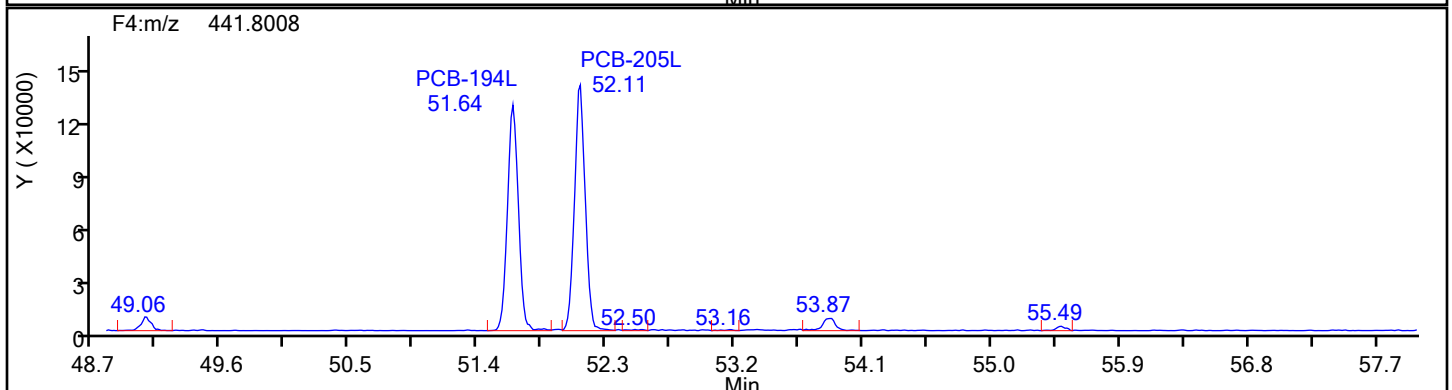
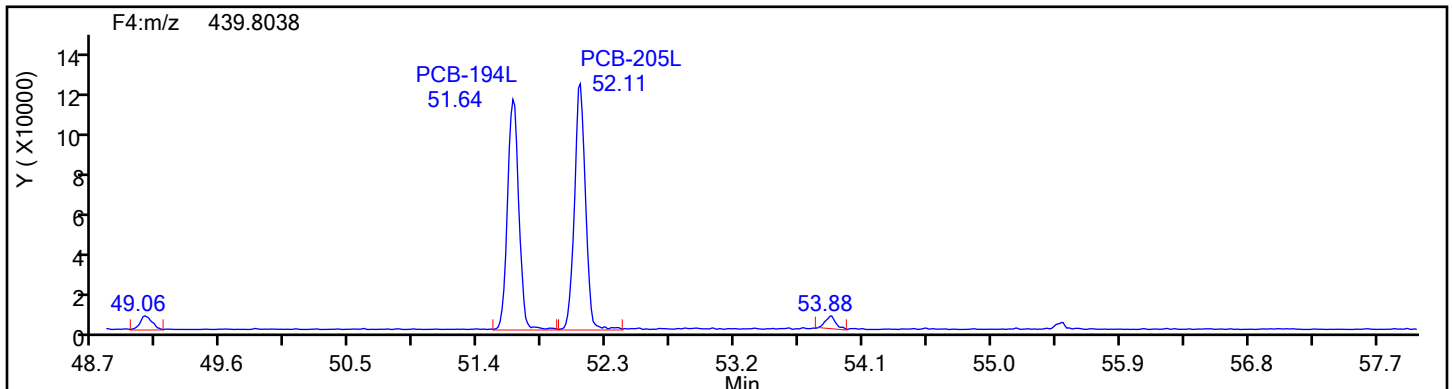


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

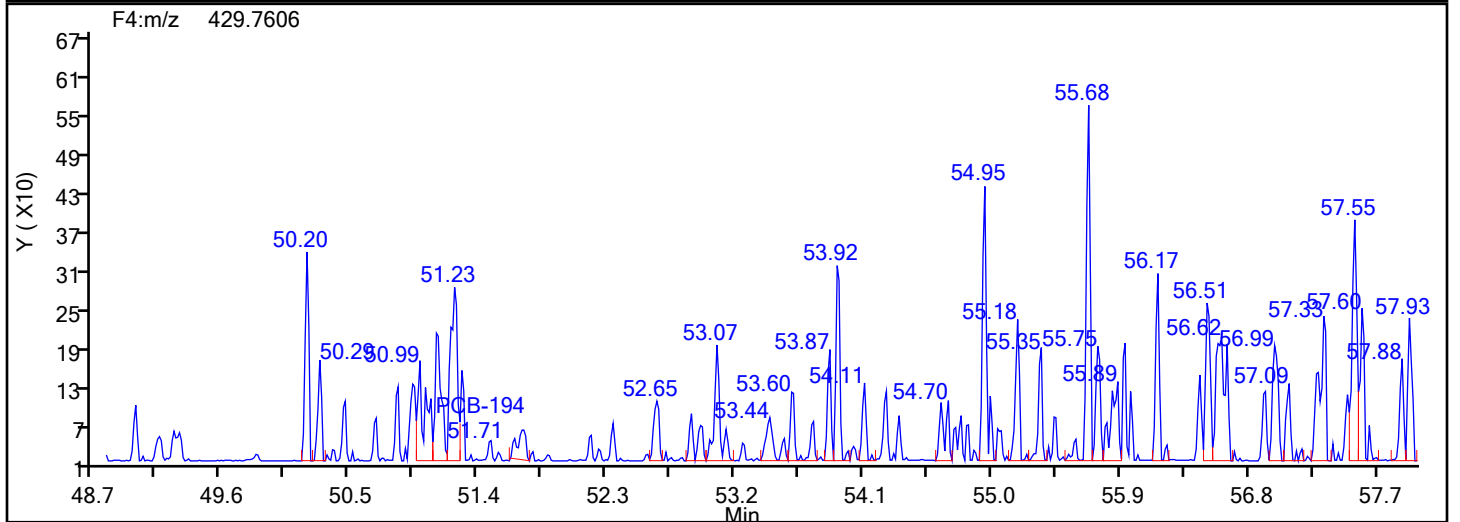
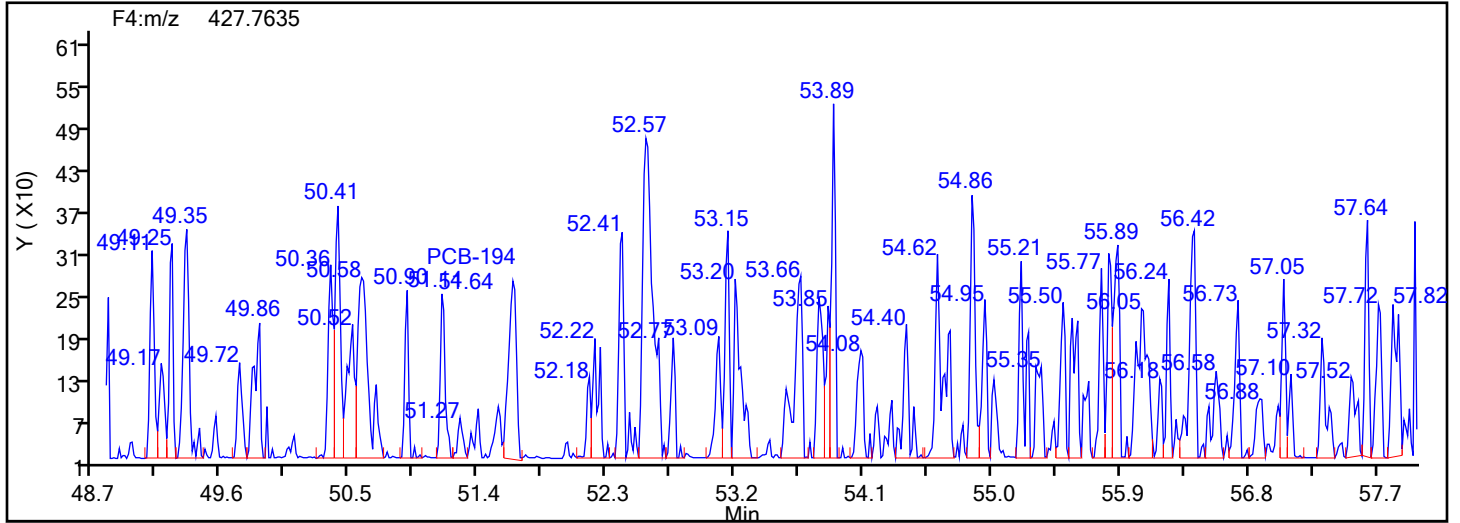


## OcPCB F4 Standards

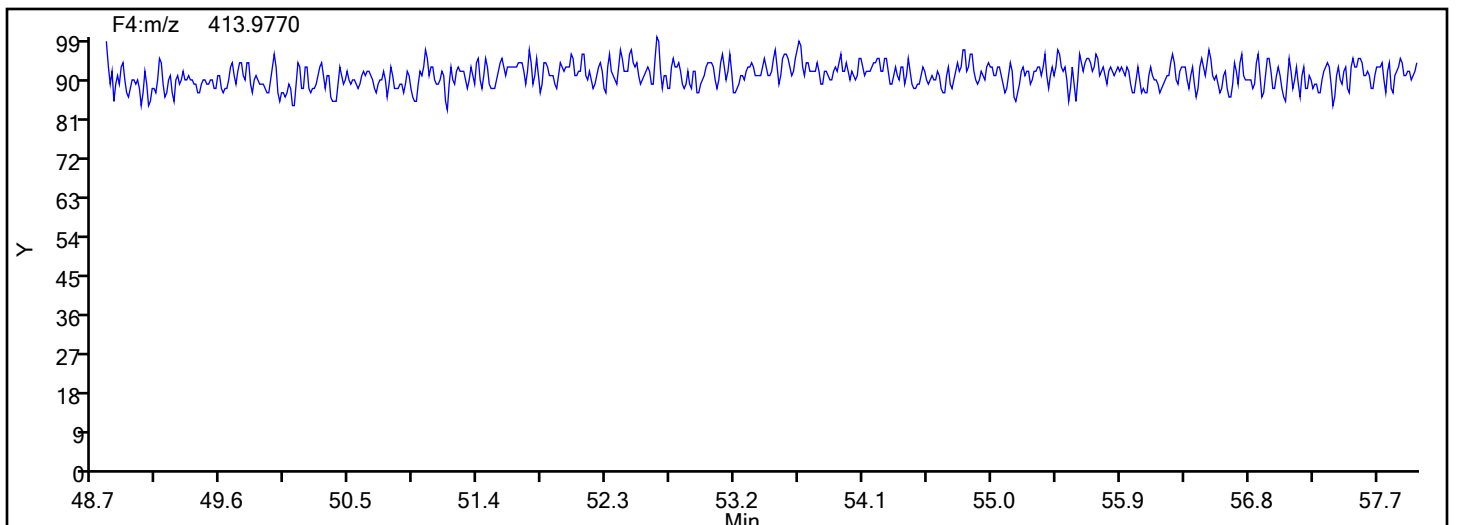


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

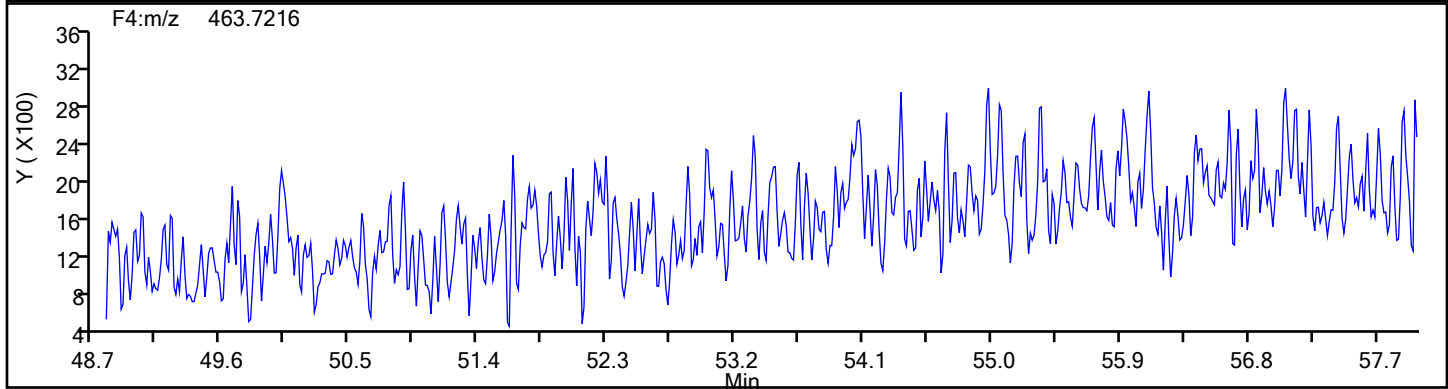
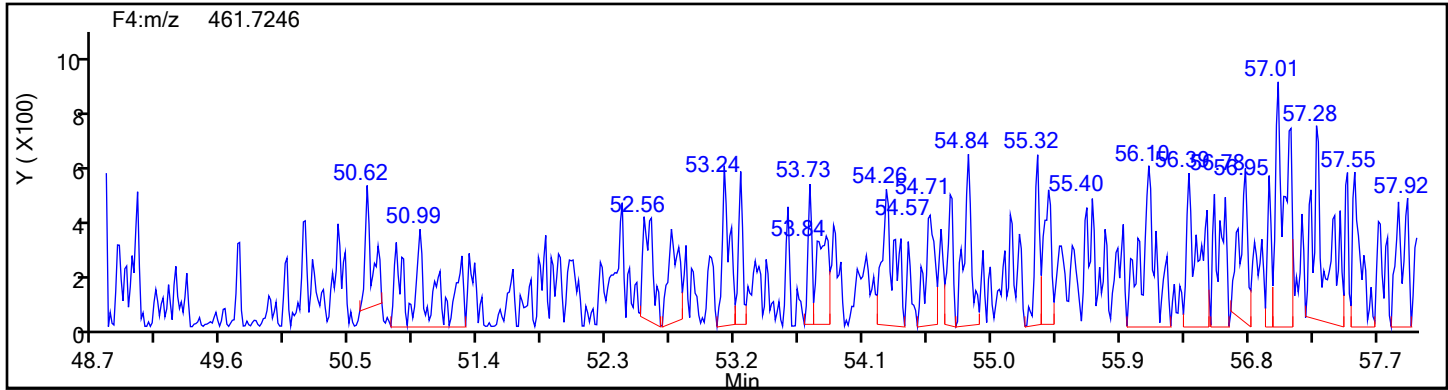


## OcPCB F4 Lock Mass

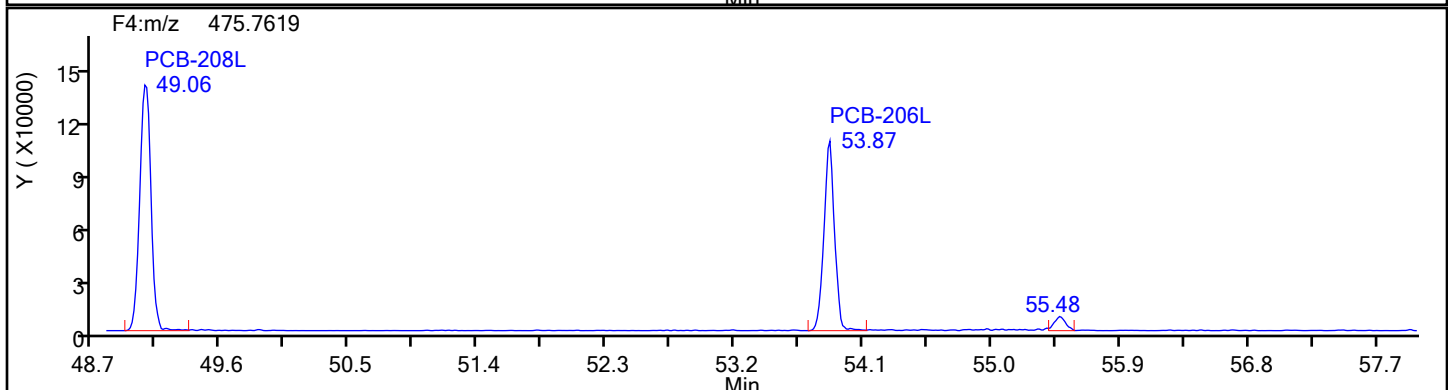
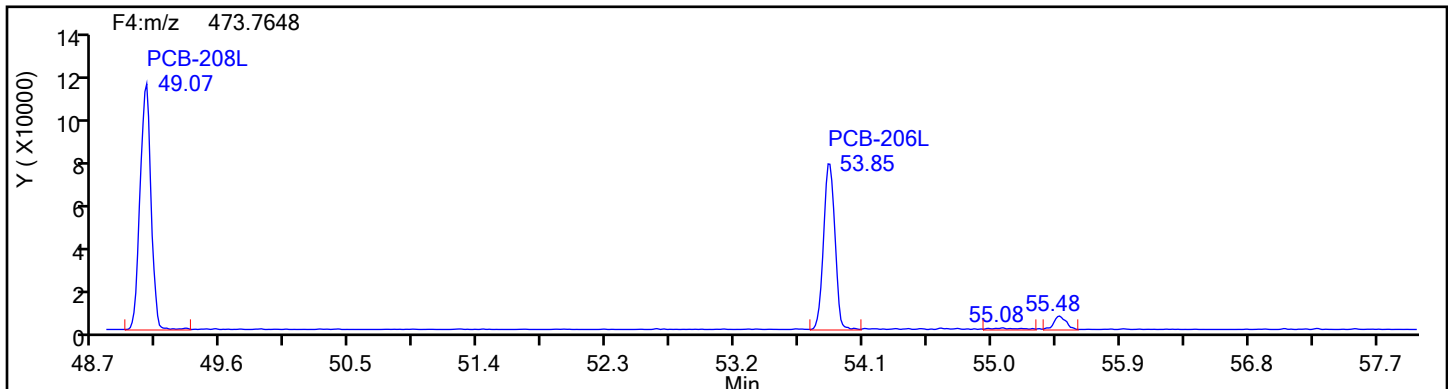


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

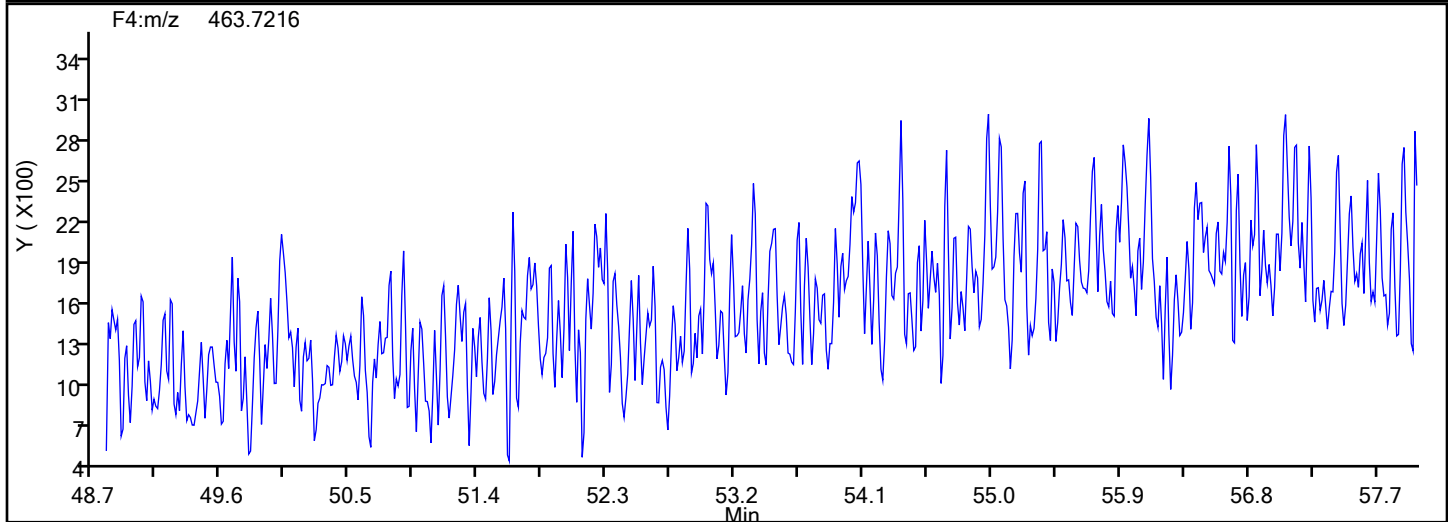
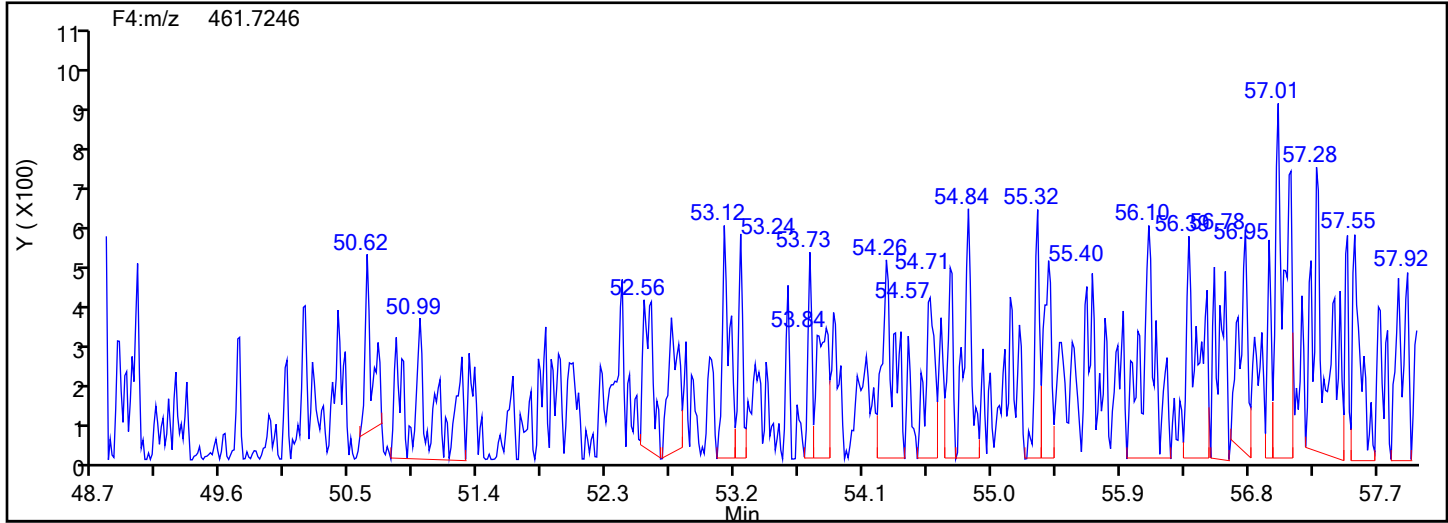


## NoPCB F4 Standards

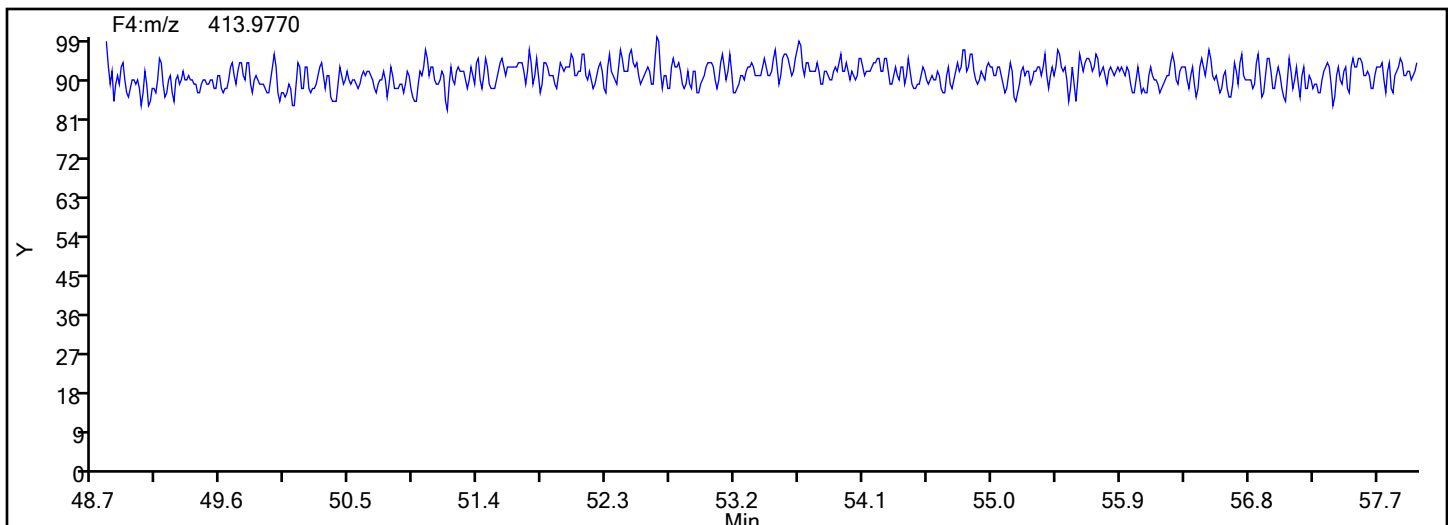


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 17:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

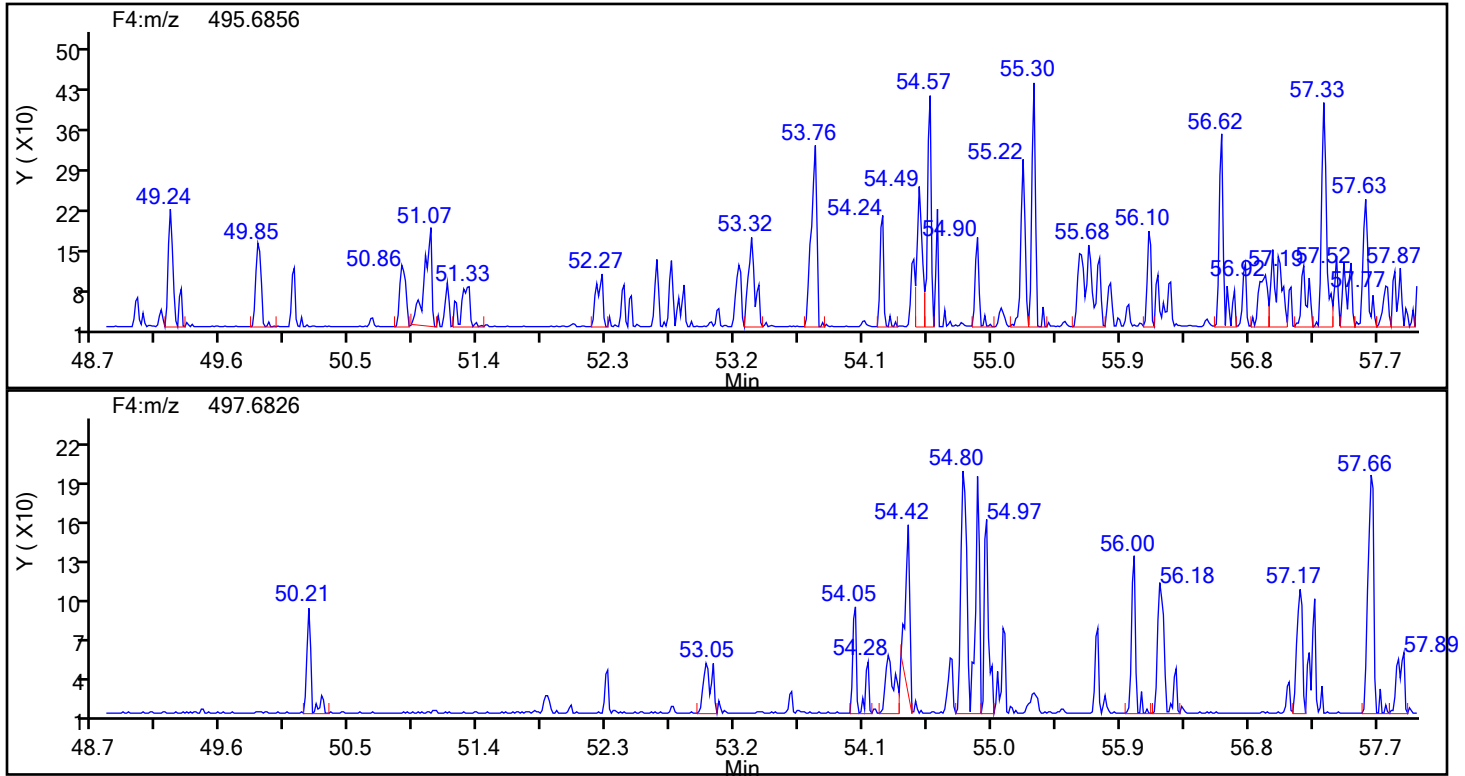


## NoPCB F4 Lock Mass

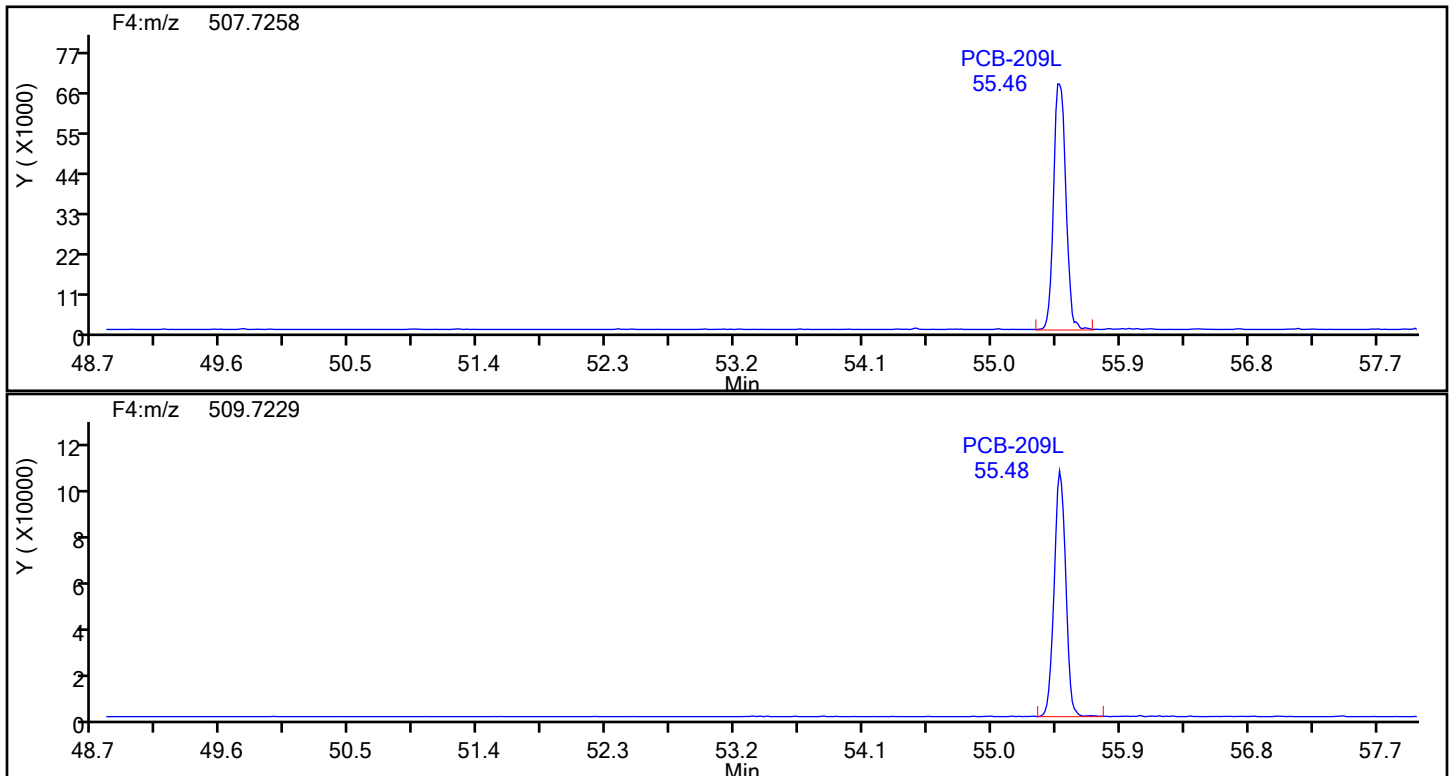


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4

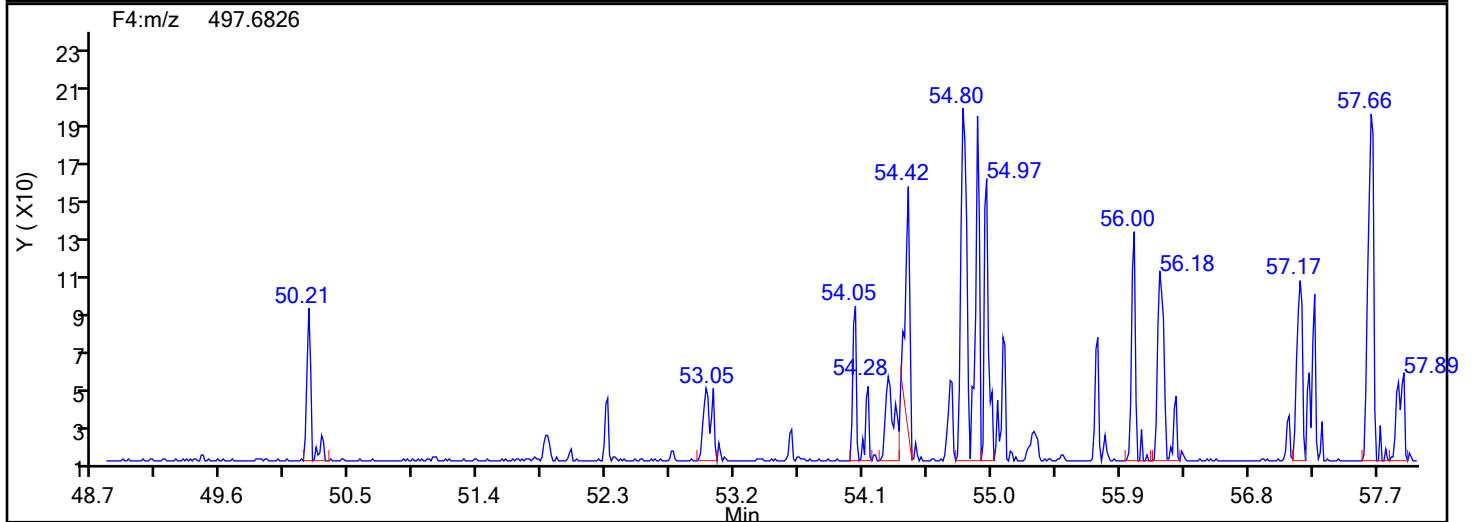
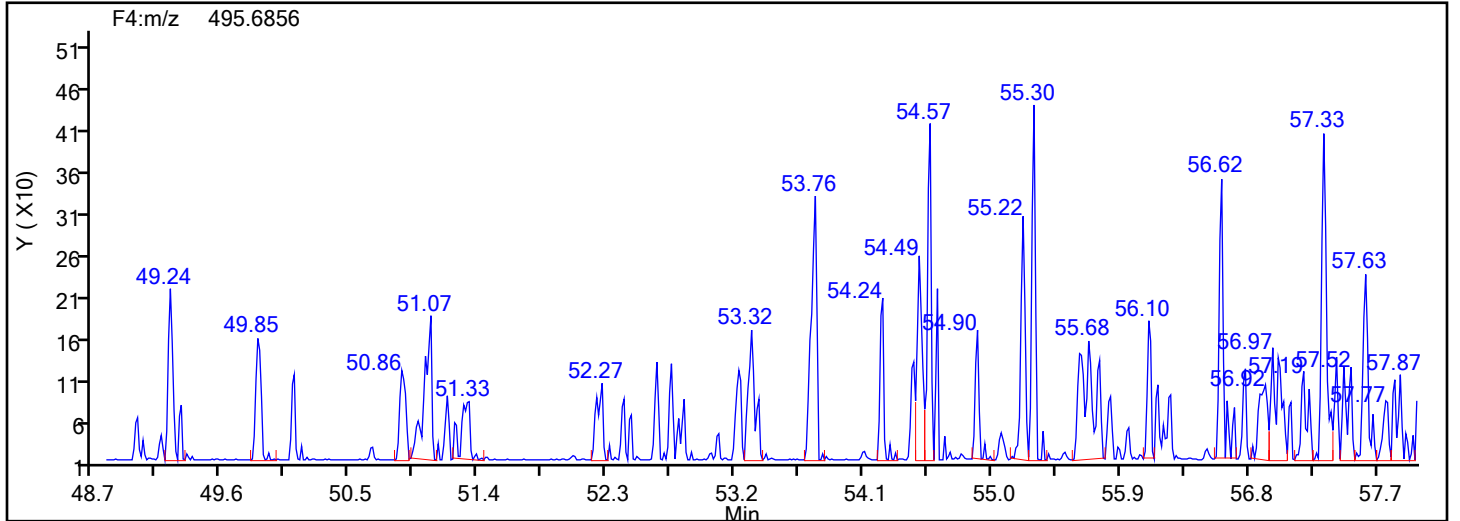


## DePCB F4 Standards

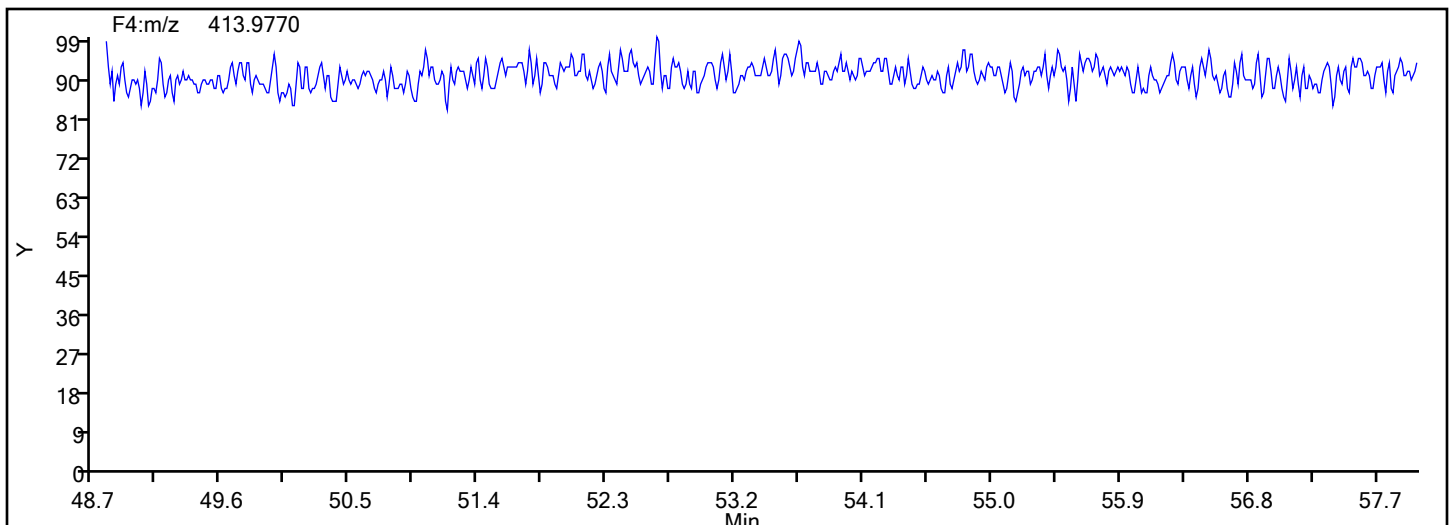


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Worklist#: 88219 Sample Line#: 11  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-7-c5x.d  
Lims ID: 140-36940-A-7-C  
Client ID: M23 - EPN 4-1/IN-701-RUN 7-COMBINED  
Sample Type: Client  
Inject. Date: 28-Jun-2024 17:53:00 ALS Bottle#: 0 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Sample Info:  
Misc. Info.: 140-0033304-011  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 11:47:49 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: P0IK

Date: 29-Jun-2024 11:47:49

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	6.57	98.57
PCB-28L	100.0	15.3	76.46
PCB-79L	33.3	6.65	99.82
PCB-95L	33.3	6.94	104.17
PCB-111L	100.0	17.1	85.65
PCB-153L	33.3	6.03	90.38
PCB-178L	100.0	16.4	81.90

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN</u> <u>4-1/IN-701-FIELD</u> <u>BLANK-COMBINED</u>	Lab Sample ID: <u>140-36940-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-8-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 10:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/29/2024 03:19</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88242</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.0182	J q B	0.600	0.132	0.00454
37680-65-2	PCB-18	ND	C	0.600	0.285	0.00207
7012-37-5	PCB-28	0.0271	J q C20 B	0.600	0.252	0.00386
41464-39-5	PCB-44	0.0652	J C	0.900	0.390	0.0115
35693-99-3	PCB-52	ND		0.300	0.132	0.0122
32598-10-0	PCB-66	ND		0.300	0.120	0.00889
32598-13-3	PCB-77	ND		0.300	0.126	0.0102
70362-50-4	PCB-81	ND		0.300	0.0960	0.0105
37680-73-2	PCB-101	0.0361	J q C90	0.900	0.390	0.00355
32598-14-4	PCB-105	0.0140	J	0.300	0.102	0.00376
74472-37-0	PCB-114	ND		0.300	0.165	0.00402
31508-00-6	PCB-118	0.0140	J q B	0.300	0.183	0.00347
65510-44-3	PCB-123	ND		0.300	0.171	0.00405
57465-28-8	PCB-126	ND		0.300	0.123	0.00406
38380-07-3	PCB-128	ND	C	0.600	0.204	0.00215
35065-28-2	PCB-138	0.0242	J q C129 B	1.20	0.510	0.00223
35065-27-1	PCB-153	0.0148	J q C	0.600	0.249	0.00193
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00238
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00238
52663-72-6	PCB-167	0.00290	J B	0.300	0.180	0.00157
32774-16-6	PCB-169	0.00193	J q B	0.300	0.123	0.00152
35065-30-6	PCB-170	0.00457	J q	0.300	0.132	0.000687
35065-29-3	PCB-180	0.00846	J q C B	0.600	0.204	0.000573
52663-68-0	PCB-187	0.00631	J q	0.300	0.126	0.000607
39635-31-9	PCB-189	ND		0.300	0.147	0.00375
52663-78-2	PCB-195	0.00353	J q	0.300	0.159	0.00277



FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN Lab Sample ID: 140-36940-8  
4-1/IN-701-FIELD  
BLANK-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-8-c.d  
Analysis Method: 23 Date Collected: 05/15/2024 10:00  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/29/2024 03:19  
Con. Extract Vol.: 30(mL) Dilution Factor: 1  
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25(mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88242 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
40186-72-9	PCB-206	ND		0.300	0.171	0.0191
2051-24-3	PCB-209	0.00590	J B	0.300	0.138	0.000545

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>M23 - EPN</u> <u>4-1/IN-701-FIELD</u> <u>BLANK-COMBINED</u>	Lab Sample ID: <u>140-36940-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-8-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 10:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/29/2024 03:19</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88242</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	53		20-145
208263-77-8	PCB-3L	61		20-145
234432-86-1	PCB-4L	62		20-145
208263-67-6	PCB-15L	68		20-145
234432-87-2	PCB-19L	63		20-145
208263-79-0	PCB-37L	69		20-145
234432-88-3	PCB-54L	71		20-145
105600-23-5	PCB-77L	80		20-145
208461-24-9	PCB-81L	78		20-145
234432-89-4	PCB-104L	72		20-145
208263-62-1	PCB-105L	85		20-145
208263-63-2	PCB-114L	80		20-145
104130-40-7	PCB-118L	84		20-145
208263-64-3	PCB-123L	81		20-145
208263-65-4	PCB-126L	88		20-145
234432-90-7	PCB-155L	79		20-145
208263-68-7	PCB-156L	89	C	20-145
235416-30-5	PCB-157L	89	C156	20-145
208263-69-8	PCB-167L	86		20-145
208263-70-1	PCB-169L	89		20-145
160901-80-4	PCB-170L	91		20-145
234432-91-8	PCB-188L	80		20-145
208263-73-4	PCB-189L	88		20-145
105600-26-8	PCB-202L	84		20-145
234446-64-1	PCB-205L	93		20-145
208263-75-6	PCB-206L	94		20-145
234432-92-9	PCB-208L	97		20-145
105600-27-9	PCB-209L	97		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: M23 - EPN Lab Sample ID: 140-36940-8  
4-1/IN-701-FIELD  
BLANK-COMBINED  
Matrix: Air Lab File ID: 140-36940-a-8-c.d  
Analysis Method: 23 Date Collected: 05/15/2024 10:00  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/29/2024 03:19  
Con. Extract Vol.: 30(mL) Dilution Factor: 1  
Injection Volume: 1(uL) GC Column: SPB-Octyl ID: 0.25(mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88242 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	71		20-130
235416-29-2	PCB-111L	81		20-130
232919-67-4	PCB-178L	83		20-130
STL01600	PCB-8L	96		70-130
STL01603	PCB-79L	98		70-130
STL01604	PCB-95L	111		70-130
STL01606	PCB-153L	89		70-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Lims ID: 140-36940-A-8-C  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Sample Type: Client  
Inject. Date: 29-Jun-2024 03:19:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033313-007  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 16:10:15 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: P0IK

Date: 29-Jun-2024 16:10:15

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					0.6584	0.6584	0.0159	0.0159		
D PCB-1L	11:39	9358706	3.16	1.6108	53.4	53.4	0.3202	0.3202	53.39	
D PCB-3L	13:49	10546094	3.12	1.5891	61.0	61.0	0.3246	0.3246	60.99	
PCB-1	11:40	19719	3.08	1.2191	0.1728	0.1728	0.0155	0.0155		
PCB-2	13:38	28612	2.82	1.1805	0.2435	0.2435	0.0162	0.0162		
PCB-3	13:50	31161	3.13	1.2206	0.2421	0.2421	0.0159	0.0159		
S Total Dichlorobiphenyls					1.346	1.336	0.0175	0.0175		RQ
D PCB-4L	14:04	4373654	1.64	0.6475	62.1	62.1	0.1044	0.1044	62.07	
* PCB-9L	16:01	10881156	1.62		100.0	100.0				
\$ PCB-8L	16:52	2379200	1.67	1.2066	32.0	32.0	0.1070	0.1070	95.98	
D PCB-15L	19:57	7952407	1.61	1.0789	67.7	67.7	0.0627	0.0627	67.74	
PCB-4	14:06						0.0215	0.0215		
PCB-10	14:16						0.0183	0.0183		
PCB-9	16:03						0.0169	0.0169		
PCB-7	16:12	7704	1.45	1.4134	0.0884	0.0884	0.0170	0.0170		M
PCB-6	16:28						0.0156	0.0156		
PCB-5	16:46						0.0179	0.0179		
PCB-8	16:52	5928	1.56	1.5889	0.0710	0.0605	0.0151	0.0151		RQM
PCB-14	18:30						0.0171	0.0171		
PCB-11	19:21	94731	1.66	1.2951	1.187	1.187	0.0185	0.0185		
PCB-12	19:39						0.0180	0.0180		U
PCB-13 (C12)	19:39						0.0180	0.0180		U
PCB-15	19:58						0.0165	0.0165		RQU
S Total Trichlorobiphenyls					0.4147	0.3557	0.0115	0.0115		RQ
D PCB-19L	17:10	2795275	1.07	0.6285	63.1	63.1	0.3335	0.3335	63.13	
* PCB-32L	20:24	7044530	1.09		100.0	100.0				
* PCB-31L	22:39	17901885	1.02		100.0	100.0				
\$ PCB-28L	22:57	13371799	1.04	1.0494	71.2	71.2	0.0935	0.0935	71.18	
D PCB-37L	26:57	10788518	1.04	0.8749	68.9	68.9	0.1121	0.1121	68.88	
PCB-19	17:12						0.009520	0.009520		
PCB-18	18:58	274	1.04	1.7652	0.0118	0.005553	0.006908	0.006908		RQ
PCB-30 (C18)	18:58	274	1.04	1.7652	0.0118	0.005553	0.006908	0.006908		RQ
PCB-17	19:27	1959	1.04	1.2430	0.0655	0.0564	0.009811	0.009811		RQ
PCB-27	19:40	1742	0.98	1.8327	0.0340	0.0340	0.006654	0.006654		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:48						0.007269	0.007269		
PCB-16	19:55						0.0108	0.0108		
PCB-32	20:27	3222	1.04	1.8324	0.0765	0.0629	0.006655	0.006655		RQ
PCB-34	21:41						0.0134	0.0134		
PCB-23	21:50						0.0139	0.0139		
PCB-26	22:09						0.0134	0.0134		
PCB-29 (C26)	22:09						0.0134	0.0134		
PCB-25	22:22						0.0118	0.0118		
PCB-31	22:41	8697	1.16	1.1532	0.0699	0.0699	0.0131	0.0131		
PCB-20	22:59	11409	1.04	1.1718	0.1129	0.0902	0.0129	0.0129		RQ
PCB-28 (C20)	22:59	11409	1.04	1.1718	0.1129	0.0902	0.0129	0.0129		RQ
PCB-21	23:13	4261	1.04	1.0746	0.0442	0.0368	0.0140	0.0140		RQ
PCB-33 (C21)	23:13	4261	1.04	1.0746	0.0442	0.0368	0.0140	0.0140		RQ
PCB-22	23:37						0.0126	0.0126		
PCB-36	25:09						0.0136	0.0136		
PCB-39	25:31						0.0130	0.0130		
PCB-38	26:05						0.0139	0.0139		
PCB-35	26:34						0.0133	0.0133		
PCB-37	26:59						0.0132	0.0132		
S Total Tetrachlorobiphenyls					0.2174	0.2174	0.0339	0.0339		
D PCB-54L	20:15	2785979	0.79	0.5562	71.1	71.1	0.0504	0.0504	71.10	
* PCB-52L	24:47	9858972	0.80		100.0	100.0				
\$ PCB-79L	32:41	3284520	0.80	1.0018	32.7	32.7	0.2790	0.2790	98.04	
D PCB-81L	33:41	9591563	0.81	1.2470	78.0	78.0	0.1911	0.1911	78.02	
D PCB-77L	34:16	10472819	0.81	1.3212	80.4	80.4	0.1803	0.1803	80.40	
PCB-54	20:16						0.003011	0.003011		
PCB-50	22:26						0.0435	0.0435		
PCB-53 (C50)	22:26						0.0435	0.0435		
PCB-45	23:10						0.0451	0.0451		
PCB-51 (C45)	23:10						0.0451	0.0451		
PCB-46	23:24						0.0525	0.0525		
PCB-52	24:49						0.0406	0.0406		
PCB-43	24:57						0.0361	0.0361		
PCB-73 (C43)	24:57						0.0361	0.0361		
PCB-49	25:14						0.0349	0.0349		
PCB-69 (C49)	25:14						0.0349	0.0349		
PCB-48	25:35						0.0444	0.0444		
PCB-44	25:48	21227	0.75	0.9731	0.2174	0.2174	0.0383	0.0383		M
PCB-47 (C44)	25:48	21227	0.75	0.9731	0.2174	0.2174	0.0383	0.0383		M
PCB-65 (C44)	25:48	21227	0.75	0.9731	0.2174	0.2174	0.0383	0.0383		M
PCB-59	26:08						0.0315	0.0315		
PCB-62 (C59)	26:08						0.0315	0.0315		
PCB-75 (C59)	26:08						0.0315	0.0315		
PCB-42	26:20						0.0461	0.0461		
PCB-40	26:50						0.0421	0.0421		
PCB-41 (C40)	26:50						0.0421	0.0421		
PCB-71 (C40)	26:50						0.0421	0.0421		
PCB-64	27:02						0.0317	0.0317		
PCB-72	27:52						0.0341	0.0341		
PCB-68	28:09						0.0298	0.0298		
PCB-57	28:34						0.0345	0.0345		
PCB-58	28:49						0.0281	0.0281		
PCB-67	28:59						0.0262	0.0262		
PCB-63	29:14						0.0332	0.0332		
PCB-61	29:35						0.0296	0.0296		
PCB-70 (C61)	29:35						0.0296	0.0296		
PCB-74 (C61)	29:35						0.0296	0.0296		
PCB-76 (C61)	29:35						0.0296	0.0296		
PCB-66	29:54						0.0296	0.0296		
PCB-55	30:04						0.0282	0.0282		
PCB-56	30:34						0.0302	0.0302		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:47						0.0332	0.0332		
PCB-80	31:10						0.0282	0.0282		
PCB-79	32:42						0.0260	0.0260		
PCB-78	33:16						0.0321	0.0321		
PCB-81	33:42						0.0350	0.0350		
PCB-77	34:16						0.0340	0.0340		
S Total Pentachlorobiphenyls					0.6308	0.4906	0.0123	0.0123		RQ
D PCB-104L	25:43	5727539	1.58	1.2161	72.3	72.3	0.0380	0.0380	72.32	
\$ PCB-95L	28:41	1525336	1.57	0.7218	36.9	36.9	0.0658	0.0658	111	
* PCB-101L	31:36	6512185	1.59		100.0	100.0				
\$ PCB-111L	34:17	7217657	1.60	1.3699	80.9	80.9	0.0337	0.0337	80.91	
D PCB-123L	36:14	9574049	1.57	0.9731	81.2	81.2	0.9685	0.9685	81.25	
D PCB-118L	36:34	10262881	1.58	1.0102	83.9	83.9	0.9330	0.9330	83.90	
D PCB-114L	37:05	9678480	1.59	0.9949	80.3	80.3	0.9474	0.9474	80.34	
D PCB-105L	37:45	9762538	1.60	0.9514	84.7	84.7	0.991	0.991	84.74	
* PCB-127L	39:13	12108820	1.58		100.0	100.0				
D PCB-126L	40:50	10085799	1.59	0.9439	88.2	88.2	0.999	0.999	88.25	
PCB-104	25:45						0.0112	0.0112		
PCB-96	26:08						0.0103	0.0103		
PCB-103	28:02						0.0129	0.0129		
PCB-94	28:16						0.0148	0.0148		
PCB-95	28:42	3603	1.71	0.8033	0.0783	0.0783	0.0141	0.0141		M
PCB-93	28:55						0.0134	0.0134		
PCB-100 (C93)	28:55						0.0134	0.0134		
PCB-98	29:04						0.0137	0.0137		
PCB-102 (C98)	29:04						0.0137	0.0137		
PCB-88	29:34						0.0141	0.0141		
PCB-91 (C88)	29:34						0.0141	0.0141		
PCB-84	29:48	823	1.55	0.7299	0.0479	0.0197	0.0155	0.0155		RQ
PCB-89	30:17						0.0145	0.0145		
PCB-121	30:40						0.008712	0.008712		
PCB-92	31:03						0.0132	0.0132		
PCB-90	31:37	6573	1.55	0.9550	0.1566	0.1202	0.0118	0.0118		RQ
PCB-101 (C90)	31:37	6573	1.55	0.9550	0.1566	0.1202	0.0118	0.0118		RQ
PCB-113 (C90)	31:37	6573	1.55	0.9550	0.1566	0.1202	0.0118	0.0118		RQ
PCB-83	32:17						0.0135	0.0135		U
PCB-99 (C83)	32:17						0.0135	0.0135		U
PCB-112	32:17						0.008004	0.008004		U
PCB-86	32:44	3144	1.55	1.0473	0.0808	0.0524	0.0108	0.0108		RQM
PCB-87 (C86)	32:44	3144	1.55	1.0473	0.0808	0.0524	0.0108	0.0108		RQM
PCB-97 (C86)	32:44	3144	1.55	1.0473	0.0808	0.0524	0.0108	0.0108		RQM
PCB-109 (C86)	32:44	3144	1.55	1.0473	0.0808	0.0524	0.0108	0.0108		RQM
PCB-119 (C86)	32:44	3144	1.55	1.0473	0.0808	0.0524	0.0108	0.0108		RQM
PCB-125 (C86)	32:44	3144	1.55	1.0473	0.0808	0.0524	0.0108	0.0108		RQM
PCB-85	33:23	1892	1.55	1.0408	0.0589	0.0317	0.0109	0.0109		RQM
PCB-116 (C85)	33:23	1892	1.55	1.0408	0.0589	0.0317	0.0109	0.0109		RQM
PCB-117 (C85)	33:23	1892	1.55	1.0408	0.0589	0.0317	0.0109	0.0109		RQM
PCB-110	33:36	6461	1.55	1.1919	0.1048	0.0946	0.009476	0.009476		RQM
PCB-115 (C110)	33:36	6461	1.55	1.1919	0.1048	0.0946	0.009476	0.009476		RQM
PCB-82	33:56						0.0136	0.0136		
PCB-111	34:18						0.009315	0.009315		
PCB-120	34:45						0.007651	0.007651		
PCB-108	35:54						0.0127	0.0127		
PCB-124 (C108)	35:54						0.0127	0.0127		
PCB-107	36:09						0.0120	0.0120		
PCB-123	36:15						0.0135	0.0135		
PCB-106	36:22						0.0134	0.0134		
PCB-118	36:36	5793	1.55	1.2055	0.0569	0.0468	0.0116	0.0116		RQ
PCB-122	36:56						0.0152	0.0152		
PCB-114	37:06						0.0134	0.0134		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:46	5425	1.77	1.1879	0.0468	0.0468	0.0125	0.0125		
PCB-127	39:13						0.0128	0.0128		
PCB-126	40:51						0.0135	0.0135		
S Total Hexachlorobiphenyls					0.3215	0.2527	0.006898	0.006898		RQ
D PCB-155L	31:22	5599629	1.27	1.0851	79.2	79.2	0.0478	0.0478	79.24	
\$ PCB-153L	38:26	2667536	1.28	0.9169	29.5	29.5	0.4421	0.4421	88.57	
* PCB-138L	39:41	9063040	1.30		100.0	100.0				
D PCB-167L	42:40	9833119	1.28	1.2572	86.3	86.3	0.2878	0.2878	86.30	
D PCB-156L	43:50	19571780	1.28	1.2106	178.4	178.4	0.2989	0.2989	89.19	
D PCB-157L (C156L)	43:50	19571780	1.28	1.2106	178.4	178.4	0.2989	0.2989	89.19	
D PCB-169L	47:04	10011365	1.28	1.2439	88.8	88.8	0.2909	0.2909	88.81	
PCB-155	31:23						0.005128	0.005128		
PCB-152	31:36						0.004895	0.004895		
PCB-150	31:46						0.004780	0.004780		
PCB-136	32:08						0.004788	0.004788		
PCB-145	32:26						0.005001	0.005001		
PCB-148	33:55						0.006370	0.006370		
PCB-135	34:30	638	1.24	0.7256	0.0260	0.0157	0.006675	0.006675		RQ
PCB-151 (C135)	34:30	638	1.24	0.7256	0.0260	0.0157	0.006675	0.006675		RQ
PCB-154	34:46						0.005958	0.005958		
PCB-144	35:05						0.006168	0.006168		
PCB-147	35:27	3370	1.24	0.8950	0.0520	0.0382	0.007856	0.007856		RQM
PCB-149 (C147)	35:27	3370	1.24	0.8950	0.0520	0.0382	0.007856	0.007856		RQM
PCB-134	35:47						0.008826	0.008826		RQU
PCB-143 (C134)	35:47						0.008826	0.008826		RQU
PCB-139	36:02						0.008019	0.008019		
PCB-140 (C139)	36:02						0.008019	0.008019		
PCB-131	36:14						0.009372	0.009372		
PCB-142	36:25	1512	1.24	0.7507	0.0247	0.0204	0.009366	0.009366		RQM
PCB-132	36:43						0.009388	0.009388		
PCB-133	37:12						0.008685	0.008685		
PCB-165	37:36						0.006862	0.006862		
PCB-146	37:51						0.007296	0.007296		
PCB-161	37:58						0.006229	0.006229		
PCB-153	38:28	5323	1.24	1.0938	0.0677	0.0494	0.006429	0.006429		RQM
PCB-168 (C153)	38:28	5323	1.24	1.0938	0.0677	0.0494	0.006429	0.006429		RQM
PCB-141	38:41	2220	1.16	0.8755	0.0257	0.0257	0.008031	0.008031		M
PCB-130	39:04						0.0100	0.0100		
PCB-137	39:16						0.009053	0.009053		
PCB-164	39:24						0.006772	0.006772		
PCB-129	39:42	7535	1.24	0.9464	0.0912	0.0808	0.007430	0.007430		RQM
PCB-138 (C129)	39:42	7535	1.24	0.9464	0.0912	0.0808	0.007430	0.007430		RQM
PCB-160 (C129)	39:42	7535	1.24	0.9464	0.0912	0.0808	0.007430	0.007430		RQM
PCB-163 (C129)	39:42	7535	1.24	0.9464	0.0912	0.0808	0.007430	0.007430		RQM
PCB-158	40:07	822	1.24	1.3110	0.0171	0.006363	0.005363	0.005363		RQM
PCB-128	40:56						0.007153	0.007153		
PCB-166 (C128)	40:56						0.007153	0.007153		
PCB-159	41:56						0.005074	0.005074		
PCB-162	42:12						0.005593	0.005593		RQU
PCB-167	42:43	1059	1.35	1.1159	0.009651	0.009651	0.005223	0.005223		M
PCB-156	43:52						0.007918	0.007918		
PCB-157 (C156)	43:52						0.007918	0.007918		
PCB-169	47:08	748	1.24	1.1628	0.007568	0.006425	0.005064	0.005064		RQM
S Total Heptachlorobiphenyls					0.2527	0.1950	0.002543	0.002543		RQ
D PCB-188L	37:05	7201275	1.06	1.3133	79.5	79.5	0.0137	0.0137	79.54	
\$ PCB-178L	40:08	5924793	1.06	1.0313	83.3	83.3	0.0175	0.0175	83.34	
* PCB-180L	45:13	6893556	1.06		100.0	100.0				
D PCB-170L	46:29	5274110	1.09	0.8362	91.5	91.5	0.0216	0.0216	91.49	
D PCB-189L	49:35	12032119	1.05	1.4414	87.9	87.9	0.4016	0.4016	87.92	
PCB-188	37:06						0.001665	0.001665		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:27						0.001562	0.001562		
PCB-184	37:58	848	1.11	1.3672	0.0099	0.0099	0.001630	0.001630		
PCB-176	38:20						0.001808	0.001808		
PCB-186	38:45						0.001513	0.001513		RQU
PCB-178	40:12	902	1.05	0.8946	0.0193	0.0162	0.002492	0.002492		RQ
PCB-175	40:47						0.002341	0.002341		
PCB-187	41:07	1445	1.05	1.1018	0.0311	0.0210	0.002023	0.002023		RQM
PCB-182	41:15						0.002411	0.002411		
PCB-183	41:40	2531	1.05	0.9825	0.0601	0.0413	0.002269	0.002269		RQM
PCB-185 (C183)	41:40	2531	1.05	0.9825	0.0601	0.0413	0.002269	0.002269		RQM
PCB-174	41:56	1469	1.05	0.9642	0.0298	0.0244	0.002312	0.002312		RQM
PCB-177	42:23	1235	1.05	0.9773	0.0296	0.0203	0.002281	0.002281		RQ
PCB-181	42:44						0.002345	0.002345		
PCB-171	42:57						0.002388	0.002388		
PCB-173 (C171)	42:57						0.002388	0.002388		
PCB-172	44:35						0.002617	0.002617		
PCB-192	44:52	889	0.98	1.3459	0.0106	0.0106	0.001656	0.001656		M
PCB-180	45:14	2054	1.05	1.1676	0.0340	0.0282	0.001909	0.001909		RQM
PCB-193 (C180)	45:14	2054	1.05	1.1676	0.0340	0.0282	0.001909	0.001909		RQM
PCB-191	45:35						0.001729	0.001729		
PCB-170	46:30	953	1.05	1.1865	0.0165	0.0152	0.002289	0.002289		RQ
PCB-190	47:00	653	1.05	1.3322	0.0118	0.007858	0.001673	0.001673		RQ
PCB-189	49:35						0.0125	0.0125		
S Total Octachlorobiphenyls					0.1706	0.0945	0.004923	0.004923		RQ
D PCB-202L	42:27	5664850	0.90	0.9818	83.7	83.7	0.0230	0.0230	83.70	
* PCB-194L	51:41	9493921	0.91		100.0	100.0				
D PCB-205L	52:09	10436960	0.91	1.1786	93.3	93.3	0.0604	0.0604	93.28	
PCB-202	42:27						0.003491	0.003491		
PCB-201	43:22						0.003707	0.003707		
PCB-204	44:03						0.003449	0.003449		
PCB-197	44:16						0.003156	0.003156		
PCB-200	44:24						0.003590	0.003590		
PCB-198	47:10	810	0.89	0.8698	0.0382	0.0164	0.004157	0.004157		RQ
PCB-199 (C198)	47:10	810	0.89	0.8698	0.0382	0.0164	0.004157	0.004157		RQ
PCB-196	47:52	1495	0.89	0.7806	0.0462	0.0338	0.004632	0.004632		RQ
PCB-203	48:01	1707	0.89	0.9292	0.0575	0.0324	0.003892	0.003892		RQ
PCB-195	49:24	1016	0.89	0.8263	0.0287	0.0118	0.009229	0.009229		RQM
PCB-194	51:42						0.007834	0.007834		
PCB-205	52:10						0.007011	0.007011		
S Total Nonachlorobiphenyls							0.0637	0.0637		
D PCB-208L	49:06	8807353	0.81	0.9576	96.9	96.9	0.1486	0.1486	96.88	
D PCB-206L	53:54	6210971	0.81	0.6947	94.2	94.2	0.2049	0.2049	94.17	
PCB-208	49:08						0.0525	0.0525		
PCB-207	50:03						0.0510	0.0510		
PCB-206	53:55						0.0637	0.0637		
D PCB-209L	55:31	6118975	0.71	0.6669	96.6	96.6	0.0414	0.0414	96.65	
DCB Decachlorobiphenyl	55:32	1325	0.70	1.1004	0.0197	0.0197	0.001816	0.001816		Ma
S Polychlorinated biphenyls, Total					3.374	0.0197	0.0172	0.0172		RQ

### QC Flag Legend

#### Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.



Review Flags

CHROM REVISION: 2.0

U - Marked Undetected

a - User Assigned ID

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Lims ID: 140-36940-A-8-C  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Sample Type: Client  
Inject. Date: 29-Jun-2024 03:19:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033313-007  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 16:10:15 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: P0IK

Date: 29-Jun-2024 16:10:15

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:39	11:39	-1	0.728	7107206	2752197	2914	7285	944		
202.0766	11:39	11:39	-1	0.728	2251500	876036	3760	9400	233	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:49	13:48	-1	0.862	7987063	2693873	2914	7285	924		
202.0766	13:49	13:48	-1	0.862	2559031	840366	3760	9400	224	3.12(2.66-3.60)	
PCB-1											
188.0393	11:40	11:39	-1	1.001	14884	4572	114	285	40		
190.0363	11:40	11:39	-1	1.001	4835	1668	161	402	10	3.08(2.66-3.60)	
PCB-2											
188.0393	13:38	13:39	-2	0.988	21122	6978	114	285	61		
190.0363	13:39	13:39	-1	0.989	7490	2384	161	402	15	2.82(2.66-3.60)	
PCB-3											
188.0393	13:50	13:49	-1	1.001	23620	7703	114	285	68		
190.0363	13:50	13:49	-1	1.001	7541	2157	161	402	13	3.13(2.66-3.60)	
PCB-4L											
234.0406	14:04	14:03	-2	0.878	2718444	917813	738	1845	1244		
236.0376	14:04	14:03	-2	0.878	1655210	559554	137	342	4084	1.64(1.33-1.79)	
PCB-9L											
234.0406	16:01	16:02	-1		6723984	2007595	738	1845	2720		
236.0376	16:01	16:02	-1		4157172	1227223	137	342	8958	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:52	16:50	-1	1.199	1488411	411482	738	1845	558		
236.0376	16:52	16:50	-1	1.199	890789	243891	137	342	1780	1.67(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:57	19:54	0	1.245	4903289	1179928	738	1845	1599		
236.0376	19:57	19:54	0	1.245	3049118	731455	137	342	5339	1.61(1.33-1.79)	
PCB-4											
222.0003	14:04						64	160			
223.9974	14:04						99	247			
PCB-10											
222.0003	14:15						64	160			
223.9974	14:15						99	247			
PCB-9											
222.0003	16:02						64	160			
223.9974	16:02						99	247			
PCB-7											
222.0003	16:12	16:12	-1	1.152	4555	1229	64	160	19		M
223.9974	16:13	16:12	0	1.153	3149	863	99	247	9	1.45(1.33-1.79)	M
PCB-6											
222.0003	16:25						64	160			
223.9974	16:25						99	247			
PCB-5											
222.0003	16:43						64	160			
223.9974	16:43						99	247			
PCB-8											
222.0003	16:52	16:52	-1	1.200	4636	1321	64	160	21		RQM
	Empc Correction				3612	1243	64	160	19		M
223.9974	16:53	16:52	-1	1.201	2316	797	99	247	8	2.00(1.33-1.79)	
PCB-14											
222.0003	18:30						64	160			
223.9974	18:30						99	247			
PCB-11											
222.0003	19:21	19:18	0	0.970	59099	14303	64	160	223		
223.9974	19:21	19:18	0	0.970	35632	8000	99	247	81	1.66(1.33-1.79)	
PCB-12											
222.0003	19:36						64	160			U
223.9974	19:36						99	247			
PCB-13 (C12)											
222.0003	19:36						64	160			U
223.9974	19:36						99	247			
PCB-15											
222.0003	19:55						64	160			RQU
223.9974	19:55						99	247			
PCB-19L											
268.0016	17:10	17:09	-1	0.841	1444660	399434	724	1810	552		
269.9986	17:10	17:09	-1	0.841	1350615	379595	773	1932	491	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:24	0		3673081	933594	724	1810	1289		
269.9986	20:24	20:24	0		3371449	851668	773	1932	1102	1.09(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:39	22:40	0		9061352	2135665	859	2147	2486		
269.9986	22:39	22:40	0		8840533	2079284	795	1987	2615	1.02(0.88-1.20)	
PCB-28L											
268.0016	22:57	22:55	0	1.013	6819949	1548526	859	2147	1803		
269.9986	22:57	22:55	0	1.013	6551850	1485019	795	1987	1868	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:57	26:55	0	1.190	5512362	1080463	859	2147	1258		
269.9986	26:57	26:55	0	1.190	5276156	1021951	795	1987	1285	1.04(0.88-1.20)	
PCB-19											
255.9613	17:11						10	25			
257.9584	17:11						28	70			
PCB-18											
255.9613	18:58	18:58	-2	1.105	140	46	10	25	5		RQ
257.9584	18:53	18:58	-7	1.100	441	120	28	70	4	0.32(0.88-1.20)	
	Empc Correction				134	44	28	70	2		
PCB-30 (C18)											
255.9613	18:58	18:58	-2	1.105	140	46	10	25	5		RQ
257.9584	18:53	18:58	-7	1.100	441	120	28	70	4	0.32(0.88-1.20)	
	Empc Correction				134	44	28	70	2		
PCB-17											
255.9613	19:27	19:25	-1	1.133	999	277	10	25	28		RQ
257.9584	19:28	19:25	0	1.134	1276	570	28	70	20	0.78(0.88-1.20)	
	Empc Correction				960	266	28	70	10		
PCB-27											
255.9613	19:40	19:38	-1	1.146	860	352	10	25	35		
257.9584	19:42	19:38	1	1.148	882	230	28	70	8	0.98(0.88-1.20)	
PCB-24											
255.9613	19:46						10	25			
257.9584	19:46						28	70			
PCB-16											
255.9613	19:53						10	25			
257.9584	19:53						28	70			
PCB-32											
255.9613	20:27	20:23	1	1.191	1643	579	10	25	58		RQ
257.9584	20:26	20:23	0	1.191	2275	634	28	70	23	0.72(0.88-1.20)	
	Empc Correction				1579	556	28	70	20		
PCB-34											
255.9613	21:40						59	147			
257.9584	21:40						68	170			
PCB-23											
255.9613	21:49						59	147			
257.9584	21:49						68	170			
PCB-26											
255.9613	22:06						59	147			
257.9584	22:06						68	170			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											
255.9613	22:06						59	147			
257.9584	22:06						68	170			
PCB-25											
255.9613	22:21						59	147			
257.9584	22:21						68	170			
PCB-31											
255.9613	22:41	22:40	0	0.842	4666	1320	59	147	22		
257.9584	22:42	22:40	1	0.842	4031	1129	68	170	17	1.16(0.88-1.20)	
PCB-20											
255.9613	22:59	22:58	-1	0.852	8677	1573	59	147	27		RQ
	Empc Correction				5816	1536	59	147	26		
257.9584	22:57	22:58	-3	0.851	5593	1477	68	170	22	1.55(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:59	22:58	-1	0.852	8677	1573	59	147	27		RQ
	Empc Correction				5816	1536	59	147	26		
257.9584	22:57	22:58	-3	0.851	5593	1477	68	170	22	1.55(0.88-1.20)	
PCB-21											
255.9613	23:13	23:08	4	0.861	3037	733	59	147	12		RQ
	Empc Correction				2172	727	59	147	12		
257.9584	23:12	23:08	3	0.861	2089	700	68	170	10	1.45(0.88-1.20)	
PCB-33 (C21)											
255.9613	23:13	23:08	4	0.861	3037	733	59	147	12		RQ
	Empc Correction				2172	727	59	147	12		
257.9584	23:12	23:08	3	0.861	2089	700	68	170	10	1.45(0.88-1.20)	
PCB-22											
255.9613	23:37						59	147			
257.9584	23:37						68	170			
PCB-36											
255.9613	25:09						59	147			
257.9584	25:09						68	170			
PCB-39											
255.9613	25:31						59	147			
257.9584	25:31						68	170			
PCB-38											
255.9613	26:05						59	147			
257.9584	26:05						68	170			
PCB-35											
255.9613	26:34						59	147			
257.9584	26:34						68	170			
PCB-37											
255.9613	26:57						59	147			
257.9584	26:57						68	170			
PCB-54L											
301.9626	20:15	20:14	0	0.817	1232531	317380	192	480	1653		
303.9597	20:15	20:14	0	0.817	1553448	386884	8	20	48361	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-52L											
301.9626	24:47	24:47	0		4381318	1000240	704	1760	1421		
303.9597	24:47	24:47	0		5477654	1254596	1445	3612	868	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:40	1	0.970	1459048	285771	704	1760	406		
303.9597	32:41	32:40	1	0.970	1825472	352274	1445	3612	244	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:41	33:39	1	1.360	4295945	847572	704	1760	1204		
303.9597	33:41	33:39	1	1.360	5295618	1050104	1445	3612	727	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:16	34:14	1	1.383	4697983	869596	704	1760	1235		
303.9597	34:16	34:14	1	1.383	5774836	1076610	1445	3612	745	0.81(0.65-0.89)	
PCB-54											
289.9224	20:16						6	15			
291.9194	20:16						5	12			
PCB-50											
289.9224	22:26						41	102			
291.9194	22:26						246	615			
PCB-53 (C50)											
289.9224	22:26						41	102			
291.9194	22:26						246	615			
PCB-45											
289.9224	23:07						41	102			
291.9194	23:07						246	615			
PCB-51 (C45)											
289.9224	23:07						41	102			
291.9194	23:07						246	615			
PCB-46											
289.9224	23:24						41	102			
291.9194	23:24						246	615			
PCB-52											
289.9224	24:46						41	102			
291.9194	24:46						246	615			
PCB-43											
289.9224	24:57						41	102			
291.9194	24:57						246	615			
PCB-73 (C43)											
289.9224	24:57						41	102			
291.9194	24:57						246	615			
PCB-49											
289.9224	25:11						41	102			
291.9194	25:11						246	615			
PCB-69 (C49)											
289.9224	25:11						41	102			
291.9194	25:11						246	615			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-48											
289.9224	25:35						41	102			
291.9194	25:35						246	615			
PCB-44											
289.9224	25:48	25:50	-1	1.274	9096	2153	41	102	53		M
291.9194	25:50	25:50	1	1.276	12131	2247	246	615	9	0.75(0.65-0.89)	M
PCB-47 (C44)											
289.9224	25:48	25:50	-1	1.274	9096	2153	41	102	53		M
291.9194	25:50	25:50	1	1.276	12131	2247	246	615	9	0.75(0.65-0.89)	M
PCB-65 (C44)											
289.9224	25:48	25:50	-1	1.274	9096	2153	41	102	53		M
291.9194	25:50	25:50	1	1.276	12131	2247	246	615	9	0.75(0.65-0.89)	M
PCB-59											
289.9224	26:08						41	102			
291.9194	26:08						246	615			
PCB-62 (C59)											
289.9224	26:08						41	102			
291.9194	26:08						246	615			
PCB-75 (C59)											
289.9224	26:08						41	102			
291.9194	26:08						246	615			
PCB-42											
289.9224	26:17						41	102			
291.9194	26:17						246	615			
PCB-40											
289.9224	26:47						41	102			
291.9194	26:47						246	615			
PCB-41 (C40)											
289.9224	26:47						41	102			
291.9194	26:47						246	615			
PCB-71 (C40)											
289.9224	26:47						41	102			
291.9194	26:47						246	615			
PCB-64											
289.9224	26:59						41	102			
291.9194	26:59						246	615			
PCB-72											
289.9224	27:52						41	102			
291.9194	27:52						246	615			
PCB-68											
289.9224	28:08						41	102			
291.9194	28:08						246	615			
PCB-57											
289.9224	28:34						41	102			
291.9194	28:34						246	615			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-58											
289.9224	28:49						41	102			
291.9194	28:49						246	615			
PCB-67											
289.9224	28:58						41	102			
291.9194	28:58						246	615			
PCB-63											
289.9224	29:14						41	102			
291.9194	29:14						246	615			
PCB-61											
289.9224	29:34						41	102			
291.9194	29:34						246	615			
PCB-70 (C61)											
289.9224	29:34						41	102			
291.9194	29:34						246	615			
PCB-74 (C61)											
289.9224	29:34						41	102			
291.9194	29:34						246	615			
PCB-76 (C61)											
289.9224	29:34						41	102			
291.9194	29:34						246	615			
PCB-66											
289.9224	29:53						41	102			
291.9194	29:53						246	615			
PCB-55											
289.9224	30:04						41	102			
291.9194	30:04						246	615			
PCB-56											
289.9224	30:34						41	102			
291.9194	30:34						246	615			
PCB-60											
289.9224	30:46						41	102			
291.9194	30:46						246	615			
PCB-80											
289.9224	31:11						41	102			
291.9194	31:11						246	615			
PCB-79											
289.9224	32:42						41	102			
291.9194	32:42						246	615			
PCB-78											
289.9224	33:17						41	102			
291.9194	33:17						246	615			
PCB-81											
289.9224	33:41						41	102			
291.9194	33:41						246	615			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-77											
289.9224	34:15						41	102			
291.9194	34:15						246	615			
PCB-104L											
337.9207	25:43	25:42	0	0.814	3510893	781180	160	400	4882		
339.9178	25:43	25:42	0	0.814	2216646	502655	84	210	5984	1.58(1.32-1.78)	
PCB-95L											
337.9207	28:41	28:40	0	1.116	932101	199627	160	400	1248		
339.9178	28:41	28:40	0	1.116	593235	128248	84	210	1527	1.57(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:36	0		3995889	808818	160	400	5055		
339.9178	31:37	31:36	1		2516296	511673	84	210	6091	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:16	1	1.085	4438507	886638	160	400	5541		
339.9178	34:17	34:16	1	1.085	2779150	552701	84	210	6580	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:14	36:13	0	1.147	5846746	1164935	5274	13185	221		
339.9178	36:14	36:13	0	1.147	3727303	747897	3389	8472	221	1.57(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:32	1	1.157	6282666	1216848	5274	13185	231		
339.9178	36:34	36:32	1	1.157	3980215	770095	3389	8472	227	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:05	37:04	1	1.174	5936667	1176295	5274	13185	223		
339.9178	37:05	37:04	1	1.174	3741813	730348	3389	8472	216	1.59(1.32-1.78)	
PCB-105L											
337.9207	37:45	37:44	0	1.194	6006799	1149538	5274	13185	218		
339.9178	37:45	37:44	0	1.194	3755739	709081	3389	8472	209	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:13	1		7424376	1409804	5274	13185	267		
339.9178	39:12	39:13	0		4684444	888021	3389	8472	262	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:48	1	1.292	6192068	1144480	5274	13185	217		
339.9178	40:50	40:48	1	1.292	3893731	719919	3389	8472	212	1.59(1.32-1.78)	
PCB-104											
325.8804	25:44						48	120			
327.8775	25:44						10	25			
PCB-96											
325.8804	26:07						48	120			
327.8775	26:07						10	25			
PCB-103											
325.8804	28:02						48	120			
327.8775	28:02						10	25			
PCB-94											
325.8804	28:16						48	120			
327.8775	28:16						10	25			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95											M
325.8804	28:42	28:42	0	1.116	2272	492	48	120	10		M
327.8775	28:43	28:42	1	1.117	1331	489	10	25	49	1.71(1.32-1.78)	
PCB-93											
325.8804	28:54						48	120			
327.8775	28:54						10	25			
PCB-100 (C93)											
325.8804	28:54						48	120			
327.8775	28:54						10	25			
PCB-98											
325.8804	29:04						48	120			
327.8775	29:04						10	25			
PCB-102 (C98)											
325.8804	29:04						48	120			
327.8775	29:04						10	25			
PCB-88											
325.8804	29:33						48	120			
327.8775	29:33						10	25			
PCB-91 (C88)											
325.8804	29:33						48	120			
327.8775	29:33						10	25			
PCB-84											RQ
325.8804	29:48	29:47	0	1.159	1678	476	48	120	10		
	Empc Correction				500	213	48	120	4		
327.8775	29:47	29:47	-1	1.159	323	138	10	25	14	5.20(1.32-1.78)	
PCB-89											
325.8804	30:16						48	120			
327.8775	30:16						10	25			
PCB-121											
325.8804	30:39						48	120			
327.8775	30:39						10	25			
PCB-92											
325.8804	31:03						48	120			
327.8775	31:03						10	25			
PCB-90											RQ
325.8804	31:37	31:35	1	1.230	5985	964	48	120	20		
	Empc Correction				3995	981	48	120	20		
327.8775	31:38	31:35	1	1.230	2578	633	10	25	63	2.32(1.32-1.78)	
PCB-101 (C90)											RQ
325.8804	31:37	31:35	1	1.230	5985	964	48	120	20		
	Empc Correction				3995	981	48	120	20		
327.8775	31:38	31:35	1	1.230	2578	633	10	25	63	2.32(1.32-1.78)	
PCB-113 (C90)											RQ
325.8804	31:37	31:35	1	1.230	5985	964	48	120	20		
	Empc Correction				3995	981	48	120	20		
327.8775	31:38	31:35	1	1.230	2578	633	10	25	63	2.32(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-83											U
325.8804	32:10						48	120			
327.8775	32:10						10	25			
PCB-99 (C83)											U
325.8804	32:10						48	120			
327.8775	32:10						10	25			
PCB-112											U
325.8804	32:18						48	120			
327.8775	32:18						10	25			
PCB-86											RQM
325.8804	32:44	32:44	2	1.273	3612	862	48	120	18		M
	Empc Correction				1911	389	48	120	8		
327.8775	32:44	32:44	2	1.273	1233	251	10	25	25	2.93(1.32-1.78)	
PCB-87 (C86)											RQM
325.8804	32:44	32:44	2	1.273	3612	862	48	120	18		M
	Empc Correction				1911	389	48	120	8		
327.8775	32:44	32:44	2	1.273	1233	251	10	25	25	2.93(1.32-1.78)	
PCB-97 (C86)											RQM
325.8804	32:44	32:44	2	1.273	3612	862	48	120	18		M
	Empc Correction				1911	389	48	120	8		
327.8775	32:44	32:44	2	1.273	1233	251	10	25	25	2.93(1.32-1.78)	
PCB-109 (C86)											RQM
325.8804	32:44	32:44	2	1.273	3612	862	48	120	18		M
	Empc Correction				1911	389	48	120	8		
327.8775	32:44	32:44	2	1.273	1233	251	10	25	25	2.93(1.32-1.78)	
PCB-119 (C86)											RQM
325.8804	32:44	32:44	2	1.273	3612	862	48	120	18		M
	Empc Correction				1911	389	48	120	8		
327.8775	32:44	32:44	2	1.273	1233	251	10	25	25	2.93(1.32-1.78)	
PCB-125 (C86)											RQM
325.8804	32:44	32:44	2	1.273	3612	862	48	120	18		M
	Empc Correction				1911	389	48	120	8		
327.8775	32:44	32:44	2	1.273	1233	251	10	25	25	2.93(1.32-1.78)	
PCB-85											RQM
325.8804	33:23	33:21	-2	1.298	2767	522	48	120	11		
	Empc Correction				1150	272	48	120	6		
327.8775	33:21	33:21	-4	1.297	742	176	10	25	18	3.73(1.32-1.78)	M
PCB-116 (C85)											RQM
325.8804	33:23	33:21	-2	1.298	2767	522	48	120	11		
	Empc Correction				1150	272	48	120	6		
327.8775	33:21	33:21	-4	1.297	742	176	10	25	18	3.73(1.32-1.78)	M
PCB-117 (C85)											RQM
325.8804	33:23	33:21	-2	1.298	2767	522	48	120	11		
	Empc Correction				1150	272	48	120	6		
327.8775	33:21	33:21	-4	1.297	742	176	10	25	18	3.73(1.32-1.78)	M
PCB-110											RQM
325.8804	33:36	33:36	-2	1.307	4618	890	48	120	19		M
	Empc Correction				3927	801	48	120	17		
327.8775	33:36	33:36	-2	1.307	2534	517	10	25	52	1.82(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-115 (C110)											RQM
325.8804	33:36	33:36	-2	1.307	4618	890	48	120	19		M
	Empc Correction				3927	801	48	120	17		
327.8775	33:36	33:36	-2	1.307	2534	517	10	25	52	1.82(1.32-1.78)	
PCB-82											
325.8804	33:56						48	120			
327.8775	33:56						10	25			
PCB-111											
325.8804	34:18						48	120			
327.8775	34:18						10	25			
PCB-120											
325.8804	34:45						48	120			
327.8775	34:45						10	25			
PCB-108											
325.8804	35:54						76	190			
327.8775	35:54						35	87			
PCB-124 (C108)											
325.8804	35:54						76	190			
327.8775	35:54						35	87			
PCB-107											
325.8804	36:09						76	190			
327.8775	36:09						35	87			
PCB-123											
325.8804	36:15						76	190			
327.8775	36:15						35	87			
PCB-106											
325.8804	36:22						76	190			
327.8775	36:22						35	87			
PCB-118											RQ
325.8804	36:36	36:34	1	1.001	4772	1260	76	190	17		
	Empc Correction				3521	1272	76	190	17		
327.8775	36:35	36:34	0	1.000	2272	821	35	87	23	2.10(1.32-1.78)	
PCB-122											
325.8804	36:57						76	190			
327.8775	36:57						35	87			
PCB-114											
325.8804	37:07						76	190			
327.8775	37:07						35	87			
PCB-105											
325.8804	37:46	37:44	0	1.000	3464	773	76	190	10		
327.8775	37:48	37:44	2	1.001	1961	468	35	87	13	1.77(1.32-1.78)	
PCB-127											
325.8804	39:13						76	190			
327.8775	39:13						35	87			
PCB-126											
325.8804	40:52						76	190			
327.8775	40:52						35	87			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-155L											
371.8817	31:22	31:21	0	0.790	3129747	656446	200	500	3282		
373.8788	31:22	31:21	0	0.790	2469882	520425	74	185	7033	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:26	38:25	1	0.901	1498891	304910	2362	5905	129		
373.8788	38:26	38:25	1	0.901	1168645	237043	175	437	1355	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		5126357	989849	2362	5905	419		
373.8788	39:42	39:41	1		3936683	762905	175	437	4359	1.30(1.05-1.43)	
PCB-167L											
371.8817	42:40	42:38	1	1.076	5524004	1052169	2362	5905	445		
373.8788	42:40	42:38	1	1.076	4309115	835352	175	437	4773	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:50	43:48	1	1.105	10976001	1385526	2362	5905	587		
373.8788	43:51	43:48	1	1.105	8595779	1116702	175	437	6381	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:50	43:48	1	1.105	10976001	1385526	2362	5905	587		
373.8788	43:51	43:48	1	1.105	8595779	1116702	175	437	6381	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:04	47:01	1	1.186	5627976	1051715	2362	5905	445		
373.8788	47:04	47:01	1	1.186	4383389	816242	175	437	4664	1.28(1.05-1.43)	
PCB-155											
359.8415	31:22						16	40			
361.8385	31:22						7	17			
PCB-152											
359.8415	31:36						16	40			
361.8385	31:36						7	17			
PCB-150											
359.8415	31:45						16	40			
361.8385	31:45						7	17			
PCB-136											
359.8415	32:08						16	40			
361.8385	32:08						7	17			
PCB-145											
359.8415	32:25						16	40			
361.8385	32:25						7	17			
PCB-148											
359.8415	33:55						16	40			
361.8385	33:55						7	17			
PCB-135											
359.8415	34:30	34:29	0	1.100	772	205	16	40	13		RQ
	Empc Correction				353	120	16	40	8		
361.8385	34:36	34:29	6	1.104	285	97	7	17	14	2.71(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:30	34:29	0	1.100	772	205	16	40	13		RQ
	Empc Correction				353	120	16	40	8		
361.8385	34:36	34:29	6	1.104	285	97	7	17	14	2.71(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-154											
359.8415	34:46						16	40			
361.8385	34:46						7	17			
PCB-144											
359.8415	35:05						16	40			
361.8385	35:05						7	17			
PCB-147											
359.8415	35:27	35:27	0	1.130	1866	541	34	85	16		RQM
361.8385	35:27	35:27	0	1.130	2717	643	10	25	64	0.69(1.05-1.43)	M
Empc Correction					1504	436	10	25	44		
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	1866	541	34	85	16		RQM
361.8385	35:27	35:27	0	1.130	2717	643	10	25	64	0.69(1.05-1.43)	M
Empc Correction					1504	436	10	25	44		
PCB-134											
359.8415	35:43						34	85			RQU
361.8385	35:43						10	25			
PCB-143 (C134)											
359.8415	35:43						34	85			RQU
361.8385	35:43						10	25			
PCB-139											
359.8415	36:02						34	85			
361.8385	36:02						10	25			
PCB-140 (C139)											
359.8415	36:02						34	85			
361.8385	36:02						10	25			
PCB-131											
359.8415	36:14						34	85			
361.8385	36:14						10	25			
PCB-142											
359.8415	36:25	36:25	2	1.161	1150	191	34	85	6		RQM
Empc Correction					837	202	34	85	6		M
361.8385	36:28	36:25	5	1.163	675	163	10	25	16	1.70(1.05-1.43)	
PCB-132											
359.8415	36:43						34	85			
361.8385	36:43						10	25			
PCB-133											
359.8415	37:12						34	85			
361.8385	37:12						10	25			
PCB-165											
359.8415	37:36						34	85			
361.8385	37:36						10	25			
PCB-146											
359.8415	37:51						34	85			
361.8385	37:51						10	25			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-161											
359.8415	37:59						34	85			
361.8385	37:59						10	25			
PCB-153											
359.8415	38:28	38:28	0	0.901	2947	490	34	85	14	0.68(1.05-1.43)	RQM
361.8385	38:29	38:28	1	0.902	4352	790	10	25	79		M
Empc Correction				2376	395	10	25	40			
PCB-168 (C153)											
359.8415	38:28	38:28	0	0.901	2947	490	34	85	14	0.68(1.05-1.43)	RQM
361.8385	38:29	38:28	1	0.902	4352	790	10	25	79		M
Empc Correction				2376	395	10	25	40			
PCB-141											
359.8415	38:41	38:40	1	0.906	1193	253	34	85	7		M
361.8385	38:40	38:40	1	0.906	1027	257	10	25	26	1.16(1.05-1.43)	M
PCB-130											
359.8415	39:04						34	85			
361.8385	39:04						10	25			
PCB-137											
359.8415	39:17						34	85			
361.8385	39:17						10	25			
PCB-164											
359.8415	39:25						34	85			
361.8385	39:25						10	25			
PCB-129											
359.8415	39:42	39:42	0	0.930	5138	741	34	85	22		RQM
Empc Correction					4171	701	34	85	21		M
361.8385	39:42	39:42	0	0.930	3364	566	10	25	57	1.53(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:42	39:42	0	0.930	5138	741	34	85	22		RQM
Empc Correction					4171	701	34	85	21		M
361.8385	39:42	39:42	0	0.930	3364	566	10	25	57	1.53(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:42	39:42	0	0.930	5138	741	34	85	22		RQM
Empc Correction					4171	701	34	85	21		M
361.8385	39:42	39:42	0	0.930	3364	566	10	25	57	1.53(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:42	39:42	0	0.930	5138	741	34	85	22		RQM
Empc Correction					4171	701	34	85	21		M
361.8385	39:42	39:42	0	0.930	3364	566	10	25	57	1.53(1.05-1.43)	M
PCB-158											
359.8415	40:07	40:07	1	0.940	1836	457	34	85	13		RQM
Empc Correction					455	198	34	85	6		M
361.8385	40:08	40:07	2	0.940	367	160	10	25	16	5.00(1.05-1.43)	
PCB-128											
359.8415	40:56						34	85			
361.8385	40:56						10	25			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-166 (C128)											
359.8415	40:56						34	85			
361.8385	40:56						10	25			
PCB-159											
359.8415	41:56						34	85			
361.8385	41:56						10	25			
PCB-162											
359.8415	42:12						34	85			RQU
361.8385	42:12						10	25			
PCB-167											
359.8415	42:43	42:43	1	1.001	609	228	34	85	7		M
361.8385	42:44	42:43	2	1.001	450	193	10	25	19	1.35(1.05-1.43)	M
PCB-156											
359.8415	43:52						34	85			
361.8385	43:52						10	25			
PCB-157 (C156)											
359.8415	43:52						34	85			
361.8385	43:52						10	25			
PCB-169											
359.8415	47:08	47:08	3	1.001	547	211	34	85	6		RQM
	Empc Correction				414	214	34	85	6		M
361.8385	47:06	47:08	1	1.001	334	173	10	25	17	1.64(1.05-1.43)	
PCB-188L											
405.8428	37:05	37:04	0	0.820	3702621	737917	80	200	9224		
407.8398	37:05	37:04	0	0.820	3498654	690499	16	40	43156	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:08	40:07	1	0.888	3050461	606281	80	200	7579		
407.8398	40:08	40:07	1	0.888	2874332	570507	16	40	35657	1.06(0.89-1.21)	
PCB-180L											
405.8428	45:13	45:13	0		3553465	689596	80	200	8620		
407.8398	45:13	45:13	0		3340091	639945	16	40	39997	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:29	46:28	1	1.028	2755018	518408	80	200	6480		
407.8398	46:28	46:28	0	1.028	2519092	475606	16	40	29725	1.09(0.89-1.21)	
PCB-189L											
405.8428	49:35	49:34	1	1.097	6149199	1146275	2540	6350	451		
407.8398	49:34	49:34	0	1.096	5882920	1096595	1609	4022	682	1.05(0.89-1.21)	
PCB-188											
393.8025	37:06						1	2			
395.7995	37:06						10	25			
PCB-179											
393.8025	37:26						1	2			
395.7995	37:26						10	25			
PCB-184											
393.8025	37:58	37:57	0	1.024	446	204	1	2	204		
395.7995	37:57	37:57	-1	1.023	402	191	10	25	19	1.11(0.89-1.21)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-176											
393.8025	38:20						1	2			
395.7995	38:20						10	25			
PCB-186											
393.8025	38:47						1	2			RQU
395.7995	38:47						10	25			
PCB-178											
393.8025	40:12	40:08	2	1.084	462	109	1	2	109		RQ
395.7995	40:12	40:08	2	1.084	617	132	10	25	13	0.75(0.89-1.21)	
	Empc Correction				440	103	10	25	10		
PCB-175											
393.8025	40:47						1	2			
395.7995	40:47						10	25			
PCB-187											
393.8025	41:07	41:07	4	1.109	1435	574	1	2	574		RQM
	Empc Correction				740	169	1	2	169		M
395.7995	41:04	41:07	1	1.108	705	161	10	25	16	2.04(0.89-1.21)	
PCB-182											
393.8025	41:15						1	2			
395.7995	41:15						10	25			
PCB-183											
393.8025	41:40	41:42	1	1.124	2447	948	1	2	948		RQM
	Empc Correction				1296	409	1	2	409		
395.7995	41:42	41:42	3	1.125	1235	390	10	25	39	1.98(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:40	41:42	1	1.124	2447	948	1	2	948		RQM
	Empc Correction				1296	409	1	2	409		
395.7995	41:42	41:42	3	1.125	1235	390	10	25	39	1.98(0.89-1.21)	M
PCB-174											
393.8025	41:56	41:57	1	1.131	1077	418	1	2	418		RQM
	Empc Correction				752	242	1	2	242		
395.7995	41:57	41:57	2	1.131	717	231	10	25	23	1.50(0.89-1.21)	M
PCB-177											
393.8025	42:23	42:20	2	1.143	633	198	1	2	198		RQ
395.7995	42:22	42:20	1	1.142	1170	285	10	25	29	0.54(0.89-1.21)	
	Empc Correction				602	188	10	25	19		
PCB-181											
393.8025	42:44						1	2			
395.7995	42:44						10	25			
PCB-171											
393.8025	42:57						1	2			
395.7995	42:57						10	25			
PCB-173 (C171)											
393.8025	42:57						1	2			
395.7995	42:57						10	25			
PCB-172											
393.8025	44:36						1	2			
395.7995	44:36						10	25			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-192											M
393.8025	44:52	44:50	1	0.905	441	154	1	2	154		
395.7995	44:50	44:50	-2	0.904	448	184	10	25	18	0.98(0.89-1.21)	M
PCB-180											RQM
393.8025	45:14	45:14	2	0.912	1471	278	1	2	278		M
	Empc Correction				1052	274	1	2	274		
395.7995	45:09	45:14	-3	0.911	1002	261	10	25	26	1.47(0.89-1.21)	
PCB-193 (C180)											RQM
393.8025	45:14	45:14	2	0.912	1471	278	1	2	278		M
	Empc Correction				1052	274	1	2	274		
395.7995	45:09	45:14	-3	0.911	1002	261	10	25	26	1.47(0.89-1.21)	
PCB-191											
393.8025	45:35						1	2			
395.7995	45:35						10	25			
PCB-170											RQ
393.8025	46:30	46:29	1	0.938	567	272	1	2	272		
	Empc Correction				488	221	1	2	221		
395.7995	46:32	46:29	3	0.939	465	211	10	25	21	1.22(0.89-1.21)	
PCB-190											RQ
393.8025	47:00	46:59	0	0.948	660	229	1	2	229		
	Empc Correction				334	138	1	2	138		
395.7995	47:01	46:59	1	0.948	319	132	10	25	13	2.07(0.89-1.21)	
PCB-189											
393.8025	49:36						86	215			
395.7995	49:36						22	55			
PCB-202L											
439.8038	42:27	42:26	1	0.821	2677747	530883	65	162	8167		
441.8008	42:27	42:26	1	0.821	2987103	575299	55	137	10460	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:41	51:40	1		4536136	855121	210	525	4072		
441.8008	51:41	51:40	1		4957785	936694	300	750	3122	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:09	52:09	1	1.009	4978869	900381	210	525	4288		
441.8008	52:09	52:09	1	1.009	5458091	1000959	300	750	3337	0.91(0.76-1.02)	
PCB-202											
427.7635	42:27						6	15			
429.7606	42:27						10	25			
PCB-201											
427.7635	43:23						6	15			
429.7606	43:23						10	25			
PCB-204											
427.7635	44:02						6	15			
429.7606	44:02						10	25			
PCB-197											
427.7635	44:17						6	15			
429.7606	44:17						10	25			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:25						6	15			
429.7606	44:25						10	25			
PCB-198											
427.7635	47:10	47:09	1	1.111	1451	374	6	15	62		RQ
	Empc Correction				381	100	6	15	17		
429.7606	47:13	47:09	4	1.112	429	113	10	25	11	3.38(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:10	47:09	1	1.111	1451	374	6	15	62		RQ
	Empc Correction				381	100	6	15	17		
429.7606	47:13	47:09	4	1.112	429	113	10	25	11	3.38(0.76-1.02)	
PCB-196											
427.7635	47:52	47:50	1	0.918	704	324	6	15	54		RQ
429.7606	47:50	47:50	0	0.917	1339	425	10	25	43	0.53(0.76-1.02)	
	Empc Correction				791	364	10	25	36		
PCB-203											
427.7635	48:01	48:01	0	0.921	804	186	6	15	31		RQ
429.7606	48:00	48:01	-2	0.920	2222	576	10	25	58	0.36(0.76-1.02)	
	Empc Correction				903	208	10	25	21		
PCB-195											
427.7635	49:24	49:24	2	0.947	1941	664	45	112	15		RQM M
	Empc Correction				478	177	45	112	4		
429.7606	49:22	49:24	1	0.947	538	199	13	32	15	3.61(0.76-1.02)	
PCB-194											
427.7635	51:42						45	112			
429.7606	51:42						13	32			
PCB-205											
427.7635	52:11						45	112			
429.7606	52:11						13	32			
PCB-208L											
473.7648	49:06	49:06	0	0.950	3939062	739813	421	1052	1757		
475.7619	49:06	49:06	0	0.950	4868291	911793	599	1497	1522	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:54	53:54	0	1.043	2783604	516496	421	1052	1227		
475.7619	53:54	53:54	0	1.043	3427367	644235	599	1497	1076	0.81(0.65-0.89)	
PCB-208											
461.7246	49:07						165	412			
463.7216	49:07						230	575			
PCB-207											
461.7246	50:03						165	412			
463.7216	50:03						230	575			
PCB-206											
461.7246	53:55						165	412			
463.7216	53:55						230	575			
PCB-209L											
507.7258	55:31	55:31	0	1.074	2550105	461532	96	240	4808		
509.7229	55:31	55:31	0	1.074	3568870	639299	102	255	6268	0.71(0.59-0.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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## DCB Decachlorobiphenyl

Ma

495.6856 55:32 55:33 -1 1.000 546 173 6 15 29

a

497.6826 55:33 55:33 1 1.001 779 181 3 7 60

0.70(0.59-0.79) M

## QC Flag Legend

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

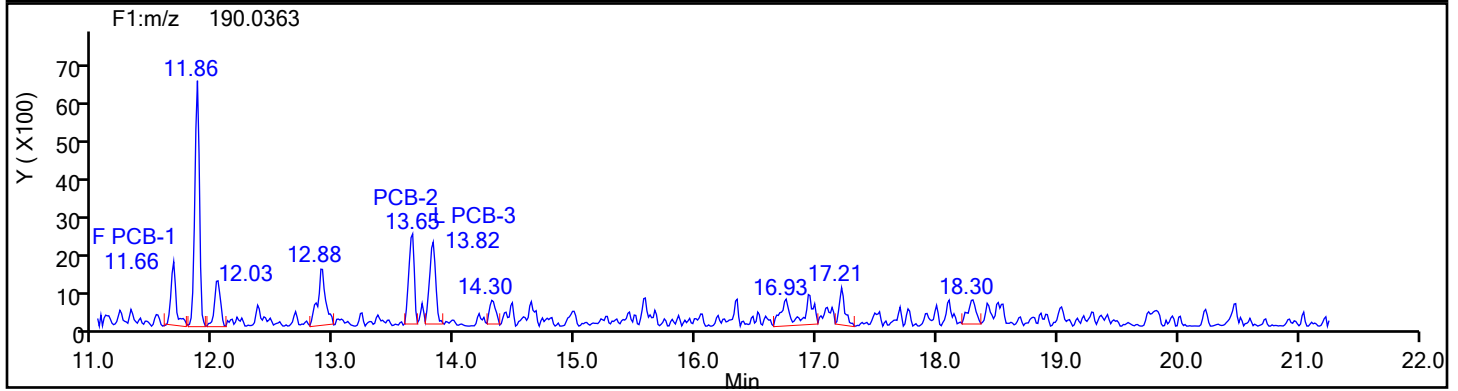
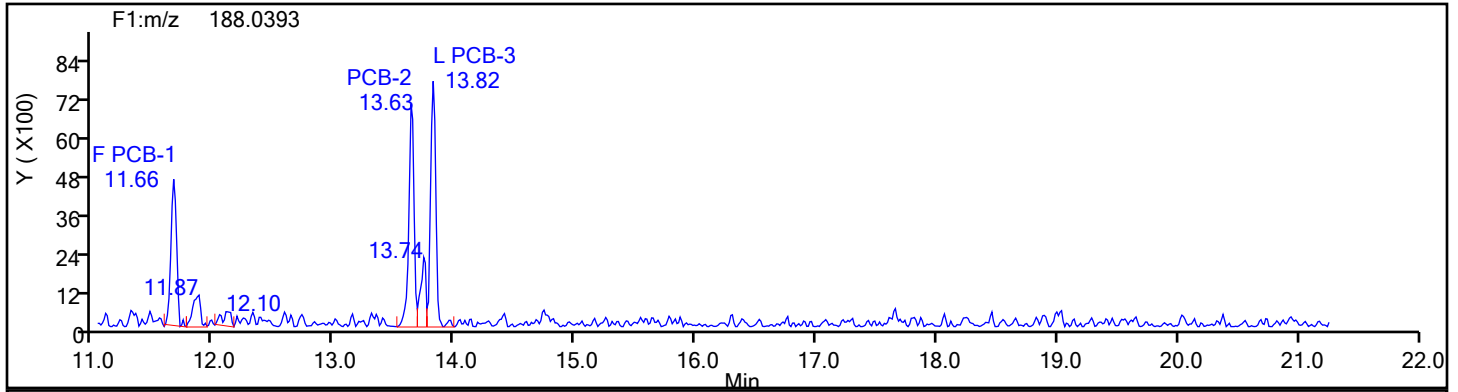
M - Manually Integrated

U - Marked Undetected

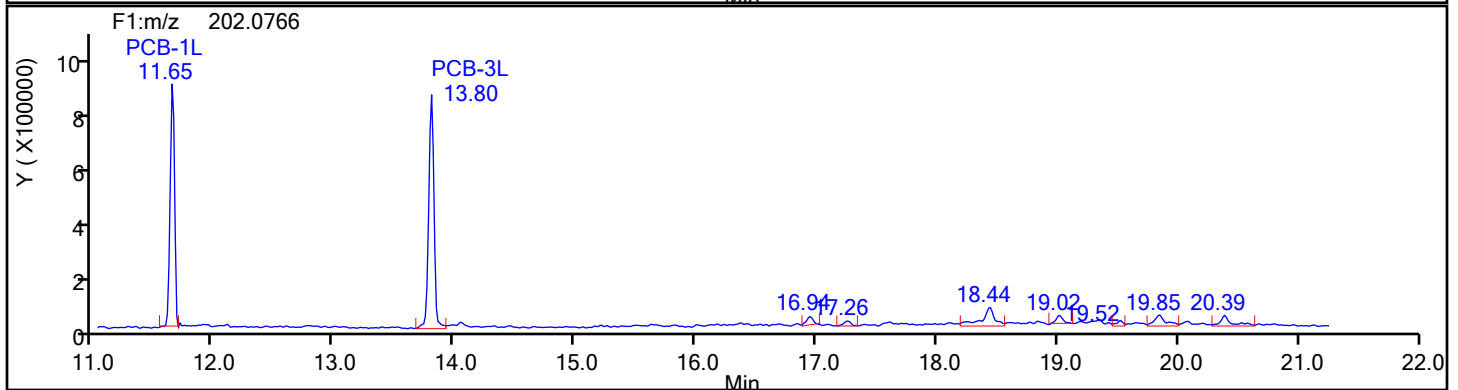
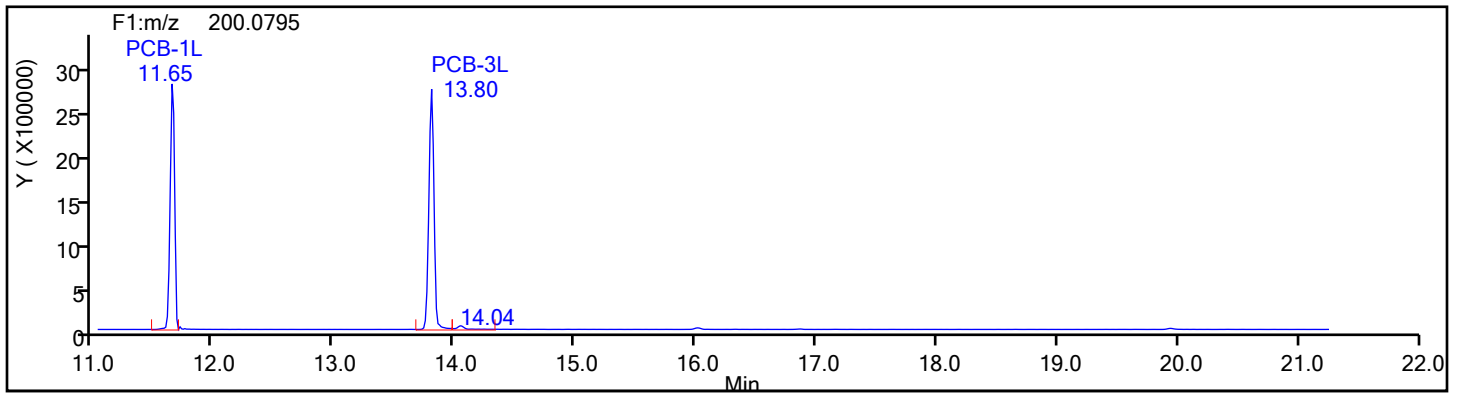
a - User Assigned ID

## Eurofins Knoxville

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Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

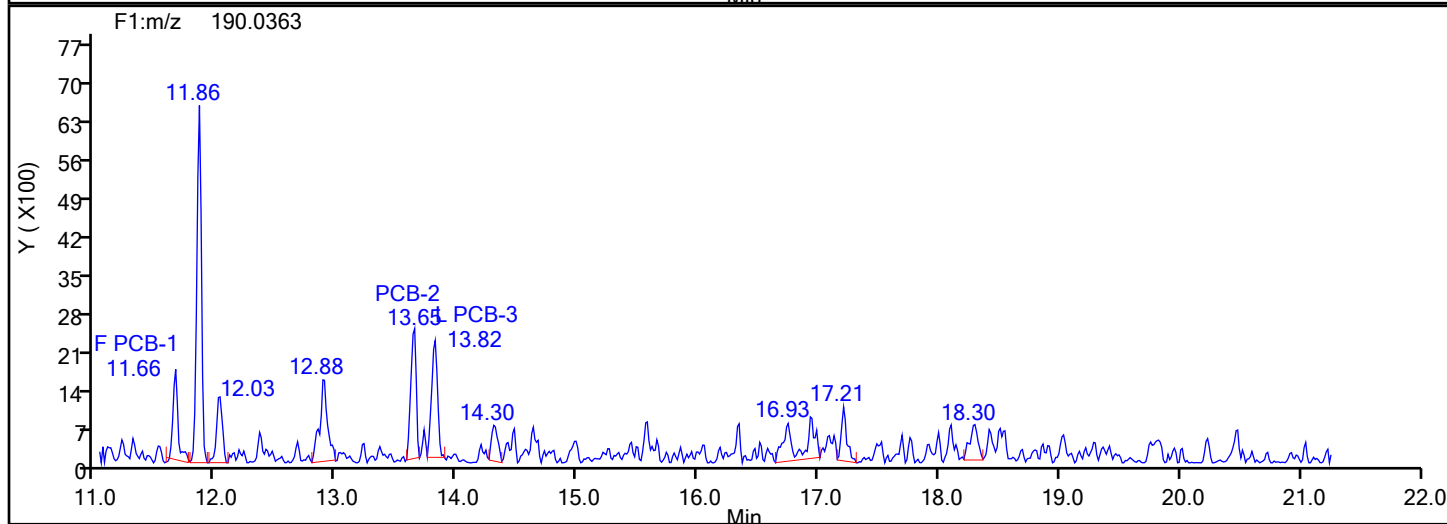
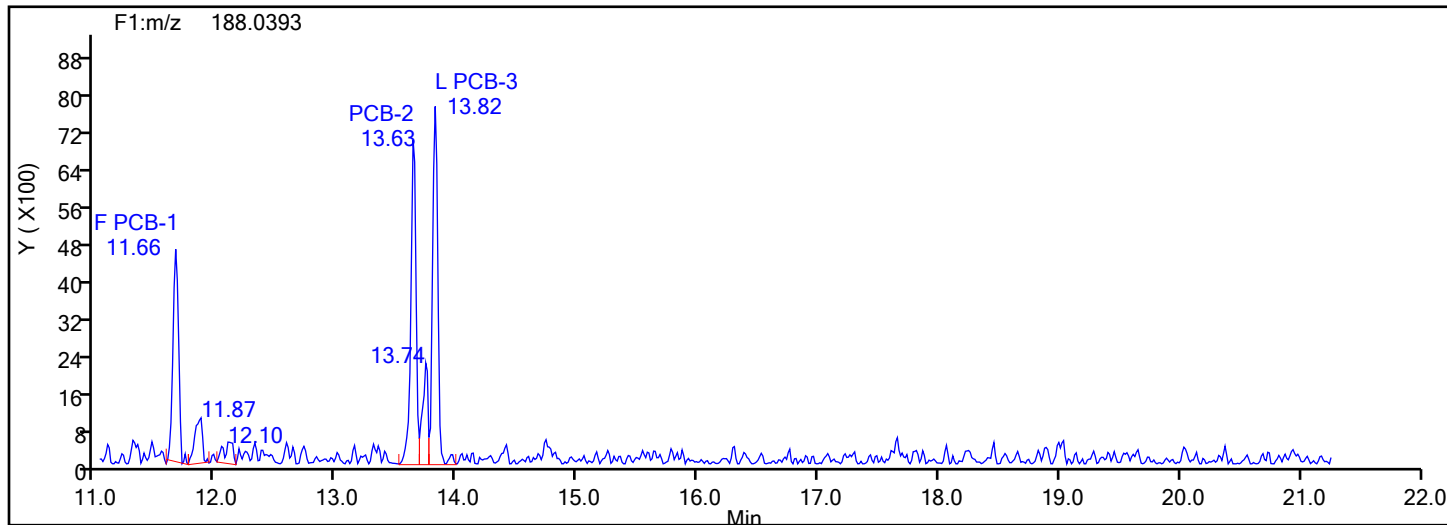


## MoPCB F1 Standards

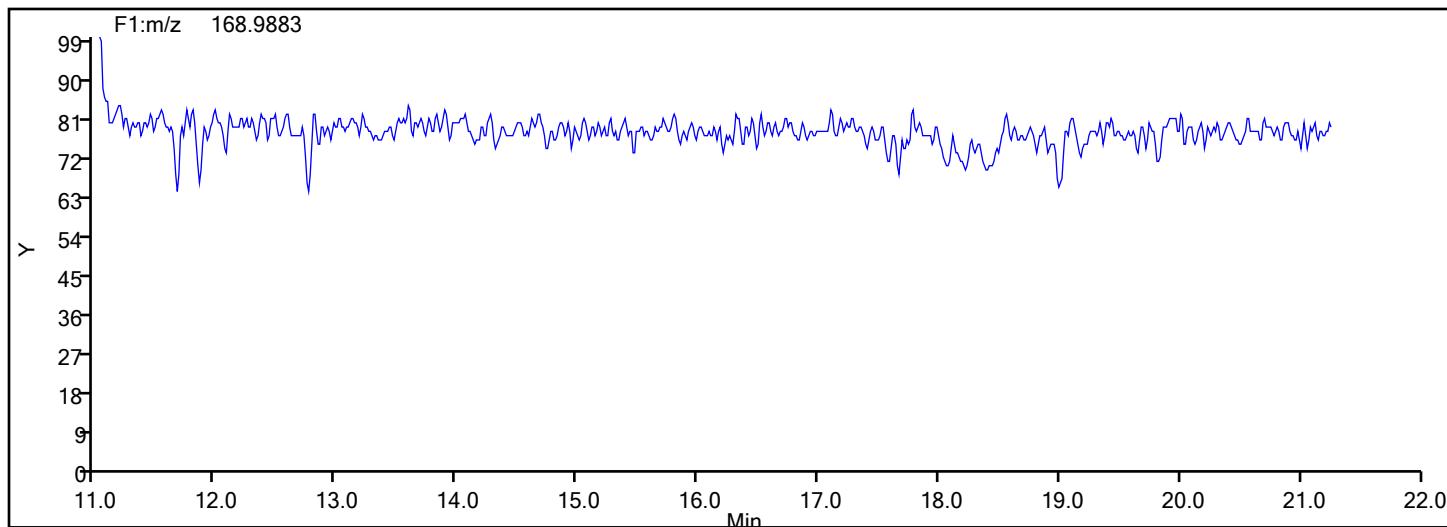


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

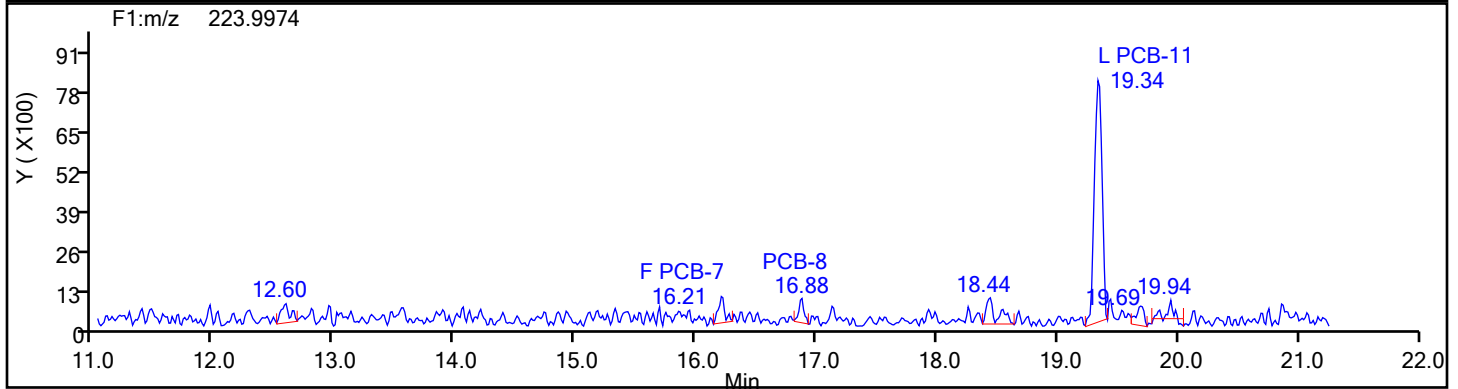
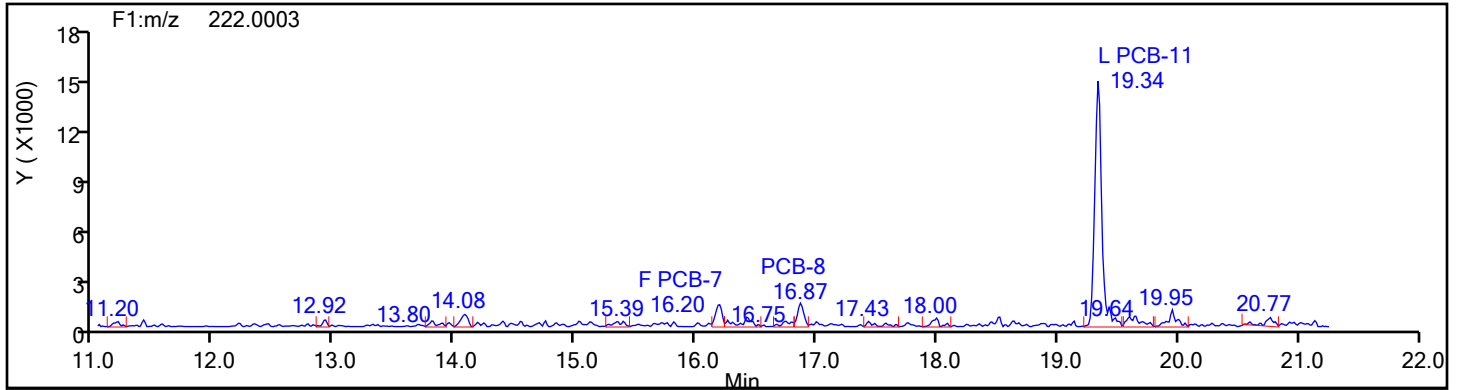


## MoPCB F1 Lock Mass

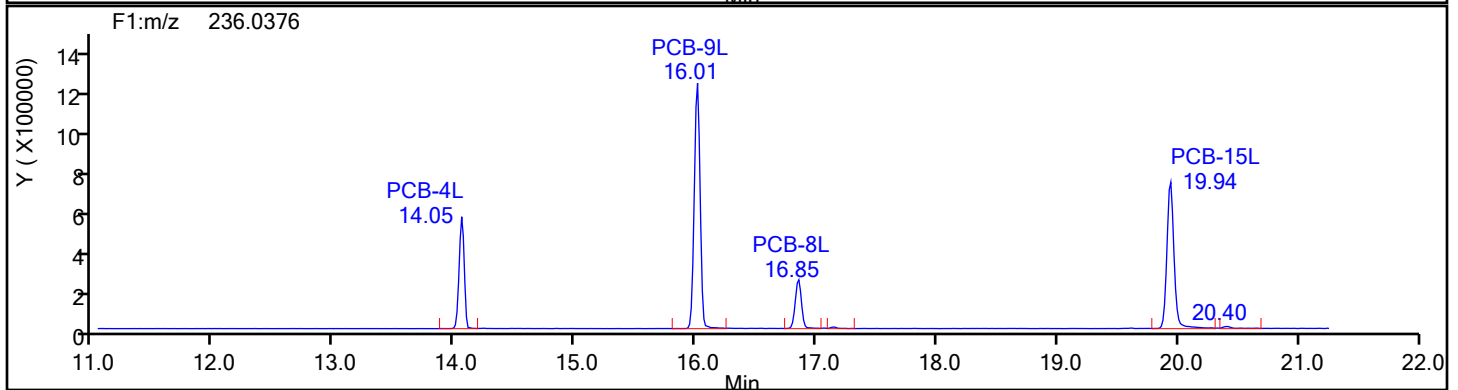
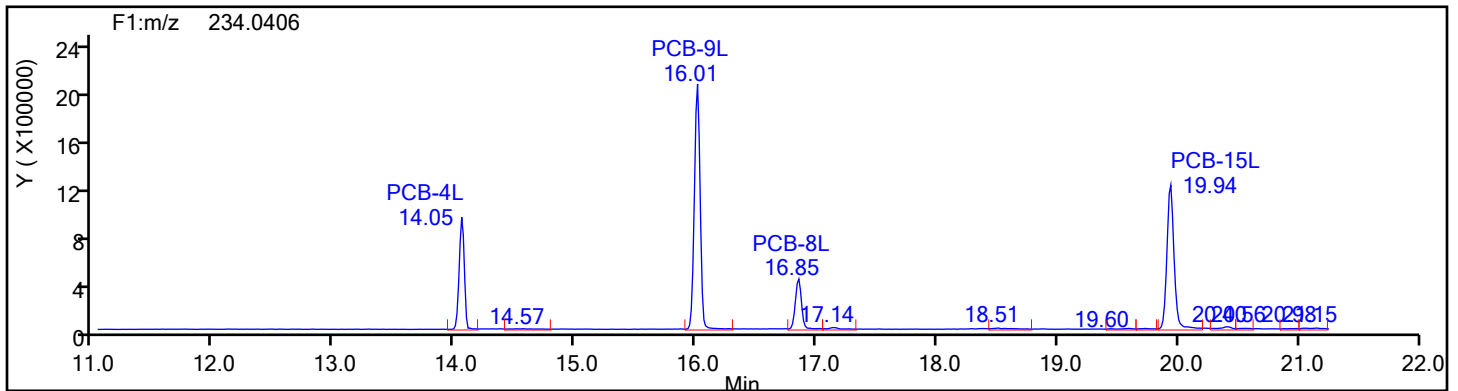


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1

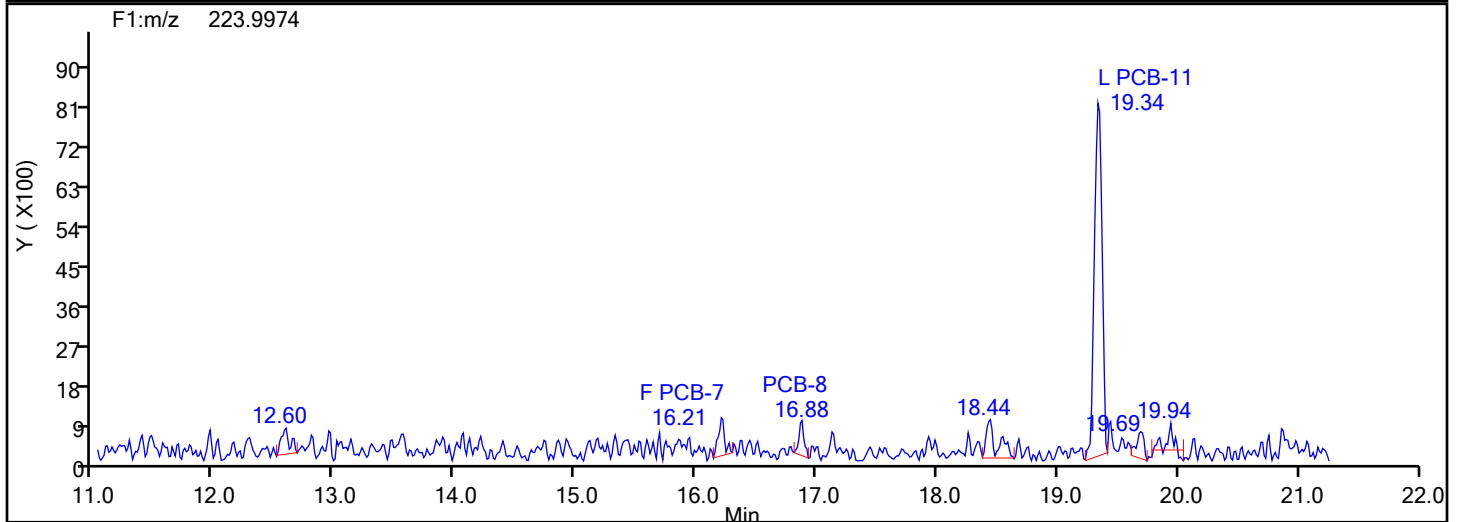
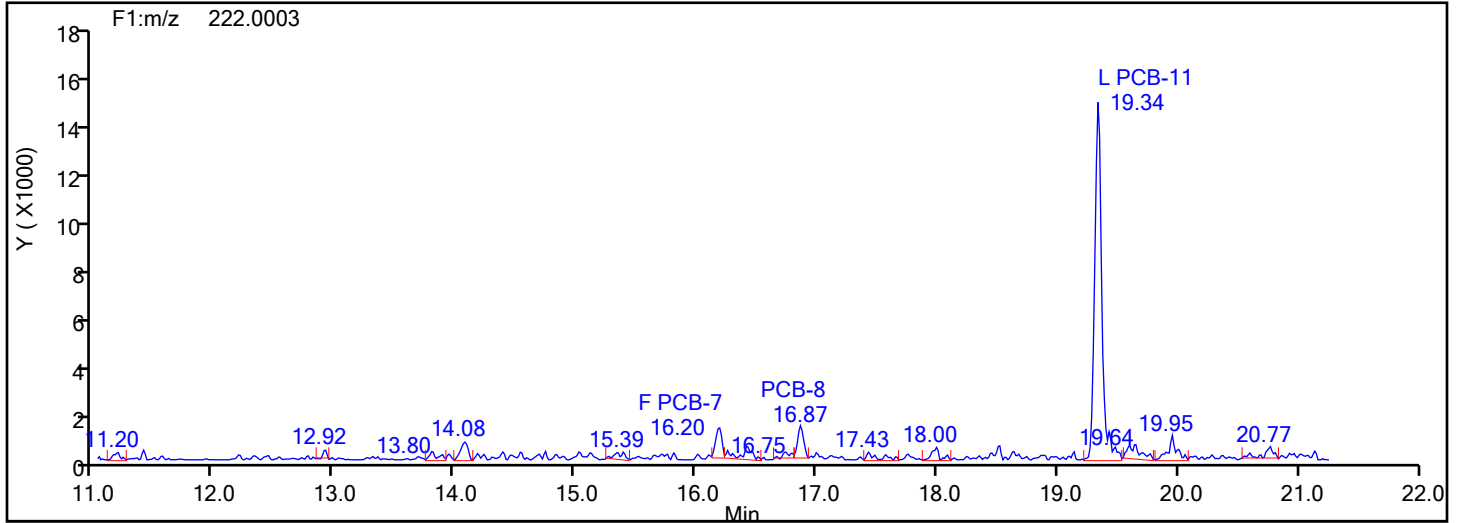


## DiPCB F1 Standards

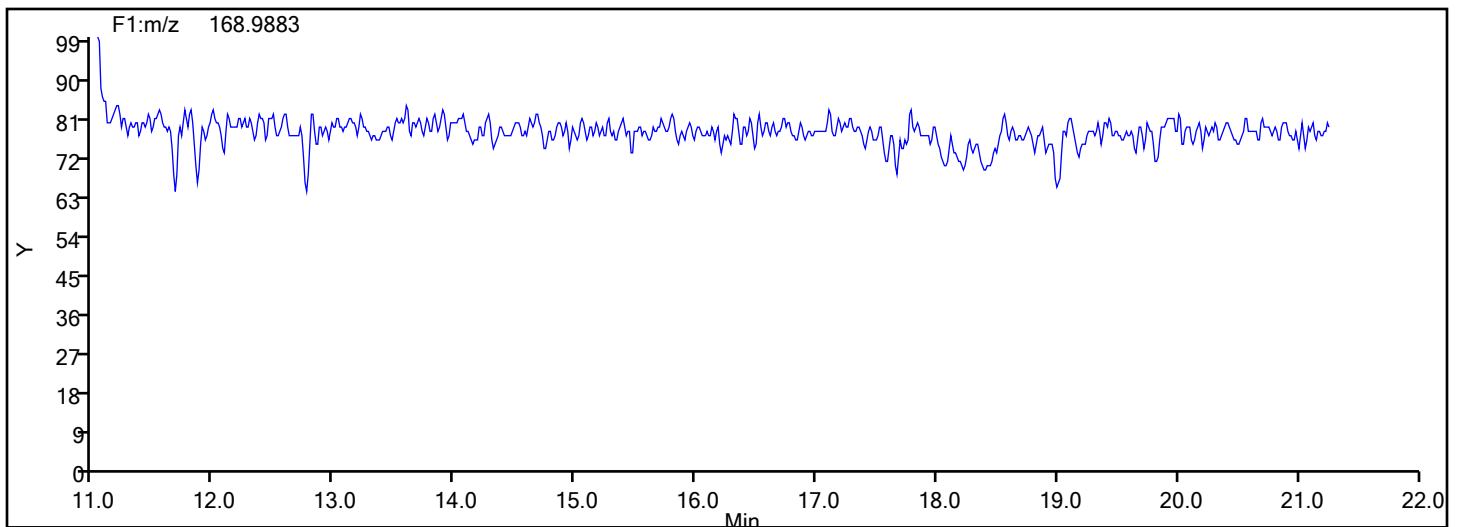


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



## DiPCB F1 Lock Mass





## Eurofins Knoxville

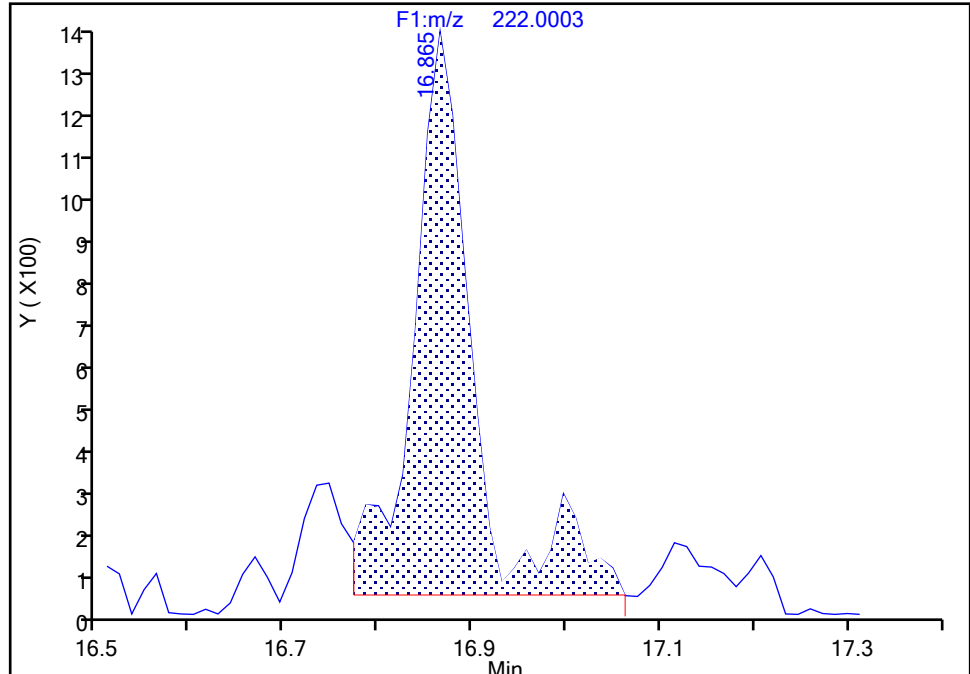
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Injection Date: 29-Jun-2024 03:19:00 Instrument ID: D2D  
Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

PCB-8, CAS: 34883-43-7

Signal: 1

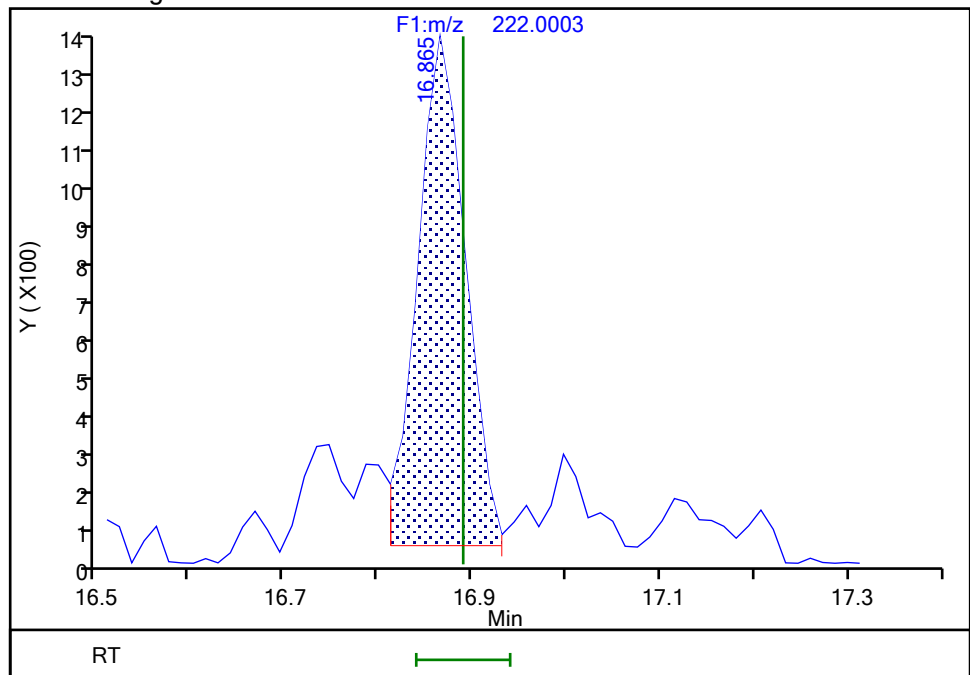
RT: 16.87  
Area: 5875  
Amount: 0.083647  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.87  
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Amount: 0.070994  
Amount Units: pg/ul

## Manual Integration Results



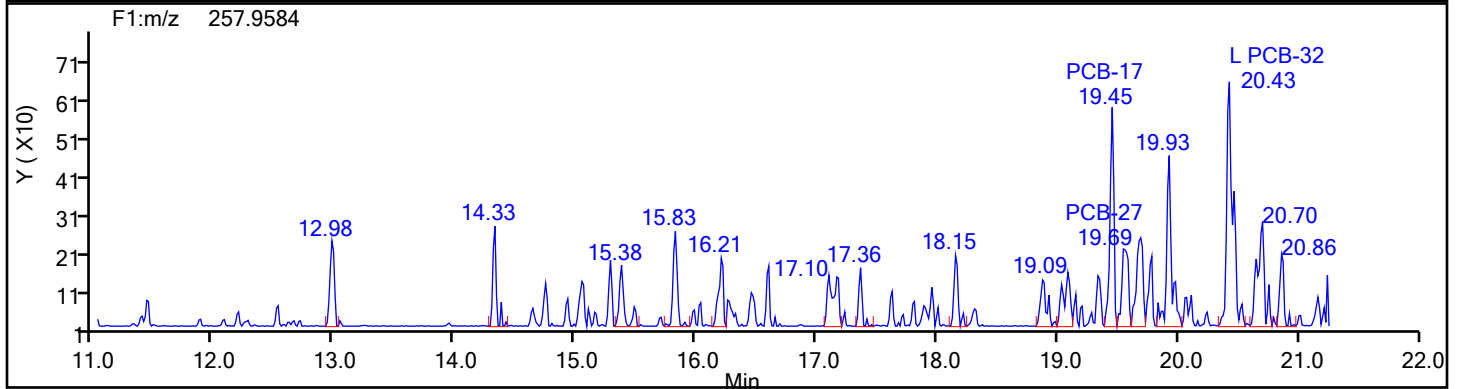
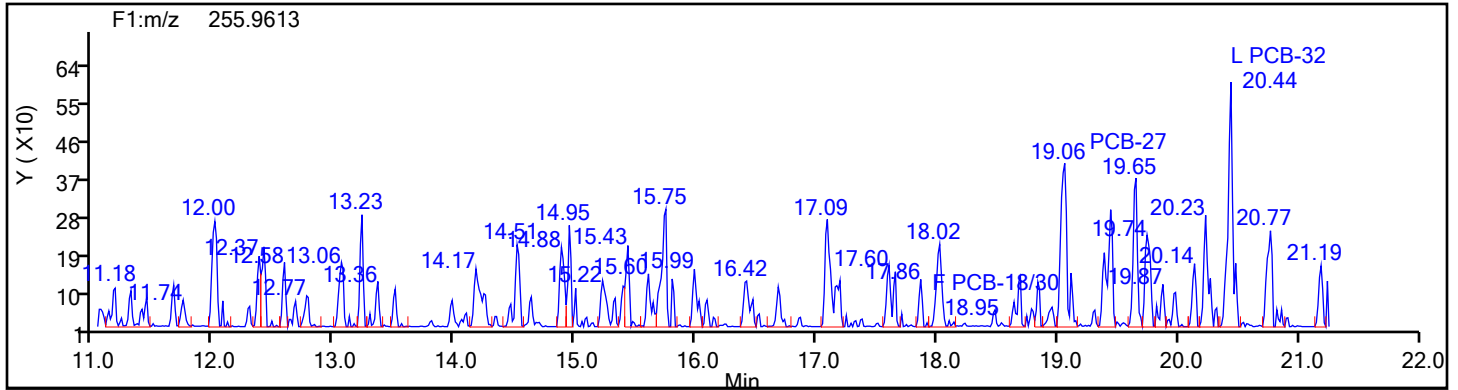
Reviewer: P0IK, 29-Jun-2024 15:44:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

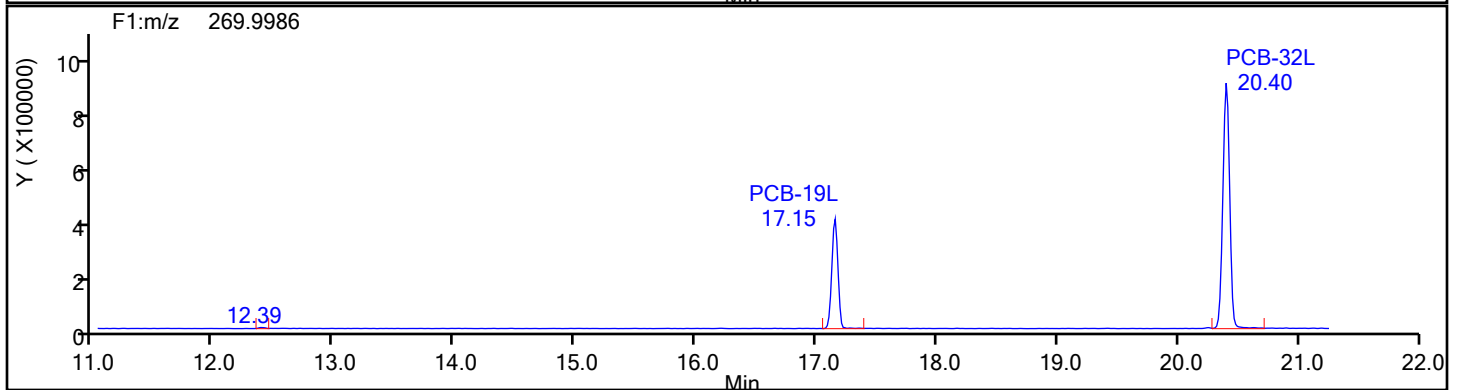
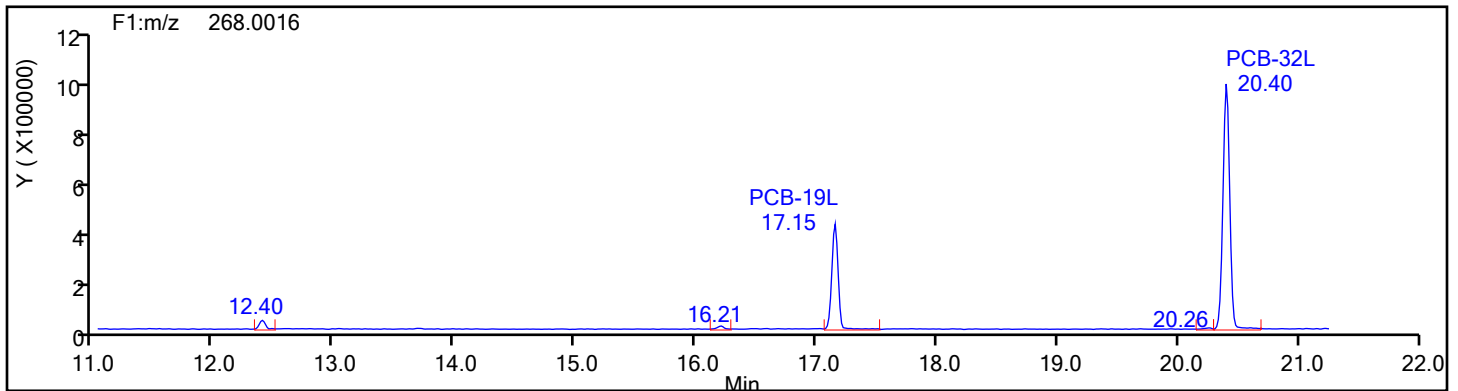
Audit Reason: Incomplete Integration

## Eurofins Knoxville

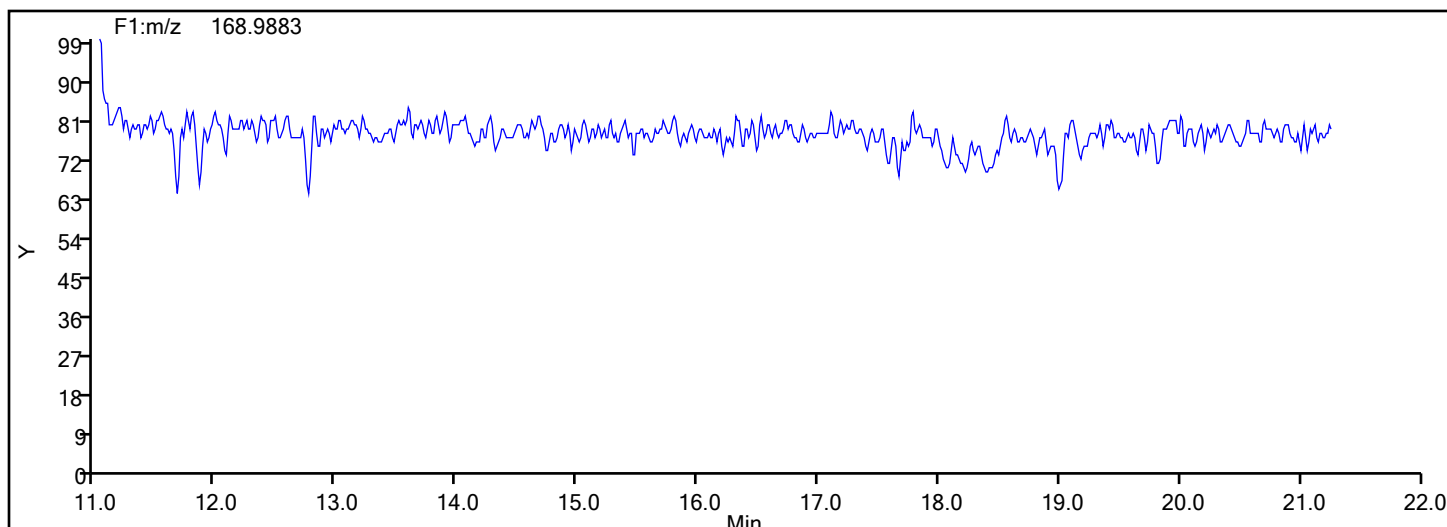
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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Standards

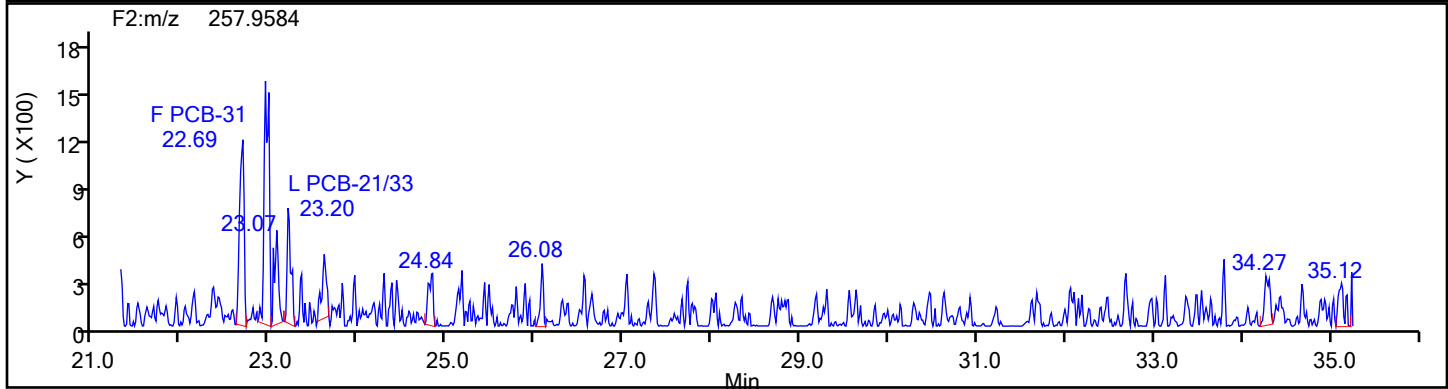
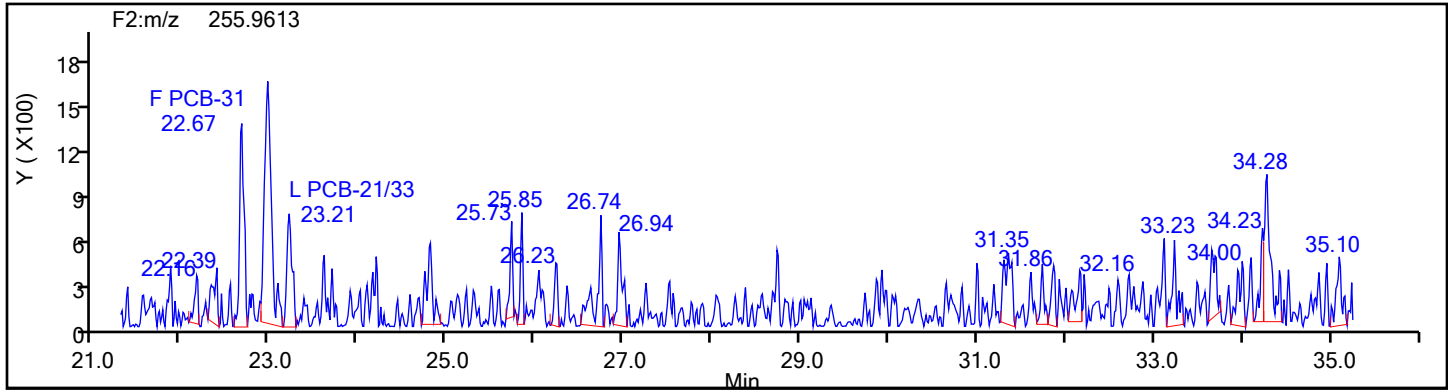


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Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	M23 - EPN 4-1\IN-701-FIELD BLANK-COMBINED		
Worklist#:	88242	Sample Line#:	7
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
TriPCB F1			

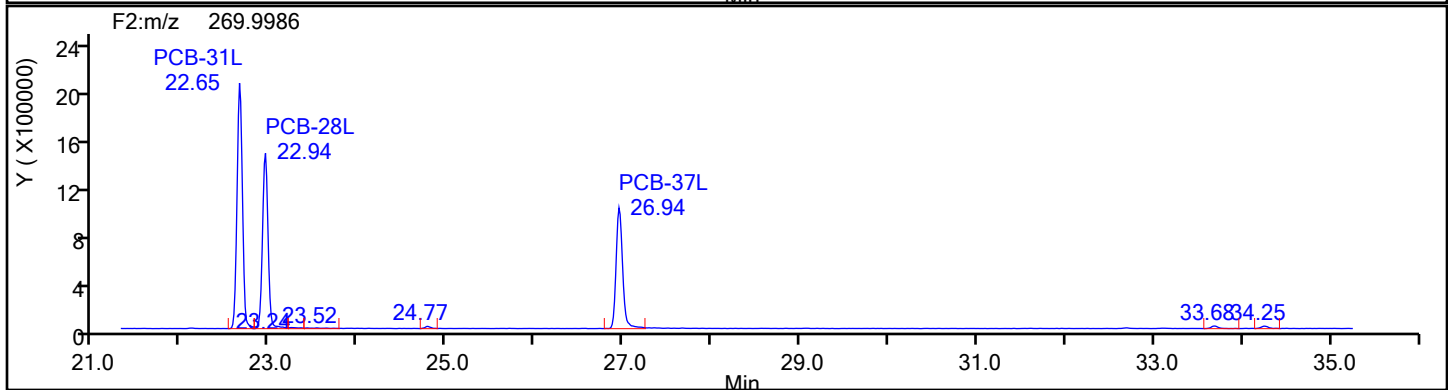
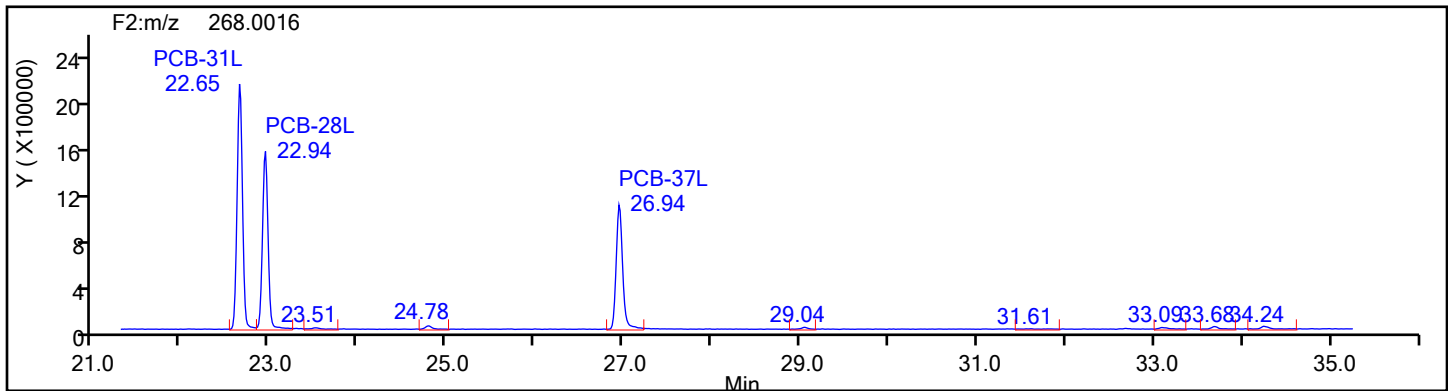


## Eurofins Knoxville

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Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

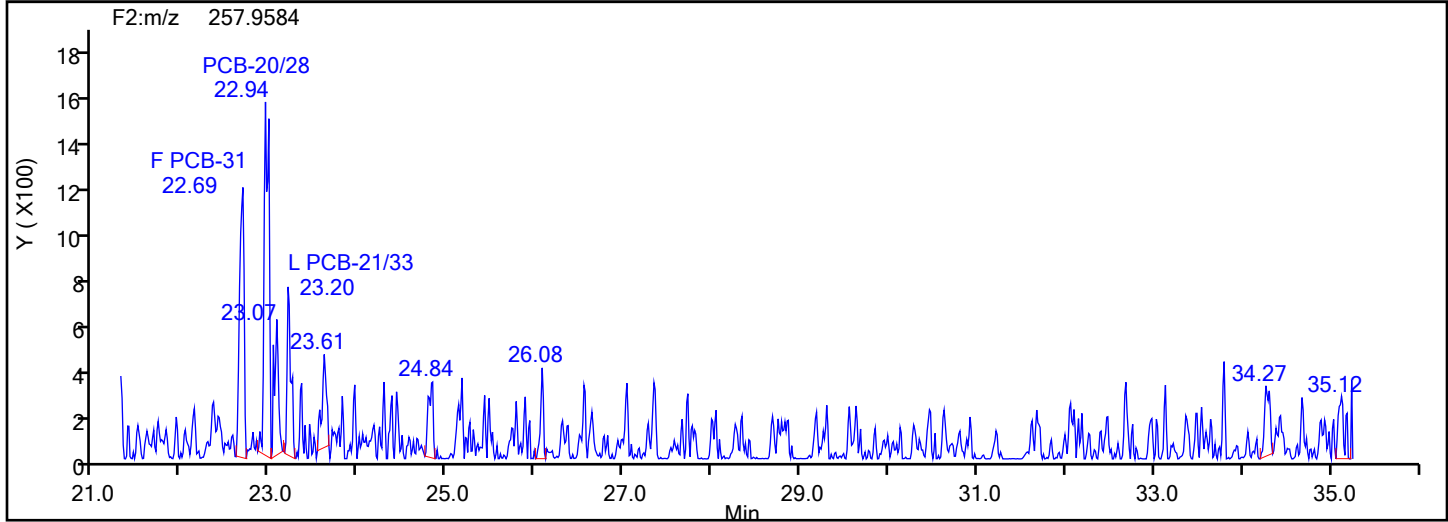
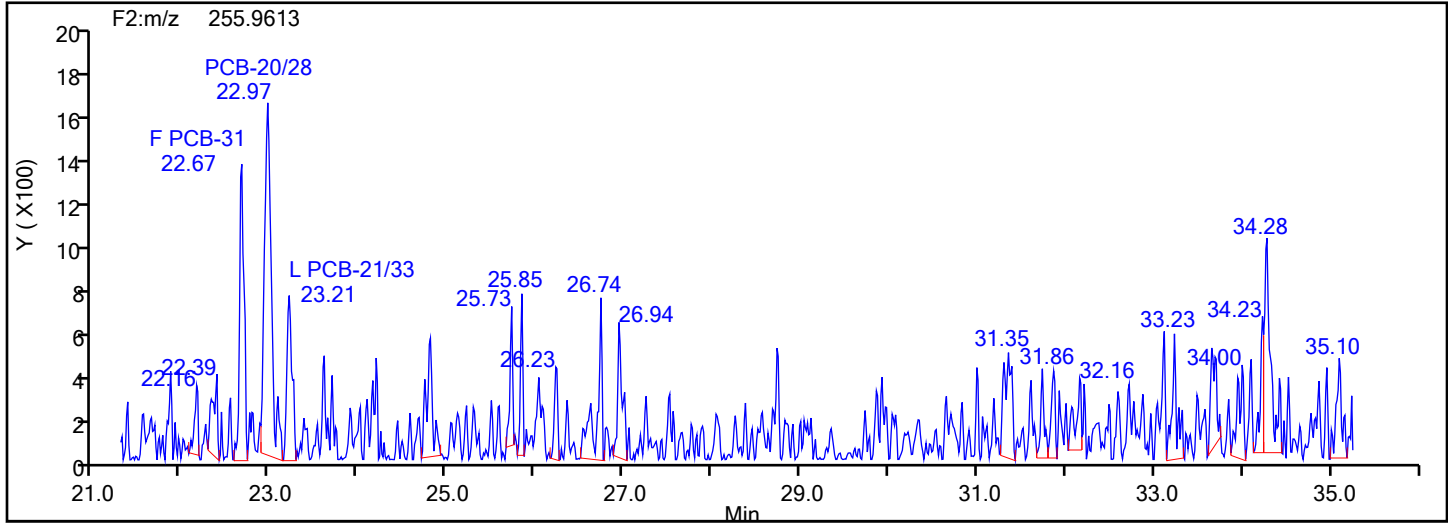


## TriPCB F2 Standards

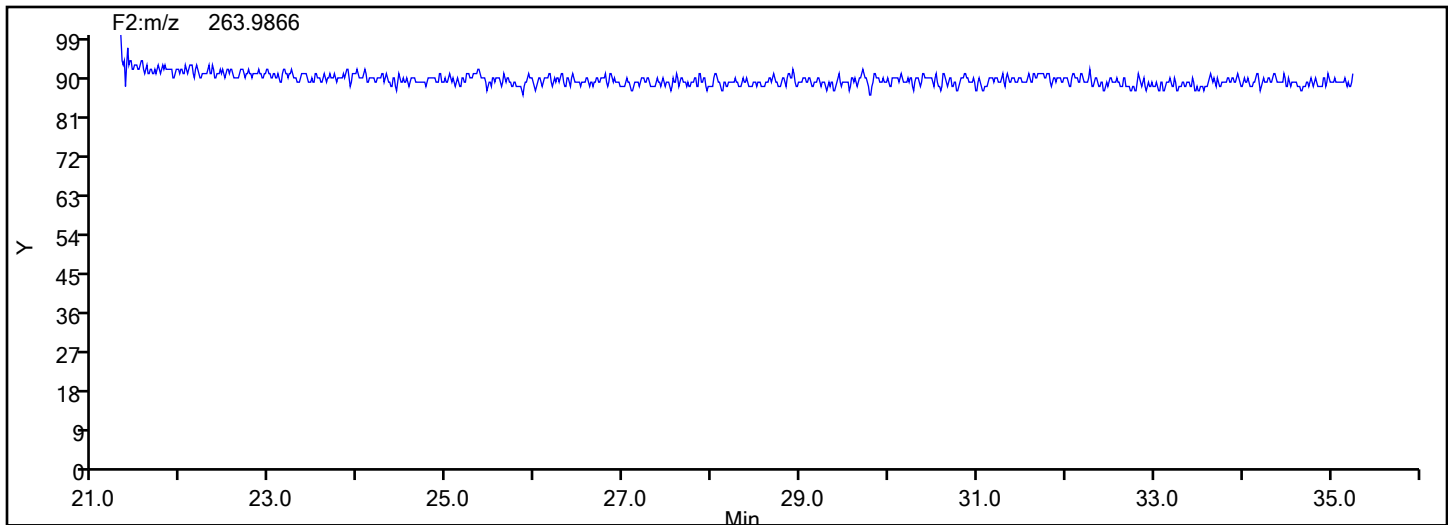


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

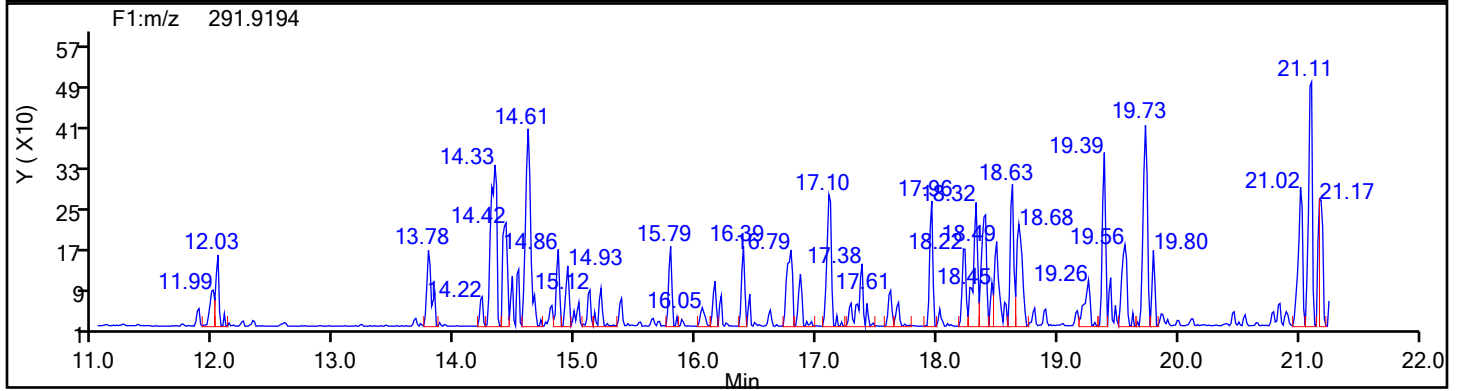
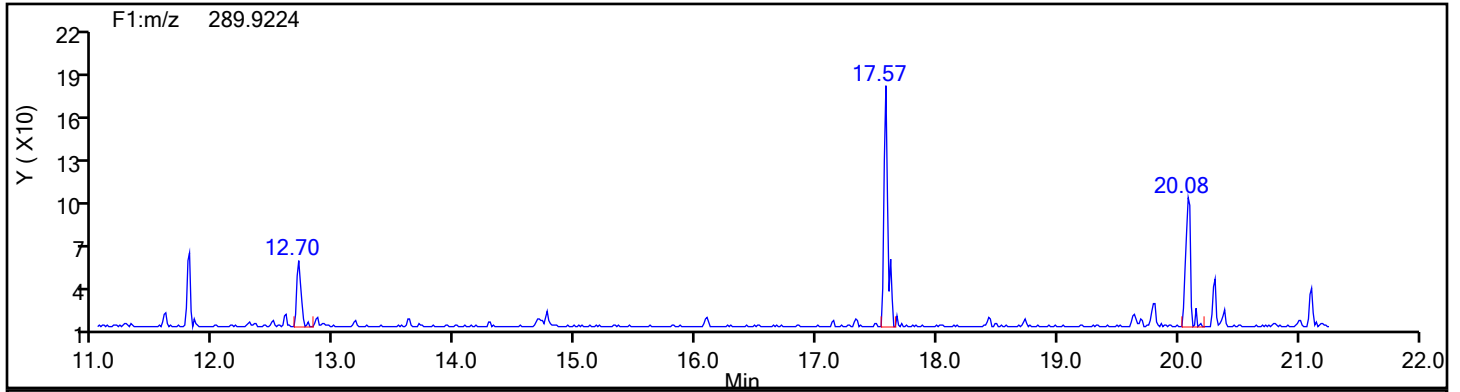


## TriPCB F2 Lock Mass

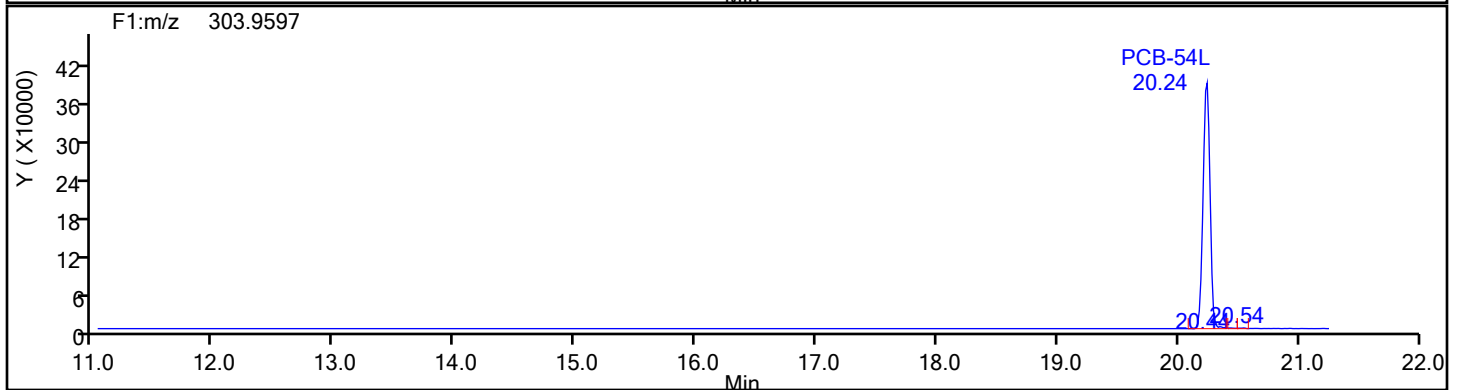
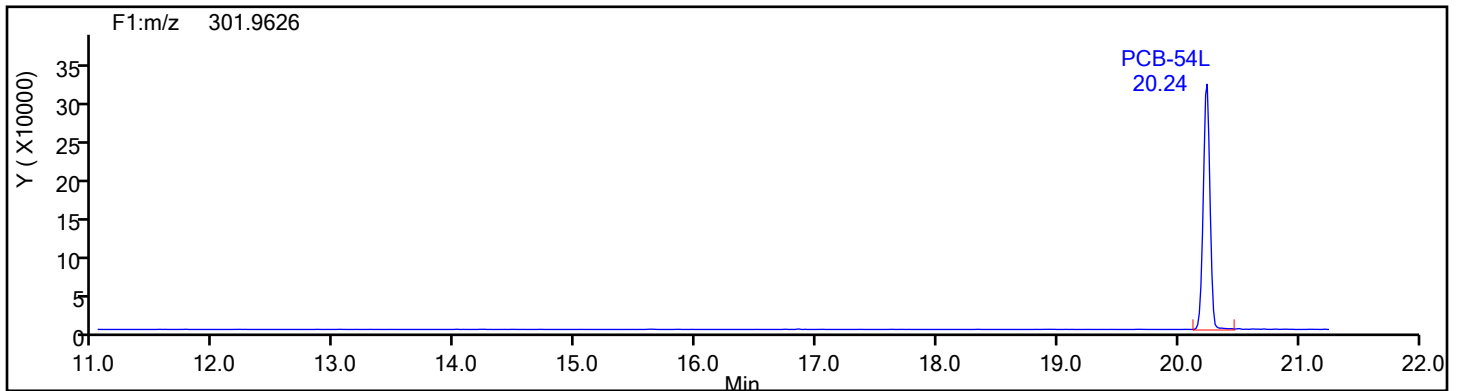


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

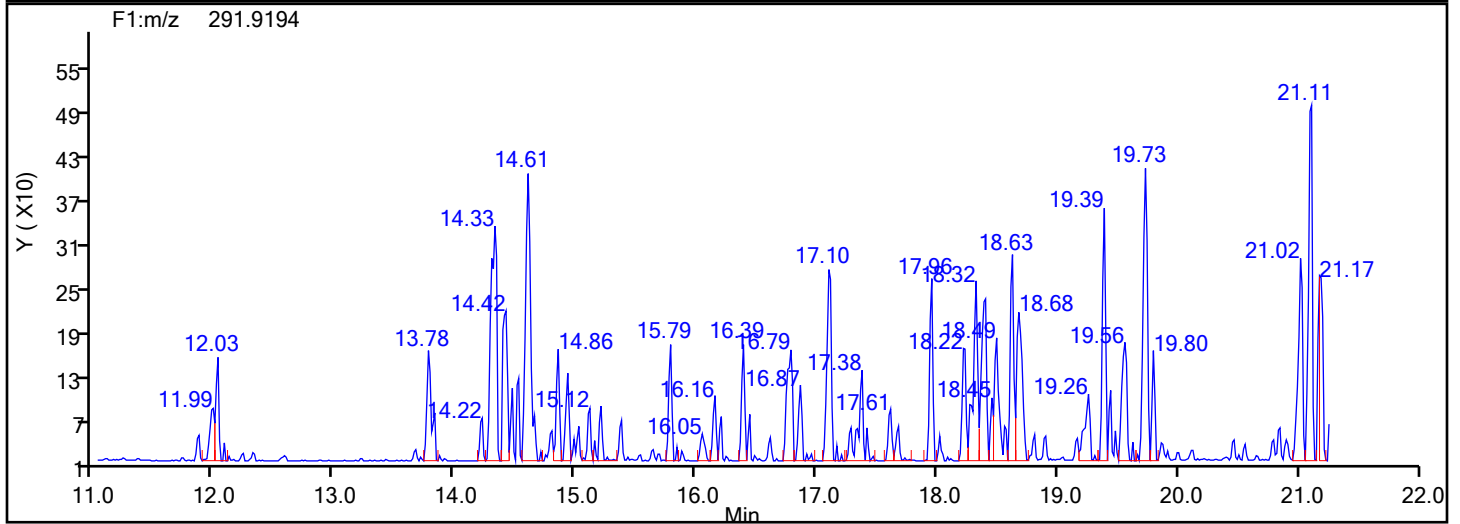
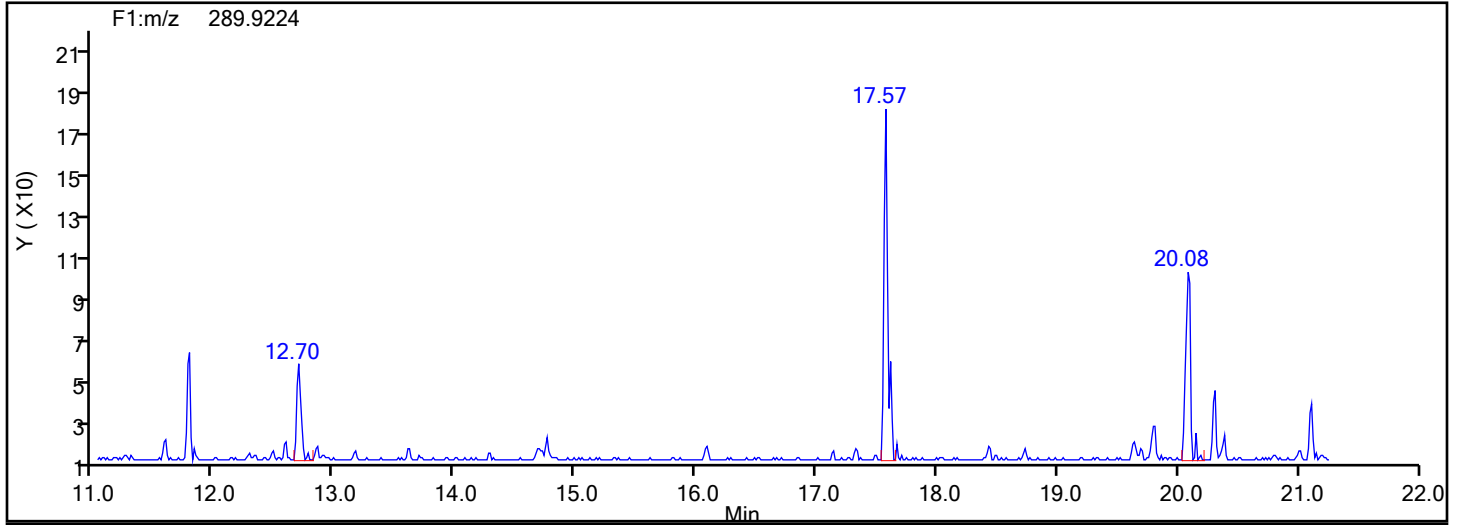


## TePCB F1 Standards

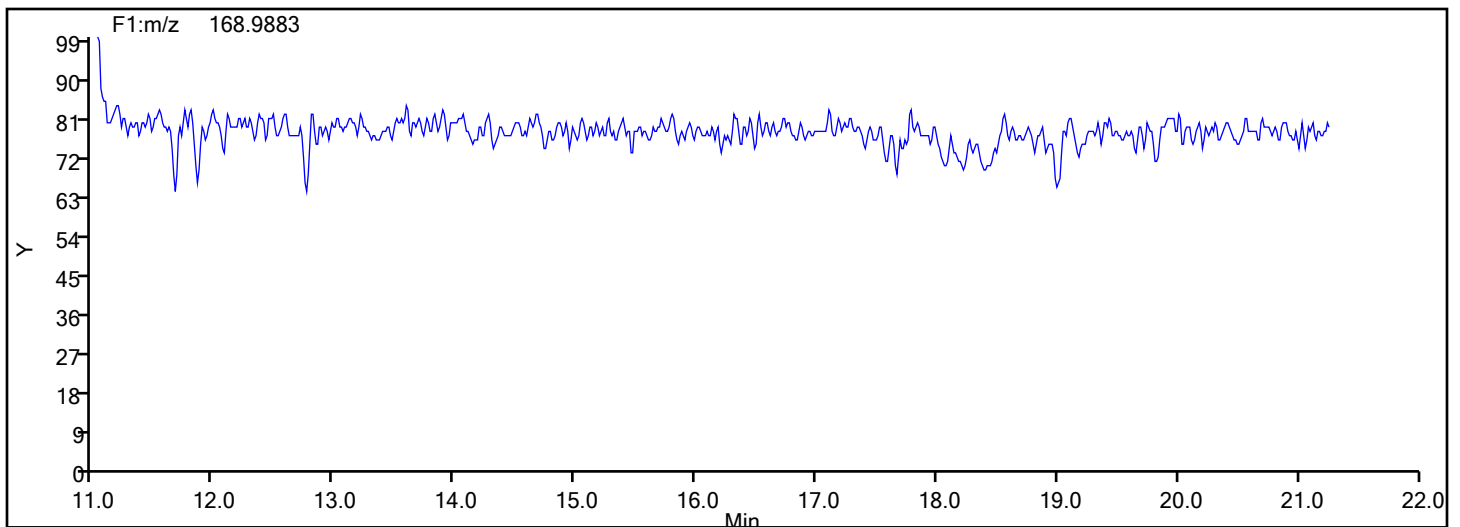


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

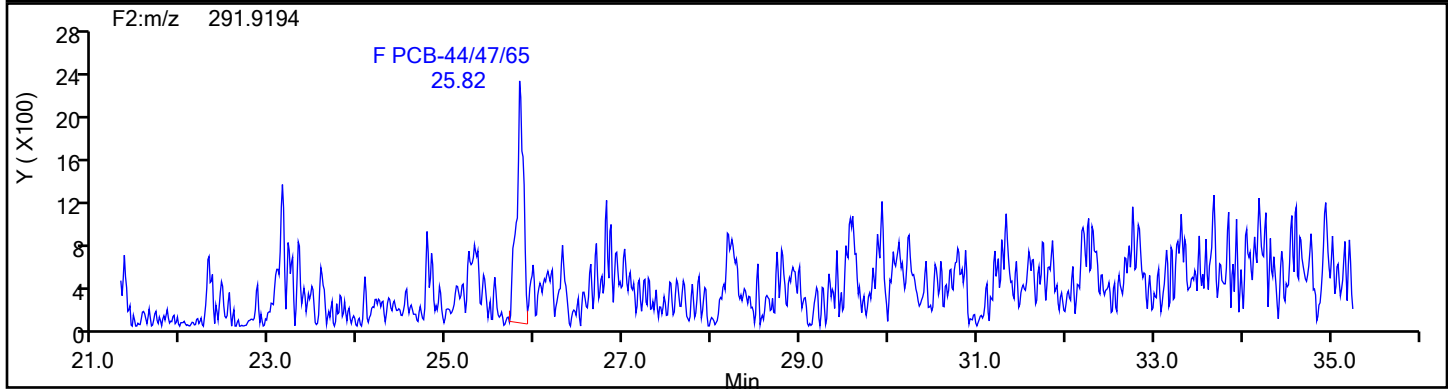
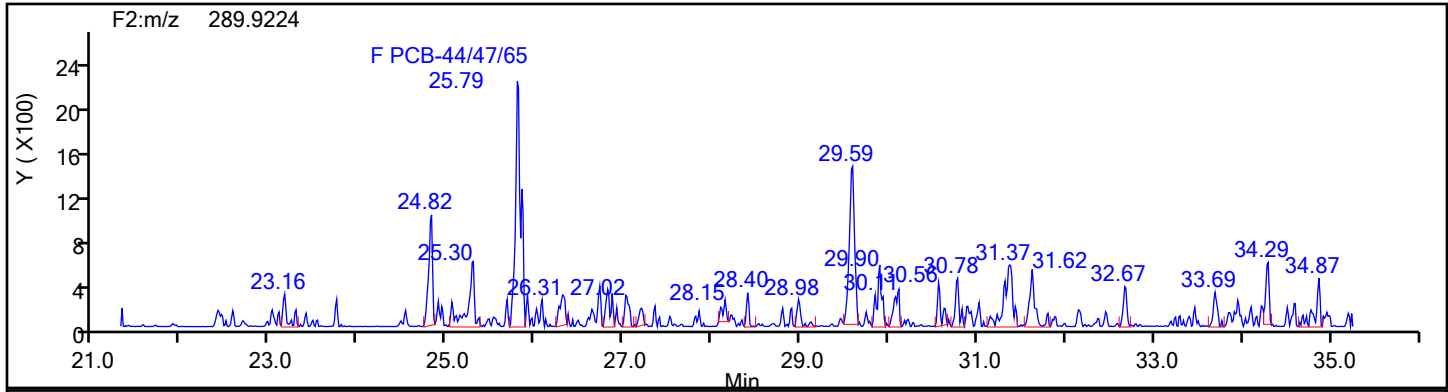


## TePCB F1 Lock Mass

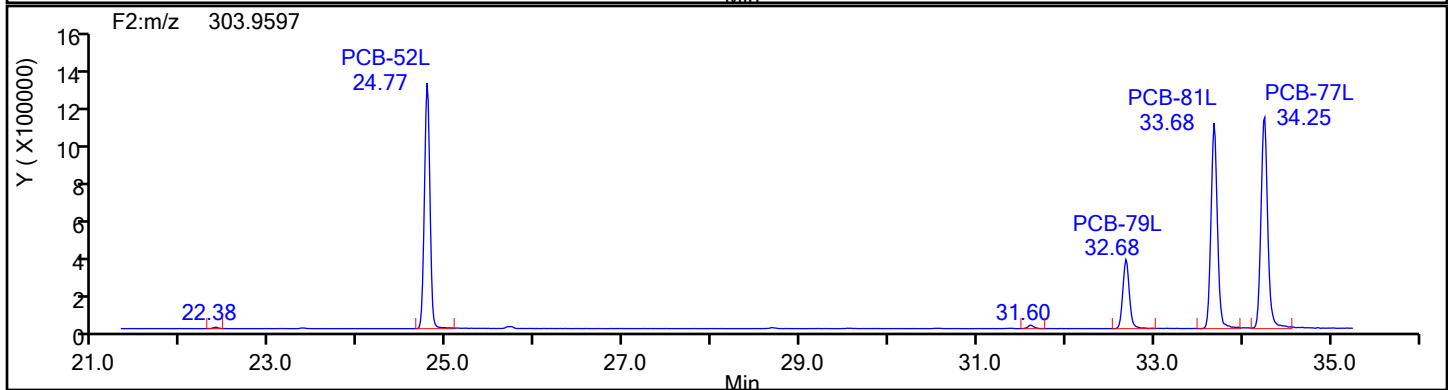
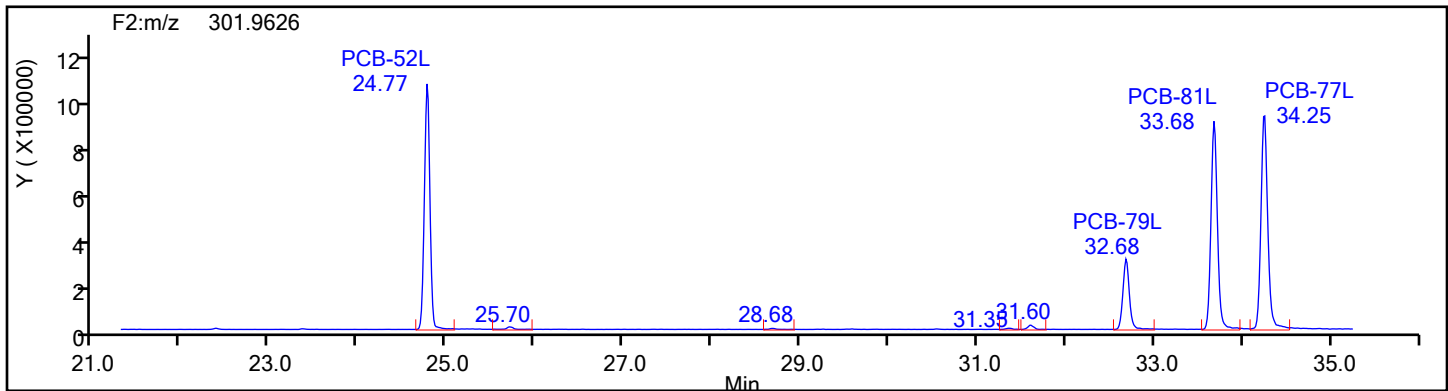


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2



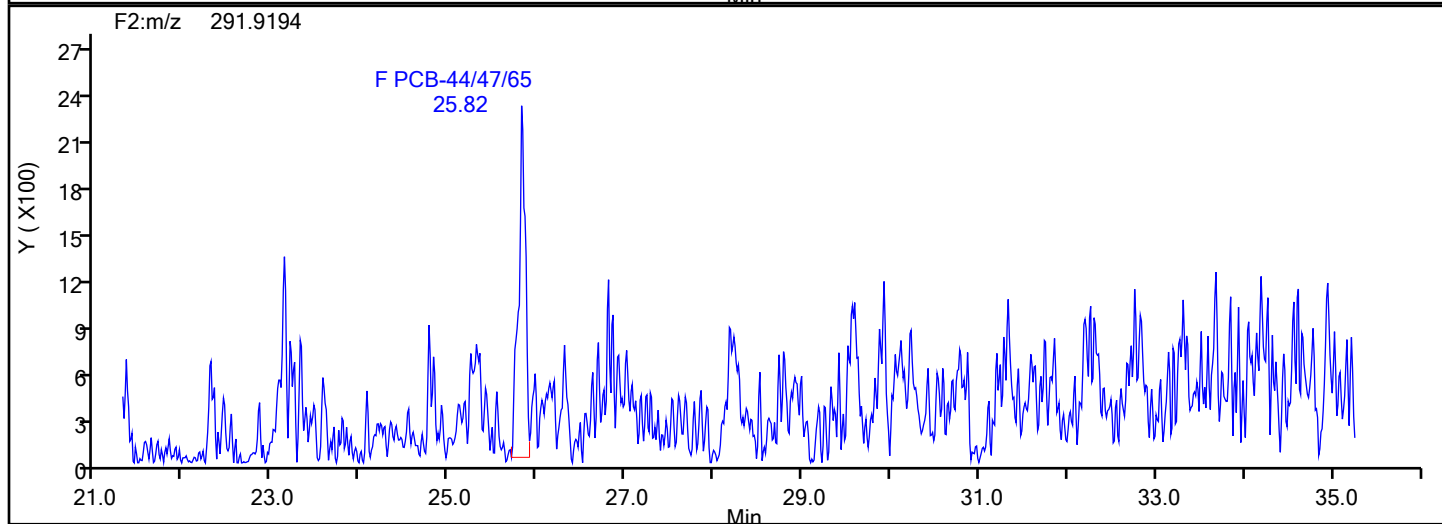
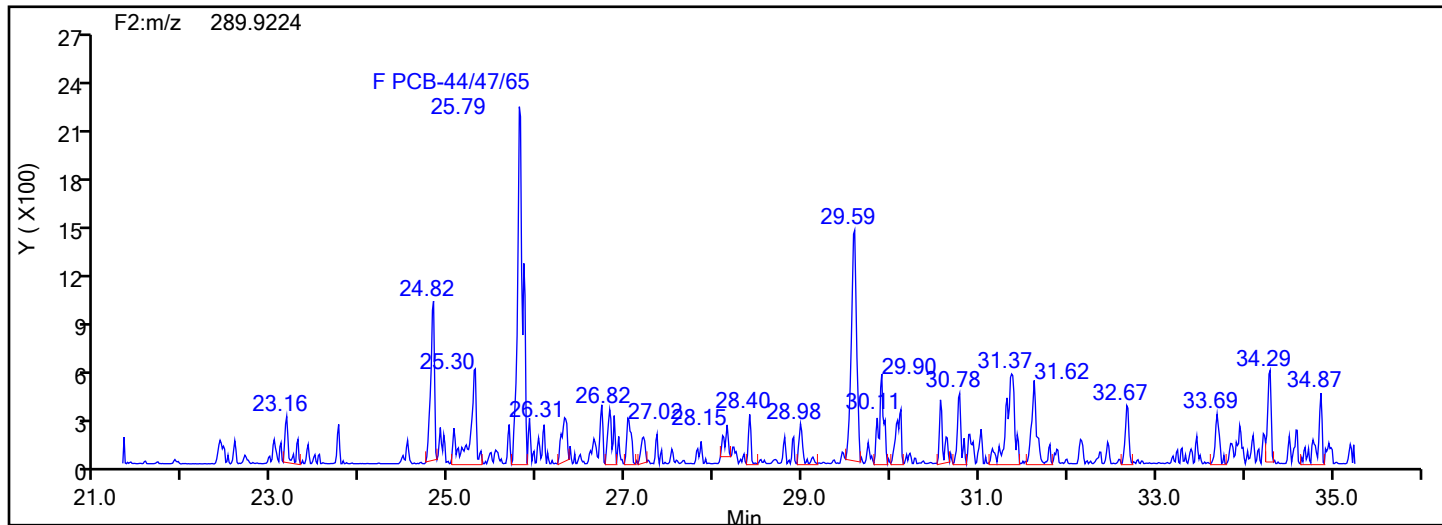
## TePCB F2 Standards



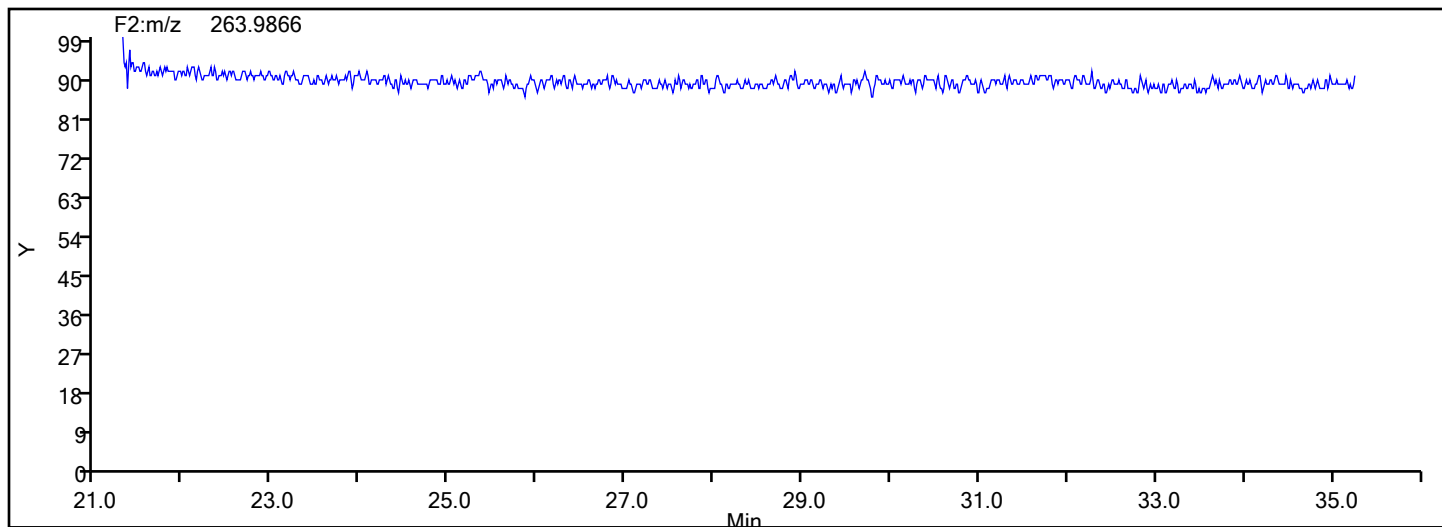


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

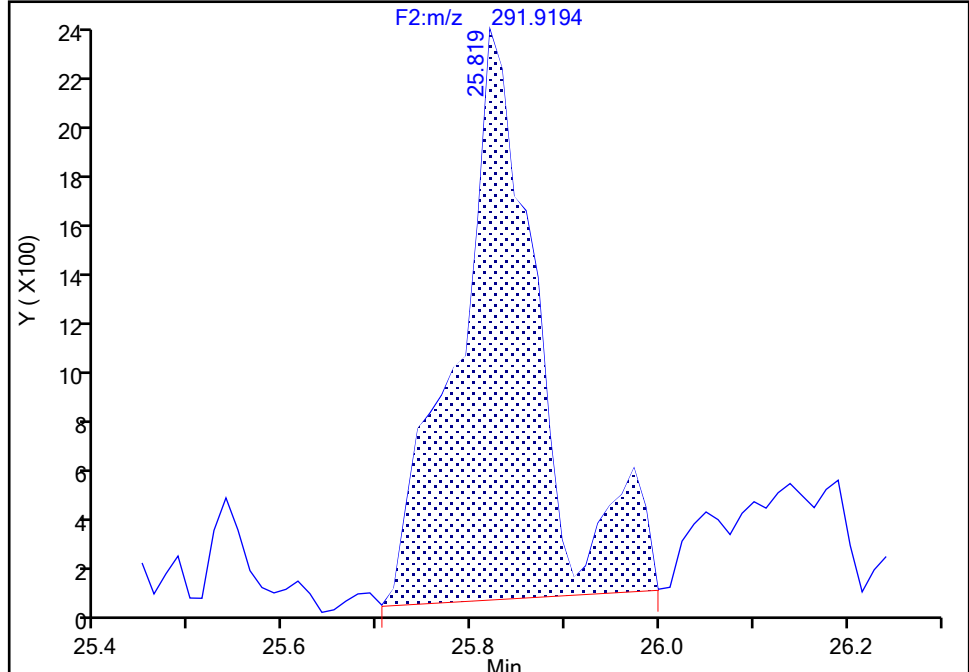
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Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

PCB-44/47/65, CAS: STL01803

Signal: 2

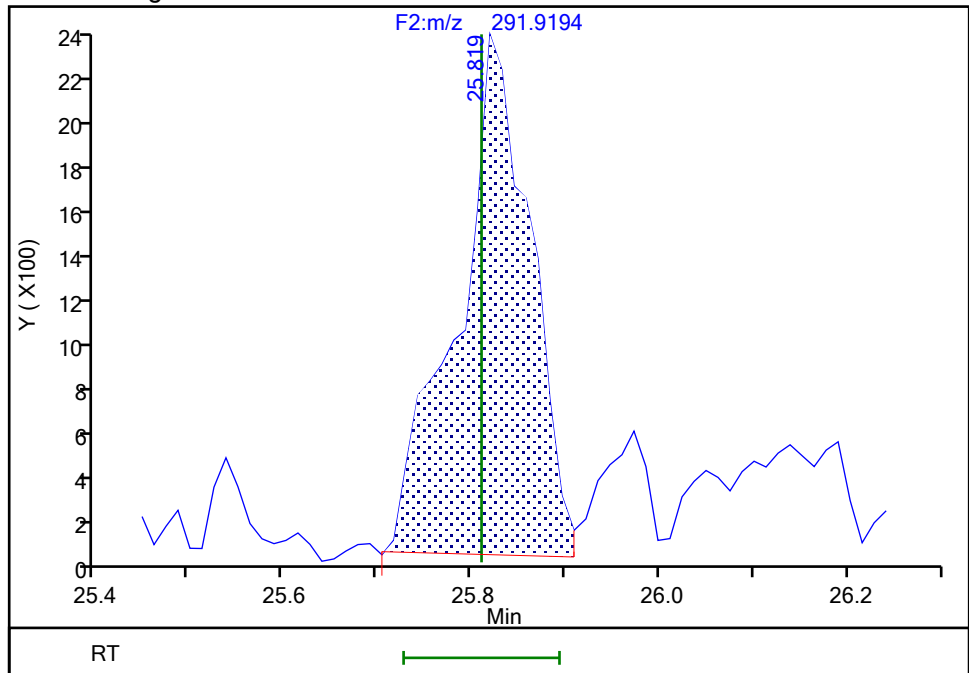
RT: 25.82  
Area: 13362  
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Amount Units: pg/ul

## Processing Integration Results



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Area: 12131  
Amount: 0.217438  
Amount Units: pg/ul

## Manual Integration Results



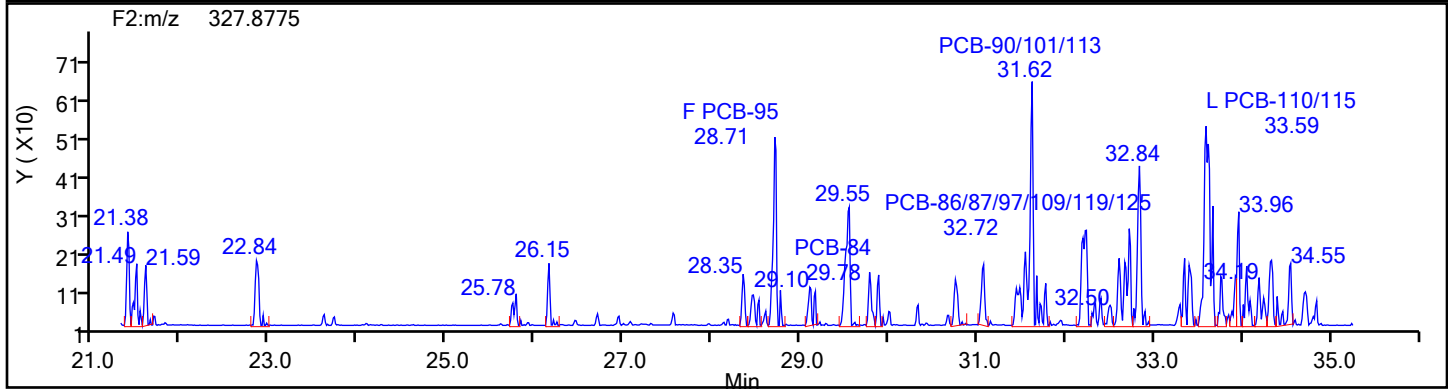
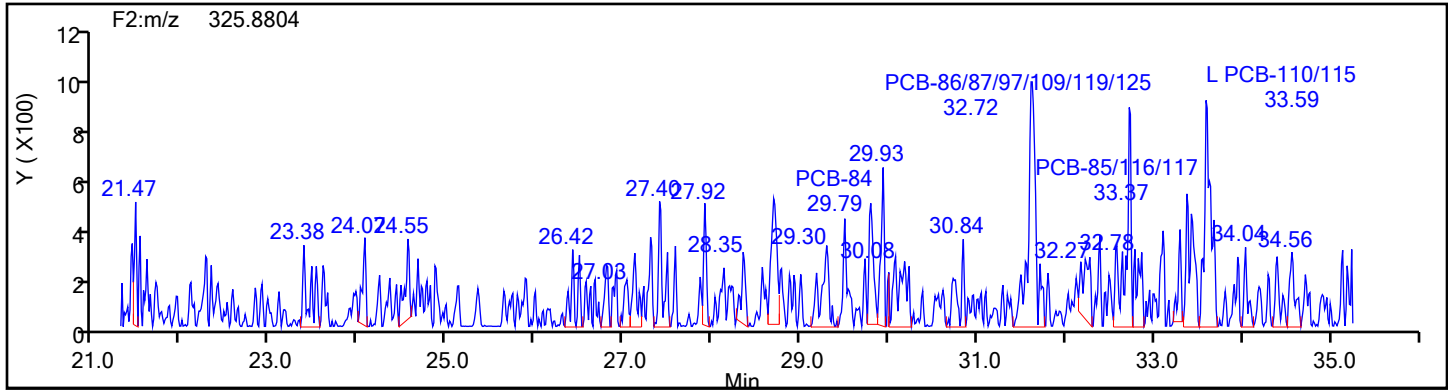
Reviewer: P0IK, 29-Jun-2024 15:45:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

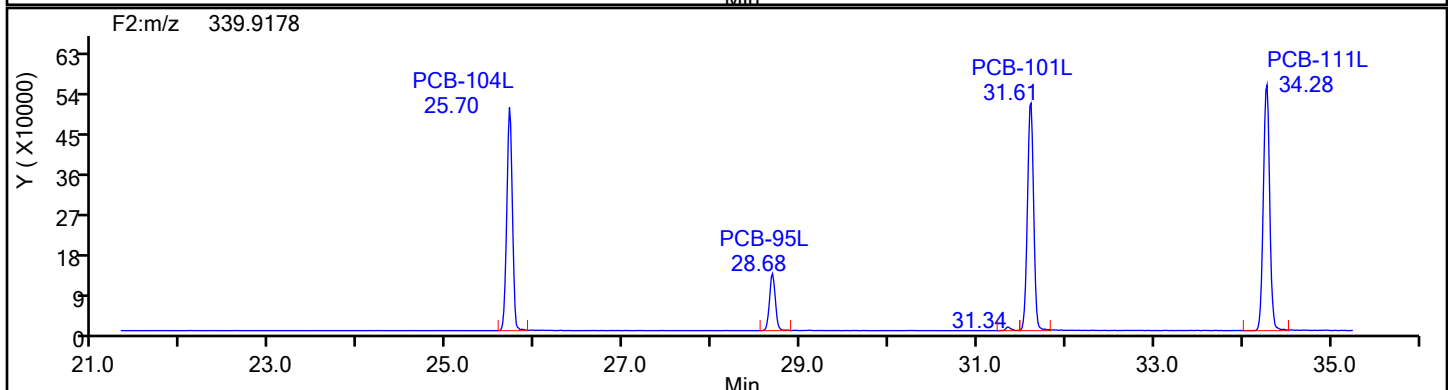
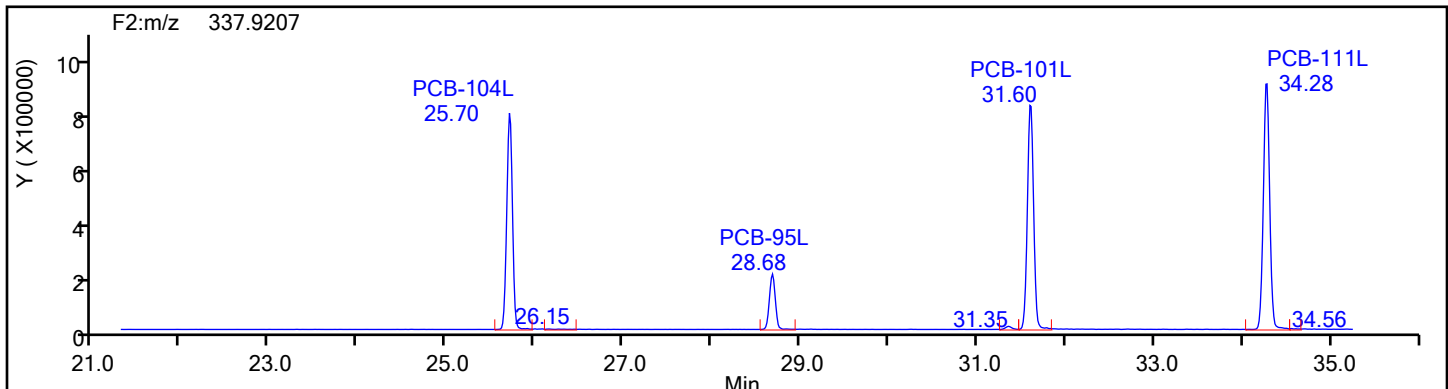
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

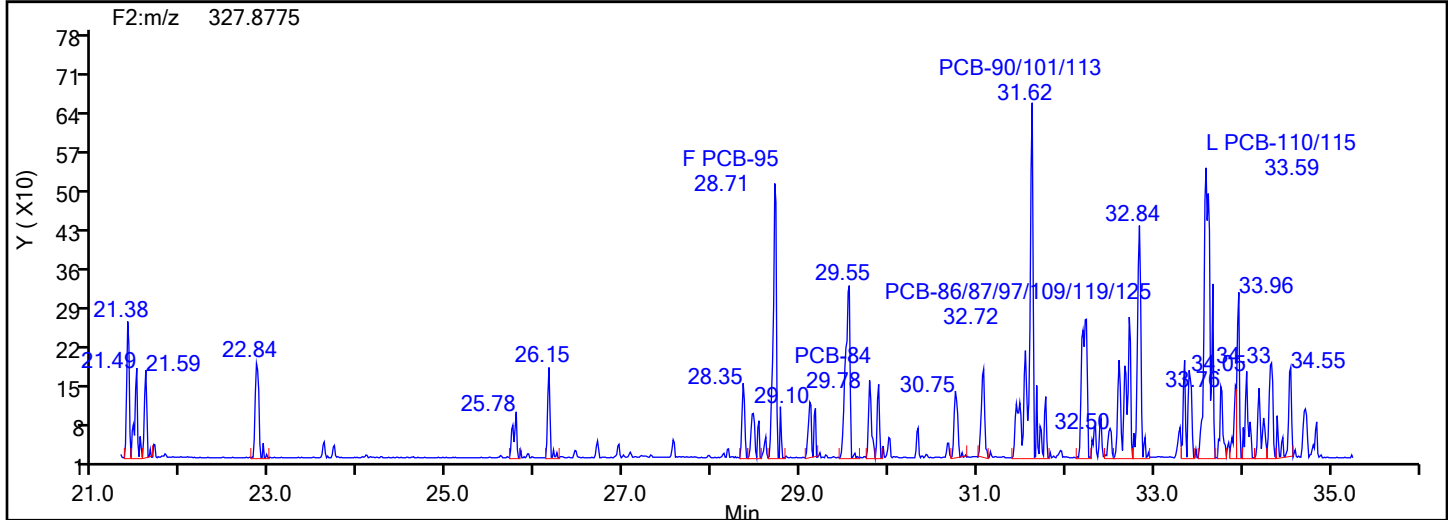
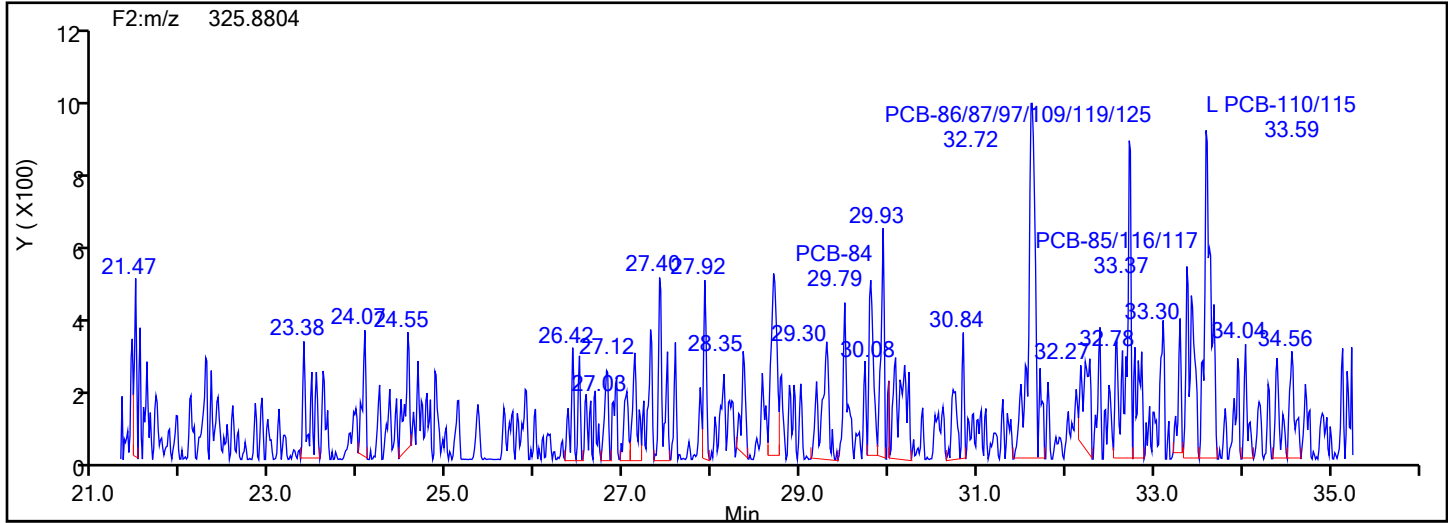


## PePCB F2 Standards

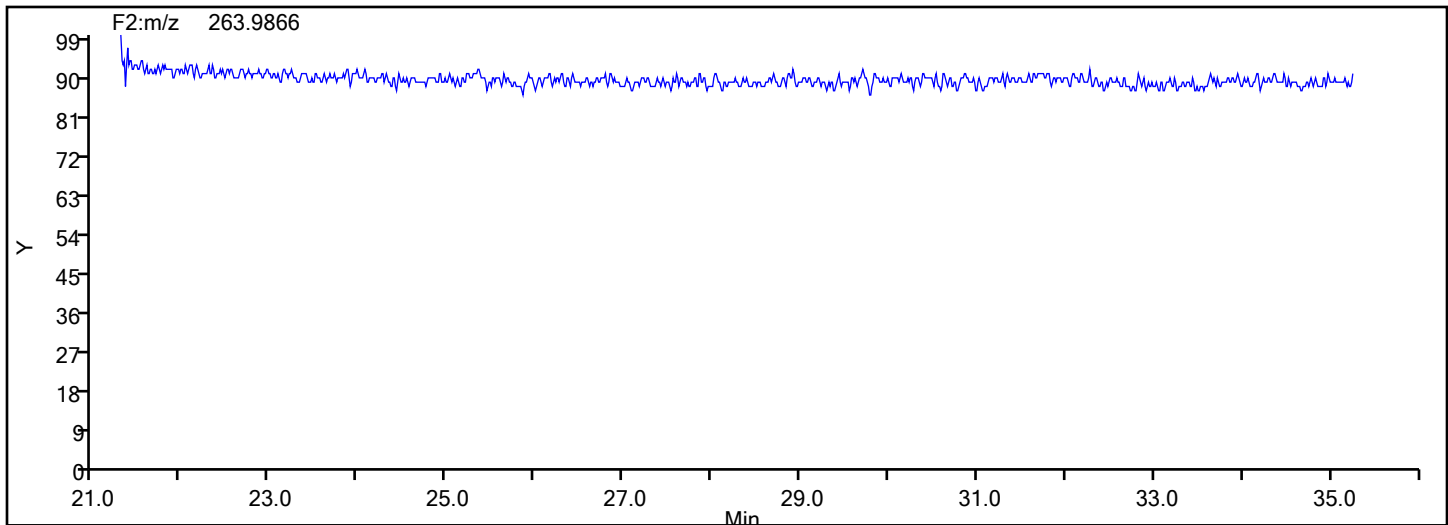


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

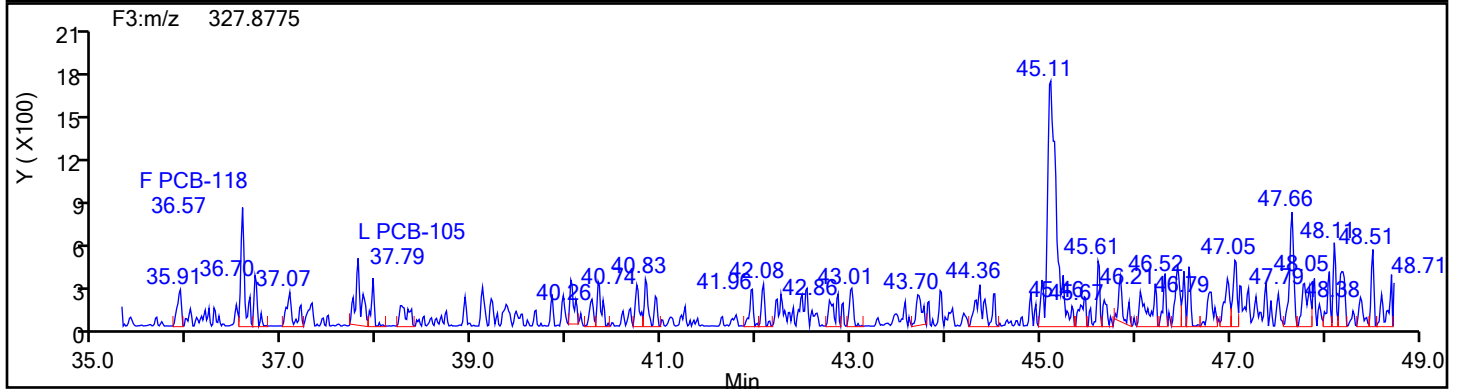
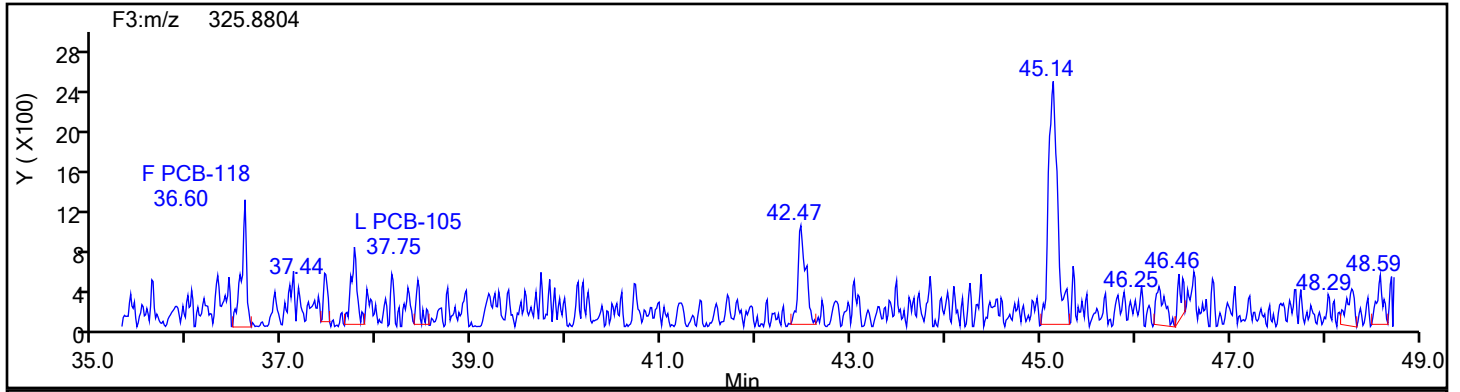


## PePCB F2 Lock Mass

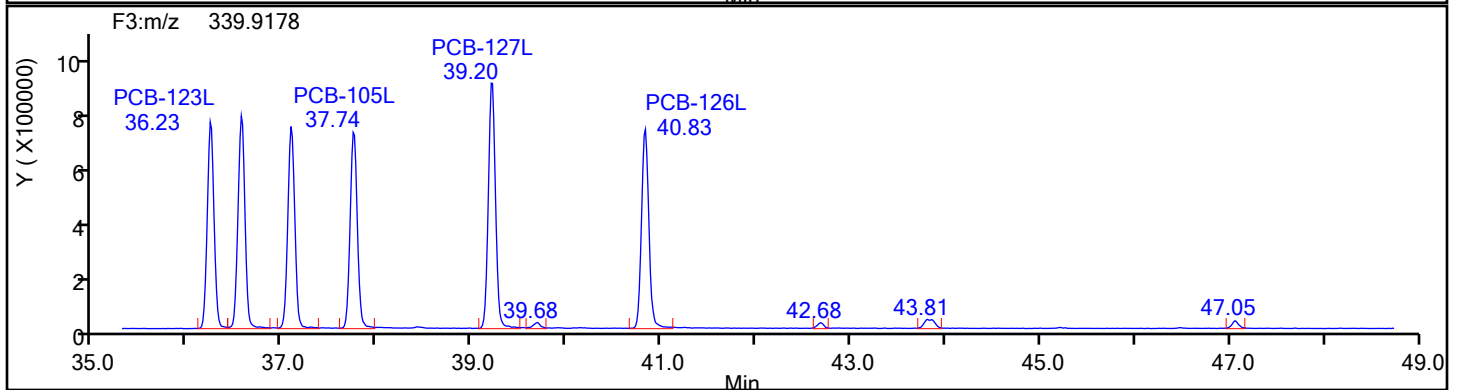
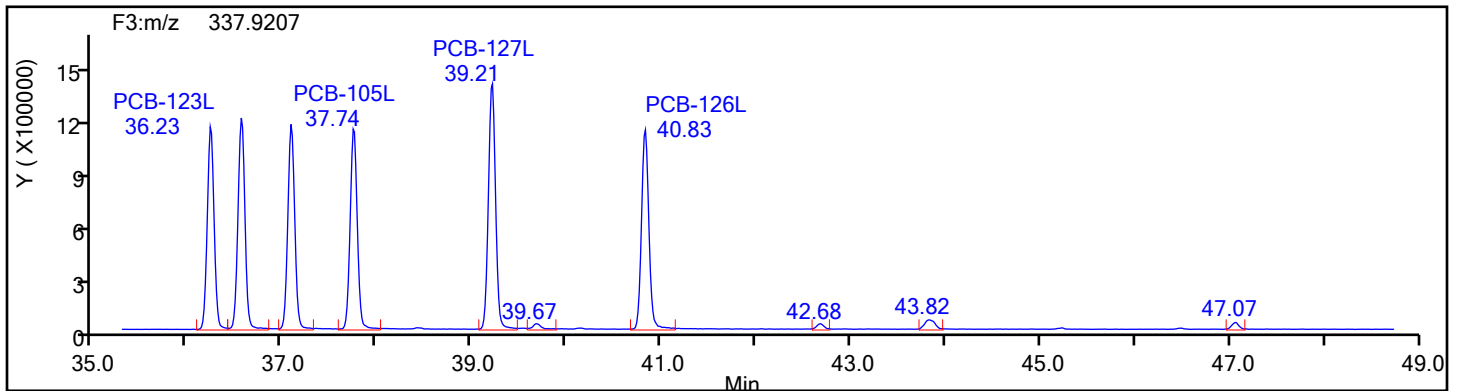


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

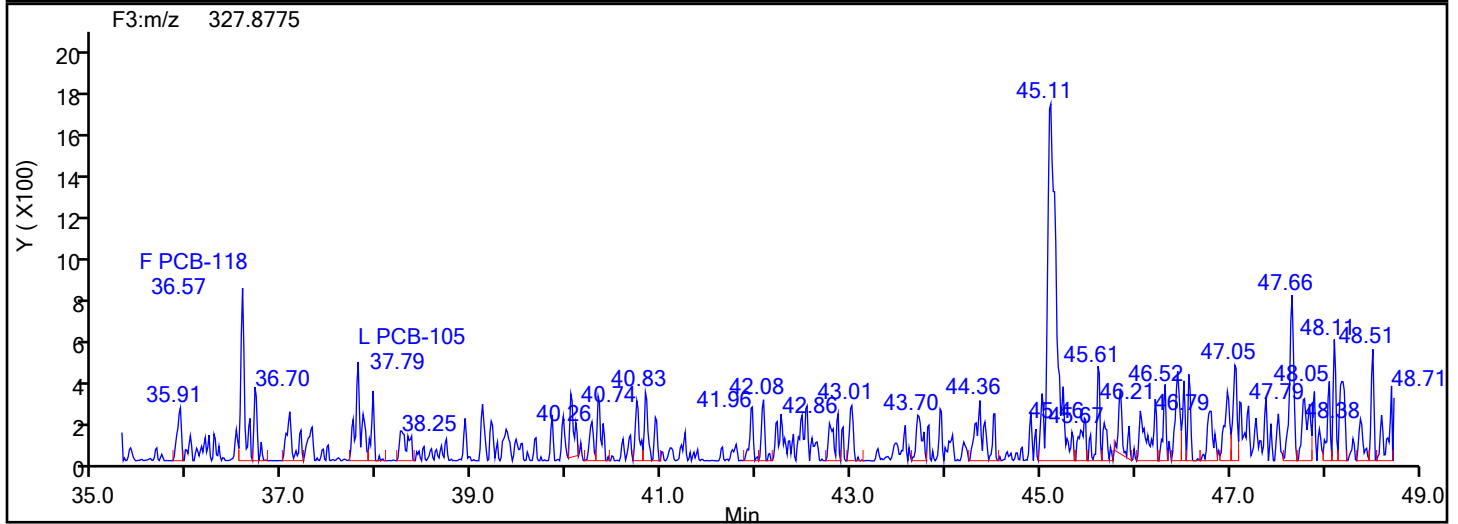
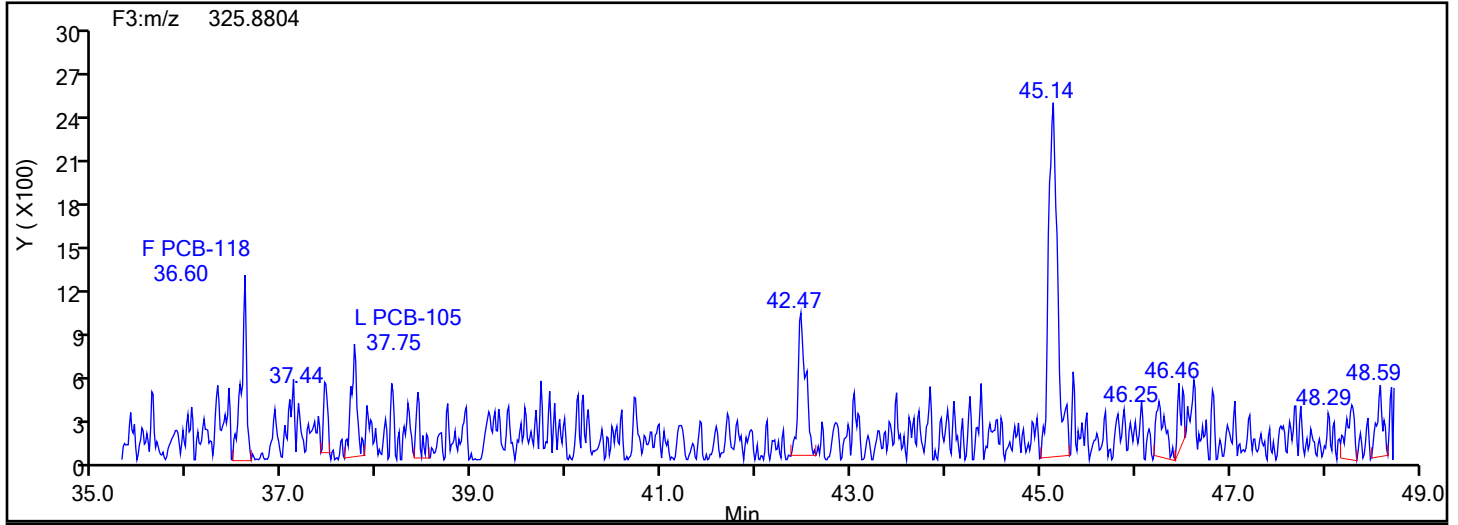


## PePCB F3 Standards

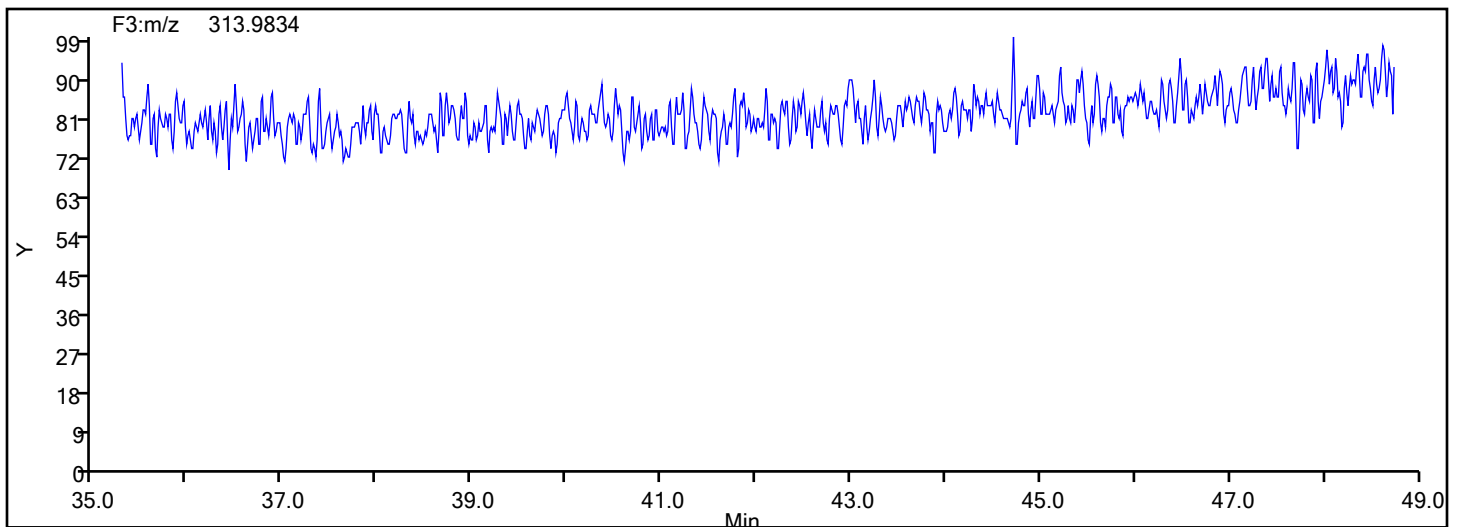


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

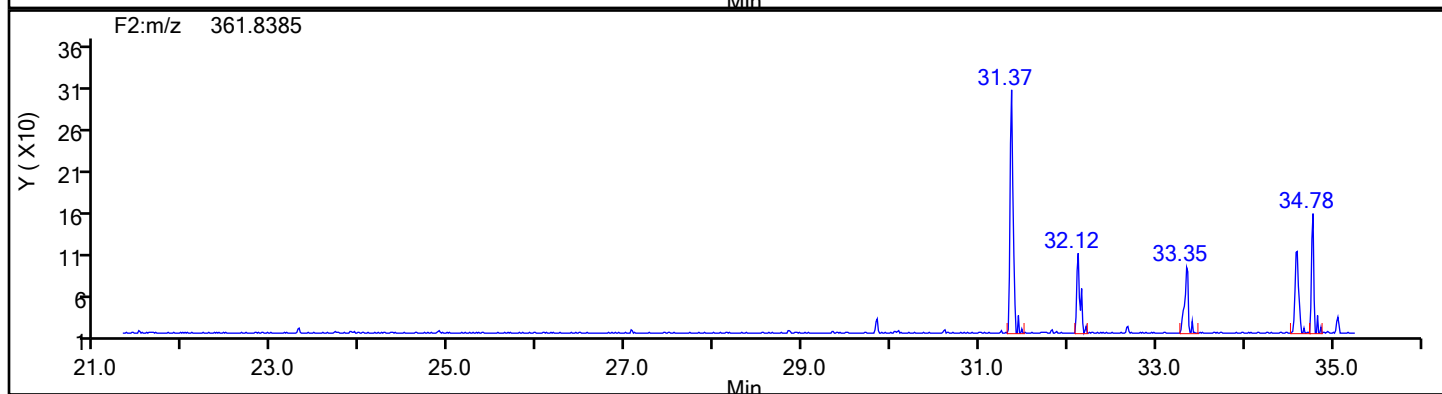
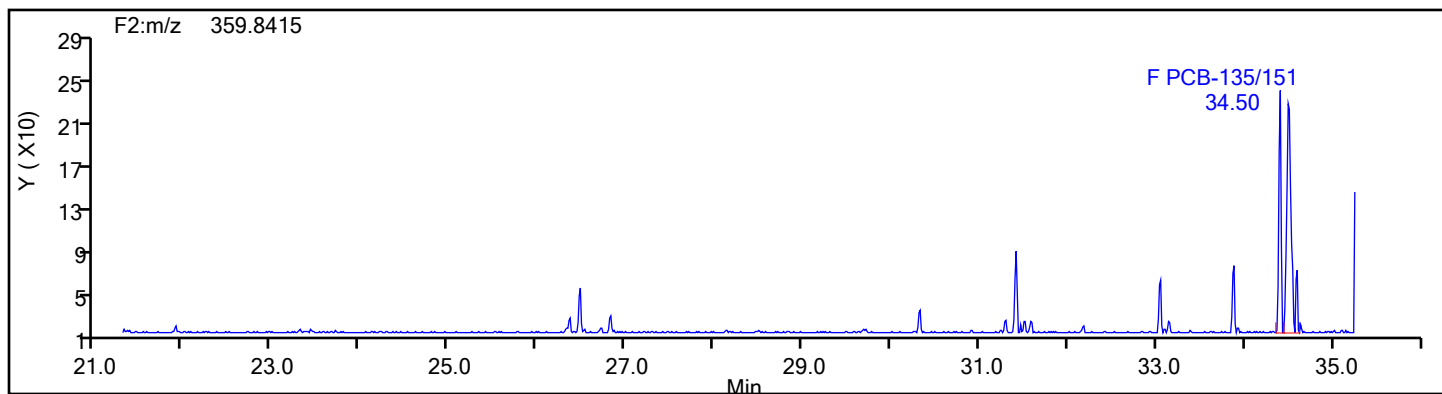


## PePCB F3 Lock Mass

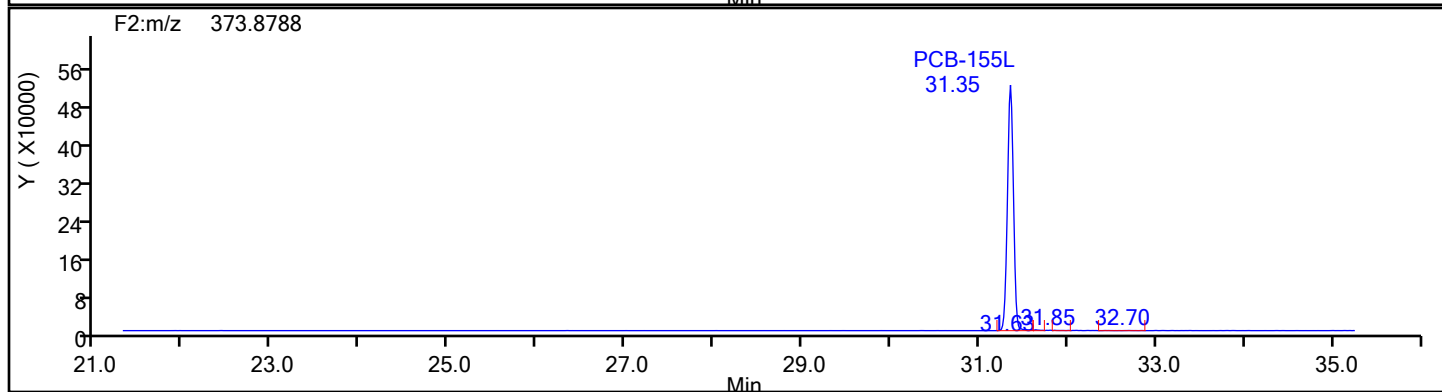
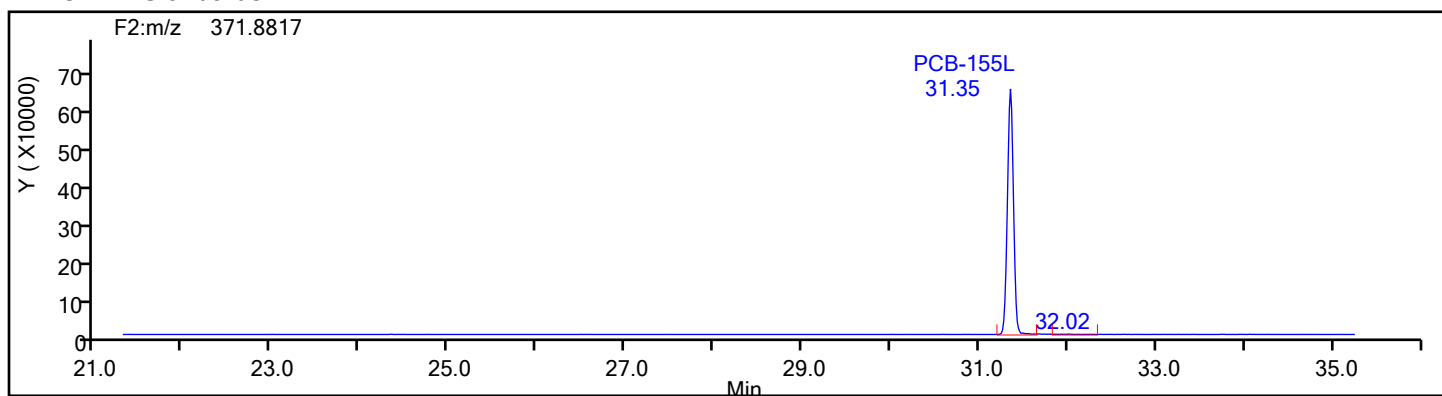


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

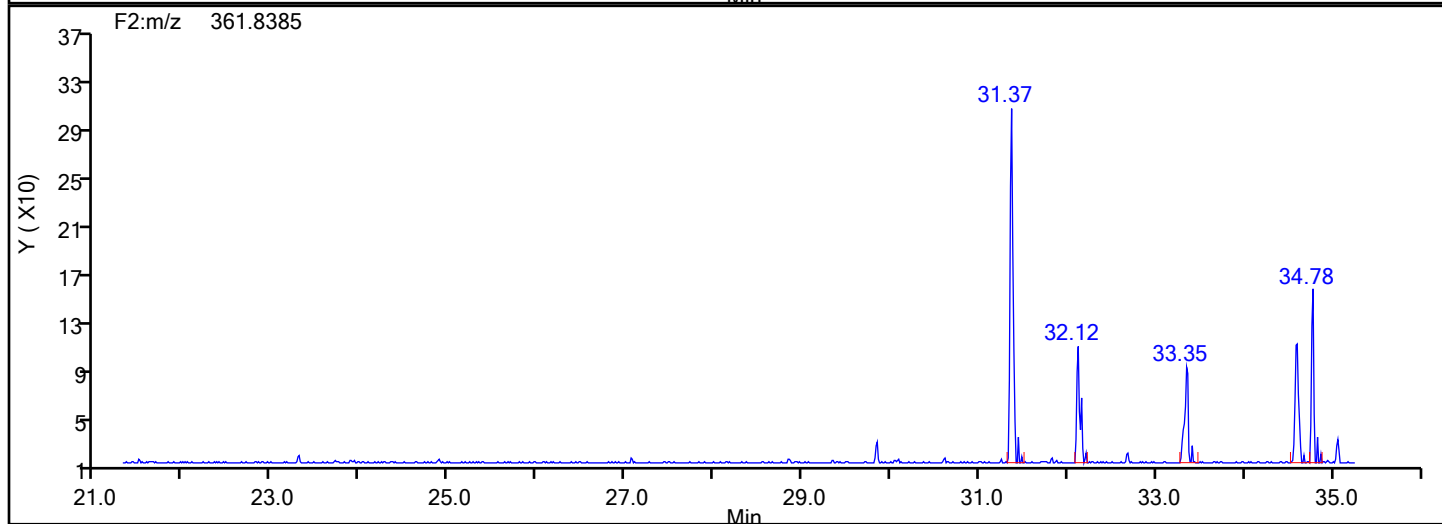
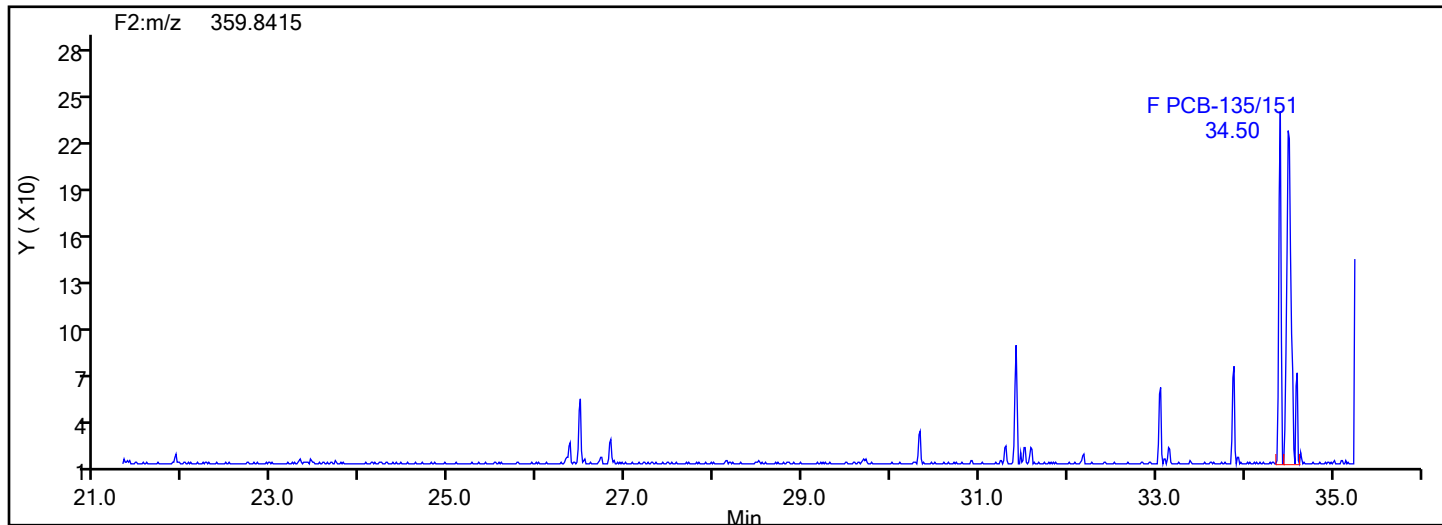


## HxPCB F2 Standards

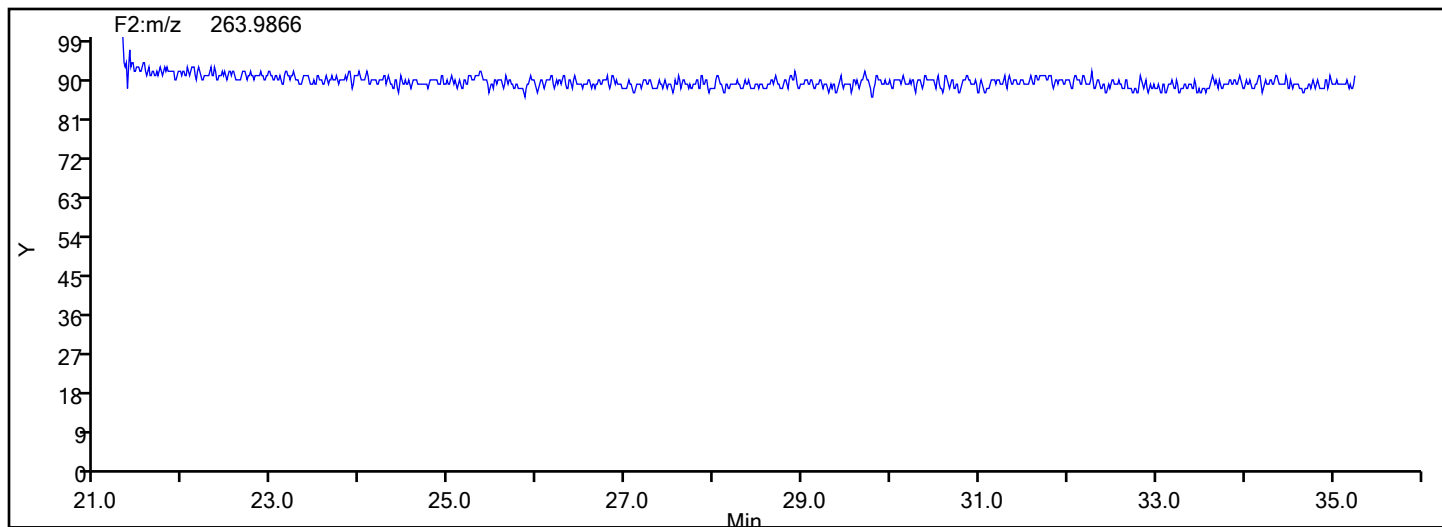


## Eurofins Knoxville

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Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



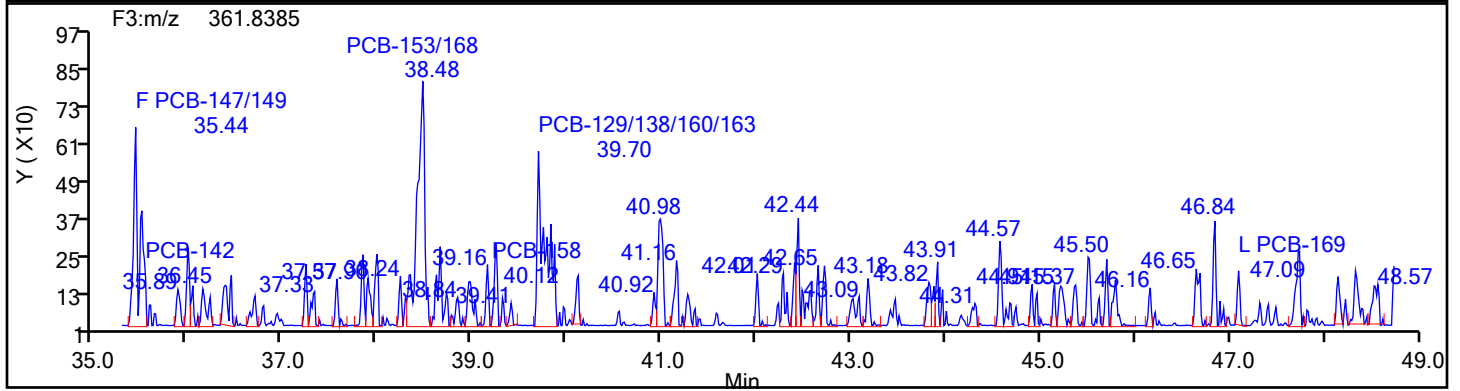
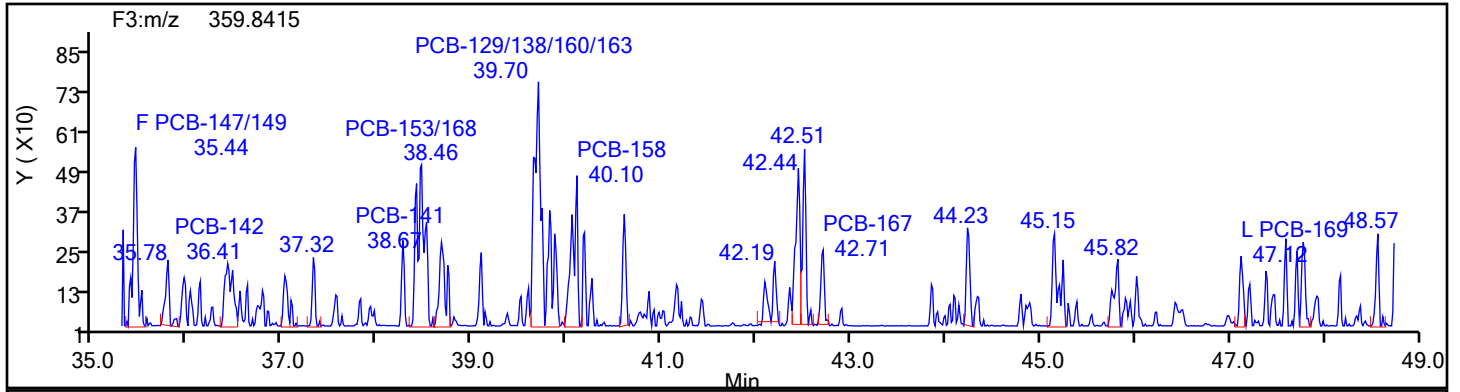
## HxPCB F2 Lock Mass



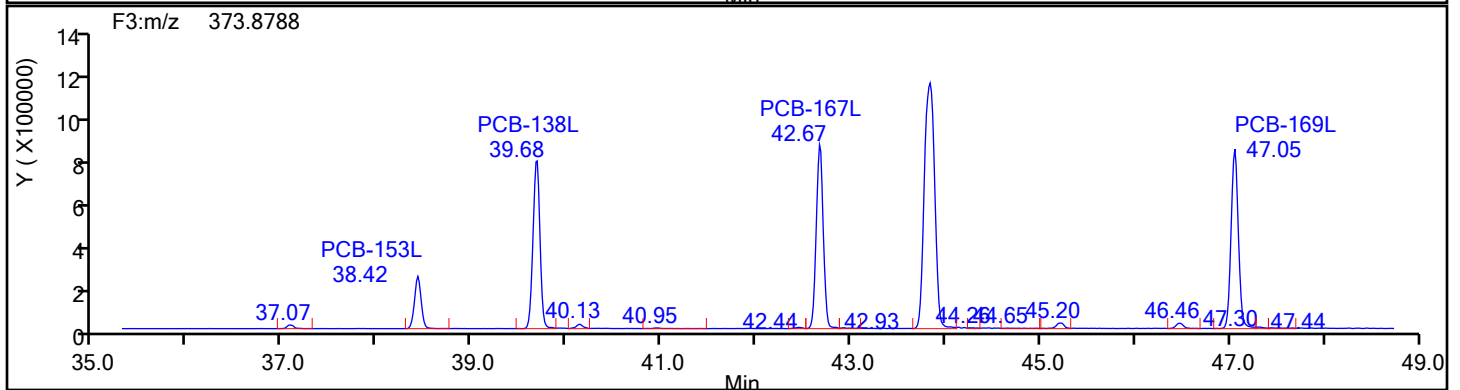
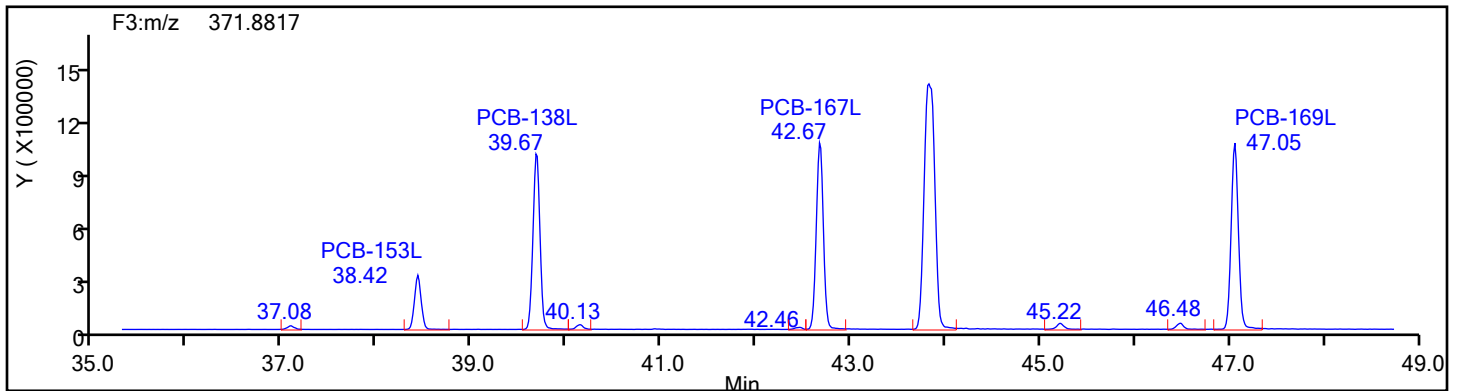


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3

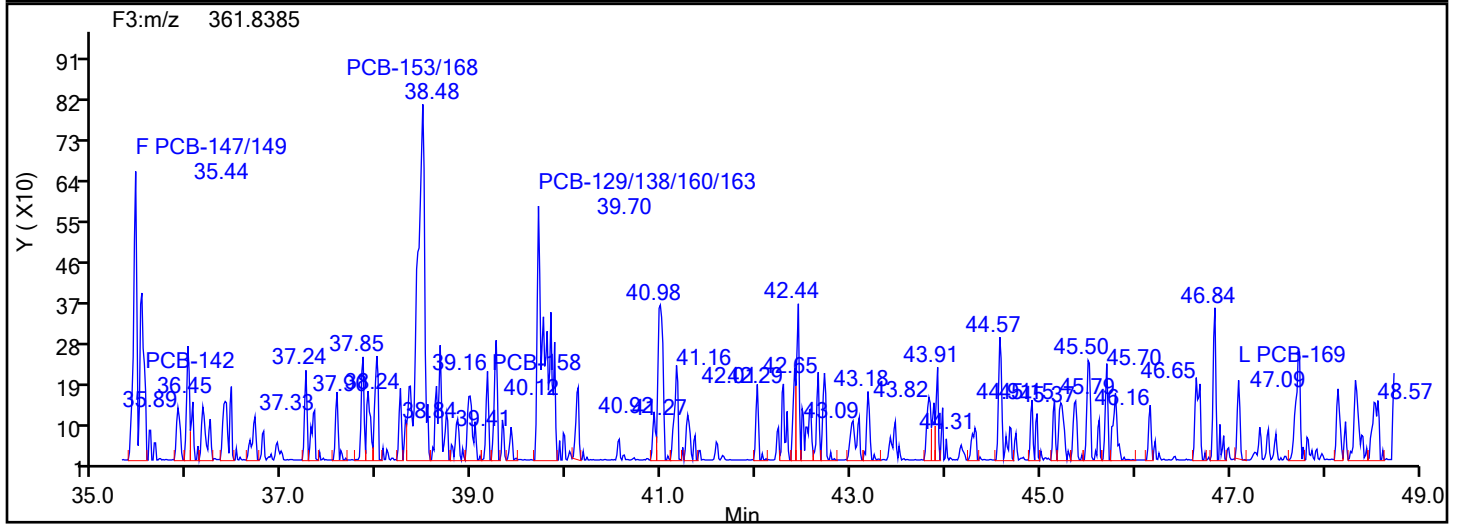
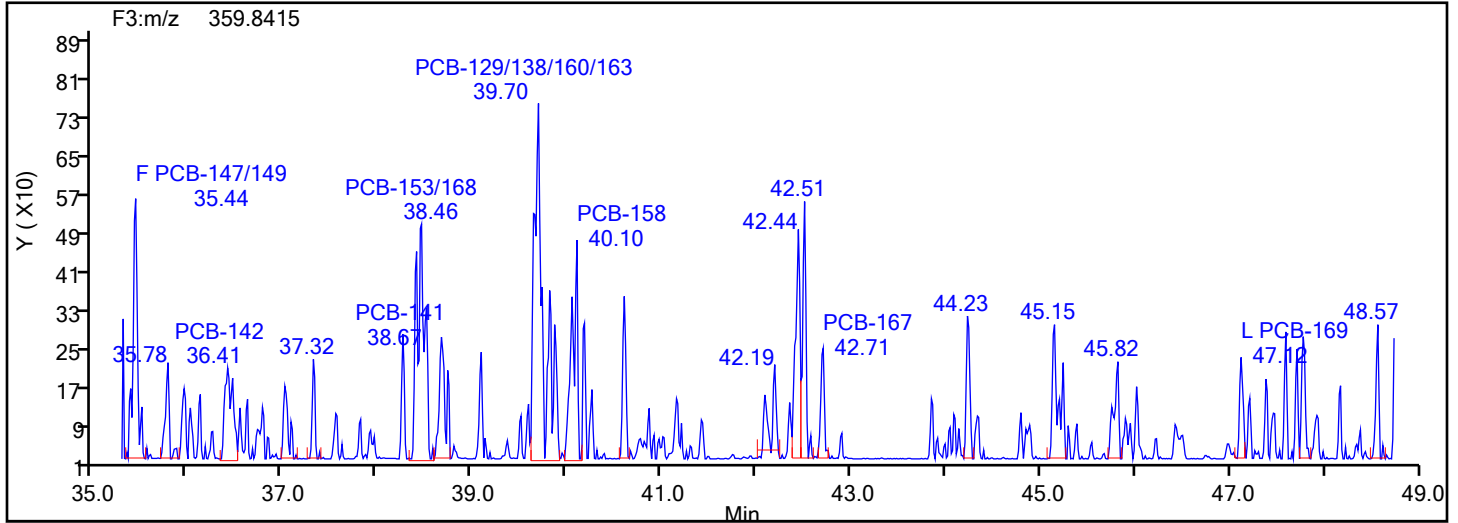


## HxPCB F3 Standards

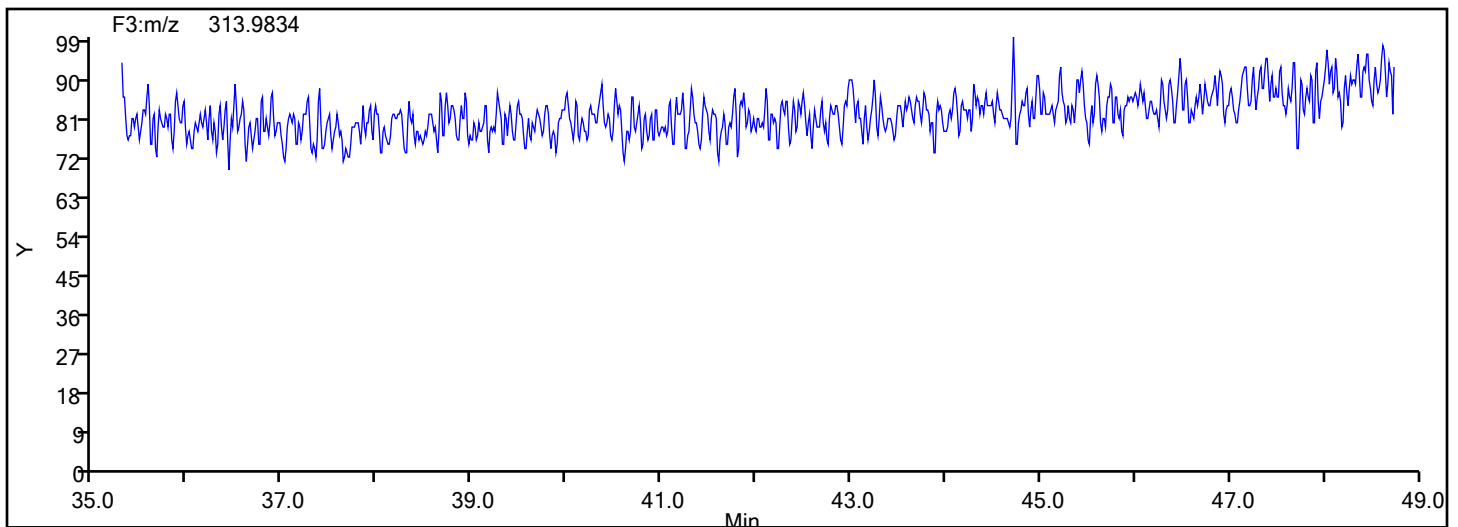


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

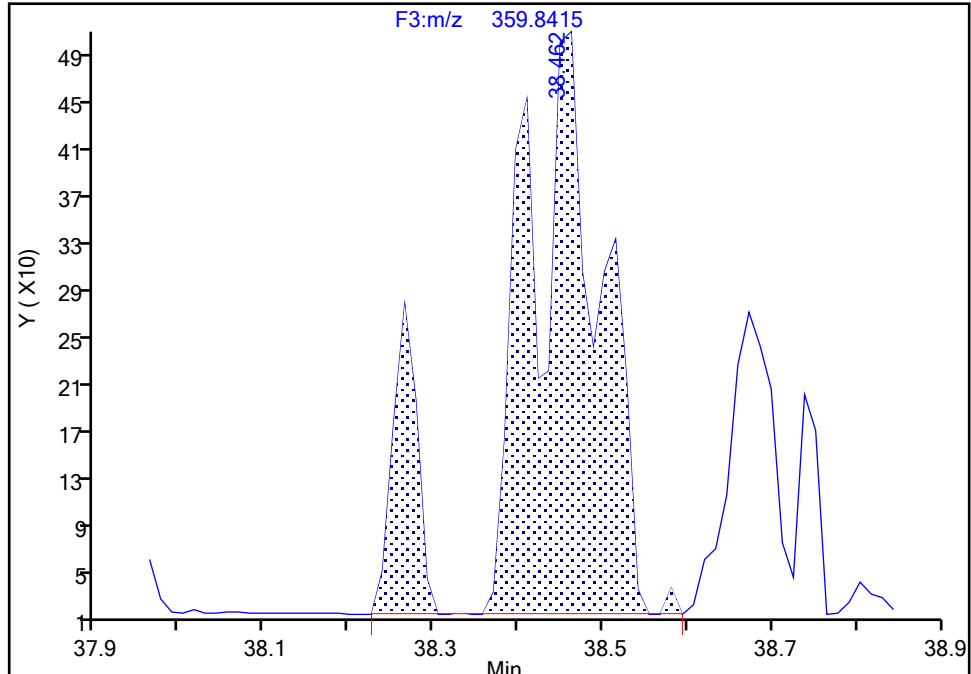
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Injection Date: 29-Jun-2024 03:19:00 Instrument ID: D2D  
Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1\IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

PCB-153/168, CAS: STL01822

Signal: 1

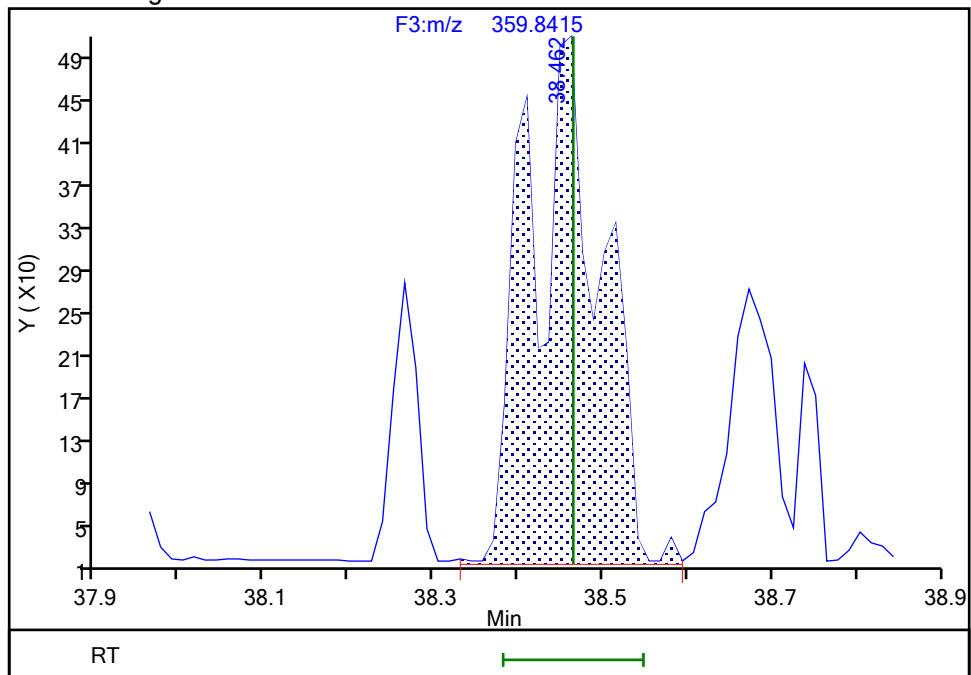
RT: 38.46  
Area: 3441  
Amount: 0.072304  
Amount Units: pg/ul

## Processing Integration Results



RT: 38.46  
Area: 2947  
Amount: 0.067721  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 16:03:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

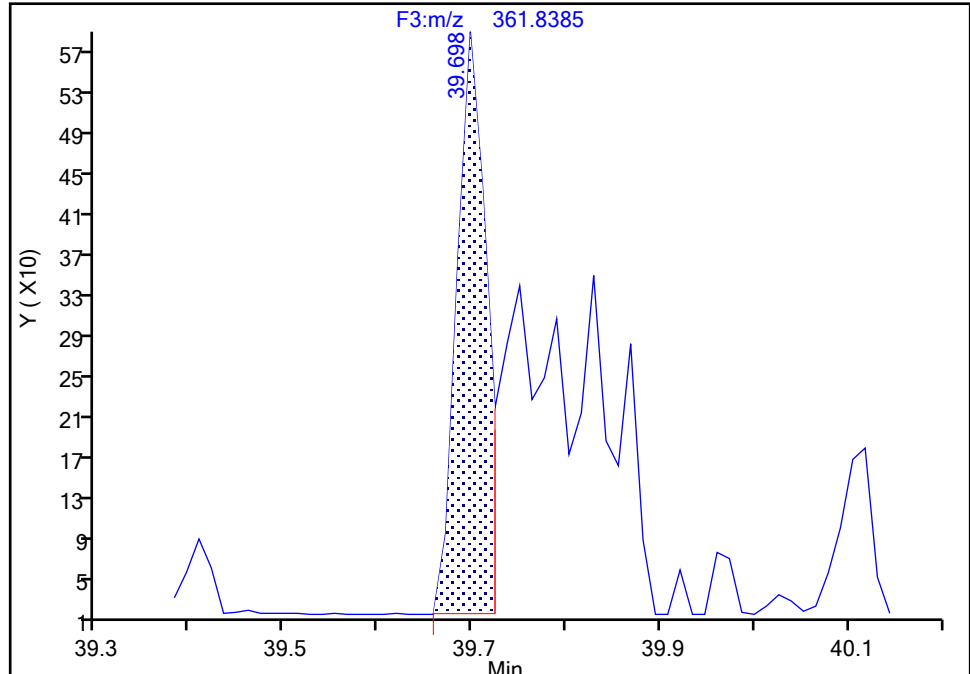
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Injection Date: 29-Jun-2024 03:19:00 Instrument ID: D2D  
Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

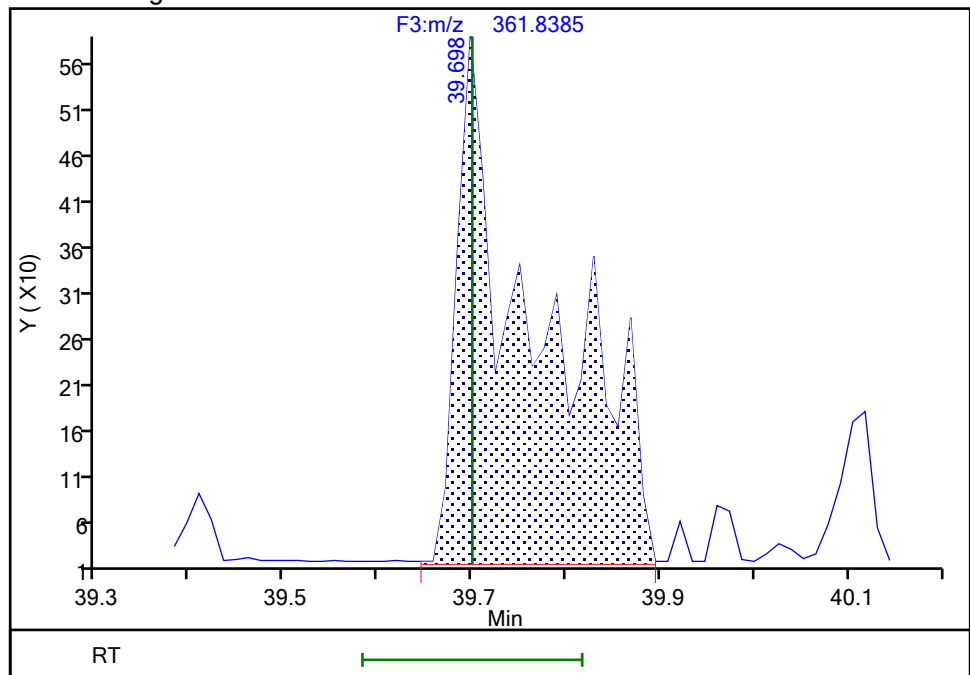
RT: 39.70  
Area: 1184  
Amount: 0.060616  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.70  
Area: 3364  
Amount: 0.091165  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 16:04:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

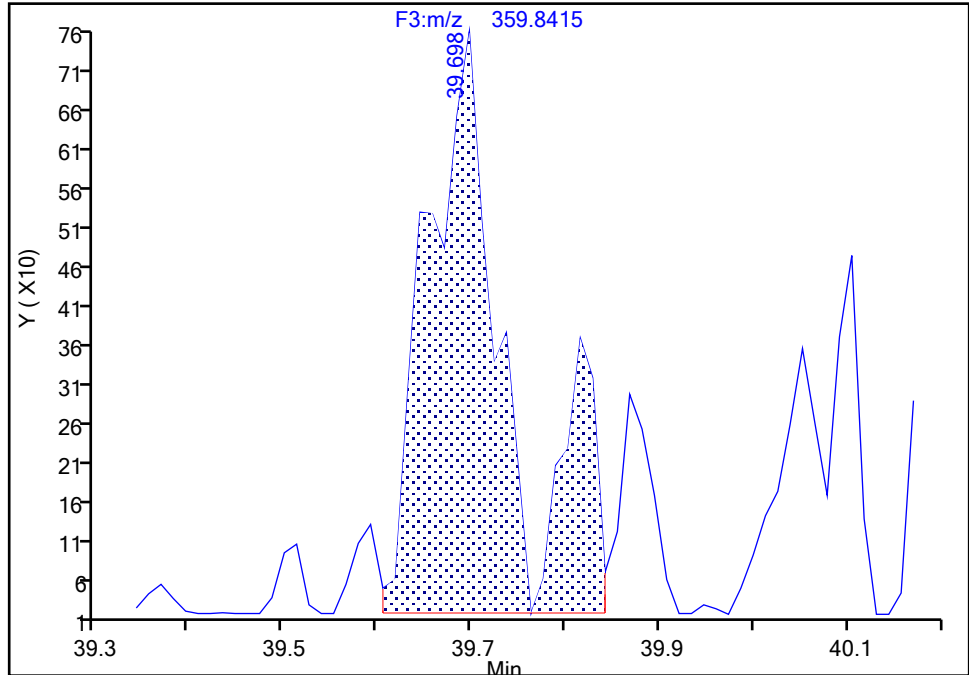
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Injection Date: 29-Jun-2024 03:19:00 Instrument ID: D2D  
Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

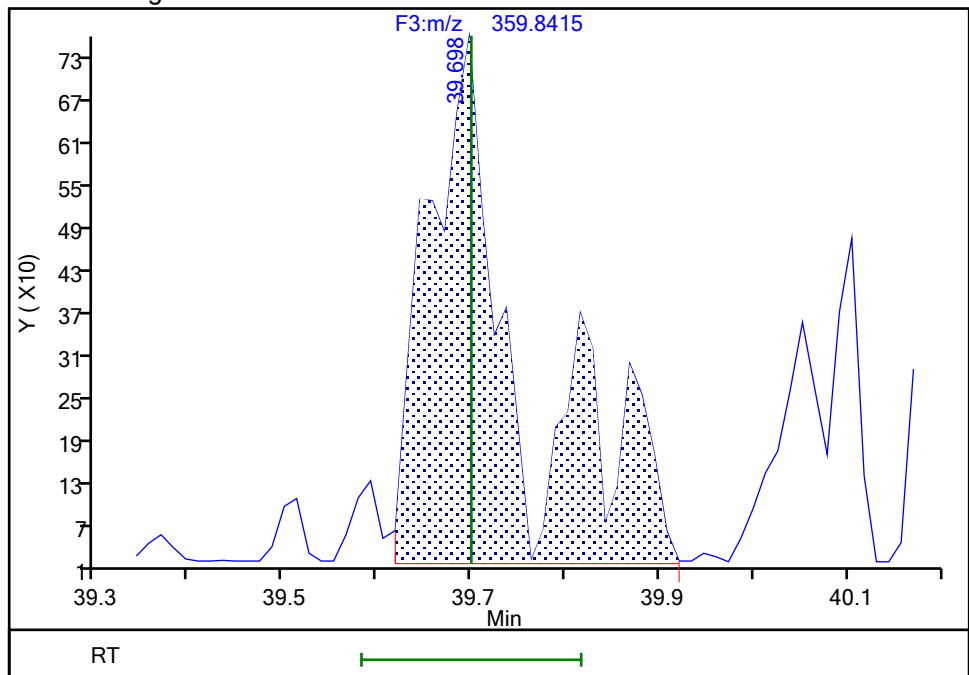
RT: 39.70  
Area: 4469  
Amount: 0.060616  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.70  
Area: 5138  
Amount: 0.091165  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 16:04:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

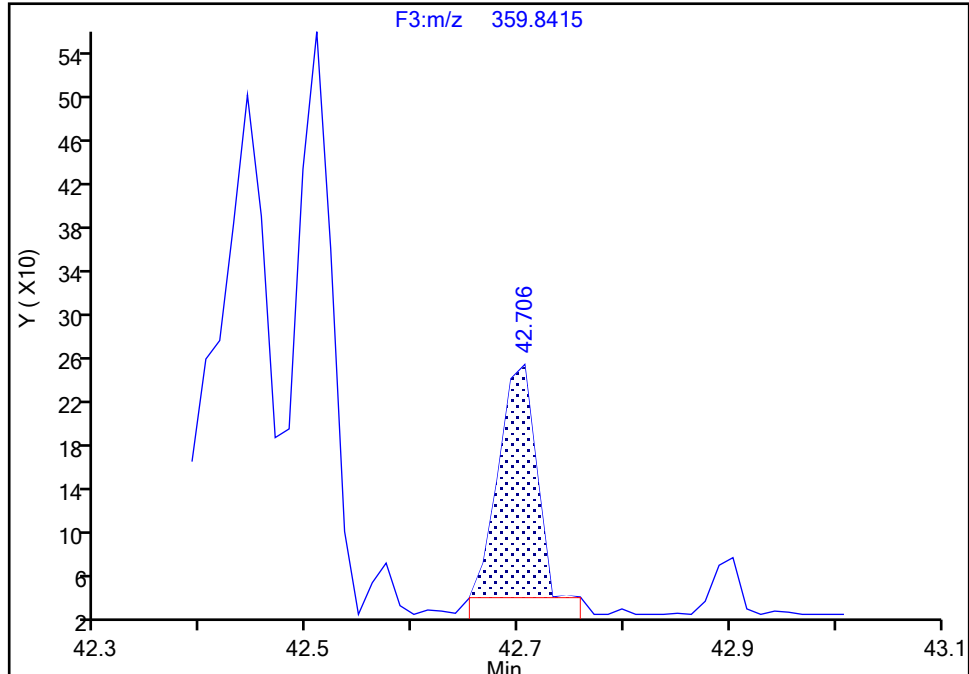
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Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-167, CAS: 52663-72-6**

Signal: 1

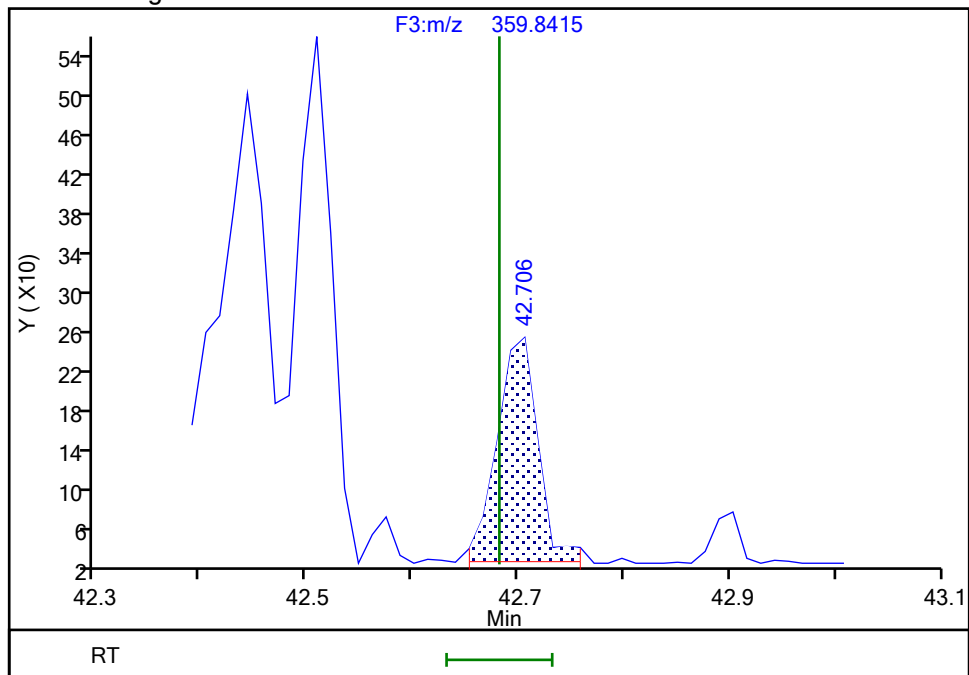
RT: 42.71  
Area: 517  
Amount: 0.008813  
Amount Units: pg/ul

## Processing Integration Results



RT: 42.71  
Area: 609  
Amount: 0.009651  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 16:04:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

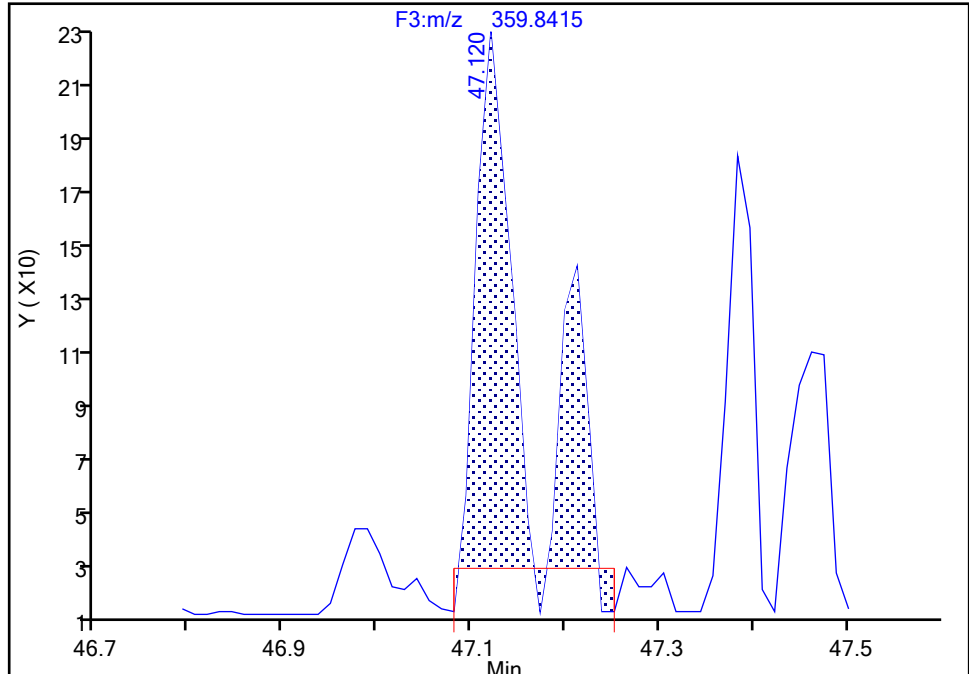
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Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

## PCB-169, CAS: 32774-16-6

Signal: 1

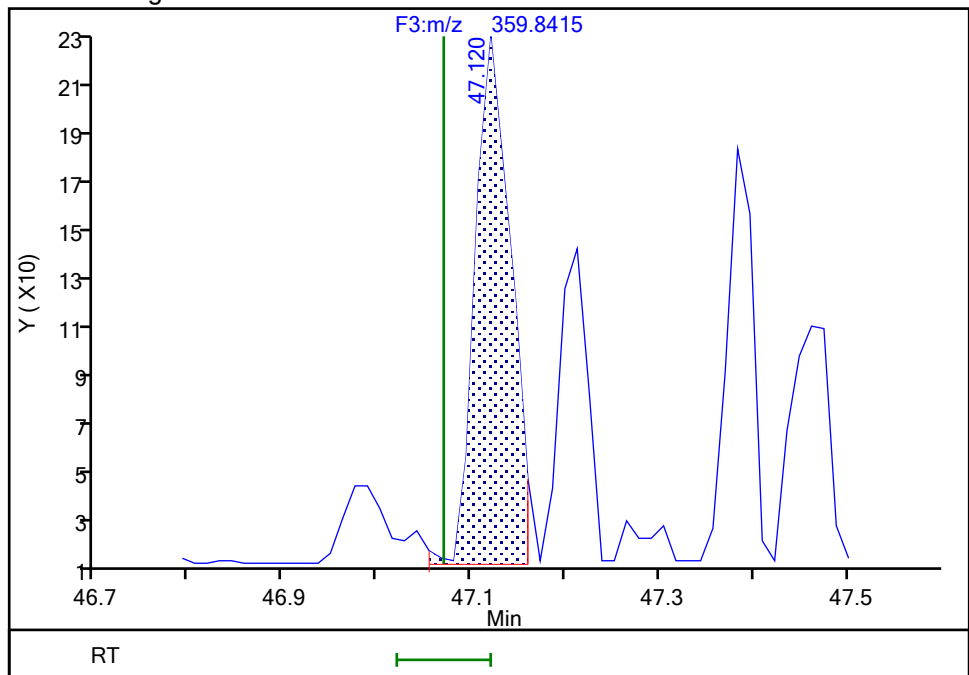
RT: 47.12  
Area: 647  
Amount: 0.008427  
Amount Units: pg/ul

## Processing Integration Results



RT: 47.12  
Area: 547  
Amount: 0.007568  
Amount Units: pg/ul

## Manual Integration Results



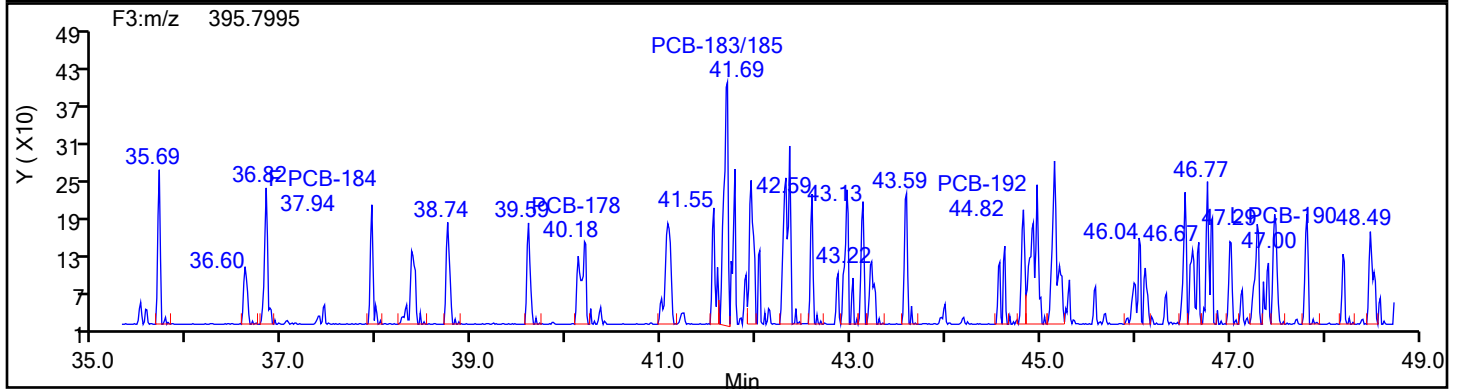
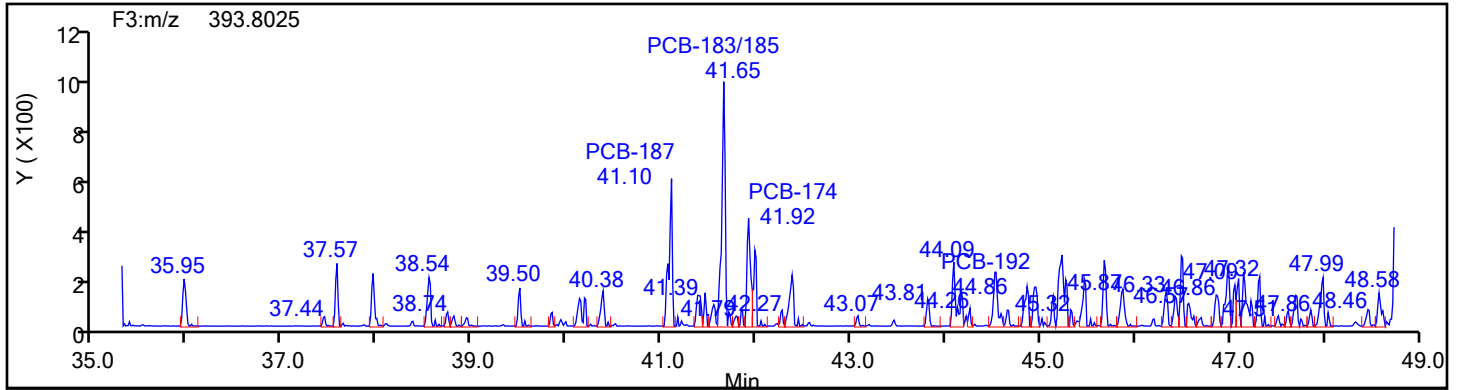
Reviewer: P0IK, 29-Jun-2024 16:04:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

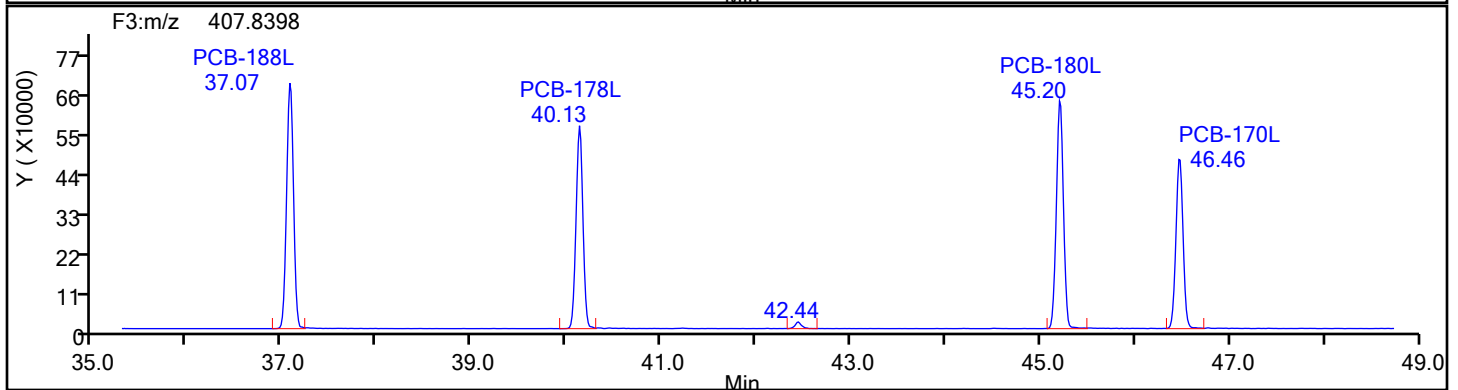
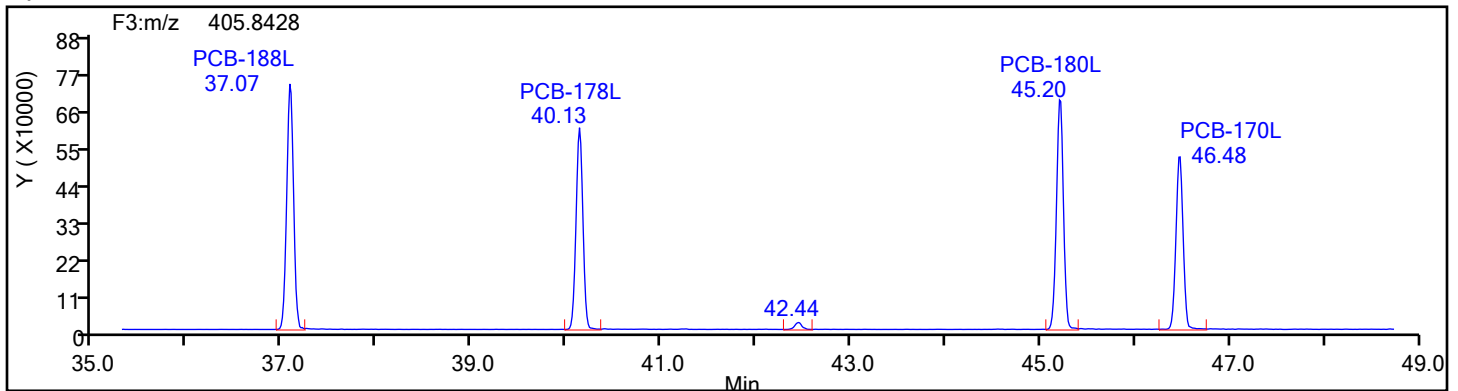
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3



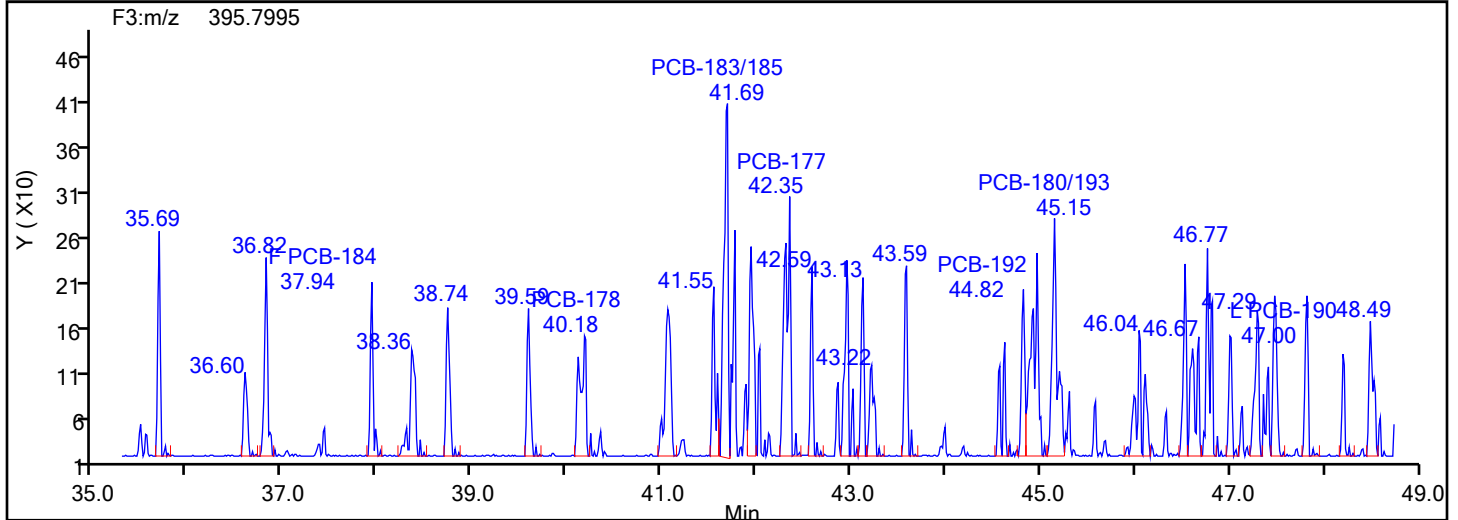
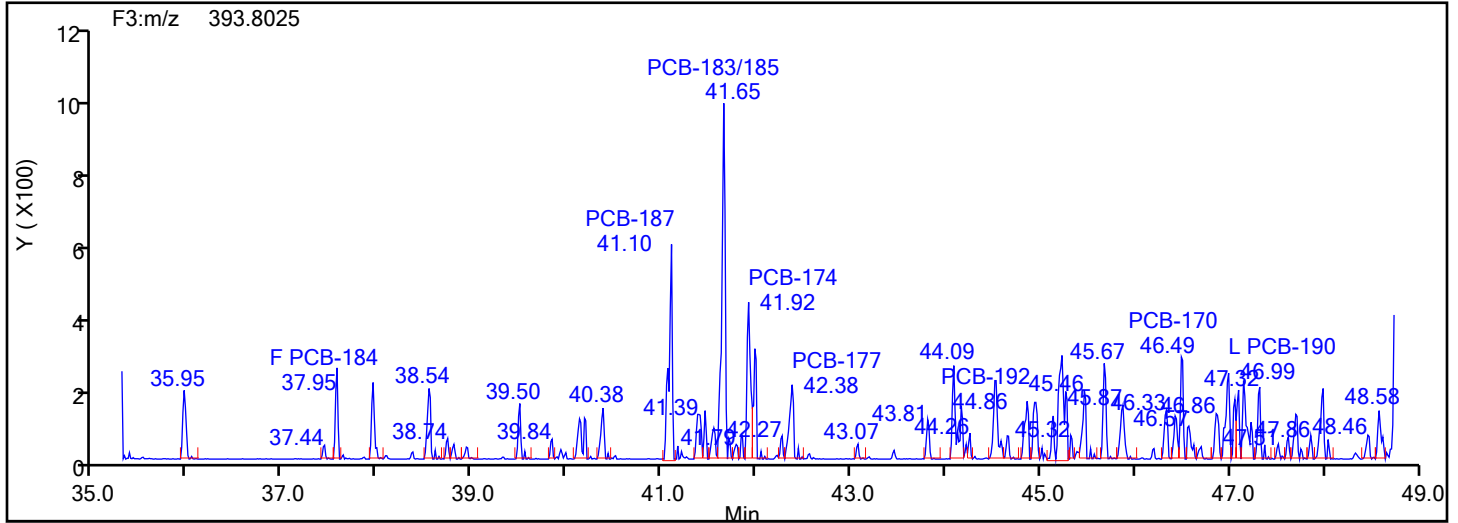
## HpPCB F3 Standards



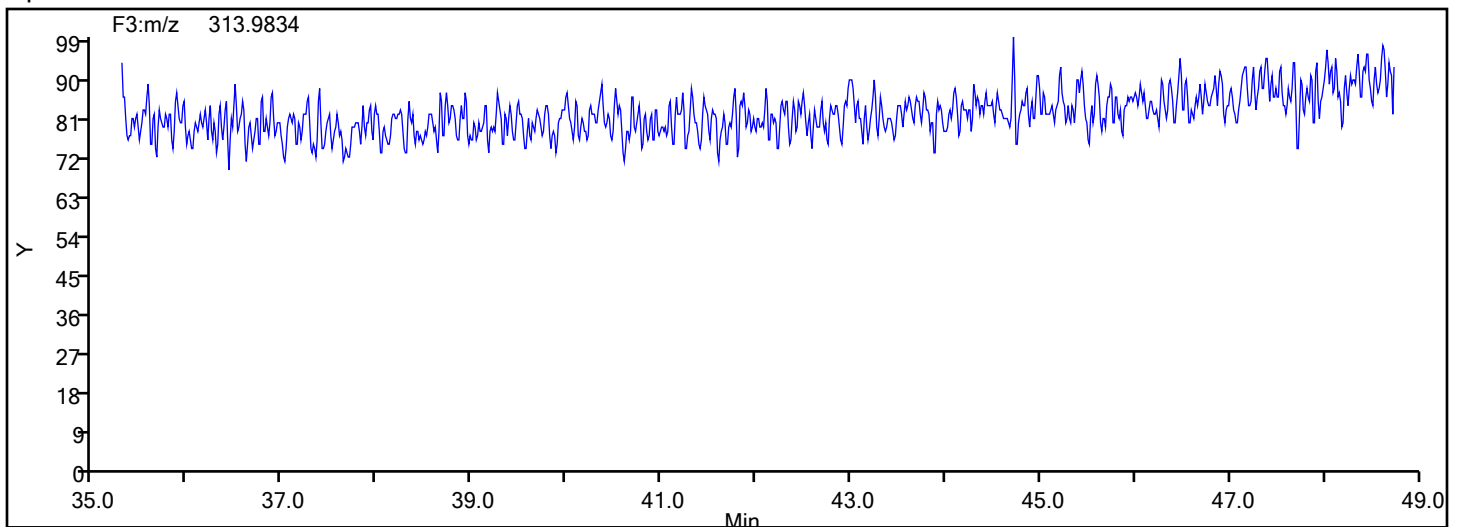


## Eurofins Knoxville

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Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

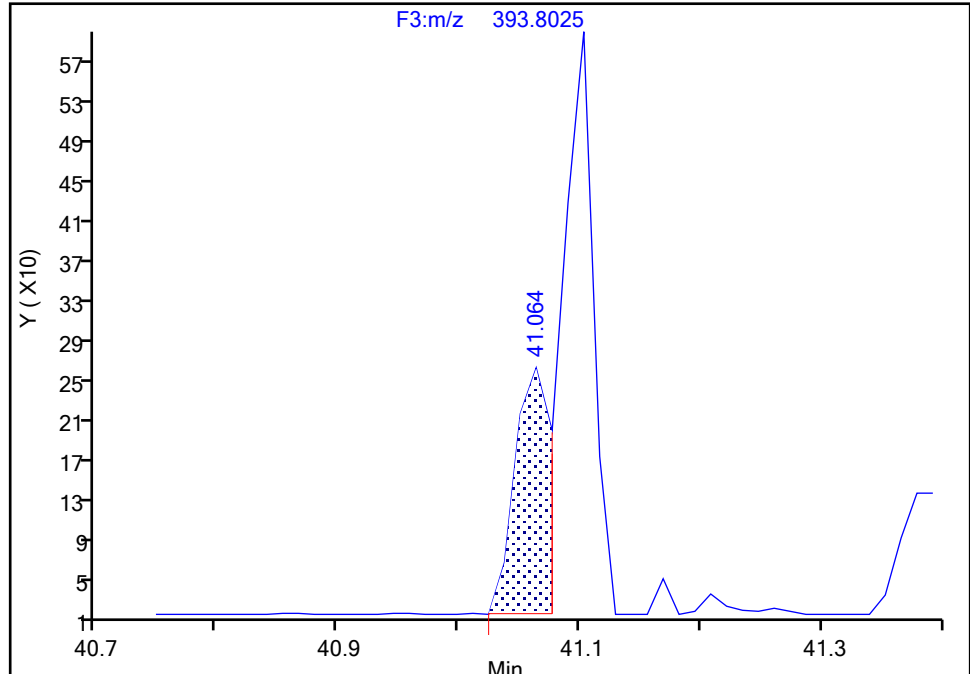
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Injection Date: 29-Jun-2024 03:19:00 Instrument ID: D2D  
Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-187, CAS: 52663-68-0**

Signal: 1

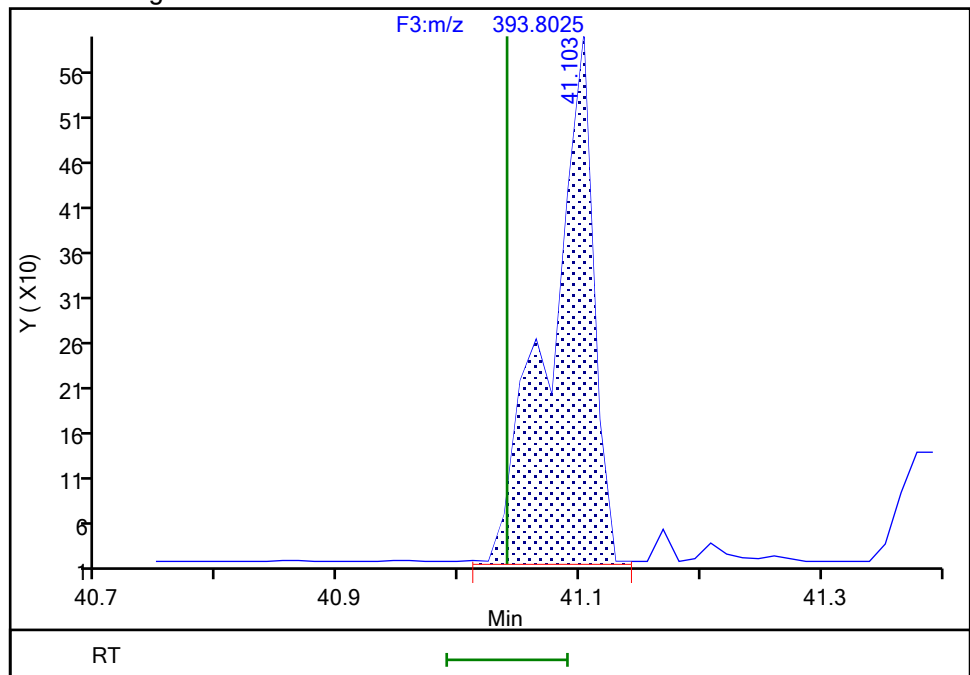
RT: 41.06  
Area: 457  
Amount: 0.016907  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.10  
Area: 1435  
Amount: 0.031137  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 16:05:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

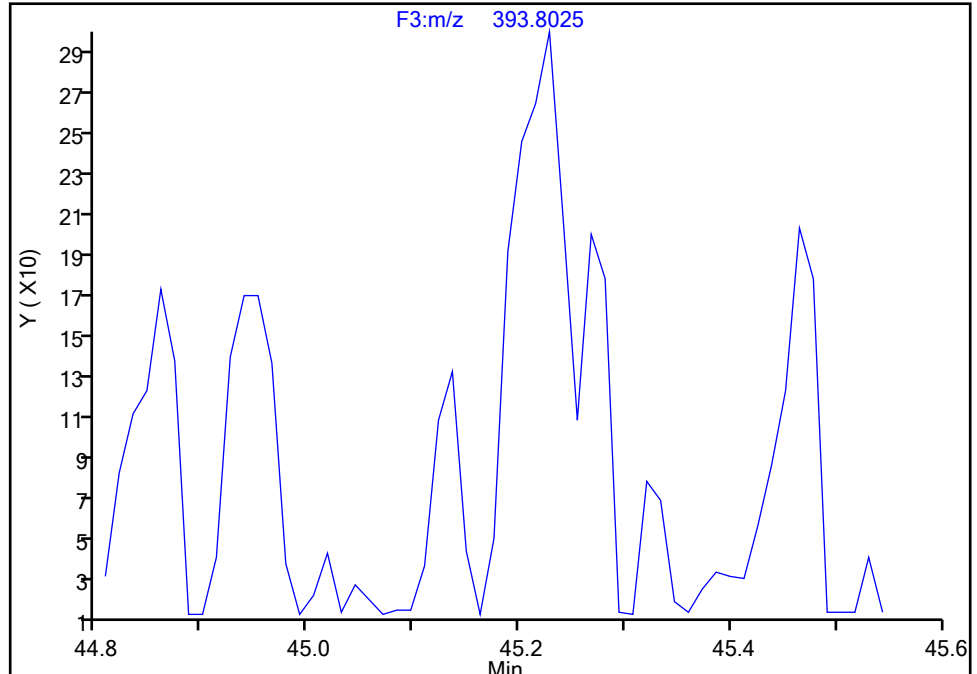
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Injection Date: 29-Jun-2024 03:19:00 Instrument ID: D2D  
Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

PCB-180/193, CAS: STL01824

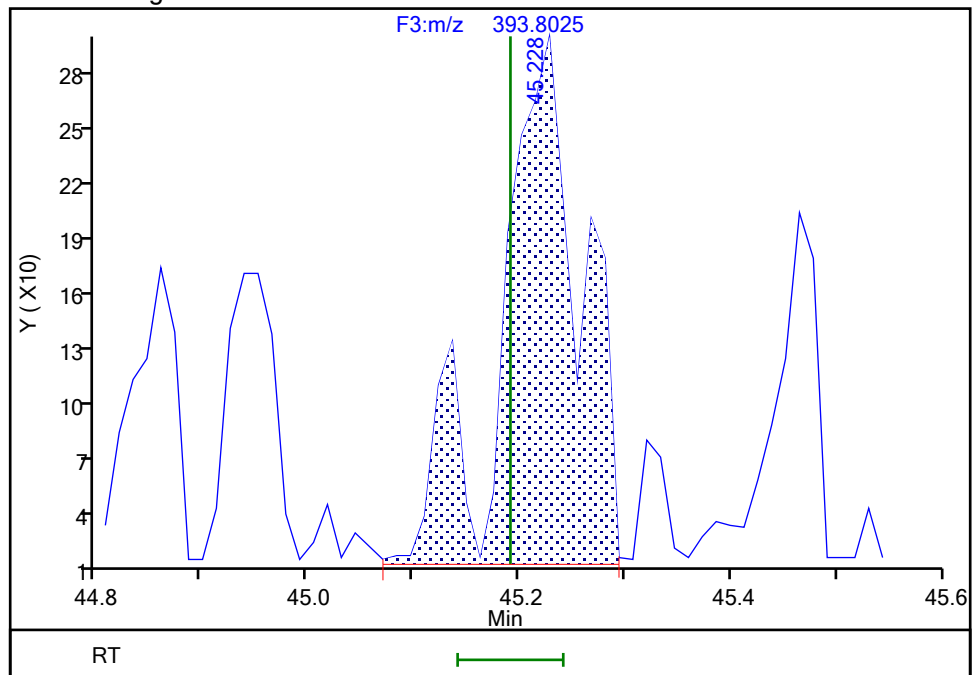
Signal: 1

Not Detected  
Expected RT: 45.19

## Processing Integration Results



## Manual Integration Results



RT: 45.23  
Area: 1471  
Amount: 0.033956  
Amount Units: pg/ul

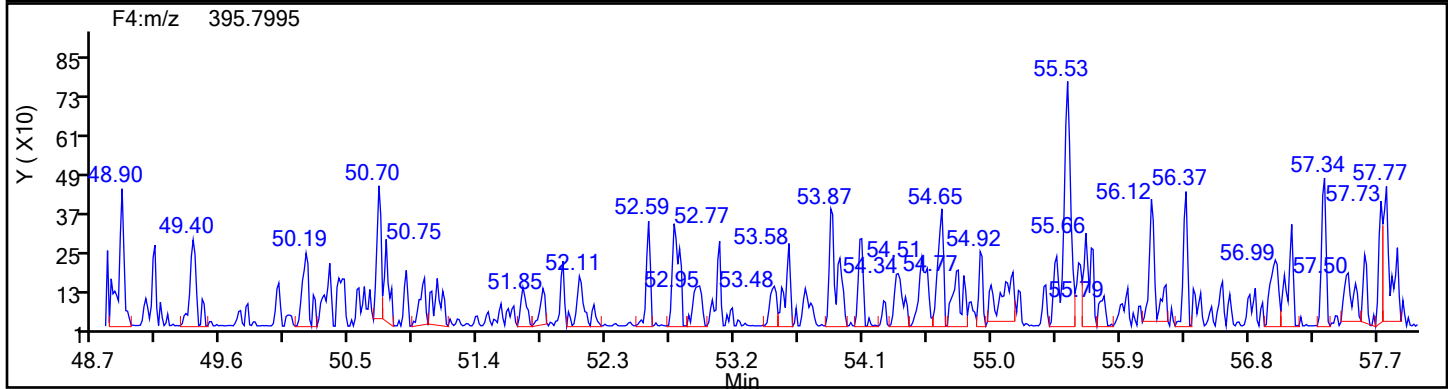
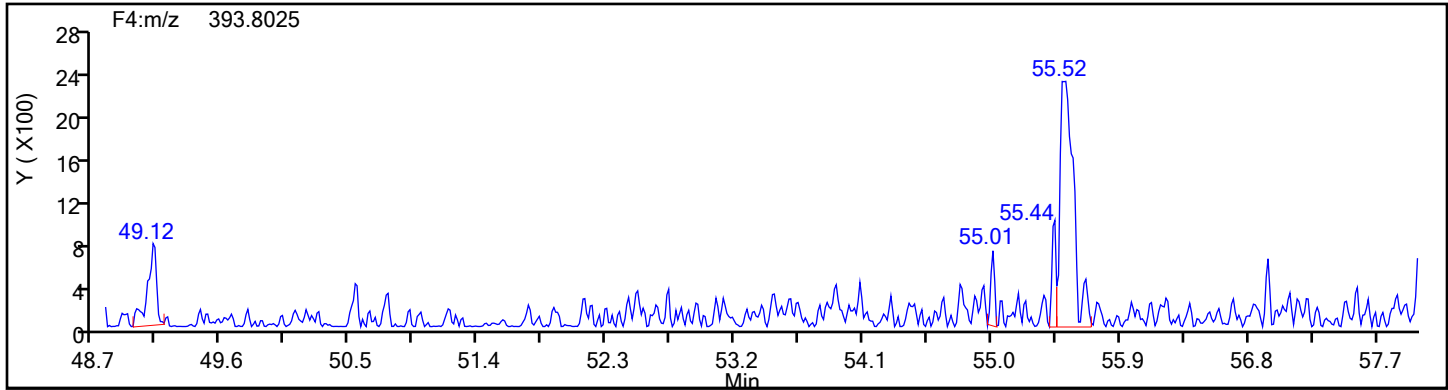
Reviewer: P0IK, 29-Jun-2024 16:06:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

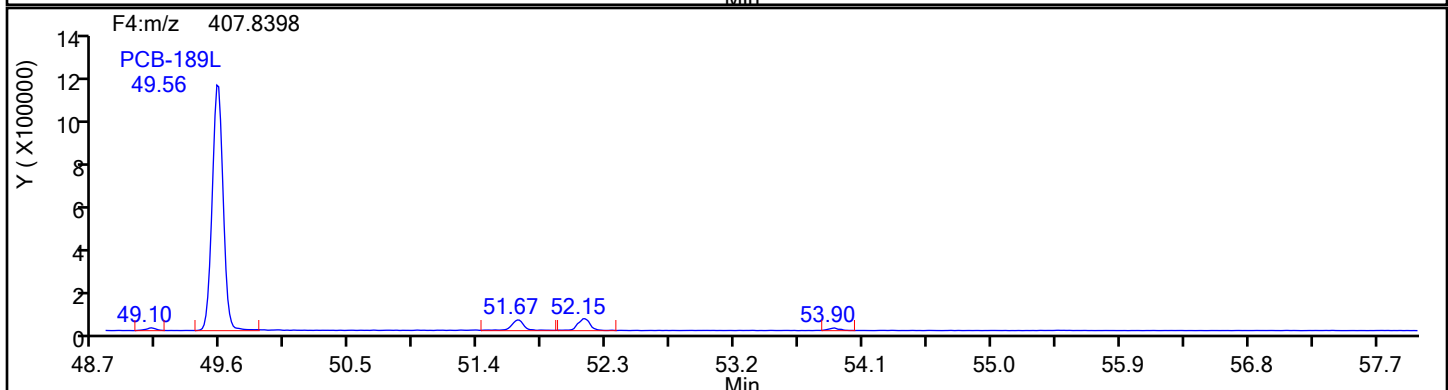
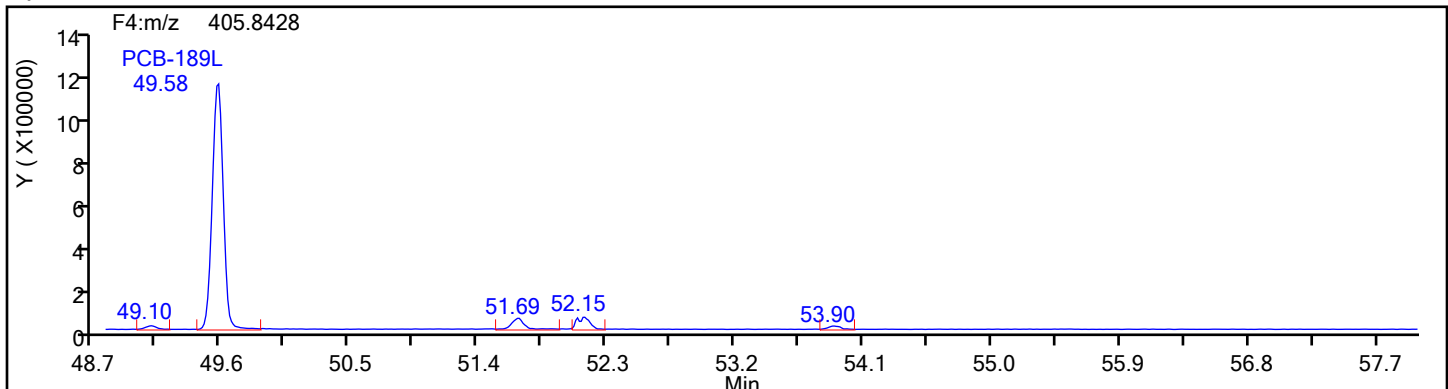
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

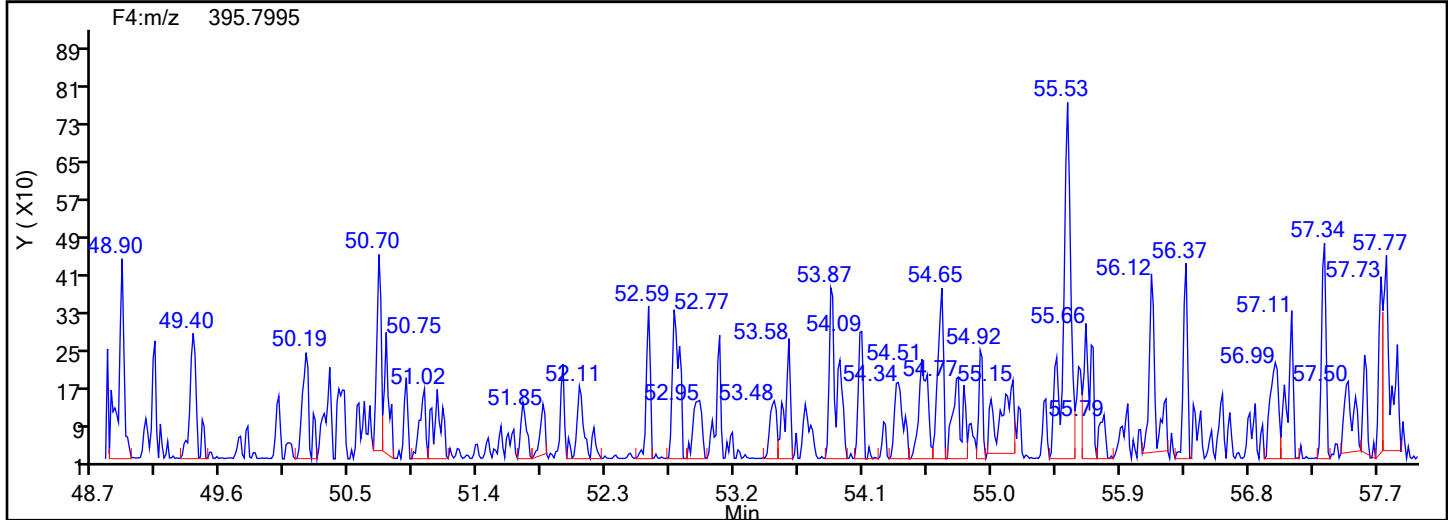
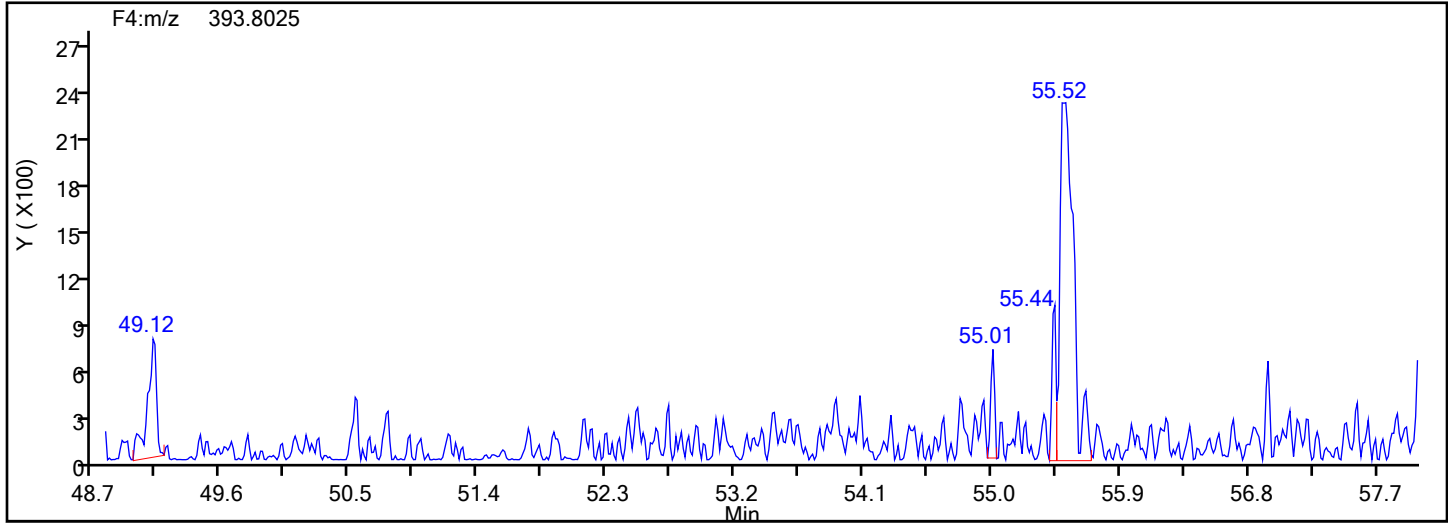


## HpPCB F4 Standards

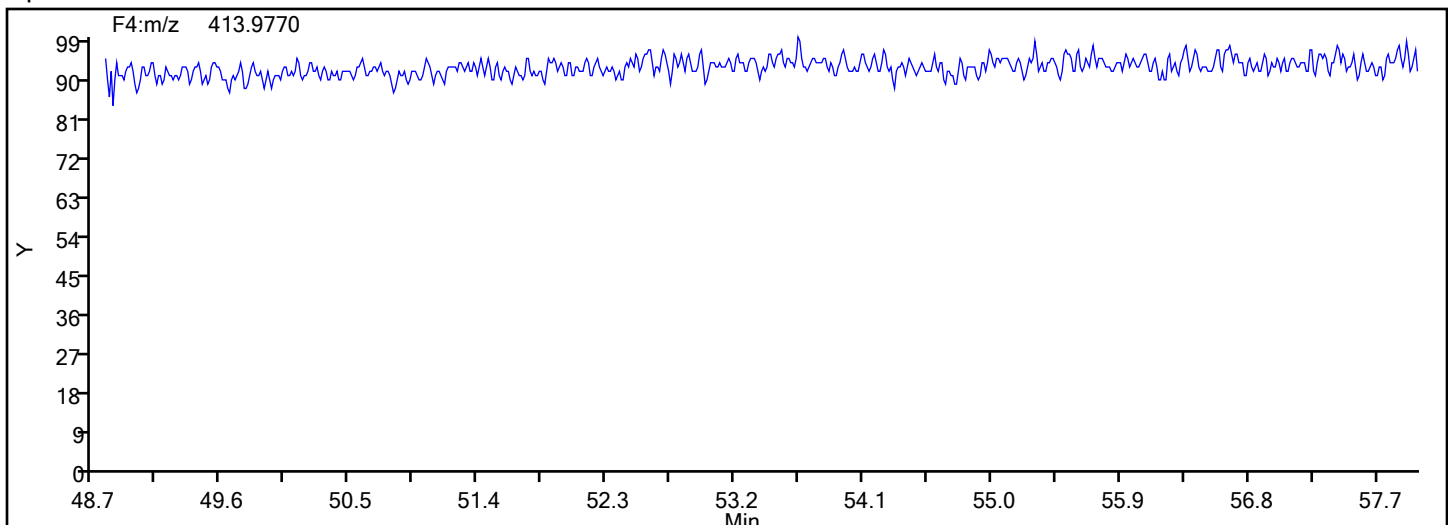


## Eurofins Knoxville

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Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

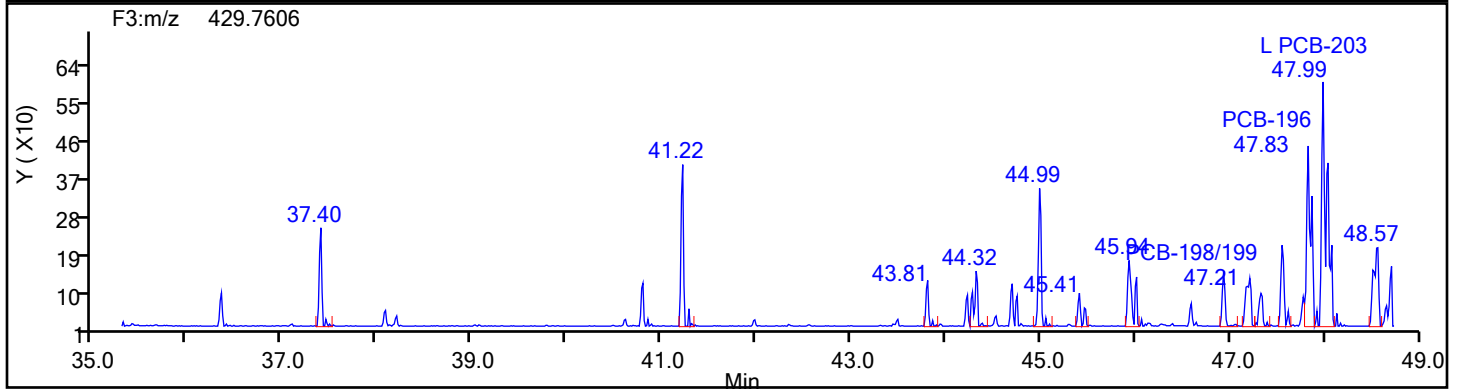
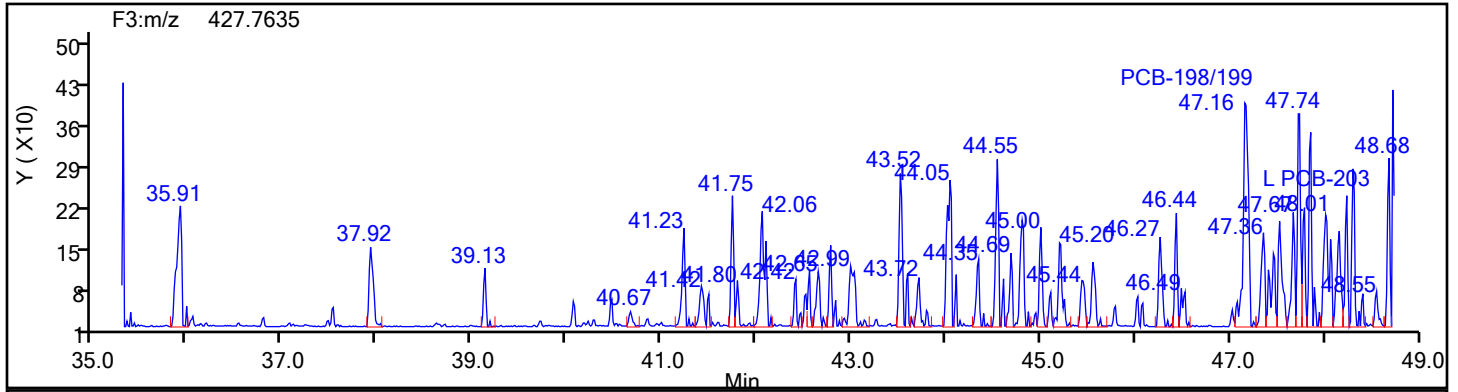


## HpPCB F4 Lock Mass

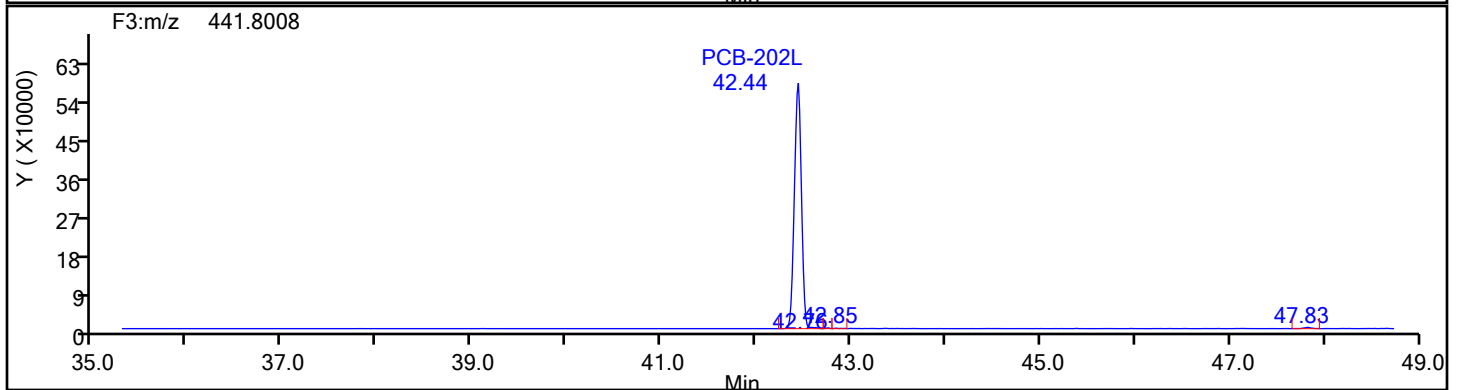
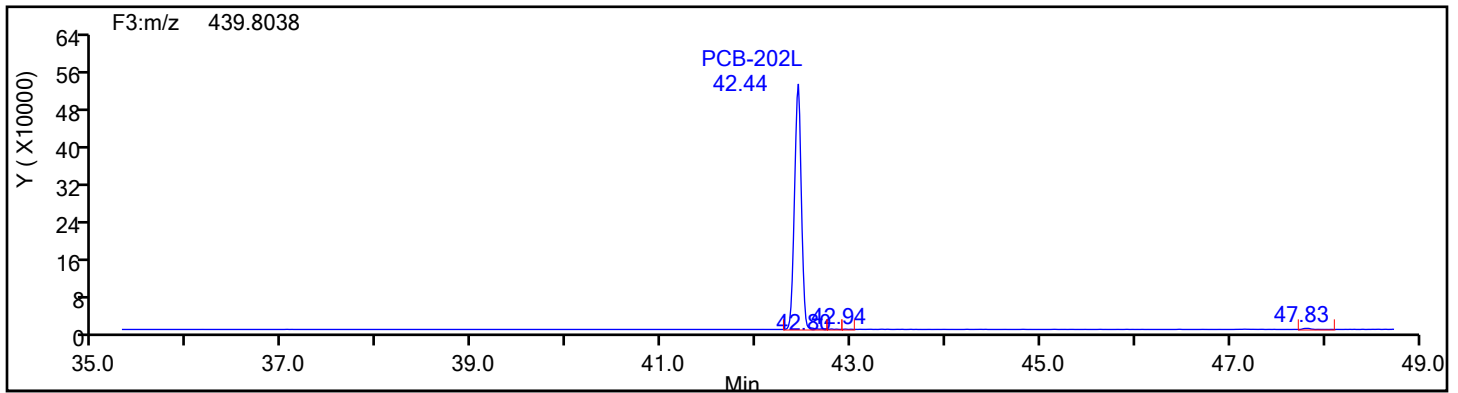


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

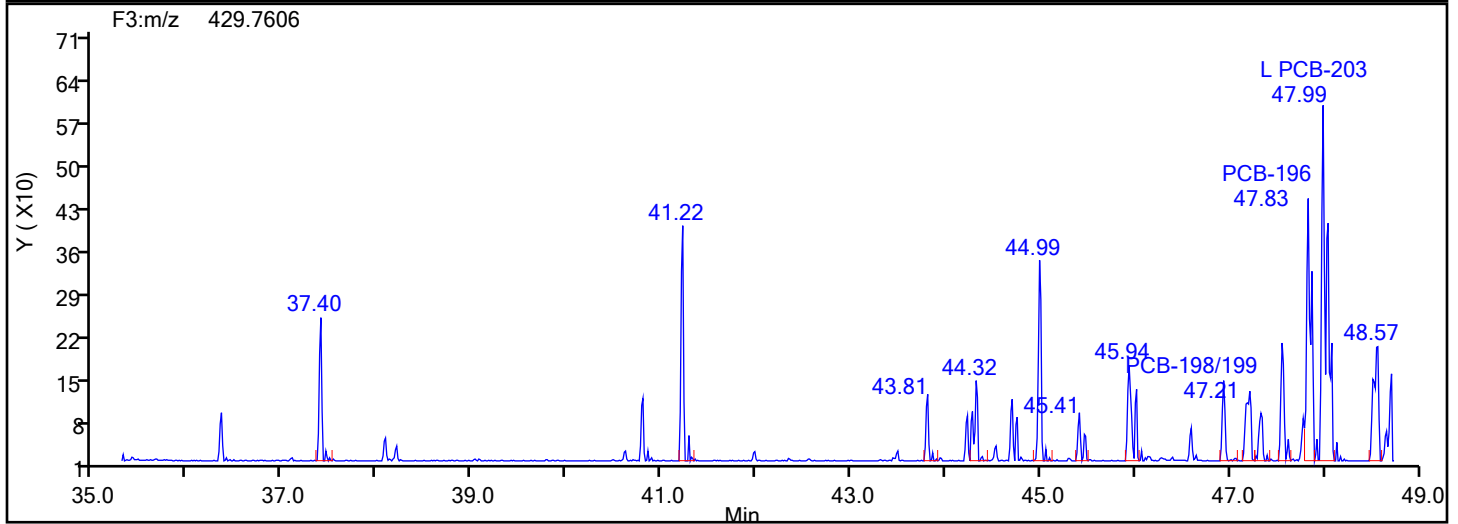
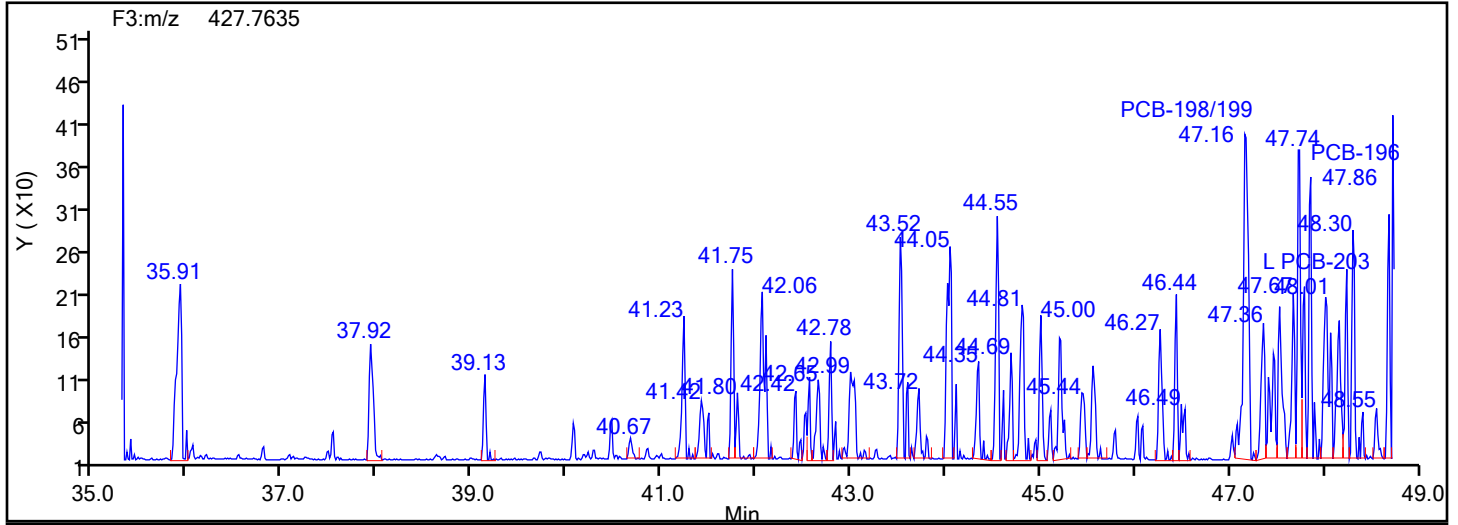


## OcPCB F3 Standards

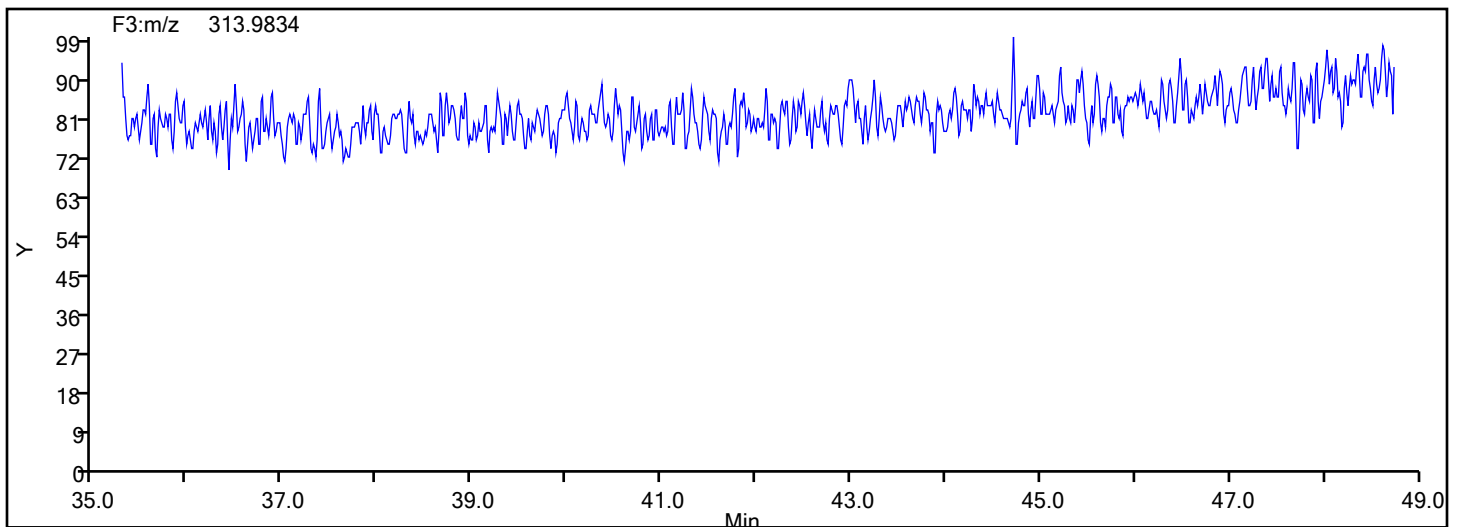


## Eurofins Knoxville

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Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

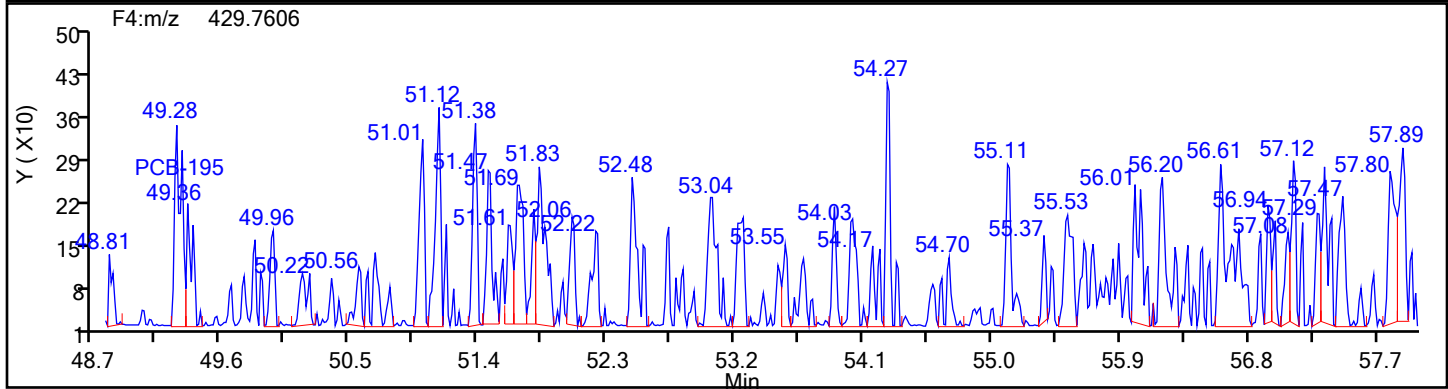
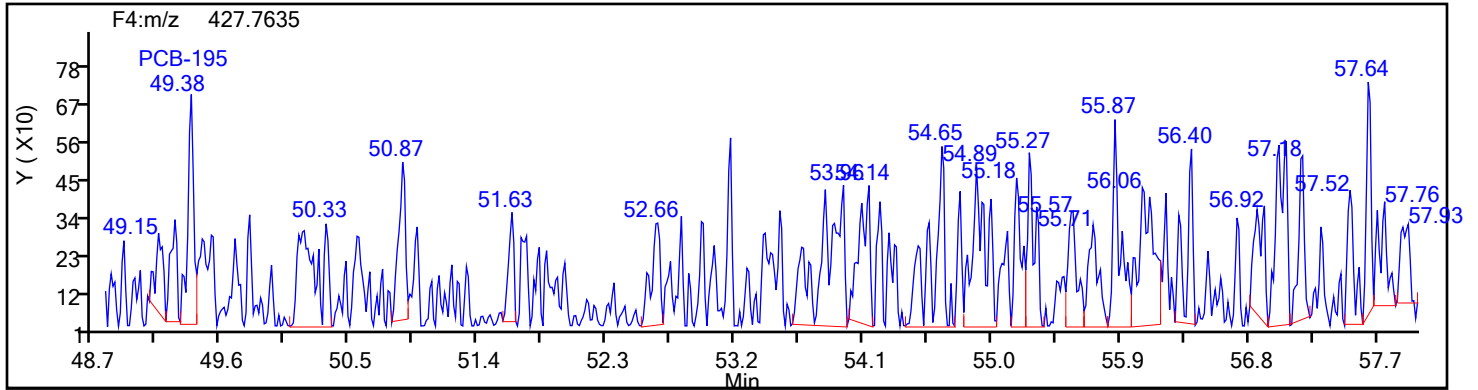


## OcPCB F3 Lock Mass

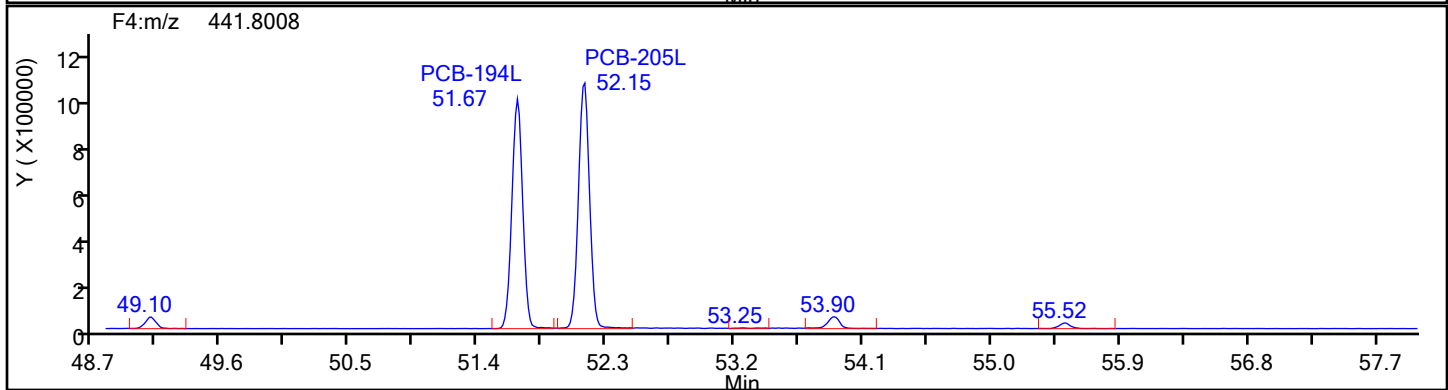
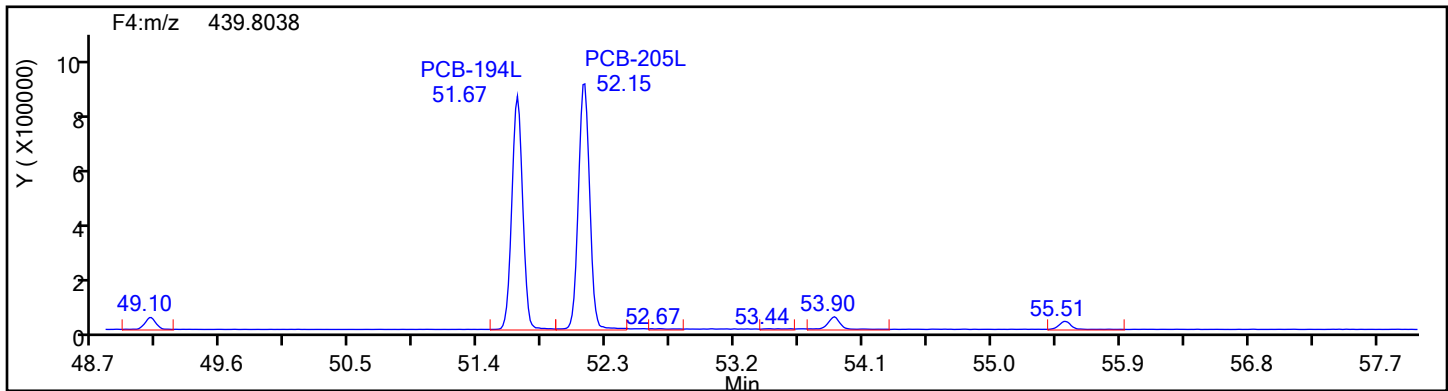


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4



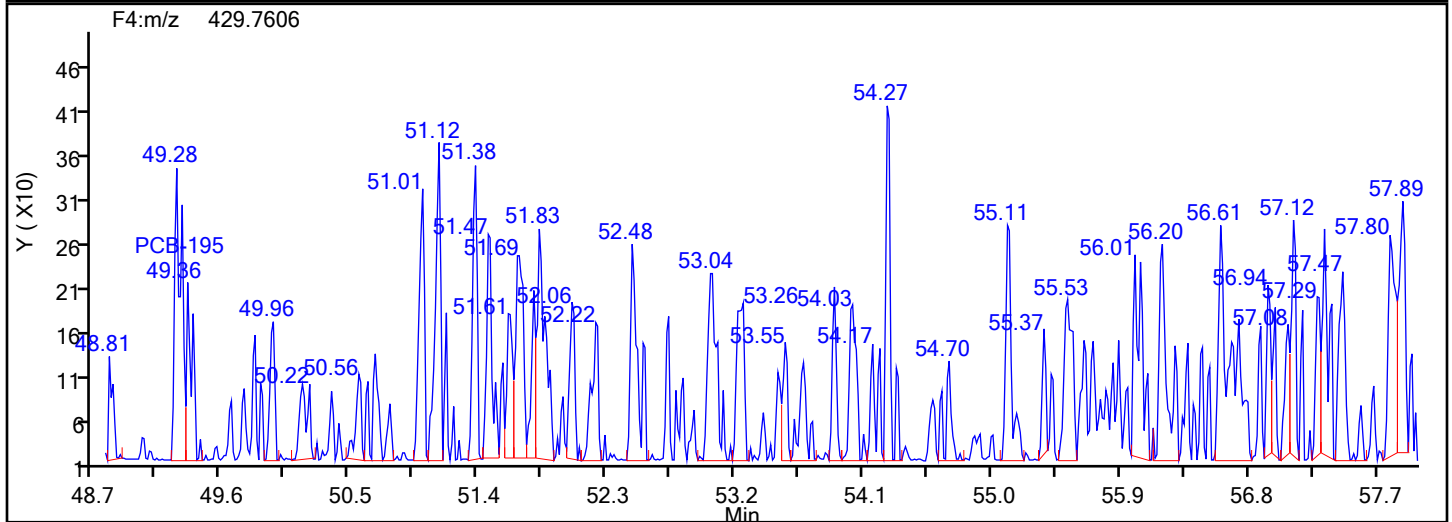
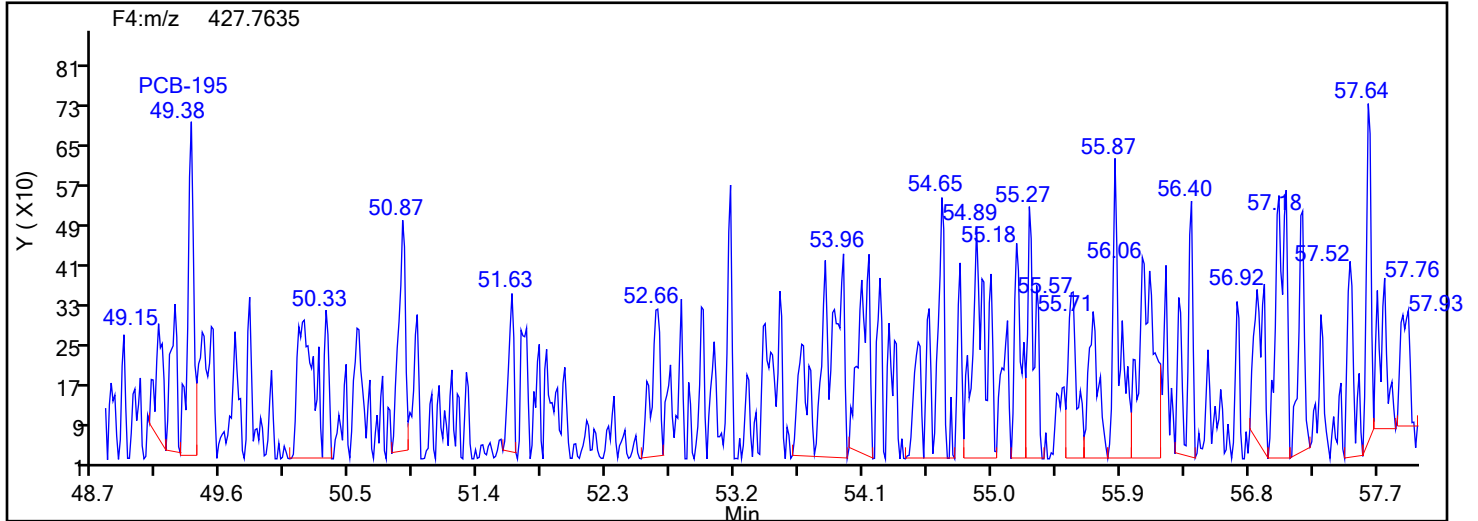
## OcPCB F4 Standards



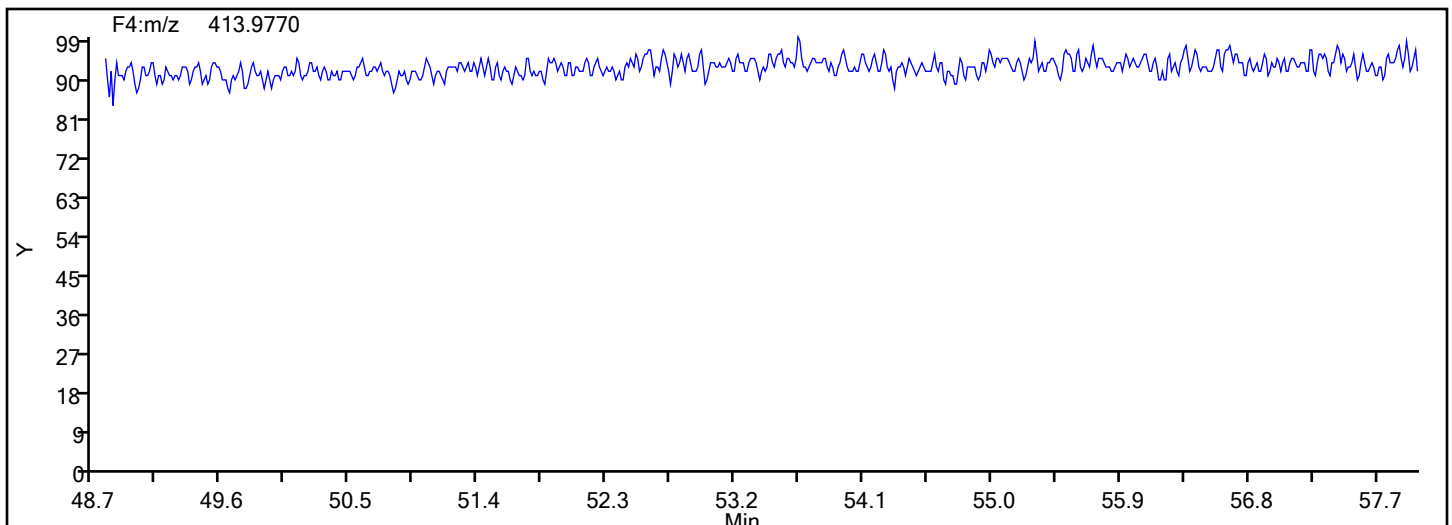


## Eurofins Knoxville

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Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4



## OcPCB F4 Lock Mass



## Eurofins Knoxville

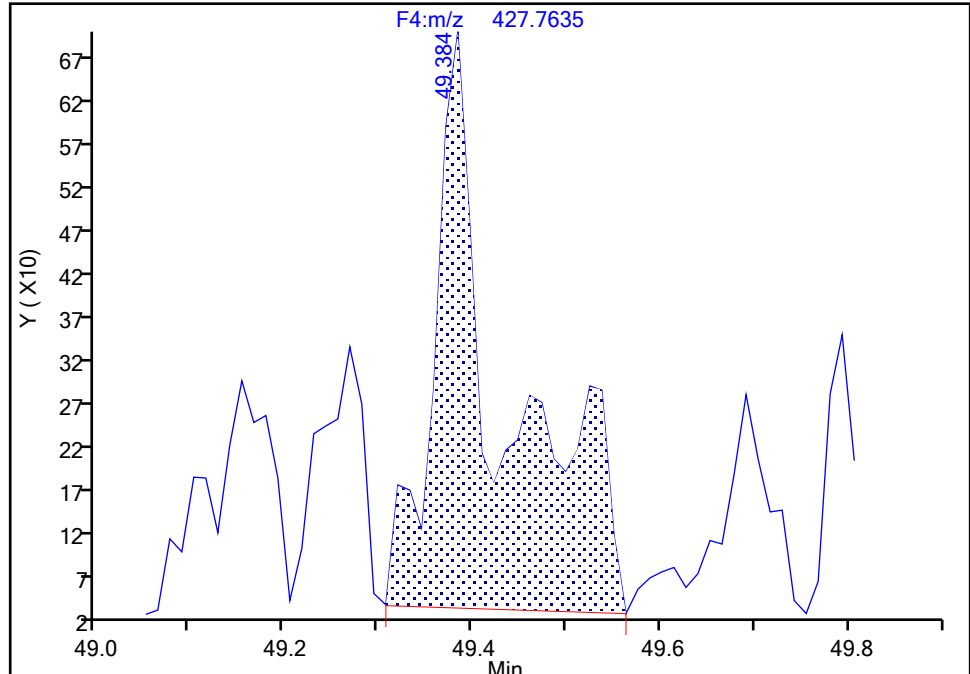
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Injection Date: 29-Jun-2024 03:19:00 Instrument ID: D2D  
Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F4(49.20 :57.50 )

PCB-195, CAS: 52663-78-2

Signal: 1

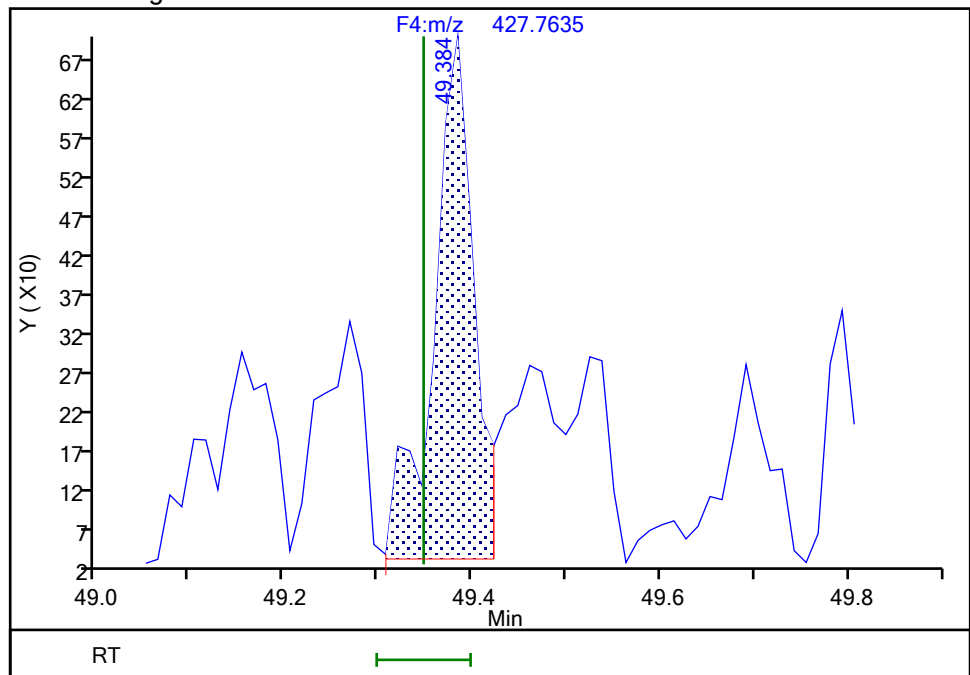
RT: 49.38  
Area: 3515  
Amount: 0.046995  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.38  
Area: 1941  
Amount: 0.028744  
Amount Units: pg/ul

## Manual Integration Results



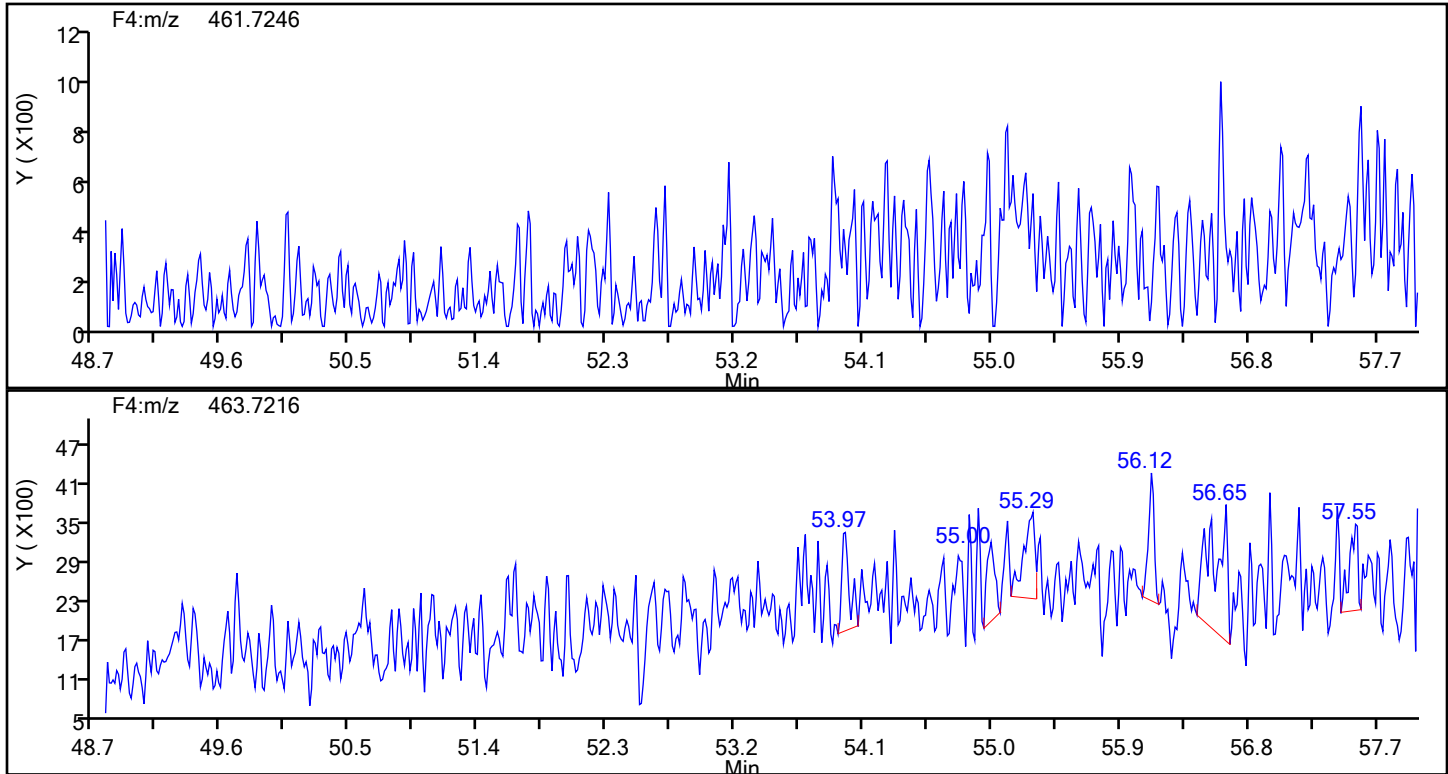
Reviewer: P0IK, 29-Jun-2024 16:07:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

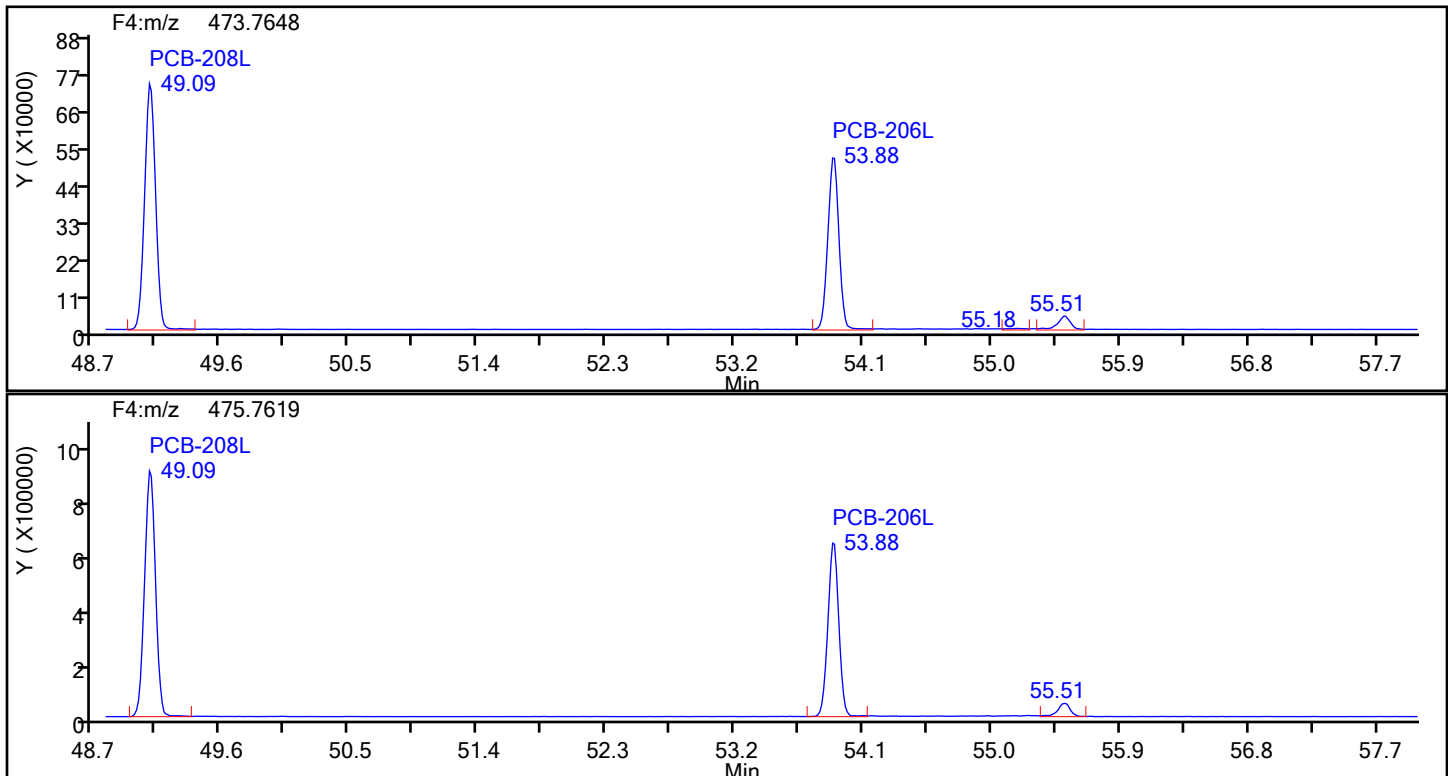
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

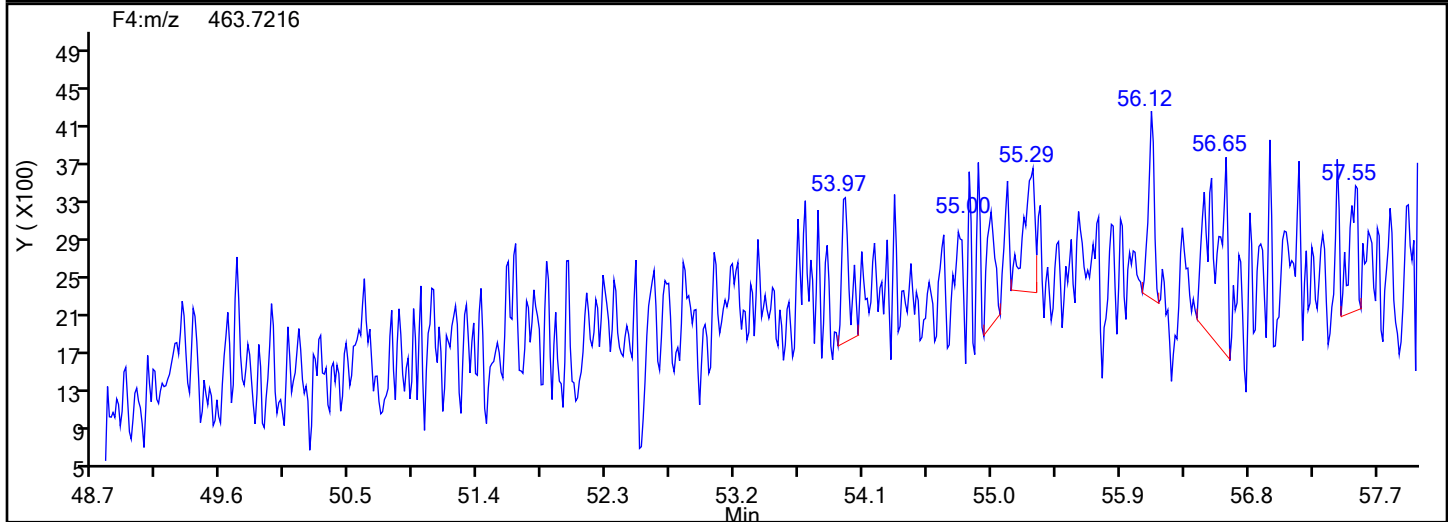
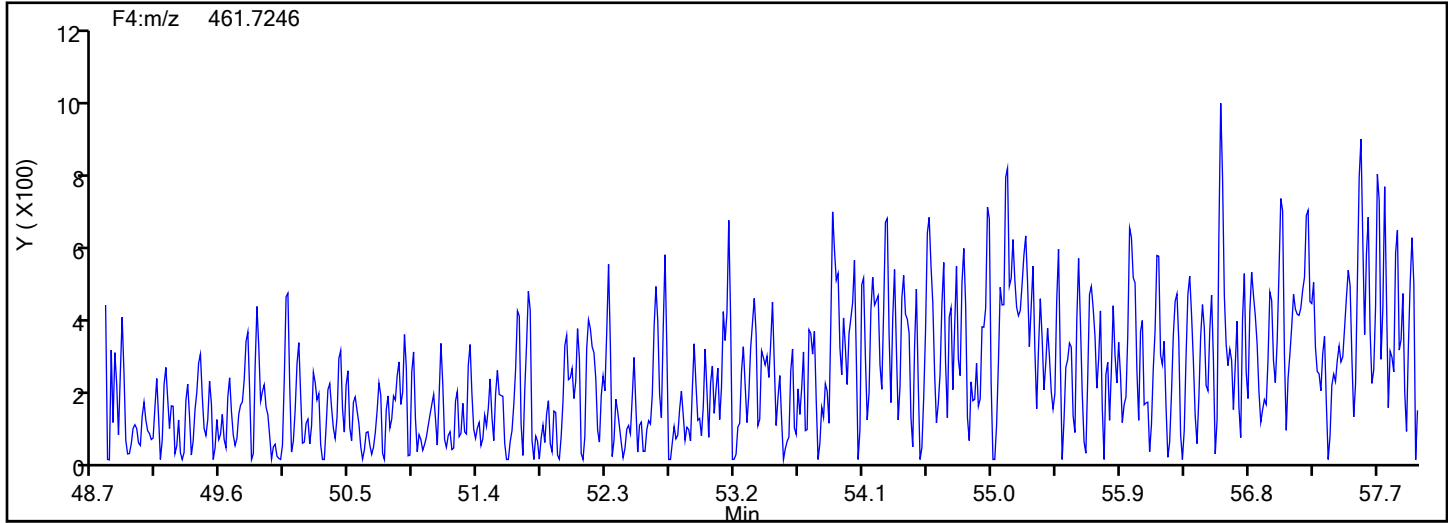


## NoPCB F4 Standards

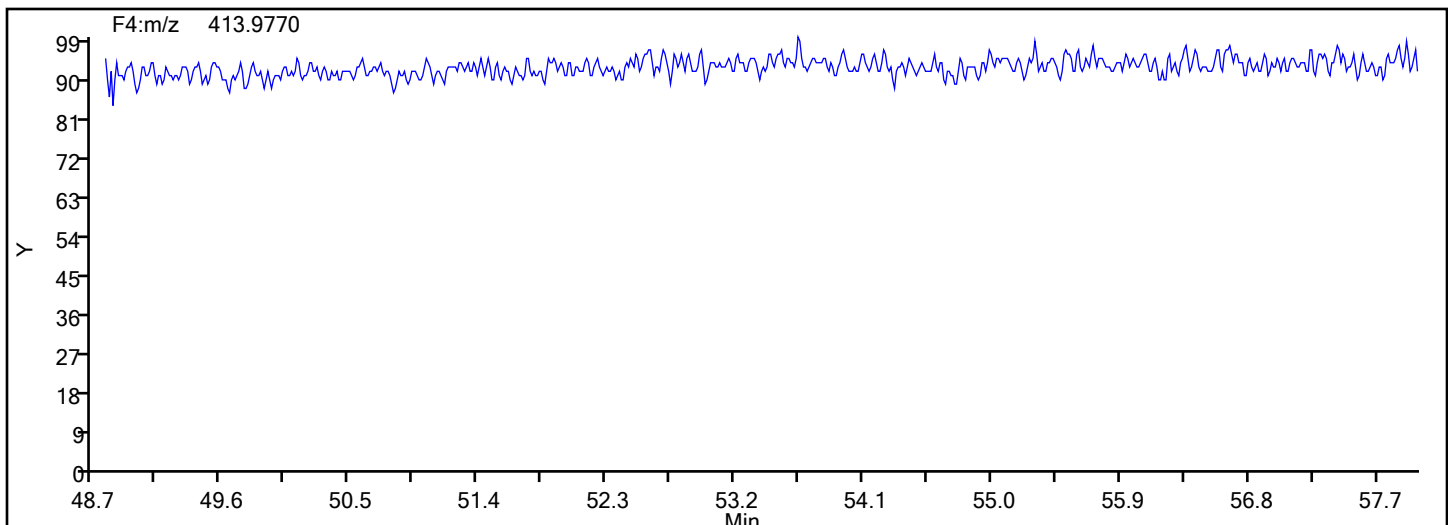


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

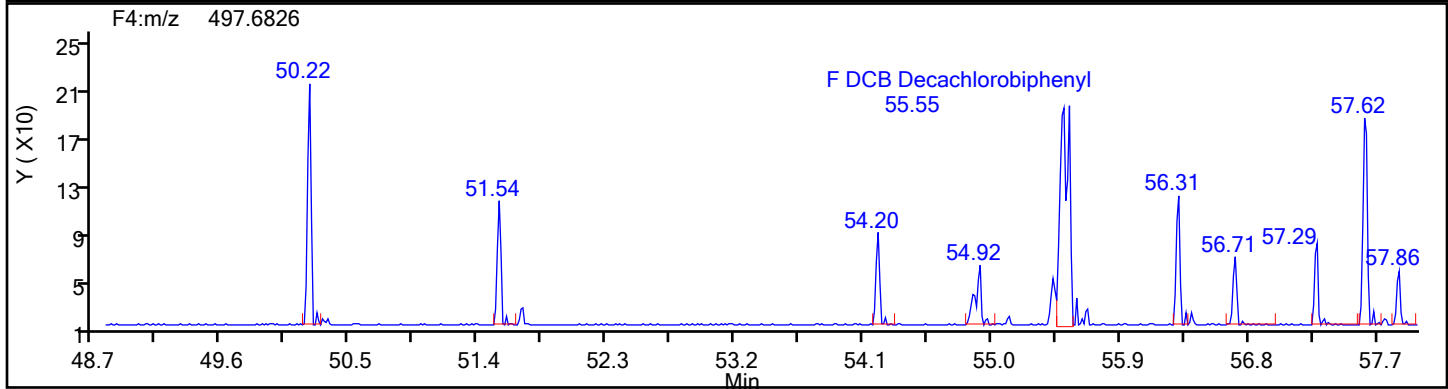
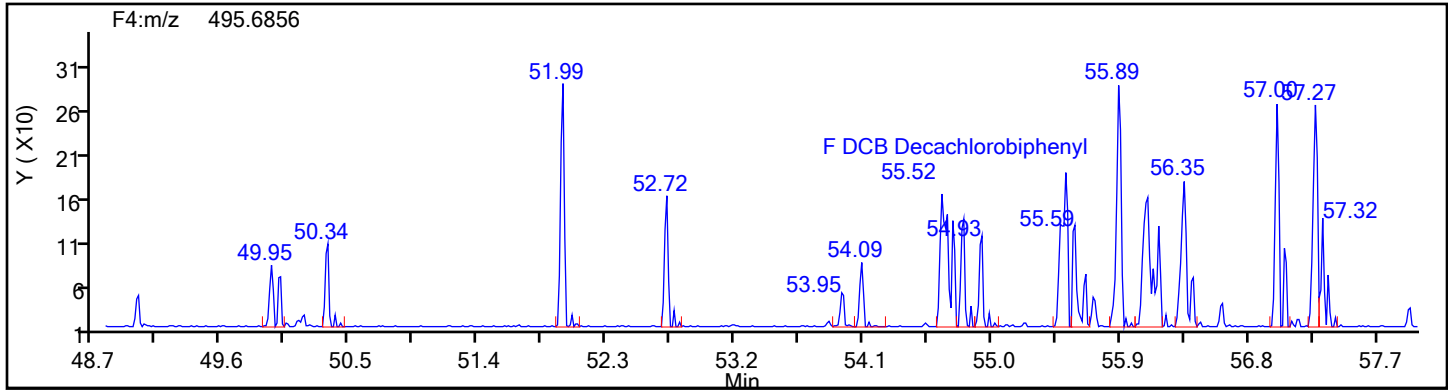


## NoPCB F4 Lock Mass

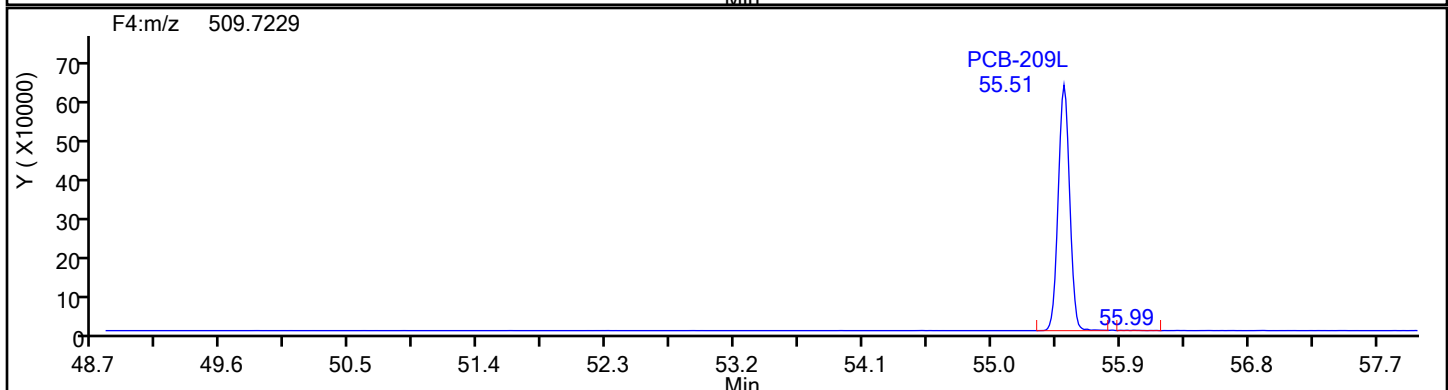
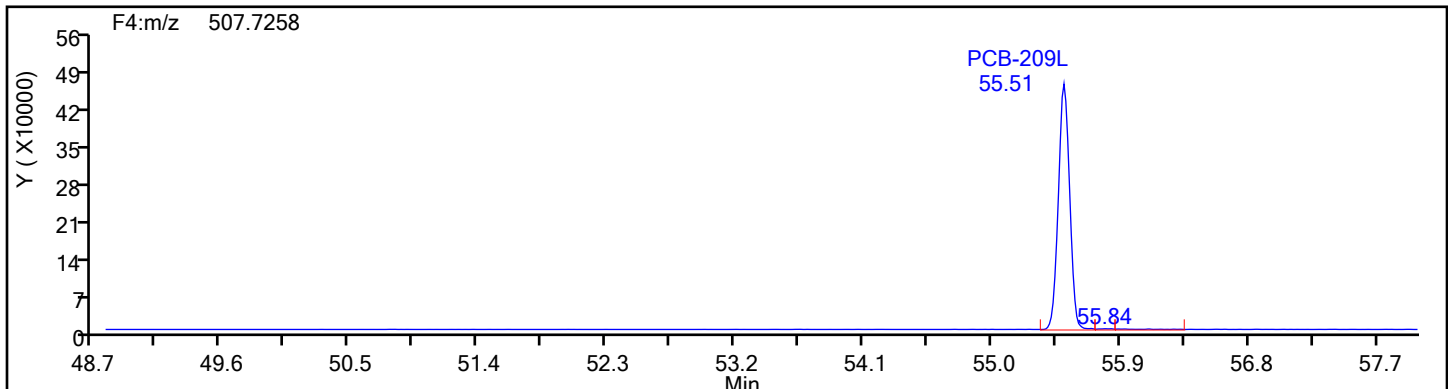


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4

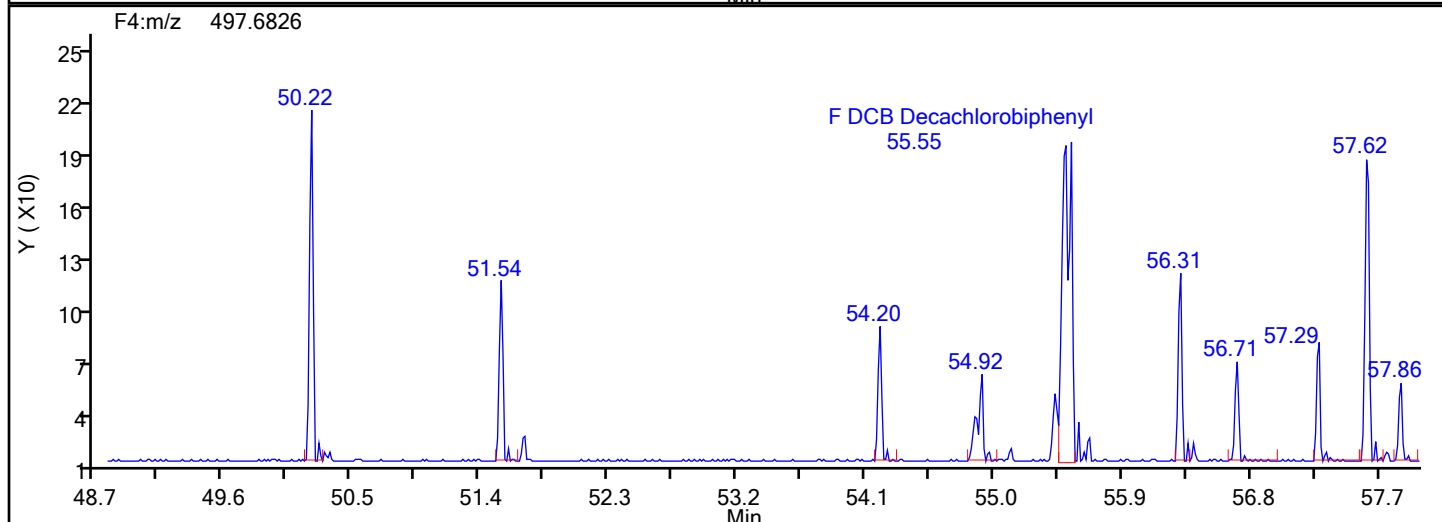
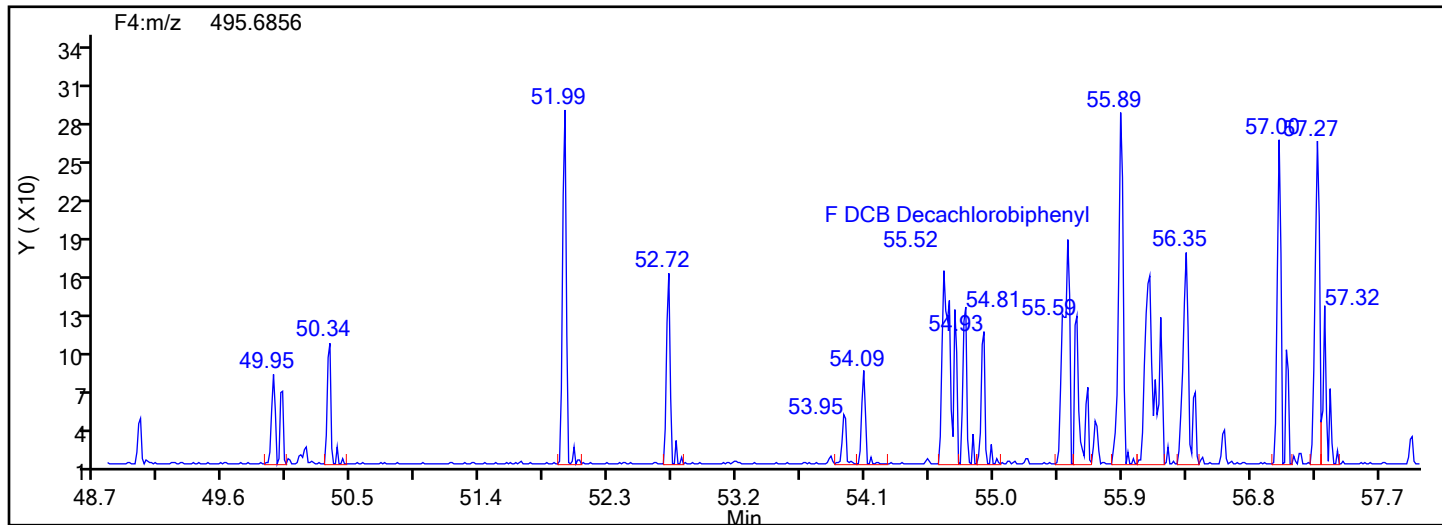


## DePCB F4 Standards

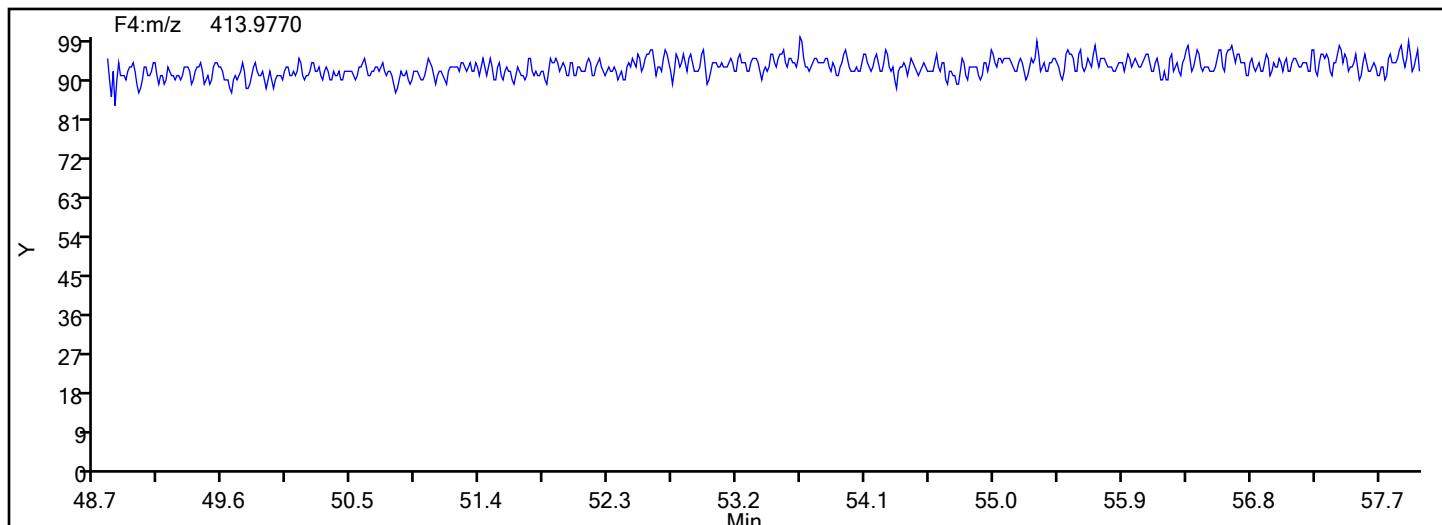


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Injection Date: 29-Jun-2024 03:19:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Worklist#: 88242 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



## Eurofins Knoxville

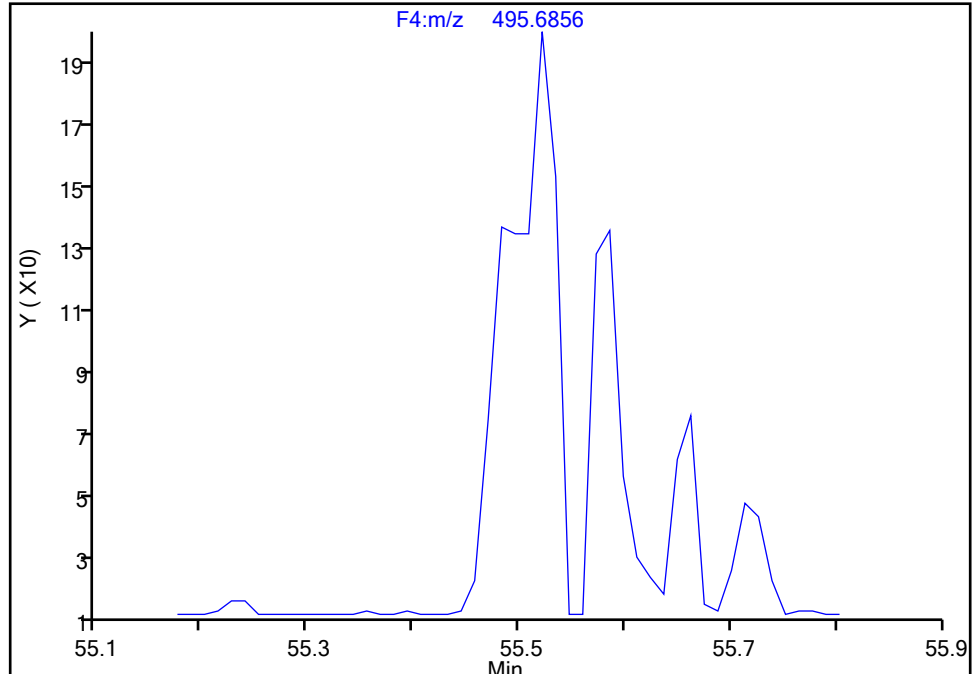
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Injection Date: 29-Jun-2024 03:19:00 Instrument ID: D2D  
Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1\IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F4(49.20 :57.50 )

## DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

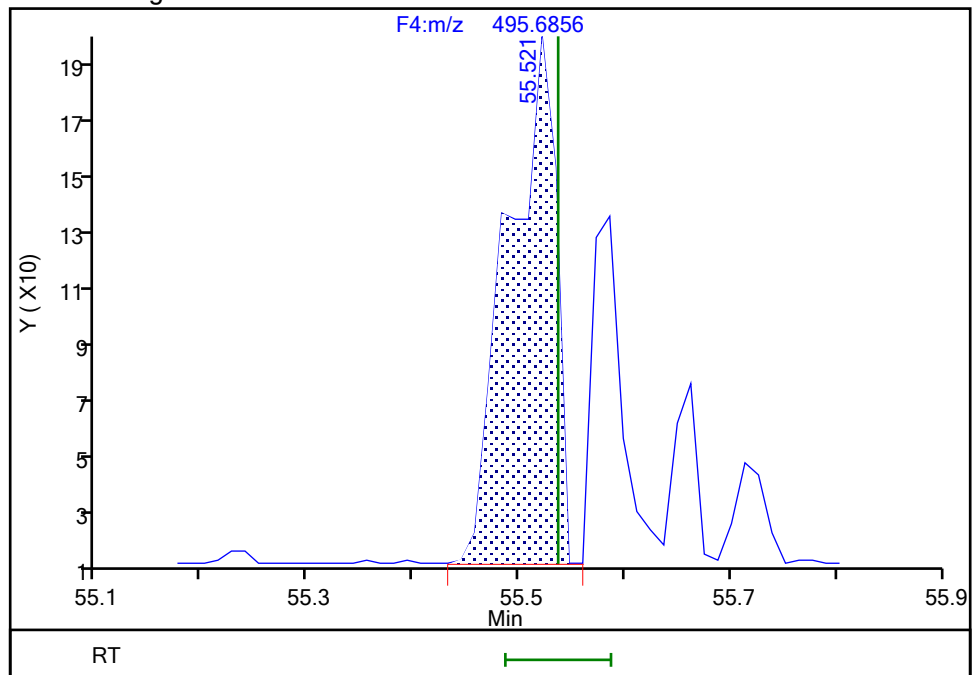
Not Detected  
Expected RT: 55.54

## Processing Integration Results



RT: 55.52  
Area: 546  
Amount: 0.019678  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 16:07:27 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

## Eurofins Knoxville

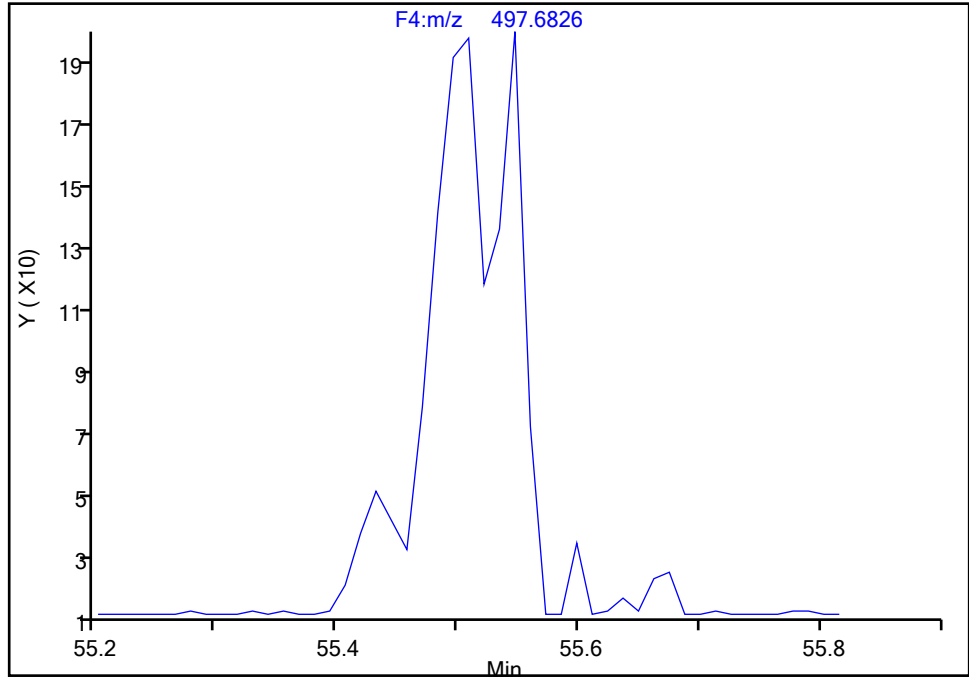
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Injection Date: 29-Jun-2024 03:19:00 Instrument ID: D2D  
Lims ID: 140-36940-A-8-C Lab Sample ID: 140-36940-8  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

## DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

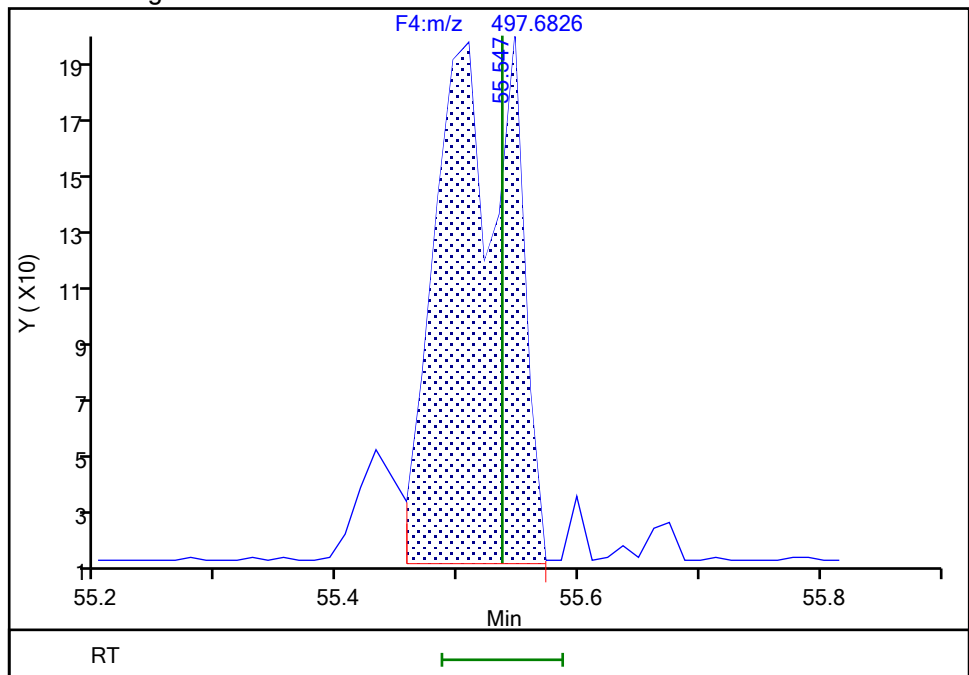
Not Detected  
Expected RT: 55.54

## Processing Integration Results



RT: 55.55  
Area: 779  
Amount: 0.019678  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 29-Jun-2024 16:07:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\140-36940-a-8-c.d  
Lims ID: 140-36940-A-8-C  
Client ID: M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED  
Sample Type: Client  
Inject. Date: 29-Jun-2024 03:19:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033313-007  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 16:10:15 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: P0IK

Date: 29-Jun-2024 16:10:15

Compound	Amount Added	Amount Recovered	% Rec.
PCB-8L	33.3	32.0	95.98
PCB-28L	100.0	71.2	71.18
PCB-79L	33.3	32.7	98.04
PCB-95L	33.3	36.9	110.69
PCB-111L	100.0	80.9	80.91
PCB-153L	33.3	29.5	88.57
PCB-178L	100.0	83.3	83.34

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>A-2174,A-2175 M23 MEDIA</u> <u>CHECK XAD,FILTER</u>	Lab Sample ID: <u>140-36940-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-14-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 12:47</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.0169	J q B	0.600	0.132	0.00469
37680-65-2	PCB-18	0.0105	J C B	0.600	0.285	0.00221
7012-37-5	PCB-28	0.0221	J q C20 B	0.600	0.252	0.00550
41464-39-5	PCB-44	ND	C	0.900	0.390	0.0230
35693-99-3	PCB-52	ND		0.300	0.132	0.0244
32598-10-0	PCB-66	ND		0.300	0.120	0.0178
32598-13-3	PCB-77	ND		0.300	0.126	0.0206
70362-50-4	PCB-81	ND		0.300	0.0960	0.0208
37680-73-2	PCB-101	0.0151	J q C90	0.900	0.390	0.00275
32598-14-4	PCB-105	0.00801	J q	0.300	0.102	0.00586
74472-37-0	PCB-114	ND		0.300	0.165	0.00620
31508-00-6	PCB-118	ND		0.300	0.183	0.00539
65510-44-3	PCB-123	ND		0.300	0.171	0.00635
57465-28-8	PCB-126	ND		0.300	0.123	0.00665
38380-07-3	PCB-128	0.00358	J C	0.600	0.204	0.00325
35065-28-2	PCB-138	0.0168	J C129 B	1.20	0.510	0.00337
35065-27-1	PCB-153	0.00877	J C	0.600	0.249	0.00292
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00354
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00354
52663-72-6	PCB-167	ND		0.300	0.180	0.00240
32774-16-6	PCB-169	ND		0.300	0.123	0.00231
35065-30-6	PCB-170	0.00336	J q	0.300	0.132	0.00187
35065-29-3	PCB-180	0.0187	J q C B	0.600	0.204	0.00158
52663-68-0	PCB-187	0.0104	J q	0.300	0.126	0.00167
39635-31-9	PCB-189	ND		0.300	0.147	0.00395
52663-78-2	PCB-195	0.0185	J q	0.300	0.159	0.00277
40186-72-9	PCB-206	ND		0.300	0.171	0.00315

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: A-2174,A-2175 M23 MEDIA Lab Sample ID: 140-36940-14  
CHECK XAD,FILTER  
Matrix: Air Lab File ID: 140-36940-a-14-c.d  
Analysis Method: 23 Date Collected: 05/15/2024 00:00  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 12:47  
Con. Extract Vol.: 30 (mL) Dilution Factor: 1  
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88219 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
2051-24-3	PCB-209	ND		0.300	0.138	0.00285

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: <u>A-2174,A-2175 M23 MEDIA</u> <u>CHECK XAD,FILTER</u>	Lab Sample ID: <u>140-36940-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-36940-a-14-c.d</u>
Analysis Method: <u>23</u>	Date Collected: <u>05/15/2024 00:00</u>
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1(Sample)</u>	Date Analyzed: <u>06/28/2024 12:47</u>
Con. Extract Vol.: <u>30(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25(mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88219</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	14	*5-	20-145
208263-77-8	PCB-3L	44		20-145
234432-86-1	PCB-4L	19	*5-	20-145
208263-67-6	PCB-15L	68		20-145
234432-87-2	PCB-19L	27		20-145
208263-79-0	PCB-37L	71		20-145
234432-88-3	PCB-54L	49		20-145
105600-23-5	PCB-77L	79		20-145
208461-24-9	PCB-81L	78		20-145
234432-89-4	PCB-104L	75		20-145
208263-62-1	PCB-105L	87		20-145
208263-63-2	PCB-114L	83		20-145
104130-40-7	PCB-118L	84		20-145
208263-64-3	PCB-123L	83		20-145
208263-65-4	PCB-126L	85		20-145
234432-90-7	PCB-155L	78		20-145
208263-68-7	PCB-156L	87	C	20-145
235416-30-5	PCB-157L	87	C156	20-145
208263-69-8	PCB-167L	83		20-145
208263-70-1	PCB-169L	87		20-145
160901-80-4	PCB-170L	90		20-145
234432-91-8	PCB-188L	79		20-145
208263-73-4	PCB-189L	60		20-145
105600-26-8	PCB-202L	82		20-145
234446-64-1	PCB-205L	87		20-145
208263-75-6	PCB-206L	102		20-145
234432-92-9	PCB-208L	103		20-145
105600-27-9	PCB-209L	110		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: A-2174,A-2175 M23 MEDIA Lab Sample ID: 140-36940-14  
CHECK XAD,FILTER  
Matrix: Air Lab File ID: 140-36940-a-14-c.d  
Analysis Method: 23 Date Collected: 05/15/2024 00:00  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1(Sample) Date Analyzed: 06/28/2024 12:47  
Con. Extract Vol.: 30 (mL) Dilution Factor: 1  
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88219 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	69		20-130
235416-29-2	PCB-111L	78		20-130
232919-67-4	PCB-178L	78		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
 Lims ID: 140-36940-A-14-C  
 Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
 Sample Type: Client  
 Inject. Date: 28-Jun-2024 12:47:00 ALS Bottle#: 0 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033304-006  
 Operator ID: Xcalibur\_System Instrument ID: D2D  
 Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
 Limit Group: HR - EPA\_23 PCB ICAL  
 Last Update: 28-Jun-2024 14:21:32 Calib Date: 31-May-2024 21:13:00  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
 Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
 Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 14:21:32

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					0.4161	0.3929	0.0296	0.0296		RQ
D PCB-1L	11:39	1725352	2.94	1.6108	13.8	13.8	0.2581	0.2581	13.78	
D PCB-3L	13:49	5428175	3.04	1.5891	44.0	44.0	0.2616	0.2616	43.96	
PCB-1	11:40						0.0447	0.0447		
PCB-2	13:38	10897	3.14	1.1805	0.2581	0.2581	0.0264	0.0264		
PCB-3	13:49	8936	3.13	1.2206	0.1580	0.1349	0.0178	0.0178		RQ
S Total Dichlorobiphenyls					0.5300	0.4596	0.0201	0.0201		RQ
D PCB-4L	14:04	947017	1.61	0.6475	18.8	18.8	0.1229	0.1229	18.82	
* PCB-9L	16:01	7770571	1.63		100.0	100.0				
\$ PCB-8L	16:52						0.1870	0.1870		
D PCB-15L	19:56	5732043	1.59	1.0789	68.4	68.4	0.0738	0.0738	68.37	
PCB-4	14:05						0.0492	0.0492		
PCB-10	14:15						0.0189	0.0189		
PCB-9	16:02						0.0175	0.0175		
PCB-7	16:12	3750	1.56	1.4134	0.0911	0.0794	0.0176	0.0176		RQ
PCB-6	16:25	1178	1.56	1.5421	0.0303	0.0229	0.0161	0.0161		RQ
PCB-5	16:45						0.0186	0.0186		
PCB-8	16:55	2983	1.56	1.5889	0.0697	0.0562	0.0156	0.0156		RQM
PCB-14	18:29						0.0177	0.0177		
PCB-11	19:21	9934	1.43	1.2951	0.2297	0.2297	0.0192	0.0192		M
PCB-12	19:39	2190	1.56	1.3358	0.0669	0.0491	0.0186	0.0186		RQM
PCB-13 (C12)	19:39	2190	1.56	1.3358	0.0669	0.0491	0.0186	0.0186		RQM
PCB-15	19:57	1645	1.56	1.2903	0.0424	0.0222	0.0120	0.0120		RQM
S Total Trichlorobiphenyls					0.2639	0.1800	0.0154	0.0154		RQ
D PCB-19L	17:10	878766	1.06	0.6285	26.9	26.9	0.4141	0.4141	26.87	
* PCB-32L	20:24	5203950	1.09		100.0	100.0				
* PCB-31L	22:40	9680605	0.99		100.0	100.0				
\$ PCB-28L	22:57	7036313	0.99	1.0494	69.3	69.3	0.1195	0.1195	69.26	
D PCB-37L	26:57	5992717	1.06	0.8749	70.8	70.8	0.1433	0.1433	70.75	
PCB-19	17:11						0.0102	0.0102		
PCB-18	19:02	545	1.03	1.7652	0.0351	0.0351	0.007380	0.007380		
PCB-30 (C18)	19:02	545	1.03	1.7652	0.0351	0.0351	0.007380	0.007380		
PCB-17	19:27						0.0105	0.0105		
PCB-27	19:40						0.007108	0.007108		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:48						0.007765	0.007765		
PCB-16	19:55						0.0115	0.0115		
PCB-32	20:24	913	1.04	1.8324	0.1044	0.0567	0.007109	0.007109		RQM
PCB-34	21:41						0.0191	0.0191		
PCB-23	21:49						0.0199	0.0199		
PCB-26	22:09						0.0191	0.0191		
PCB-29 (C26)	22:09						0.0191	0.0191		
PCB-25	22:22						0.0169	0.0169		
PCB-31	22:41						0.0186	0.0186		
PCB-20	22:58	5173	1.04	1.1718	0.0937	0.0737	0.0183	0.0183		RQM
PCB-28 (C20)	22:58	5173	1.04	1.1718	0.0937	0.0737	0.0183	0.0183		RQM
PCB-21	23:09						0.0200	0.0200		
PCB-33 (C21)	23:09						0.0200	0.0200		
PCB-22	23:38	1035	1.04	1.1932	0.0307	0.0145	0.0180	0.0180		RQ
PCB-36	25:10						0.0194	0.0194		
PCB-39	25:31						0.0186	0.0186		
PCB-38	26:06						0.0198	0.0198		
PCB-35	26:34						0.0190	0.0190		
PCB-37	26:58						0.0188	0.0188		
S Total Tetrachlorobiphenyls							0.1051	0.1051		
D PCB-54L	20:14	1429373	0.82	0.5562	49.4	49.4	0.0513	0.0513	49.38	
* PCB-52L	24:47	6970038	0.79		100.0	100.0				
\$ PCB-79L	32:41						0.0818	0.0818		
D PCB-81L	33:41	6813215	0.78	1.2470	78.4	78.4	0.0537	0.0537	78.39	
D PCB-77L	34:15	7286294	0.81	1.3212	79.1	79.1	0.0507	0.0507	79.12	
PCB-54	20:16						0.007842	0.007842		
PCB-50	22:25						0.0870	0.0870		
PCB-53 (C50)	22:25						0.0870	0.0870		
PCB-45	23:09						0.0903	0.0903		
PCB-51 (C45)	23:09						0.0903	0.0903		
PCB-46	23:24						0.1051	0.1051		
PCB-52	24:48						0.0812	0.0812		
PCB-43	24:56						0.0722	0.0722		
PCB-73 (C43)	24:56						0.0722	0.0722		
PCB-49	25:14						0.0699	0.0699		
PCB-69 (C49)	25:14						0.0699	0.0699		
PCB-48	25:34						0.0889	0.0889		
PCB-44	25:49						0.0767	0.0767		
PCB-47 (C44)	25:49						0.0767	0.0767		
PCB-65 (C44)	25:49						0.0767	0.0767		
PCB-59	26:07						0.0630	0.0630		
PCB-62 (C59)	26:07						0.0630	0.0630		
PCB-75 (C59)	26:07						0.0630	0.0630		
PCB-42	26:19						0.0922	0.0922		
PCB-40	26:49						0.0842	0.0842		
PCB-41 (C40)	26:49						0.0842	0.0842		
PCB-71 (C40)	26:49						0.0842	0.0842		
PCB-64	27:02						0.0634	0.0634		
PCB-72	27:51						0.0682	0.0682		
PCB-68	28:09						0.0596	0.0596		
PCB-57	28:34						0.0690	0.0690		
PCB-58	28:49						0.0563	0.0563		
PCB-67	28:58						0.0525	0.0525		
PCB-63	29:14						0.0664	0.0664		
PCB-61	29:35						0.0592	0.0592		
PCB-70 (C61)	29:35						0.0592	0.0592		
PCB-74 (C61)	29:35						0.0592	0.0592		
PCB-76 (C61)	29:35						0.0592	0.0592		
PCB-66	29:54						0.0593	0.0593		
PCB-55	30:04						0.0564	0.0564		
PCB-56	30:35						0.0605	0.0605		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:47						0.0665	0.0665		
PCB-80	31:11						0.0564	0.0564		
PCB-79	32:43						0.0520	0.0520		
PCB-78	33:16						0.0643	0.0643		
PCB-81	33:43						0.0693	0.0693		
PCB-77	34:16						0.0687	0.0687		
S Total Pentachlorobiphenyls					0.3370	0.2352	0.0129	0.0129		RQ
D PCB-104L	25:43	4630271	1.59	1.2161	75.3	75.3	0.0339	0.0339	75.28	
\$ PCB-95L	28:41						0.0566	0.0566		
* PCB-101L	31:36	5058089	1.61		100.0	100.0				
\$ PCB-111L	34:17	5380743	1.61	1.3699	77.7	77.7	0.0301	0.0301	77.65	
D PCB-123L	36:14	5558833	1.50	0.9731	82.9	82.9	0.9451	0.9451	82.95	
D PCB-118L	36:34	5858291	1.50	1.0102	84.2	84.2	0.9105	0.9105	84.21	
D PCB-114L	37:06	5657133	1.51	0.9949	82.6	82.6	0.9245	0.9245	82.57	
D PCB-105L	37:46	5687969	1.56	0.9514	86.8	86.8	0.9667	0.9667	86.81	
* PCB-127L	39:13	6886703	1.51		100.0	100.0				
D PCB-126L	40:50	5529542	1.53	0.9439	85.1	85.1	0.9744	0.9744	85.07	
PCB-104	25:45						0.008680	0.008680		
PCB-96	26:08						0.008003	0.008003		
PCB-103	28:02						0.0100	0.0100		
PCB-94	28:16						0.0115	0.0115		
PCB-95	28:43						0.0109	0.0109		
PCB-93	28:55						0.0104	0.0104		
PCB-100 (C93)	28:55						0.0104	0.0104		
PCB-98	29:04						0.0106	0.0106		
PCB-102 (C98)	29:04						0.0106	0.0106		
PCB-88	29:34						0.0109	0.0109		
PCB-91 (C88)	29:34						0.0109	0.0109		
PCB-84	29:49	810	1.55	0.7299	0.0337	0.0240	0.0120	0.0120		RQ
PCB-89	30:15	856	1.55	0.7798	0.0379	0.0237	0.0112	0.0112		RQM
PCB-121	30:40						0.006754	0.006754		
PCB-92	31:03						0.0102	0.0102		
PCB-90	31:39	2233	1.55	0.9550	0.0756	0.0505	0.009168	0.009168		RQM
PCB-101 (C90)	31:39	2233	1.55	0.9550	0.0756	0.0505	0.009168	0.009168		RQM
PCB-113 (C90)	31:39	2233	1.55	0.9550	0.0756	0.0505	0.009168	0.009168		RQM
PCB-83	32:13						0.0104	0.0104		
PCB-99 (C83)	32:13						0.0104	0.0104		
PCB-112	32:20						0.006205	0.006205		
PCB-86	32:42	3128	1.55	1.0473	0.0810	0.0645	0.008360	0.008360		RQM
PCB-87 (C86)	32:42	3128	1.55	1.0473	0.0810	0.0645	0.008360	0.008360		RQM
PCB-97 (C86)	32:42	3128	1.55	1.0473	0.0810	0.0645	0.008360	0.008360		RQM
PCB-109 (C86)	32:42	3128	1.55	1.0473	0.0810	0.0645	0.008360	0.008360		RQM
PCB-119 (C86)	32:42	3128	1.55	1.0473	0.0810	0.0645	0.008360	0.008360		RQM
PCB-125 (C86)	32:42	3128	1.55	1.0473	0.0810	0.0645	0.008360	0.008360		RQM
PCB-85	33:28						0.008412	0.008412		RQU
PCB-116 (C85)	33:28						0.008412	0.008412		RQU
PCB-117 (C85)	33:28						0.008412	0.008412		RQU
PCB-110	33:37	2530	1.55	1.1919	0.0718	0.0458	0.007346	0.007346		RQ
PCB-115 (C110)	33:37	2530	1.55	1.1919	0.0718	0.0458	0.007346	0.007346		RQ
PCB-82	33:56						0.0105	0.0105		
PCB-111	34:19						0.007221	0.007221		
PCB-120	34:46						0.005931	0.005931		
PCB-108	35:55						0.0200	0.0200		
PCB-124 (C108)	35:55						0.0200	0.0200		
PCB-107	36:10						0.0188	0.0188		
PCB-123	36:16						0.0212	0.0212		
PCB-106	36:23						0.0211	0.0211		
PCB-118	36:36						0.0180	0.0180		
PCB-122	36:57						0.0239	0.0239		
PCB-114	37:07						0.0207	0.0207		



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:49	1805	1.55	1.1879	0.0369	0.0267	0.0195	0.0195		RQM
PCB-127	39:14						0.0200	0.0200		
PCB-126	40:52						0.0222	0.0222		
S Total Hexachlorobiphenyls					0.1397	0.1306	0.008863	0.008863		RQ
D PCB-155L	31:22	4294707	1.28	1.0851	78.2	78.2	0.0453	0.0453	78.25	
\$ PCB-153L	38:26	114378	1.41	0.9169	1.803	1.803	0.5005	0.5005		
* PCB-138L	39:42	6546070	1.29		100.0	100.0				
D PCB-167L	42:41	6863910	1.27	1.2572	83.4	83.4	0.3130	0.3130	83.40	
D PCB-156L	43:51	13739030	1.28	1.2106	173.4	173.4	0.3251	0.3251	86.69	
D PCB-157L (C156L)	43:51	13739030	1.28	1.2106	173.4	173.4	0.3251	0.3251	86.69	
D PCB-169L	47:04	7068614	1.26	1.2439	86.8	86.8	0.3164	0.3164	86.81	
PCB-155	31:23						0.002563	0.002563		
PCB-152	31:37						0.002446	0.002446		
PCB-150	31:46						0.002389	0.002389		
PCB-136	32:09						0.002393	0.002393		
PCB-145	32:26						0.002500	0.002500		
PCB-148	33:56						0.003184	0.003184		
PCB-135	34:32						0.003336	0.003336		
PCB-151 (C135)	34:32						0.003336	0.003336		
PCB-154	34:46						0.002978	0.002978		
PCB-144	35:05						0.003083	0.003083		
PCB-147	35:28						0.0119	0.0119		
PCB-149 (C147)	35:28						0.0119	0.0119		
PCB-134	35:46						0.0134	0.0134		
PCB-143 (C134)	35:46						0.0134	0.0134		
PCB-139	36:02						0.0121	0.0121		
PCB-140 (C139)	36:02						0.0121	0.0121		
PCB-131	36:16						0.0142	0.0142		
PCB-142	36:24						0.0142	0.0142		
PCB-132	36:45	1732	1.24	0.7489	0.0425	0.0334	0.0142	0.0142		RQ
PCB-133	37:13						0.0131	0.0131		
PCB-165	37:36						0.0104	0.0104		
PCB-146	37:51						0.0110	0.0110		
PCB-161	37:59						0.009427	0.009427		
PCB-153	38:28	2211	1.37	1.0938	0.0292	0.0292	0.009729	0.009729		
PCB-168 (C153)	38:28	2211	1.37	1.0938	0.0292	0.0292	0.009729	0.009729		
PCB-141	38:40						0.0122	0.0122		
PCB-130	39:05						0.0151	0.0151		
PCB-137	39:17						0.0137	0.0137		
PCB-164	39:25						0.0102	0.0102		
PCB-129	39:41	3669	1.32	0.9464	0.0560	0.0560	0.0112	0.0112		M
PCB-138 (C129)	39:41	3669	1.32	0.9464	0.0560	0.0560	0.0112	0.0112		M
PCB-160 (C129)	39:41	3669	1.32	0.9464	0.0560	0.0560	0.0112	0.0112		M
PCB-163 (C129)	39:41	3669	1.32	0.9464	0.0560	0.0560	0.0112	0.0112		M
PCB-158	40:06						0.008117	0.008117		
PCB-128	40:54	812	1.33	0.9829	0.0119	0.0119	0.0108	0.0108		
PCB-166 (C128)	40:54	812	1.33	0.9829	0.0119	0.0119	0.0108	0.0108		
PCB-159	41:57						0.007680	0.007680		
PCB-162	42:15						0.008465	0.008465		
PCB-167	42:42						0.008009	0.008009		
PCB-156	43:52						0.0118	0.0118		
PCB-157 (C156)	43:52						0.0118	0.0118		
PCB-169	47:05						0.007707	0.007707		
S Total Heptachlorobiphenyls					0.2571	0.1971	0.005995	0.005995		RQ
D PCB-188L	37:05	5742433	1.05	1.3133	78.6	78.6	0.0288	0.0288	78.60	
\$ PCB-178L	40:09	4463583	1.09	1.0313	77.8	77.8	0.0366	0.0366	77.80	
* PCB-180L	45:14	5562717	1.07		100.0	100.0				
D PCB-170L	46:29	4176279	1.05	0.8362	89.8	89.8	0.0452	0.0452	89.78	
D PCB-189L	49:35	5790656	0.99	1.4414	60.3	60.3	0.3305	0.3305	60.31	
PCB-188	37:07						0.004627	0.004627		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-179	37:28						0.004304	0.004304		
PCB-184	37:58						0.004494	0.004494		
PCB-176	38:20						0.004983	0.004983		
PCB-186	38:48						0.004170	0.004170		
PCB-178	40:10						0.006869	0.006869		
PCB-175	40:48						0.006452	0.006452		
PCB-187	41:04	1887	1.05	1.1018	0.0403	0.0345	0.005577	0.005577		RQ
PCB-182	41:16						0.006645	0.006645		
PCB-183	41:42	3621	1.05	0.9825	0.0847	0.0743	0.006254	0.006254		RQM
PCB-185 (C183)	41:42	3621	1.05	0.9825	0.0847	0.0743	0.006254	0.006254		RQM
PCB-174	41:56						0.006373	0.006373		
PCB-177	42:23	713	1.05	0.9773	0.0224	0.0147	0.006288	0.006288		RQ
PCB-181	42:44						0.006465	0.006465		
PCB-171	42:58						0.006582	0.006582		
PCB-173 (C171)	42:58						0.006582	0.006582		
PCB-172	44:36						0.007213	0.007213		
PCB-192	44:52						0.004566	0.004566		
PCB-180	45:15	3612	1.05	1.1676	0.0745	0.0624	0.005263	0.005263		RQM
PCB-193 (C180)	45:15	3612	1.05	1.1676	0.0745	0.0624	0.005263	0.005263		RQM
PCB-191	45:36						0.004767	0.004767		
PCB-170	46:29	555	1.05	1.1865	0.0352	0.0112	0.006241	0.006241		RQ
PCB-190	47:01						0.004612	0.004612		
PCB-189	49:37						0.0132	0.0132		
S Total Octachlorobiphenyls					0.4595	0.4359	0.005848	0.005848		RQ
D PCB-202L	42:27	4453088	0.92	0.9818	81.5	81.5	0.0273	0.0273	81.54	
* PCB-194L	51:42	6661275	0.91		100.0	100.0				
D PCB-205L	52:10	6791733	0.90	1.1786	86.5	86.5	0.0474	0.0474	86.51	
PCB-202	42:29						0.004669	0.004669		
PCB-201	43:24						0.004958	0.004958		
PCB-204	44:03						0.004613	0.004613		
PCB-197	44:18						0.004221	0.004221		
PCB-200	44:25						0.004802	0.004802		
PCB-198	47:14	2137	0.89	0.8698	0.0634	0.0552	0.005560	0.005560		RQM
PCB-199 (C198)	47:14	2137	0.89	0.8698	0.0634	0.0552	0.005560	0.005560		RQM
PCB-196	47:51	1971	1.01	0.7806	0.0567	0.0567	0.006195	0.006195		
PCB-203	48:03	981	0.89	0.9292	0.0302	0.0237	0.005205	0.005205		RQ
PCB-195	49:24	3470	0.89	0.8263	0.0707	0.0618	0.009242	0.009242		RQM
PCB-194	51:43	15769	0.85	0.9735	0.2385	0.2385	0.007844	0.007844		
PCB-205	52:11						0.007020	0.007020		
S Total Nonachlorobiphenyls							0.0105	0.0105		
D PCB-208L	49:07	6544531	0.81	0.9576	102.6	102.6	0.1890	0.1890	103	
D PCB-206L	53:55	4725897	0.80	0.6947	102.1	102.1	0.2605	0.2605	102	
PCB-208	49:08						0.008742	0.008742		
PCB-207	50:03						0.008457	0.008457		
PCB-206	53:56						0.0105	0.0105		RQU
D PCB-209L	55:32	4893052	0.72	0.6669	110.1	110.1	0.0805	0.0805	110	
DCB Decachlorobiphenyl	55:33						0.009501	0.009501		
S Polychlorinated biphenyls, Total					1.987		0.0216	0.0216		RQ

**QC Flag Legend**

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Lims ID: 140-36940-A-14-C  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Sample Type: Client  
Inject. Date: 28-Jun-2024 12:47:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033304-006  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 14:21:32 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 14:21:32

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:39	11:40	-1	0.728	1286942	519663	2329	5822	223		
202.0766	11:39	11:40	-1	0.728	438410	162259	1369	3422	119	2.94(2.66-3.60)	
PCB-3L											
200.0795	13:49	13:49	0	0.862	4085943	1303496	2329	5822	560		
202.0766	13:49	13:49	0	0.862	1342232	406310	1369	3422	297	3.04(2.66-3.60)	
PCB-1											
188.0393	11:39						101	252			
190.0363	11:39						48	120			
PCB-2											
188.0393	13:38	13:39	0	0.988	8265	2374	101	252	24		
190.0363	13:38	13:39	0	0.988	2632	1120	48	120	23	3.14(2.66-3.60)	
PCB-3											
188.0393	13:49	13:50	0	1.001	6773	2202	101	252	22		
190.0363	13:49	13:50	-1	1.000	3696	1327	48	120	28	1.83(2.66-3.60)	
	Empc Correction				2163	703	48	120	15		
PCB-4L											
234.0406	14:04	14:04	0	0.878	584864	190397	549	1372	347		
236.0376	14:04	14:04	0	0.878	362153	119015	159	397	749	1.61(1.33-1.79)	
PCB-9L											
234.0406	16:01	16:01	0		4820870	1376613	549	1372	2507		
236.0376	16:01	16:01	0		2949701	847394	159	397	5330	1.63(1.33-1.79)	
PCB-8L											
234.0406	16:52						549	1372			
236.0376	16:52						159	397			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:56	19:56	0	1.245	3521533	776903	549	1372	1415	1.59(1.33-1.79)	
236.0376	19:56	19:56	0	1.245	2210510	482690	159	397	3036		
PCB-4											
222.0003	14:05						37	92			
223.9974	14:05						41	102			
PCB-10											
222.0003	14:15						37	92			
223.9974	14:15						41	102			
PCB-9											
222.0003	16:02						37	92			
223.9974	16:02						41	102			
PCB-7											
222.0003	16:12	16:13	0	1.152	2835	674	37	92	18	1.94(1.33-1.79)	
	Empc Correction				2285	822	37	92	22		
223.9974	16:11	16:13	-1	1.151	1465	527	41	102	13		
PCB-6											
222.0003	16:25	16:27	-2	1.168	718	302	37	92	8	0.85(1.33-1.79)	
223.9974	16:25	16:27	-3	1.167	840	397	41	102	10		
	Empc Correction				460	193	41	102	5		
PCB-5											
222.0003	16:45						37	92			
223.9974	16:45						41	102			
PCB-8											
222.0003	16:55	16:53	2	1.203	1818	362	37	92	10	0.97(1.33-1.79)	RQM
223.9974	16:53	16:53	1	1.201	1879	823	41	102	20		
	Empc Correction				1165	232	41	102	6		M
PCB-14											
222.0003	18:29						37	92			
223.9974	18:29						41	102			
PCB-11											
222.0003	19:21	19:21	1	0.971	5850	1049	37	92	28	1.43(1.33-1.79)	M
223.9974	19:21	19:21	1	0.971	4084	921	41	102	22		
PCB-12											
222.0003	19:39	19:39	1	0.986	1335	381	37	92	10	0.81(1.33-1.79)	RQM
223.9974	19:39	19:39	1	0.986	1648	506	41	102	12		
	Empc Correction				855	244	41	102	6		M
PCB-13 (C12)											
222.0003	19:39	19:39	1	0.986	1335	381	37	92	10	0.81(1.33-1.79)	RQM
223.9974	19:39	19:39	1	0.986	1648	506	41	102	12		
	Empc Correction				855	244	41	102	6		M
PCB-15											
222.0003	19:57	19:57	0	1.001	1003	212	37	92	6	0.47(1.33-1.79)	RQM
223.9974	19:57	19:57	0	1.001	2134	450	41	102	11		
	Empc Correction				642	135	41	102	3		M
PCB-19L											
268.0016	17:10	17:10	0	0.841	452042	125828	660	1650	191	1.06(0.88-1.20)	
269.9986	17:10	17:10	0	0.841	426724	119804	691	1727	173		

RQM

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											
255.9613	22:08						53	132			
257.9584	22:08						44	110			
PCB-25											
255.9613	22:23						53	132			
257.9584	22:23						44	110			
PCB-31											
255.9613	22:41						53	132			
257.9584	22:41						44	110			
PCB-20											
255.9613	22:58	22:58	-1	0.852	4043	802	53	132	15		RQM
	Empc Correction				2637	785	53	132	15		M
257.9584	22:59	22:58	0	0.853	2536	755	44	110	17	1.59(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:58	-1	0.852	4043	802	53	132	15		RQM
	Empc Correction				2637	785	53	132	15		M
257.9584	22:59	22:58	0	0.853	2536	755	44	110	17	1.59(0.88-1.20)	
PCB-21											
255.9613	23:09						53	132			
257.9584	23:09						44	110			
PCB-33 (C21)											
255.9613	23:09						53	132			
257.9584	23:09						44	110			
PCB-22											
255.9613	23:38	23:37	1	0.877	528	181	53	132	3		RQ
257.9584	23:38	23:37	1	0.877	1668	293	44	110	7	0.32(0.88-1.20)	
	Empc Correction				507	174	44	110	4		
PCB-36											
255.9613	25:10						53	132			
257.9584	25:10						44	110			
PCB-39											
255.9613	25:31						53	132			
257.9584	25:31						44	110			
PCB-38											
255.9613	26:06						53	132			
257.9584	26:06						44	110			
PCB-35											
255.9613	26:34						53	132			
257.9584	26:34						44	110			
PCB-37											
255.9613	26:59						53	132			
257.9584	26:59						44	110			
PCB-54L											
301.9626	20:14	20:14	0	0.816	643713	156619	89	222	1760		
303.9597	20:14	20:14	0	0.816	785660	193904	59	147	3287	0.82(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-52L											
301.9626	24:47	24:47	0		3080086	705146	190	475	3711		
303.9597	24:47	24:47	0		3889952	877472	234	585	3750	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:42						190	475			
303.9597	32:42						234	585			
PCB-81L											
301.9626	33:41	33:41	0	1.360	2982541	570678	190	475	3004		
303.9597	33:41	33:41	0	1.360	3830674	718781	234	585	3072	0.78(0.65-0.89)	
PCB-77L											
301.9626	34:15	34:16	-1	1.382	3262208	573902	190	475	3021		
303.9597	34:16	34:16	0	1.383	4024086	722071	234	585	3086	0.81(0.65-0.89)	
PCB-54											
289.9224	20:16						4	10			
291.9194	20:16						10	25			
PCB-50											
289.9224	22:25						28	70			
291.9194	22:25						358	895			
PCB-53 (C50)											
289.9224	22:25						28	70			
291.9194	22:25						358	895			
PCB-45											
289.9224	23:09						28	70			
291.9194	23:09						358	895			
PCB-51 (C45)											
289.9224	23:09						28	70			
291.9194	23:09						358	895			
PCB-46											
289.9224	23:23						28	70			
291.9194	23:23						358	895			
PCB-52											
289.9224	24:48						28	70			
291.9194	24:48						358	895			
PCB-43											
289.9224	24:56						28	70			
291.9194	24:56						358	895			
PCB-73 (C43)											
289.9224	24:56						28	70			
291.9194	24:56						358	895			
PCB-49											
289.9224	25:14						28	70			
291.9194	25:14						358	895			
PCB-69 (C49)											
289.9224	25:14						28	70			
291.9194	25:14						358	895			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-48											
289.9224	25:34						28	70			
291.9194	25:34						358	895			
PCB-44											
289.9224	25:49						28	70			
291.9194	25:49						358	895			
PCB-47 (C44)											
289.9224	25:49						28	70			
291.9194	25:49						358	895			
PCB-65 (C44)											
289.9224	25:49						28	70			
291.9194	25:49						358	895			
PCB-59											
289.9224	26:07						28	70			
291.9194	26:07						358	895			
PCB-62 (C59)											
289.9224	26:07						28	70			
291.9194	26:07						358	895			
PCB-75 (C59)											
289.9224	26:07						28	70			
291.9194	26:07						358	895			
PCB-42											
289.9224	26:19						28	70			
291.9194	26:19						358	895			
PCB-40											
289.9224	26:49						28	70			
291.9194	26:49						358	895			
PCB-41 (C40)											
289.9224	26:49						28	70			
291.9194	26:49						358	895			
PCB-71 (C40)											
289.9224	26:49						28	70			
291.9194	26:49						358	895			
PCB-64											
289.9224	27:02						28	70			
291.9194	27:02						358	895			
PCB-72											
289.9224	27:52						28	70			
291.9194	27:52						358	895			
PCB-68											
289.9224	28:09						28	70			
291.9194	28:09						358	895			
PCB-57											
289.9224	28:35						28	70			
291.9194	28:35						358	895			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-58											
289.9224	28:49						28	70			
291.9194	28:49						358	895			
PCB-67											
289.9224	28:59						28	70			
291.9194	28:59						358	895			
PCB-63											
289.9224	29:14						28	70			
291.9194	29:14						358	895			
PCB-61											
289.9224	29:35						28	70			
291.9194	29:35						358	895			
PCB-70 (C61)											
289.9224	29:35						28	70			
291.9194	29:35						358	895			
PCB-74 (C61)											
289.9224	29:35						28	70			
291.9194	29:35						358	895			
PCB-76 (C61)											
289.9224	29:35						28	70			
291.9194	29:35						358	895			
PCB-66											
289.9224	29:54						28	70			
291.9194	29:54						358	895			
PCB-55											
289.9224	30:04						28	70			
291.9194	30:04						358	895			
PCB-56											
289.9224	30:35						28	70			
291.9194	30:35						358	895			
PCB-60											
289.9224	30:47						28	70			
291.9194	30:47						358	895			
PCB-80											
289.9224	31:11						28	70			
291.9194	31:11						358	895			
PCB-79											
289.9224	32:43						28	70			
291.9194	32:43						358	895			
PCB-78											
289.9224	33:16						28	70			
291.9194	33:16						358	895			
PCB-81											
289.9224	33:43						28	70			
291.9194	33:43						358	895			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-77											
289.9224	34:16						28	70			
291.9194	34:16						358	895			
PCB-104L											
337.9207	25:43	25:43	0	0.814	2842700	639900	112	280	5713		
339.9178	25:43	25:43	0	0.814	1787571	388011	56	140	6929	1.59(1.32-1.78)	
PCB-95L											
337.9207	28:41						112	280			
339.9178	28:41						56	140			
PCB-101L											
337.9207	31:36	31:37	-1		3123226	626422	112	280	5593		
339.9178	31:36	31:37	-1		1934863	391677	56	140	6994	1.61(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	3322479	656047	112	280	5858		
339.9178	34:17	34:17	0	1.085	2058264	415042	56	140	7411	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:14	36:15	-1	1.147	3337691	650787	2702	6755	241		
339.9178	36:14	36:15	-1	1.147	2221142	438025	2095	5237	209	1.50(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	3514344	688025	2702	6755	255		
339.9178	36:34	36:34	0	1.157	2343947	452042	2095	5237	216	1.50(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.174	3404107	663609	2702	6755	246		
339.9178	37:06	37:06	0	1.174	2253026	438320	2095	5237	209	1.51(1.32-1.78)	
PCB-105L											
337.9207	37:46	37:46	0	1.195	3461812	656079	2702	6755	243		
339.9178	37:45	37:46	-1	1.194	2226157	409257	2095	5237	195	1.56(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:13	0		4147432	788357	2702	6755	292		
339.9178	39:13	39:13	0		2739271	515528	2095	5237	246	1.51(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	3342853	611979	2702	6755	226		
339.9178	40:50	40:50	0	1.292	2186689	402495	2095	5237	192	1.53(1.32-1.78)	
PCB-104											
325.8804	25:45						35	87			
327.8775	25:45						1	2			
PCB-96											
325.8804	26:07						35	87			
327.8775	26:07						1	2			
PCB-103											
325.8804	28:02						35	87			
327.8775	28:02						1	2			
PCB-94											
325.8804	28:16						35	87			
327.8775	28:16						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95											
325.8804	28:42						35	87			
327.8775	28:42						1	2			
PCB-93											
325.8804	28:55						35	87			
327.8775	28:55						1	2			
PCB-100 (C93)											
325.8804	28:55						35	87			
327.8775	28:55						1	2			
PCB-98											
325.8804	29:04						35	87			
327.8775	29:04						1	2			
PCB-102 (C98)											
325.8804	29:04						35	87			
327.8775	29:04						1	2			
PCB-88											
325.8804	29:34						35	87			
327.8775	29:34						1	2			
PCB-91 (C88)											
325.8804	29:34						35	87			
327.8775	29:34						1	2			
PCB-84											
325.8804	29:49	29:49	0	1.160	822	243	35	87	7		RQ
	Empc Correction				492	176	35	87	5		
327.8775	29:51	29:49	3	1.161	318	114	1	2	114	2.58(1.32-1.78)	
PCB-89											
325.8804	30:15	30:15	-2	1.176	1033	265	35	87	8		RQM
	Empc Correction				520	189	35	87	5		M
327.8775	30:18	30:15	1	1.178	336	122	1	2	122	3.07(1.32-1.78)	
PCB-121											
325.8804	30:43						35	87			
327.8775	30:43						1	2			
PCB-92											
325.8804	31:03						35	87			
327.8775	31:03						1	2			
PCB-90											
325.8804	31:39	31:37	2	1.231	2467	389	35	87	11		RQM
	Empc Correction				1357	297	35	87	8		M
327.8775	31:37	31:37	-1	1.230	876	192	1	2	192	2.82(1.32-1.78)	M
PCB-101 (C90)											
325.8804	31:39	31:37	2	1.231	2467	389	35	87	11		RQM
	Empc Correction				1357	297	35	87	8		M
327.8775	31:37	31:37	-1	1.230	876	192	1	2	192	2.82(1.32-1.78)	M
PCB-113 (C90)											
325.8804	31:39	31:37	2	1.231	2467	389	35	87	11		RQM
	Empc Correction				1357	297	35	87	8		M
327.8775	31:37	31:37	-1	1.230	876	192	1	2	192	2.82(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-83											
325.8804	32:13						35	87			
327.8775	32:13						1	2			
PCB-99 (C83)											
325.8804	32:13						35	87			
327.8775	32:13						1	2			
PCB-112											
325.8804	32:19						35	87			
327.8775	32:19						1	2			
PCB-86											
325.8804	32:42	32:42	-1	1.271	2703	349	35	87	10		RQM
	Empc Correction				1901	378	35	87	11		M
327.8775	32:48	32:42	6	1.276	1227	244	1	2	244	2.20(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:42	32:42	-1	1.271	2703	349	35	87	10		RQM
	Empc Correction				1901	378	35	87	11		M
327.8775	32:48	32:42	6	1.276	1227	244	1	2	244	2.20(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:42	32:42	-1	1.271	2703	349	35	87	10		RQM
	Empc Correction				1901	378	35	87	11		M
327.8775	32:48	32:42	6	1.276	1227	244	1	2	244	2.20(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:42	32:42	-1	1.271	2703	349	35	87	10		RQM
	Empc Correction				1901	378	35	87	11		M
327.8775	32:48	32:42	6	1.276	1227	244	1	2	244	2.20(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:42	32:42	-1	1.271	2703	349	35	87	10		RQM
	Empc Correction				1901	378	35	87	11		M
327.8775	32:48	32:42	6	1.276	1227	244	1	2	244	2.20(1.32-1.78)	M
PCB-125 (C86)											
325.8804	32:42	32:42	-1	1.271	2703	349	35	87	10		RQM
	Empc Correction				1901	378	35	87	11		M
327.8775	32:48	32:42	6	1.276	1227	244	1	2	244	2.20(1.32-1.78)	M
PCB-85											
325.8804	33:26						35	87			RQU
327.8775	33:26						1	2			
PCB-116 (C85)											
325.8804	33:26						35	87			RQU
327.8775	33:26						1	2			
PCB-117 (C85)											
325.8804	33:26						35	87			RQU
327.8775	33:26						1	2			
PCB-110											
325.8804	33:37	33:38	-1	1.307	1538	484	35	87	14		RQ
327.8775	33:38	33:38	-1	1.308	2425	446	1	2	446	0.63(1.32-1.78)	
	Empc Correction				992	312	1	2	312		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-115 (C110)											RQ
325.8804	33:37	33:38	-1	1.307	1538	484	35	87	14		
327.8775	33:38	33:38	-1	1.308	2425	446	1	2	446	0.63(1.32-1.78)	
Empc Correction					992	312	1	2	312		
PCB-82											
325.8804	33:56						35	87			
327.8775	33:56						1	2			
PCB-111											
325.8804	34:18						35	87			
327.8775	34:18						1	2			
PCB-120											
325.8804	34:46						35	87			
327.8775	34:46						1	2			
PCB-108											
325.8804	35:54						63	157			
327.8775	35:54						36	90			
PCB-124 (C108)											
325.8804	35:54						63	157			
327.8775	35:54						36	90			
PCB-107											
325.8804	36:09						63	157			
327.8775	36:09						36	90			
PCB-123											
325.8804	36:15						63	157			
327.8775	36:15						36	90			
PCB-106											
325.8804	36:22						63	157			
327.8775	36:22						36	90			
PCB-118											
325.8804	36:36						63	157			
327.8775	36:36						36	90			
PCB-122											
325.8804	36:57						63	157			
327.8775	36:57						36	90			
PCB-114											
325.8804	37:07						63	157			
327.8775	37:07						36	90			
PCB-105											RQM
325.8804	37:49	37:49	2	1.001	1782	314	63	157	5		M
Empc Correction					1097	567	63	157	9		
327.8775	37:44	37:49	-2	0.999	708	366	36	90	10	2.52(1.32-1.78)	
PCB-127											
325.8804	39:14						63	157			
327.8775	39:14						36	90			
PCB-126											
325.8804	40:52						63	157			
327.8775	40:52						36	90			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-155L											
371.8817	31:22	31:22	-1	0.790	2413429	511879	83	207	6167		
373.8788	31:22	31:22	-1	0.790	1881278	396897	117	292	3392	1.28(1.05-1.43)	
PCB-153L											
371.8817	38:26	38:26	0	0.900	66858	12589	134	335	94		
373.8788	38:26	38:26	0	0.900	47520	11142	1850	4625	6	1.41(1.05-1.43)	
PCB-138L											
371.8817	39:42	39:42	0		3691241	700655	134	335	5229		
373.8788	39:42	39:42	0		2854829	559715	1850	4625	303	1.29(1.05-1.43)	
PCB-167L											
371.8817	42:41	42:41	0	1.075	3845327	722722	134	335	5393		
373.8788	42:41	42:41	0	1.075	3018583	563985	1850	4625	305	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:51	43:51	0	1.105	7703111	981314	134	335	7323		
373.8788	43:51	43:51	0	1.105	6035919	771556	1850	4625	417	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:51	43:51	0	1.105	7703111	981314	134	335	7323		
373.8788	43:51	43:51	0	1.105	6035919	771556	1850	4625	417	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:04	47:04	0	1.186	3947726	710851	134	335	5305		
373.8788	47:04	47:04	0	1.186	3120888	572303	1850	4625	309	1.26(1.05-1.43)	
PCB-155											
359.8415	31:23						7	17			
361.8385	31:23						2	5			
PCB-152											
359.8415	31:36						7	17			
361.8385	31:36						2	5			
PCB-150											
359.8415	31:46						7	17			
361.8385	31:46						2	5			
PCB-136											
359.8415	32:09						7	17			
361.8385	32:09						2	5			
PCB-145											
359.8415	32:25						7	17			
361.8385	32:25						2	5			
PCB-148											
359.8415	33:55						7	17			
361.8385	33:55						2	5			
PCB-135											
359.8415	34:31						7	17			
361.8385	34:31						2	5			
PCB-151 (C135)											
359.8415	34:31						7	17			
361.8385	34:31						2	5			

RQ

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-153											
359.8415	38:28	38:29	-1	0.901	1279	348	37	92	9		
361.8385	38:27	38:29	-2	0.901	932	221	9	22	25	1.37(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:28	38:29	-1	0.901	1279	348	37	92	9		
361.8385	38:27	38:29	-2	0.901	932	221	9	22	25	1.37(1.05-1.43)	
PCB-141											
359.8415	38:40						37	92			
361.8385	38:40						9	22			
PCB-130											
359.8415	39:05						37	92			
361.8385	39:05						9	22			
PCB-137											
359.8415	39:17						37	92			
361.8385	39:17						9	22			
PCB-164											
359.8415	39:25						37	92			
361.8385	39:25						9	22			
PCB-129											
359.8415	39:41	39:46	-2	0.930	2087	465	37	92	13		M
361.8385	39:46	39:46	2	0.931	1582	312	9	22	35	1.32(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:41	39:46	-2	0.930	2087	465	37	92	13		M
361.8385	39:46	39:46	2	0.931	1582	312	9	22	35	1.32(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:41	39:46	-2	0.930	2087	465	37	92	13		M
361.8385	39:46	39:46	2	0.931	1582	312	9	22	35	1.32(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:41	39:46	-2	0.930	2087	465	37	92	13		M
361.8385	39:46	39:46	2	0.931	1582	312	9	22	35	1.32(1.05-1.43)	M
PCB-158											
359.8415	40:06						37	92			
361.8385	40:06						9	22			
PCB-128											
359.8415	40:54	40:57	-3	0.958	464	157	37	92	4		
361.8385	40:51	40:57	-6	0.957	348	182	9	22	20	1.33(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:54	40:57	-3	0.958	464	157	37	92	4		
361.8385	40:51	40:57	-6	0.957	348	182	9	22	20	1.33(1.05-1.43)	
PCB-159											
359.8415	41:57						37	92			
361.8385	41:57						9	22			
PCB-162											
359.8415	42:15						37	92			
361.8385	42:15						9	22			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-167											
359.8415	42:42						37	92			
361.8385	42:42						9	22			
PCB-156											
359.8415	43:52						37	92			
361.8385	43:52						9	22			
PCB-157 (C156)											
359.8415	43:52						37	92			
361.8385	43:52						9	22			
PCB-169											
359.8415	47:06						37	92			
361.8385	47:06						9	22			
PCB-188L											
405.8428	37:05	37:06	-1	0.820	2937572	589428	114	285	5170		
407.8398	37:05	37:06	-1	0.820	2804861	553208	47	117	11770	1.05(0.89-1.21)	
PCB-178L											
405.8428	40:09	40:08	0	0.888	2326763	457294	114	285	4011		
407.8398	40:09	40:08	0	0.888	2136820	424829	47	117	9039	1.09(0.89-1.21)	
PCB-180L											
405.8428	45:14	45:14	0		2879158	549842	114	285	4823		
407.8398	45:14	45:14	0		2683559	514355	47	117	10944	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:29	46:29	0	1.028	2140853	415481	114	285	3645		
407.8398	46:29	46:29	0	1.028	2035426	394751	47	117	8399	1.05(0.89-1.21)	
PCB-189L											
405.8428	49:35	49:35	0	1.096	2884111	534650	1375	3437	389		
407.8398	49:35	49:35	0	1.096	2906545	546215	1012	2530	540	0.99(0.89-1.21)	
PCB-188											
393.8025	37:06						23	57			
395.7995	37:06						1	2			
PCB-179											
393.8025	37:27						23	57			
395.7995	37:27						1	2			
PCB-184											
393.8025	37:58						23	57			
395.7995	37:58						1	2			
PCB-176											
393.8025	38:20						23	57			
395.7995	38:20						1	2			
PCB-186											
393.8025	38:47						23	57			
395.7995	38:47						1	2			
PCB-178											
393.8025	40:09						23	57			
395.7995	40:09						1	2			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-175											
393.8025	40:47						23	57			
395.7995	40:47						1	2			
PCB-187											
393.8025	41:04	41:04	0	1.108	967	251	23	57	11		RQ
395.7995	41:04	41:04	0	1.108	1234	435	1	2	435	0.78(0.89-1.21)	
	Empc Correction				920	239	1	2	239		
PCB-182											
393.8025	41:15						23	57			
395.7995	41:15						1	2			
PCB-183											
393.8025	41:42	41:42	2	1.125	1855	534	23	57	23		RQM
395.7995	41:40	41:42	-1	1.124	2271	525	1	2	525	0.82(0.89-1.21)	M
	Empc Correction				1766	508	1	2	508		
PCB-185 (C183)											
393.8025	41:42	41:42	2	1.125	1855	534	23	57	23		RQM
395.7995	41:40	41:42	-1	1.124	2271	525	1	2	525	0.82(0.89-1.21)	M
	Empc Correction				1766	508	1	2	508		
PCB-174											
393.8025	41:55						23	57			
395.7995	41:55						1	2			
PCB-177											
393.8025	42:23	42:22	2	1.143	738	230	23	57	10		RQ
	Empc Correction				365	114	23	57	5		
395.7995	42:19	42:22	-2	1.141	348	109	1	2	109	2.12(0.89-1.21)	
PCB-181											
393.8025	42:44						23	57			
395.7995	42:44						1	2			
PCB-171											
393.8025	42:57						23	57			
395.7995	42:57						1	2			
PCB-173 (C171)											
393.8025	42:57						23	57			
395.7995	42:57						1	2			
PCB-172											
393.8025	44:36						23	57			
395.7995	44:36						1	2			
PCB-192											
393.8025	44:52						23	57			
395.7995	44:52						1	2			
PCB-180											
393.8025	45:15	45:14	2	0.913	2550	623	23	57	27		RQM
	Empc Correction				1850	347	23	57	15		M
395.7995	45:14	45:14	1	0.912	1762	331	1	2	331	1.45(0.89-1.21)	M
PCB-193 (C180)											
393.8025	45:15	45:14	2	0.913	2550	623	23	57	27		RQM
	Empc Correction				1850	347	23	57	15		M
395.7995	45:14	45:14	1	0.912	1762	331	1	2	331	1.45(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-191											
393.8025	45:36						23	57			
395.7995	45:36						1	2			
PCB-170											
393.8025	46:29	46:30	-1	0.938	1475	443	23	57	19		RQ
	Empc Correction				284	107	23	57	5		
395.7995	46:29	46:30	-1	0.938	271	102	1	2	102	5.44(0.89-1.21)	
PCB-190											
393.8025	47:02						23	57			
395.7995	47:02						1	2			
PCB-189											
393.8025	49:37						38	95			
395.7995	49:37						17	42			
PCB-202L											
439.8038	42:27	42:27	0	0.821	2138120	419315	63	157	6656		
441.8008	42:27	42:27	0	0.821	2314968	449114	51	127	8806	0.92(0.76-1.02)	
PCB-194L											
439.8038	51:42	51:42	0		3169571	593432	122	305	4864		
441.8008	51:42	51:42	0		3491704	659047	158	395	4171	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:10	52:10	0	1.009	3222587	587850	122	305	4818		
441.8008	52:09	52:10	-1	1.009	3569146	656174	158	395	4153	0.90(0.76-1.02)	
PCB-202											
427.7635	42:29						7	17			
429.7606	42:29						10	25			
PCB-201											
427.7635	43:24						7	17			
429.7606	43:24						10	25			
PCB-204											
427.7635	44:04						7	17			
429.7606	44:04						10	25			
PCB-197											
427.7635	44:18						7	17			
429.7606	44:18						10	25			
PCB-200											
427.7635	44:25						7	17			
429.7606	44:25						10	25			
PCB-198											
427.7635	47:14	47:14	4	1.113	1326	328	7	17	47		RQM
	Empc Correction				1006	337	7	17	48		M
429.7606	47:13	47:14	3	1.112	1131	379	10	25	38	1.17(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:14	47:14	4	1.113	1326	328	7	17	47		RQM
	Empc Correction				1006	337	7	17	48		M
429.7606	47:13	47:14	3	1.112	1131	379	10	25	38	1.17(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-196											
427.7635	47:51	47:51	0	0.917	992	330	7	17	47		
429.7606	47:52	47:51	1	0.918	979	223	10	25	22	1.01(0.76-1.02)	
PCB-203											
427.7635	48:03	48:03	0	0.921	462	229	7	17	33		RQ
429.7606	48:02	48:03	-1	0.921	787	185	10	25	19	0.59(0.76-1.02)	
Empc Correction					519	257	10	25	26		
PCB-195											
427.7635	49:24	49:24	2	0.947	2133	416	19	47	22		RQM
Empc Correction					1634	514	19	47	27		M
429.7606	49:24	49:24	2	0.947	1836	578	19	47	30	1.16(0.76-1.02)	
PCB-194											
427.7635	51:43	51:43	0	0.991	7243	1596	19	47	84		
429.7606	51:43	51:43	0	0.991	8526	1796	19	47	95	0.85(0.76-1.02)	
PCB-205											
427.7635	52:11						19	47			
429.7606	52:11						19	47			
PCB-208L											
473.7648	49:07	49:07	0	0.950	2919323	545993	407	1017	1342		
475.7619	49:07	49:07	0	0.950	3625208	680954	500	1250	1362	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:55	53:54	0	1.043	2105691	385305	407	1017	947		
475.7619	53:55	53:54	1	1.043	2620206	485130	500	1250	970	0.80(0.65-0.89)	
PCB-208											
461.7246	49:08						47	117			
463.7216	49:08						2	5			
PCB-207											
461.7246	50:04						47	117			
463.7216	50:04						2	5			
PCB-206											
461.7246	53:56						47	117			RQU
463.7216	53:56						2	5			
PCB-209L											
507.7258	55:32	55:32	0	1.074	2045046	357303	118	295	3028		
509.7229	55:32	55:32	0	1.074	2848006	503574	151	377	3335	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:34						21	52			
497.6826	55:34						15	37			

## QC Flag Legend

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

U - Marked Undetected

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d

Injection Date: 28-Jun-2024 12:47:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER

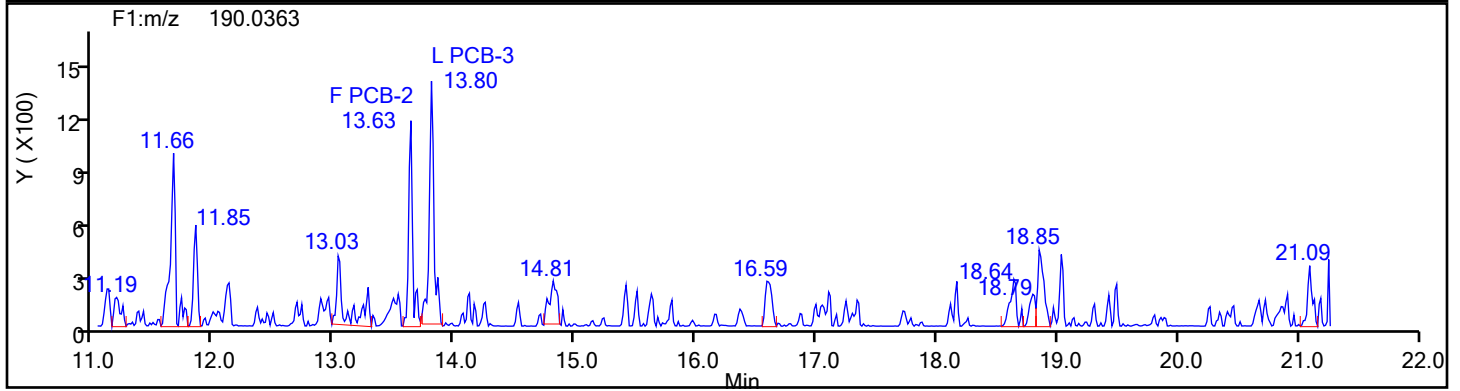
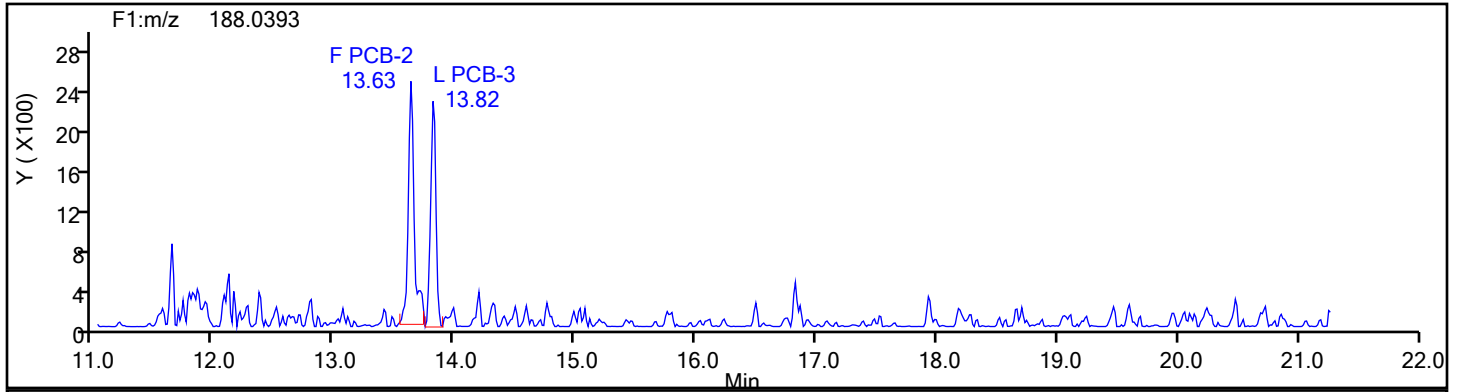
Worklist#: 88219

Sample Line#: 6

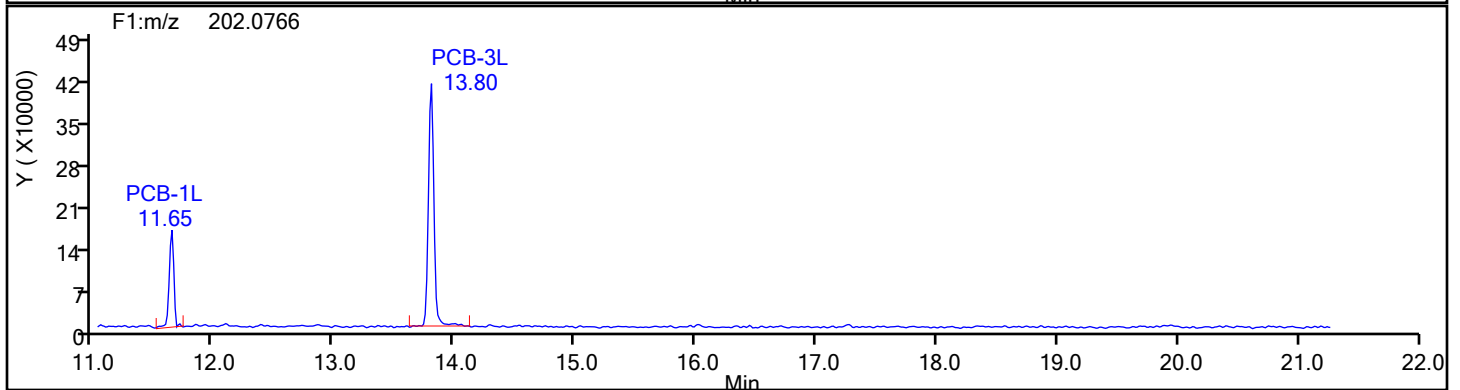
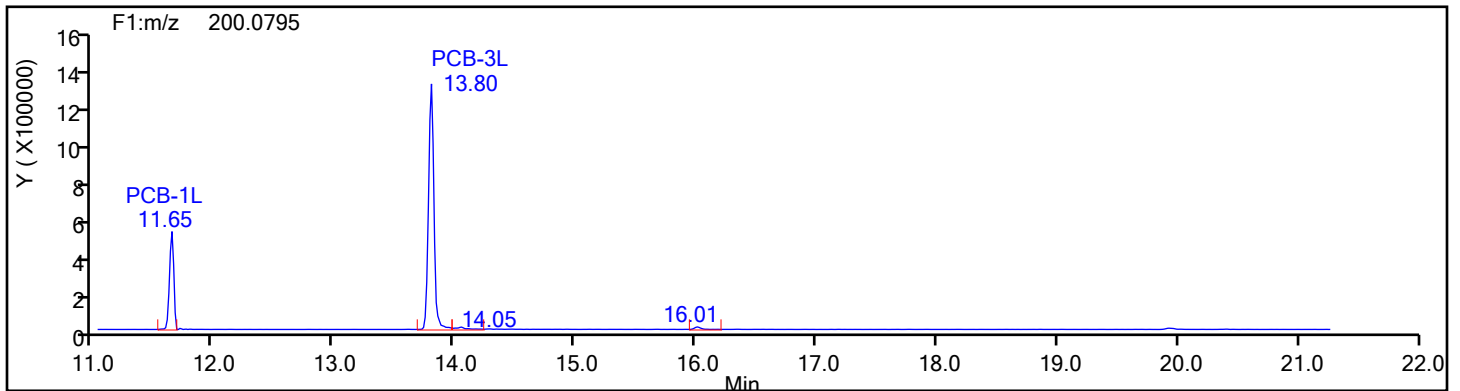
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1

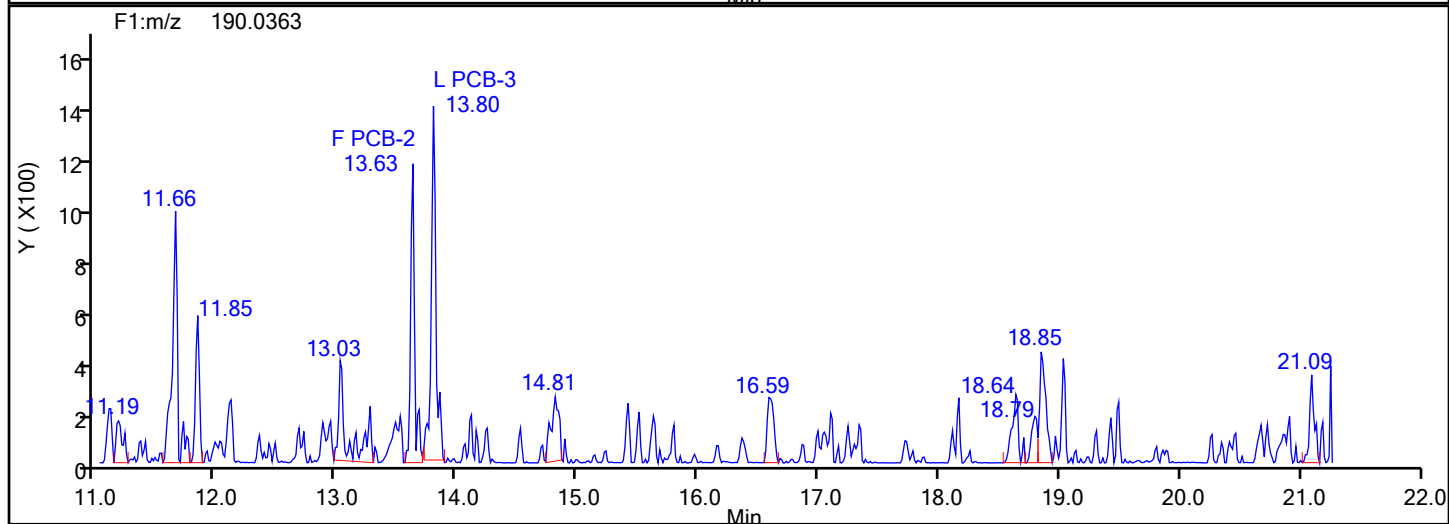
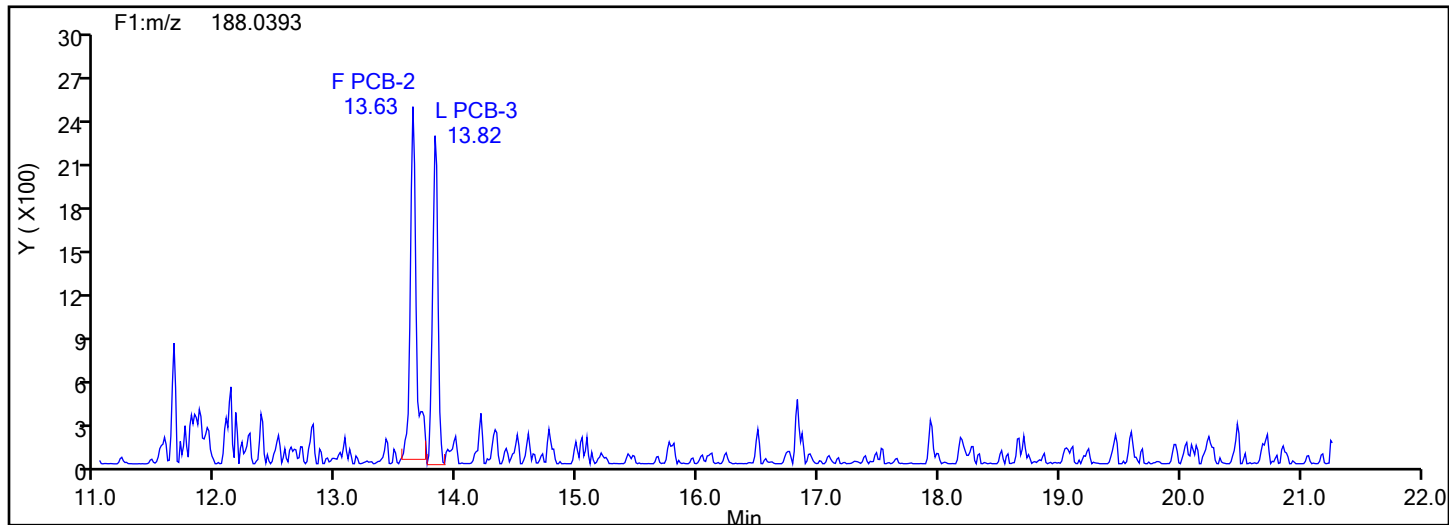


MoPCB F1 Standards

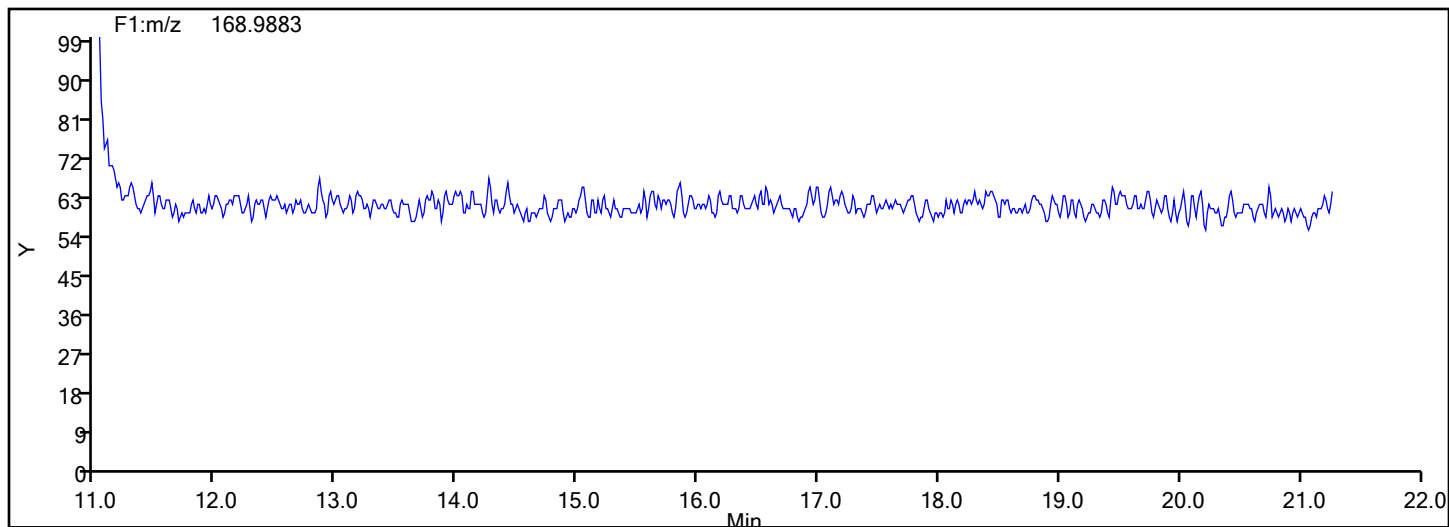


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
MoPCB F1

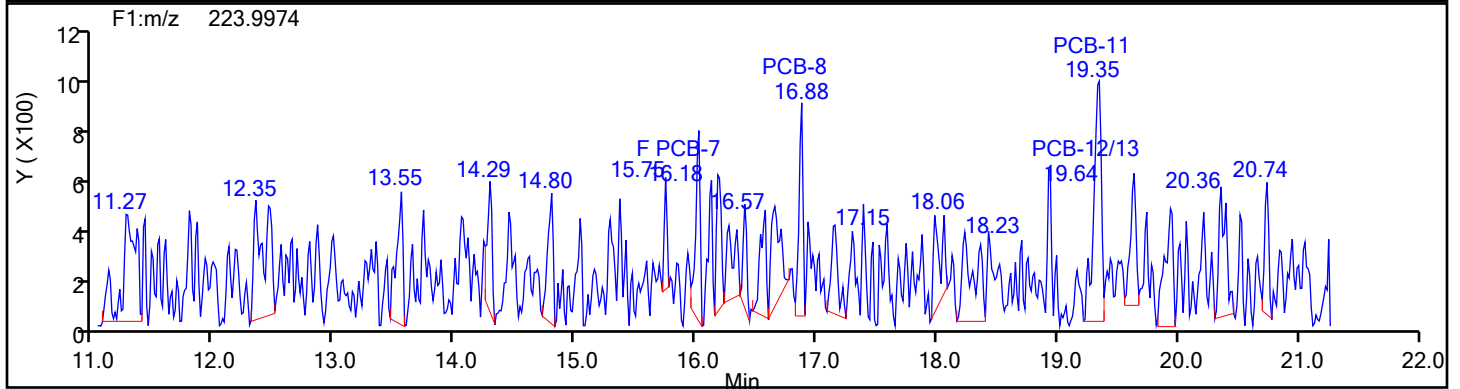
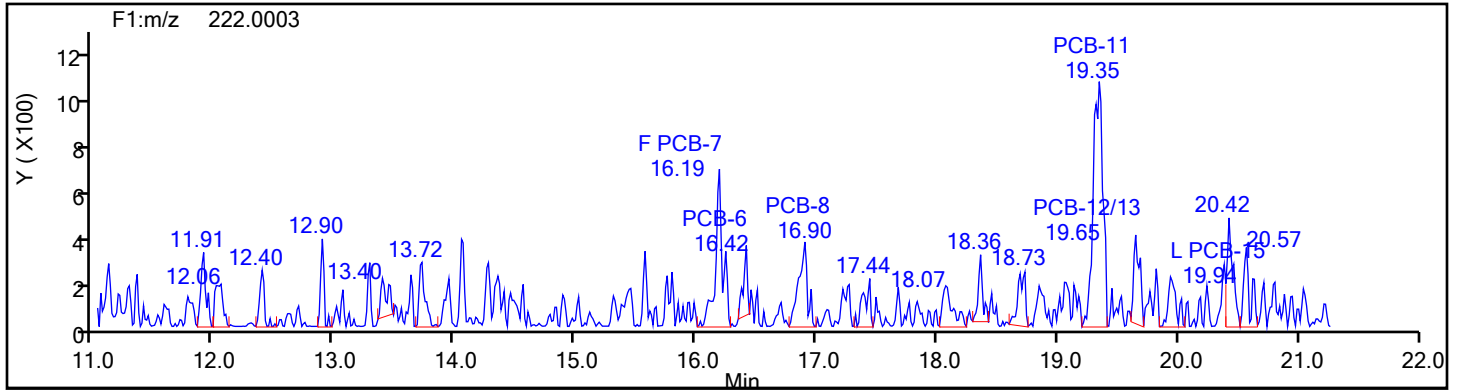


## MoPCB F1 Lock Mass

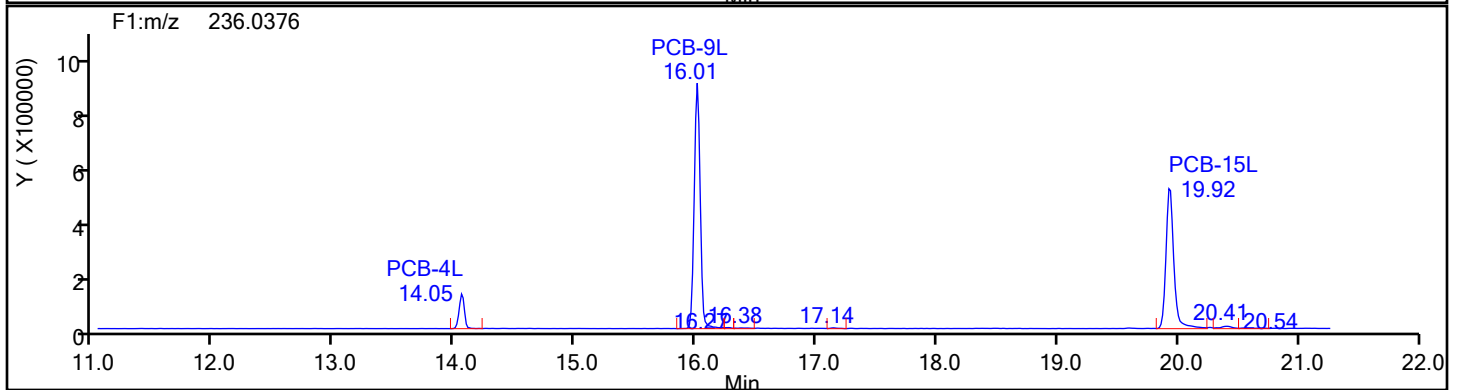
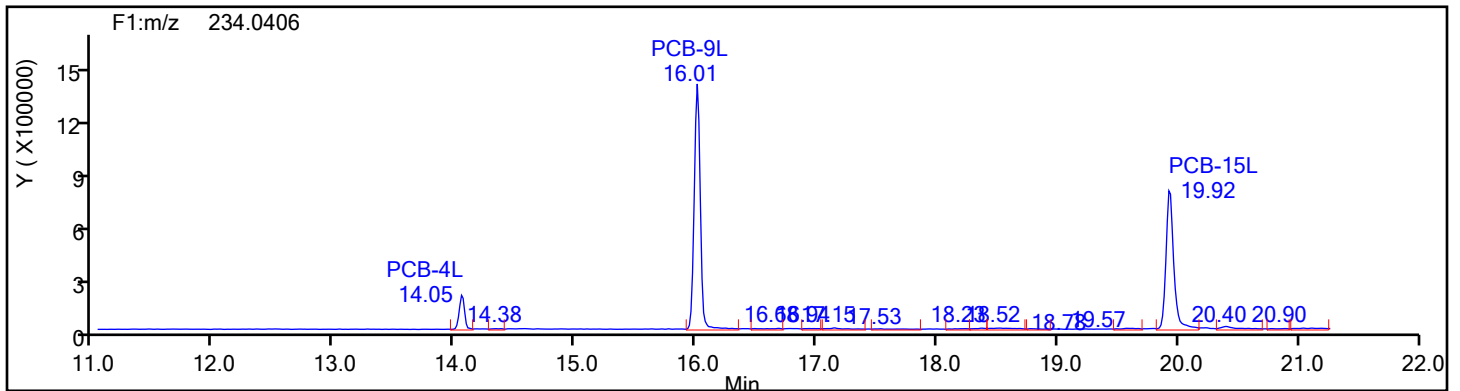


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1

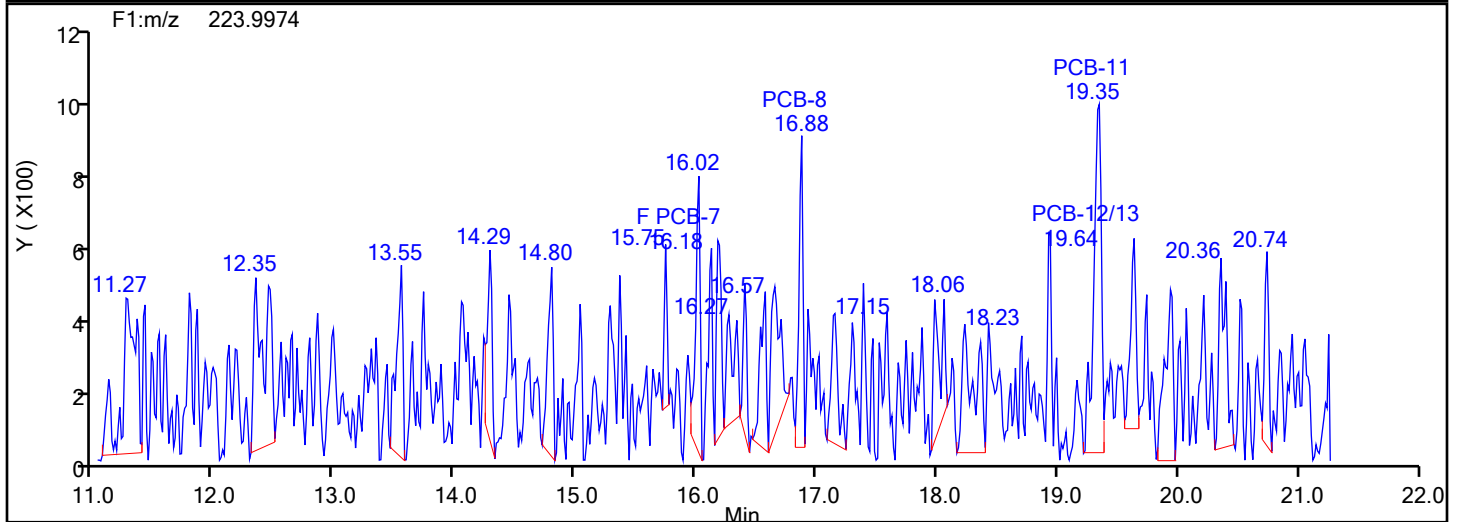
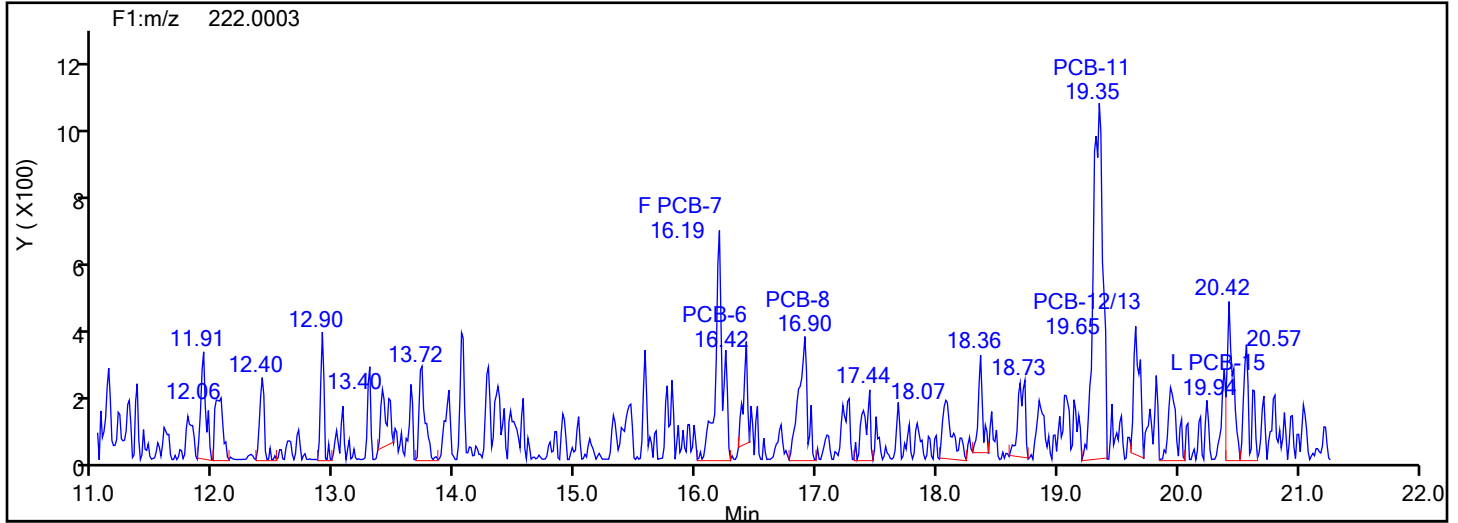


## DiPCB F1 Standards

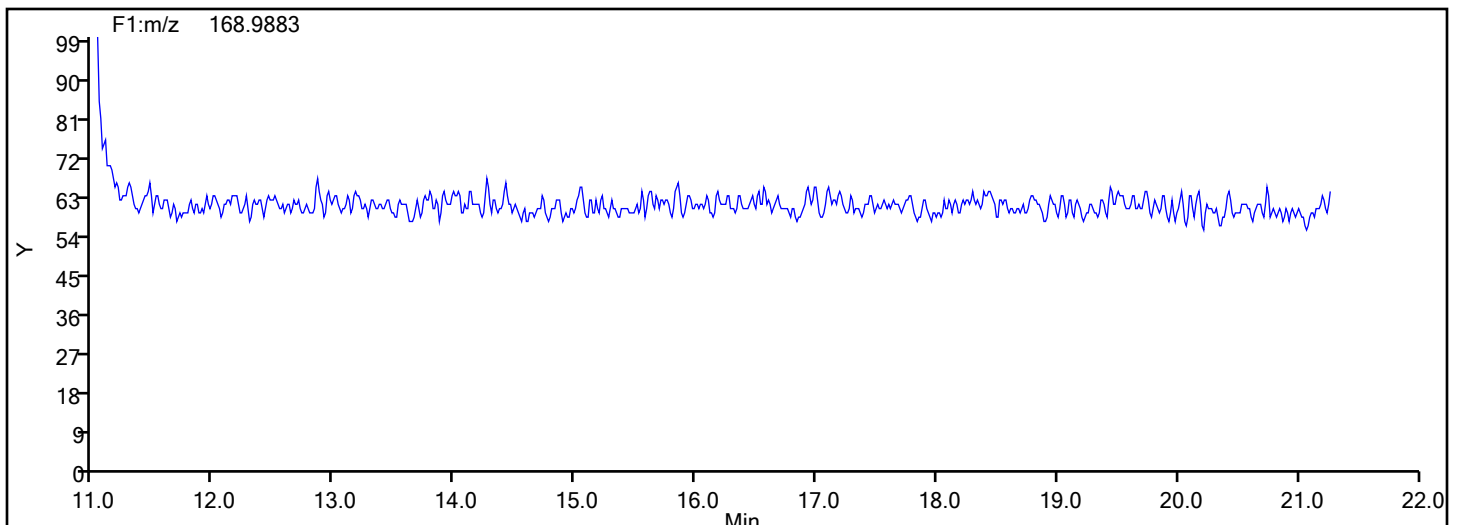


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



## DiPCB F1 Lock Mass





## Eurofins Knoxville

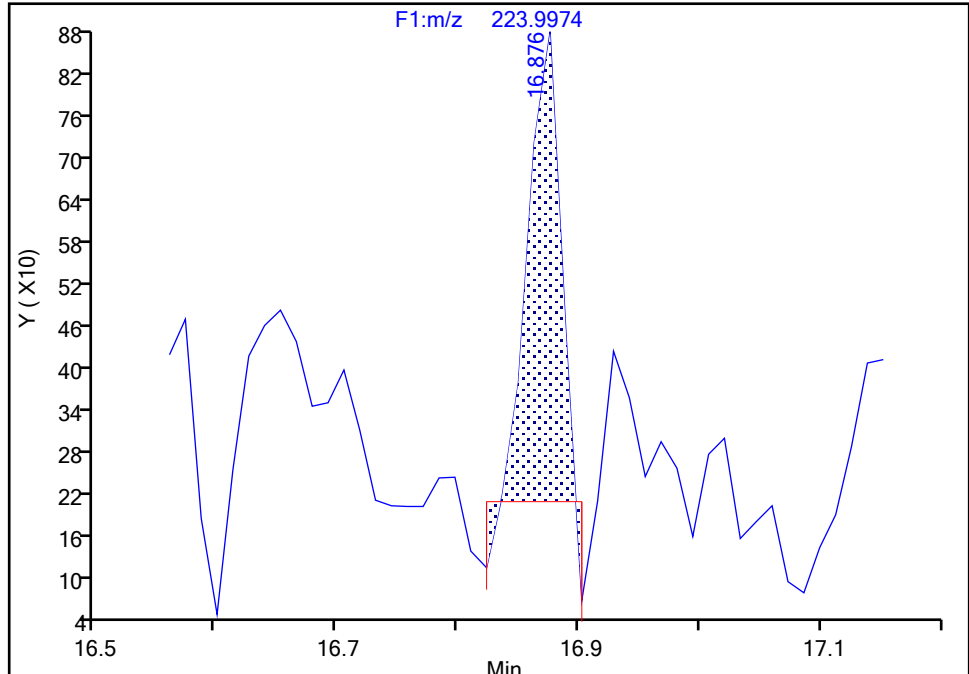
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Injection Date: 28-Jun-2024 12:47:00 Instrument ID: D2D  
Lims ID: 140-36940-A-14-C Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F1(11.07 :21.70 )

**PCB-8, CAS: 34883-43-7**

Signal: 2

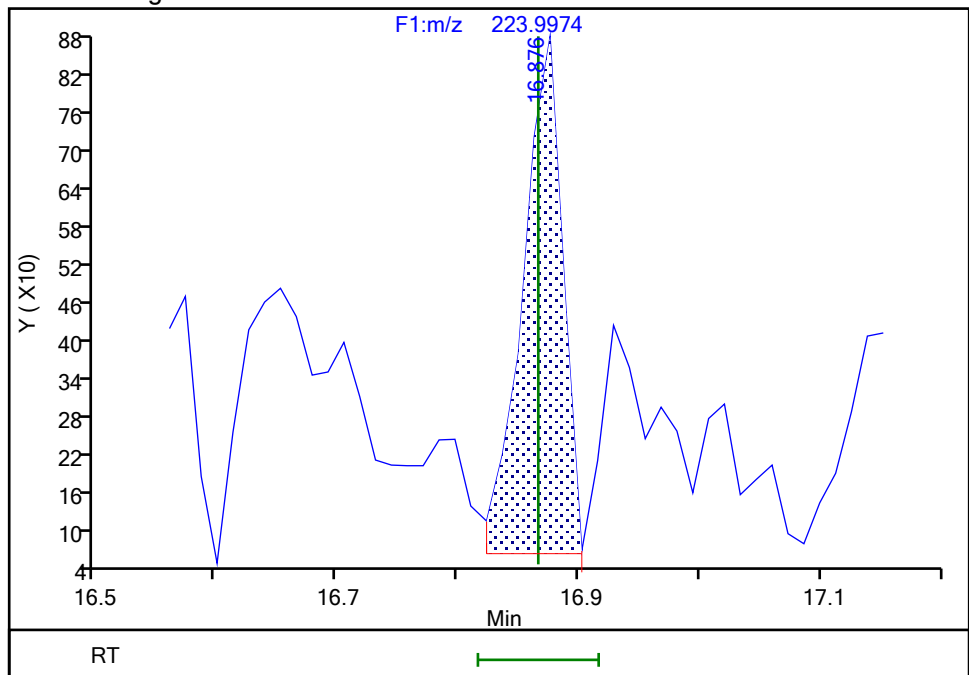
RT: 16.88  
Area: 1179  
Amount: 0.056482  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.88  
Area: 1879  
Amount: 0.069674  
Amount Units: pg/ul

## Manual Integration Results



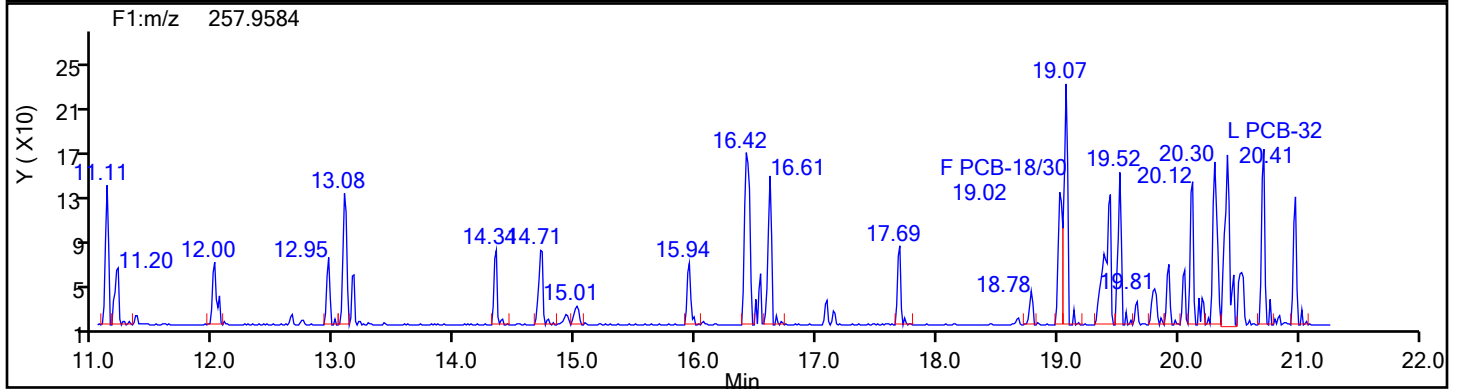
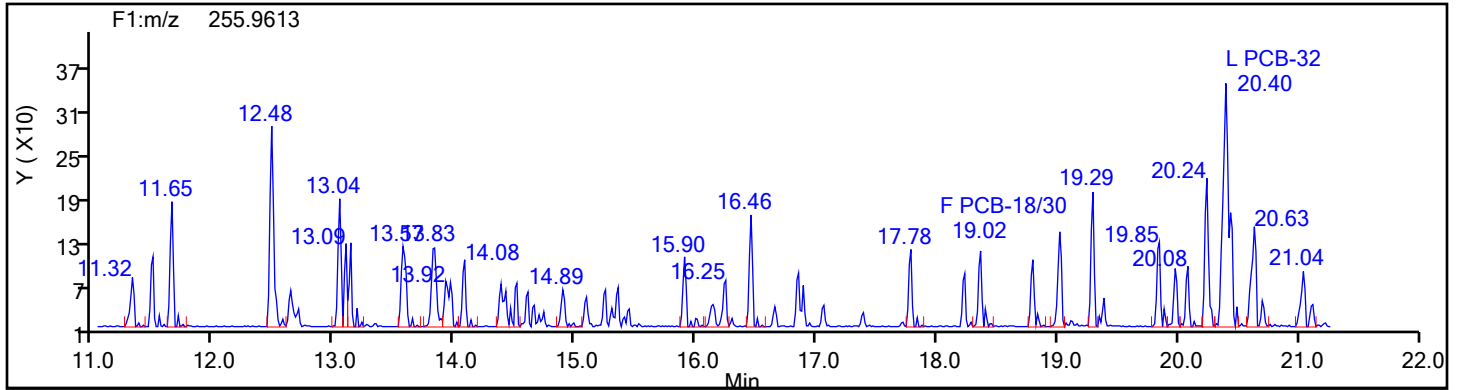
Reviewer: P0IK, 28-Jun-2024 14:14:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

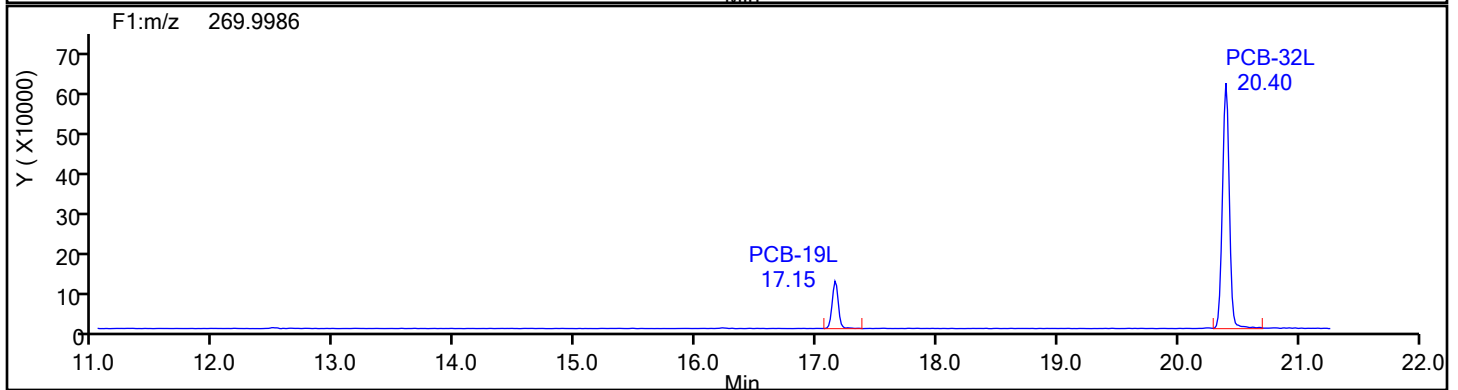
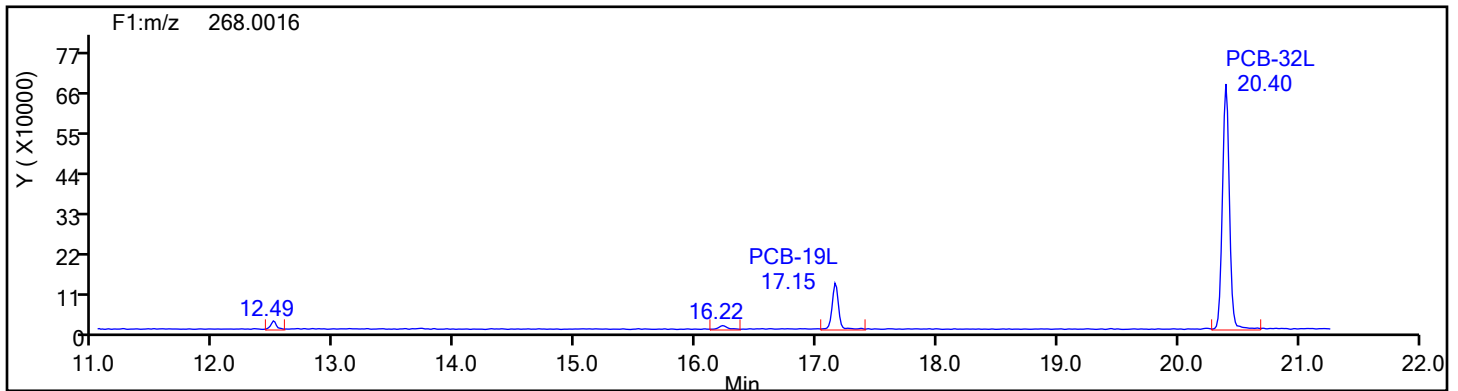
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1

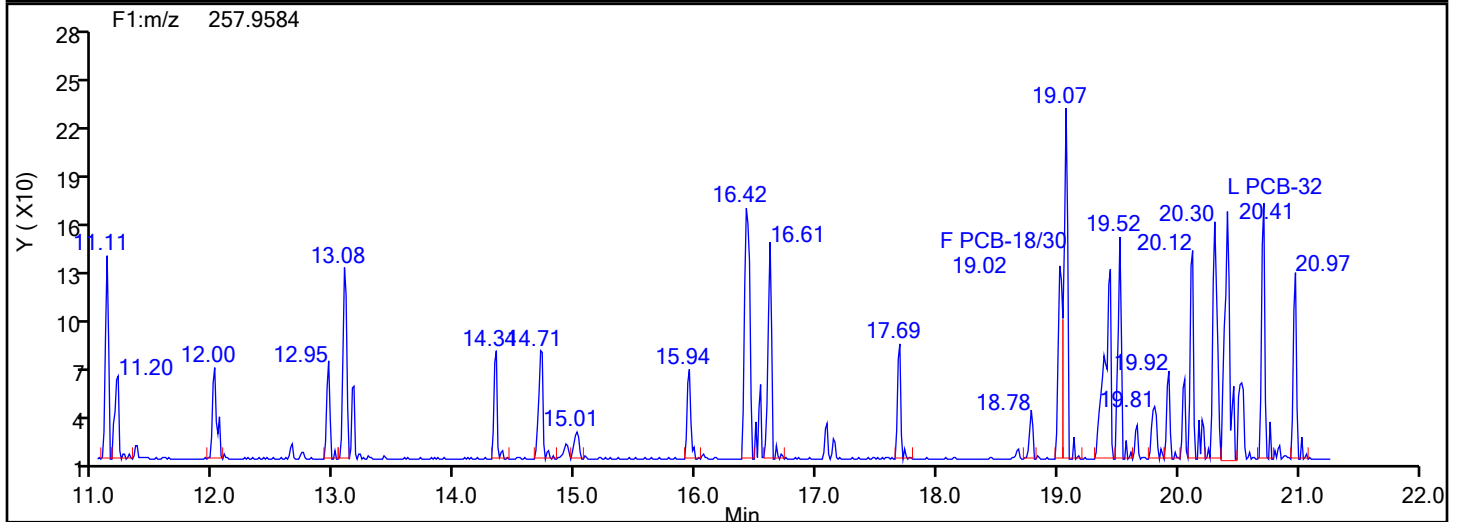
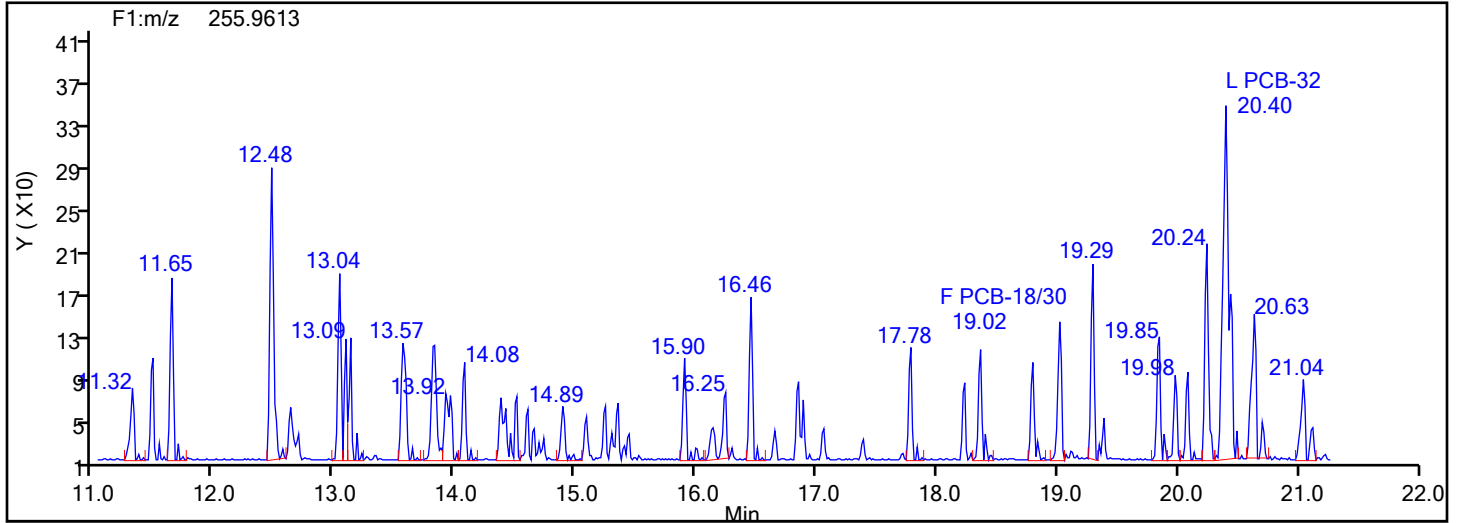


## TriPCB F1 Standards

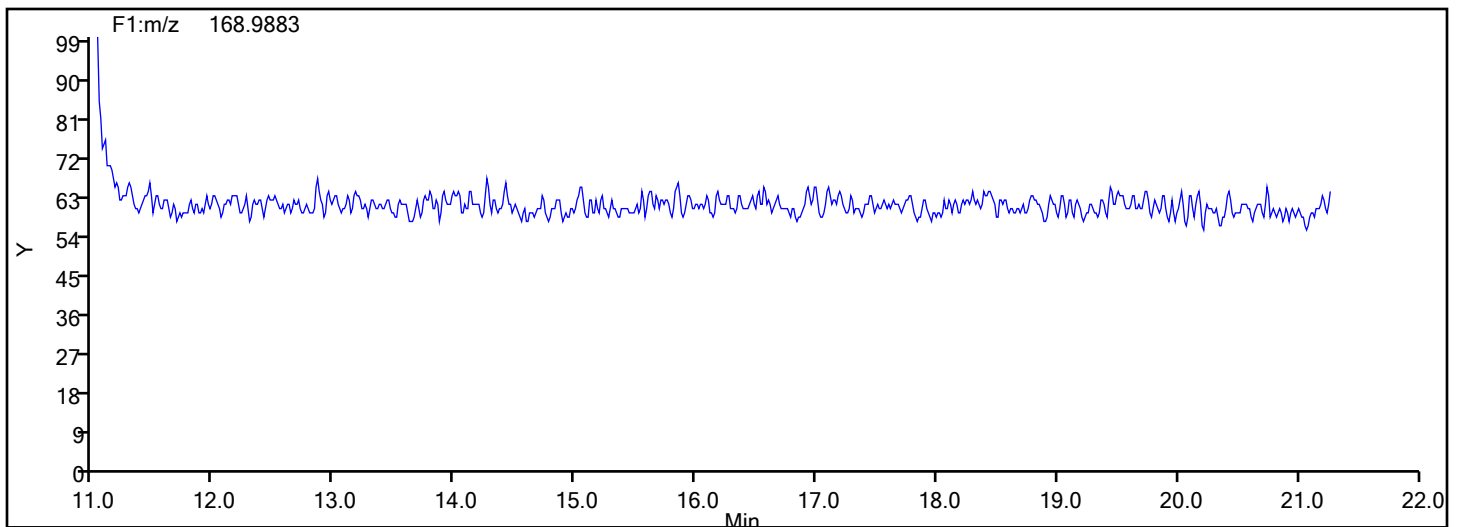


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1

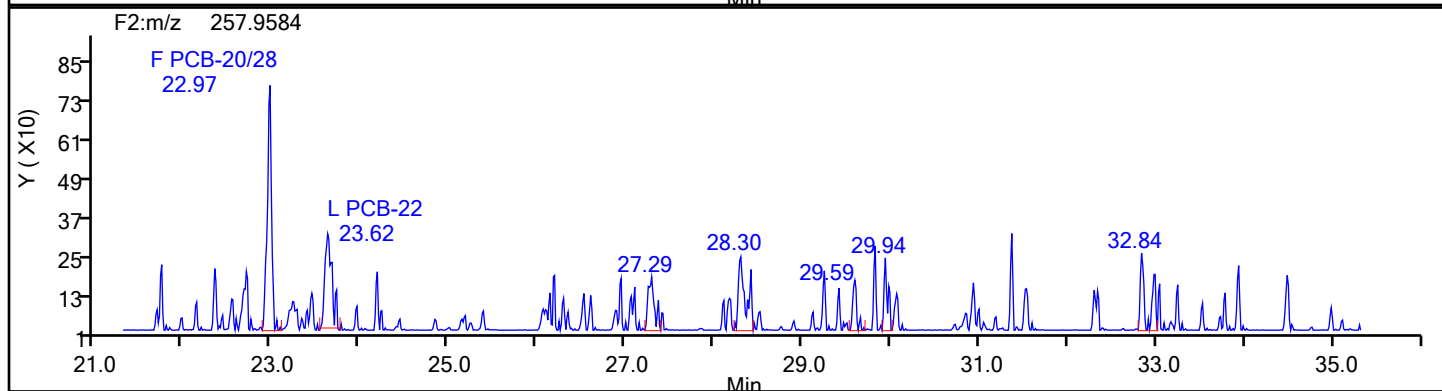
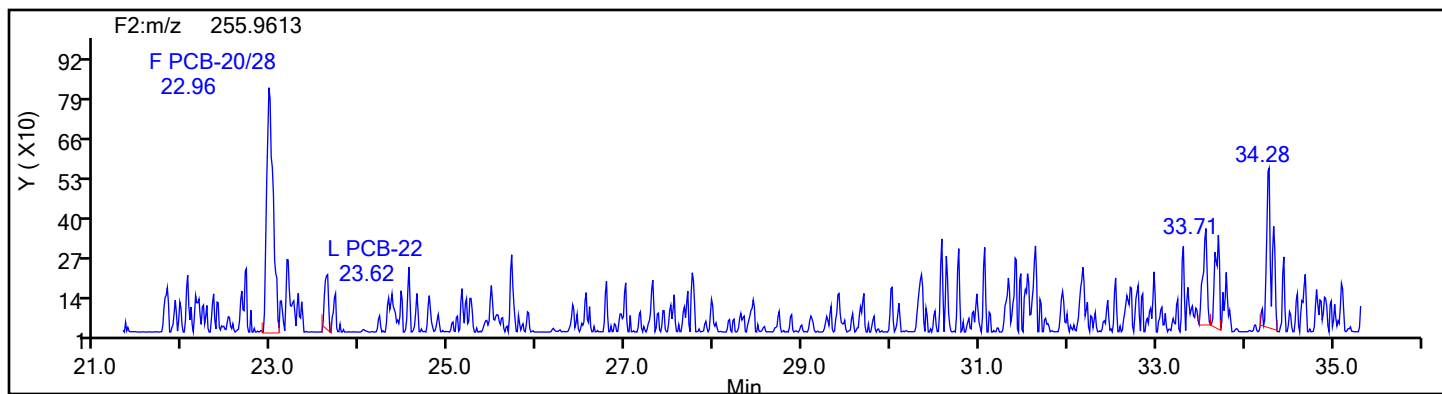


## TriPCB F1 Lock Mass

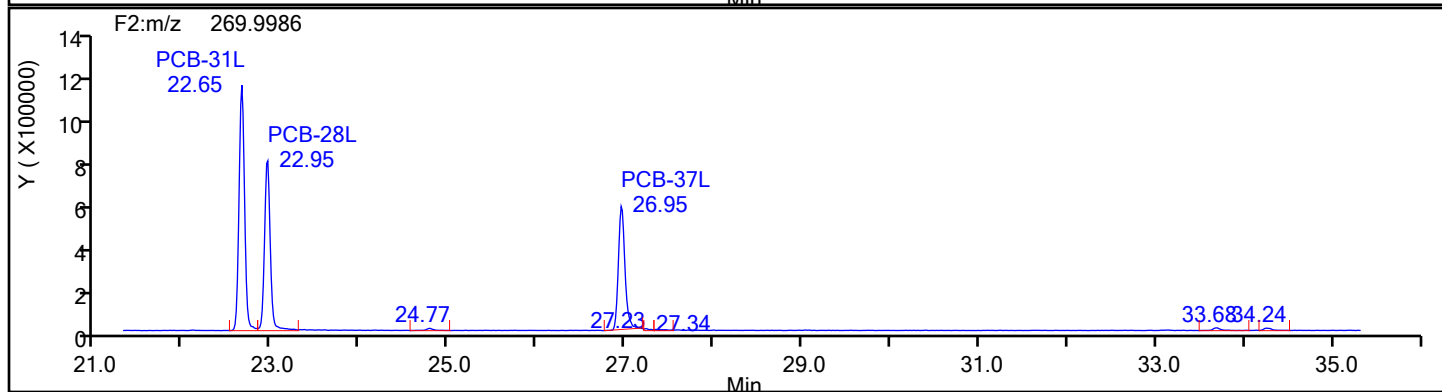
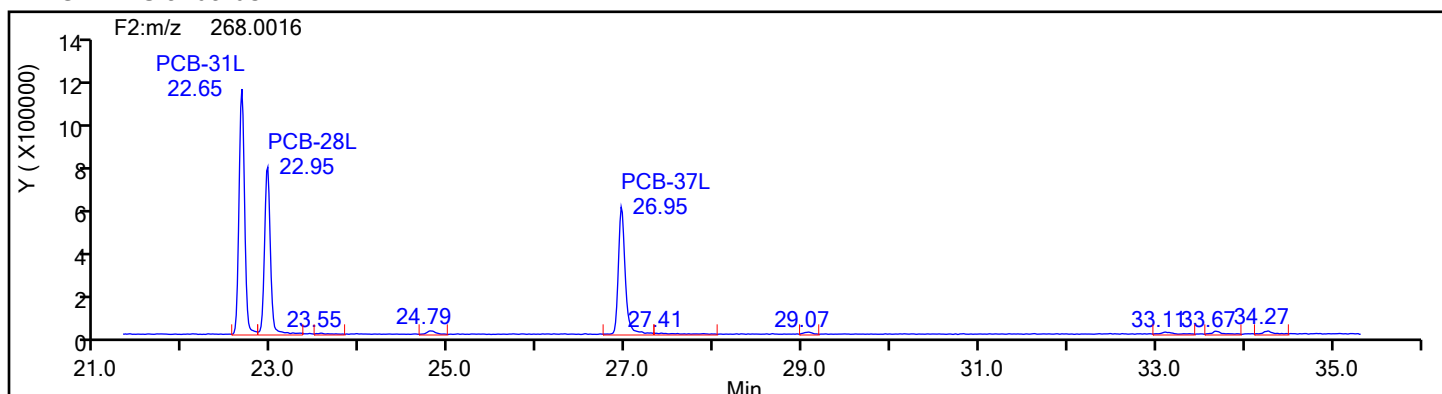


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2

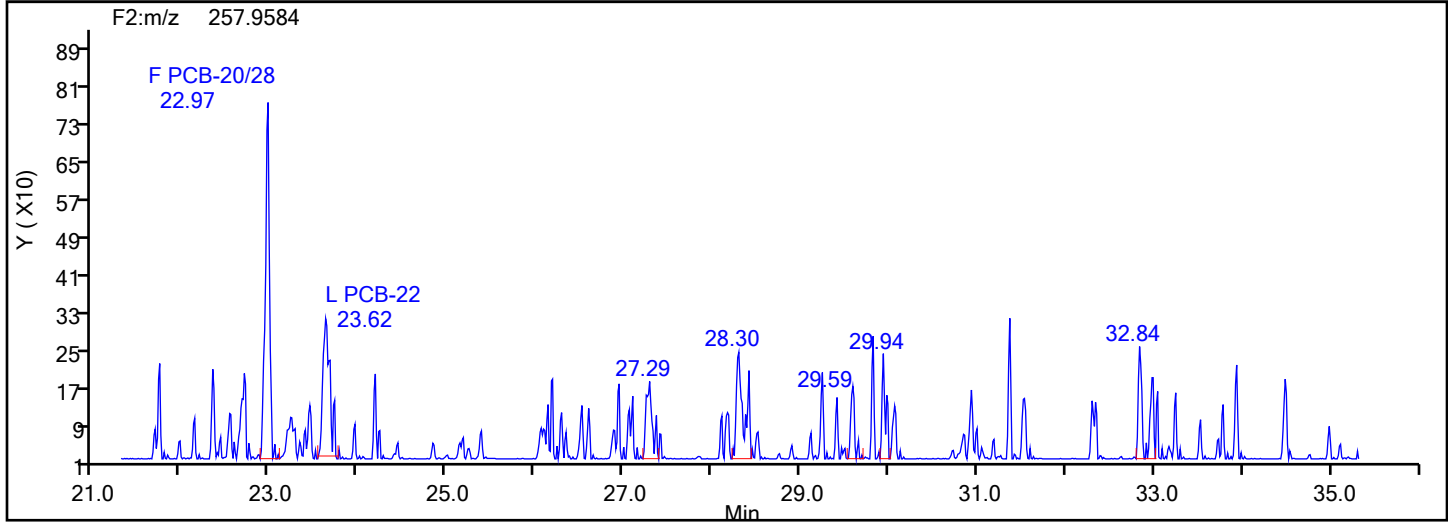
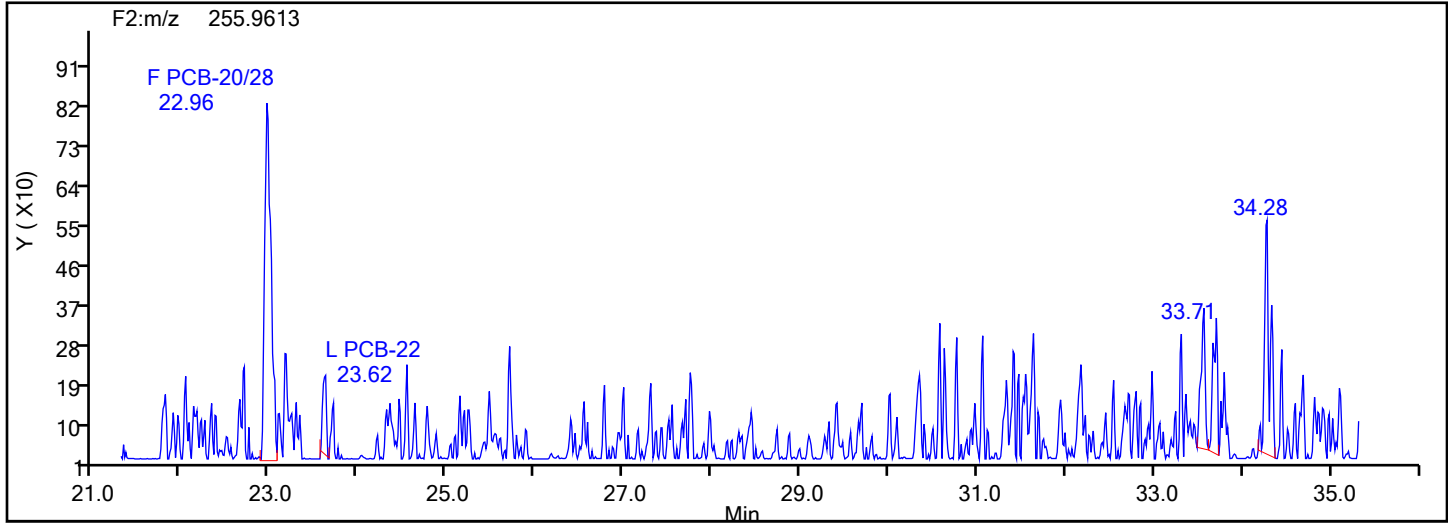


## TriPCB F2 Standards

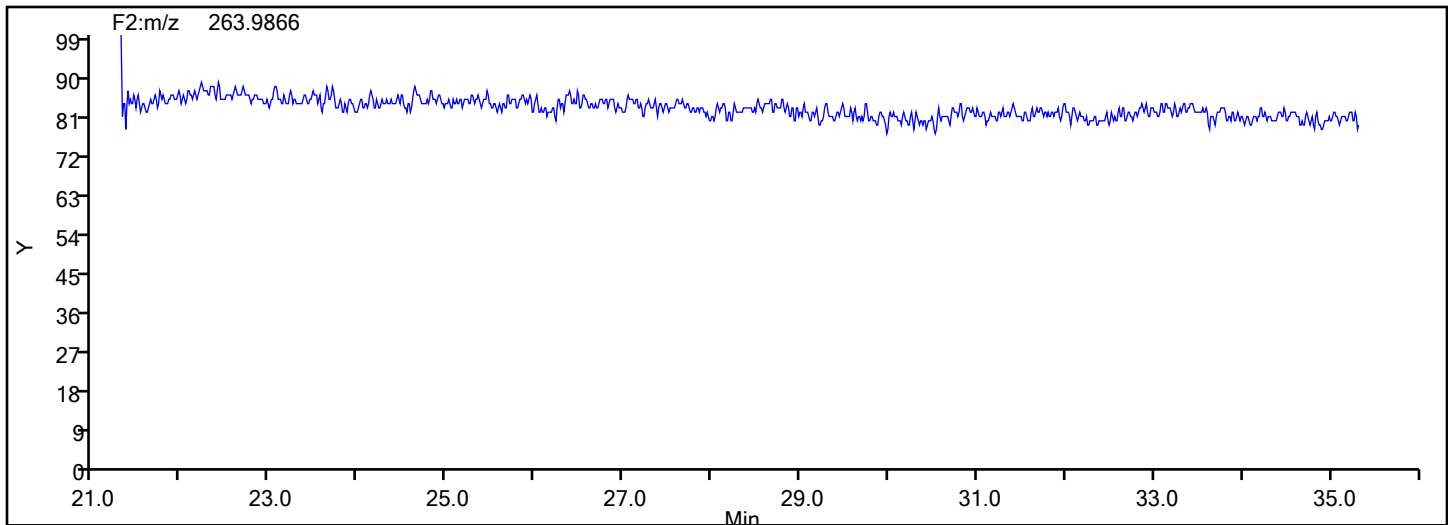


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2



## TriPCB F2 Lock Mass



## Eurofins Knoxville

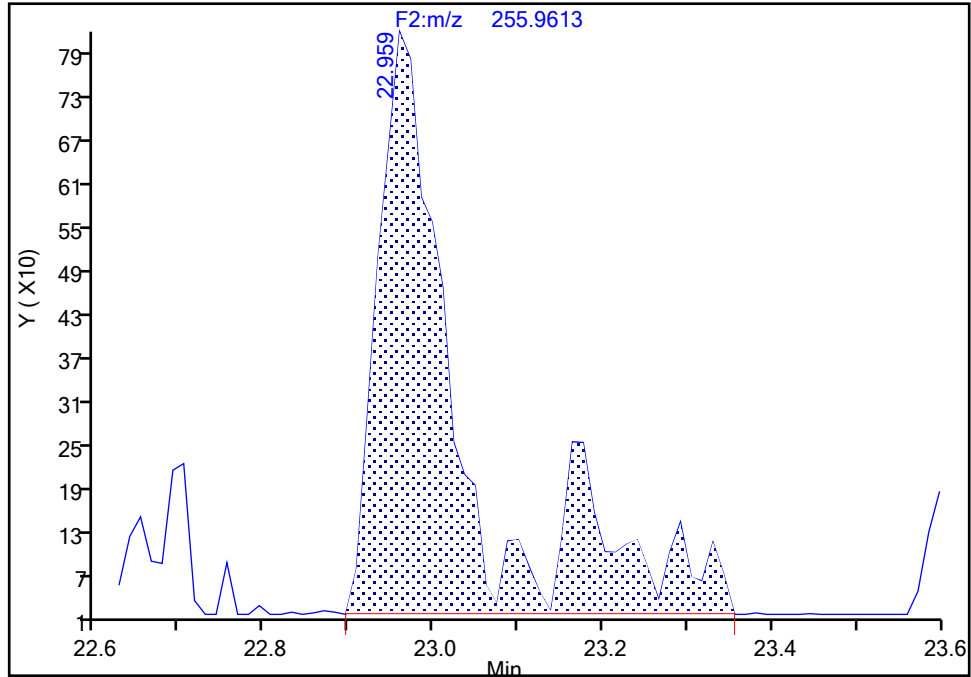
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Injection Date: 28-Jun-2024 12:47:00 Instrument ID: D2D  
Lims ID: 140-36940-A-14-C Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

PCB-20/28, CAS: STL01799

Signal: 1

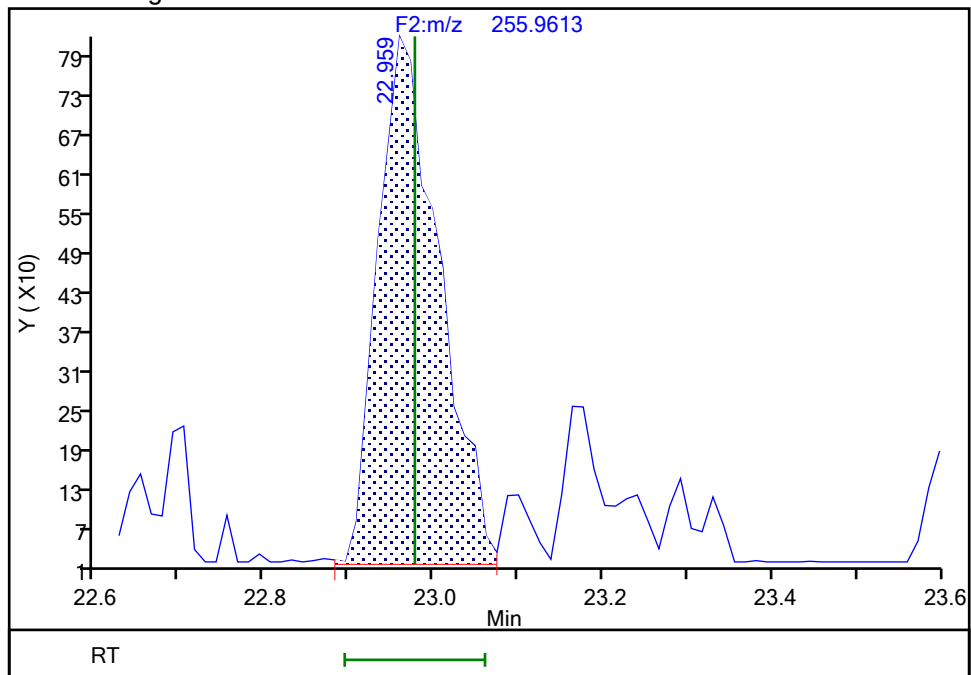
RT: 22.96  
Area: 5506  
Amount: 0.114521  
Amount Units: pg/ul

## Processing Integration Results



RT: 22.96  
Area: 4043  
Amount: 0.093687  
Amount Units: pg/ul

## Manual Integration Results



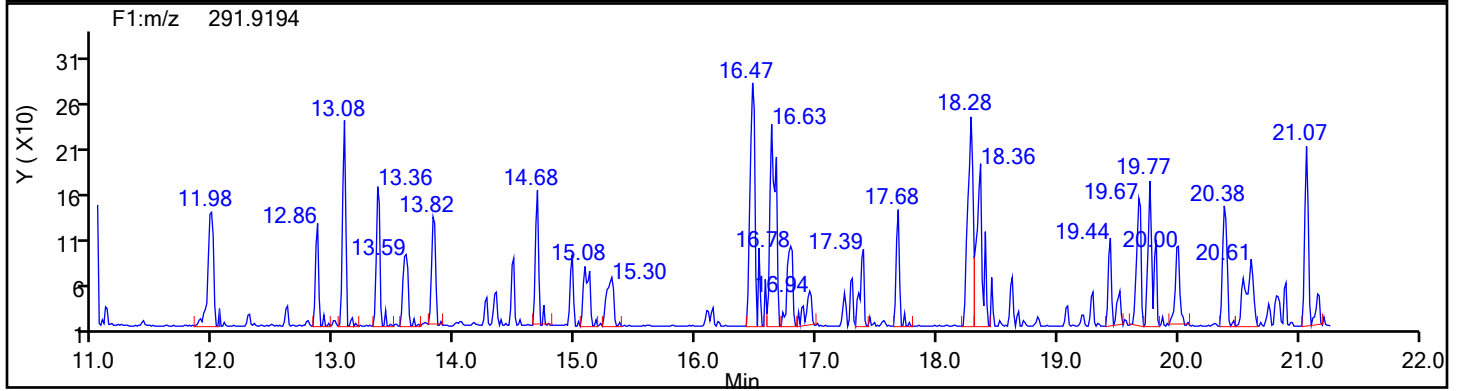
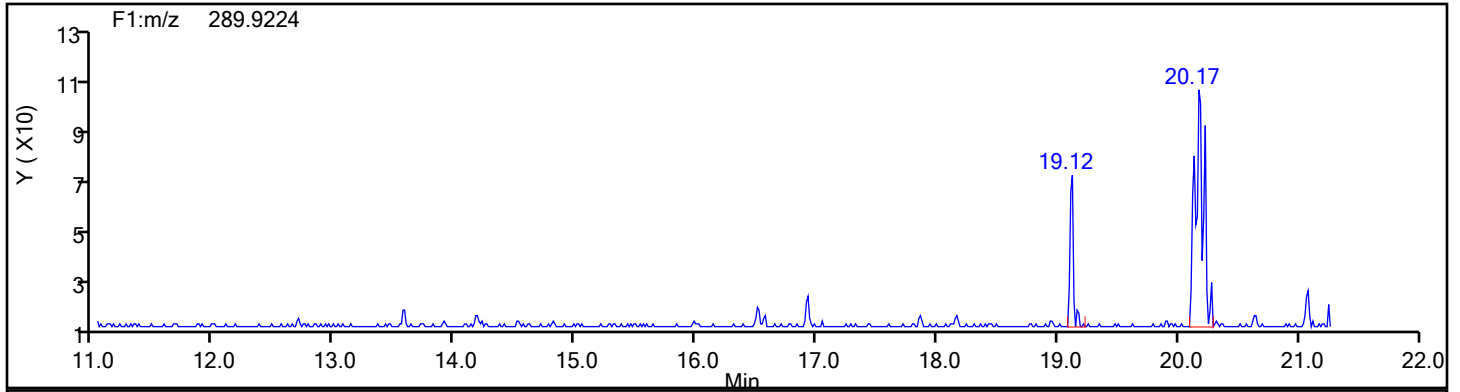
Reviewer: P0IK, 28-Jun-2024 14:16:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

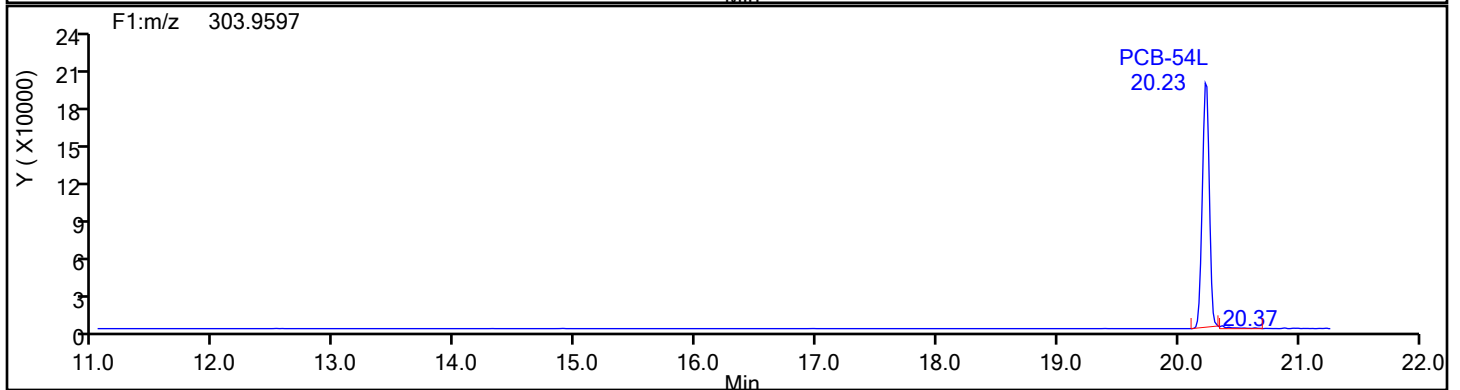
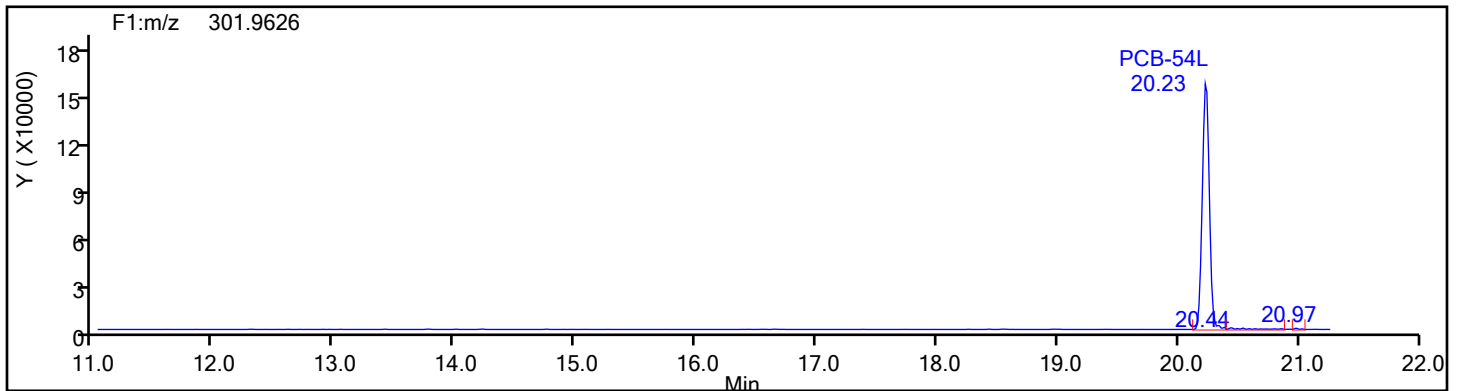
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1

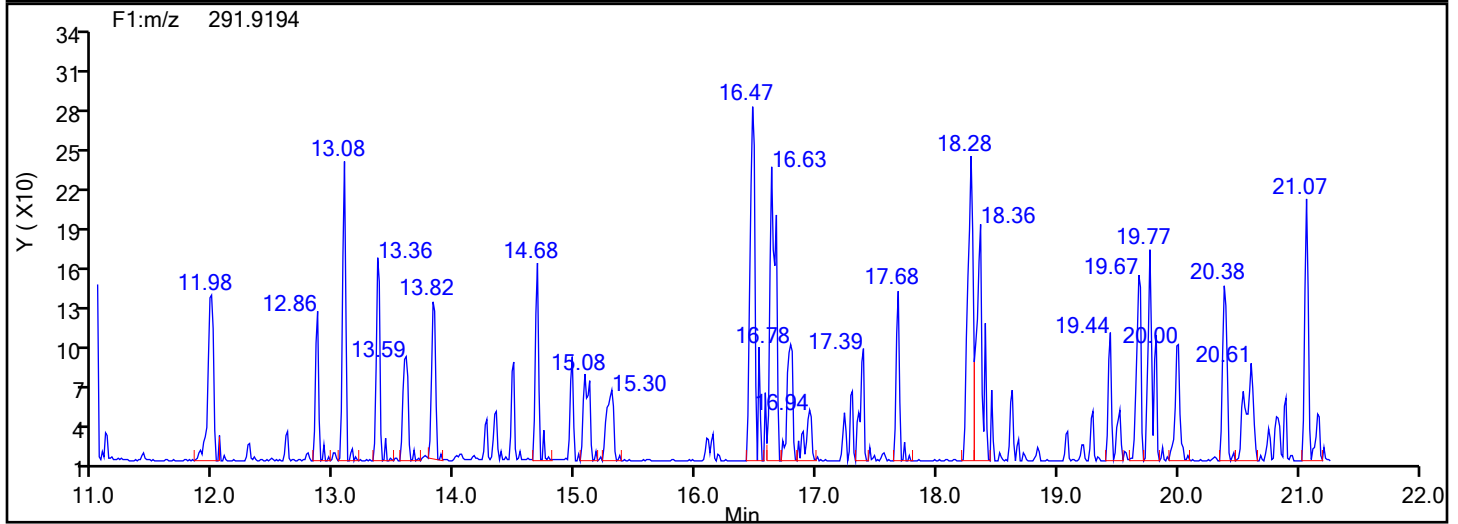
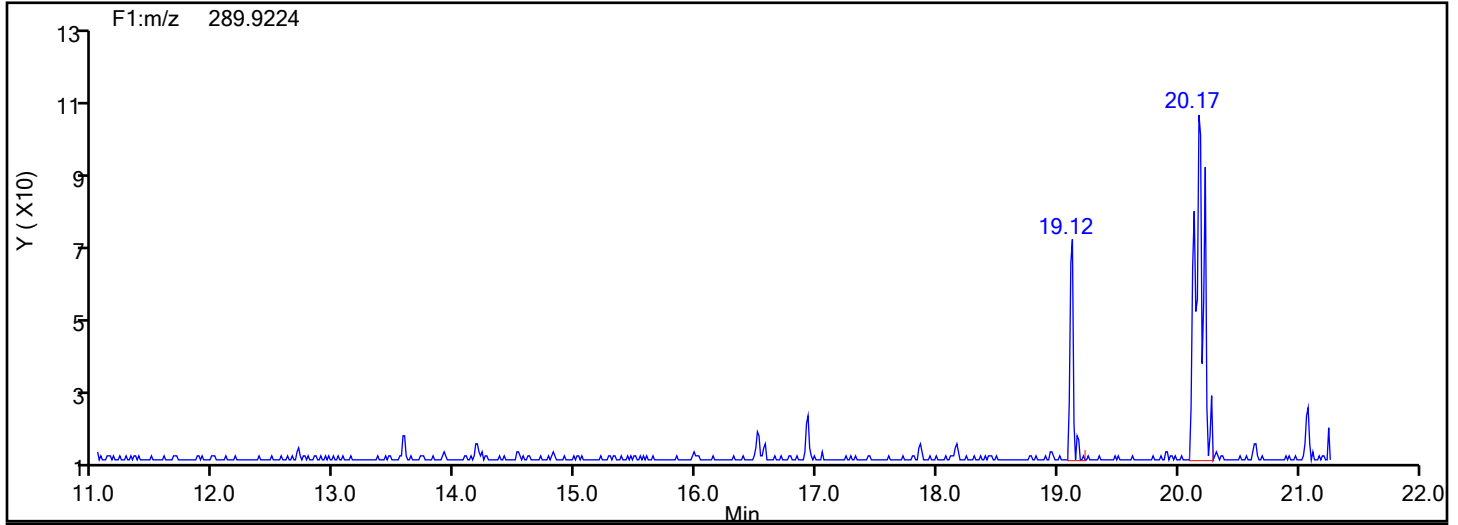


## TePCB F1 Standards

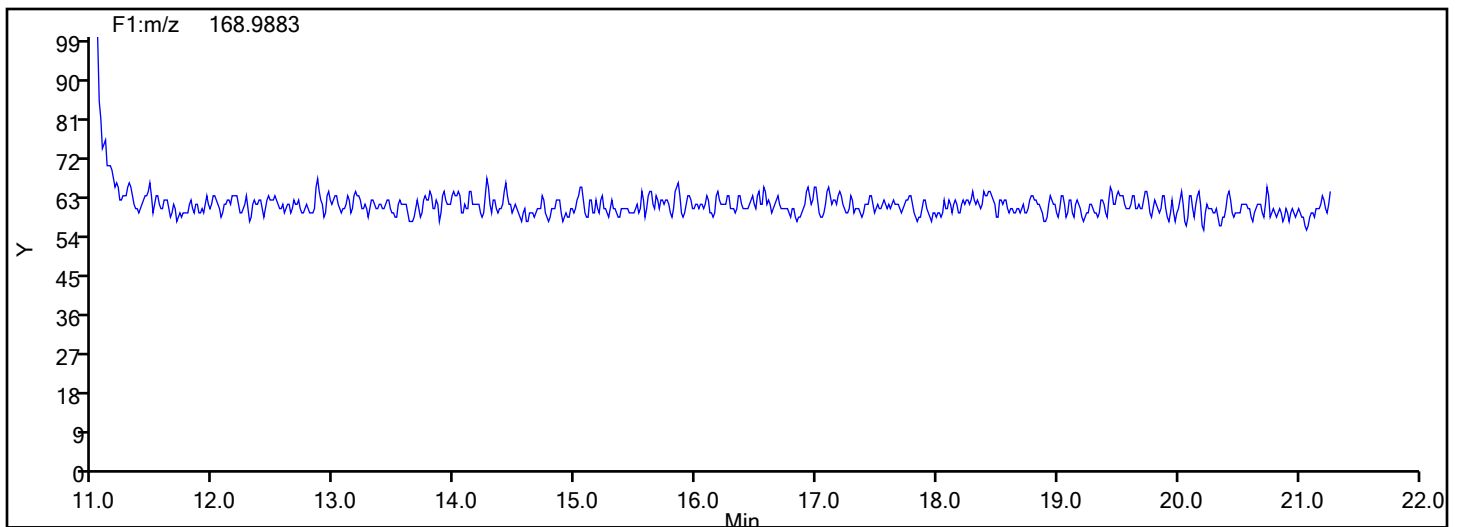


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1



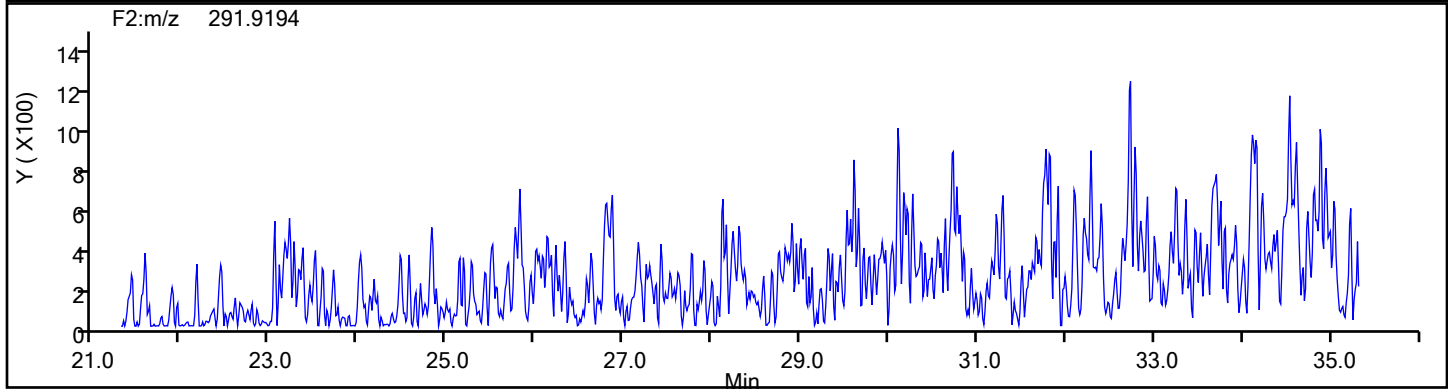
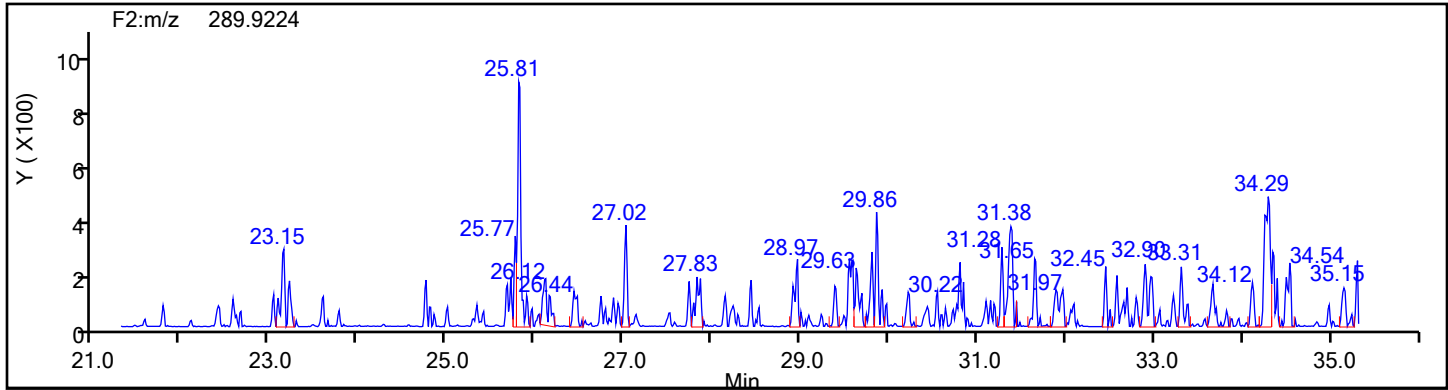
## TePCB F1 Lock Mass



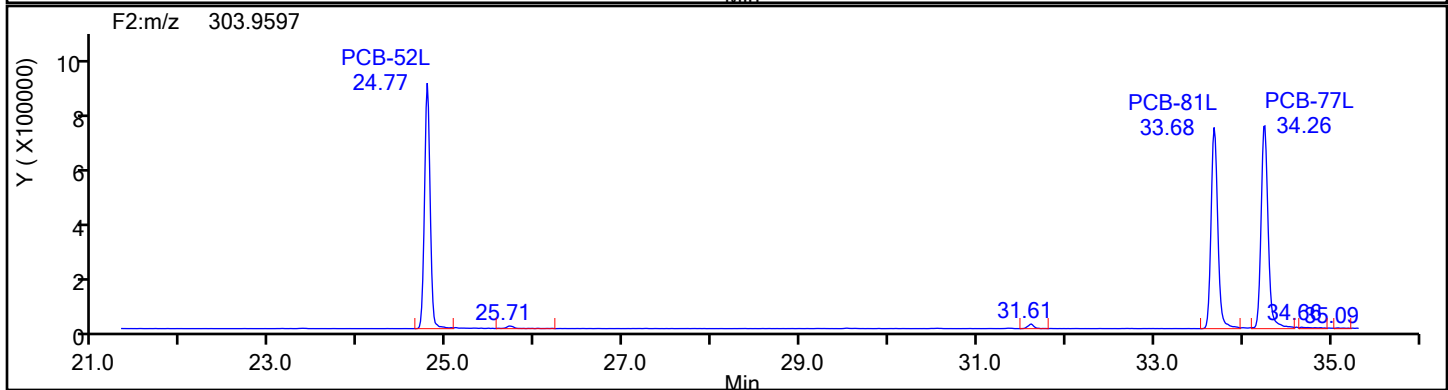
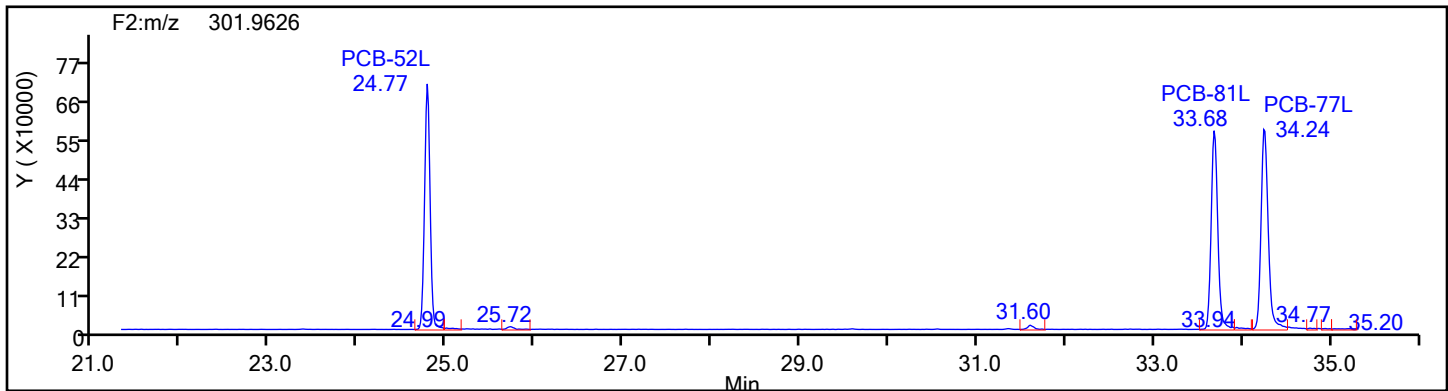


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

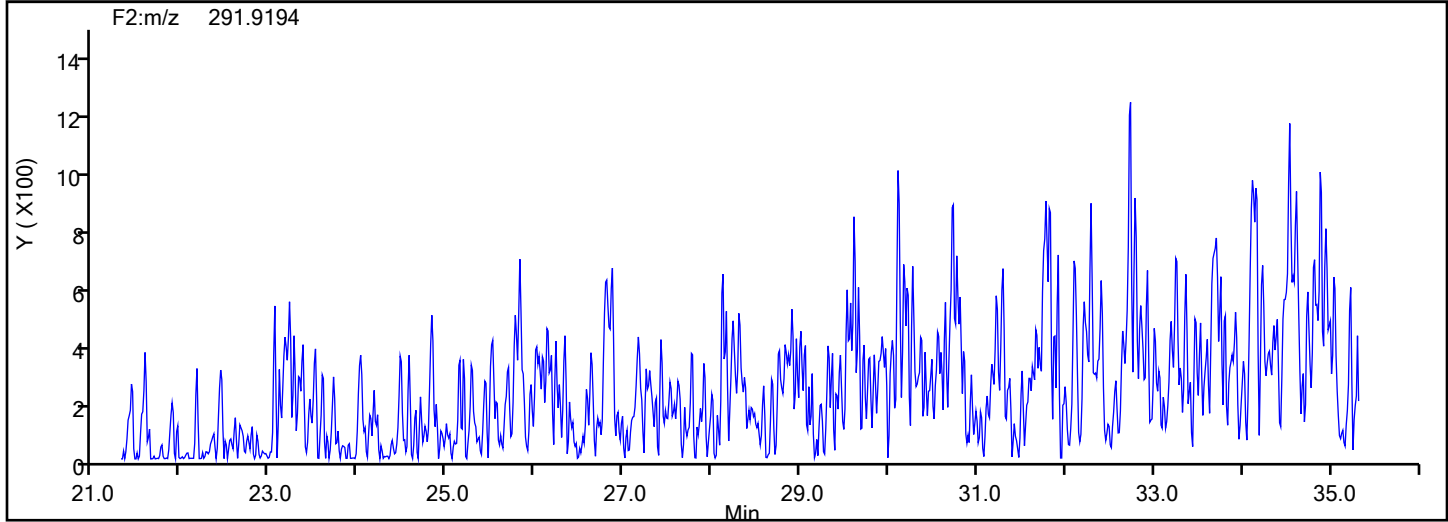
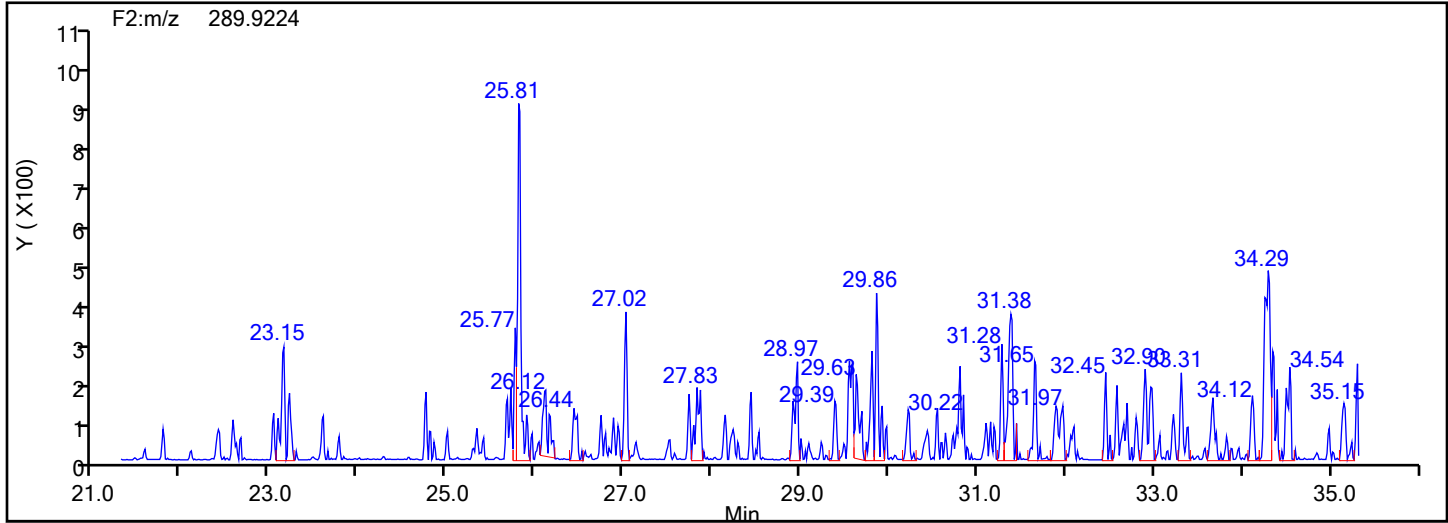


## TePCB F2 Standards

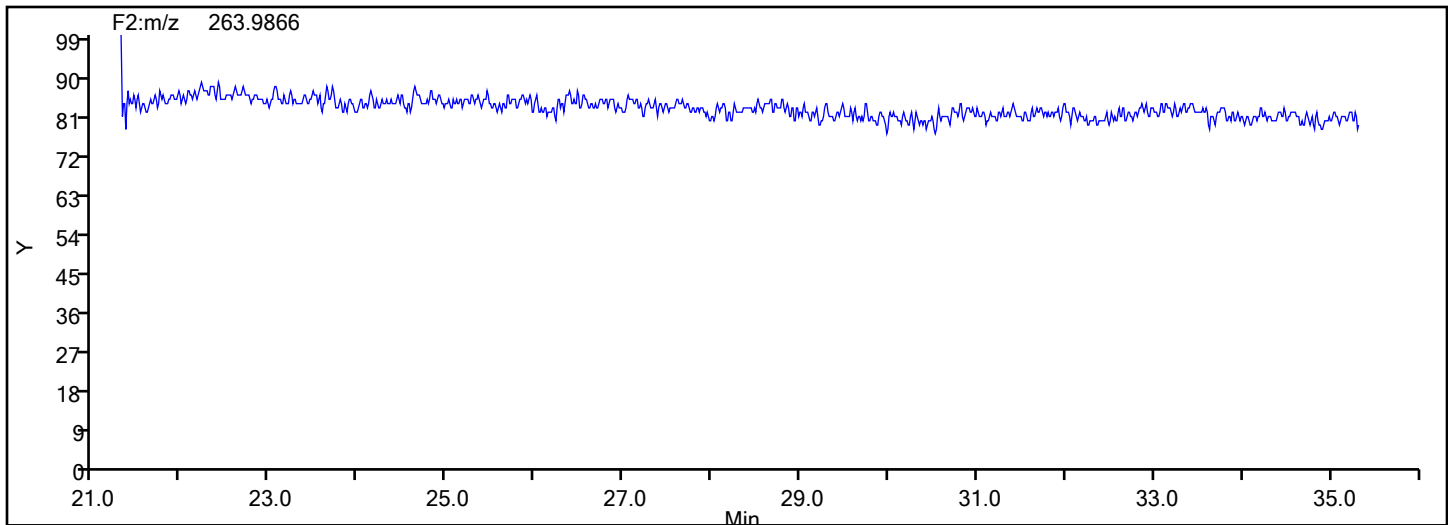


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F2

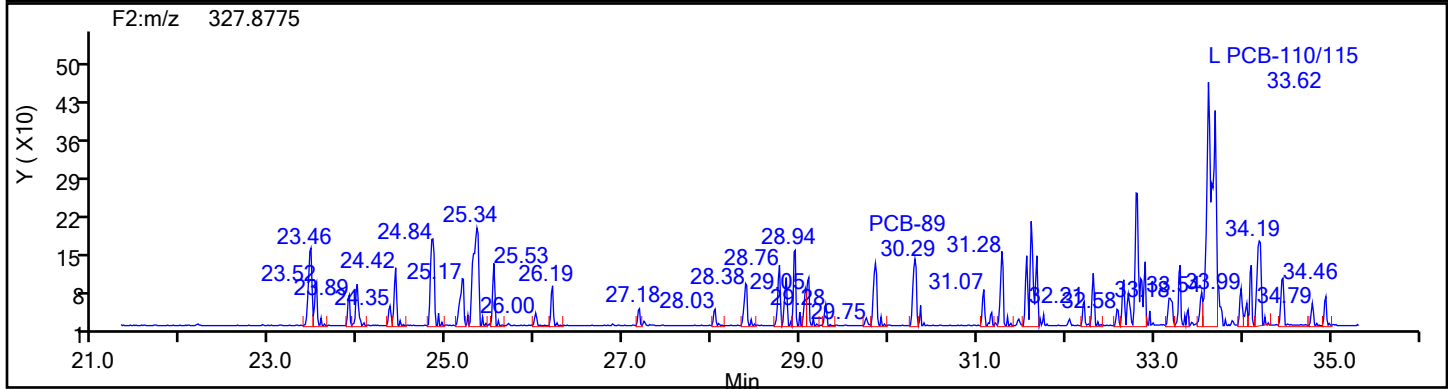
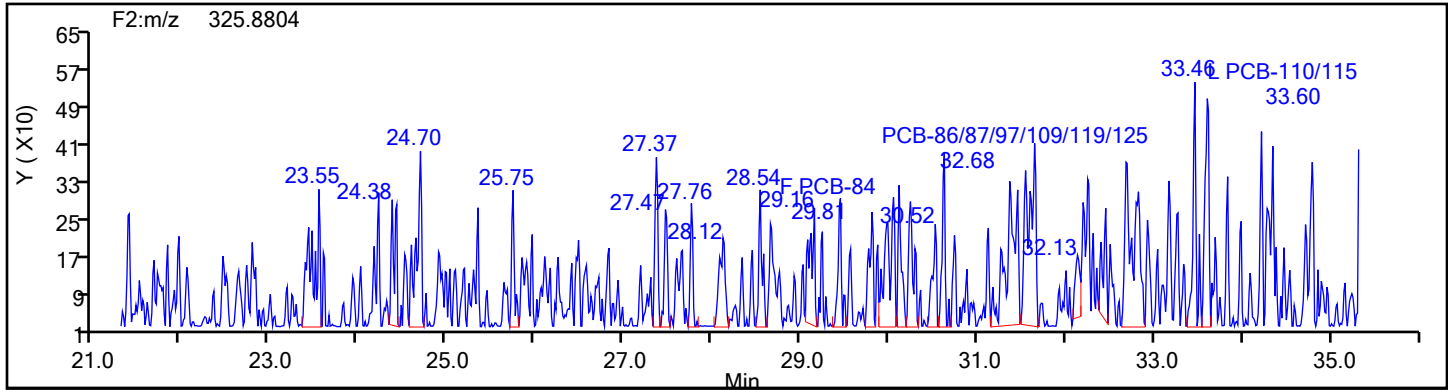


## TePCB F2 Lock Mass

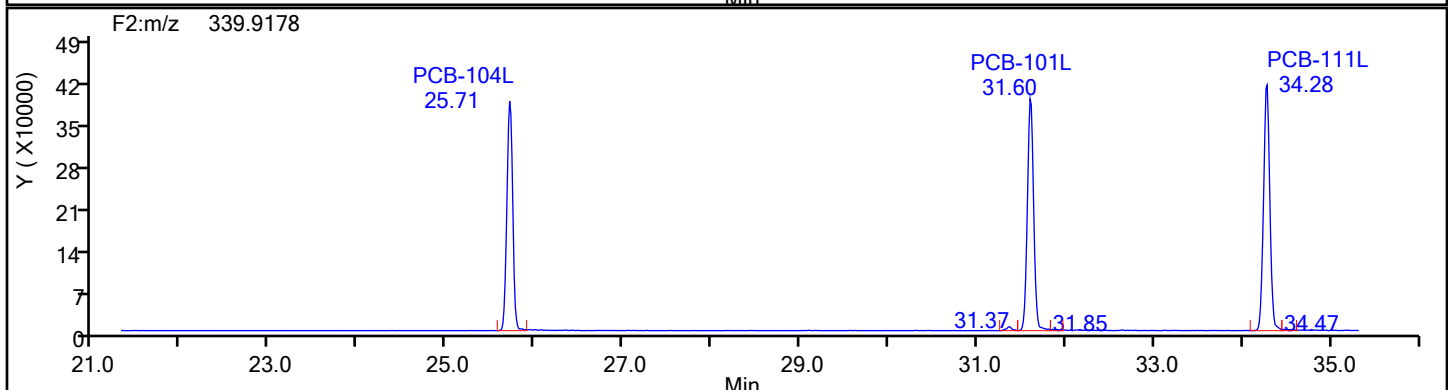
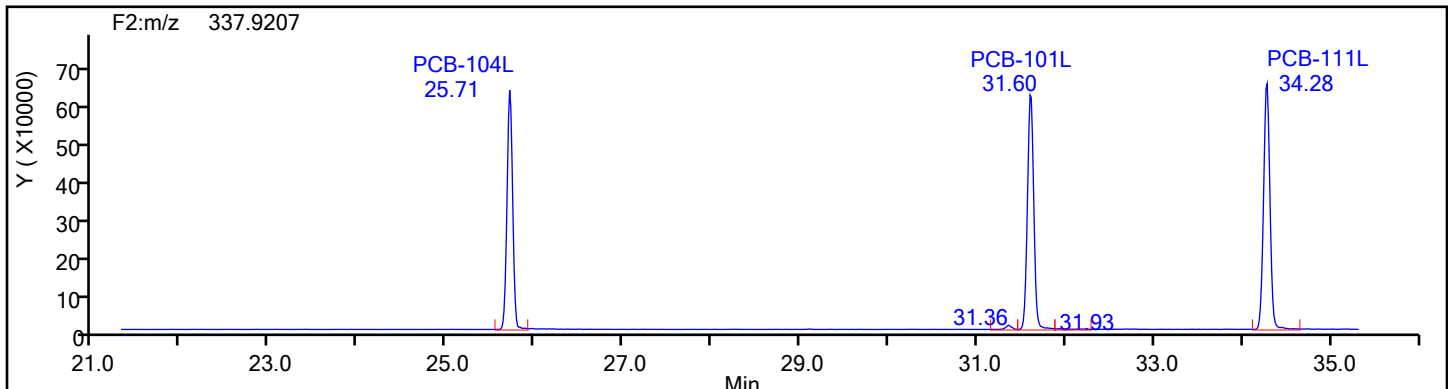


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2

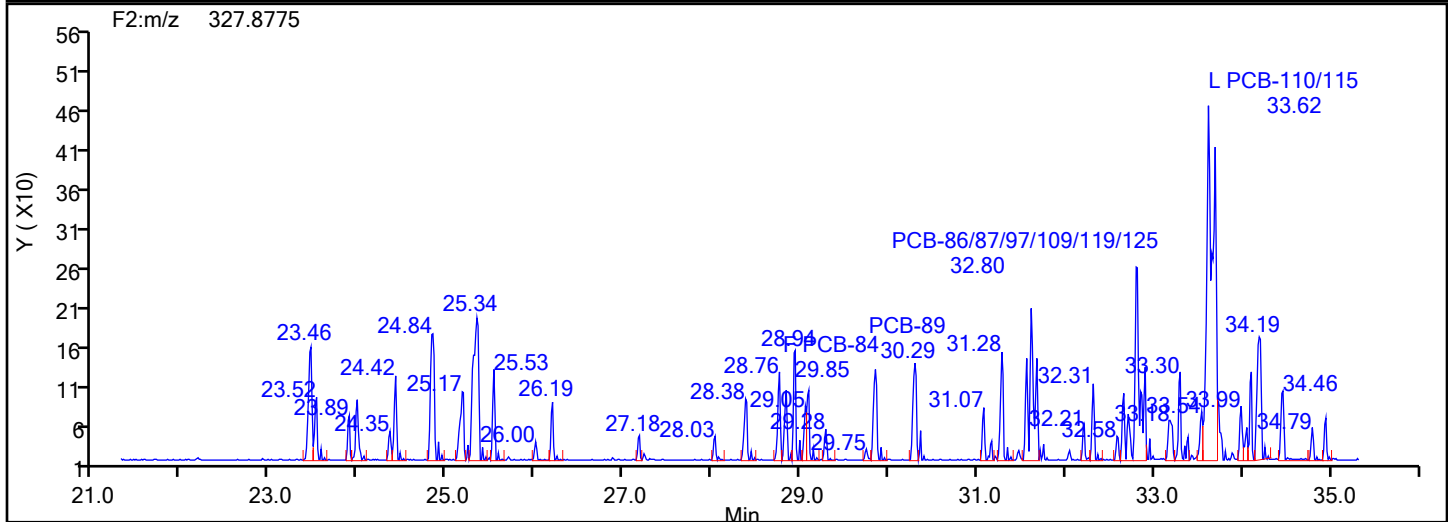
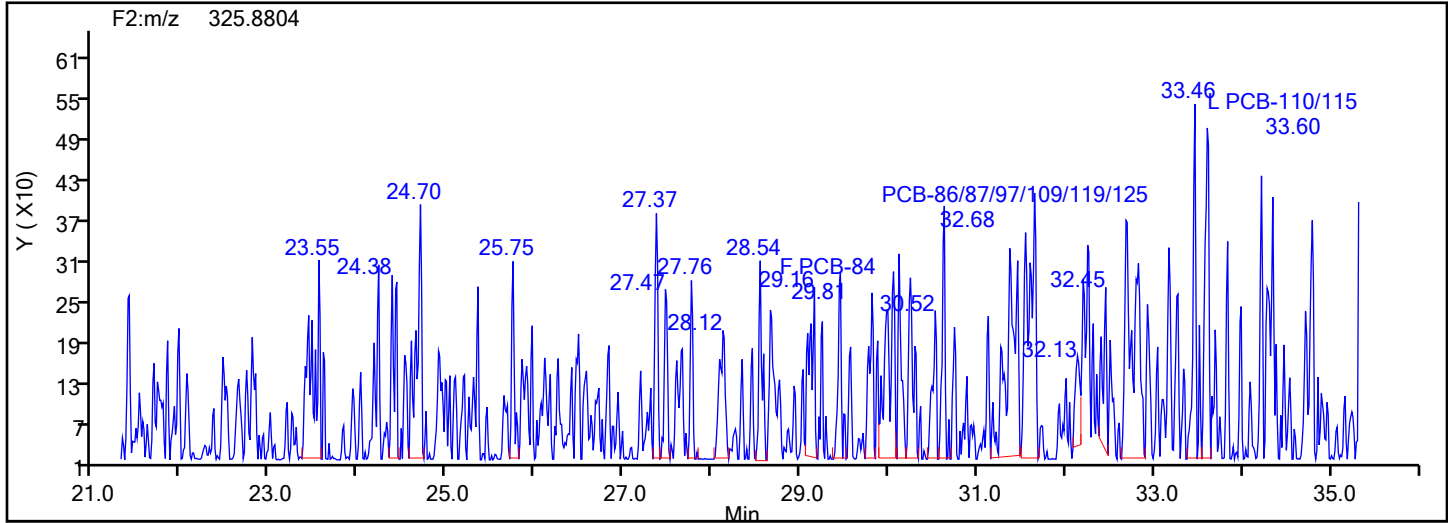


## PePCB F2 Standards

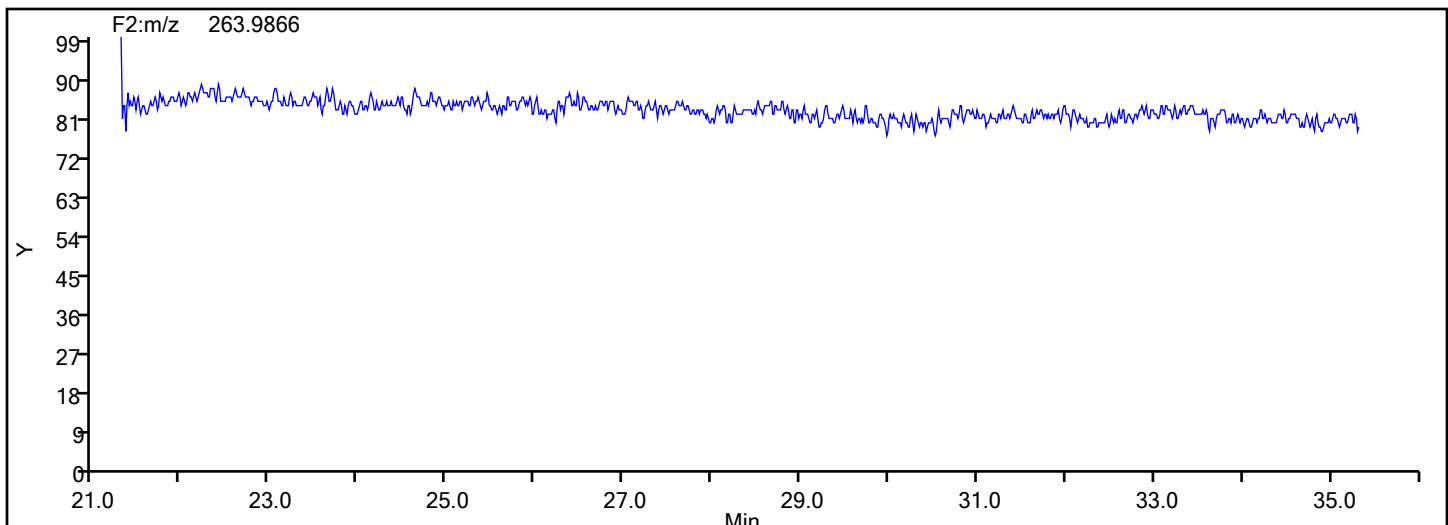


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

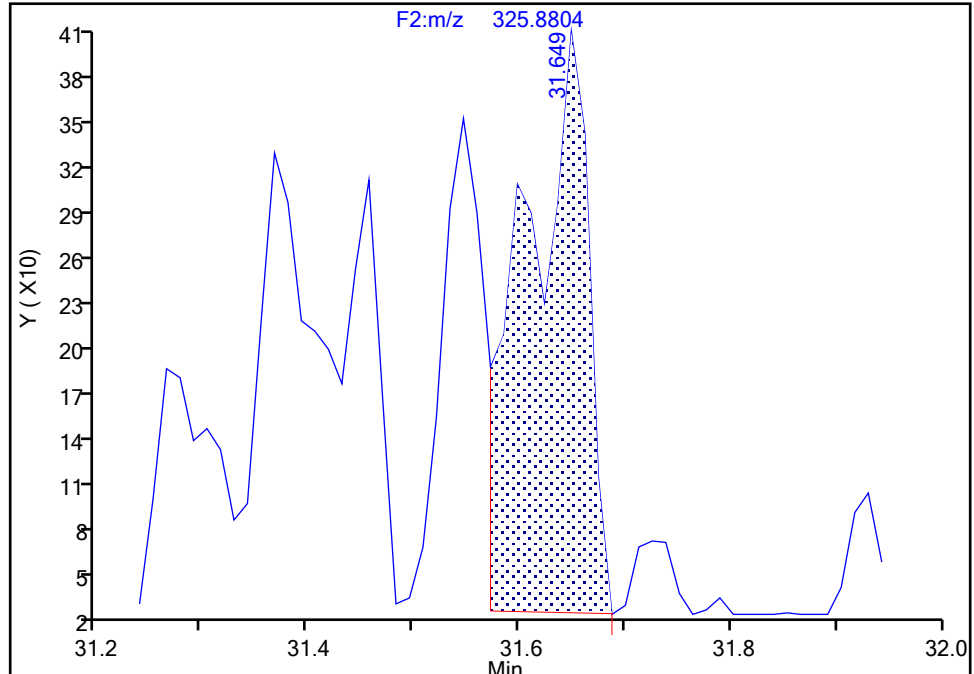
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Injection Date: 28-Jun-2024 12:47:00 Instrument ID: D2D  
Lims ID: 140-36940-A-14-C Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

**PCB-90/101/113, CAS: STL01813**

Signal: 1

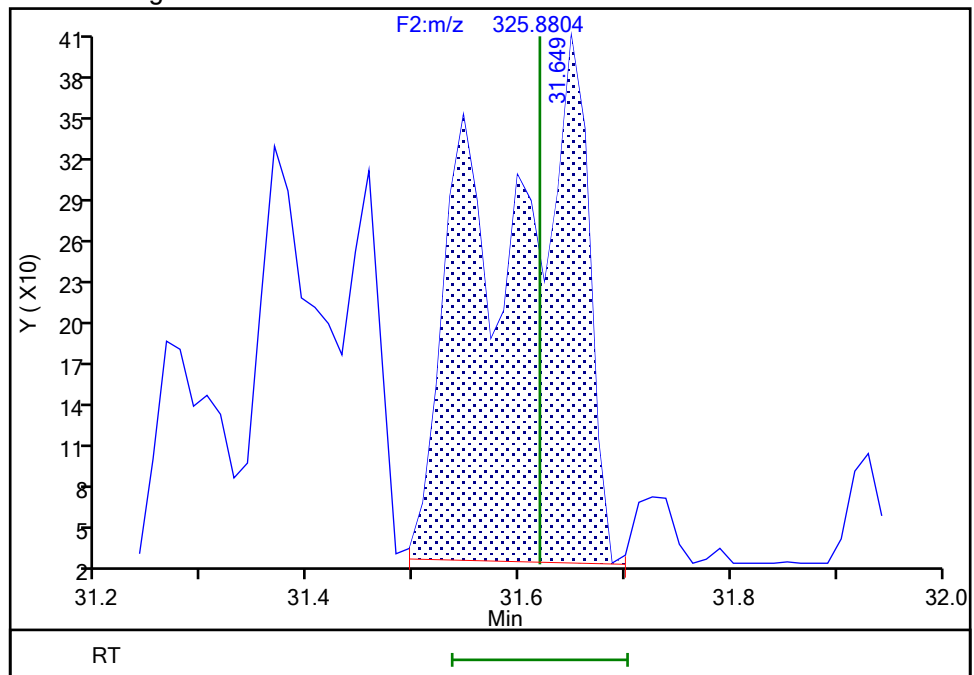
RT: 31.65  
Area: 1606  
Amount: 0.042018  
Amount Units: pg/ul

## Processing Integration Results



RT: 31.65  
Area: 2467  
Amount: 0.075601  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 14:17:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

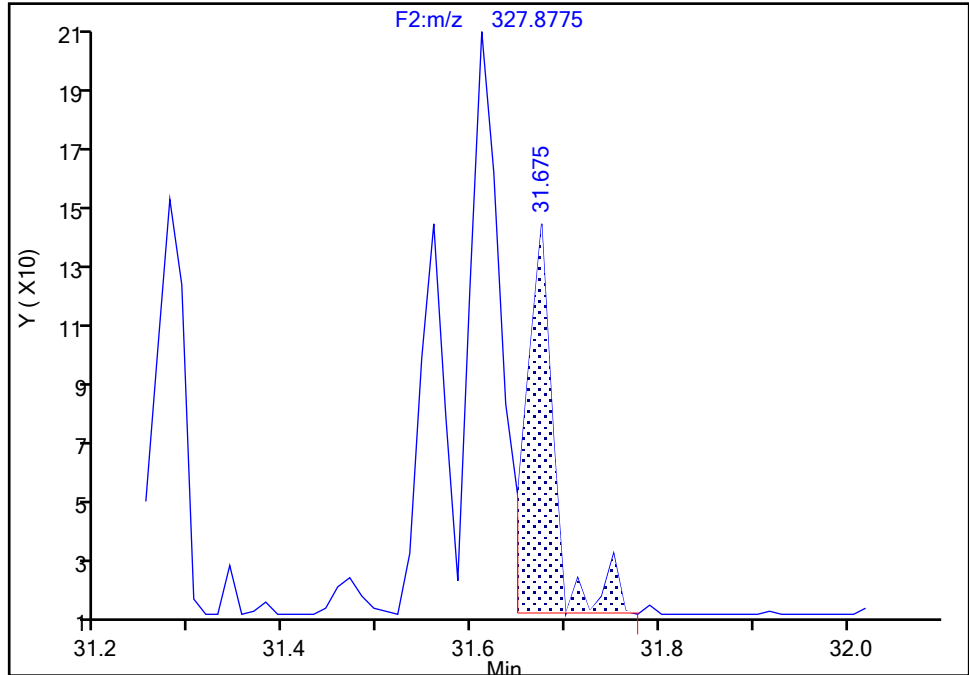
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Lims ID: 140-36940-A-14-C Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

**PCB-90/101/113, CAS: STL01813**

Signal: 2

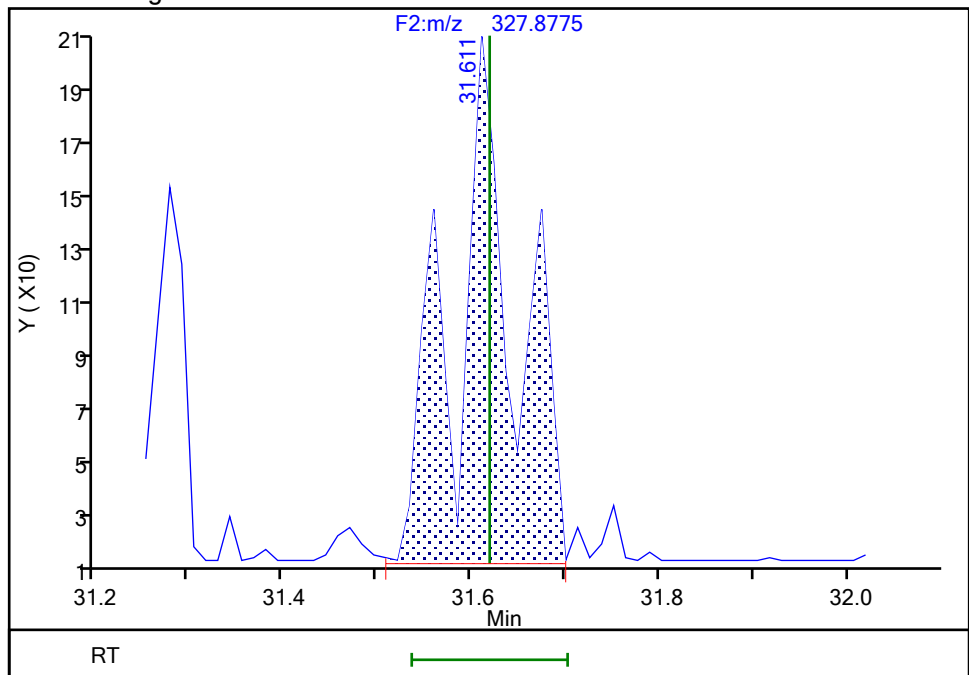
RT: 31.67  
Area: 252  
Amount: 0.042018  
Amount Units: pg/ul

## Processing Integration Results



RT: 31.61  
Area: 876  
Amount: 0.075601  
Amount Units: pg/ul

## Manual Integration Results



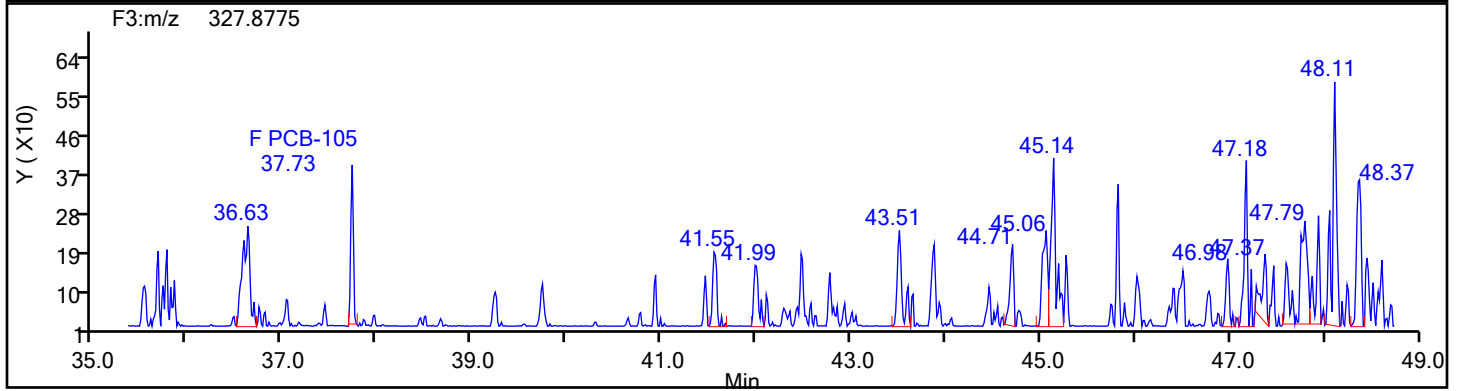
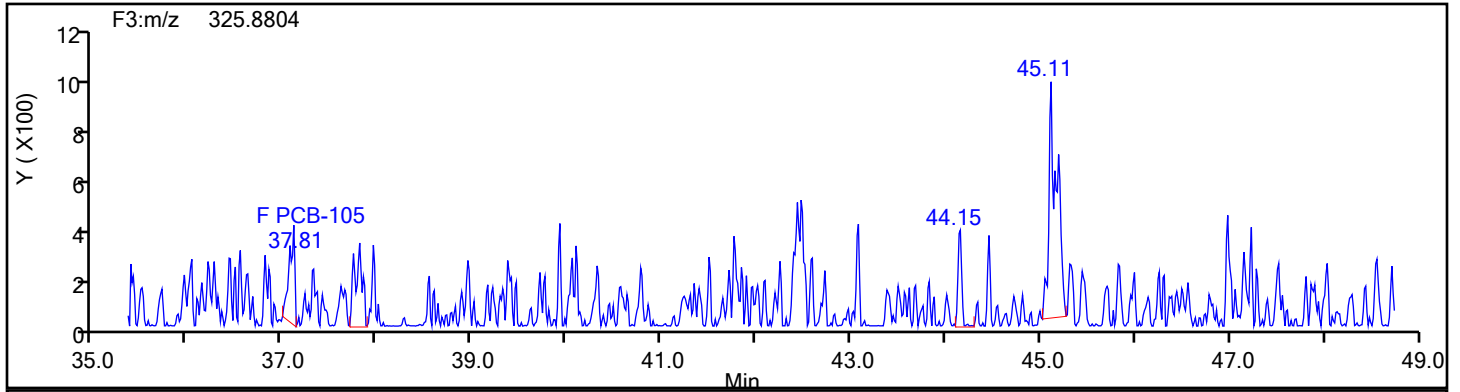
Reviewer: P0IK, 28-Jun-2024 14:17:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

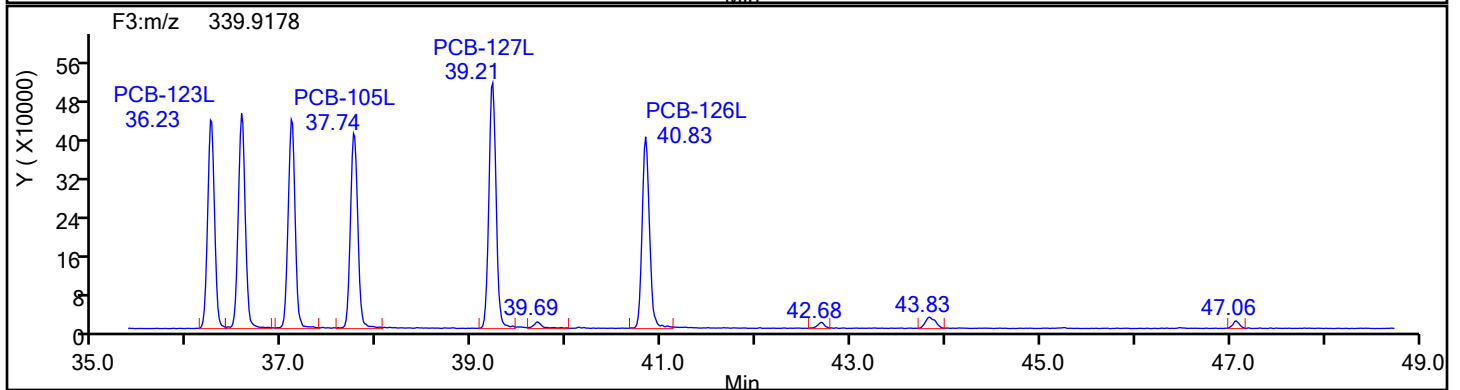
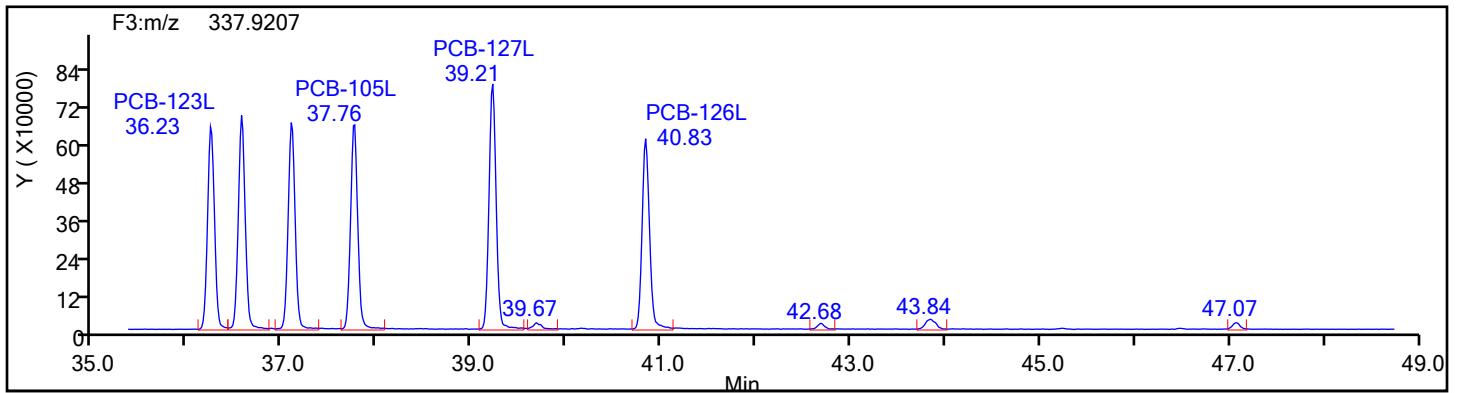
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3

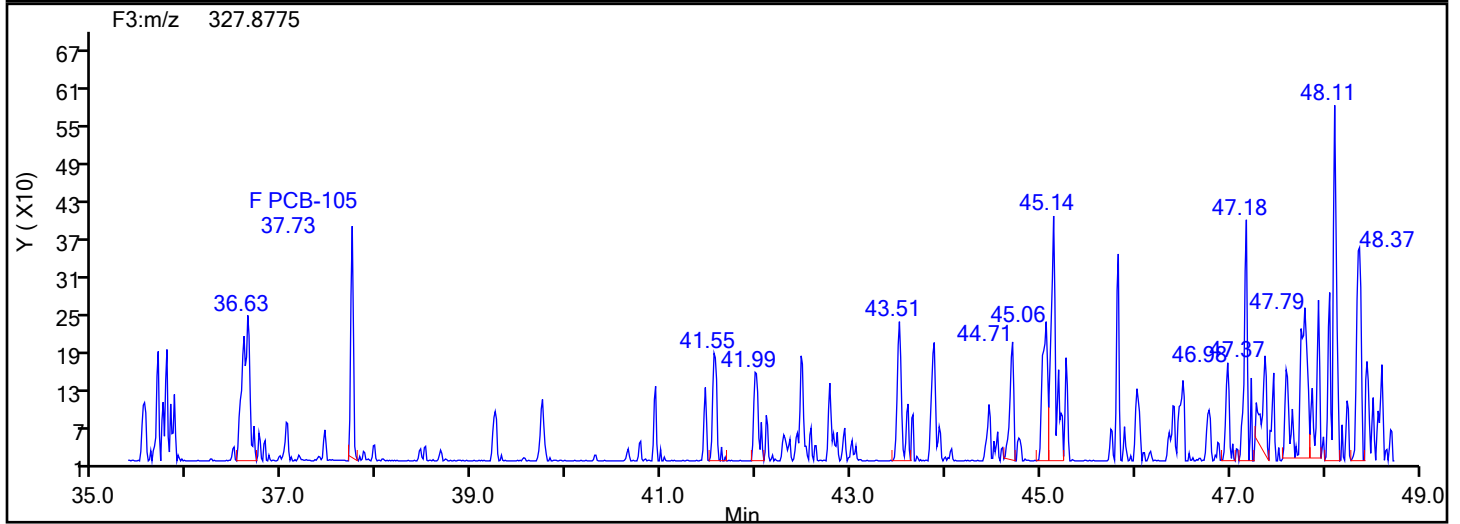
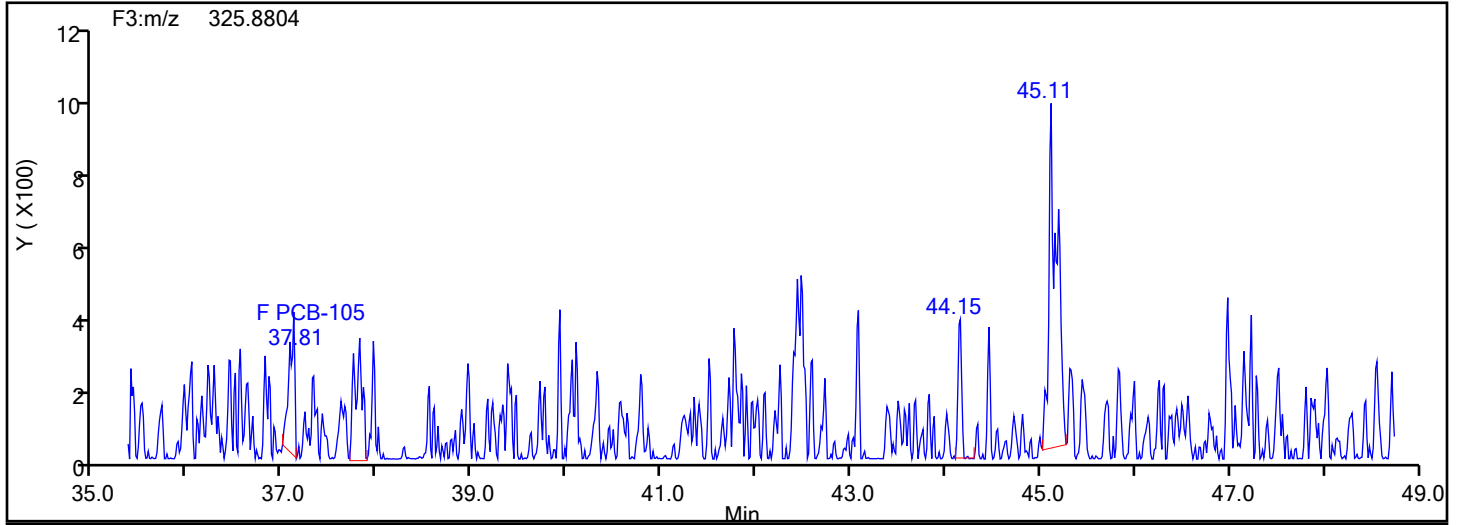


## PePCB F3 Standards

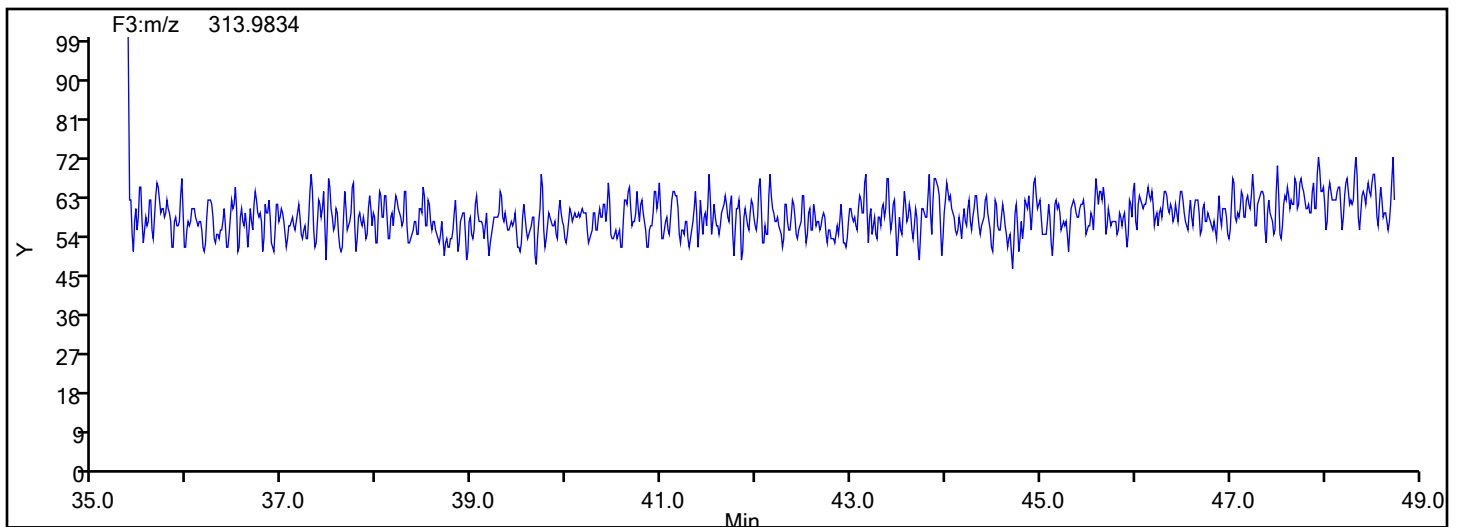


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3



## PePCB F3 Lock Mass





## Eurofins Knoxville

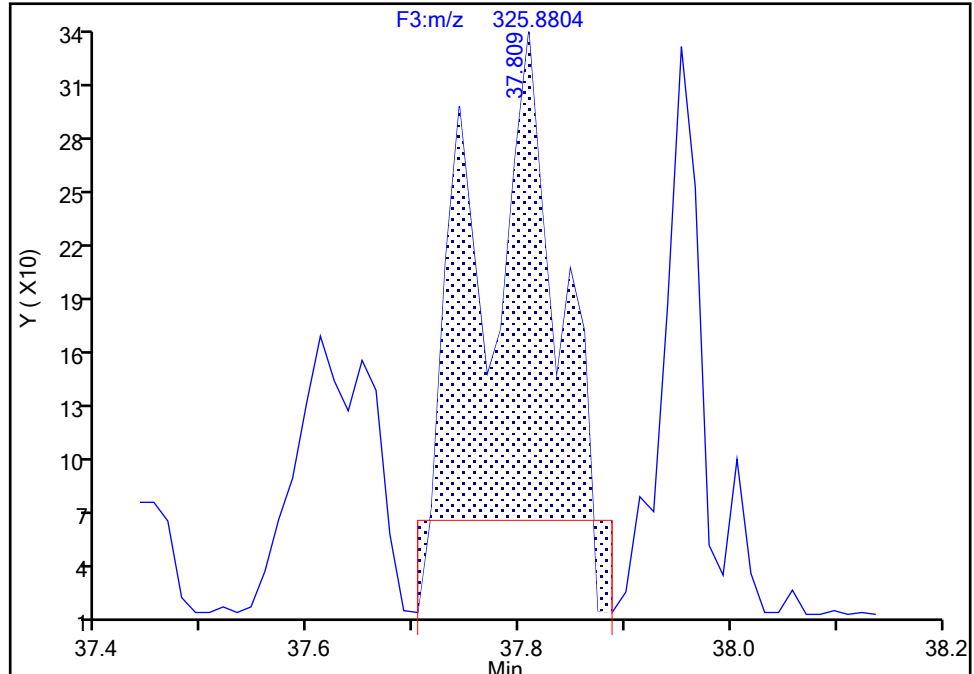
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Lims ID: 140-36940-A-14-C Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-105, CAS: 32598-14-4

Signal: 1

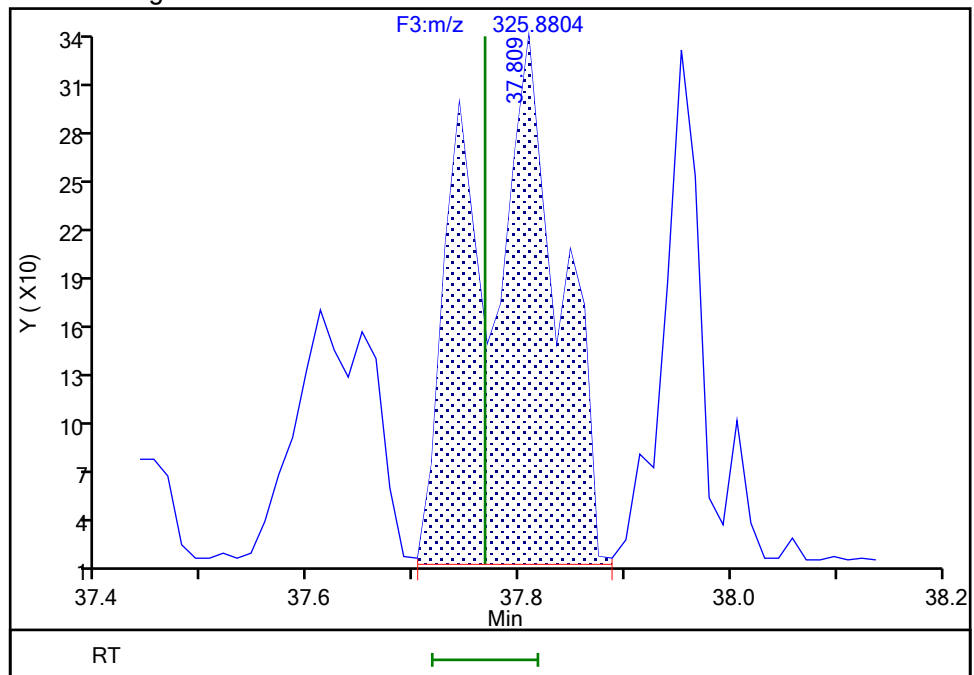
RT: 37.81  
Area: 1208  
Amount: 0.028357  
Amount Units: pg/ul

## Processing Integration Results



RT: 37.81  
Area: 1782  
Amount: 0.036852  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 14:18:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER

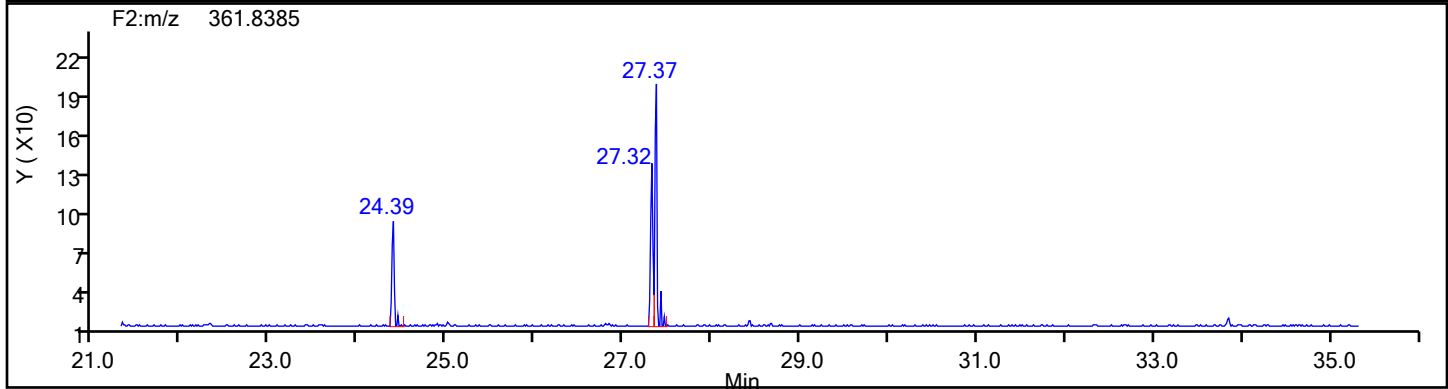
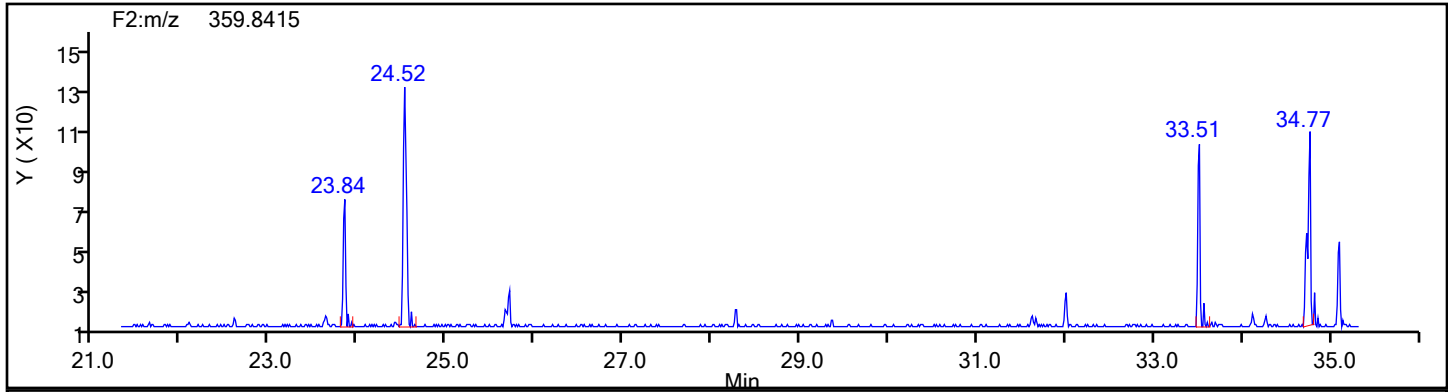
Worklist#: 88219

Sample Line#: 6

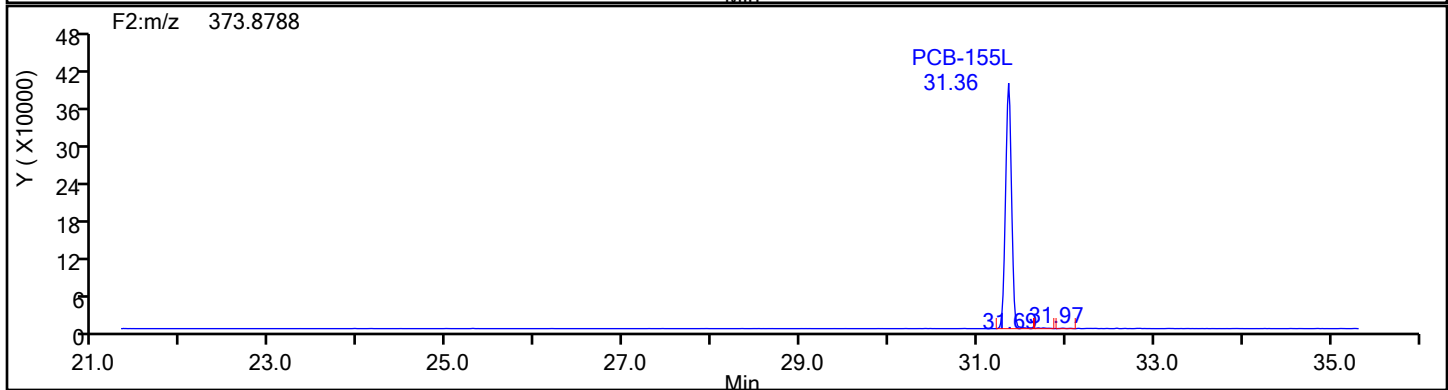
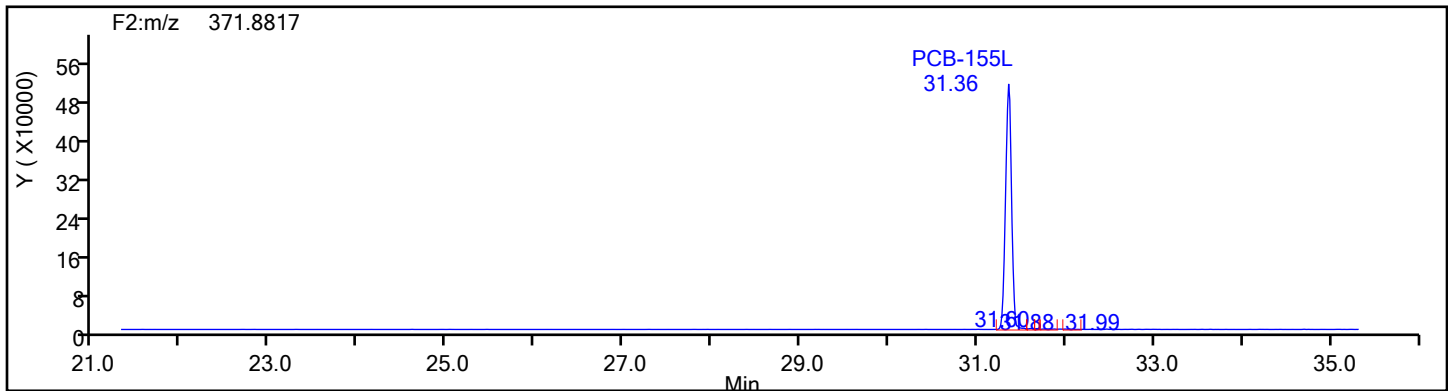
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

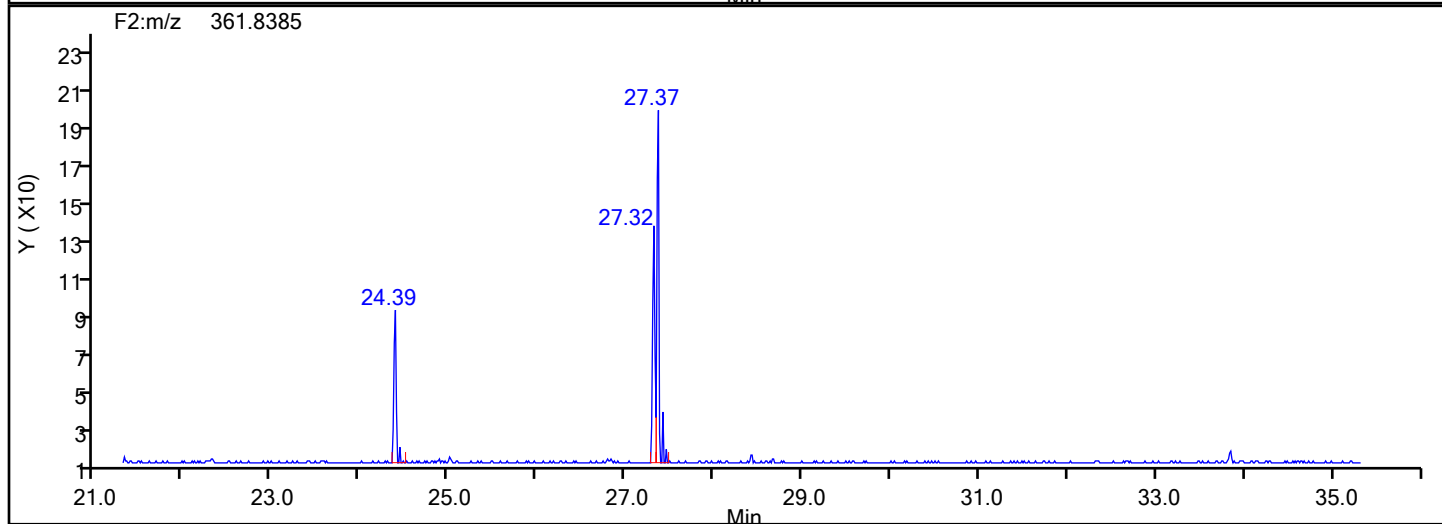
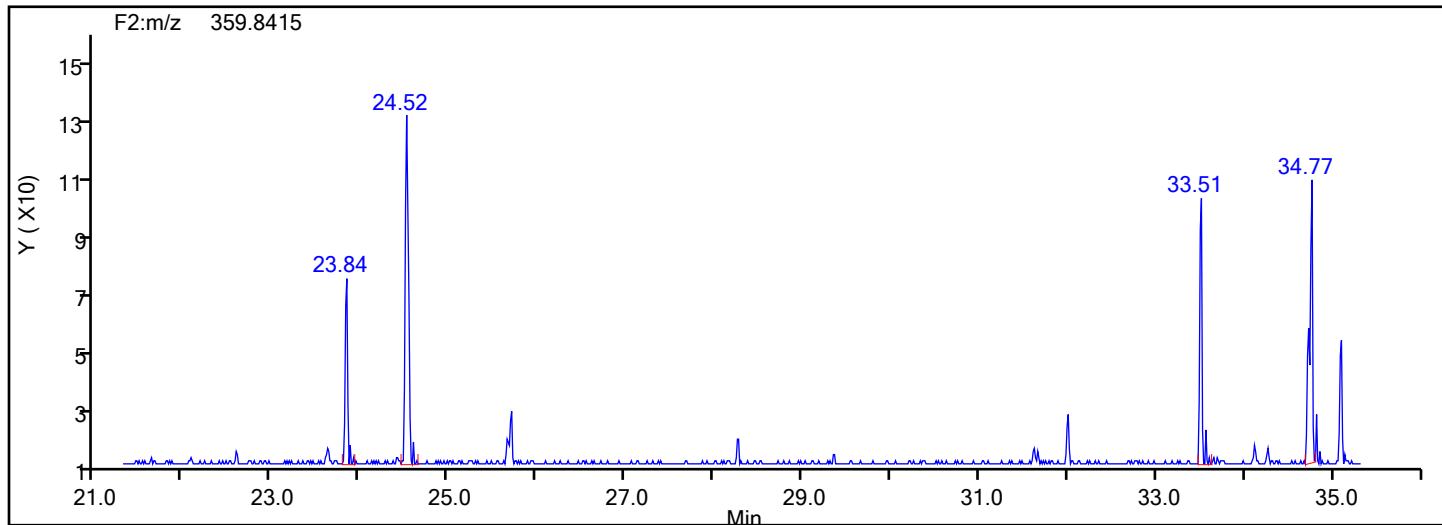


HxPCB F2 Standards

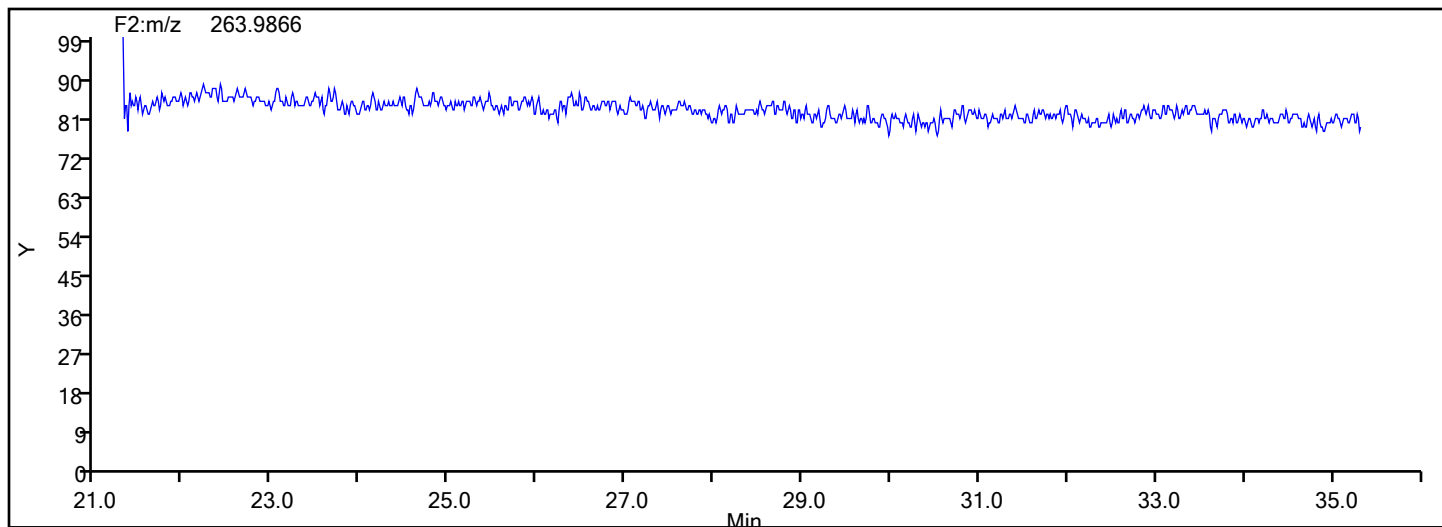


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

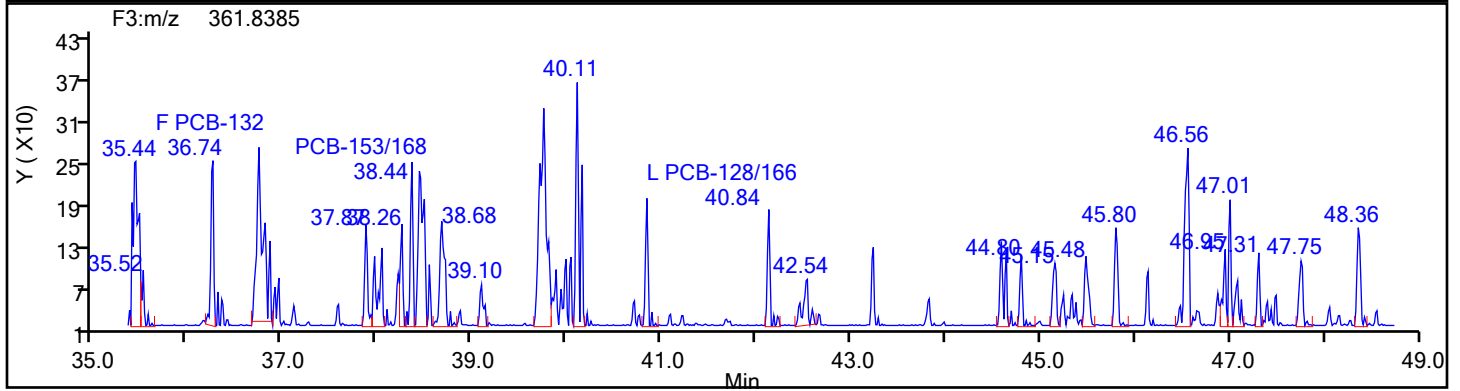
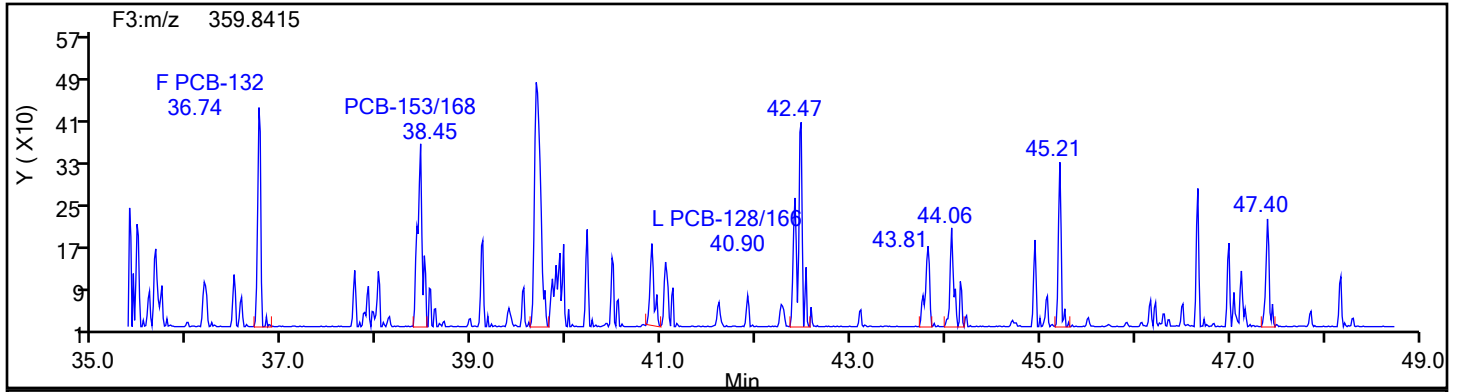


## HxPCB F2 Lock Mass

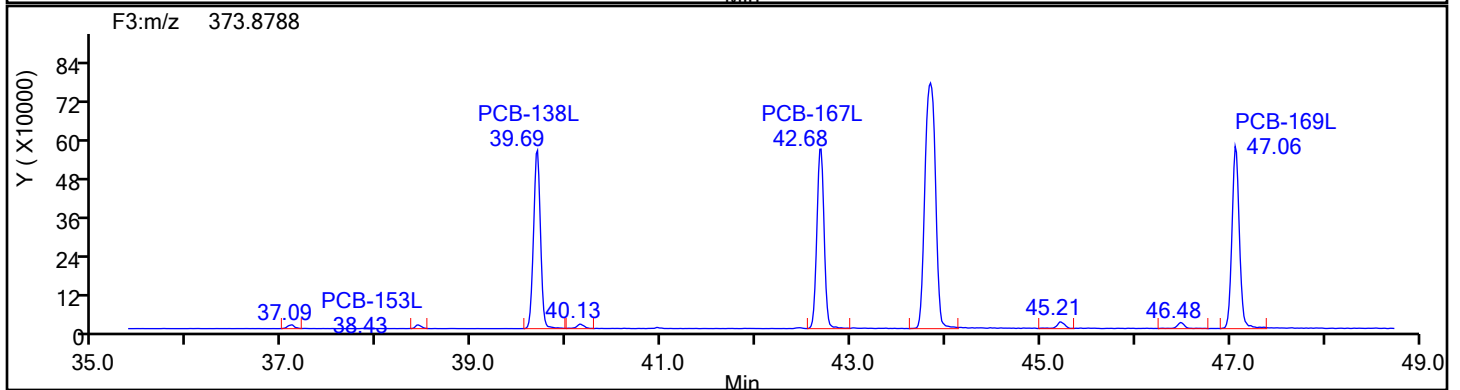
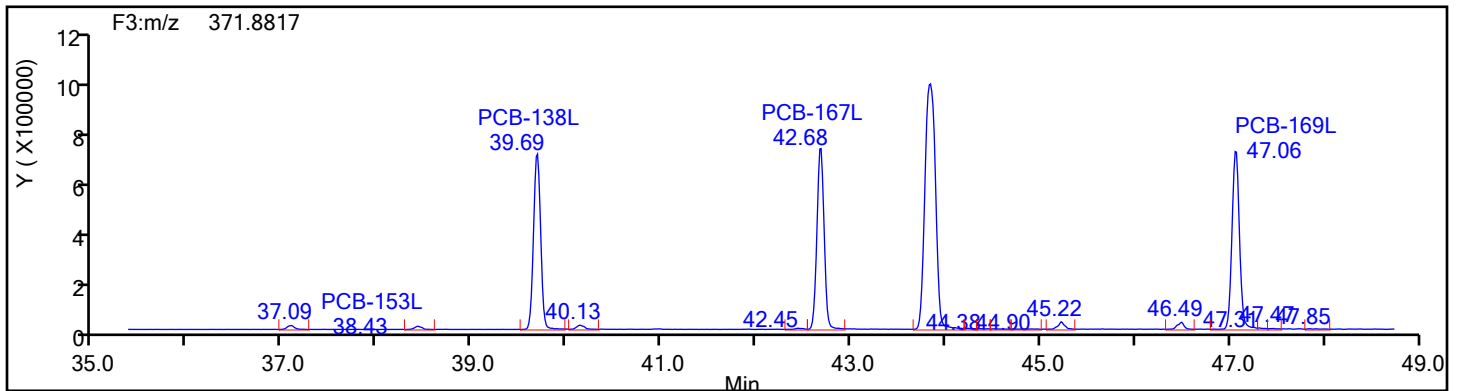


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3

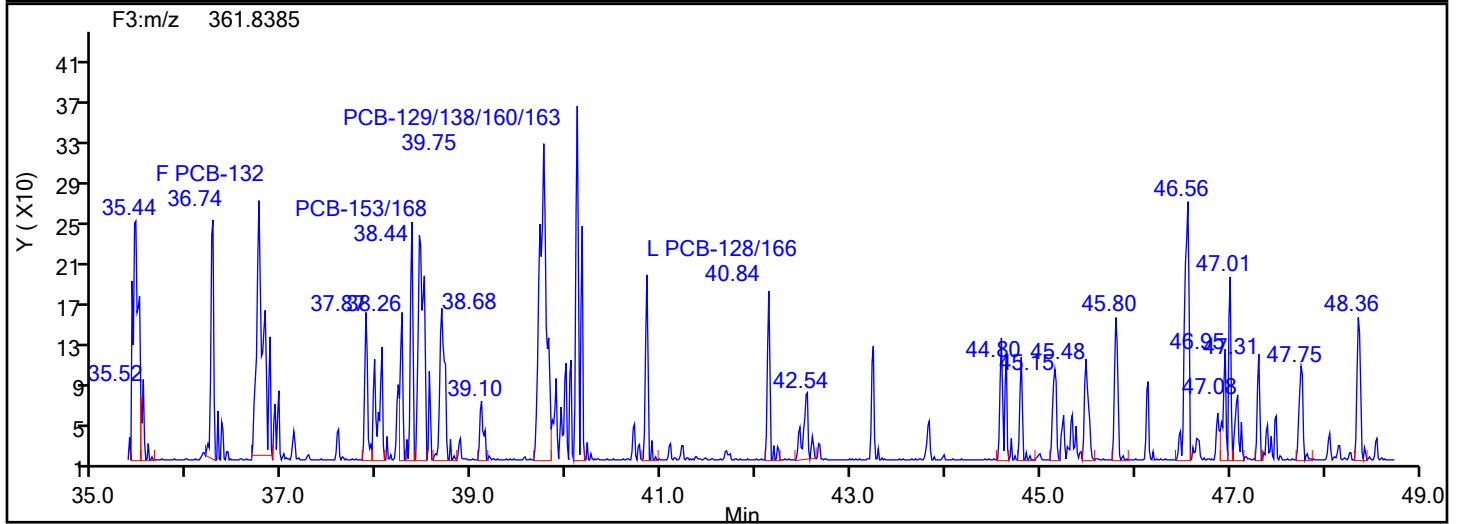
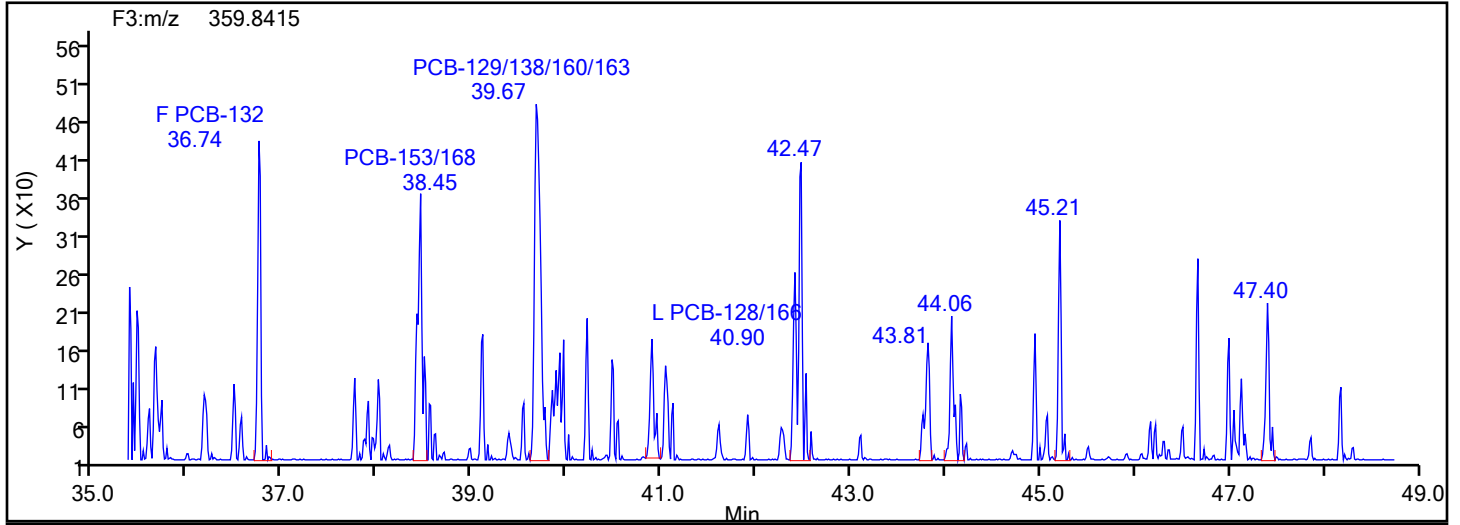


## HxPCB F3 Standards

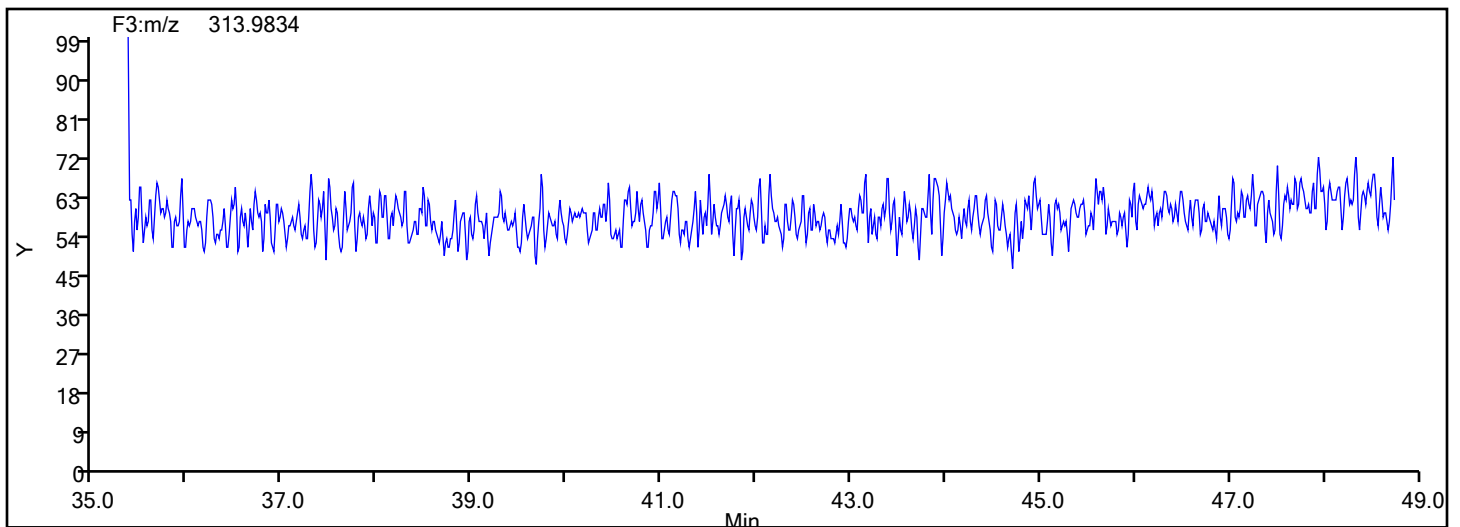


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

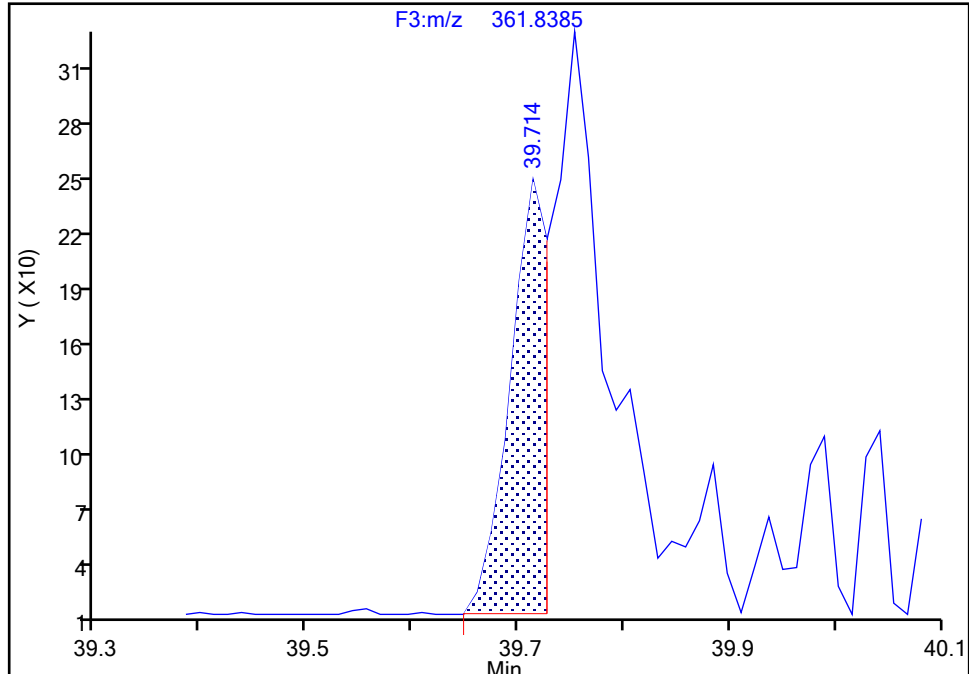
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Lims ID: 140-36940-A-14-C Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

**PCB-129/138/160/163, CAS: STL02296**

Signal: 2

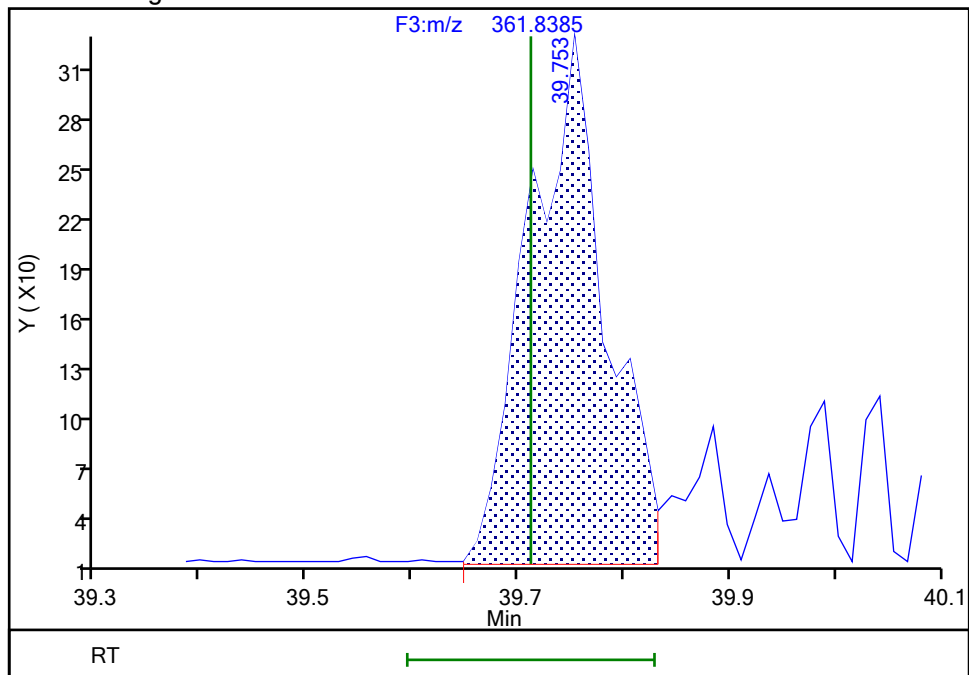
RT: 39.71  
Area: 519  
Amount: 0.039804  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.75  
Area: 1582  
Amount: 0.056040  
Amount Units: pg/ul

## Manual Integration Results



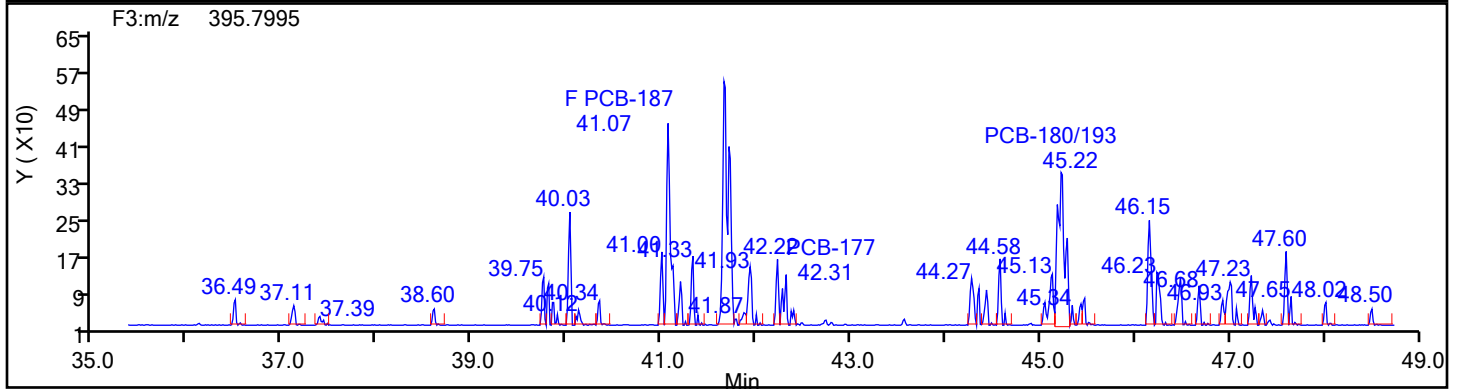
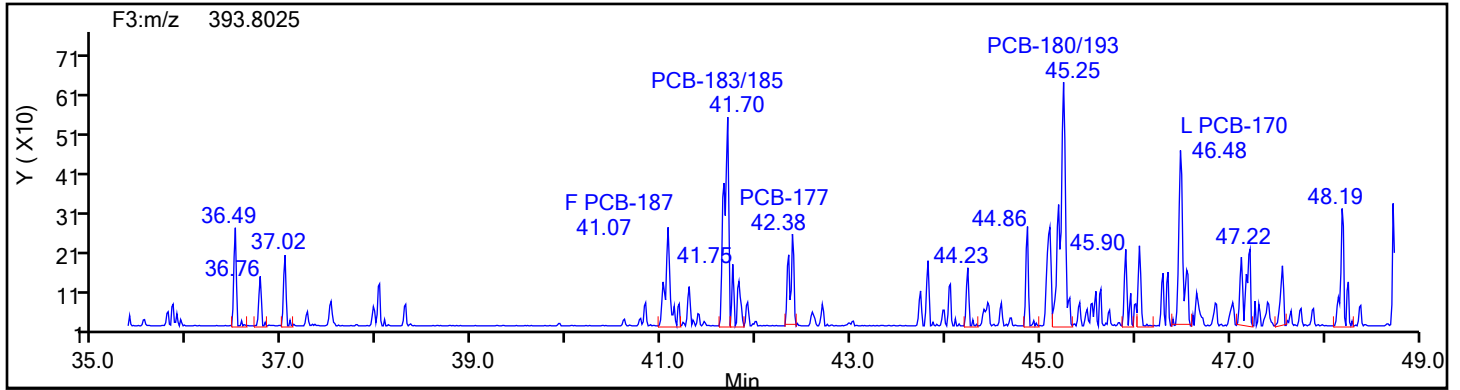
Reviewer: P0IK, 28-Jun-2024 14:19:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

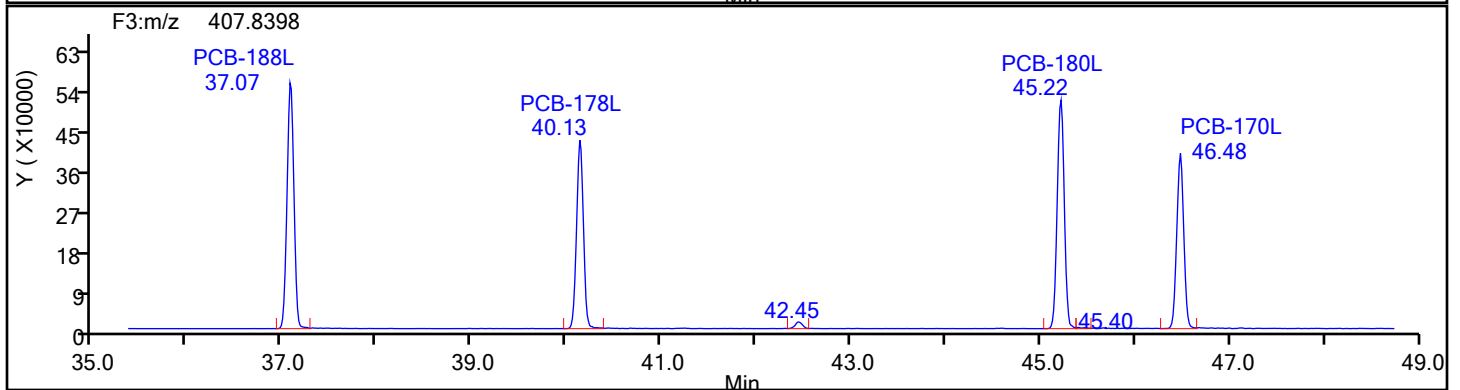
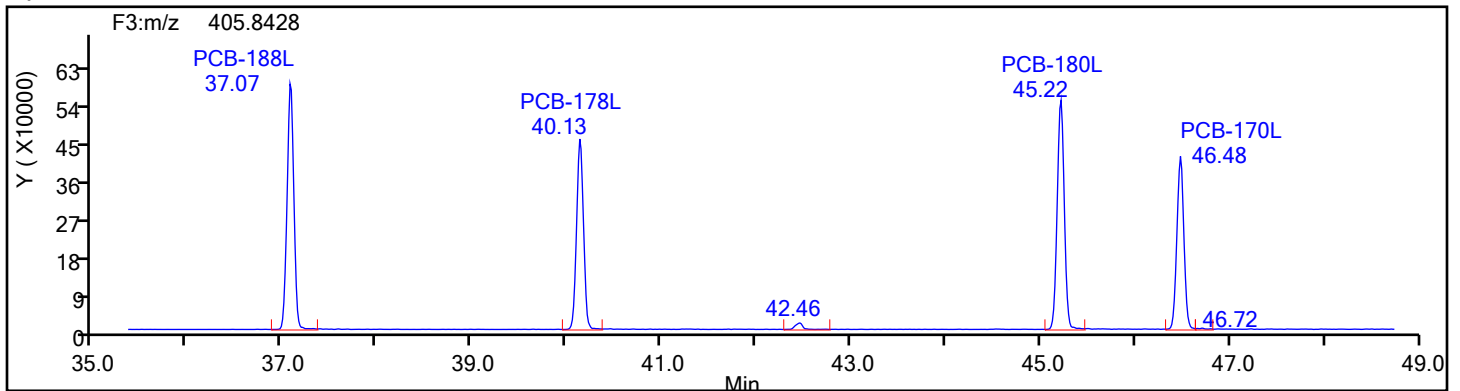
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3

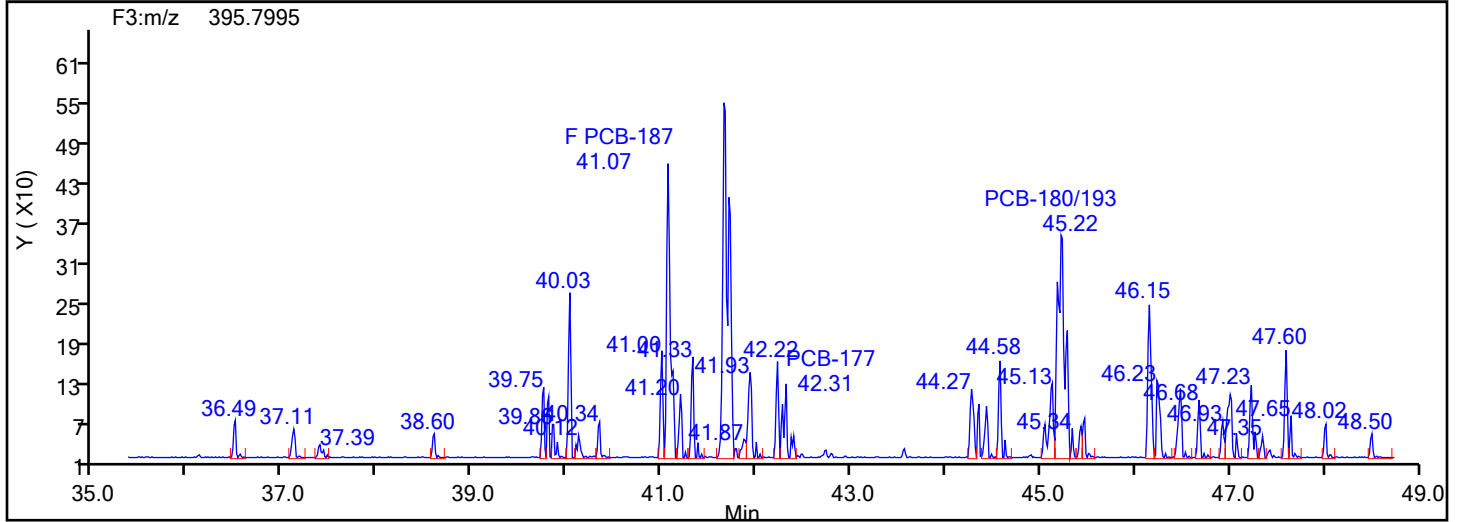
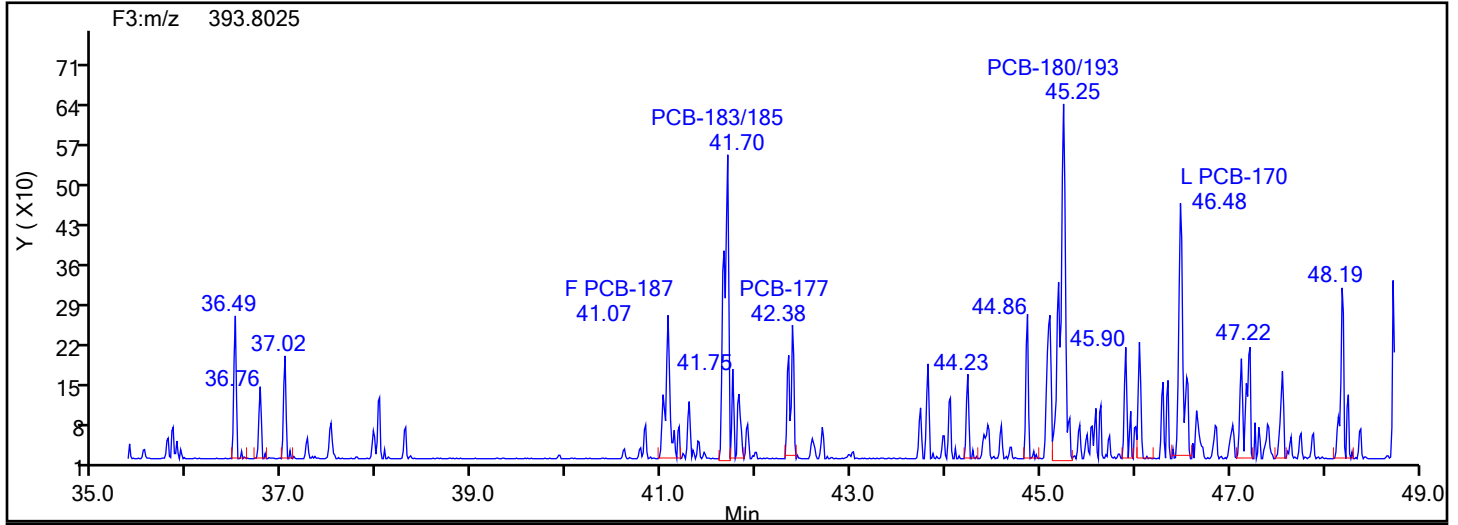


## HpPCB F3 Standards

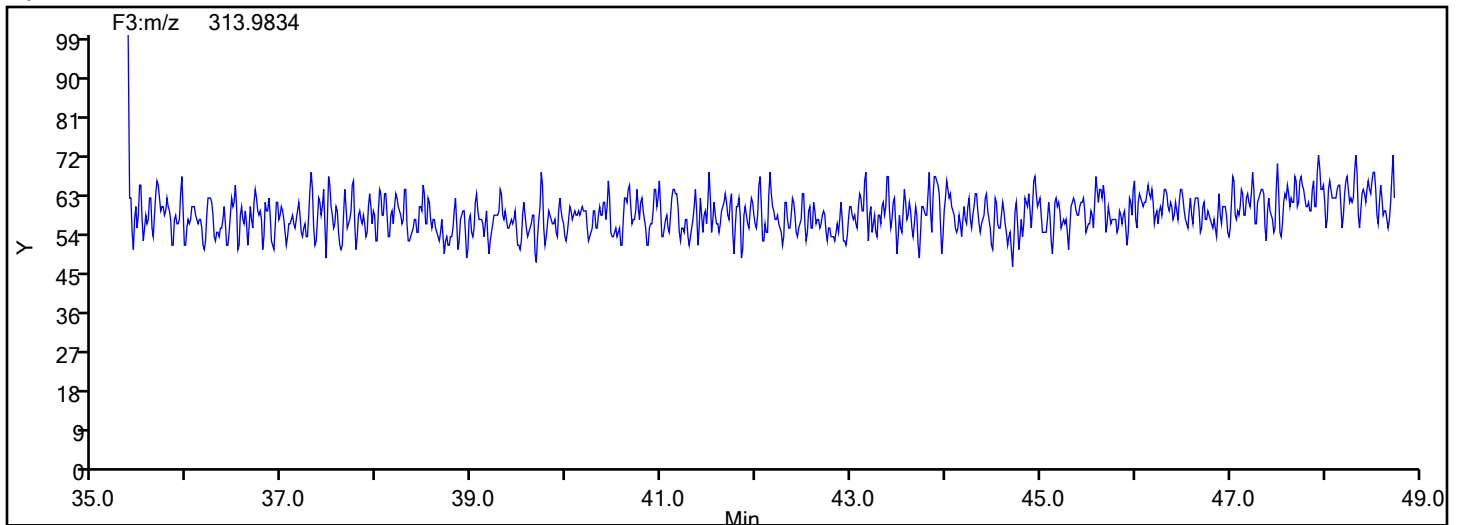


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3



## HpPCB F3 Lock Mass





## Eurofins Knoxville

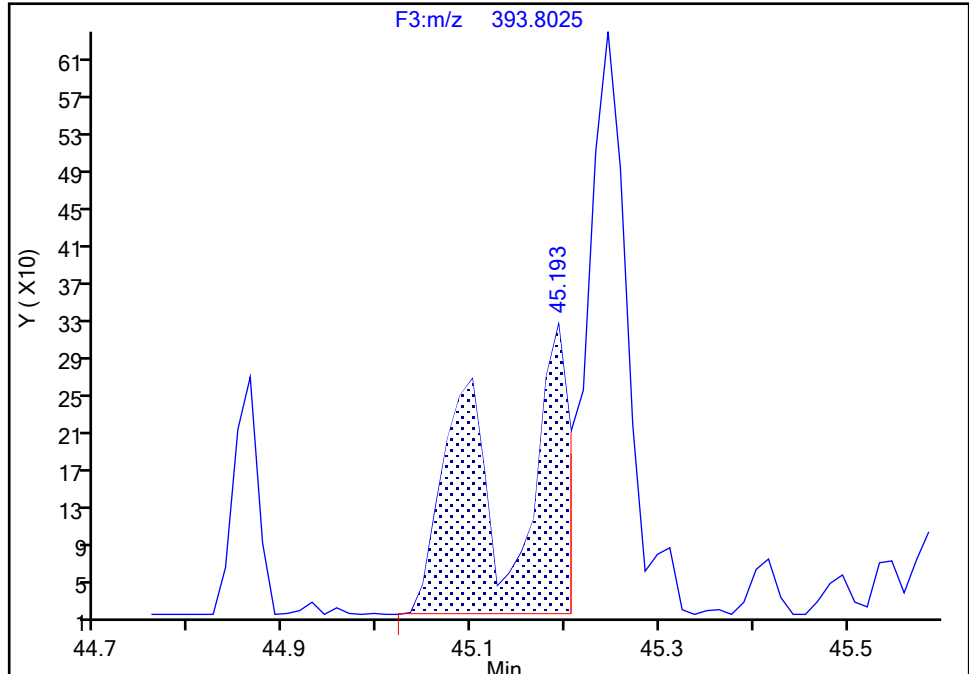
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Injection Date: 28-Jun-2024 12:47:00 Instrument ID: D2D  
Lims ID: 140-36940-A-14-C Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F3(35.64 :49.10 )

## PCB-180/193, CAS: STL01824

Signal: 1

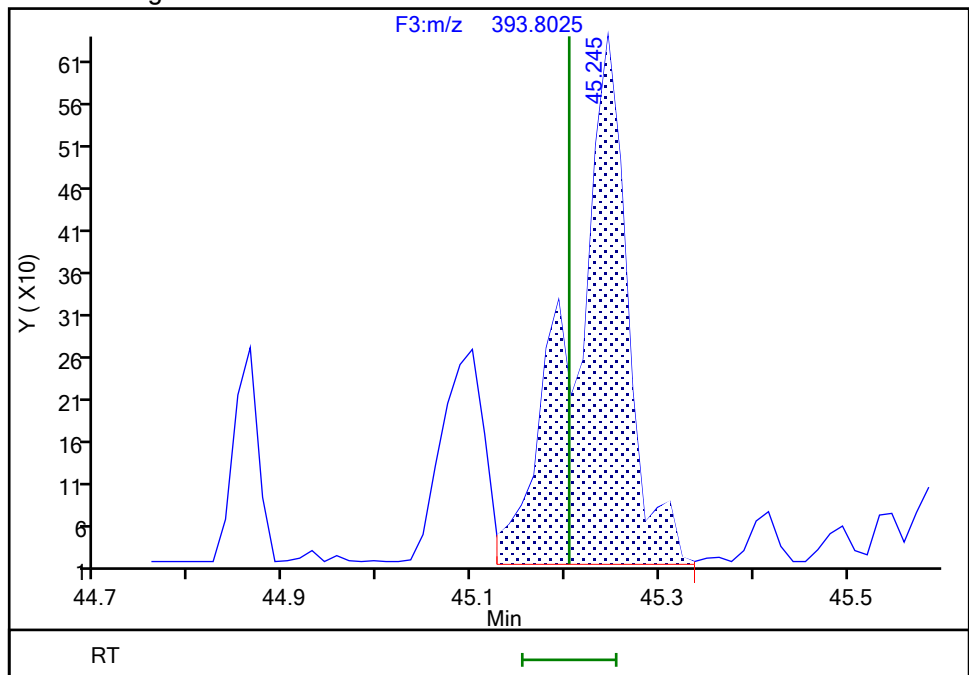
RT: 45.19  
Area: 1474  
Amount: 0.032277  
Amount Units: pg/ul

## Processing Integration Results



RT: 45.25  
Area: 2550  
Amount: 0.074467  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 14:20:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

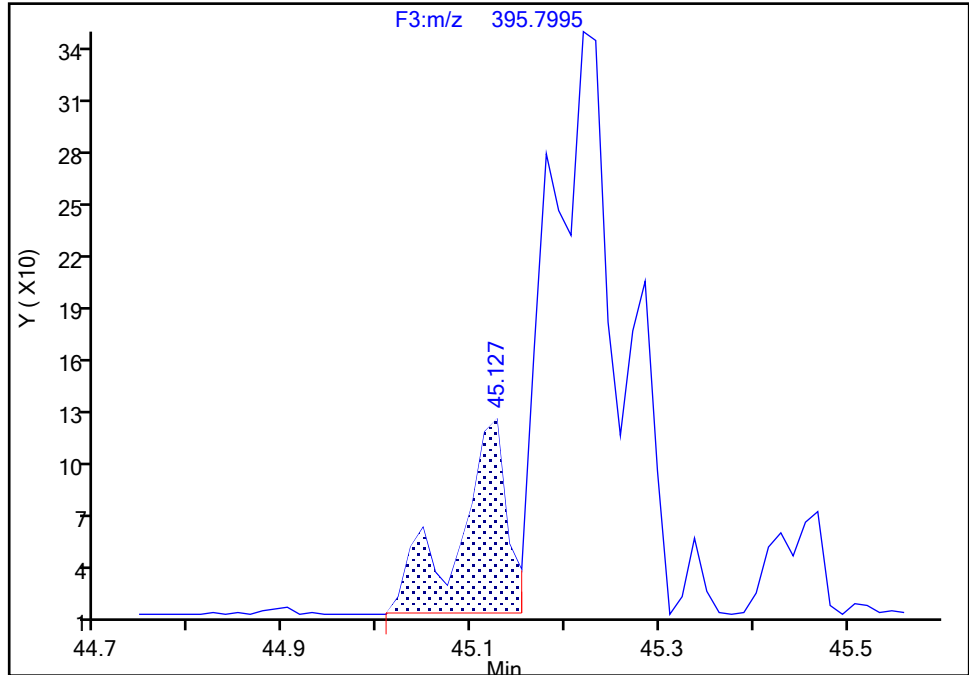
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Lims ID: 140-36940-A-14-C Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-180/193, CAS: STL01824

Signal: 2

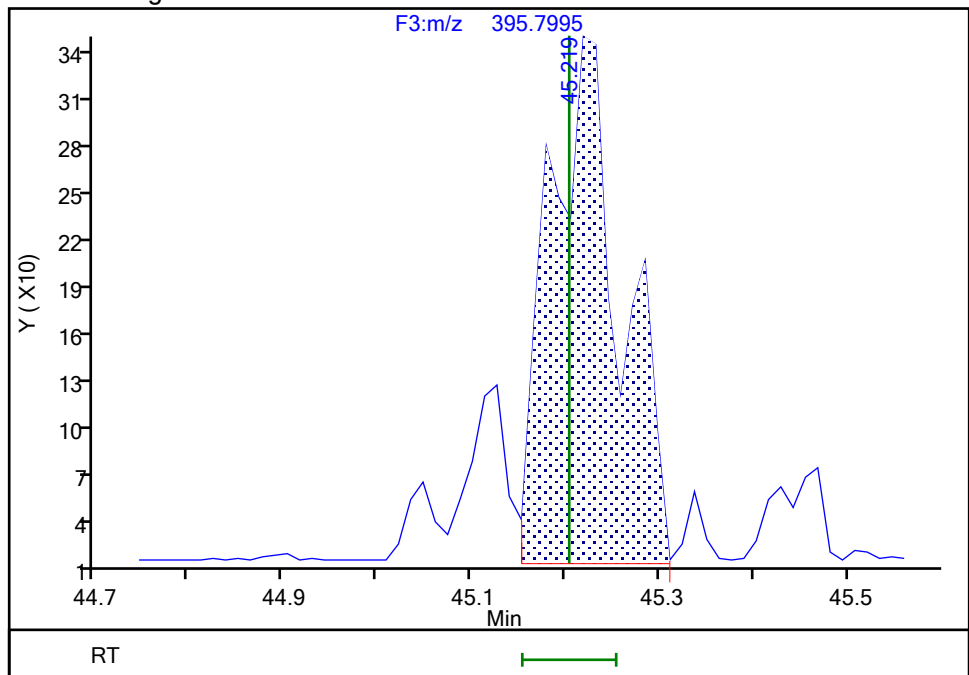
RT: 45.13  
Area: 395  
Amount: 0.032277  
Amount Units: pg/ul

## Processing Integration Results



RT: 45.22  
Area: 1762  
Amount: 0.074467  
Amount Units: pg/ul

## Manual Integration Results



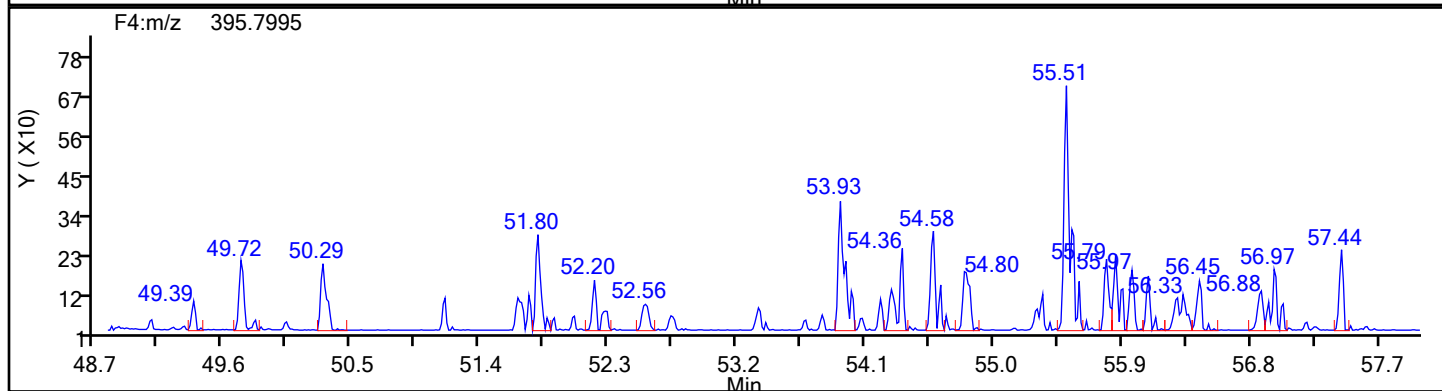
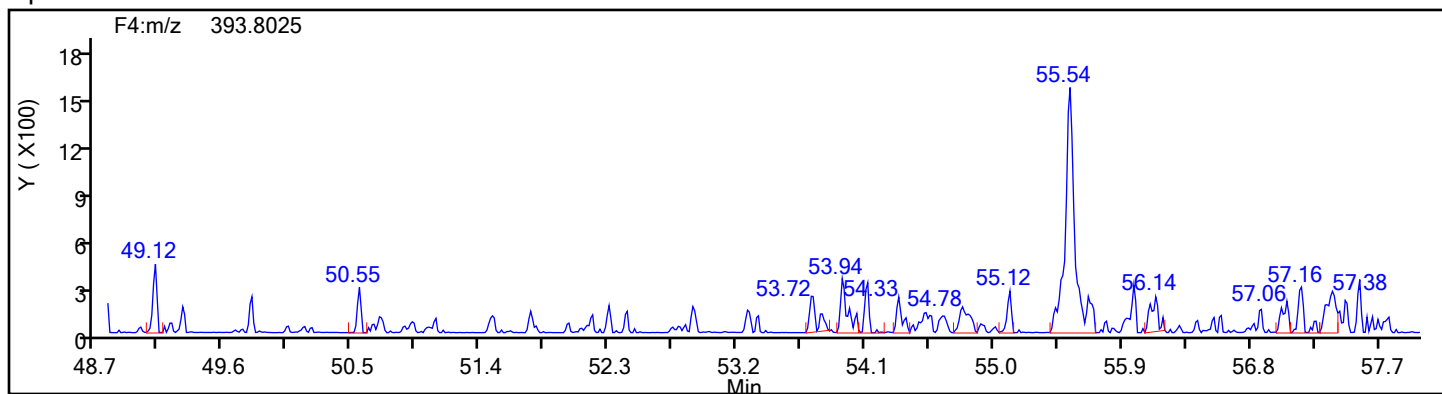
Reviewer: P0IK, 28-Jun-2024 14:20:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

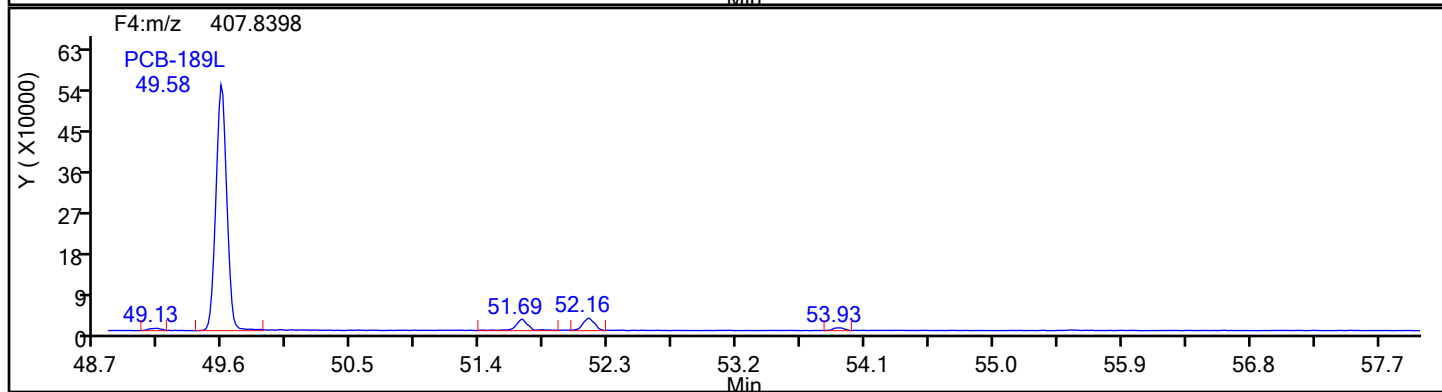
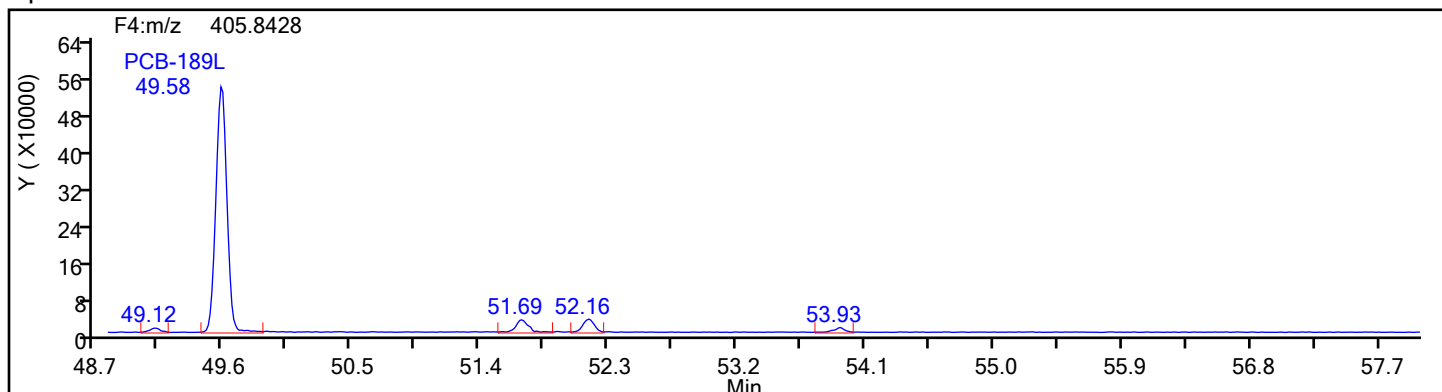
Audit Reason: Incomplete Integration

## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4

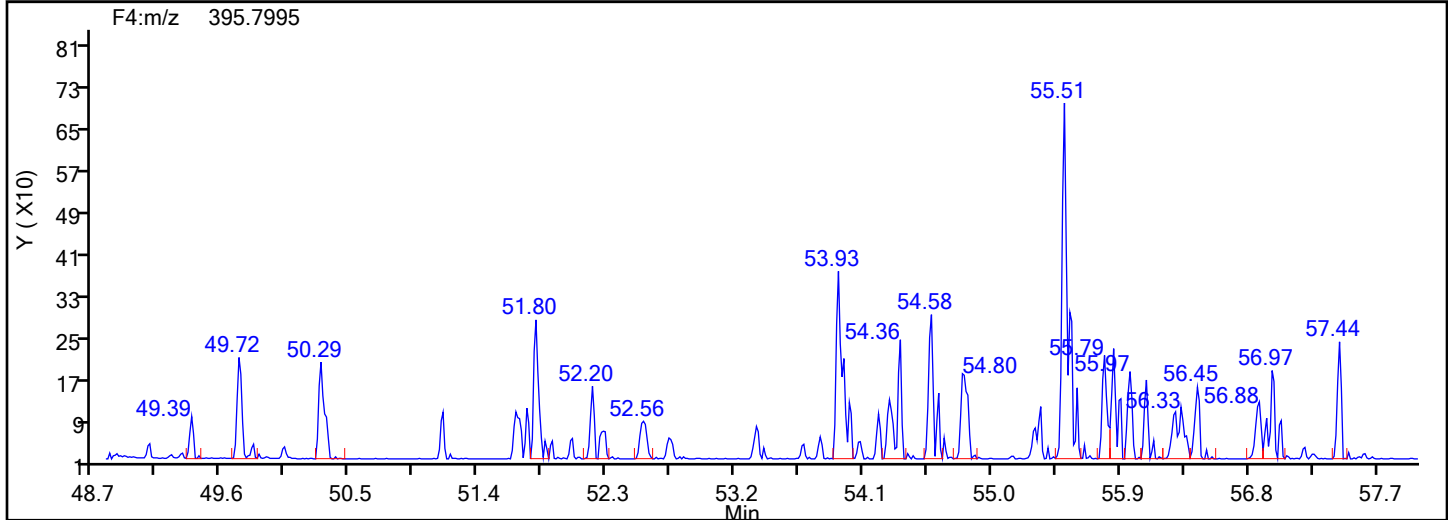
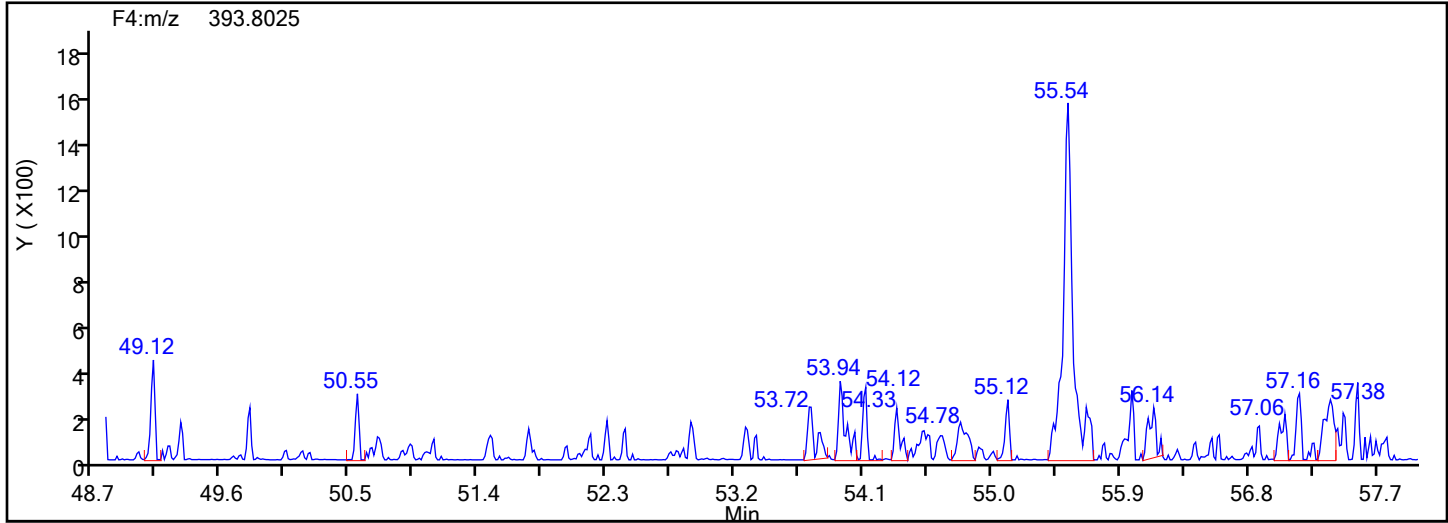


## HpPCB F4 Standards

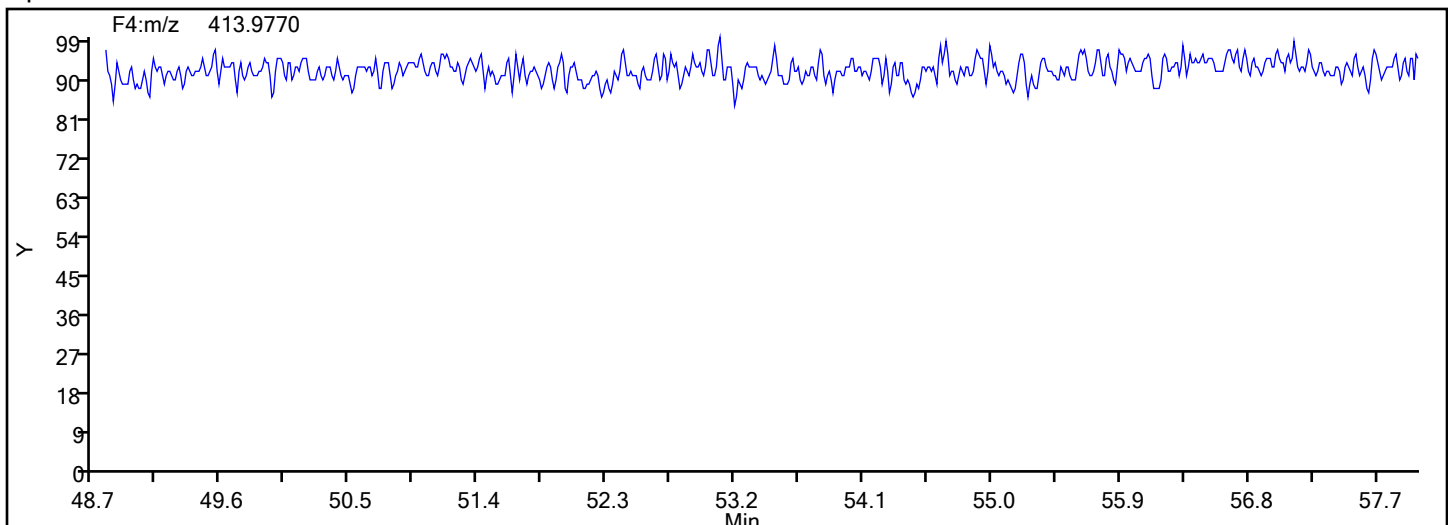


## Eurofins Knoxville

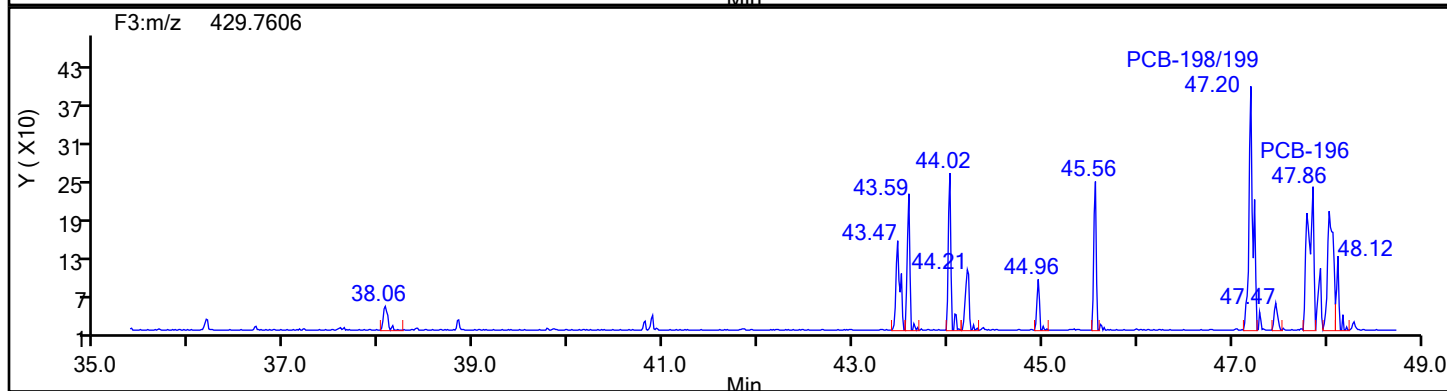
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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4



## HpPCB F4 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d		
Injection Date:	28-Jun-2024 12:47:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER		
Worklist#:	88219	Sample Line#:	6
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
OcPCB F3			



F3:m/z 439.8038

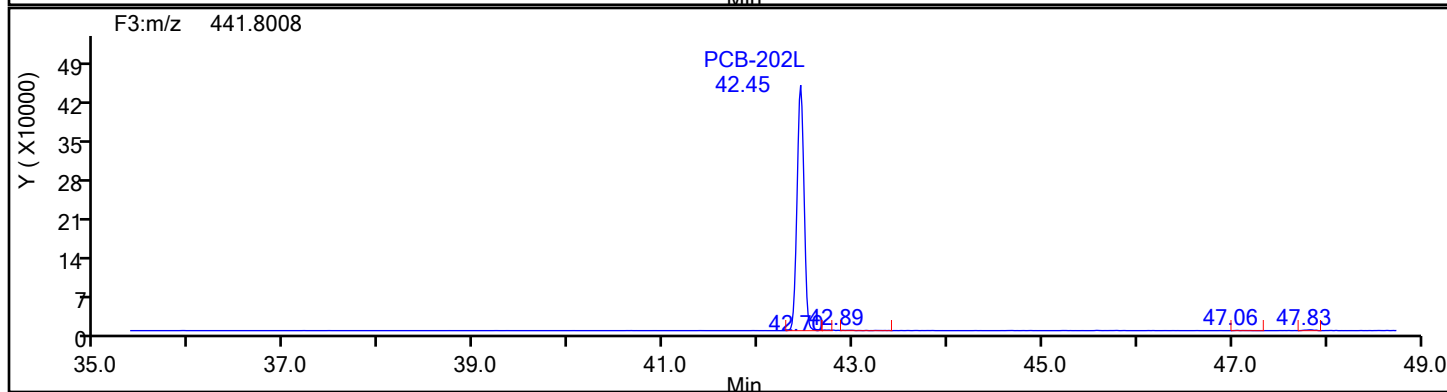
Y (X10000)

PCB-202L  
42.45

42.67 42.88 43.25

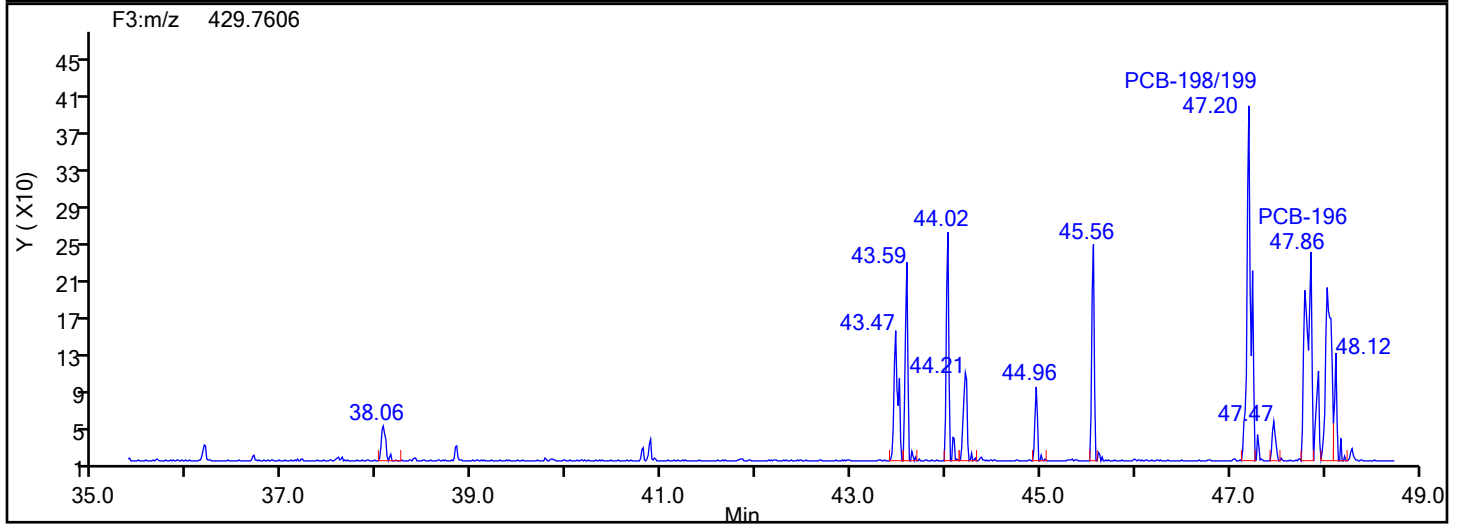
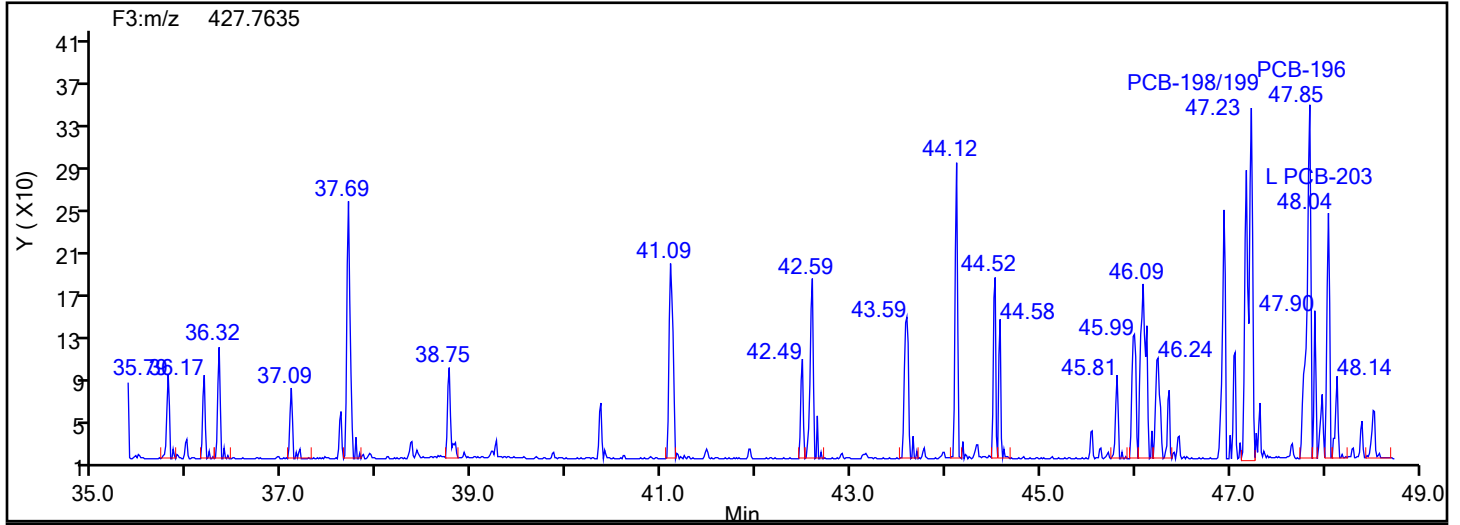
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Min

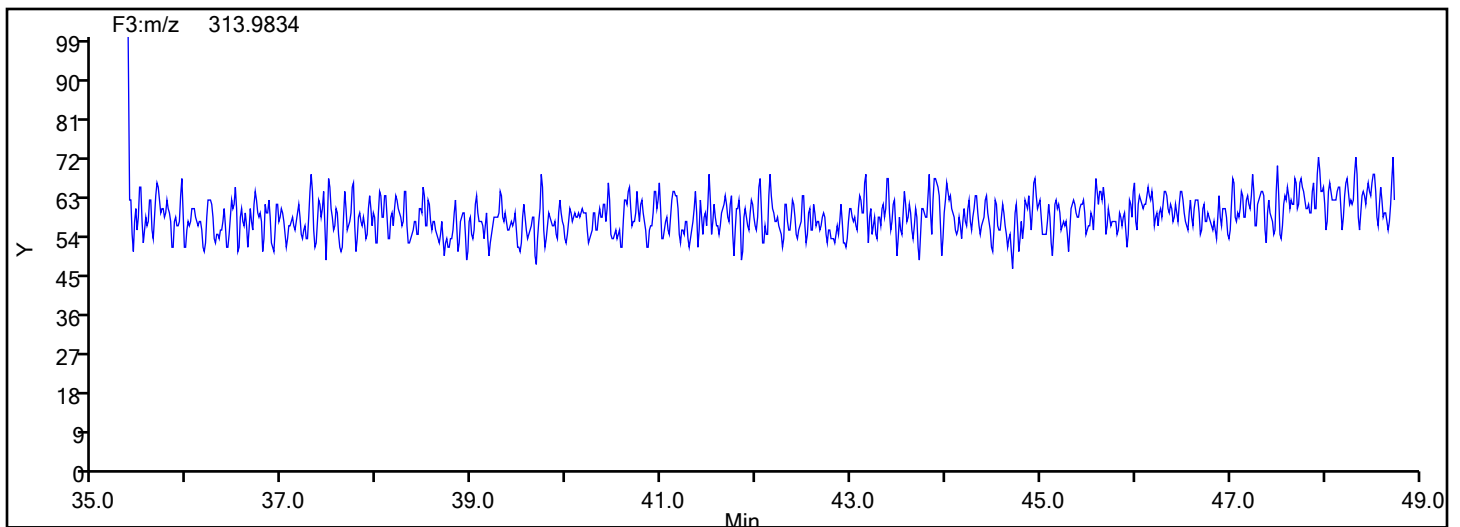


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

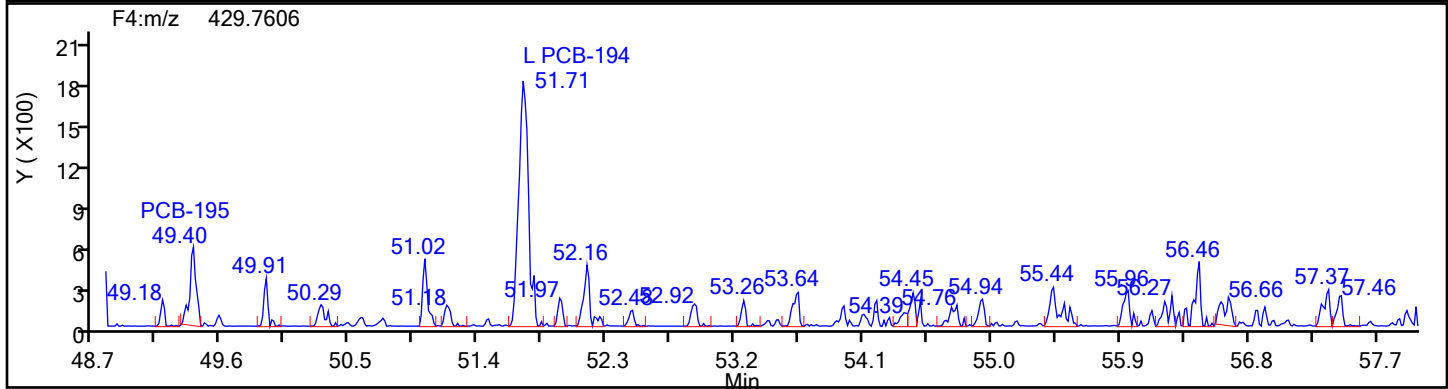
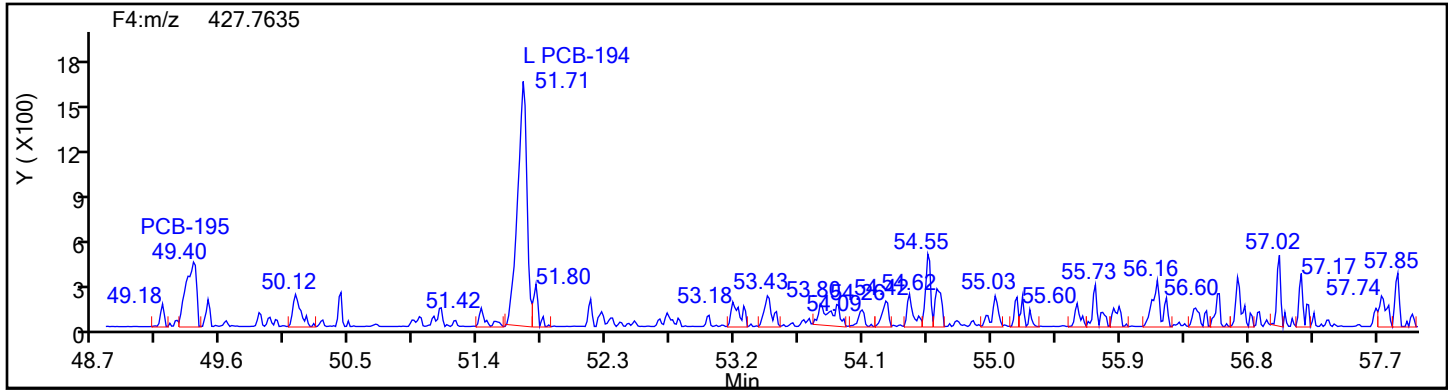


## OcPCB F3 Lock Mass

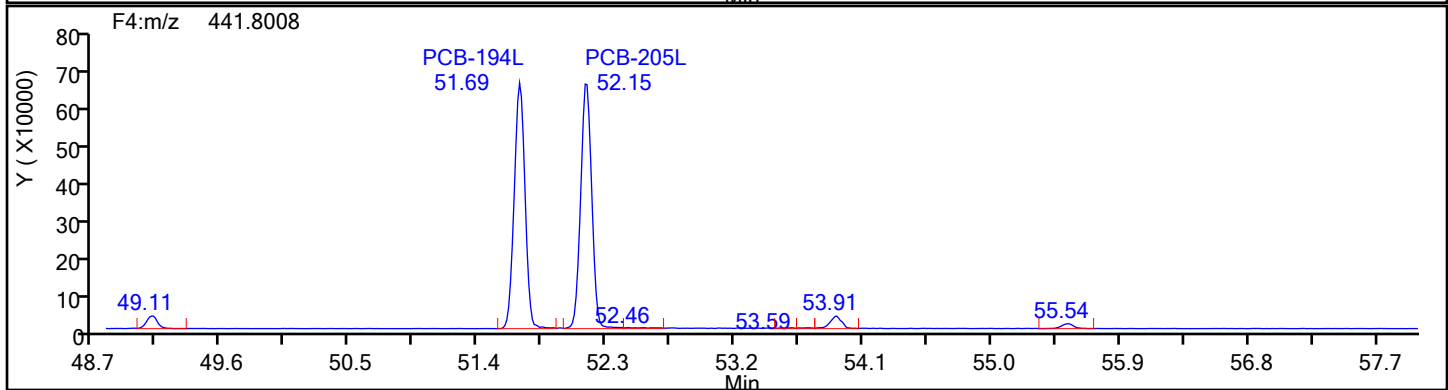
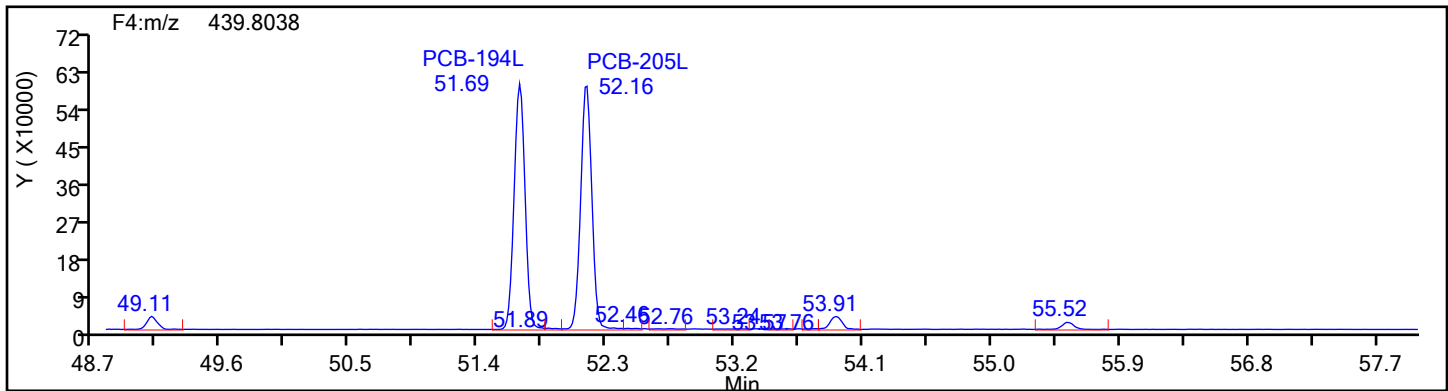


## Eurofins Knoxville

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Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

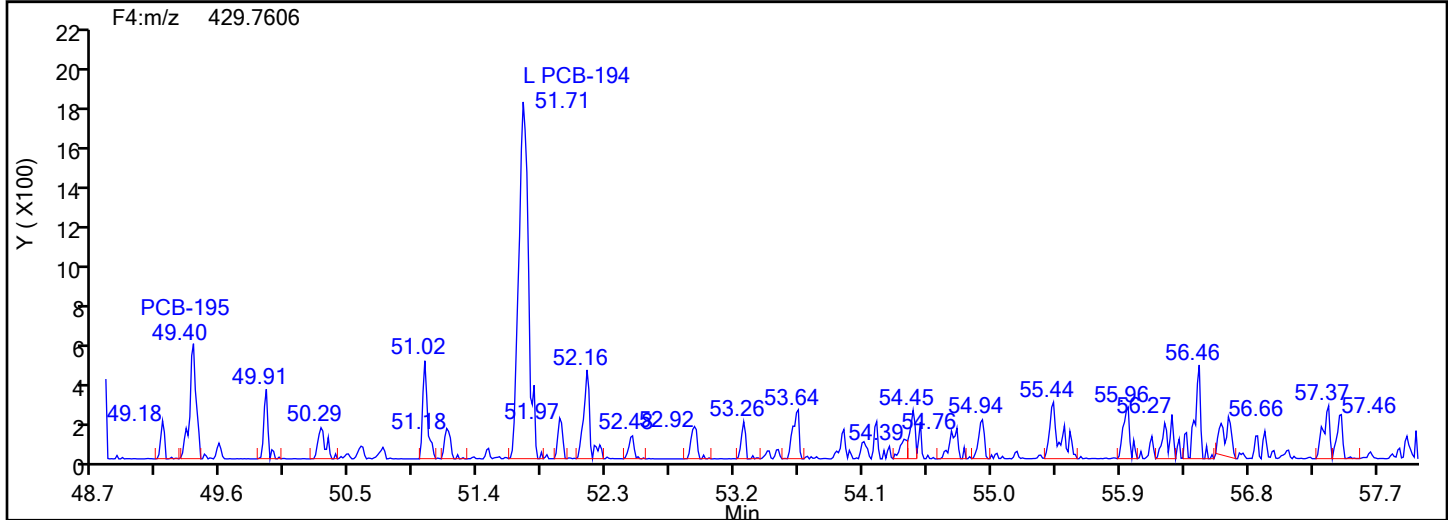
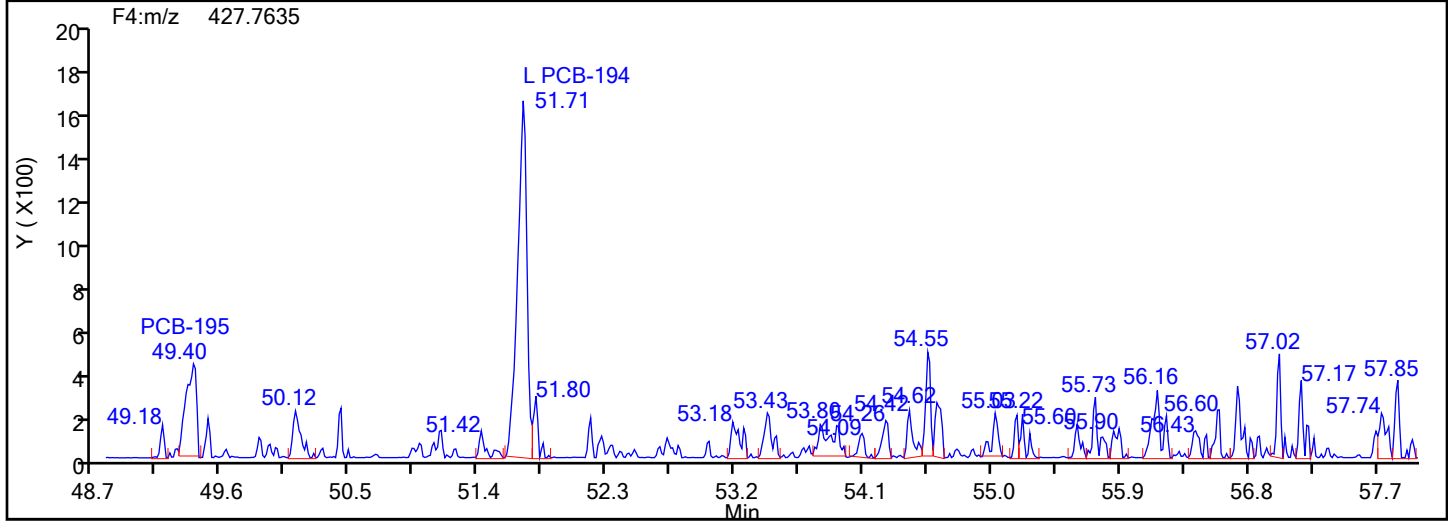


## OcPCB F4 Standards

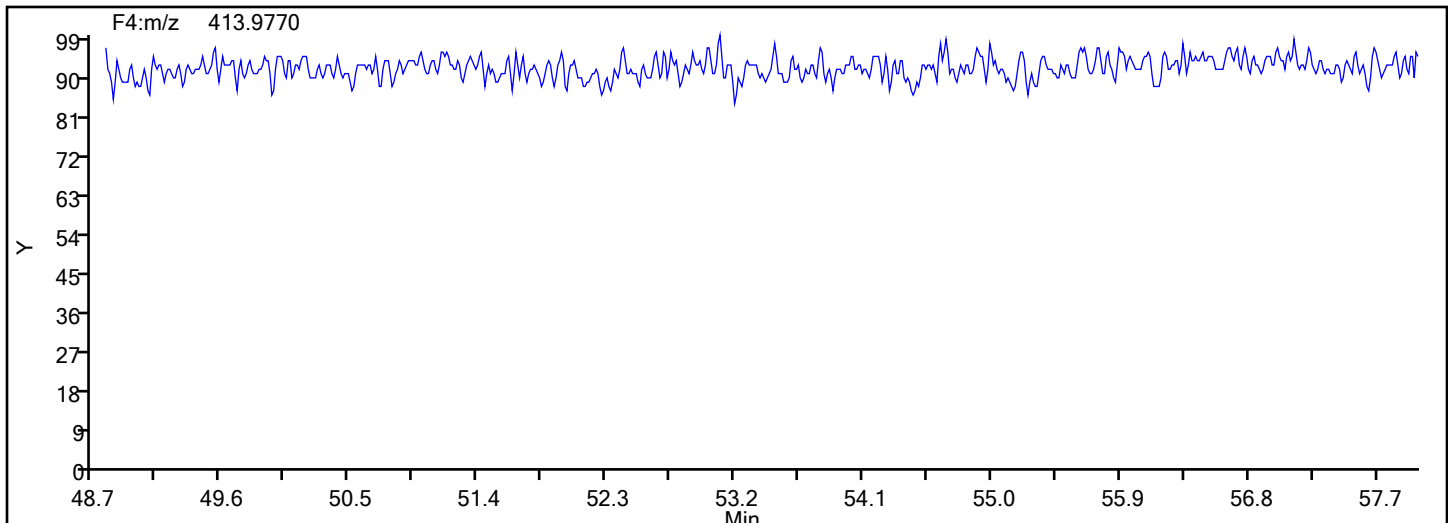


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4



## OcPCB F4 Lock Mass





## Eurofins Knoxville

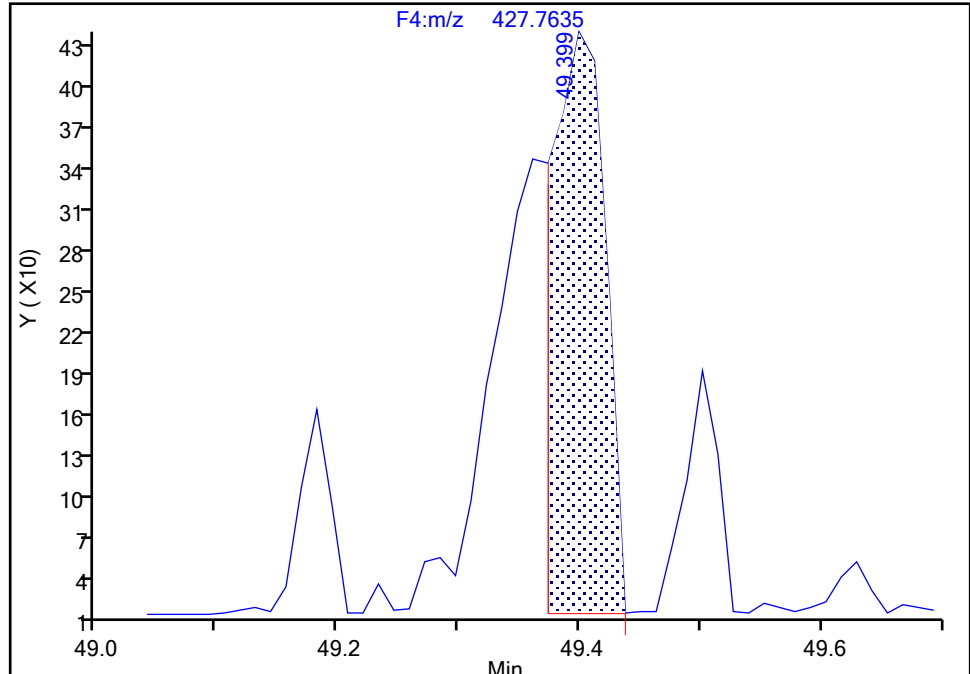
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Injection Date: 28-Jun-2024 12:47:00 Instrument ID: D2D  
Lims ID: 140-36940-A-14-C Lab Sample ID: 140-36940-14  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F4(49.20 :57.50 )

**PCB-195, CAS: 52663-78-2**

Signal: 1

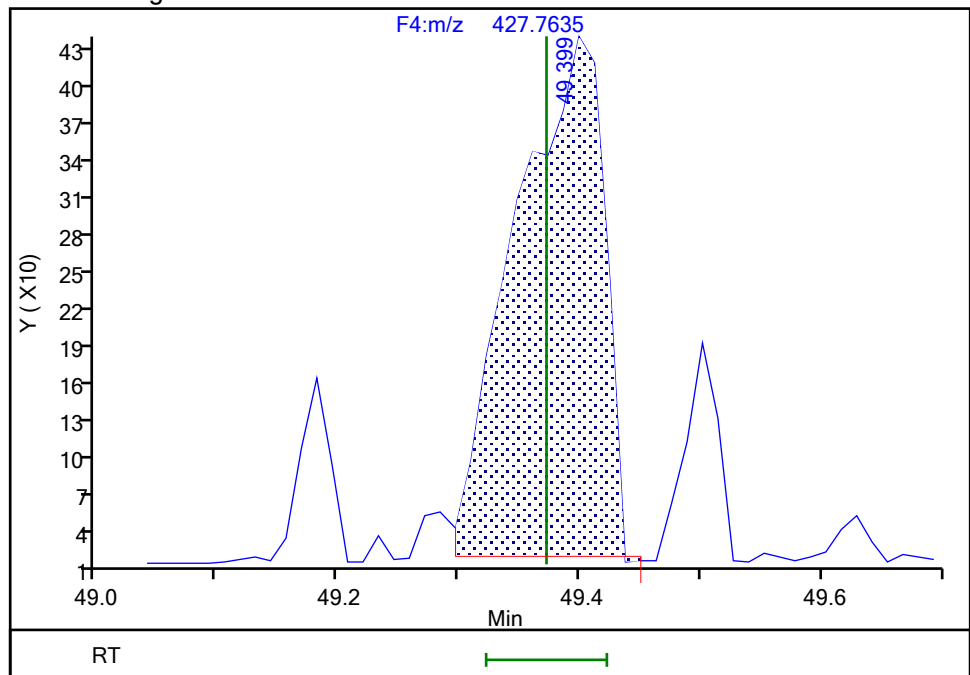
RT: 49.40  
Area: 1201  
Amount: 0.054115  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.40  
Area: 2133  
Amount: 0.070721  
Amount Units: pg/ul

## Manual Integration Results



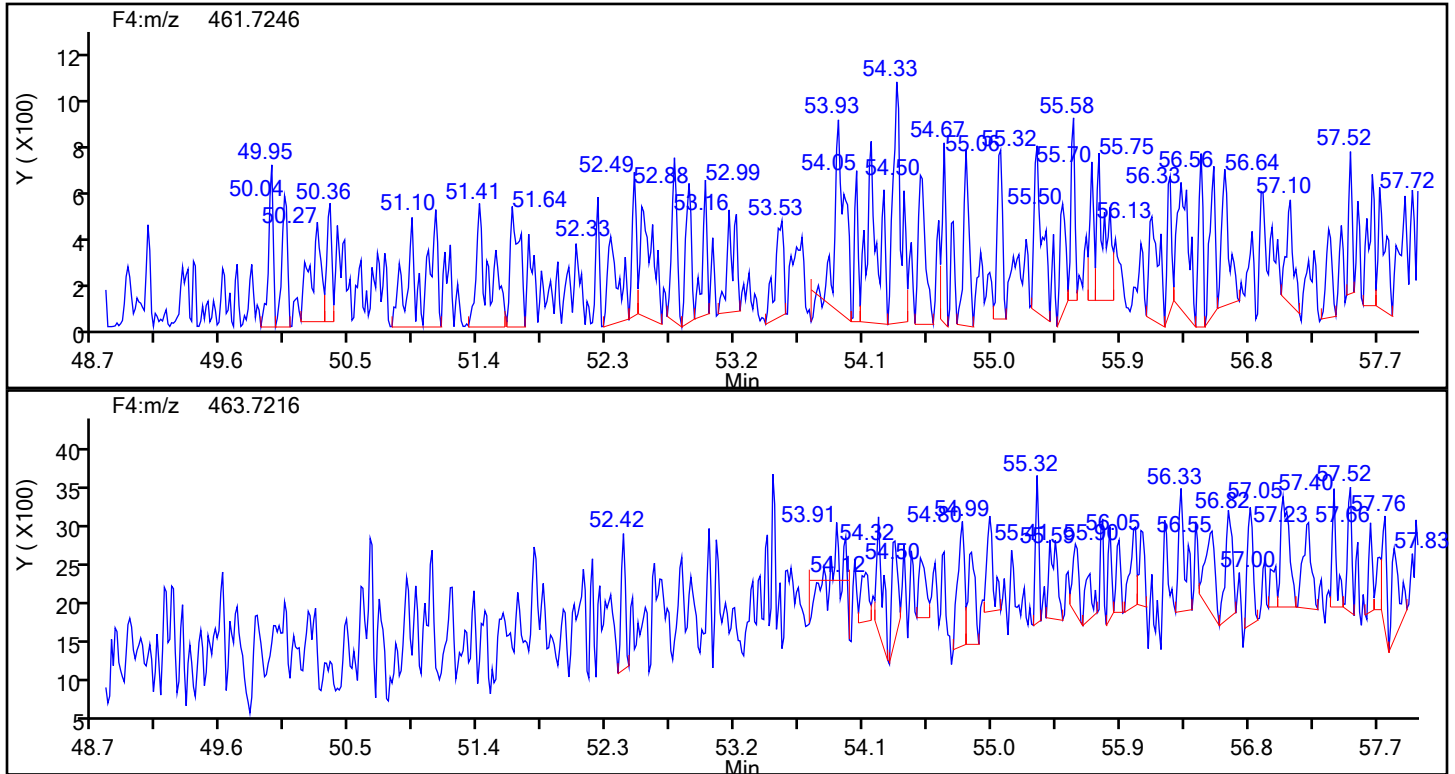
Reviewer: P0IK, 28-Jun-2024 14:20:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

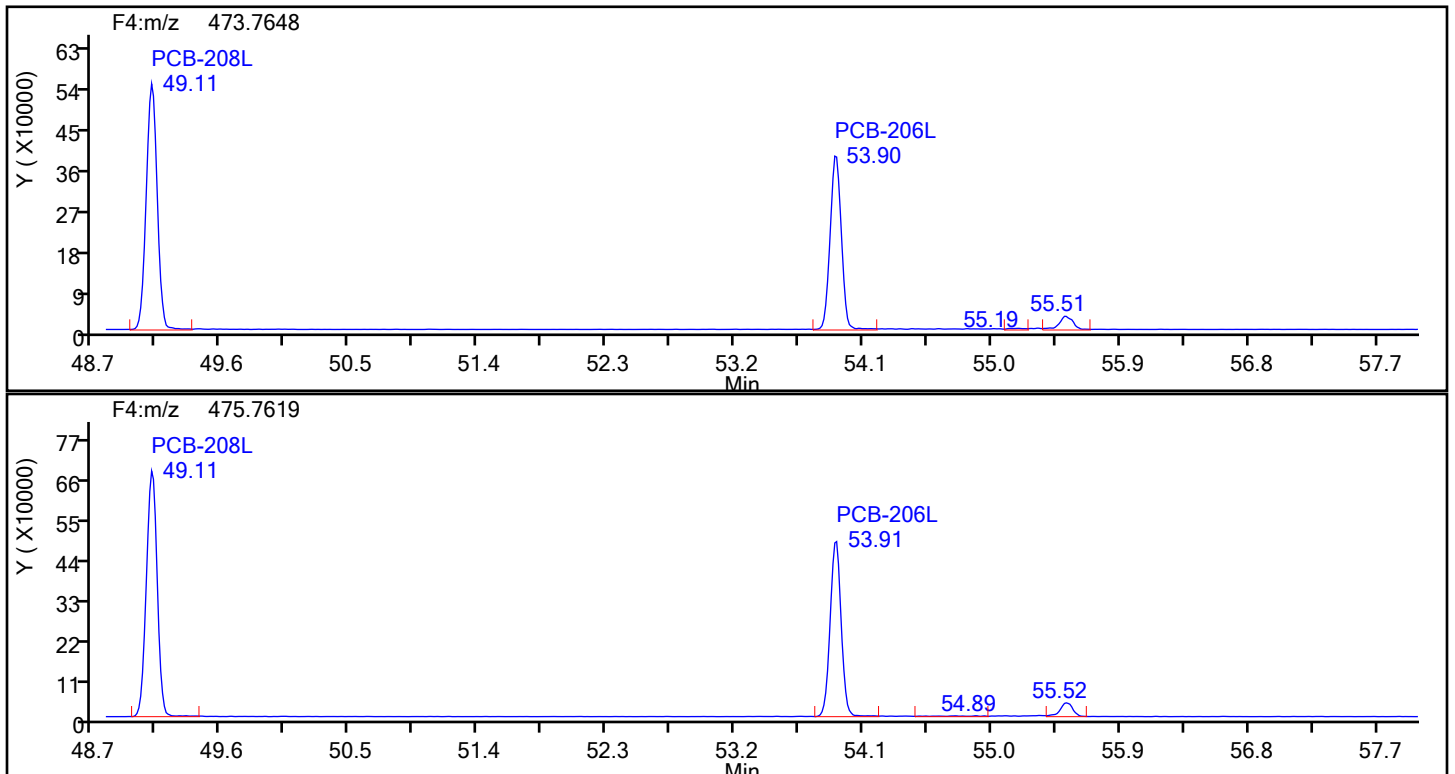
Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

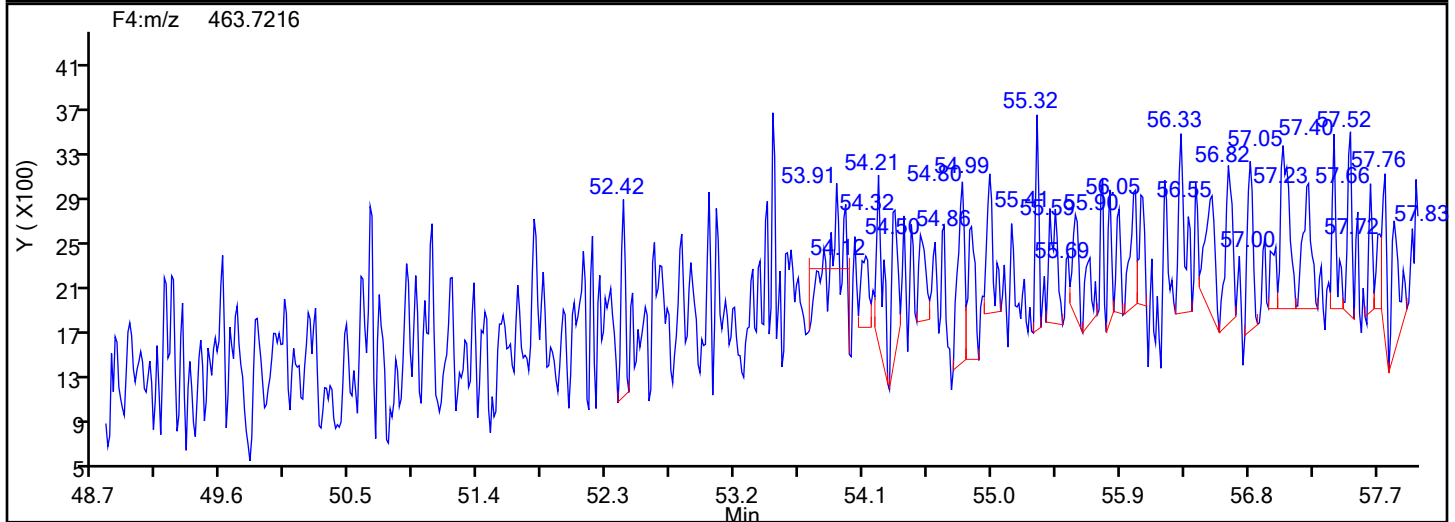
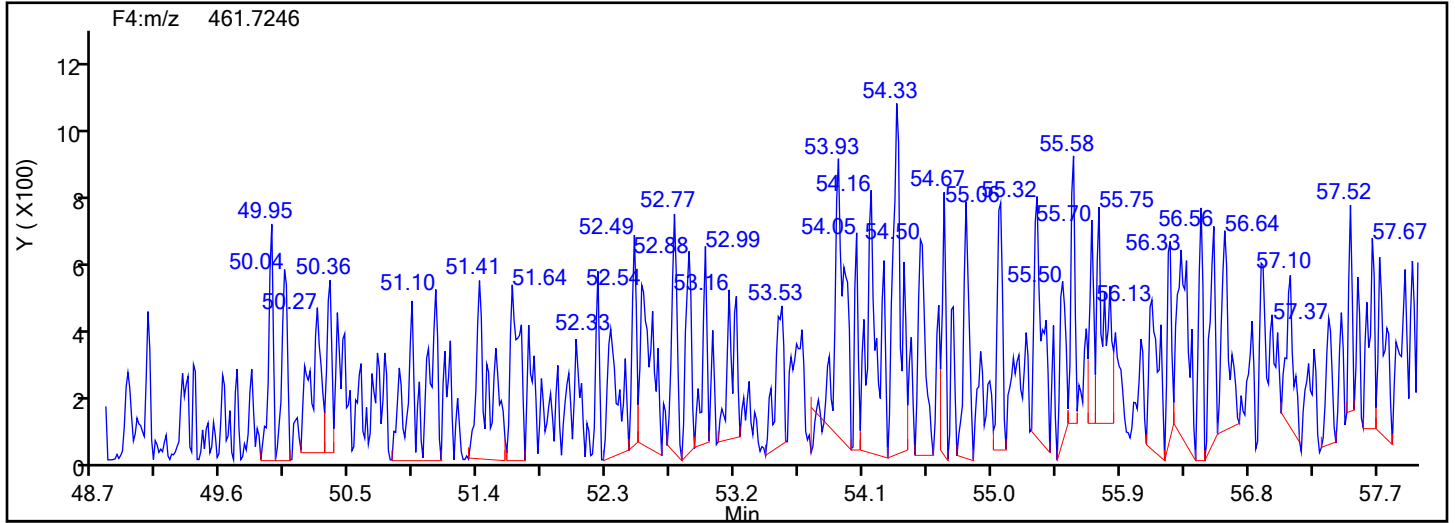


## NoPCB F4 Standards

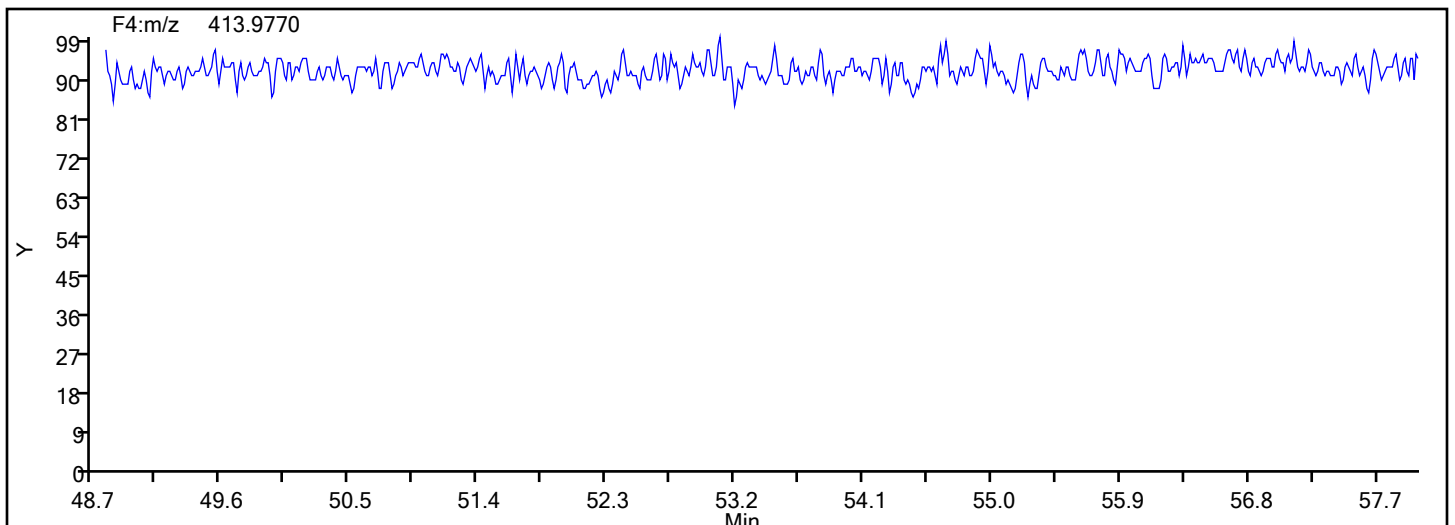


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

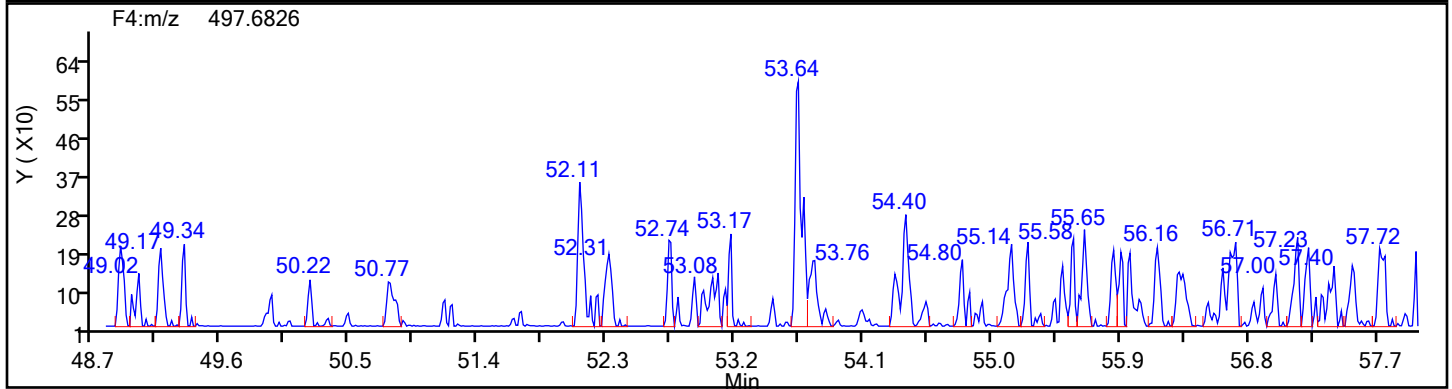
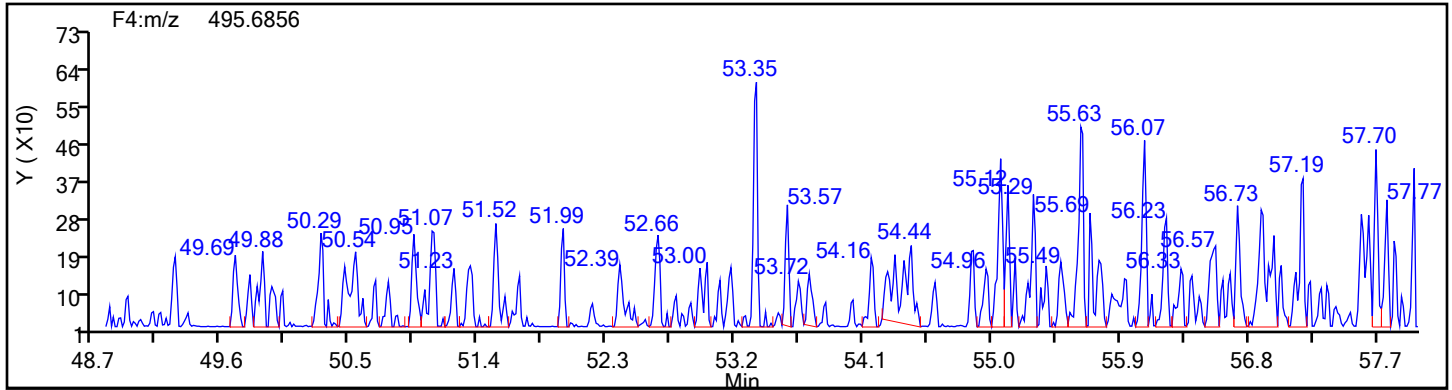


## NoPCB F4 Lock Mass

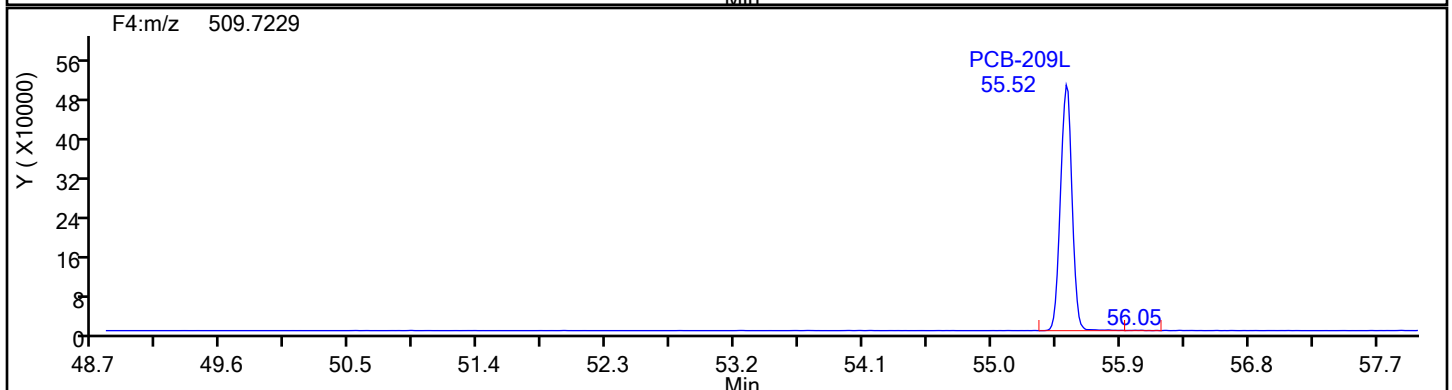
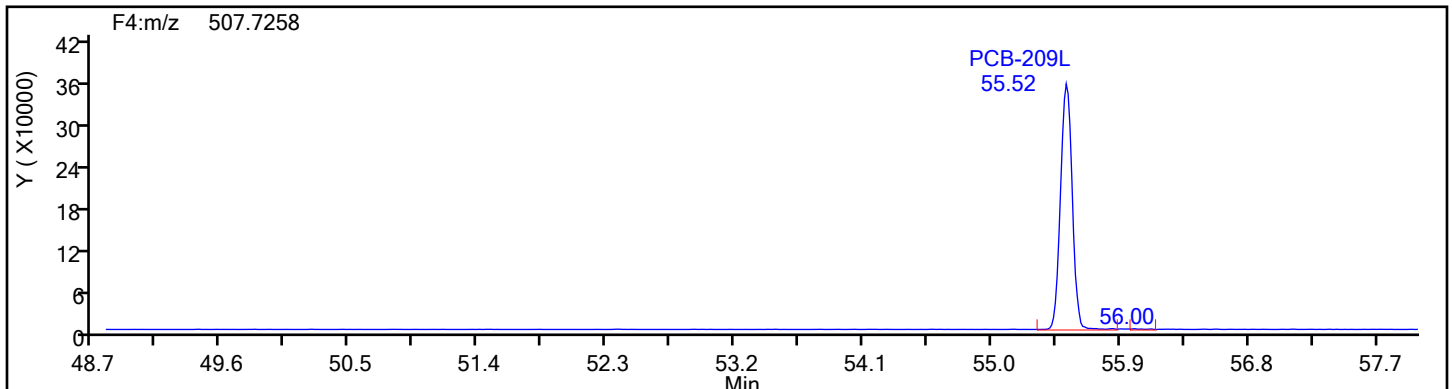


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4

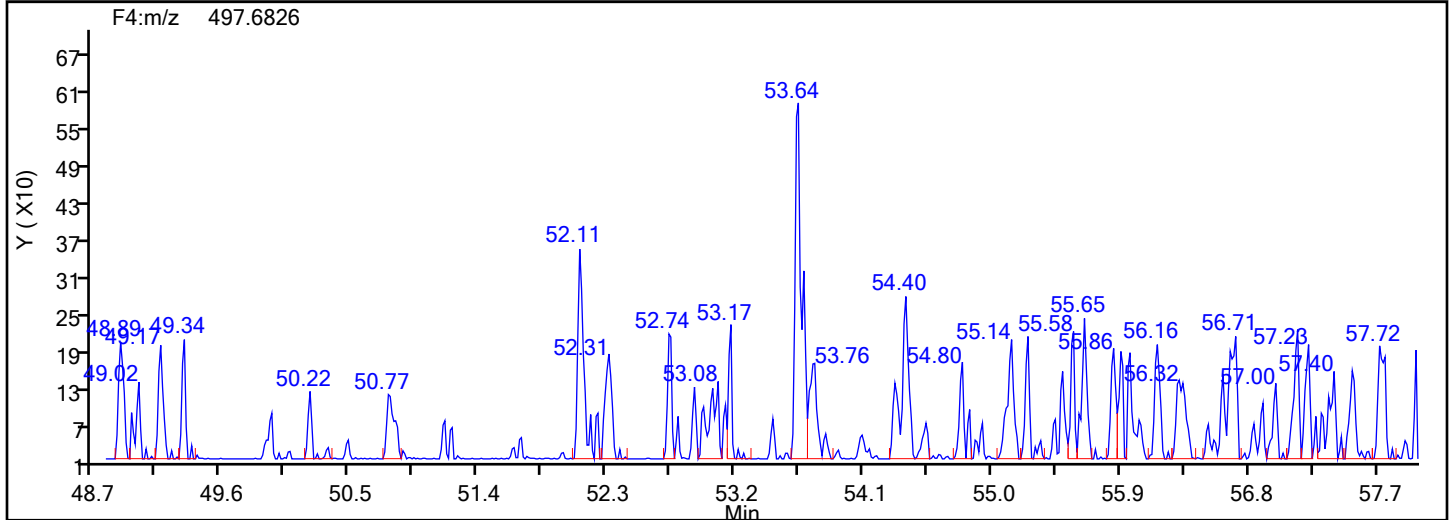
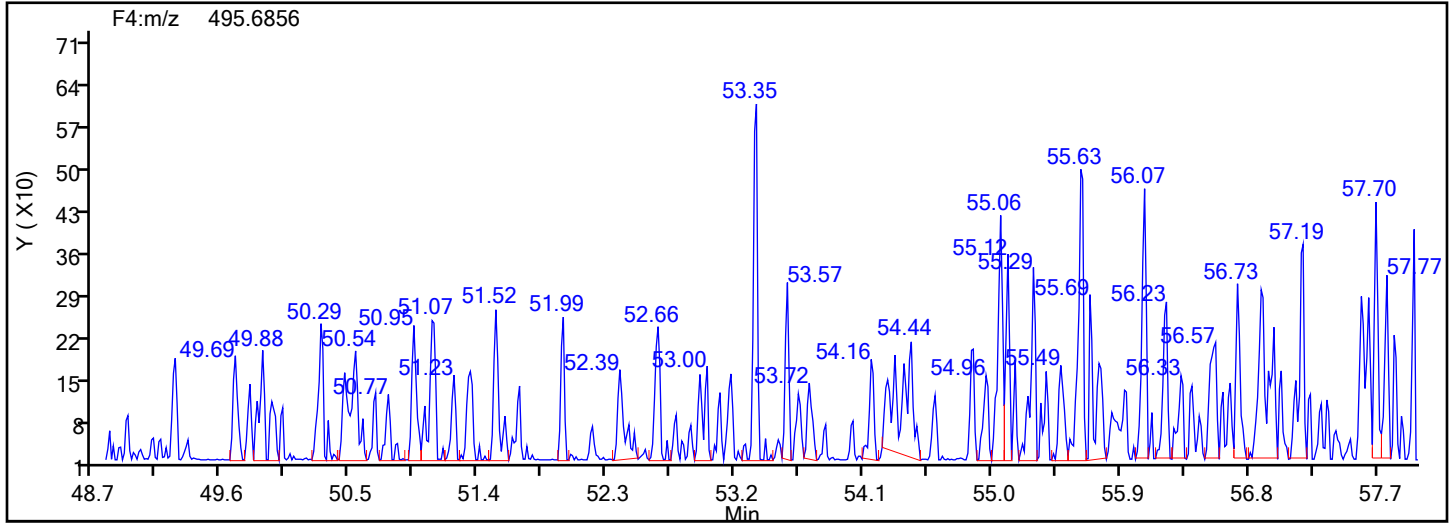


## DePCB F4 Standards

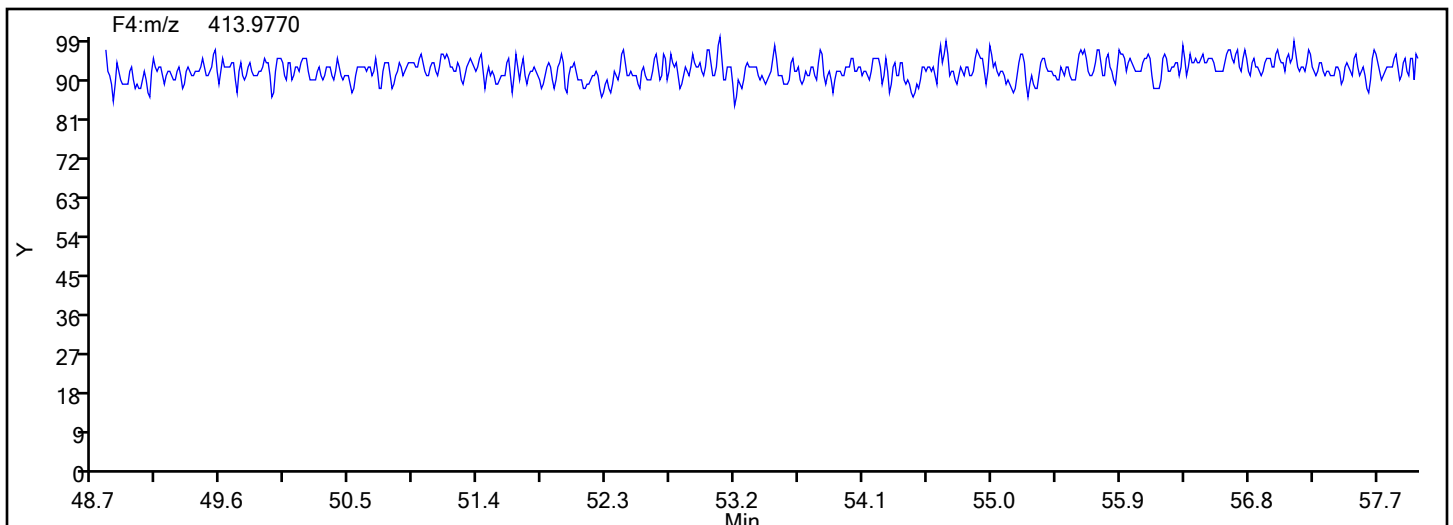


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Injection Date: 28-Jun-2024 12:47:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Worklist#: 88219 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\140-36940-a-14-c.d  
Lims ID: 140-36940-A-14-C  
Client ID: A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER  
Sample Type: Client  
Inject. Date: 28-Jun-2024 12:47:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033304-006  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 14:21:32 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 14:21:32

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	69.3	69.26
PCB-111L	100.0	77.7	77.65
PCB-178L	100.0	77.8	77.80

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87130/1	d2240531pi1a.d
Level 2	IC 140-87130/2	d2240531pi2a.d
Level 3	IC 140-87130/3	d2240531pi3.d
Level 4	IC 140-87130/4	d2240531pi4.d
Level 5	IC 140-87130/5	d2240531pi5.d
Level 6	IC 140-87130/6	d2240531pi6.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1	1.1940 ++++	1.2500	1.2013	1.2099	1.2404	AveI D		1.219 1				2.0		10.0			
PCB-2	1.1446 1.2389	1.1448	1.1639	1.1761	1.2148	AveI D		1.180 5				3.3		10.0			
PCB-3	1.2348 1.2515	1.1807	1.2162	1.2221	1.2183	AveI D		1.220 6				1.9		10.0			
PCB-4	1.2321 1.3461	1.3096	1.2781	1.2714	1.2537	AveI D		1.281 8				3.2		10.0			
PCB-10	1.2608 1.3985	1.2753	1.3399	1.3379	1.2769	AveI D		1.314 9				4.0		10.0			
PCB-9	1.3387 1.4964	1.4271	1.4600	1.4190	1.3934	AveI D		1.422 4				3.8		10.0			
PCB-7	1.5117 1.4731	1.3994	1.3542	1.3818	1.3603	AveI D		1.413 4				4.6		10.0			
PCB-6	1.6333 1.6280	1.5253	1.4705	1.5096	1.4858	AveI D		1.542 1				4.6		10.0			
PCB-5	1.3392 1.4189	1.3052	1.2992	1.3524	1.3220	AveI D		1.339 5				3.3		10.0			
PCB-8	1.6110 1.7082	1.5218	1.5695	1.5692	1.5536	AveI D		1.588 9				4.1		10.0			
PCB-19	1.4682 1.2988	1.1078	1.2744	1.2635	1.2727	AveI D		1.280 9				9.0		10.0			
PCB-14	1.4324 1.4715	1.3421	1.3998	1.4142	1.3548	AveI D		1.402 5				3.5		10.0			
PCB-18	1.6979 1.8772	1.7468	1.7368	1.7771	1.7554	AveI D		1.765 2				3.4		10.0			
PCB-18/30	1.6979 1.8772	1.7468	1.7368	1.7771	1.7554	AveI D		1.765 2				3.4		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-30	1.6979 1.8772	1.7468	1.7368	1.7771	1.7554	AveI D		1.765 2				3.4		10.0			
PCB-11	1.3905 1.3772	1.1727	1.2859	1.2837	1.2603	AveI D		1.295 1				6.2		10.0			
PCB-17	1.2483 1.2648	1.2573	1.2165	1.2459	1.2252	AveI D		1.243 0				1.5		10.0			
PCB-12	1.2630 1.4906	1.2736	1.3396	1.3242	1.3238	AveI D		1.335 8				6.1		10.0			
PCB-12/13	1.2630 1.4906	1.2736	1.3396	1.3242	1.3238	AveI D		1.335 8				6.1		10.0			
PCB-13	1.2630 1.4906	1.2736	1.3396	1.3242	1.3238	AveI D		1.335 8				6.1		10.0			
PCB-27	1.6345 1.9961	1.8041	1.8324	1.8666	1.8627	AveI D		1.832 7				6.4		10.0			
PCB-24	1.6646 1.8042	1.6220	1.6313	1.6521	1.6916	AveI D		1.677 7				4.0		10.0			
PCB-16	1.1273 1.1805	1.0631	1.1165	1.1505	1.1336	AveI D		1.128 6				3.5		10.0			
PCB-15	1.3472 1.3444	1.2915	1.2543	1.2698	1.2345	AveI D		1.290 3				3.6		10.0			
PCB-54	1.0548 1.3194	1.3250	1.3398	1.3160	1.2850	AveI D		1.273 3				8.5		10.0			
PCB-32	1.8436 1.9277	1.7589	1.8295	1.8063	1.8286	AveI D		1.832 4				3.0		10.0			
PCB-34	1.1276 1.2003	1.1001	1.1315	1.1255	1.0816	AveI D		1.127 7				3.6		10.0			
PCB-23	1.0846 1.1334	1.1176	1.0828	1.0618	1.0076	AveI D		1.081 3				4.1		10.0			
PCB-26	1.0875 1.2670	1.1190	1.0875	1.0861	1.1056	AveI D		1.125 5				6.3		10.0			
PCB-26/29	1.0875 1.2670	1.1190	1.0875	1.0861	1.1056	AveI D		1.125 5				6.3		10.0			
PCB-29	1.0875 1.2670	1.1190	1.0875	1.0861	1.1056	AveI D		1.125 5				6.3		10.0			
PCB-25	1.3479 1.4028	1.2136	1.2173	1.2478	1.2074	AveI D		1.272 8				6.5		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.



FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-50	0.8981 0.9455	0.8303	0.8206	0.8411	0.8112	AveI D		0.857 8				6.1		10.0			
PCB-50/53	0.8981 0.9455	0.8303	0.8206	0.8411	0.8112	AveI D		0.857 8				6.1		10.0			
PCB-53	0.8981 0.9455	0.8303	0.8206	0.8411	0.8112	AveI D		0.857 8				6.1		10.0			
PCB-31	1.1698 1.2166	1.2134	1.1361	1.1021	1.0816	AveI D		1.153 2				4.9		10.0			
PCB-20	1.1256 1.3542	1.1253	1.1314	1.1457	1.1486	AveI D		1.171 8				7.7		10.0			
PCB-20/28	1.1256 1.3542	1.1253	1.1314	1.1457	1.1486	AveI D		1.171 8				7.7		10.0			
PCB-28	1.1256 1.3542	1.1253	1.1314	1.1457	1.1486	AveI D		1.171 8				7.7		10.0			
PCB-45	0.8115 0.8946	0.8159	0.8109	0.8283	0.7974	AveI D		0.826 4				4.2		10.0			
PCB-45/51	0.8115 0.8946	0.8159	0.8109	0.8283	0.7974	AveI D		0.826 4				4.2		10.0			
PCB-51	0.8115 0.8946	0.8159	0.8109	0.8283	0.7974	AveI D		0.826 4				4.2		10.0			
PCB-21	1.0181 1.2046	1.0637	1.0703	1.0575	1.0333	AveI D		1.074 6				6.2		10.0			
PCB-21/33	1.0181 1.2046	1.0637	1.0703	1.0575	1.0333	AveI D		1.074 6				6.2		10.0			
PCB-33	1.0181 1.2046	1.0637	1.0703	1.0575	1.0333	AveI D		1.074 6				6.2		10.0			
PCB-46	0.8136 0.7036	0.6810	0.7009	0.6996	0.6618	AveI D		0.710 1				7.5		10.0			
PCB-22	1.2054 1.2821	1.2400	1.1280	1.1635	1.1404	AveI D		1.193 2				5.1		10.0			
PCB-52	0.9248 0.9539	0.9077	0.9046	0.9453	0.8802	AveI D		0.919 4				3.0		10.0			
PCB-43	1.0757 1.0898	1.0358	1.0026	1.0276	0.9686	AveI D		1.033 3				4.4		10.0			
PCB-43/73	1.0757 1.0898	1.0358	1.0026	1.0276	0.9686	AveI D		1.033 3				4.4		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-73	1.0757 1.0898	1.0358	1.0026	1.0276	0.9686	AveI D		1.033 3				4.4		10.0			
PCB-36	1.0591 1.1622	1.1368	1.1155	1.1277	1.0411	AveI D		1.107 1				4.3		10.0			
PCB-49	1.1338 1.1552	1.0444	1.0314	1.0497	0.9966	AveI D		1.068 5				5.8		10.0			
PCB-49/69	1.1338 1.1552	1.0444	1.0314	1.0497	0.9966	AveI D		1.068 5				5.8		10.0			
PCB-69	1.1338 1.1552	1.0444	1.0314	1.0497	0.9966	AveI D		1.068 5				5.8		10.0			
PCB-39	1.1186 1.2687	1.1378	1.1592	1.1455	1.1190	AveI D		1.158 1				4.9		10.0			
PCB-48	0.8723 0.8658	0.8686	0.8264	0.8197	0.7866	AveI D		0.839 9				4.1		10.0			
PCB-104	1.0018 1.0650	0.9859	0.9705	1.0176	1.0114	AveI D		1.008 7				3.2		10.0			
PCB-44	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-44/47/65	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-47	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-65	0.9518 1.1484	0.9583	0.9216	0.9348	0.9237	AveI D		0.973 1				9.0		10.0			
PCB-38	1.0500 1.2340	1.0761	1.0375	1.0569	1.0513	AveI D		1.084 3				6.9		10.0			
PCB-96	1.1095 1.1878	1.0156	1.0739	1.0860	1.0913	AveI D		1.094 0				5.1		10.0			
PCB-59	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			
PCB-59/62/75	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			
PCB-62	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			
PCB-75	1.2022 1.4146	1.1424	1.0955	1.1254	1.1312	AveI D		1.185 3				9.9		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-42	0.8113 0.8321	0.8216	0.8199	0.8129	0.7600	AveI n		0.809 7				3.1		10.0			
PCB-35	1.1864 1.1946	1.0768	1.0997	1.1174	1.1032	AveI n		1.129 7				4.3		10.0			
PCB-40	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-40/41/71	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-41	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-71	0.9522 0.9521	0.8711	0.8523	0.8523	0.8380	AveI n		0.886 3				5.9		10.0			
PCB-37	1.2446 1.1977	1.1202	1.1033	1.1214	1.0739	AveI n		1.143 5				5.6		10.0			
PCB-64	1.2757 1.1950	1.2553	1.1305	1.1287	1.0802	AveI n		1.177 6				6.6		10.0			
PCB-72	1.1072 1.1582	1.0636	1.0877	1.1033	1.0456	AveI n		1.094 3				3.6		10.0			
PCB-103	0.8736 0.8978	0.8751	0.8648	0.8708	0.8628	AveI n		0.874 1				1.4		10.0			
PCB-68	1.1713 1.3485	1.2482	1.2729	1.2691	1.2098	AveI n		1.253 3				4.8		10.0			
PCB-94	0.8000 0.7483	0.8119	0.7717	0.7293	0.7229	AveI n		0.764 0				4.8		10.0			
PCB-57	1.0250 1.1565	1.1157	1.0598	1.0897	1.0441	AveI n		1.081 8				4.5		10.0			
PCB-95	0.8097 0.8296	0.7716	0.7842	0.8098	0.8147	AveI n		0.803 3				2.7		10.0			
PCB-58	1.2802 1.4828	1.2178	1.3141	1.3624	1.2948	AveI n		1.325 3				6.8		10.0			
PCB-100	0.8527 0.9163	0.8338	0.8062	0.8251	0.8232	AveI n		0.842 9				4.6		10.0			
PCB-93	0.8527 0.9163	0.8338	0.8062	0.8251	0.8232	AveI n		0.842 9				4.6		10.0			
PCB-93/100	0.8527 0.9163	0.8338	0.8062	0.8251	0.8232	AveI n		0.842 9				4.6		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-67	1.4870 1.5547	1.4071	1.3635	1.3760	1.3499	AveI n		1.423 n				5.7		10.0			
PCB-102	0.8256 0.8497	0.8156	0.8348	0.8202	0.8111	AveI n		0.826 2				1.7		10.0			
PCB-98	0.8256 0.8497	0.8156	0.8348	0.8202	0.8111	AveI n		0.826 2				1.7		10.0			
PCB-98/102	0.8256 0.8497	0.8156	0.8348	0.8202	0.8111	AveI n		0.826 2				1.7		10.0			
PCB-63	1.1333 1.1656	1.1761	1.1205	1.1003	1.0480	AveI n		1.124 n				4.2		10.0			
PCB-88	0.8366 0.8559	0.7460	0.7888	0.7860	0.7945	AveI n		0.801 3				4.9		10.0			
PCB-88/91	0.8366 0.8559	0.7460	0.7888	0.7860	0.7945	AveI n		0.801 3				4.9		10.0			
PCB-91	0.8366 0.8559	0.7460	0.7888	0.7860	0.7945	AveI n		0.801 3				4.9		10.0			
PCB-61	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-61/70/74/76	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-70	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-74	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-76	1.2363 1.4727	1.2221	1.2090	1.2135	1.2139	AveI n		1.261 2				8.2		10.0			
PCB-84	0.7253 0.7289	0.7880	0.7158	0.7118	0.7098	AveI n		0.729 9				4.0		10.0			
PCB-66	1.2356 1.3668	1.2319	1.2361	1.2632	1.2159	AveI n		1.258 3				4.4		10.0			
PCB-55	1.4498 1.4176	1.2365	1.2959	1.2975	1.2446	AveI n		1.323 6				6.8		10.0			
PCB-89	0.8919 0.7624	0.7464	0.7786	0.7510	0.7487	AveI n		0.779 8				7.2		10.0			
PCB-56	1.3935 1.2927	1.1650	1.1869	1.2090	1.1533	AveI n		1.233 4				7.5		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-121	1.2521 1.3582	1.3178	1.2898	1.2840	1.2764	AveI n		1.296 4				2.9		10.0			
PCB-60	1.1287 1.1681	1.2454	1.0506	1.0957	1.0497	AveI n		1.123 n				6.7		10.0			
PCB-92	0.8629 0.8532	0.9060	0.8272	0.8441	0.8340	AveI n		0.854 6				3.3		10.0			
PCB-80	1.3863 1.4151	1.3253	1.2723	1.2911	1.2555	AveI n		1.324 3				4.8		10.0			
PCB-155	0.8891 0.9694	0.9655	0.9454	0.9529	0.9441	AveI n		0.944 4				3.1		10.0			
PCB-152	0.9848 1.0543	0.9951	0.9825	0.9514	0.9689	AveI n		0.989 5				3.6		10.0			
PCB-101	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-113	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-90	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-90/101/113	0.9487 1.0650	0.9340	0.9026	0.9425	0.9371	AveI n		0.955 n				5.9		10.0			
PCB-150	0.9630 1.0549	1.0080	1.0261	1.0137	1.0137	AveI n		1.013 2				2.9		10.0			
PCB-136	1.0587 1.0659	1.0008	0.9487	0.9880	1.0074	AveI n		1.011 6				4.4		10.0			
PCB-83	0.8335 0.8647	0.8116	0.8385	0.8562	0.8265	AveI n		0.838 5				2.3		10.0			
PCB-83/99	0.8335 0.8647	0.8116	0.8385	0.8562	0.8265	AveI n		0.838 5				2.3		10.0			
PCB-99	0.8335 0.8647	0.8116	0.8385	0.8562	0.8265	AveI n		0.838 5				2.3		10.0			
PCB-112	1.4446 1.4376	1.4885	1.3872	1.3506	1.3581	AveI n		1.411 1				3.9		10.0			
PCB-145	0.9965 1.0100	0.9201	0.9636	0.9587	0.9620	AveI n		0.968 5				3.3		10.0			
PCB-109	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI n		1.047 3				8.9		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-119	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-125	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-86	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-86/87/97/109/119/125	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-87	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-97	1.0154 1.2319	1.0153	0.9760	1.0017	1.0433	AveI D		1.047 3				8.9		10.0			
PCB-79	1.4446 1.5780	1.5277	1.3489	1.3731	1.3487	AveI D		1.436 8				6.8		10.0			
PCB-78	1.3219 1.1568	1.1964	1.1351	1.1019	1.0589	AveI D		1.161 8				7.9		10.0			
PCB-116	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI D		1.040 8				4.5		10.0			
PCB-117	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI D		1.040 8				4.5		10.0			
PCB-85	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI D		1.040 8				4.5		10.0			
PCB-85/116/117	1.0570 1.1256	1.0304	0.9918	1.0219	1.0180	AveI D		1.040 8				4.5		10.0			
PCB-110	1.2019 1.2480	1.2270	1.1639	1.1561	1.1542	AveI D		1.191 9				3.4		10.0			
PCB-110/115	1.2019 1.2480	1.2270	1.1639	1.1561	1.1542	AveI D		1.191 9				3.4		10.0			
PCB-115	1.2019 1.2480	1.2270	1.1639	1.1561	1.1542	AveI D		1.191 9				3.4		10.0			
PCB-81	1.1198 1.0938	1.0960	1.0617	1.0764	1.0336	AveI D		1.080 2				2.8		10.0			
PCB-82	0.8343 0.8464	0.8471	0.8169	0.8239	0.8133	AveI D		0.830 3				1.8		10.0			
PCB-148	0.7646 0.8045	0.7251	0.7535	0.7521	0.7619	AveI D		0.760 3				3.4		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-77	1.1688 1.1358	1.1149	1.0365	1.0577	0.9878	AveI n		1.083 6				6.3		10.0			
PCB-111	1.1586 1.2376	1.3369	1.1635	1.1851	1.1934	AveI n		1.212 5				5.5		10.0			
PCB-135	0.7285 0.7672	0.7029	0.7063	0.7244	0.7240	AveI n		0.725 6				3.2		10.0			
PCB-135/151	0.7285 0.7672	0.7029	0.7063	0.7244	0.7240	AveI n		0.725 6				3.2		10.0			
PCB-151	0.7285 0.7672	0.7029	0.7063	0.7244	0.7240	AveI n		0.725 6				3.2		10.0			
PCB-120	1.5296 1.5558	1.4689	1.4158	1.4553	1.4322	AveI n		1.476 2				3.7		10.0			
PCB-154	0.7411 0.8586	0.8405	0.7996	0.8196	0.8180	AveI n		0.812 9				5.0		10.0			
PCB-144	0.8256 0.7980	0.7839	0.7628	0.7715	0.7696	AveI n		0.785 2				3.0		10.0			
PCB-147	0.9658 0.9768	0.8446	0.8442	0.8692	0.8693	AveI n		0.895 0				6.7		10.0			
PCB-147/149	0.9658 0.9768	0.8446	0.8442	0.8692	0.8693	AveI n		0.895 0				6.7		10.0			
PCB-149	0.9658 0.9768	0.8446	0.8442	0.8692	0.8693	AveI n		0.895 0				6.7		10.0			
PCB-134	0.8263 0.7959	0.8014	0.8010	0.7921	0.7634	AveI n		0.796 7				2.5		10.0			
PCB-134/143	0.8263 0.7959	0.8014	0.8010	0.7921	0.7634	AveI n		0.796 7				2.5		10.0			
PCB-143	0.8263 0.7959	0.8014	0.8010	0.7921	0.7634	AveI n		0.796 7				2.5		10.0			
PCB-108	1.1047 1.2848	1.1338	1.1073	1.1117	1.1009	AveI n		1.140 5				6.3		10.0			
PCB-108/124	1.1047 1.2848	1.1338	1.1073	1.1117	1.1009	AveI n		1.140 5				6.3		10.0			
PCB-124	1.1047 1.2848	1.1338	1.1073	1.1117	1.1009	AveI n		1.140 5				6.3		10.0			
PCB-139	0.8698 0.9549	0.8683	0.8422	0.8657	0.8604	AveI n		0.876 9				4.5		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-139/140	0.8698 0.9549	0.8683	0.8422	0.8657	0.8604	AveI n		0.876 9				4.5		10.0			
PCB-140	0.8698 0.9549	0.8683	0.8422	0.8657	0.8604	AveI n		0.876 9				4.5		10.0			
PCB-107	1.2904 1.2477	1.1149	1.2342	1.2247	1.1606	AveI n		1.212 1				5.2		10.0			
PCB-131	++++ 0.7939	0.7383	0.7244	0.7426	0.7522	AveI n		0.750 3				3.5		10.0			
PCB-123	1.0853 1.1357	1.1455	0.9540	1.0597	1.0534	AveI n		1.072 2				6.5		10.0			
PCB-106	1.1069 1.1546	1.0523	1.0740	1.0674	1.0482	AveI n		1.083 9				3.7		10.0			
PCB-142	0.7103 0.8062	0.7184	0.7532	0.7662	0.7499	AveI n		0.750 7				4.6		10.0			
PCB-118	1.2183 1.2440	1.2619	1.1653	1.1919	1.1519	AveI n		1.205 5				3.6		10.0			
PCB-132	0.8263 0.7367	0.7289	0.7517	0.7328	0.7172	AveI n		0.748 9				5.3		10.0			
PCB-122	0.9558 0.9670	1.0294	0.8926	0.9780	0.9174	AveI n		0.956 7				5.0		10.0			
PCB-114	1.0610 1.1325	1.1067	1.0582	1.0904	1.0562	AveI n		1.084 2				2.9		10.0			
PCB-188	1.1156 1.1562	1.1704	1.1401	1.1253	1.1021	AveI n		1.135 0				2.3		10.0			
PCB-133	0.7310 0.8077	0.8763	0.8206	0.7984	0.8233	AveI n		0.809 6				5.8		10.0			
PCB-179	1.5749 1.4293	1.4195	1.3854	1.3901	1.3662	AveI n		1.427 6				5.3		10.0			
PCB-165	0.9540 1.0449	1.0900	1.0214	1.0299	1.0082	AveI n		1.024 7				4.4		10.0			
PCB-105	1.2867 1.2230	1.1805	1.1299	1.1716	1.1358	AveI n		1.187 9				5.0		10.0			
PCB-146	0.9491 1.0049	0.9807	0.9470	0.9459	0.9546	AveI n		0.963 7				2.5		10.0			
PCB-184	1.2839 1.4655	1.3652	1.3444	1.3829	1.3613	AveI n		1.367 2				4.3		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.



FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-161	1.0600 1.1917	1.1649	1.0974	1.1477	1.1109	AveI n		1.128 8				4.3		10.0			
PCB-176	1.3664 1.2480	1.1518	1.2043	1.2425	1.1853	AveI n		1.233 1				6.0		10.0			
PCB-153	1.0508 1.1858	1.0219	1.1173	1.1001	1.0868	AveI n		1.093 8				5.2		10.0			
PCB-153/168	1.0508 1.1858	1.0219	1.1173	1.1001	1.0868	AveI n		1.093 8				5.2		10.0			
PCB-168	1.0508 1.1858	1.0219	1.1173	1.1001	1.0868	AveI n		1.093 8				5.2		10.0			
PCB-141	0.9407 0.8523	0.9151	0.8464	0.8514	0.8472	AveI n		0.875 5				4.7		10.0			
PCB-186	1.5061 1.5480	1.3932	1.4313	1.5084	1.4554	AveI n		1.473 7				3.9		10.0			
PCB-130	0.7258 0.6913	0.7312	0.6983	0.6982	0.6859	AveI n		0.705 1				2.7		10.0			
PCB-127	1.1110 1.1760	1.1837	1.0836	1.1718	1.1102	AveI n		1.139 4				3.8		10.0			
PCB-137	0.7492 0.7964	0.7547	0.7964	0.8113	0.7519	AveI n		0.776 7				3.6		10.0			
PCB-164	1.0491 1.0752	1.0276	1.0023	1.0331	1.0422	AveI n		1.038 2				2.3		10.0			
PCB-129	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-129/138/160/163	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-138	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-160	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-163	0.9300 1.0439	0.9279	0.9211	0.9292	0.9264	AveI n		0.946 4				5.1		10.0			
PCB-158	1.3613 1.3135	1.3421	1.2753	1.3085	1.2656	AveI n		1.311 0				2.8		10.0			
PCB-178	0.8513 0.9163	0.9050	0.8951	0.9086	0.8915	AveI n		0.894 6				2.6		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-175	1.0419 0.9670	0.9241	0.8934	0.9568	0.9313	AveI n		0.952 4				5.3		10.0			
PCB-126	0.9955 1.1577	1.0940	1.0804	1.1528	1.1051	AveI n		1.097 6				5.4		10.0			
PCB-128	0.9472 1.0957	0.9282	0.9352	0.9992	0.9922	AveI n		0.982 9				6.4		10.0			
PCB-128/166	0.9472 1.0957	0.9282	0.9352	0.9992	0.9922	AveI n		0.982 9				6.4		10.0			
PCB-166	0.9472 1.0957	0.9282	0.9352	0.9992	0.9922	AveI n		0.982 9				6.4		10.0			
PCB-187	1.0455 1.1457	1.1219	1.0756	1.1255	1.0967	AveI n		1.101 8				3.3		10.0			
PCB-182	0.8297 0.9568	0.8873	0.9545	0.9855	0.9345	AveI n		0.924 7				6.1		10.0			
PCB-183	1.0823 0.9576	1.0673	0.9173	0.9521	0.9184	AveI n		0.982 5				7.5		10.0			
PCB-183/185	1.0823 0.9576	1.0673	0.9173	0.9521	0.9184	AveI n		0.982 5				7.5		10.0			
PCB-185	1.0823 0.9576	1.0673	0.9173	0.9521	0.9184	AveI n		0.982 5				7.5		10.0			
PCB-174	1.0171 1.0197	0.8541	0.9397	0.9984	0.9560	AveI n		0.964 2				6.5		10.0			
PCB-159	1.3182 1.4701	1.4065	1.3956	1.3722	1.3512	AveI n		1.385 6				3.8		10.0			
PCB-162	1.2486 1.2460	1.3071	1.2846	1.2413	1.2150	AveI n		1.257 1				2.6		10.0			
PCB-177	1.0068 0.9782	0.9833	0.9620	0.9805	0.9528	AveI n		0.977 3				1.9		10.0			
PCB-202	0.9147 1.0834	1.0007	1.0393	1.1166	1.0605	AveI n		1.035 9				6.9		10.0			
PCB-167	1.1252 1.1500	1.0891	1.1410	1.1065	1.0835	AveI n		1.115 9				2.4		10.0			
PCB-181	0.9642 0.9727	1.0238	0.8822	0.9386	0.9218	AveI n		0.950 5				5.1		10.0			
PCB-171	1.0178 0.9405	1.0283	0.8449	0.8944	0.8760	AveI n		0.933 6				8.1		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-171/173	1.0178 0.9405	1.0283	0.8449	0.8944	0.8760	AveI D		0.933 6				8.1		10.0			
PCB-173	1.0178 0.9405	1.0283	0.8449	0.8944	0.8760	AveI D		0.933 6				8.1		10.0			
PCB-201	0.9271 0.9883	0.9933	0.9517	1.0177	0.9741	AveI D		0.975 4				3.3		10.0			
PCB-156	1.0318 1.1726	1.1406	1.1084	1.1139	1.0952	AveI D		1.110 4				4.3		10.0			
PCB-156/157	1.0318 1.1726	1.1406	1.1084	1.1139	1.0952	AveI D		1.110 4				4.3		10.0			
PCB-157	1.0318 1.1726	1.1406	1.1084	1.1139	1.0952	AveI D		1.110 4				4.3		10.0			
PCB-204	1.0650 1.0483	1.0488	1.0205	1.0780	1.0306	AveI D		1.048 5				2.0		10.0			
PCB-197	1.2289 1.1291	1.1621	1.0930	1.1741	1.0875	AveI D		1.145 8				4.7		10.0			
PCB-200	0.9228 1.0127	1.0396	1.0401	1.0354	0.9924	AveI D		1.007 2				4.5		10.0			
PCB-172	0.8899 0.8314	0.8689	0.8197	0.8741	0.8273	AveI D		0.851 9				3.4		10.0			
PCB-192	1.2465 1.3882	1.3831	1.3289	1.3991	1.3294	AveI D		1.345 9				4.3		10.0			
PCB-180	1.1268 1.2128	1.2009	1.1371	1.1877	1.1402	AveI D		1.167 6				3.2		10.0			
PCB-180/193	1.1268 1.2128	1.2009	1.1371	1.1877	1.1402	AveI D		1.167 6				3.2		10.0			
PCB-193	1.1268 1.2128	1.2009	1.1371	1.1877	1.1402	AveI D		1.167 6				3.2		10.0			
PCB-191	1.1859 1.3248	1.3435	1.2644	1.3367	1.2793	AveI D		1.289 1				4.6		10.0			
PCB-170	1.2183 1.1842	1.2101	1.1713	1.2049	1.1303	AveI D		1.186 5				2.7		10.0			
PCB-190	1.3507 1.3369	1.3732	1.3236	1.3336	1.2755	AveI D		1.332 2				2.5		10.0			
PCB-169	1.1960 1.1900	1.1091	1.1548	1.1930	1.1341	AveI D		1.162 8				3.1		10.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-198	0.8819 0.8966	0.8635	0.8456	0.8829	0.8482	AveI n		0.869 8				2.4		10.0			
PCB-198/199	0.8819 0.8966	0.8635	0.8456	0.8829	0.8482	AveI n		0.869 8				2.4		10.0			
PCB-199	0.8819 0.8966	0.8635	0.8456	0.8829	0.8482	AveI n		0.869 8				2.4		10.0			
PCB-196	0.7745 0.7649	0.8087	0.7819	0.7962	0.7576	AveI n		0.780 6				2.5		10.0			
PCB-203	0.9457 0.9311	0.8842	0.9266	0.9632	0.9244	AveI n		0.929 2				2.8		10.0			
PCB-208	1.1091 1.1453	1.1787	1.1650	1.1300	1.0966	AveI n		1.137 4				2.8		10.0			
PCB-195	0.7404 0.8735	0.8795	0.8276	0.8233	0.8136	AveI n		0.826 3				6.1		10.0			
PCB-189	0.9373 1.0020	0.9455	0.9636	0.9788	0.9527	AveI n		0.963 3				2.5		10.0			
PCB-207	1.5361 1.3709	1.3685	1.3439	1.3392	1.2949	AveI n		1.375 6				6.1		10.0			
PCB-194	1.0329 0.9836	0.9991	0.9368	0.9517	0.9369	AveI n		0.973 5				4.0		10.0			
PCB-205	1.0922 1.1256	1.1124	1.0652	1.0742	1.0570	AveI n		1.087 8				2.5		10.0			
PCB-206	1.5800 1.2761	1.3742	1.2635	1.2743	1.2393	AveI n		1.334 6				9.7		10.0			
PCB-209	1.0976 1.1141	1.0962	1.1180	1.1025	1.0739	AveI n		1.100 4				1.4		10.0			
PCB-1L	1.6566 1.5908	1.6089	1.5886	1.6421	1.5780	Ave		1.610 8				2.0		20.0			
PCB-3L	1.5953 1.6239	1.5794	1.5767	1.5834	1.5761	Ave		1.589 1				1.2		20.0			
PCB-4L	0.6664 0.6398	0.6529	0.6327	0.6584	0.6350	Ave		0.647 5				2.1		20.0			
PCB-19L	0.6231 0.6159	0.6466	0.6417	0.6300	0.6140	Ave		0.628 5				2.1		20.0			
PCB-15L	1.0704 1.1315	1.0579	1.0555	1.0650	1.0933	Ave		1.078 9				2.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-54L	0.5699 0.5412	0.5686	0.5307	0.5781	0.5489	Ave		0.556 2				3.4		20.0			
PCB-104L	1.2444 1.1444	1.2293	1.2593	1.2347	1.1843	Ave		1.216 1				3.6		20.0			
PCB-37L	0.8651 0.8981	0.8778	0.8586	0.8698	0.8801	Ave		0.874 9				1.6		20.0			
PCB-155L	1.1312 0.9905	1.0966	1.1397	1.1068	1.0459	Ave		1.085 1				5.2		20.0			
PCB-81L	1.2317 1.3290	1.2156	1.2247	1.2302	1.2505	Ave		1.247 0				3.4		20.0			
PCB-77L	1.3180 1.3199	1.2901	1.3060	1.3076	1.3854	Ave		1.321 2				2.5		20.0			
PCB-123L	0.9681 1.0191	0.9224	0.9932	0.9567	0.9795	Ave		0.973 1				3.4		20.0			
PCB-118L	1.0043 1.0158	0.9508	1.0600	1.0164	1.0137	Ave		1.010 2				3.5		20.0			
PCB-114L	0.9805 1.0251	0.9866	1.0002	0.9802	0.9966	Ave		0.994 9				1.7		20.0			
PCB-188L	1.2769 1.3367	1.2959	1.3275	1.3235	1.3195	Ave		1.313 3				1.7		20.0			
PCB-105L	0.9500 0.9623	0.9252	0.9683	0.9499	0.9530	Ave		0.951 4				1.6		20.0			
PCB-126L	0.9296 0.9915	0.8901	0.9531	0.9453	0.9536	Ave		0.943 9				3.5		20.0			
PCB-202L	1.0089 0.9521	1.0043	1.0139	0.9551	0.9566	Ave		0.981 8				3.1		20.0			
PCB-167L	1.2926 1.2203	1.2777	1.2672	1.2630	1.2226	Ave		1.257 2				2.3		20.0			
PCB-156L	1.2170 1.1817	1.2310	1.2435	1.2168	1.1737	Ave		1.210 6				2.3		20.0			
PCB-156L/157L	1.2170 1.1817	1.2310	1.2435	1.2168	1.1737	Ave		1.210 6				2.3		20.0			
PCB-157L	1.2170 1.1817	1.2310	1.2435	1.2168	1.1737	Ave		1.210 6				2.3		20.0			
PCB-170L	0.8549 0.7912	0.8418	0.8681	0.8351	0.8262	Ave		0.836 2				3.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-169L	1.3034 1.2180	1.2624	1.2196	1.2352	1.2245	Ave		1.243 9				2.7		20.0			
PCB-208L	0.9436 0.9729	0.9445	0.9572	0.9529	0.9744	Ave		0.957 6				1.4		20.0			
PCB-189L	1.4252 1.4773	1.4471	1.4284	1.4364	1.4341	Ave		1.441 4				1.3		20.0			
PCB-205L	1.1647 1.1799	1.1834	1.1745	1.1892	1.1796	Ave		1.178 6				0.7		20.0			
PCB-206L	0.6918 0.6949	0.6861	0.7012	0.6995	0.6947	Ave		0.694 7				0.8		20.0			
PCB-209L	0.6641 0.6555	0.6610	0.6824	0.6737	0.6647	Ave		0.666 9				1.4		20.0			
PCB-8L			1.3272	1.1709	1.1217	AveI n		1.206 6				8.9		20.0			
PCB-28L			1.2181	0.9873	0.9428	Ave		1.049 4				14.1		20.0			
PCB-95L			0.7435	0.7172	0.7047	AveI n		0.721 8				2.7		20.0			
PCB-79L			1.0367	0.9978	0.9710	AveI n		1.001 8				3.3		20.0			
PCB-111L			1.5745	1.3005	1.2347	Ave		1.369 9				13.2		20.0			
PCB-153L			1.1123	0.8406	0.7979	AveI n		0.916 9				18.6		20.0			
PCB-178L			1.1585	0.9861	0.9494	Ave		1.031 3				10.8		20.0			
PCB-159L	0.4887 0.5115	0.5173	0.5067	0.5265	0.5202	AveI n		0.511 8				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87130/1	d2240531pi1a.d
Level 2	IC 140-87130/2	d2240531pi2a.d
Level 3	IC 140-87130/3	d2240531pi3.d
Level 4	IC 140-87130/4	d2240531pi4.d
Level 5	IC 140-87130/5	d2240531pi5.d
Level 6	IC 140-87130/6	d2240531pi6.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1		AveID	87624 +++++	167653	796059	8260359	68569399	0.500 +++++	1.00	5.00	50.0	400
PCB-2		AveID	82442 353084495	152137	768397	7886042	67117936	0.500 2000	1.00	5.00	50.0	400
PCB-3		AveID	87263 360356023	155451	799957	8044849	67267765	0.500 2000	1.00	5.00	50.0	400
PCB-4		AveID	36374 152709290	71281	337353	3479874	27890333	0.500 2000	1.00	5.00	50.0	400
PCB-10		AveID	48502 219606512	90939	471835	4792674	38655568	0.500 2000	1.00	5.00	50.0	400
PCB-9		AveID	51501 234989711	101769	514126	5083530	42181873	0.500 2000	1.00	5.00	50.0	400
PCB-7		AveID	58157 231331814	99790	476841	4950093	41182455	0.500 2000	1.00	5.00	50.0	400
PCB-6		AveID	62834 255647445	108771	517825	5408103	44979638	0.500 2000	1.00	5.00	50.0	400
PCB-5		AveID	51519 222818417	93073	457479	4844644	40020538	0.500 2000	1.00	5.00	50.0	400
PCB-8		AveID	61977 268244897	108520	552662	5621585	47031816	0.500 2000	1.00	5.00	50.0	400
PCB-19		AveID	27248 94419028	37931	215976	2152324	18011092	0.500 2000	1.00	5.00	50.0	400
PCB-14		AveID	55107 231080321	95706	492912	5066034	41013941	0.500 2000	1.00	5.00	50.0	400
PCB-18		AveID	63024 272933390	119625	588680	6054511	49683955	1.00 4000	2.00	10.0	100	800
PCB-18/30		AveID	63024 272933390	119625	588680	6054511	49683955	1.00 4000	2.00	10.0	100	800
PCB-30		AveID	63024 272933390	119625	588680	6054511	49683955	1.00 4000	2.00	10.0	100	800
PCB-11		AveID	53494 216275260	83627	452818	4598736	38153224	0.500 2000	1.00	5.00	50.0	400

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-17		AveID	23167 91948427	43052	206164	2122247	17339157	0.500 2000	1.00	5.00	50.0	400
PCB-12		AveID	97175 468162119	181643	943457	9487445	80149527	1.00 4000	2.00	10.0	100	800
PCB-12/13		AveID	97175 468162119	181643	943457	9487445	80149527	1.00 4000	2.00	10.0	100	800
PCB-13		AveID	97175 468162119	181643	943457	9487445	80149527	1.00 4000	2.00	10.0	100	800
PCB-27		AveID	30334 145107554	61773	310541	3179572	26360662	0.500 2000	1.00	5.00	50.0	400
PCB-24		AveID	30894 131161059	55539	276459	2814319	23939751	0.500 2000	1.00	5.00	50.0	400
PCB-16		AveID	20922 85816817	36402	189210	1959828	16041877	0.500 2000	1.00	5.00	50.0	400
PCB-15		AveID	63884 269724618	113904	552286	5621988	47283812	0.500 2000	1.00	5.00	50.0	400
PCB-54		AveID	17905 84275390	39894	187801	2056772	16256949	0.500 2000	1.00	5.00	50.0	400
PCB-32		AveID	34215 140138189	60227	310058	3076908	25877431	0.500 2000	1.00	5.00	50.0	400
PCB-34		AveID	81792 373345873	145822	741948	7616885	63733574	0.500 2000	1.00	5.00	50.0	400
PCB-23		AveID	78676 352538213	148152	710024	7186368	59373148	0.500 2000	1.00	5.00	50.0	400
PCB-26		AveID	157772 788218448	296674	1426183	14701213	130294664	1.00 4000	2.00	10.0	100	800
PCB-26/29		AveID	157772 788218448	296674	1426183	14701213	130294664	1.00 4000	2.00	10.0	100	800
PCB-29		AveID	157772 788218448	296674	1426183	14701213	130294664	1.00 4000	2.00	10.0	100	800
PCB-25		AveID	97778 436326451	160869	798213	8444656	71143057	0.500 2000	1.00	5.00	50.0	400
PCB-50		AveID	96228 424571971	160495	797957	8406058	70687479	1.00 4000	2.00	10.0	100	800
PCB-50/53		AveID	96228 424571971	160495	797957	8406058	70687479	1.00 4000	2.00	10.0	100	800
PCB-53		AveID	96228 424571971	160495	797957	8406058	70687479	1.00 4000	2.00	10.0	100	800
PCB-31		AveID	84854 378421846	160841	744974	7458669	63731167	0.500 2000	1.00	5.00	50.0	400
PCB-20		AveID	163294	298348	1483821	15507992	135356691	1.00	2.00	10.0	100	800



FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			842454191					4000				
PCB-20/28		AveID	163294 842454191	298348	1483821	15507992	135356691	1.00 4000	2.00	10.0	100	800
PCB-28		AveID	163294 842454191	298348	1483821	15507992	135356691	1.00 4000	2.00	10.0	100	800
PCB-45		AveID	86958 401693892	157715	788555	8278212	69485788	1.00 4000	2.00	10.0	100	800
PCB-45/51		AveID	86958 401693892	157715	788555	8278212	69485788	1.00 4000	2.00	10.0	100	800
PCB-51		AveID	86958 401693892	157715	788555	8278212	69485788	1.00 4000	2.00	10.0	100	800
PCB-21		AveID	147710 749389733	281992	1403700	14314146	121766982	1.00 4000	2.00	10.0	100	800
PCB-21/33		AveID	147710 749389733	281992	1403700	14314146	121766982	1.00 4000	2.00	10.0	100	800
PCB-33		AveID	147710 749389733	281992	1403700	14314146	121766982	1.00 4000	2.00	10.0	100	800
PCB-46		AveID	43592 157969398	65825	340774	3495887	28834506	0.500 2000	1.00	5.00	50.0	400
PCB-22		AveID	87442 398788093	164376	739669	7874512	67196694	0.500 2000	1.00	5.00	50.0	400
PCB-52		AveID	49547 214166805	87733	439829	4723711	38354033	0.500 2000	1.00	5.00	50.0	400
PCB-43		AveID	115263 489361192	200228	974936	10270296	84403637	1.00 4000	2.00	10.0	100	800
PCB-43/73		AveID	115263 489361192	200228	974936	10270296	84403637	1.00 4000	2.00	10.0	100	800
PCB-73		AveID	115263 489361192	200228	974936	10270296	84403637	1.00 4000	2.00	10.0	100	800
PCB-36		AveID	76826 361500062	150690	731454	7632212	61342563	0.500 2000	1.00	5.00	50.0	400
PCB-49		AveID	121491 518749137	201895	1002960	10490769	86848614	1.00 4000	2.00	10.0	100	800
PCB-49/69		AveID	121491 518749137	201895	1002960	10490769	86848614	1.00 4000	2.00	10.0	100	800
PCB-69		AveID	121491 518749137	201895	1002960	10490769	86848614	1.00 4000	2.00	10.0	100	800
PCB-39		AveID	81144 394634471	150829	760165	7752224	65934116	0.500 2000	1.00	5.00	50.0	400
PCB-48		AveID	46735 194390518	83950	401794	4096041	34271968	0.500 2000	1.00	5.00	50.0	400

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-104		AveID	34754 148594312	61528	306050	3284431	26991793	0.500 2000	1.00	5.00	50.0	400
PCB-44		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-44/47/65		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-47		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-65		AveID	152988 773503972	277857	1344248	14013306	120748315	1.50 6000	3.00	15.0	150	1200
PCB-38		AveID	76168 383822577	142649	680342	7153021	61948482	0.500 2000	1.00	5.00	50.0	400
PCB-96		AveID	38490 165718292	63380	338671	3505288	29124757	0.500 2000	1.00	5.00	50.0	400
PCB-59		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-59/62/75		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-62		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-75		AveID	193231 952848187	331263	1597958	16871670	147870904	1.50 6000	3.00	15.0	150	1200
PCB-42		AveID	43465 186831580	79410	398654	4062353	33116229	0.500 2000	1.00	5.00	50.0	400
PCB-35		AveID	86063 371576451	142742	721094	7562291	65004472	0.500 2000	1.00	5.00	50.0	400
PCB-40		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-40/41/71		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-41		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-71		AveID	153053 641280083	252584	1243102	12777370	109543755	1.50 6000	3.00	15.0	150	1200
PCB-37		AveID	90285 372528859	148485	723492	7589418	63280259	0.500 2000	1.00	5.00	50.0	400
PCB-64		AveID	68347 268312321	121326	549661	5640018	47066920	0.500 2000	1.00	5.00	50.0	400
PCB-72		AveID	59320 260036448	102800	528848	5513402	45559809	0.500 2000	1.00	5.00	50.0	400
PCB-103		AveID	30305	54610	272723	2810660	23026262	0.500	1.00	5.00	50.0	400

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			125264432					2000				
PCB-68		AveID	62752 302767134	120639	618865	6342042	52714819	0.500 2000	1.00	5.00	50.0	400
PCB-94		AveID	27753 104404112	50670	243354	2353932	19293687	0.500 2000	1.00	5.00	50.0	400
PCB-57		AveID	54918 259652587	107838	515271	5445573	45493698	0.500 2000	1.00	5.00	50.0	400
PCB-95		AveID	28089 115750524	48155	247318	2613771	21743452	0.500 2000	1.00	5.00	50.0	400
PCB-58		AveID	68587 332927040	117702	638910	6808166	56416890	0.500 2000	1.00	5.00	50.0	400
PCB-100		AveID	59164 255671436	104065	508477	5326508	43937859	1.00 4000	2.00	10.0	100	800
PCB-93		AveID	59164 255671436	104065	508477	5326508	43937859	1.00 4000	2.00	10.0	100	800
PCB-93/100		AveID	59164 255671436	104065	508477	5326508	43937859	1.00 4000	2.00	10.0	100	800
PCB-67		AveID	79670 349063048	136003	662955	6875936	58816773	0.500 2000	1.00	5.00	50.0	400
PCB-102		AveID	57283 237097257	101797	526504	5294749	43293553	1.00 4000	2.00	10.0	100	800
PCB-98		AveID	57283 237097257	101797	526504	5294749	43293553	1.00 4000	2.00	10.0	100	800
PCB-98/102		AveID	57283 237097257	101797	526504	5294749	43293553	1.00 4000	2.00	10.0	100	800
PCB-63		AveID	60720 261710211	113672	544766	5498511	45663130	0.500 2000	1.00	5.00	50.0	400
PCB-88		AveID	58044 238830684	93115	497525	5073604	42407684	1.00 4000	2.00	10.0	100	800
PCB-88/91		AveID	58044 238830684	93115	497525	5073604	42407684	1.00 4000	2.00	10.0	100	800
PCB-91		AveID	58044 238830684	93115	497525	5073604	42407684	1.00 4000	2.00	10.0	100	800
PCB-61		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-61/70/74/76		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-70		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-74		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-76		AveID	264950 1322616466	472477	2351306	24255009	211563594	2.00 8000	4.00	20.0	200	1600
PCB-84		AveID	25161 101701980	49178	225737	2297413	18942616	0.500 2000	1.00	5.00	50.0	400
PCB-66		AveID	66199 306877309	119065	600993	6312222	52981003	0.500 2000	1.00	5.00	50.0	400
PCB-55		AveID	77673 318274904	119512	630084	6483526	54230284	0.500 2000	1.00	5.00	50.0	400
PCB-89		AveID	30940 106371354	46581	245536	2424086	19980724	0.500 2000	1.00	5.00	50.0	400
PCB-56		AveID	74659 290239949	112603	577077	6041547	50251634	0.500 2000	1.00	5.00	50.0	400
PCB-121		AveID	43439 189494866	82240	406765	4144482	34064929	0.500 2000	1.00	5.00	50.0	400
PCB-60		AveID	60472 262262219	120369	510799	5475280	45739750	0.500 2000	1.00	5.00	50.0	400
PCB-92		AveID	29937 119034801	56541	260863	2724348	22258079	0.500 2000	1.00	5.00	50.0	400
PCB-80		AveID	74270 317715187	128092	618593	6451950	54703996	0.500 2000	1.00	5.00	50.0	400
PCB-155		AveID	28040 117062772	53749	269852	2757196	22251730	0.500 2000	1.00	5.00	50.0	400
PCB-152		AveID	31058 127316142	55399	280445	2752865	22836429	0.500 2000	1.00	5.00	50.0	400
PCB-101		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-113		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-90		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-90/101/113		AveID	98736 445746570	174859	853991	9126697	75031128	1.50 6000	3.00	15.0	150	1200
PCB-150		AveID	30371 127390982	56112	292889	2933125	23890856	0.500 2000	1.00	5.00	50.0	400
PCB-136		AveID	33387 128715901	55716	270798	2858801	23743749	0.500 2000	1.00	5.00	50.0	400
PCB-83		AveID	57832 241281713	101299	528892	5527064	44113984	1.00 4000	2.00	10.0	100	800
PCB-83/99		AveID	57832 241281713	101299	528892	5527064	44113984	1.00 4000	2.00	10.0	100	800
PCB-99		AveID	57832	101299	528892	5527064	44113984	1.00	2.00	10.0	100	800

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			241281713					4000				
PCB-112		AveID	50114 200578005	92894	437482	4359398	36244741	0.500 2000	1.00	5.00	50.0	400
PCB-145		AveID	31426 121971700	51222	275033	2773933	22672411	0.500 2000	1.00	5.00	50.0	400
PCB-109		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-119		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-125		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-86		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-86/87/97/109/119/125		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-87		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-97		AveID	211356 1031232134	380172	1846778	19399175	167069124	3.00 12000	6.00	30.0	300	2400
PCB-79		AveID	77395 354295498	147654	655831	6861599	58766091	0.500 2000	1.00	5.00	50.0	400
PCB-78		AveID	70824 259722209	115640	551876	5506314	46136888	0.500 2000	1.00	5.00	50.0	400
PCB-116		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-117		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-85		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-85/116/117		AveID	110009 471144048	192911	938339	9894792	81508464	1.50 6000	3.00	15.0	150	1200
PCB-110		AveID	83392 348252734	153152	734092	7463251	61605039	1.00 4000	2.00	10.0	100	800
PCB-110/115		AveID	83392 348252734	153152	734092	7463251	61605039	1.00 4000	2.00	10.0	100	800
PCB-115		AveID	83392 348252734	153152	734092	7463251	61605039	1.00 4000	2.00	10.0	100	800
PCB-81		AveID	57961 246419766	102785	499582	5214743	42731408	0.500 2000	1.00	5.00	50.0	400
PCB-82		AveID	28943 118090307	52864	257633	2659391	21705824	0.500 2000	1.00	5.00	50.0	400

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-148		AveID	24113 97145990	40368	215061	2176255	17957394	0.500 2000	1.00	5.00	50.0	400
PCB-77		AveID	64742 254122136	110963	520129	5446719	45244571	0.500 2000	1.00	5.00	50.0	400
PCB-111		AveID	40194 172673938	83431	366927	3825096	31849869	0.500 2000	1.00	5.00	50.0	400
PCB-135		AveID	45950 185302824	78265	403202	4192182	34125616	1.00 4000	2.00	10.0	100	800
PCB-135/151		AveID	45950 185302824	78265	403202	4192182	34125616	1.00 4000	2.00	10.0	100	800
PCB-151		AveID	45950 185302824	78265	403202	4192182	34125616	1.00 4000	2.00	10.0	100	800
PCB-120		AveID	53063 217057638	91670	446498	4697232	38221427	0.500 2000	1.00	5.00	50.0	400
PCB-154		AveID	23372 103679991	46790	228222	2371495	19278459	0.500 2000	1.00	5.00	50.0	400
PCB-144		AveID	26036 96362038	43641	217725	2232331	18139372	0.500 2000	1.00	5.00	50.0	400
PCB-147		AveID	85550 357302891	137928	675152	7067120	59645820	1.00 4000	2.00	10.0	100	800
PCB-147/149		AveID	85550 357302891	137928	675152	7067120	59645820	1.00 4000	2.00	10.0	100	800
PCB-149		AveID	85550 357302891	137928	675152	7067120	59645820	1.00 4000	2.00	10.0	100	800
PCB-134		AveID	73190 291141501	130881	640616	6440496	52378003	1.00 4000	2.00	10.0	100	800
PCB-134/143		AveID	73190 291141501	130881	640616	6440496	52378003	1.00 4000	2.00	10.0	100	800
PCB-143		AveID	73190 291141501	130881	640616	6440496	52378003	1.00 4000	2.00	10.0	100	800
PCB-108		AveID	114382 576858278	208570	1034062	10706077	91375734	1.00 4000	2.00	10.0	100	800
PCB-108/124		AveID	114382 576858278	208570	1034062	10706077	91375734	1.00 4000	2.00	10.0	100	800
PCB-124		AveID	114382 576858278	208570	1034062	10706077	91375734	1.00 4000	2.00	10.0	100	800
PCB-139		AveID	77045 349280537	141796	673528	7038694	59038438	1.00 4000	2.00	10.0	100	800
PCB-139/140		AveID	77045 349280537	141796	673528	7038694	59038438	1.00 4000	2.00	10.0	100	800
PCB-140		AveID	77045	141796	673528	7038694	59038438	1.00	2.00	10.0	100	800

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			349280537					4000				
PCB-107		AveID	66807 280088284	102545	576281	5897415	48169388	0.500 2000	1.00	5.00	50.0	400
PCB-131		AveID	+++++ 145204904	60287	289665	3018928	25806641	+++++ 2000	1.00	5.00	50.0	400
PCB-123		AveID	56282 259083255	103937	444649	5033992	43726655	0.500 2000	1.00	5.00	50.0	400
PCB-106		AveID	57304 259205947	96794	501472	5140106	43503164	0.500 2000	1.00	5.00	50.0	400
PCB-142		AveID	31461 147452709	58658	301166	3115155	25727292	0.500 2000	1.00	5.00	50.0	400
PCB-118		AveID	65547 282900049	118026	579609	6016008	49487841	0.500 2000	1.00	5.00	50.0	400
PCB-132		AveID	36598 134732483	59523	300578	2979191	24603976	0.500 2000	1.00	5.00	50.0	400
PCB-122		AveID	49485 217083178	94688	416752	4709445	38072113	0.500 2000	1.00	5.00	50.0	400
PCB-114		AveID	55723 259907186	107408	496695	5307527	44610183	0.500 2000	1.00	5.00	50.0	400
PCB-188		AveID	39693 172058230	77076	379875	3706640	30886057	0.500 2000	1.00	5.00	50.0	400
PCB-133		AveID	32377 147730024	71556	328133	3245992	28247093	0.500 2000	1.00	5.00	50.0	400
PCB-179		AveID	46777 169294763	77102	381743	3733944	31130650	0.500 2000	1.00	5.00	50.0	400
PCB-165		AveID	42251 191105968	89004	408419	4186901	34588489	0.500 2000	1.00	5.00	50.0	400
PCB-105		AveID	65478 263476320	107441	513401	5526391	45872125	0.500 2000	1.00	5.00	50.0	400
PCB-146		AveID	42036 183787905	80078	378659	3845405	32748351	0.500 2000	1.00	5.00	50.0	400
PCB-184		AveID	38134 173580025	74149	370448	3714498	31018294	0.500 2000	1.00	5.00	50.0	400
PCB-161		AveID	46946 217946430	95121	438810	4666072	38113824	0.500 2000	1.00	5.00	50.0	400
PCB-176		AveID	40584 147820845	62562	331851	3337458	27007633	0.500 2000	1.00	5.00	50.0	400
PCB-153		AveID	93081 433749157	166883	893507	8944568	74572114	1.00 4000	2.00	10.0	100	800
PCB-153/168		AveID	93081 433749157	166883	893507	8944568	74572114	1.00 4000	2.00	10.0	100	800

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-168		AveID	93081 433749157	166883	893507	8944568	74572114	1.00 4000	2.00	10.0	100	800
PCB-141		AveID	41664 155876662	74724	338462	3461353	29064533	0.500 2000	1.00	5.00	50.0	400
PCB-186		AveID	44732 183358035	75669	394382	4051516	33163682	0.500 2000	1.00	5.00	50.0	400
PCB-130		AveID	32146 126435560	59703	279233	2838645	23530162	0.500 2000	1.00	5.00	50.0	400
PCB-127		AveID	57517 264011122	108872	505934	5642766	46076121	0.500 2000	1.00	5.00	50.0	400
PCB-137		AveID	33182 145652162	61626	318450	3298456	25797296	0.500 2000	1.00	5.00	50.0	400
PCB-164		AveID	46464 196637037	83907	400805	4200180	35754648	0.500 2000	1.00	5.00	50.0	400
PCB-129		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-129/138/160/163		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-138		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-160		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-163		AveID	164754 763652147	303072	1473269	15110013	127135379	2.00 8000	4.00	20.0	200	1600
PCB-158		AveID	60291 240225815	109591	509962	5319521	43420955	0.500 2000	1.00	5.00	50.0	400
PCB-178		AveID	25284 108531079	49156	246629	2440485	20314842	0.500 2000	1.00	5.00	50.0	400
PCB-175		AveID	30945 114534847	50193	246187	2569891	21220414	0.500 2000	1.00	5.00	50.0	400
PCB-126		AveID	49570 256982981	95794	483239	5411840	44661015	0.500 2000	1.00	5.00	50.0	400
PCB-128		AveID	83902 400795430	151578	747908	8124665	68077278	1.00 4000	2.00	10.0	100	800
PCB-128/166		AveID	83902 400795430	151578	747908	8124665	68077278	1.00 4000	2.00	10.0	100	800
PCB-166		AveID	83902 400795430	151578	747908	8124665	68077278	1.00 4000	2.00	10.0	100	800
PCB-187		AveID	31052 135710155	60936	296377	3023234	24989319	0.500 2000	1.00	5.00	50.0	400
PCB-182		AveID	24644	48192	263009	2647036	21292850	0.500	1.00	5.00	50.0	400



FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			113333574					2000				
PCB-183		AveID	64294 226842465	115938	505531	5114533	41853835	1.00 4000	2.00	10.0	100	800
PCB-183/185		AveID	64294 226842465	115938	505531	5114533	41853835	1.00 4000	2.00	10.0	100	800
PCB-185		AveID	64294 226842465	115938	505531	5114533	41853835	1.00 4000	2.00	10.0	100	800
PCB-174		AveID	30210 120778067	46390	258926	2681848	21783169	0.500 2000	1.00	5.00	50.0	400
PCB-159		AveID	58381 268867618	114847	558064	5578541	46357455	0.500 2000	1.00	5.00	50.0	400
PCB-162		AveID	55301 227875192	106735	513669	5046359	41684795	0.500 2000	1.00	5.00	50.0	400
PCB-177		AveID	29904 115865581	53407	265089	2633576	21710754	0.500 2000	1.00	5.00	50.0	400
PCB-202		AveID	25714 114836205	51069	264468	2654251	21547219	0.500 2000	1.00	5.00	50.0	400
PCB-167		AveID	51226 213807712	90866	464967	4608166	37916934	0.500 2000	1.00	5.00	50.0	400
PCB-181		AveID	28637 115218365	55606	243089	2521026	21004998	0.500 2000	1.00	5.00	50.0	400
PCB-171		AveID	60459 222795208	111708	465633	4804669	39921079	1.00 4000	2.00	10.0	100	800
PCB-171/173		AveID	60459 222795208	111708	465633	4804669	39921079	1.00 4000	2.00	10.0	100	800
PCB-173		AveID	60459 222795208	111708	465633	4804669	39921079	1.00 4000	2.00	10.0	100	800
PCB-201		AveID	26064 104750814	50692	242194	2419114	19791616	0.500 2000	1.00	5.00	50.0	400
PCB-156		AveID	88451 422223885	183365	886471	8938406	73585151	1.00 4000	2.00	10.0	100	800
PCB-156/157		AveID	88451 422223885	183365	886471	8938406	73585151	1.00 4000	2.00	10.0	100	800
PCB-157		AveID	88451 422223885	183365	886471	8938406	73585151	1.00 4000	2.00	10.0	100	800
PCB-204		AveID	29939 111110035	53523	259683	2562540	20940493	0.500 2000	1.00	5.00	50.0	400
PCB-197		AveID	34548 119677701	59307	278144	2790933	22095397	0.500 2000	1.00	5.00	50.0	400
PCB-200		AveID	25941 107343183	53055	264690	2461217	20163621	0.500 2000	1.00	5.00	50.0	400

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-172		AveID	26430 98480427	47193	225866	2347963	18849904	0.500 2000	1.00	5.00	50.0	400
PCB-192		AveID	37024 164428936	75123	366181	3758142	30290999	0.500 2000	1.00	5.00	50.0	400
PCB-180		AveID	66935 287312478	130449	626627	6380540	51963197	1.00 4000	2.00	10.0	100	800
PCB-180/193		AveID	66935 287312478	130449	626627	6380540	51963197	1.00 4000	2.00	10.0	100	800
PCB-193		AveID	66935 287312478	130449	626627	6380540	51963197	1.00 4000	2.00	10.0	100	800
PCB-191		AveID	35223 156918655	72972	348406	3590548	29149341	0.500 2000	1.00	5.00	50.0	400
PCB-170		AveID	29022 104308327	51767	255223	2504084	19833085	0.500 2000	1.00	5.00	50.0	400
PCB-190		AveID	40117 158352425	74583	364710	3582145	29063711	0.500 2000	1.00	5.00	50.0	400
PCB-169		AveID	54907 220826313	91425	452938	4858941	39746833	0.500 2000	1.00	5.00	50.0	400
PCB-198		AveID	49584 190066454	88133	430393	4197692	34466252	1.00 4000	2.00	10.0	100	800
PCB-198/199		AveID	49584 190066454	88133	430393	4197692	34466252	1.00 4000	2.00	10.0	100	800
PCB-199		AveID	49584 190066454	88133	430393	4197692	34466252	1.00 4000	2.00	10.0	100	800
PCB-196		AveID	21772 81076975	41271	198979	1892682	15393419	0.500 2000	1.00	5.00	50.0	400
PCB-203		AveID	26586 98693847	45126	235807	2289580	18781869	0.500 2000	1.00	5.00	50.0	400
PCB-208		AveID	41595 166655336	79659	399575	3774592	31300386	0.500 2000	1.00	5.00	50.0	400
PCB-195		AveID	34279 154147844	74468	348250	3431947	28114967	0.500 2000	1.00	5.00	50.0	400
PCB-189		AveID	53094 221399680	97896	493179	4928731	40021622	0.500 2000	1.00	5.00	50.0	400
PCB-207		AveID	49926 170983014	79832	399296	3878521	31656277	0.500 2000	1.00	5.00	50.0	400
PCB-194		AveID	47820 173567729	84593	394237	3967420	32373452	0.500 2000	1.00	5.00	50.0	400
PCB-205		AveID	50563 198631608	94183	448246	4478090	36524269	0.500 2000	1.00	5.00	50.0	400
PCB-206		AveID	43449	67457	317426	3124562	25218974	0.500	1.00	5.00	50.0	400

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			132627452					2000				
PCB-209		AveID	28972 109226464	51840	273346	2603740	20909699	0.500 2000	1.00	5.00	50.0	400
PCB-1L	PCB9L	Ave	14676977 14103562	13411930	13253788	13654287	13820437	100 100	100	100	100	100
PCB-3L	PCB9L	Ave	14134368 14397062	13166477	13154993	13165806	13803706	100 100	100	100	100	100
PCB-4L	PCB9L	Ave	5904521 5672202	5442766	5279032	5474214	5561618	100 100	100	100	100	100
PCB-19L	PCB32 L	Ave	3711790  3634856	3424036	3389482	3406868	3537933	100  100	100	100	100	100
PCB-15L	PCB9L	Ave	9483770 10031243	8819361	8806182	8855244	9575202	100 100	100	100	100	100
PCB-54L	PCB32 L	Ave	3394991  3193810	3010951	2803421	3125781	3162909	100  100	100	100	100	100
PCB-104L	PCB10 1L	Ave	6938320  6975966	6240748	6307301	6455349	6672003	100  100	100	100	100	100
PCB-37L	PCB31 L	Ave	14507892  15552321	13255798	13114910	13535671	14730805	100  100	100	100	100	100
PCB-155L	PCB10 1L	Ave	6307321  6037909	5566942	5708638	5786925	5892178	100  100	100	100	100	100
PCB-81L	PCB52 L	Ave	10352263  11264701	9378026	9411321	9689577	10335461	100  100	100	100	100	100
PCB-77L	PCB52 L	Ave	11078136  11187391	9952597	10036639	10298891	11450569	100  100	100	100	100	100
PCB-123L	PCB12 7L	Ave	10371480  11406816	9073751	9321962	9501201	10377703	100  100	100	100	100	100
PCB-118L	PCB12 7L	Ave	10759990  11370905	9353232	9948185	10094764	10740248	100  100	100	100	100	100
PCB-114L	PCB12 7L	Ave	10504311  11474644	9705413	9387618	9734953	10559524	100  100	100	100	100	100
PCB-188L	PCB18 0L	Ave	7116082	6585200	6664037	6587579	7006215	100	100	100	100	100

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			7440630					100				
PCB-105L	PCB12 7L	Ave	10177357	9101468	9087875	9433900	10096861	100	100	100	100	100
			10771838					100				
PCB-126L	PCB12 7L	Ave	9958778	8756063	8945635	9388684	10103302	100	100	100	100	100
			11098540					100				
PCB-202L	PCB18 0L	Ave	5622444	5103331	5089577	4754288	5079458	100	100	100	100	100
			5299657					100				
PCB-167L	PCB13 8L	Ave	9105316	8343026	8150383	8329121	8748546	100	100	100	100	100
			9296213					100				
PCB-156L	PCB13 8L	Ave	17145311	16075823	15994835	16048883	16797326	200	200	200	200	200
			18003846					200				
PCB-156L/157L	PCB13 8L	Ave	17145311	16075823	15994835	16048883	16797326	200	200	200	200	200
			18003846					200				
PCB-157L	PCB13 8L	Ave	17145311	16075823	15994835	16048883	16797326	200	200	200	200	200
			18003846					200				
PCB-170L	PCB18 0L	Ave	4764508	4277780	4357834	4156589	4386822	100	100	100	100	100
			4404173					100				
PCB-169L	PCB13 8L	Ave	9181390	8243482	7844285	8145884	8761705	100	100	100	100	100
			9278382					100				
PCB-208L	PCB19 4L	Ave	7500908	6757986	6859651	6680775	7135804	100	100	100	100	100
			7275684					100				
PCB-189L	PCB19 4L	Ave	11329298	10353644	10235768	10070777	10502203	100	100	100	100	100
			11047526					100				
PCB-205L	PCB19 4L	Ave	9259085	8466946	8416261	8337493	8638618	100	100	100	100	100
			8823289					100				
PCB-206L	PCB19 4L	Ave	5499727	4908757	5024711	4903942	5087280	100	100	100	100	100
			5196483					100				
PCB-209L	PCB19 4L	Ave	5278978	4729024	4889751	4723291	4867564	100	100	100	100	100
			4902169					100				

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
PCB-8L		AveID			467355	4194596	33958319			5.00	50.0	400
PCB-28L	PCB31 L	Ave			930321	7682166	63120528			5.00	50.0	400
PCB-95L		AveID			234474	2314965	18806941			5.00	50.0	400
PCB-79L		AveID			504032	4986068	42309500			5.00	50.0	400
PCB-111L	PCB10 1L	Ave			394315	3399701	27823366			5.00	50.0	400
PCB-153L		AveID			444756	3417541	27374804			5.00	50.0	400
PCB-178L	PCB18 0L	Ave			290779	2454141	20165082			5.00	50.0	400
PCB-159L		AveID	7935499 8428474	7665555	7301154	7786628	8051959	100 100	100	100	100	100

Curve Type Legend:

Ave = Average ISTD  
AveID = Average isotope dilution

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 140-87130/1	d2240531pi1a.d
Level 2	IC 140-87130/2	d2240531pi2a.d
Level 3	IC 140-87130/3	d2240531pi3.d
Level 4	IC 140-87130/4	d2240531pi4.d
Level 5	IC 140-87130/5	d2240531pi5.d
Level 6	IC 140-87130/6	d2240531pi6.d

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-1	-2.1	2.5	-1.5	-0.8	1.7	+++++	50	30	30	30	30	
PCB-2	-3.0	-3.0	-1.4	-0.4	2.9	4.9	50	30	30	30	30	30
PCB-3	1.2	-3.3	-0.4	0.1	-0.2	2.5	50	30	30	30	30	30
PCB-4	-3.9	2.2	-0.3	-0.8	-2.2	5.0	50	30	30	30	30	30
PCB-10	-4.1	-3.0	1.9	1.7	-2.9	6.4	50	30	30	30	30	30
PCB-9	-5.9	0.3	2.6	-0.2	-2.0	5.2	50	30	30	30	30	30
PCB-7	7.0	-10.0	-4.2	-2.2	-3.8	4.2	50	30	30	30	30	30
PCB-6	5.9	-11.2	-4.6	-2.1	-3.7	5.6	50	30	30	30	30	30
PCB-5	0.0	-2.6	-3.0	1.0	-1.3	5.9	50	30	30	30	30	30
PCB-8	1.4	-4.2	-1.2	-1.2	-2.2	7.5	50	30	30	30	30	30
PCB-19	14.6	-13.5	-0.5	-1.4	-0.6	1.4	50	30	30	30	30	30
PCB-14	2.1	-4.3	-0.2	0.8	-3.4	4.9	50	30	30	30	30	30
PCB-18	-3.8	-1.0	-1.6	0.7	-0.6	6.3	50	30	30	30	30	30
PCB-18/30	-3.8	-1.0	-1.6	0.7	-0.6	6.3	50	30	30	30	30	30
PCB-30	-3.8	-1.0	-1.6	0.7	-0.6	6.3	50	30	30	30	30	30
PCB-11	7.4	-18.0	-0.7	-0.9	-2.7	6.3	50	30	30	30	30	30
PCB-17	0.4	1.2	-2.1	0.2	-1.4	1.8	50	30	30	30	30	30
PCB-12	-5.5	-4.7	0.3	-0.9	-0.9	11.6	50	30	30	30	30	30
PCB-12/13	-5.5	-4.7	0.3	-0.9	-0.9	11.6	50	30	30	30	30	30
PCB-13	-5.5	-4.7	0.3	-0.9	-0.9	11.6	50	30	30	30	30	30
PCB-27	-19.4	-1.6	0.0	1.8	1.6	8.9	50	30	30	30	30	30
PCB-24	-8.9	-3.3	-2.8	-1.5	0.8	7.5	50	30	30	30	30	30
PCB-16	-0.1	-16.0	-1.1	1.9	0.4	4.6	50	30	30	30	30	30
PCB-15	4.4	0.1	-2.8	-1.6	-4.3	4.2	50	30	30	30	30	30
PCB-54	-17.2	4.1	5.2	3.4	0.9	3.6	50	30	30	30	30	30
PCB-32	0.6	-4.0	-0.2	-1.4	-0.2	5.2	50	30	30	30	30	30
PCB-34	0.0	-2.5	0.3	-0.2	-4.1	6.4	50	30	30	30	30	30
PCB-23	-7.6	3.4	0.1	-1.8	-6.8	4.8	50	30	30	30	30	30
PCB-26	-3.4	-0.6	-3.4	-3.5	-1.8	12.6	50	30	30	30	30	30
PCB-26/29	-3.4	-0.6	-3.4	-3.5	-1.8	12.6	50	30	30	30	30	30
PCB-29	-3.4	-0.6	-3.4	-3.5	-1.8	12.6	50	30	30	30	30	30
PCB-25	5.9	-4.7	-4.4	-2.0	-5.1	10.2	50	30	30	30	30	30
PCB-50	4.7	-3.2	-4.3	-1.9	-5.4	10.2	50	30	30	30	30	30

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-50/53	4.7	-3.2	-4.3	-1.9	-5.4	10.2	50	30	30	30	30	30
PCB-53	4.7	-3.2	-4.3	-1.9	-5.4	10.2	50	30	30	30	30	30
PCB-31	1.4	5.2	-1.5	-4.4	-6.2	5.5	50	30	30	30	30	30
PCB-20	-3.9	-4.0	-3.4	-2.2	-2.0	15.6	50	30	30	30	30	30
PCB-20/28	-3.9	-4.0	-3.4	-2.2	-2.0	15.6	50	30	30	30	30	30
PCB-28	-3.9	-4.0	-3.4	-2.2	-2.0	15.6	50	30	30	30	30	30
PCB-45	-1.8	-1.3	-1.9	0.2	-3.5	8.2	50	30	30	30	30	30
PCB-45/51	-1.8	-1.3	-1.9	0.2	-3.5	8.2	50	30	30	30	30	30
PCB-51	-1.8	-1.3	-1.9	0.2	-3.5	8.2	50	30	30	30	30	30
PCB-21	-5.3	-1.0	-0.4	-1.6	-3.8	12.1	50	30	30	30	30	30
PCB-21/33	-5.3	-1.0	-0.4	-1.6	-3.8	12.1	50	30	30	30	30	30
PCB-33	-5.3	-1.0	-0.4	-1.6	-3.8	12.1	50	30	30	30	30	30
PCB-46	14.6	-4.1	-1.3	-1.5	-6.8	-0.9	50	30	30	30	30	30
PCB-22	1.0	3.9	-5.5	-2.5	-4.4	7.4	50	30	30	30	30	30
PCB-52	-8.0	-1.3	-1.6	2.8	-4.3	3.7	50	30	30	30	30	30
PCB-43	4.1	0.2	-3.0	-0.6	-6.3	5.5	50	30	30	30	30	30
PCB-43/73	4.1	0.2	-3.0	-0.6	-6.3	5.5	50	30	30	30	30	30
PCB-73	4.1	0.2	-3.0	-0.6	-6.3	5.5	50	30	30	30	30	30
PCB-36	-4.3	2.7	0.8	1.9	-6.0	5.0	50	30	30	30	30	30
PCB-49	6.1	-2.3	-3.5	-1.8	-6.7	8.1	50	30	30	30	30	30
PCB-49/69	6.1	-2.3	-3.5	-1.8	-6.7	8.1	50	30	30	30	30	30
PCB-69	6.1	-2.3	-3.5	-1.8	-6.7	8.1	50	30	30	30	30	30
PCB-39	-3.4	-1.8	0.1	-1.1	-3.4	9.5	50	30	30	30	30	30
PCB-48	3.9	3.4	-1.6	-2.4	-6.3	3.1	50	30	30	30	30	30
PCB-104	-0.7	-2.3	-3.8	0.9	0.3	5.6	50	30	30	30	30	30
PCB-44	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-44/47/65	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-47	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-65	-2.2	-1.5	-5.3	-3.9	-5.1	18.0	50	30	30	30	30	30
PCB-38	-3.2	-0.8	-4.3	-2.5	-3.0	13.8	50	30	30	30	30	30
PCB-96	1.4	-7.2	-1.8	-0.7	-0.2	8.6	50	30	30	30	30	30
PCB-59	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-59/62/75	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-62	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-75	1.4	-3.6	-7.6	-5.0	-4.6	19.4	50	30	30	30	30	30
PCB-42	0.2	1.5	1.3	0.4	-6.1	2.8	50	30	30	30	30	30
PCB-35	5.0	-4.7	-2.7	-1.1	-2.3	5.7	50	30	30	30	30	30
PCB-40	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-40/41/71	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-41	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-71	7.4	-1.7	-3.8	-3.8	-5.5	7.4	50	30	30	30	30	30
PCB-37	8.8	-2.0	-3.5	-1.9	-6.1	4.7	50	30	30	30	30	30
PCB-64	-9.3	6.6	-4.0	-4.2	-8.3	1.5	50	30	30	30	30	30

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville

Job No.: 140-36940-1

Analy Batch No.: 87130

SDG No.: \_\_\_\_\_

Instrument ID: D2D

GC Column: SPB-Octyl ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/31/2024 14:36

Calibration End Date: 05/31/2024 21:13

Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-72	1.2	-2.8	-0.6	0.8	-4.4	5.8	50	30	30	30	30	30
PCB-103	-0.1	0.1	-1.1	-0.4	-1.3	2.7	50	30	30	30	30	30
PCB-68	-6.5	-0.4	1.6	1.3	-3.5	7.6	50	30	30	30	30	30
PCB-94	-12.9	6.3	1.0	-4.5	-5.4	-2.1	50	30	30	30	30	30
PCB-57	-5.2	3.1	-2.0	0.7	-3.5	6.9	50	30	30	30	30	30
PCB-95	-12.1	-12.7	-2.4	0.8	1.4	3.3	50	30	30	30	30	30
PCB-58	-14.4	-8.1	-0.8	2.8	-2.3	11.9	50	30	30	30	30	30
PCB-100	1.2	-1.1	-4.4	-2.1	-2.3	8.7	50	30	30	30	30	30
PCB-93	1.2	-1.1	-4.4	-2.1	-2.3	8.7	50	30	30	30	30	30
PCB-93/100	1.2	-1.1	-4.4	-2.1	-2.3	8.7	50	30	30	30	30	30
PCB-67	4.5	-1.1	-4.2	-3.3	-5.1	9.3	50	30	30	30	30	30
PCB-102	-0.1	-11.0	1.0	-0.7	-1.8	2.8	50	30	30	30	30	30
PCB-98	-0.1	-11.0	1.0	-0.7	-1.8	2.8	50	30	30	30	30	30
PCB-98/102	-0.1	-11.0	1.0	-0.7	-1.8	2.8	50	30	30	30	30	30
PCB-63	0.8	4.6	-0.3	-2.1	-6.8	3.7	50	30	30	30	30	30
PCB-88	4.4	-6.9	-1.6	-1.9	-0.8	6.8	50	30	30	30	30	30
PCB-88/91	4.4	-6.9	-1.6	-1.9	-0.8	6.8	50	30	30	30	30	30
PCB-91	4.4	-6.9	-1.6	-1.9	-0.8	6.8	50	30	30	30	30	30
PCB-61	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-61/70/74/76	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-70	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-74	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-76	-2.0	-3.1	-4.1	-3.8	-3.8	16.8	50	30	30	30	30	30
PCB-84	-0.6	8.0	-1.9	-2.5	-2.8	-0.1	50	30	30	30	30	30
PCB-66	-1.8	-9.8	-1.8	0.4	-3.4	8.6	50	30	30	30	30	30
PCB-55	9.5	-6.6	-2.1	-2.0	-6.0	7.1	50	30	30	30	30	30
PCB-89	2.0	-12.7	-0.2	-3.7	-4.0	-2.2	50	30	30	30	30	30
PCB-56	13.0	-5.5	-3.8	-2.0	-6.5	4.8	50	30	30	30	30	30
PCB-121	-10.9	1.6	-0.5	-1.0	-1.5	4.8	50	30	30	30	30	30
PCB-60	0.5	10.9	-6.5	-2.4	-6.5	4.0	50	30	30	30	30	30
PCB-92	1.0	6.0	-3.2	-1.2	-2.4	-0.2	50	30	30	30	30	30
PCB-80	4.7	0.1	-3.9	-2.5	-5.2	6.9	50	30	30	30	30	30
PCB-155	-5.9	2.2	0.1	0.9	0.0	2.6	50	30	30	30	30	30
PCB-152	-0.5	-9.6	-0.7	-3.9	-2.1	6.5	50	30	30	30	30	30
PCB-101	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-113	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-90	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-90/101/113	-0.7	-11.4	-5.5	-1.3	-1.9	11.5	50	30	30	30	30	30
PCB-150	-5.0	-0.5	1.3	0.0	0.0	4.1	50	30	30	30	30	30
PCB-136	4.7	-1.1	-6.2	-2.3	-0.4	5.4	50	30	30	30	30	30
PCB-83	-0.6	-12.8	0.0	2.1	-1.4	3.1	50	30	30	30	30	30
PCB-83/99	-0.6	-12.8	0.0	2.1	-1.4	3.1	50	30	30	30	30	30
PCB-99	-0.6	-12.8	0.0	2.1	-1.4	3.1	50	30	30	30	30	30



FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-112	2.4	-2.7	-1.7	-4.3	-3.8	1.9	50	30	30	30	30	30
PCB-145	2.9	-5.0	-0.5	-1.0	-0.7	4.3	50	30	30	30	30	30
PCB-109	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-119	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-125	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-86	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-86/87/97/109/119/125	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-87	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-97	-3.0	-3.1	-6.8	-4.4	-0.4	17.6	50	30	30	30	30	30
PCB-79	0.5	6.3	-6.1	-4.4	-6.1	9.8	50	30	30	30	30	30
PCB-78	13.8	3.0	-2.3	-5.2	-8.9	-0.4	50	30	30	30	30	30
PCB-116	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-117	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-85	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-85/116/117	1.6	-1.0	-4.7	-1.8	-2.2	8.2	50	30	30	30	30	30
PCB-110	0.8	3.0	-2.3	-3.0	-3.2	4.7	50	30	30	30	30	30
PCB-110/115	0.8	3.0	-2.3	-3.0	-3.2	4.7	50	30	30	30	30	30
PCB-115	0.8	3.0	-2.3	-3.0	-3.2	4.7	50	30	30	30	30	30
PCB-81	3.7	1.5	-1.7	-0.4	-4.3	1.3	50	30	30	30	30	30
PCB-82	0.5	2.0	-1.6	-0.8	-2.0	1.9	50	30	30	30	30	30
PCB-148	0.6	-4.6	-0.9	-1.1	0.2	5.8	50	30	30	30	30	30
PCB-77	7.9	2.9	-4.3	-2.4	-8.8	4.8	50	30	30	30	30	30
PCB-111	-4.4	10.3	-4.0	-2.3	-1.6	2.1	50	30	30	30	30	30
PCB-135	0.4	-3.1	-2.7	-0.2	-0.2	5.7	50	30	30	30	30	30
PCB-135/151	0.4	-3.1	-2.7	-0.2	-0.2	5.7	50	30	30	30	30	30
PCB-151	0.4	-3.1	-2.7	-0.2	-0.2	5.7	50	30	30	30	30	30
PCB-120	3.6	-0.5	-4.1	-1.4	-3.0	5.4	50	30	30	30	30	30
PCB-154	-8.8	-6.9	-1.6	0.8	0.6	5.6	50	30	30	30	30	30
PCB-144	5.1	-11.4	-2.9	-1.7	-2.0	1.6	50	30	30	30	30	30
PCB-147	7.9	-5.6	-5.7	-2.9	-2.9	9.1	50	30	30	30	30	30
PCB-147/149	7.9	-5.6	-5.7	-2.9	-2.9	9.1	50	30	30	30	30	30
PCB-149	7.9	-5.6	-5.7	-2.9	-2.9	9.1	50	30	30	30	30	30
PCB-134	3.7	0.6	0.5	-0.6	-4.2	-0.1	50	30	30	30	30	30
PCB-134/143	3.7	0.6	0.5	-0.6	-4.2	-0.1	50	30	30	30	30	30
PCB-143	3.7	0.6	0.5	-0.6	-4.2	-0.1	50	30	30	30	30	30
PCB-108	-3.1	-0.6	-2.9	-2.5	-3.5	12.7	50	30	30	30	30	30
PCB-108/124	-3.1	-0.6	-2.9	-2.5	-3.5	12.7	50	30	30	30	30	30
PCB-124	-3.1	-0.6	-2.9	-2.5	-3.5	12.7	50	30	30	30	30	30
PCB-139	-0.8	-1.0	-4.0	-1.3	-1.9	8.9	50	30	30	30	30	30
PCB-139/140	-0.8	-1.0	-4.0	-1.3	-1.9	8.9	50	30	30	30	30	30
PCB-140	-0.8	-1.0	-4.0	-1.3	-1.9	8.9	50	30	30	30	30	30
PCB-107	6.5	-16.3	1.8	1.0	-4.2	2.9	50	30	30	30	30	30
PCB-131	+++++	-1.6	-3.5	-1.0	0.3	5.8		50	30	30	30	30

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-123	1.2	6.8	-11.0	-1.2	-1.8	5.9	50	30	30	30	30	30
PCB-106	2.1	-2.9	-0.9	-1.5	-3.3	6.5	50	30	30	30	30	30
PCB-142	-5.4	-4.3	0.3	2.1	-0.1	7.4	50	30	30	30	30	30
PCB-118	1.1	4.7	-3.3	-1.1	-4.4	3.2	50	30	30	30	30	30
PCB-132	10.3	-2.7	0.4	-2.2	-4.2	-1.6	50	30	30	30	30	30
PCB-122	-0.1	7.6	-6.7	2.2	-4.1	1.1	50	30	30	30	30	30
PCB-114	-2.1	2.1	-2.4	0.6	-2.6	4.5	50	30	30	30	30	30
PCB-188	-1.7	3.1	0.5	-0.8	-2.9	1.9	50	30	30	30	30	30
PCB-133	-9.7	-1.2	1.4	-1.4	1.7	-0.2	50	30	30	30	30	30
PCB-179	10.3	-0.6	-3.0	-2.6	-4.3	0.1	50	30	30	30	30	30
PCB-165	-6.9	6.4	-0.3	0.5	-1.6	2.0	50	30	30	30	30	30
PCB-105	8.3	-0.6	-4.9	-1.4	-4.4	3.0	50	30	30	30	30	30
PCB-146	-1.5	-6.5	-1.7	-1.8	-0.9	4.3	50	30	30	30	30	30
PCB-184	-6.1	-0.1	-1.7	1.1	-0.4	7.2	50	30	30	30	30	30
PCB-161	-6.1	3.2	-2.8	1.7	-1.6	5.6	50	30	30	30	30	30
PCB-176	10.8	-6.6	-2.3	0.8	-3.9	1.2	50	30	30	30	30	30
PCB-153	-3.9	-6.6	2.1	0.6	-0.6	8.4	50	30	30	30	30	30
PCB-153/168	-3.9	-6.6	2.1	0.6	-0.6	8.4	50	30	30	30	30	30
PCB-168	-3.9	-6.6	2.1	0.6	-0.6	8.4	50	30	30	30	30	30
PCB-141	-7.8	4.5	-3.3	-2.8	-3.2	-2.7	50	30	30	30	30	30
PCB-186	2.2	-5.5	-2.9	2.4	-1.2	5.0	50	30	30	30	30	30
PCB-130	2.9	3.7	-1.0	-1.0	-2.7	-2.0	50	30	30	30	30	30
PCB-127	-2.5	3.9	-4.9	2.8	-2.6	3.2	50	30	30	30	30	30
PCB-137	-3.5	-12.8	2.5	4.5	-3.2	2.5	50	30	30	30	30	30
PCB-164	-13.8	-13.5	-3.5	-0.5	0.4	3.6	50	30	30	30	30	30
PCB-129	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-129/138/160/163	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-138	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-160	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-163	-1.7	-2.0	-2.7	-1.8	-2.1	10.3	50	30	30	30	30	30
PCB-158	3.8	2.4	-2.7	-0.2	-3.5	0.2	50	30	30	30	30	30
PCB-178	-4.8	1.2	0.0	1.6	-0.3	2.4	50	30	30	30	30	30
PCB-175	9.4	-12.1	-6.2	0.5	-2.2	1.5	50	30	30	30	30	30
PCB-126	-9.3	-0.3	-1.6	5.0	0.7	5.5	50	30	30	30	30	30
PCB-128	-3.6	-13.1	-4.9	1.7	0.9	11.5	50	30	30	30	30	30
PCB-128/166	-3.6	-13.1	-4.9	1.7	0.9	11.5	50	30	30	30	30	30
PCB-166	-3.6	-13.1	-4.9	1.7	0.9	11.5	50	30	30	30	30	30
PCB-187	-13.1	1.8	-2.4	2.2	-0.5	4.0	50	30	30	30	30	30
PCB-182	-10.3	-4.0	3.2	6.6	1.1	3.5	50	30	30	30	30	30
PCB-183	10.2	8.6	-6.6	-3.1	-6.5	-2.5	50	30	30	30	30	30
PCB-183/185	10.2	8.6	-6.6	-3.1	-6.5	-2.5	50	30	30	30	30	30
PCB-185	10.2	8.6	-6.6	-3.1	-6.5	-2.5	50	30	30	30	30	30
PCB-174	5.5	-18.6	-2.5	3.6	-0.8	5.8	50	30	30	30	30	30

FORM VI  
HI-RES PCBS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Knoxville Job No.: 140-36940-1 Analy Batch No.: 87130  
SDG No.: \_\_\_\_\_  
Instrument ID: D2D GC Column: SPB-Octyl ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 05/31/2024 14:36 Calibration End Date: 05/31/2024 21:13 Calibration ID: 5117

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
PCB-159	-4.9	1.5	0.7	-1.0	-2.5	6.1	50	30	30	30	30	30
PCB-162	-0.7	4.0	2.2	-1.3	-3.3	-0.9	50	30	30	30	30	30
PCB-177	-14.5	0.6	-1.6	0.3	-2.5	0.1	50	30	30	30	30	30
PCB-202	-11.7	-3.4	0.3	7.8	2.4	4.6	50	30	30	30	30	30
PCB-167	0.8	-2.4	2.2	-0.8	-2.9	3.1	50	30	30	30	30	30
PCB-181	-9.2	7.7	-7.2	-1.3	-3.0	2.3	50	30	30	30	30	30
PCB-171	9.0	1.6	-9.5	-4.2	-6.2	0.7	50	30	30	30	30	30
PCB-171/173	9.0	1.6	-9.5	-4.2	-6.2	0.7	50	30	30	30	30	30
PCB-173	9.0	1.6	-9.5	-4.2	-6.2	0.7	50	30	30	30	30	30
PCB-201	-4.9	-5.1	-2.4	4.3	-0.1	1.3	50	30	30	30	30	30
PCB-156	-7.1	2.7	-0.2	0.3	-1.4	5.6	50	30	30	30	30	30
PCB-156/157	-7.1	2.7	-0.2	0.3	-1.4	5.6	50	30	30	30	30	30
PCB-157	-7.1	2.7	-0.2	0.3	-1.4	5.6	50	30	30	30	30	30
PCB-204	1.6	-6.8	-2.7	2.8	-1.7	0.0	50	30	30	30	30	30
PCB-197	-0.8	-5.9	-4.6	2.5	-5.1	-1.5	50	30	30	30	30	30
PCB-200	-8.4	-16.3	3.3	2.8	-1.5	0.6	50	30	30	30	30	30
PCB-172	4.5	2.0	-3.8	2.6	-2.9	-2.4	50	30	30	30	30	30
PCB-192	-7.4	2.8	-1.3	4.0	-1.2	3.1	50	30	30	30	30	30
PCB-180	-3.5	2.8	-2.6	1.7	-2.3	3.9	50	30	30	30	30	30
PCB-180/193	-3.5	2.8	-2.6	1.7	-2.3	3.9	50	30	30	30	30	30
PCB-193	-3.5	2.8	-2.6	1.7	-2.3	3.9	50	30	30	30	30	30
PCB-191	-8.0	4.2	-1.9	3.7	-0.8	2.8	50	30	30	30	30	30
PCB-170	-8.9	2.0	-1.3	1.5	-4.7	-0.2	50	30	30	30	30	30
PCB-190	1.4	3.1	-0.6	0.1	-4.3	0.3	50	30	30	30	30	30
PCB-169	2.9	-4.6	-0.7	2.6	-2.5	2.3	50	30	30	30	30	30
PCB-198	1.4	-0.7	-2.8	1.5	-2.5	3.1	50	30	30	30	30	30
PCB-198/199	1.4	-0.7	-2.8	1.5	-2.5	3.1	50	30	30	30	30	30
PCB-199	1.4	-0.7	-2.8	1.5	-2.5	3.1	50	30	30	30	30	30
PCB-196	-0.8	3.6	0.2	2.0	-2.9	-2.0	50	30	30	30	30	30
PCB-203	1.8	-4.8	-0.3	3.7	-0.5	0.2	50	30	30	30	30	30
PCB-208	-2.5	3.6	2.4	-0.7	-3.6	0.7	50	30	30	30	30	30
PCB-195	-18.4	6.4	0.2	-0.4	-1.5	5.7	50	30	30	30	30	30
PCB-189	-2.7	-1.8	0.0	1.6	-1.1	4.0	50	30	30	30	30	30
PCB-207	11.7	-0.5	-2.3	-2.6	-5.9	-0.3	50	30	30	30	30	30
PCB-194	6.1	2.6	-3.8	-2.2	-3.8	1.0	50	30	30	30	30	30
PCB-205	0.4	2.3	-2.1	-1.2	-2.8	3.5	50	30	30	30	30	30
PCB-206	18.4	3.0	-5.3	-4.5	-7.1	-4.4	50	30	30	30	30	30
PCB-209	-0.3	-0.4	1.6	0.2	-2.4	1.2	50	30	30	30	30	30
PCB-8L			10.0	-3.0	-7.0				50	30	30	
PCB-95L			3.0	-0.6	-2.4				50	30	30	
PCB-79L			3.5	-0.4	-3.1				50	30	30	
PCB-153L			21.3	-8.3	-13.0				50	30	30	
PCB-159L	-4.5	1.1	-1.0	2.9	1.6	-0.1	50	30	30	30	30	30

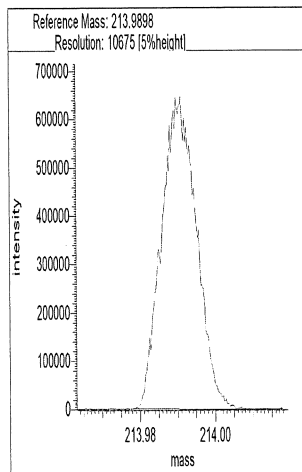
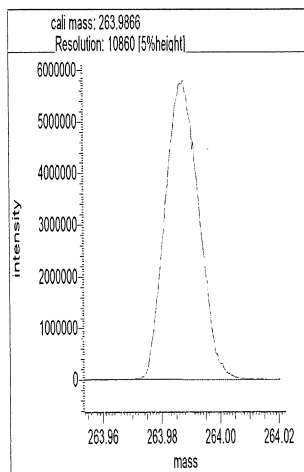
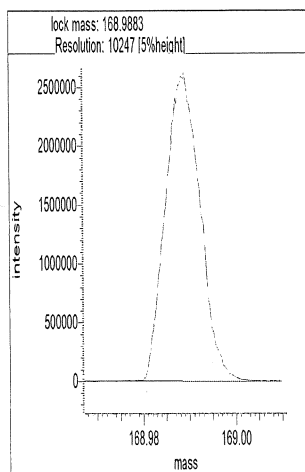
# Resolution Check Report ( DFS SN: 3190 )

Date: 31 May 2024 12:51  
MID Experiment: ResCheck\_1668  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43KnxPCB.lua  
Status: RESOLUTION PASSED

d2240531ir2

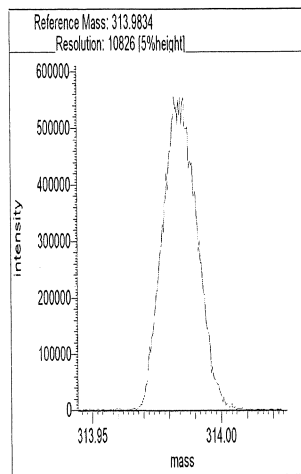
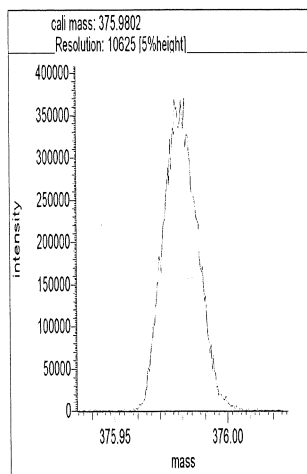
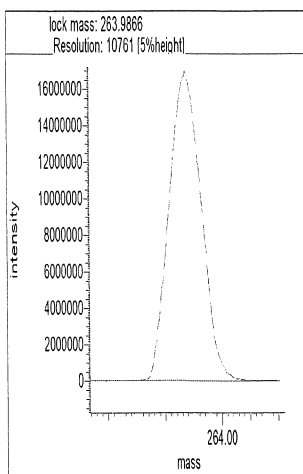
## Segment 1

Lock mass 168.9883 [m/z] Resolution: 10247 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 10860 [5%height]  
Ref. mass 213.9898 [m/z] Resolution: 10675 [5%height]



## Segment 2

Lock mass 263.9866 [m/z] Resolution: 10761 [5%height]  
Cali. mass 375.9802 [m/z] Resolution: 10625 [5%height]  
Ref. mass 313.9834 [m/z] Resolution: 10826 [5%height]

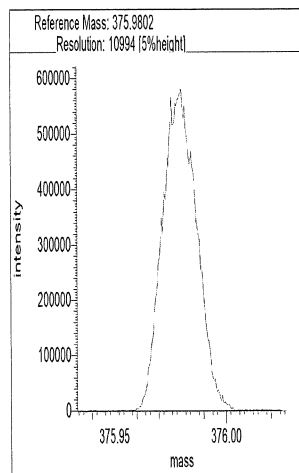
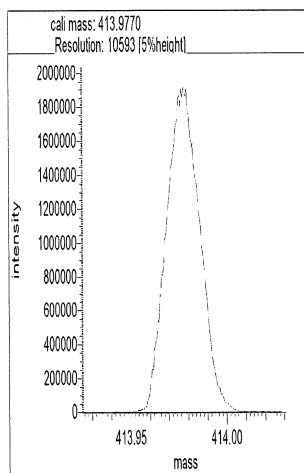
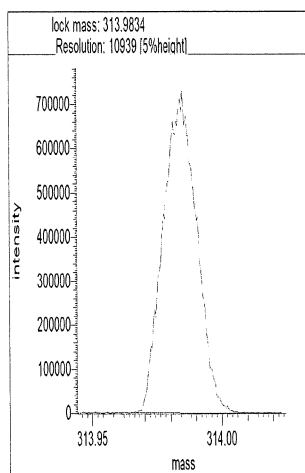


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 10939 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10593 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 10994 [5%height]

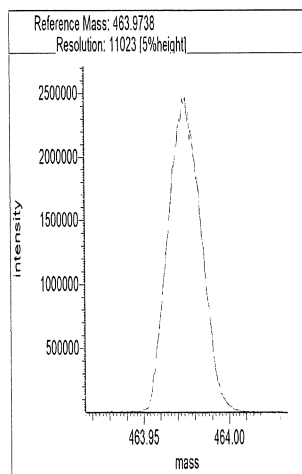
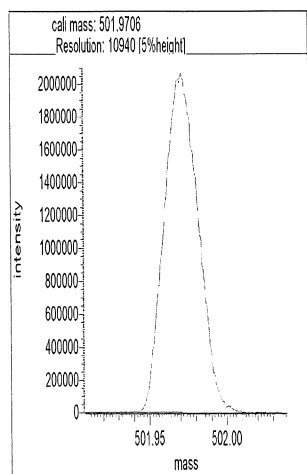
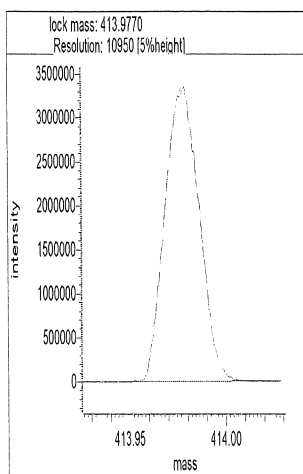


### Segment 4

Lock mass 413.9770 [m/z] Resolution: 10950 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 10940 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 11023 [5%height]



## Reports

```

Reports
13:00:30: Peak matching procedure started
13:00:31:
13:00:31: Reference mass: 168.98827
13:00:32: Sample mass: 214.0
13:00:32:
13:00:33: Finding reference mass
13:00:34: Finding sample mass
13:00:34:
13:00:40: [1] 213.9900 amu, mean: 213.9900
13:00:43: [2] 213.9900 amu, mean: 213.9900 SD: 0.01 mmu or: 0.03 ppm
13:00:47: [3] 213.9898 amu, mean: 213.9900 SD: 0.14 mmu or: 0.63 ppm
13:00:50: [4] 213.9899 amu, mean: 213.9899 SD: 0.12 mmu or: 0.57 ppm
13:00:50:
13:00:50: Stop requested. Please wait for procedure to finish.
13:00:50:
13:00:53:
13:00:53: Peakmatching stopped

```

Signature

BKK 5/31/24

## Reports

13:01:15: Peak matching procedure started  
13:01:16:  
13:01:16: Reference mass: 213.98975  
13:01:17: Sample mass: 264.0  
13:01:17:  
13:01:18: Finding reference mass  
13:01:19: Finding sample mass  
13:01:19:  
13:01:25: [1] 263.9865 amu, mean: 263.9865  
13:01:28: [2] 263.9863 amu, mean: 263.9864 SD: 0.16 mmu or: 0.60 ppm  
13:01:31: [3] 263.9862 amu, mean: 263.9863 SD: 0.17 mmu or: 0.63 ppm  
13:01:34: [4] 263.9871 amu, mean: 263.9865 SD: 0.39 mmu or: 1.46 ppm  
13:01:35:  
13:01:35: Stop requested. Please wait for procedure to finish.  
13:01:35:  
13:01:38:  
13:01:38: Peakmatching stopped

Signature

BK 5/31/24



## Reports

13:01:52: Peak matching procedure started  
13:01:52:  
13:01:53: Reference mass: 263.98656  
13:01:53: Sample mass: 314.0  
13:01:54:  
13:01:54: Finding reference mass  
13:01:55: Finding sample mass  
13:01:56:  
13:02:02: [1] 313.9842 amu, mean: 313.9842  
13:02:05: [2] 313.9836 amu, mean: 313.9839 SD: 0.43 mmu or: 1.38 ppm  
13:02:08: [3] 313.9844 amu, mean: 313.9841 SD: 0.42 mmu or: 1.35 ppm  
13:02:11: [4] 313.9843 amu, mean: 313.9841 SD: 0.36 mmu or: 1.16 ppm  
13:02:12:  
13:02:12: Stop requested. Please wait for procedure to finish.  
13:02:12:  
13:02:14:  
13:02:15: Peakmatching stopped

Signature

BKK 5/31/24

## Reports

13:02:51: Peak matching procedure started  
13:02:52:  
13:02:52: Reference mass: 313.98336  
13:02:53: Sample mass: 376.0  
13:02:53:  
13:02:54: Finding reference mass  
13:02:55: Finding sample mass  
13:02:56:  
13:03:01: [1] 375.9809 amu, mean: 375.9809  
13:03:04: [2] 375.9805 amu, mean: 375.9807 SD: 0.34 mmu or: 0.90 ppm  
13:03:08: [3] 375.9810 amu, mean: 375.9808 SD: 0.30 mmu or: 0.81 ppm  
13:03:11: [4] 375.9806 amu, mean: 375.9808 SD: 0.27 mmu or: 0.72 ppm  
13:03:11:  
13:03:11: Stop requested. Please wait for procedure to finish.  
13:03:11:  
13:03:14:  
13:03:14: Peakmatching stopped

Signature

BKV 5/31/24

## Reports

13:02:51: Peak matching procedure started  
13:02:52:  
13:02:52: Reference mass: 313.98336  
13:02:53: Sample mass: 376.0  
13:02:53:  
13:02:54: Finding reference mass  
13:02:55: Finding sample mass  
13:02:56:  
13:03:01: [1] 375.9809 amu, mean: 375.9809  
13:03:04: [2] 375.9805 amu, mean: 375.9807 SD: 0.34 mmu or: 0.90 ppm  
13:03:08: [3] 375.9810 amu, mean: 375.9808 SD: 0.30 mmu or: 0.81 ppm  
13:03:11: [4] 375.9806 amu, mean: 375.9808 SD: 0.27 mmu or: 0.72 ppm  
13:03:11:  
13:03:11: Stop requested. Please wait for procedure to finish.  
13:03:11:  
13:03:14:  
13:03:14: Peakmatching stopped

Signature

BLK 5/31/24

## Reports

13:03:30: Peak matching procedure started  
13:03:31:  
13:03:31: Reference mass: 375.98017  
13:03:32: Sample mass: 414.0  
13:03:32:  
13:03:33: Finding reference mass  
13:03:34: Finding sample mass  
13:03:34:  
13:03:40: [1] 413.9781 amu, mean: 413.9781  
13:03:43: [2] 413.9781 amu, mean: 413.9781 SD: 0.01 mmu or: 0.02 ppm  
13:03:46: [3] 413.9783 amu, mean: 413.9782 SD: 0.16 mmu or: 0.38 ppm  
13:03:50: [4] 413.9777 amu, mean: 413.9780 SD: 0.28 mmu or: 0.67 ppm  
13:03:50:  
13:03:50: Stop requested. Please wait for procedure to finish.  
13:03:50:  
13:03:53:  
13:03:53: Peakmatching stopped

Signature

BKK 5/31/24

## Reports

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13:04:12: Peak matching procedure started
13:04:12:
13:04:13: Reference mass: 413.97698
13:04:13: Sample mass: 464.0
13:04:14:
13:04:14: Finding reference mass
13:04:15: Finding sample mass
13:04:16:
13:04:21: [1] 463.9745 amu, mean: 463.9745
13:04:25: [2] 463.9741 amu, mean: 463.9743 SD: 0.31 mmu or: 0.67 ppm
13:04:28: [3] 463.9747 amu, mean: 463.9744 SD: 0.33 mmu or: 0.71 ppm
13:04:31: [4] 463.9752 amu, mean: 463.9746 SD: 0.47 mmu or: 1.02 ppm
13:04:32:
13:04:32: Stop requested. Please wait for procedure to finish.
13:04:32:
13:04:34:
13:04:35: Peakmatching stopped

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Signature

BKK 5/31/24

## Reports

13:04:47: Peak matching procedure started  
13:04:48:  
13:04:48: Reference mass: 463.97378  
13:04:49: Sample mass: 502.0  
13:04:49:  
13:04:50: Finding reference mass  
13:04:51: Finding sample mass  
13:04:51:  
13:04:57: [1] 501.9705 amu, mean: 501.9705  
13:05:00: [2] 501.9716 amu, mean: 501.9710 SD: 0.80 mmu or: 1.60 ppm  
13:05:04: [3] 501.9720 amu, mean: 501.9714 SD: 0.80 mmu or: 1.59 ppm  
13:05:07: [4] 501.9704 amu, mean: 501.9711 SD: 0.80 mmu or: 1.59 ppm  
13:05:07:  
13:05:07: Stop requested. Please wait for procedure to finish.  
13:05:07:  
13:05:10:  
13:05:10: Peakmatching stopped

Signature

BKK 5/31/24

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Lims ID: IC L1  
Client ID:  
Sample Type: IC Calib Level: 1  
Inject. Date: 31-May-2024 14:36:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:26:08 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 16:04:19

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					1.480	1.480	0.008877	0.008877		
D PCB-1L	11:38	14676977	3.18	1.6108	102.8	102.8	0.3184	0.3184	103	
D PCB-3L	13:47	14134368	3.26	1.5891	100.4	100.4	0.3228	0.3228	100	
PCB-1	11:39	87624	3.17	1.2191	0.4897	0.4897	0.007895	0.007895	97.94	
PCB-2	13:38	82442	3.08	1.1805	0.4848	0.4848	0.009006	0.009006	96.96	
PCB-3	13:48	87263	2.88	1.2206	0.5058	0.5058	0.009729	0.009729	101	
S Total Dichlorobiphenyls					6.017	6.017	0.0100	0.0100		
D PCB-4L	14:02	5904521	1.60	0.6475	102.9	102.9	0.1150	0.1150	103	
* PCB-9L	16:01	8859875	1.65		100.0	100.0				
D PCB-15L	19:55	9483770	1.65	1.0789	99.2	99.2	0.0690	0.0690	99.21	
PCB-4	14:04	36374	1.65	1.2818	0.4806	0.4806	0.0118	0.0118	96.12	
PCB-10	14:14	48502	1.60	1.3149	0.4794	0.4794	0.0104	0.0104	95.89	
PCB-9	16:02	51501	1.40	1.4224	0.4706	0.4706	0.009649	0.009649	94.11	
PCB-7	16:11	58157	1.66	1.4134	0.5348	0.5348	0.009711	0.009711	107	
PCB-6	16:26	62834	1.78	1.5421	0.5296	0.5296	0.008901	0.008901	106	
PCB-5	16:44	51519	1.59	1.3395	0.4999	0.4999	0.0102	0.0102	99.98	
PCB-8	16:52	61977	1.54	1.5889	0.5070	0.5070	0.008639	0.008639	101	
PCB-14	18:29	55107	1.60	1.4025	0.5107	0.5107	0.009787	0.009787	102	
PCB-11	19:20	53494	1.78	1.2951	0.5368	0.5368	0.0106	0.0106	107	
PCB-12	19:38	97175	1.76	1.3358	0.9455	0.9455	0.0103	0.0103	94.55	
PCB-13 (C12)	19:38	97175	1.76	1.3358	0.9455	0.9455	0.0103	0.0103	94.55	
PCB-15	19:57	63884	1.72	1.2903	0.5221	0.5221	0.009752	0.009752	104	
S Total Trichlorobiphenyls					11.9	11.8	0.0219	0.0219		RQ
D PCB-19L	17:09	3711790	1.05	0.6285	99.1	99.1	0.6332	0.6332	99.13	
* PCB-32L	20:24	5957210	1.09		100.0	100.0				
* PCB-31L	22:40	16769231	1.05		100.0	100.0				
D PCB-37L	26:57	14507892	1.05	0.8749	98.9	98.9	0.1278	0.1278	98.88	
PCB-19	17:10	27248	1.04	1.2809	0.5731	0.5731	0.007420	0.007420	115	
PCB-18	19:01	63024	1.20	1.7652	0.9619	0.9619	0.005384	0.005384	96.19	
PCB-30 (C18)	19:01	63024	1.20	1.7652	0.9619	0.9619	0.005384	0.005384	96.19	
PCB-17	19:27	23167	1.01	1.2430	0.5021	0.5021	0.007646	0.007646	100	
PCB-27	19:40	27414	1.04	1.8327	0.4459	0.4030	0.005186	0.005186	89.18	RQ
PCB-24	19:47	28349	1.04	1.6777	0.4961	0.4553	0.005665	0.005665	99.22	RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:54	20922	1.12	1.1286	0.4994	0.4994	0.008422	0.008422	99.89	
PCB-32	20:25	34215	0.98	1.8324	0.5030	0.5030	0.005187	0.005187	101	
PCB-34	21:41	81792	1.05	1.1277	0.4999	0.4999	0.0305	0.0305	99.98	
PCB-23	21:50	72448	1.04	1.0813	0.5015	0.4618	0.0318	0.0318	100	RQM
PCB-26	22:10	157772	1.05	1.1255	0.9663	0.9663	0.0305	0.0305	96.63	
PCB-29 (C26)	22:10	157772	1.05	1.1255	0.9663	0.9663	0.0305	0.0305	96.63	
PCB-25	22:23	97778	1.07	1.2728	0.5295	0.5295	0.0270	0.0270	106	
PCB-31	22:41	84854	0.99	1.1532	0.5072	0.5072	0.0298	0.0298	101	
PCB-20	23:00	163294	1.11	1.1718	0.9605	0.9605	0.0293	0.0293	96.05	
PCB-28 (C20)	23:00	163294	1.11	1.1718	0.9605	0.9605	0.0293	0.0293	96.05	
PCB-21	23:13	147710	1.00	1.0746	0.9475	0.9475	0.0320	0.0320	94.75	M
PCB-33 (C21)	23:13	147710	1.00	1.0746	0.9475	0.9475	0.0320	0.0320	94.75	M
PCB-22	23:36	87442	1.05	1.1932	0.5051	0.5051	0.0288	0.0288	101	M
PCB-36	25:10	76826	1.02	1.1071	0.4783	0.4783	0.0310	0.0310	95.67	
PCB-39	25:32	81144	0.96	1.1581	0.4829	0.4829	0.0297	0.0297	96.59	
PCB-38	26:07	76168	0.89	1.0843	0.4842	0.4842	0.0317	0.0317	96.84	
PCB-35	26:35	86063	1.10	1.1297	0.5251	0.5251	0.0304	0.0304	105	
PCB-37	26:58	90285	1.03	1.1435	0.5442	0.5442	0.0300	0.0300	109	
S Total Tetrachlorobiphenyls					21.5	21.3	0.0571	0.0571		RQ
D PCB-54L	20:13	3394991	0.79	0.5562	102.5	102.5	0.0371	0.0371	102	
* PCB-52L	24:47	8404949	0.80		100.0	100.0				
D PCB-81L	33:41	10352263	0.82	1.2470	98.8	98.8	0.1396	0.1396	98.78	
D PCB-77L	34:15	11078136	0.81	1.3212	99.8	99.8	0.1318	0.1318	99.76	
PCB-54	20:16	17905	0.67	1.2733	0.4142	0.4142	0.0222	0.0222	82.84	
PCB-50	22:25	96228	0.82	0.8578	1.047	1.047	0.0725	0.0725	105	
PCB-53 (C50)	22:25	96228	0.82	0.8578	1.047	1.047	0.0725	0.0725	105	
PCB-45	23:09	86958	0.74	0.8264	0.9820	0.9820	0.0753	0.0753	98.20	M
PCB-51 (C45)	23:09	86958	0.74	0.8264	0.9820	0.9820	0.0753	0.0753	98.20	M
PCB-46	23:24	43592	0.76	0.7101	0.5729	0.5729	0.0876	0.0876	115	M
PCB-52	24:49	45329	0.77	0.9194	0.5029	0.4601	0.0677	0.0677	101	RQ
PCB-43	24:57	115263	0.78	1.0333	1.041	1.041	0.0602	0.0602	104	M
PCB-73 (C43)	24:57	115263	0.78	1.0333	1.041	1.041	0.0602	0.0602	104	M
PCB-49	25:16	121491	0.76	1.0685	1.061	1.061	0.0582	0.0582	106	
PCB-69 (C49)	25:16	121491	0.76	1.0685	1.061	1.061	0.0582	0.0582	106	
PCB-48	25:35	46735	0.76	0.8399	0.5193	0.5193	0.0741	0.0741	104	
PCB-44	25:50	152988	0.76	0.9731	1.467	1.467	0.0639	0.0639	97.82	
PCB-47 (C44)	25:50	152988	0.76	0.9731	1.467	1.467	0.0639	0.0639	97.82	
PCB-65 (C44)	25:50	152988	0.76	0.9731	1.467	1.467	0.0639	0.0639	97.82	
PCB-59	26:08	193231	0.73	1.1853	1.521	1.521	0.0525	0.0525	101	
PCB-62 (C59)	26:08	193231	0.73	1.1853	1.521	1.521	0.0525	0.0525	101	
PCB-75 (C59)	26:08	193231	0.73	1.1853	1.521	1.521	0.0525	0.0525	101	
PCB-42	26:20	43465	0.87	0.8097	0.5010	0.5010	0.0769	0.0769	100	
PCB-40	26:49	153053	0.82	0.8863	1.612	1.612	0.0702	0.0702	107	M
PCB-41 (C40)	26:49	153053	0.82	0.8863	1.612	1.612	0.0702	0.0702	107	M
PCB-71 (C40)	26:49	153053	0.82	0.8863	1.612	1.612	0.0702	0.0702	107	M
PCB-64	27:03	57196	0.77	1.1776	0.5417	0.4533	0.0528	0.0528	108	RQ
PCB-72	27:52	59320	0.66	1.0943	0.5059	0.5059	0.0569	0.0569	101	
PCB-68	28:10	62752	0.87	1.2533	0.4673	0.4673	0.0497	0.0497	93.46	
PCB-57	28:35	54918	0.70	1.0818	0.4738	0.4738	0.0575	0.0575	94.75	
PCB-58	28:50	60758	0.77	1.3253	0.4830	0.4278	0.0470	0.0470	96.59	RQ
PCB-67	28:59	79670	0.84	1.4230	0.5225	0.5225	0.0437	0.0437	104	
PCB-63	29:15	60720	0.75	1.1240	0.5042	0.5042	0.0554	0.0554	101	
PCB-61	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-70 (C61)	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-74 (C61)	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-76 (C61)	29:35	264950	0.80	1.2612	1.960	1.960	0.0493	0.0493	98.02	
PCB-66	29:56	66199	0.79	1.2583	0.4910	0.4910	0.0495	0.0495	98.20	
PCB-55	30:04	77673	0.73	1.3236	0.5476	0.5476	0.0470	0.0470	110	
PCB-56	30:35	74659	0.77	1.2334	0.5649	0.5649	0.0505	0.0505	113	
PCB-60	30:48	60472	0.74	1.1230	0.5025	0.5025	0.0554	0.0554	101	
PCB-80	31:13	74270	0.87	1.3243	0.5234	0.5234	0.0470	0.0470	105	



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:44	77395	0.67	1.4368	0.5027	0.5027	0.0433	0.0433	101	M
PCB-78	33:18	70824	0.66	1.1618	0.5689	0.5689	0.0536	0.0536	114	M
PCB-81	33:43	57961	0.65	1.0802	0.5183	0.5183	0.0588	0.0588	104	M
PCB-77	34:17	64742	0.68	1.0836	0.5393	0.5393	0.0563	0.0563	108	M
S Total Pentachlorobiphenyls					23.1	22.8	0.0196	0.0196		RQ
D PCB-104L	25:44	6938320	1.60	1.2161	102.3	102.3	0.0156	0.0156	102	
* PCB-101L	31:38	5575663	1.59		100.0	100.0				
D PCB-123L	36:16	10371480	1.57	0.9731	99.5	99.5	1.148	1.148	99.48	
D PCB-118L	36:35	10759990	1.57	1.0102	99.4	99.4	1.105	1.105	99.42	
D PCB-114L	37:07	10504311	1.60	0.9949	98.6	98.6	1.122	1.122	98.55	
D PCB-105L	37:46	10177357	1.59	0.9514	99.8	99.8	1.174	1.174	99.85	
* PCB-127L	39:15	10713438	1.58		100.0	100.0				
D PCB-126L	40:51	9958778	1.60	0.9439	98.5	98.5	1.183	1.183	98.48	
PCB-104	25:45	34754	1.77	1.0087	0.4966	0.4966	0.0112	0.0112	99.32	
PCB-96	26:08	38490	1.57	1.0940	0.5071	0.5071	0.0103	0.0103	101	
PCB-103	28:04	30305	1.75	0.8741	0.4997	0.4997	0.0129	0.0129	99.93	M
PCB-94	28:17	23082	1.55	0.7640	0.5235	0.4354	0.0147	0.0147	105	RQMa
PCB-95	28:44	24505	1.55	0.8033	0.5040	0.4397	0.0140	0.0140	101	RQ
PCB-93	28:57	59164	1.70	0.8429	1.012	1.012	0.0134	0.0134	101	
PCB-100 (C93)	28:57	59164	1.70	0.8429	1.012	1.012	0.0134	0.0134	101	
PCB-98	29:08	57283	1.67	0.8262	0.999	0.999	0.0136	0.0136	99.93	M
PCB-102 (C98)	29:08	57283	1.67	0.8262	0.999	0.999	0.0136	0.0136	99.93	M
PCB-88	29:30	58044	1.45	0.8013	1.044	1.044	0.0141	0.0141	104	M
PCB-91 (C88)	29:30	58044	1.45	0.8013	1.044	1.044	0.0141	0.0141	104	M
PCB-84	29:48	25161	1.48	0.7299	0.4968	0.4968	0.0154	0.0154	99.36	M
PCB-89	30:16	27593	1.55	0.7798	0.5718	0.5100	0.0144	0.0144	114	RQ
PCB-121	30:42	40059	1.55	1.2964	0.4829	0.4454	0.008690	0.008690	96.59	RQM
PCB-92	31:05	29937	1.63	0.8546	0.5049	0.5049	0.0132	0.0132	101	
PCB-90	31:39	98736	1.32	0.9550	1.490	1.490	0.0118	0.0118	99.34	M
PCB-101 (C90)	31:39	98736	1.32	0.9550	1.490	1.490	0.0118	0.0118	99.34	M
PCB-113 (C90)	31:39	98736	1.32	0.9550	1.490	1.490	0.0118	0.0118	99.34	M
PCB-83	32:15	57832	1.50	0.8385	0.994	0.994	0.0134	0.0134	99.41	M
PCB-99 (C83)	32:15	57832	1.50	0.8385	0.994	0.994	0.0134	0.0134	99.41	M
PCB-112	32:21	50114	1.73	1.4111	0.5119	0.5119	0.007984	0.007984	102	M
PCB-86	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-87 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-97 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-109 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-119 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-125 (C86)	32:43	211356	1.59	1.0473	2.909	2.909	0.0108	0.0108	96.96	M
PCB-85	33:27	110009	1.53	1.0408	1.523	1.523	0.0108	0.0108	102	
PCB-116 (C85)	33:27	110009	1.53	1.0408	1.523	1.523	0.0108	0.0108	102	
PCB-117 (C85)	33:27	110009	1.53	1.0408	1.523	1.523	0.0108	0.0108	102	
PCB-110	33:42	83392	1.36	1.1919	1.008	1.008	0.009452	0.009452	101	M
PCB-115 (C110)	33:42	83392	1.36	1.1919	1.008	1.008	0.009452	0.009452	101	M
PCB-82	33:57	28943	1.51	0.8303	0.5024	0.5024	0.0136	0.0136	100	
PCB-111	34:21	40194	1.73	1.2125	0.4778	0.4778	0.009291	0.009291	95.55	
PCB-120	34:49	53063	1.50	1.4762	0.5181	0.5181	0.007631	0.007631	104	M
PCB-108	35:56	114382	1.53	1.1405	0.9686	0.9686	0.0349	0.0349	96.86	M
PCB-124 (C108)	35:56	114382	1.53	1.1405	0.9686	0.9686	0.0349	0.0349	96.86	M
PCB-107	36:11	66807	1.70	1.2121	0.5323	0.5323	0.0329	0.0329	106	
PCB-123	36:17	56282	1.68	1.0722	0.5061	0.5061	0.0360	0.0360	101	
PCB-106	36:24	57304	1.76	1.0839	0.5106	0.5106	0.0367	0.0367	102	
PCB-118	36:38	65547	1.45	1.2055	0.5053	0.5053	0.0316	0.0316	101	
PCB-122	36:58	49485	1.43	0.9567	0.4995	0.4995	0.0416	0.0416	99.91	
PCB-114	37:08	55723	1.75	1.0842	0.4893	0.4893	0.0362	0.0362	97.86	
PCB-105	37:48	65478	1.55	1.1879	0.5416	0.5416	0.0346	0.0346	108	
PCB-127	39:16	57517	1.59	1.1394	0.4875	0.4875	0.0350	0.0350	97.51	
PCB-126	40:52	49570	1.50	1.0976	0.4535	0.4535	0.0385	0.0385	90.70	M
S Total Hexachlorobiphenyls					21.0	20.8	0.0233	0.0233		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-155L	31:24	6307321	1.26	1.0851	104.2	104.2	0.0371	0.0371	104	
* PCB-138L	39:43	7044213	1.32		100.0	100.0				
\$ PCB-159L	41:57	4449727	1.28	0.5118	95.5	95.5	1.423	1.423	95.48	a
D PCB-167L	42:43	9105316	1.28	1.2572	102.8	102.8	0.7361	0.7361	103	
D PCB-156L	43:52	17145311	1.29	1.2106	201.1	201.1	0.7644	0.7644	101	
D PCB-157L (C156L)	43:52	17145311	1.29	1.2106	201.1	201.1	0.7644	0.7644	101	
D PCB-169L	47:06	9181390	1.25	1.2439	104.8	104.8	0.7440	0.7440	105	
PCB-155	31:25	28040	1.43	0.9444	0.4707	0.4707	0.005467	0.005467	94.15	
PCB-152	31:35	31058	1.33	0.9895	0.4976	0.4976	0.005218	0.005218	99.53	
PCB-150	31:47	30371	1.33	1.0132	0.4752	0.4752	0.005096	0.005096	95.05	
PCB-136	32:08	33387	1.06	1.0116	0.5233	0.5233	0.005104	0.005104	105	
PCB-145	32:27	31426	1.27	0.9685	0.5145	0.5145	0.005331	0.005331	103	
PCB-148	33:58	24113	1.24	0.7603	0.5028	0.5028	0.006791	0.006791	101	
PCB-135	34:34	45950	1.32	0.7256	1.004	1.004	0.007116	0.007116	100	M
PCB-151 (C135)	34:34	45950	1.32	0.7256	1.004	1.004	0.007116	0.007116	100	M
PCB-154	34:47	23372	1.05	0.8129	0.4558	0.4558	0.006351	0.006351	91.17	M
PCB-144	35:08	26036	1.25	0.7852	0.5257	0.5257	0.006575	0.006575	105	M
PCB-147	35:29	85550	1.43	0.8950	1.079	1.079	0.0318	0.0318	108	M
PCB-149 (C147)	35:29	85550	1.43	0.8950	1.079	1.079	0.0318	0.0318	108	M
PCB-134	35:47	73190	1.39	0.7967	1.037	1.037	0.0357	0.0357	104	
PCB-143 (C134)	35:47	73190	1.39	0.7967	1.037	1.037	0.0357	0.0357	104	
PCB-139	36:04	77045	1.28	0.8769	0.992	0.992	0.0324	0.0324	99.19	
PCB-140 (C139)	36:04	77045	1.28	0.8769	0.992	0.992	0.0324	0.0324	99.19	
PCB-131	36:17	42510	1.37	0.7503	0.6396	0.6396	0.0379	0.0379	128	M
PCB-142	36:25	31461	1.24	0.7507	0.4731	0.4731	0.0379	0.0379	94.62	M
PCB-132	36:44	36598	1.38	0.7489	0.5517	0.5517	0.0380	0.0380	110	
PCB-133	37:15	32377	1.21	0.8096	0.4515	0.4515	0.0351	0.0351	90.30	
PCB-165	37:38	42251	1.13	1.0247	0.4655	0.4655	0.0278	0.0278	93.10	
PCB-146	37:53	42036	1.25	0.9637	0.4924	0.4924	0.0295	0.0295	98.49	
PCB-161	38:01	46946	1.09	1.1288	0.4695	0.4695	0.0252	0.0252	93.91	
PCB-153	38:32	93081	1.35	1.0938	0.9607	0.9607	0.0260	0.0260	96.07	
PCB-168 (C153)	38:32	93081	1.35	1.0938	0.9607	0.9607	0.0260	0.0260	96.07	
PCB-141	38:41	35752	1.24	0.8755	0.5372	0.4610	0.0325	0.0325	107	RQ
PCB-130	39:06	32146	1.13	0.7051	0.5147	0.5147	0.0403	0.0403	103	
PCB-137	39:19	33182	1.29	0.7767	0.4823	0.4823	0.0366	0.0366	96.46	
PCB-164	39:26	39657	1.24	1.0382	0.5052	0.4312	0.0274	0.0274	101	RQ
PCB-129	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-138 (C129)	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-160 (C129)	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-163 (C129)	39:45	164754	1.25	0.9464	1.965	1.965	0.0301	0.0301	98.26	M
PCB-158	40:08	60291	1.30	1.3110	0.5192	0.5192	0.0217	0.0217	104	M
PCB-128	40:58	83902	1.12	0.9829	0.9636	0.9636	0.0289	0.0289	96.36	M
PCB-166 (C128)	40:58	83902	1.12	0.9829	0.9636	0.9636	0.0289	0.0289	96.36	M
PCB-159	41:58	58381	1.13	1.3856	0.4757	0.4757	0.0205	0.0205	95.13	
PCB-162	42:15	55301	1.24	1.2571	0.4966	0.4966	0.0226	0.0226	99.32	M
PCB-167	42:45	51226	1.28	1.1159	0.5042	0.5042	0.0214	0.0214	101	M
PCB-156	43:55	88451	1.30	1.1104	0.9292	0.9292	0.0315	0.0315	92.92	
PCB-157 (C156)	43:55	88451	1.30	1.1104	0.9292	0.9292	0.0315	0.0315	92.92	
PCB-169	47:07	54907	1.08	1.1628	0.5143	0.5143	0.0207	0.0207	103	M
S Total Heptachlorobiphenyls					12.2	11.9	0.002448	0.002448		RQ
D PCB-188L	37:08	7116082	1.05	1.3133	97.2	97.2	0.0479	0.0479	97.22	
* PCB-180L	45:16	5573109	1.10		100.0	100.0				
D PCB-170L	46:31	4764508	1.06	0.8362	102.2	102.2	0.0753	0.0753	102	
D PCB-189L	49:37	11329298	1.05	1.4414	98.9	98.9	0.1878	0.1878	98.87	
PCB-188	37:09	39693	1.04	1.1350	0.4915	0.4915	0.000958	0.000958	98.29	
PCB-179	37:30	46777	0.90	1.4276	0.5516	0.5516	0.000926	0.000926	110	
PCB-184	38:01	38134	1.11	1.3672	0.4695	0.4695	0.000967	0.000967	93.91	
PCB-176	38:21	40584	0.92	1.2331	0.5541	0.5541	0.001072	0.001072	111	
PCB-186	38:49	44732	1.16	1.4737	0.5110	0.5110	0.000897	0.000897	102	
PCB-178	40:12	25284	1.13	0.8946	0.4758	0.4758	0.001477	0.001477	95.15	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-175	40:49	30945	1.15	0.9524	0.5470	0.5470	0.001388	0.001388	109	
PCB-187	41:07	28437	1.05	1.1018	0.4744	0.4345	0.001199	0.001199	94.89	RQ
PCB-182	41:18	24644	0.92	0.9247	0.4486	0.4486	0.001429	0.001429	89.73	
PCB-183	41:44	64294	0.95	0.9825	1.102	1.102	0.001345	0.001345	110	
PCB-185 (C183)	41:44	64294	0.95	0.9825	1.102	1.102	0.001345	0.001345	110	
PCB-174	41:58	30210	1.14	0.9642	0.5275	0.5275	0.001371	0.001371	105	
PCB-177	42:23	24827	1.05	0.9773	0.5151	0.4277	0.001352	0.001352	103	RQM
PCB-181	42:47	25626	1.05	0.9505	0.5072	0.4538	0.001390	0.001390	101	RQ
PCB-171	43:00	60459	0.99	0.9336	1.090	1.090	0.001416	0.001416	109	
PCB-173 (C171)	43:00	60459	0.99	0.9336	1.090	1.090	0.001416	0.001416	109	
PCB-172	44:39	26430	1.21	0.8519	0.5223	0.5223	0.001551	0.001551	104	
PCB-192	44:56	37024	1.15	1.3459	0.4631	0.4631	0.000982	0.000982	92.62	
PCB-180	45:15	66935	0.99	1.1676	0.9651	0.9651	0.001132	0.001132	96.51	
PCB-193 (C180)	45:15	66935	0.99	1.1676	0.9651	0.9651	0.001132	0.001132	96.51	
PCB-191	45:38	35223	1.09	1.2891	0.4600	0.4600	0.001025	0.001025	91.99	
PCB-170	46:33	25755	1.05	1.1865	0.5134	0.4556	0.001421	0.001421	103	RQ
PCB-190	47:03	40117	0.96	1.3322	0.5069	0.5069	0.000992	0.000992	101	
PCB-189	49:37	53094	1.05	0.9633	0.4865	0.4865	0.0271	0.0271	97.30	
S Total Octachlorobiphenyls					5.918	5.838	0.0106	0.0106		RQ
D PCB-202L	42:30	5622444	0.90	0.9818	102.8	102.8	0.0263	0.0263	103	
* PCB-194L	51:44	7949496	0.91		100.0	100.0				
D PCB-205L	52:12	9259085	0.90	1.1786	98.8	98.8	0.0675	0.0675	98.83	
PCB-202	42:32	25714	0.97	1.0359	0.4415	0.4415	0.004243	0.004243	88.30	
PCB-201	43:25	26064	1.00	0.9754	0.4753	0.4753	0.004507	0.004507	95.06	
PCB-204	44:05	29939	0.90	1.0485	0.5078	0.5078	0.004192	0.004192	102	
PCB-197	44:22	31937	0.89	1.1458	0.5363	0.4958	0.003836	0.003836	107	RQM
PCB-200	44:26	25941	0.88	1.0072	0.4581	0.4581	0.004364	0.004364	91.62	
PCB-198	47:14	49584	0.78	0.8698	1.014	1.014	0.005054	0.005054	101	
PCB-199 (C198)	47:14	49584	0.78	0.8698	1.014	1.014	0.005054	0.005054	101	
PCB-196	47:56	21772	0.81	0.7806	0.4960	0.4960	0.005631	0.005631	99.21	M
PCB-203	48:05	26586	0.95	0.9292	0.5089	0.5089	0.004730	0.004730	102	
PCB-195	49:23	31222	0.89	0.8263	0.4480	0.4081	0.0306	0.0306	89.61	RQM
PCB-194	51:47	47820	0.76	0.9735	0.5305	0.5305	0.0260	0.0260	106	M
PCB-205	52:13	50563	1.02	1.0878	0.5020	0.5020	0.0233	0.0233	100	M
S Total Nonachlorobiphenyls					1.638	1.638	0.0828	0.0828		
D PCB-208L	49:09	7500908	0.79	0.9576	98.5	98.5	0.8140	0.8140	98.54	
D PCB-206L	53:57	5499727	0.80	0.6947	99.6	99.6	1.122	1.122	99.59	
PCB-208	49:12	41595	0.81	1.1374	0.4875	0.4875	0.0795	0.0795	97.50	M
PCB-207	50:06	49926	0.75	1.3756	0.5583	0.5583	0.0760	0.0760	112	M
PCB-206	53:59	43449	0.66	1.3346	0.5920	0.5920	0.0930	0.0930	118	M
D PCB-209L	55:35	5278978	0.72	0.6669	99.6	99.6	0.0537	0.0537	99.58	
DCB Decachlorobiphenyl	55:38	28972	0.69	1.1004	0.4987	0.4987	0.0132	0.0132	99.75	
S Polychlorinated biphenyls, Total					103.7	0.4987	0.0268	0.0268		RQ

**QC Flag Legend**

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

61L0.51668P\_00011

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d  
Lims ID: IC L1  
Client ID:  
Sample Type: IC Calib Level: 1  
Inject. Date: 31-May-2024 14:36:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:26:08 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 16:04:19

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:38	11:36	2	0.726	11164084	4532204	3607	9017	1257		
202.0766	11:38	11:36	2	0.726	3512893	1410849	1621	4052	870	3.18(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	2	0.861	10820055	3687990	3607	9017	1022		
202.0766	13:47	13:46	2	0.861	3314313	1128820	1621	4052	696	3.26(2.66-3.60)	
PCB-1											
188.0393	11:39	11:37	2	1.001	66599	27071	128	320	211		
190.0363	11:39	11:37	2	1.001	21025	8467	101	252	84	3.17(2.66-3.60)	
PCB-2											
188.0393	13:38	13:36	2	0.989	62227	19529	128	320	153		
190.0363	13:37	13:36	1	0.988	20215	5681	101	252	56	3.08(2.66-3.60)	
PCB-3											
188.0393	13:48	13:47	2	1.001	64767	22803	128	320	178		
190.0363	13:48	13:47	2	1.001	22496	6864	101	252	68	2.88(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	1	0.877	3636981	1168381	538	1345	2172		
236.0376	14:02	14:02	1	0.877	2267540	732734	221	552	3316	1.60(1.33-1.79)	
PCB-9L											
234.0406	16:01	15:59	2		5513591	1579678	538	1345	2936		
236.0376	16:01	15:59	2		3346284	968408	221	552	4382	1.65(1.33-1.79)	
PCB-15L											
234.0406	19:55	19:54	1	1.244	5904134	1412431	538	1345	2625		
236.0376	19:55	19:54	1	1.244	3579636	868377	221	552	3929	1.65(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-4											
222.0003	14:04	14:02	2	1.002	22626	7167	53	132	135		
223.9974	14:04	14:02	2	1.002	13748	4609	62	155	74	1.65(1.33-1.79)	
PCB-10											
222.0003	14:14	14:13	2	1.014	29842	9323	53	132	176		
223.9974	14:14	14:13	1	1.013	18660	5959	62	155	96	1.60(1.33-1.79)	
PCB-9											
222.0003	16:02	16:00	2	1.142	30028	8278	53	132	156		
223.9974	16:02	16:00	2	1.142	21473	7126	62	155	115	1.40(1.33-1.79)	
PCB-7											
222.0003	16:11	16:10	1	1.153	36288	9445	53	132	178		
223.9974	16:12	16:10	2	1.154	21869	6316	62	155	102	1.66(1.33-1.79)	
PCB-6											
222.0003	16:26	16:25	1	1.171	40226	11330	53	132	214		
223.9974	16:26	16:25	1	1.171	22608	6392	62	155	103	1.78(1.33-1.79)	
PCB-5											
222.0003	16:44	16:43	1	1.192	31604	8701	53	132	164		
223.9974	16:44	16:43	1	1.192	19915	5330	62	155	86	1.59(1.33-1.79)	
PCB-8											
222.0003	16:52	16:50	2	1.202	37559	10534	53	132	199		
223.9974	16:52	16:50	2	1.202	24418	6083	62	155	98	1.54(1.33-1.79)	
PCB-14											
222.0003	18:29	18:28	2	0.928	33908	7989	53	132	151		
223.9974	18:29	18:28	2	0.928	21199	5635	62	155	91	1.60(1.33-1.79)	
PCB-11											
222.0003	19:20	19:18	2	0.970	34222	8269	53	132	156		
223.9974	19:20	19:18	2	0.971	19272	3910	62	155	63	1.78(1.33-1.79)	
PCB-12											
222.0003	19:38	19:36	2	0.985	61969	10519	53	132	198		
223.9974	19:39	19:36	2	0.986	35206	5615	62	155	91	1.76(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:38	19:36	2	0.985	61969	10519	53	132	198		
223.9974	19:39	19:36	2	0.986	35206	5615	62	155	91	1.76(1.33-1.79)	
PCB-15											
222.0003	19:57	19:55	2	1.001	40370	8915	53	132	168		
223.9974	19:56	19:55	1	1.001	23514	5303	62	155	86	1.72(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:08	1	0.840	1897205	520126	418	1045	1244		
269.9986	17:09	17:08	1	0.840	1814585	500455	1834	4585	273	1.05(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:23	2		3112703	738308	418	1045	1766		
269.9986	20:24	20:23	2		2844507	676250	1834	4585	369	1.09(0.88-1.20)	
PCB-31L											
268.0016	22:40	22:38	1		8607254	2000225	1020	2550	1961		
269.9986	22:40	22:38	1		8161977	1873248	713	1782	2627	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:57	26:55	1	1.189	7444868	1502675	1020	2550	1473		
269.9986	26:57	26:55	1	1.189	7063024	1422829	713	1782	1996	1.05(0.88-1.20)	
PCB-19											
255.9613	17:10	17:09	2	1.002	13869	4052	38	95	107		
257.9584	17:10	17:09	2	1.002	13379	3726	1	2	3726	1.04(0.88-1.20)	
PCB-18											
255.9613	19:01	18:59	2	1.109	34338	7429	38	95	196		
257.9584	19:00	18:59	1	1.108	28686	5294	1	2	5294	1.20(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:01	18:59	2	1.109	34338	7429	38	95	196		
257.9584	19:00	18:59	1	1.108	28686	5294	1	2	5294	1.20(0.88-1.20)	
PCB-17											
255.9613	19:27	19:26	1	1.134	11628	3157	38	95	83		
257.9584	19:26	19:26	0	1.133	11539	2725	1	2	2725	1.01(0.88-1.20)	
PCB-27											
255.9613	19:40	19:39	2	1.147	13976	3078	38	95	81		RQ
257.9584	19:40	19:39	2	1.147	16358	4332	1	2	4332	0.85(0.88-1.20)	
Empc Correction					13438	2959	1	2	2959		
PCB-24											
255.9613	19:47	19:46	2	1.154	16997	4146	38	95	109		RQ
Empc Correction					14452	4243	38	95	112		
257.9584	19:47	19:46	2	1.154	13897	4080	1	2	4080	1.22(0.88-1.20)	
PCB-16											
255.9613	19:54	19:53	2	1.161	11069	2941	38	95	77		
257.9584	19:54	19:53	2	1.161	9853	2085	1	2	2085	1.12(0.88-1.20)	
PCB-32											
255.9613	20:25	20:23	2	1.191	16940	3780	38	95	99		
257.9584	20:25	20:23	2	1.191	17275	4477	1	2	4477	0.98(0.88-1.20)	
PCB-34											
255.9613	21:41	21:39	2	1.265	41836	9374	199	497	47		
257.9584	21:41	21:39	2	1.265	39956	9560	203	507	47	1.05(0.88-1.20)	
PCB-23											
255.9613	21:50	21:48	1	1.273	43162	9588	199	497	48		RQM
Empc Correction					36934	7606	199	497	38		M
257.9584	21:50	21:48	1	1.273	35514	7314	203	507	36	1.22(0.88-1.20)	
PCB-26											
255.9613	22:10	22:08	2	1.293	80639	16985	199	497	85		
257.9584	22:10	22:08	2	1.293	77133	17116	203	507	84	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:10	22:08	2	1.293	80639	16985	199	497	85		
257.9584	22:10	22:08	2	1.293	77133	17116	203	507	84	1.05(0.88-1.20)	
PCB-25											
255.9613	22:23	22:21	2	0.830	50612	10278	199	497	52		
257.9584	22:23	22:21	2	0.830	47166	9876	203	507	49	1.07(0.88-1.20)	

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Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31											
255.9613	22:41	22:40	1	0.842	42270	9782	199	497	49		
257.9584	22:41	22:40	1	0.842	42584	9517	203	507	47	0.99(0.88-1.20)	
PCB-20											
255.9613	23:00	22:58	1	0.853	85757	15845	199	497	80		
257.9584	23:00	22:58	1	0.853	77537	13892	203	507	68	1.11(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	22:58	1	0.853	85757	15845	199	497	80		
257.9584	23:00	22:58	1	0.853	77537	13892	203	507	68	1.11(0.88-1.20)	
PCB-21											
255.9613	23:13	23:07	6	0.862	73767	9550	199	497	48		M
257.9584	23:10	23:07	2	0.859	73943	9215	203	507	45	1.00(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:13	23:07	6	0.862	73767	9550	199	497	48		M
257.9584	23:10	23:07	2	0.859	73943	9215	203	507	45	1.00(0.88-1.20)	M
PCB-22											
255.9613	23:36	23:35	1	0.876	44761	9832	199	497	49		M
257.9584	23:36	23:35	1	0.876	42681	10672	203	507	53	1.05(0.88-1.20)	M
PCB-36											
255.9613	25:10	25:09	1	0.934	38841	6743	199	497	34		
257.9584	25:09	25:09	1	0.934	37985	8229	203	507	41	1.02(0.88-1.20)	
PCB-39											
255.9613	25:32	25:30	1	0.947	39820	9136	199	497	46		
257.9584	25:32	25:30	1	0.947	41324	9398	203	507	46	0.96(0.88-1.20)	
PCB-38											
255.9613	26:07	26:05	2	0.969	35932	7439	199	497	37		
257.9584	26:06	26:05	1	0.969	40236	8011	203	507	39	0.89(0.88-1.20)	
PCB-35											
255.9613	26:35	26:32	2	0.986	45018	8806	199	497	44		
257.9584	26:35	26:32	3	0.987	41045	6646	203	507	33	1.10(0.88-1.20)	
PCB-37											
255.9613	26:58	26:57	1	1.001	45729	8804	199	497	44		
257.9584	26:58	26:57	1	1.001	44556	9167	203	507	45	1.03(0.88-1.20)	
PCB-54L											
301.9626	20:13	20:12	1	0.816	1499419	373718	75	187	4983		
303.9597	20:13	20:12	1	0.816	1895572	464452	42	105	11058	0.79(0.65-0.89)	
PCB-52L											
301.9626	24:47	24:46	1		3741565	815378	637	1592	1280		
303.9597	24:47	24:46	1		4663384	1019625	641	1602	1591	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:41	33:41	1	1.359	4654546	911958	637	1592	1432		
303.9597	33:41	33:41	1	1.359	5697717	1107589	641	1602	1728	0.82(0.65-0.89)	
PCB-77L											
301.9626	34:15	34:14	1	1.382	4945005	941207	637	1592	1478		
303.9597	34:15	34:14	1	1.382	6133131	1159647	641	1602	1809	0.81(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54											
289.9224	20:16	20:13	2	1.000	7157	1991	30	75	66		
291.9194	20:16	20:13	2	1.000	10748	2683	65	162	41	0.67(0.65-0.89)	
PCB-50											
289.9224	22:25	22:24	1	1.109	43317	9831	199	497	49		
291.9194	22:25	22:24	1	1.109	52911	12334	314	785	39	0.82(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:25	22:24	1	1.109	43317	9831	199	497	49		
291.9194	22:25	22:24	1	1.109	52911	12334	314	785	39	0.82(0.65-0.89)	
PCB-45											
289.9224	23:09	23:08	1	1.145	36905	5597	199	497	28		M
291.9194	23:10	23:08	1	1.145	50053	6290	314	785	20	0.74(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:09	23:08	1	1.145	36905	5597	199	497	28		M
291.9194	23:10	23:08	1	1.145	50053	6290	314	785	20	0.74(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:22	2	1.157	18791	3719	199	497	19		M
291.9194	23:23	23:22	1	1.157	24801	5066	314	785	16	0.76(0.65-0.89)	M
PCB-52											
289.9224	24:49	24:47	1	1.227	23937	5662	199	497	28		RQ
	Empc Correction				19719	4104	199	497	21		
291.9194	24:49	24:47	1	1.227	25610	5331	314	785	17	0.93(0.65-0.89)	
PCB-43											
289.9224	24:57	24:56	1	1.234	50336	6169	199	497	31		M
291.9194	24:57	24:56	1	1.234	64927	9054	314	785	29	0.78(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:57	24:56	1	1.234	50336	6169	199	497	31		M
291.9194	24:57	24:56	1	1.234	64927	9054	314	785	29	0.78(0.65-0.89)	M
PCB-49											
289.9224	25:16	25:14	2	1.250	52598	8467	199	497	43		
291.9194	25:16	25:14	2	1.250	68893	10437	314	785	33	0.76(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:16	25:14	2	1.250	52598	8467	199	497	43		
291.9194	25:16	25:14	2	1.250	68893	10437	314	785	33	0.76(0.65-0.89)	
PCB-48											
289.9224	25:35	25:33	1	1.265	20161	4831	199	497	24		
291.9194	25:34	25:33	1	1.264	26574	5612	314	785	18	0.76(0.65-0.89)	
PCB-44											
289.9224	25:50	25:48	2	1.278	66170	11476	199	497	58		
291.9194	25:50	25:48	2	1.278	86818	13668	314	785	44	0.76(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:50	25:48	2	1.278	66170	11476	199	497	58		
291.9194	25:50	25:48	2	1.278	86818	13668	314	785	44	0.76(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:50	25:48	2	1.278	66170	11476	199	497	58		
291.9194	25:50	25:48	2	1.278	86818	13668	314	785	44	0.76(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-59											
289.9224	26:08	26:06	1	1.292	81291	11624	199	497	58		
291.9194	26:08	26:06	1	1.292	111940	15807	314	785	50	0.73(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:08	26:06	1	1.292	81291	11624	199	497	58		
291.9194	26:08	26:06	1	1.292	111940	15807	314	785	50	0.73(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:08	26:06	1	1.292	81291	11624	199	497	58		
291.9194	26:08	26:06	1	1.292	111940	15807	314	785	50	0.73(0.65-0.89)	
PCB-42											
289.9224	26:20	26:18	1	1.302	20234	3794	199	497	19		
291.9194	26:21	26:18	2	1.303	23231	5239	314	785	17	0.87(0.65-0.89)	
PCB-40											
289.9224	26:49	26:48	1	1.326	69186	10548	199	497	53		M
291.9194	26:49	26:48	1	1.326	83867	12246	314	785	39	0.82(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:49	26:48	1	1.326	69186	10548	199	497	53		M
291.9194	26:49	26:48	1	1.326	83867	12246	314	785	39	0.82(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:49	26:48	1	1.326	69186	10548	199	497	53		M
291.9194	26:49	26:48	1	1.326	83867	12246	314	785	39	0.82(0.65-0.89)	M
PCB-64											
289.9224	27:03	27:01	2	1.338	24882	5123	199	497	26		RQ
291.9194	27:03	27:01	2	1.338	43465	8272	314	785	26	0.57(0.65-0.89)	
Empc Correction					32314	6653	314	785	21		
PCB-72											
289.9224	27:52	27:51	1	0.827	23660	4853	199	497	24		
291.9194	27:53	27:51	1	0.828	35660	7770	314	785	25	0.66(0.65-0.89)	
PCB-68											
289.9224	28:10	28:09	1	0.836	29228	5246	199	497	26		
291.9194	28:10	28:09	1	0.836	33524	7459	314	785	24	0.87(0.65-0.89)	
PCB-57											
289.9224	28:35	28:34	1	0.848	22605	4646	199	497	23		
291.9194	28:36	28:34	2	0.849	32313	7342	314	785	23	0.70(0.65-0.89)	
PCB-58											
289.9224	28:50	28:48	1	0.856	34260	6621	199	497	33		RQ
Empc Correction					26431	6036	199	497	30		
291.9194	28:50	28:48	1	0.856	34327	7839	314	785	25	1.00(0.65-0.89)	
PCB-67											
289.9224	28:59	28:58	1	0.860	36337	7141	199	497	36		
291.9194	29:00	28:58	1	0.861	43333	8863	314	785	28	0.84(0.65-0.89)	
PCB-63											
289.9224	29:15	29:14	1	0.868	25964	5331	199	497	27		
291.9194	29:15	29:14	1	0.868	34756	7115	314	785	23	0.75(0.65-0.89)	
PCB-61											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-70 (C61)											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:35	29:34	1	0.878	117443	12223	199	497	61		
291.9194	29:35	29:34	1	0.878	147507	16236	314	785	52	0.80(0.65-0.89)	
PCB-66											
289.9224	29:56	29:53	2	0.888	29166	6364	199	497	32		
291.9194	29:54	29:53	1	0.888	37033	7665	314	785	24	0.79(0.65-0.89)	
PCB-55											
289.9224	30:04	30:03	1	0.892	32723	6737	199	497	34		
291.9194	30:04	30:03	1	0.892	44950	9943	314	785	32	0.73(0.65-0.89)	
PCB-56											
289.9224	30:35	30:33	1	0.908	32555	7191	199	497	36		
291.9194	30:36	30:33	2	0.908	42104	8328	314	785	27	0.77(0.65-0.89)	
PCB-60											
289.9224	30:48	30:46	1	0.914	25722	4832	199	497	24		
291.9194	30:47	30:46	1	0.914	34750	6086	314	785	19	0.74(0.65-0.89)	
PCB-80											
289.9224	31:13	31:11	2	0.927	34507	5763	199	497	29		
291.9194	31:12	31:11	1	0.926	39763	7381	314	785	24	0.87(0.65-0.89)	
PCB-79											
289.9224	32:44	32:42	1	0.972	31187	5973	199	497	30		M
291.9194	32:44	32:42	1	0.972	46208	8189	314	785	26	0.67(0.65-0.89)	M
PCB-78											
289.9224	33:18	33:15	3	0.989	28048	5337	199	497	27		M
291.9194	33:17	33:15	1	0.988	42776	7596	314	785	24	0.66(0.65-0.89)	M
PCB-81											
289.9224	33:43	33:42	1	1.001	22843	4819	199	497	24		M
291.9194	33:44	33:42	1	1.001	35118	6555	314	785	21	0.65(0.65-0.89)	M
PCB-77											
289.9224	34:17	34:16	1	1.001	26136	5183	199	497	26		M
291.9194	34:16	34:16	0	1.000	38606	7312	314	785	23	0.68(0.65-0.89)	M
PCB-104L											
337.9207	25:44	25:42	1	0.813	4271749	931912	57	142	16349		
339.9178	25:44	25:42	1	0.813	2666571	577090	28	70	20610	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:38	31:37	1		3426318	688499	57	142	12079		
339.9178	31:38	31:37	1		2149345	430401	28	70	15371	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:16	36:15	2	1.147	6332260	1258157	5590	13975	225		
339.9178	36:16	36:15	2	1.147	4039220	787783	3730	9325	211	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:35	36:34	1	1.157	6572835	1259467	5590	13975	225		
339.9178	36:35	36:34	1	1.157	4187155	811700	3730	9325	218	1.57(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.173	6471551	1249296	5590	13975	223		
339.9178	37:07	37:06	1	1.173	4032760	764773	3730	9325	205	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:46	37:45	2	1.194	6250012	1185355	5590	13975	212		
339.9178	37:46	37:45	2	1.194	3927345	735373	3730	9325	197	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:15	39:14	1		6568825	1288310	5590	13975	230		
339.9178	39:15	39:14	1		4144613	798182	3730	9325	214	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:50	1	1.292	6132942	1148994	5590	13975	206		
339.9178	40:51	40:50	1	1.292	3825836	718408	3730	9325	193	1.60(1.32-1.78)	
PCB-104											
325.8804	25:45	25:44	1	1.000	22188	4465	16	40	279		
327.8775	25:45	25:44	1	1.000	12566	3520	52	130	68	1.77(1.32-1.78)	
PCB-96											
325.8804	26:08	26:06	1	1.015	23514	6543	16	40	409		
327.8775	26:07	26:06	1	1.015	14976	3810	52	130	73	1.57(1.32-1.78)	
PCB-103											
325.8804	28:04	28:02	2	1.091	19294	4174	16	40	261		M
327.8775	28:04	28:02	2	1.091	11011	2101	52	130	40	1.75(1.32-1.78)	M
PCB-94											
325.8804	28:17	28:16	1	1.099	18701	4888	16	40	306		RQMa
	Empc Correction				14030	2690	16	40	168		M
327.8775	28:17	28:16	1	1.099	9052	1736	52	130	33	2.07(1.32-1.78)	
PCB-95											
325.8804	28:44	28:42	2	1.117	18479	4151	16	40	259		RQ
	Empc Correction				14895	3613	16	40	226		
327.8775	28:43	28:42	1	1.116	9610	2331	52	130	45	1.92(1.32-1.78)	
PCB-93											
325.8804	28:57	28:55	1	1.125	37232	7676	16	40	480		
327.8775	28:57	28:55	1	1.125	21932	4483	52	130	86	1.70(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:57	28:55	1	1.125	37232	7676	16	40	480		
327.8775	28:57	28:55	1	1.125	21932	4483	52	130	86	1.70(1.32-1.78)	
PCB-98											
325.8804	29:08	29:04	4	1.132	35854	4904	16	40	307		M
327.8775	29:05	29:04	1	1.130	21429	3183	52	130	61	1.67(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:08	29:04	4	1.132	35854	4904	16	40	307		M
327.8775	29:05	29:04	1	1.130	21429	3183	52	130	61	1.67(1.32-1.78)	M
PCB-88											
325.8804	29:30	29:33	-4	1.146	34391	4768	16	40	298		M
327.8775	29:29	29:33	-5	1.146	23653	3028	52	130	58	1.45(1.32-1.78)	M

	Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-91 (C88)											M
	325.8804	29:30	29:33	-4	1.146	34391	4768	16	40	298		M
	327.8775	29:29	29:33	-5	1.146	23653	3028	52	130	58	1.45(1.32-1.78)	M
	PCB-84											M
	325.8804	29:48	29:47	1	1.158	15027	2961	16	40	185		
	327.8775	29:46	29:47	-1	1.157	10134	1937	52	130	37	1.48(1.32-1.78)	M
	PCB-89											RQ
	325.8804	30:16	30:16	1	1.177	20119	3570	16	40	223		
		Empc Correction				16772	3456	16	40	216		
	327.8775	30:18	30:16	2	1.178	10821	2230	52	130	43	1.86(1.32-1.78)	
	PCB-121											RQM
	325.8804	30:42	30:41	1	1.193	24350	4810	16	40	301		M
	327.8775	30:42	30:41	1	1.193	19089	4968	52	130	96	1.28(1.32-1.78)	
		Empc Correction				15709	3103	52	130	60		
	PCB-92											
	325.8804	31:05	31:03	1	0.857	18551	3313	16	40	207		
	327.8775	31:05	31:03	1	0.857	11386	2282	52	130	44	1.63(1.32-1.78)	
	PCB-90											M
	325.8804	31:39	31:37	1	1.230	56246	9592	16	40	600		
	327.8775	31:39	31:37	1	1.230	42490	7411	52	130	143	1.32(1.32-1.78)	M
	PCB-101 (C90)											M
	325.8804	31:39	31:37	1	1.230	56246	9592	16	40	600		
	327.8775	31:39	31:37	1	1.230	42490	7411	52	130	143	1.32(1.32-1.78)	M
	PCB-113 (C90)											M
	325.8804	31:39	31:37	1	1.230	56246	9592	16	40	600		
	327.8775	31:39	31:37	1	1.230	42490	7411	52	130	143	1.32(1.32-1.78)	M
	PCB-83											M
	325.8804	32:15	32:13	1	1.253	34703	4538	16	40	284		M
	327.8775	32:15	32:13	2	1.254	23129	3398	52	130	65	1.50(1.32-1.78)	
	PCB-99 (C83)											M
	325.8804	32:15	32:13	1	1.253	34703	4538	16	40	284		M
	327.8775	32:15	32:13	2	1.254	23129	3398	52	130	65	1.50(1.32-1.78)	
	PCB-112											M
	325.8804	32:21	32:20	1	1.257	31739	5637	16	40	352		M
	327.8775	32:18	32:20	-2	1.256	18375	2885	52	130	55	1.73(1.32-1.78)	M
	PCB-86											M
	325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
	327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
	PCB-87 (C86)											M
	325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
	327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
	PCB-97 (C86)											M
	325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
	327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
	PCB-109 (C86)											M
	325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
	327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:43	32:42	1	1.272	129704	14317	16	40	895		M
327.8775	32:43	32:42	1	1.272	81652	8304	52	130	160	1.59(1.32-1.78)	M
PCB-85											
325.8804	33:27	33:25	1	1.300	66488	8141	16	40	509		
327.8775	33:26	33:25	1	1.299	43521	5451	52	130	105	1.53(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:27	33:25	1	1.300	66488	8141	16	40	509		
327.8775	33:26	33:25	1	1.299	43521	5451	52	130	105	1.53(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:27	33:25	1	1.300	66488	8141	16	40	509		
327.8775	33:26	33:25	1	1.299	43521	5451	52	130	105	1.53(1.32-1.78)	
PCB-110											M
325.8804	33:42	33:37	5	1.310	48048	5988	16	40	374		M
327.8775	33:40	33:37	3	1.308	35344	4710	52	130	91	1.36(1.32-1.78)	
PCB-115 (C110)											M
325.8804	33:42	33:37	5	1.310	48048	5988	16	40	374		M
327.8775	33:40	33:37	3	1.308	35344	4710	52	130	91	1.36(1.32-1.78)	
PCB-82											
325.8804	33:57	33:55	1	1.319	17417	3116	16	40	195		
327.8775	33:57	33:55	2	1.320	11526	2309	52	130	44	1.51(1.32-1.78)	
PCB-111											
325.8804	34:21	34:19	2	1.335	25493	4795	16	40	300		
327.8775	34:19	34:19	0	1.334	14701	2930	52	130	56	1.73(1.32-1.78)	
PCB-120											M
325.8804	34:49	34:47	2	1.353	31833	6490	16	40	406		
327.8775	34:48	34:47	1	1.353	21230	4518	52	130	87	1.50(1.32-1.78)	M
PCB-108											M
325.8804	35:56	35:55	1	1.396	69109	12661	149	372	85		M
327.8775	35:56	35:55	1	1.396	45273	9267	167	417	55	1.53(1.32-1.78)	
PCB-124 (C108)											M
325.8804	35:56	35:55	1	1.396	69109	12661	149	372	85		M
327.8775	35:56	35:55	1	1.396	45273	9267	167	417	55	1.53(1.32-1.78)	
PCB-107											
325.8804	36:11	36:09	2	1.406	42100	7332	149	372	49		
327.8775	36:11	36:09	2	1.406	24707	4629	167	417	28	1.70(1.32-1.78)	
PCB-123											
325.8804	36:17	36:16	1	1.000	35275	6618	149	372	44		
327.8775	36:18	36:16	2	1.001	21007	4160	167	417	25	1.68(1.32-1.78)	
PCB-106											
325.8804	36:24	36:23	1	1.004	36546	7274	149	372	49		
327.8775	36:24	36:23	1	1.004	20758	4860	167	417	29	1.76(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118											
325.8804	36:38	36:36	2	1.001	38751	7093	149	372	48		
327.8775	36:38	36:36	2	1.001	26796	4714	167	417	28	1.45(1.32-1.78)	
PCB-122											
325.8804	36:58	36:56	2	1.010	29111	6122	149	372	41		
327.8775	36:59	36:56	2	1.011	20374	3860	167	417	23	1.43(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	1	1.001	35470	7088	149	372	48		
327.8775	37:08	37:08	0	1.000	20253	4312	167	417	26	1.75(1.32-1.78)	
PCB-105											
325.8804	37:48	37:46	2	1.001	39841	7999	149	372	54		
327.8775	37:46	37:46	0	1.000	25637	4872	167	417	29	1.55(1.32-1.78)	
PCB-127											
325.8804	39:16	39:15	2	1.040	35291	7541	149	372	51		
327.8775	39:15	39:15	1	1.039	22226	4343	167	417	26	1.59(1.32-1.78)	
PCB-126											
325.8804	40:52	40:52	1	1.001	29722	5954	149	372	40		M
327.8775	40:52	40:52	1	1.001	19848	4395	167	417	26	1.50(1.32-1.78)	M
PCB-155L											
371.8817	31:24	31:23	1	0.791	3521584	727127	112	280	6492		
373.8788	31:24	31:23	1	0.791	2785737	570559	68	170	8391	1.26(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:41	2		4003503	758289	3018	7545	251		
373.8788	39:43	39:41	2		3040710	578967	1932	4830	300	1.32(1.05-1.43)	
PCB-159L											
371.8817	41:57	41:56	1	0.982	4449727	849985	3018	7545	282		a
373.8788	41:57	41:56	1	0.982	3485772	651633	1932	4830	337	1.28(0.00-0.00)	a
PCB-167L											
371.8817	42:43	42:42	1	1.076	5120342	952633	3018	7545	316		
373.8788	42:43	42:42	1	1.076	3984974	746682	1932	4830	386	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:52	43:51	2	1.105	9663977	1300347	3018	7545	431		
373.8788	43:52	43:51	2	1.105	7481334	1015992	1932	4830	526	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:52	43:51	2	1.105	9663977	1300347	3018	7545	431		
373.8788	43:52	43:51	2	1.105	7481334	1015992	1932	4830	526	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:06	47:05	1	1.186	5098359	941799	3018	7545	312		
373.8788	47:06	47:05	1	1.186	4083031	738055	1932	4830	382	1.25(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	1	1.001	16517	4067	26	65	156		
361.8385	31:25	31:25	1	1.001	11523	2696	1	2	2696	1.43(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.006	17736	3113	26	65	120		
361.8385	31:38	31:36	2	1.007	13322	2954	1	2	2954	1.33(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-150											
359.8415	31:47	31:46	1	1.012	17358	3610	26	65	139		
361.8385	31:47	31:46	1	1.012	13013	2675	1	2	2675	1.33(1.05-1.43)	
PCB-136											
359.8415	32:08	32:08	1	1.024	17205	3629	26	65	140		
361.8385	32:10	32:08	2	1.024	16182	3602	1	2	3602	1.06(1.05-1.43)	
PCB-145											
359.8415	32:27	32:25	1	1.033	17590	4701	26	65	181		
361.8385	32:25	32:25	0	1.033	13836	2630	1	2	2630	1.27(1.05-1.43)	
PCB-148											
359.8415	33:58	33:57	1	1.082	13361	2678	26	65	103		
361.8385	33:59	33:57	2	1.082	10752	2090	1	2	2090	1.24(1.05-1.43)	
PCB-135											
359.8415	34:34	34:32	1	1.101	26170	3099	26	65	119		M
361.8385	34:32	34:32	0	1.100	19780	2783	1	2	2783	1.32(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:34	34:32	1	1.101	26170	3099	26	65	119		M
361.8385	34:32	34:32	0	1.100	19780	2783	1	2	2783	1.32(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	0	1.108	11960	2487	26	65	96		M
361.8385	34:48	34:47	1	1.108	11412	2453	1	2	2453	1.05(1.05-1.43)	M
PCB-144											
359.8415	35:08	35:06	2	1.119	14483	2593	26	65	100		M
361.8385	35:07	35:06	1	1.119	11553	2534	1	2	2534	1.25(1.05-1.43)	M
PCB-147											
359.8415	35:29	35:27	2	1.130	50375	10028	75	187	134		M
361.8385	35:29	35:27	2	1.130	35175	7097	87	217	82	1.43(1.05-1.43)	M
PCB-149 (C147)											
359.8415	35:29	35:27	2	1.130	50375	10028	75	187	134		M
361.8385	35:29	35:27	2	1.130	35175	7097	87	217	82	1.43(1.05-1.43)	M
PCB-134											
359.8415	35:47	35:45	2	1.140	42616	4557	75	187	61		
361.8385	35:48	35:45	2	1.140	30574	3569	87	217	41	1.39(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:47	35:45	2	1.140	42616	4557	75	187	61		
361.8385	35:48	35:45	2	1.140	30574	3569	87	217	41	1.39(1.05-1.43)	
PCB-139											
359.8415	36:04	36:04	0	1.148	43246	7993	75	187	107		
361.8385	36:04	36:04	0	1.148	33799	6612	87	217	76	1.28(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:04	36:04	0	1.148	43246	7993	75	187	107		
361.8385	36:04	36:04	0	1.148	33799	6612	87	217	76	1.28(1.05-1.43)	
PCB-131											
359.8415	36:17	36:15	2	1.156	24575	4053	75	187	54		M
361.8385	36:15	36:15	0	1.155	17935	3791	87	217	44	1.37(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-142											M
359.8415	36:25	36:24	1	1.160	17385	3678	75	187	49		M
361.8385	36:26	36:24	2	1.160	14076	2525	87	217	29	1.24(1.05-1.43)	
PCB-132											
359.8415	36:44	36:43	1	1.170	21243	3616	75	187	48		
361.8385	36:44	36:43	1	1.170	15355	3115	87	217	36	1.38(1.05-1.43)	
PCB-133											
359.8415	37:15	37:14	1	1.186	17759	3518	75	187	47		
361.8385	37:15	37:14	1	1.186	14618	3267	87	217	38	1.21(1.05-1.43)	
PCB-165											
359.8415	37:38	37:37	2	0.881	22369	4212	75	187	56		
361.8385	37:37	37:37	0	0.880	19882	4015	87	217	46	1.13(1.05-1.43)	
PCB-146											
359.8415	37:53	37:52	1	0.887	23392	4679	75	187	62		
361.8385	37:53	37:52	1	0.887	18644	3732	87	217	43	1.25(1.05-1.43)	
PCB-161											
359.8415	38:01	38:00	2	0.890	24500	4544	75	187	61		
361.8385	38:01	38:00	2	0.890	22446	4887	87	217	56	1.09(1.05-1.43)	
PCB-153											
359.8415	38:32	38:30	2	0.902	53478	7444	75	187	99		
361.8385	38:32	38:30	2	0.902	39603	6435	87	217	74	1.35(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:32	38:30	2	0.902	53478	7444	75	187	99		
361.8385	38:32	38:30	2	0.902	39603	6435	87	217	74	1.35(1.05-1.43)	
PCB-141											RQ
359.8415	38:41	38:41	1	0.906	25703	4580	75	187	61		
	Empc Correction				19791	4855	75	187	65		
361.8385	38:42	38:41	2	0.906	15961	3916	87	217	45	1.61(1.05-1.43)	
PCB-130											
359.8415	39:06	39:05	1	0.915	17051	3420	75	187	46		
361.8385	39:07	39:05	2	0.916	15095	3034	87	217	35	1.13(1.05-1.43)	
PCB-137											
359.8415	39:19	39:18	1	0.920	18700	3812	75	187	51		
361.8385	39:19	39:18	1	0.920	14482	4356	87	217	50	1.29(1.05-1.43)	
PCB-164											RQ
359.8415	39:26	39:26	0	0.923	21953	4659	75	187	62		
361.8385	39:27	39:26	2	0.924	24511	3765	87	217	43	0.90(1.05-1.43)	
	Empc Correction				17704	3757	87	217	43		
PCB-129											M
359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M
PCB-138 (C129)											M
359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M
PCB-160 (C129)											M
359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-163 (C129)											M
359.8415	39:45	39:44	1	0.930	91627	10000	75	187	133		M
361.8385	39:45	39:44	2	0.931	73127	8013	87	217	92	1.25(1.05-1.43)	M
PCB-158											M
359.8415	40:08	40:07	2	0.940	34022	6214	75	187	83		M
361.8385	40:07	40:07	1	0.939	26269	5353	87	217	62	1.30(1.05-1.43)	M
PCB-128											M
359.8415	40:58	40:57	1	0.959	44274	6389	75	187	85		M
361.8385	40:59	40:57	2	0.959	39628	5757	87	217	66	1.12(1.05-1.43)	
PCB-166 (C128)											M
359.8415	40:58	40:57	1	0.959	44274	6389	75	187	85		M
361.8385	40:59	40:57	2	0.959	39628	5757	87	217	66	1.12(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.982	30925	5908	75	187	79		
361.8385	42:00	41:58	2	0.983	27456	5565	87	217	64	1.13(1.05-1.43)	
PCB-162											M
359.8415	42:15	42:15	0	0.989	30600	5223	75	187	70		
361.8385	42:15	42:15	0	0.989	24701	4629	87	217	53	1.24(1.05-1.43)	M
PCB-167											M
359.8415	42:45	42:44	1	1.001	28743	5226	75	187	70		
361.8385	42:46	42:44	2	1.001	22483	3790	87	217	44	1.28(1.05-1.43)	M
PCB-156											
359.8415	43:55	43:53	2	1.001	49993	6570	75	187	88		
361.8385	43:54	43:53	1	1.001	38458	5239	87	217	60	1.30(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:55	43:53	2	1.001	49993	6570	75	187	88		
361.8385	43:54	43:53	1	1.001	38458	5239	87	217	60	1.30(1.05-1.43)	
PCB-169											M
359.8415	47:07	47:06	1	1.001	28472	4838	75	187	65		
361.8385	47:08	47:06	2	1.001	26435	4107	87	217	47	1.08(1.05-1.43)	M
PCB-188L											
405.8428	37:08	37:07	1	0.820	3650355	708318	219	547	3234		
407.8398	37:08	37:07	1	0.820	3465727	671924	40	100	16798	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:16	45:15	1		2921128	536267	219	547	2449		
407.8398	45:16	45:15	1		2651981	491396	40	100	12285	1.10(0.89-1.21)	
PCB-170L											
405.8428	46:31	46:30	1	1.028	2449728	456817	219	547	2086		
407.8398	46:31	46:30	1	1.028	2314780	432860	40	100	10822	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.096	5793890	1055058	714	1785	1478		
407.8398	49:37	49:37	0	1.096	5535408	1012487	859	2147	1179	1.05(0.89-1.21)	
PCB-188											
393.8025	37:09	37:08	1	1.001	20249	4207	4	10	1052		
395.7995	37:09	37:08	1	1.001	19444	3592	2	5	1796	1.04(0.89-1.21)	

	Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags	
	PCB-179												
	393.8025	37:30	37:28	2	1.010	22112	4623	4	10	1156			
	395.7995	37:30	37:28	2	1.010	24665	4621	2	5	2311	0.90(0.89-1.21)		
	PCB-184												
	393.8025	38:01	38:00	2	1.024	20060	3448	4	10	862			
	395.7995	38:01	38:00	2	1.024	18074	3546	2	5	1773	1.11(0.89-1.21)		
	PCB-176												
	393.8025	38:21	38:21	0	1.033	19432	4183	4	10	1046			
	395.7995	38:21	38:21	0	1.033	21152	3716	2	5	1858	0.92(0.89-1.21)		
	PCB-186												
	393.8025	38:49	38:48	2	1.046	24006	4770	4	10	1193			
	395.7995	38:49	38:48	2	1.046	20726	3450	2	5	1725	1.16(0.89-1.21)		
	PCB-178												
	393.8025	40:12	40:11	1	1.083	13403	2484	4	10	621			
	395.7995	40:12	40:11	1	1.083	11881	2655	2	5	1328	1.13(0.89-1.21)		
	PCB-175												
	393.8025	40:49	40:49	0	1.100	16575	3528	4	10	882			
	395.7995	40:50	40:49	1	1.100	14370	2591	2	5	1296	1.15(0.89-1.21)		
	PCB-187												
	393.8025	41:07	41:05	2	1.107	17180	3179	4	10	795		RQ	
		Empc Correction				14565	2642	4	10	661			
	395.7995	41:05	41:05	0	1.107	13872	2517	2	5	1259	1.24(0.89-1.21)		
	PCB-182												
	393.8025	41:18	41:18	1	1.113	11841	2710	4	10	678			
	395.7995	41:17	41:18	-1	1.112	12803	2552	2	5	1276	0.92(0.89-1.21)		
	PCB-183												
	393.8025	41:44	41:42	2	1.124	31376	3239	4	10	810			
	395.7995	41:43	41:42	1	1.124	32918	3985	2	5	1993	0.95(0.89-1.21)		
	PCB-185 (C183)												
	393.8025	41:44	41:42	2	1.124	31376	3239	4	10	810			
	395.7995	41:43	41:42	1	1.124	32918	3985	2	5	1993	0.95(0.89-1.21)		
	PCB-174												
	393.8025	41:58	41:56	2	1.130	16111	4046	4	10	1012			
	395.7995	41:57	41:56	1	1.130	14099	2820	2	5	1410	1.14(0.89-1.21)		
	PCB-177												
	393.8025	42:23	42:22	1	1.142	17793	3564	4	10	891		RQM M	
		Empc Correction				12716	2714	4	10	679			
	395.7995	42:24	42:22	2	1.142	12111	2585	2	5	1293	1.47(0.89-1.21)		
	PCB-181												
	393.8025	42:47	42:45	2	1.152	13126	3219	4	10	805		RQ	
	395.7995	42:46	42:45	1	1.152	15511	2800	2	5	1400	0.85(0.89-1.21)		
		Empc Correction				12500	3065	2	5	1533			
	PCB-171												
	393.8025	43:00	42:59	2	1.158	30123	4934	4	10	1234			
	395.7995	43:00	42:59	2	1.158	30336	5756	2	5	2878	0.99(0.89-1.21)		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-173 (C171)											
393.8025	43:00	42:59	2	1.158	30123	4934	4	10	1234		
395.7995	43:00	42:59	2	1.158	30336	5756	2	5	2878	0.99(0.89-1.21)	
PCB-172											
393.8025	44:39	44:37	2	0.900	14459	2787	4	10	697		
395.7995	44:39	44:37	2	0.900	11971	2571	2	5	1286	1.21(0.89-1.21)	
PCB-192											
393.8025	44:56	44:54	2	0.905	19802	3210	4	10	803		
395.7995	44:55	44:54	1	0.905	17222	3463	2	5	1732	1.15(0.89-1.21)	
PCB-180											
393.8025	45:15	45:14	1	0.912	33349	4838	4	10	1210		
395.7995	45:16	45:14	2	0.912	33586	5087	2	5	2544	0.99(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:15	45:14	1	0.912	33349	4838	4	10	1210		
395.7995	45:16	45:14	2	0.912	33586	5087	2	5	2544	0.99(0.89-1.21)	
PCB-191											
393.8025	45:38	45:37	1	0.920	18364	3624	4	10	906		
395.7995	45:38	45:37	1	0.920	16859	3801	2	5	1901	1.09(0.89-1.21)	
PCB-170											
393.8025	46:33	46:32	2	0.938	13192	2794	4	10	699		RQ
395.7995	46:33	46:32	2	0.938	15830	3001	2	5	1501	0.83(0.89-1.21)	
Empc Correction					12563	2660	2	5	1330		
PCB-190											
393.8025	47:03	47:02	1	0.948	19619	4177	4	10	1044		
395.7995	47:03	47:02	1	0.948	20498	4227	2	5	2114	0.96(0.89-1.21)	
PCB-189											
393.8025	49:37	49:38	-1	1.000	27187	4572	124	310	37		
395.7995	49:39	49:38	2	1.001	25907	5464	92	230	59	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:30	42:28	2	0.821	2670571	516634	59	147	8757		
441.8008	42:30	42:28	2	0.821	2951873	552631	47	117	11758	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:44	51:43	1		3781894	694777	234	585	2969		
441.8008	51:44	51:43	1		4167602	757674	228	570	3323	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:12	52:11	1	1.009	4394997	786634	234	585	3362		
441.8008	52:12	52:11	1	1.009	4864088	881228	228	570	3865	0.90(0.76-1.02)	
PCB-202											
427.7635	42:32	42:29	3	1.001	12689	2872	1	2	2872		
429.7606	42:30	42:29	0	1.000	13025	2499	18	45	139	0.97(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	0	1.022	13053	2640	1	2	2640		
429.7606	43:26	43:25	1	1.022	13011	2660	18	45	148	1.00(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.037	14203	2586	1	2	2586		
429.7606	44:05	44:05	0	1.037	15736	2883	18	45	160	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-197											RQM
427.7635	44:22	44:19	3	1.044	17650	3512	1	2	3512		M
	Empc Correction				15039	2940	1	2	2940		
429.7606	44:19	44:19	0	1.043	16898	3304	18	45	184	1.04(0.76-1.02)	
PCB-200											
427.7635	44:26	44:25	1	1.046	12112	2573	1	2	2573		
429.7606	44:26	44:25	0	1.046	13829	2614	18	45	145	0.88(0.76-1.02)	
PCB-198											
427.7635	47:14	47:12	2	1.111	21674	3445	1	2	3445		
429.7606	47:13	47:12	1	1.111	27910	3806	18	45	211	0.78(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:14	47:12	2	1.111	21674	3445	1	2	3445		
429.7606	47:13	47:12	1	1.111	27910	3806	18	45	211	0.78(0.76-1.02)	
PCB-196											M
427.7635	47:56	47:53	3	0.918	9747	1853	1	2	1853		M
429.7606	47:53	47:53	0	0.917	12025	2532	18	45	141	0.81(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	12983	3083	1	2	3083		
429.7606	48:05	48:05	0	0.921	13603	2751	18	45	153	0.95(0.76-1.02)	
PCB-195											RQM
427.7635	49:23	49:23	0	0.946	17759	3222	73	182	44		M
	Empc Correction				14702	2966	73	182	41		
429.7606	49:25	49:23	2	0.947	16520	3333	96	240	35	1.08(0.76-1.02)	
PCB-194											M
427.7635	51:47	51:44	2	0.992	20698	4082	73	182	56		M
429.7606	51:45	51:44	1	0.991	27122	5186	96	240	54	0.76(0.76-1.02)	
PCB-205											M
427.7635	52:13	52:13	0	1.000	25496	6107	73	182	84		M
429.7606	52:13	52:13	0	1.000	25067	5094	96	240	53	1.02(0.76-1.02)	
PCB-208L											
473.7648	49:09	49:09	0	0.950	3304483	605650	3787	9467	160		
475.7619	49:10	49:09	1	0.950	4196425	757108	742	1855	1020	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:57	53:57	1	1.043	2449860	441403	3787	9467	117		
475.7619	53:57	53:57	1	1.043	3049867	551350	742	1855	743	0.80(0.65-0.89)	
PCB-208											M
461.7246	49:12	49:10	2	1.001	18598	3641	191	477	19		M
463.7216	49:11	49:10	1	1.001	22997	4511	302	755	15	0.81(0.65-0.89)	M
PCB-207											M
461.7246	50:06	50:05	0	1.019	21467	4257	191	477	22		M
463.7216	50:06	50:05	0	1.019	28459	5426	302	755	18	0.75(0.65-0.89)	M
PCB-206											M
461.7246	53:59	53:58	1	1.000	17294	2978	191	477	16		M
463.7216	53:58	53:58	0	1.000	26155	5006	302	755	17	0.66(0.65-0.89)	M
PCB-209L											
507.7258	55:35	55:34	1	1.074	2215759	386177	140	350	2758		
509.7229	55:35	55:34	1	1.074	3063219	521635	68	170	7671	0.72(0.59-0.79)	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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## DCB Decachlorobiphenyl

495.6856	55:38	55:36	2	1.001	11820	2518	18	45	140		
497.6826	55:36	55:36	0	1.000	17152	2969	35	87	85	0.69(0.59-0.79)	

## QC Flag Legend

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

a - User Assigned ID

## Reagents:

61L0.51668P\_00011

Amount Added: 20.00

Units: uL

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

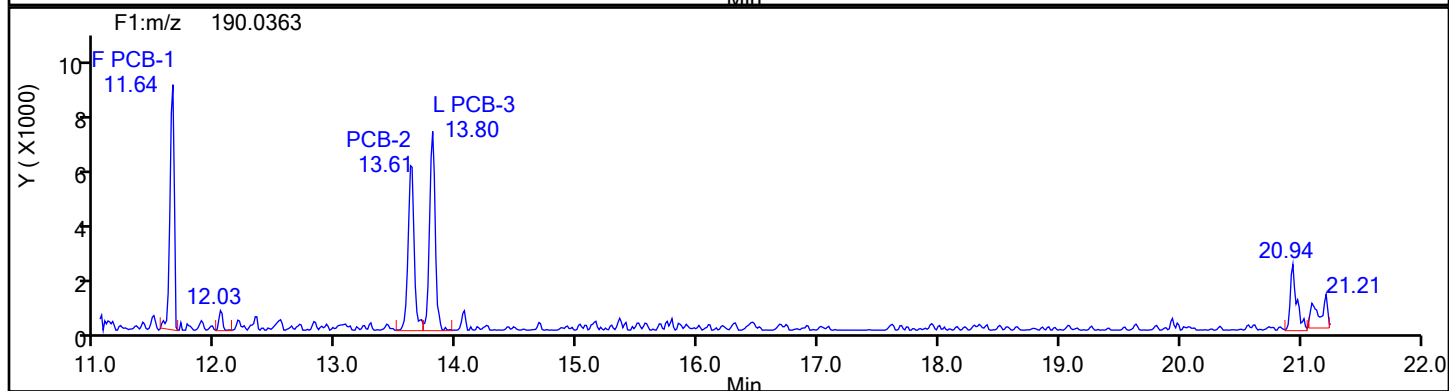
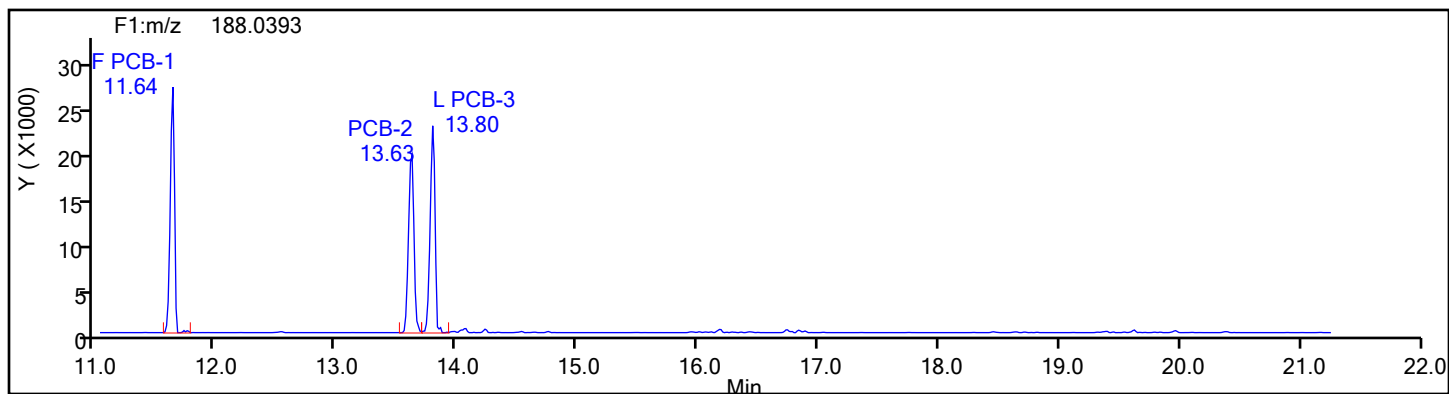
Worklist#: 87130

Sample Line#: 1

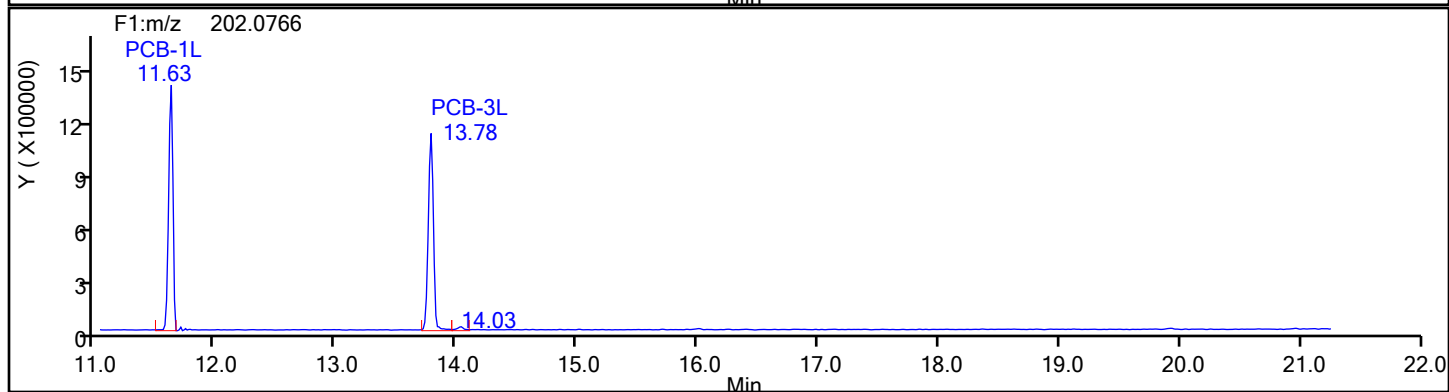
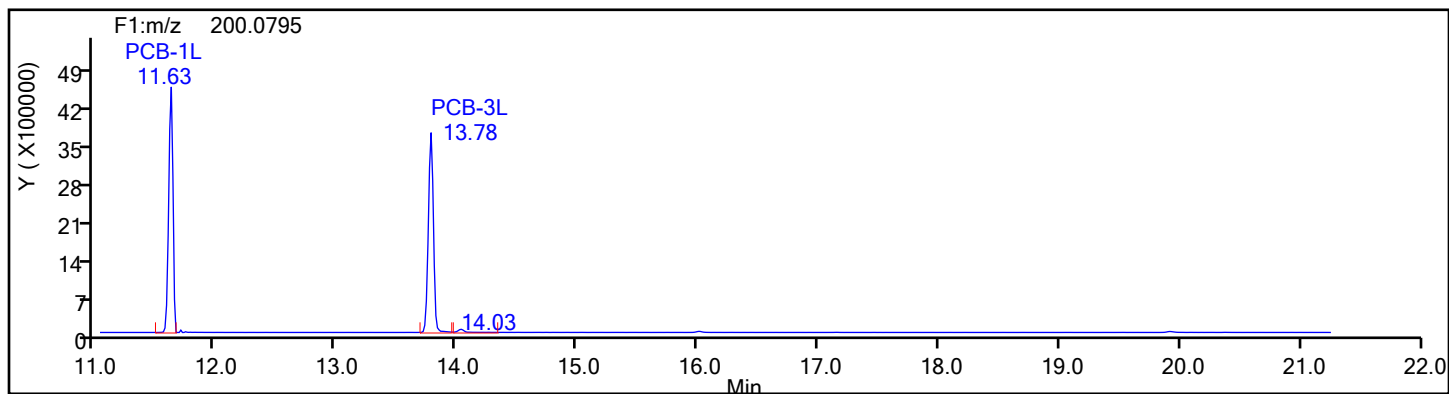
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

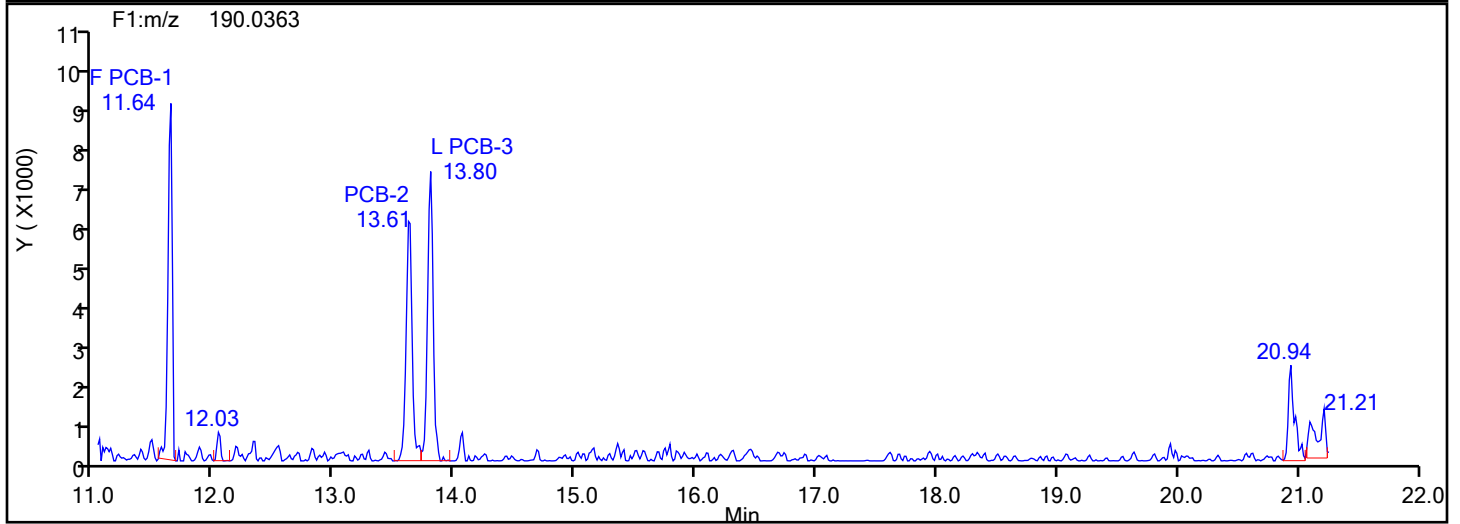
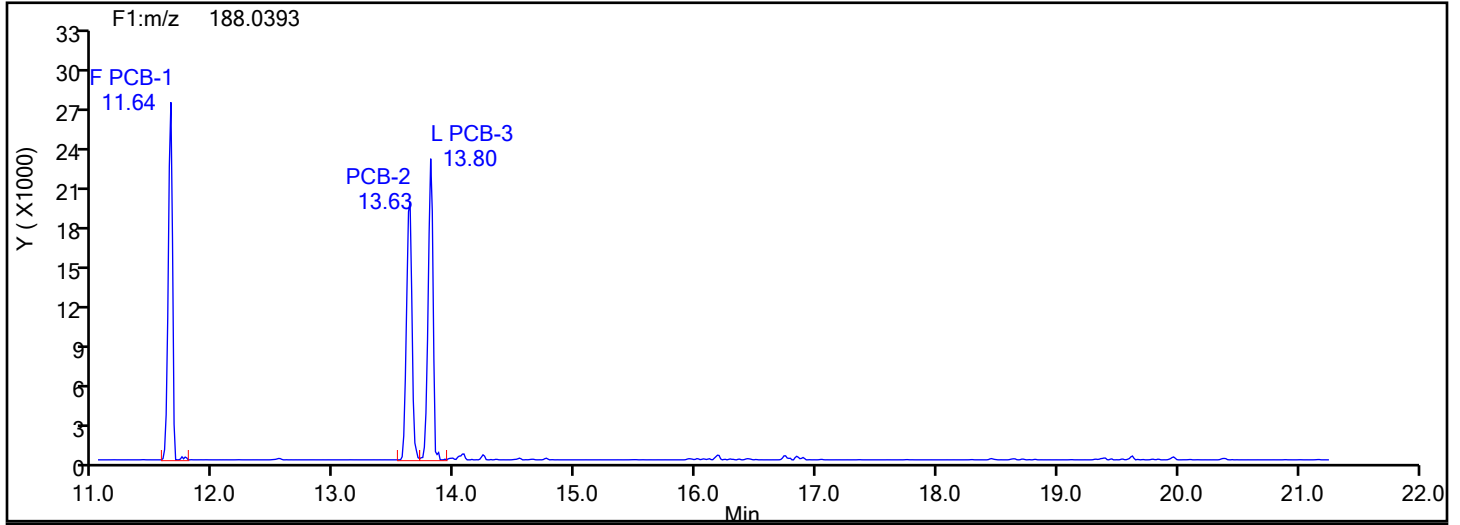
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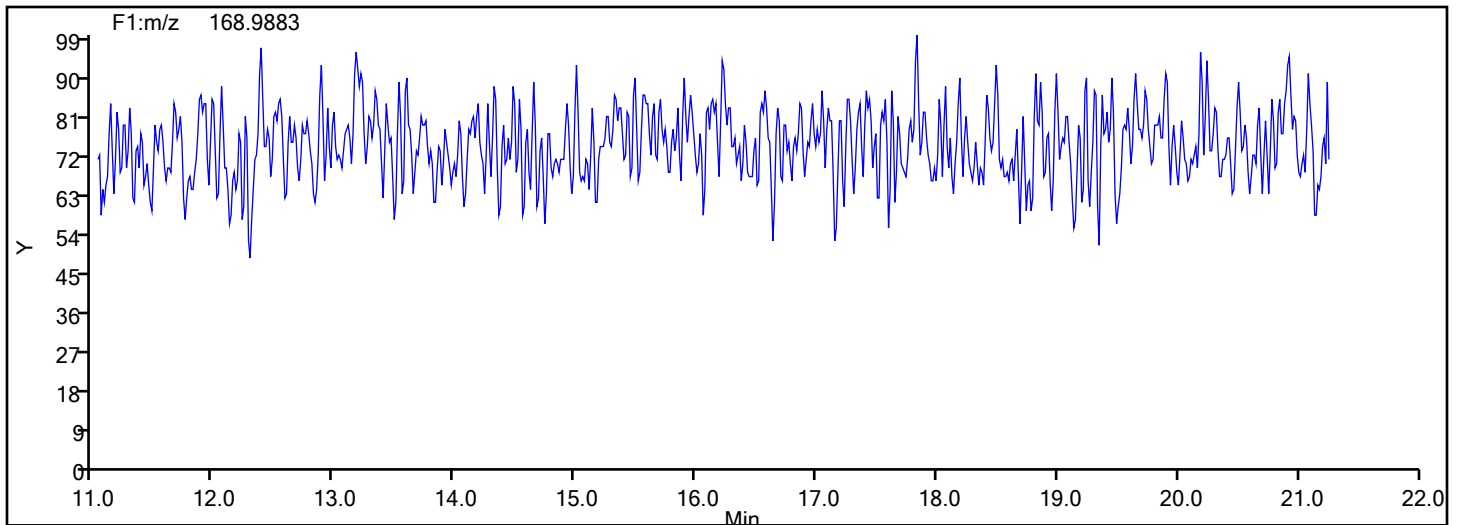
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

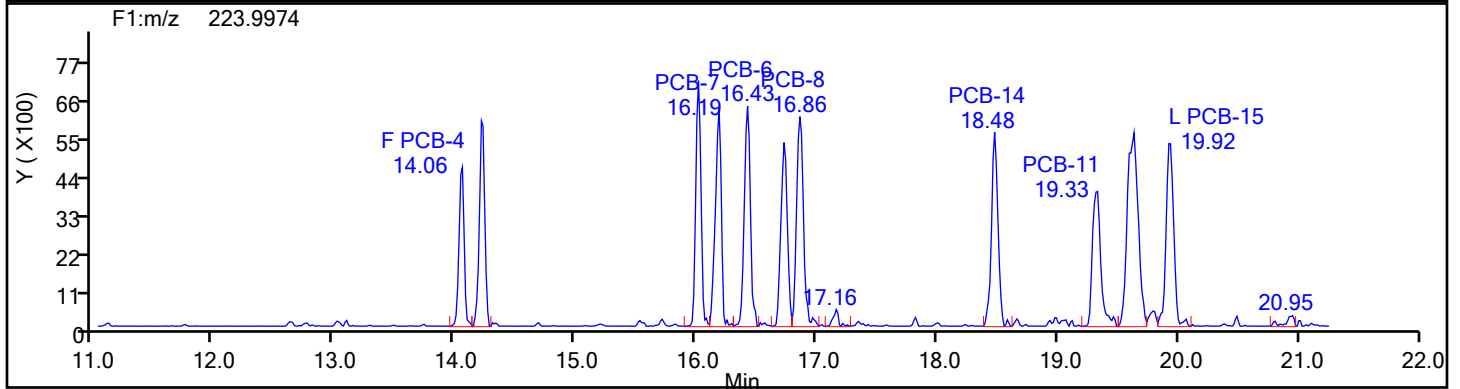
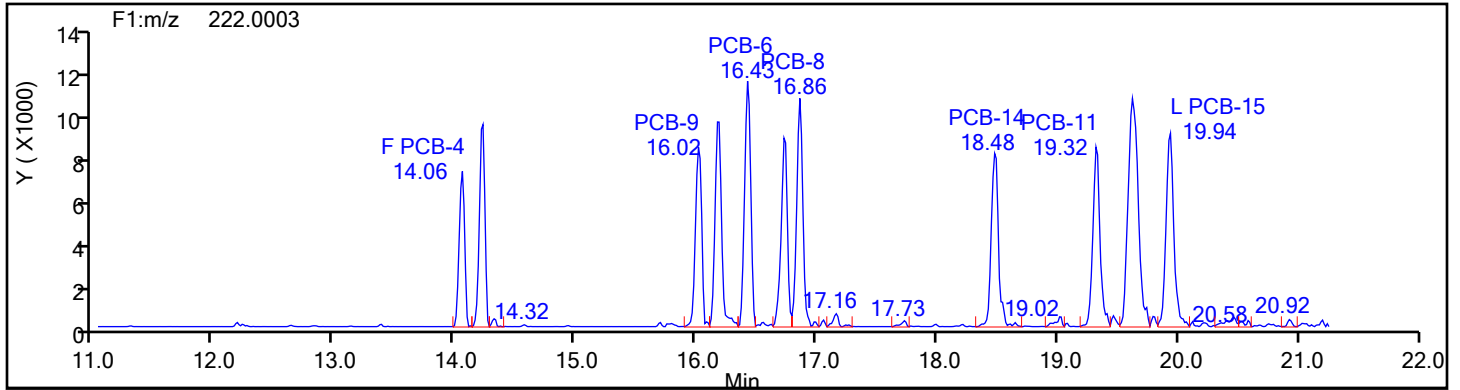
Worklist#: 87130

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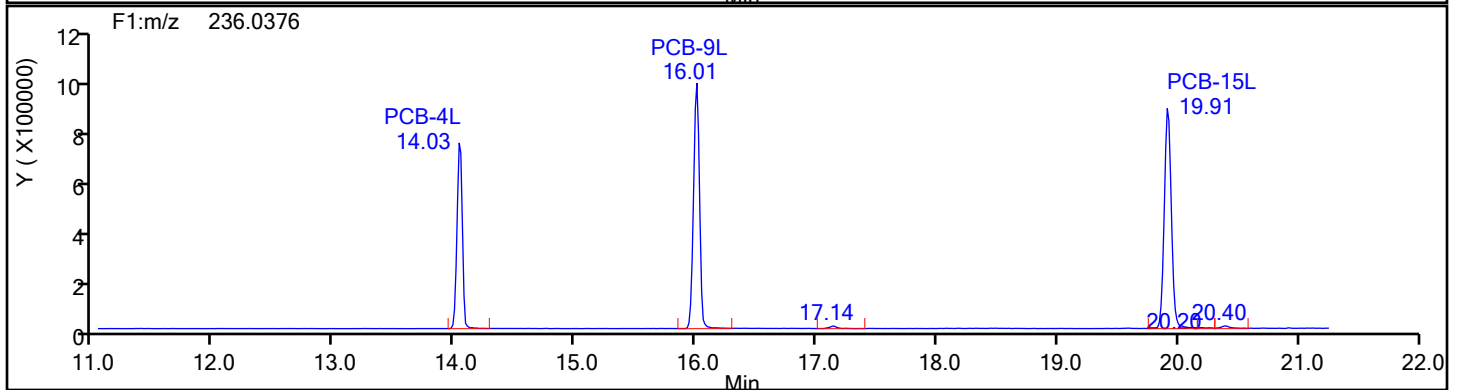
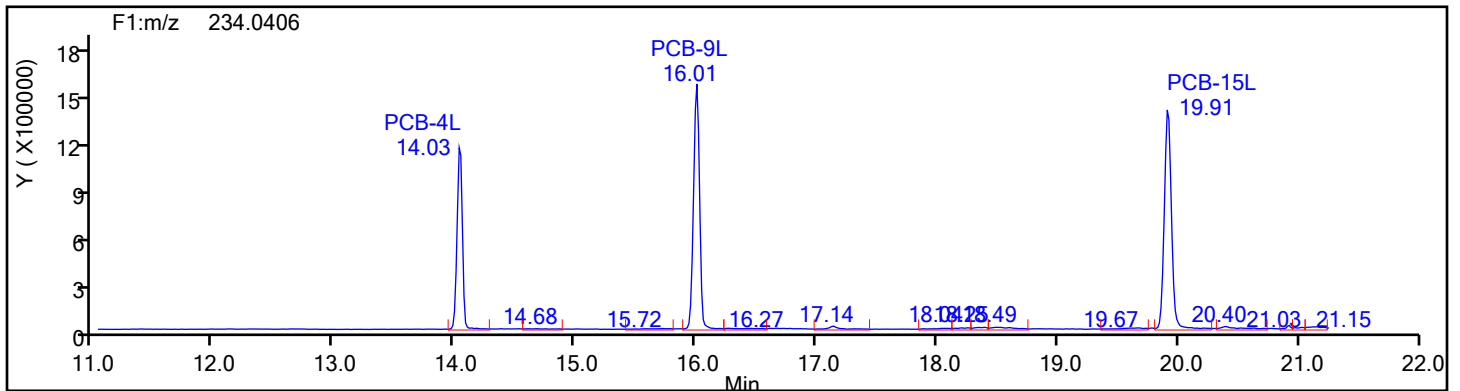
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

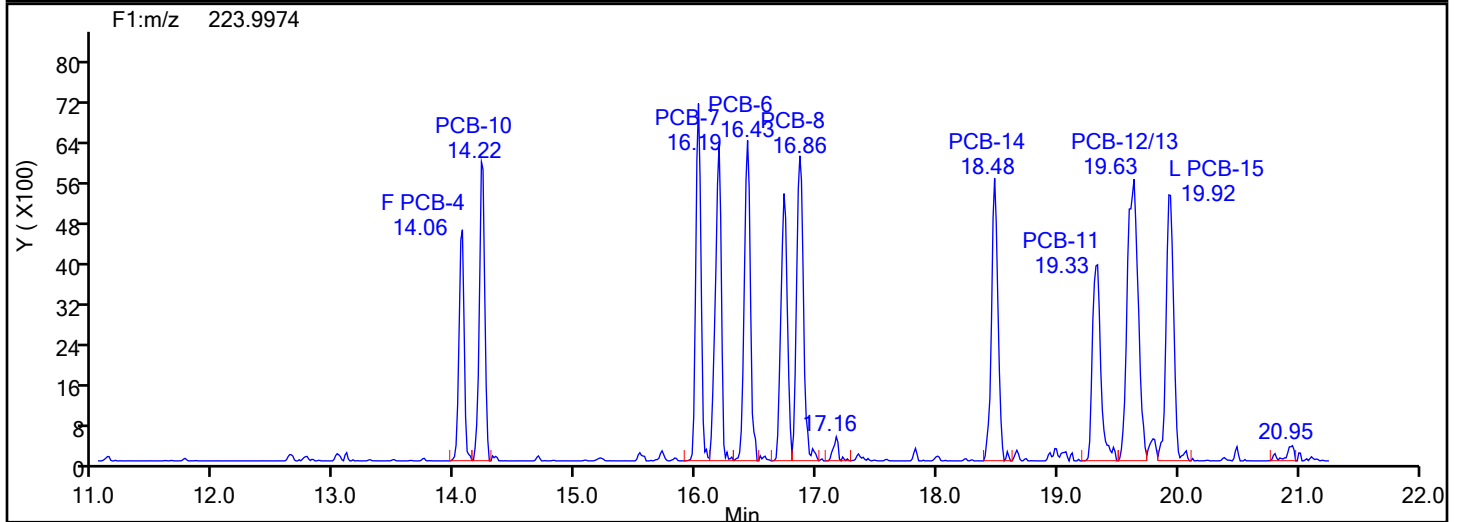
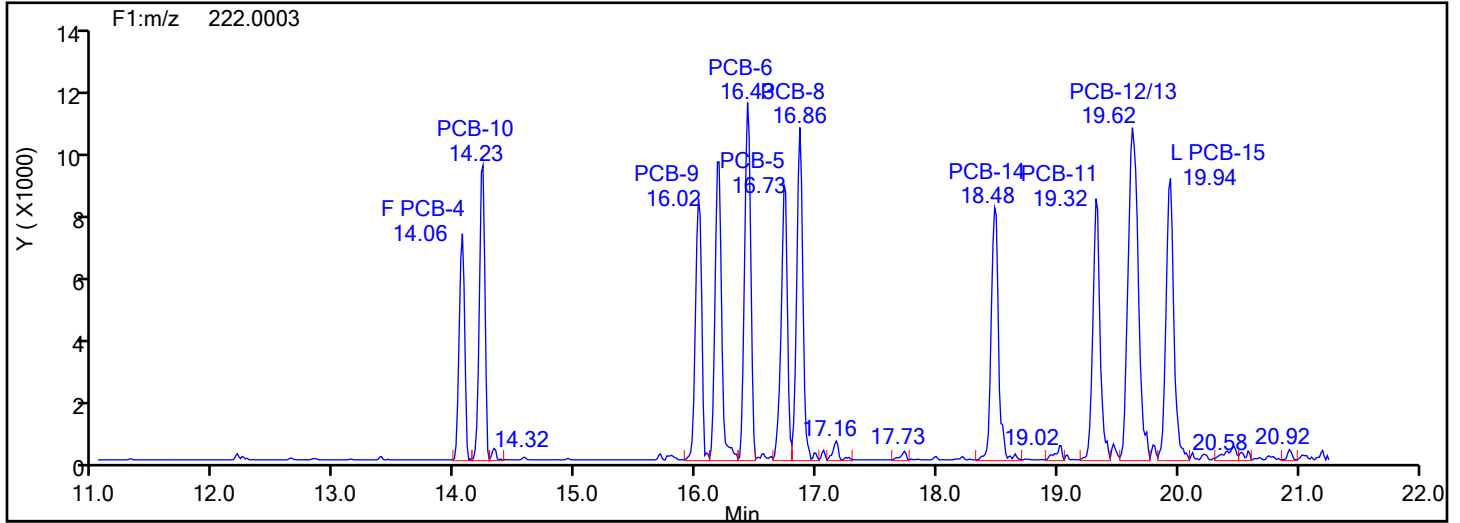
Worklist#: 87130

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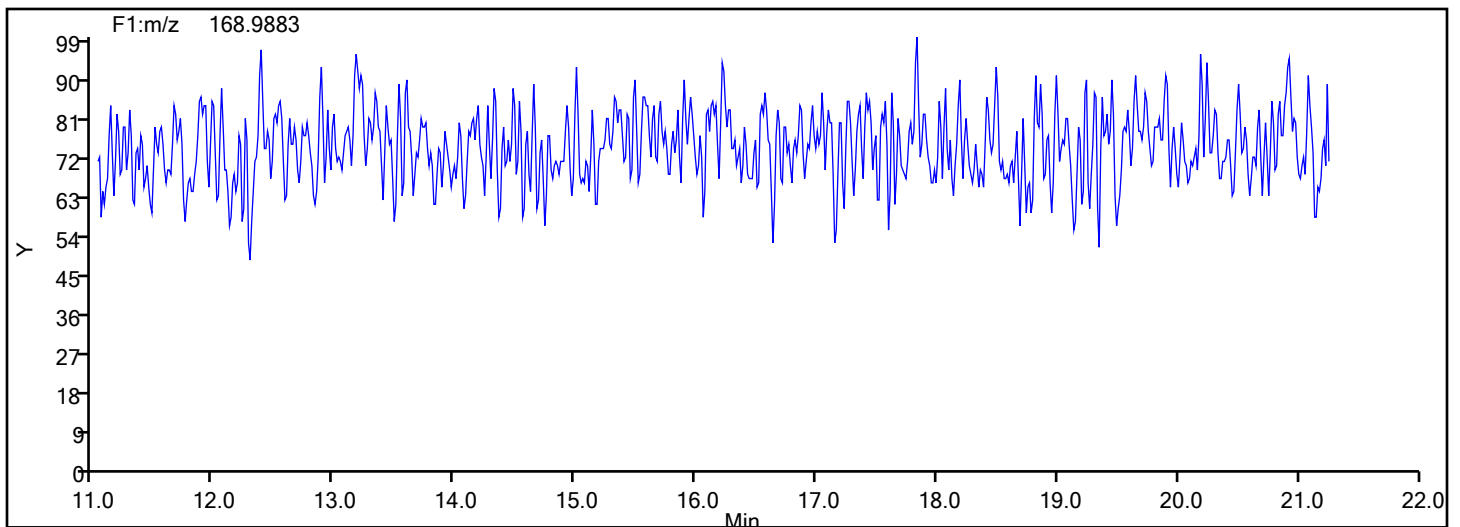
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

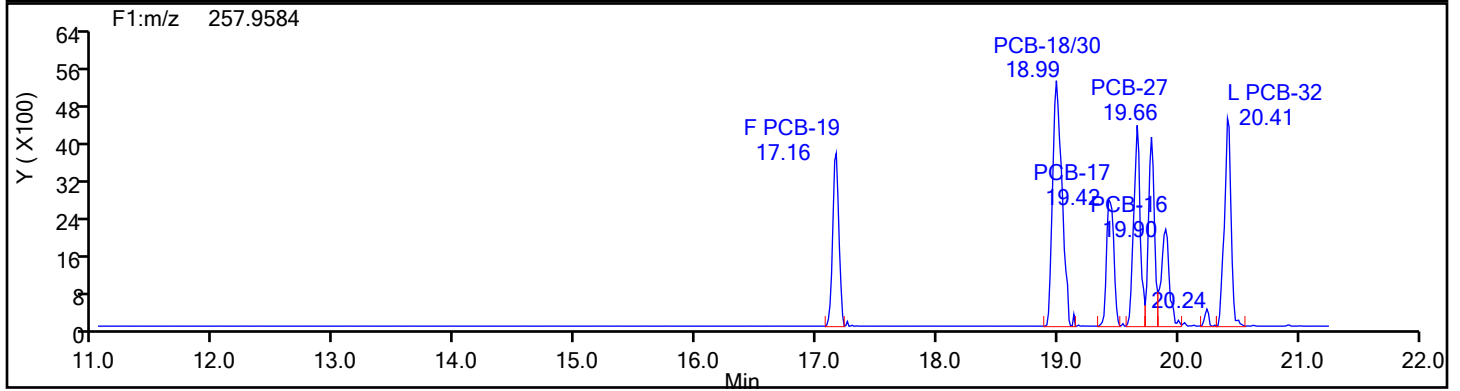
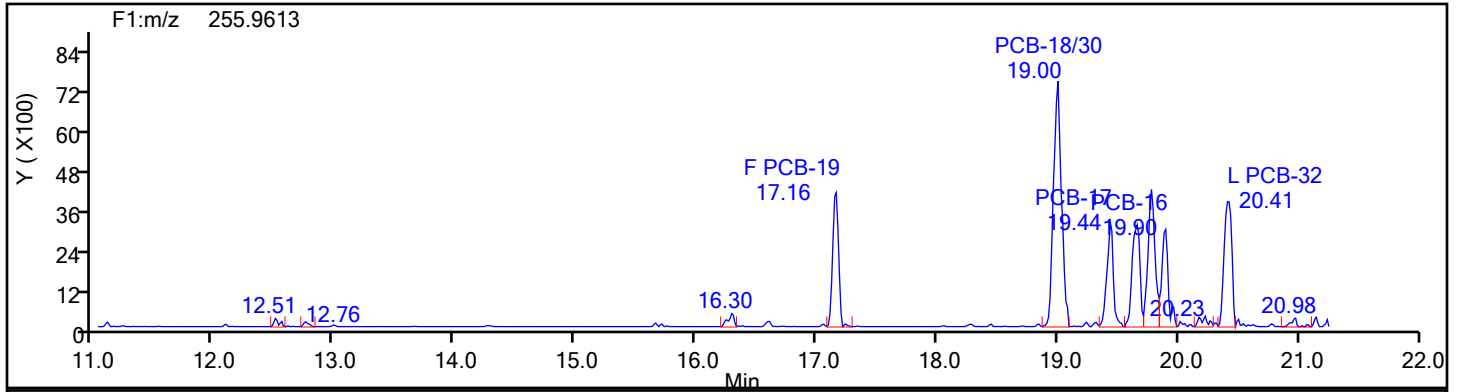
Worklist#: 87130

Sample Line#: 1

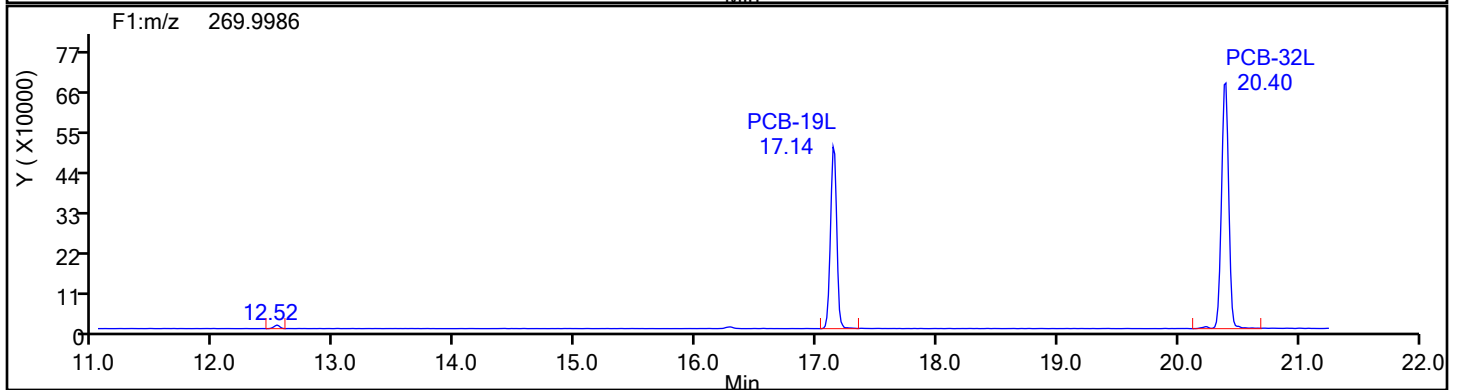
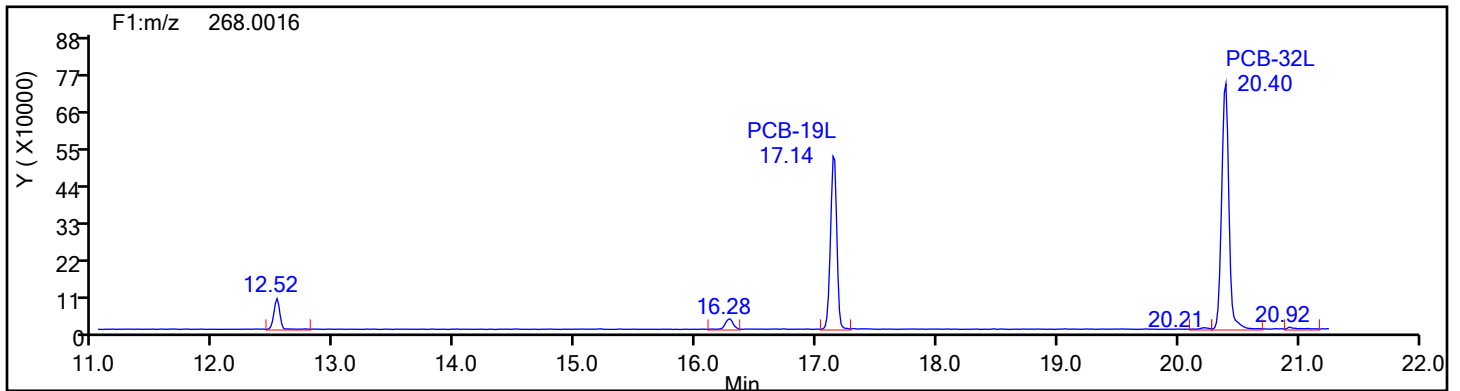
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

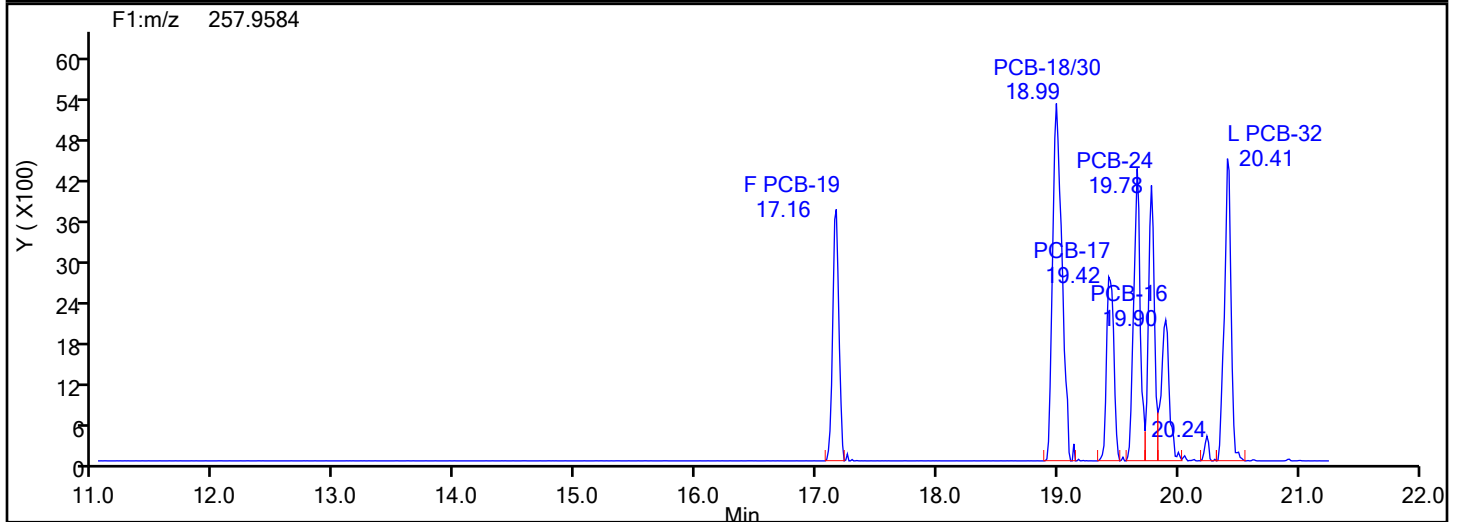
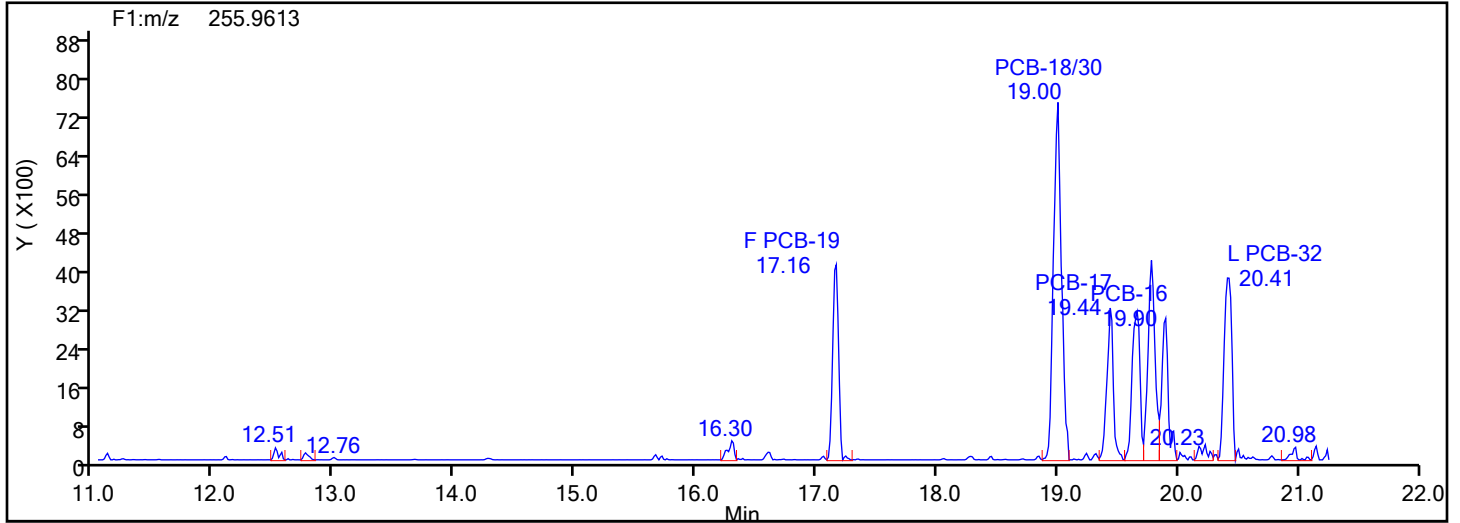
Worklist#: 87130

Sample Line#: 1

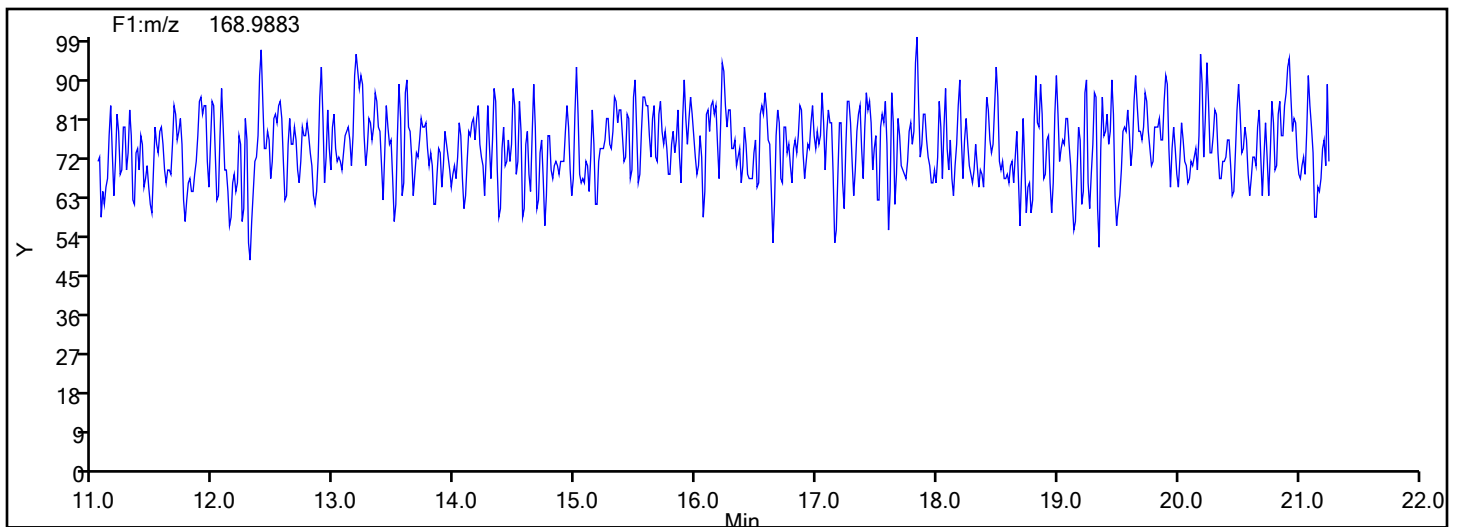
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

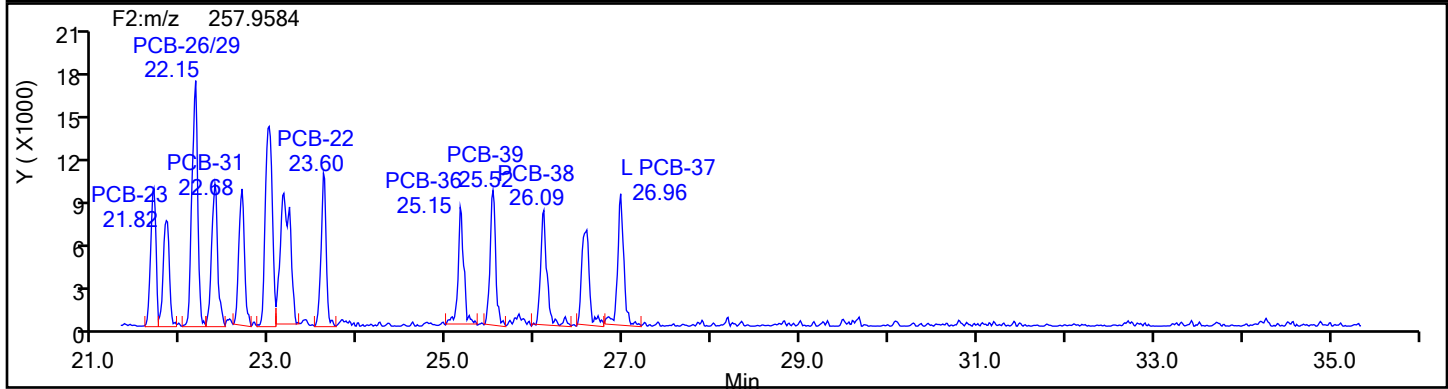
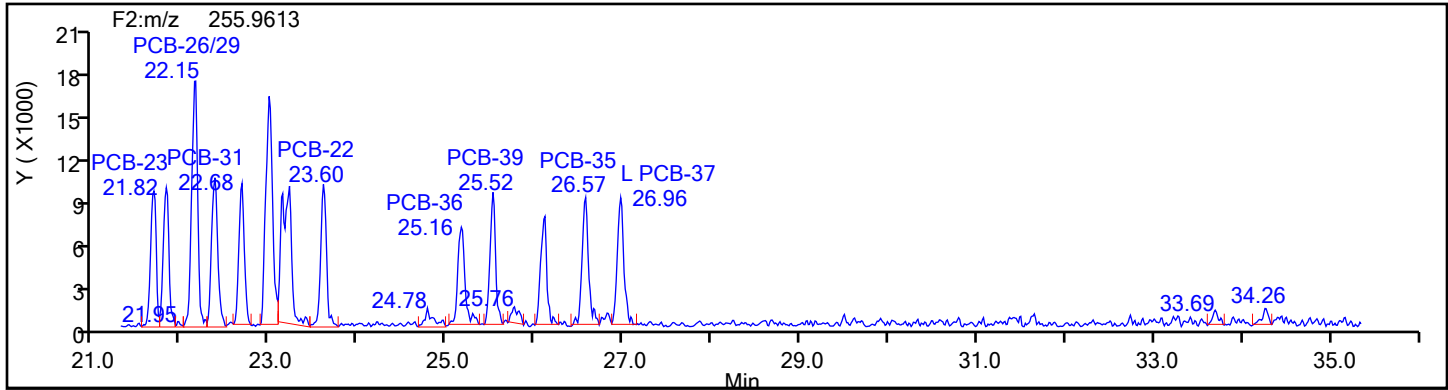
Worklist#: 87130

Sample Line#: 1

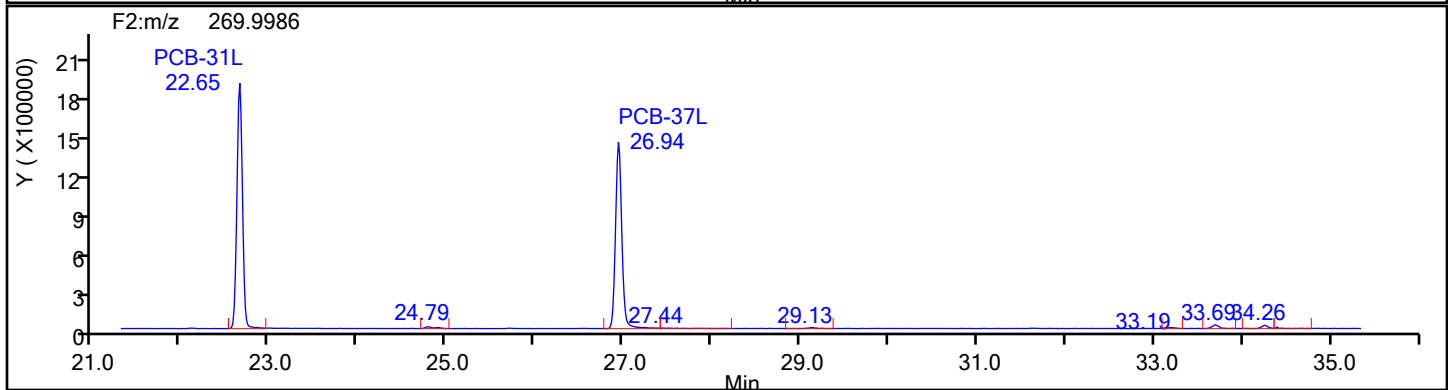
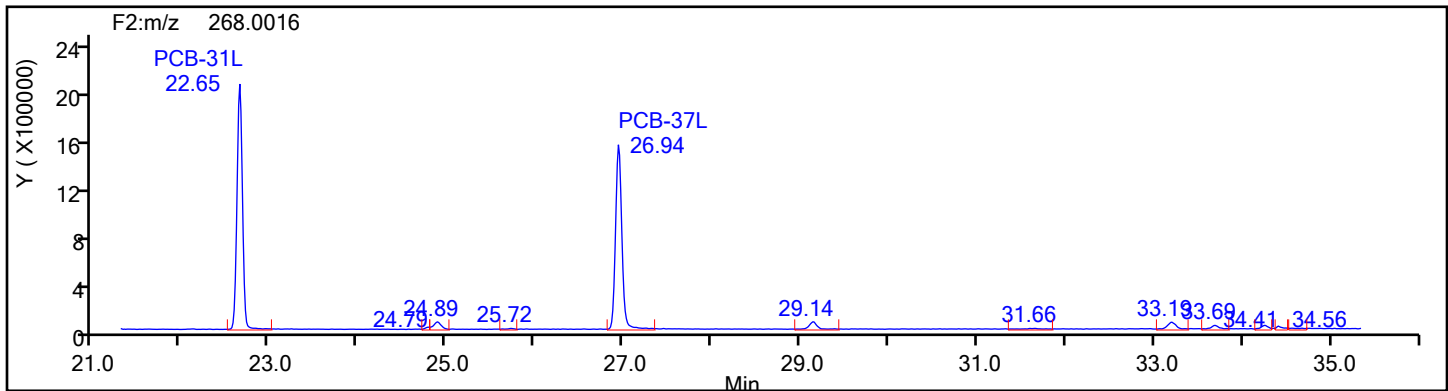
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

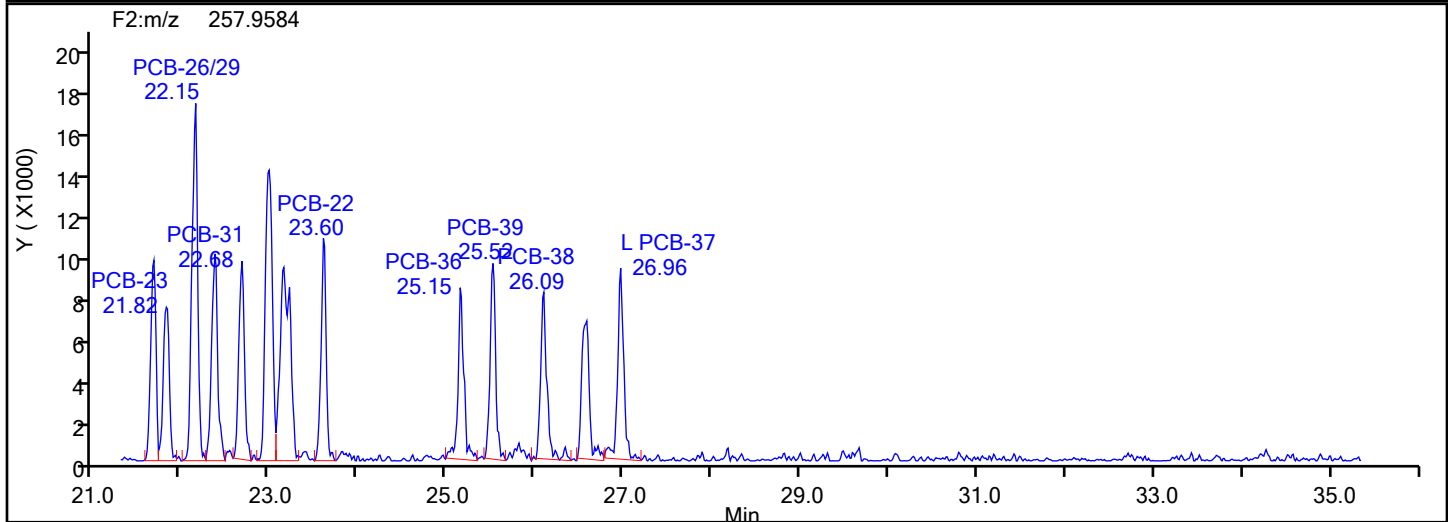
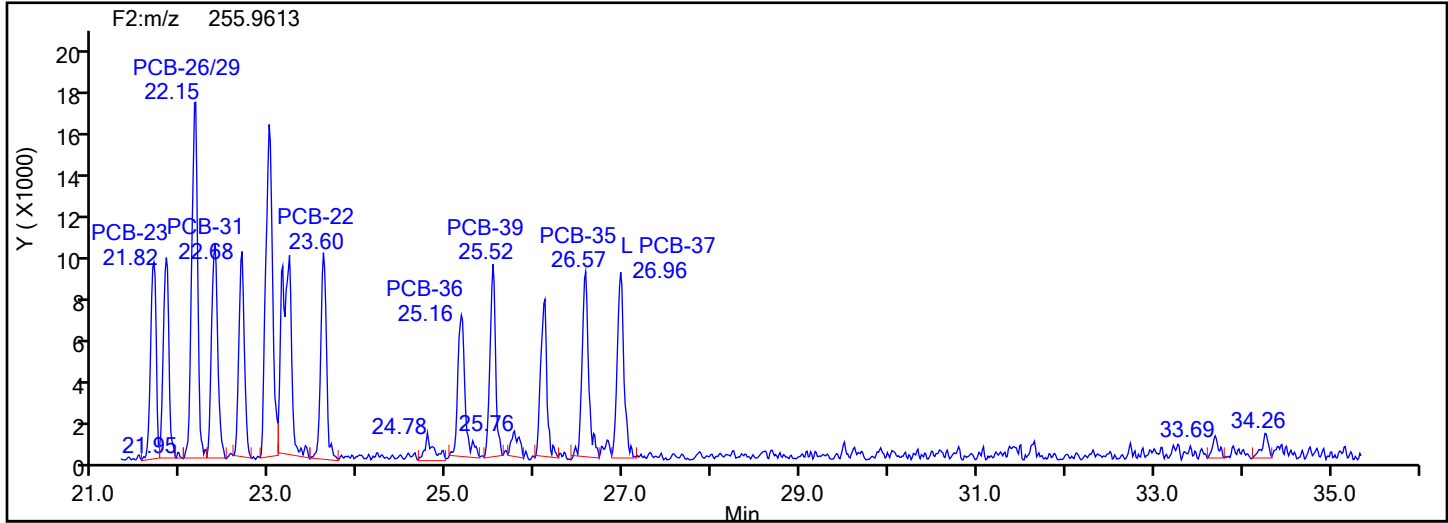
Worklist#: 87130

Sample Line#: 1

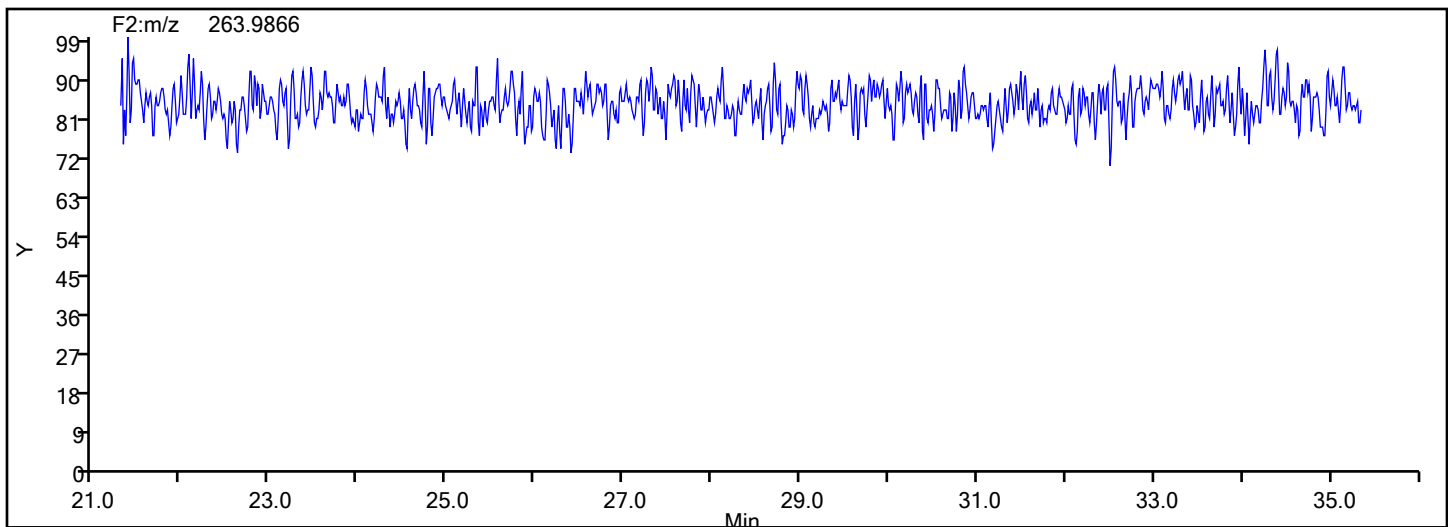
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

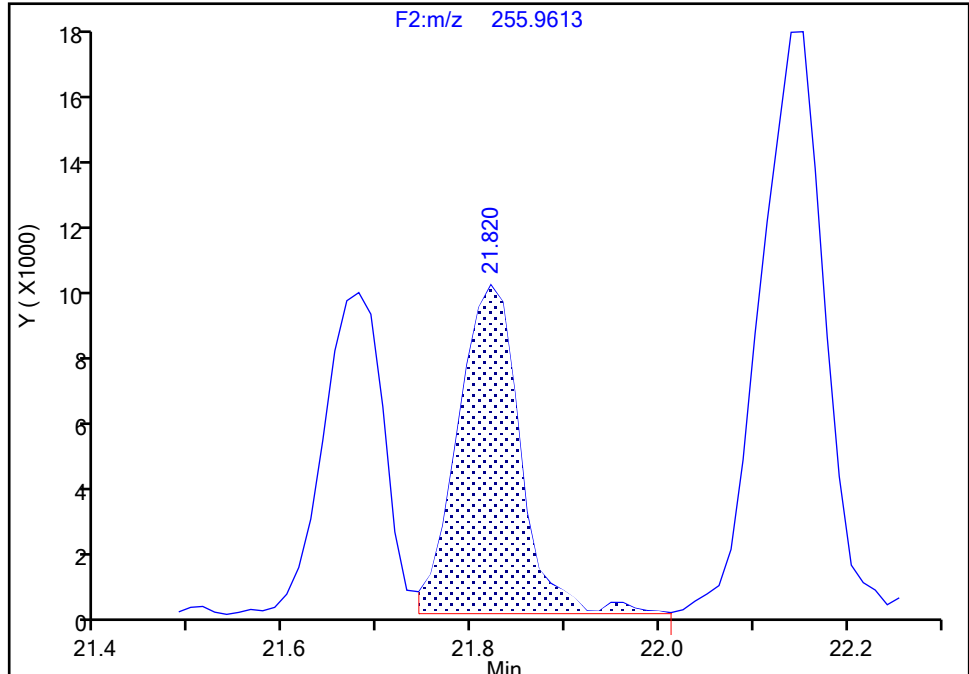
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-23, CAS: 55720-44-0**

Signal: 1

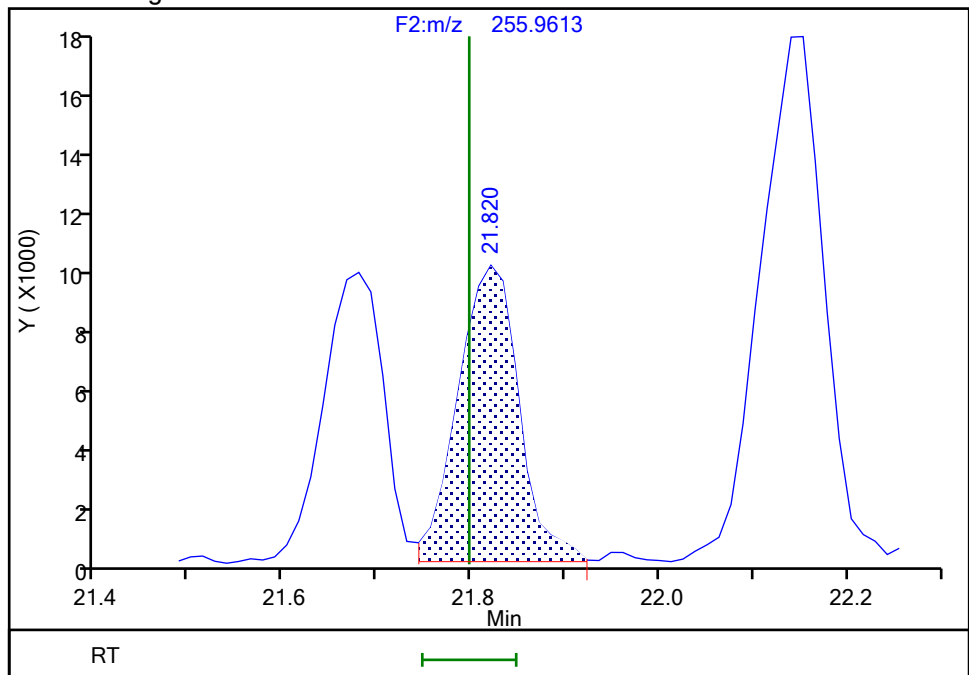
RT: 21.82  
Area: 43858  
Amount: 0.502763  
Amount Units: pg/ul

## Processing Integration Results



RT: 21.82  
Area: 43162  
Amount: 0.501518  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:26:53 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

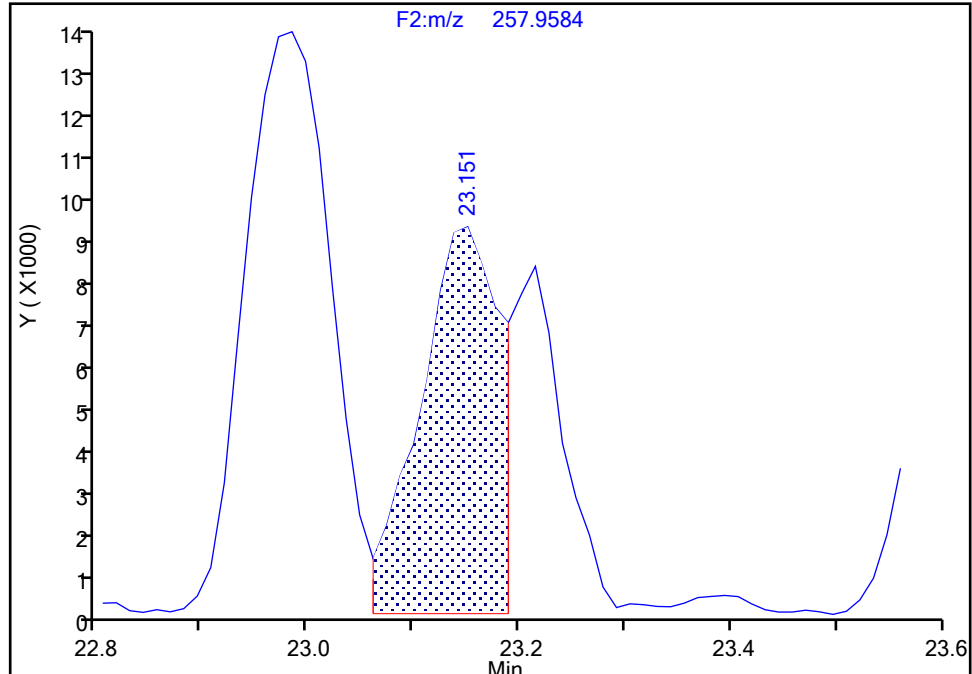
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

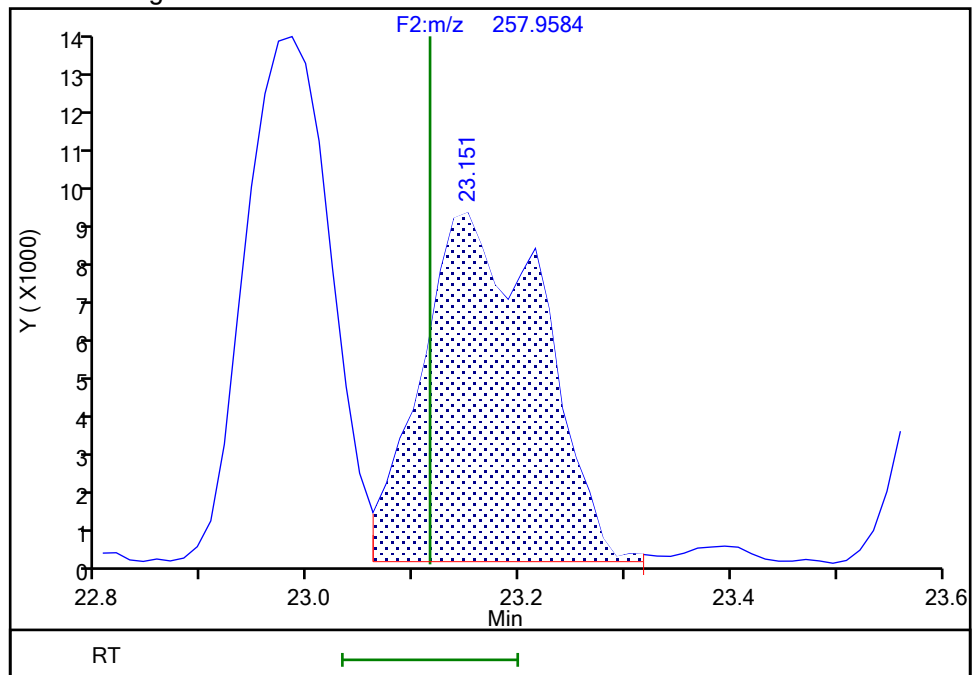
RT: 23.15  
Area: 46648  
Amount: 0.505312  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.15  
Area: 73943  
Amount: 0.947469  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:28:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

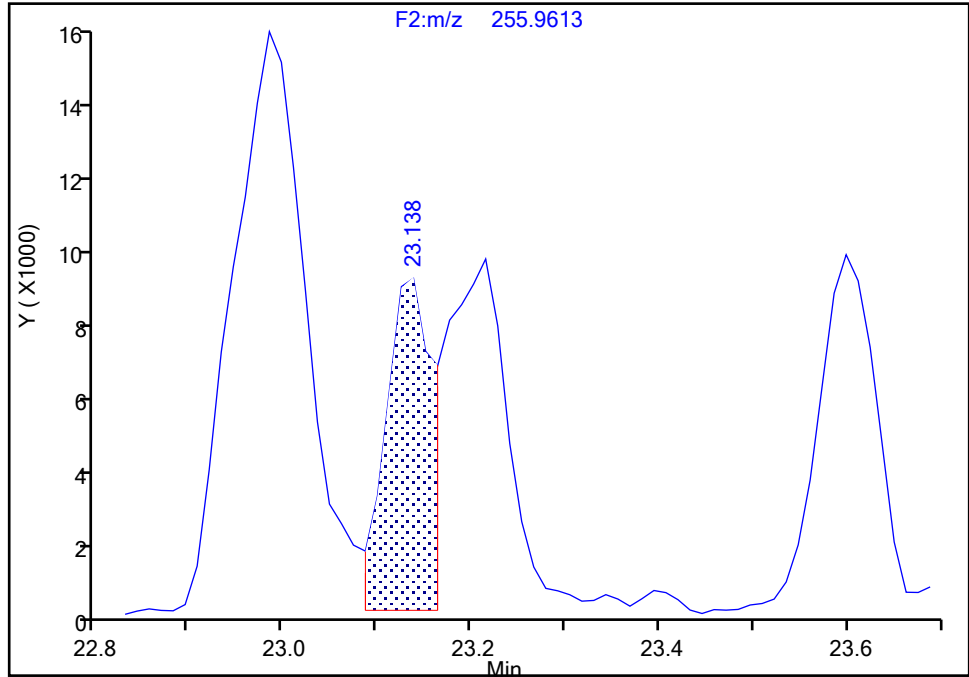
F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

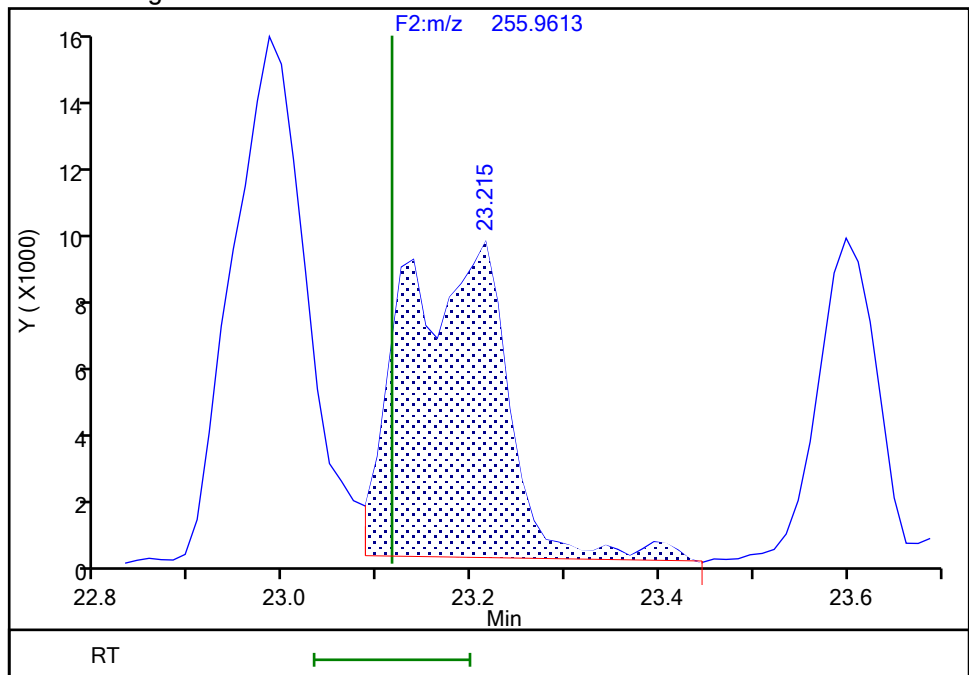
RT: 23.14  
Area: 29388  
Amount: 0.505312  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.21  
Area: 73767  
Amount: 0.947469  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:29:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-03950

9/6/2024  
3:53:39 PM



## Eurofins Knoxville

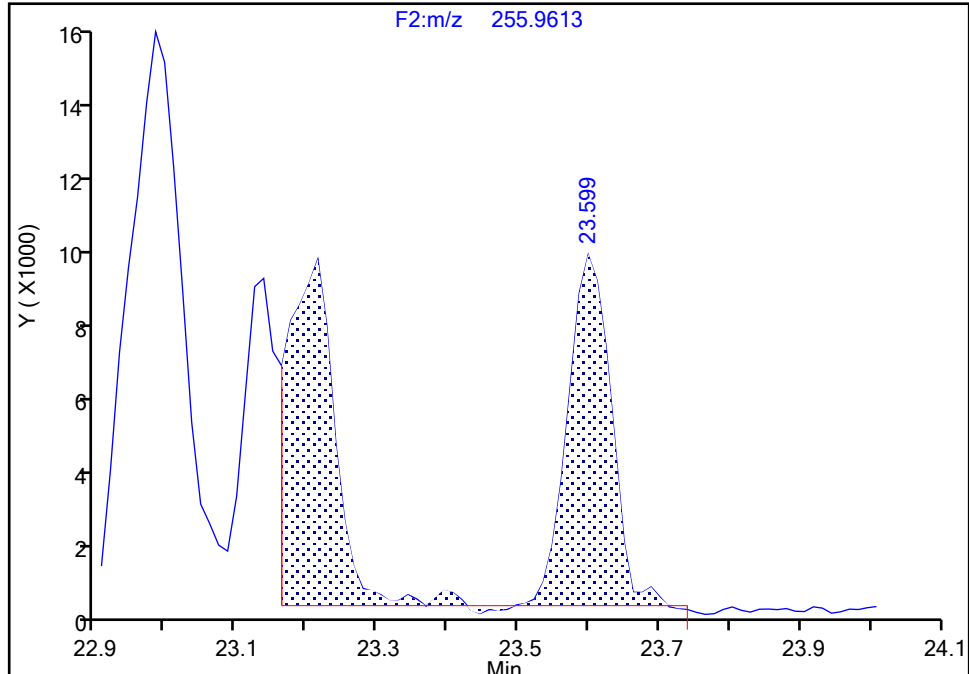
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-22, CAS: 38444-85-8**

Signal: 1

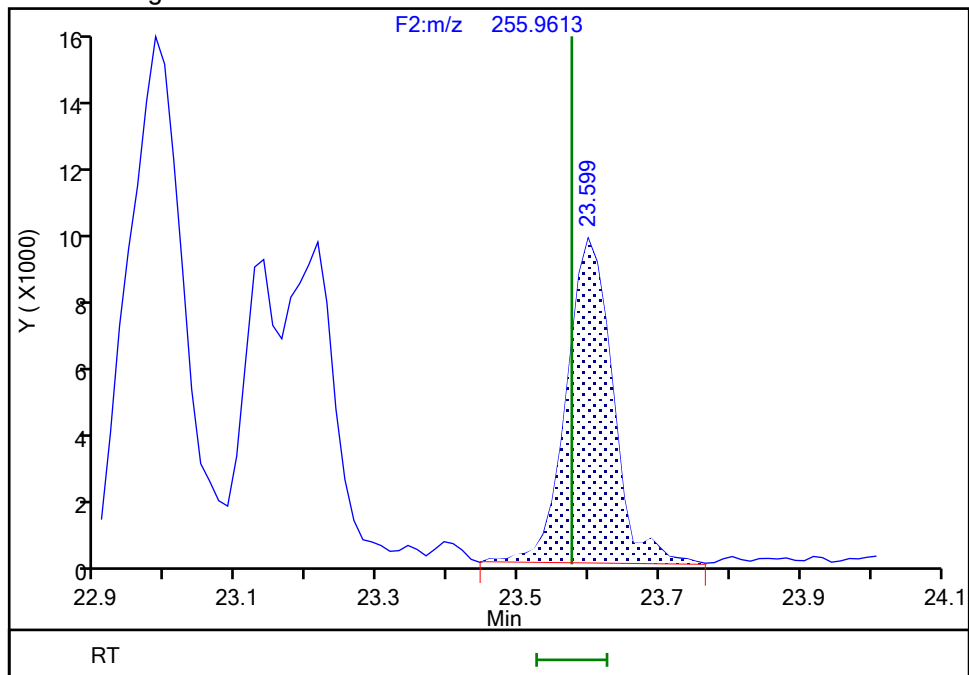
RT: 23.60  
Area: 84286  
Amount: 0.670944  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.60  
Area: 44761  
Amount: 0.505110  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:29:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

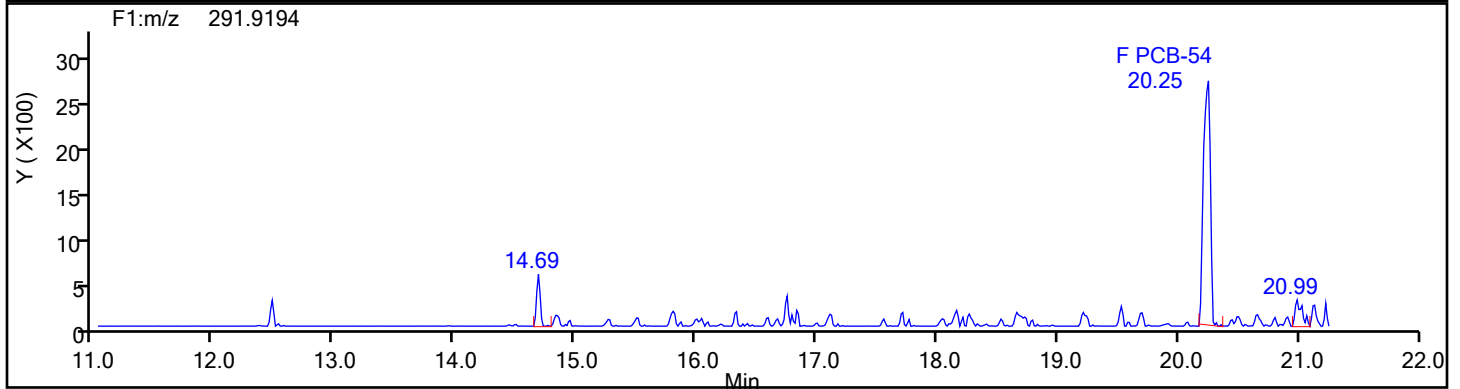
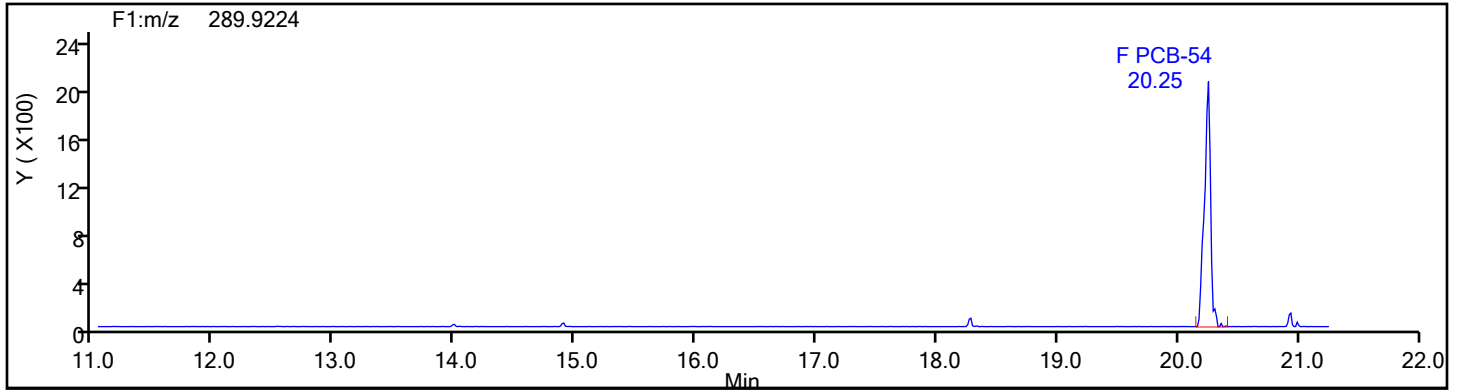
Worklist#: 87130

Sample Line#: 1

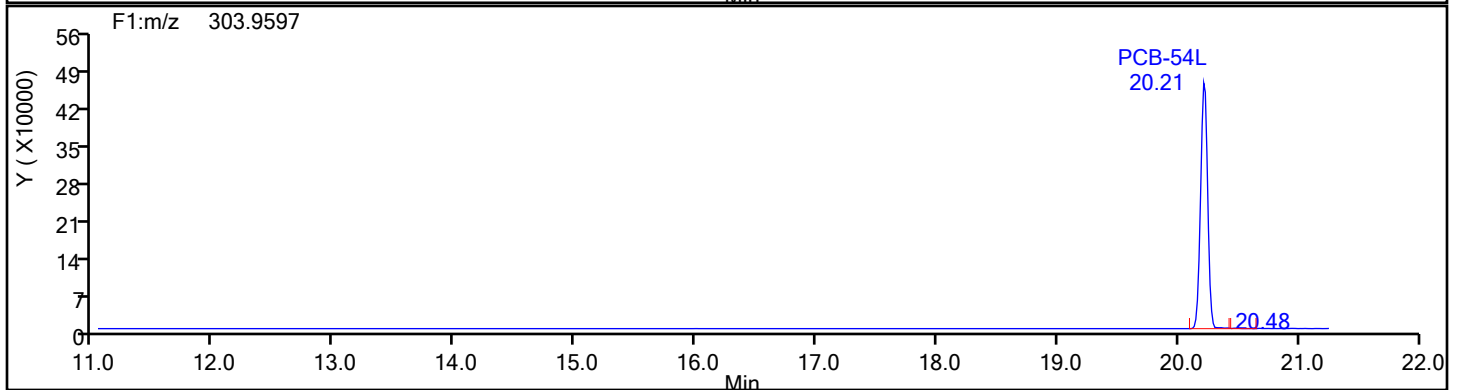
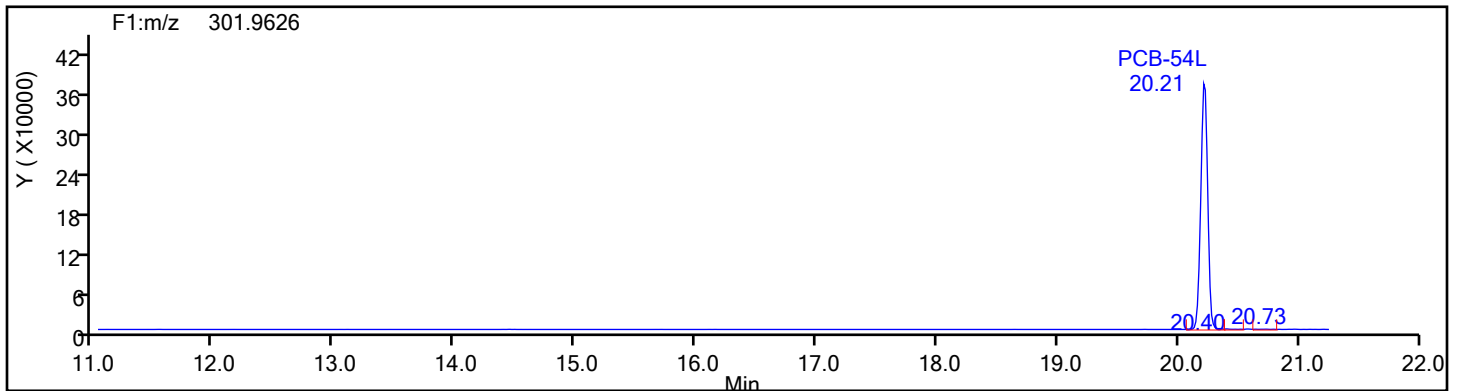
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

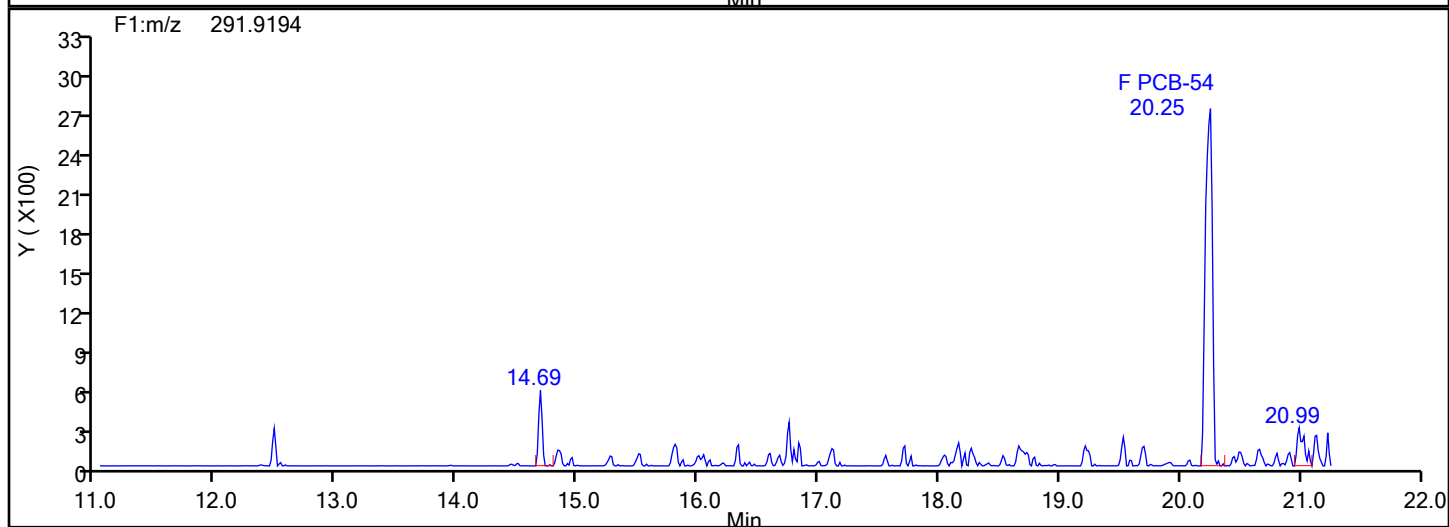
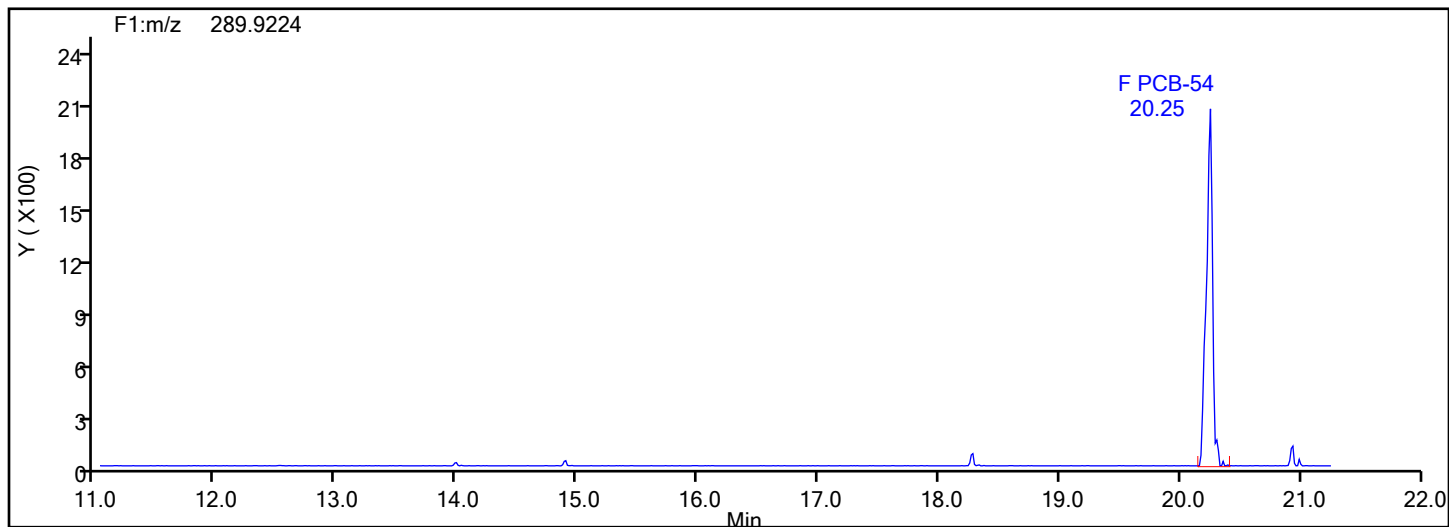
Worklist#: 87130

Sample Line#: 1

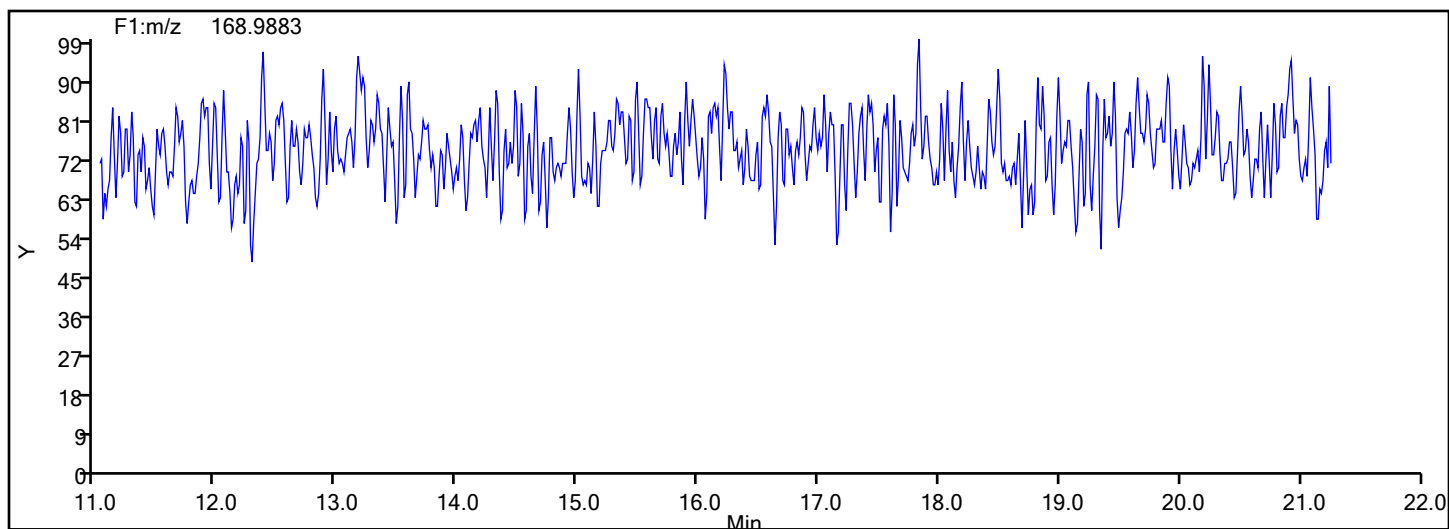
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



## TePCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

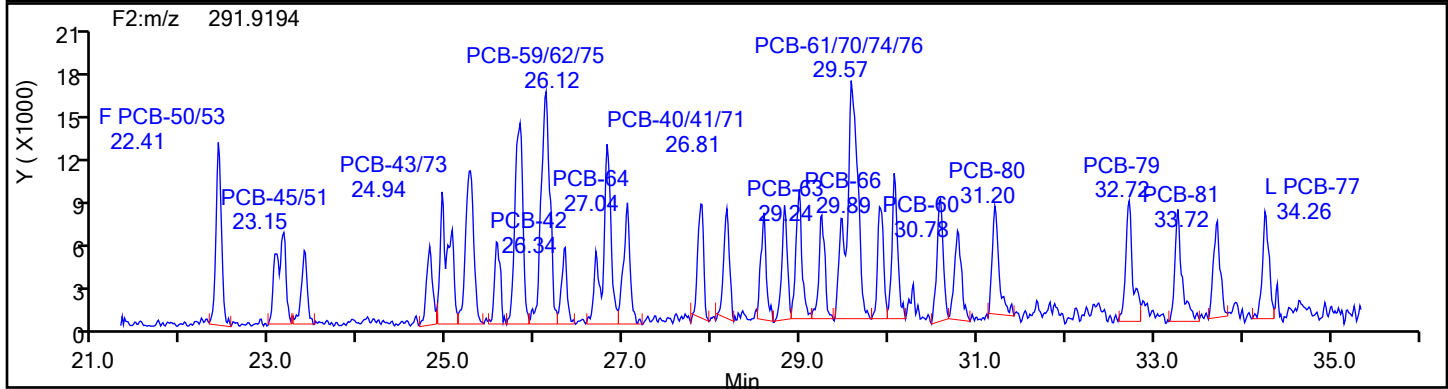
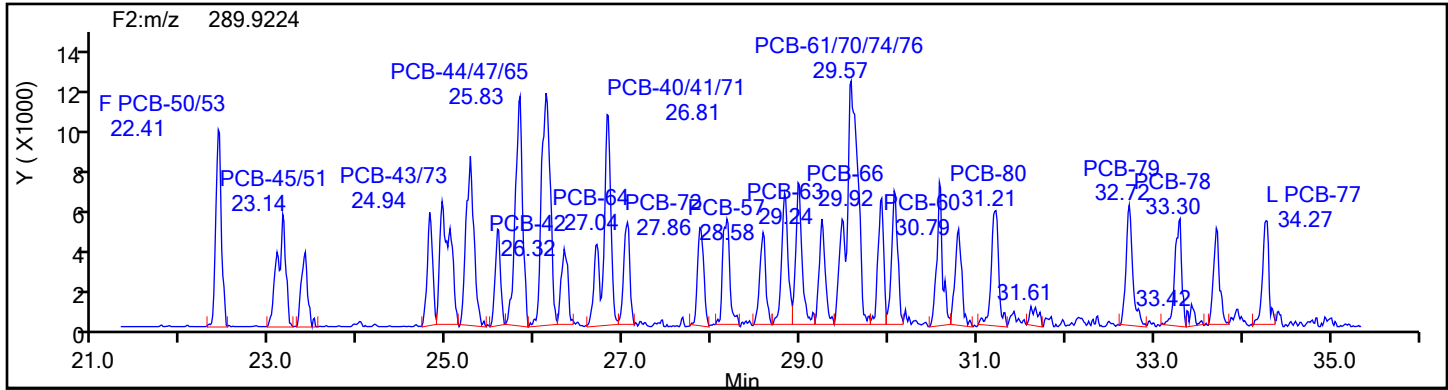
Worklist#: 87130

Sample Line#: 1

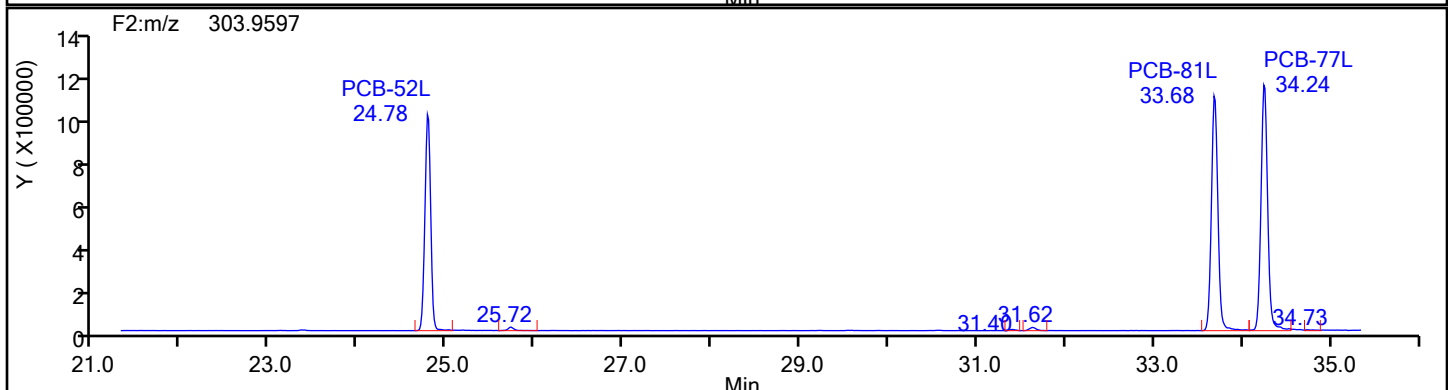
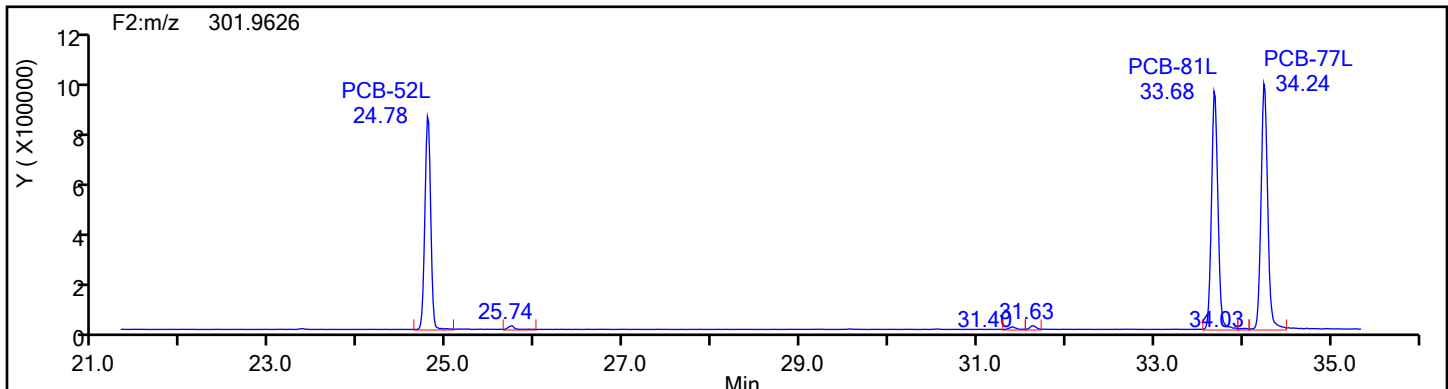
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

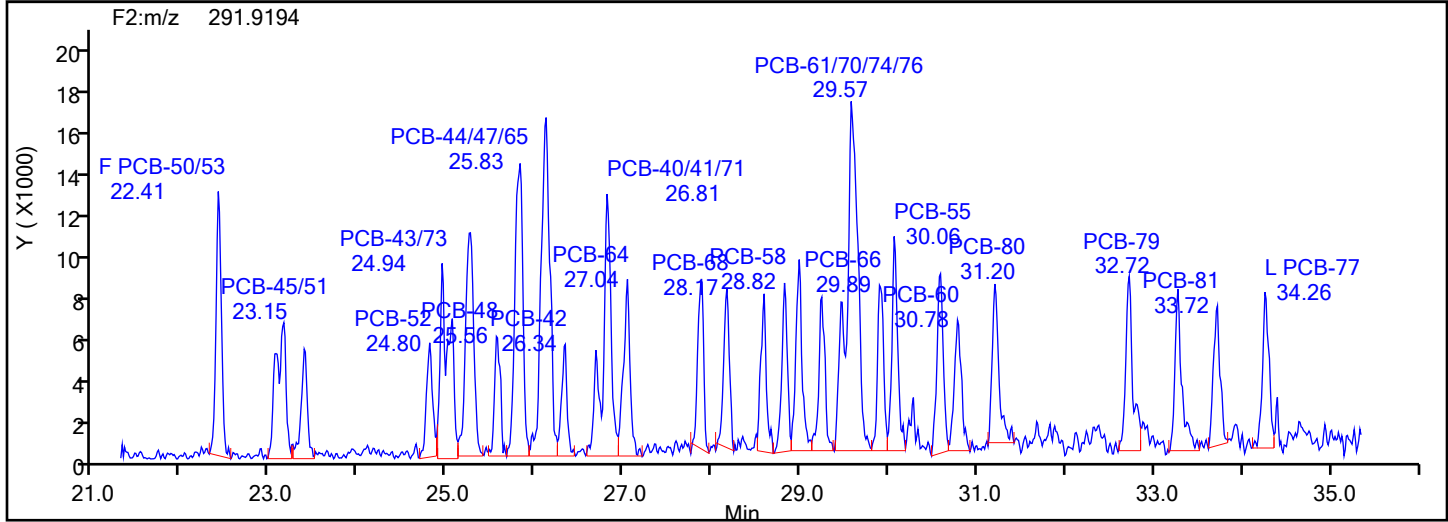
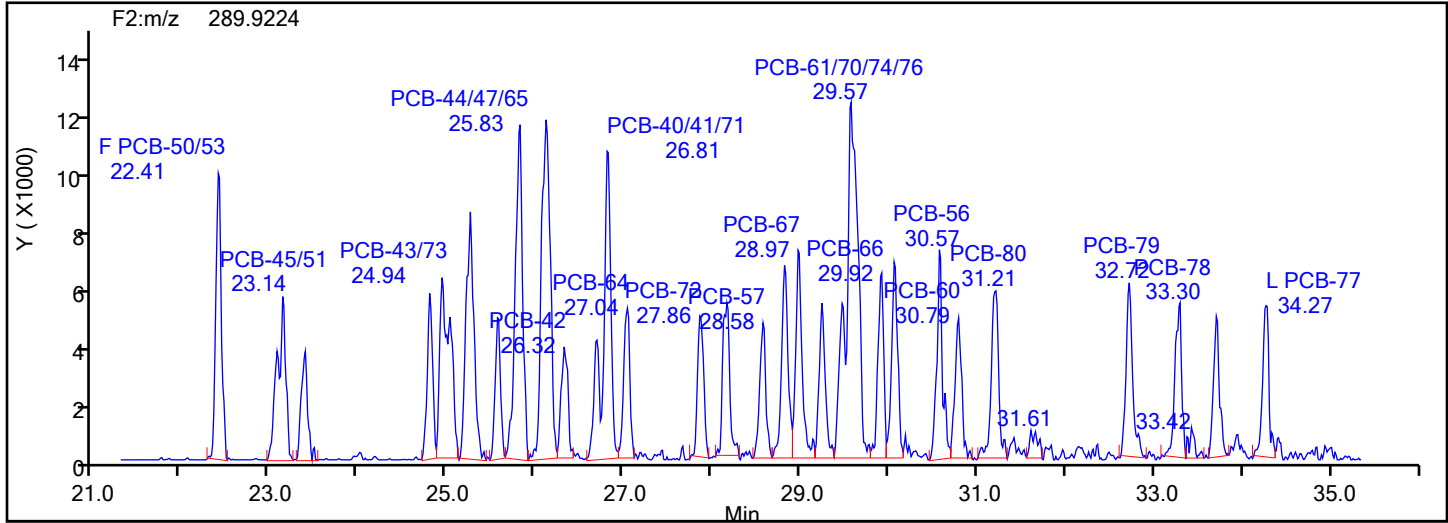
Worklist#: 87130

Sample Line#: 1

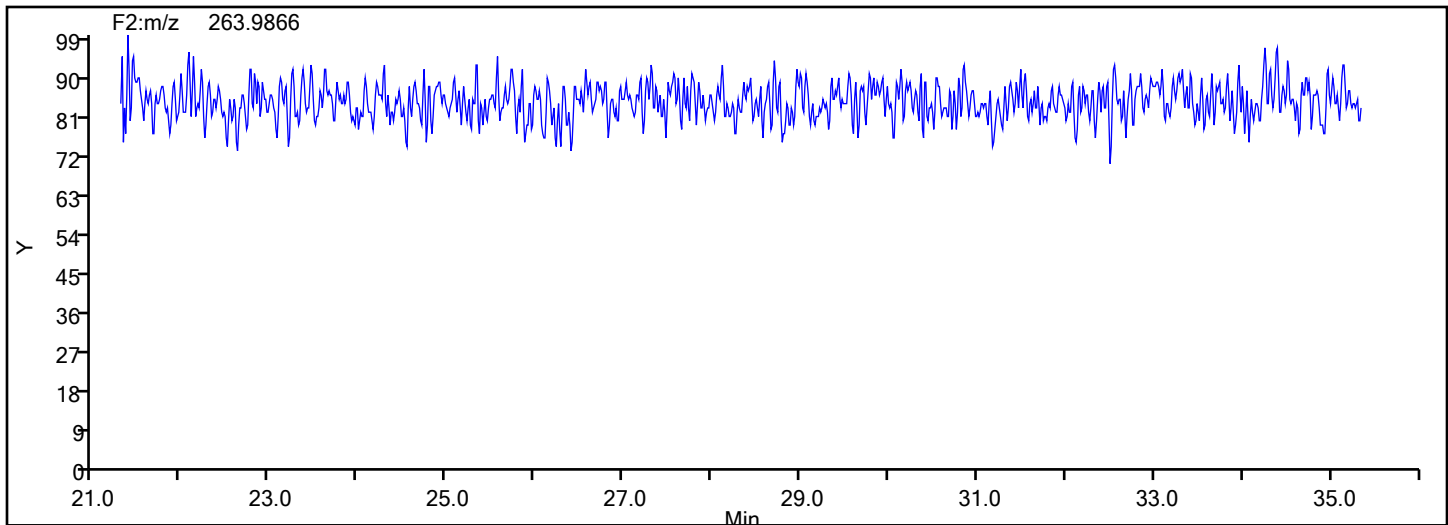
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass

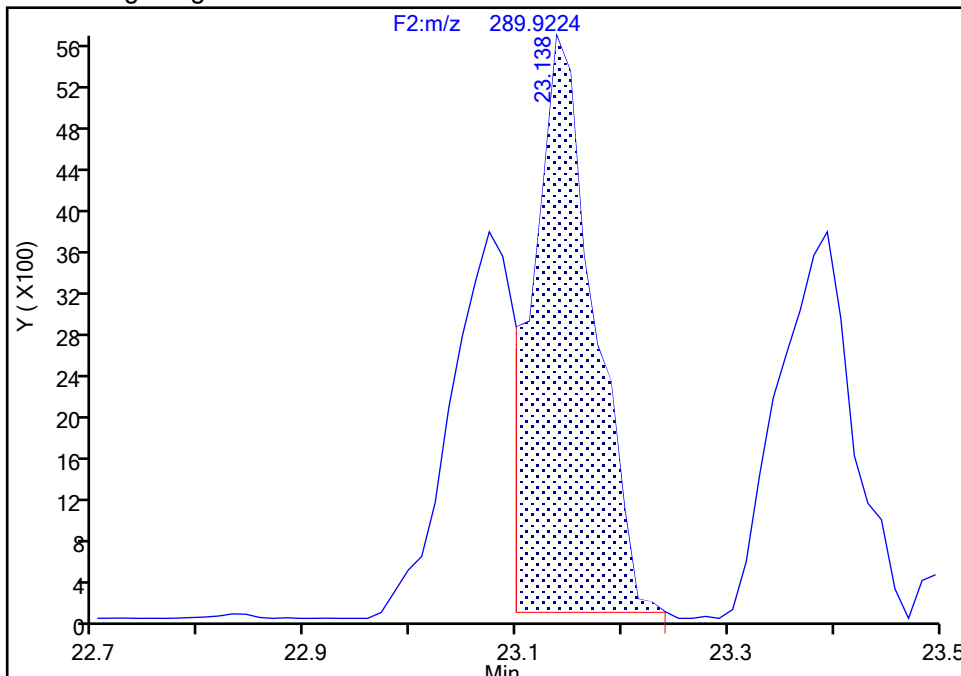


Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d		
Injection Date:	31-May-2024 14:36:00	Instrument ID:	D2D
Lims ID:	IC L1		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F2(21.81 :35.54

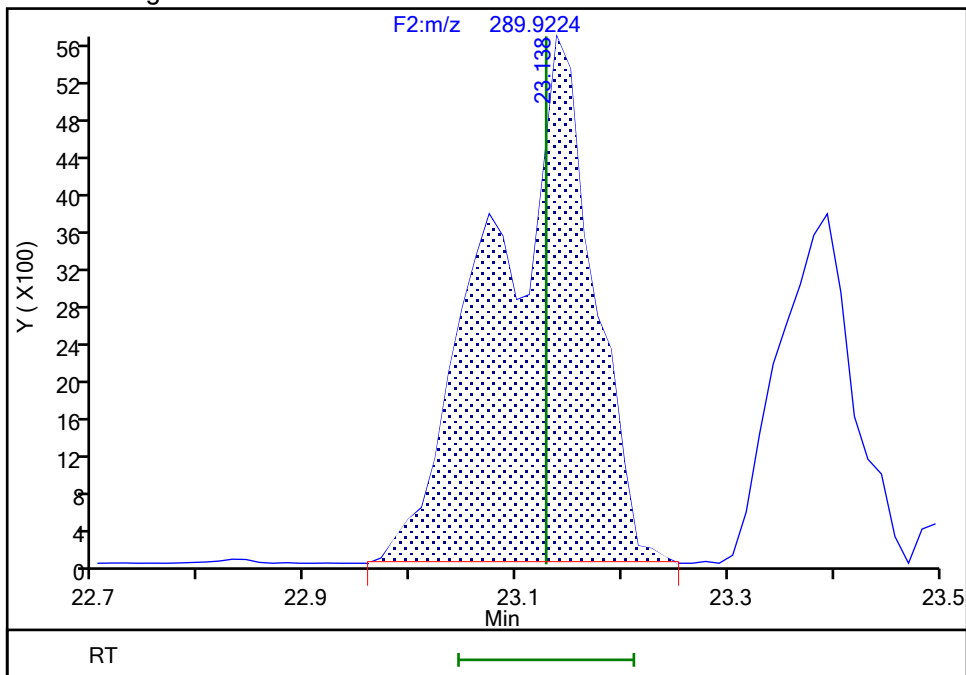
ALS Bottle#: 0 Worklist Smp#: 1  
Dil. Factor: 1.0000  
Limit Group: HR - EPA\_23 PCB ICAL  
Detector F2(21.81 :35.54 )

Signal: 1

RT: 23.14  
Area: 21852  
Amount: 0.692797  
Amount Units: pg/ul



RT: 23.14  
Area: 36905  
Amount: 0.981981  
Amount Units: pg/ul



### Audit Reason: Incomplete Integration

## Eurofins Knoxville

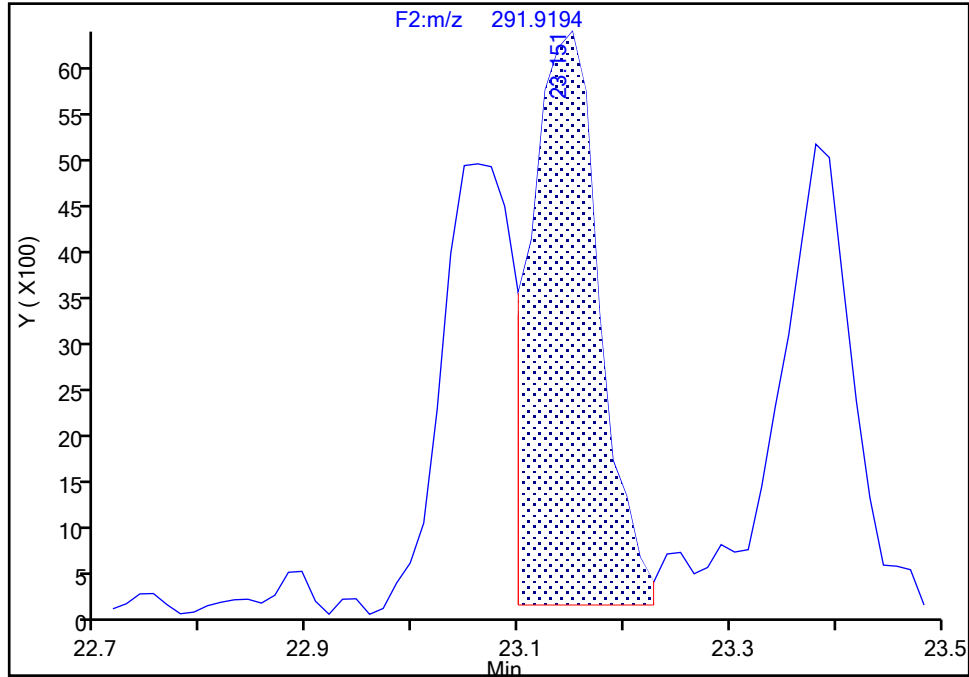
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 2

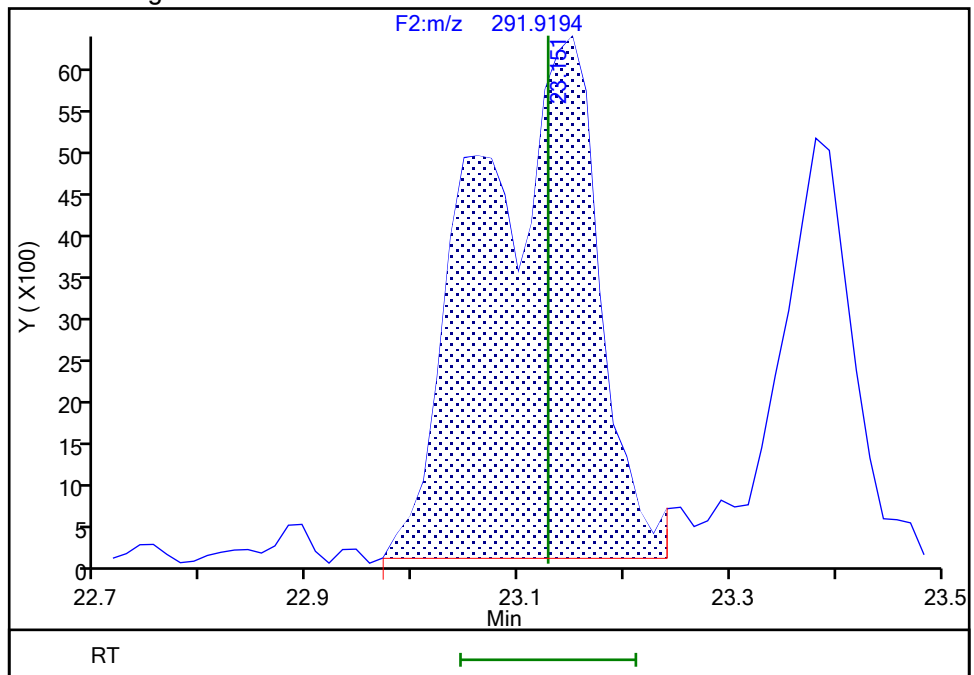
RT: 23.15  
Area: 27565  
Amount: 0.692797  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.15  
Area: 50053  
Amount: 0.981981  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-F-2024-03957  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

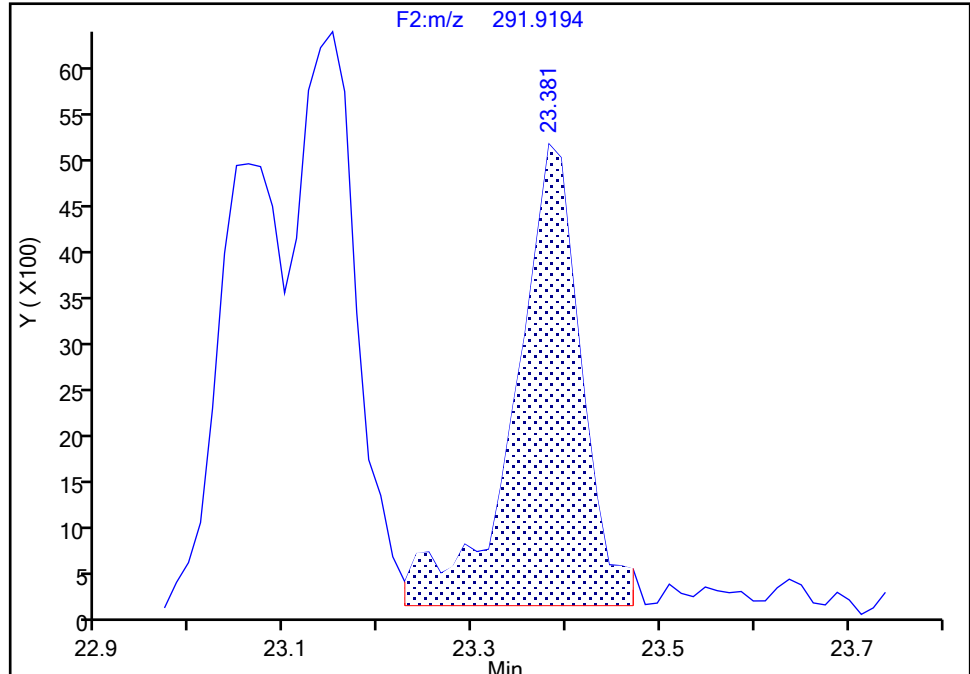
Detector F2(21.81 :35.54 )

**PCB-46, CAS: 41464-47-5**

Signal: 2

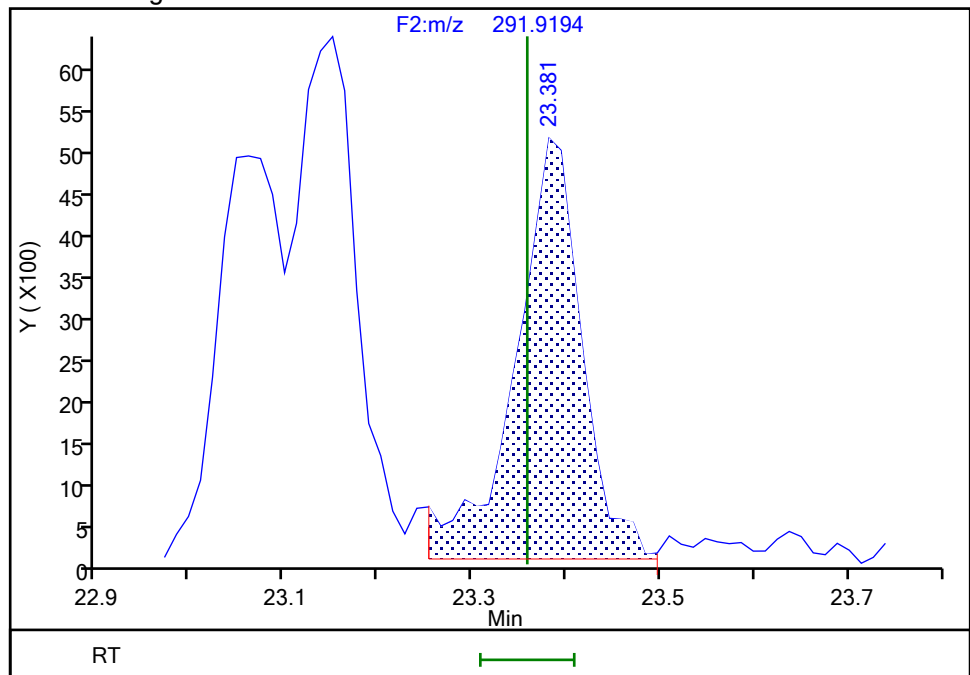
RT: 23.38  
Area: 24759  
Amount: 0.646077  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.38  
Area: 24801  
Amount: 0.572922  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

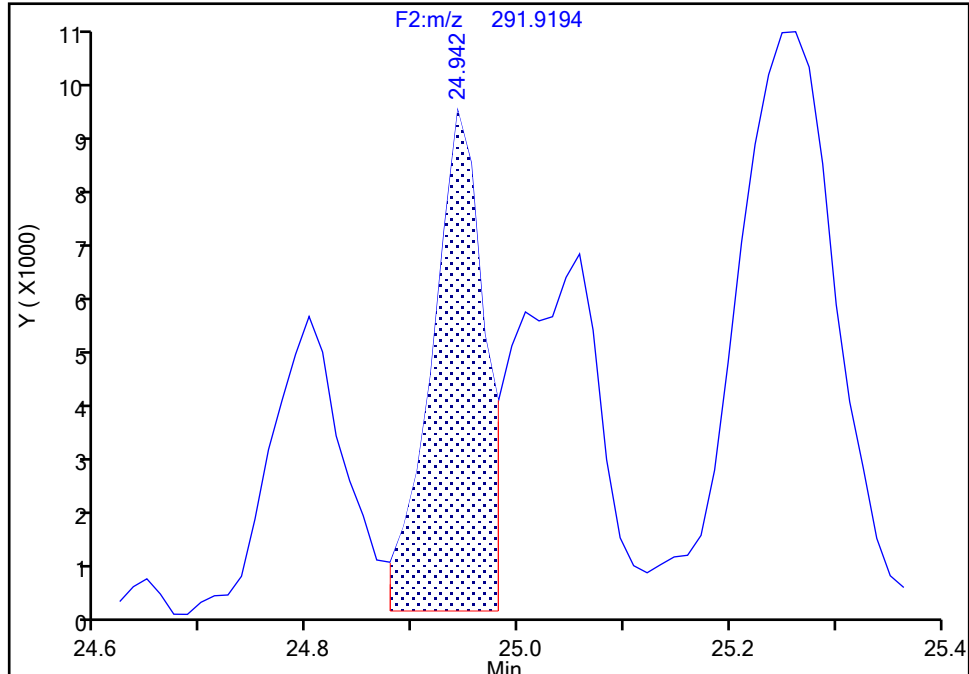
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

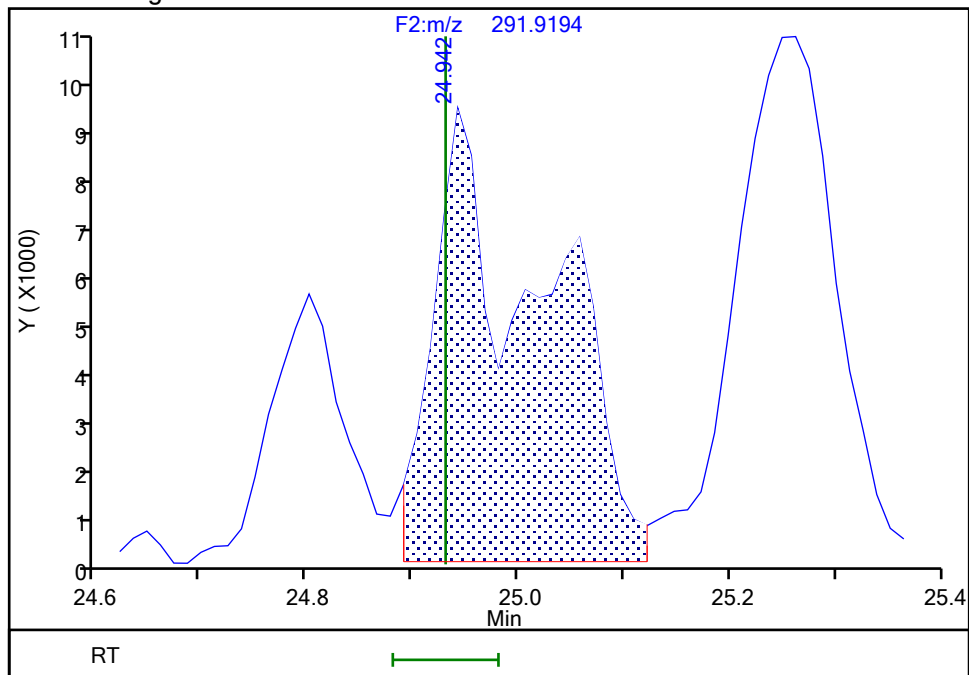
RT: 24.94  
Area: 30396  
Amount: 0.858929  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.94  
Area: 64927  
Amount: 1.040983  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:29:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

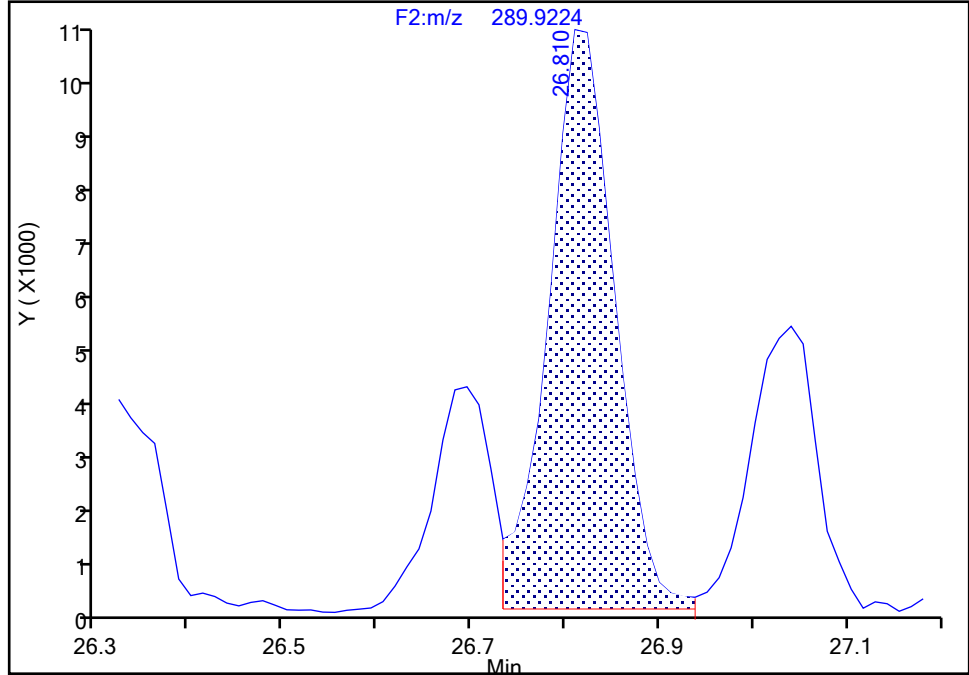
Detector F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 1

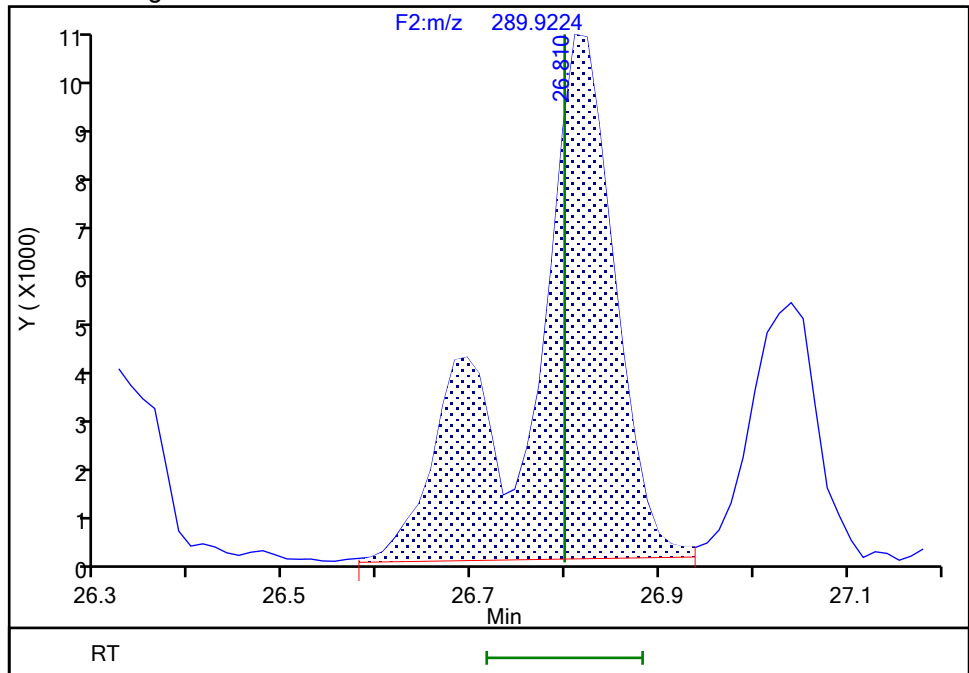
RT: 26.81  
Area: 51372  
Amount: 1.634828  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.81  
Area: 69186  
Amount: 1.611545  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:30:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

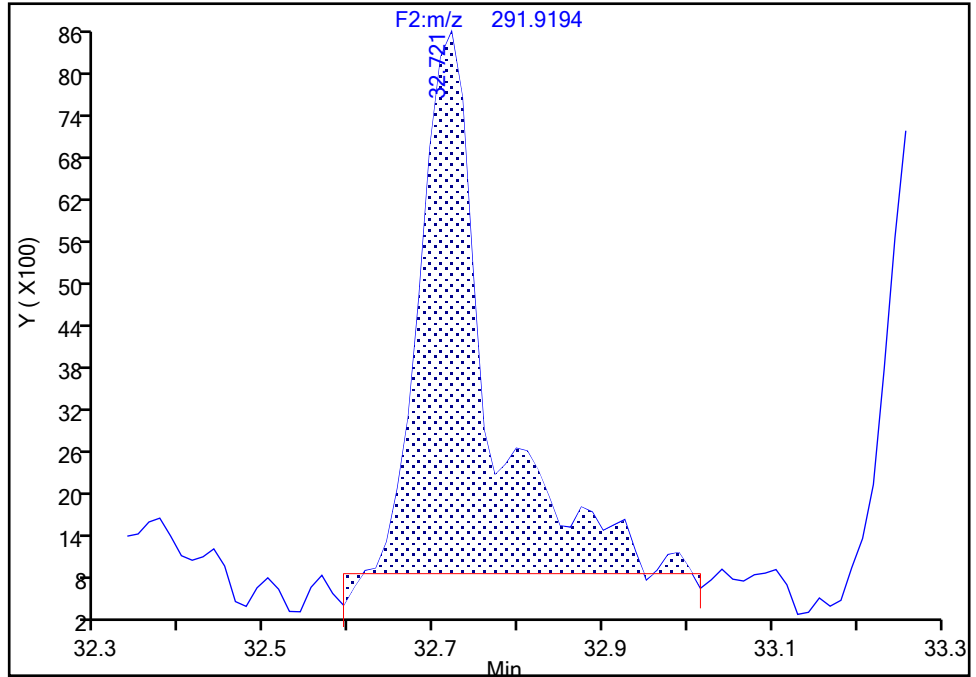
Detector F2(21.81 :35.54 )

**PCB-79, CAS: 41464-48-6**

Signal: 2

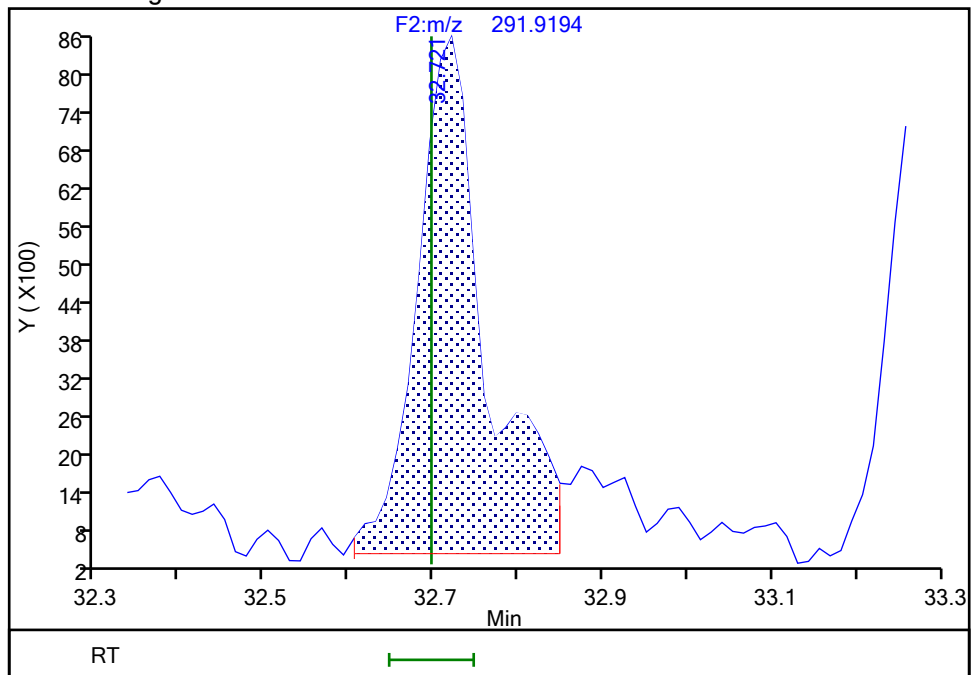
RT: 32.72  
Area: 43504  
Amount: 0.482447  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.72  
Area: 46208  
Amount: 0.502698  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:32:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

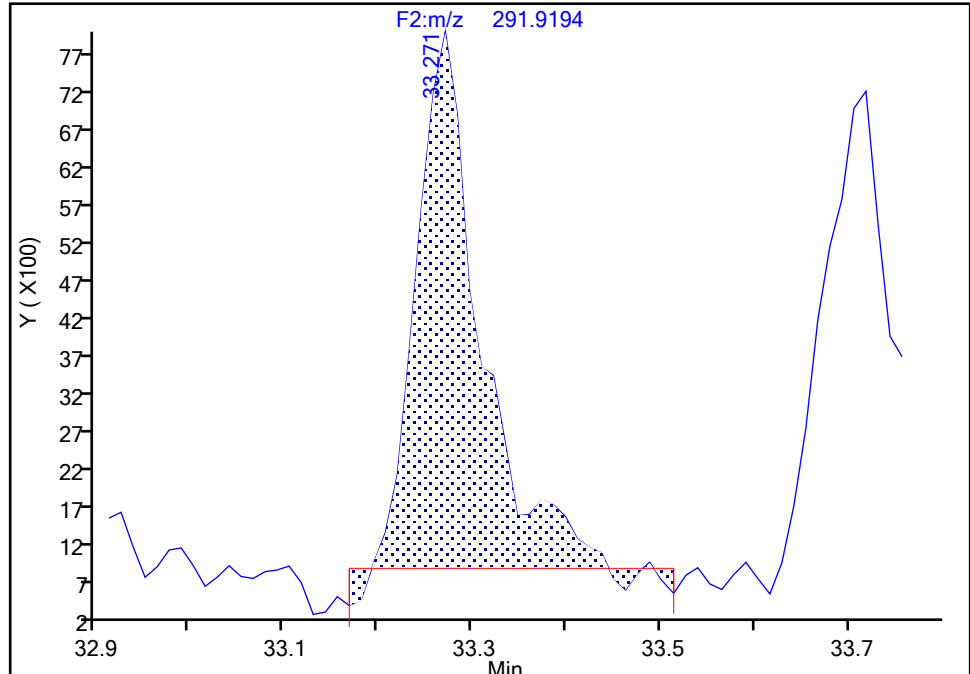
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-78, CAS: 70362-49-1

Signal: 2

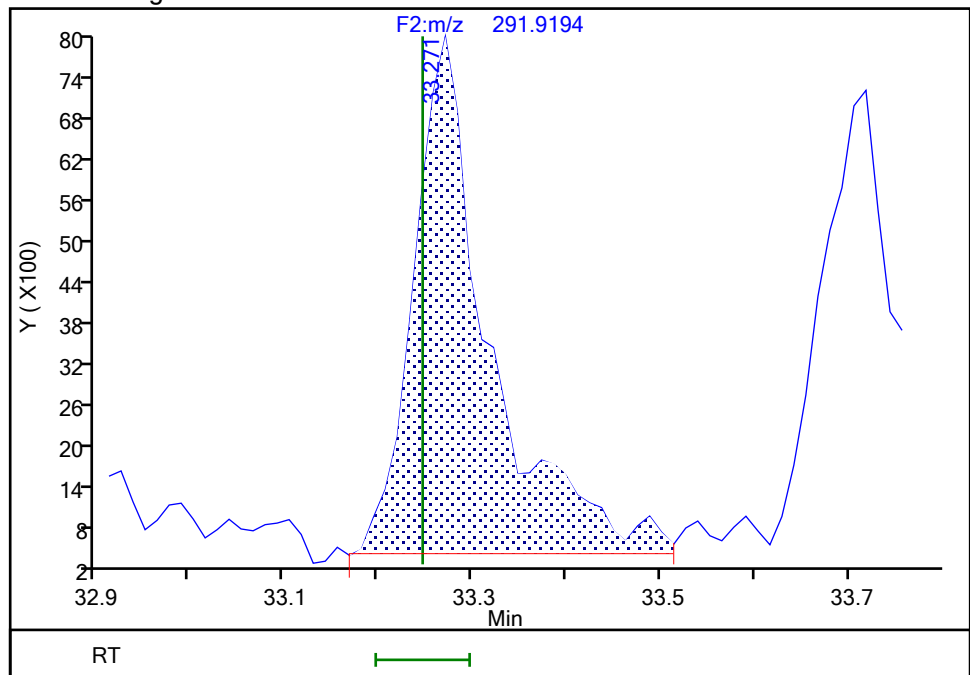
RT: 33.27  
Area: 33199  
Amount: 0.483750  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.27  
Area: 42776  
Amount: 0.568900  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:30:57 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

## Eurofins Knoxville

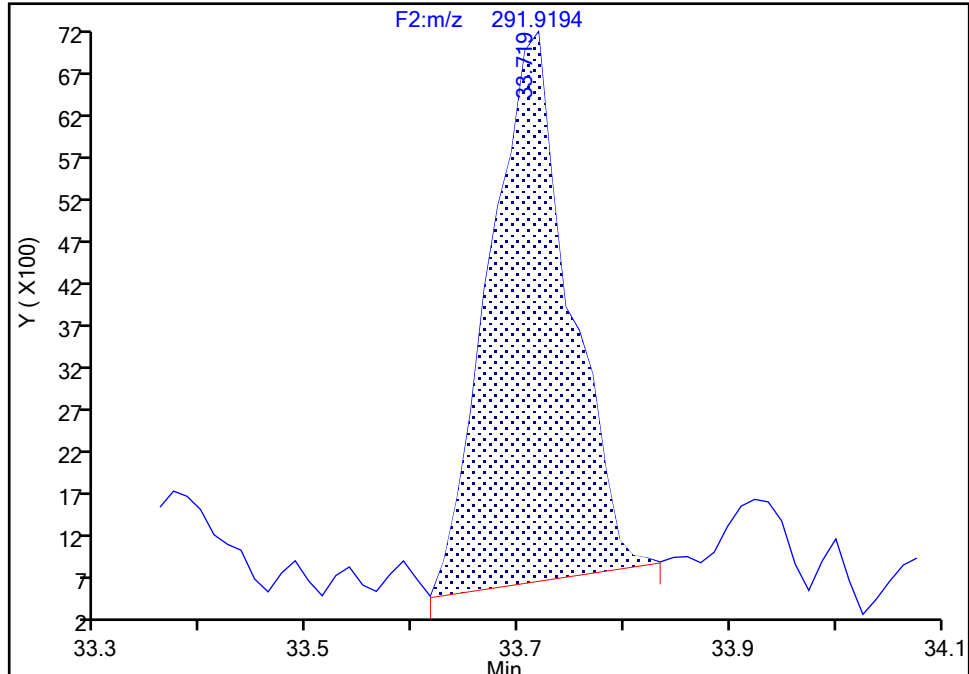
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-81, CAS: 70362-50-4**

Signal: 2

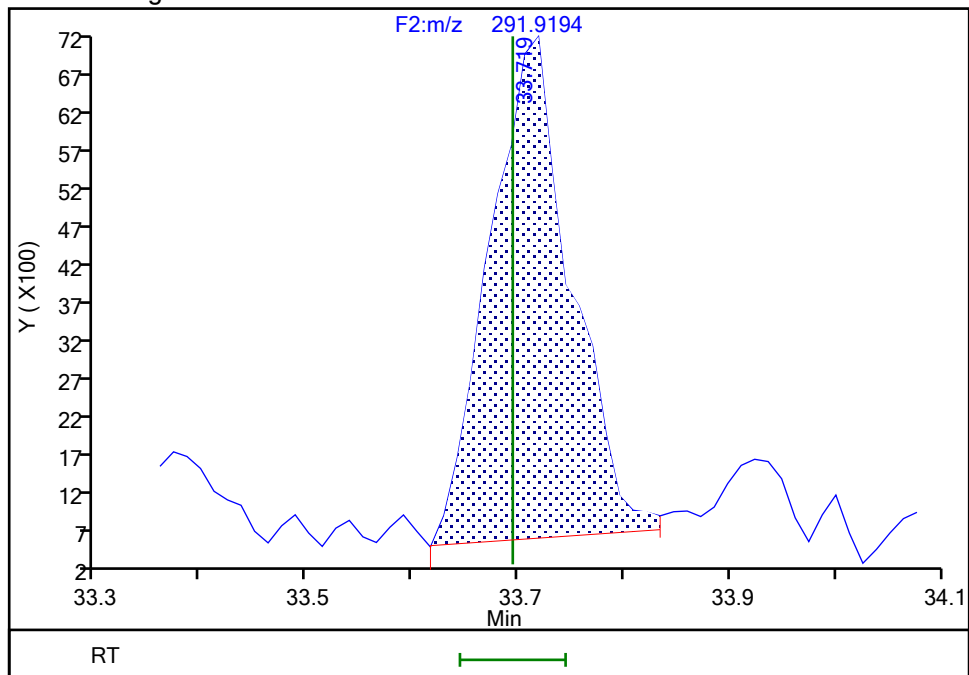
RT: 33.72  
Area: 34022  
Amount: 0.537140  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.72  
Area: 35118  
Amount: 0.518318  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:31:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

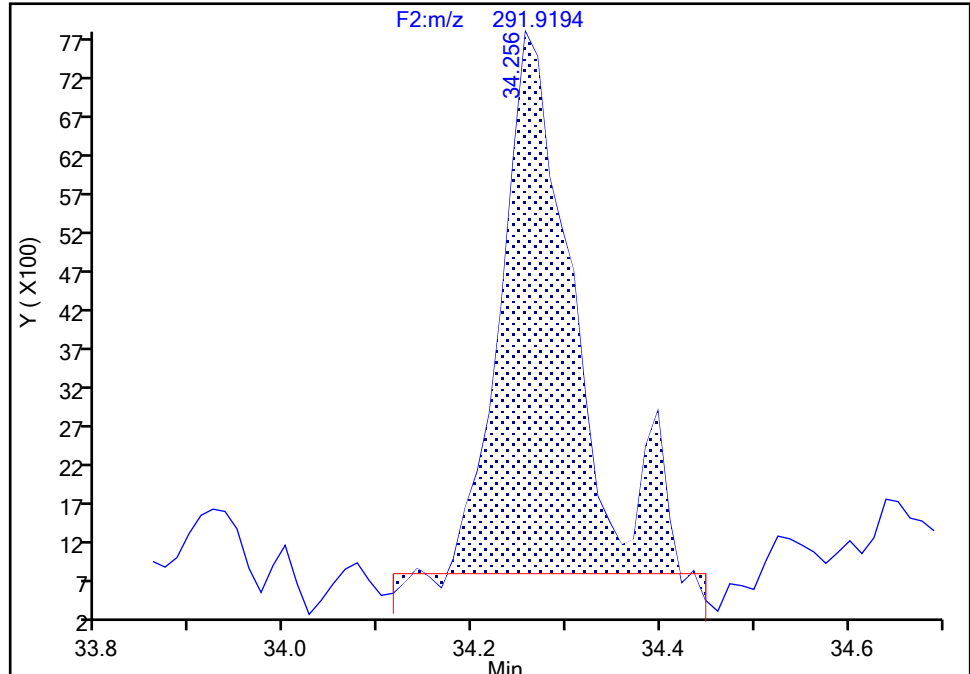
Detector: F2(21.81 :35.54 )

**PCB-77, CAS: 32598-13-3**

Signal: 2

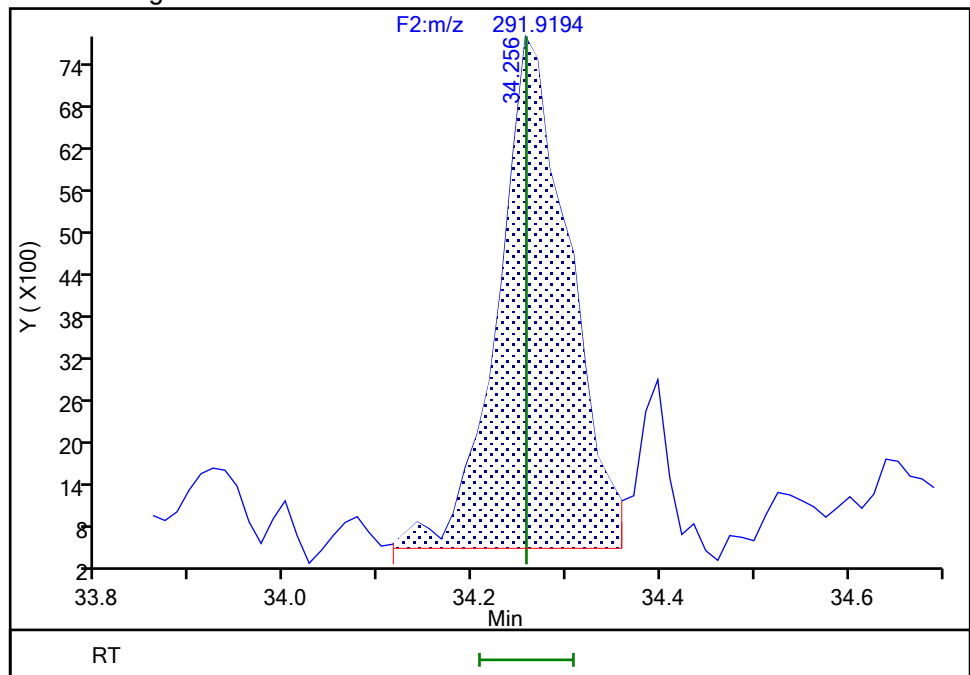
RT: 34.26  
Area: 37472  
Amount: 0.539276  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.26  
Area: 38606  
Amount: 0.539333  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:31:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

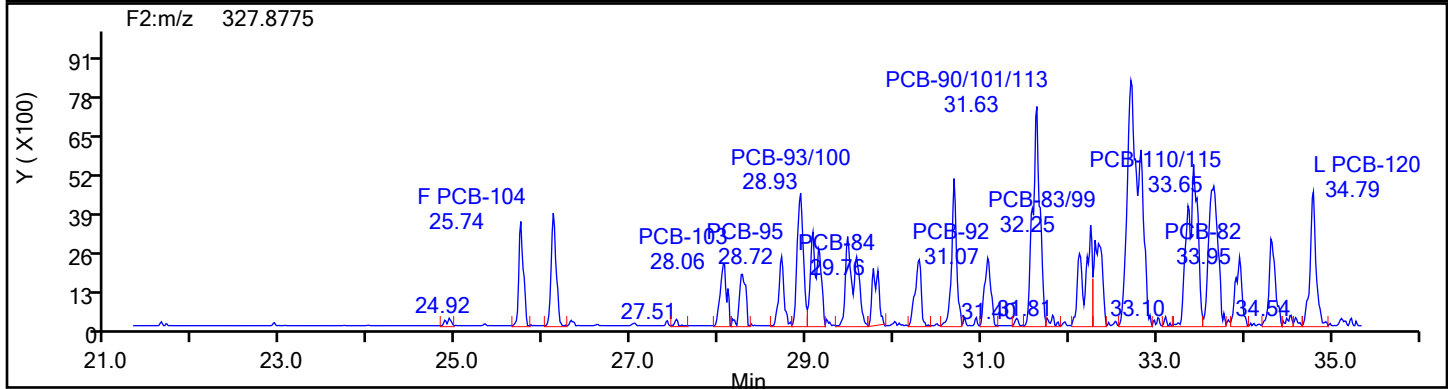
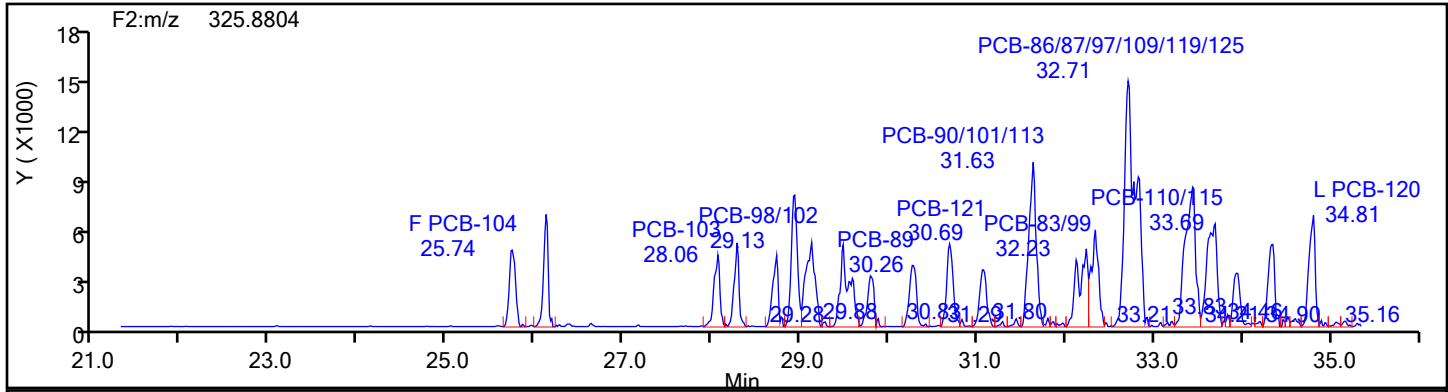
Worklist#: 87130

Sample Line#: 1

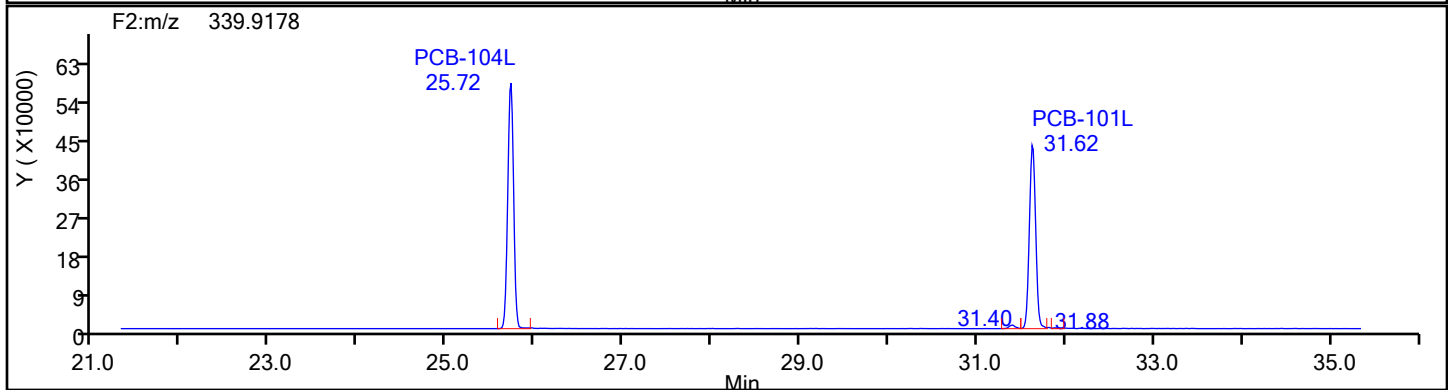
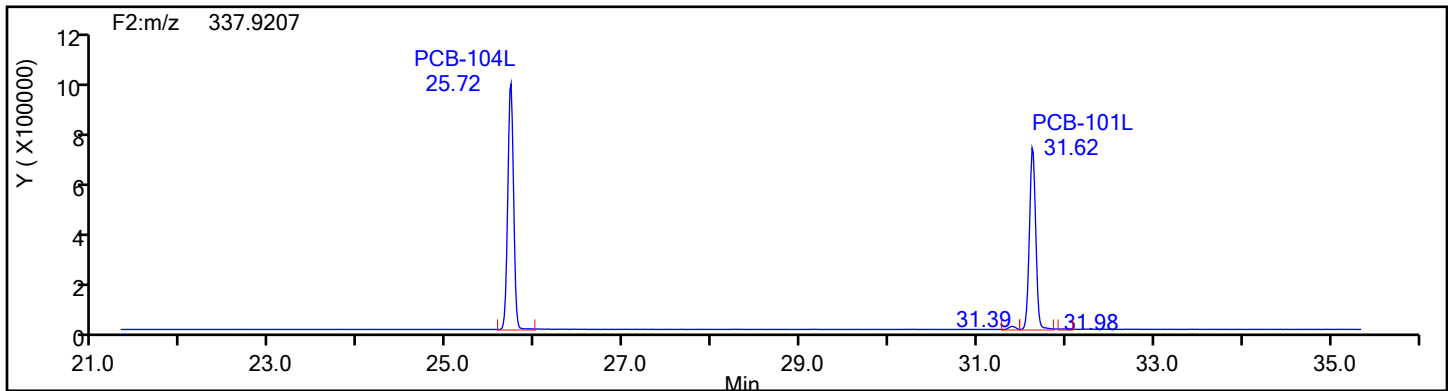
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



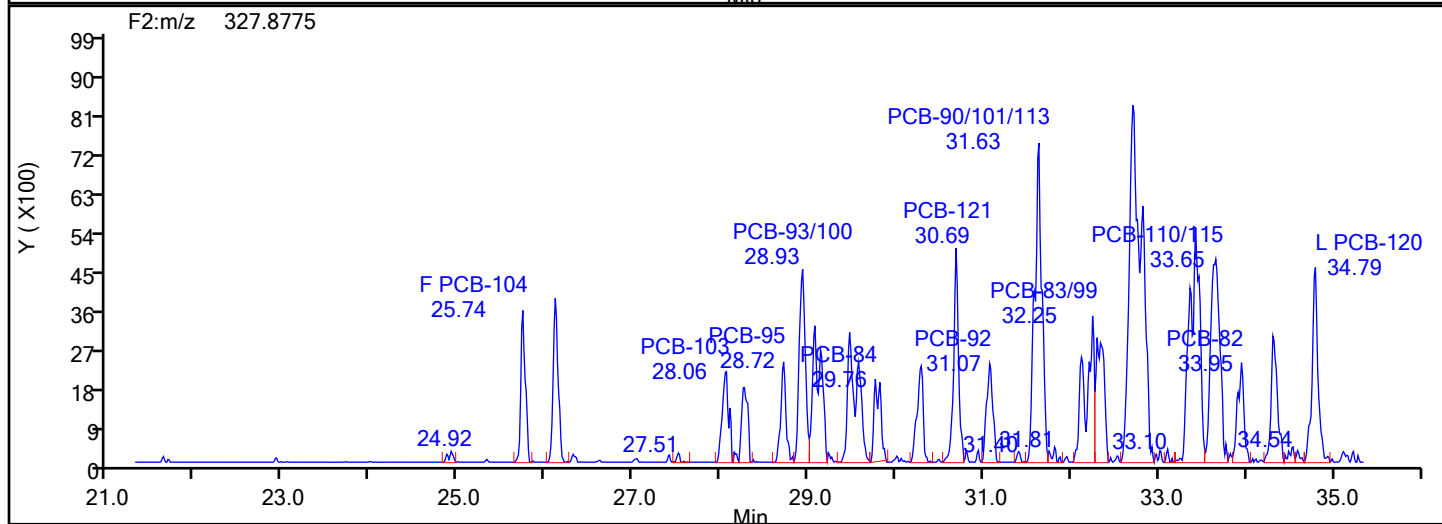
PePCB F2 Standards



Column Dia: 0.25 mm

Chromatogram showing the separation of PCBs. The x-axis is labeled 'Min' and ranges from 21.0 to 35.0. The y-axis is labeled 'Y (X1000)' and ranges from 0 to 18. The chromatogram displays several peaks, with the following retention times and labels:

Retention Time (Min)	Label
25.74	F PCB-104
28.06	PCB-103
28.93	PCB-93/100
29.13	PCB-98/102
29.26	29.26
29.88	29.88
30.26	PCB-89
30.69	PCB-121
30.83	30.83
31.26	31.26
31.63	PCB-90/101/113
31.80	31.80
32.23	PCB-83/99
32.71	PCB-86/87/97/109/119/125
33.21	33.21
33.69	PCB-110/115
33.94	PCB-82
34.16	34.16
34.90	34.90
35.16	35.16
34.81	L PCB-120





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

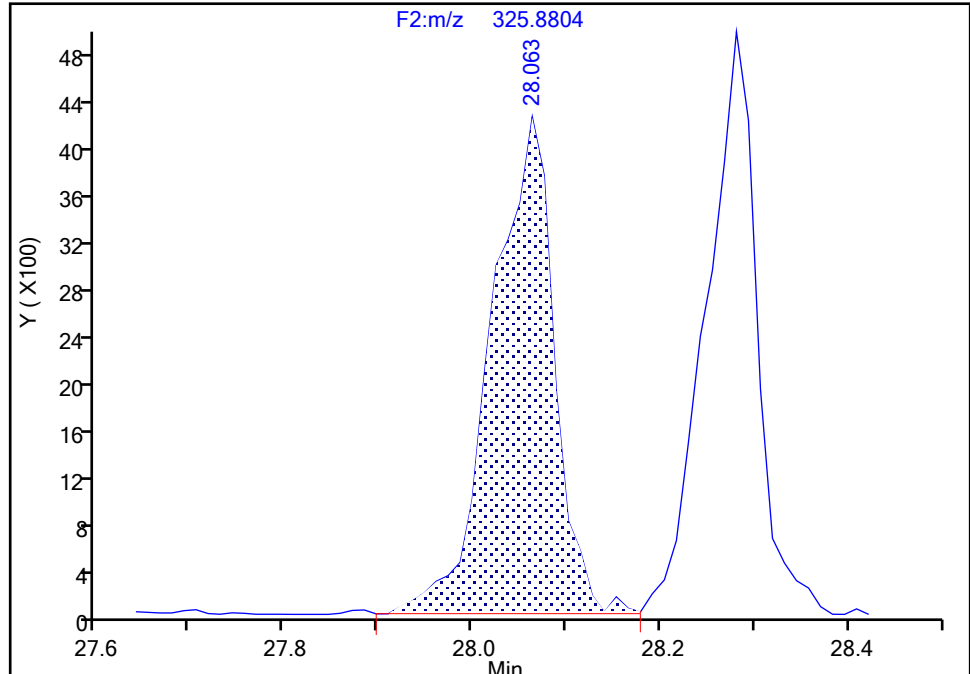
Detector F2(21.81 :35.54 )

**PCB-103, CAS: 60145-21-3**

Signal: 1

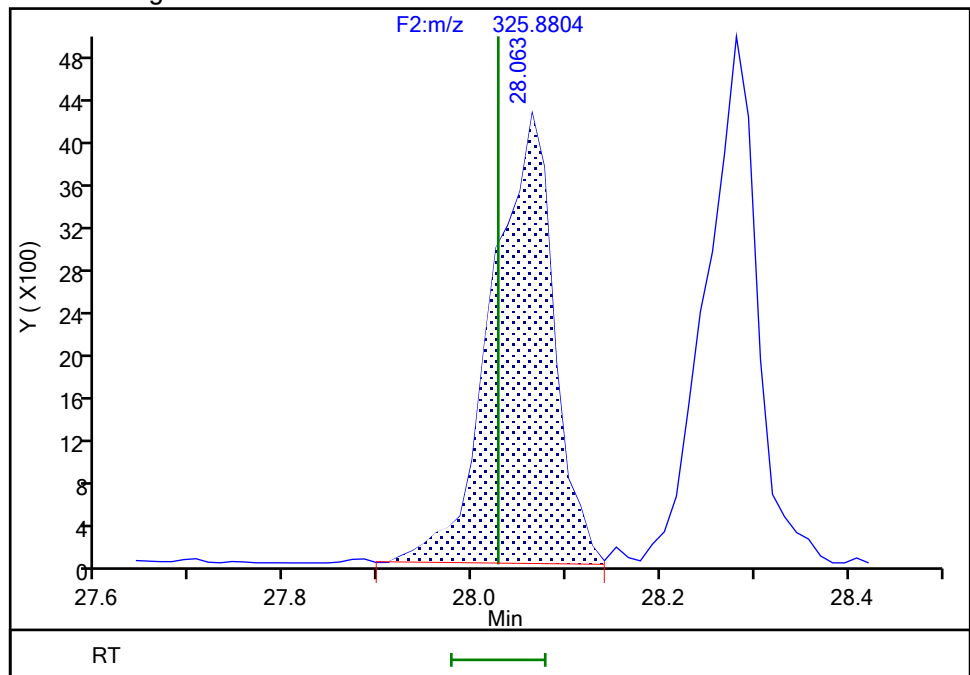
RT: 28.06  
Area: 19438  
Amount: 0.509404  
Amount Units: pg/ul

## Processing Integration Results



RT: 28.06  
Area: 19294  
Amount: 0.499667  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

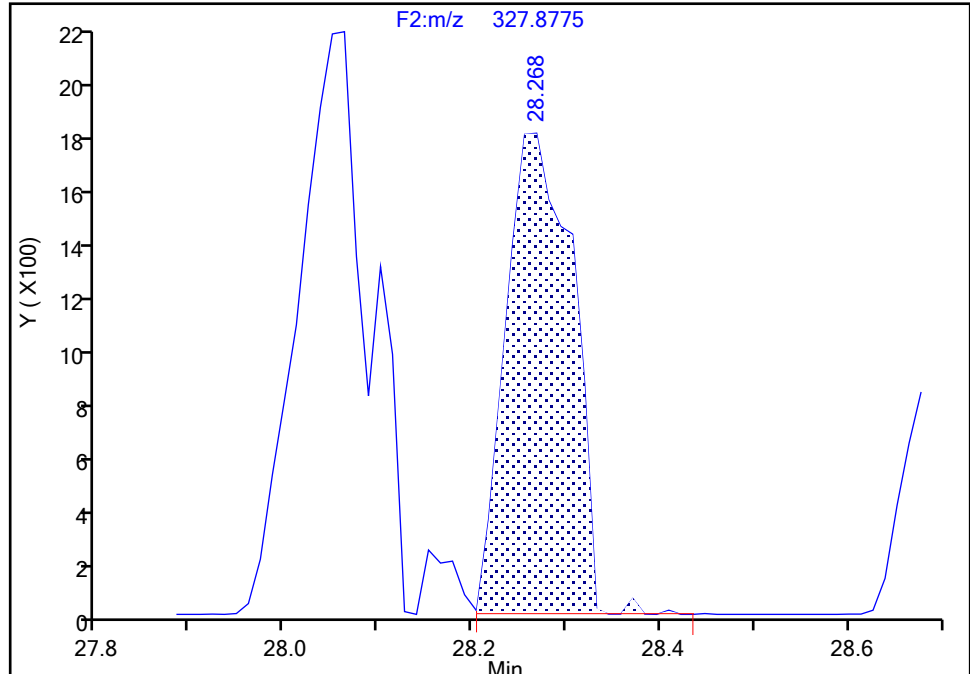
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-94, CAS: 73575-55-0

Signal: 2

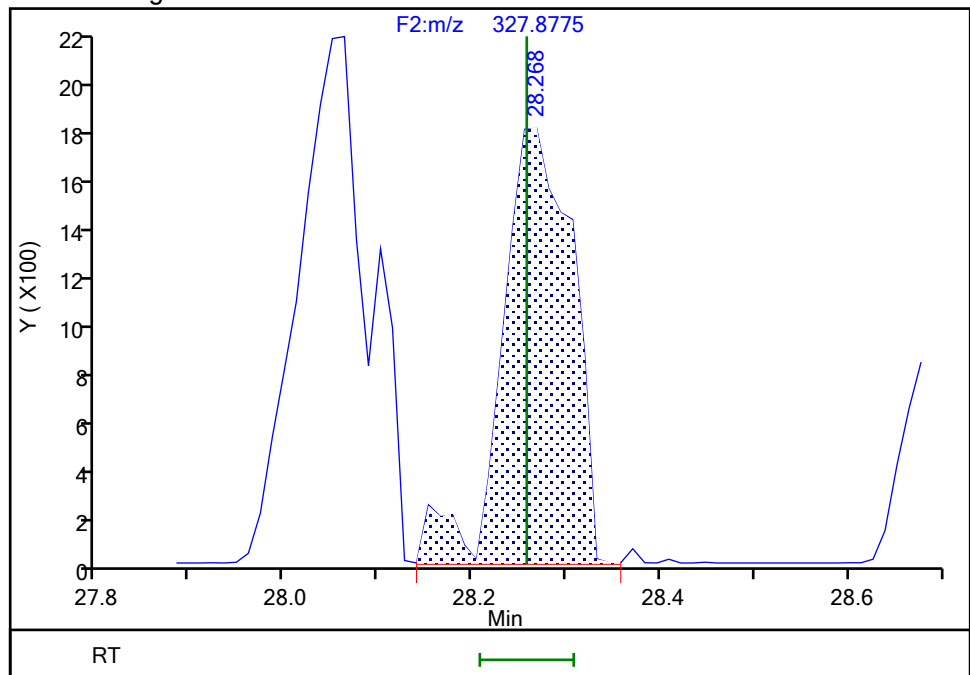
RT: 28.27  
Area: 8569  
Amount: 0.521693  
Amount Units: pg/ul

## Processing Integration Results



RT: 28.27  
Area: 9052  
Amount: 0.523542  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

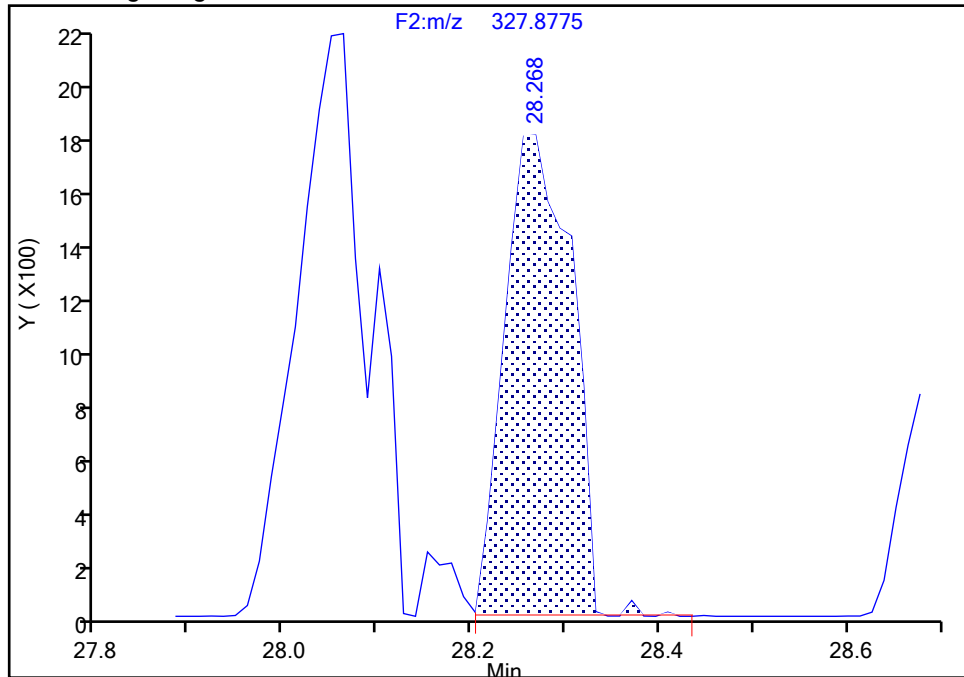
F2(21.81 :35.54 )

**PCB-94, CAS: 73575-55-0**

Signal: 2

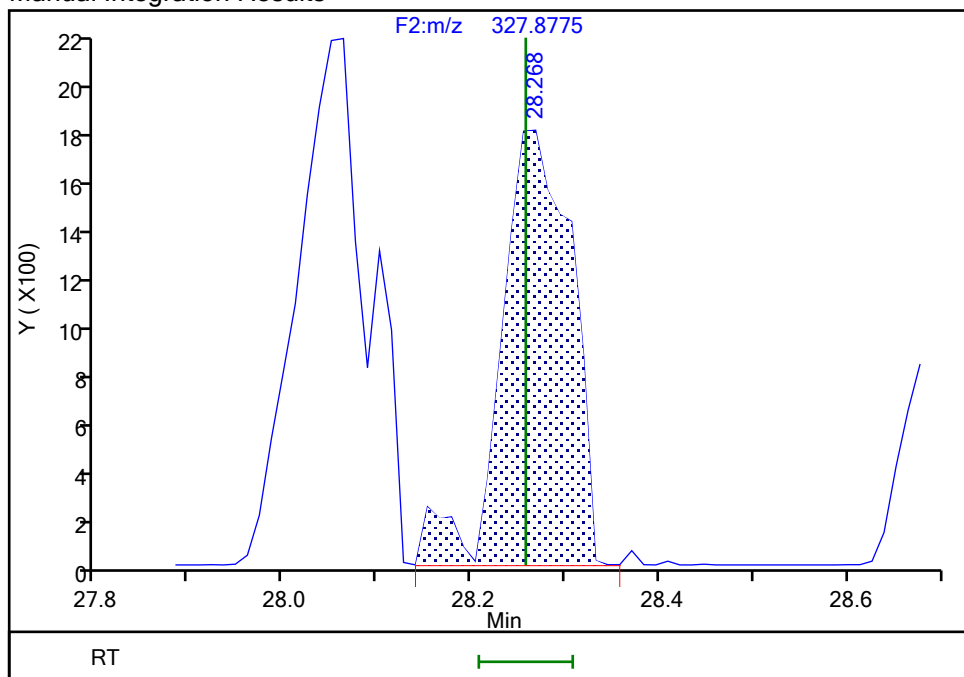
RT: 28.27  
Area: 8569  
Amount: 0.521693  
Amount Units: pg/ul

## Processing Integration Results



RT: 28.27  
Area: 9052  
Amount: 0.523542  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:50 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

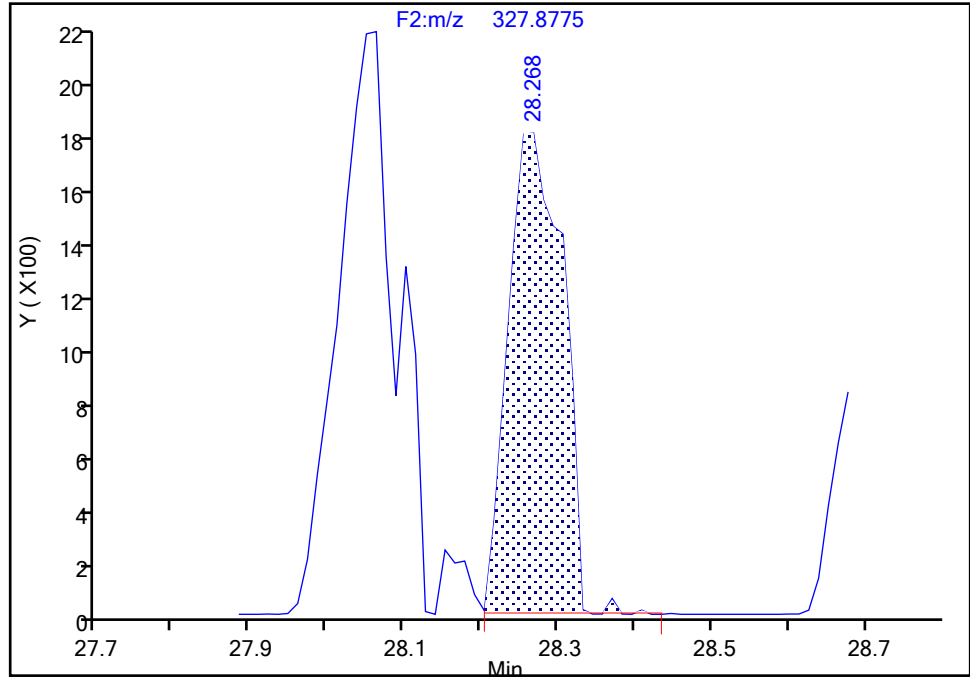
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-94, CAS: 73575-55-0**

Signal: 3

RT: 28.28  
Area: 27097  
Amount: 0.521693  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 28.28  
Area: 27753  
Amount: 0.523542  
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 19:30:50 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

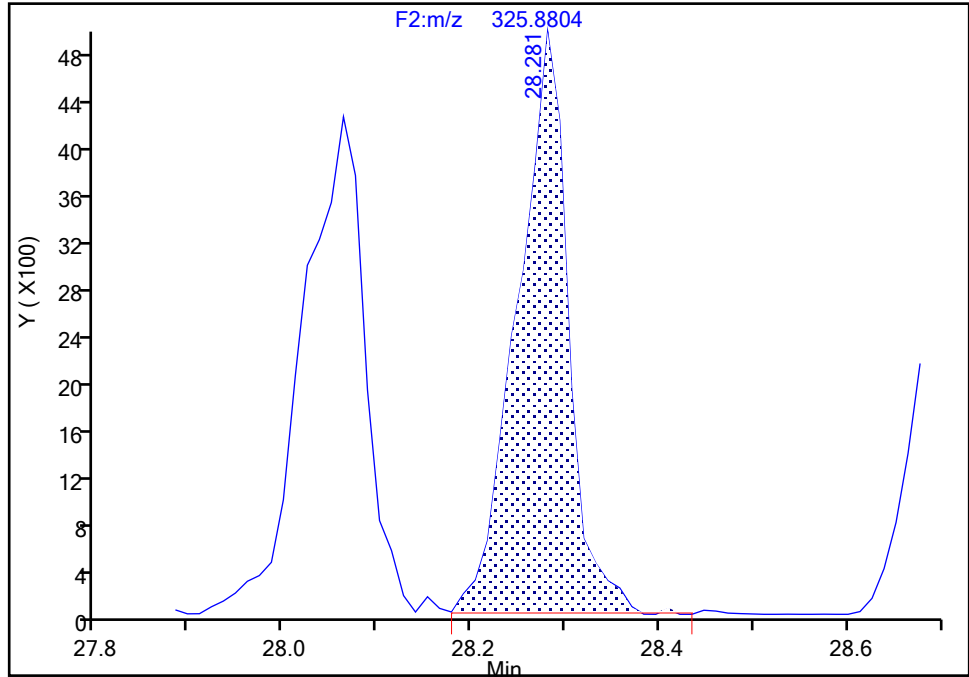
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-94, CAS: 73575-55-0

Signal: 1

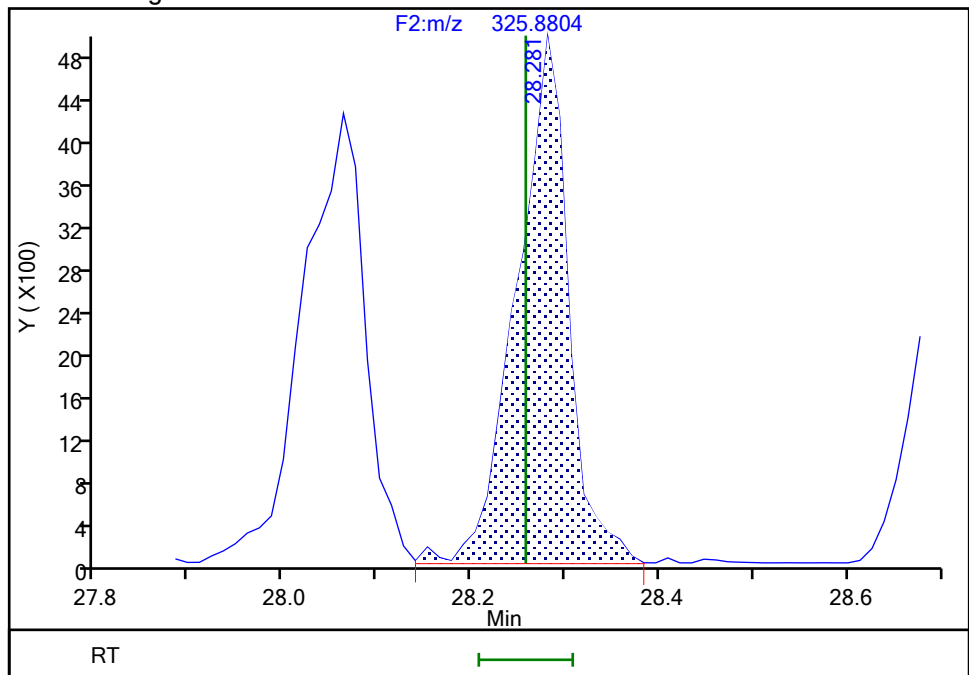
RT: 28.28  
Area: 18528  
Amount: 0.521693  
Amount Units: pg/ul

## Processing Integration Results



RT: 28.28  
Area: 18701  
Amount: 0.523542  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:52 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

## Eurofins Knoxville

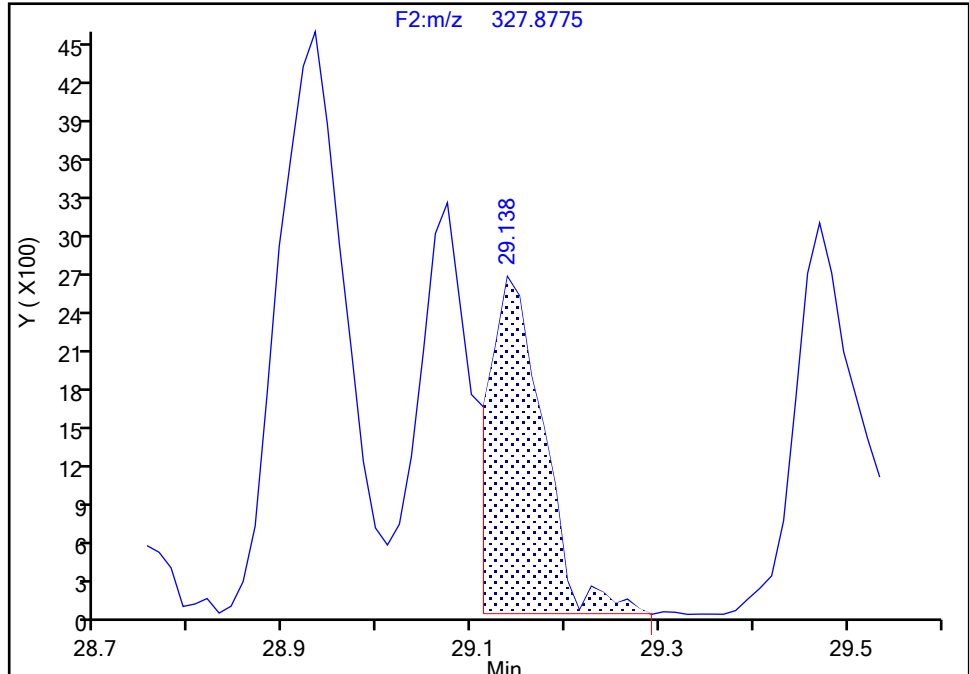
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-98/102, CAS: STL01843

Signal: 2

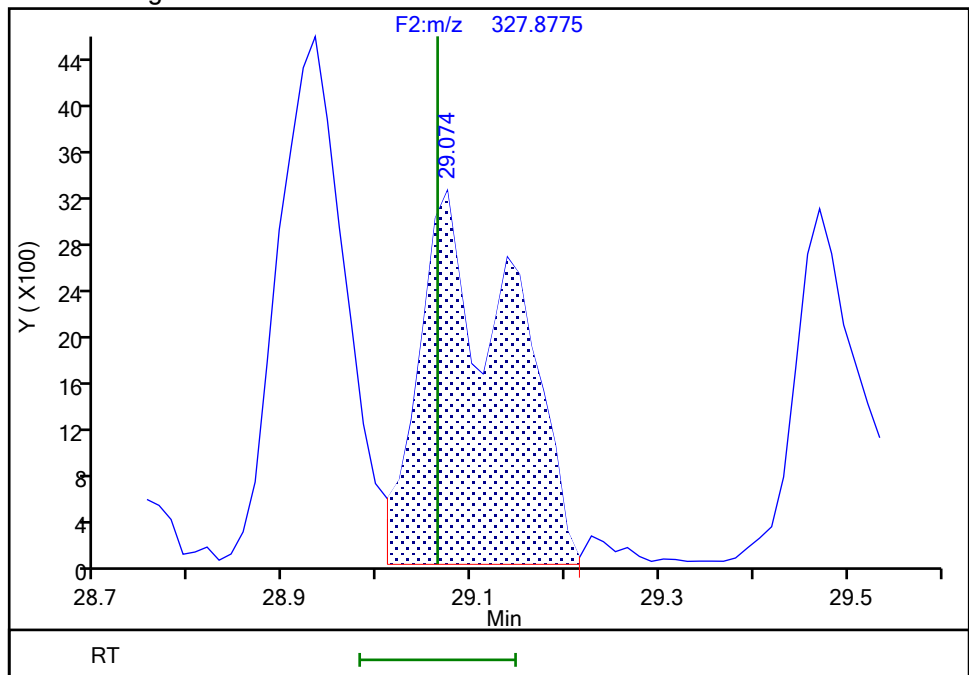
RT: 29.14  
Area: 10061  
Amount: 0.761342  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.07  
Area: 21429  
Amount: 0.999328  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

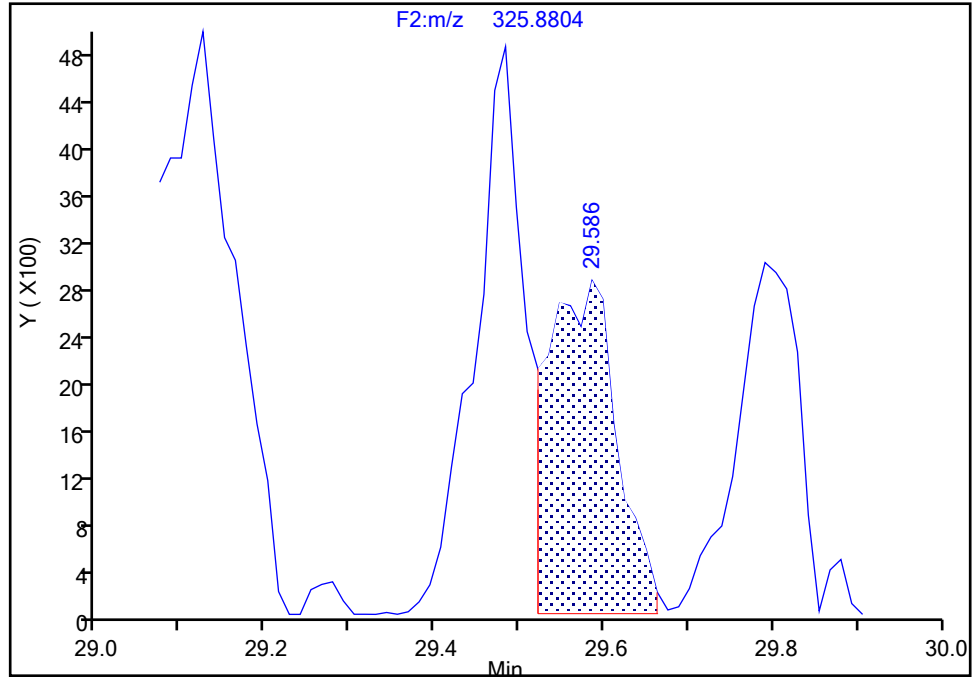
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-88/91, CAS: STL01812

Signal: 1

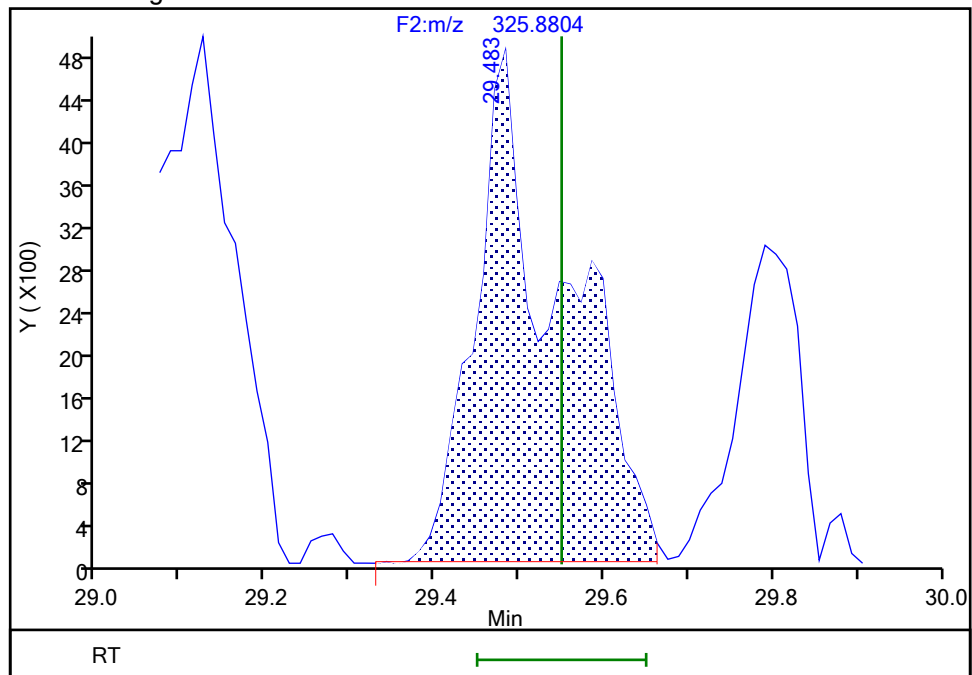
RT: 29.59  
Area: 15618  
Amount: 0.515955  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.48  
Area: 34391  
Amount: 1.044024  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

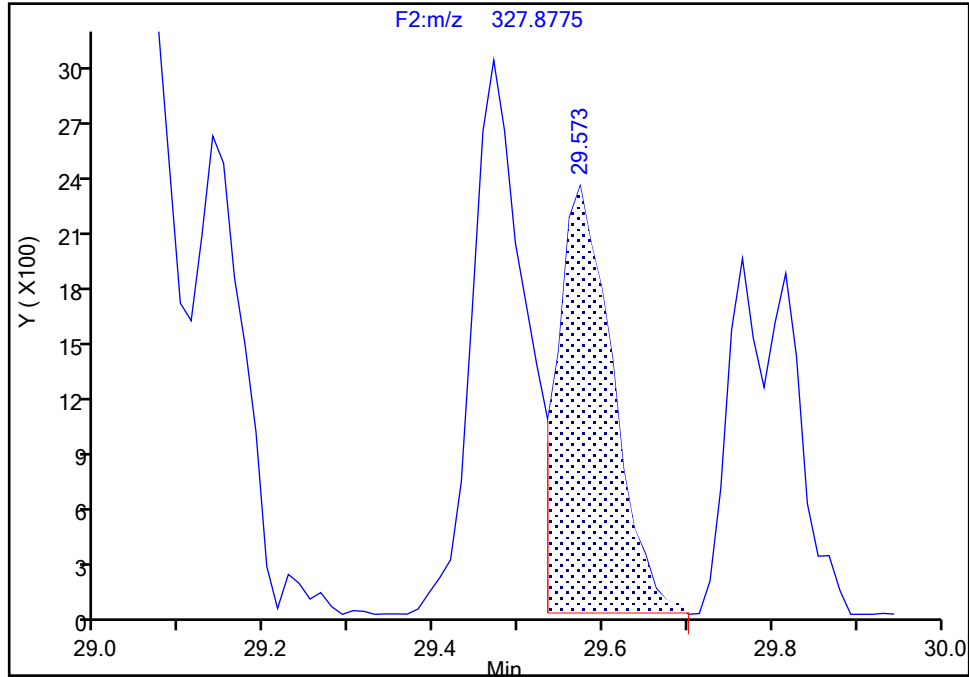
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-88/91, CAS: STL01812**

Signal: 2

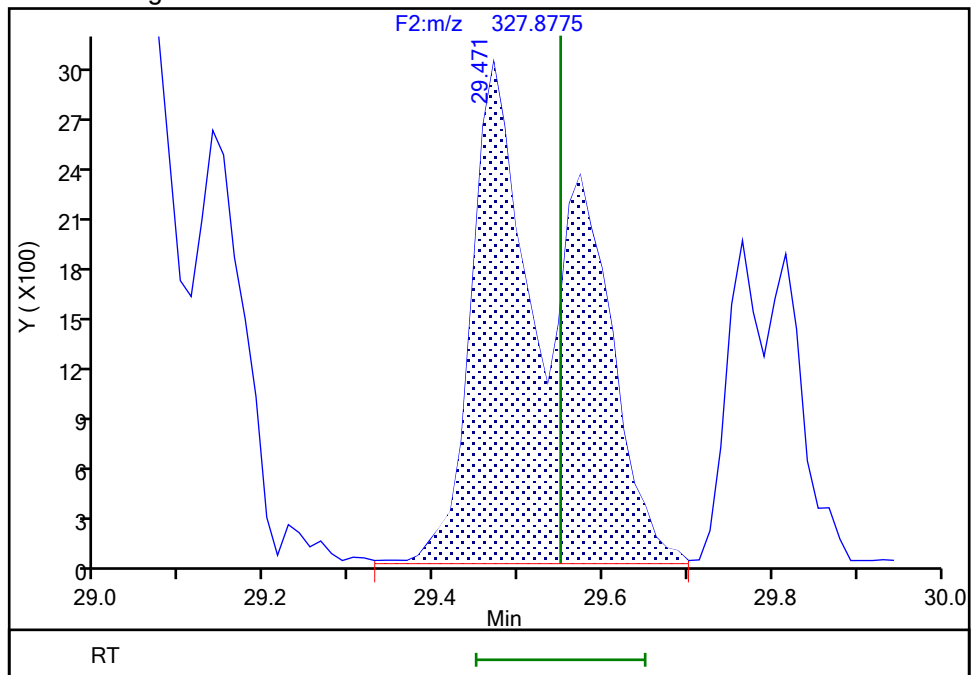
RT: 29.57  
Area: 10357  
Amount: 0.515955  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.47  
Area: 23653  
Amount: 1.044024  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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9/6/2024  
BASFHWC-Fa  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

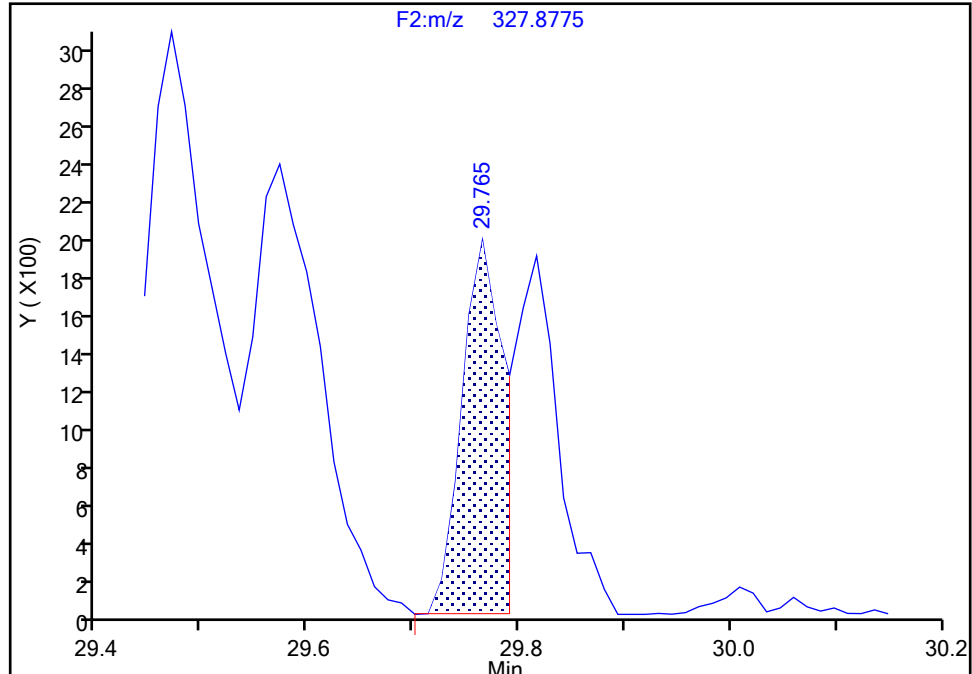
Detector F2(21.81 :35.54 )

PCB-84, CAS: 52663-60-2

Signal: 2

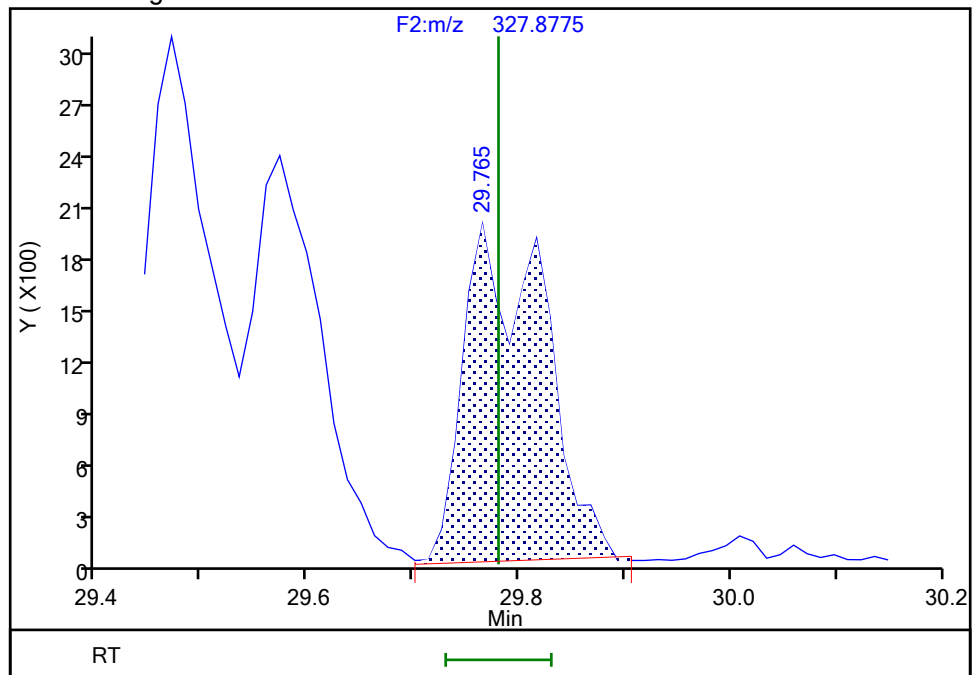
RT: 29.76  
Area: 4970  
Amount: 0.427934  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.76  
Area: 10134  
Amount: 0.496810  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:39:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

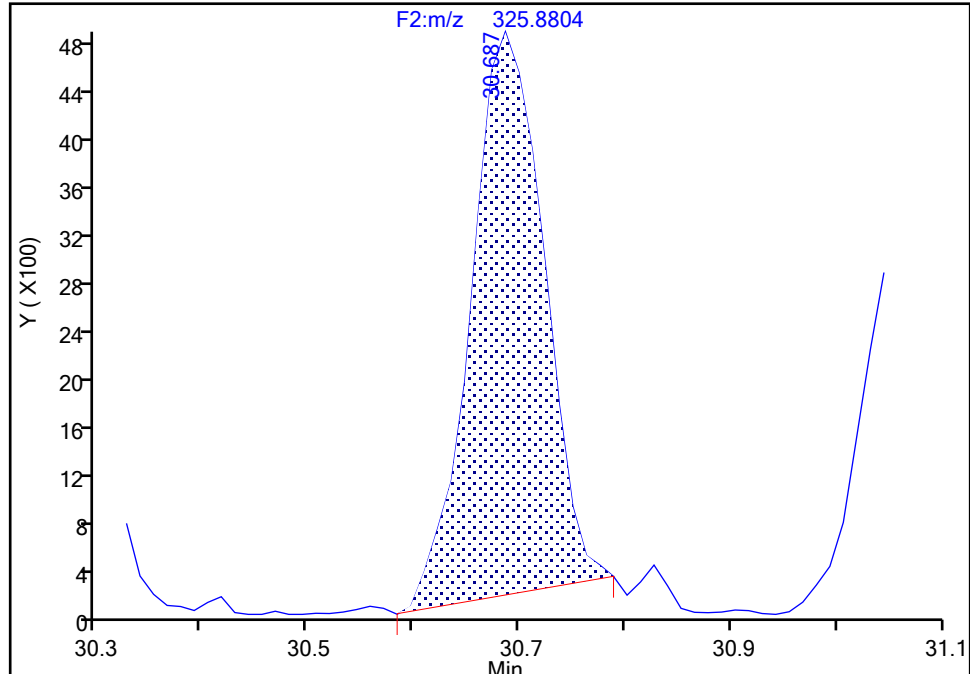
Detector F2(21.81 :35.54 )

**PCB-121, CAS: 56558-18-0**

Signal: 1

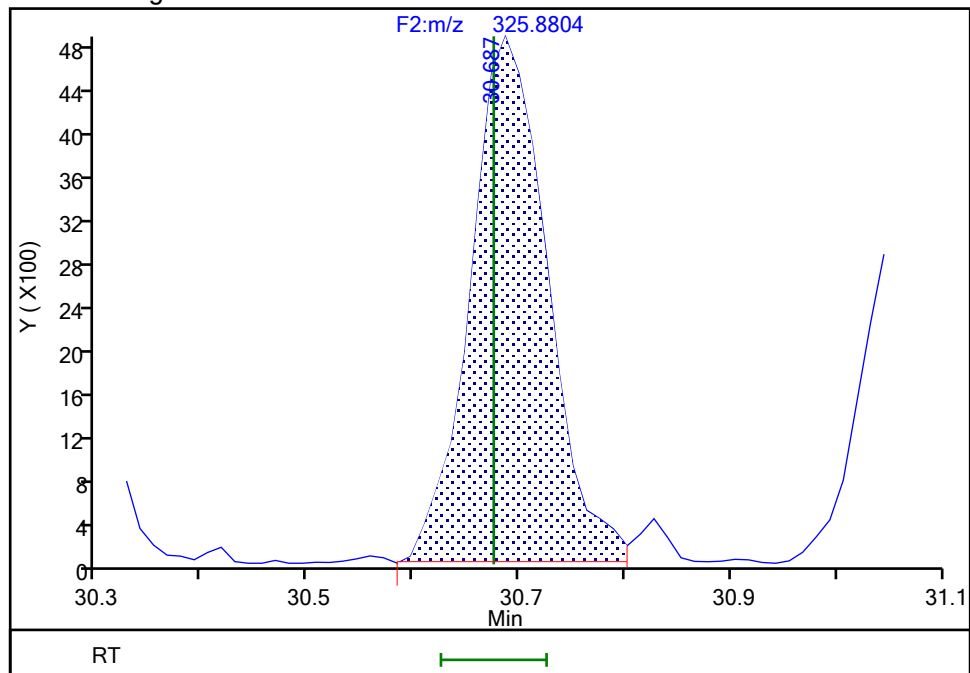
RT: 30.69  
Area: 22370  
Amount: 0.468205  
Amount Units: pg/ul

## Processing Integration Results



RT: 30.69  
Area: 24350  
Amount: 0.482931  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

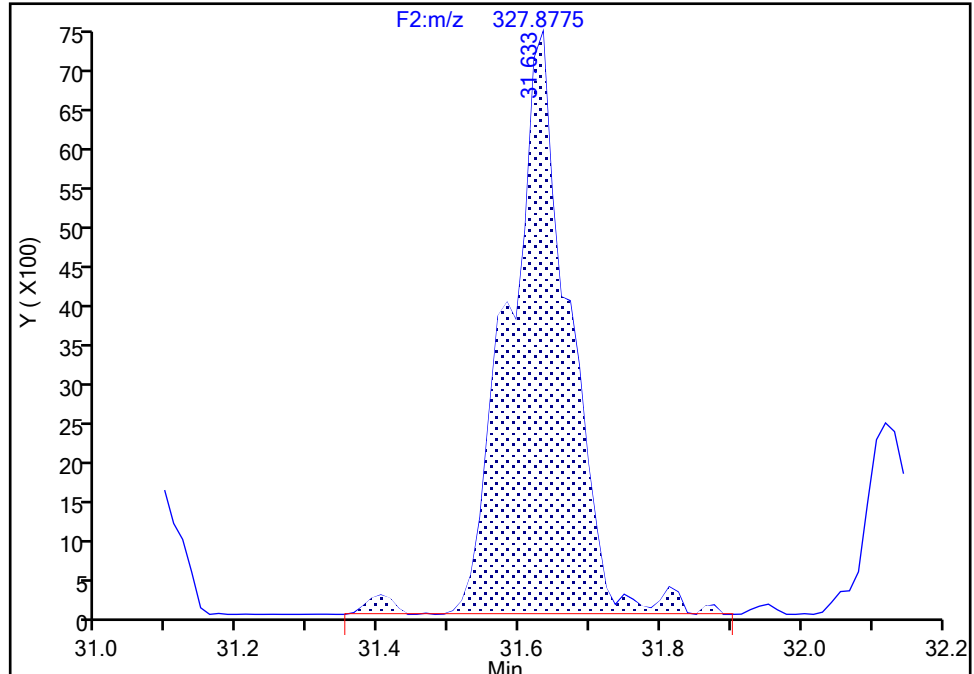
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-90/101/113, CAS: STL01813

Signal: 2

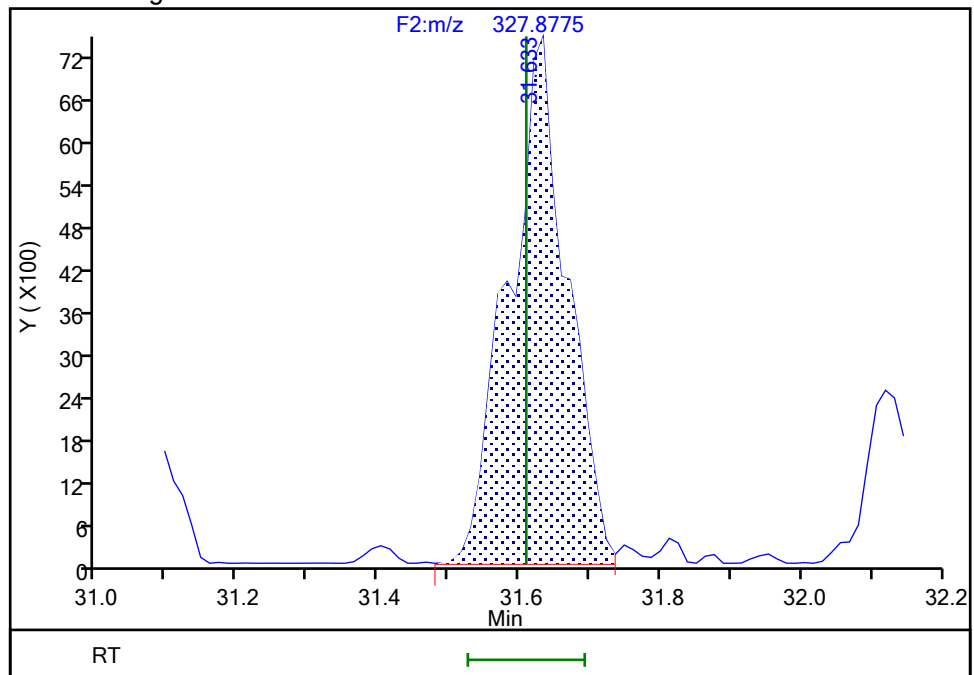
RT: 31.63  
Area: 44490  
Amount: 1.511719  
Amount Units: pg/ul

## Processing Integration Results



RT: 31.63  
Area: 42490  
Amount: 1.490119  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:29:15 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

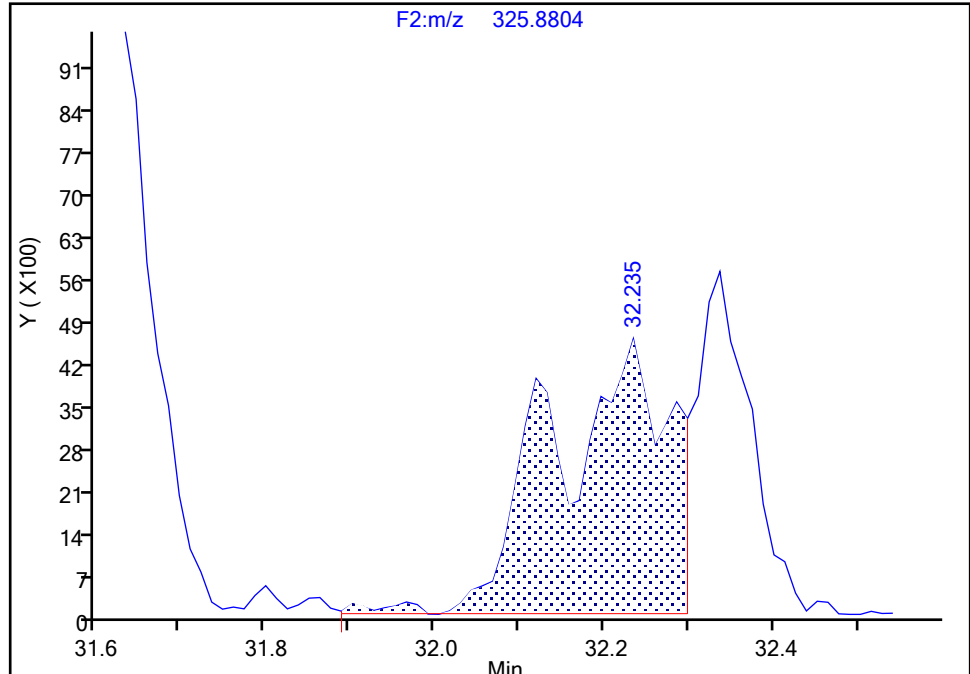
Detector F2(21.81 :35.54 )

**PCB-83/99, CAS: STL01809**

Signal: 1

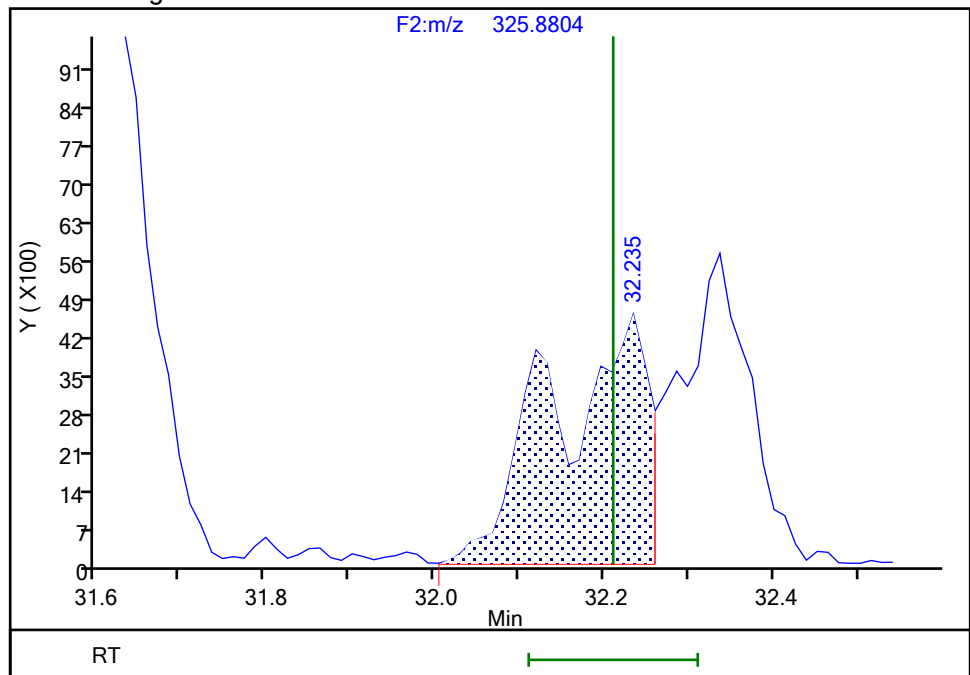
RT: 32.23  
Area: 42856  
Amount: 1.064486  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.23  
Area: 34703  
Amount: 0.994053  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:29:46 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

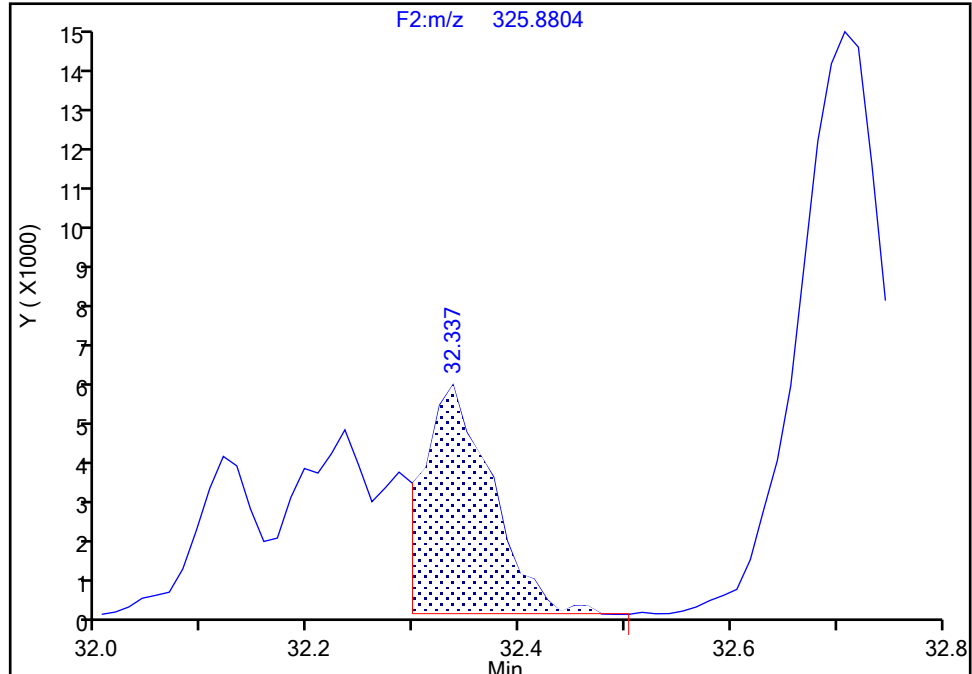
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-112, CAS: 74472-36-9**

Signal: 1

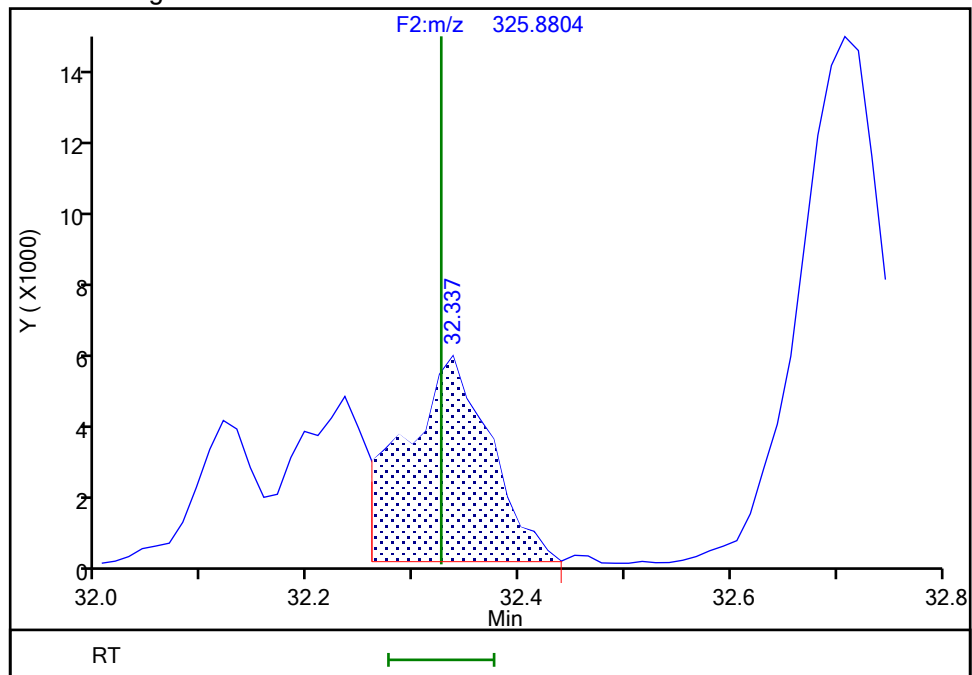
RT: 32.34  
Area: 24777  
Amount: 0.434584  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.34  
Area: 31739  
Amount: 0.511852  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

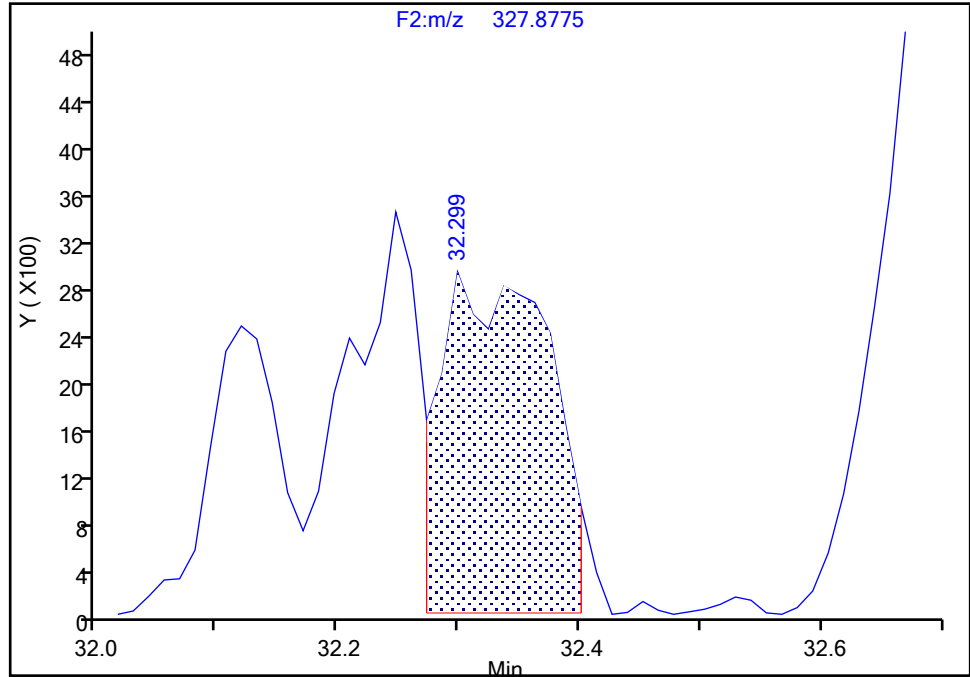
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-112, CAS: 74472-36-9

Signal: 2

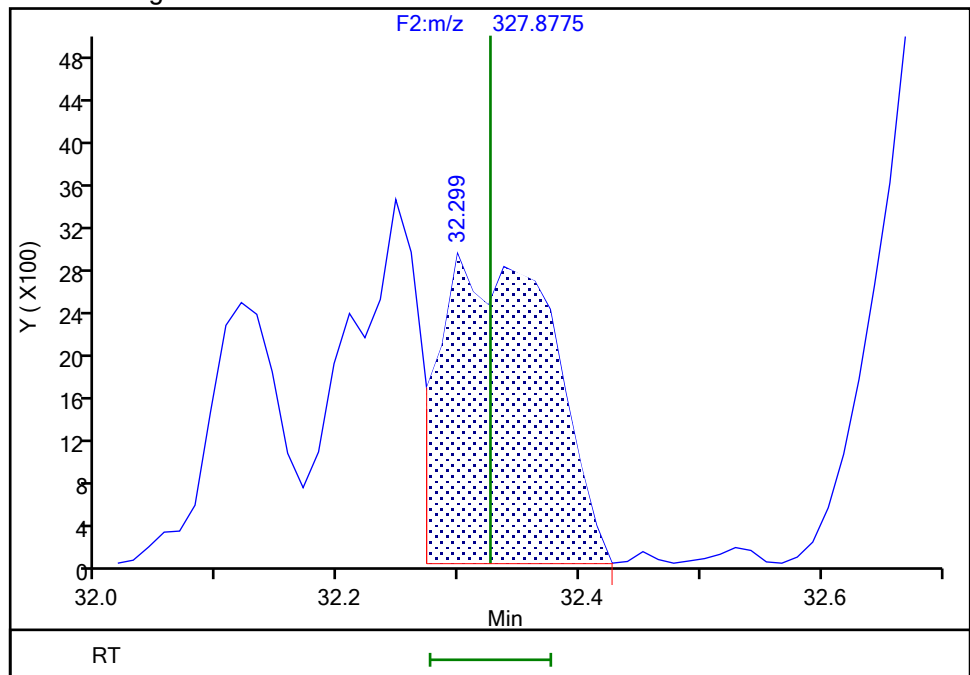
RT: 32.30  
Area: 17821  
Amount: 0.434584  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.30  
Area: 18375  
Amount: 0.511852  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:30:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d		
Injection Date:	31-May-2024 14:36:00	Instrument ID:	D2D
Lims ID:	IC L1		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F2(21.81 :35.54

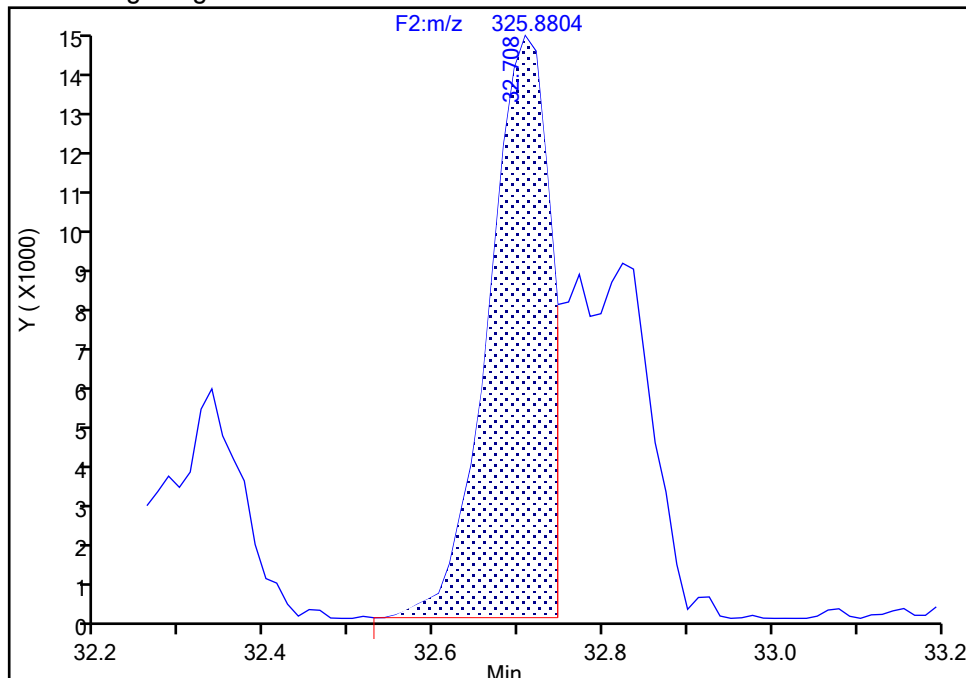
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ALS Bottle#:      0           Worklist Smp#:      1
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F2(21.81 :35.54 )

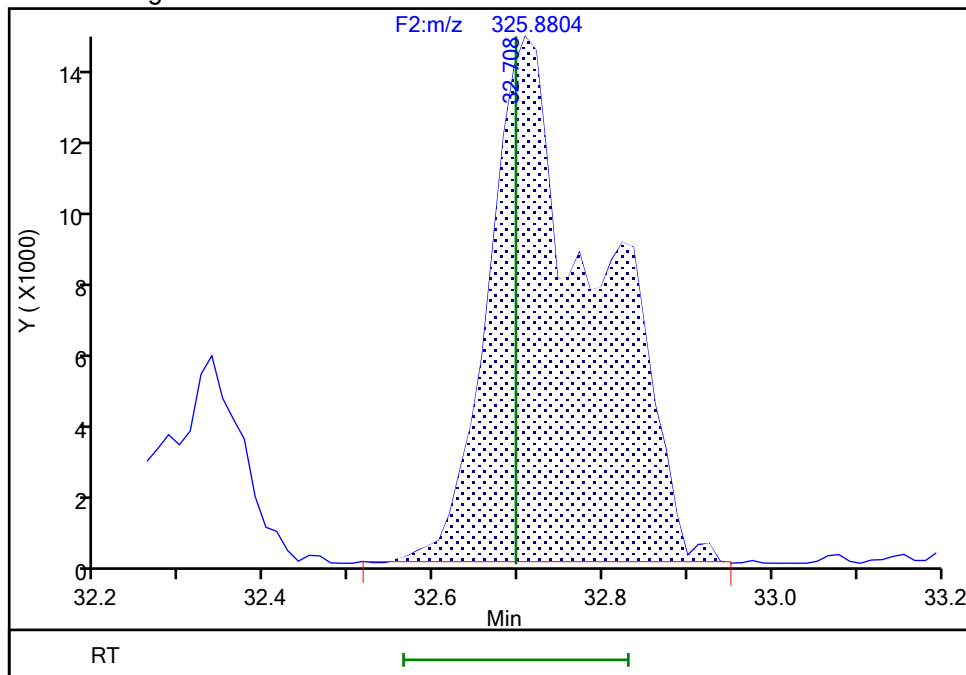
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Signal: 1

## Processing Integration Results



## Manual Integration Results



### Audit Reason: Incomplete Integration

## Eurofins Knoxville

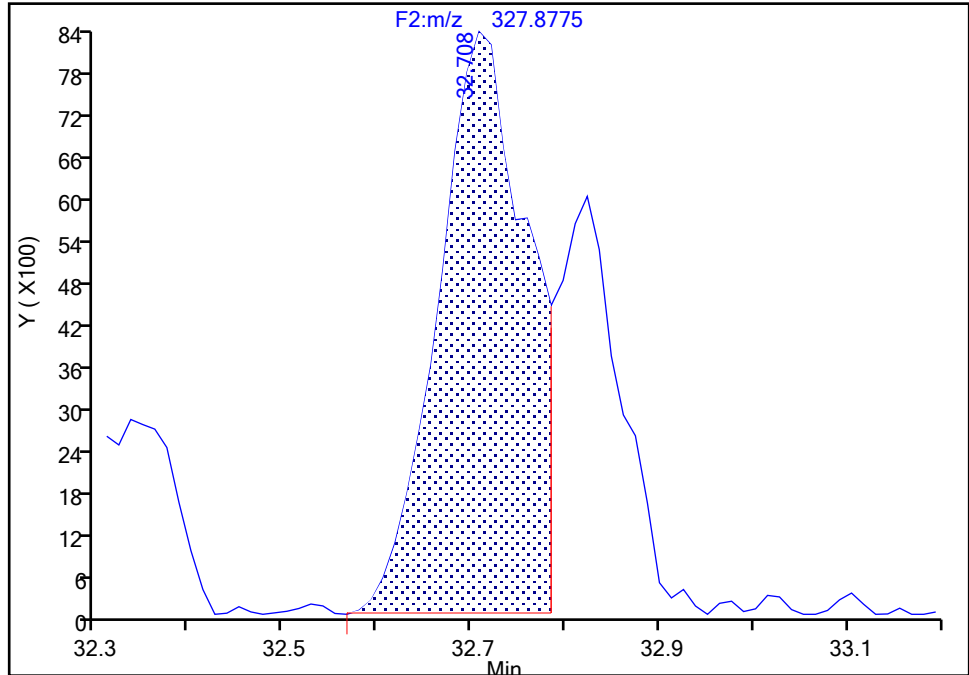
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

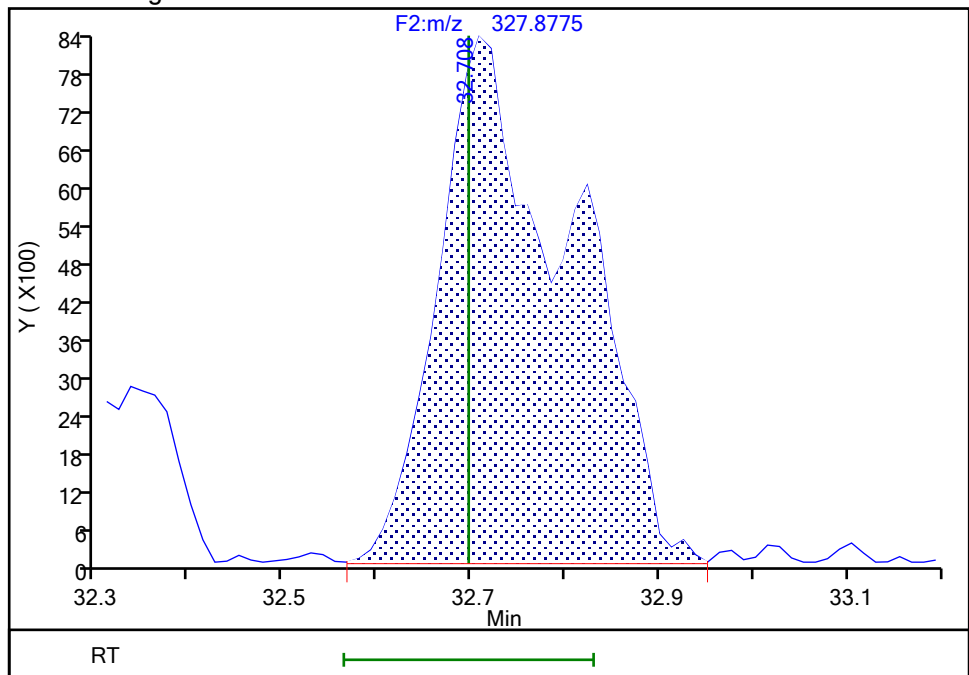
RT: 32.71  
Area: 54041  
Amount: 1.876000  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.71  
Area: 81652  
Amount: 2.908707  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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9/6/2024  
3:53:39 PM



## Eurofins Knoxville

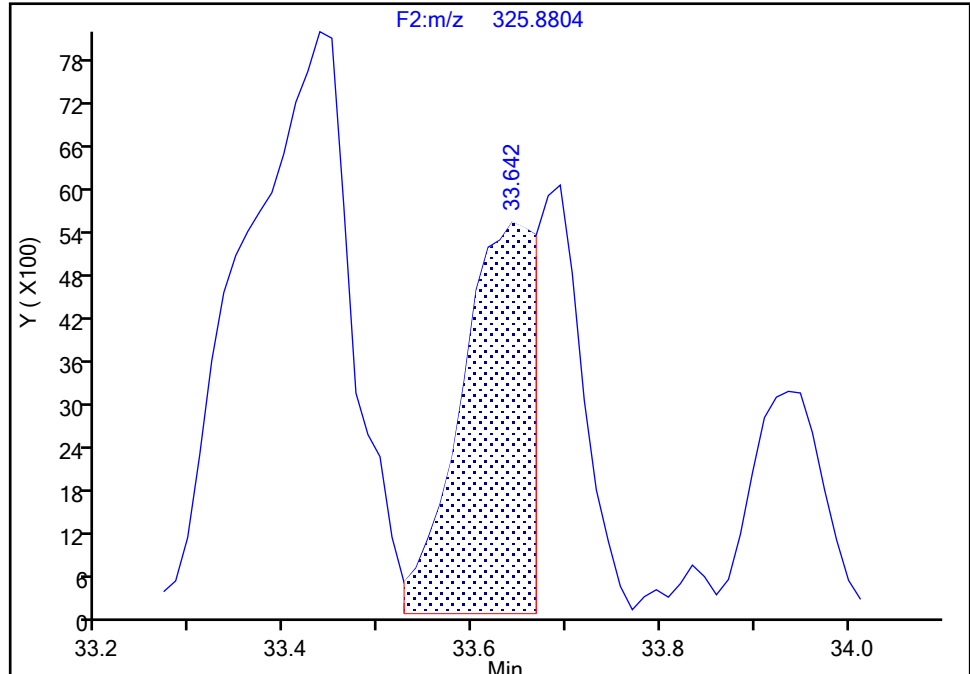
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-110/115, CAS: STL01826**

Signal: 1

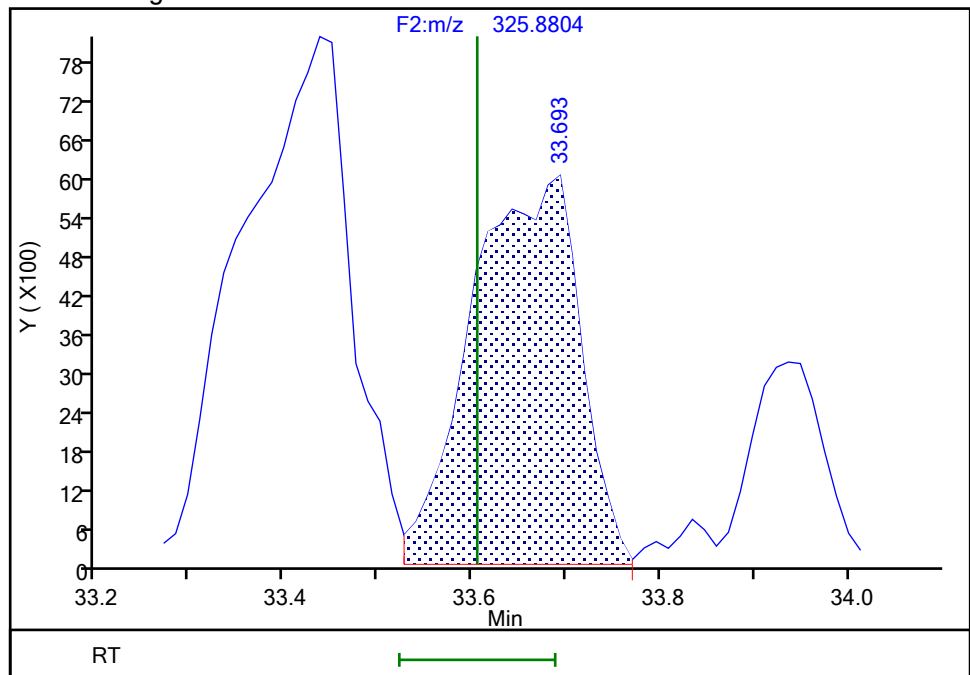
RT: 33.64  
Area: 28653  
Amount: 0.718077  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.69  
Area: 48048  
Amount: 1.008427  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:40:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

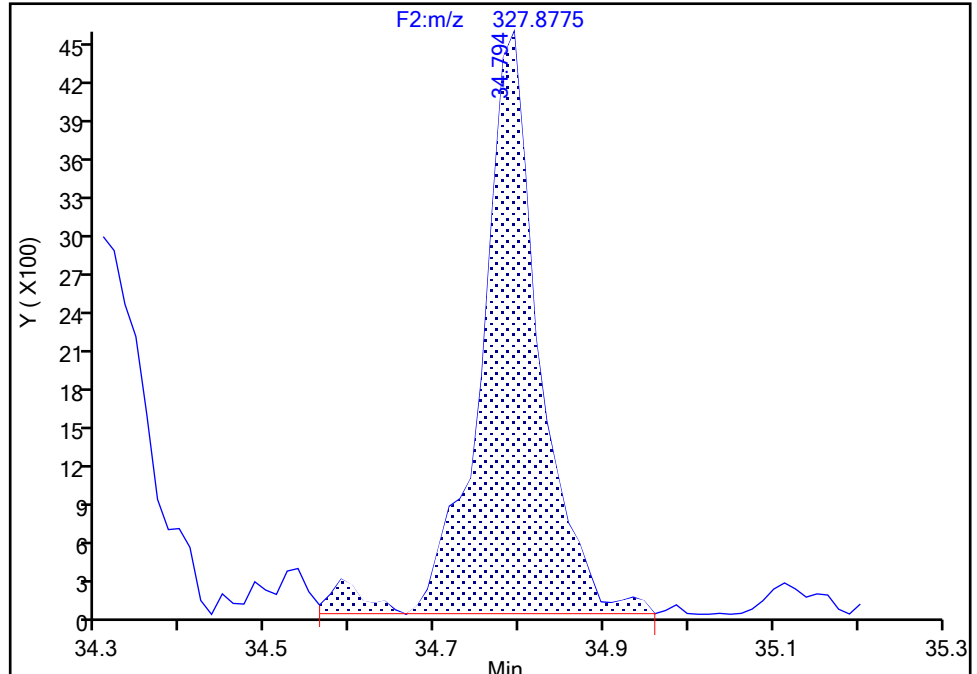
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-120, CAS: 68194-12-7

Signal: 2

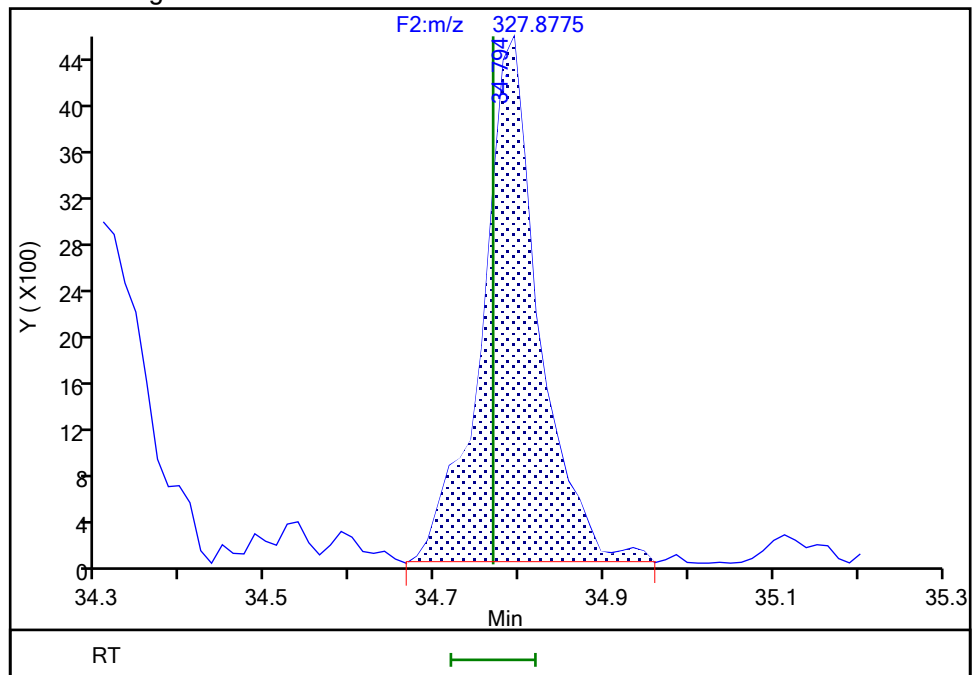
RT: 34.79  
Area: 21979  
Amount: 0.514083  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.79  
Area: 21230  
Amount: 0.518058  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:31:07 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

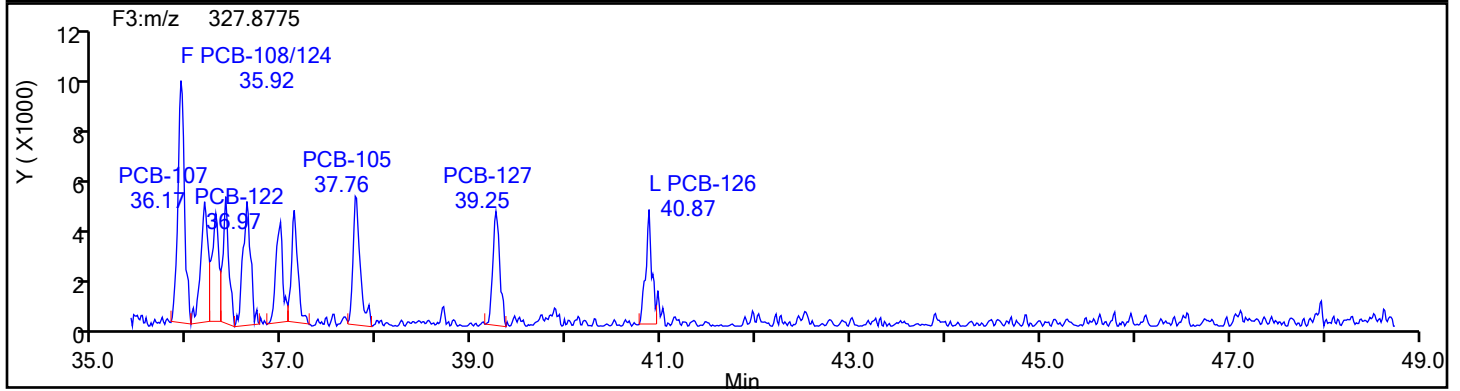
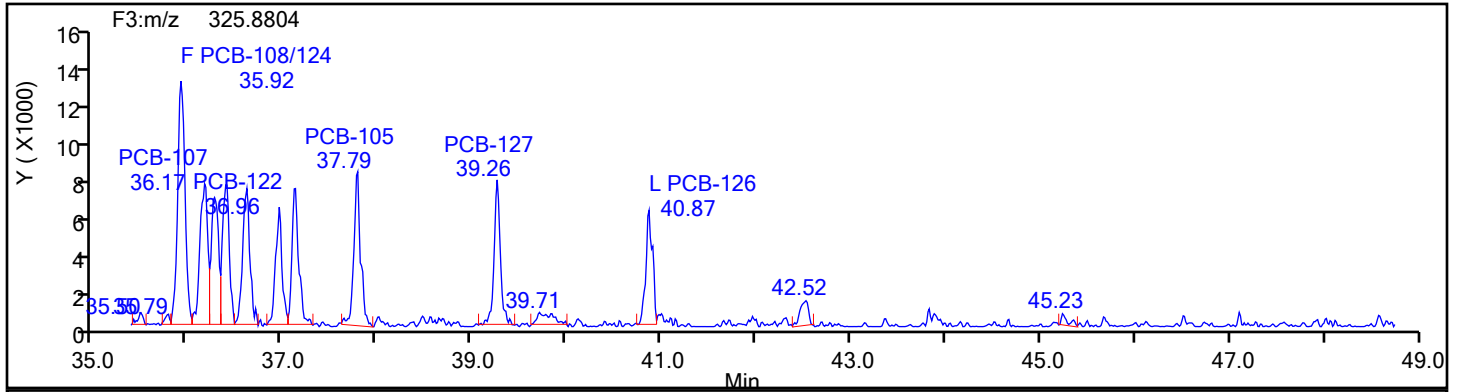
Worklist#: 87130

Sample Line#: 1

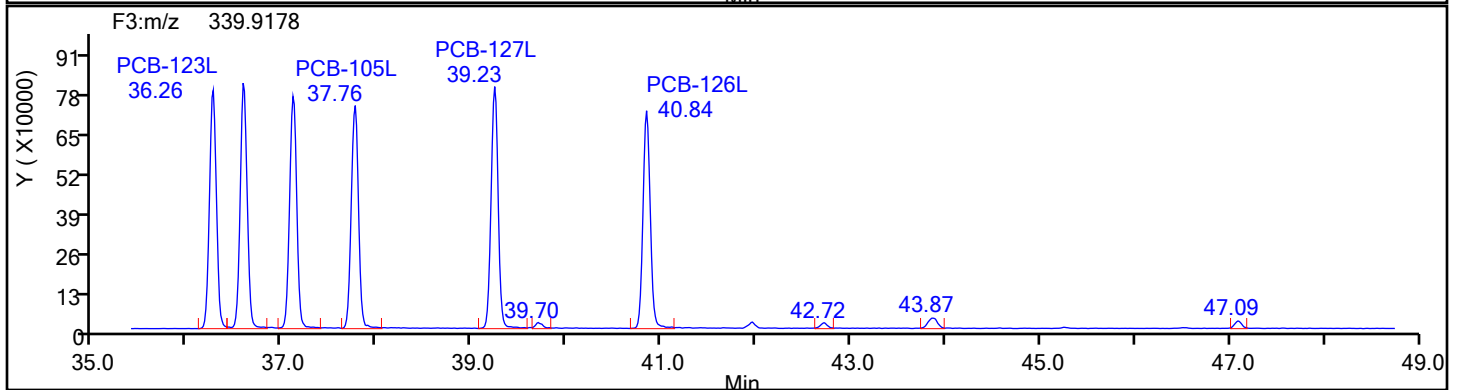
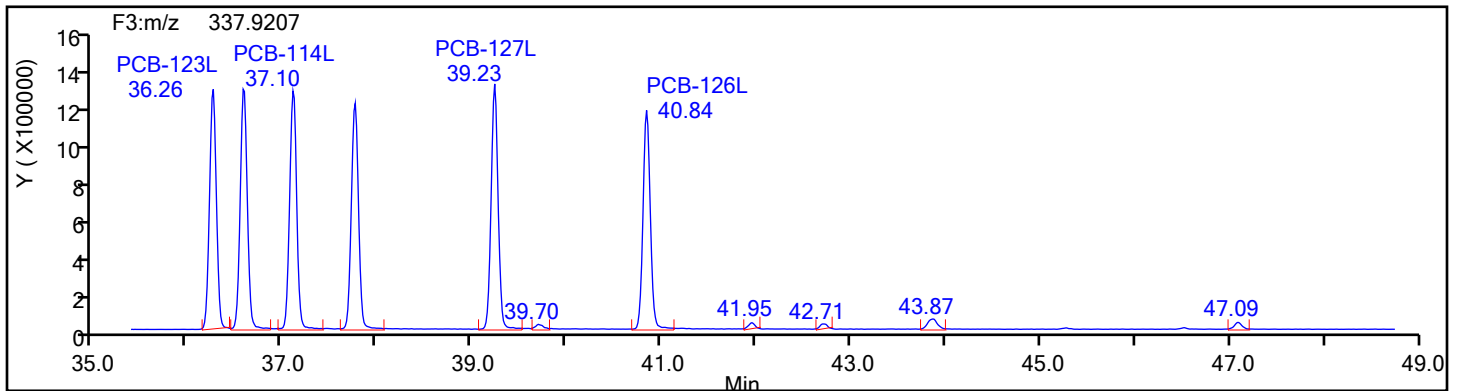
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

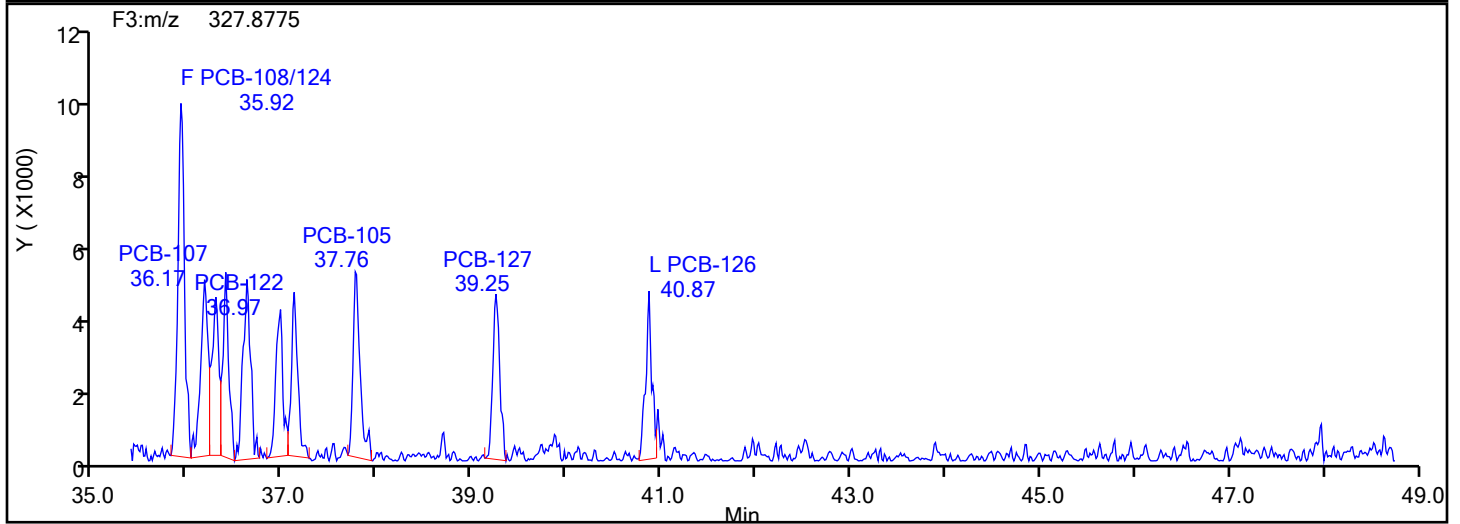
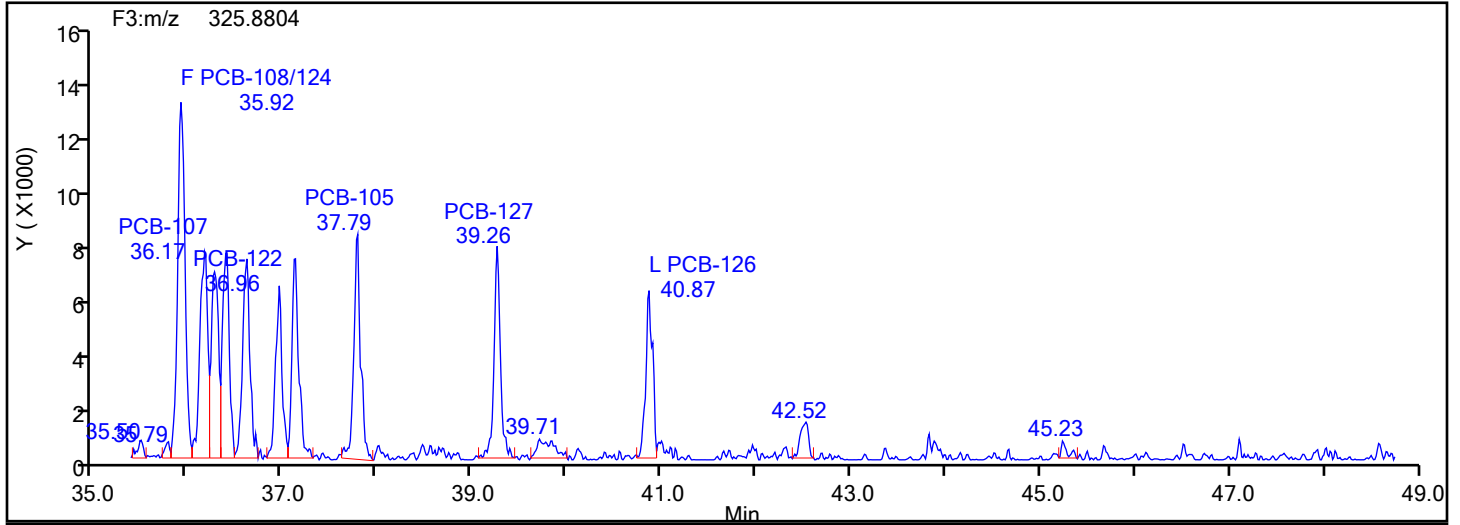
Worklist#: 87130

Sample Line#: 1

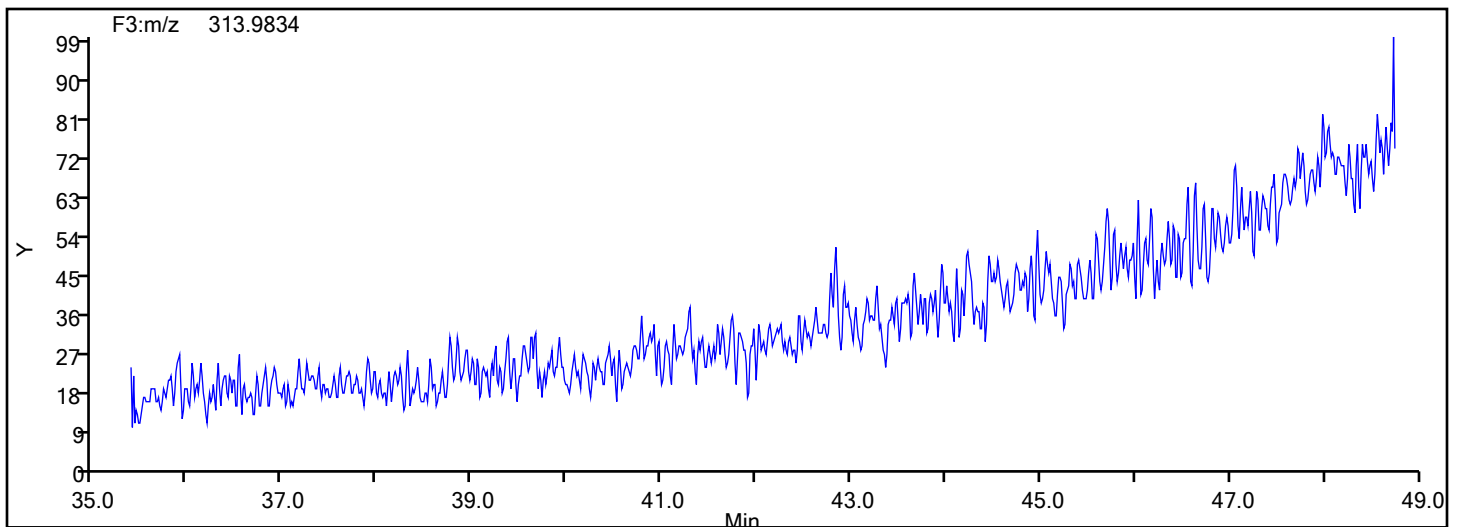
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



## PePCB F3 Lock Mass



## Eurofins Knoxville

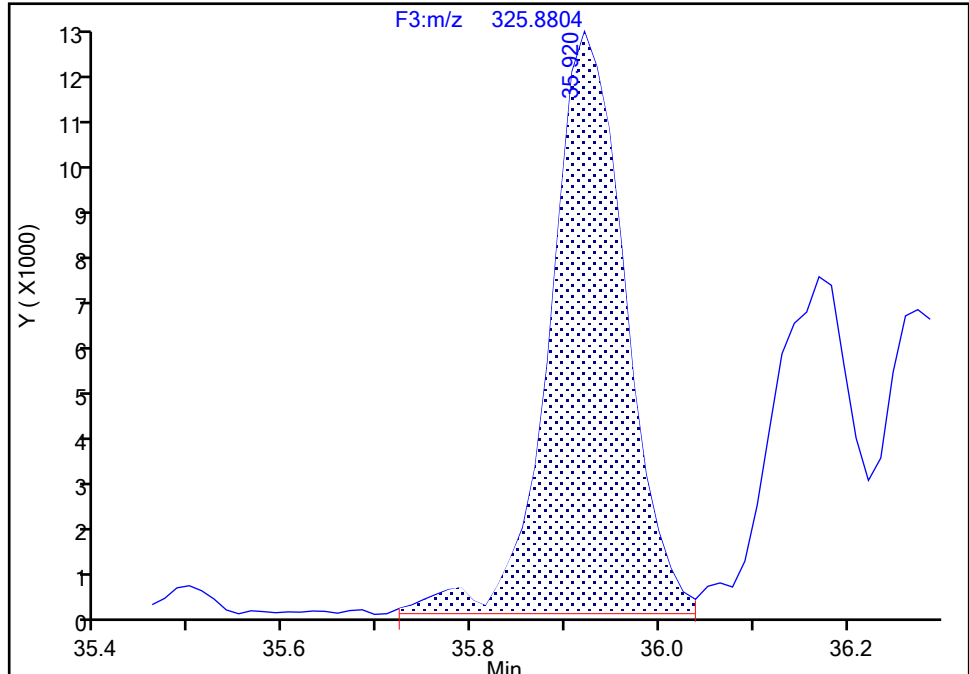
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-108/124, CAS: STL02294

Signal: 1

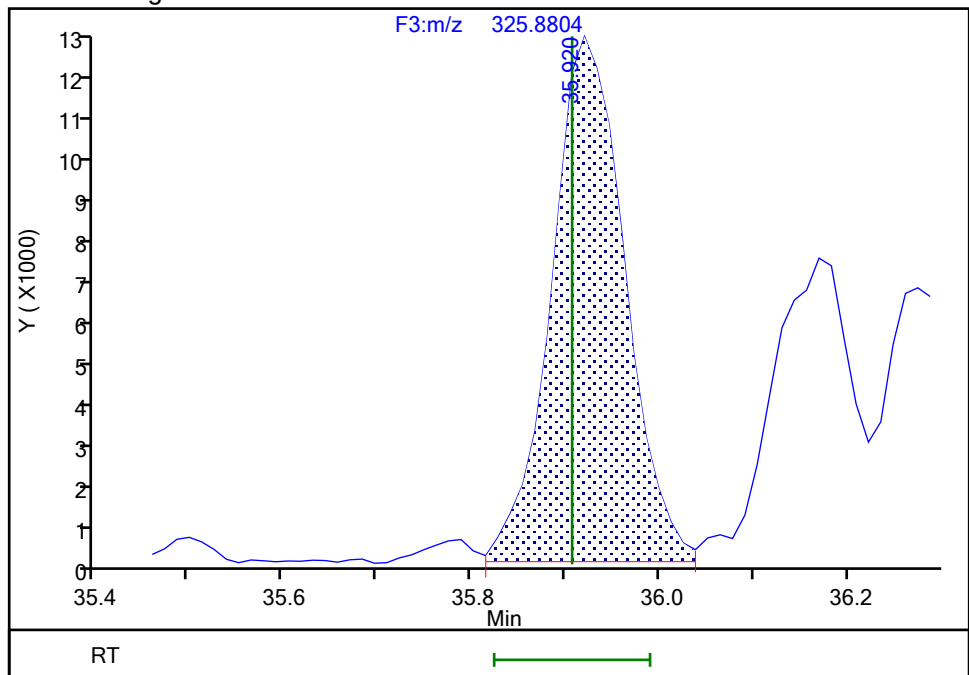
RT: 35.92  
Area: 71057  
Amount: 1.000854  
Amount Units: pg/ul

## Processing Integration Results



RT: 35.92  
Area: 69109  
Amount: 0.968568  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:31:14 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

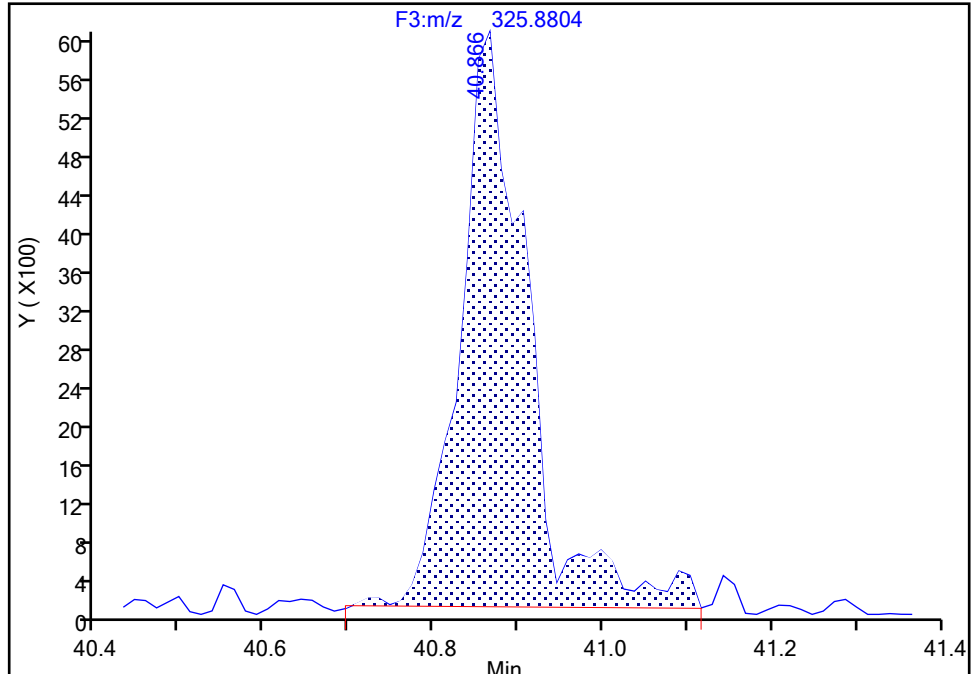
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-126, CAS: 57465-28-8**

Signal: 1

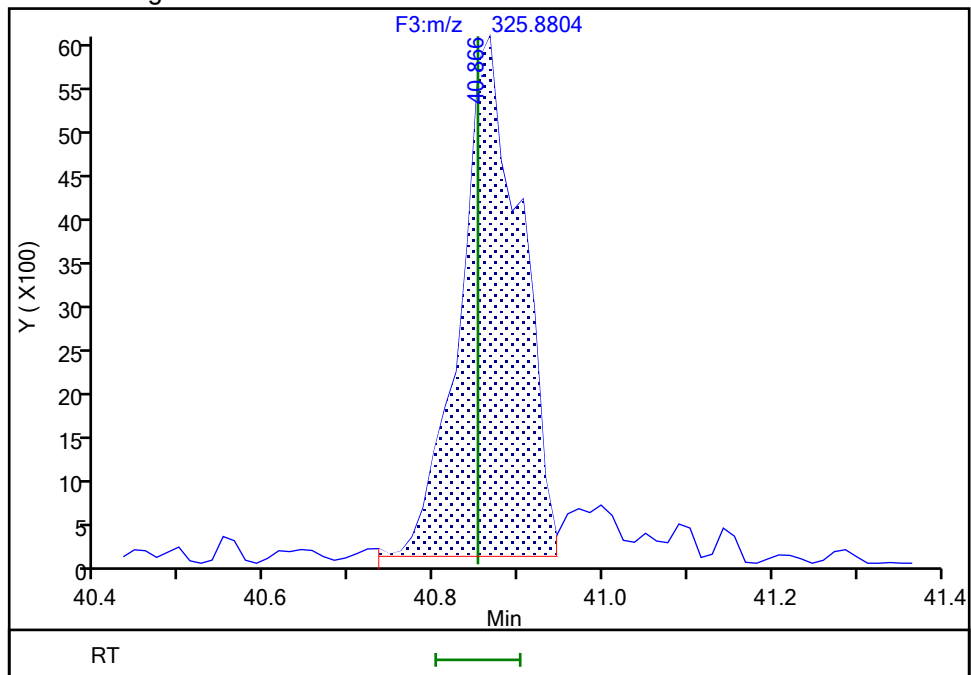
RT: 40.87  
Area: 33362  
Amount: 0.463722  
Amount Units: pg/ul

## Processing Integration Results



RT: 40.87  
Area: 29722  
Amount: 0.453490  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:41:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

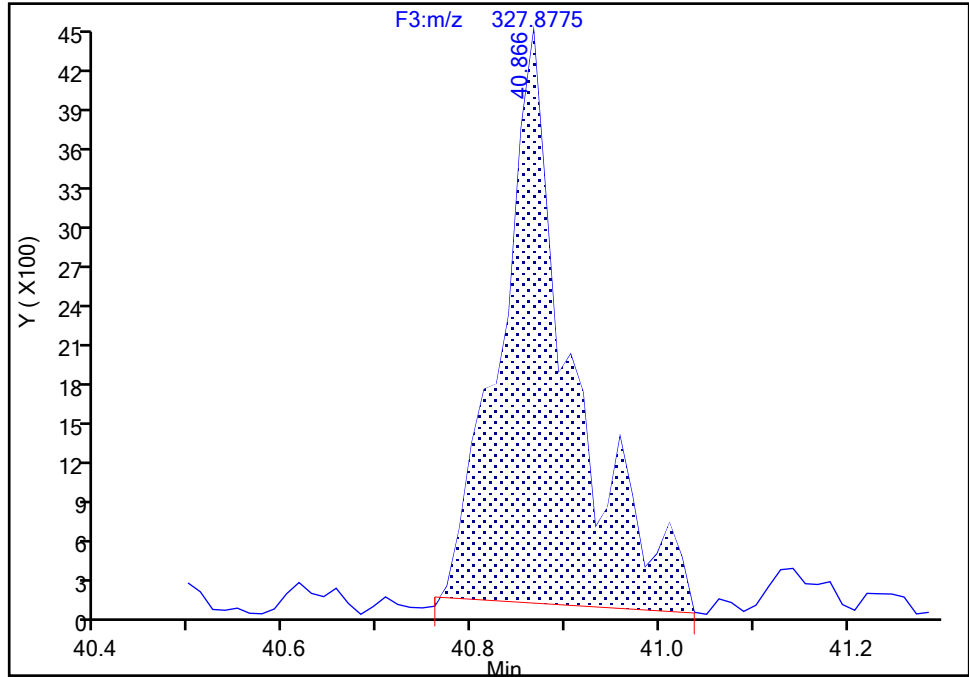
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-126, CAS: 57465-28-8**

Signal: 2

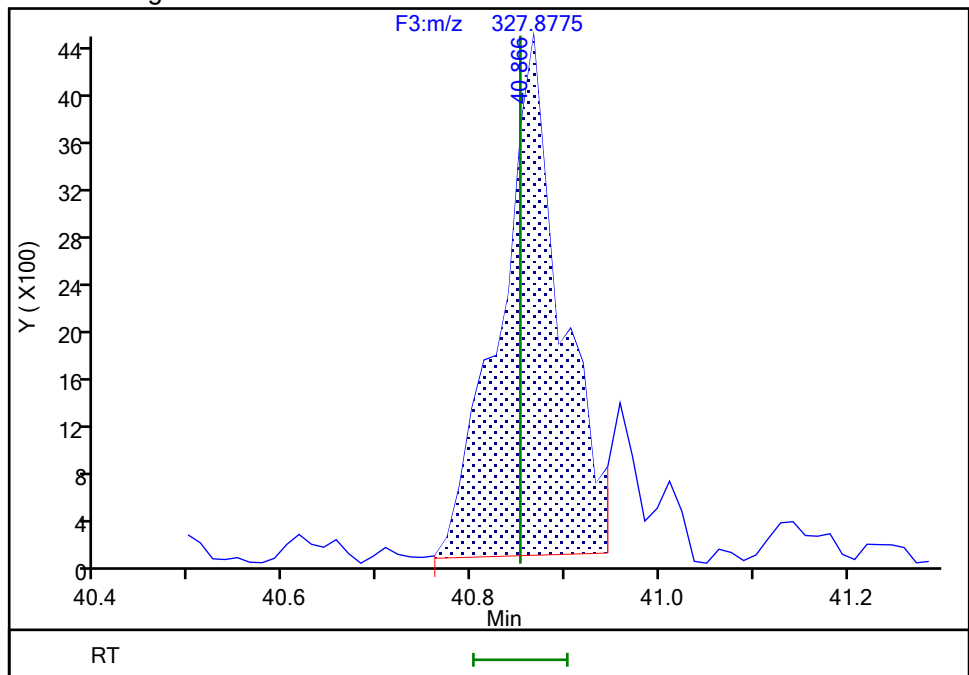
RT: 40.87  
Area: 22952  
Amount: 0.463722  
Amount Units: pg/ul

## Processing Integration Results



RT: 40.87  
Area: 19848  
Amount: 0.453490  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:41:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

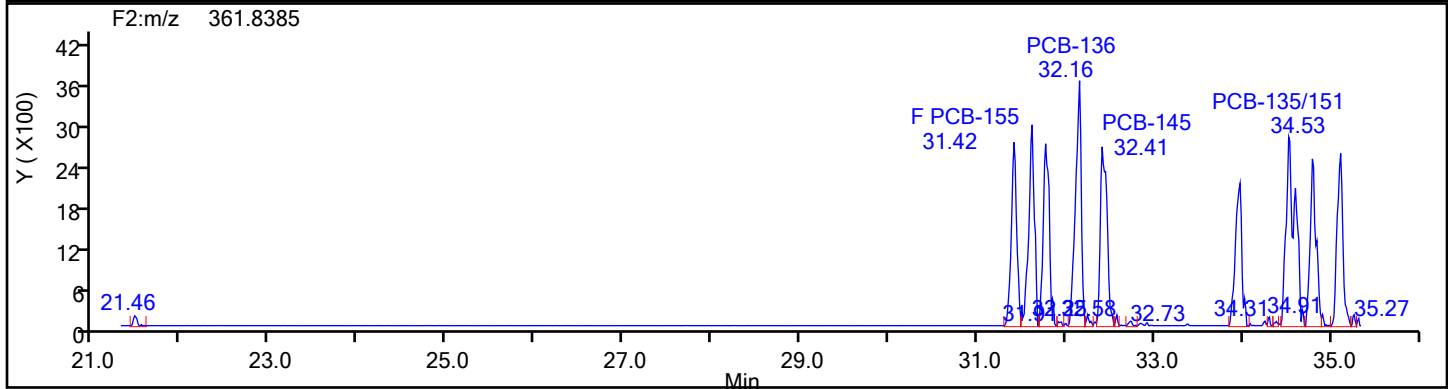
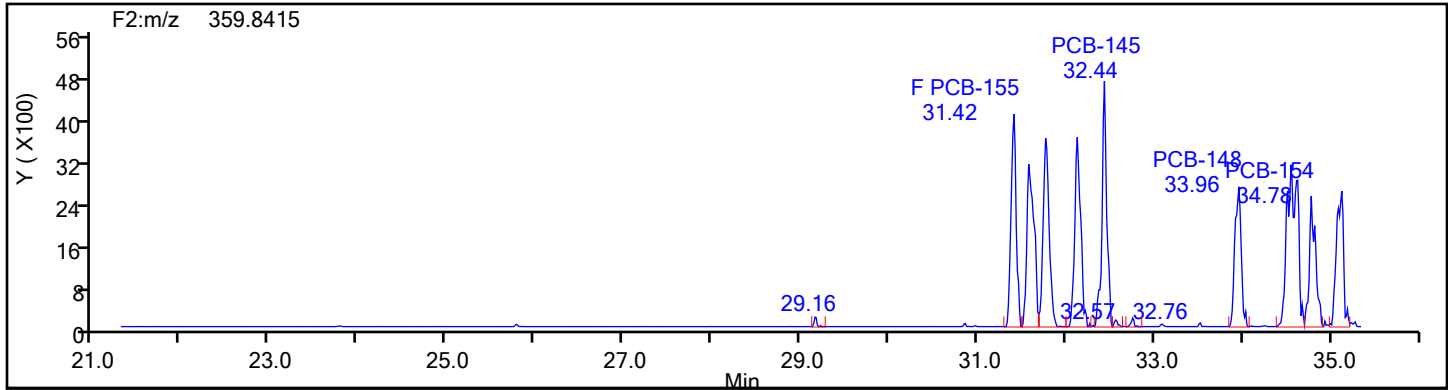
Worklist#: 87130

Sample Line#: 1

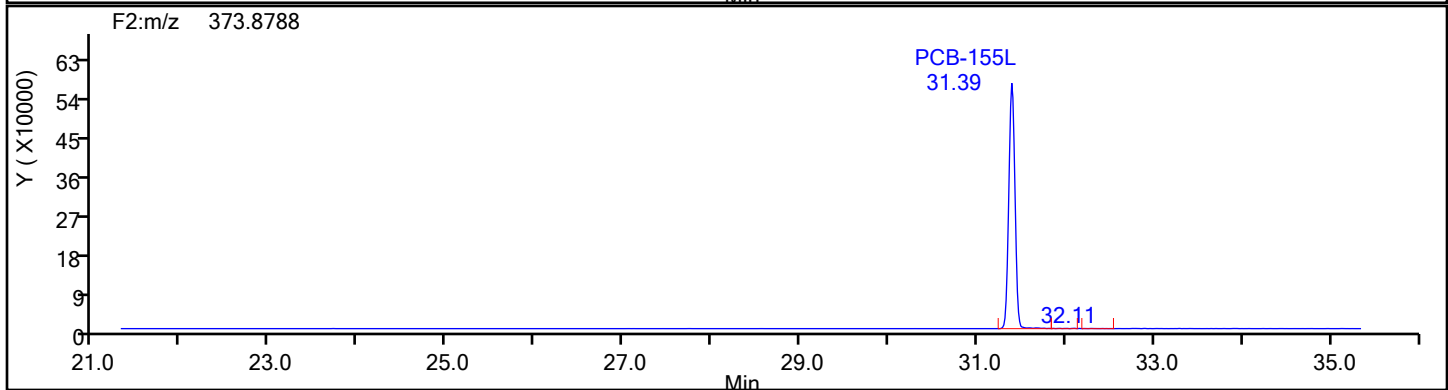
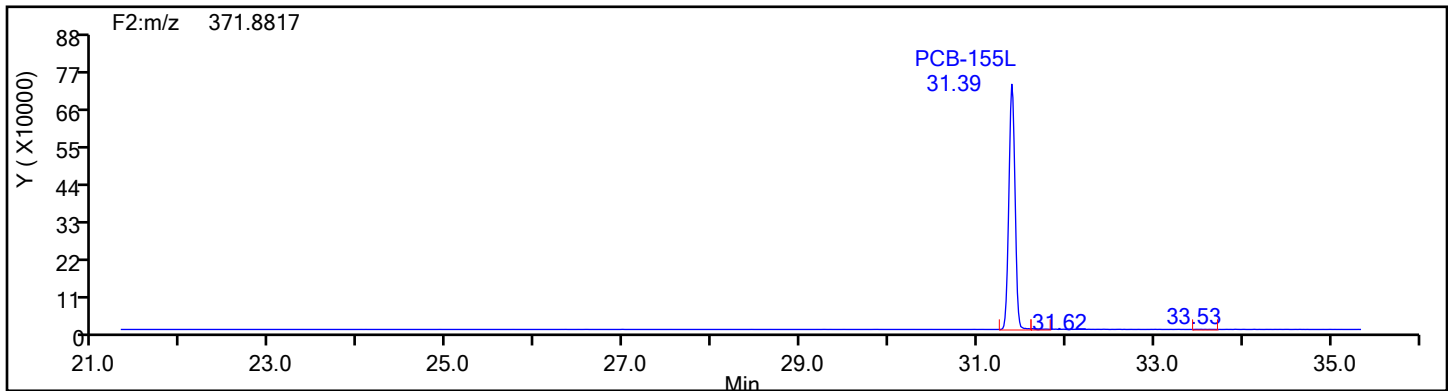
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

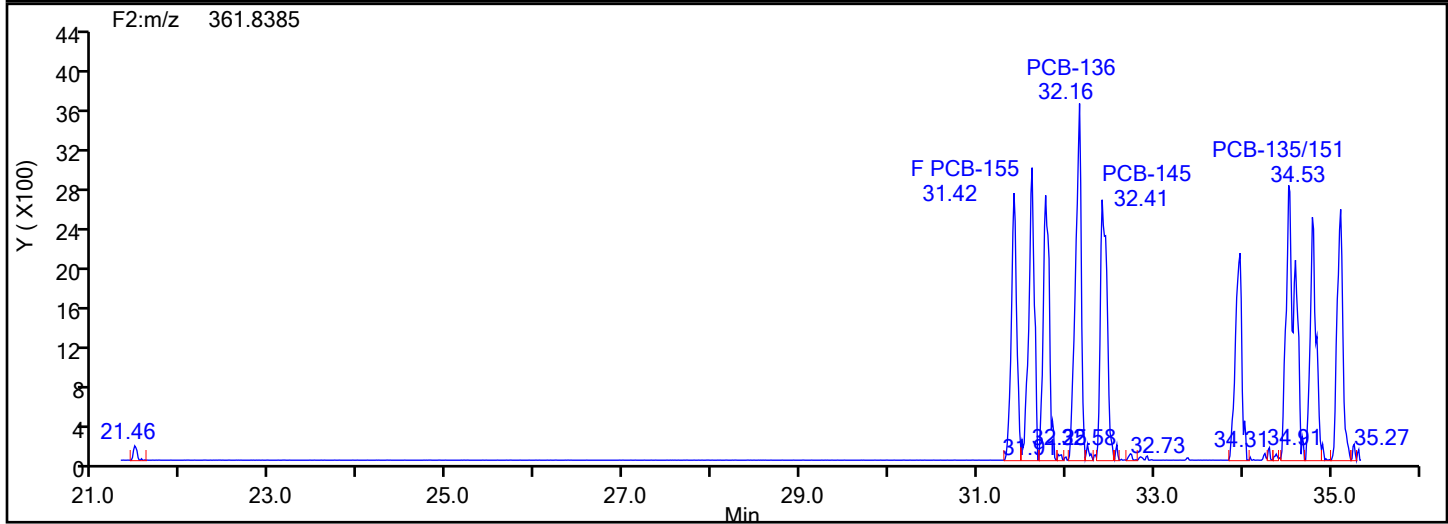
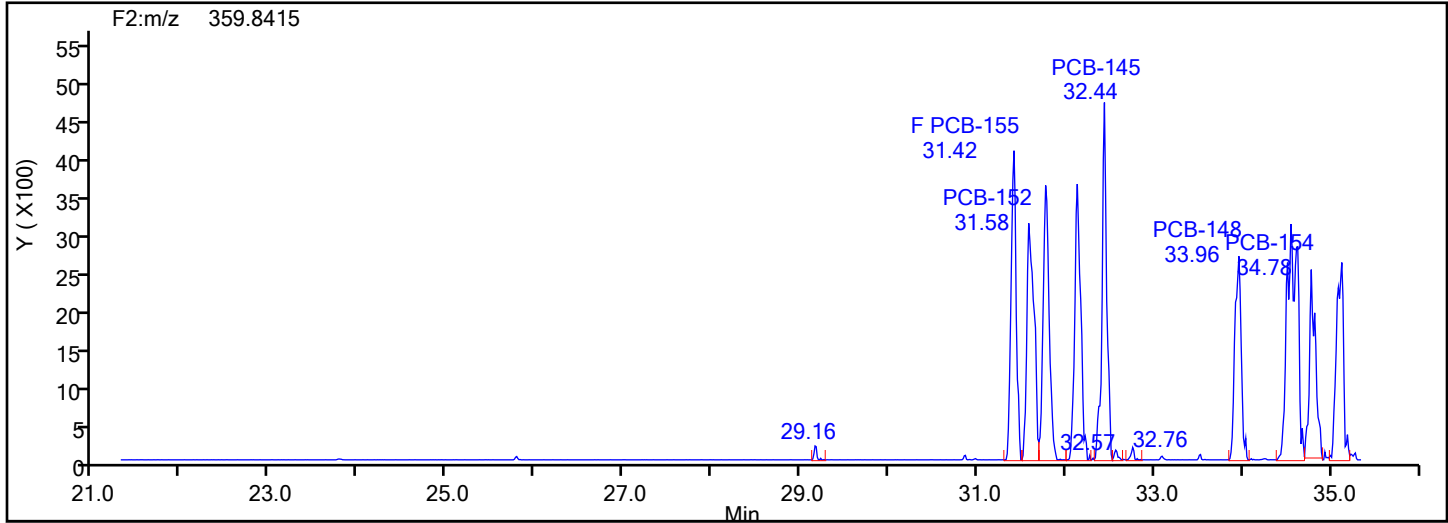
Worklist#: 87130

Sample Line#: 1

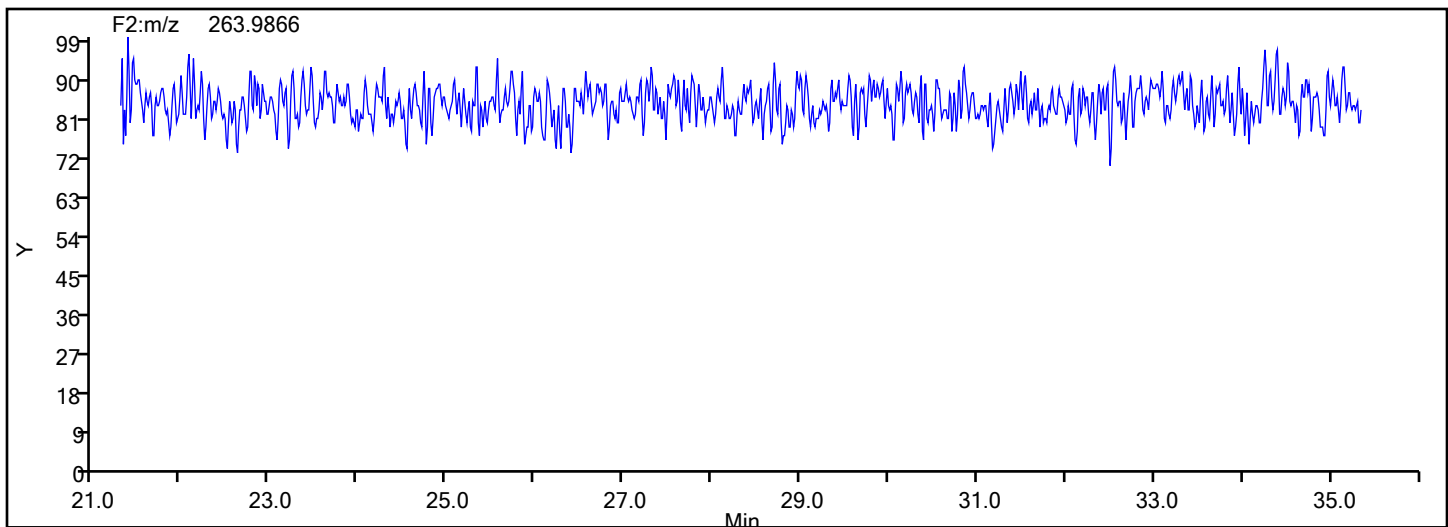
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

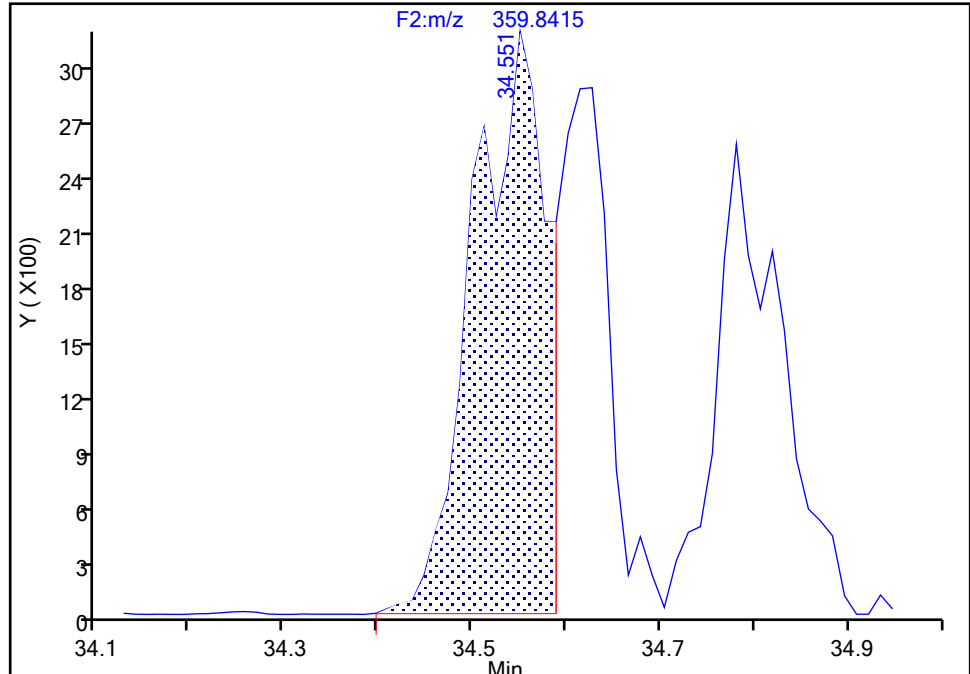
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 1

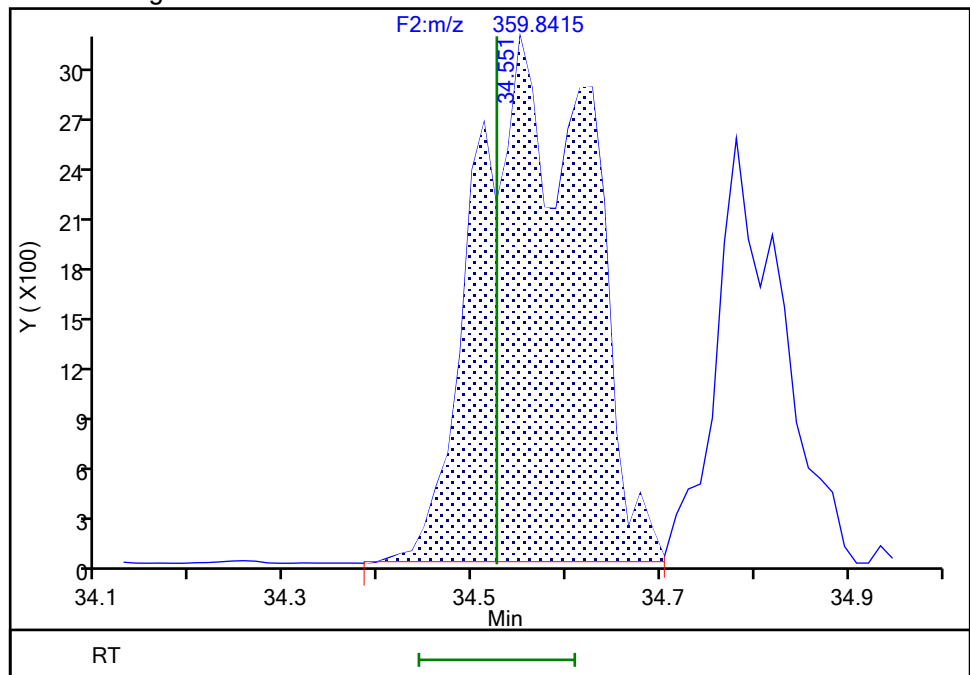
RT: 34.55  
Area: 16255  
Amount: 0.654016  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.55  
Area: 26170  
Amount: 1.004069  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:42:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

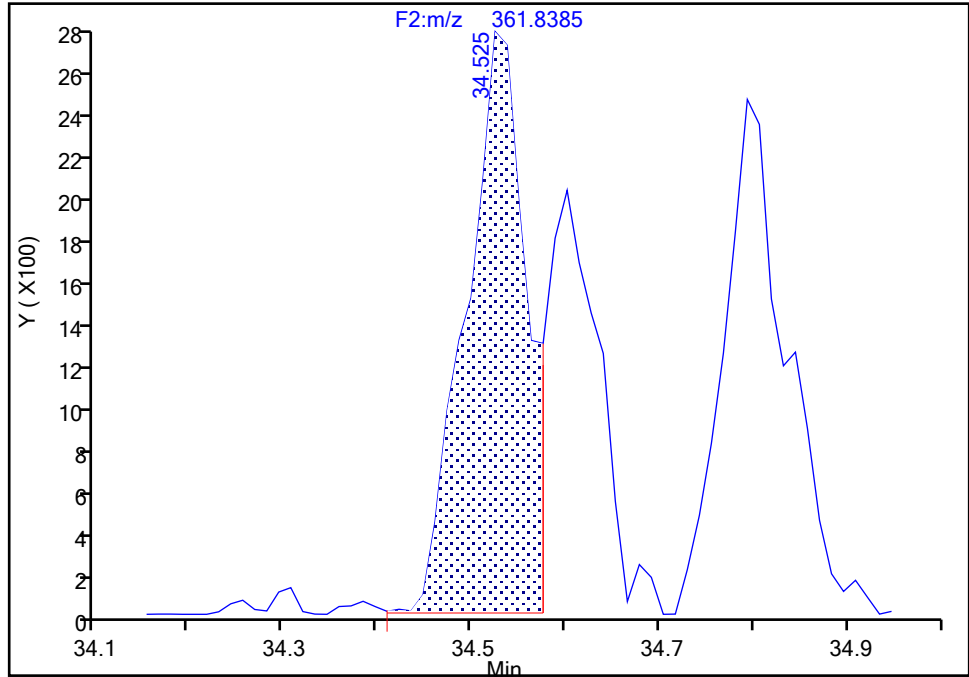
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 2

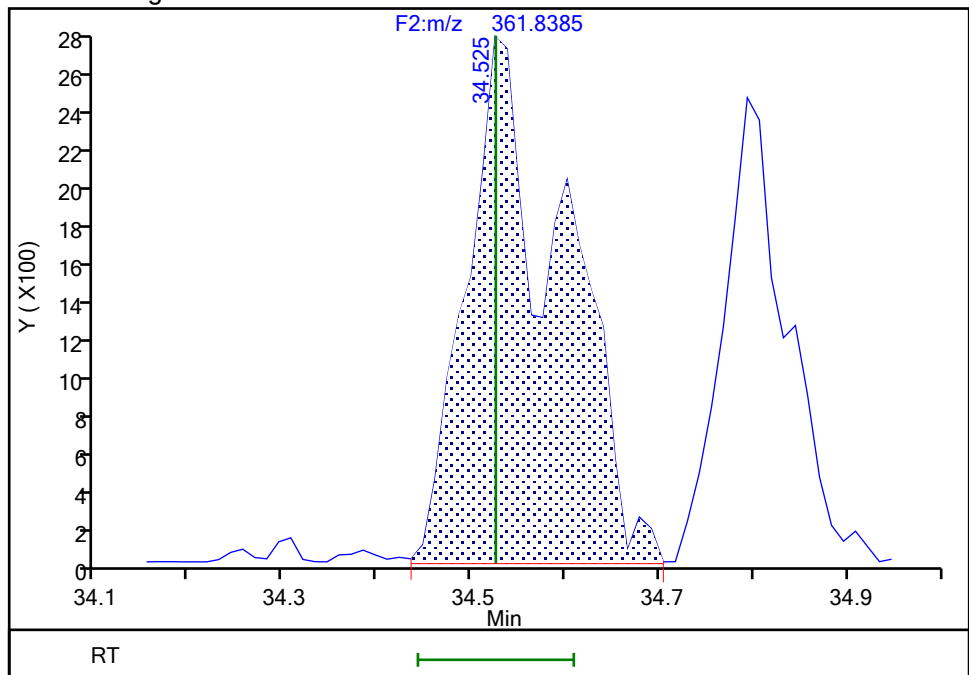
RT: 34.53  
Area: 12145  
Amount: 0.654016  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.53  
Area: 19780  
Amount: 1.004069  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:42:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

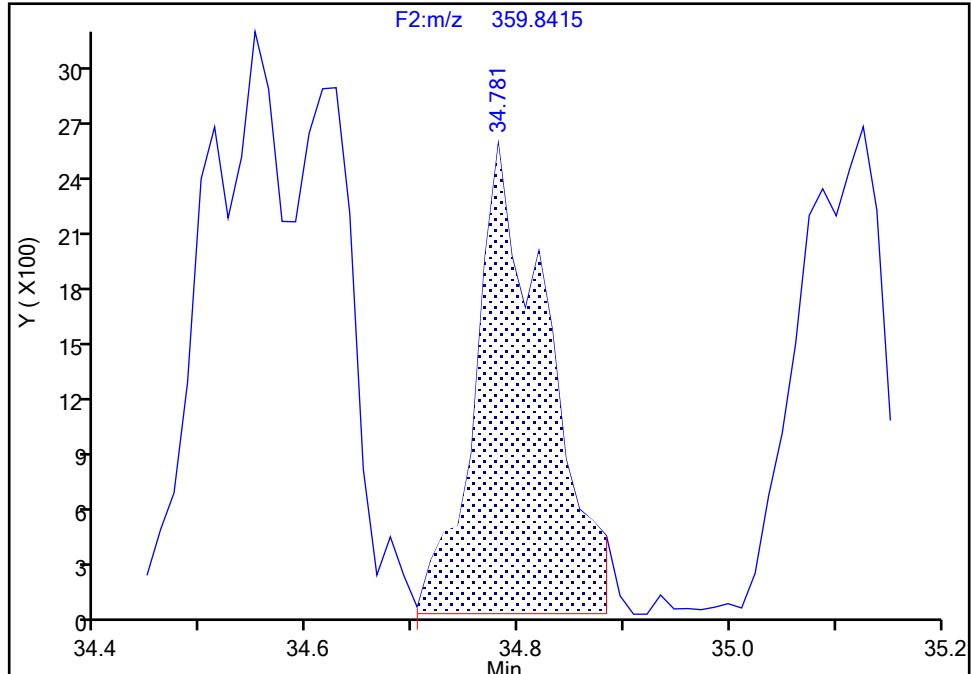
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-154, CAS: 60145-22-4

Signal: 1

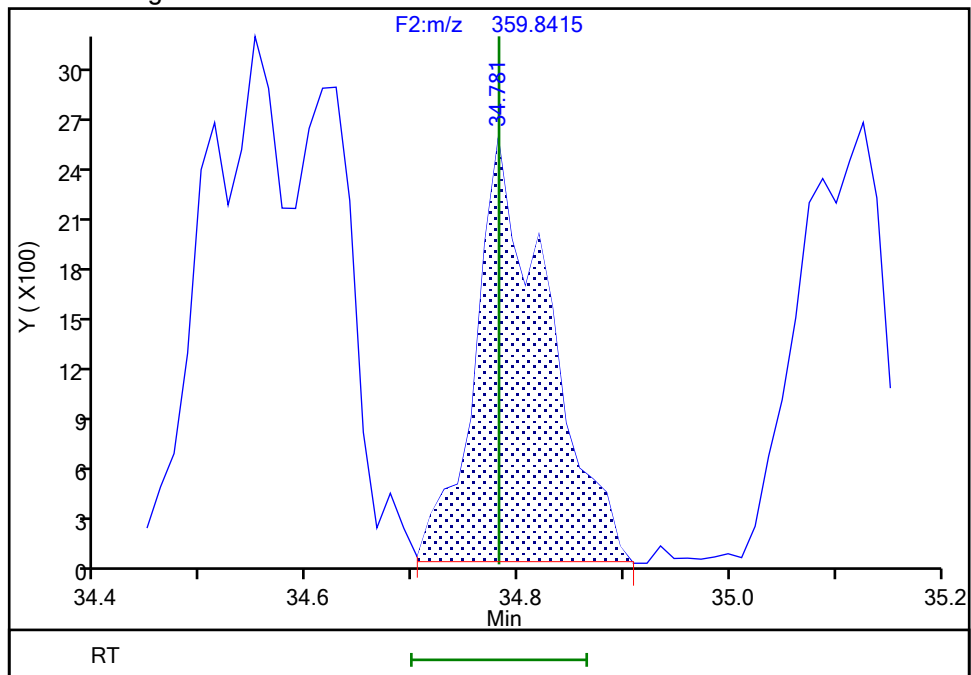
RT: 34.78  
Area: 11920  
Amount: 0.454148  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.78  
Area: 11960  
Amount: 0.455849  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:31:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

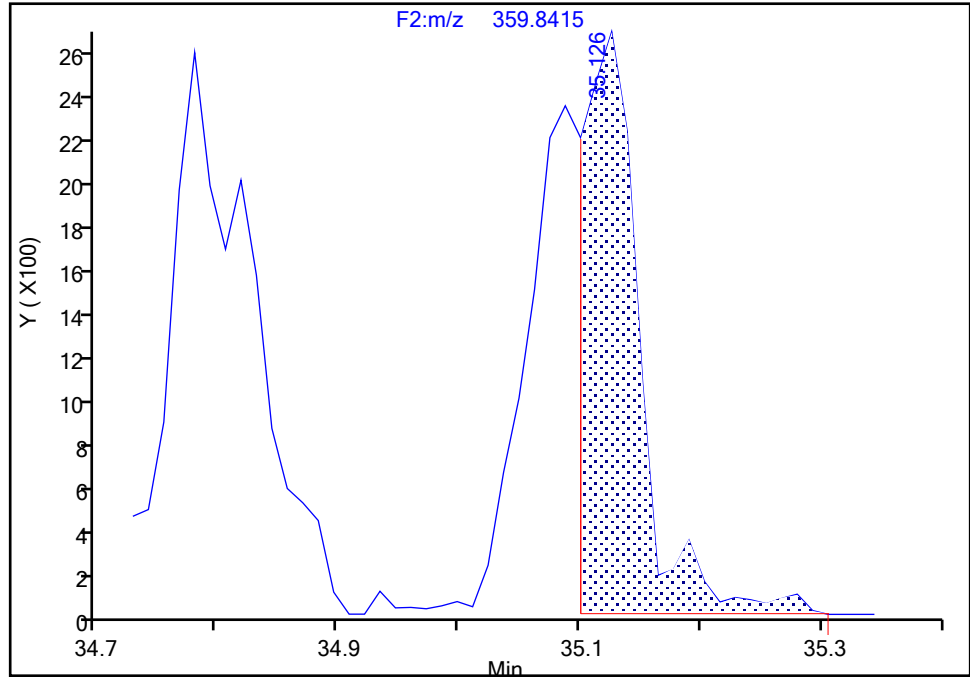
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Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-144, CAS: 68194-14-9**

Signal: 1

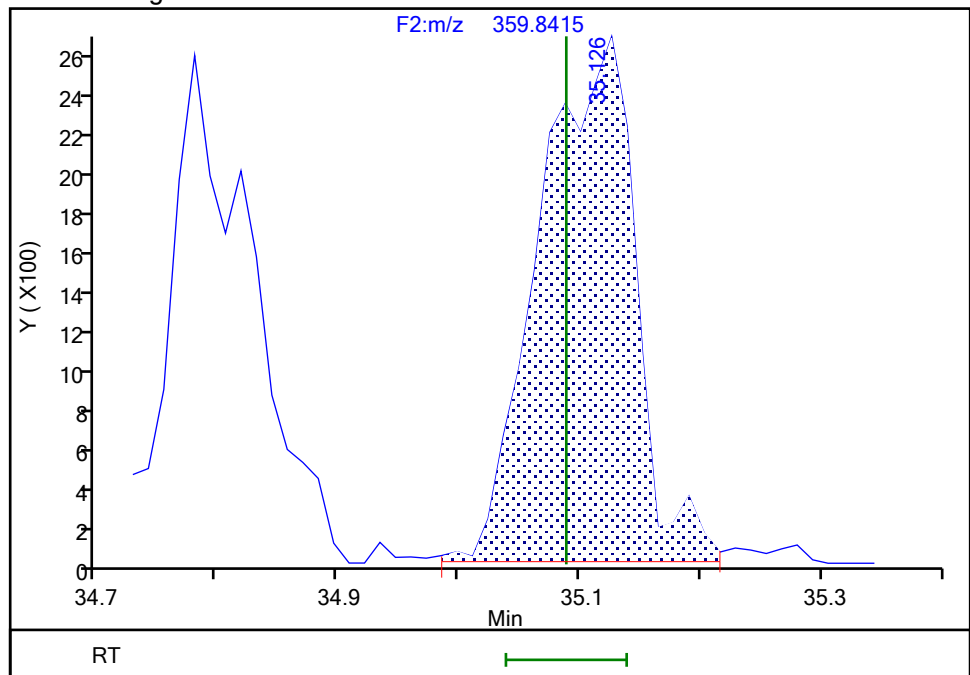
RT: 35.13  
Area: 8058  
Amount: 0.432703  
Amount Units: pg/ul

## Processing Integration Results



RT: 35.13  
Area: 14483  
Amount: 0.525688  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:42:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

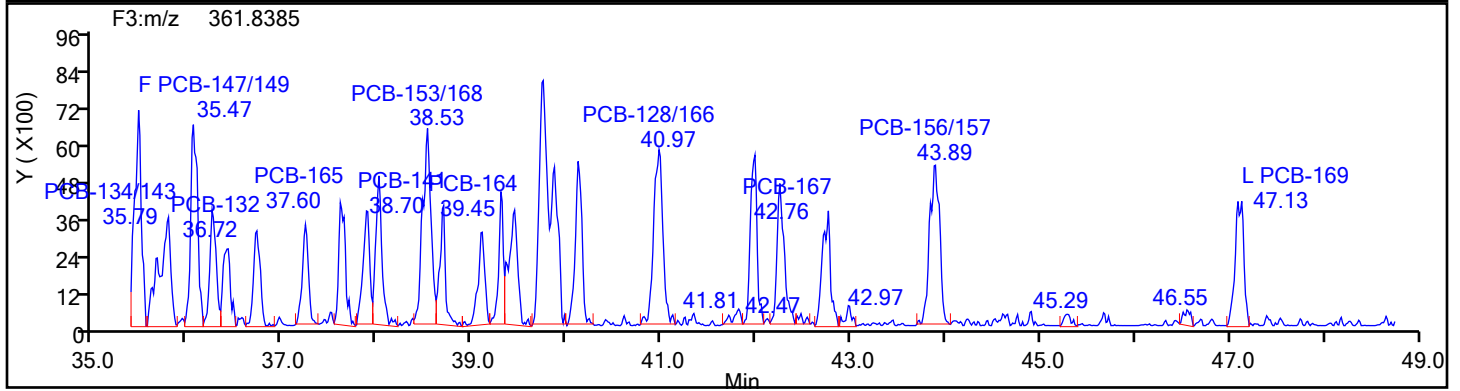
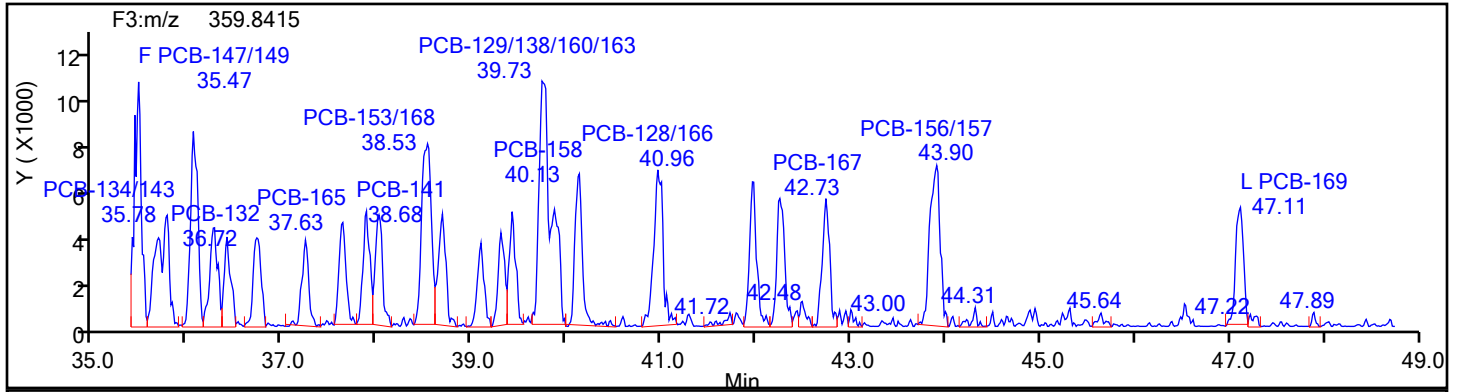
Worklist#: 87130

Sample Line#: 1

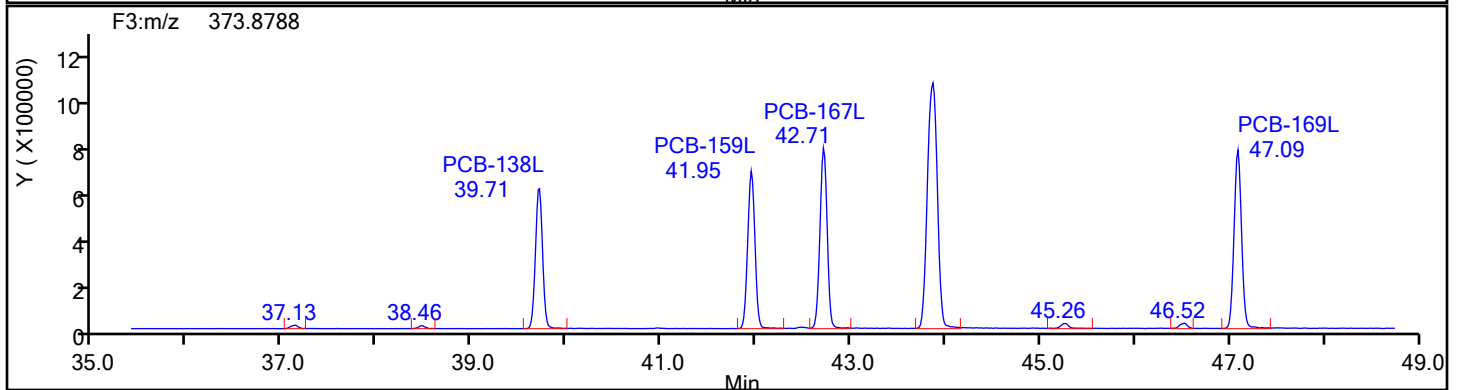
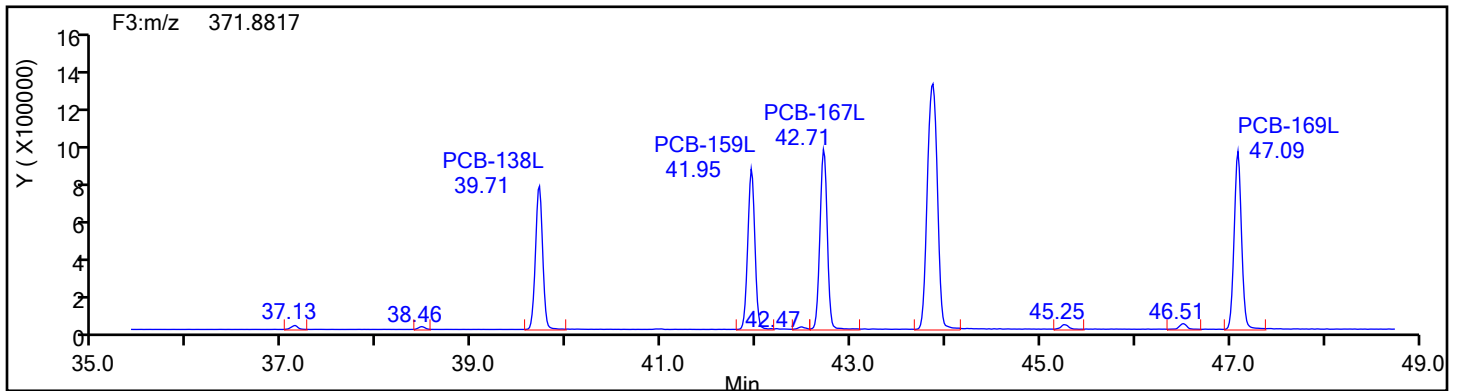
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

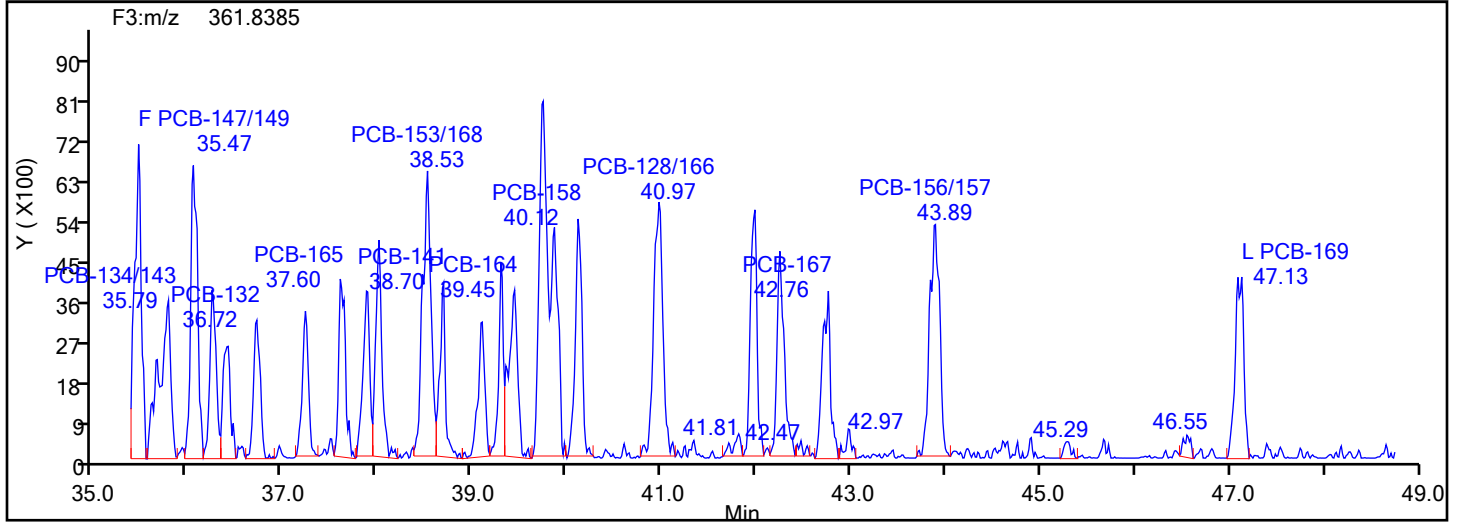
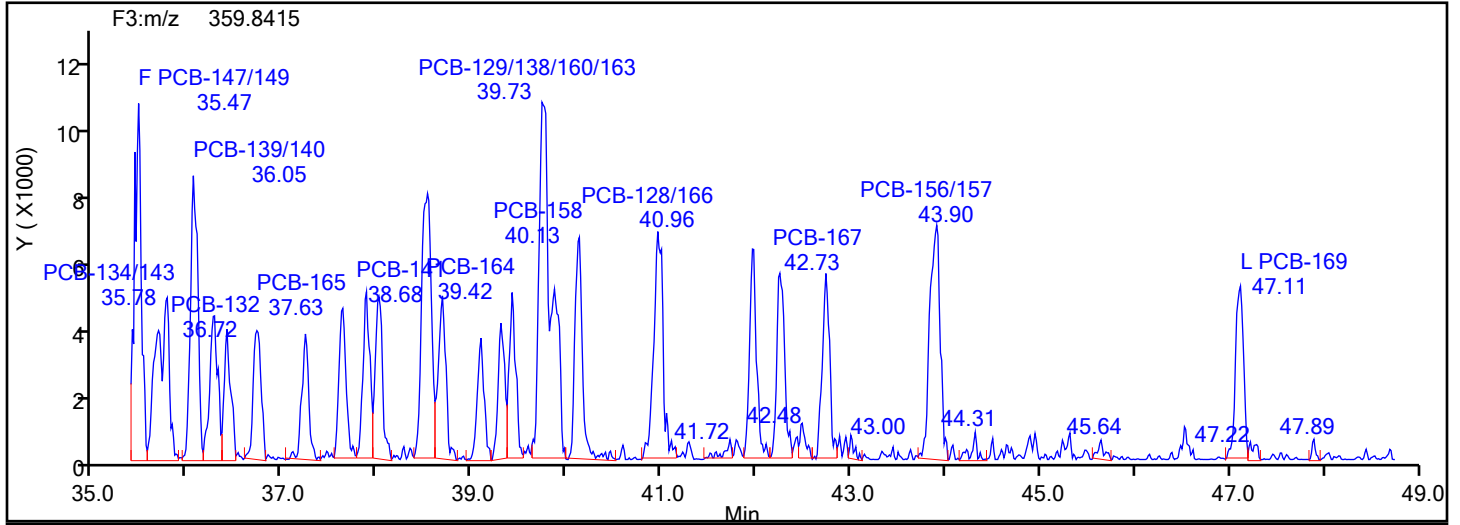
Worklist#: 87130

Sample Line#: 1

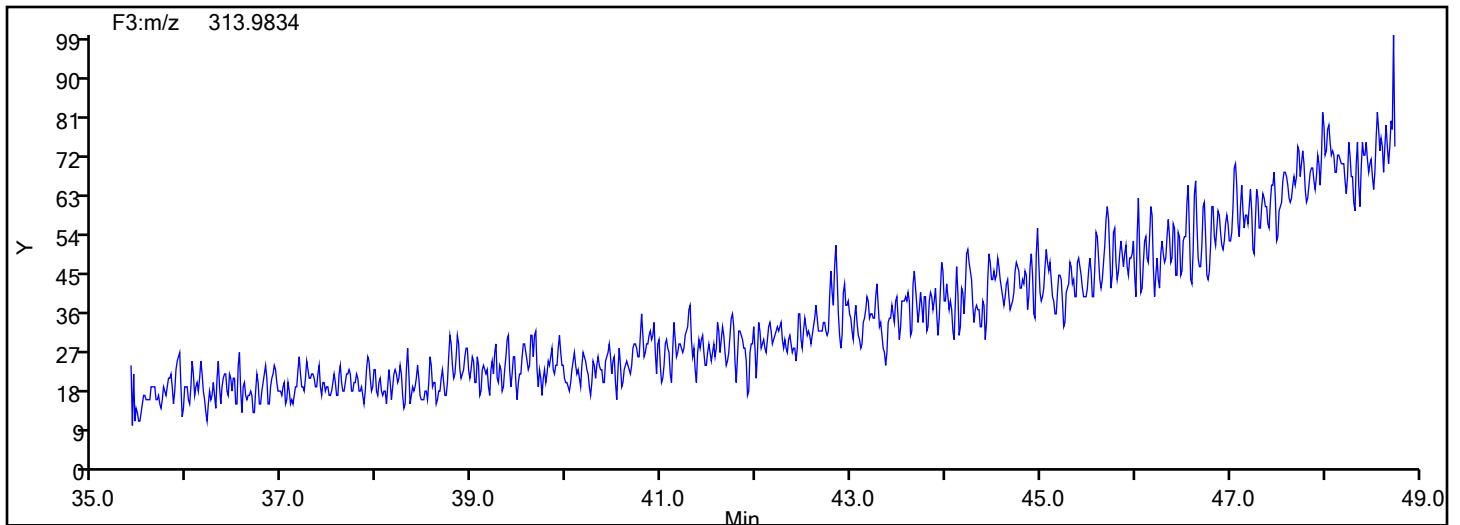
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

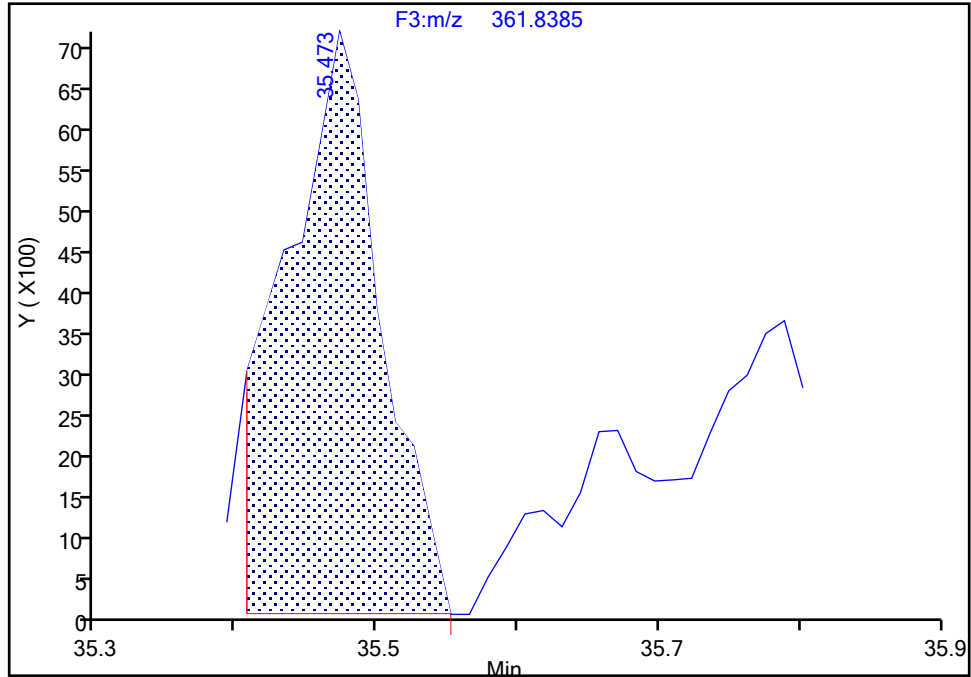
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-147/149, CAS: STL01821

Signal: 2

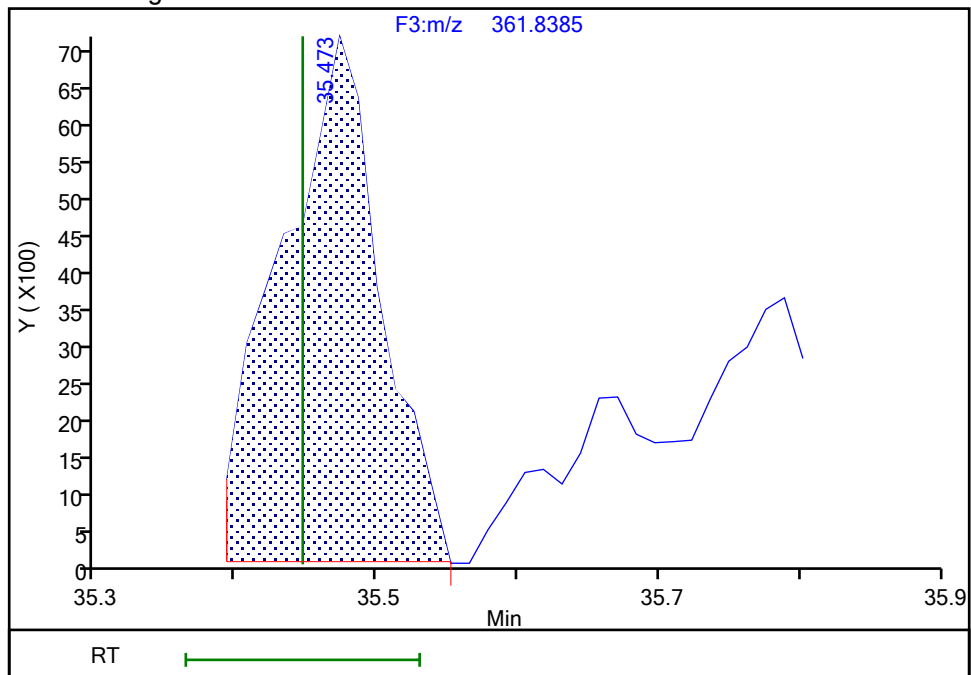
RT: 35.47  
Area: 33615  
Amount: 1.063615  
Amount Units: pg/ul

## Processing Integration Results



RT: 35.47  
Area: 35175  
Amount: 1.079132  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:32:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d		
Injection Date:	31-May-2024 14:36:00	Instrument ID:	D2D
Lims ID:	IC L1		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

```

ALS Bottle#:      0          Worklist Smp#:      1
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F3(35.64 :49.10 )

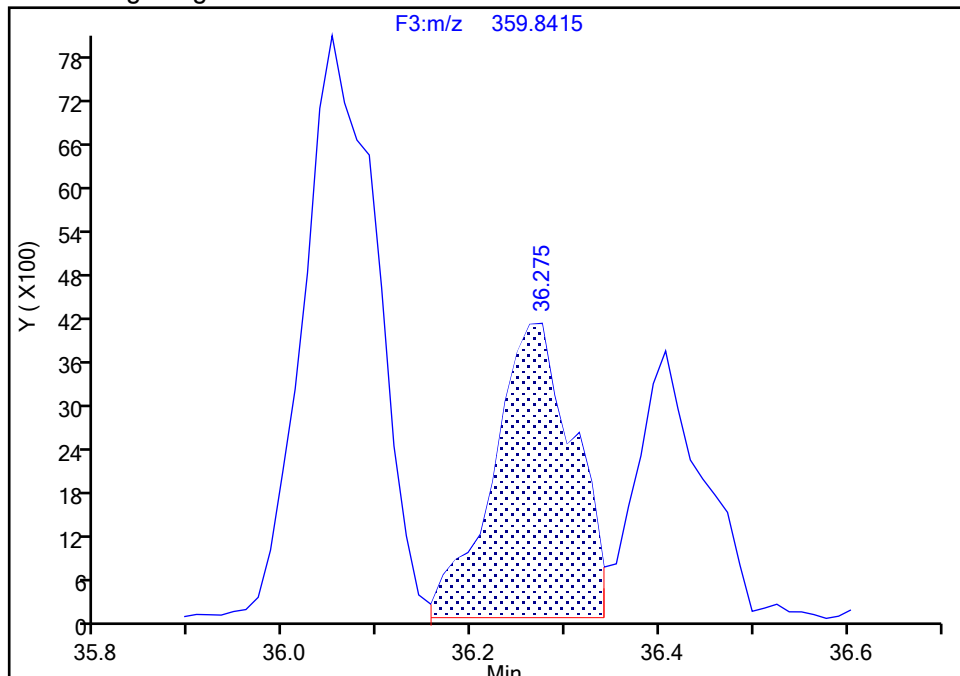
```

PCB-131, CAS: 61798-70-7

Signal: 1

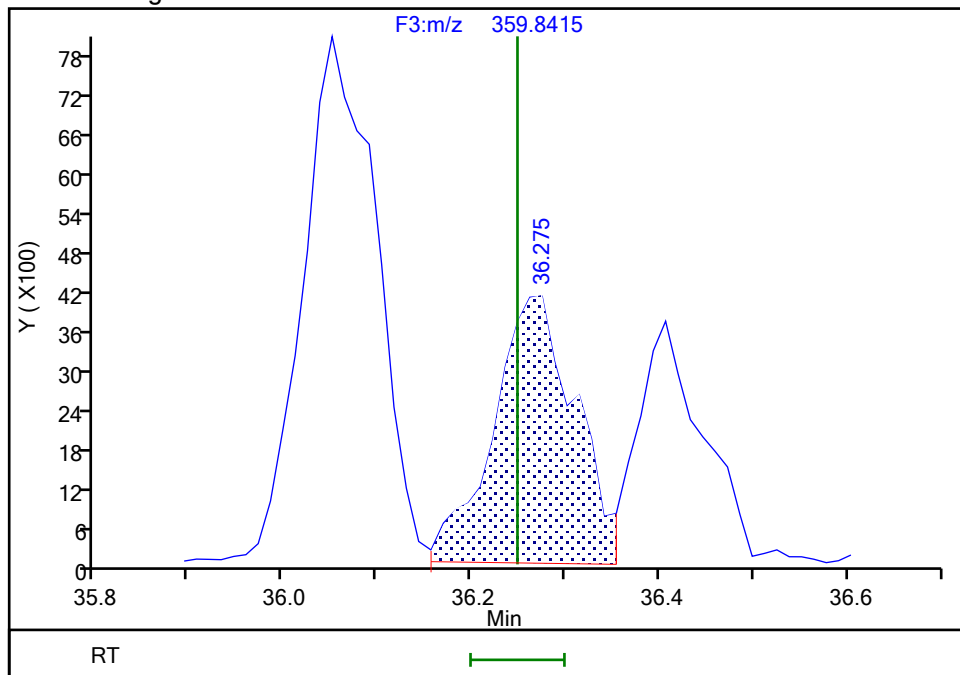
RT: 36.28  
Area: 23949  
Amount: 0.603994  
Amount Units: pg/ul

## Processing Integration Results



RT: 36.28  
Area: 24575  
Amount: 0.639629  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:28:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d		
Injection Date:	31-May-2024 14:36:00	Instrument ID:	D2D
Lims ID:	IC L1		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Wo
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

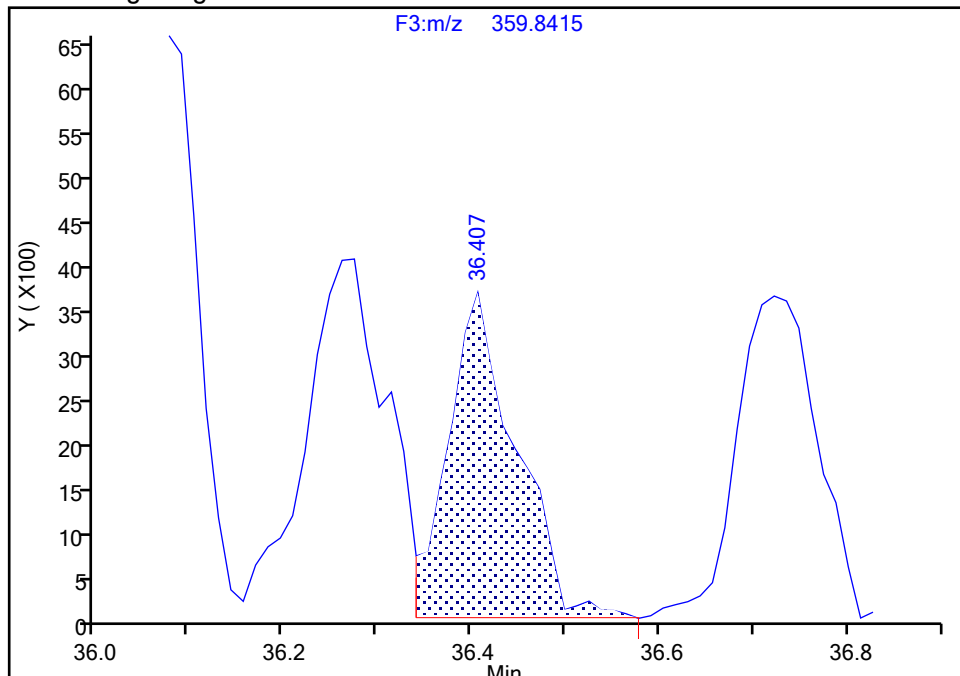
```

ALS Bottle#:      0          Worklist Smp#:      1
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F3(35.64 :49.10 )

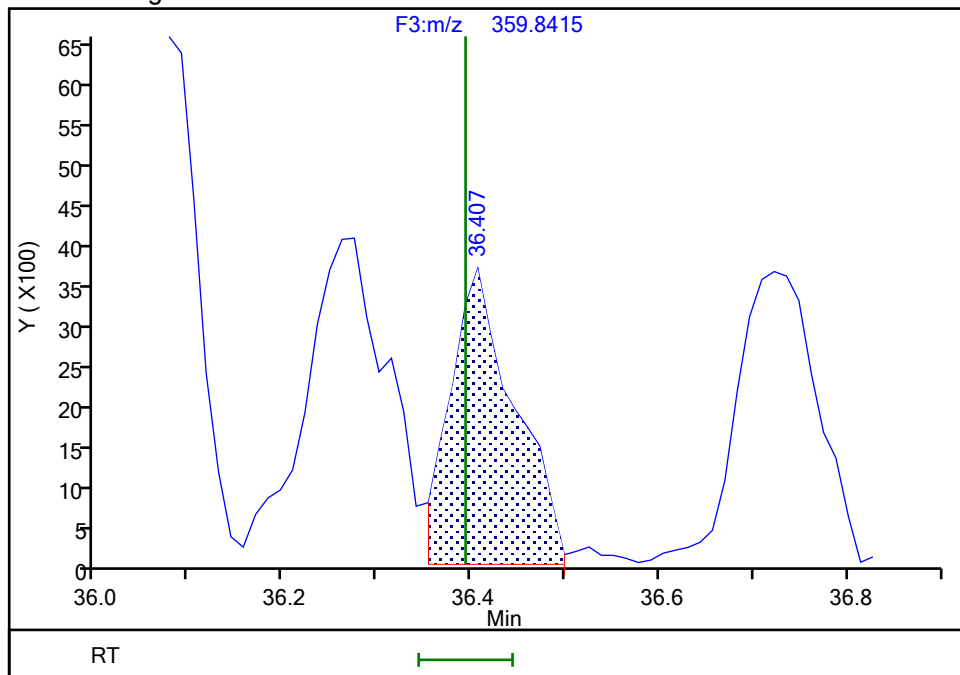
```

Signal: 1

RT: 36.41  
Area: 18363  
Amount: 0.485443  
Amount Units: pg/ul



RT: 36.41  
Area: 17385  
Amount: 0.473115  
Amount Units: pg/ul



Audit Reason: Baseline

## Eurofins Knoxville

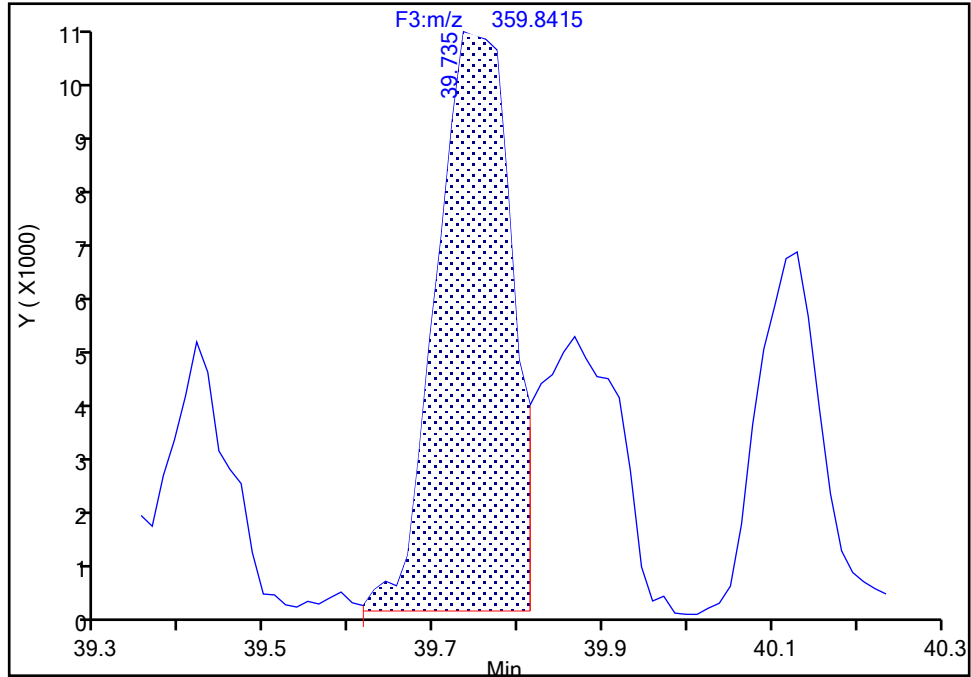
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-129/138/160/163, CAS: STL02296**

Signal: 1

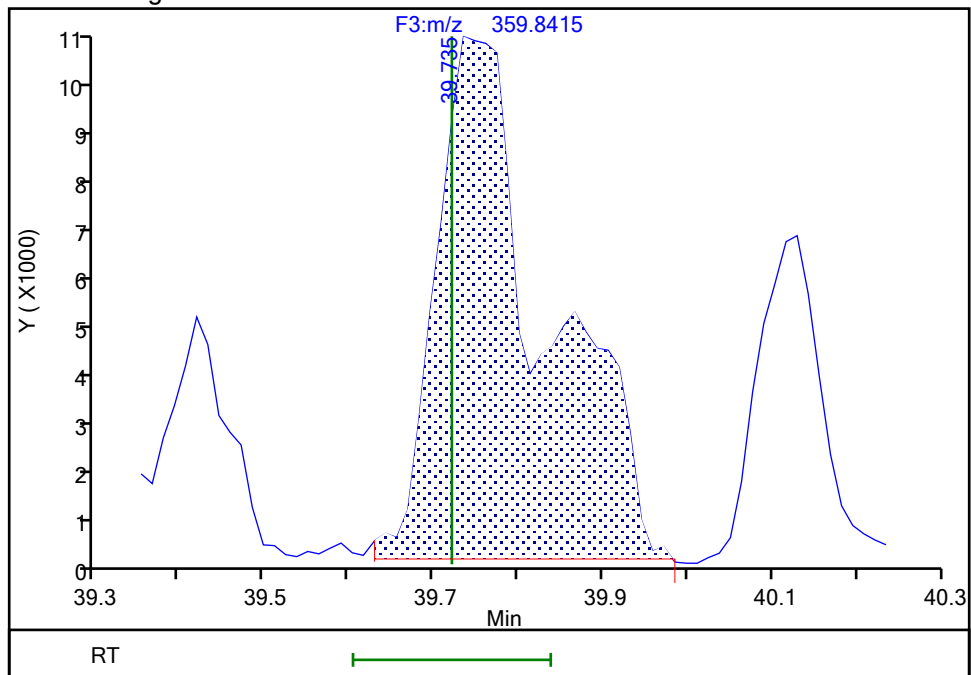
RT: 39.73  
Area: 61420  
Amount: 1.440948  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.73  
Area: 91627  
Amount: 1.965277  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

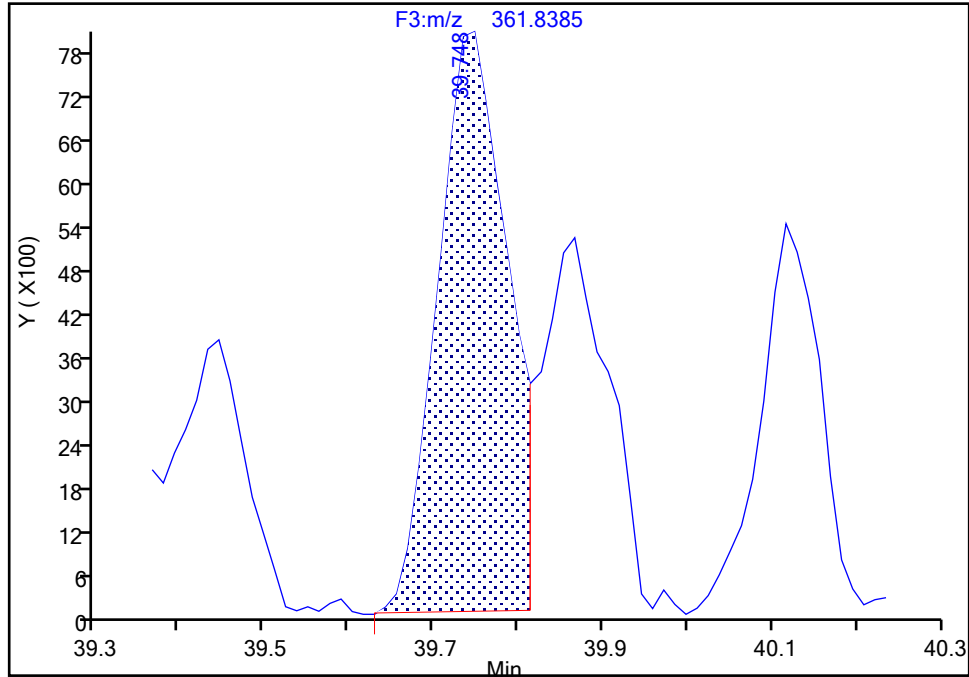
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

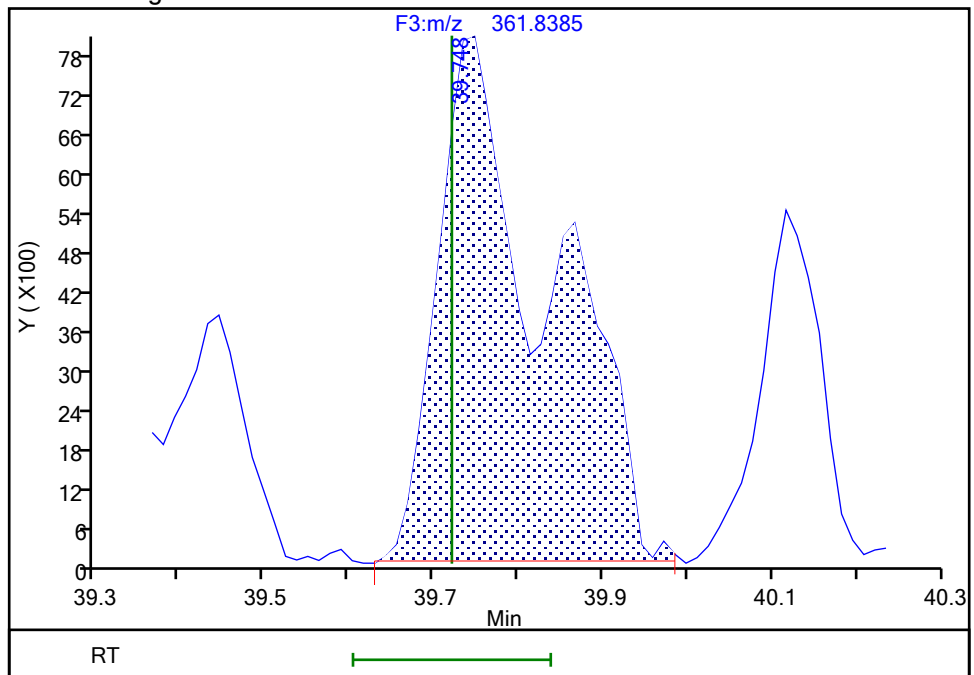
RT: 39.75  
Area: 45519  
Amount: 1.440948  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.75  
Area: 73127  
Amount: 1.965277  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-F-2024-0002  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

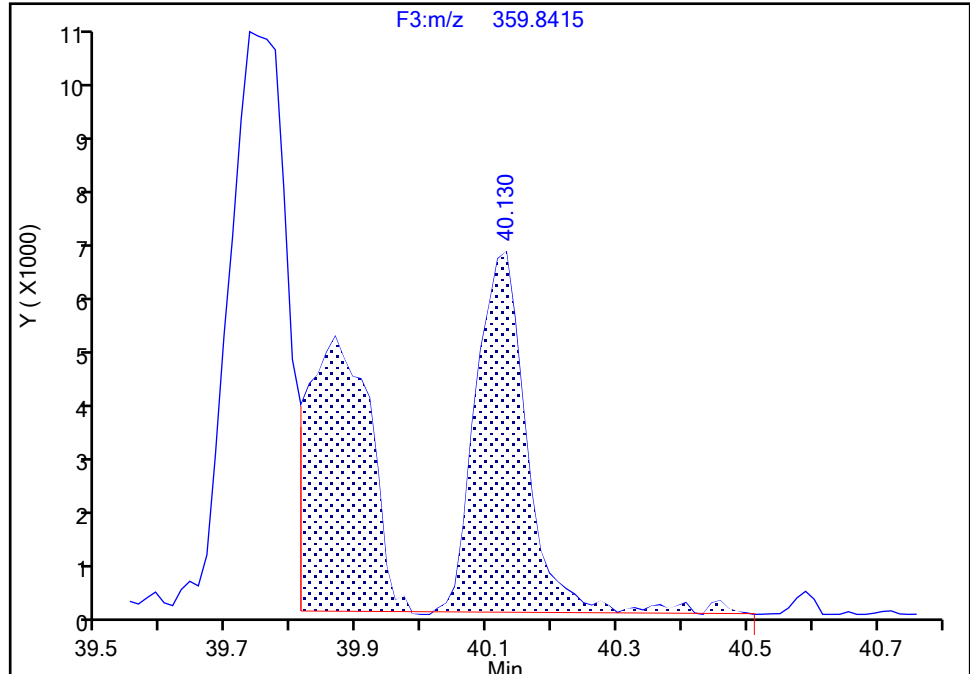
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-158, CAS: 74472-42-7

Signal: 1

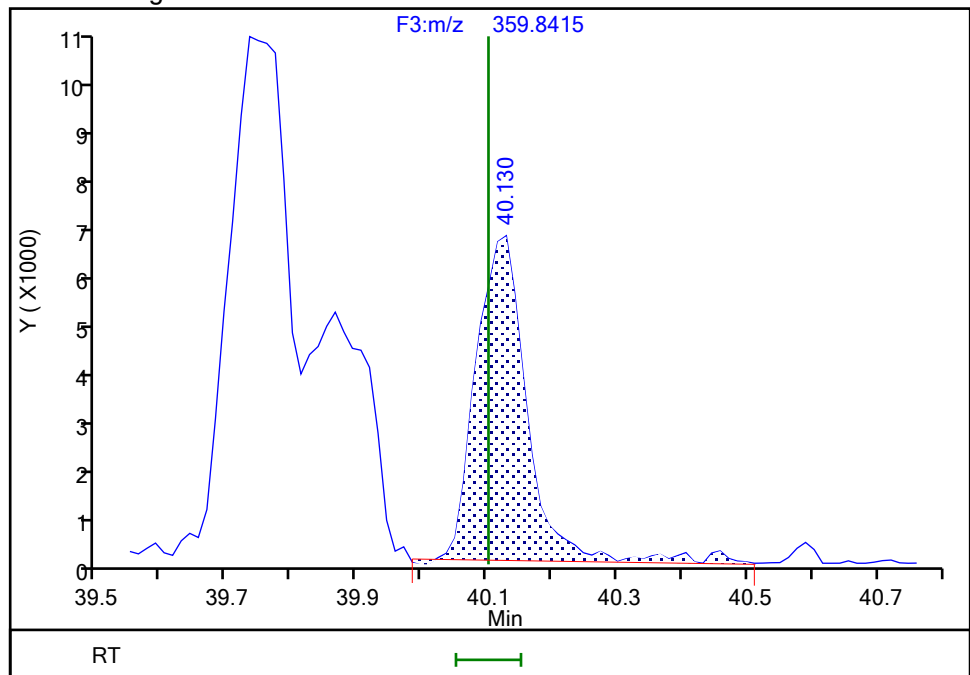
RT: 40.13  
Area: 65243  
Amount: 0.974334  
Amount Units: pg/ul

## Processing Integration Results



RT: 40.13  
Area: 34022  
Amount: 0.519156  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

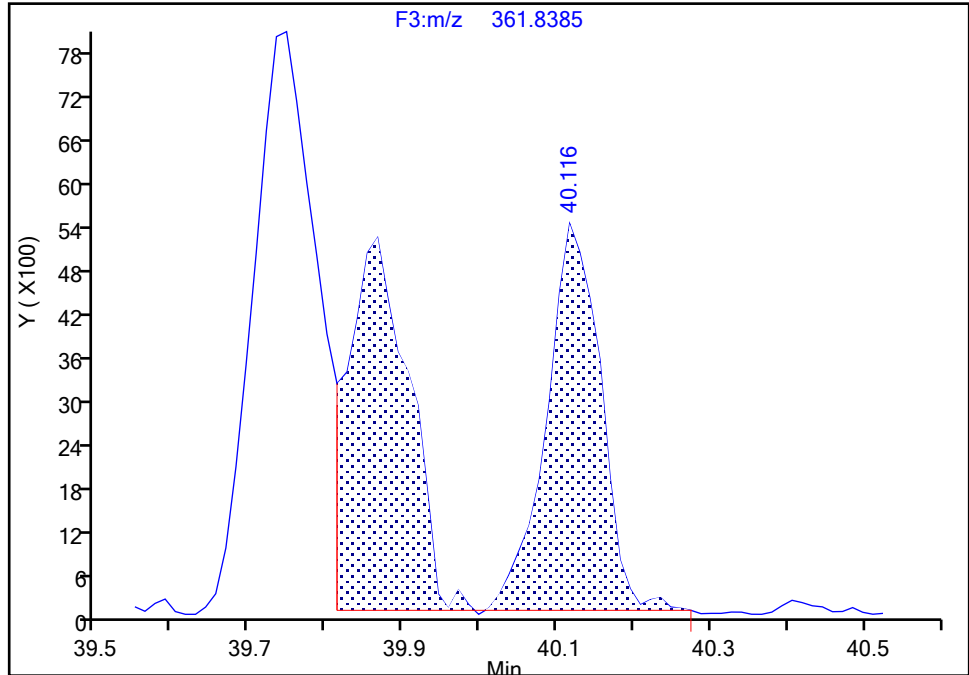
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-158, CAS: 74472-42-7

Signal: 2

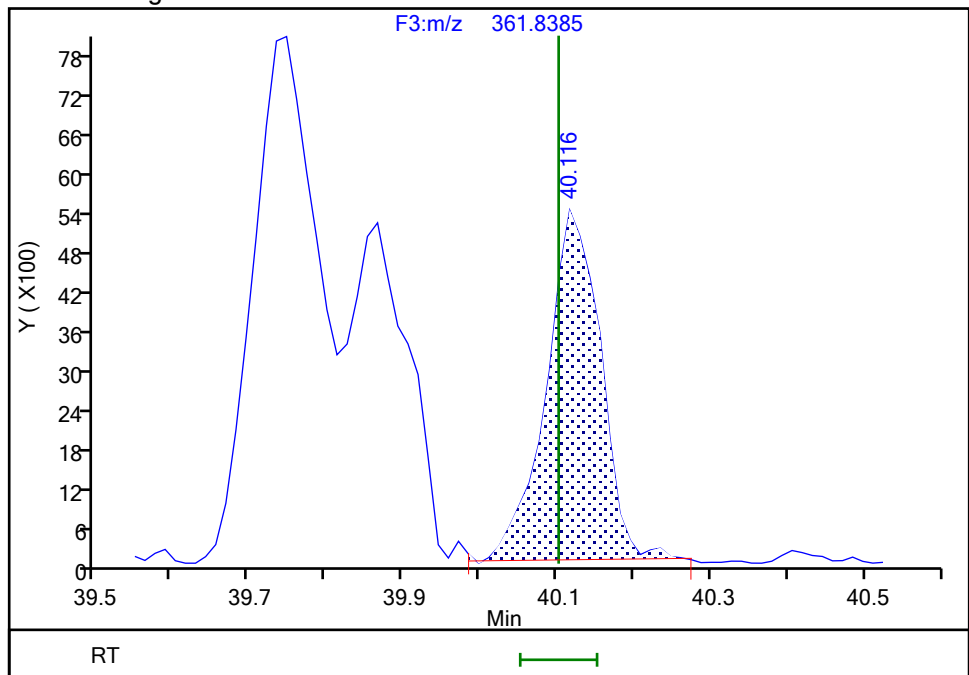
RT: 40.12  
Area: 54061  
Amount: 0.974334  
Amount Units: pg/ul

## Processing Integration Results



RT: 40.12  
Area: 26269  
Amount: 0.519156  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 16:43:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

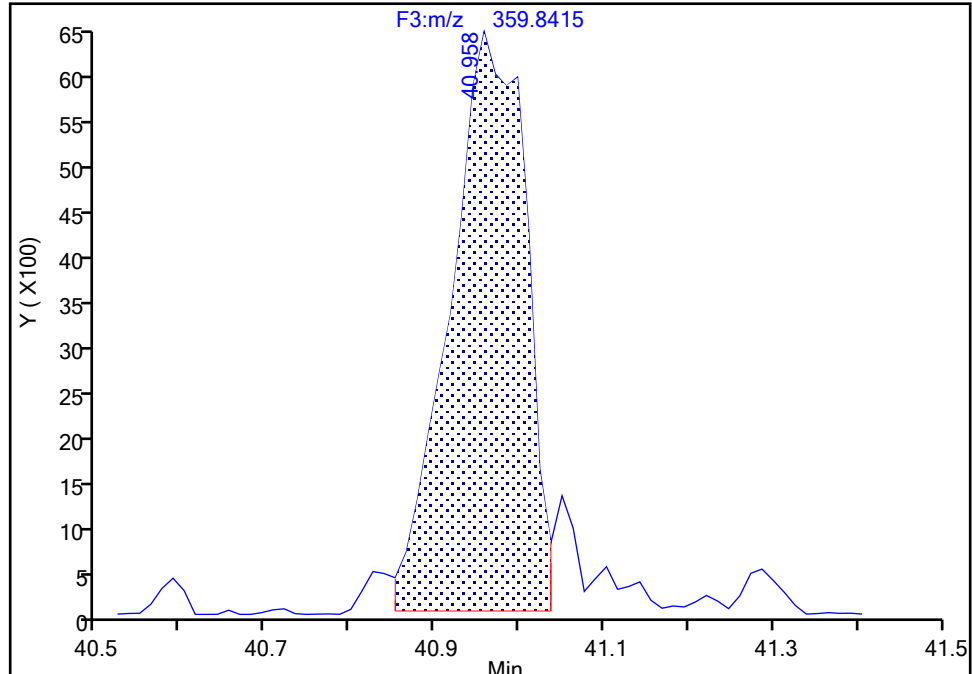
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-128/166, CAS: STL01816**

Signal: 1

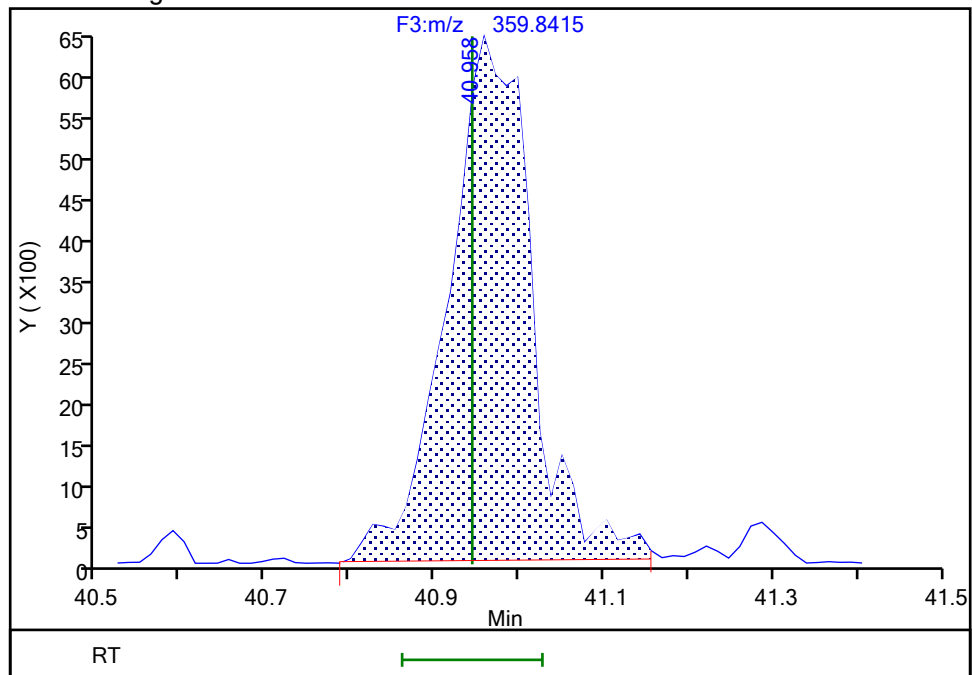
RT: 40.96  
Area: 39562  
Amount: 0.944576  
Amount Units: pg/ul

## Processing Integration Results



RT: 40.96  
Area: 44274  
Amount: 0.963629  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

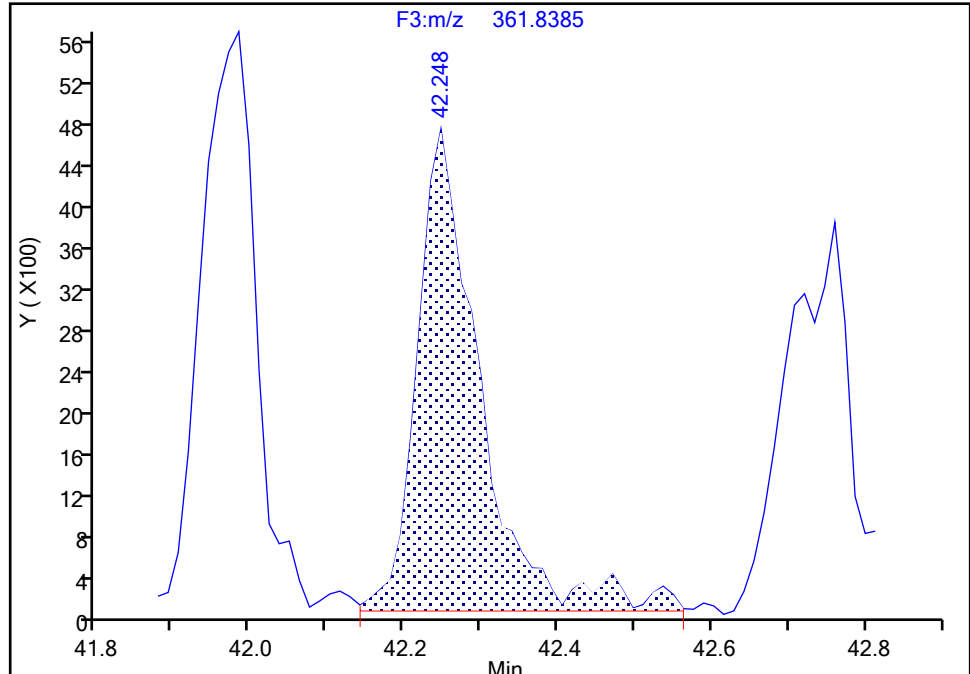
Detector F3(35.64 :49.10 )

**PCB-162, CAS: 39635-34-2**

Signal: 2

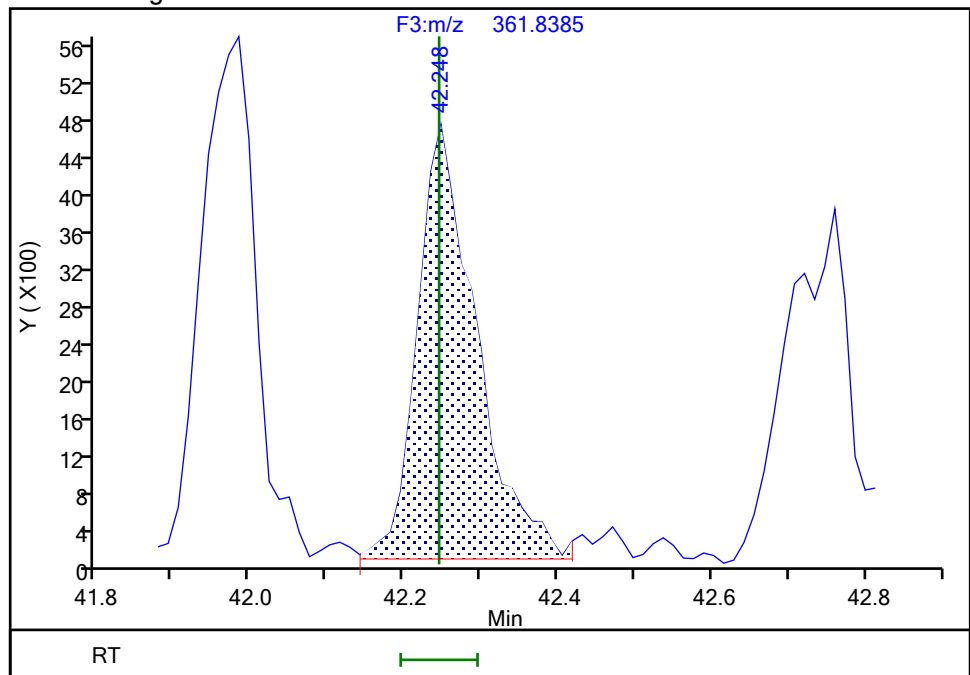
RT: 42.25  
Area: 26211  
Amount: 0.551813  
Amount Units: pg/ul

## Processing Integration Results



RT: 42.25  
Area: 24701  
Amount: 0.496624  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:03:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

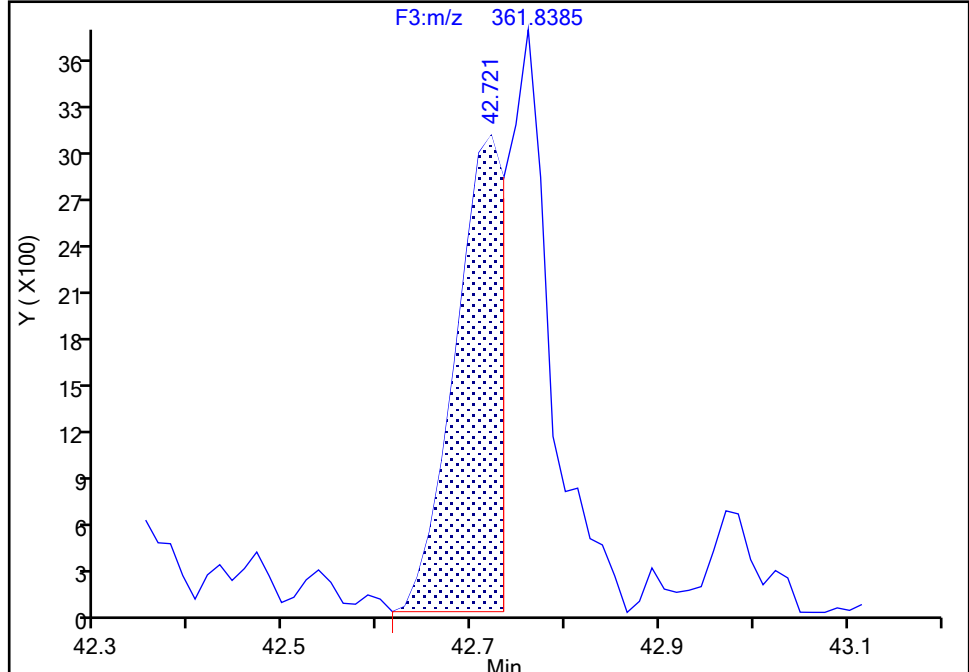
Detector F3(35.64 :49.10 )

**PCB-167, CAS: 52663-72-6**

Signal: 2

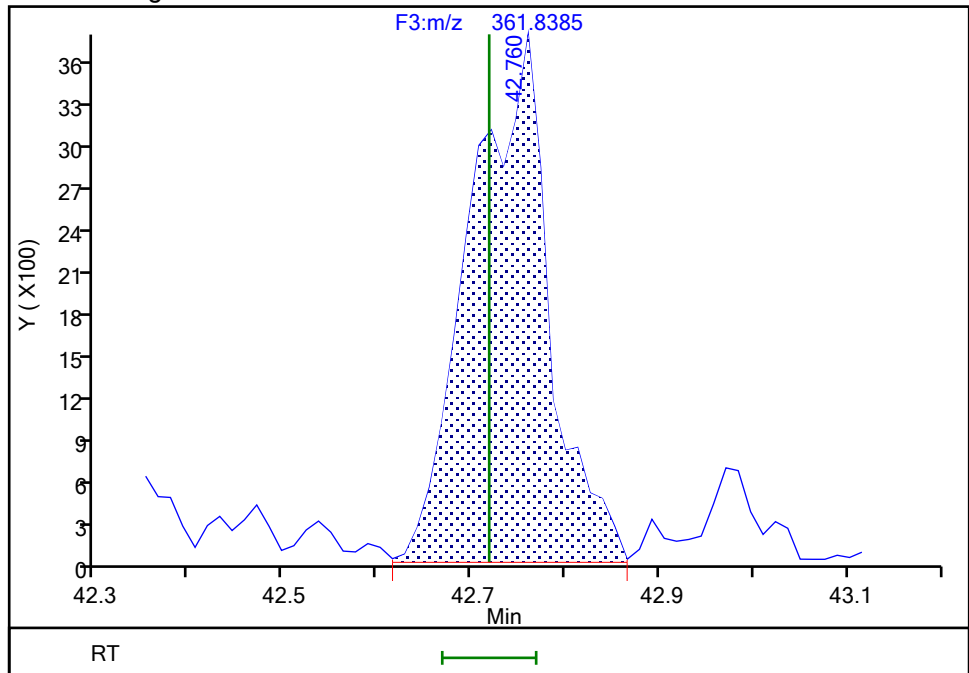
RT: 42.72  
Area: 10384  
Amount: 0.403076  
Amount Units: pg/ul

## Processing Integration Results



RT: 42.76  
Area: 22483  
Amount: 0.504170  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:37:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

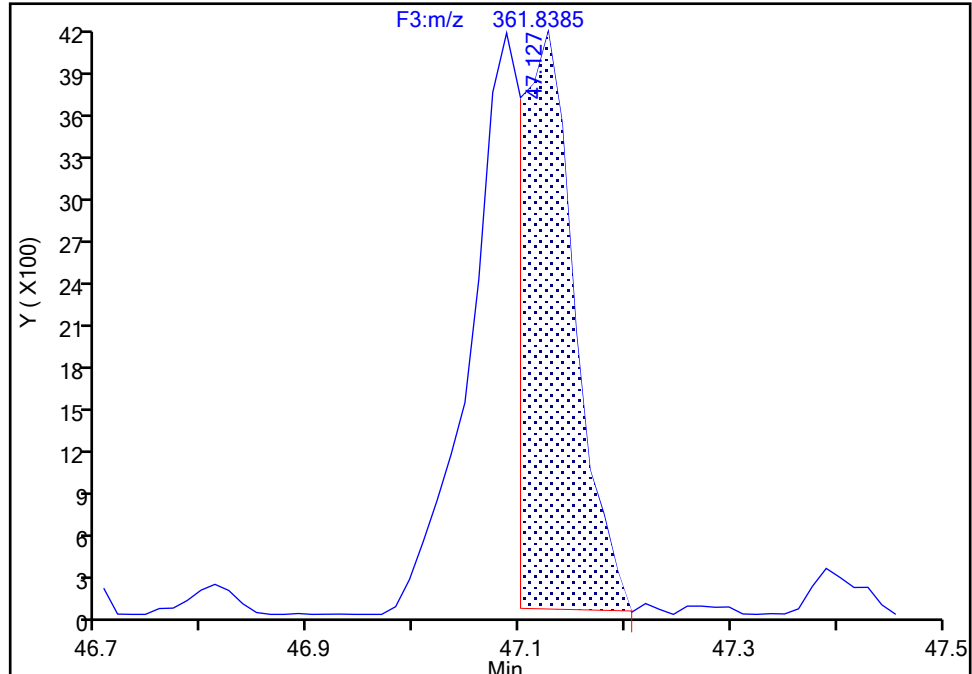
Detector F3(35.64 :49.10 )

**PCB-169, CAS: 32774-16-6**

Signal: 2

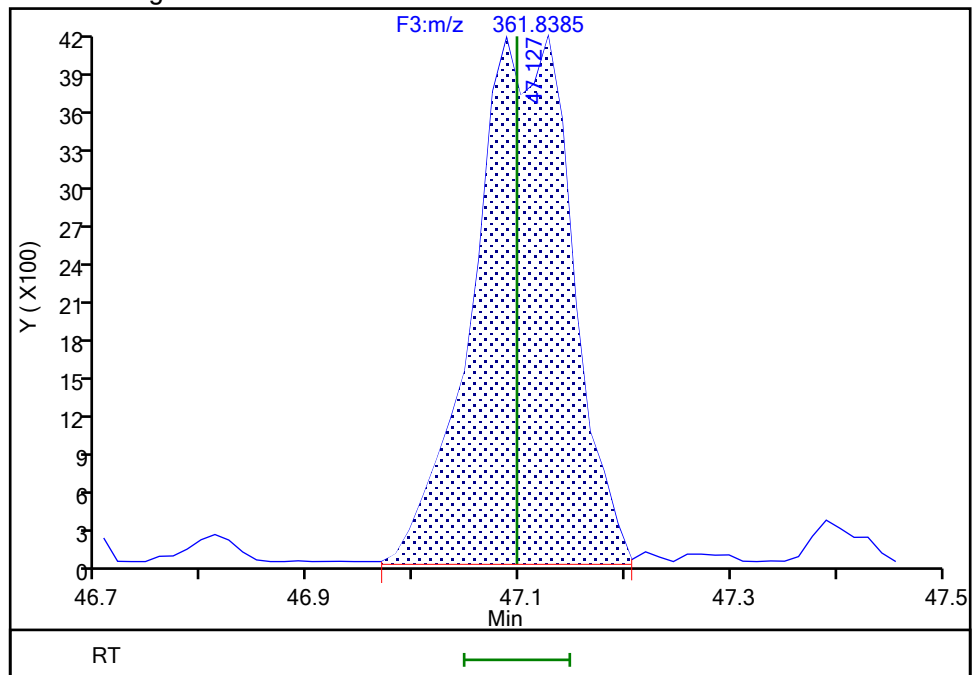
RT: 47.13  
Area: 13314  
Amount: 0.387209  
Amount Units: pg/ul

## Processing Integration Results



RT: 47.13  
Area: 26435  
Amount: 0.514281  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:37:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d		
Injection Date:	31-May-2024 14:36:00	Instrument ID:	D2D
Lims ID:	IC L1		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 Wo
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

```

ALS Bottle#:      0          Worklist Smp#:      1
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F3(35.64 :49.10 )

```

Signal: 1

Not Detected  
Expected RT: 41.93

Chromatogram showing a single sharp peak at 371.8817 minutes. The y-axis is labeled 'Y (X10000)' and ranges from 0 to 84. The x-axis is labeled 'Min' and ranges from 41.5 to 42.5. The peak is labeled 'F3:m/z 371.8817'.

RT: 41.95  
Area: 4449727  
Amount: 95.479320  
Amount Units: pg/ul

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

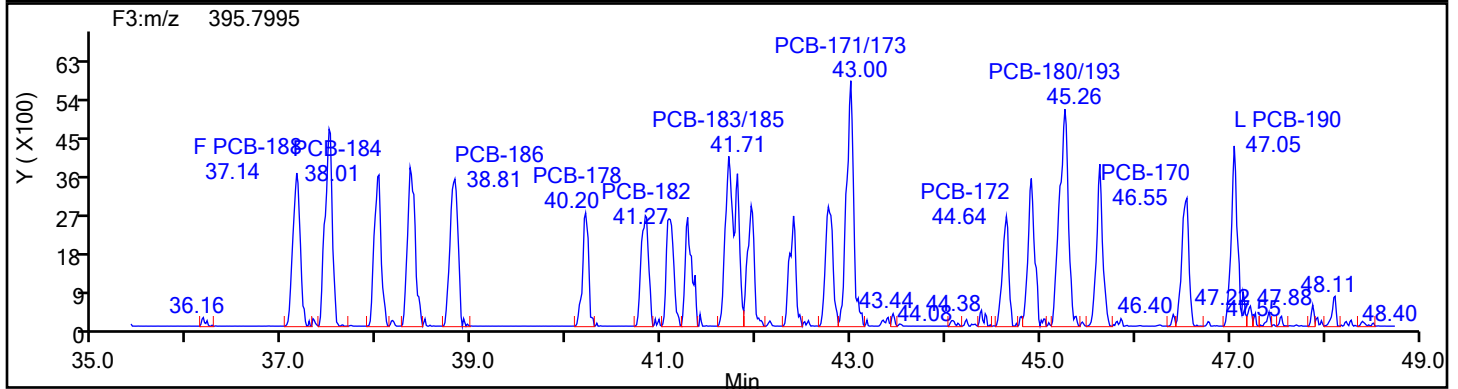
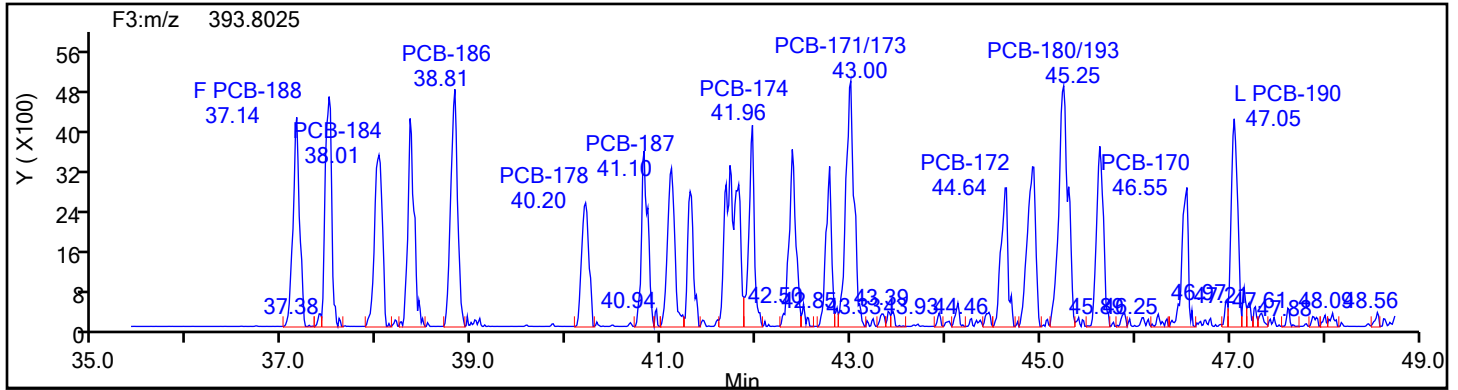
Worklist#: 87130

Sample Line#: 1

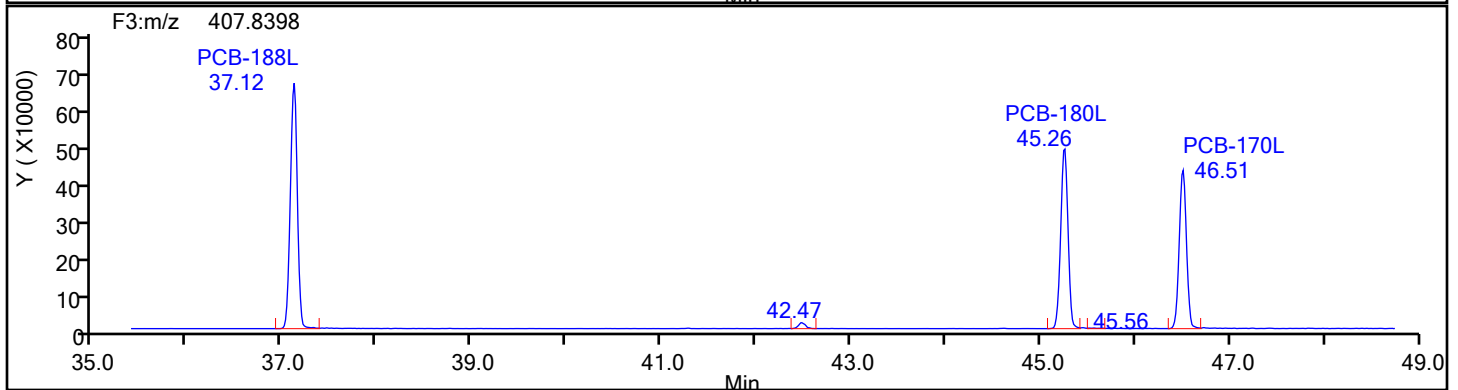
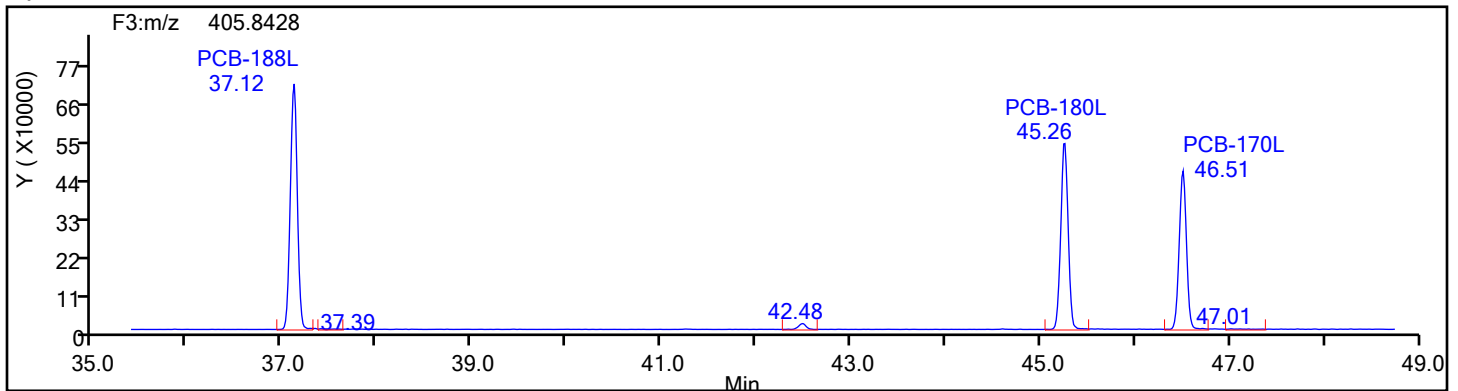
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

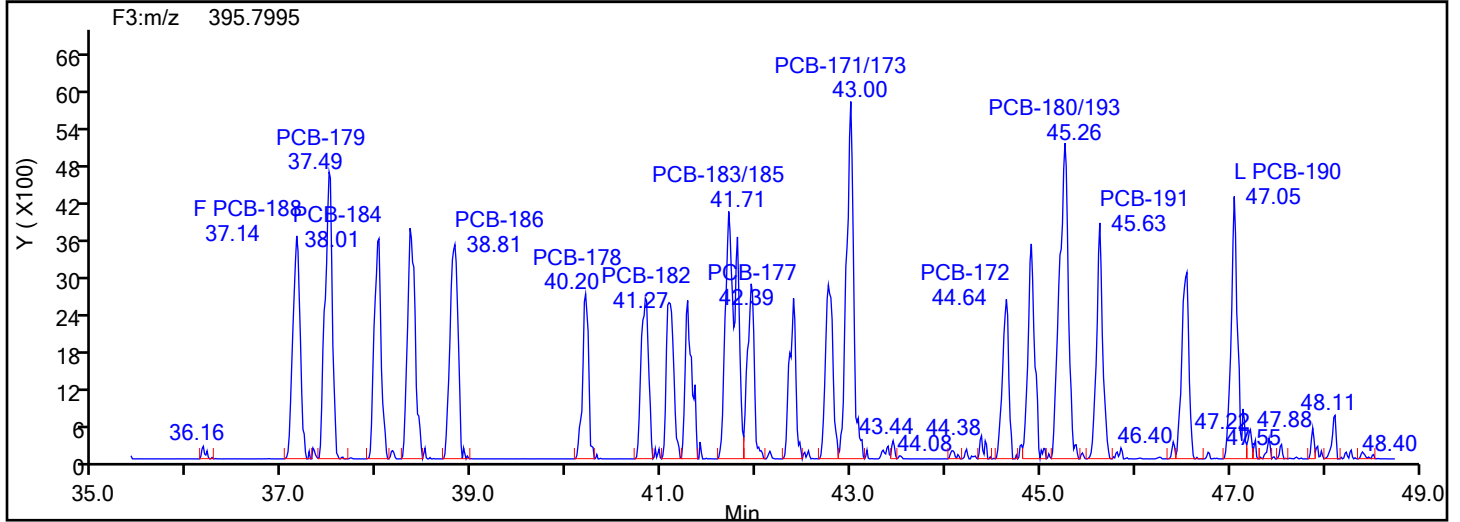
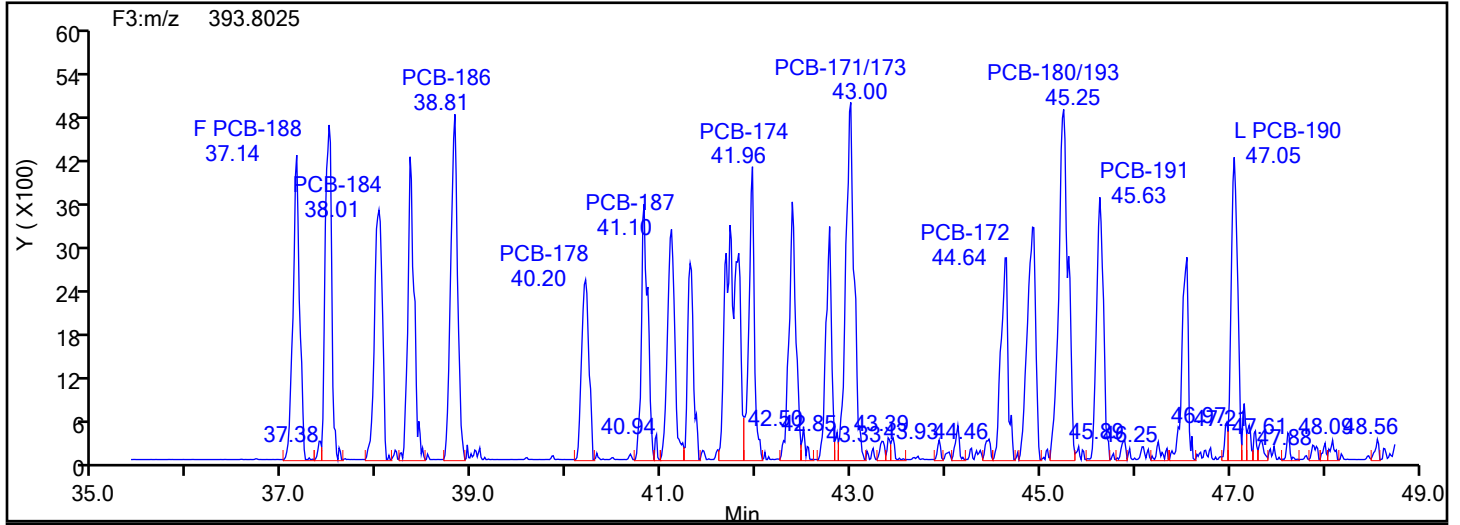
Worklist#: 87130

Sample Line#: 1

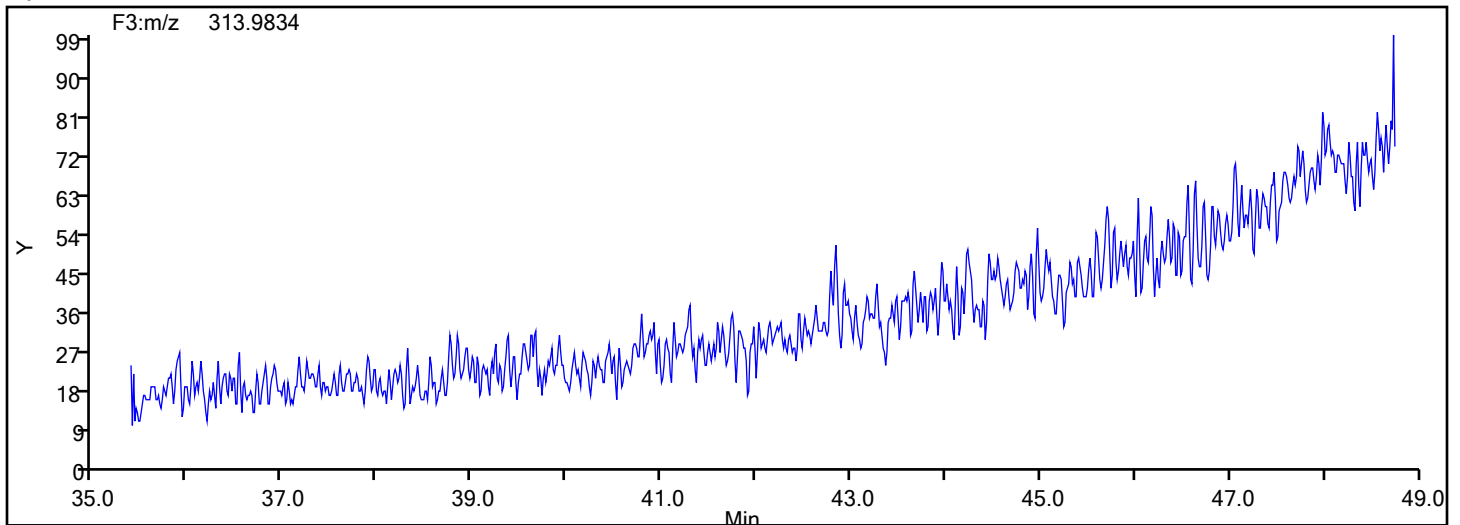
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

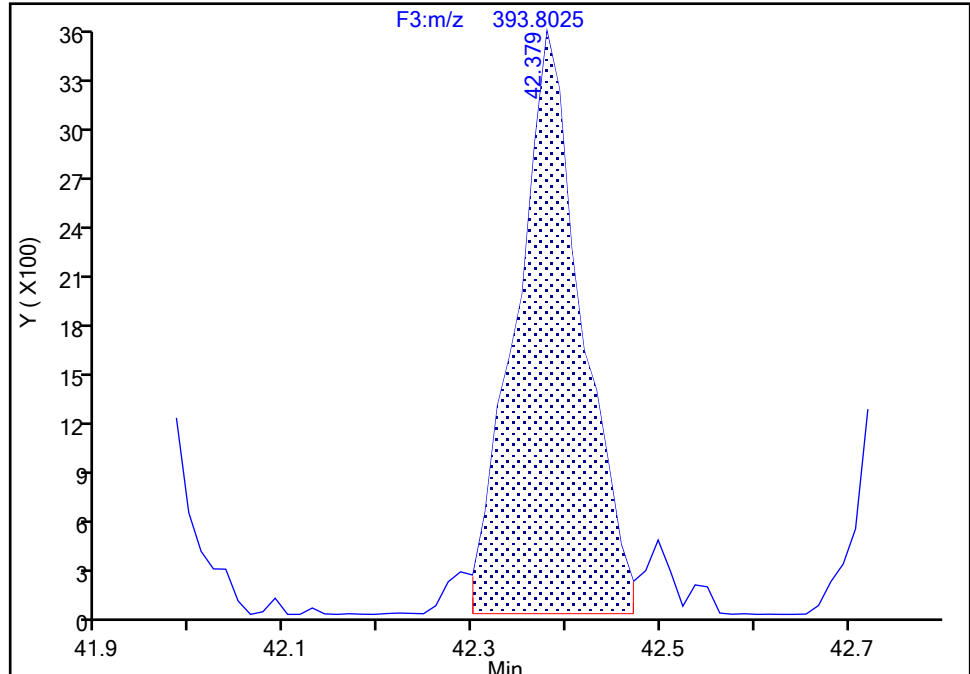
Detector F3(35.64 :49.10 )

**PCB-177, CAS: 52663-70-4**

Signal: 1

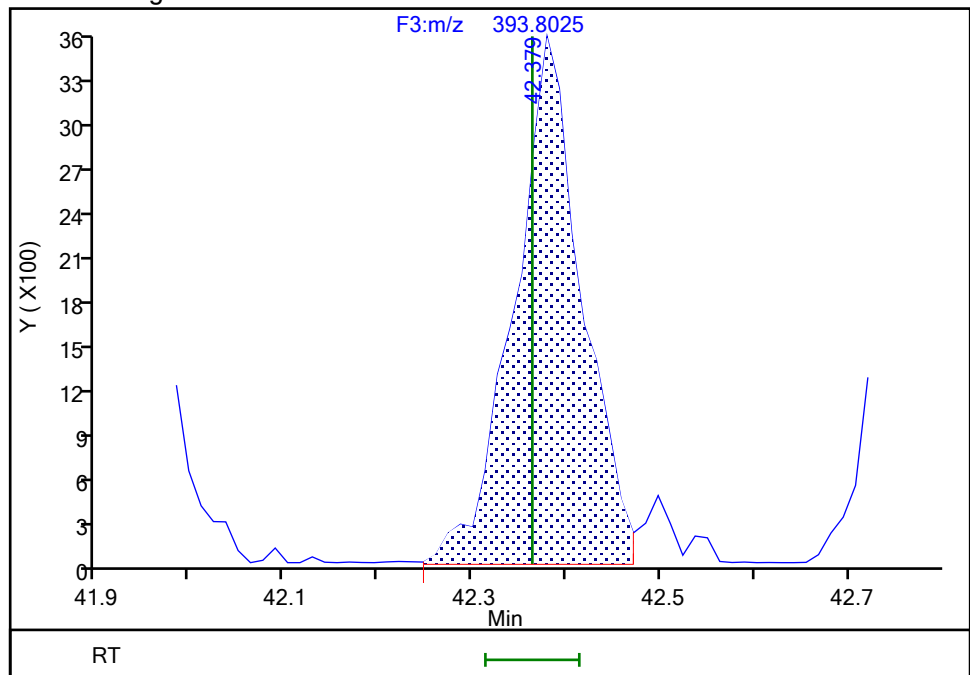
RT: 42.38  
Area: 17239  
Amount: 0.509180  
Amount Units: pg/ul

## Processing Integration Results



RT: 42.38  
Area: 17793  
Amount: 0.515118  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:32:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

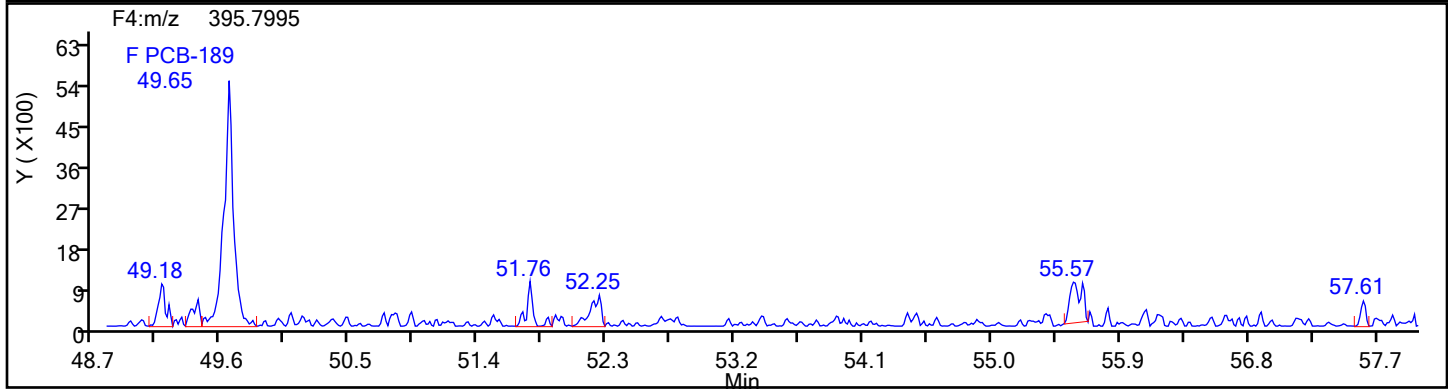
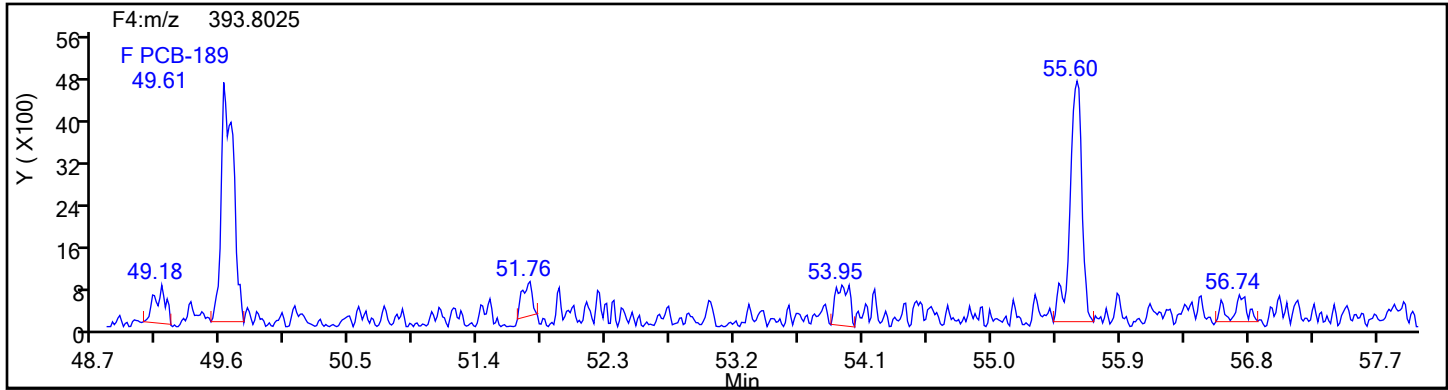
Worklist#: 87130

Sample Line#: 1

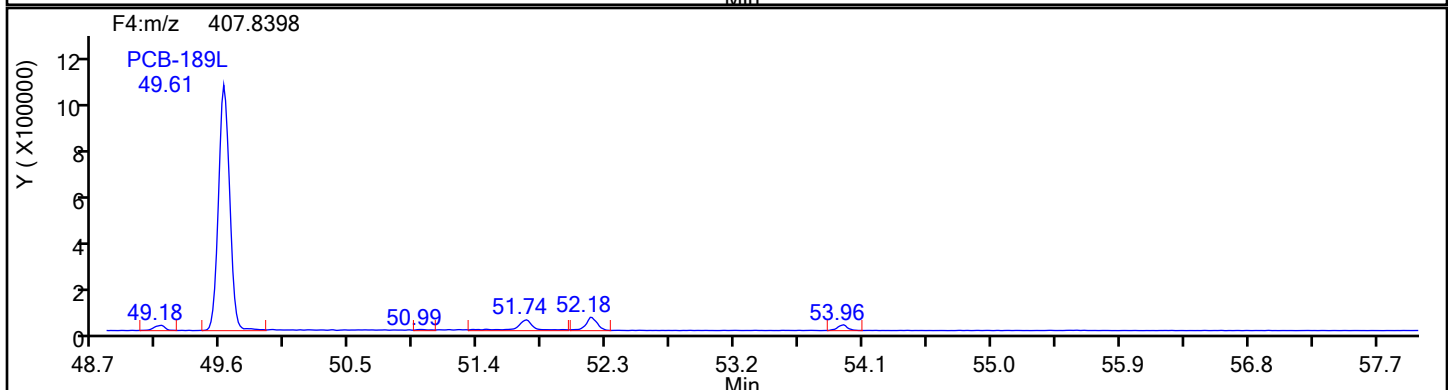
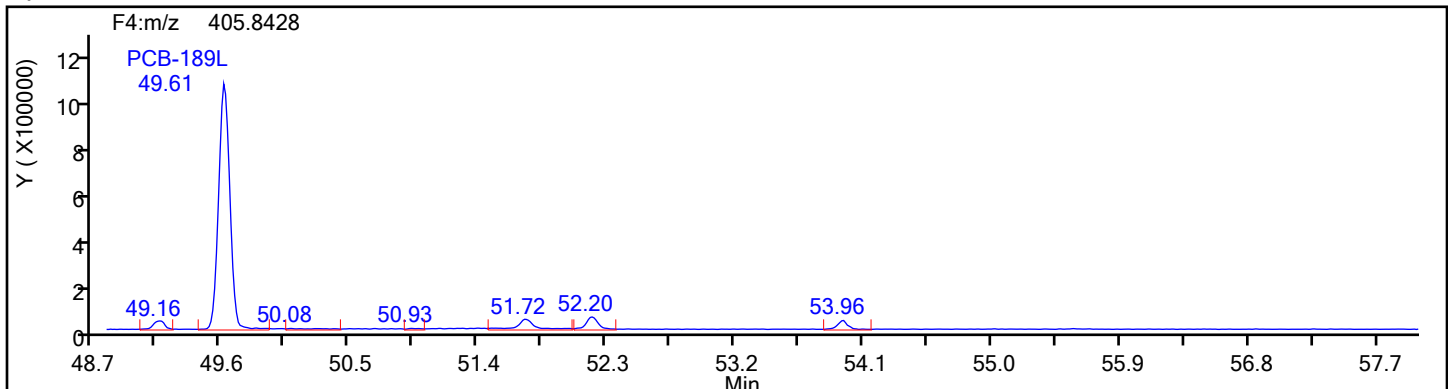
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

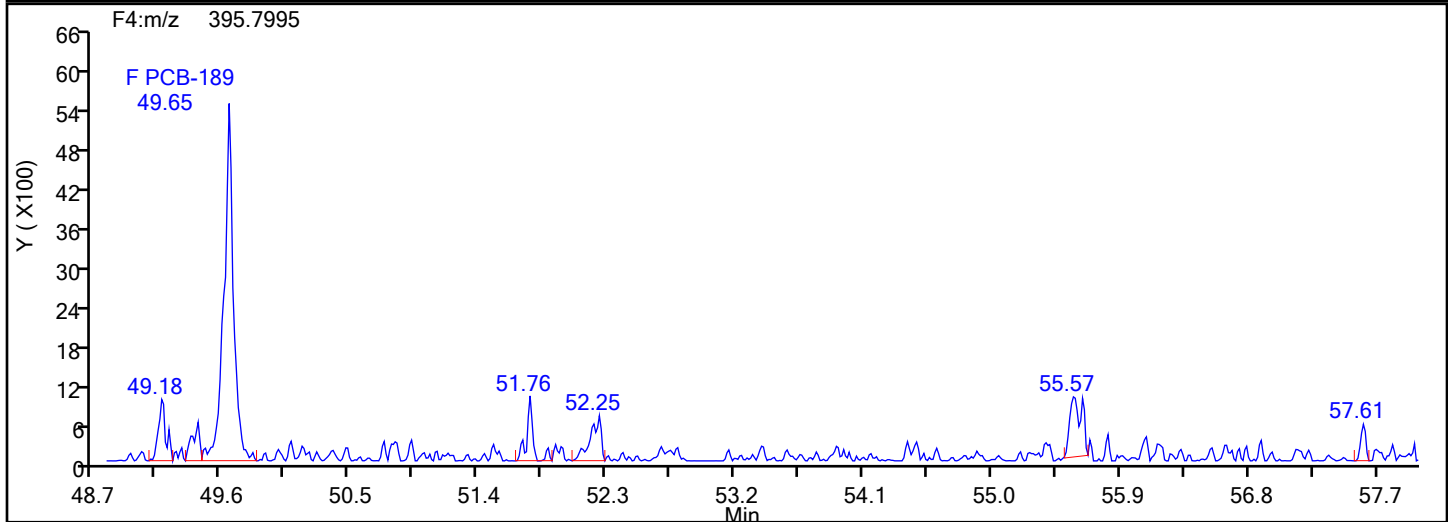
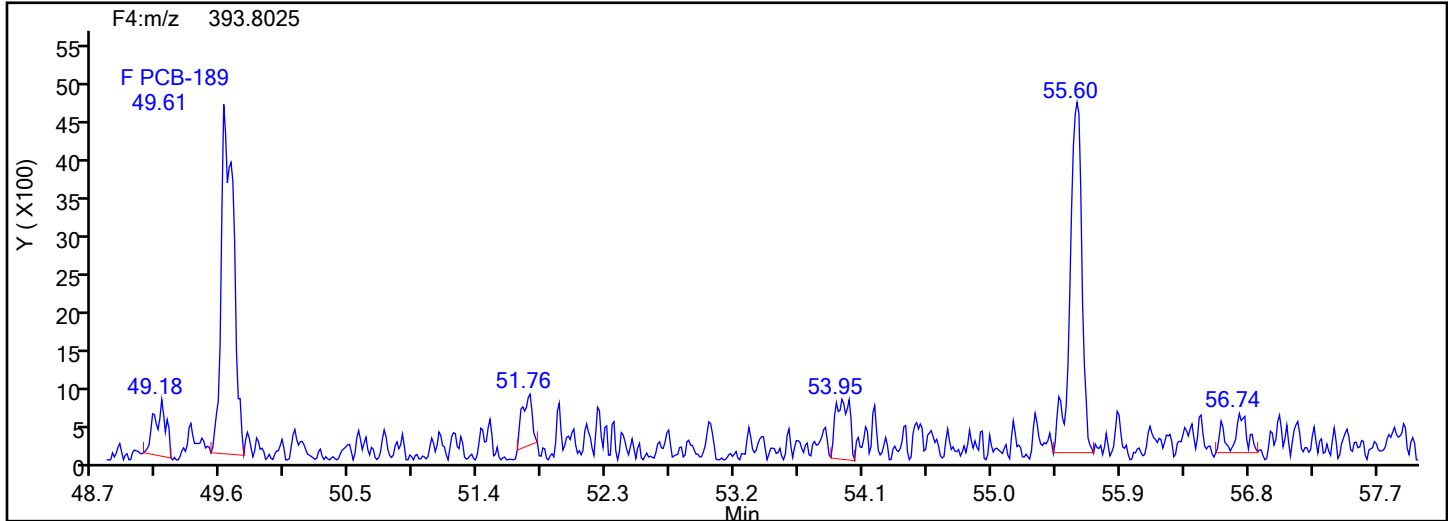
Worklist#: 87130

Sample Line#: 1

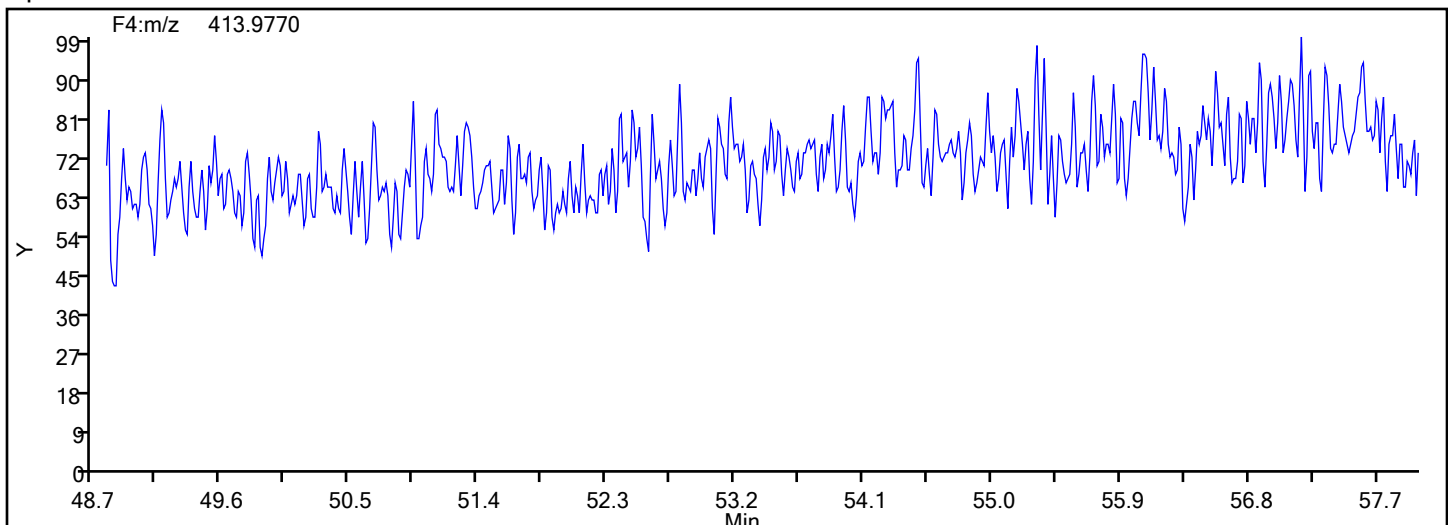
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



## HpPCB F4 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

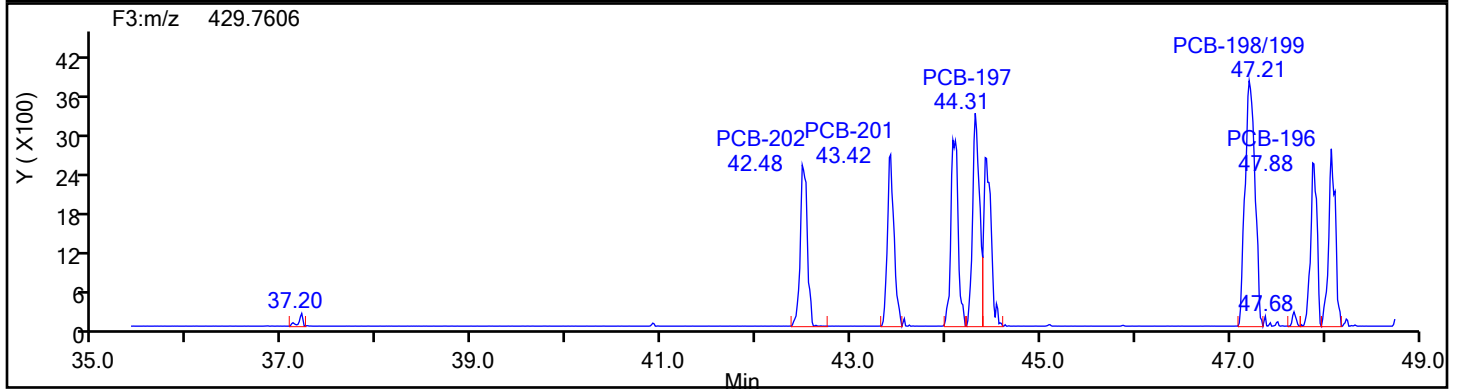
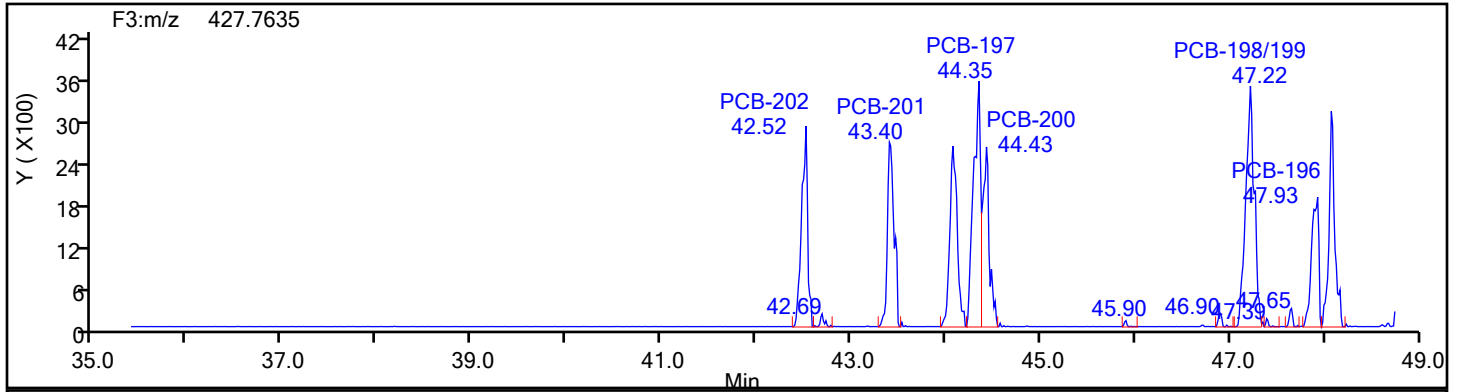
Worklist#: 87130

Sample Line#: 1

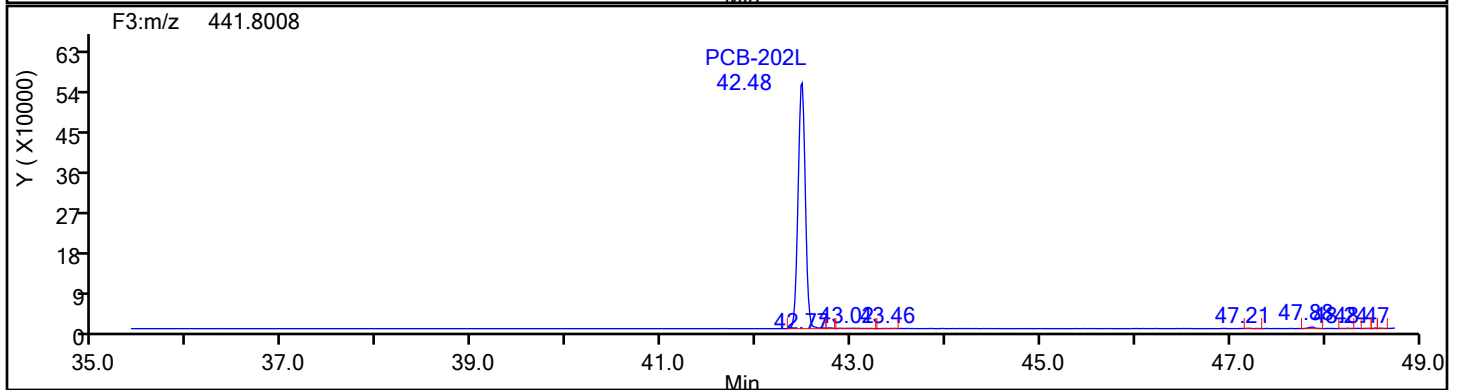
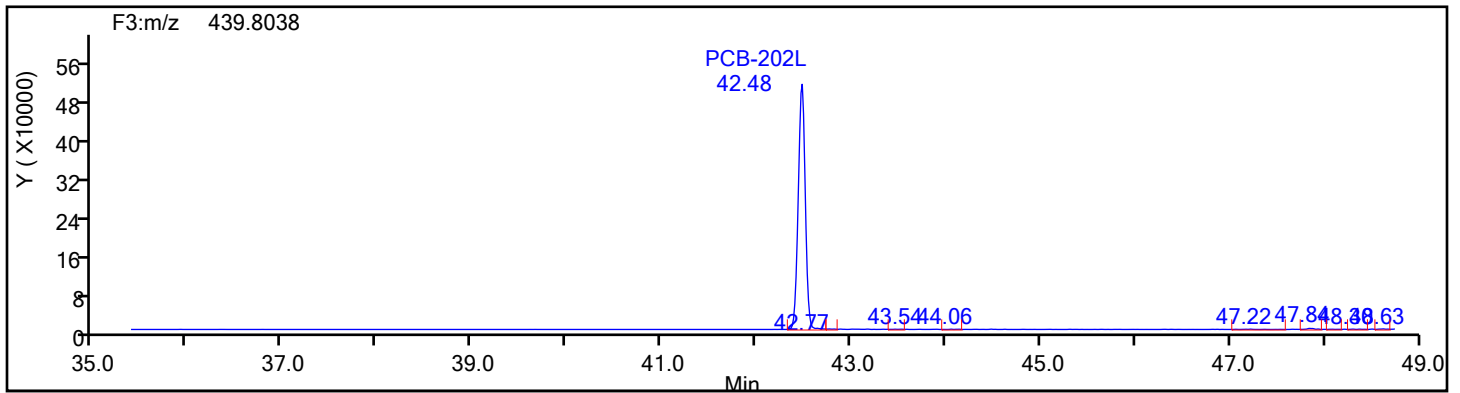
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

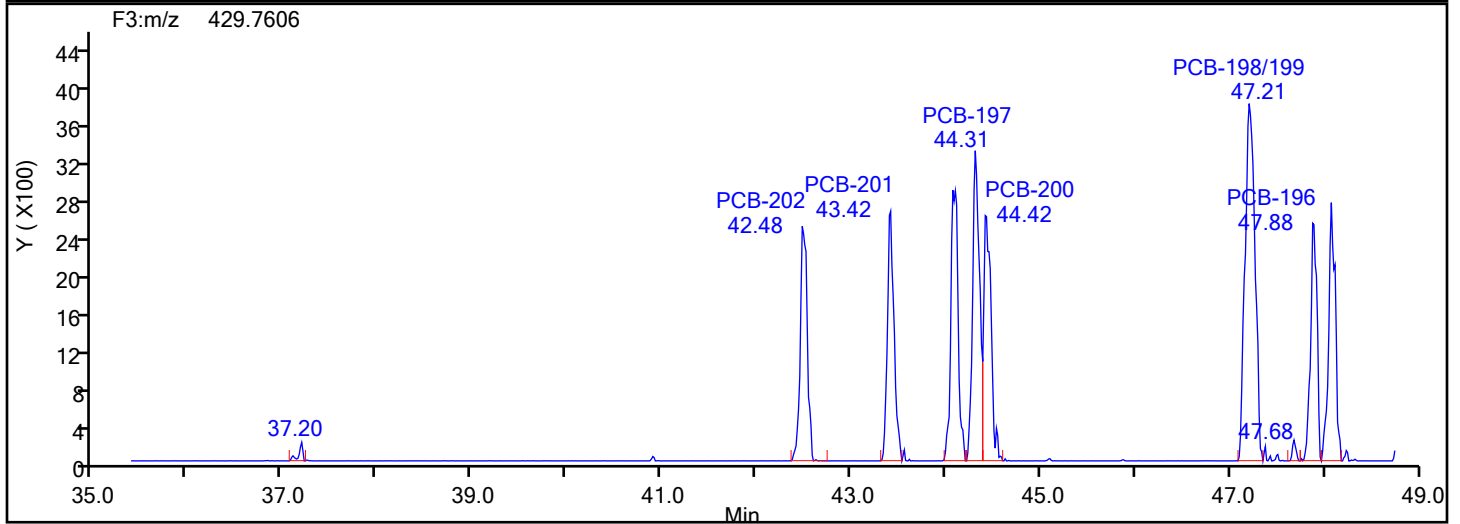
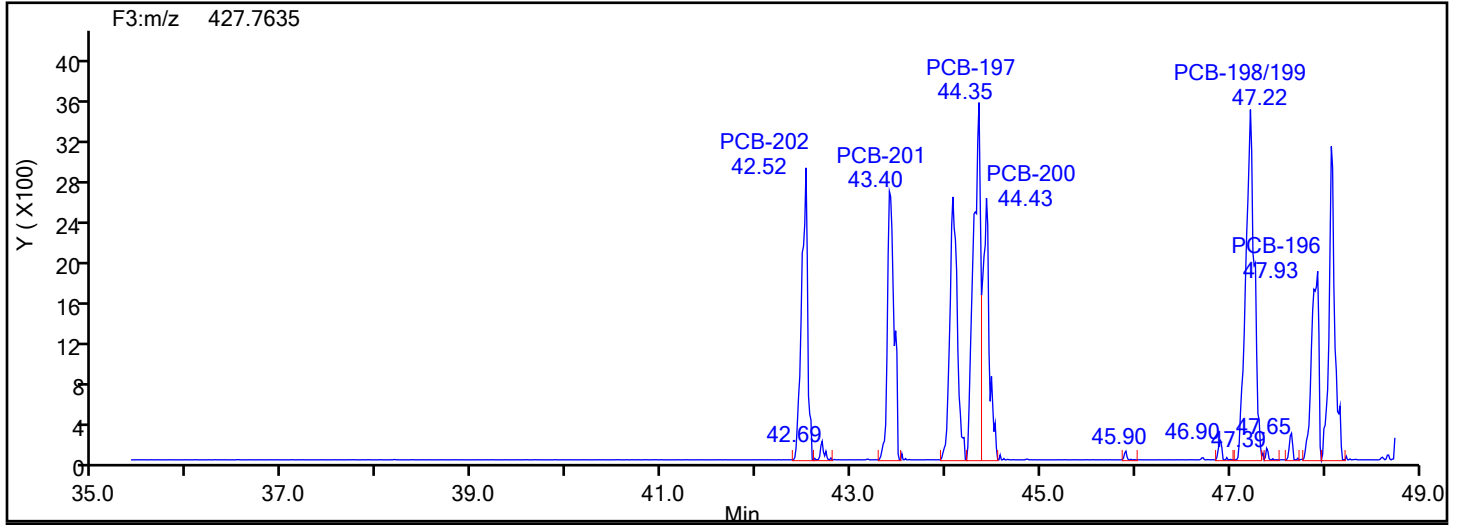
Worklist#: 87130

Sample Line#: 1

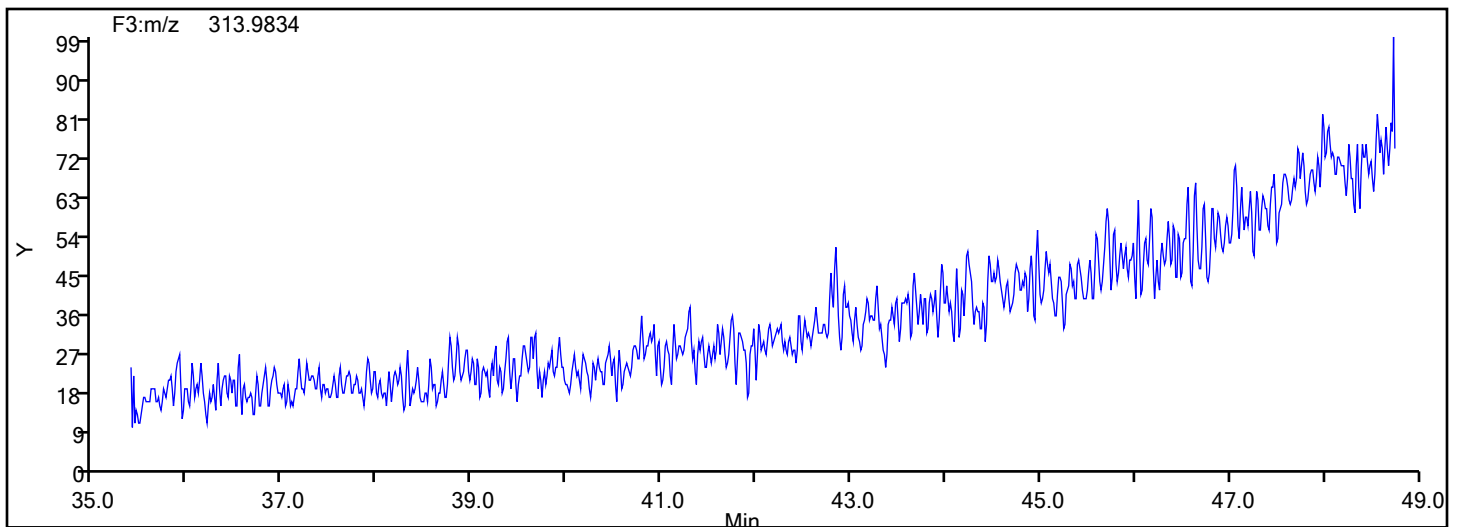
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



## OcPCB F3 Lock Mass



## Eurofins Knoxville

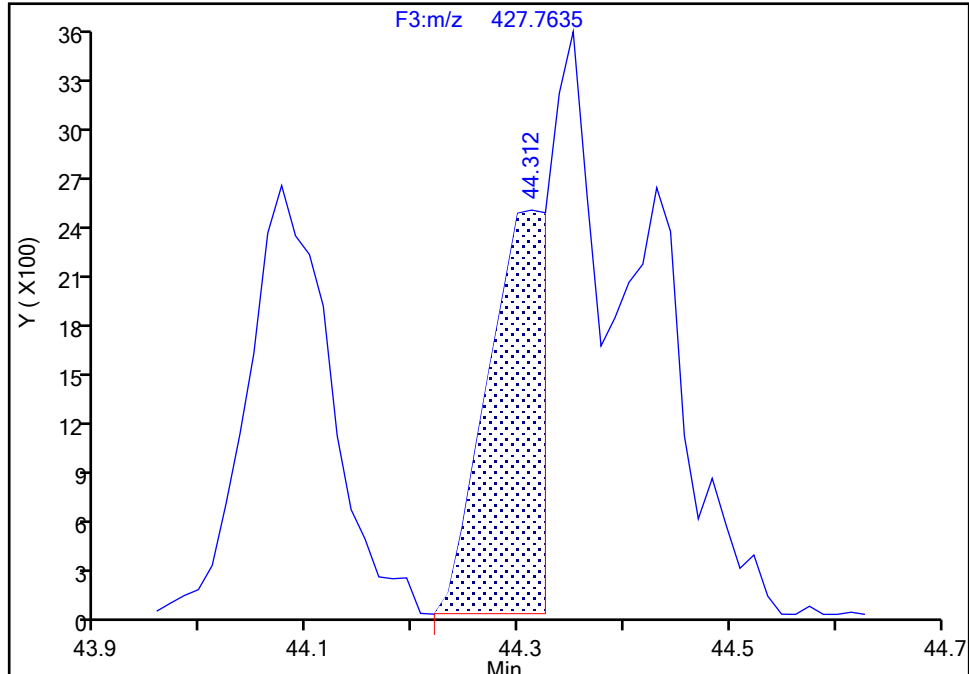
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-197, CAS: 33091-17-7

Signal: 1

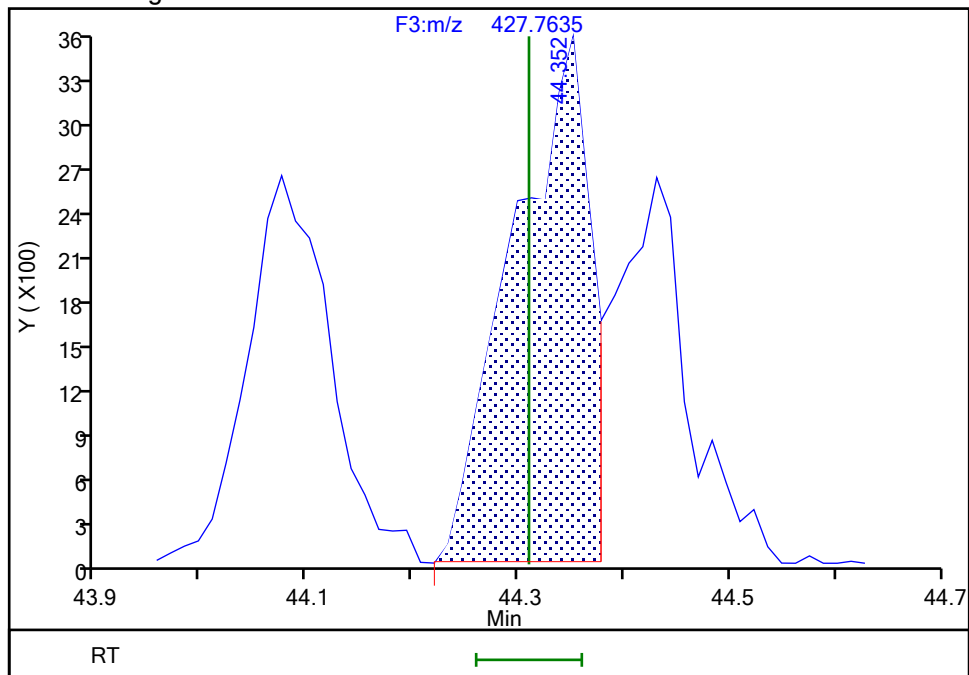
RT: 44.31  
Area: 8828  
Amount: 0.448021  
Amount Units: pg/ul

## Processing Integration Results



RT: 44.35  
Area: 17650  
Amount: 0.536283  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:04:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

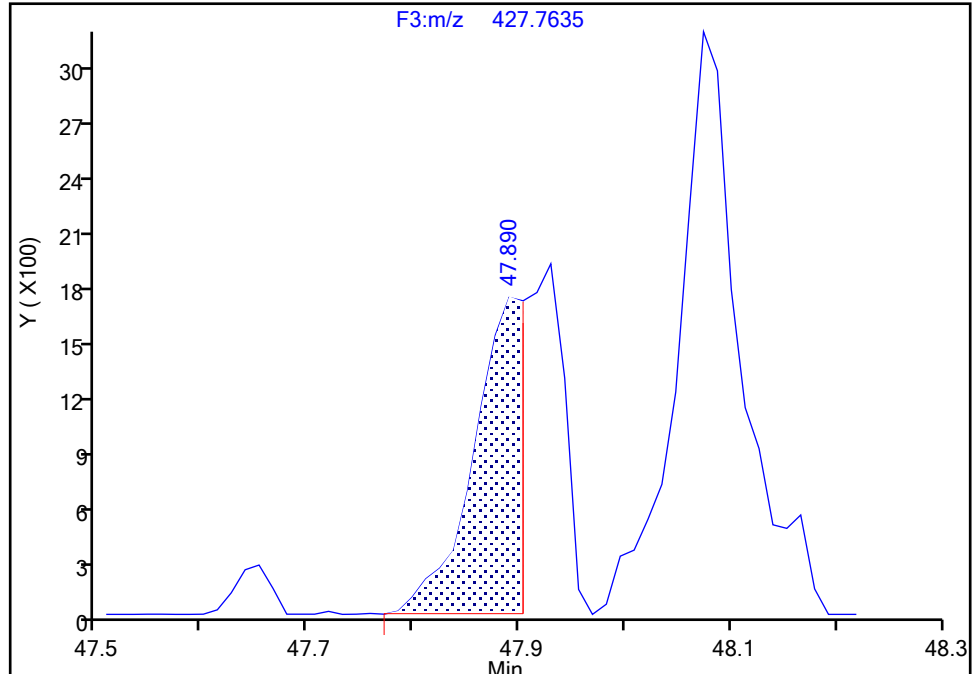
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

## PCB-196, CAS: 42740-50-1

Signal: 1

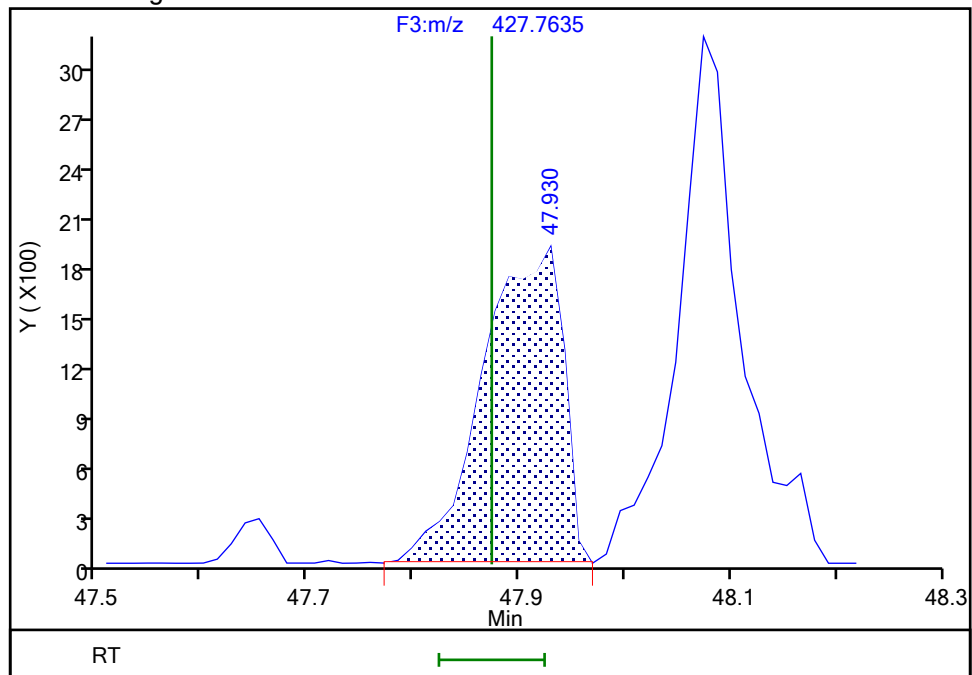
RT: 47.89  
Area: 5223  
Amount: 0.409421  
Amount Units: pg/ul

## Processing Integration Results



RT: 47.93  
Area: 9747  
Amount: 0.496046  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

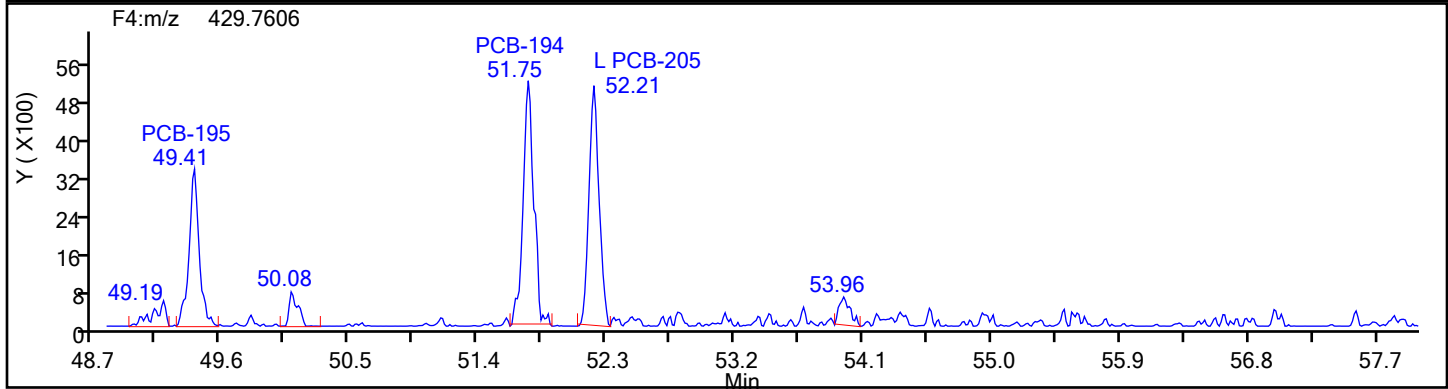
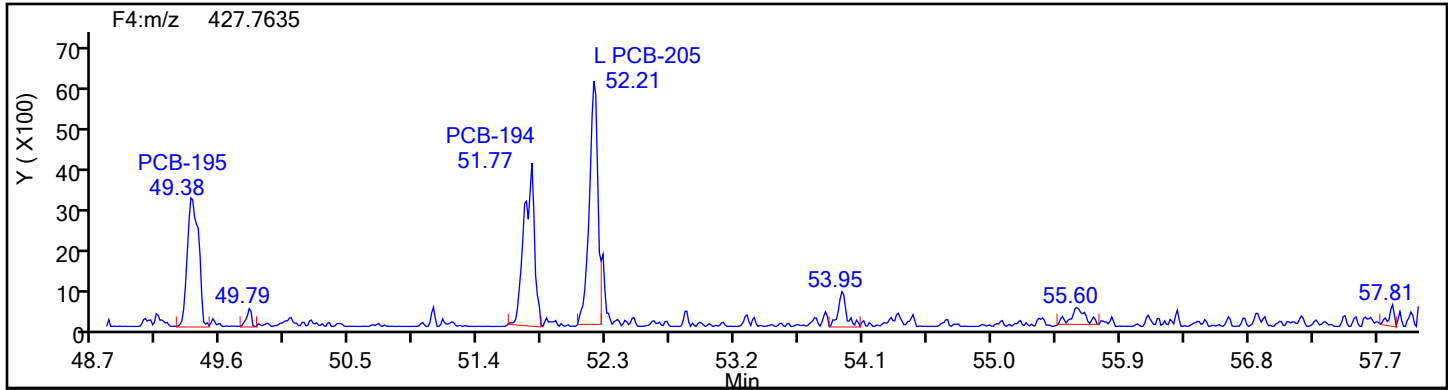
Worklist#: 87130

Sample Line#: 1

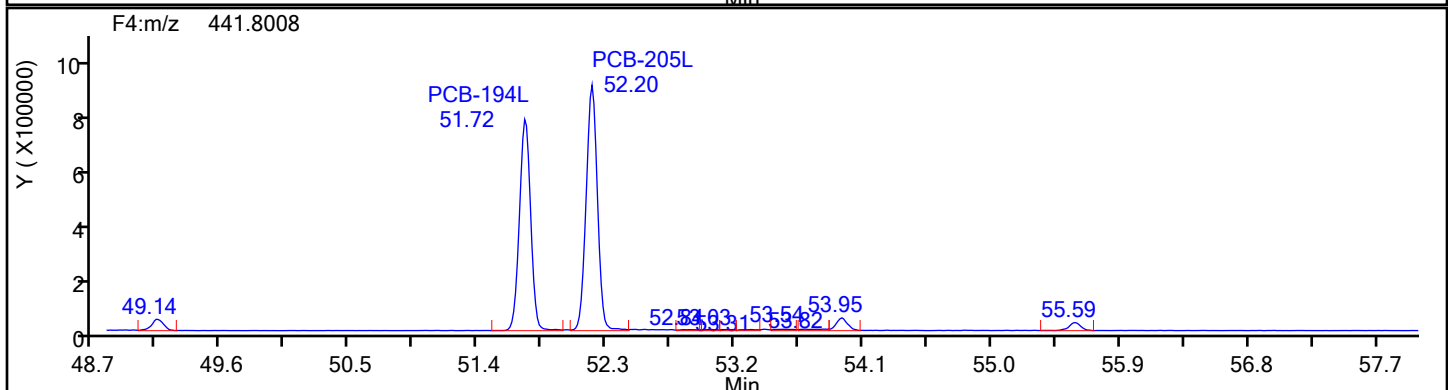
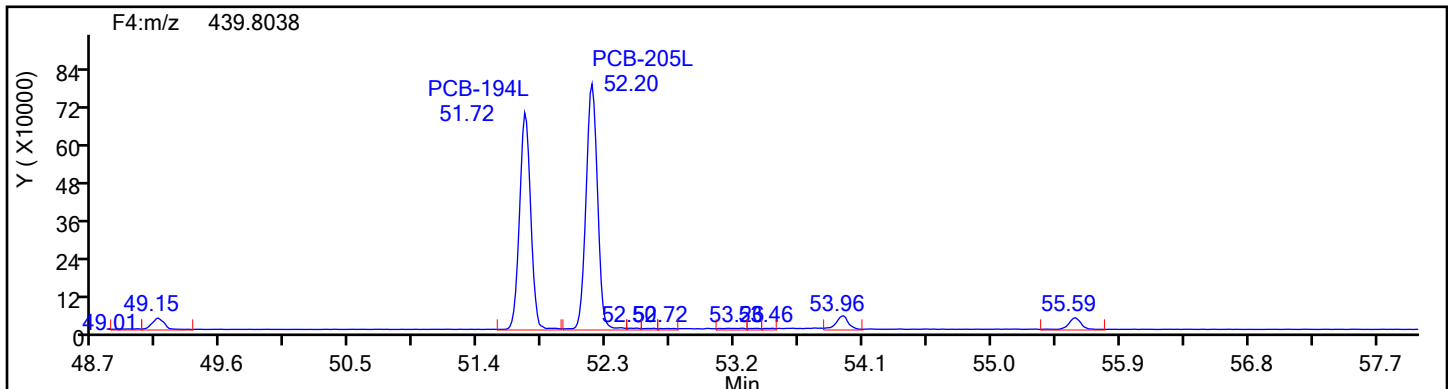
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

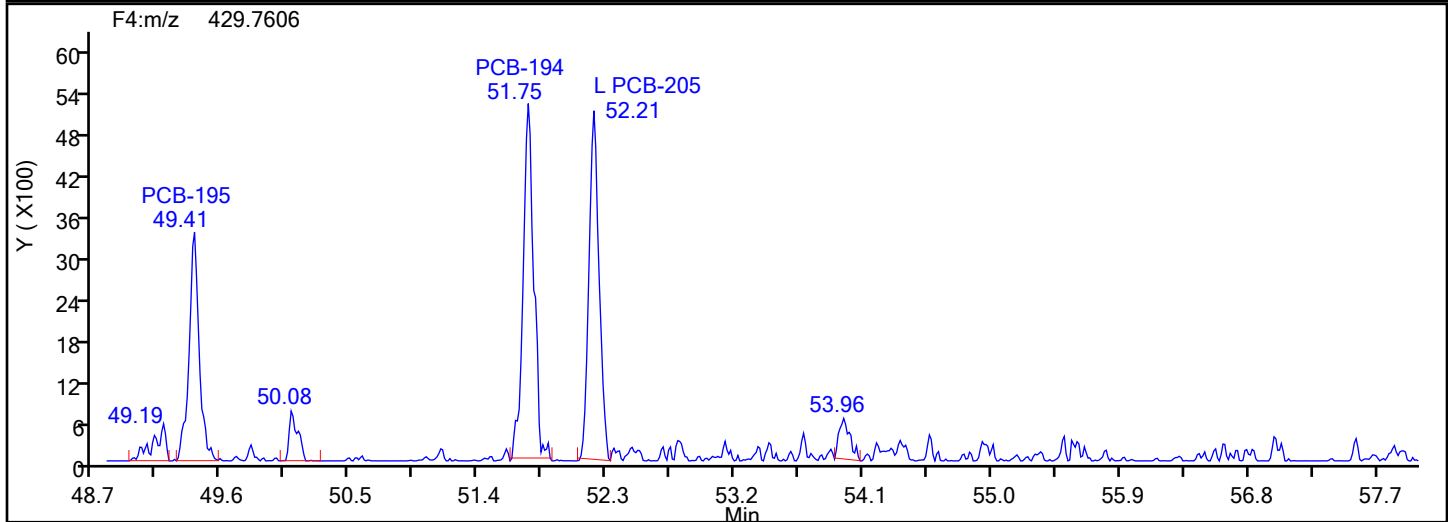
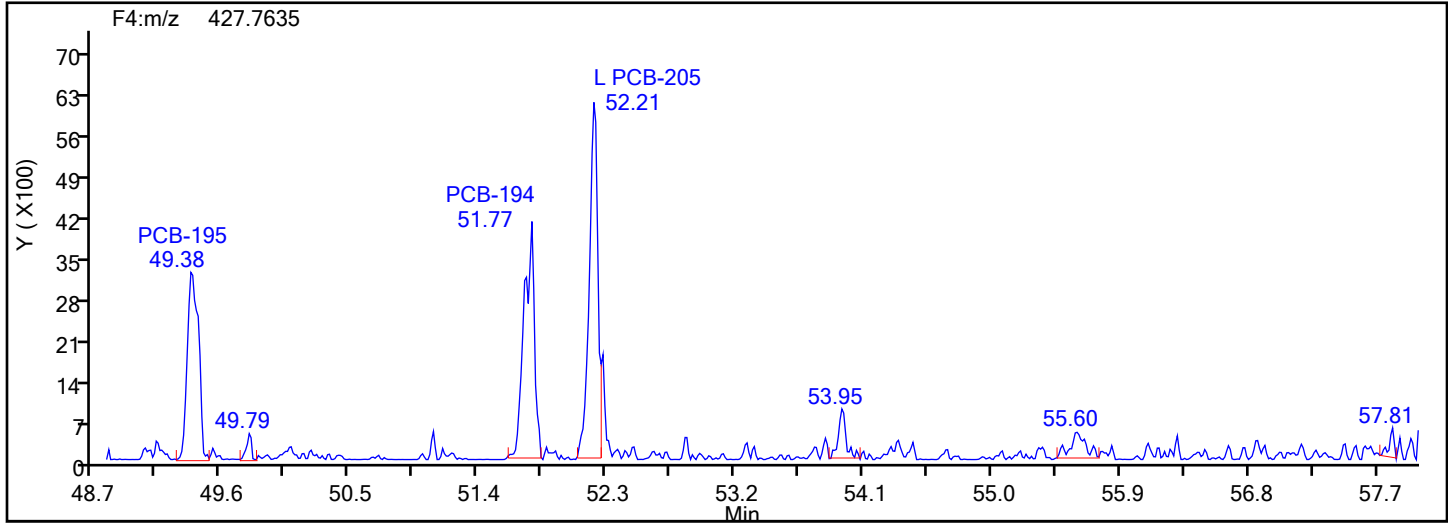
Worklist#: 87130

Sample Line#: 1

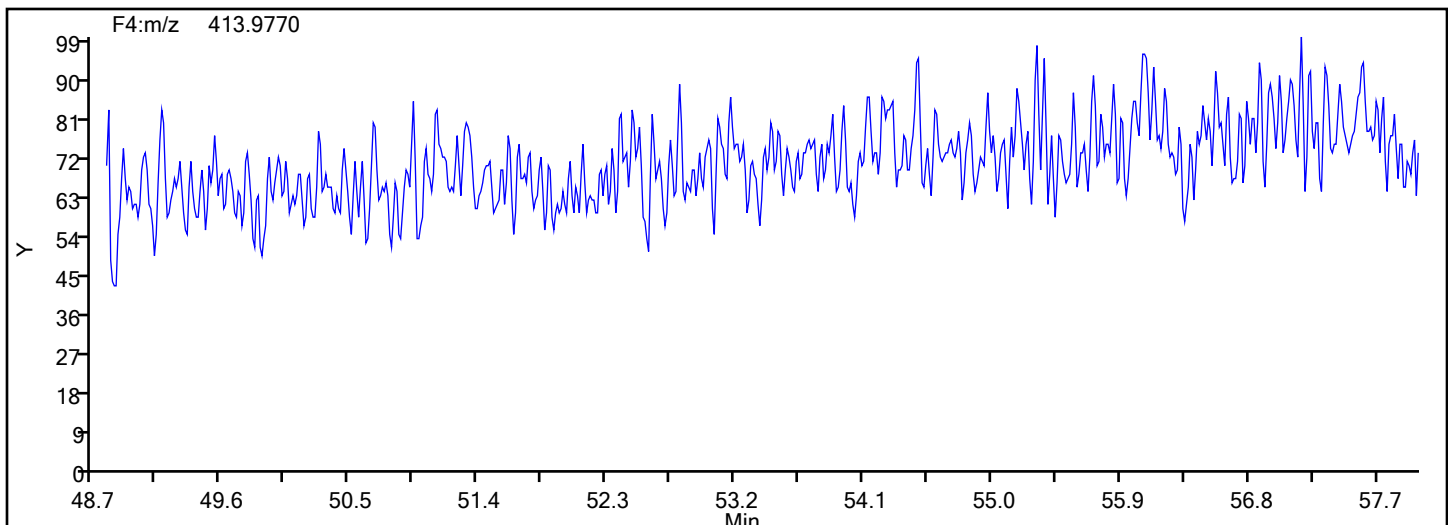
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



## OcPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

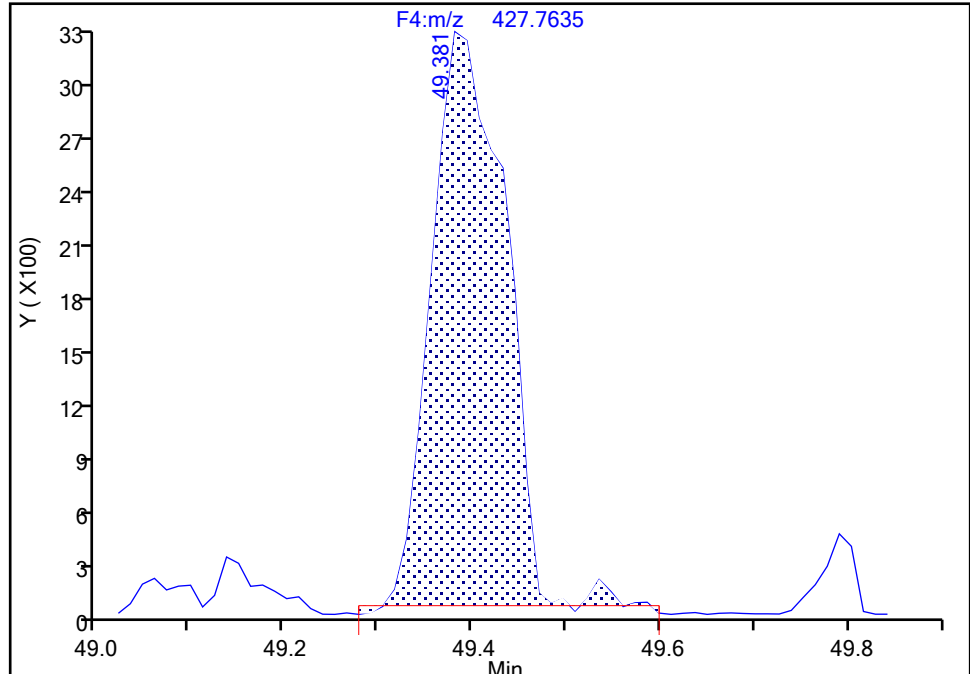
Detector F4(49.20 :57.50 )

**PCB-195, CAS: 52663-78-2**

Signal: 1

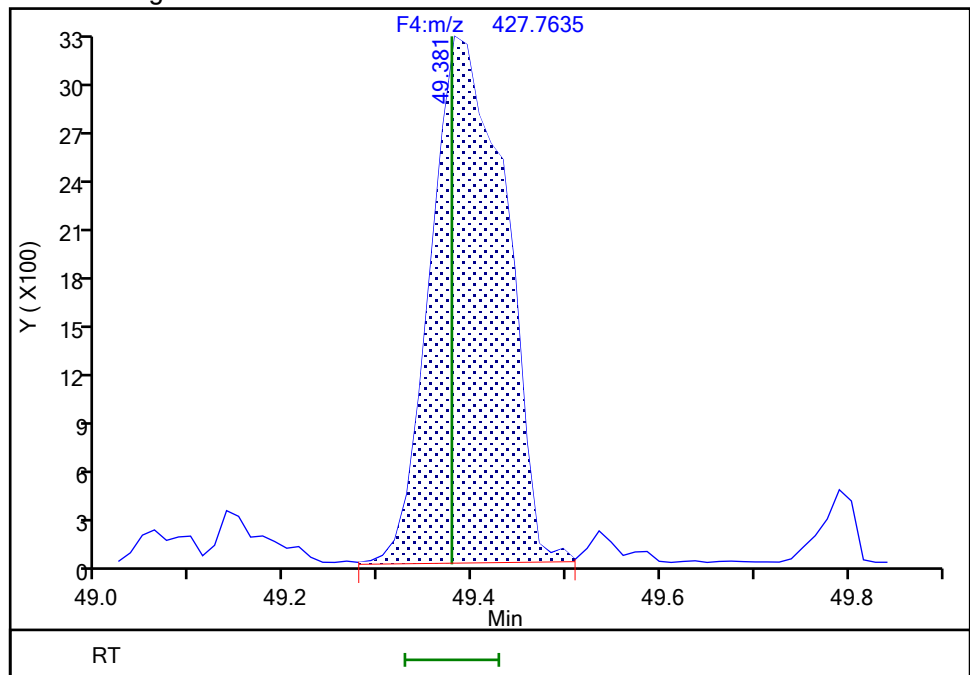
RT: 49.38  
Area: 17206  
Amount: 0.436356  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.38  
Area: 17759  
Amount: 0.448033  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:33:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

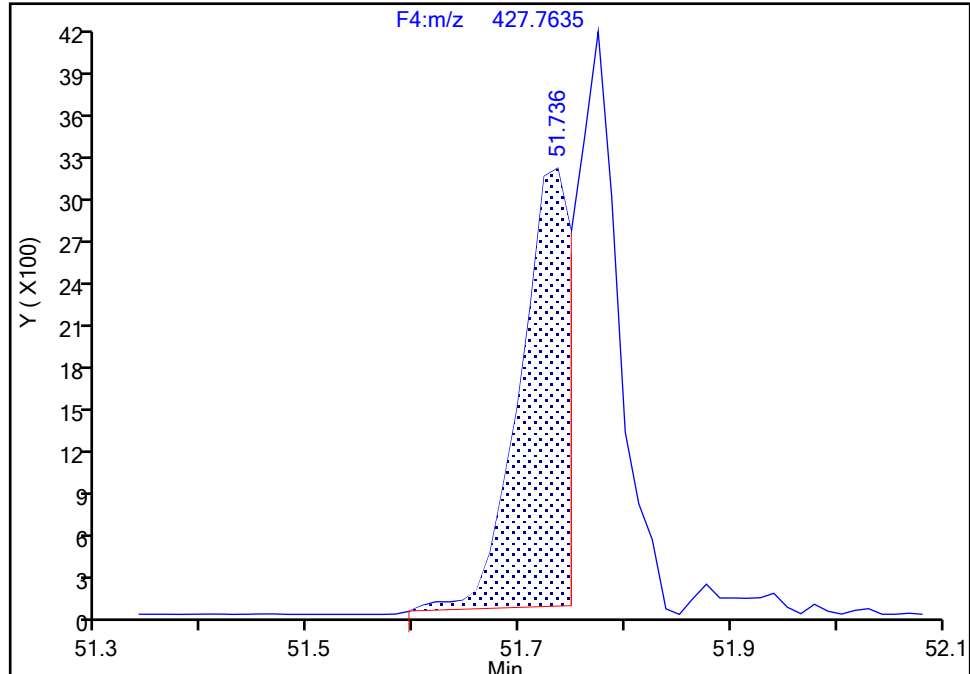
Detector F4(49.20 :57.50 )

PCB-194, CAS: 35694-08-7

Signal: 1

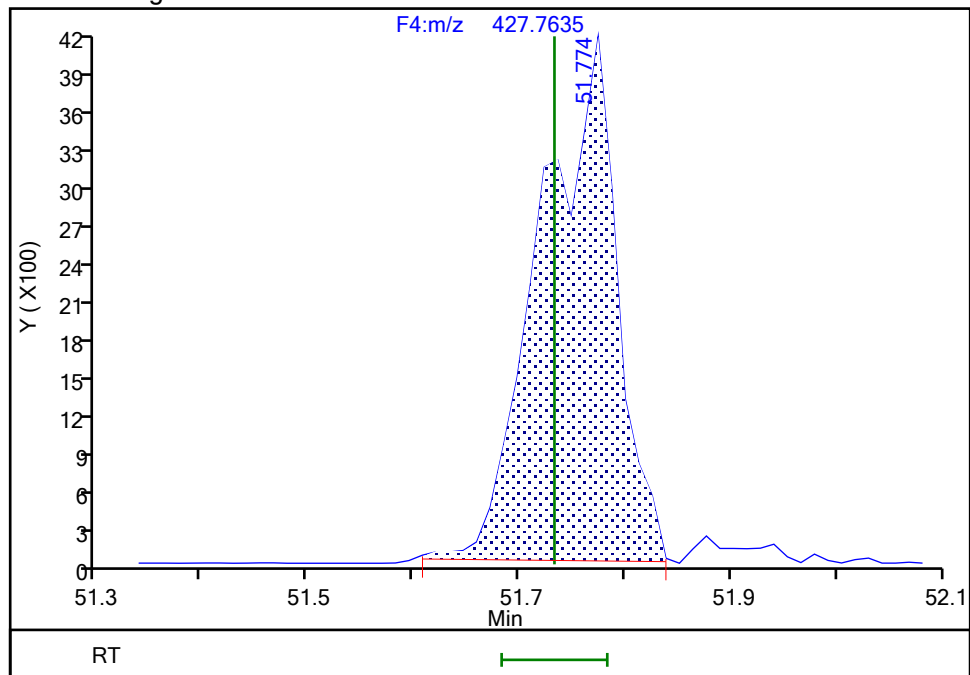
RT: 51.74  
Area: 9636  
Amount: 0.438844  
Amount Units: pg/ul

## Processing Integration Results



RT: 51.77  
Area: 20698  
Amount: 0.530521  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

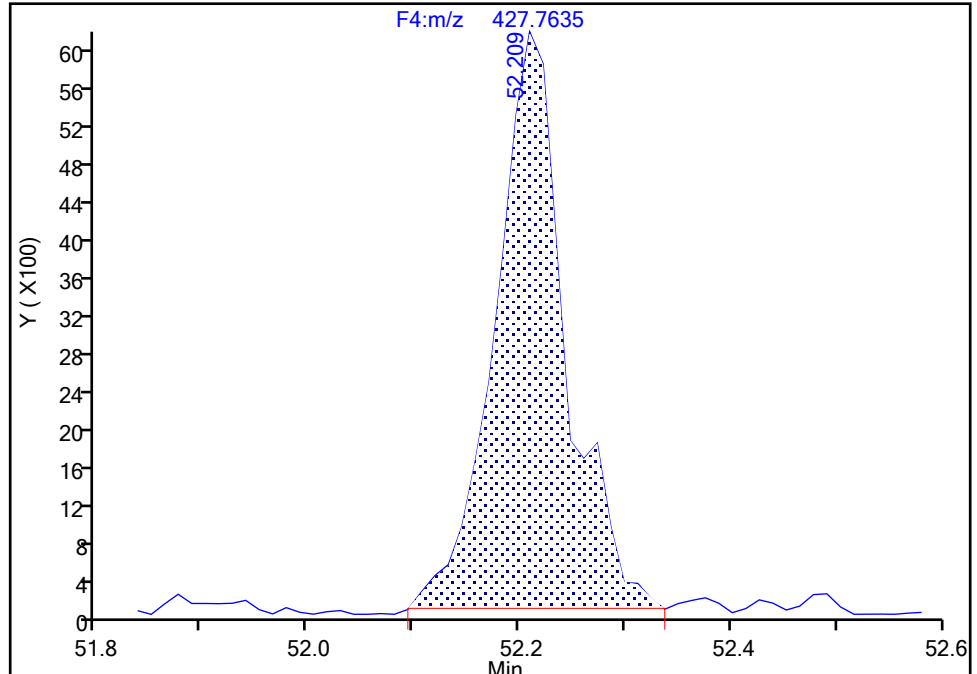
Detector F4(49.20 :57.50 )

PCB-205, CAS: 74472-53-0

Signal: 1

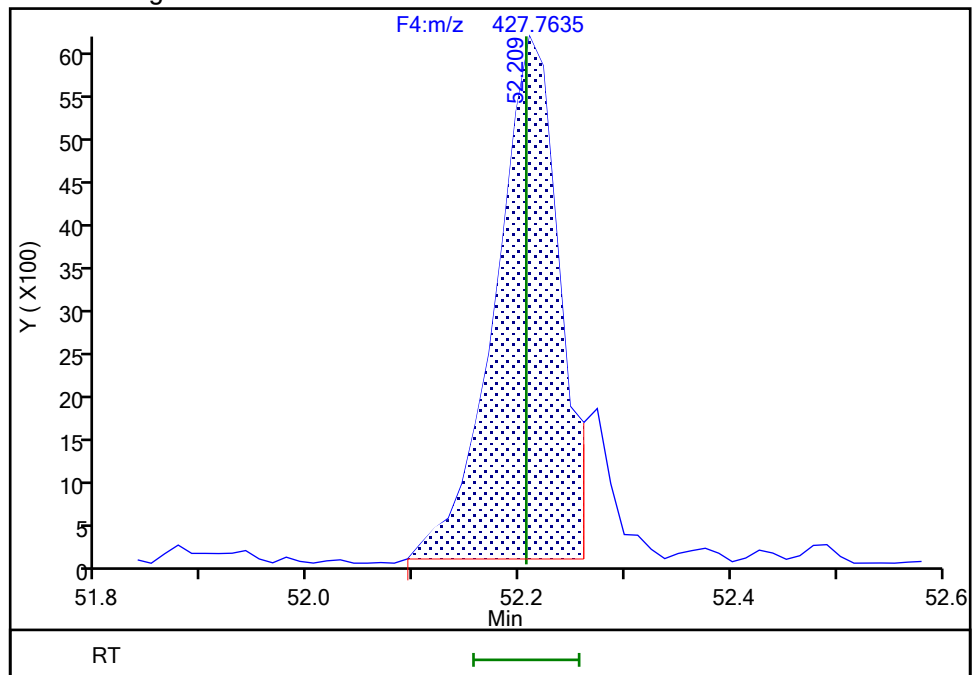
RT: 52.21  
Area: 28510  
Amount: 0.514801  
Amount Units: pg/ul

## Processing Integration Results



RT: 52.21  
Area: 25496  
Amount: 0.502033  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:38:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

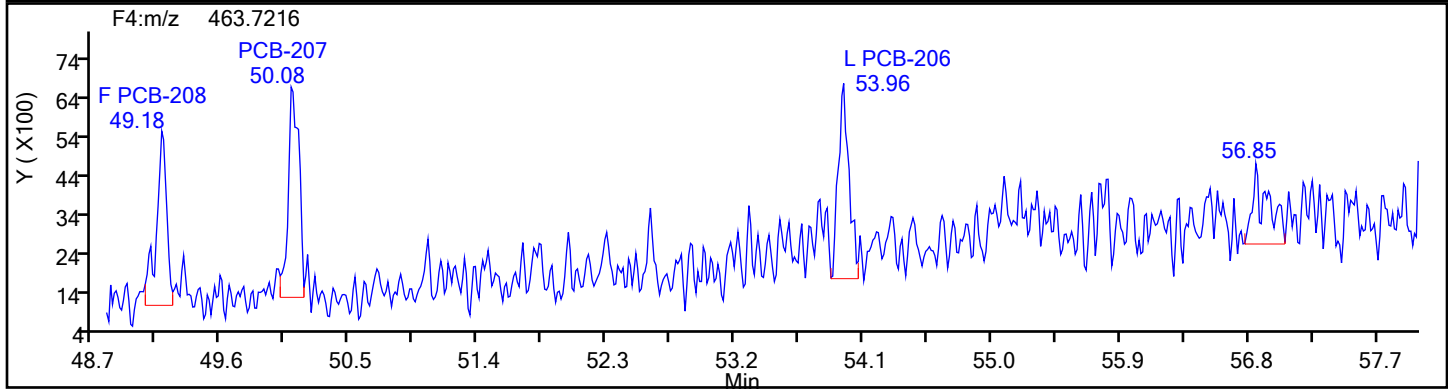
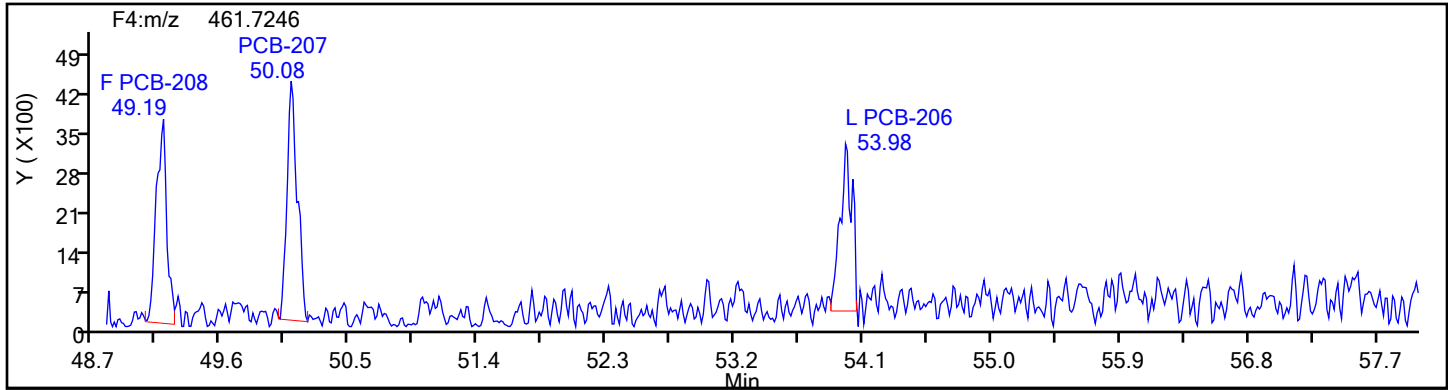
Worklist#: 87130

Sample Line#: 1

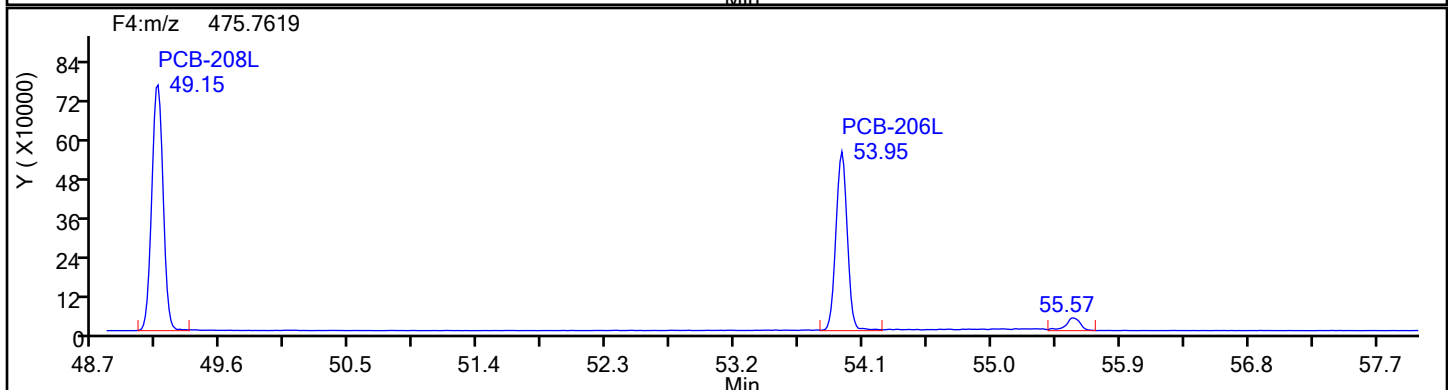
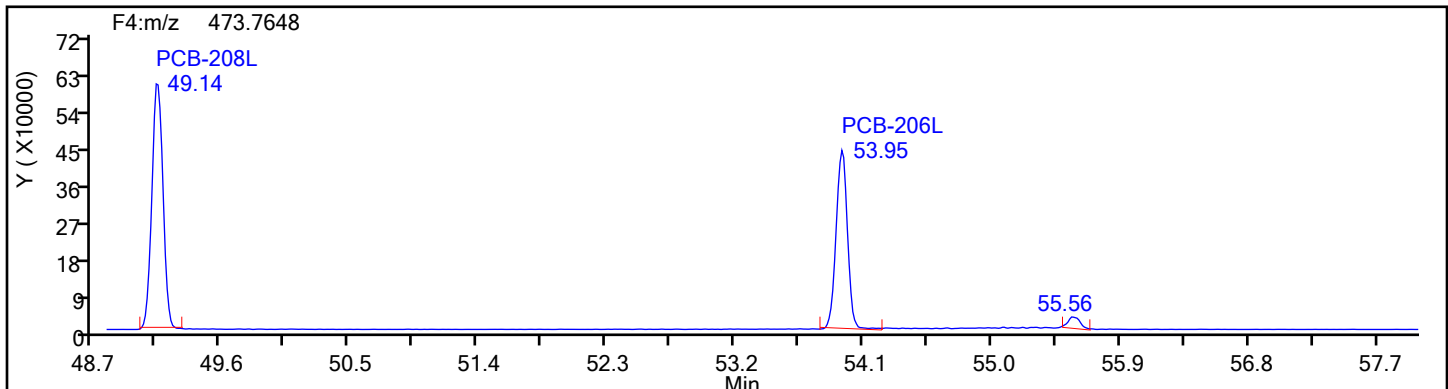
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

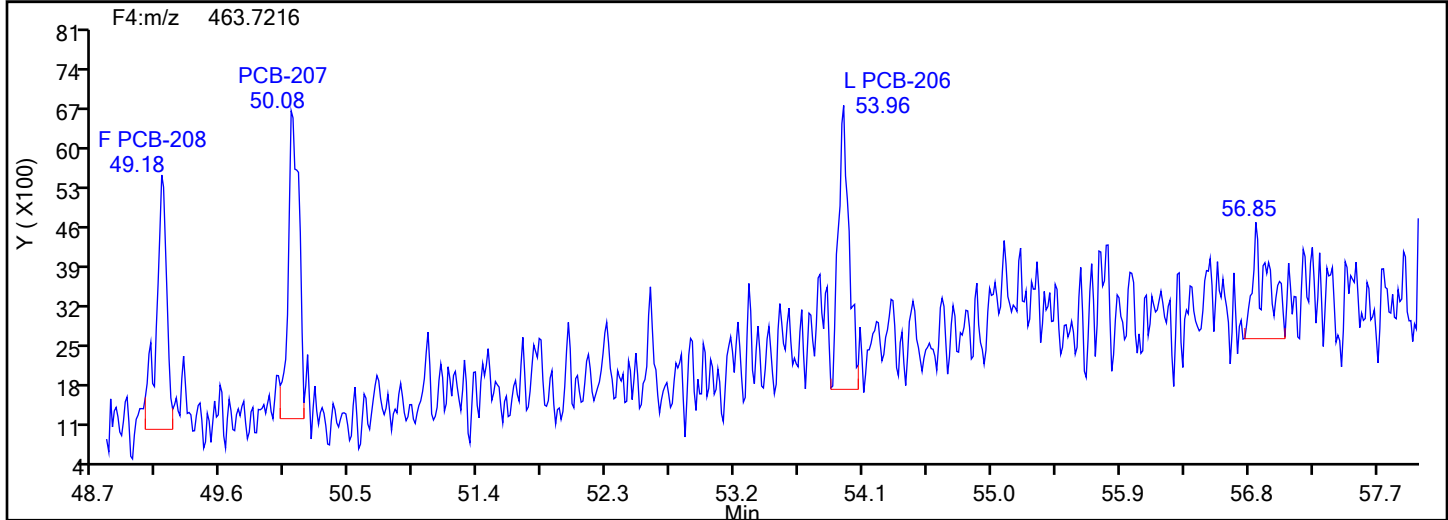
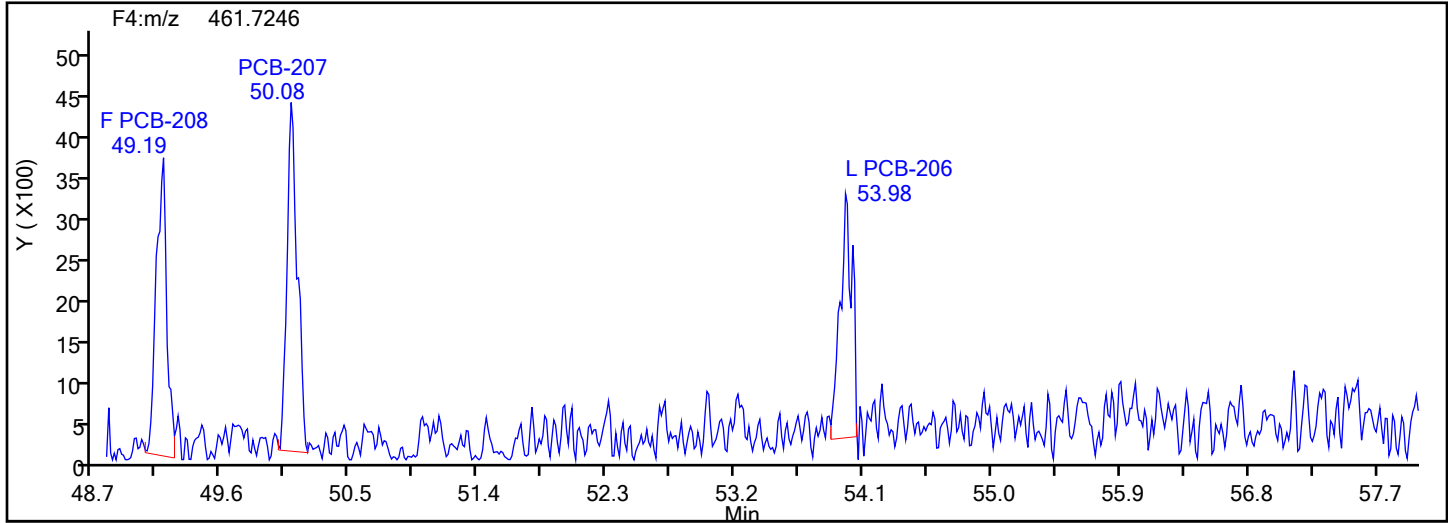
Worklist#: 87130

Sample Line#: 1

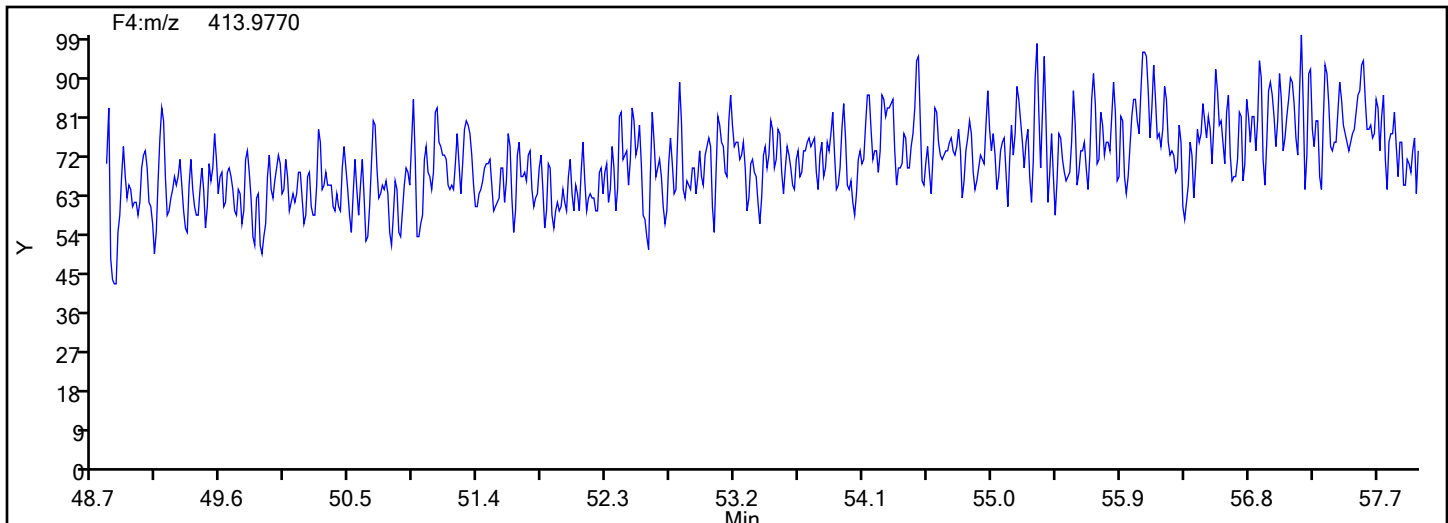
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



## NoPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

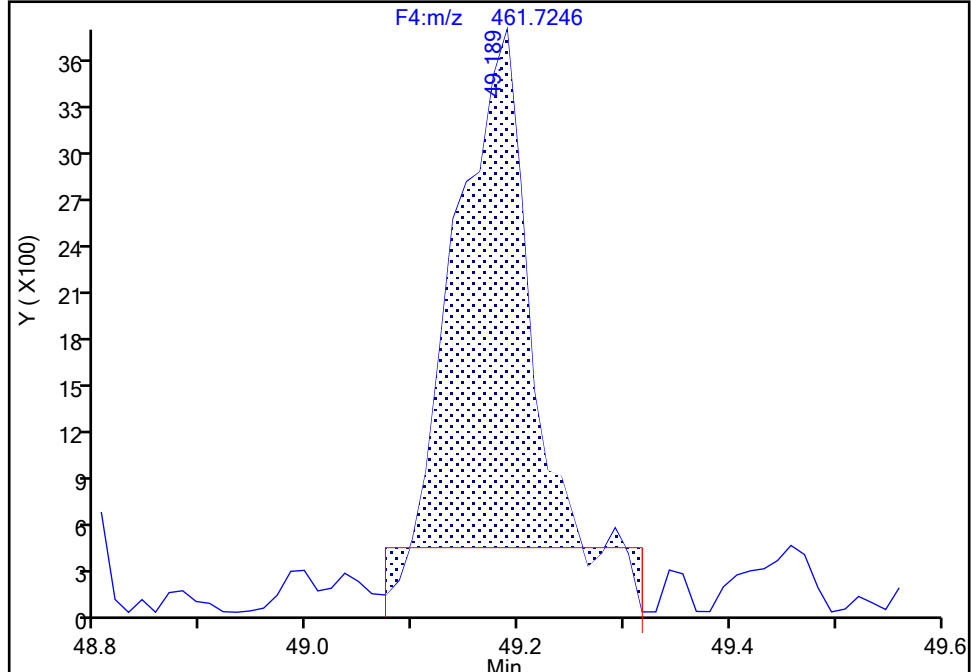
Detector F4(49.20 :57.50 )

PCB-208, CAS: 52663-77-1

Signal: 1

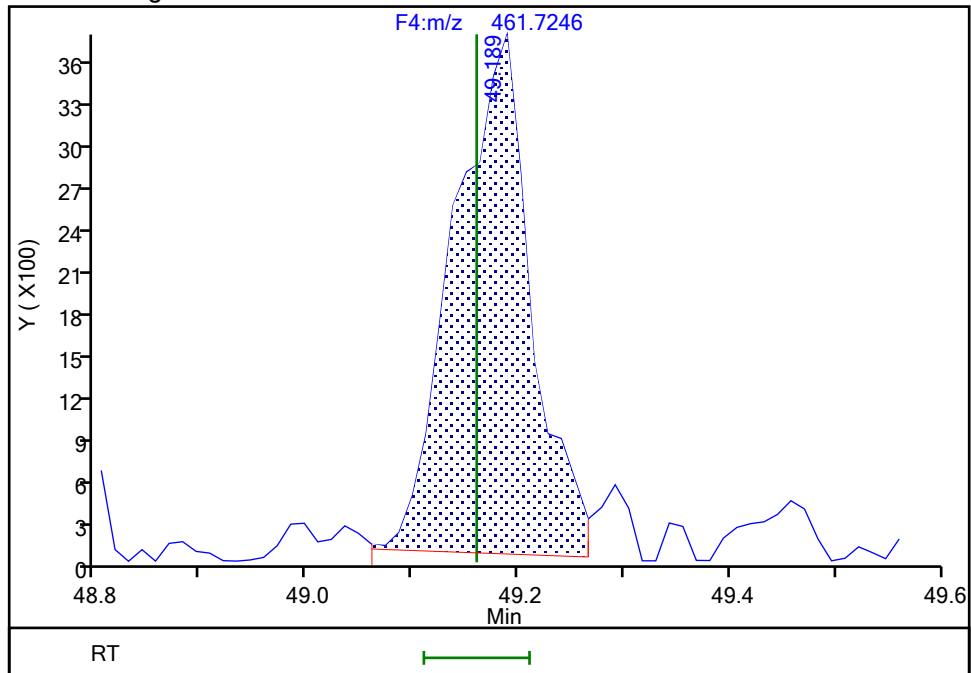
RT: 49.19  
Area: 14249  
Amount: 0.339411  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.19  
Area: 18598  
Amount: 0.487524  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:38:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

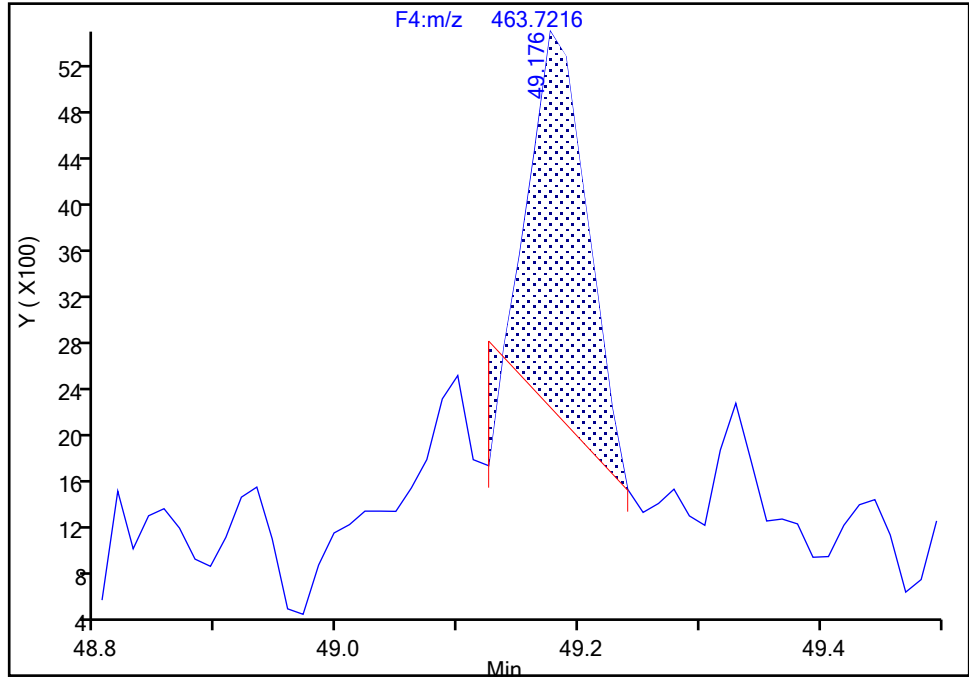
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

PCB-208, CAS: 52663-77-1

Signal: 2

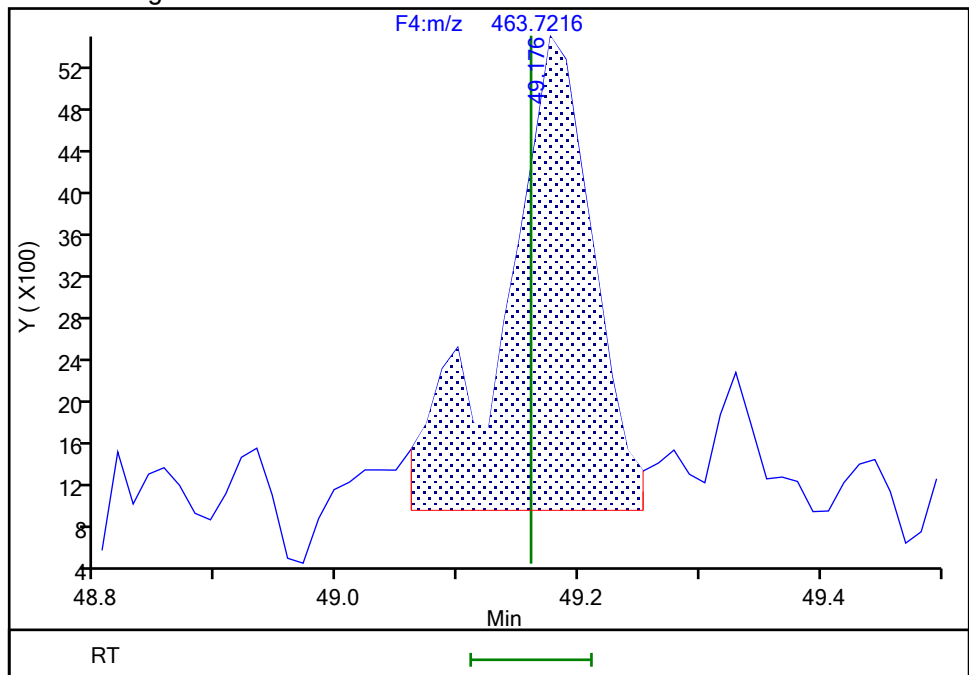
RT: 49.18  
Area: 10262  
Amount: 0.339411  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.18  
Area: 22997  
Amount: 0.487524  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:38:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024027  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

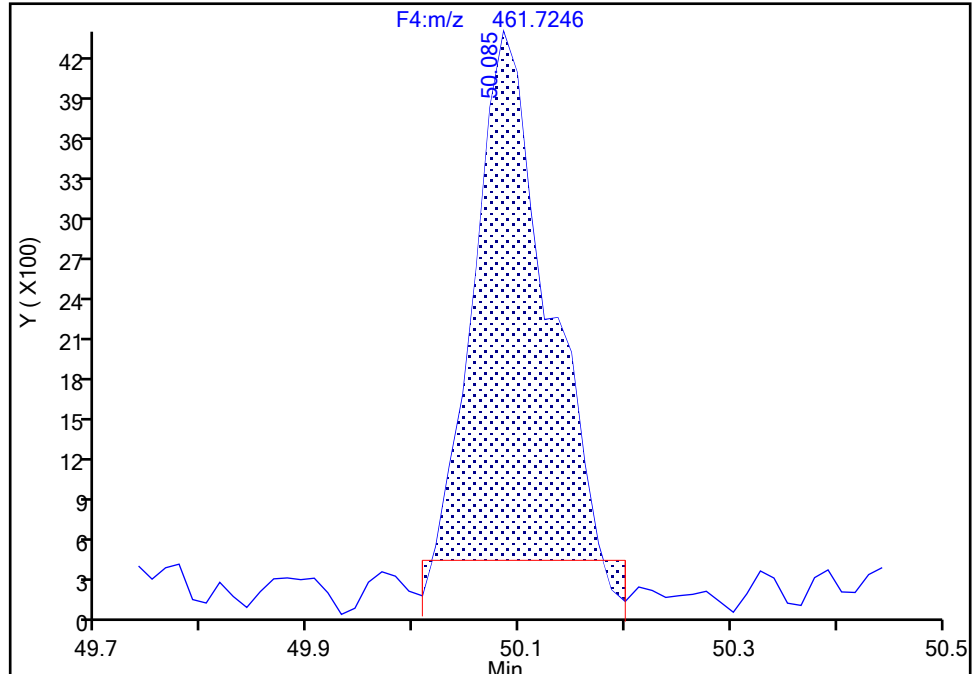
Detector F4(49.20 :57.50 )

PCB-207, CAS: 52663-79-3

Signal: 1

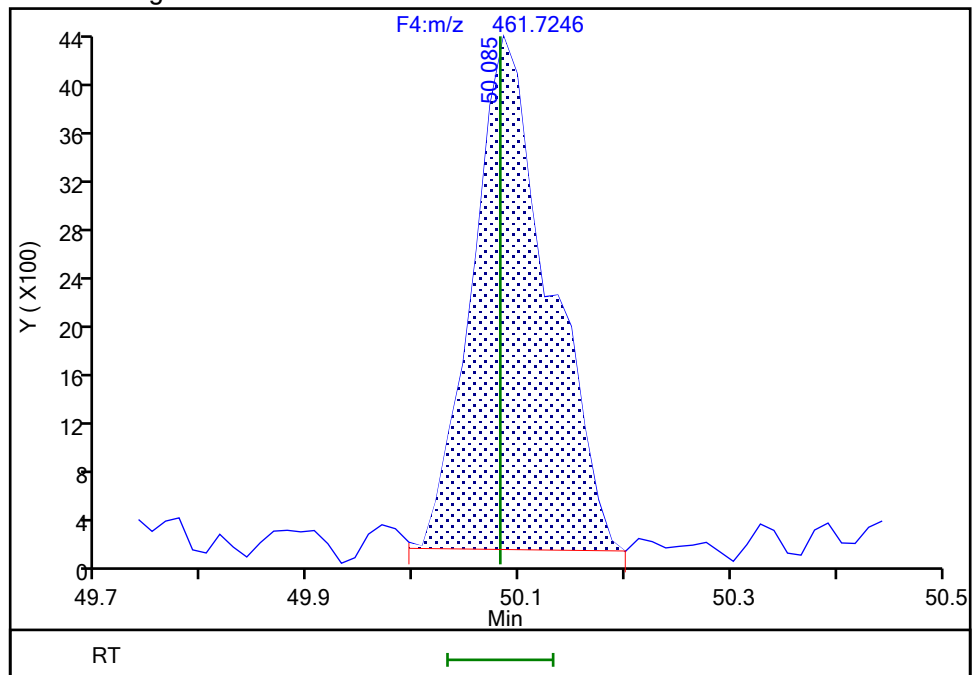
RT: 50.08  
Area: 17897  
Amount: 0.469716  
Amount Units: pg/ul

## Processing Integration Results



RT: 50.08  
Area: 21467  
Amount: 0.558340  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

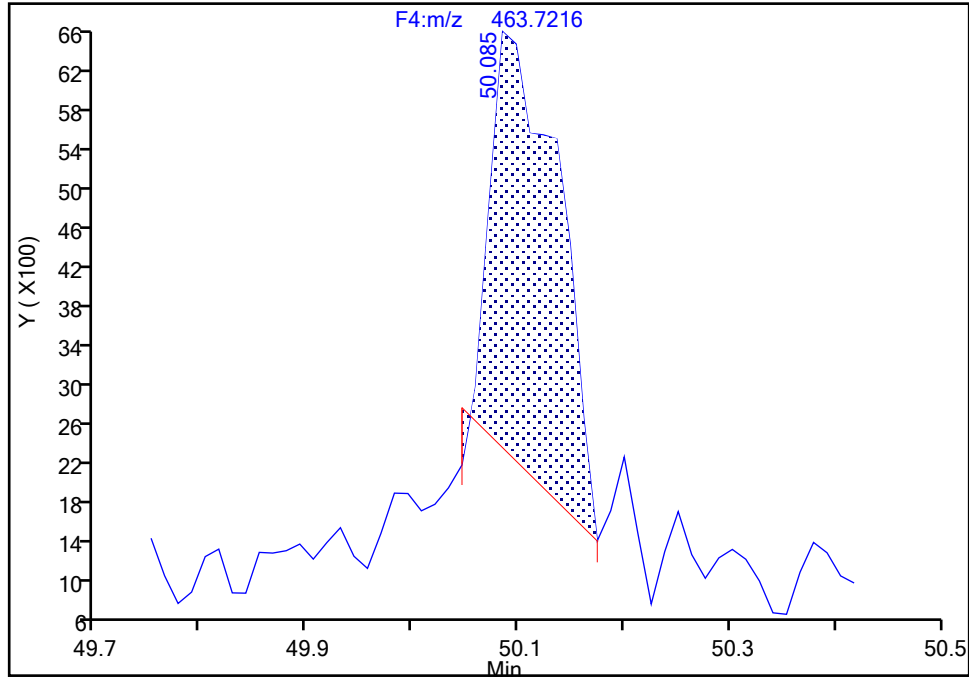
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

## PCB-207, CAS: 52663-79-3

Signal: 2

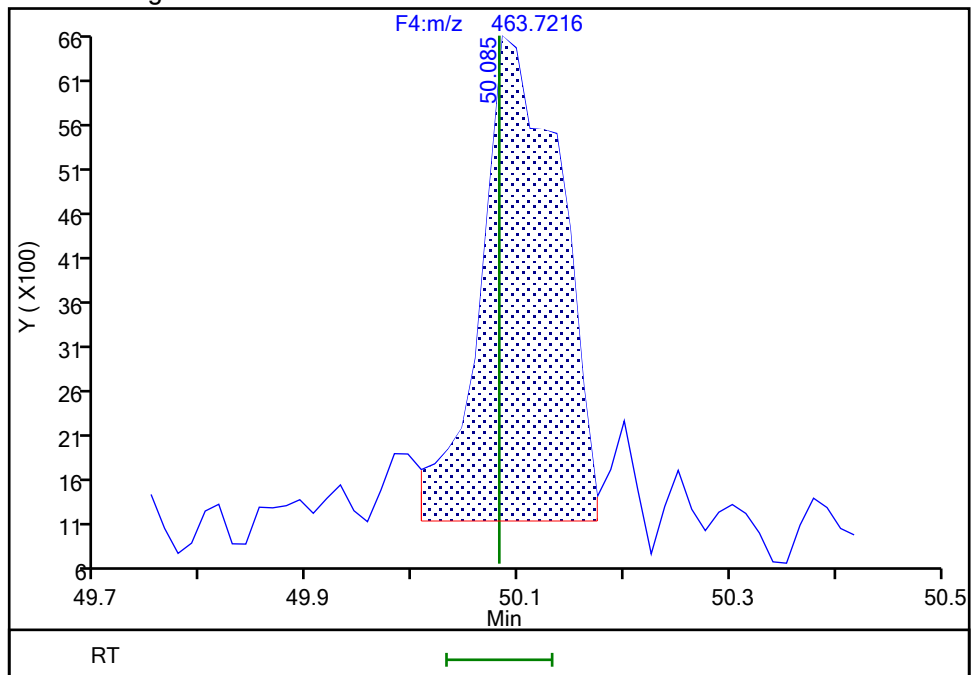
RT: 50.08  
Area: 19436  
Amount: 0.469716  
Amount Units: pg/ul

## Processing Integration Results



RT: 50.08  
Area: 28459  
Amount: 0.558340  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:05:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-F-04029  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Instrument ID: D2D

Lims ID: IC L1

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

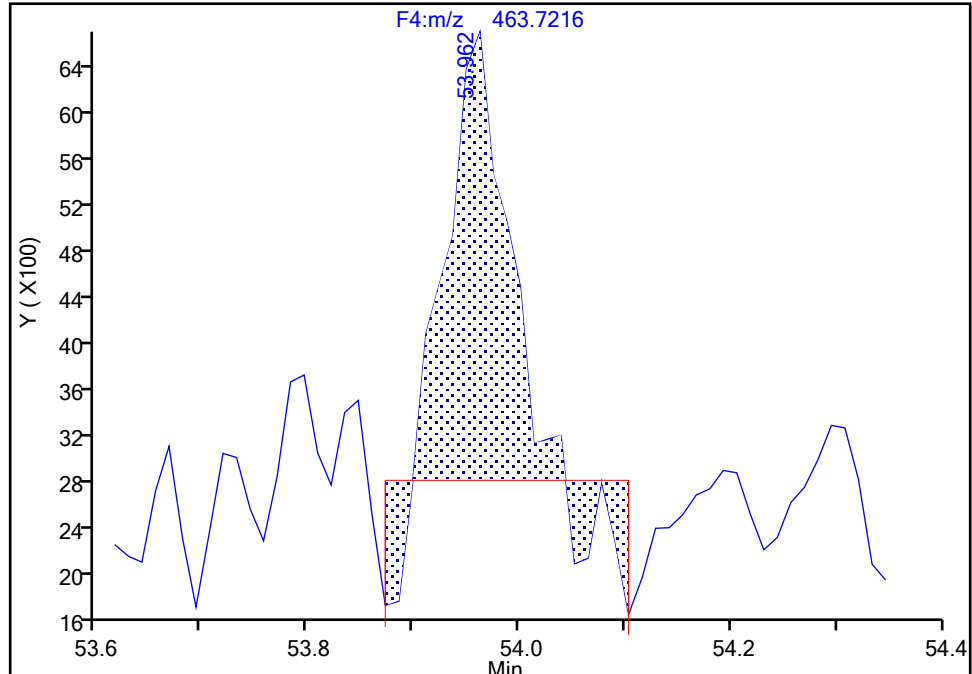
Detector F4(49.20 :57.50 )

**PCB-206, CAS: 40186-72-9**

Signal: 2

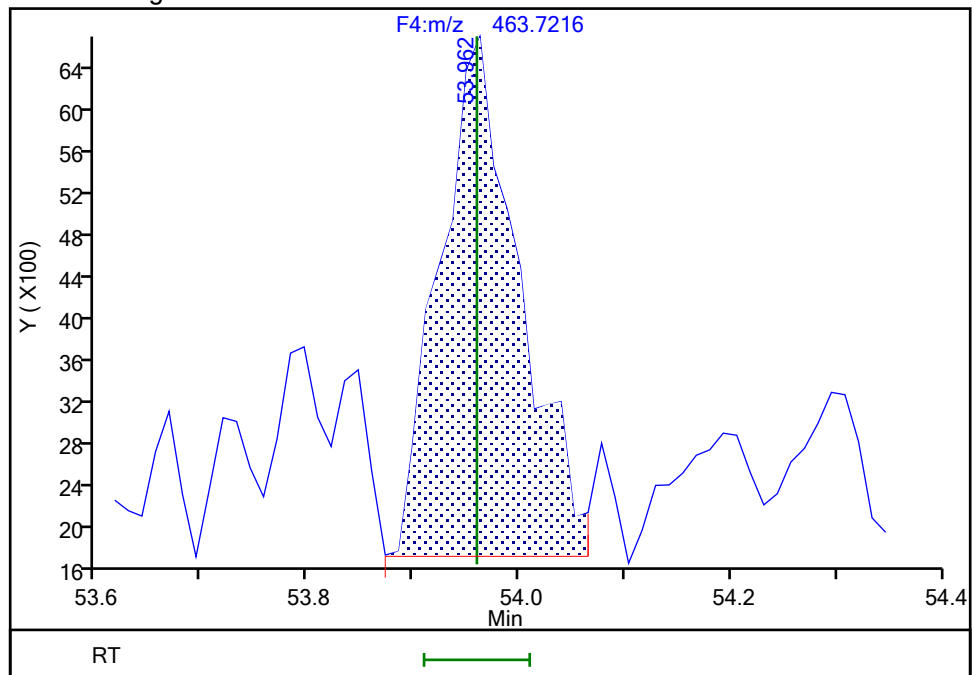
RT: 53.96  
Area: 12199  
Amount: 0.382448  
Amount Units: pg/ul

## Processing Integration Results



RT: 53.96  
Area: 26155  
Amount: 0.591963  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 15:39:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

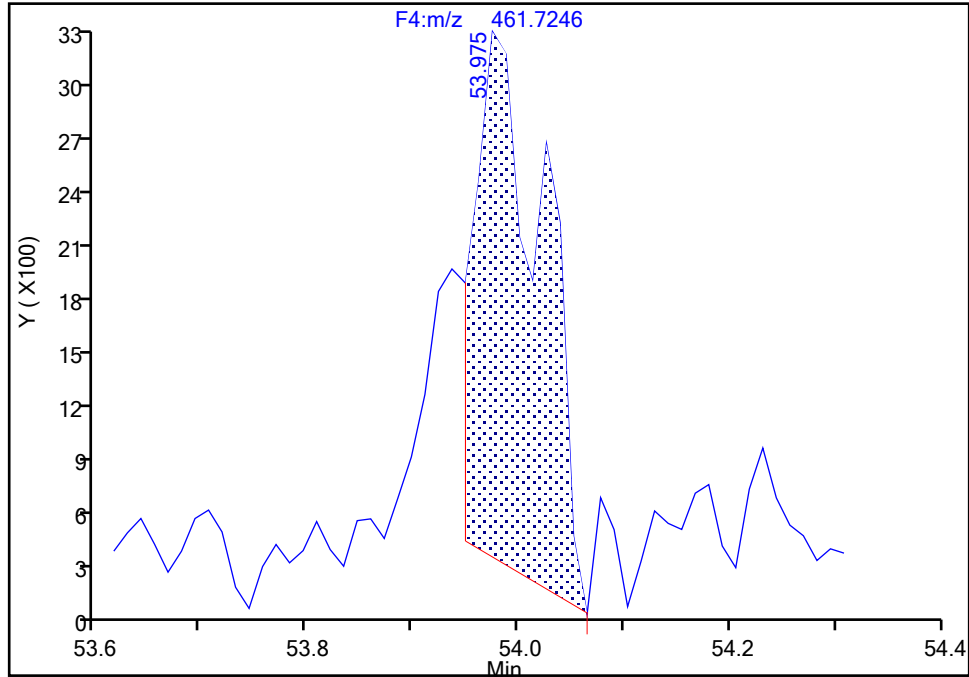
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d  
Injection Date: 31-May-2024 14:36:00 Instrument ID: D2D  
Lims ID: IC L1  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

PCB-206, CAS: 40186-72-9

Signal: 1

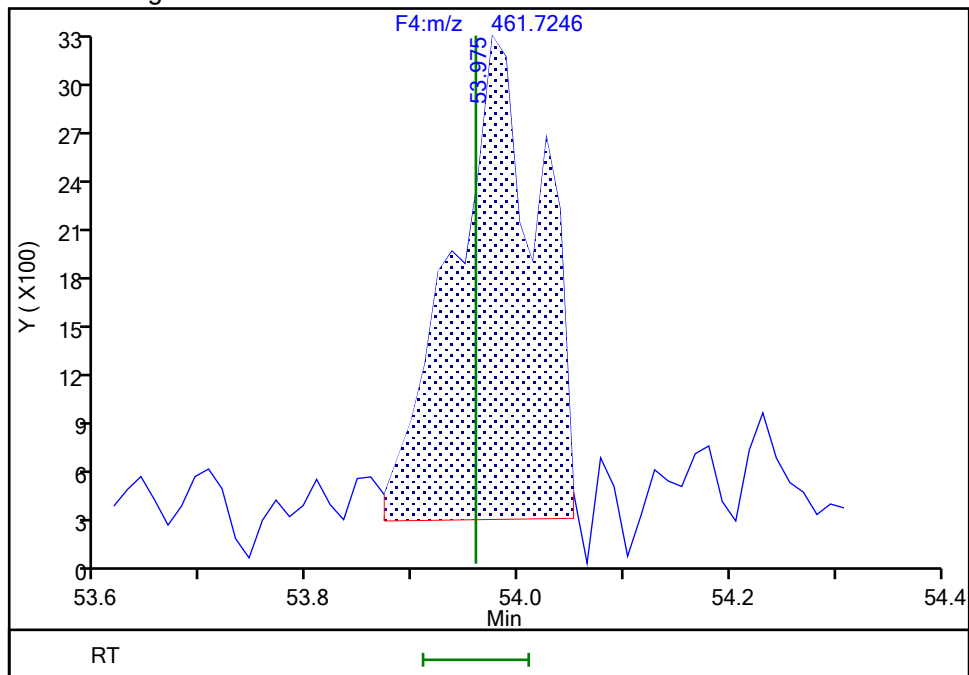
RT: 53.98  
Area: 13091  
Amount: 0.382448  
Amount Units: pg/ul

## Processing Integration Results



RT: 53.98  
Area: 17294  
Amount: 0.591963  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:29:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F4  
9/6/2024 3:53:39 PM  
4031

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

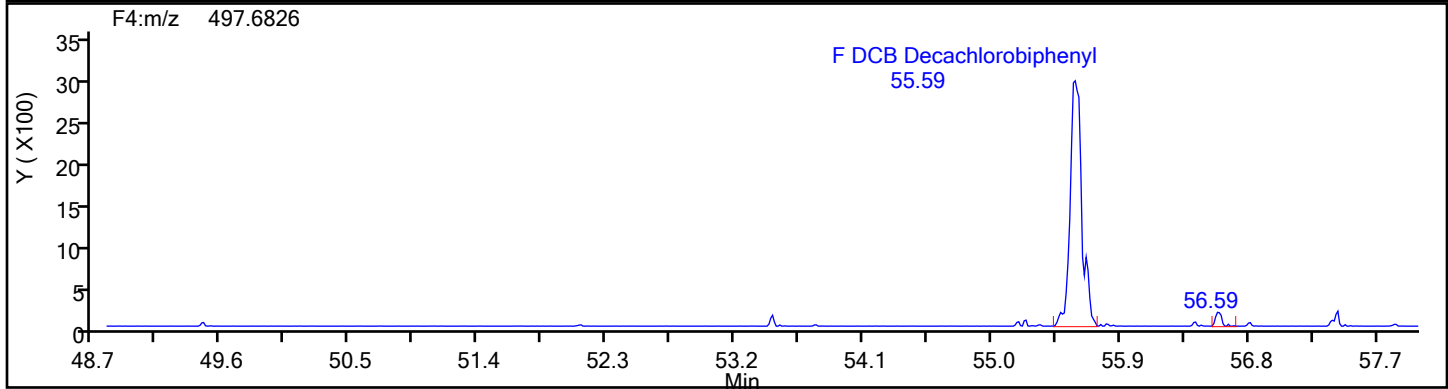
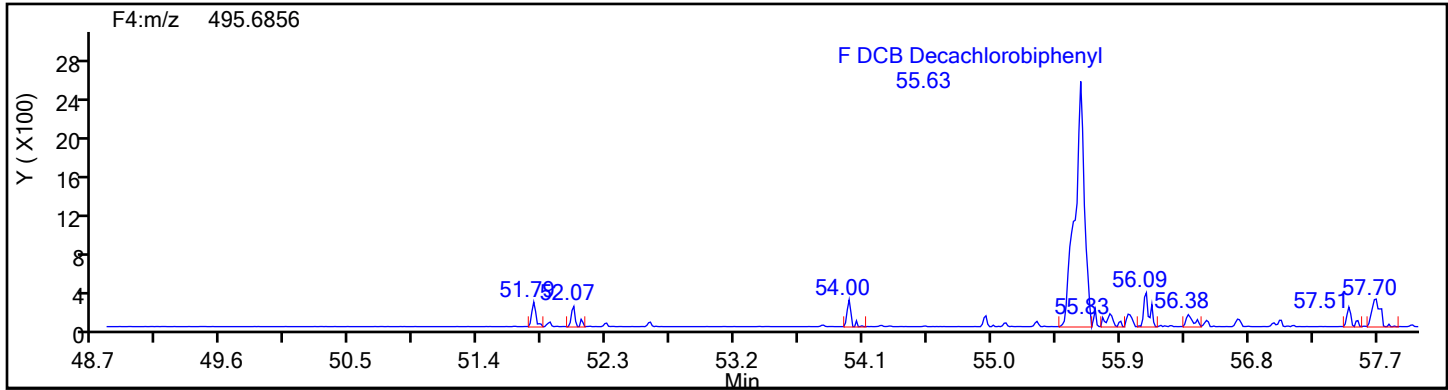
Worklist#: 87130

Sample Line#: 1

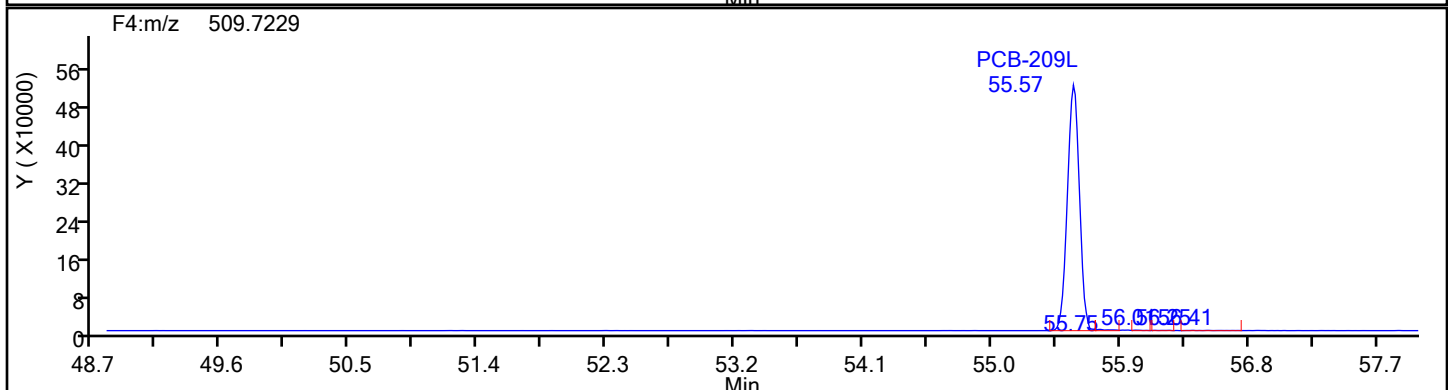
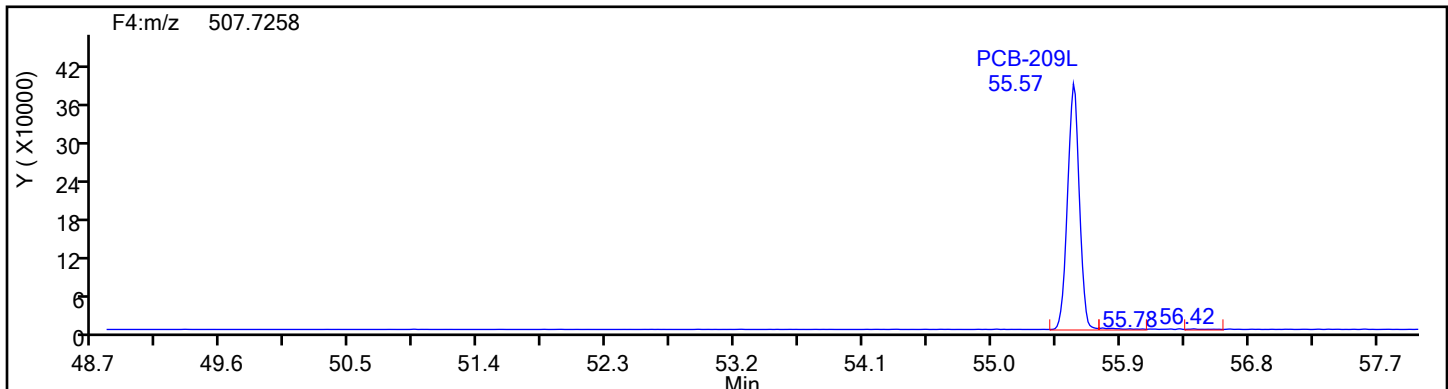
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi1a.d

Injection Date: 31-May-2024 14:36:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

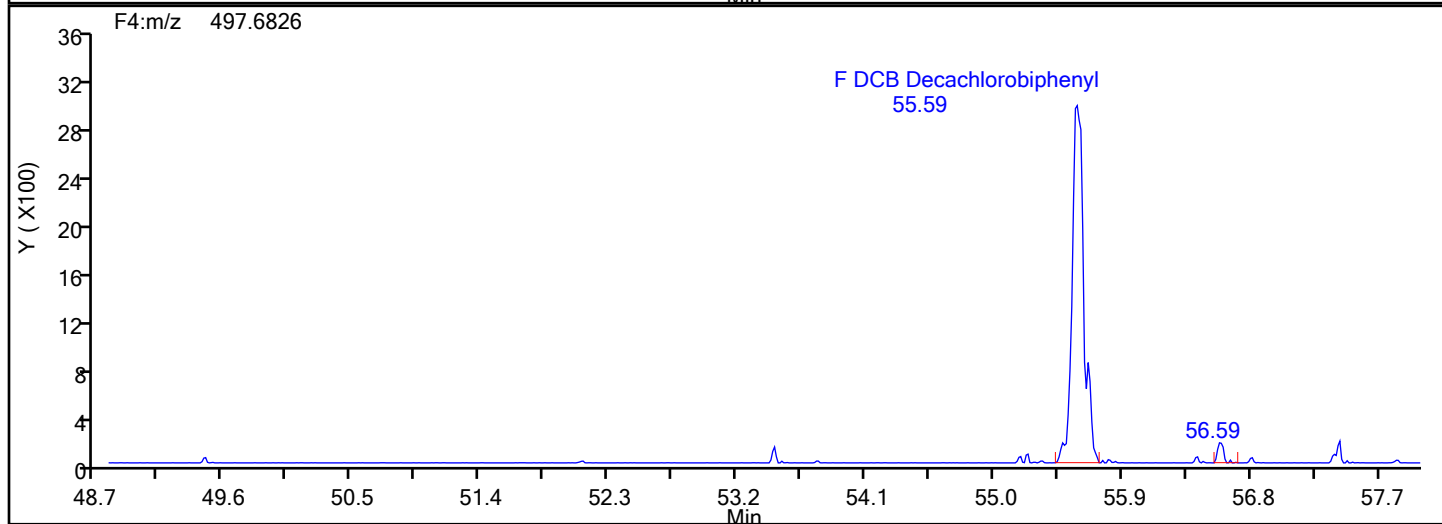
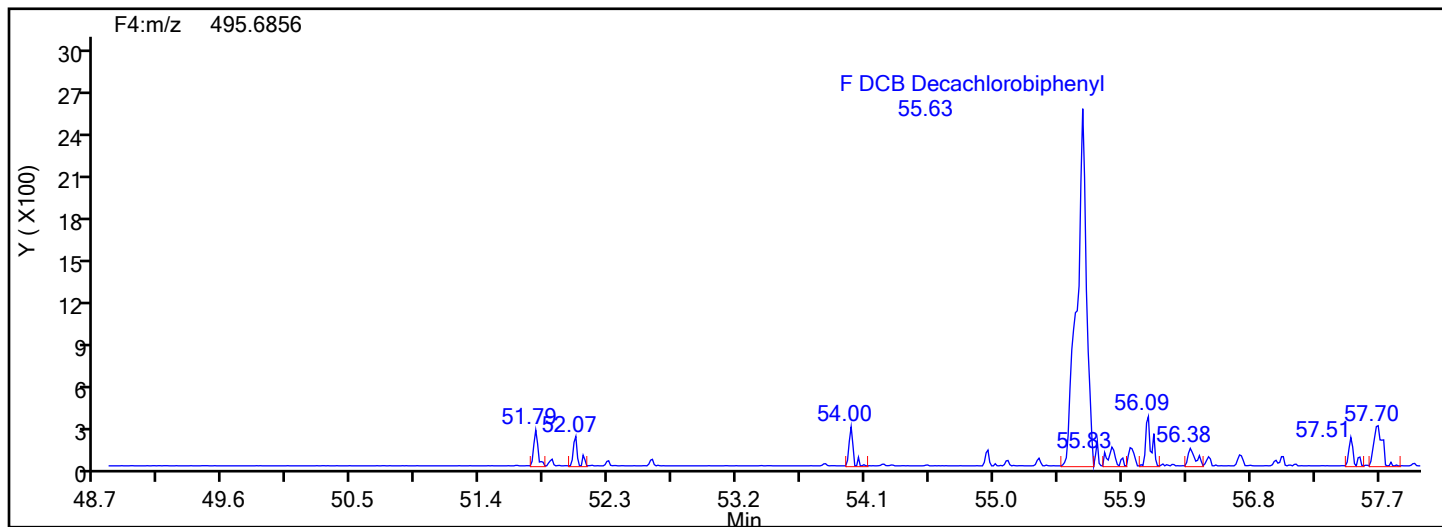
Worklist#: 87130

Sample Line#: 1

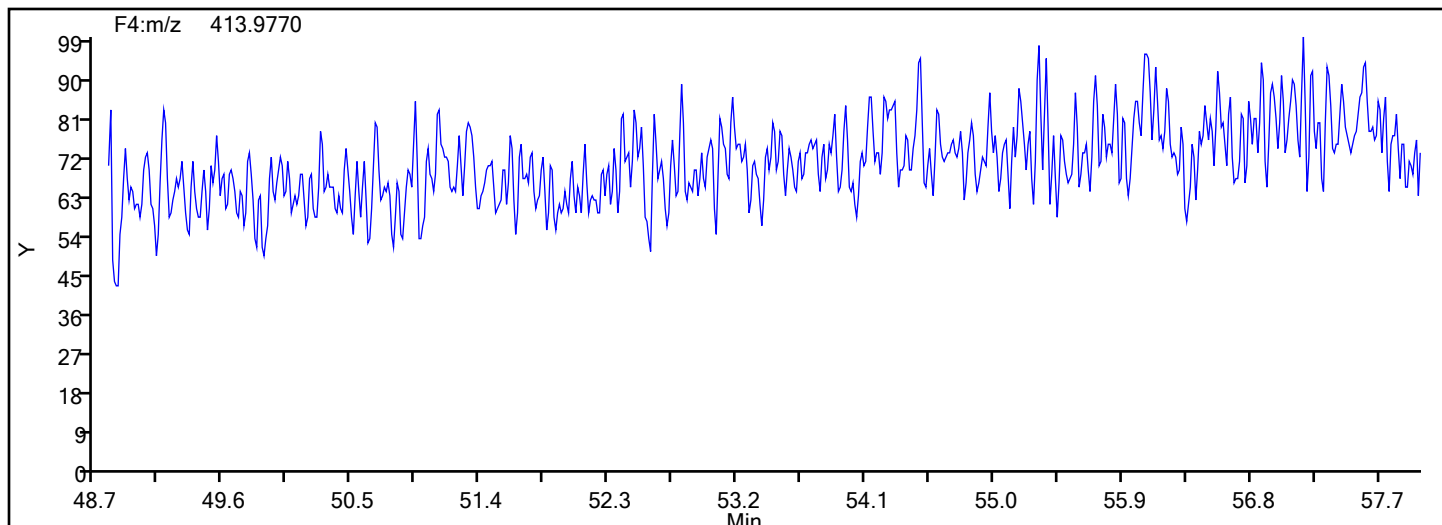
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Lims ID: IC L2  
Client ID:  
Sample Type: IC Calib Level: 2  
Inject. Date: 31-May-2024 16:53:00 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-002  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:26:42 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:07:23

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					2.962	2.962	0.0112	0.0112		
D PCB-1L	11:38	13411930	3.16	1.6108	99.9	99.9	0.2949	0.2949	99.88	
D PCB-3L	13:47	13166477	3.24	1.5891	99.4	99.4	0.2989	0.2989	99.39	
PCB-1	11:39	167653	3.15	1.2191	1.025	1.025	0.0100	0.0100	103	
PCB-2	13:38	152137	2.98	1.1805	0.9698	0.9698	0.0114	0.0114	96.98	
PCB-3	13:48	155451	3.08	1.2206	0.9673	0.9673	0.0122	0.0122	96.73	
S Total Dichlorobiphenyls					11.7	11.4	0.004935	0.004935		RQ
D PCB-4L	14:03	5442766	1.62	0.6475	100.8	100.8	0.0919	0.0919	101	
* PCB-9L	16:01	8336299	1.63		100.0	100.0				
D PCB-15L	19:56	8819361	1.63	1.0789	98.1	98.1	0.0552	0.0552	98.05	
PCB-4	14:04	71281	1.69	1.2818	1.022	1.022	0.005795	0.005795	102	
PCB-10	14:14	90939	1.57	1.3149	0.9699	0.9699	0.005163	0.005163	96.99	
PCB-9	16:01	101769	1.52	1.4224	1.003	1.003	0.004772	0.004772	100	
PCB-7	16:12	90721	1.56	1.4134	0.990	0.9001	0.004803	0.004803	99.01	RQ
PCB-6	16:26	97620	1.56	1.5421	0.9891	0.8877	0.004402	0.004402	98.91	RQM
PCB-5	16:45	93073	1.75	1.3395	0.9744	0.9744	0.005068	0.005068	97.44	
PCB-8	16:52	108520	1.52	1.5889	0.9578	0.9578	0.004273	0.004273	95.78	
PCB-14	18:30	95706	1.69	1.4025	0.9570	0.9570	0.004840	0.004840	95.70	
PCB-11	19:20	75686	1.56	1.2951	0.9055	0.8195	0.005242	0.005242	90.55	RQ
PCB-12	19:38	181643	1.57	1.3358	1.907	1.907	0.005082	0.005082	95.34	
PCB-13 (C12)	19:38	181643	1.57	1.3358	1.907	1.907	0.005082	0.005082	95.34	
PCB-15	19:57	113904	1.54	1.2903	1.001	1.001	0.004844	0.004844	100	
S Total Trichlorobiphenyls					23.6	23.5	0.0336	0.0336		RQ
D PCB-19L	17:09	3424036	1.04	0.6285	102.9	102.9	0.4510	0.4510	103	
* PCB-32L	20:24	5295691	1.10		100.0	100.0				
* PCB-31L	22:40	15100361	1.04		100.0	100.0				
D PCB-37L	26:57	13255798	1.07	0.8749	100.3	100.3	0.1254	0.1254	100	
PCB-19	17:10	37931	1.09	1.2809	0.8649	0.8649	0.0107	0.0107	86.49	
PCB-18	19:00	119625	1.07	1.7652	1.979	1.979	0.007794	0.007794	98.96	
PCB-30 (C18)	19:00	119625	1.07	1.7652	1.979	1.979	0.007794	0.007794	98.96	
PCB-17	19:27	43052	1.03	1.2430	1.012	1.012	0.0111	0.0111	101	
PCB-27	19:40	61773	1.11	1.8327	0.9844	0.9844	0.007507	0.007507	98.44	
PCB-24	19:48	55539	1.02	1.6777	0.9668	0.9668	0.008201	0.008201	96.68	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:54	32476	1.04	1.1286	0.9420	0.8404	0.0122	0.0122	94.20	RQ
PCB-32	20:25	60227	1.04	1.8324	0.9599	0.9599	0.007508	0.007508	95.99	
PCB-34	21:41	145822	1.01	1.1277	0.9755	0.9755	0.0471	0.0471	97.55	
PCB-23	21:50	148152	1.12	1.0813	1.034	1.034	0.0491	0.0491	103	
PCB-26	22:09	296674	1.06	1.1255	1.989	1.989	0.0472	0.0472	99.43	
PCB-29 (C26)	22:09	296674	1.06	1.1255	1.989	1.989	0.0472	0.0472	99.43	
PCB-25	22:22	160869	1.03	1.2728	0.9535	0.9535	0.0417	0.0417	95.35	
PCB-31	22:41	160841	1.12	1.1532	1.052	1.052	0.0460	0.0460	105	
PCB-20	23:00	298348	0.95	1.1718	1.921	1.921	0.0453	0.0453	96.04	
PCB-28 (C20)	23:00	298348	0.95	1.1718	1.921	1.921	0.0453	0.0453	96.04	
PCB-21	23:09	281992	1.02	1.0746	1.980	1.980	0.0494	0.0494	98.98	M
PCB-33 (C21)	23:09	281992	1.02	1.0746	1.980	1.980	0.0494	0.0494	98.98	M
PCB-22	23:37	164376	1.03	1.1932	1.039	1.039	0.0445	0.0445	104	
PCB-36	25:11	150690	1.02	1.1071	1.027	1.027	0.0480	0.0480	103	
PCB-39	25:31	150829	1.11	1.1581	0.9825	0.9825	0.0458	0.0458	98.25	
PCB-38	26:06	142649	1.08	1.0843	0.992	0.992	0.0490	0.0490	99.24	M
PCB-35	26:35	142742	1.10	1.1297	0.9532	0.9532	0.0470	0.0470	95.32	
PCB-37	26:59	148485	1.10	1.1435	0.9796	0.9796	0.0464	0.0464	97.96	
S Total Tetrachlorobiphenyls					41.7	41.6	0.0899	0.0899		RQ
D PCB-54L	20:14	3010951	0.81	0.5562	102.2	102.2	0.0518	0.0518	102	M
* PCB-52L	24:47	7714563	0.80		100.0	100.0				
D PCB-81L	33:42	9378026	0.80	1.2470	97.5	97.5	0.1077	0.1077	97.49	
D PCB-77L	34:16	9952597	0.81	1.3212	97.6	97.6	0.1016	0.1016	97.65	
PCB-54	20:15	39894	0.73	1.2733	1.041	1.041	0.004787	0.004787	104	M
PCB-50	22:26	160495	0.77	0.8578	1.936	1.936	0.1157	0.1157	96.79	
PCB-53 (C50)	22:26	160495	0.77	0.8578	1.936	1.936	0.1157	0.1157	96.79	
PCB-45	23:10	157715	0.85	0.8264	1.974	1.974	0.1201	0.1201	98.72	M
PCB-51 (C45)	23:10	157715	0.85	0.8264	1.974	1.974	0.1201	0.1201	98.72	M
PCB-46	23:24	65825	0.86	0.7101	0.9591	0.9591	0.1397	0.1397	95.91	
PCB-52	24:48	87733	0.73	0.9194	0.9873	0.9873	0.1079	0.1079	98.73	
PCB-43	24:58	200228	0.75	1.0333	2.005	2.005	0.0960	0.0960	100	M
PCB-73 (C43)	24:58	200228	0.75	1.0333	2.005	2.005	0.0960	0.0960	100	M
PCB-49	25:15	201895	0.78	1.0685	1.955	1.955	0.0928	0.0928	97.74	M
PCB-69 (C49)	25:15	201895	0.78	1.0685	1.955	1.955	0.0928	0.0928	97.74	M
PCB-48	25:36	83950	0.76	0.8399	1.034	1.034	0.1181	0.1181	103	
PCB-44	25:49	277857	0.79	0.9731	2.954	2.954	0.1020	0.1020	98.48	
PCB-47 (C44)	25:49	277857	0.79	0.9731	2.954	2.954	0.1020	0.1020	98.48	
PCB-65 (C44)	25:49	277857	0.79	0.9731	2.954	2.954	0.1020	0.1020	98.48	
PCB-59	26:07	331263	0.74	1.1853	2.892	2.892	0.0837	0.0837	96.39	
PCB-62 (C59)	26:07	331263	0.74	1.1853	2.892	2.892	0.0837	0.0837	96.39	
PCB-75 (C59)	26:07	331263	0.74	1.1853	2.892	2.892	0.0837	0.0837	96.39	
PCB-42	26:19	79410	0.86	0.8097	1.015	1.015	0.1225	0.1225	101	
PCB-40	26:50	252584	0.85	0.8863	2.948	2.948	0.1119	0.1119	98.28	M
PCB-41 (C40)	26:50	252584	0.85	0.8863	2.948	2.948	0.1119	0.1119	98.28	M
PCB-71 (C40)	26:50	252584	0.85	0.8863	2.948	2.948	0.1119	0.1119	98.28	M
PCB-64	27:04	121326	0.74	1.1776	1.066	1.066	0.0843	0.0843	107	M
PCB-72	27:53	102800	0.84	1.0943	0.9720	0.9720	0.0907	0.0907	97.20	
PCB-68	28:11	120639	0.80	1.2533	0.996	0.996	0.0792	0.0792	99.59	
PCB-57	28:35	107838	0.84	1.0818	1.031	1.031	0.0917	0.0917	103	
PCB-58	28:50	117702	0.87	1.3253	0.9188	0.9188	0.0749	0.0749	91.88	
PCB-67	28:59	136003	0.88	1.4230	0.9888	0.9888	0.0697	0.0697	98.88	
PCB-63	29:15	113672	0.81	1.1240	1.046	1.046	0.0883	0.0883	105	
PCB-61	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-70 (C61)	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-74 (C61)	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-76 (C61)	29:36	472477	0.81	1.2612	3.876	3.876	0.0787	0.0787	96.90	M
PCB-66	29:55	109748	0.77	1.2583	0.9790	0.9024	0.0788	0.0788	97.90	RQ
PCB-55	30:05	119512	0.82	1.3236	0.9342	0.9342	0.0750	0.0750	93.42	
PCB-56	30:35	112603	0.78	1.2334	0.9446	0.9446	0.0804	0.0804	94.46	
PCB-60	30:49	120369	0.66	1.1230	1.109	1.109	0.0883	0.0883	111	
PCB-80	31:13	128092	0.83	1.3243	1.001	1.001	0.0749	0.0749	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:45	147654	0.73	1.4368	1.063	1.063	0.0690	0.0690	106	
PCB-78	33:18	115640	0.74	1.1618	1.030	1.030	0.0854	0.0854	103	M
PCB-81	33:43	102785	0.69	1.0802	1.015	1.015	0.0934	0.0934	101	M
PCB-77	34:18	110963	0.78	1.0836	1.029	1.029	0.0901	0.0901	103	
S Total Pentachlorobiphenyls					45.9	44.9	0.0186	0.0186		RQ
D PCB-104L	25:44	6240748	1.61	1.2161	101.1	101.1	0.0146	0.0146	101	
* PCB-101L	31:39	5076656	1.61		100.0	100.0				
D PCB-123L	36:17	9073751	1.56	0.9731	94.8	94.8	1.318	1.318	94.78	
D PCB-118L	36:36	9353232	1.58	1.0102	94.1	94.1	1.269	1.269	94.12	
D PCB-114L	37:07	9705413	1.58	0.9949	99.2	99.2	1.289	1.289	99.17	
D PCB-105L	37:47	9101468	1.58	0.9514	97.2	97.2	1.348	1.348	97.24	
* PCB-127L	39:15	9837203	1.58		100.0	100.0				
D PCB-126L	40:51	8756063	1.59	0.9439	94.3	94.3	1.359	1.359	94.30	
PCB-104	25:46	61528	1.33	1.0087	0.9774	0.9774	0.008027	0.008027	97.74	M
PCB-96	26:08	63380	1.53	1.0940	0.9283	0.9283	0.007401	0.007401	92.83	
PCB-103	28:04	54610	1.48	0.8741	1.001	1.001	0.009263	0.009263	100	
PCB-94	28:18	50670	1.70	0.7640	1.063	1.063	0.0106	0.0106	106	
PCB-95	28:43	43760	1.55	0.8033	0.9606	0.8729	0.0101	0.0101	96.06	RQ
PCB-93	28:58	104065	1.45	0.8429	1.978	1.978	0.009606	0.009606	98.92	
PCB-100 (C93)	28:58	104065	1.45	0.8429	1.978	1.978	0.009606	0.009606	98.92	
PCB-98	29:09	91810	1.55	0.8262	1.974	1.781	0.009800	0.009800	98.72	RQM
PCB-102 (C98)	29:09	91810	1.55	0.8262	1.974	1.781	0.009800	0.009800	98.72	RQM
PCB-88	29:35	93115	1.60	0.8013	1.862	1.862	0.0101	0.0101	93.10	
PCB-91 (C88)	29:35	93115	1.60	0.8013	1.862	1.862	0.0101	0.0101	93.10	
PCB-84	29:49	49178	1.72	0.7299	1.080	1.080	0.0111	0.0111	108	
PCB-89	30:18	42477	1.55	0.7798	0.9571	0.8728	0.0104	0.0104	95.71	RQM
PCB-121	30:42	82240	1.51	1.2964	1.016	1.016	0.006246	0.006246	102	Ma
PCB-92	31:05	56541	1.55	0.8546	1.060	1.060	0.009475	0.009475	106	M
PCB-90	31:40	158329	1.55	0.9550	2.934	2.657	0.008478	0.008478	97.80	RQ
PCB-101 (C90)	31:40	158329	1.55	0.9550	2.934	2.657	0.008478	0.008478	97.80	RQ
PCB-113 (C90)	31:40	158329	1.55	0.9550	2.934	2.657	0.008478	0.008478	97.80	RQ
PCB-83	32:13	91289	1.55	0.8385	1.936	1.745	0.009656	0.009656	96.79	RQM
PCB-99 (C83)	32:13	91289	1.55	0.8385	1.936	1.745	0.009656	0.009656	96.79	RQM
PCB-112	32:21	85722	1.55	1.4111	1.055	0.9734	0.005738	0.005738	105	RQ
PCB-86	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-87 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-97 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-109 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-119 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-125 (C86)	32:45	380172	1.51	1.0473	5.817	5.817	0.007731	0.007731	96.95	M
PCB-85	33:27	192911	1.63	1.0408	2.970	2.970	0.007779	0.007779	99.00	
PCB-116 (C85)	33:27	192911	1.63	1.0408	2.970	2.970	0.007779	0.007779	99.00	
PCB-117 (C85)	33:27	192911	1.63	1.0408	2.970	2.970	0.007779	0.007779	99.00	
PCB-110	33:39	153152	1.73	1.1919	2.059	2.059	0.006793	0.006793	103	M
PCB-115 (C110)	33:39	153152	1.73	1.1919	2.059	2.059	0.006793	0.006793	103	M
PCB-82	33:57	52864	1.63	0.8303	1.020	1.020	0.009751	0.009751	102	
PCB-111	34:21	83431	1.58	1.2125	1.103	1.103	0.006678	0.006678	110	
PCB-120	34:48	91670	1.54	1.4762	0.995	0.995	0.005485	0.005485	99.50	
PCB-108	35:56	208570	1.63	1.1405	1.988	1.988	0.0385	0.0385	99.41	M
PCB-124 (C108)	35:56	208570	1.63	1.1405	1.988	1.988	0.0385	0.0385	99.41	M
PCB-107	36:11	93301	1.55	1.2121	0.9198	0.8369	0.0363	0.0363	91.98	RQM
PCB-123	36:17	103937	1.41	1.0722	1.068	1.068	0.0411	0.0411	107	
PCB-106	36:25	96794	1.78	1.0839	0.9709	0.9709	0.0406	0.0406	97.09	
PCB-118	36:37	118026	1.56	1.2055	1.047	1.047	0.0364	0.0364	105	
PCB-122	36:58	94688	1.40	0.9567	1.076	1.076	0.0459	0.0459	108	
PCB-114	37:09	107408	1.50	1.0842	1.021	1.021	0.0375	0.0375	102	
PCB-105	37:47	107441	1.55	1.1879	0.994	0.994	0.0368	0.0368	99.37	M
PCB-127	39:16	108872	1.40	1.1394	1.039	1.039	0.0386	0.0386	104	
PCB-126	40:53	95794	1.52	1.0976	0.997	0.997	0.0438	0.0438	99.67	
S Total Hexachlorobiphenyls					41.7	40.8	0.0349	0.0349		RQ

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-155L	31:25	5566942	1.28	1.0851	101.1	101.1	0.0241	0.0241	101	
* PCB-138L	39:43	6529803	1.28		100.0	100.0				
\$ PCB-159L	41:57	4316259	1.29	0.5118	101.1	101.1	1.003	1.003	101	
D PCB-167L	42:43	8343026	1.29	1.2572	101.6	101.6	0.5188	0.5188	102	
D PCB-156L	43:53	16075823	1.29	1.2106	203.4	203.4	0.5388	0.5388	102	
D PCB-157L (C156L)	43:53	16075823	1.29	1.2106	203.4	203.4	0.5388	0.5388	102	
D PCB-169L	47:06	8243482	1.29	1.2439	101.5	101.5	0.5244	0.5244	101	
PCB-155	31:26	53749	1.13	0.9444	1.022	1.022	0.004679	0.004679	102	
PCB-152	31:37	49815	1.24	0.9895	1.006	0.9043	0.004466	0.004466	101	RQ
PCB-150	31:48	56112	1.22	1.0132	0.995	0.995	0.004361	0.004361	99.48	
PCB-136	32:10	55716	1.33	1.0116	0.9894	0.9894	0.004369	0.004369	98.94	
PCB-145	32:27	51222	1.41	0.9685	0.9501	0.9501	0.004563	0.004563	95.01	
PCB-148	33:58	40368	1.18	0.7603	0.9538	0.9538	0.005813	0.005813	95.38	
PCB-135	34:37	78265	1.20	0.7256	1.938	1.938	0.006091	0.006091	96.88	M
PCB-151 (C135)	34:37	78265	1.20	0.7256	1.938	1.938	0.006091	0.006091	96.88	M
PCB-154	34:48	42143	1.24	0.8129	1.034	0.9313	0.005436	0.005436	103	RQ
PCB-144	35:07	38749	1.24	0.7852	0.998	0.8864	0.005628	0.005628	99.83	RQ
PCB-147	35:29	137928	1.19	0.8950	1.887	1.887	0.0492	0.0492	94.37	
PCB-149 (C147)	35:29	137928	1.19	0.8950	1.887	1.887	0.0492	0.0492	94.37	
PCB-134	35:41	130881	1.36	0.7967	2.012	2.012	0.0553	0.0553	101	M
PCB-143 (C134)	35:41	130881	1.36	0.7967	2.012	2.012	0.0553	0.0553	101	M
PCB-139	36:05	141796	1.32	0.8769	1.980	1.980	0.0502	0.0502	99.02	
PCB-140 (C139)	36:05	141796	1.32	0.8769	1.980	1.980	0.0502	0.0502	99.02	
PCB-131	36:17	60287	1.20	0.7503	0.9840	0.9840	0.0587	0.0587	98.40	M
PCB-142	36:25	58658	1.27	0.7507	0.9569	0.9569	0.0587	0.0587	95.69	M
PCB-132	36:43	59523	1.17	0.7489	0.9733	0.9733	0.0588	0.0588	97.33	
PCB-133	37:14	65331	1.24	0.8096	1.082	0.9883	0.0544	0.0544	108	RQ
PCB-165	37:39	89004	1.28	1.0247	1.064	1.064	0.0430	0.0430	106	
PCB-146	37:54	73574	1.24	0.9637	1.018	0.9350	0.0457	0.0457	102	RQ
PCB-161	38:02	95121	1.43	1.1288	1.032	1.032	0.0390	0.0390	103	
PCB-153	38:31	166883	1.19	1.0938	1.869	1.869	0.0403	0.0403	93.43	
PCB-168 (C153)	38:31	166883	1.19	1.0938	1.869	1.869	0.0403	0.0403	93.43	
PCB-141	38:42	74724	1.27	0.8755	1.045	1.045	0.0503	0.0503	105	
PCB-130	39:07	59703	1.20	0.7051	1.037	1.037	0.0625	0.0625	104	
PCB-137	39:20	55300	1.24	0.7767	0.9717	0.8720	0.0567	0.0567	97.17	RQ
PCB-164	39:28	73348	1.24	1.0382	0.9897	0.8652	0.0424	0.0424	98.97	RQ
PCB-129	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-138 (C129)	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-160 (C129)	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-163 (C129)	39:45	303072	1.17	0.9464	3.922	3.922	0.0466	0.0466	98.04	M
PCB-158	40:08	109591	1.25	1.3110	1.024	1.024	0.0336	0.0336	102	
PCB-128	40:59	139449	1.24	0.9829	1.889	1.737	0.0448	0.0448	94.43	RQ
PCB-166 (C128)	40:59	139449	1.24	0.9829	1.889	1.737	0.0448	0.0448	94.43	RQ
PCB-159	41:58	114847	1.24	1.3856	1.015	1.015	0.0318	0.0318	102	M
PCB-162	42:16	106735	1.27	1.2571	1.040	1.040	0.0350	0.0350	104	M
PCB-167	42:45	90866	1.16	1.1159	0.9760	0.9760	0.0327	0.0327	97.60	
PCB-156	43:55	183365	1.35	1.1104	2.054	2.054	0.0486	0.0486	103	
PCB-157 (C156)	43:55	183365	1.35	1.1104	2.054	2.054	0.0486	0.0486	103	
PCB-169	47:07	91425	1.25	1.1628	0.9538	0.9538	0.0326	0.0326	95.38	M
S Total Heptachlorobiphenyls					24.4	24.1	0.001933	0.001933		RQ
D PCB-188L	37:08	6585200	1.07	1.3133	98.7	98.7	0.0435	0.0435	98.67	
* PCB-180L	45:16	5081608	1.08		100.0	100.0				
D PCB-170L	46:31	4277780	1.09	0.8362	100.7	100.7	0.0683	0.0683	101	
D PCB-189L	49:38	10353644	1.06	1.4414	100.4	100.4	0.5572	0.5572	100	
PCB-188	37:10	77076	1.06	1.1350	1.031	1.031	0.000350	0.000350	103	
PCB-179	37:29	77102	1.15	1.4276	0.994	0.994	0.000341	0.000341	99.44	
PCB-184	38:01	74149	1.14	1.3672	0.999	0.999	0.000356	0.000356	99.85	
PCB-176	38:23	62562	1.03	1.2331	0.9341	0.9341	0.000395	0.000395	93.41	
PCB-186	38:50	75669	0.91	1.4737	0.9453	0.9453	0.000331	0.000331	94.53	
PCB-178	40:12	49156	0.92	0.8946	1.012	1.012	0.000545	0.000545	101	



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-175	40:50	45492	1.05	0.9524	0.9703	0.8794	0.000512	0.000512	97.03	RQ
PCB-187	41:06	60936	1.05	1.1018	1.018	1.018	0.000442	0.000442	102	
PCB-182	41:19	48192	0.91	0.9247	0.9595	0.9595	0.000527	0.000527	95.95	
PCB-183	41:43	115938	1.04	0.9825	2.173	2.173	0.000496	0.000496	109	M
PCB-185 (C183)	41:43	115938	1.04	0.9825	2.173	2.173	0.000496	0.000496	109	M
PCB-174	41:57	42648	1.05	0.9642	0.8858	0.8144	0.000505	0.000505	88.58	RQ
PCB-177	42:23	53407	1.09	0.9773	1.006	1.006	0.000499	0.000499	101	M
PCB-181	42:47	55606	1.08	0.9505	1.077	1.077	0.000513	0.000513	108	
PCB-171	43:01	103035	1.05	0.9336	2.203	2.032	0.000522	0.000522	110	RQ
PCB-173 (C171)	43:01	103035	1.05	0.9336	2.203	2.032	0.000522	0.000522	110	RQ
PCB-172	44:38	47193	1.21	0.8519	1.020	1.020	0.000572	0.000572	102	
PCB-192	44:54	75123	0.92	1.3459	1.028	1.028	0.000362	0.000362	103	
PCB-180	45:16	130449	1.02	1.1676	2.057	2.057	0.000417	0.000417	103	
PCB-193 (C180)	45:16	130449	1.02	1.1676	2.057	2.057	0.000417	0.000417	103	
PCB-191	45:39	72972	1.13	1.2891	1.042	1.042	0.000378	0.000378	104	
PCB-170	46:34	51767	1.18	1.1865	1.020	1.020	0.000530	0.000530	102	M
PCB-190	47:04	74583	1.09	1.3322	1.031	1.031	0.000366	0.000366	103	
PCB-189	49:39	97896	0.98	0.9633	0.9815	0.9815	0.0316	0.0316	98.15	
S Total Octachlorobiphenyls					12.1	11.7	0.0159	0.0159		RQ
D PCB-202L	42:30	5103331	0.90	0.9818	102.3	102.3	0.0151	0.0151	102	
* PCB-194L	51:44	7154788	0.90		100.0	100.0				
D PCB-205L	52:13	8466946	0.90	1.1786	100.4	100.4	0.0728	0.0728	100	
PCB-202	42:31	51069	0.90	1.0359	0.9661	0.9661	0.0114	0.0114	96.61	
PCB-201	43:26	47236	0.89	0.9754	1.018	0.9490	0.0122	0.0122	102	RQ
PCB-204	44:07	49880	0.89	1.0485	1.000	0.9322	0.0113	0.0113	100	RQ
PCB-197	44:20	55016	0.89	1.1458	1.014	0.9409	0.0103	0.0103	101	RQ
PCB-200	44:27	43036	0.89	1.0072	1.032	0.8373	0.0118	0.0118	103	RQ
PCB-198	47:12	88133	0.90	0.8698	1.986	1.986	0.0136	0.0136	99.28	
PCB-199 (C198)	47:12	88133	0.90	0.8698	1.986	1.986	0.0136	0.0136	99.28	
PCB-196	47:54	41271	0.98	0.7806	1.036	1.036	0.0152	0.0152	104	
PCB-203	48:06	45126	0.88	0.9292	0.9516	0.9516	0.0128	0.0128	95.16	
PCB-195	49:24	74468	0.94	0.8263	1.064	1.064	0.0294	0.0294	106	M
PCB-194	51:47	84593	0.85	0.9735	1.026	1.026	0.0249	0.0249	103	
PCB-205	52:13	94183	1.01	1.0878	1.023	1.023	0.0223	0.0223	102	
S Total Nonachlorobiphenyls					3.061	3.061	0.1200	0.1200		
D PCB-208L	49:10	6757986	0.82	0.9576	98.6	98.6	0.2730	0.2730	98.64	
D PCB-206L	53:58	4908757	0.82	0.6947	98.8	98.8	0.3764	0.3764	98.76	
PCB-208	49:12	79659	0.66	1.1374	1.036	1.036	0.1134	0.1134	104	M
PCB-207	50:06	79832	0.84	1.3756	0.995	0.995	0.1099	0.1099	99.49	M
PCB-206	53:59	67457	0.72	1.3346	1.030	1.030	0.1367	0.1367	103	M
D PCB-209L	55:36	4729024	0.71	0.6669	99.1	99.1	0.0486	0.0486	99.11	
DCB Decachlorobiphenyl	55:37	51840	0.71	1.1004	0.996	0.996	0.005241	0.005241	99.62	
S Polychlorinated biphenyls, Total					205.1	0.996	0.0361	0.0361		RQ

**QC Flag Legend**

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

61L11668P\_00006

Amount Added: 20.00

Units: uL



Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d  
Lims ID: IC L2  
Client ID:  
Sample Type: IC Calib Level: 2  
Inject. Date: 31-May-2024 16:53:00 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-002  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:26:42 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:07:23

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:38	11:36	2	0.726	10185623	4114359	3055	7637	1347		
202.0766	11:38	11:36	2	0.726	3226307	1292090	1581	3952	817	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	2	0.861	10059938	3392951	3055	7637	1111		
202.0766	13:47	13:46	2	0.861	3106539	1057643	1581	3952	669	3.24(2.66-3.60)	
PCB-1											
188.0393	11:39	11:37	2	1.001	127299	53175	138	345	385		
190.0363	11:39	11:37	2	1.001	40354	16594	127	317	131	3.15(2.66-3.60)	
PCB-2											
188.0393	13:38	13:36	2	0.989	113903	37719	138	345	273		
190.0363	13:38	13:36	2	0.989	38234	12805	127	317	101	2.98(2.66-3.60)	
PCB-3											
188.0393	13:48	13:47	2	1.001	117382	39238	138	345	284		
190.0363	13:48	13:47	2	1.001	38069	13280	127	317	105	3.08(2.66-3.60)	
PCB-4L											
234.0406	14:03	14:02	2	0.878	3363111	1081560	442	1105	2447		
236.0376	14:03	14:02	2	0.878	2079655	668618	139	347	4810	1.62(1.33-1.79)	
PCB-9L											
234.0406	16:01	15:59	2		5166195	1508927	442	1105	3414		
236.0376	16:01	15:59	2		3170104	930993	139	347	6698	1.63(1.33-1.79)	
PCB-15L											
234.0406	19:56	19:54	1	1.245	5465286	1281682	442	1105	2900		
236.0376	19:56	19:54	1	1.245	3354075	798086	139	347	5742	1.63(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-4											
222.0003	14:04	14:02	2	1.001	44768	13793	32	80	431		
223.9974	14:04	14:02	2	1.001	26513	9304	20	50	465	1.69(1.33-1.79)	
PCB-10											
222.0003	14:14	14:13	2	1.013	55621	16009	32	80	500		
223.9974	14:13	14:13	1	1.012	35318	11482	20	50	574	1.57(1.33-1.79)	
PCB-9											
222.0003	16:01	16:00	2	1.140	61323	16770	32	80	524		
223.9974	16:01	16:00	2	1.140	40446	12242	20	50	612	1.52(1.33-1.79)	
PCB-7											
222.0003	16:12	16:10	2	1.153	64352	16897	32	80	528		RQ
	Empc Correction				55283	16322	32	80	510		
223.9974	16:12	16:10	2	1.153	35438	10463	20	50	523	1.82(1.33-1.79)	
PCB-6											
222.0003	16:26	16:25	1	1.169	70638	19049	32	80	595		RQM
	Empc Correction				59487	15086	32	80	471		M
223.9974	16:26	16:25	1	1.169	38133	9671	20	50	484	1.85(1.33-1.79)	M
PCB-5											
222.0003	16:45	16:43	2	1.192	59254	17650	32	80	552		
223.9974	16:44	16:43	1	1.191	33819	9539	20	50	477	1.75(1.33-1.79)	
PCB-8											
222.0003	16:52	16:50	2	1.200	65520	17964	32	80	561		
223.9974	16:52	16:50	2	1.200	43000	10560	20	50	528	1.52(1.33-1.79)	
PCB-14											
222.0003	18:30	18:28	2	0.928	60089	14343	32	80	448		
223.9974	18:29	18:28	2	0.927	35617	8039	20	50	402	1.69(1.33-1.79)	
PCB-11											
222.0003	19:20	19:18	1	0.970	54062	12799	32	80	400		RQ
	Empc Correction				46121	10849	32	80	339		
223.9974	19:20	19:18	2	0.970	29565	6955	20	50	348	1.83(1.33-1.79)	
PCB-12											
222.0003	19:38	19:36	1	0.985	111069	18880	32	80	590		
223.9974	19:38	19:36	1	0.985	70574	11549	20	50	577	1.57(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:38	19:36	1	0.985	111069	18880	32	80	590		
223.9974	19:38	19:36	1	0.985	70574	11549	20	50	577	1.57(1.33-1.79)	
PCB-15											
222.0003	19:57	19:55	1	1.001	68996	15389	32	80	481		
223.9974	19:57	19:55	1	1.001	44908	10538	20	50	527	1.54(1.33-1.79)	
PCB-19L											
268.0016	17:09	17:08	2	0.841	1745587	480479	407	1017	1181		
269.9986	17:09	17:08	2	0.841	1678449	464429	1068	2670	435	1.04(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:23	1		2778431	679560	407	1017	1670		
269.9986	20:24	20:23	1		2517260	621065	1068	2670	582	1.10(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:40	22:38	2		7699706	1781645	922	2305	1932		
269.9986	22:40	22:38	2		7400655	1706805	609	1522	2803	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:57	26:55	2	1.189	6839473	1362148	922	2305	1477		
269.9986	26:57	26:55	2	1.189	6416325	1278780	609	1522	2100	1.07(0.88-1.20)	
PCB-19											
255.9613	17:10	17:09	2	1.001	19803	5709	51	127	112		
257.9584	17:10	17:09	2	1.001	18128	5203	1	2	5203	1.09(0.88-1.20)	
PCB-18											
255.9613	19:00	18:59	1	1.107	61748	11831	51	127	232		
257.9584	19:01	18:59	2	1.109	57877	10645	1	2	10645	1.07(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:00	18:59	1	1.107	61748	11831	51	127	232		
257.9584	19:01	18:59	2	1.109	57877	10645	1	2	10645	1.07(0.88-1.20)	
PCB-17											
255.9613	19:27	19:26	1	1.133	21795	6099	51	127	120		
257.9584	19:27	19:26	1	1.133	21257	5516	1	2	5516	1.03(0.88-1.20)	
PCB-27											
255.9613	19:40	19:39	1	1.146	32473	8025	51	127	157		
257.9584	19:41	19:39	2	1.147	29300	7998	1	2	7998	1.11(0.88-1.20)	
PCB-24											
255.9613	19:48	19:46	2	1.154	28086	8423	51	127	165		
257.9584	19:48	19:46	2	1.154	27453	6886	1	2	6886	1.02(0.88-1.20)	
PCB-16											
255.9613	19:54	19:53	1	1.160	20482	4992	51	127	98		RQ
	Empc Correction				16556	3825	51	127	75		
257.9584	19:54	19:53	1	1.160	15920	3678	1	2	3678	1.29(0.88-1.20)	
PCB-32											
255.9613	20:25	20:23	1	1.190	30706	7724	51	127	151		
257.9584	20:25	20:23	1	1.190	29521	7333	1	2	7333	1.04(0.88-1.20)	
PCB-34											
255.9613	21:41	21:39	2	1.264	73408	18127	359	897	50		
257.9584	21:41	21:39	2	1.264	72414	17630	202	505	87	1.01(0.88-1.20)	
PCB-23											
255.9613	21:50	21:48	2	1.273	78250	19661	359	897	55		
257.9584	21:50	21:48	2	1.273	69902	16890	202	505	84	1.12(0.88-1.20)	
PCB-26											
255.9613	22:09	22:08	2	1.291	152528	29953	359	897	83		
257.9584	22:09	22:08	2	1.291	144146	29473	202	505	146	1.06(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:09	22:08	2	1.291	152528	29953	359	897	83		
257.9584	22:09	22:08	2	1.291	144146	29473	202	505	146	1.06(0.88-1.20)	
PCB-25											
255.9613	22:22	22:21	2	0.830	81603	19501	359	897	54		
257.9584	22:22	22:21	2	0.830	79266	17000	202	505	84	1.03(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31											
255.9613	22:41	22:40	2	0.842	85080	19454	359	897	54		
257.9584	22:41	22:40	1	0.841	75761	16478	202	505	82	1.12(0.88-1.20)	
PCB-20											
255.9613	23:00	22:58	2	0.853	145020	28183	359	897	79		
257.9584	23:00	22:58	2	0.853	153328	28031	202	505	139	0.95(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	22:58	2	0.853	145020	28183	359	897	79		
257.9584	23:00	22:58	2	0.853	153328	28031	202	505	139	0.95(0.88-1.20)	
PCB-21											
255.9613	23:09	23:07	2	0.859	142636	18040	359	897	50		M
257.9584	23:14	23:07	6	0.862	139356	15780	202	505	78	1.02(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:09	23:07	2	0.859	142636	18040	359	897	50		M
257.9584	23:14	23:07	6	0.862	139356	15780	202	505	78	1.02(0.88-1.20)	M
PCB-22											
255.9613	23:37	23:35	2	0.876	83341	19521	359	897	54		
257.9584	23:37	23:35	2	0.876	81035	21048	202	505	104	1.03(0.88-1.20)	
PCB-36											
255.9613	25:11	25:09	2	0.934	76109	13923	359	897	39		
257.9584	25:10	25:09	2	0.934	74581	13287	202	505	66	1.02(0.88-1.20)	
PCB-39											
255.9613	25:31	25:30	1	0.947	79422	15068	359	897	42		
257.9584	25:33	25:30	2	0.948	71407	14943	202	505	74	1.11(0.88-1.20)	
PCB-38											
255.9613	26:06	26:05	2	0.969	73953	16064	359	897	45		M
257.9584	26:06	26:05	2	0.969	68696	14199	202	505	70	1.08(0.88-1.20)	M
PCB-35											
255.9613	26:35	26:32	2	0.986	74831	15734	359	897	44		
257.9584	26:35	26:32	3	0.987	67911	13442	202	505	67	1.10(0.88-1.20)	
PCB-37											
255.9613	26:59	26:57	2	1.001	77812	14227	359	897	40		
257.9584	26:58	26:57	1	1.000	70673	12845	202	505	64	1.10(0.88-1.20)	
PCB-54L											
301.9626	20:14	20:12	2	0.816	1343864	330880	86	215	3847		M
303.9597	20:14	20:12	2	0.816	1667087	407334	64	160	6365	0.81(0.65-0.89)	M
PCB-52L											
301.9626	24:47	24:46	1		3433693	753064	382	955	1971		
303.9597	24:47	24:46	1		4280870	937822	526	1315	1783	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:42	33:41	2	1.360	4162808	791085	382	955	2071		
303.9597	33:42	33:41	2	1.360	5215218	1012994	526	1315	1926	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:16	34:14	2	1.383	4447334	839826	382	955	2198		
303.9597	34:16	34:14	2	1.383	5505263	1024968	526	1315	1949	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-54											M
289.9224	20:15	20:13	2	1.000	16803	3748	5	12	750		M
291.9194	20:15	20:13	2	1.000	23091	6390	13	32	492	0.73(0.65-0.89)	
PCB-50											
289.9224	22:26	22:24	2	1.109	69919	12879	215	537	60		
291.9194	22:25	22:24	2	1.108	90576	18796	513	1282	37	0.77(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:26	22:24	2	1.109	69919	12879	215	537	60		
291.9194	22:25	22:24	2	1.108	90576	18796	513	1282	37	0.77(0.65-0.89)	
PCB-45											M
289.9224	23:10	23:08	2	1.145	72408	10368	215	537	48		
291.9194	23:09	23:08	1	1.144	85307	9879	513	1282	19	0.85(0.65-0.89)	M
PCB-51 (C45)											M
289.9224	23:10	23:08	2	1.145	72408	10368	215	537	48		
291.9194	23:09	23:08	1	1.144	85307	9879	513	1282	19	0.85(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:22	2	1.156	30445	7099	215	537	33		
291.9194	23:23	23:22	1	1.156	35380	6945	513	1282	14	0.86(0.65-0.89)	
PCB-52											
289.9224	24:48	24:47	1	1.226	37002	9019	215	537	42		
291.9194	24:49	24:47	2	1.226	50731	13189	513	1282	26	0.73(0.65-0.89)	
PCB-43											M
289.9224	24:58	24:56	2	1.234	85780	10929	215	537	51		M
291.9194	24:56	24:56	0	1.233	114448	14514	513	1282	28	0.75(0.65-0.89)	M
PCB-73 (C43)											M
289.9224	24:58	24:56	2	1.234	85780	10929	215	537	51		M
291.9194	24:56	24:56	0	1.233	114448	14514	513	1282	28	0.75(0.65-0.89)	M
PCB-49											M
289.9224	25:15	25:14	1	1.248	88756	13436	215	537	62		M
291.9194	25:15	25:14	1	1.248	113139	17014	513	1282	33	0.78(0.65-0.89)	
PCB-69 (C49)											M
289.9224	25:15	25:14	1	1.248	88756	13436	215	537	62		M
291.9194	25:15	25:14	1	1.248	113139	17014	513	1282	33	0.78(0.65-0.89)	
PCB-48											
289.9224	25:36	25:33	2	1.265	36336	8437	215	537	39		
291.9194	25:35	25:33	2	1.264	47614	11115	513	1282	22	0.76(0.65-0.89)	
PCB-44											
289.9224	25:49	25:48	2	1.276	122897	21858	215	537	102		
291.9194	25:49	25:48	2	1.276	154960	27885	513	1282	54	0.79(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:49	25:48	2	1.276	122897	21858	215	537	102		
291.9194	25:49	25:48	2	1.276	154960	27885	513	1282	54	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:49	25:48	2	1.276	122897	21858	215	537	102		
291.9194	25:49	25:48	2	1.276	154960	27885	513	1282	54	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-59											
289.9224	26:07	26:06	1	1.291	140800	20222	215	537	94		
291.9194	26:07	26:06	1	1.291	190463	25683	513	1282	50	0.74(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:07	26:06	1	1.291	140800	20222	215	537	94		
291.9194	26:07	26:06	1	1.291	190463	25683	513	1282	50	0.74(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:07	26:06	1	1.291	140800	20222	215	537	94		
291.9194	26:07	26:06	1	1.291	190463	25683	513	1282	50	0.74(0.65-0.89)	
PCB-42											
289.9224	26:19	26:18	1	1.301	36624	8441	215	537	39		
291.9194	26:20	26:18	2	1.302	42786	9700	513	1282	19	0.86(0.65-0.89)	
PCB-40											
289.9224	26:50	26:48	2	1.326	116094	16878	215	537	79		M
291.9194	26:50	26:48	2	1.326	136490	22026	513	1282	43	0.85(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:50	26:48	2	1.326	116094	16878	215	537	79		M
291.9194	26:50	26:48	2	1.326	136490	22026	513	1282	43	0.85(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:50	26:48	2	1.326	116094	16878	215	537	79		M
291.9194	26:50	26:48	2	1.326	136490	22026	513	1282	43	0.85(0.65-0.89)	M
PCB-64											
289.9224	27:04	27:01	3	1.338	51698	10058	215	537	47		M
291.9194	27:03	27:01	2	1.337	69628	14722	513	1282	29	0.74(0.65-0.89)	M
PCB-72											
289.9224	27:53	27:51	2	0.827	46842	10272	215	537	48		
291.9194	27:53	27:51	2	0.827	55958	12344	513	1282	24	0.84(0.65-0.89)	
PCB-68											
289.9224	28:11	28:09	2	0.836	53520	9811	215	537	46		
291.9194	28:11	28:09	2	0.836	67119	11442	513	1282	22	0.80(0.65-0.89)	
PCB-57											
289.9224	28:35	28:34	2	0.848	49266	11410	215	537	53		
291.9194	28:35	28:34	2	0.848	58572	12049	513	1282	23	0.84(0.65-0.89)	
PCB-58											
289.9224	28:50	28:48	2	0.855	54694	11437	215	537	53		
291.9194	28:50	28:48	2	0.855	63008	13249	513	1282	26	0.87(0.65-0.89)	
PCB-67											
289.9224	28:59	28:58	1	0.860	63632	10795	215	537	50		
291.9194	28:59	28:58	1	0.860	72371	15591	513	1282	30	0.88(0.65-0.89)	
PCB-63											
289.9224	29:15	29:14	2	0.868	50749	9795	215	537	46		
291.9194	29:15	29:14	2	0.868	62923	11830	513	1282	23	0.81(0.65-0.89)	
PCB-61											
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		M
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-70 (C61)											M
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M
PCB-74 (C61)											M
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M
PCB-76 (C61)											M
289.9224	29:36	29:34	2	0.878	210815	24606	215	537	114		
291.9194	29:36	29:34	2	0.878	261662	29135	513	1282	57	0.81(0.65-0.89)	M
PCB-66											RQ
289.9224	29:55	29:53	2	0.888	57060	12382	215	537	58		
	Empc Correction				47743	9165	215	537	43		
291.9194	29:55	29:53	2	0.888	62005	11903	513	1282	23	0.92(0.65-0.89)	
PCB-55											
289.9224	30:05	30:03	2	0.893	53977	11655	215	537	54		
291.9194	30:05	30:03	2	0.893	65535	14489	513	1282	28	0.82(0.65-0.89)	
PCB-56											
289.9224	30:35	30:33	2	0.907	49377	11178	215	537	52		
291.9194	30:36	30:33	2	0.908	63226	13322	513	1282	26	0.78(0.65-0.89)	
PCB-60											
289.9224	30:49	30:46	2	0.914	47903	9501	215	537	44		
291.9194	30:48	30:46	2	0.914	72466	13792	513	1282	27	0.66(0.65-0.89)	
PCB-80											
289.9224	31:13	31:11	2	0.926	58022	11679	215	537	54		
291.9194	31:13	31:11	2	0.926	70070	13568	513	1282	26	0.83(0.65-0.89)	
PCB-79											
289.9224	32:45	32:42	2	0.972	62223	9934	215	537	46		
291.9194	32:44	32:42	2	0.971	85431	14322	513	1282	28	0.73(0.65-0.89)	
PCB-78											M
289.9224	33:18	33:15	2	0.988	49349	8800	215	537	41		M
291.9194	33:18	33:15	2	0.988	66291	11725	513	1282	23	0.74(0.65-0.89)	M
PCB-81											M
289.9224	33:43	33:42	1	1.000	41953	8123	215	537	38		M
291.9194	33:43	33:42	1	1.000	60832	12136	513	1282	24	0.69(0.65-0.89)	
PCB-77											
289.9224	34:18	34:16	2	1.001	48709	10542	215	537	49		
291.9194	34:18	34:16	2	1.001	62254	11494	513	1282	22	0.78(0.65-0.89)	
PCB-104L											
337.9207	25:44	25:42	2	0.813	3852824	852423	51	127	16714		
339.9178	25:44	25:42	2	0.813	2387924	530853	21	52	25279	1.61(1.32-1.78)	
PCB-101L											
337.9207	31:39	31:37	2		3129961	628656	51	127	12327		
339.9178	31:39	31:37	2		1946695	384780	21	52	18323	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:17	36:15	2	1.146	5533213	1071392	6223	15557	172		
339.9178	36:17	36:15	2	1.146	3540538	685925	3501	8752	196	1.56(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:36	36:34	1	1.156	5725256	1083224	6223	15557	174		
339.9178	36:36	36:34	2	1.157	3627976	684723	3501	8752	196	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.173	5950451	1164285	6223	15557	187		
339.9178	37:07	37:06	1	1.173	3754962	740475	3501	8752	212	1.58(1.32-1.78)	
PCB-105L											
337.9207	37:47	37:45	2	1.194	5569980	1083992	6223	15557	174		
339.9178	37:47	37:45	2	1.194	3531488	687514	3501	8752	196	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:15	39:14	1		6022915	1165835	6223	15557	187		
339.9178	39:15	39:14	1		3814288	729954	3501	8752	208	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:50	1	1.291	5379062	991895	6223	15557	159		
339.9178	40:51	40:50	1	1.291	3377001	621408	3501	8752	177	1.59(1.32-1.78)	
PCB-104											
325.8804	25:46	25:44	2	1.001	35169	8946	41	102	218		M
327.8775	25:46	25:44	2	1.001	26359	6216	4	10	1554	1.33(1.32-1.78)	M
PCB-96											
325.8804	26:08	26:06	2	1.015	38377	8336	41	102	203		
327.8775	26:07	26:06	1	1.015	25003	6214	4	10	1554	1.53(1.32-1.78)	
PCB-103											
325.8804	28:04	28:02	2	1.091	32564	6777	41	102	165		
327.8775	28:04	28:02	2	1.091	22046	4620	4	10	1155	1.48(1.32-1.78)	
PCB-94											
325.8804	28:18	28:16	2	1.099	31909	7425	41	102	181		
327.8775	28:17	28:16	1	1.099	18761	4368	4	10	1092	1.70(1.32-1.78)	
PCB-95											
325.8804	28:43	28:42	1	1.116	30994	5520	41	102	135		RQ
	Empc Correction				26599	6644	41	102	162		
327.8775	28:44	28:42	2	1.116	17161	4287	4	10	1072	1.81(1.32-1.78)	
PCB-93											
325.8804	28:58	28:55	2	1.125	61529	13843	41	102	338		
327.8775	28:57	28:55	2	1.125	42536	8966	4	10	2242	1.45(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:58	28:55	2	1.125	61529	13843	41	102	338		
327.8775	28:57	28:55	2	1.125	42536	8966	4	10	2242	1.45(1.32-1.78)	
PCB-98											
325.8804	29:09	29:04	5	1.133	65793	7876	41	102	192		RQM
	Empc Correction				55806	7325	41	102	179		M
327.8775	29:05	29:04	1	1.130	36004	4726	4	10	1182	1.83(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:09	29:04	5	1.133	65793	7876	41	102	192		RQM
	Empc Correction				55806	7325	41	102	179		M
327.8775	29:05	29:04	1	1.130	36004	4726	4	10	1182	1.83(1.32-1.78)	M



Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-88											
325.8804	29:35	29:33	2	1.150	57329	6752	41	102	165		
327.8775	29:35	29:33	2	1.150	35786	4659	4	10	1165	1.60(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:35	29:33	2	1.150	57329	6752	41	102	165		
327.8775	29:35	29:33	2	1.150	35786	4659	4	10	1165	1.60(1.32-1.78)	
PCB-84											
325.8804	29:49	29:47	2	1.159	31120	5809	41	102	142		
327.8775	29:49	29:47	2	1.159	18058	3646	4	10	912	1.72(1.32-1.78)	
PCB-89											
325.8804	30:18	30:16	2	1.178	29923	6017	41	102	147		RQM
	Empc Correction				25819	4512	41	102	110		
327.8775	30:18	30:16	2	1.178	16658	2911	4	10	728	1.80(1.32-1.78)	M
PCB-121											
325.8804	30:42	30:41	1	1.193	49412	10452	41	102	255		Ma
327.8775	30:43	30:41	2	1.194	32828	5809	4	10	1452	1.51(1.32-1.78)	M
PCB-92											
325.8804	31:05	31:03	2	0.857	34399	7131	41	102	174		M
327.8775	31:06	31:03	2	0.857	22142	5081	4	10	1270	1.55(1.32-1.78)	M
PCB-90											
325.8804	31:40	31:37	3	1.231	112769	16900	41	102	412		RQ
	Empc Correction				96239	13790	41	102	336		
327.8775	31:39	31:37	2	1.230	62090	8897	4	10	2224	1.82(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:40	31:37	3	1.231	112769	16900	41	102	412		RQ
	Empc Correction				96239	13790	41	102	336		
327.8775	31:39	31:37	2	1.230	62090	8897	4	10	2224	1.82(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:40	31:37	3	1.231	112769	16900	41	102	412		RQ
	Empc Correction				96239	13790	41	102	336		
327.8775	31:39	31:37	2	1.230	62090	8897	4	10	2224	1.82(1.32-1.78)	
PCB-83											
325.8804	32:13	32:13	0	1.252	65499	8076	41	102	197		RQM
	Empc Correction				55489	8120	41	102	198		
327.8775	32:14	32:13	1	1.253	35800	5239	4	10	1310	1.83(1.32-1.78)	M
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.252	65499	8076	41	102	197		RQM
	Empc Correction				55489	8120	41	102	198		
327.8775	32:14	32:13	1	1.253	35800	5239	4	10	1310	1.83(1.32-1.78)	M
PCB-112											
325.8804	32:21	32:20	1	1.257	52106	10914	41	102	266		RQ
327.8775	32:21	32:20	1	1.257	40788	7251	4	10	1813	1.28(1.32-1.78)	
	Empc Correction				33616	7041	4	10	1760		
PCB-86											
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		M
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-87 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:45	32:42	2	1.273	228716	23428	41	102	571		
327.8775	32:44	32:42	2	1.272	151456	16151	4	10	4038	1.51(1.32-1.78)	M
PCB-85											
325.8804	33:27	33:25	2	1.300	119513	15541	41	102	379		
327.8775	33:27	33:25	2	1.300	73398	8906	4	10	2227	1.63(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:27	33:25	2	1.300	119513	15541	41	102	379		
327.8775	33:27	33:25	2	1.300	73398	8906	4	10	2227	1.63(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:27	33:25	2	1.300	119513	15541	41	102	379		
327.8775	33:27	33:25	2	1.300	73398	8906	4	10	2227	1.63(1.32-1.78)	
PCB-110											M
325.8804	33:39	33:37	2	1.308	97064	11409	41	102	278		M
327.8775	33:38	33:37	2	1.307	56088	7877	4	10	1969	1.73(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:39	33:37	2	1.308	97064	11409	41	102	278		M
327.8775	33:38	33:37	2	1.307	56088	7877	4	10	1969	1.73(1.32-1.78)	M
PCB-82											
325.8804	33:57	33:55	2	1.319	32782	6408	41	102	156		
327.8775	33:57	33:55	2	1.319	20082	3679	4	10	920	1.63(1.32-1.78)	
PCB-111											
325.8804	34:21	34:19	2	1.335	51140	10636	41	102	259		
327.8775	34:21	34:19	2	1.335	32291	6561	4	10	1640	1.58(1.32-1.78)	
PCB-120											
325.8804	34:48	34:47	2	1.353	55527	10085	41	102	246		
327.8775	34:48	34:47	2	1.353	36143	7513	4	10	1878	1.54(1.32-1.78)	
PCB-108											M
325.8804	35:56	35:55	1	1.397	129156	24528	158	395	155		M
327.8775	35:57	35:55	2	1.397	79414	15113	152	380	99	1.63(1.32-1.78)	M
PCB-124 (C108)											M
325.8804	35:56	35:55	1	1.397	129156	24528	158	395	155		M
327.8775	35:57	35:55	2	1.397	79414	15113	152	380	99	1.63(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-107											RQM
325.8804	36:11	36:09	2	1.406	65956	14147	158	395	90		M
	Empc Correction				56712	10629	158	395	67		
327.8775	36:11	36:09	2	1.406	36589	6858	152	380	45	1.80(1.32-1.78)	
PCB-123											
325.8804	36:17	36:16	1	1.000	60802	12937	158	395	82		
327.8775	36:17	36:16	1	1.000	43135	9086	152	380	60	1.41(1.32-1.78)	
PCB-106											
325.8804	36:25	36:23	1	1.004	61923	12333	158	395	78		
327.8775	36:25	36:23	1	1.004	34871	6580	152	380	43	1.78(1.32-1.78)	
PCB-118											
325.8804	36:37	36:36	1	1.001	71873	12997	158	395	82		
327.8775	36:37	36:36	1	1.001	46153	8339	152	380	55	1.56(1.32-1.78)	
PCB-122											
325.8804	36:58	36:56	2	1.010	55310	11174	158	395	71		
327.8775	36:58	36:56	1	1.010	39378	7224	152	380	48	1.40(1.32-1.78)	
PCB-114											
325.8804	37:09	37:08	1	1.001	64516	11526	158	395	73		
327.8775	37:09	37:08	1	1.001	42892	8751	152	380	58	1.50(1.32-1.78)	
PCB-105											M
325.8804	37:47	37:46	1	1.000	65351	12605	158	395	80		M
327.8775	37:47	37:46	1	1.000	42090	7618	152	380	50	1.55(1.32-1.78)	M
PCB-127											
325.8804	39:16	39:15	1	1.039	63598	11839	158	395	75		
327.8775	39:16	39:15	1	1.039	45274	8326	152	380	55	1.40(1.32-1.78)	
PCB-126											
325.8804	40:53	40:52	1	1.001	57780	11950	158	395	76		
327.8775	40:53	40:52	1	1.001	38014	7003	152	380	46	1.52(1.32-1.78)	
PCB-155L											
371.8817	31:25	31:23	2	0.791	3126022	636241	61	152	10430		
373.8788	31:25	31:23	2	0.791	2440920	495191	45	112	11004	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:41	2		3666551	700789	3131	7827	224		
373.8788	39:43	39:41	2		2863252	550451	134	335	4108	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:57	41:56	1	0.982	4316259	836120	3131	7827	267		
373.8788	41:57	41:56	1	0.982	3349296	654941	134	335	4888	1.29(0.00-0.00)	
PCB-167L											
371.8817	42:43	42:42	1	1.075	4693699	890630	3131	7827	284		
373.8788	42:43	42:42	1	1.075	3649327	698734	134	335	5214	1.29(1.05-1.43)	
PCB-156L											
371.8817	43:53	43:51	2	1.105	9041076	1205030	3131	7827	385		
373.8788	43:53	43:51	2	1.105	7034747	943016	134	335	7037	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:53	43:51	2	1.105	9041076	1205030	3131	7827	385		
373.8788	43:53	43:51	2	1.105	7034747	943016	134	335	7037	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-169L											
371.8817	47:06	47:05	1	1.186	4637308	865319	3131	7827	276		
373.8788	47:06	47:05	1	1.186	3606174	663265	134	335	4950	1.29(1.05-1.43)	
PCB-155											
359.8415	31:26	31:25	2	1.001	28498	6679	1	2	6679		
361.8385	31:26	31:25	1	1.000	25251	4509	19	47	237	1.13(1.05-1.43)	
PCB-152											
359.8415	31:37	31:36	2	1.007	33160	6809	1	2	6809		RQ
	Empc Correction				27576	6414	1	2	6414		
361.8385	31:38	31:36	2	1.007	22239	5173	19	47	272	1.49(1.05-1.43)	
PCB-150											
359.8415	31:48	31:46	2	1.012	30792	6012	1	2	6012		
361.8385	31:48	31:46	2	1.012	25320	4810	19	47	253	1.22(1.05-1.43)	
PCB-136											
359.8415	32:10	32:08	2	1.024	31827	6576	1	2	6576		
361.8385	32:09	32:08	2	1.024	23889	5366	19	47	282	1.33(1.05-1.43)	
PCB-145											
359.8415	32:27	32:25	2	1.033	29992	5625	1	2	5625		
361.8385	32:27	32:25	2	1.033	21230	4131	19	47	217	1.41(1.05-1.43)	
PCB-148											
359.8415	33:58	33:57	2	1.081	21867	4602	1	2	4602		
361.8385	33:58	33:57	1	1.081	18501	3706	19	47	195	1.18(1.05-1.43)	
PCB-135											
359.8415	34:37	34:32	5	1.102	42637	5796	1	2	5796		M
361.8385	34:34	34:32	2	1.100	35628	4361	19	47	230	1.20(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:37	34:32	5	1.102	42637	5796	1	2	5796		M
361.8385	34:34	34:32	2	1.100	35628	4361	19	47	230	1.20(1.05-1.43)	M
PCB-154											
359.8415	34:48	34:47	1	1.108	27976	5637	1	2	5637		RQ
	Empc Correction				23329	4997	1	2	4997		
361.8385	34:49	34:47	2	1.108	18814	4030	19	47	212	1.49(1.05-1.43)	
PCB-144											
359.8415	35:07	35:06	1	1.118	26342	5515	1	2	5515		RQ
	Empc Correction				21450	4607	1	2	4607		
361.8385	35:07	35:06	1	1.118	17299	3716	19	47	196	1.52(1.05-1.43)	
PCB-147											
359.8415	35:29	35:27	2	1.130	74997	14106	142	355	99		
361.8385	35:29	35:27	2	1.130	62931	13366	90	225	149	1.19(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:29	35:27	2	1.130	74997	14106	142	355	99		
361.8385	35:29	35:27	2	1.130	62931	13366	90	225	149	1.19(1.05-1.43)	
PCB-134											
359.8415	35:41	35:45	-4	1.136	75510	8816	142	355	62		M
361.8385	35:41	35:45	-4	1.136	55371	6421	90	225	71	1.36(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											M
359.8415	35:41	35:45	-4	1.136	75510	8816	142	355	62		M
361.8385	35:41	35:45	-4	1.136	55371	6421	90	225	71	1.36(1.05-1.43)	M
PCB-139											
359.8415	36:05	36:04	1	1.149	80579	14078	142	355	99		
361.8385	36:05	36:04	1	1.149	61217	11443	90	225	127	1.32(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:05	36:04	1	1.149	80579	14078	142	355	99		
361.8385	36:05	36:04	1	1.149	61217	11443	90	225	127	1.32(1.05-1.43)	
PCB-131											M
359.8415	36:17	36:15	2	1.155	32830	6849	142	355	48		
361.8385	36:16	36:15	0	1.154	27457	5101	90	225	57	1.20(1.05-1.43)	M
PCB-142											M
359.8415	36:25	36:24	0	1.159	32793	5711	142	355	40		
361.8385	36:26	36:24	2	1.160	25865	4667	90	225	52	1.27(1.05-1.43)	M
PCB-132											
359.8415	36:43	36:43	0	1.169	32080	5412	142	355	38		
361.8385	36:43	36:43	0	1.169	27443	4769	90	225	53	1.17(1.05-1.43)	
PCB-133											RQ
359.8415	37:14	37:14	0	1.185	42390	7904	142	355	56		
Empc Correction											
361.8385	37:15	37:14	1	1.186	29166	6863	90	225	76	1.45(1.05-1.43)	
PCB-165											
359.8415	37:39	37:37	2	0.881	49920	10011	142	355	71		
361.8385	37:38	37:37	1	0.881	39084	7597	90	225	84	1.28(1.05-1.43)	
PCB-146											RQ
359.8415	37:54	37:52	1	0.887	40729	7935	142	355	56		
361.8385	37:53	37:52	0	0.887	39349	7505	90	225	83	1.04(1.05-1.43)	
Empc Correction											
					32845	6399	90	225	71		
PCB-161											
359.8415	38:02	38:00	2	0.890	55964	10549	142	355	74		
361.8385	38:01	38:00	1	0.890	39157	7690	90	225	85	1.43(1.05-1.43)	
PCB-153											
359.8415	38:31	38:30	1	0.901	90793	13655	142	355	96		
361.8385	38:32	38:30	2	0.902	76090	11695	90	225	130	1.19(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:31	38:30	1	0.901	90793	13655	142	355	96		
361.8385	38:32	38:30	2	0.902	76090	11695	90	225	130	1.19(1.05-1.43)	
PCB-141											
359.8415	38:42	38:41	1	0.906	41769	7157	142	355	50		
361.8385	38:41	38:41	0	0.906	32955	5667	90	225	63	1.27(1.05-1.43)	
PCB-130											
359.8415	39:07	39:05	2	0.916	32553	7234	142	355	51		
361.8385	39:07	39:05	2	0.916	27150	5387	90	225	60	1.20(1.05-1.43)	
PCB-137											RQ
359.8415	39:20	39:18	3	0.921	30613	5935	142	355	42		
361.8385	39:19	39:18	1	0.920	31013	5495	90	225	61	0.99(1.05-1.43)	
Empc Correction											
					24687	4786	90	225	53		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											RQ
359.8415	39:28	39:26	2	0.924	51162	9620	142	355	68		
	Empc Correction				40603	9340	142	355	66		
361.8385	39:27	39:26	1	0.923	32745	7533	90	225	84	1.56(1.05-1.43)	
PCB-129											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-138 (C129)											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-160 (C129)											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-163 (C129)											M
359.8415	39:45	39:44	1	0.930	163250	17221	142	355	121		
361.8385	39:46	39:44	2	0.931	139822	16794	90	225	187	1.17(1.05-1.43)	M
PCB-158											
359.8415	40:08	40:07	1	0.939	60854	10219	142	355	72		
361.8385	40:08	40:07	1	0.939	48737	9380	90	225	104	1.25(1.05-1.43)	
PCB-128											RQ
359.8415	40:59	40:57	2	0.959	77195	12492	142	355	88		
361.8385	40:58	40:57	1	0.959	74383	11241	90	225	125	1.04(1.05-1.43)	
	Empc Correction				62254	10074	90	225	112		
PCB-166 (C128)											RQ
359.8415	40:59	40:57	2	0.959	77195	12492	142	355	88		
361.8385	40:58	40:57	1	0.959	74383	11241	90	225	125	1.04(1.05-1.43)	
	Empc Correction				62254	10074	90	225	112		
PCB-159											M
359.8415	41:58	41:58	0	0.982	63675	12341	142	355	87		
361.8385	41:59	41:58	1	0.983	51172	10428	90	225	116	1.24(1.05-1.43)	M
PCB-162											M
359.8415	42:16	42:15	0	0.989	59673	10121	142	355	71		M
361.8385	42:16	42:15	1	0.990	47062	8194	90	225	91	1.27(1.05-1.43)	M
PCB-167											
359.8415	42:45	42:44	1	1.001	48825	9243	142	355	65		
361.8385	42:45	42:44	1	1.001	42041	7816	90	225	87	1.16(1.05-1.43)	
PCB-156											
359.8415	43:55	43:53	2	1.001	105188	13424	142	355	95		
361.8385	43:54	43:53	1	1.001	78177	11594	90	225	129	1.35(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:55	43:53	2	1.001	105188	13424	142	355	95		
361.8385	43:54	43:53	1	1.001	78177	11594	90	225	129	1.35(1.05-1.43)	
PCB-169											M
359.8415	47:07	47:06	1	1.001	50749	9063	142	355	64		M
361.8385	47:07	47:06	0	1.000	40676	6854	90	225	76	1.25(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:08	37:07	1	0.820	3401229	645871	161	402	4012	1.07(0.89-1.21)	
407.8398	37:08	37:07	1	0.820	3183971	611997	55	137	11127		
PCB-180L											
405.8428	45:16	45:15	1		2634599	488940	161	402	3037	1.08(0.89-1.21)	
407.8398	45:16	45:15	1		2447009	456329	55	137	8297		
PCB-170L											
405.8428	46:31	46:30	1	1.028	2234132	415870	161	402	2583	1.09(0.89-1.21)	
407.8398	46:31	46:30	1	1.028	2043648	378648	55	137	6885		
PCB-189L											
405.8428	49:38	49:37	1	1.096	5328461	950340	2391	5977	397	1.06(0.89-1.21)	
407.8398	49:38	49:37	1	1.096	5025183	910012	1691	4227	538		
PCB-188											
393.8025	37:10	37:08	1	1.001	39690	7719	1	2	7719	1.06(0.89-1.21)	
395.7995	37:10	37:08	1	1.001	37386	7793	1	2	7793		
PCB-179											
393.8025	37:29	37:28	1	1.010	41308	8819	1	2	8819	1.15(0.89-1.21)	
395.7995	37:29	37:28	1	1.010	35794	7124	1	2	7124		
PCB-184											
393.8025	38:01	38:00	1	1.024	39427	8484	1	2	8484	1.14(0.89-1.21)	
395.7995	38:02	38:00	2	1.024	34722	5943	1	2	5943		
PCB-176											
393.8025	38:23	38:21	2	1.034	31774	5940	1	2	5940	1.03(0.89-1.21)	
395.7995	38:21	38:21	0	1.033	30788	5246	1	2	5246		
PCB-186											
393.8025	38:50	38:48	2	1.046	36094	6995	1	2	6995	0.91(0.89-1.21)	
395.7995	38:49	38:48	1	1.045	39575	8243	1	2	8243		
PCB-178											
393.8025	40:12	40:11	0	1.083	23491	4557	1	2	4557	0.92(0.89-1.21)	
395.7995	40:12	40:11	0	1.083	25665	5138	1	2	5138		
PCB-175											
393.8025	40:50	40:49	0	1.100	23301	4772	1	2	4772	0.87(0.89-1.21)	RQ
395.7995	40:50	40:49	1	1.100	26892	5627	1	2	5627		
	Empc Correction				22191	4544	1	2	4544		
PCB-187											
393.8025	41:06	41:05	1	1.107	31206	6098	1	2	6098	1.05(0.89-1.21)	
395.7995	41:07	41:05	2	1.107	29730	5603	1	2	5603		
PCB-182											
393.8025	41:19	41:18	1	1.113	22957	5076	1	2	5076	0.91(0.89-1.21)	
395.7995	41:19	41:18	1	1.113	25235	4469	1	2	4469		
PCB-183											
393.8025	41:43	41:42	1	1.124	59157	5830	1	2	5830		M
395.7995	41:49	41:42	7	1.126	56781	5334	1	2	5334	1.04(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:43	41:42	1	1.124	59157	5830	1	2	5830		M
395.7995	41:49	41:42	7	1.126	56781	5334	1	2	5334	1.04(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											RQ
393.8025	41:57	41:56	1	1.130	25586	6498	1	2	6498		
	Empc Correction				21844	4920	1	2	4920		
395.7995	41:57	41:56	1	1.130	20804	4686	1	2	4686	1.23(0.89-1.21)	
PCB-177											M
393.8025	42:23	42:22	1	1.142	27807	5386	1	2	5386		
395.7995	42:23	42:22	1	1.142	25600	5611	1	2	5611	1.09(0.89-1.21)	M
PCB-181											
393.8025	42:47	42:45	2	1.152	28839	6551	1	2	6551		
395.7995	42:47	42:45	2	1.152	26767	5517	1	2	5517	1.08(0.89-1.21)	
PCB-171											RQ
393.8025	43:01	42:59	2	1.158	61447	9445	1	2	9445		
	Empc Correction				52774	8984	1	2	8984		
395.7995	43:00	42:59	1	1.158	50261	8557	1	2	8557	1.22(0.89-1.21)	
PCB-173 (C171)											RQ
393.8025	43:01	42:59	2	1.158	61447	9445	1	2	9445		
	Empc Correction				52774	8984	1	2	8984		
395.7995	43:00	42:59	1	1.158	50261	8557	1	2	8557	1.22(0.89-1.21)	
PCB-172											
393.8025	44:38	44:37	1	0.900	25813	4966	1	2	4966		
395.7995	44:38	44:37	0	0.899	21380	3770	1	2	3770	1.21(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	35936	6758	1	2	6758		
395.7995	44:55	44:54	1	0.905	39187	7547	1	2	7547	0.92(0.89-1.21)	
PCB-180											
393.8025	45:16	45:14	2	0.912	65744	9105	1	2	9105		
395.7995	45:17	45:14	3	0.913	64705	8318	1	2	8318	1.02(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:16	45:14	2	0.912	65744	9105	1	2	9105		
395.7995	45:17	45:14	3	0.913	64705	8318	1	2	8318	1.02(0.89-1.21)	
PCB-191											
393.8025	45:39	45:37	2	0.920	38736	9026	1	2	9026		
395.7995	45:38	45:37	1	0.920	34236	6204	1	2	6204	1.13(0.89-1.21)	
PCB-170											M
393.8025	46:34	46:32	2	0.938	28044	4293	1	2	4293		M
395.7995	46:32	46:32	0	0.938	23723	4161	1	2	4161	1.18(0.89-1.21)	
PCB-190											
393.8025	47:04	47:02	1	0.948	38910	7847	1	2	7847		
395.7995	47:04	47:02	2	0.949	35673	6687	1	2	6687	1.09(0.89-1.21)	
PCB-189											
393.8025	49:39	49:38	1	1.001	48363	9044	149	372	61		
395.7995	49:39	49:38	1	1.001	49533	8535	78	195	109	0.98(0.89-1.21)	
PCB-202L											
439.8038	42:30	42:28	2	0.821	2410974	447023	31	77	14420		
441.8008	42:30	42:28	2	0.821	2692357	497606	25	62	19904	0.90(0.76-1.02)	



	Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-194L											
	439.8038	51:44	51:43	1		3391392	605680	200	500	3028		
	441.8008	51:44	51:43	1		3763396	664861	236	590	2817	0.90(0.76-1.02)	
	PCB-205L											
	439.8038	52:13	52:11	1	1.009	4007068	750604	200	500	3753		
	441.8008	52:13	52:11	1	1.009	4459878	834655	236	590	3537	0.90(0.76-1.02)	
	PCB-202											
	427.7635	42:31	42:29	2	1.001	24187	5182	25	62	207		
	429.7606	42:31	42:29	1	1.000	26882	4715	20	50	236	0.90(0.76-1.02)	
	PCB-201											
	427.7635	43:26	43:25	1	1.022	25699	5628	25	62	225		RQ
		Empc Correction				22243	4728	25	62	189		
	429.7606	43:26	43:25	1	1.022	24993	5313	20	50	266	1.03(0.76-1.02)	
	PCB-204											
	427.7635	44:07	44:05	2	1.038	27131	5525	25	62	221		RQ
		Empc Correction				23488	4643	25	62	186		
	429.7606	44:08	44:05	3	1.038	26392	5217	20	50	261	1.03(0.76-1.02)	
	PCB-197											
	427.7635	44:20	44:19	1	1.043	30198	5351	25	62	214		RQ
		Empc Correction				25907	6117	25	62	245		
	429.7606	44:19	44:19	0	1.043	29109	6874	20	50	344	1.04(0.76-1.02)	
	PCB-200											
	427.7635	44:27	44:25	1	1.046	20266	4644	25	62	186		RQ
	429.7606	44:27	44:25	1	1.046	32789	5905	20	50	295	0.62(0.76-1.02)	
		Empc Correction				22770	5217	20	50	261		
	PCB-198											
	427.7635	47:12	47:12	0	1.111	41819	6070	25	62	243		
	429.7606	47:13	47:12	1	1.111	46314	6928	20	50	346	0.90(0.76-1.02)	
	PCB-199 (C198)											
	427.7635	47:12	47:12	0	1.111	41819	6070	25	62	243		
	429.7606	47:13	47:12	1	1.111	46314	6928	20	50	346	0.90(0.76-1.02)	
	PCB-196											
	427.7635	47:54	47:53	1	0.917	20422	4369	25	62	175		
	429.7606	47:54	47:53	1	0.917	20849	3671	20	50	184	0.98(0.76-1.02)	
	PCB-203											
	427.7635	48:06	48:05	1	0.921	21176	4041	25	62	162		
	429.7606	48:06	48:05	1	0.921	23950	5332	20	50	267	0.88(0.76-1.02)	
	PCB-195											
	427.7635	49:24	49:23	1	0.946	36050	6413	75	187	86		M
	429.7606	49:24	49:23	1	0.946	38418	7430	79	197	94	0.94(0.76-1.02)	M
	PCB-194											
	427.7635	51:47	51:44	2	0.992	38886	6674	75	187	89		
	429.7606	51:46	51:44	1	0.991	45707	8995	79	197	114	0.85(0.76-1.02)	
	PCB-205											
	427.7635	52:13	52:13	1	1.000	47399	9141	75	187	122		
	429.7606	52:15	52:13	2	1.001	46784	7912	79	197	100	1.01(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208L											
473.7648	49:10	49:09	1	0.950	3048337	549815	593	1482	927		
475.7619	49:10	49:09	1	0.950	3709649	691649	736	1840	940	0.82(0.65-0.89)	
PCB-206L											
473.7648	53:58	53:57	1	1.043	2213992	401420	593	1482	677		
475.7619	53:58	53:57	1	1.043	2694765	476469	736	1840	647	0.82(0.65-0.89)	
PCB-208											
461.7246	49:12	49:10	2	1.001	31684	6235	190	475	33		M
463.7216	49:11	49:10	1	1.001	47975	9524	451	1127	21	0.66(0.65-0.89)	M
PCB-207											
461.7246	50:06	50:05	1	1.019	36477	7014	190	475	37		M
463.7216	50:07	50:05	2	1.020	43355	7763	451	1127	17	0.84(0.65-0.89)	M
PCB-206											
461.7246	53:59	53:58	1	1.000	28296	5591	190	475	29		M
463.7216	53:59	53:58	1	1.000	39161	6640	451	1127	15	0.72(0.65-0.89)	M
PCB-209L											
507.7258	55:36	55:34	2	1.075	1971427	348436	103	257	3383		
509.7229	55:36	55:34	2	1.075	2757597	466485	62	155	7524	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:37	55:36	1	1.000	21443	4804	8	20	601		
497.6826	55:38	55:36	2	1.000	30397	6121	11	27	556	0.71(0.59-0.79)	

**QC Flag Legend**

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

61L11668P\_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

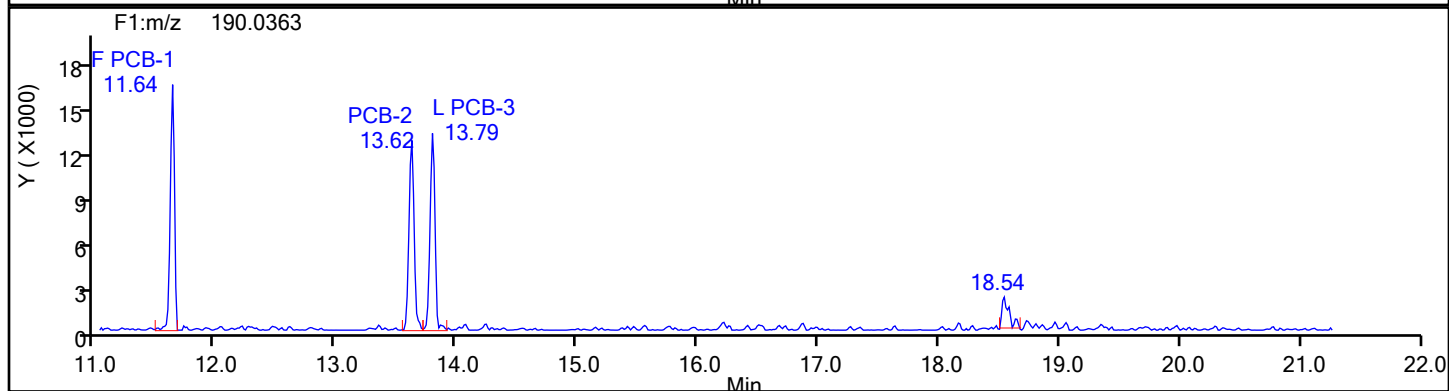
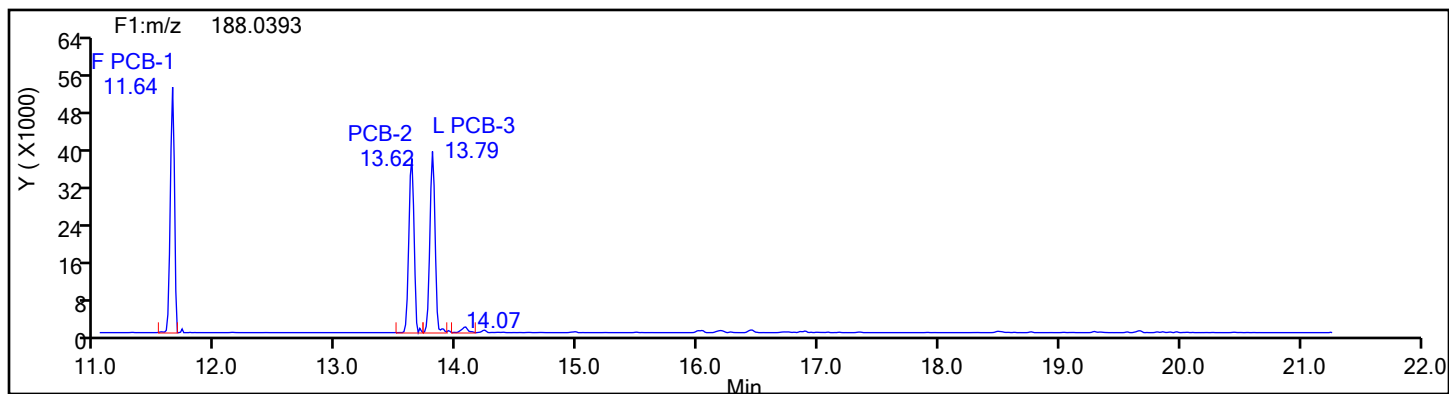
Worklist#: 87130

Sample Line#: 2

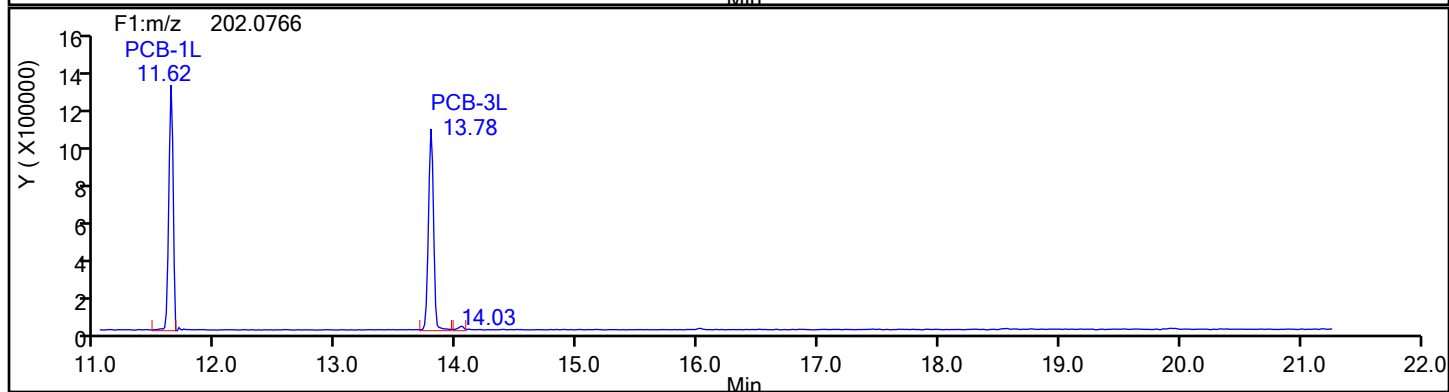
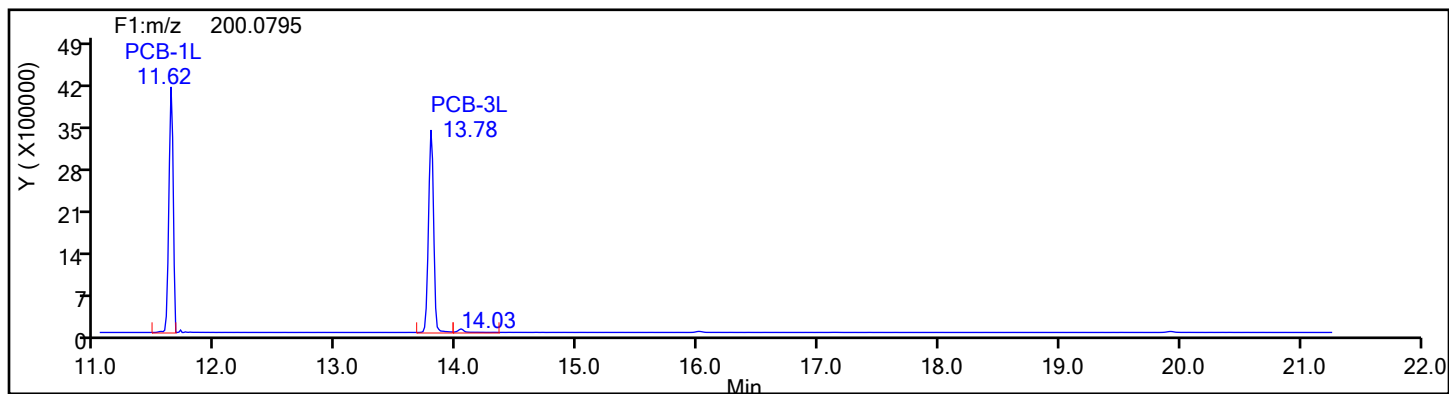
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

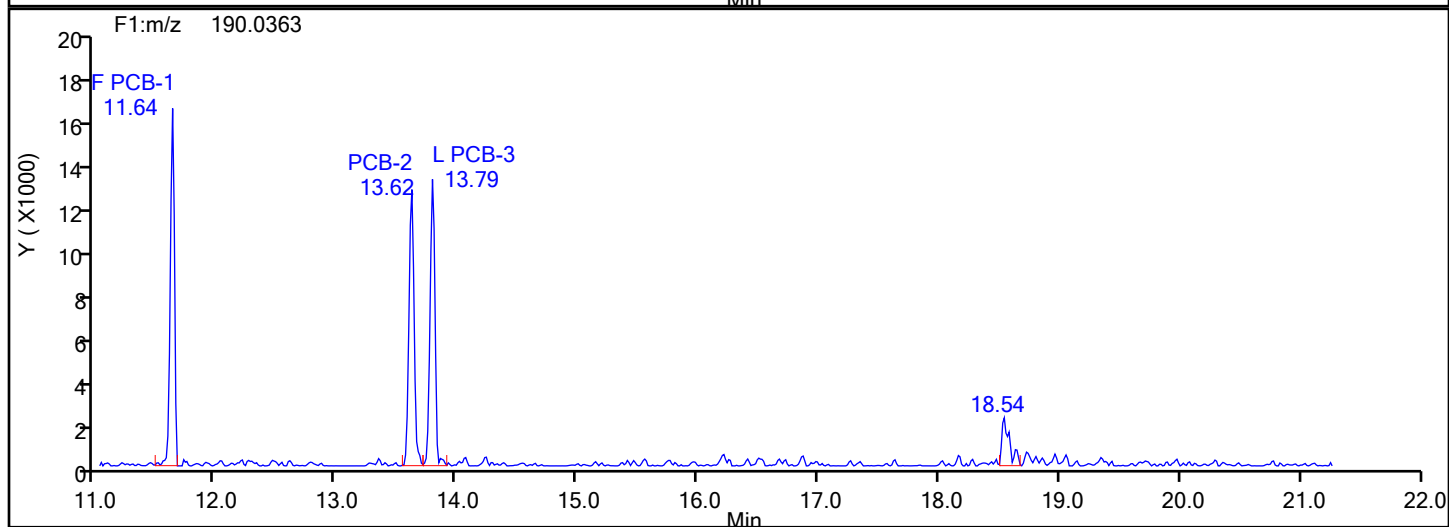
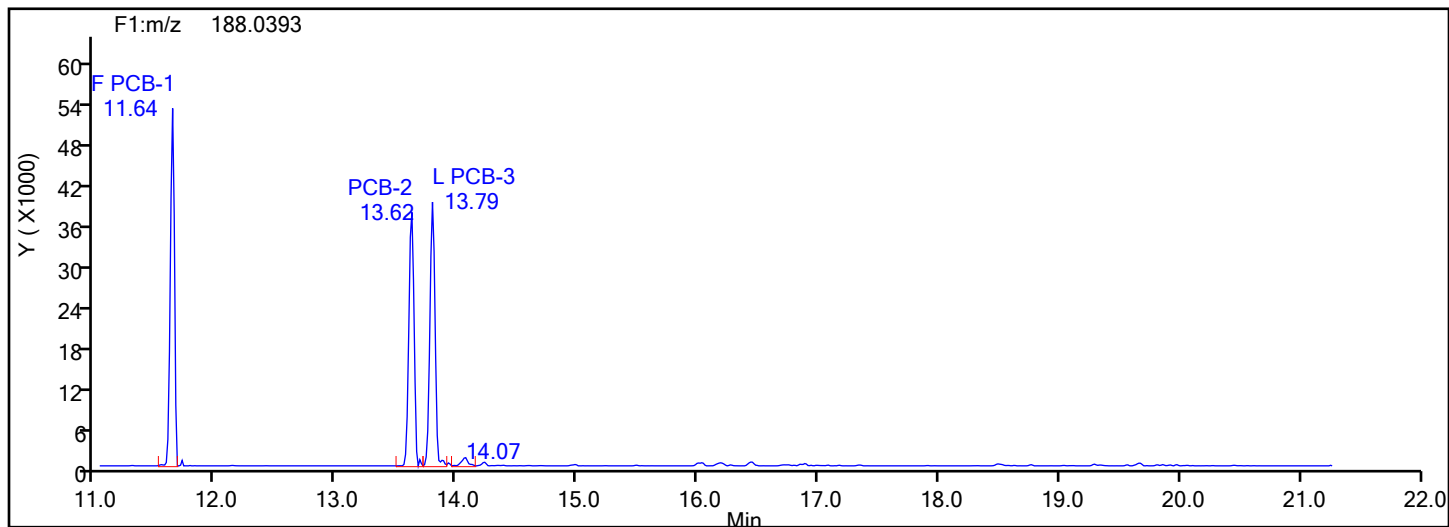
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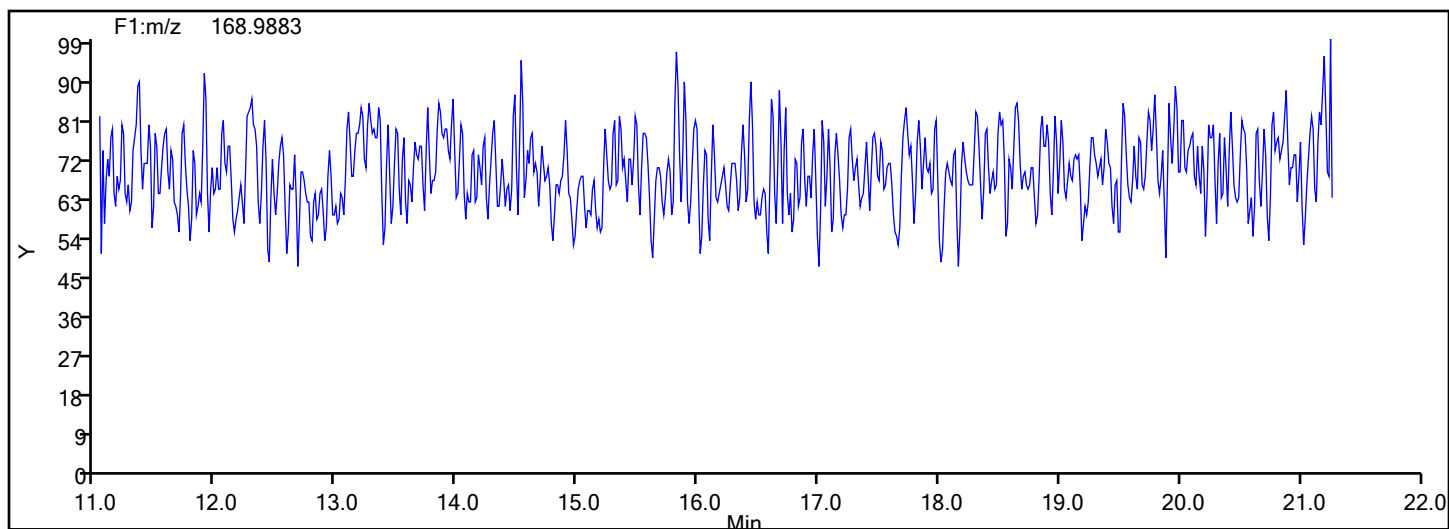
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

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Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

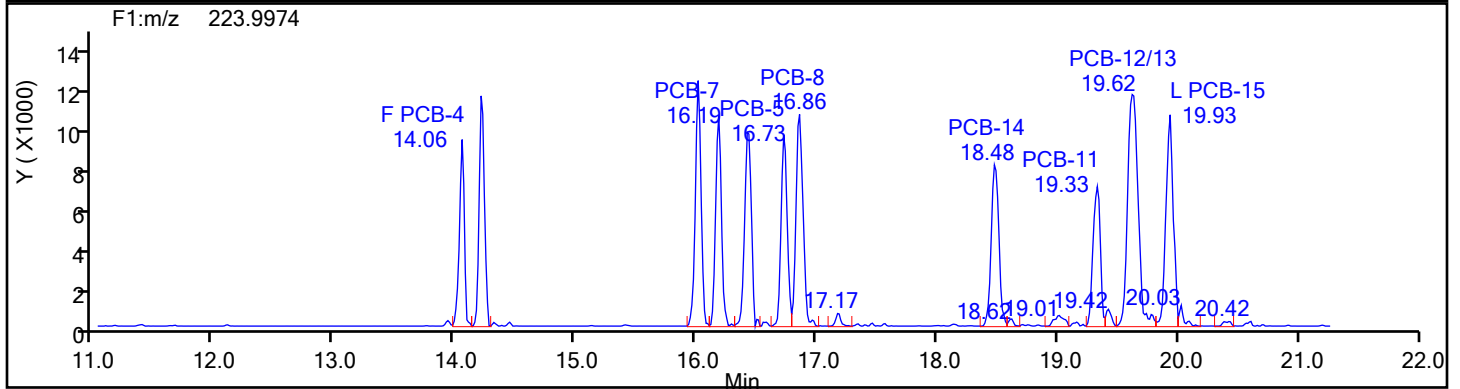
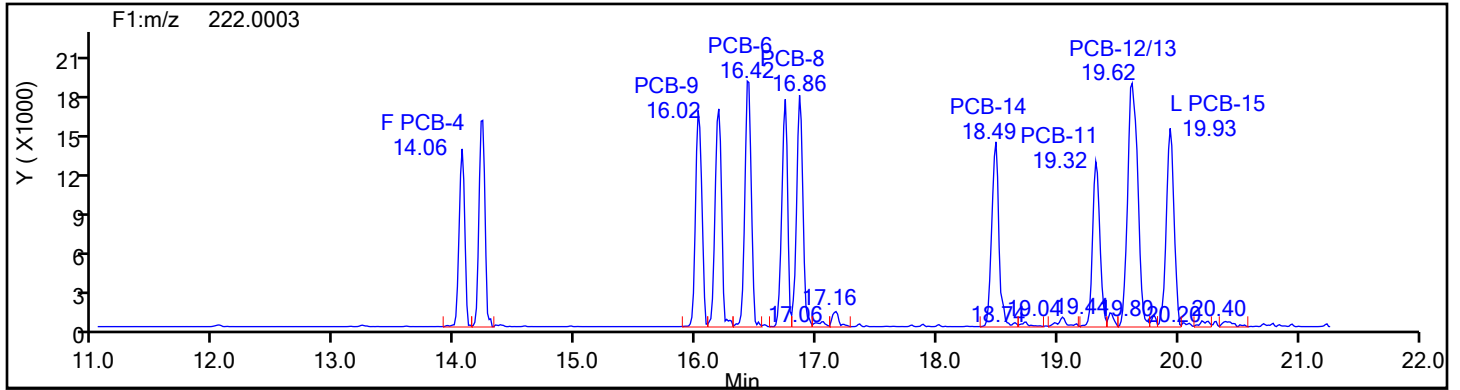
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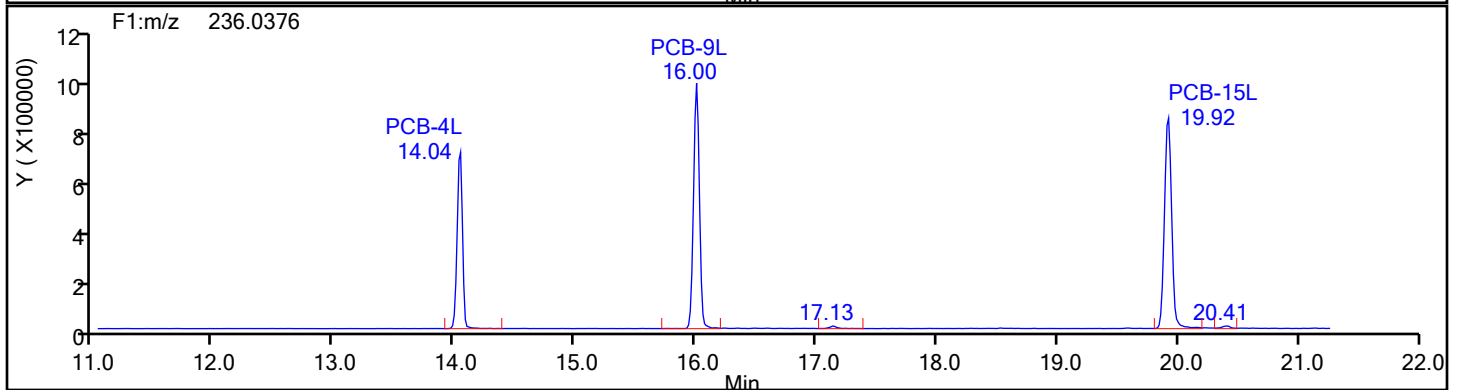
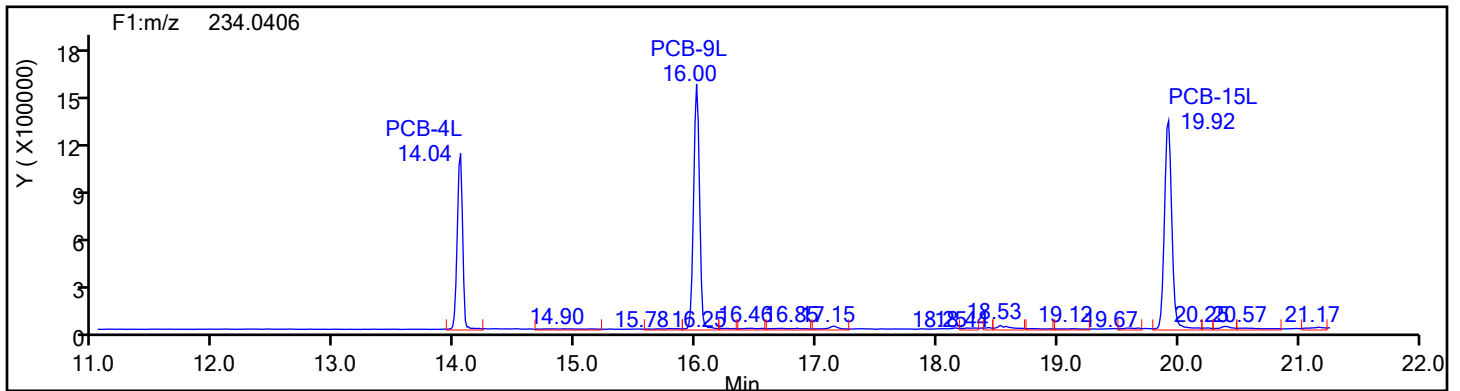
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

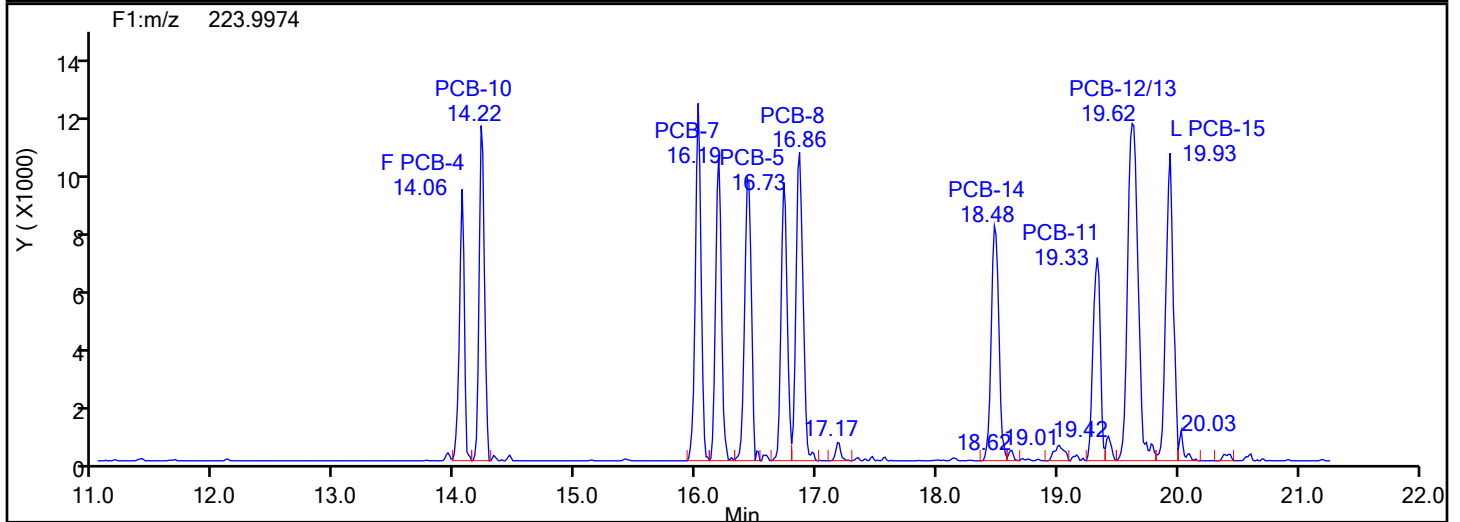
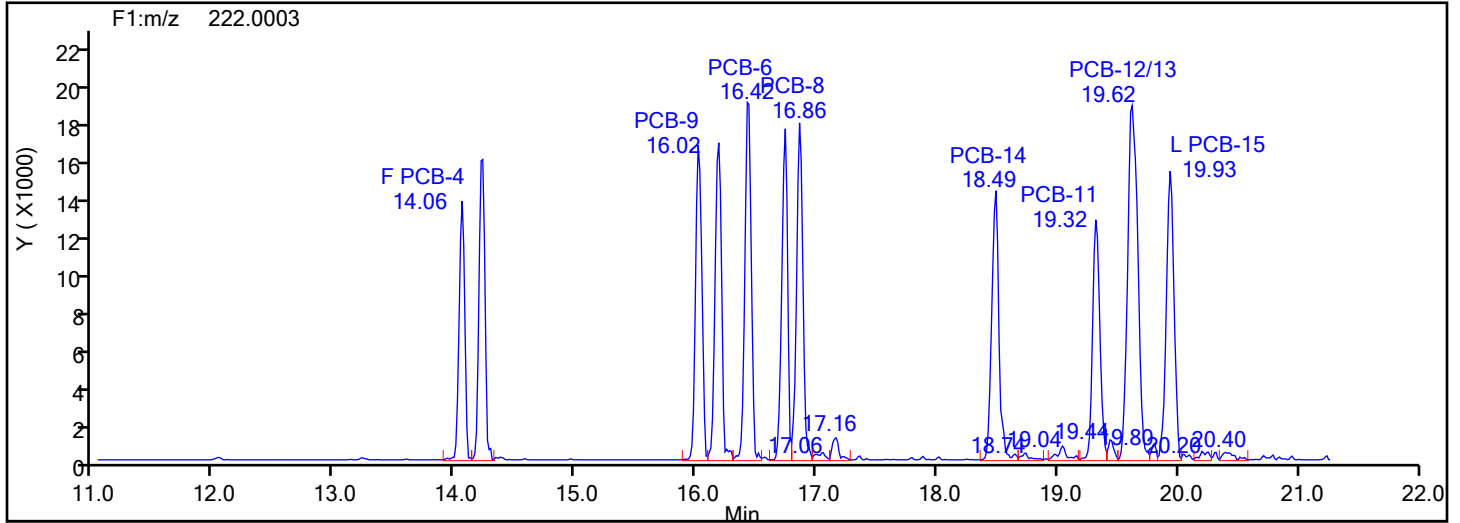
Worklist#: 87130

Sample Line#: 2

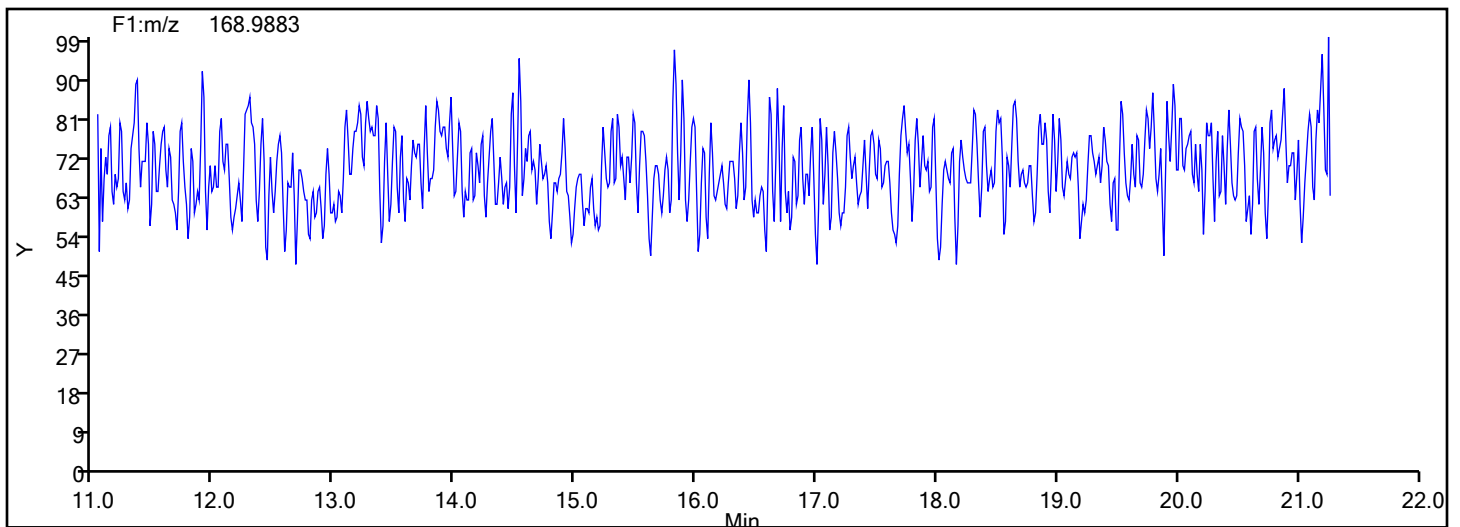
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

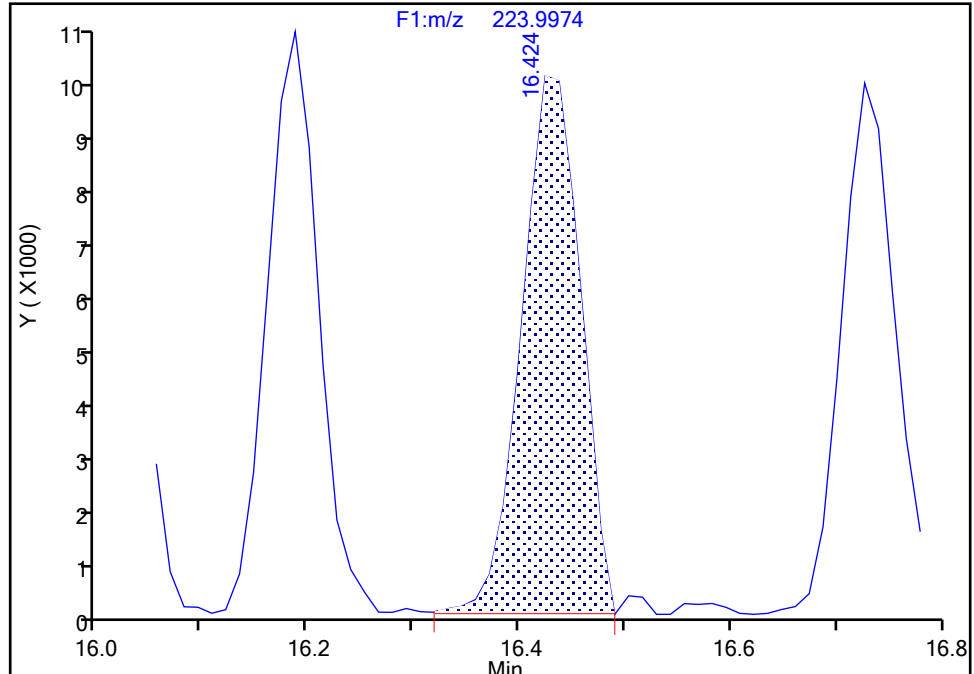
Detector F1(11.07 :21.70 )

**PCB-6, CAS: 25569-80-6**

Signal: 2

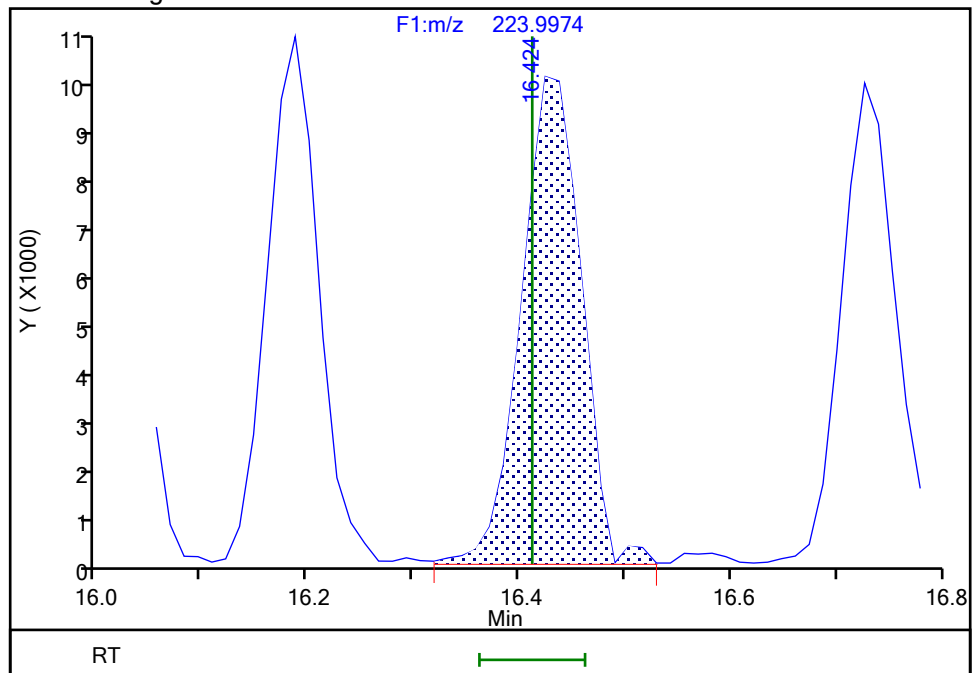
RT: 16.42  
Area: 37615  
Amount: 0.998581  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.42  
Area: 38133  
Amount: 0.989120  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:42:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

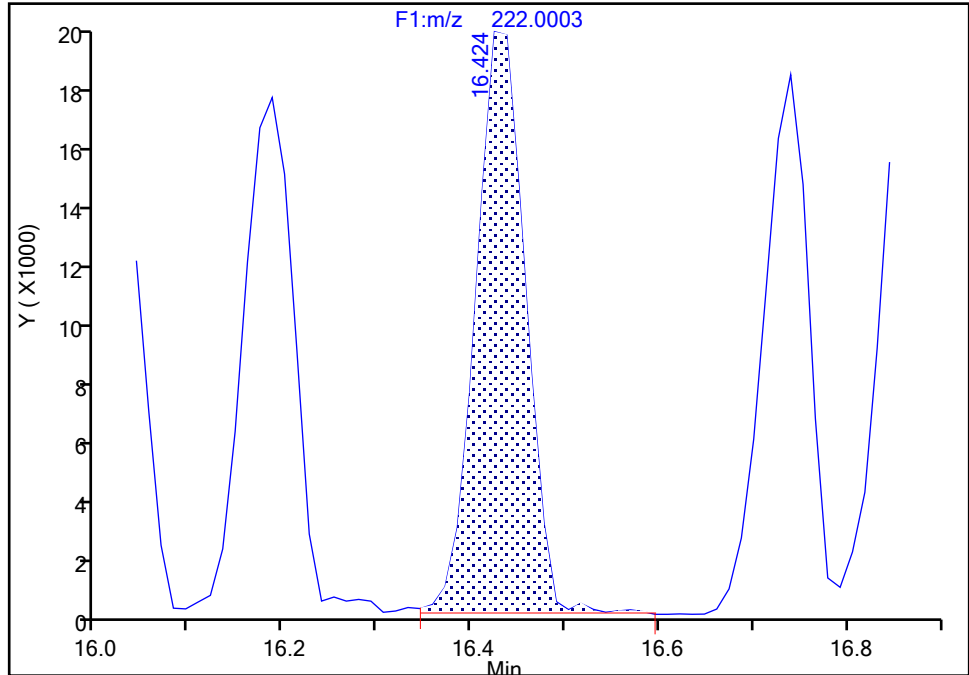
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F1(11.07 :21.70 )

PCB-6, CAS: 25569-80-6

Signal: 1

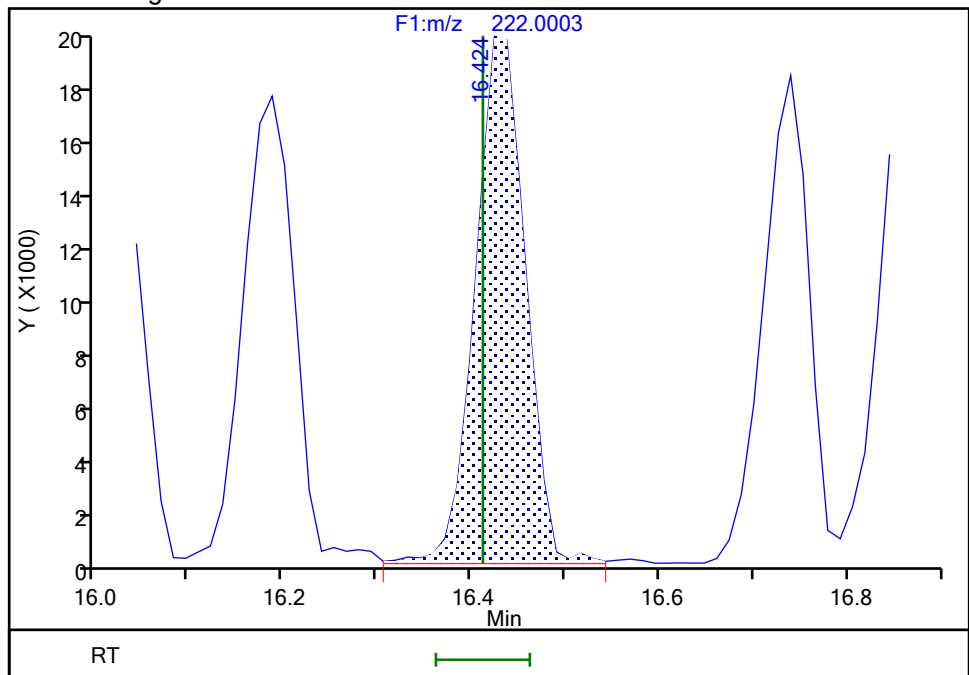
RT: 16.42  
Area: 70677  
Amount: 0.998581  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.42  
Area: 70638  
Amount: 0.989120  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:42:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024062  
9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

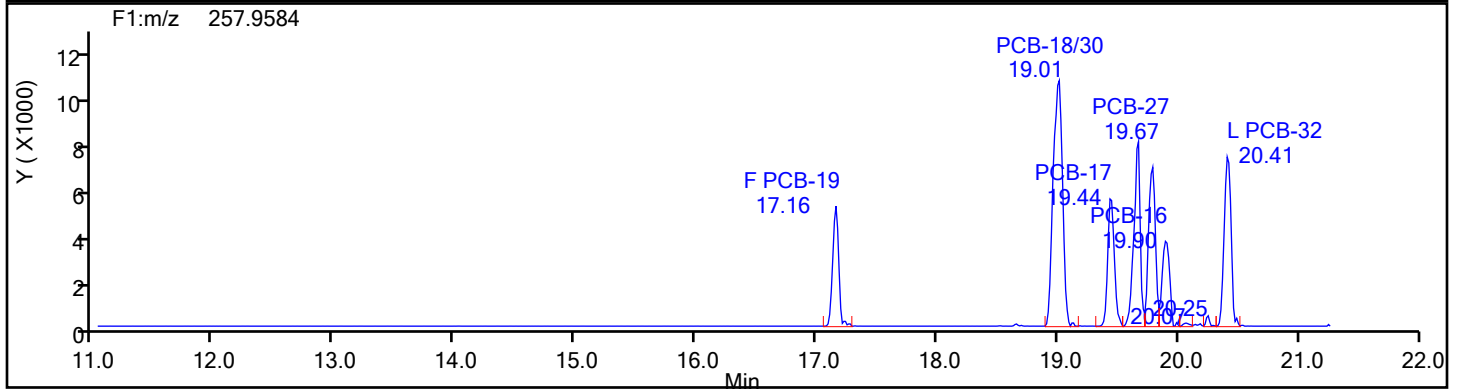
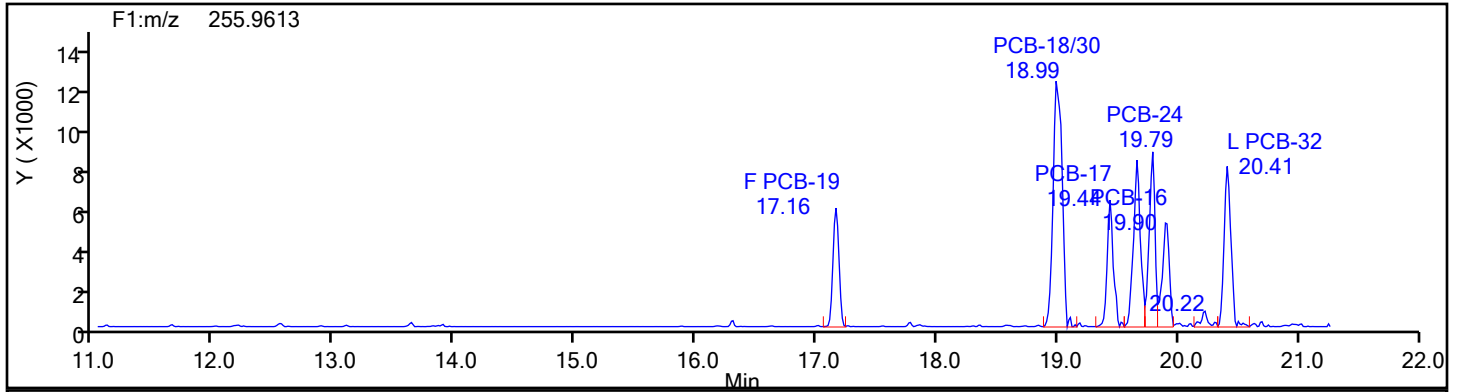
Worklist#: 87130

Sample Line#: 2

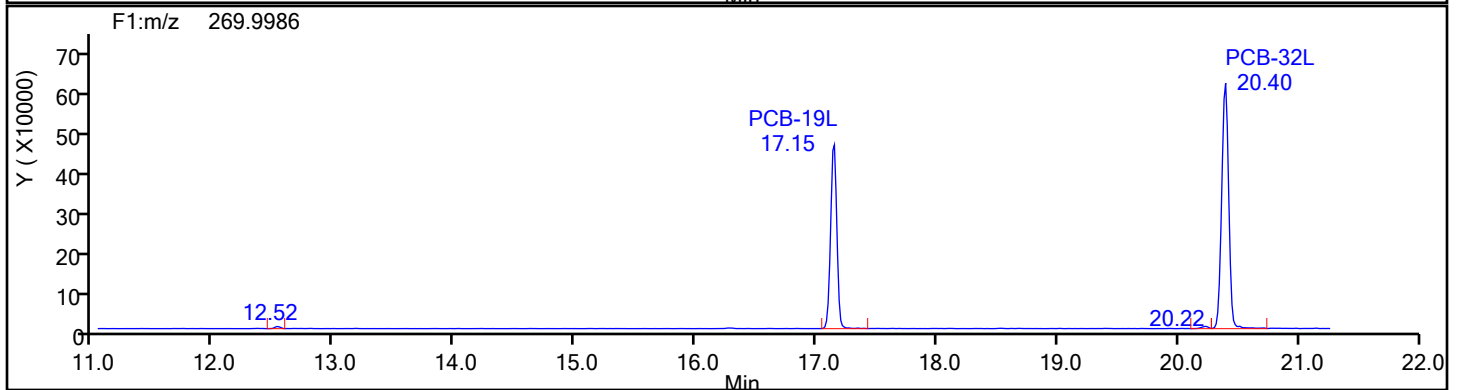
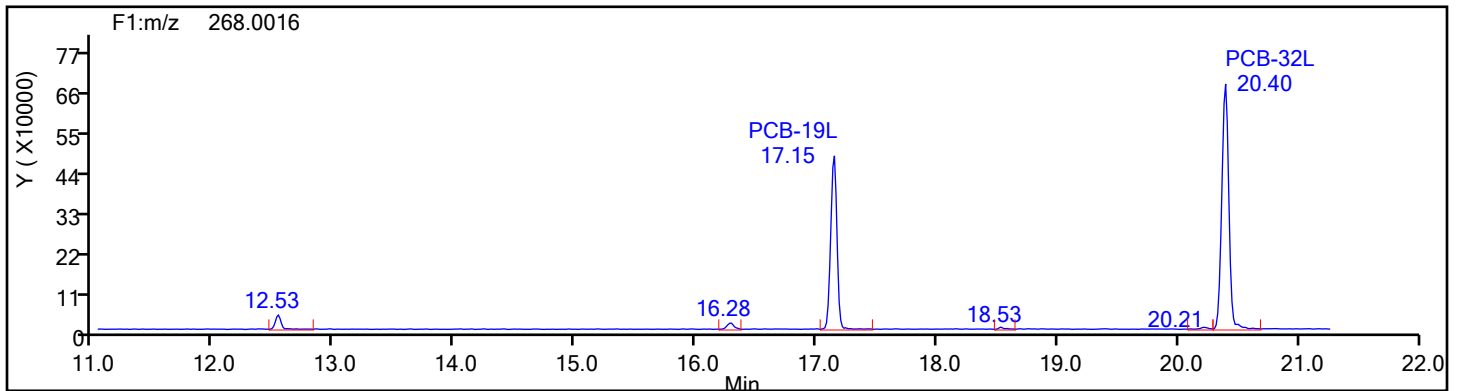
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

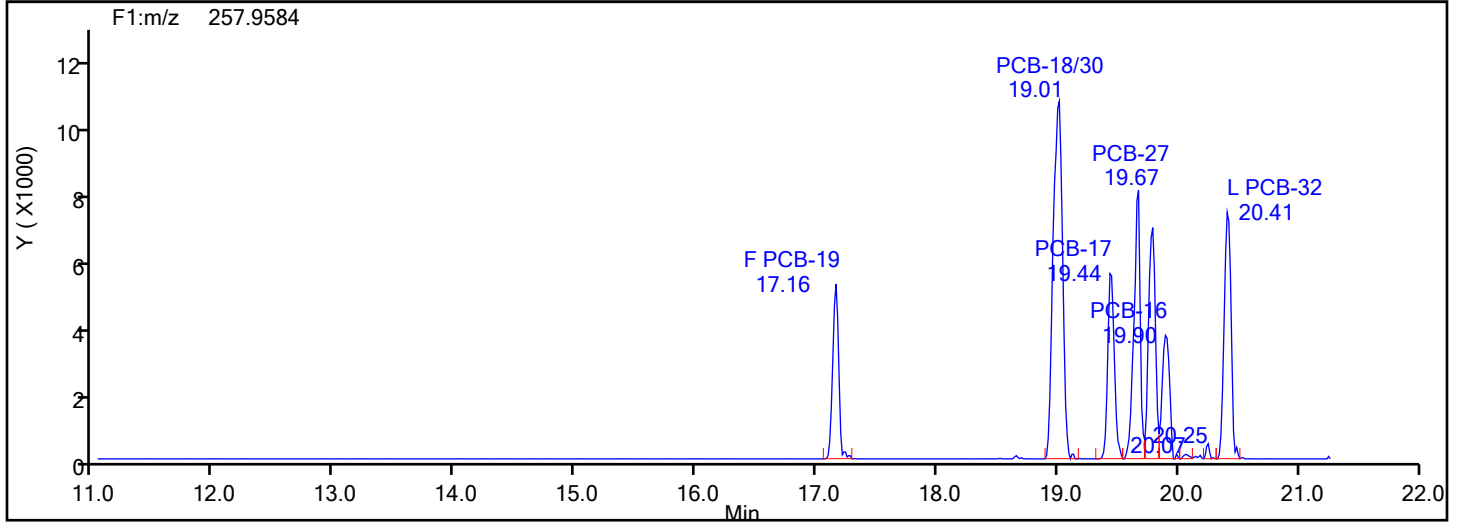
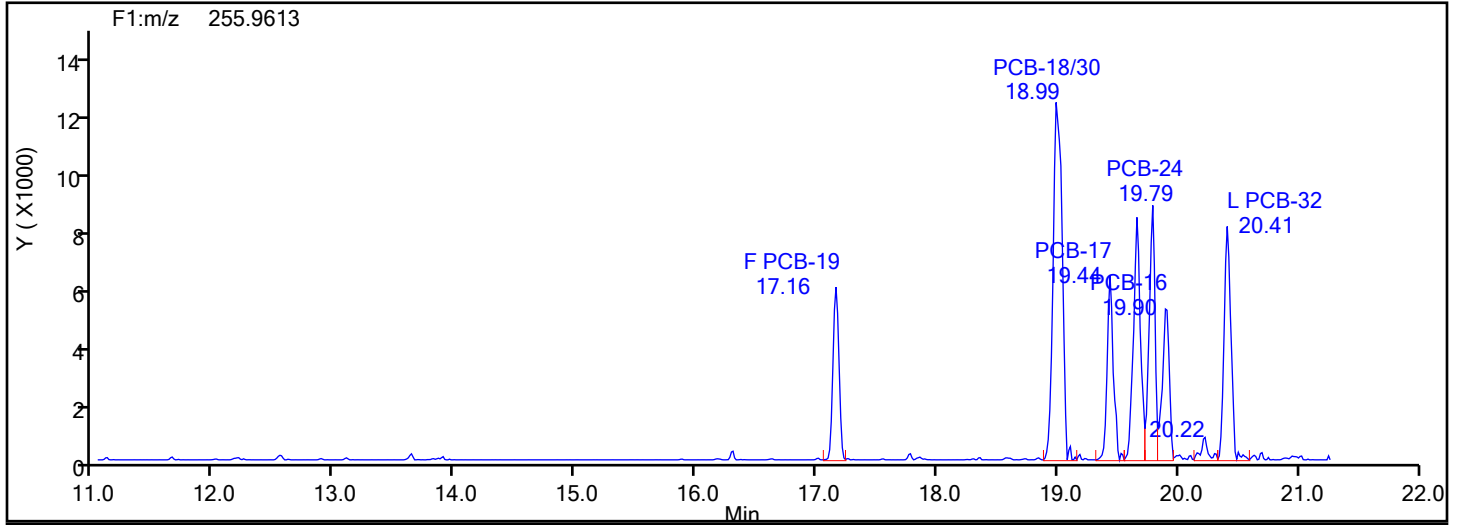
Worklist#: 87130

Sample Line#: 2

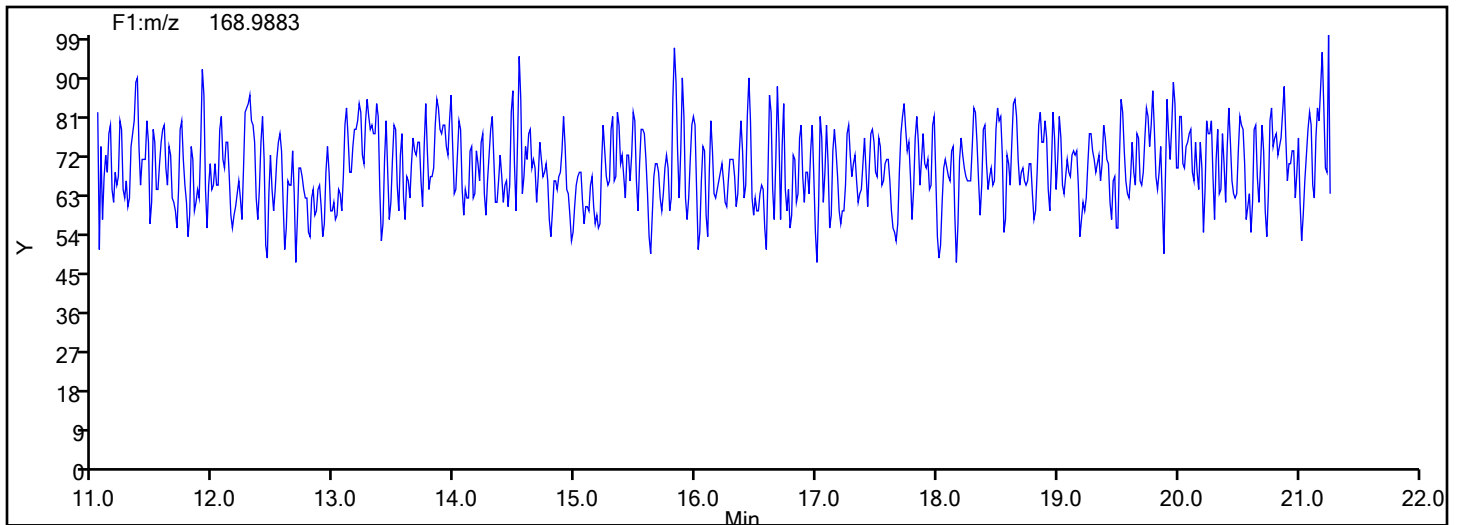
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

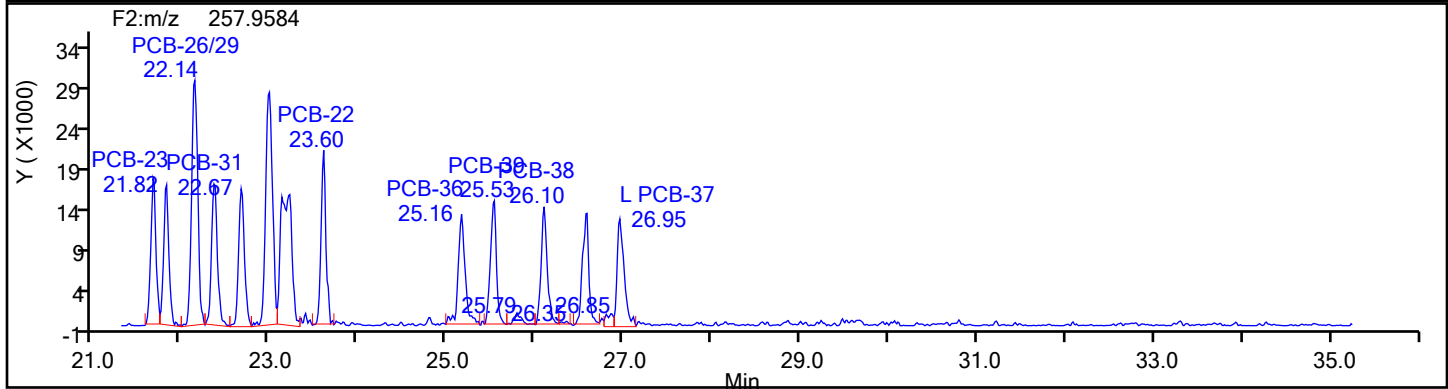
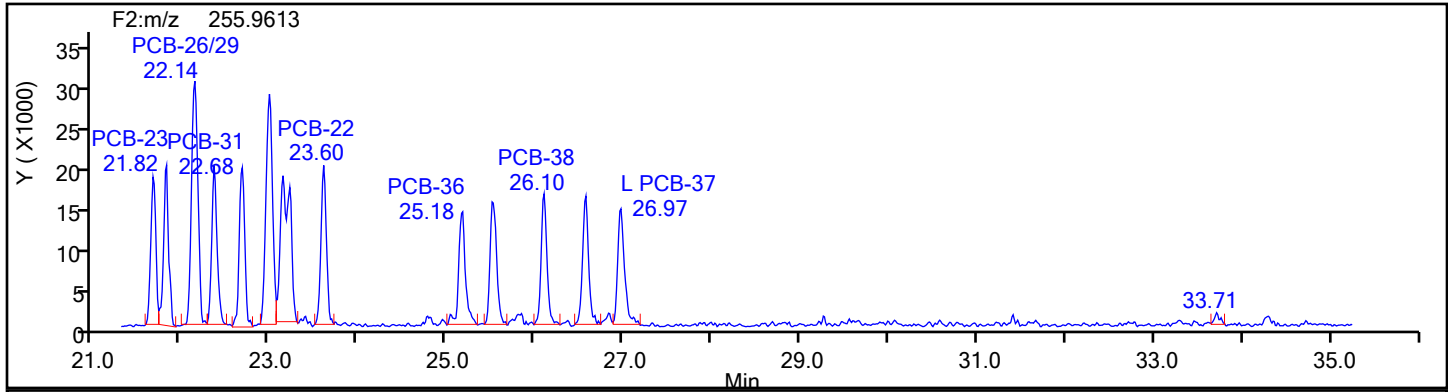
Worklist#: 87130

Sample Line#: 2

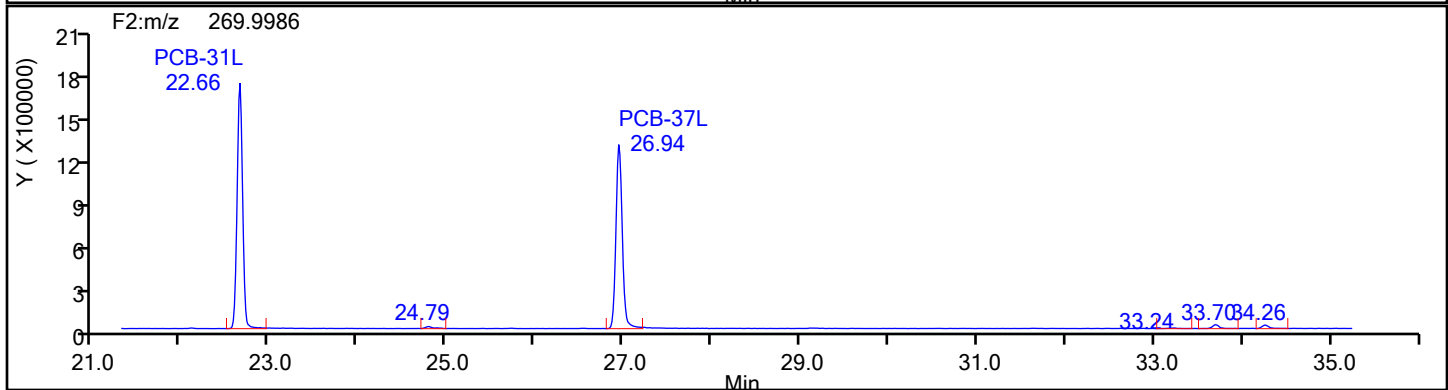
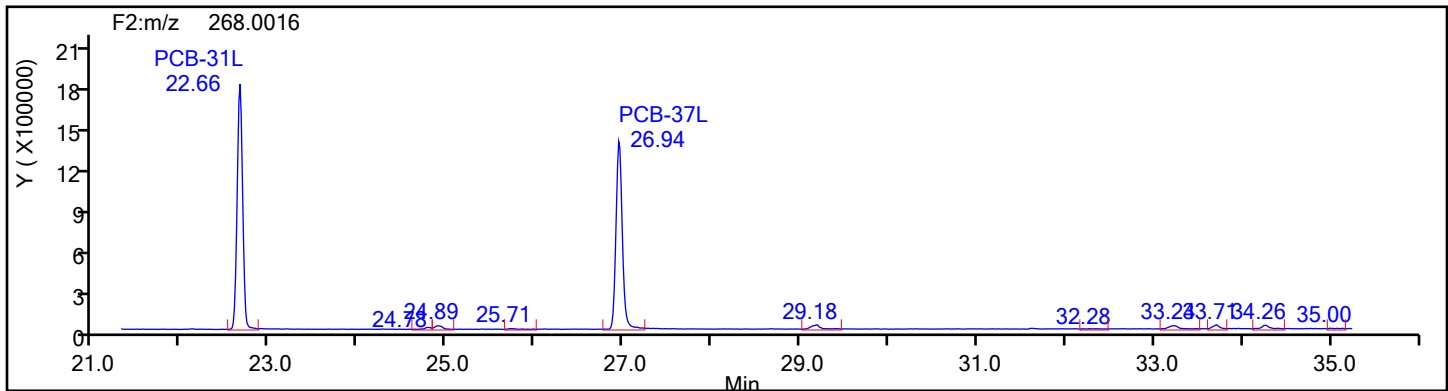
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

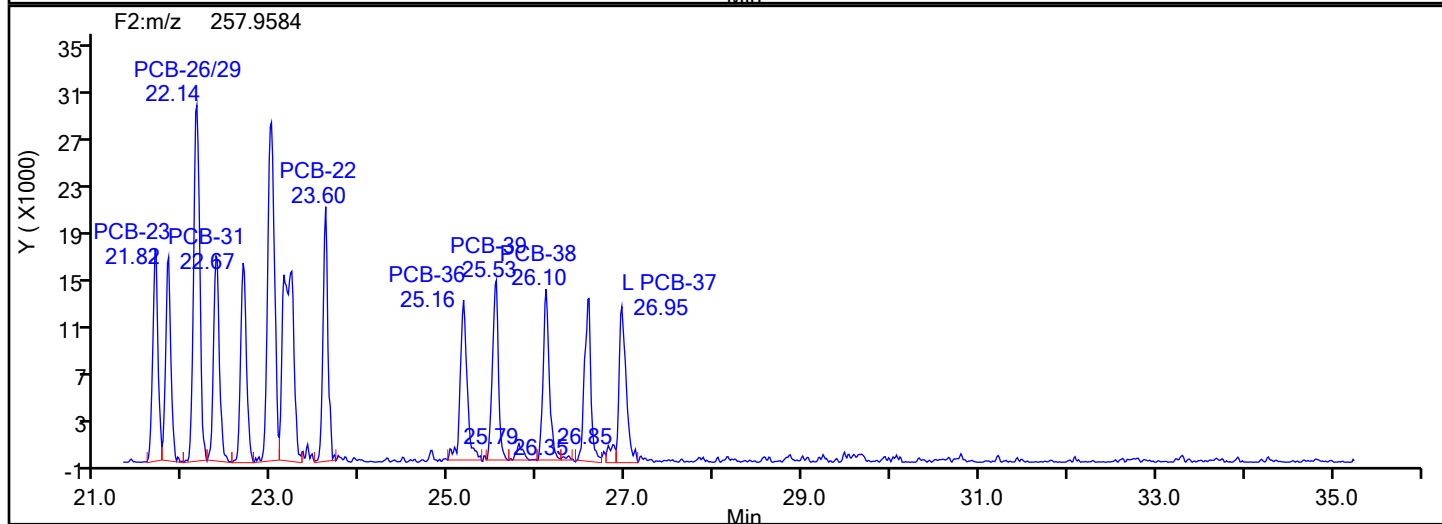
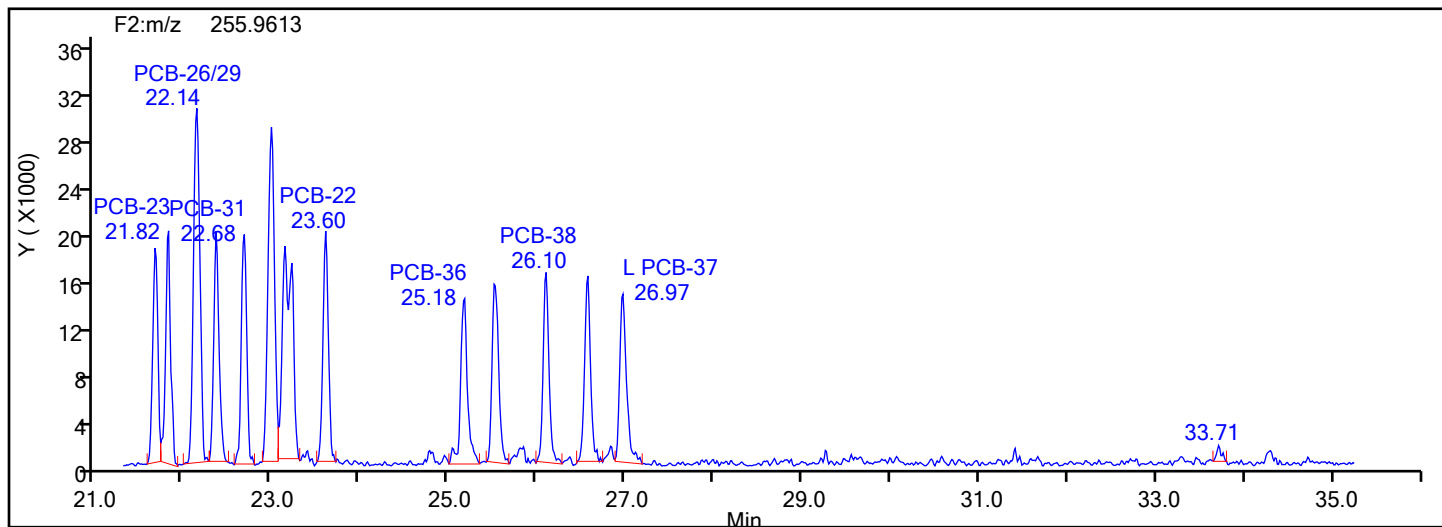
Worklist#: 87130

Sample Line#: 2

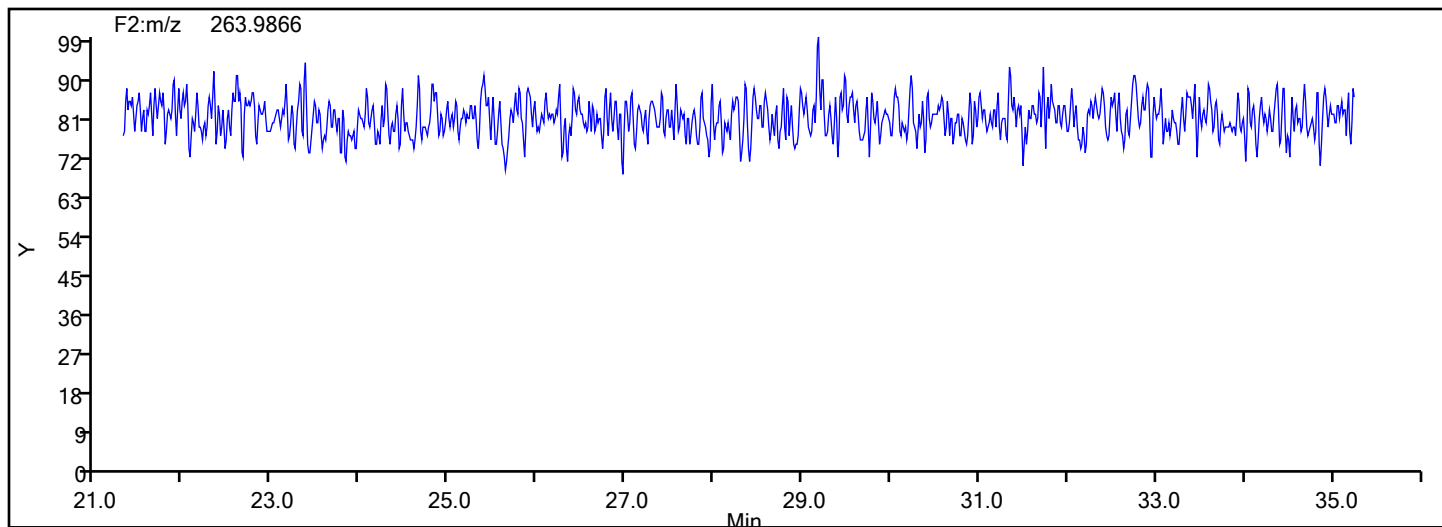
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

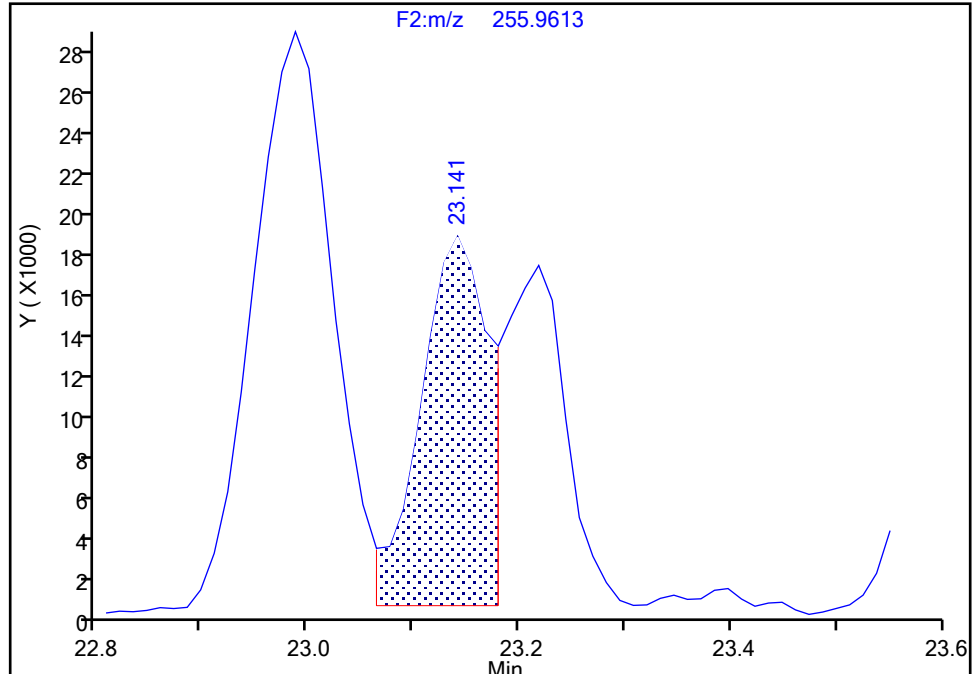
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

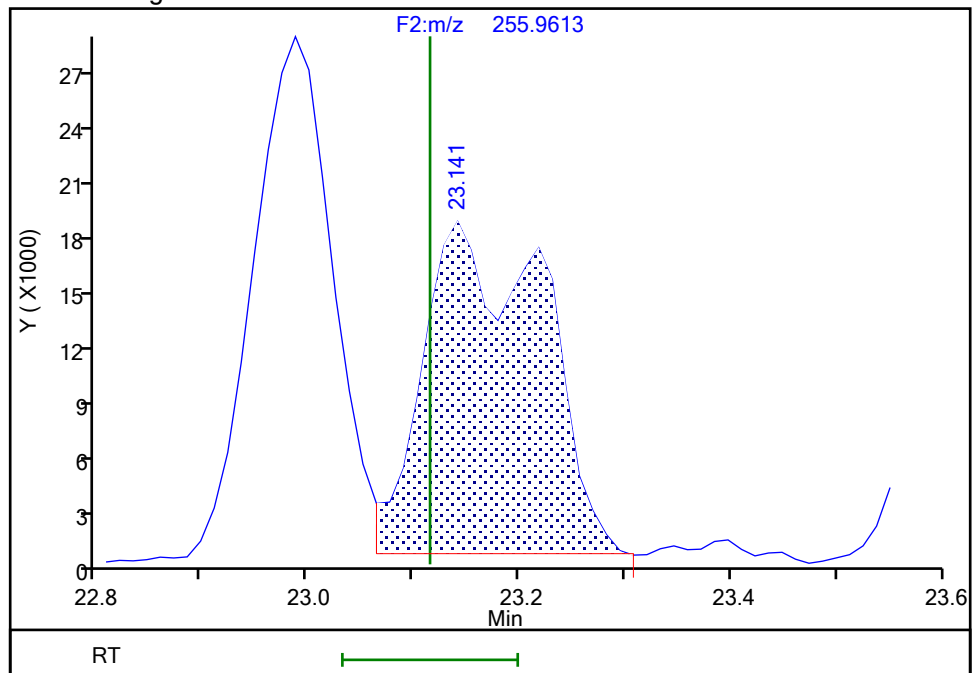
RT: 23.14  
Area: 78248  
Amount: 1.094563  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.14  
Area: 142636  
Amount: 1.979659  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:02:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

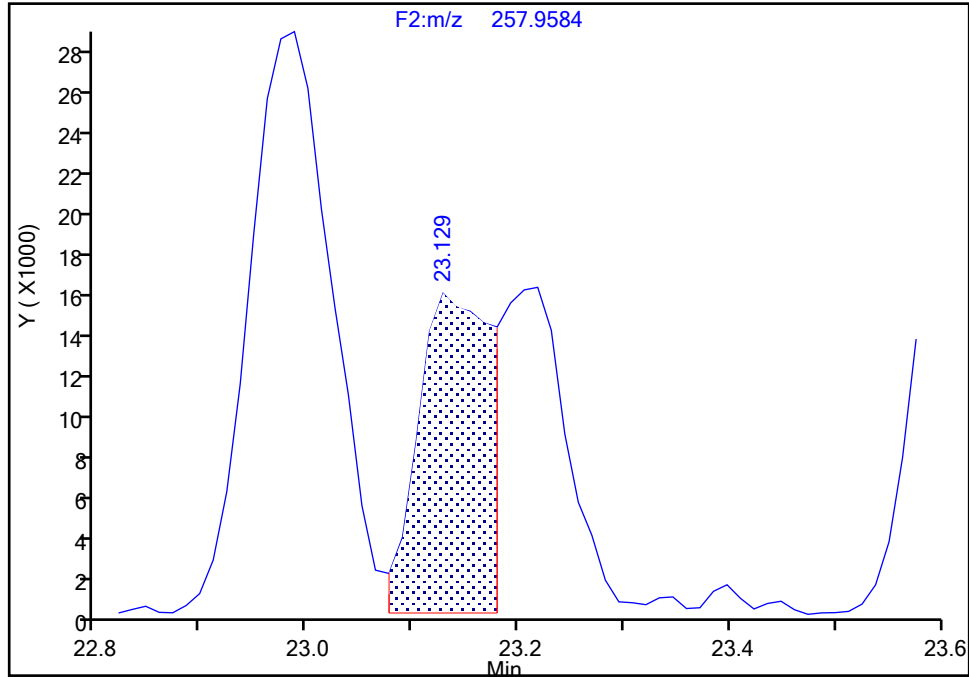
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

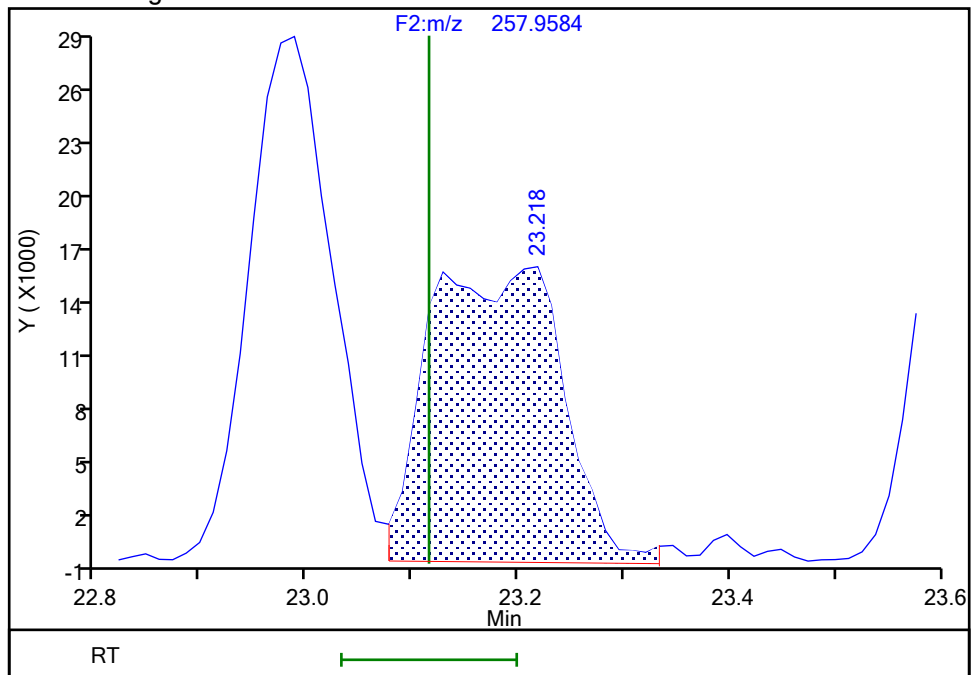
RT: 23.13  
Area: 70581  
Amount: 1.094563  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.22  
Area: 139356  
Amount: 1.979659  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:02:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-F-2024-068  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

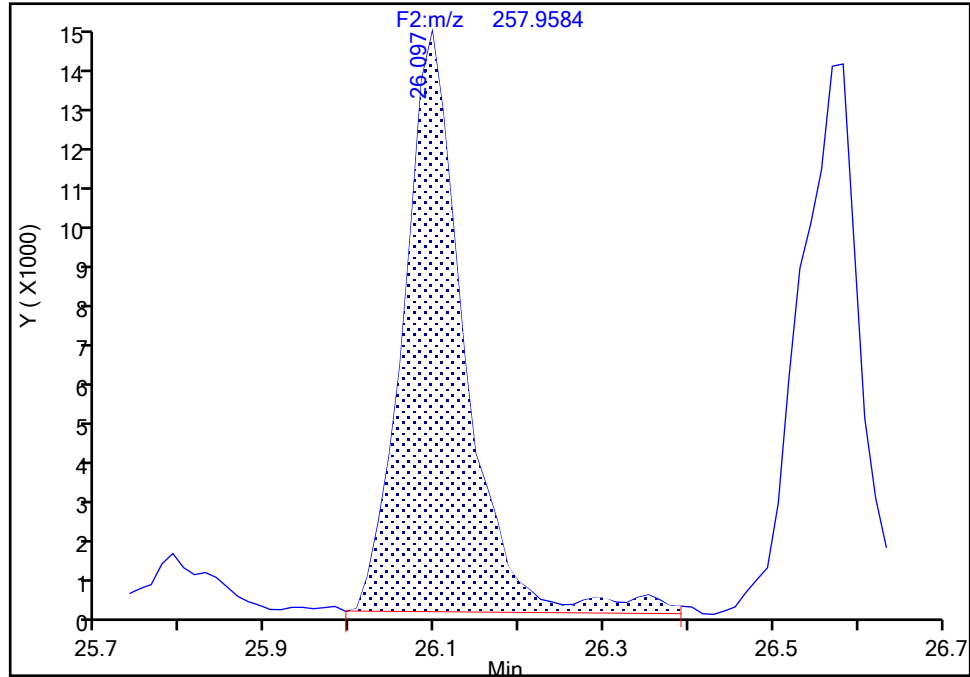
Detector F2(21.81 :35.54 )

**PCB-38, CAS: 53555-66-1**

Signal: 2

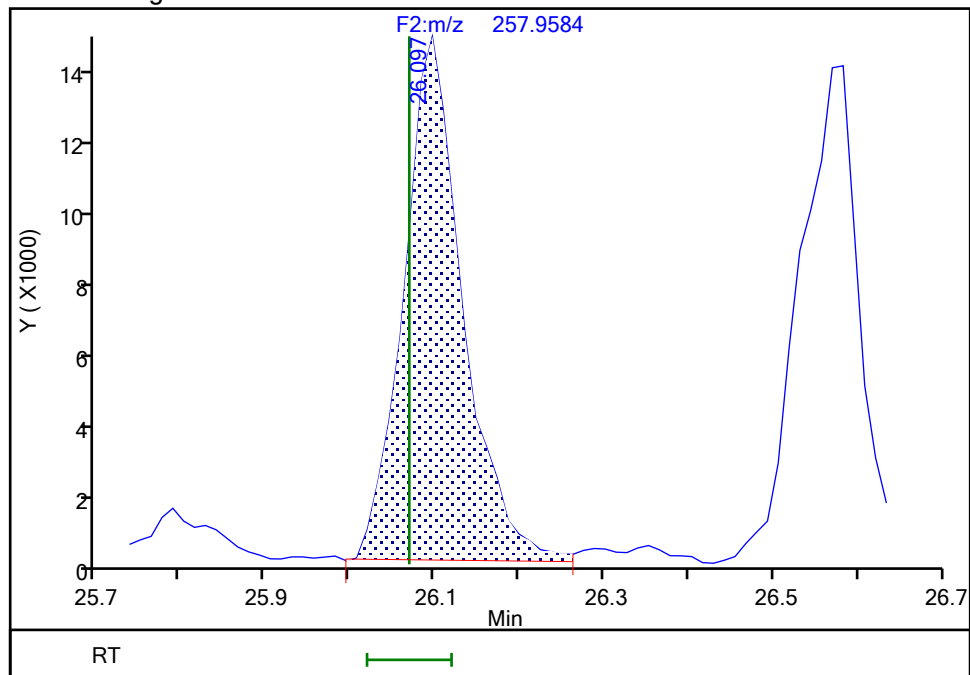
RT: 26.10  
Area: 70957  
Amount: 0.971249  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.10  
Area: 68696  
Amount: 0.992448  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:34:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

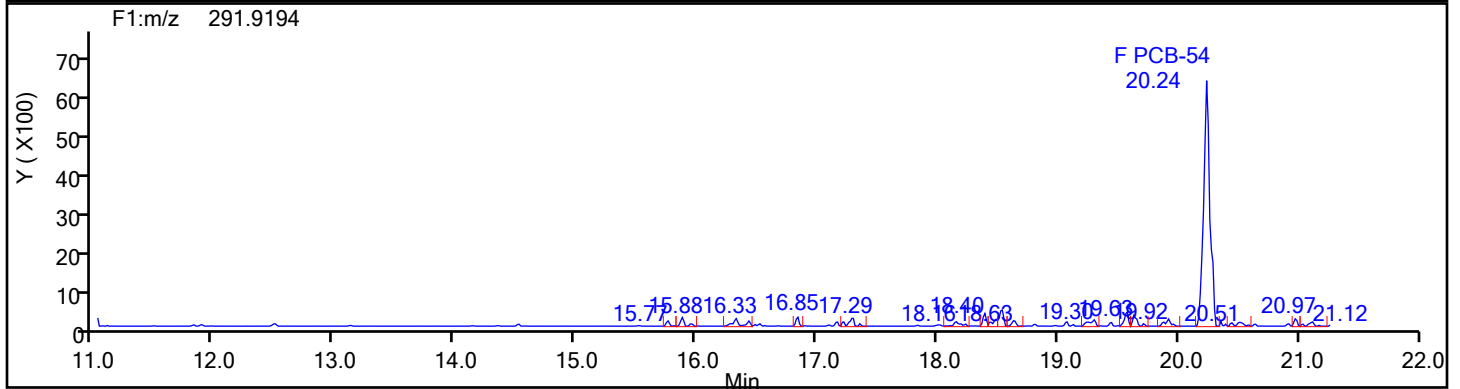
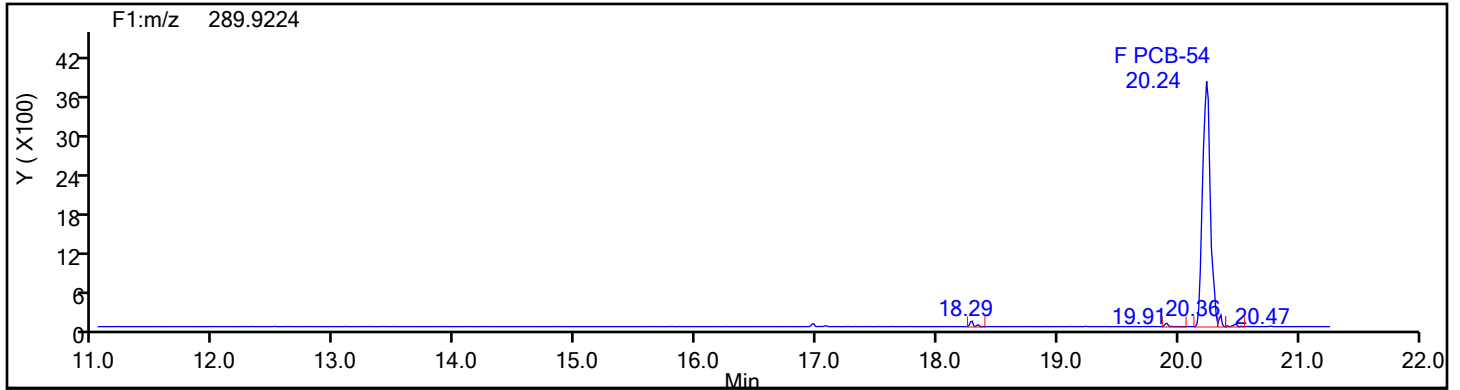
Worklist#: 87130

Sample Line#: 2

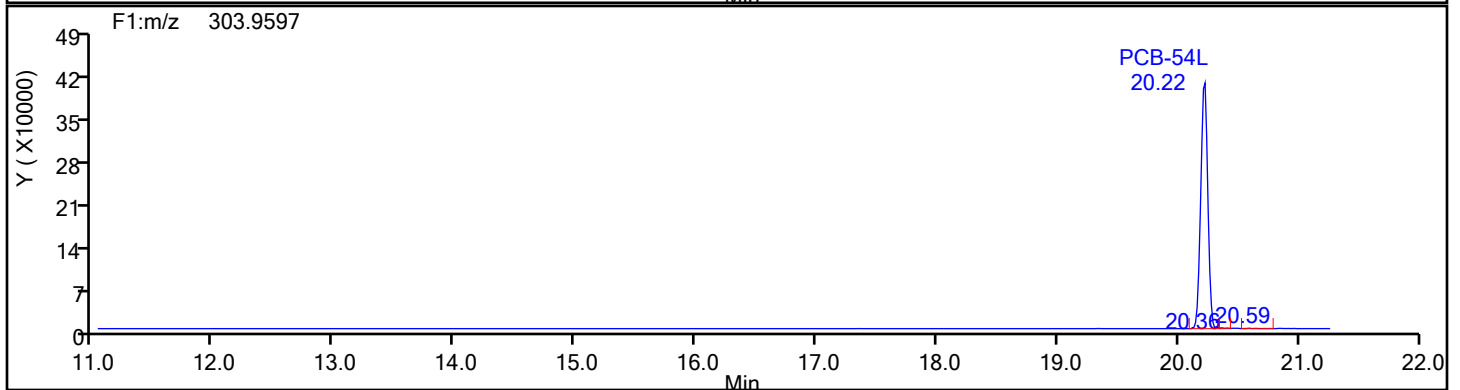
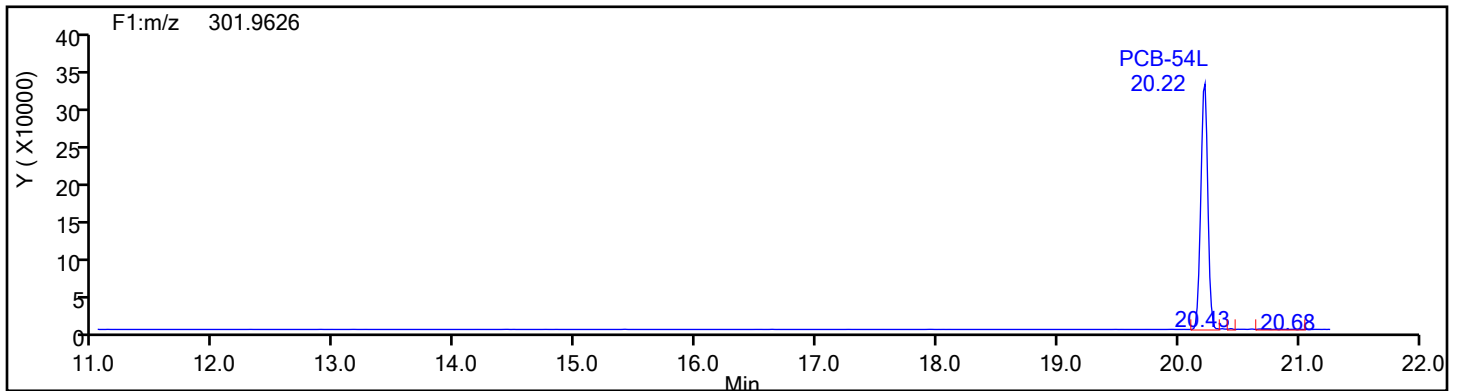
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

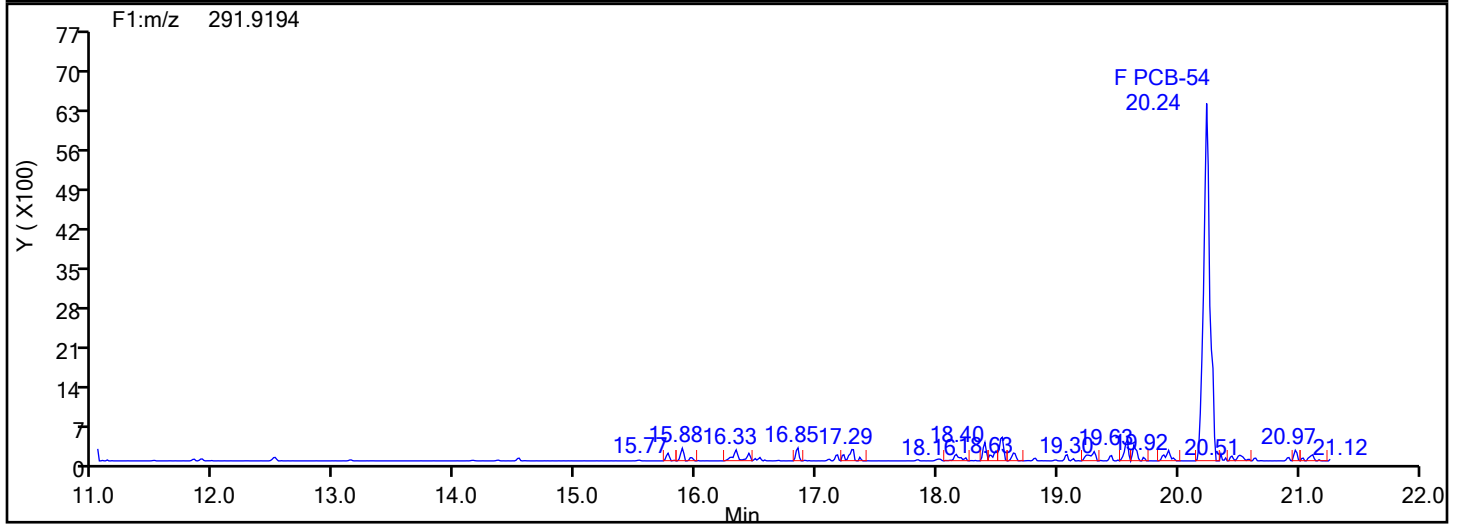
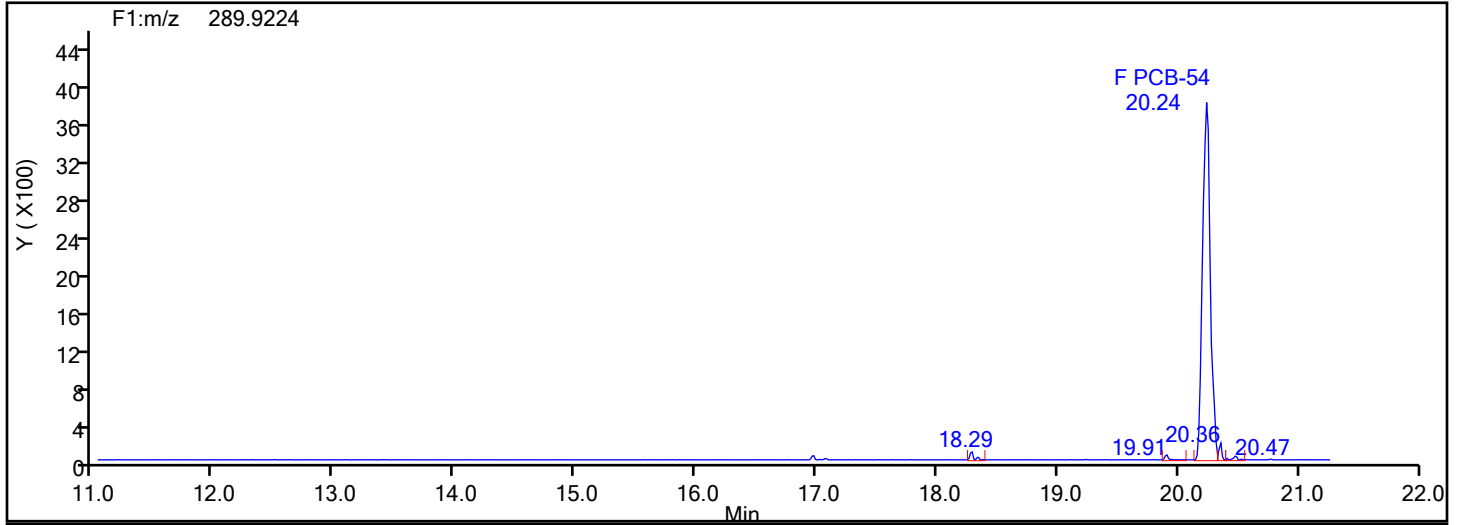
Worklist#: 87130

Sample Line#: 2

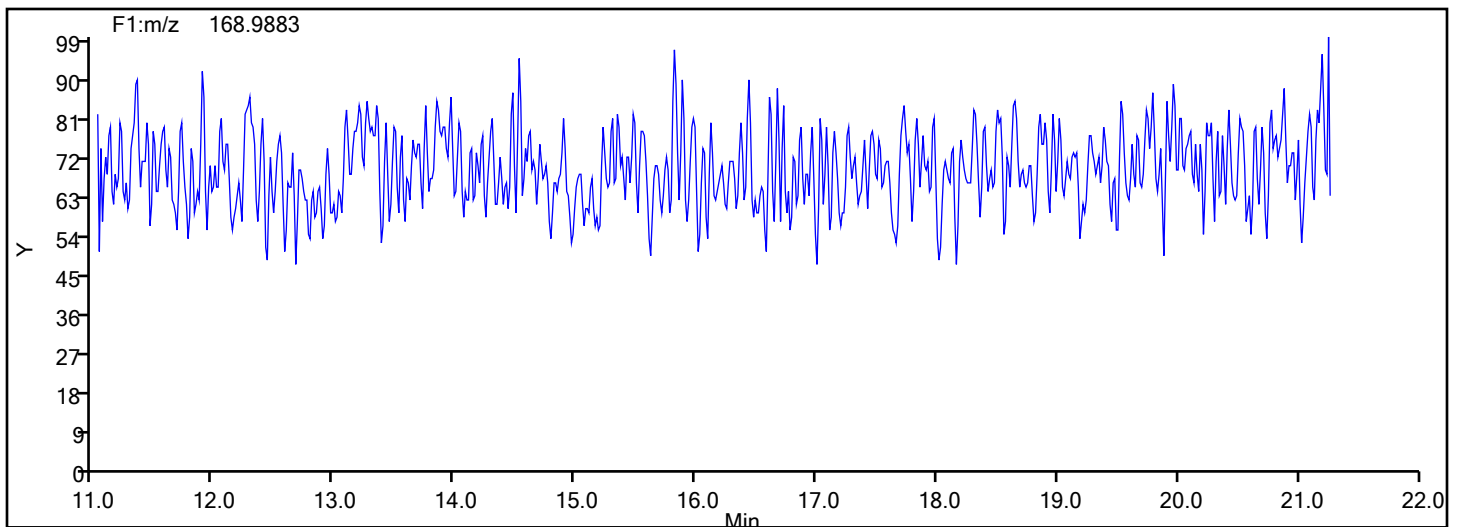
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

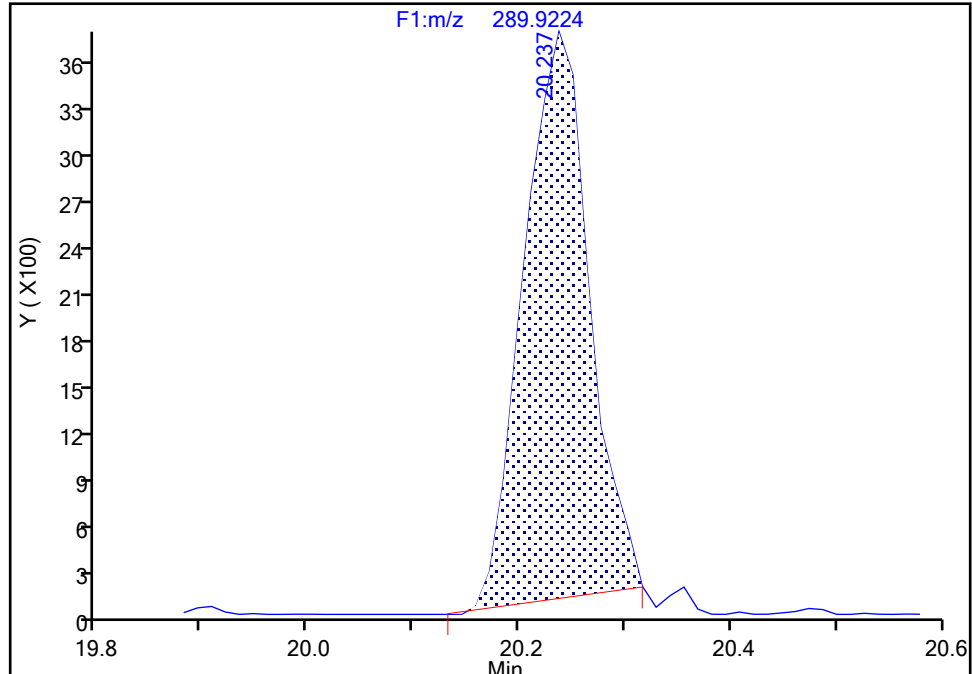
Detector F1(11.07 :21.70 )

PCB-54, CAS: 15968-05-5

Signal: 1

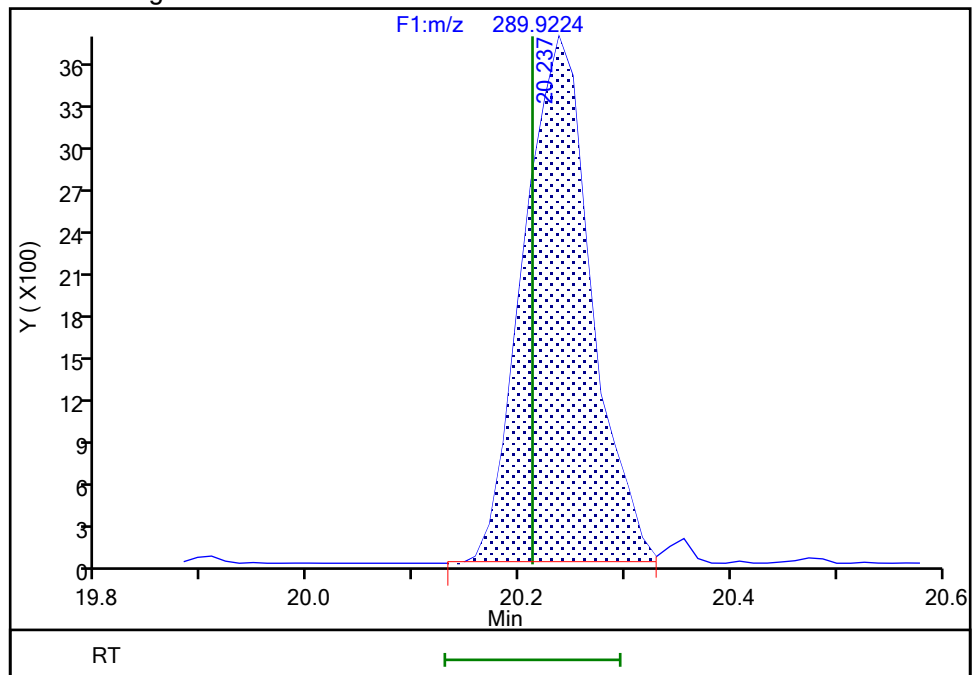
RT: 20.24  
Area: 15732  
Amount: 1.081870  
Amount Units: pg/ul

## Processing Integration Results



RT: 20.24  
Area: 16803  
Amount: 1.040564  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:57:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

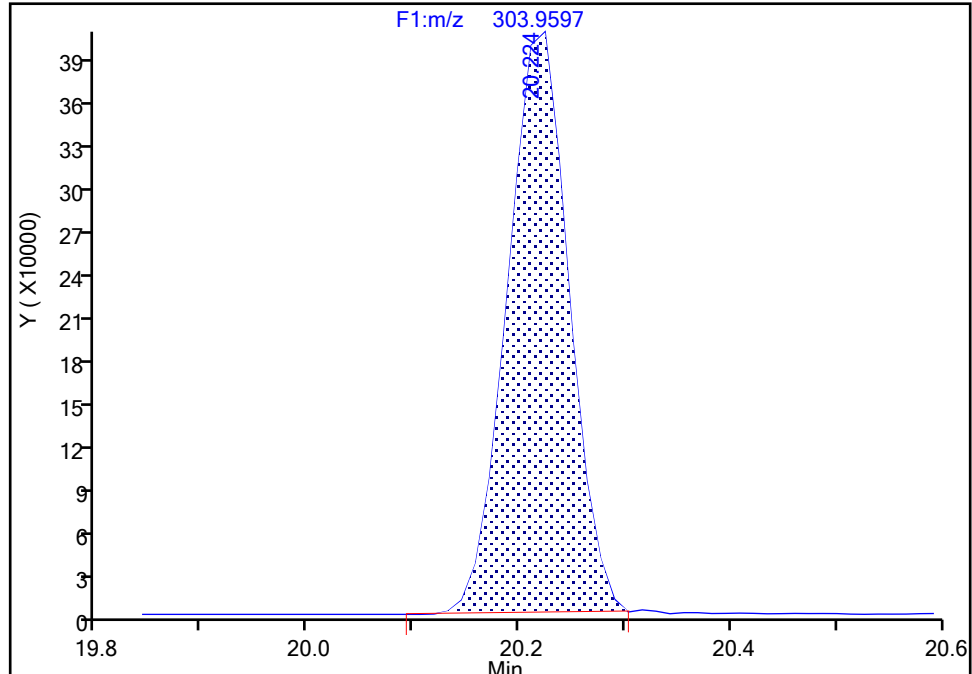
Detector F1(11.07 :21.70 )

**PCB-54L, CAS: 234432-88-3**

Signal: 2

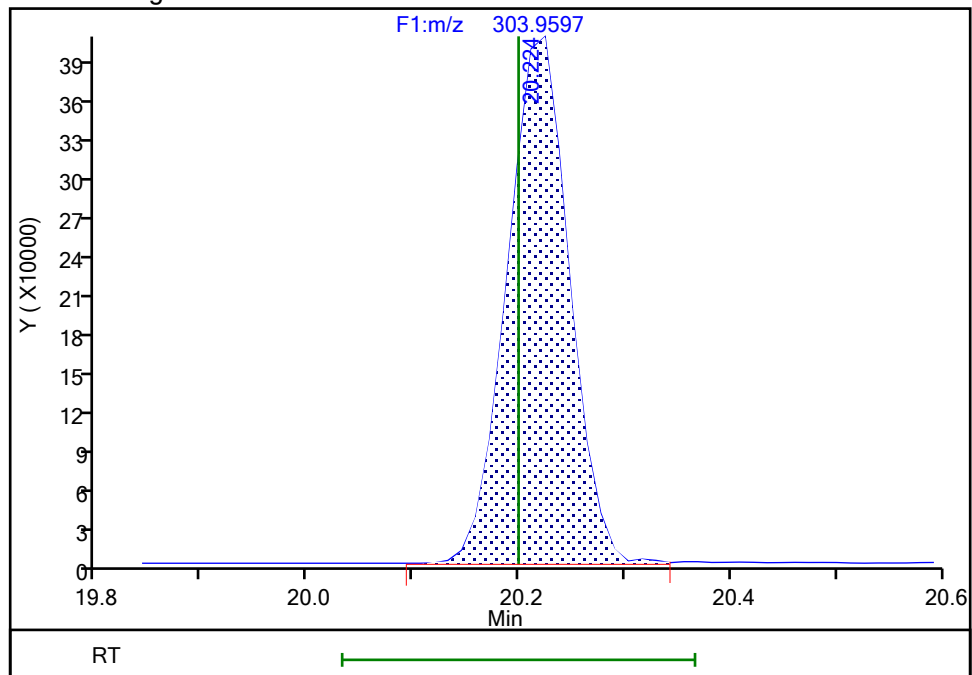
RT: 20.22  
Area: 1651536  
Amount: 94.488267  
Amount Units: pg/ul

## Processing Integration Results



RT: 20.22  
Area: 1667087  
Amount: 102.2191  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:35:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Chrom Revision: 2.3 20-May-2024 22:00:34

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur\_System

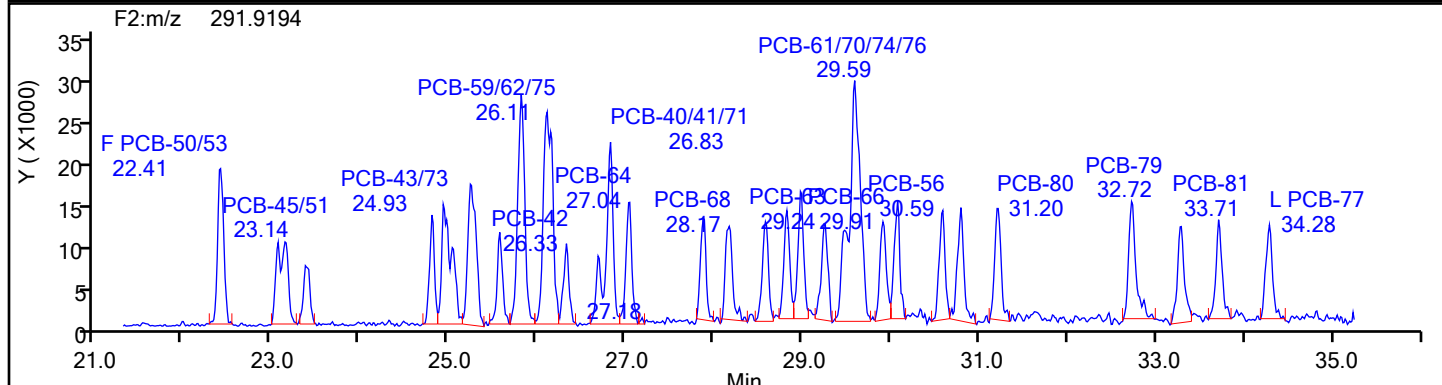
Limit Group: HR - EPA\_23 PCB ICAL

Sample Line#: 2

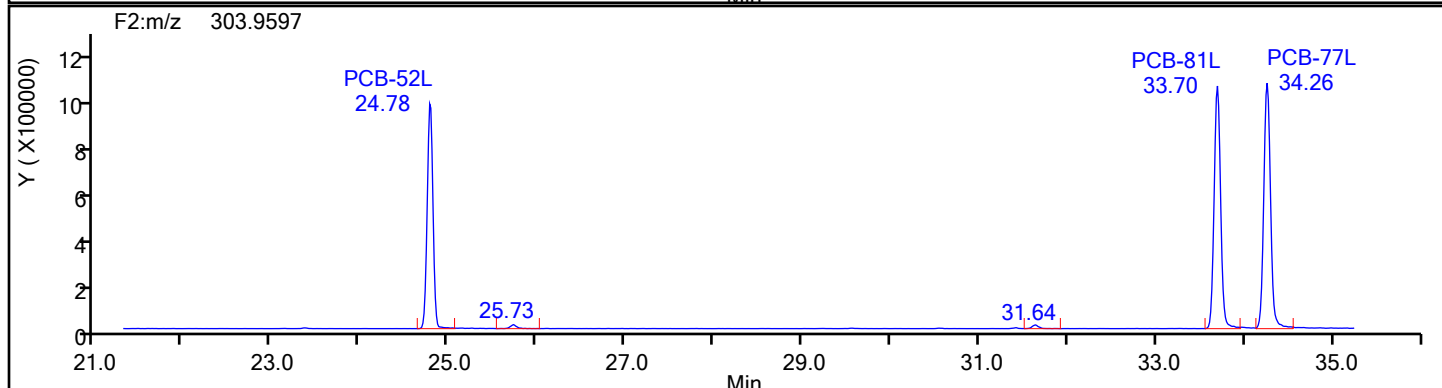
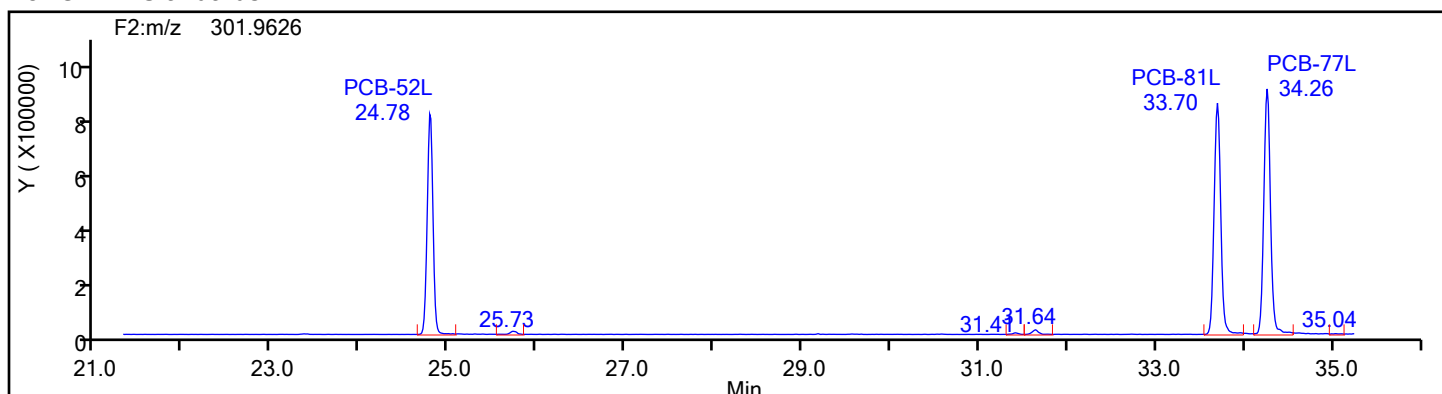
Sample Line#: 2

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

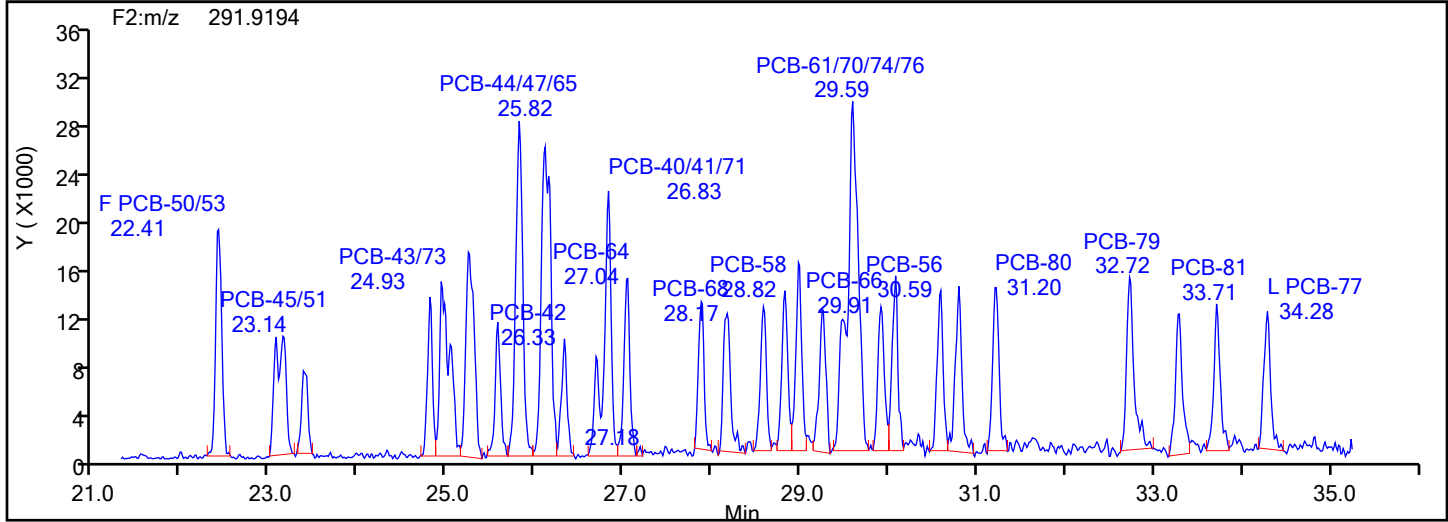
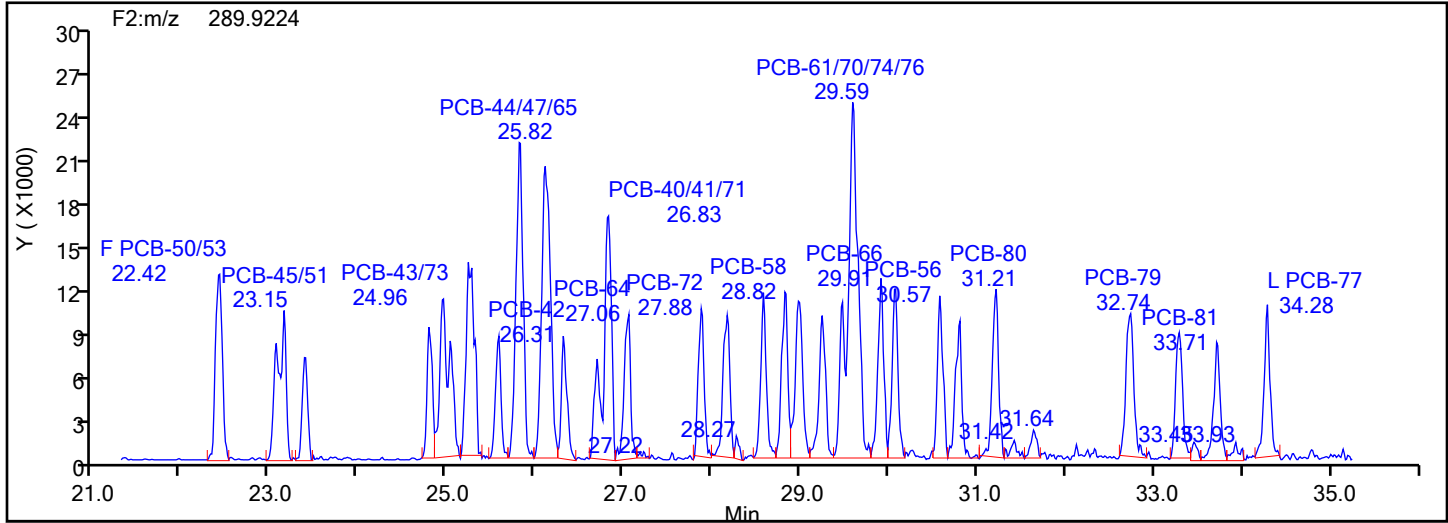
Worklist#: 87130

Sample Line#: 2

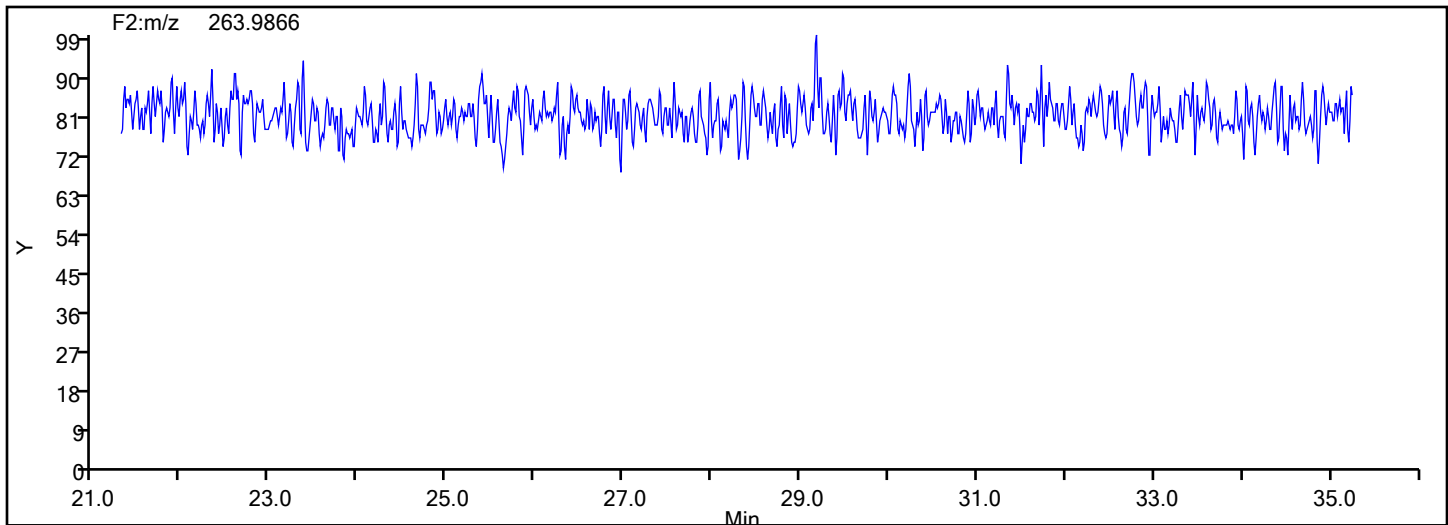
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

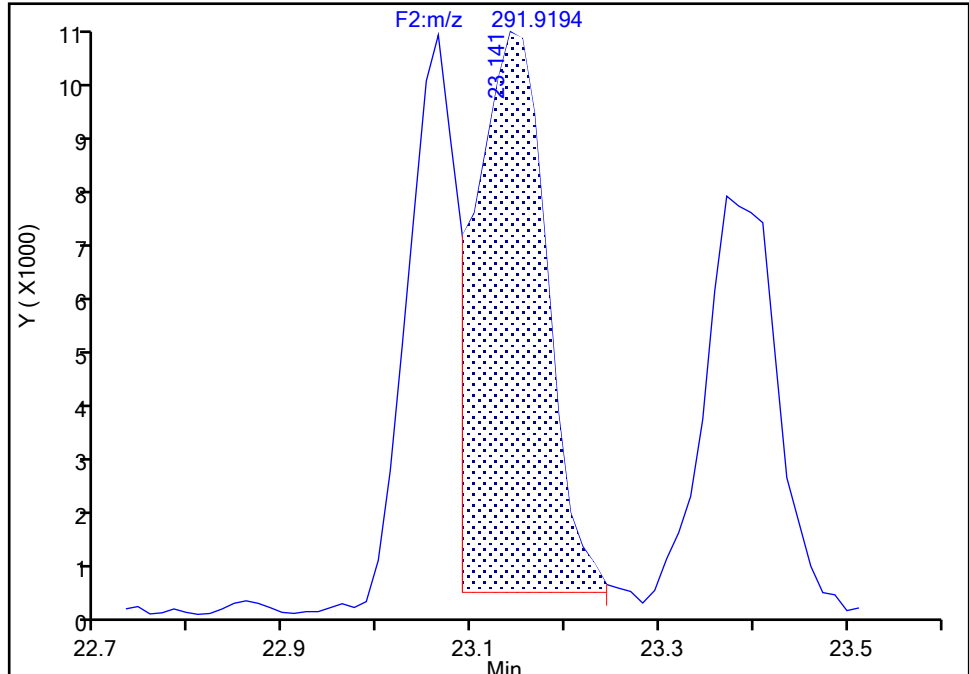
Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 2

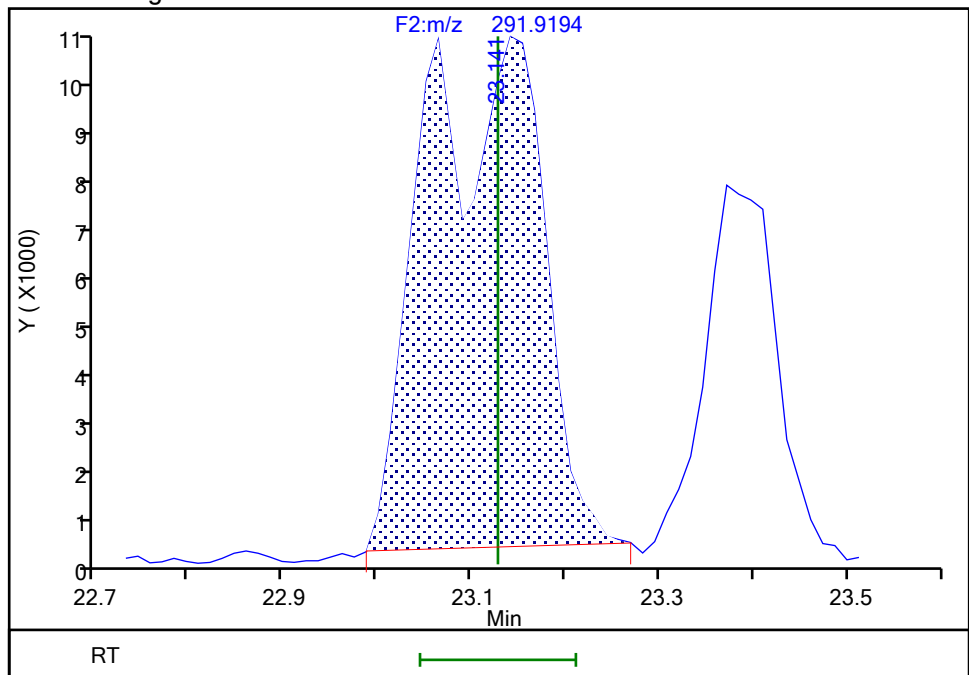
RT: 23.14  
Area: 50830  
Amount: 1.771882  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.14  
Area: 85307  
Amount: 1.974472  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:02:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

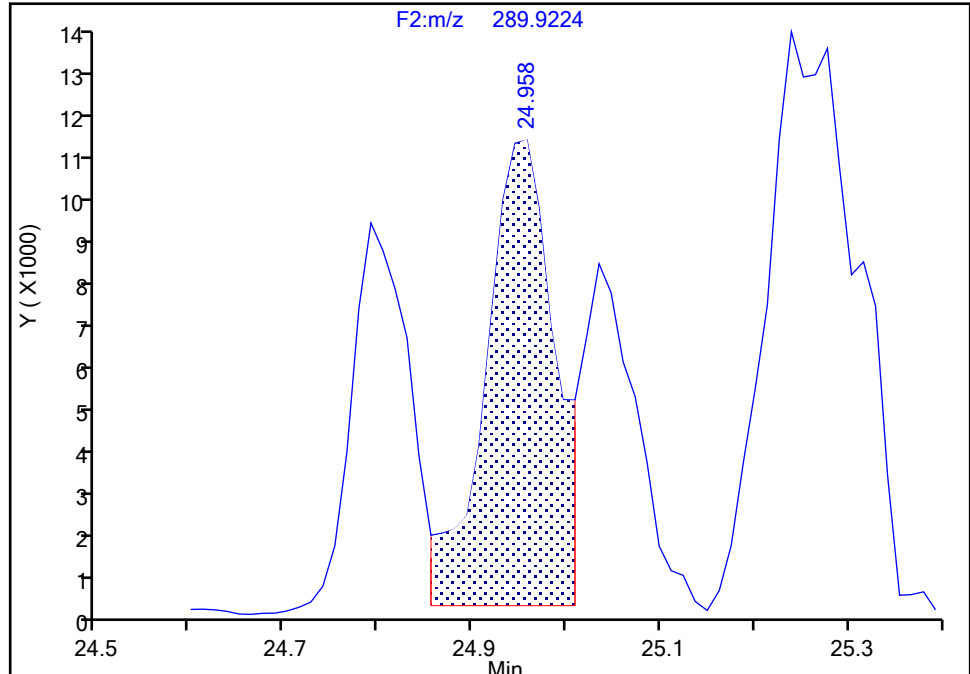
Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 1

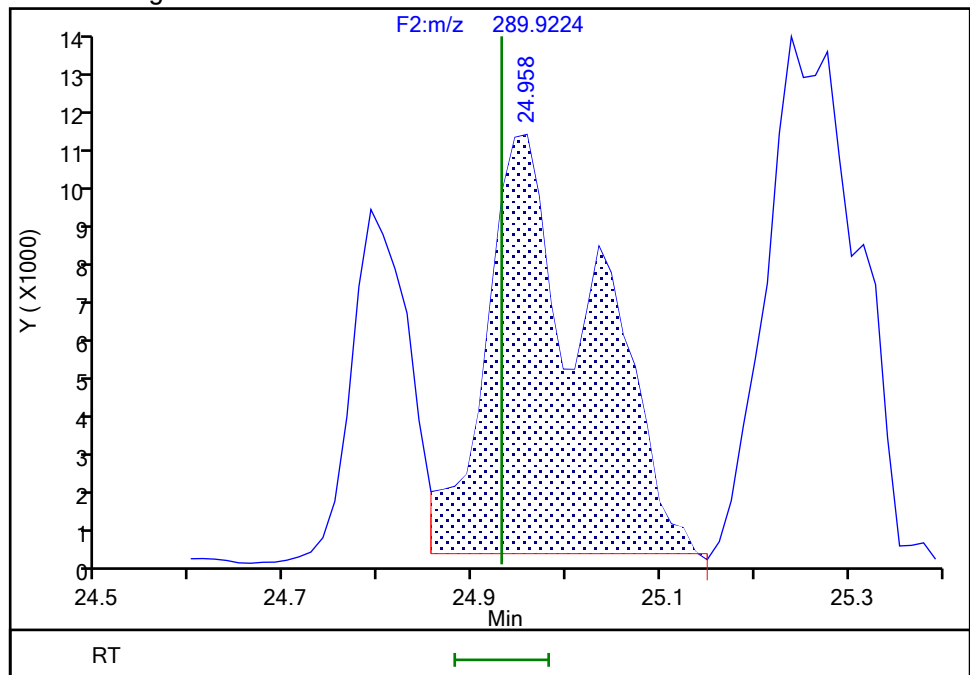
RT: 24.96  
Area: 54766  
Amount: 1.474080  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.96  
Area: 85780  
Amount: 2.004763  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

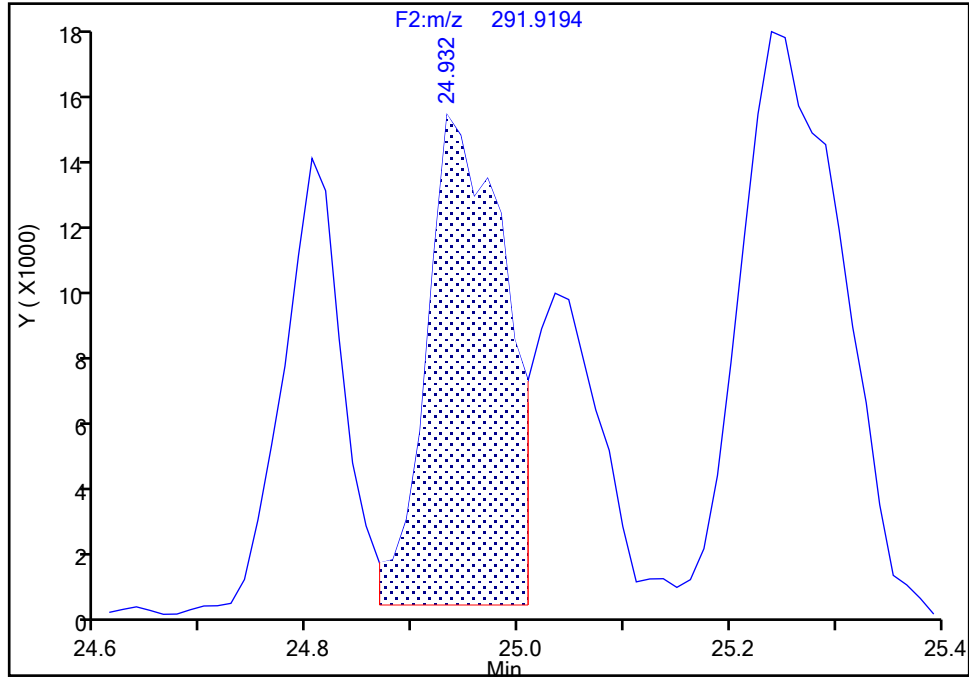
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

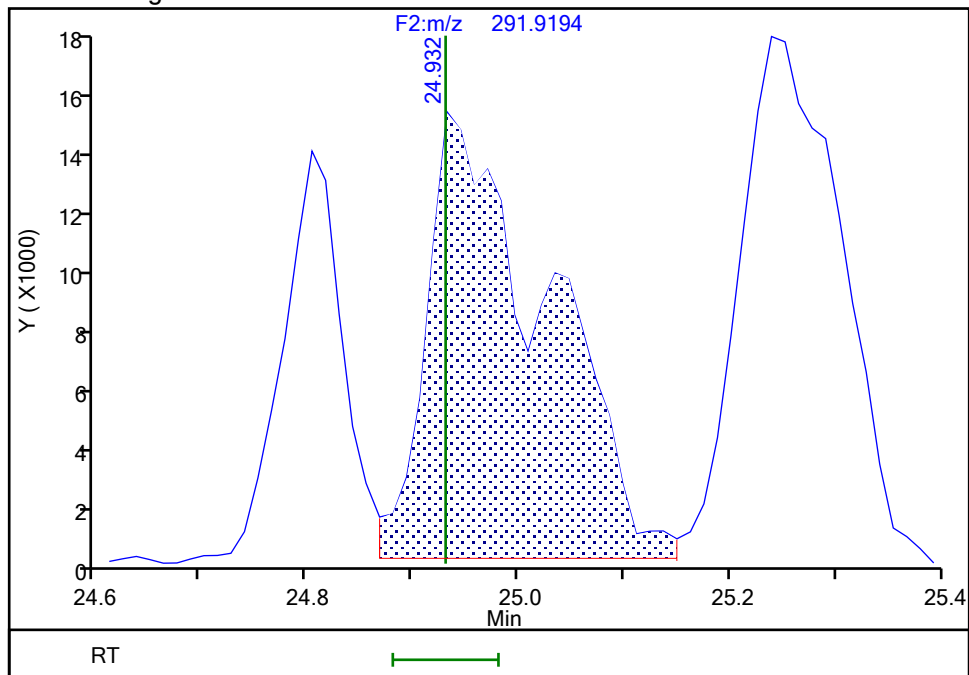
RT: 24.93  
Area: 73369  
Amount: 1.474080  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 114448  
Amount: 2.004763  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

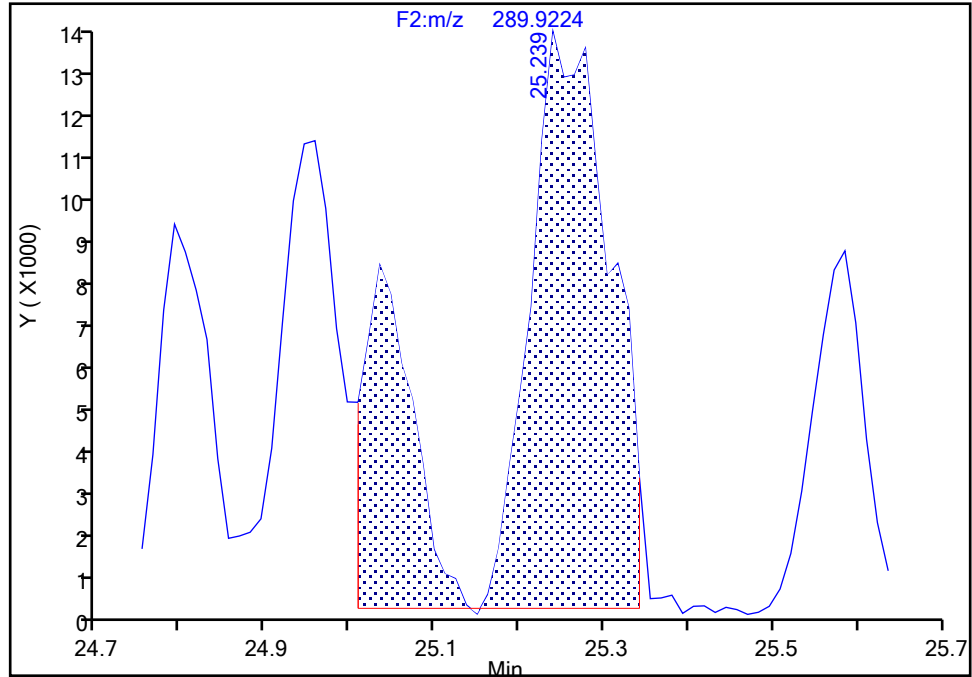
Detector F2(21.81 :35.54 )

**PCB-49/69, CAS: STL01805**

Signal: 1

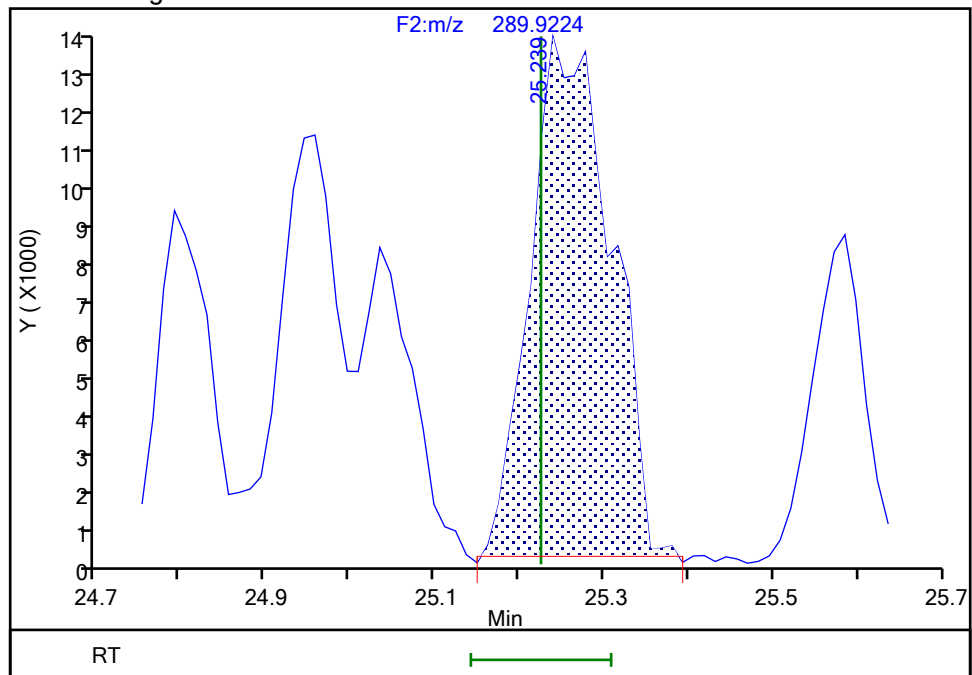
RT: 25.24  
Area: 119546  
Amount: 2.414363  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.24  
Area: 88756  
Amount: 1.954885  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

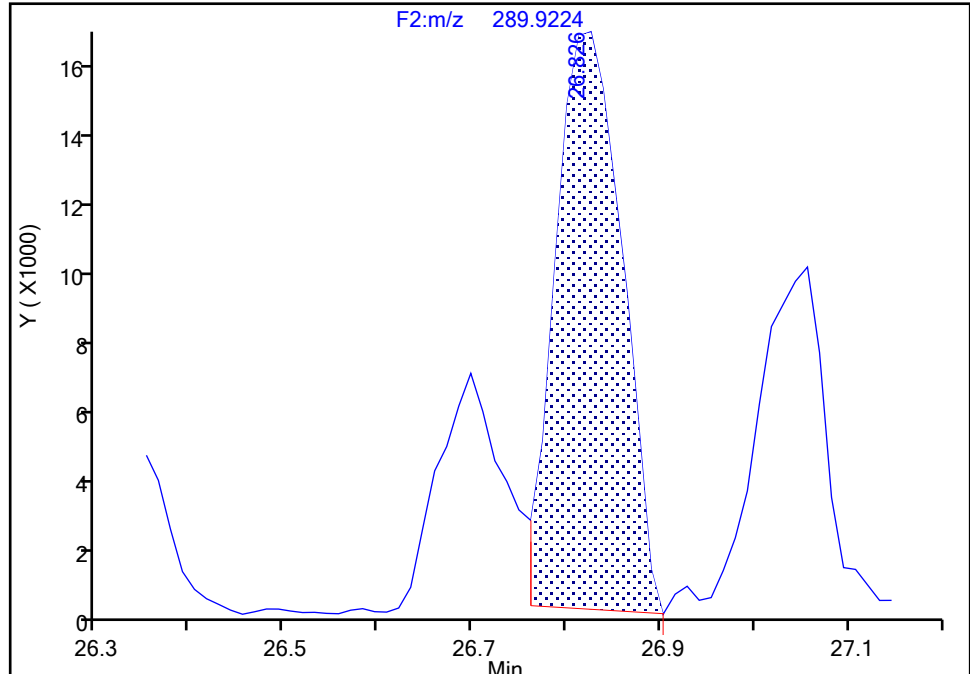
Detector F2(21.81 :35.54 )

PCB-40/41/71, CAS: STL02292

Signal: 1

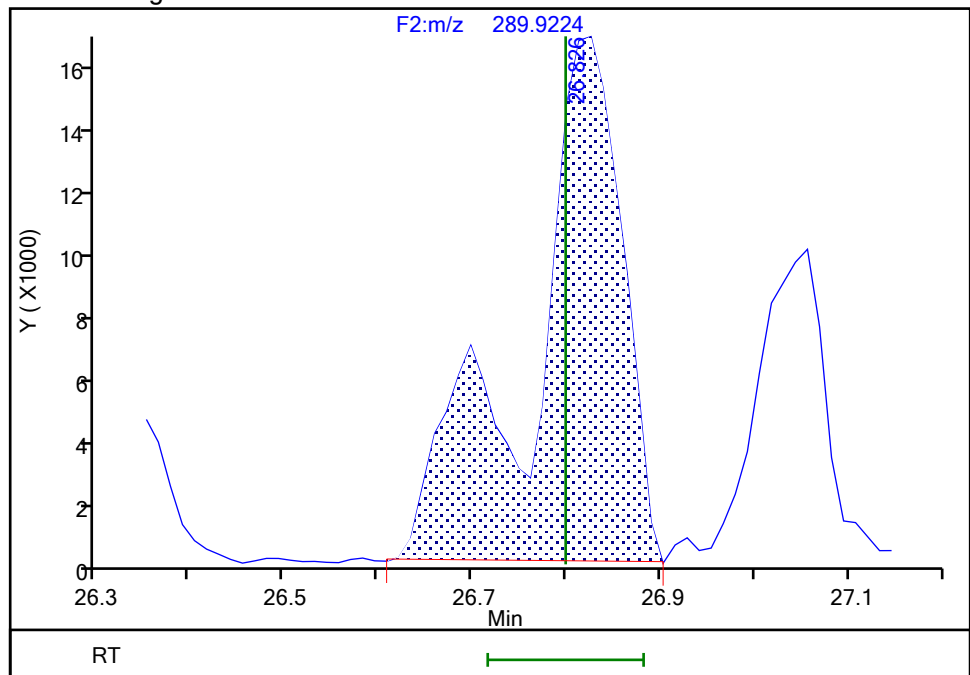
RT: 26.83  
Area: 82680  
Amount: 2.861341  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.83  
Area: 116094  
Amount: 2.948431  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 18:03:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

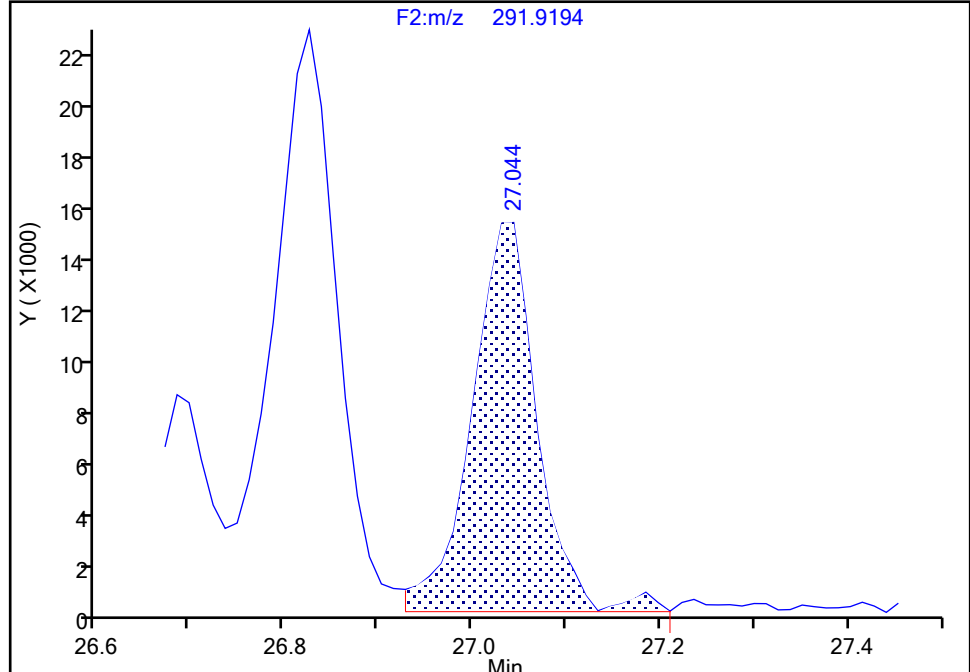
Detector F2(21.81 :35.54 )

PCB-64, CAS: 52663-58-8

Signal: 2

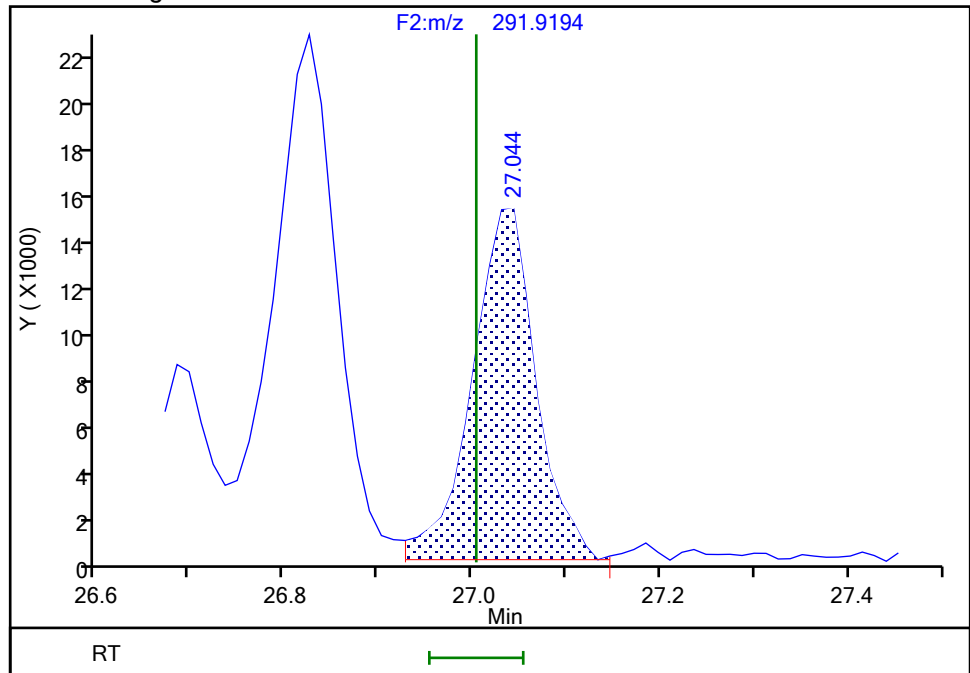
RT: 27.04  
Area: 71055  
Amount: 1.108123  
Amount Units: pg/ul

## Processing Integration Results



RT: 27.04  
Area: 69628  
Amount: 1.065987  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:35:38 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

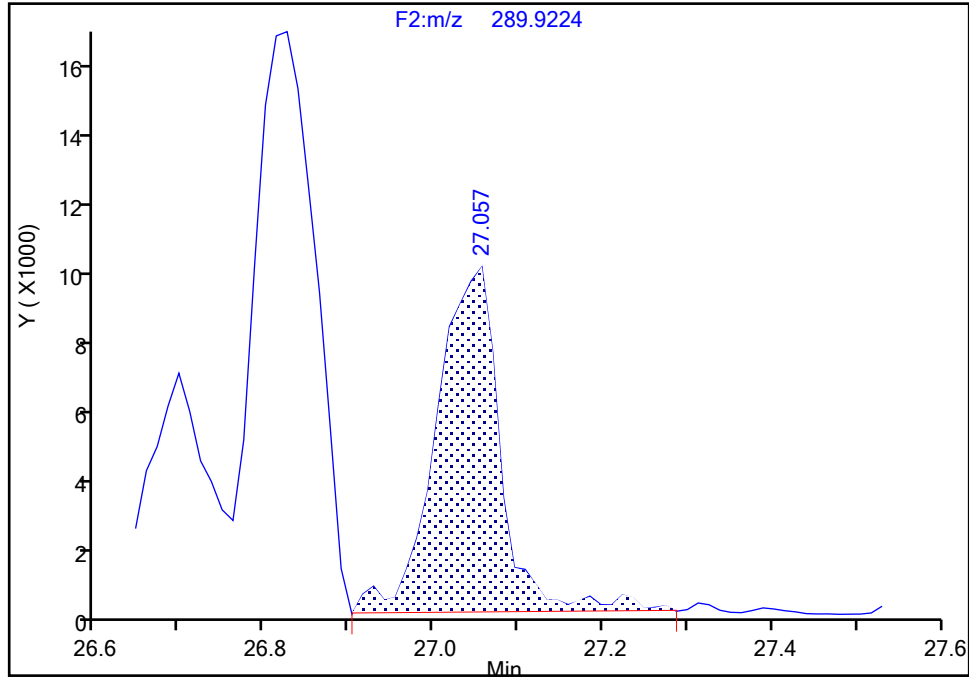
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-64, CAS: 52663-58-8

Signal: 1

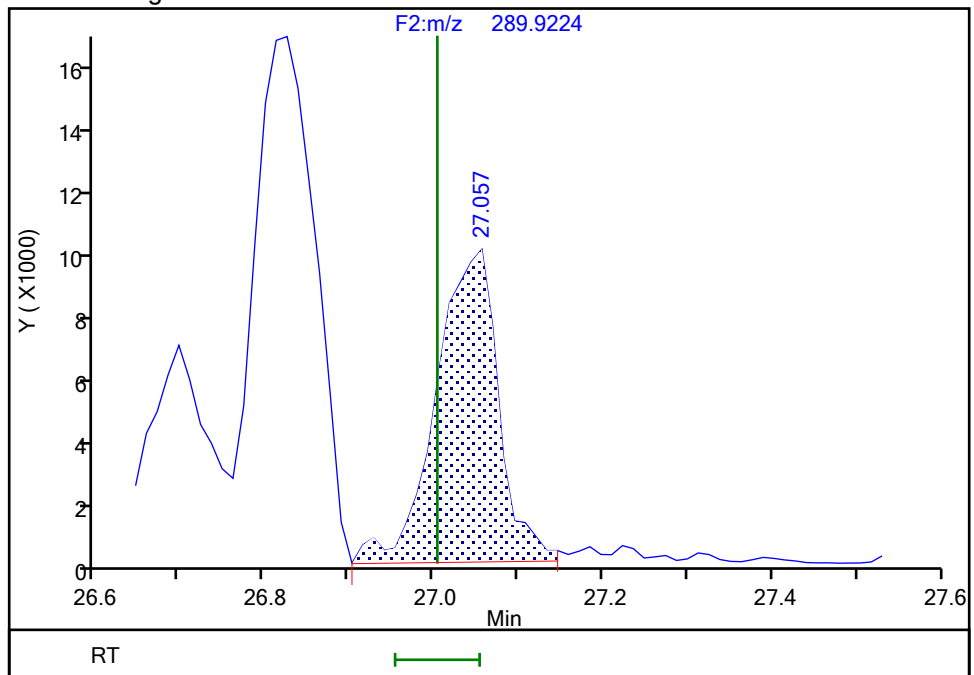
RT: 27.06  
Area: 53878  
Amount: 1.108123  
Amount Units: pg/ul

## Processing Integration Results



RT: 27.06  
Area: 51698  
Amount: 1.065987  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:35:41 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

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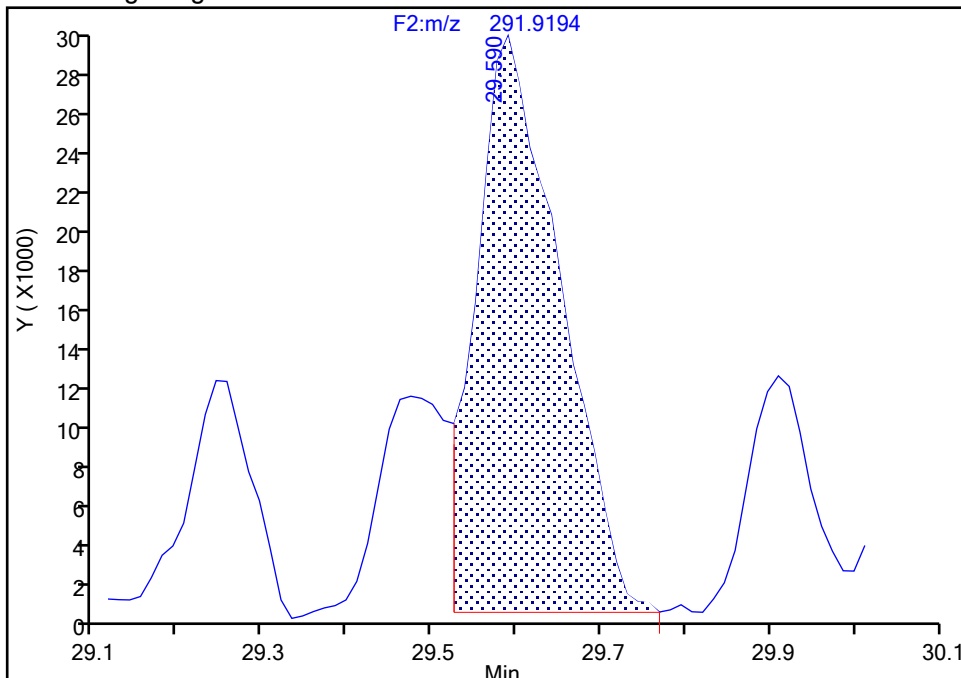
BASFHWC-F-2024-082  
9/6/2024  
3:53:39 PM

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d		
Injection Date:	31-May-2024 16:53:00	Instrument ID:	D2D
Lims ID:	IC L2		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F2(21.81 :35.54

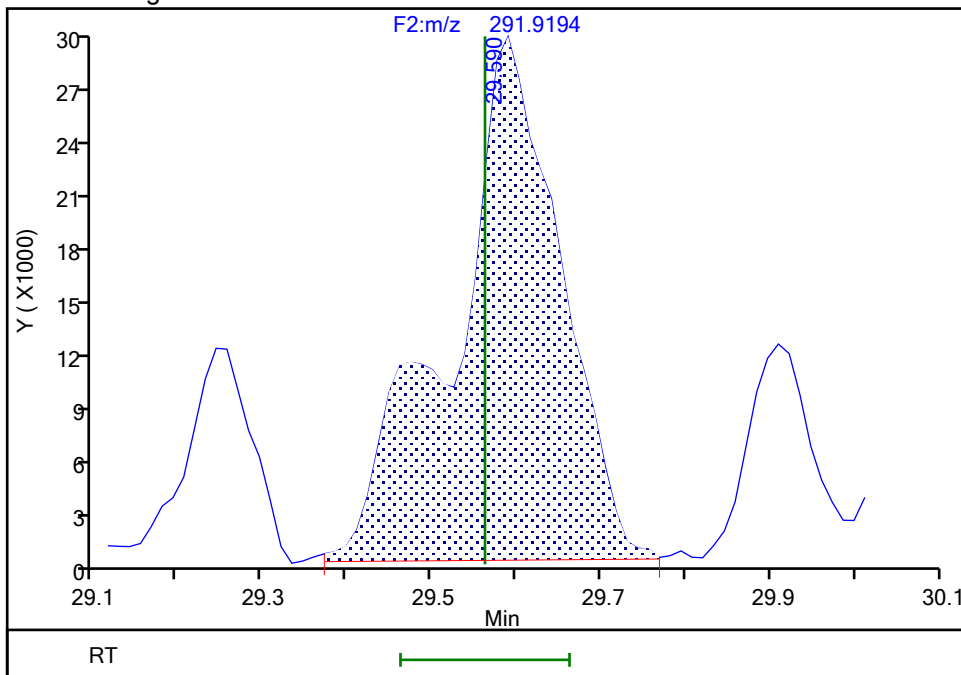
```
ALS Bottle#:      0          Worklist Smp#:      2
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F2(21.81 :35.54 )
```

Signal: 2

RT: 29.59  
Area: 198737  
Amount: 3.693416  
Amount Units: pg/ul



RT: 29.59  
Area: 261662  
Amount: 3.875831  
Amount Units: pg/ul



### Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

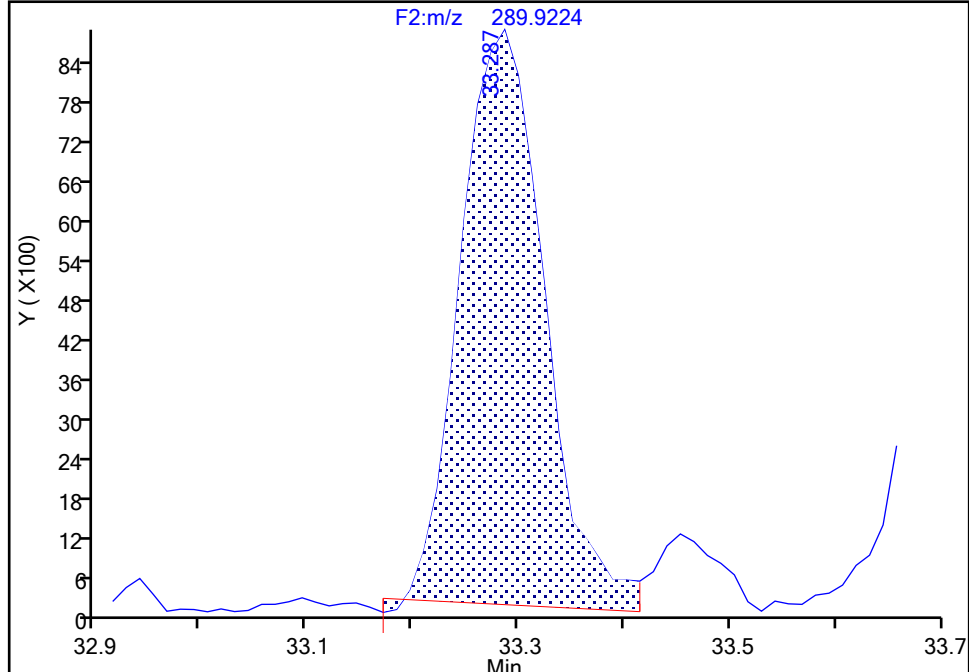
Detector F2(21.81 :35.54 )

**PCB-78, CAS: 70362-49-1**

Signal: 1

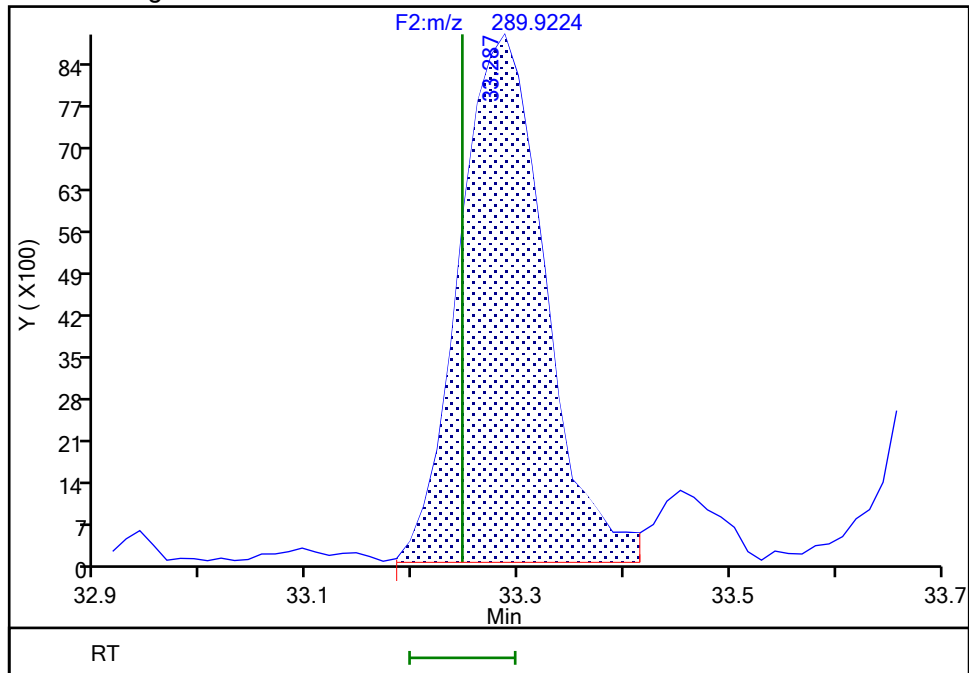
RT: 33.29  
Area: 47957  
Amount: 0.938957  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.29  
Area: 49349  
Amount: 1.029788  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:36:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

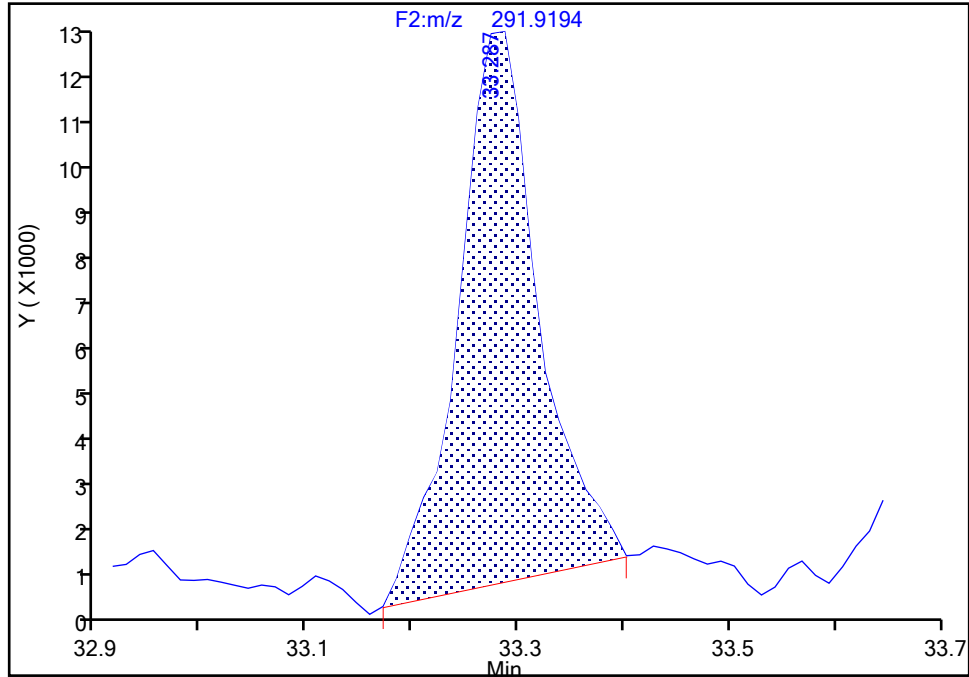
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-78, CAS: 70362-49-1

Signal: 2

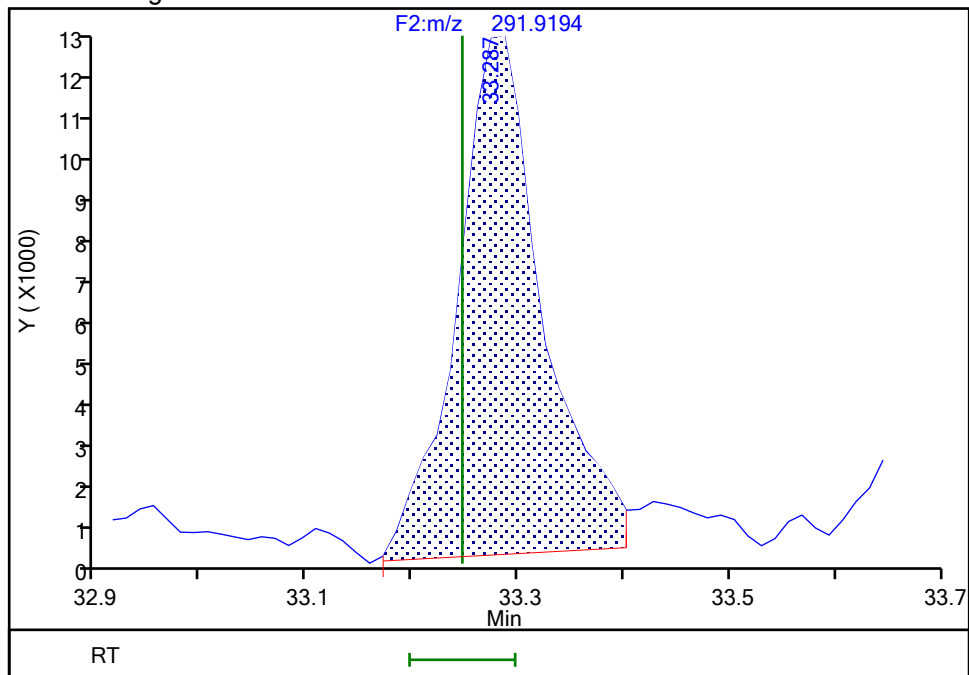
RT: 33.29  
Area: 59884  
Amount: 0.938957  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.29  
Area: 66291  
Amount: 1.029788  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:36:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024085  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

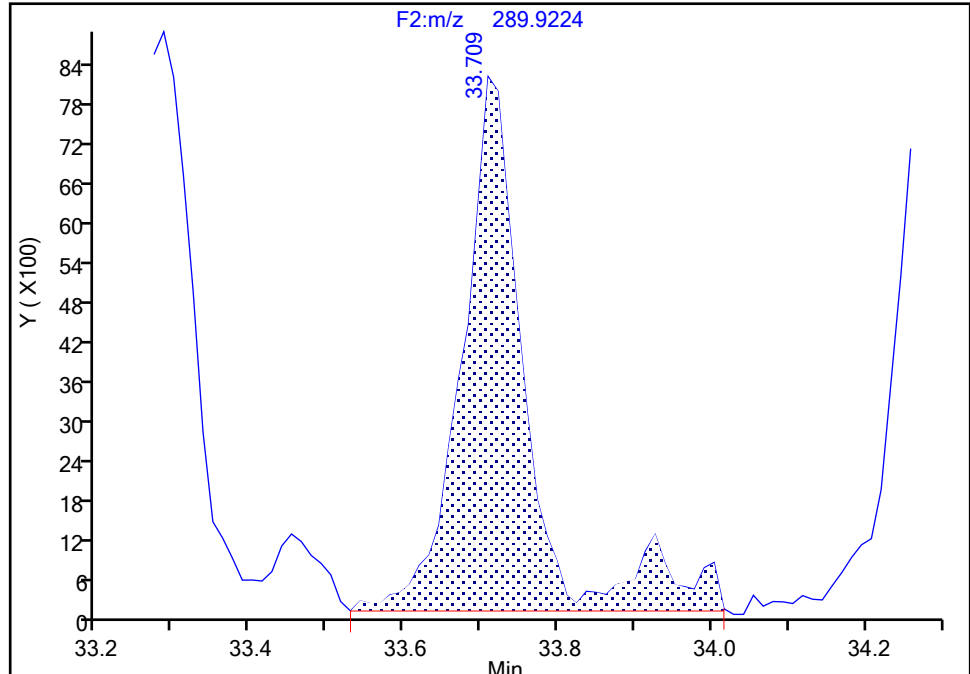
Detector F2(21.81 :35.54 )

**PCB-81, CAS: 70362-50-4**

Signal: 1

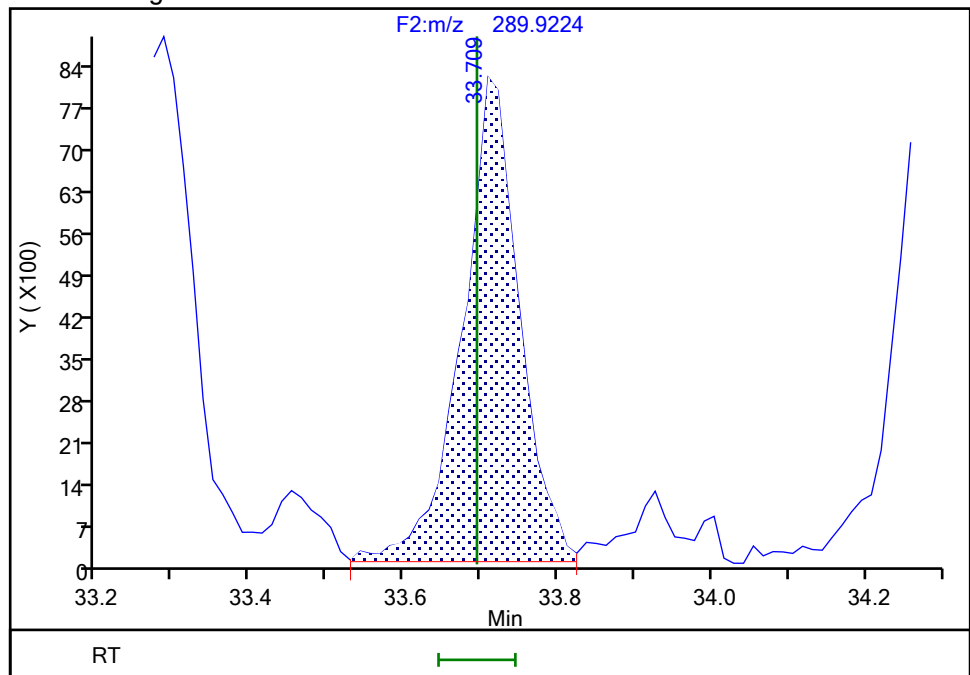
RT: 33.71  
Area: 47878  
Amount: 1.089091  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.71  
Area: 41953  
Amount: 1.014645  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:35:15 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

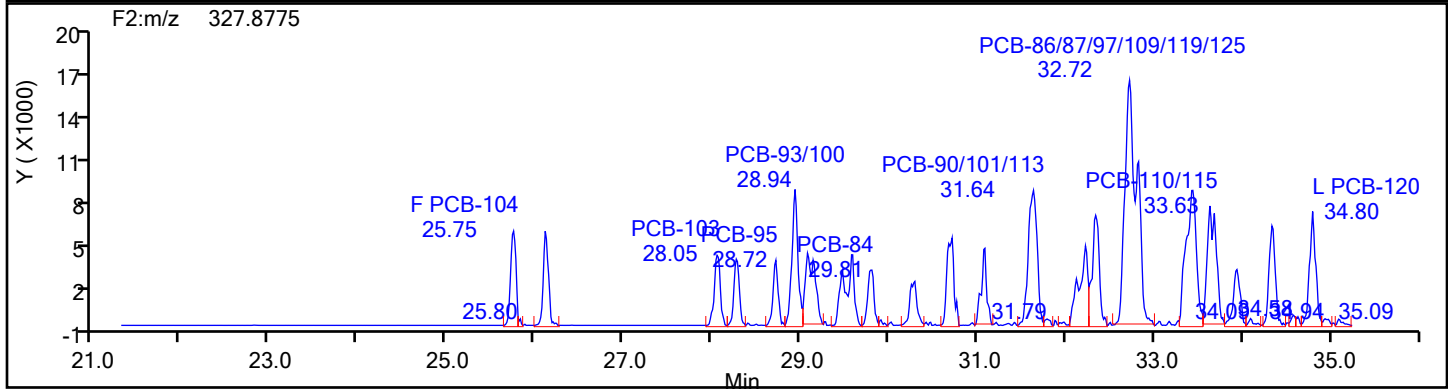
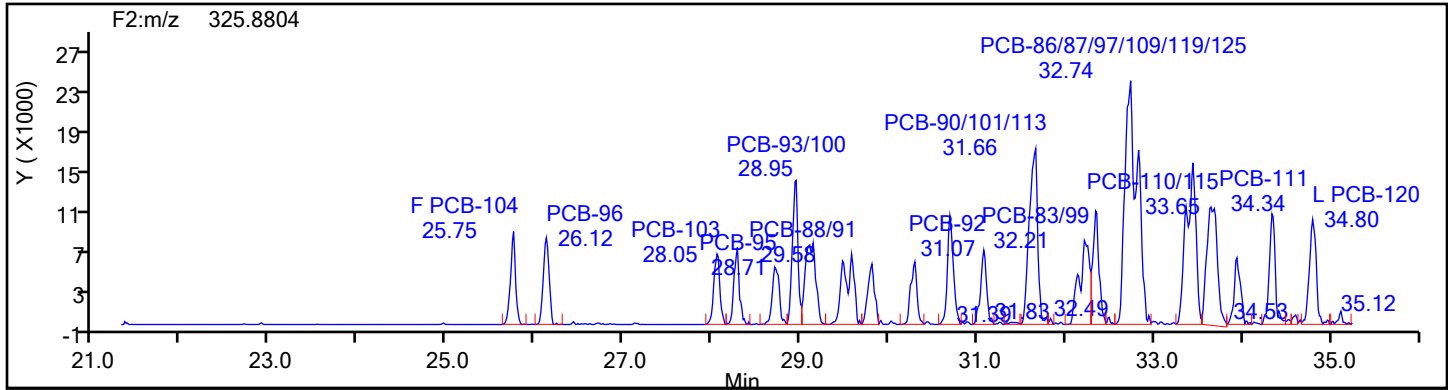
Worklist#: 87130

Sample Line#: 2

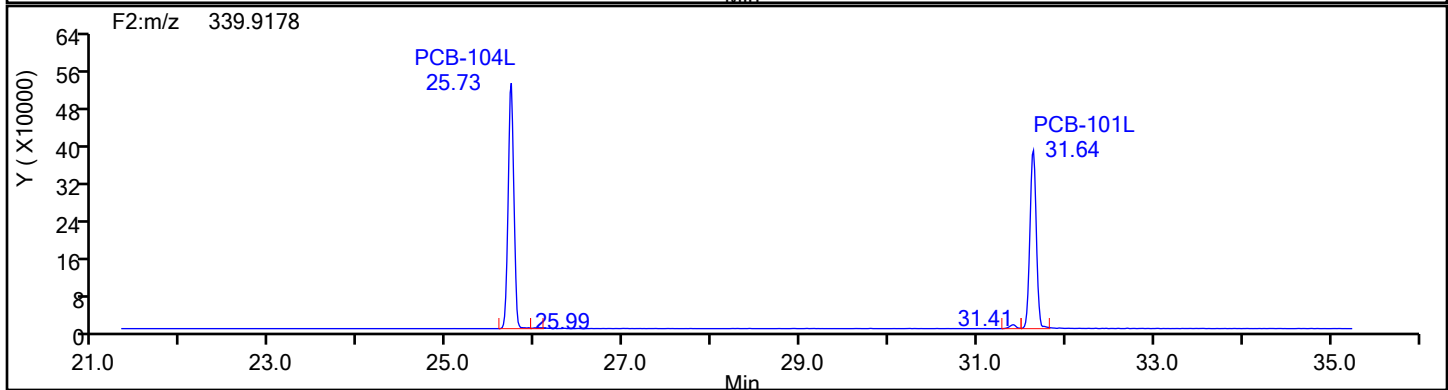
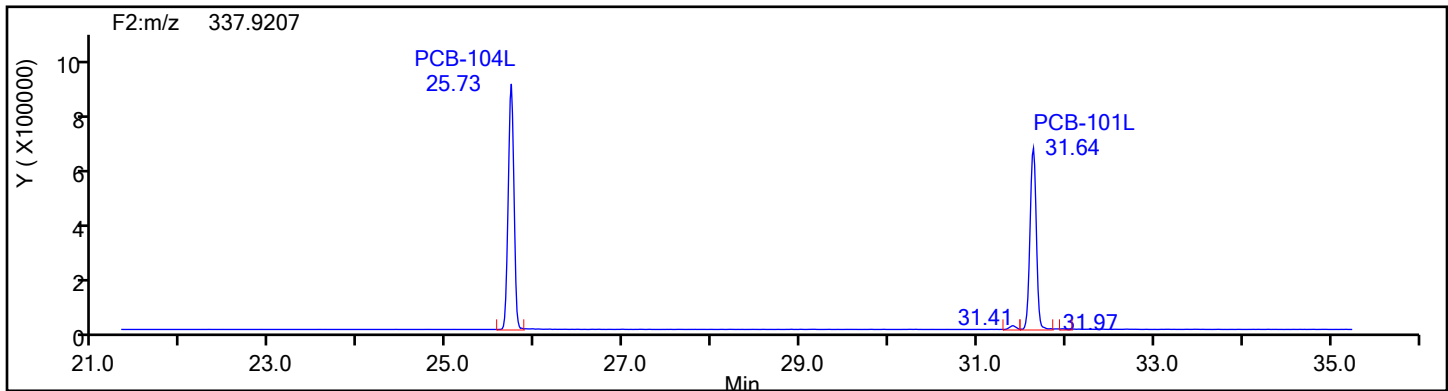
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

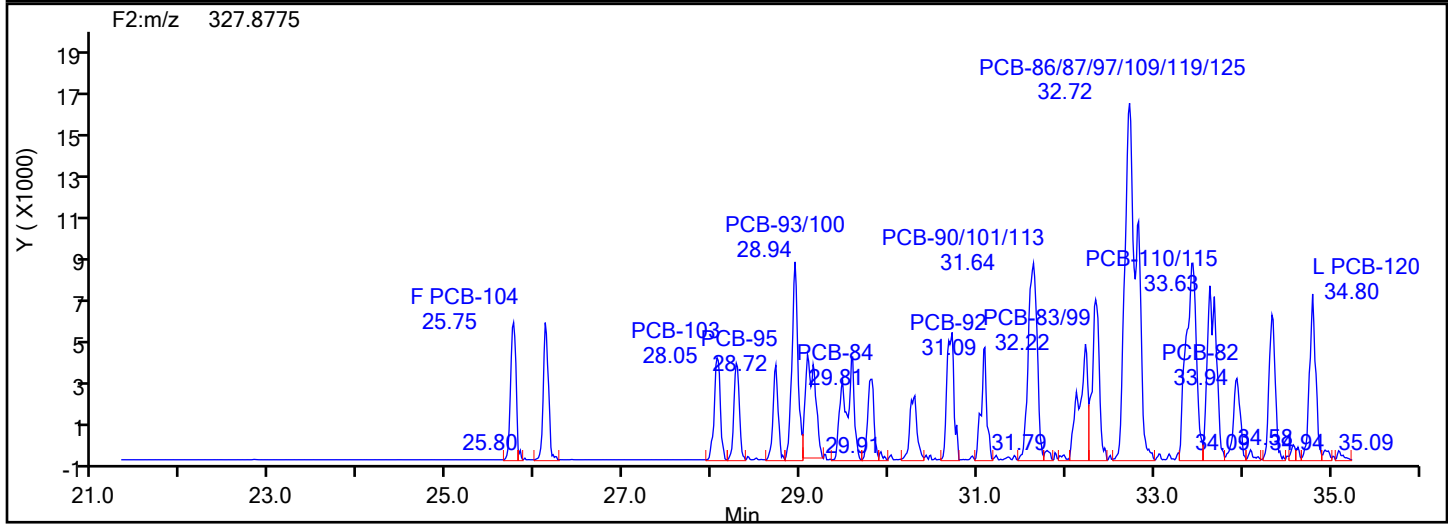
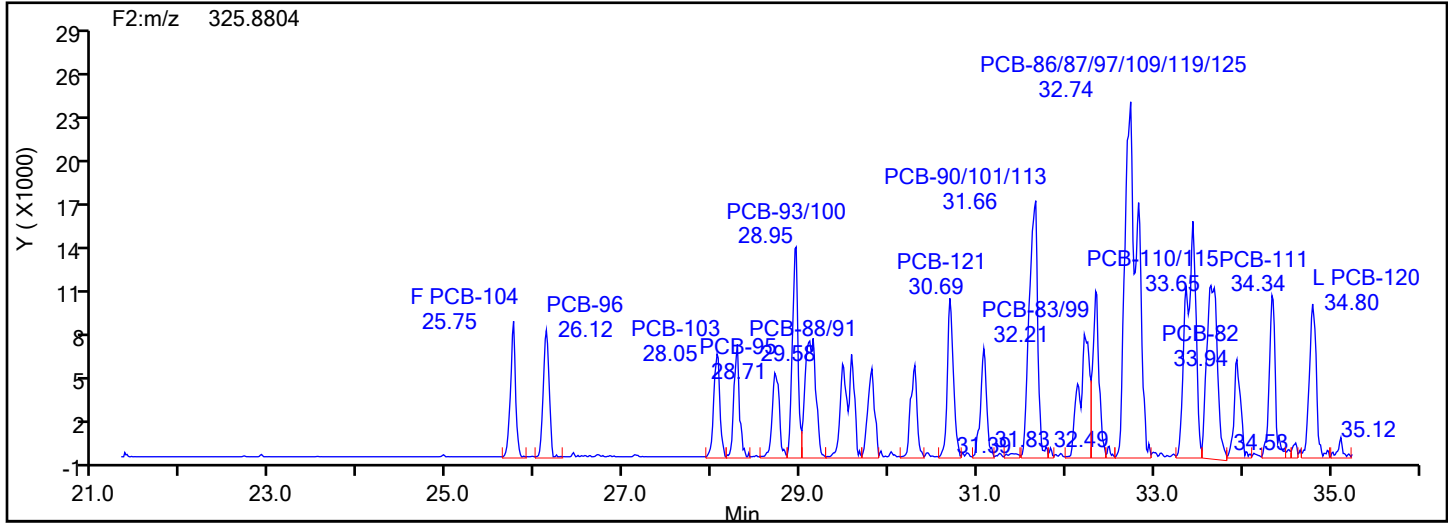
Worklist#: 87130

Sample Line#: 2

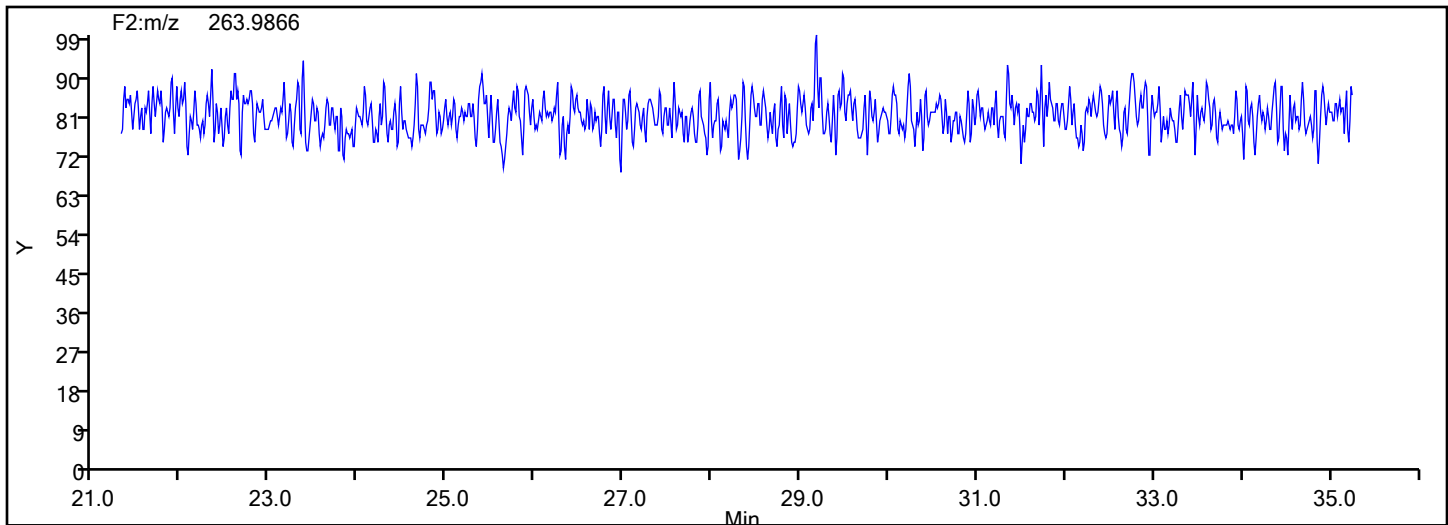
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

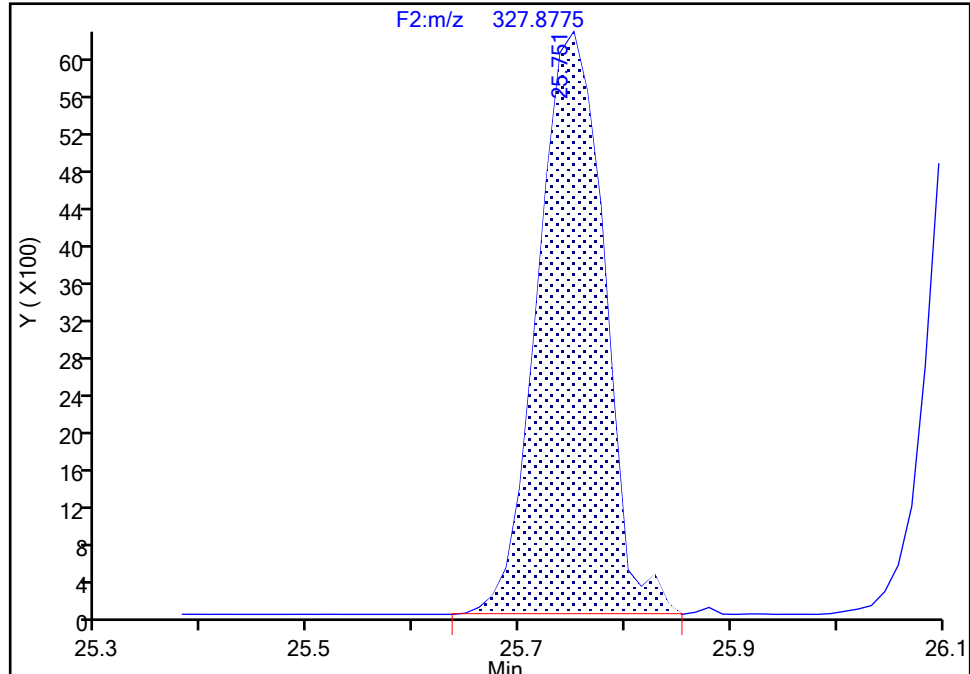
Detector F2(21.81 :35.54 )

**PCB-104, CAS: 56558-16-8**

Signal: 2

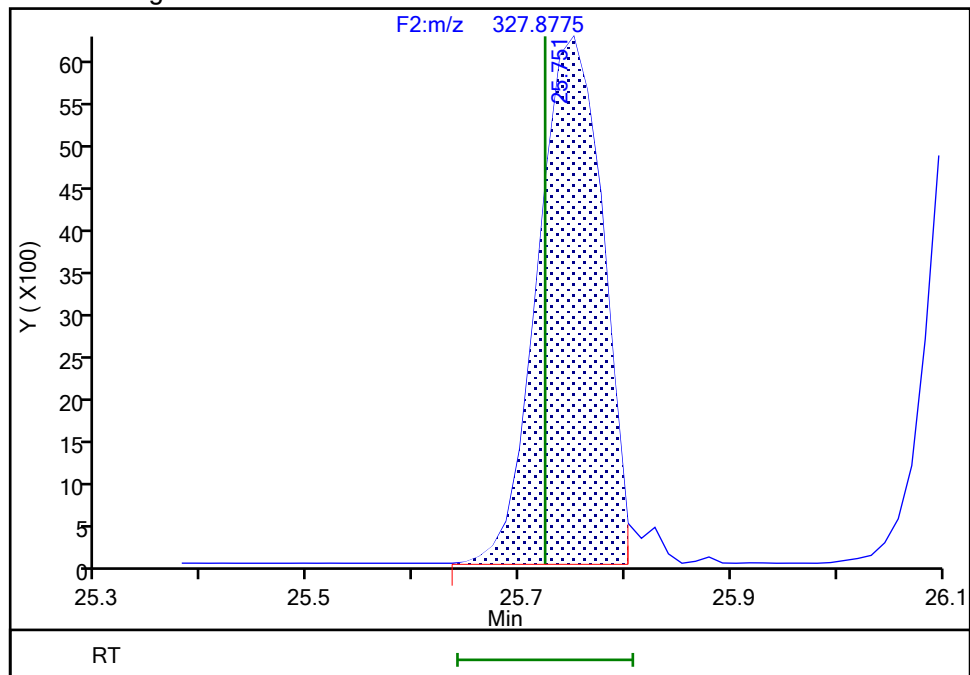
RT: 25.75  
Area: 27177  
Amount: 0.988513  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.75  
Area: 26359  
Amount: 0.977407  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:55:24 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

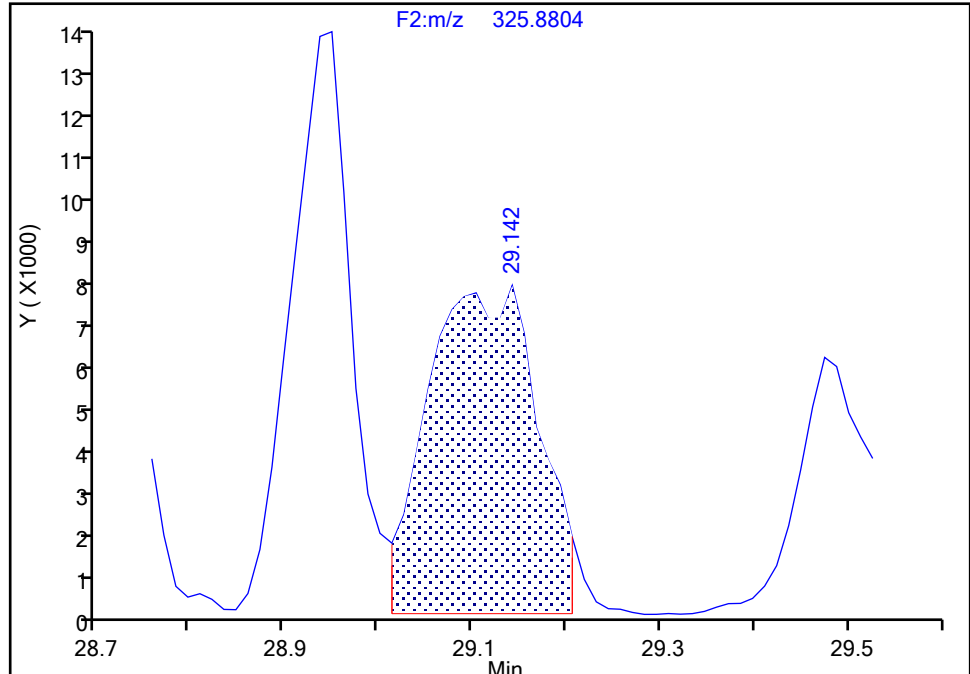
Detector F2(21.81 :35.54 )

**PCB-98/102, CAS: STL01843**

Signal: 1

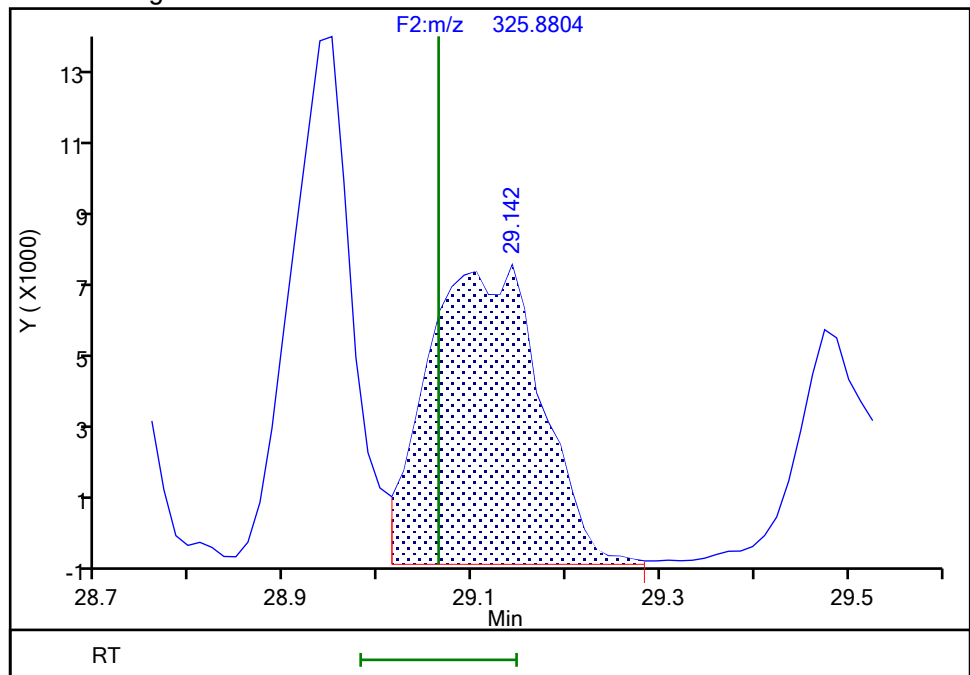
RT: 29.14  
Area: 63005  
Amount: 1.537926  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.14  
Area: 65793  
Amount: 1.974400  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:35:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

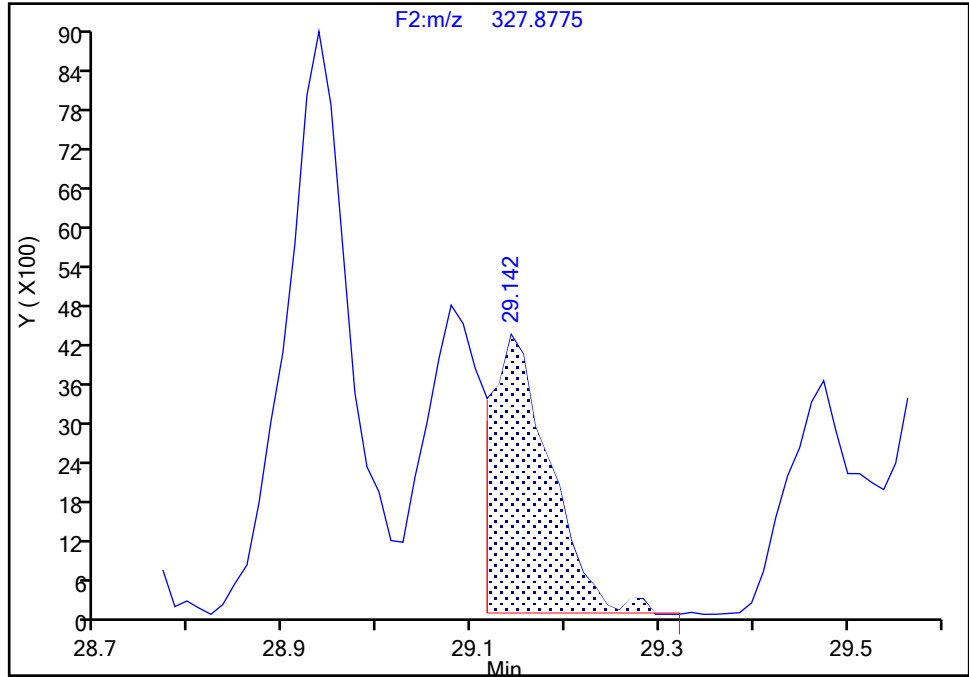
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-98/102, CAS: STL01843

Signal: 2

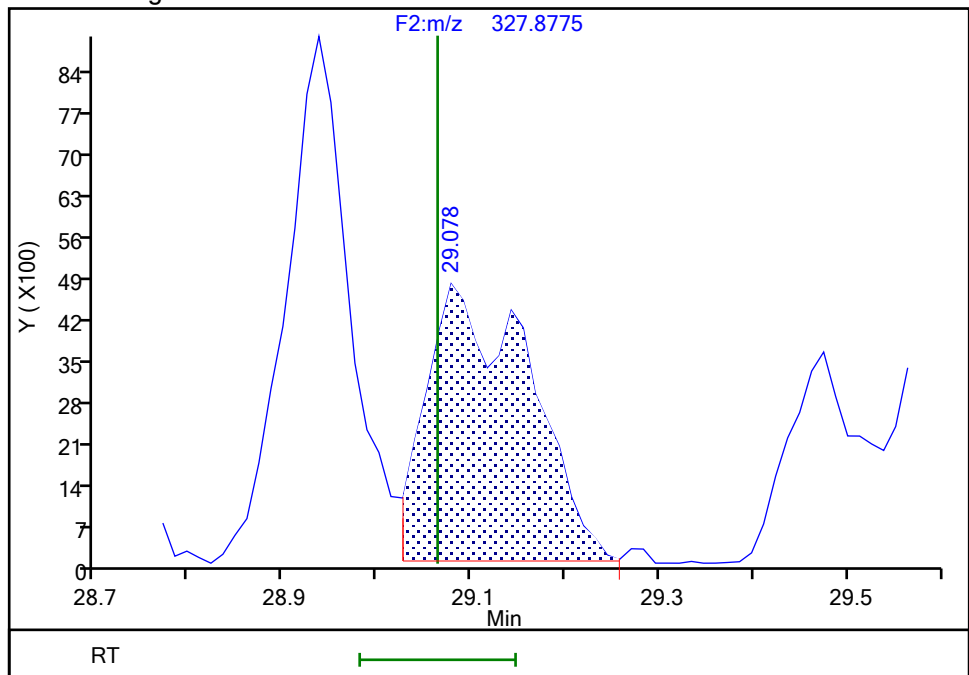
RT: 29.14  
Area: 18201  
Amount: 1.537926  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.08  
Area: 36004  
Amount: 1.974400  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:35:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-091  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

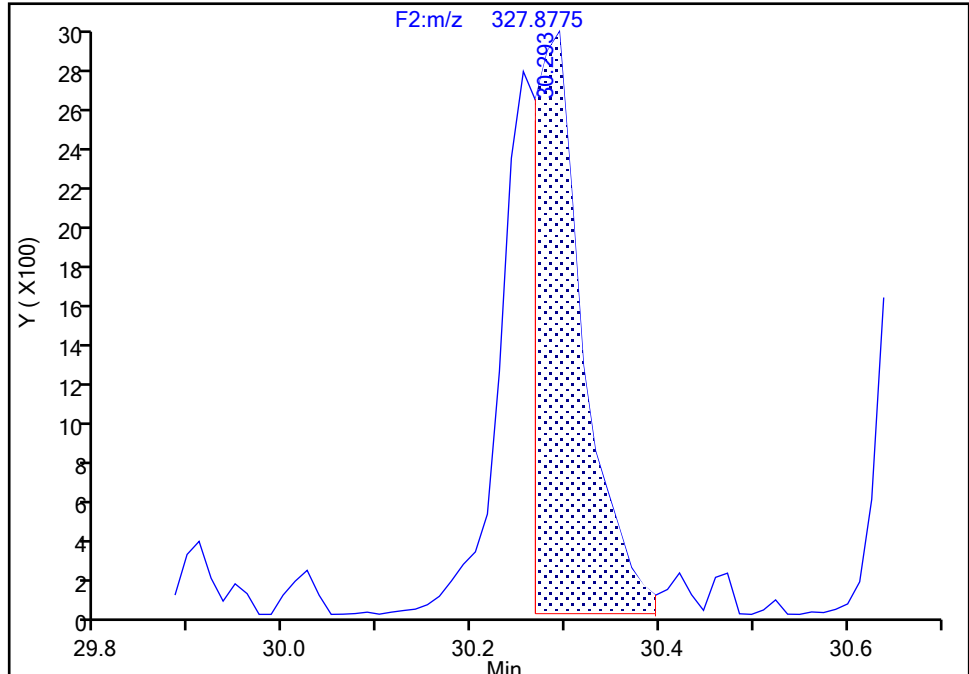
F2(21.81 :35.54 )

**PCB-89, CAS: 73575-57-2**

Signal: 2

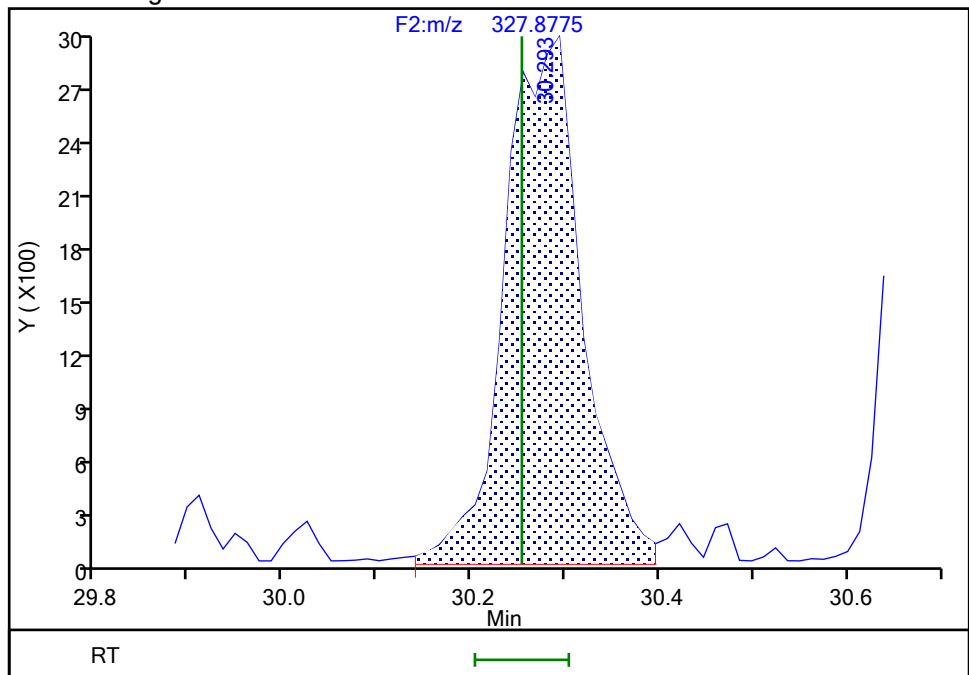
RT: 30.29  
Area: 9688  
Amount: 0.784234  
Amount Units: pg/ul

## Processing Integration Results



RT: 30.29  
Area: 16658  
Amount: 0.957137  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

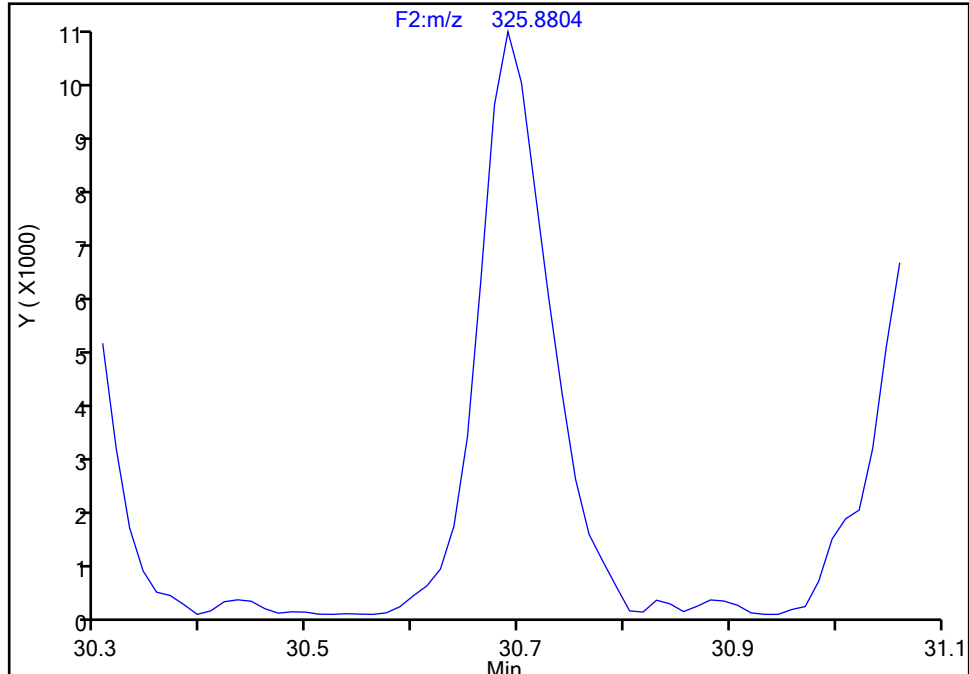
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-121, CAS: 56558-18-0**

Signal: 1

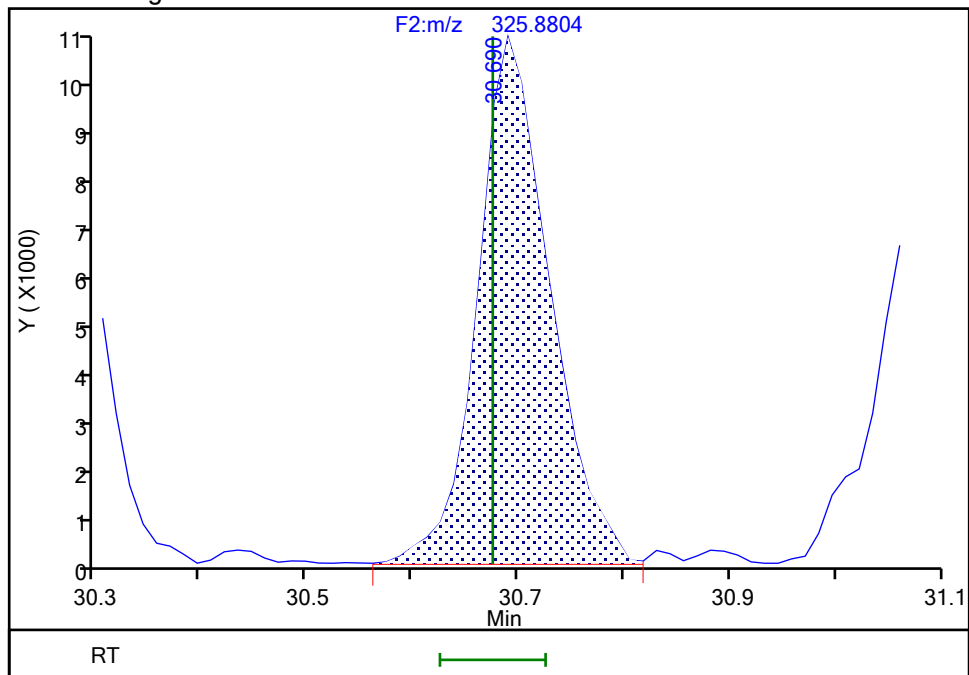
Not Detected  
Expected RT: 30.68

## Processing Integration Results



RT: 30.69  
Area: 49412  
Amount: 1.016498  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:13 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Baseline

## Eurofins Knoxville

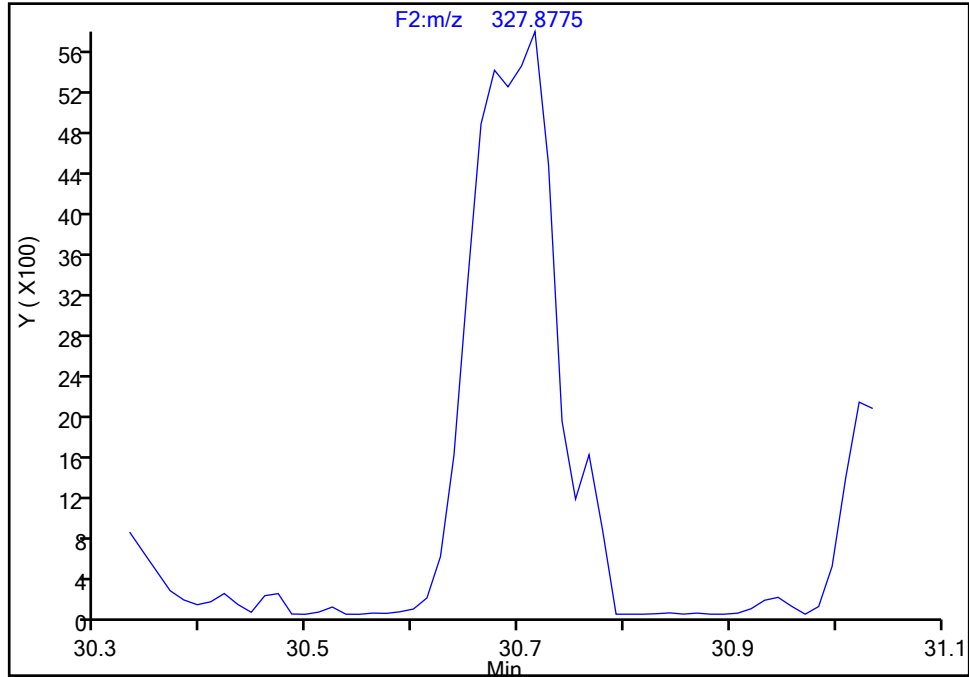
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-121, CAS: 56558-18-0**

Signal: 2

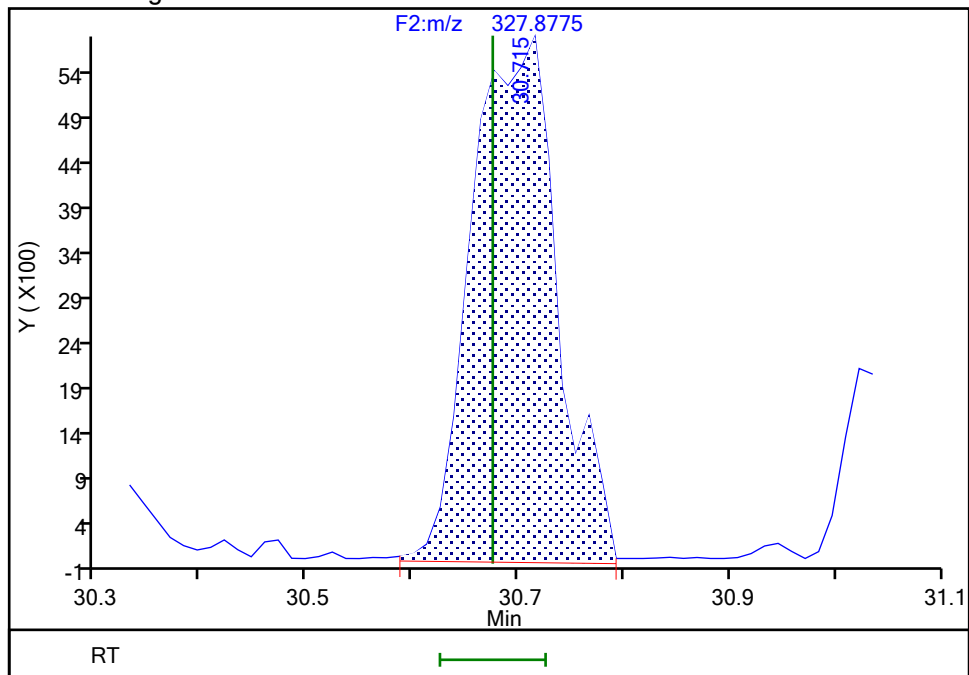
Not Detected  
Expected RT: 30.68

## Processing Integration Results



RT: 30.72  
Area: 32828  
Amount: 1.016498  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024094  
9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

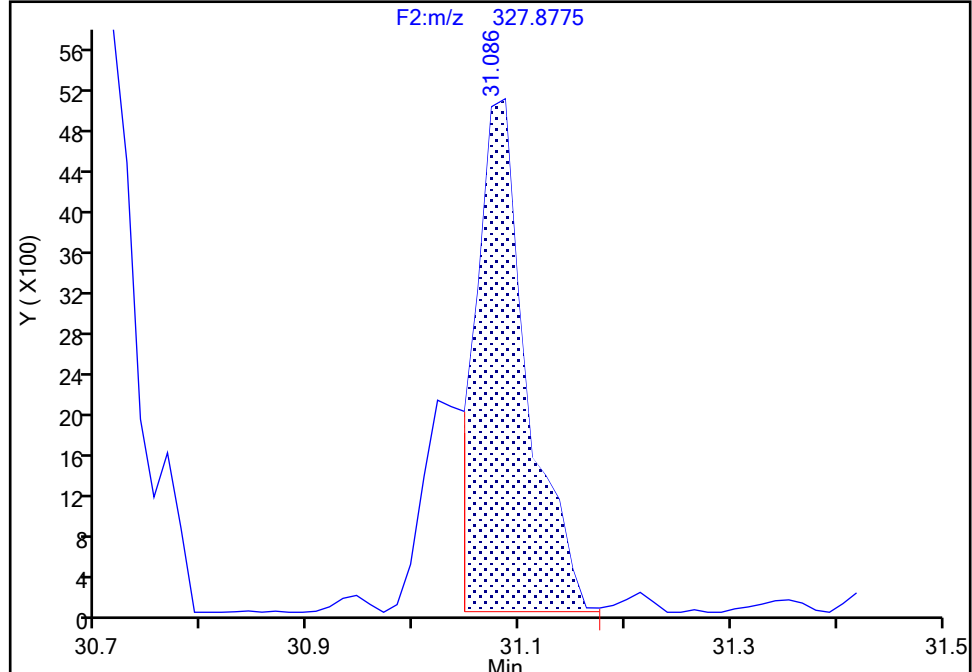
Detector F2(21.81 :35.54 )

**PCB-92, CAS: 52663-61-3**

Signal: 2

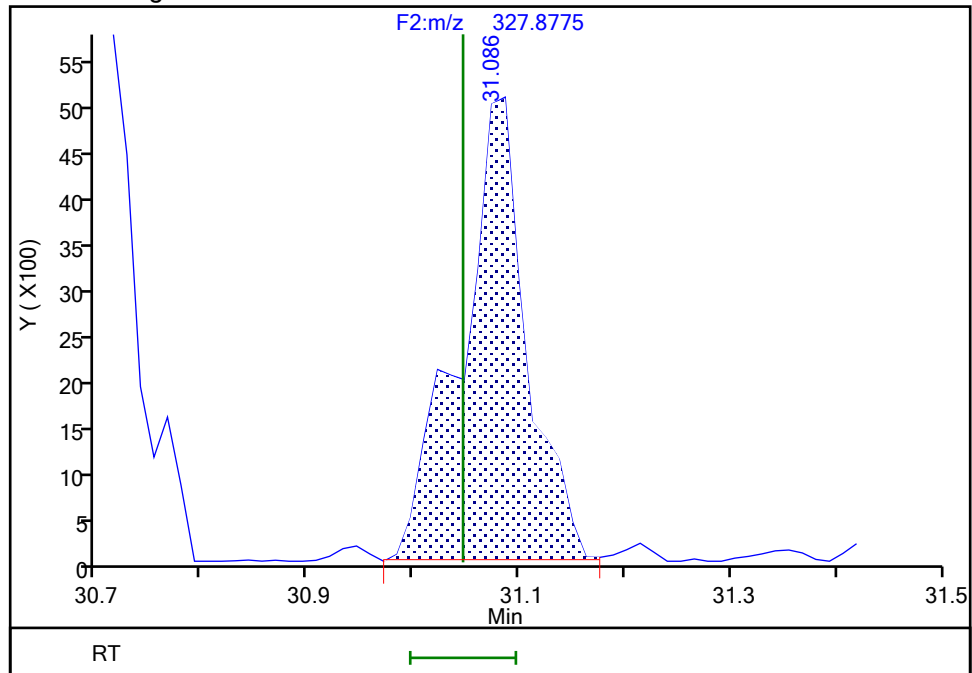
RT: 31.09  
Area: 16788  
Amount: 1.003564  
Amount Units: pg/ul

## Processing Integration Results



RT: 31.09  
Area: 22142  
Amount: 1.060190  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

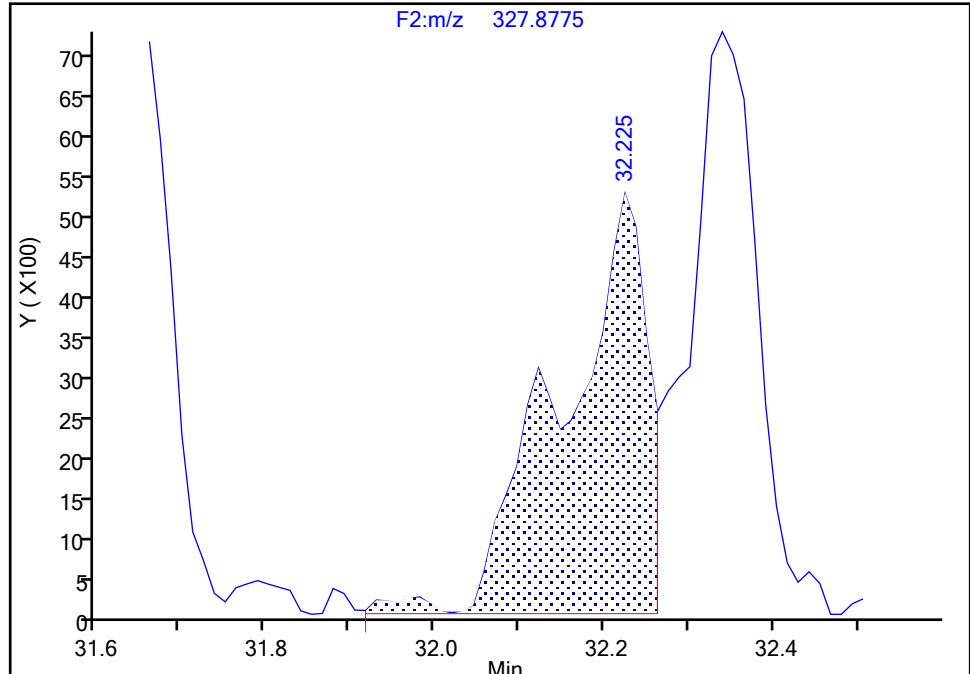
Detector F2(21.81 :35.54 )

**PCB-83/99, CAS: STL01809**

Signal: 2

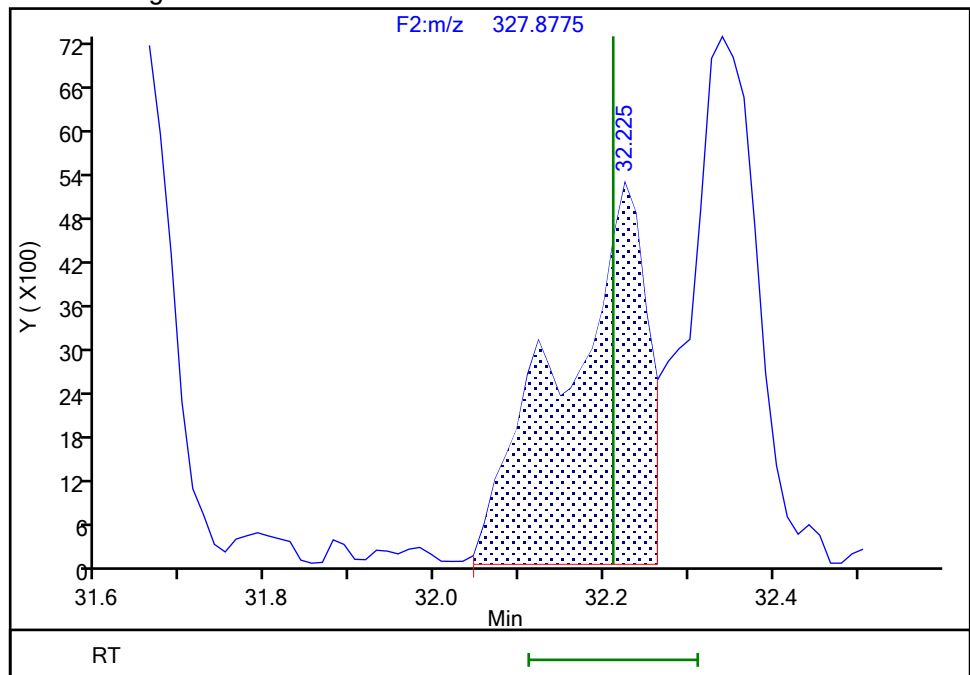
RT: 32.22  
Area: 36700  
Amount: 1.880198  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.22  
Area: 35800  
Amount: 1.935817  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:36:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

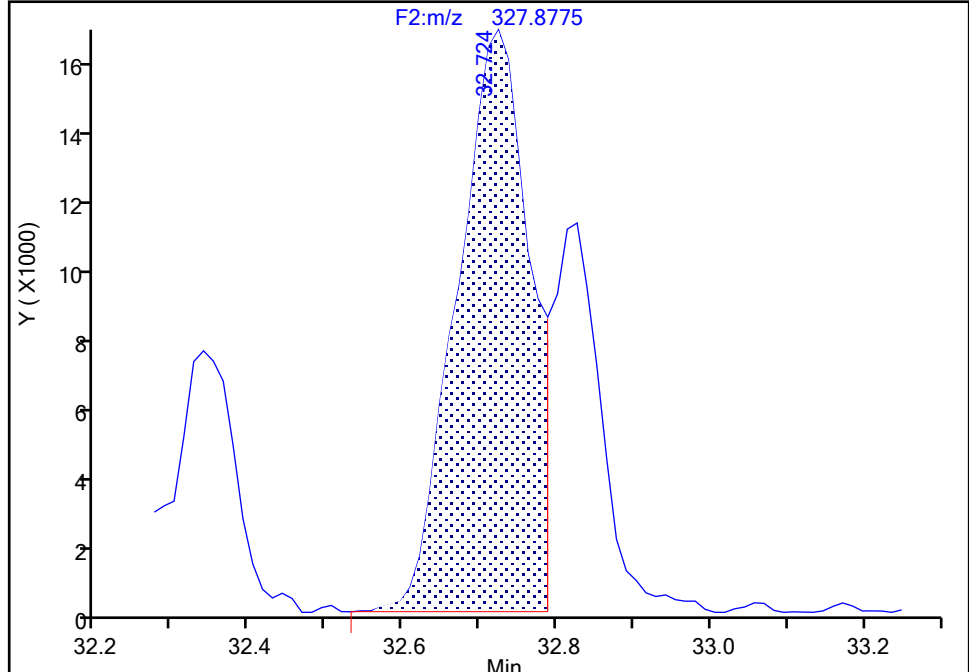
F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

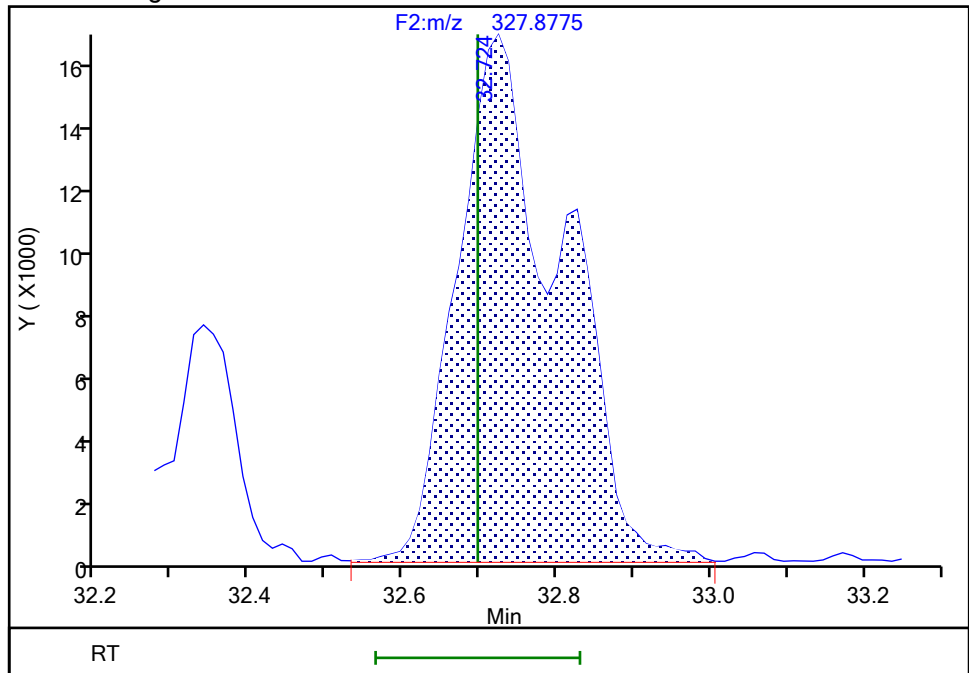
RT: 32.72  
Area: 104672  
Amount: 5.584559  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.72  
Area: 151456  
Amount: 5.816787  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

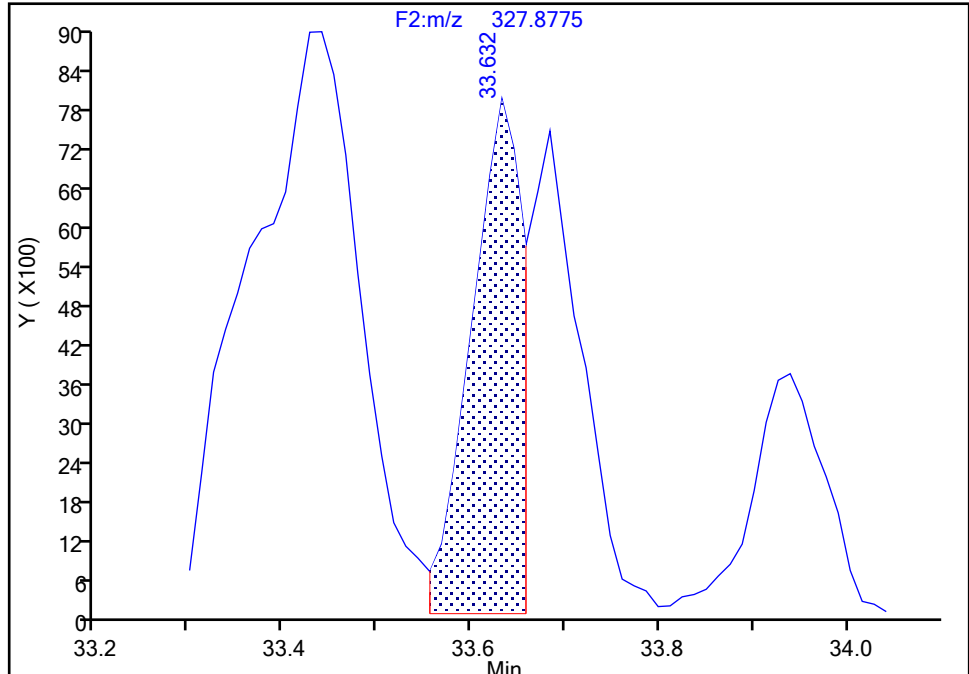
Detector F2(21.81 :35.54 )

**PCB-110/115, CAS: STL01826**

Signal: 2

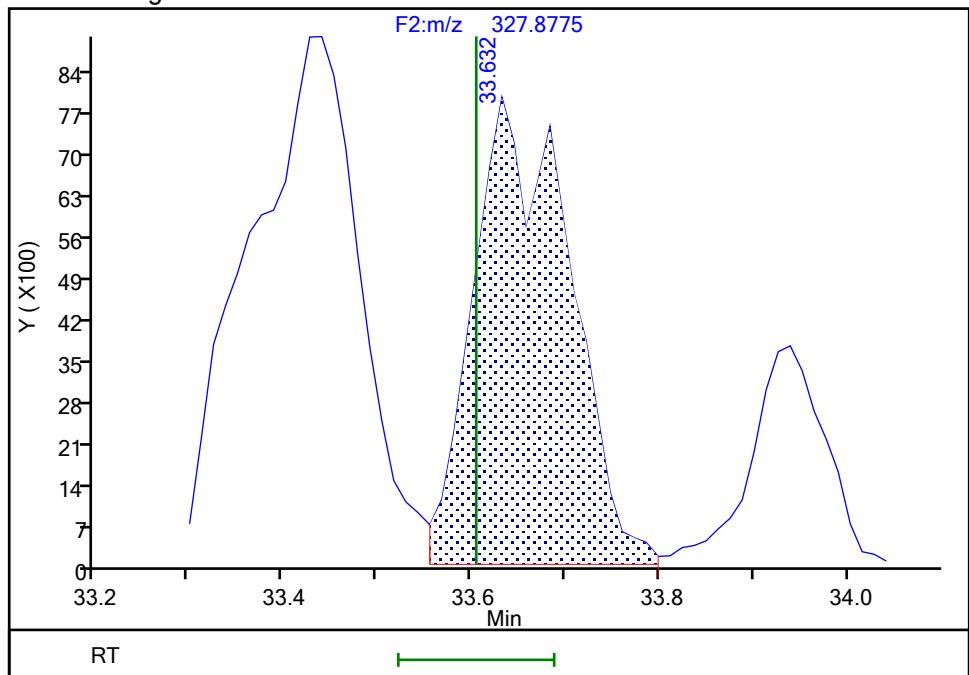
RT: 33.63  
Area: 28445  
Amount: 1.050678  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.63  
Area: 56088  
Amount: 2.059020  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

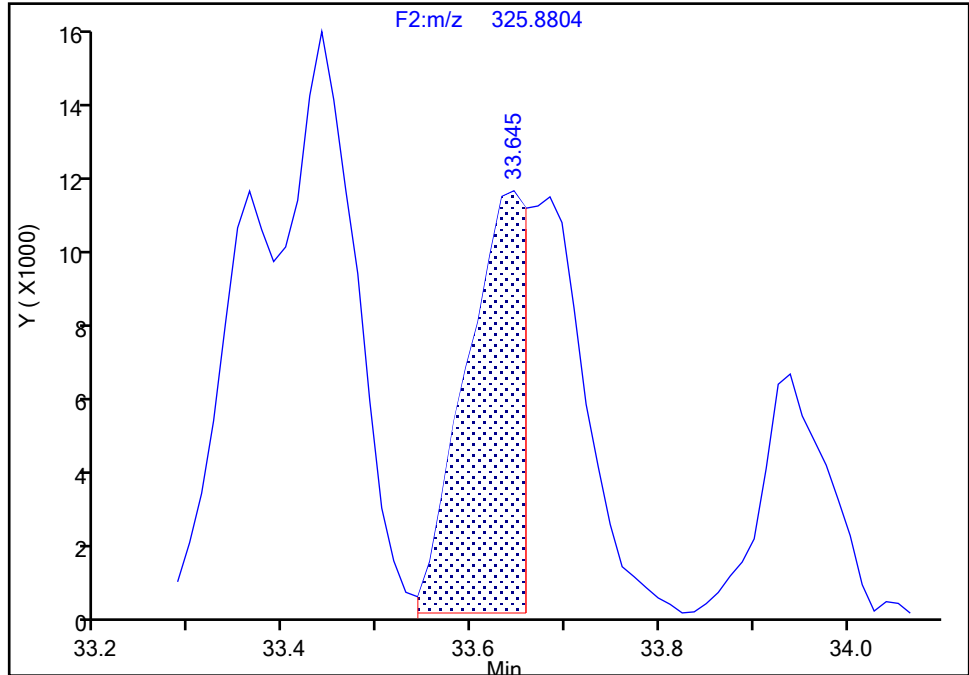
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-110/115, CAS: STL01826**

Signal: 1

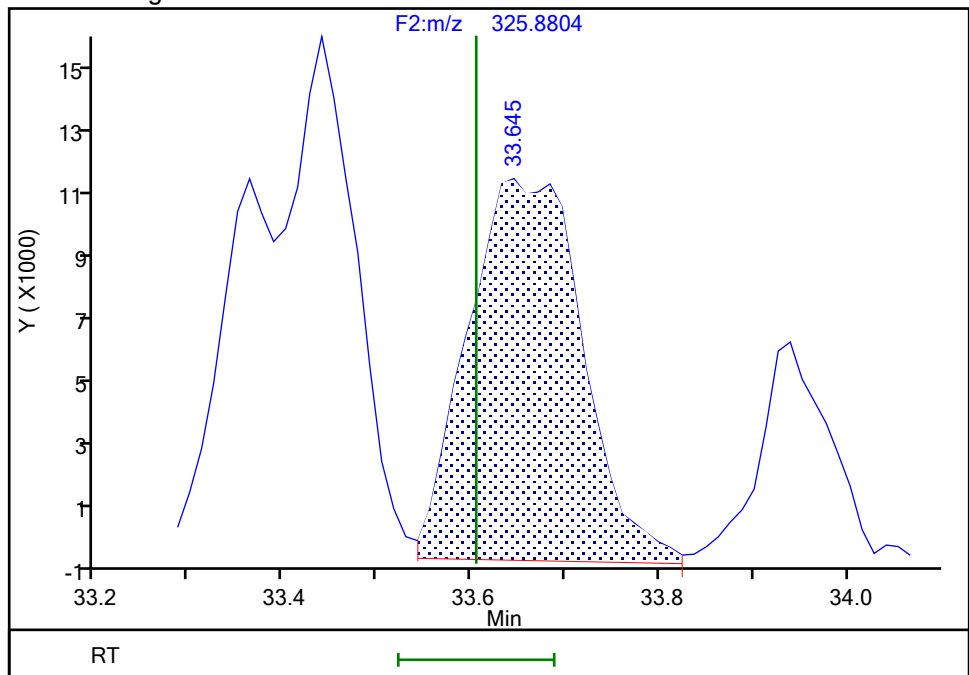
RT: 33.65  
Area: 47401  
Amount: 1.050678  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.65  
Area: 97064  
Amount: 2.059020  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:36:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-0099  
9/6/2024  
3:53:39 PM

Column Dia: 0.25 mm

F3:m/z 327.8775

Y (X1000)

Min

PCB-108/124 35.94

PCB-107 36.18

PCB-122 36.95

PCB-105 37.78

PCB-127 39.25

L PCB-126 40.87

PCB-126 47.16

F3:m/z 337.9207

Y (X100000)

Min

PCB-123L 36.27

PCB-114L 37.11

PCB-127L 39.24

PCB-126L 40.85

41.95 42.71 43.86 47.10

Chromatogram showing peaks for PCB-123L, PCB-114L, PCB-127L, and PCB-126L. The x-axis is time in minutes (35.0 to 49.0) and the y-axis is intensity (Y (X10000)). Peaks are labeled with retention times: 36.27, 37.11, 39.24, 40.85, 39.71, 41.96, 42.72, 43.87, and 47.09.

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

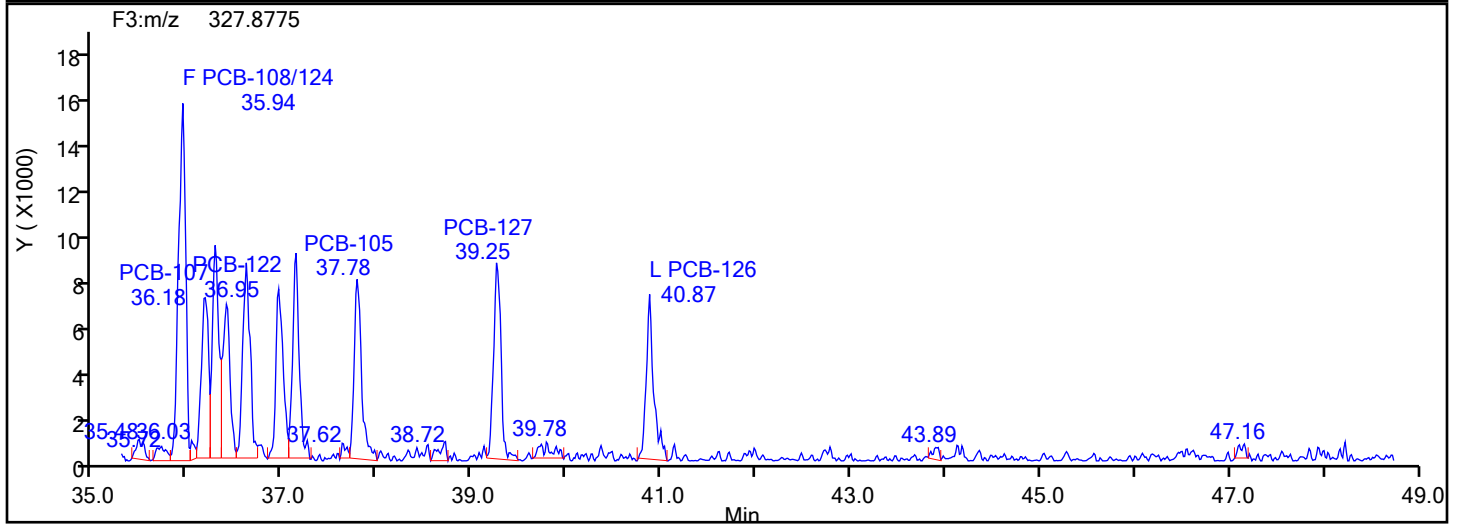
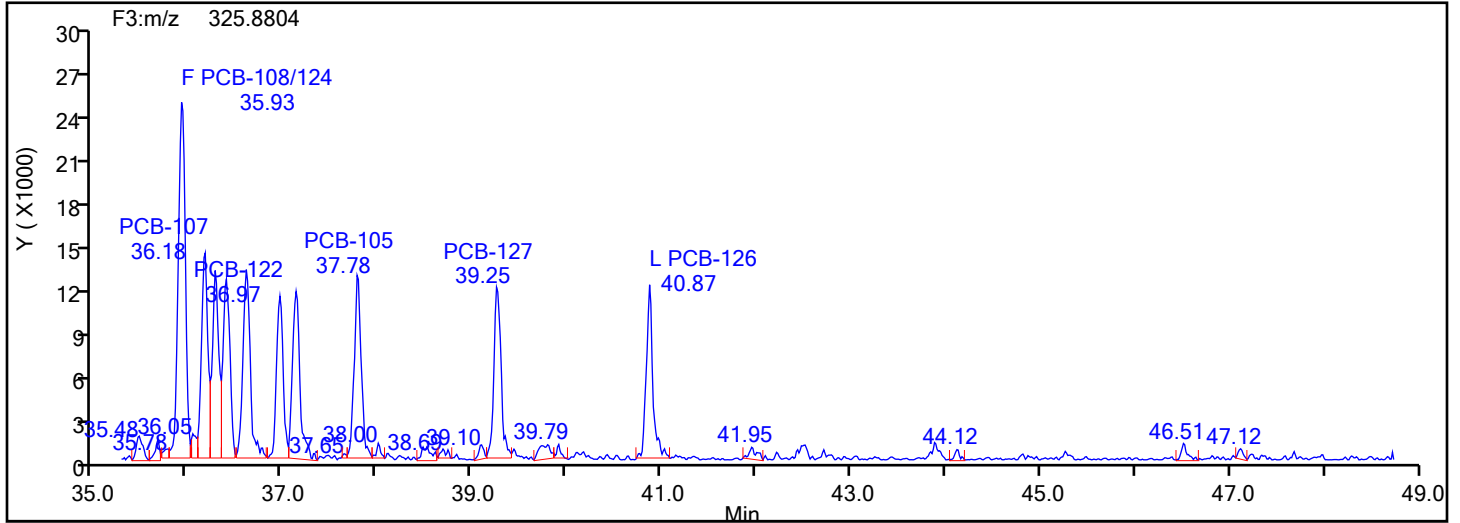
Worklist#: 87130

Sample Line#: 2

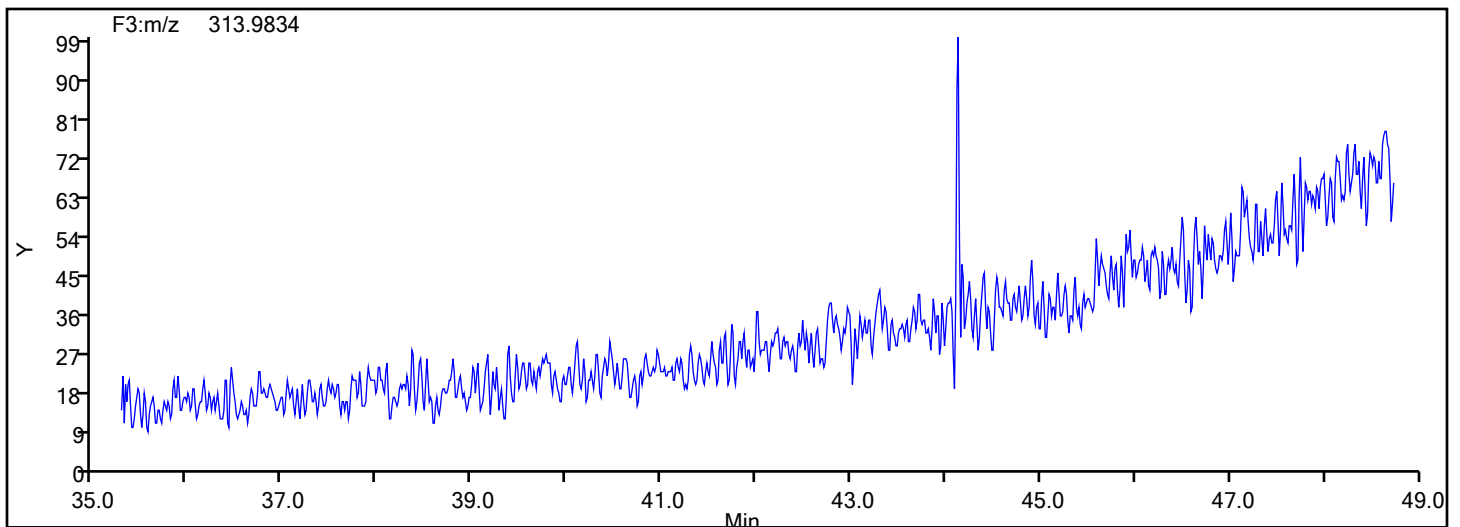
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



## PePCB F3 Lock Mass



## Eurofins Knoxville

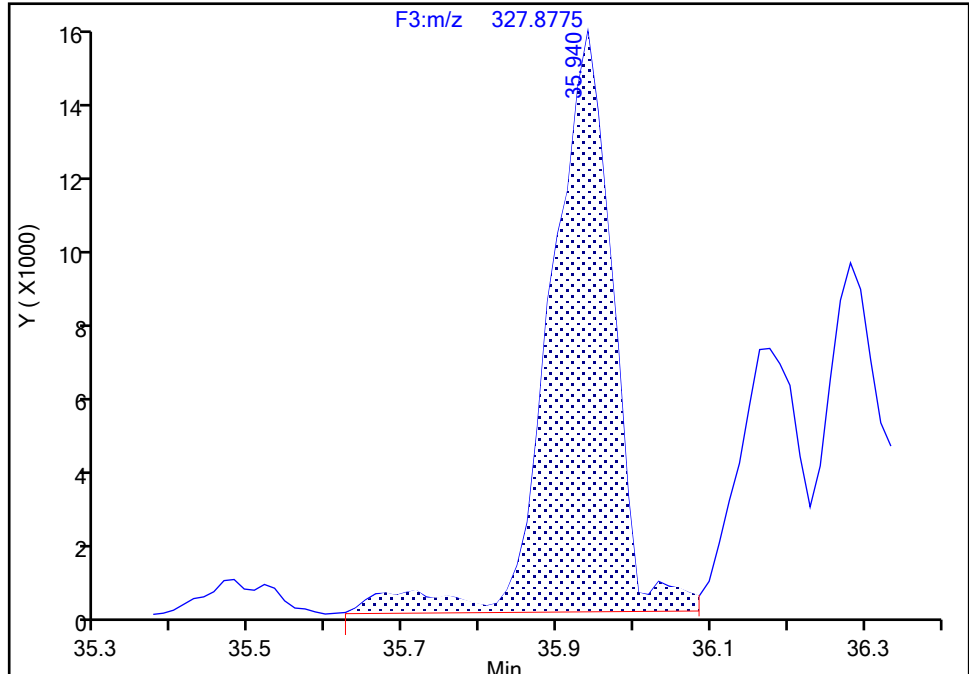
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-108/124, CAS: STL02294

Signal: 2

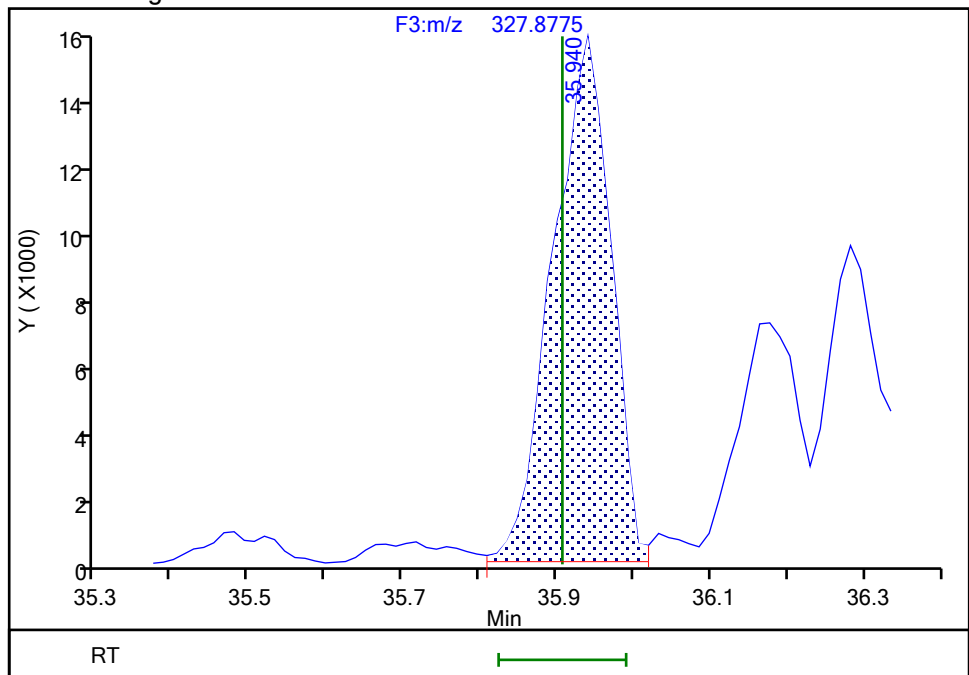
RT: 35.94  
Area: 85784  
Amount: 2.094460  
Amount Units: pg/ul

## Processing Integration Results



RT: 35.94  
Area: 79414  
Amount: 1.988181  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:09:34 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak



## Eurofins Knoxville

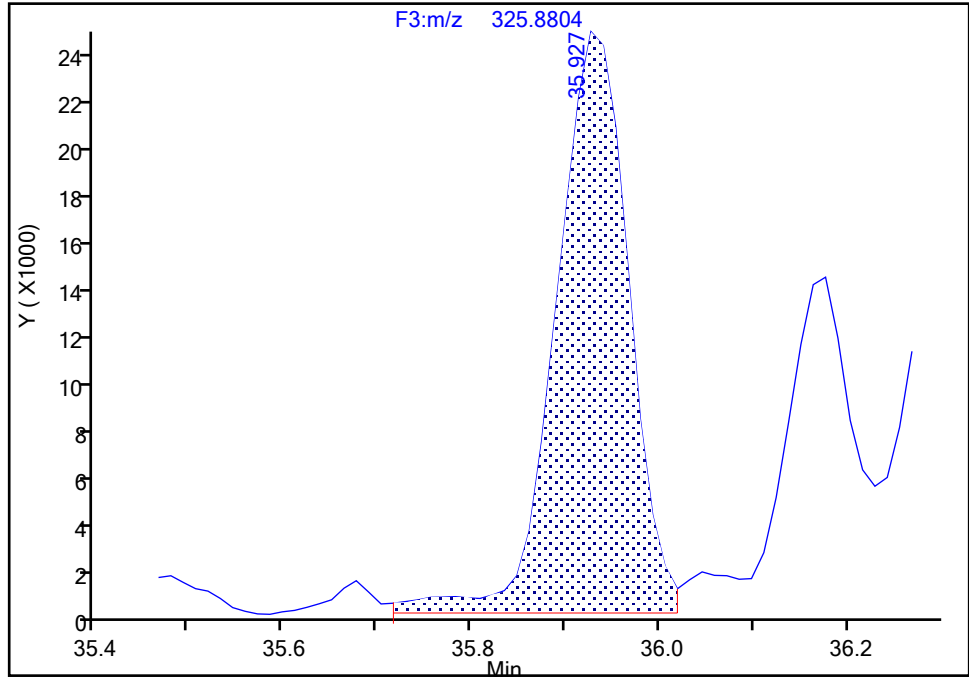
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-108/124, CAS: STL02294

Signal: 1

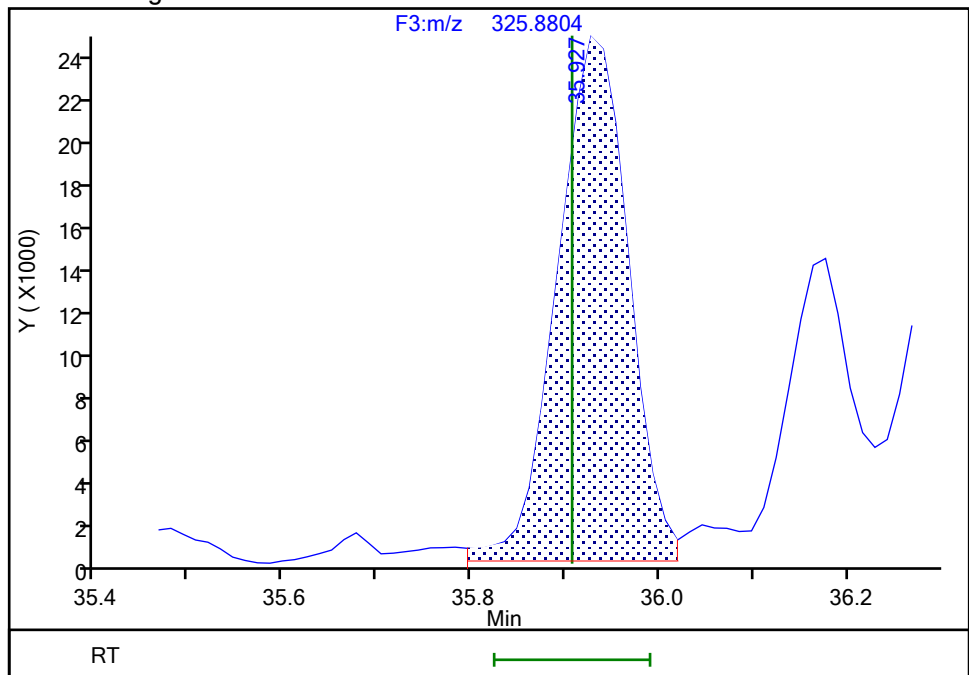
RT: 35.93  
Area: 131741  
Amount: 2.094460  
Amount Units: pg/ul

## Processing Integration Results



RT: 35.93  
Area: 129156  
Amount: 1.988181  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:09:37 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

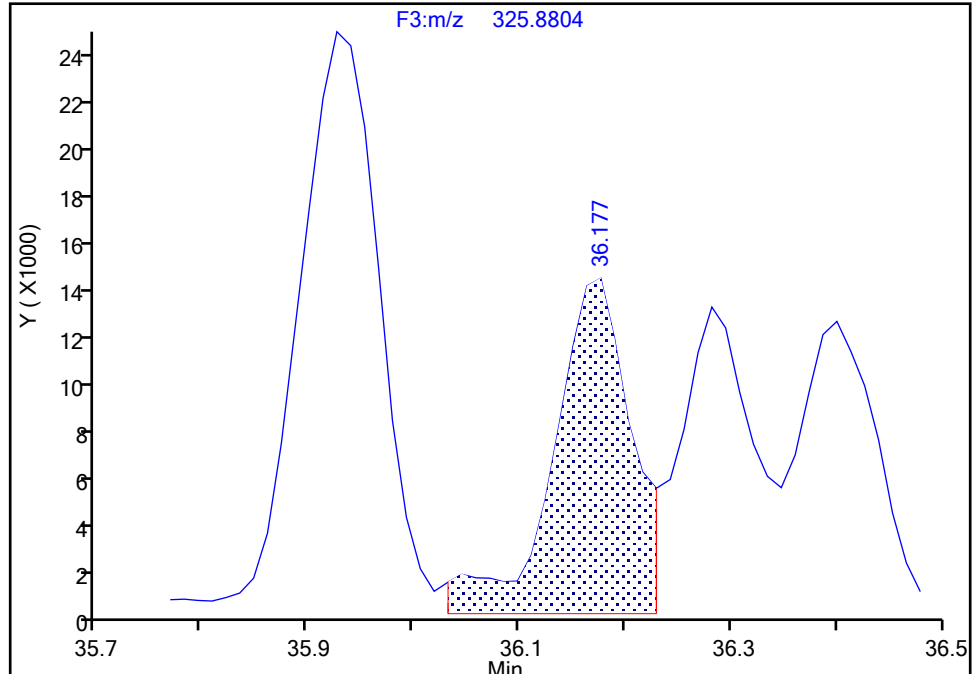
Detector F3(35.64 :49.10 )

**PCB-107, CAS: 70424-68-9**

Signal: 1

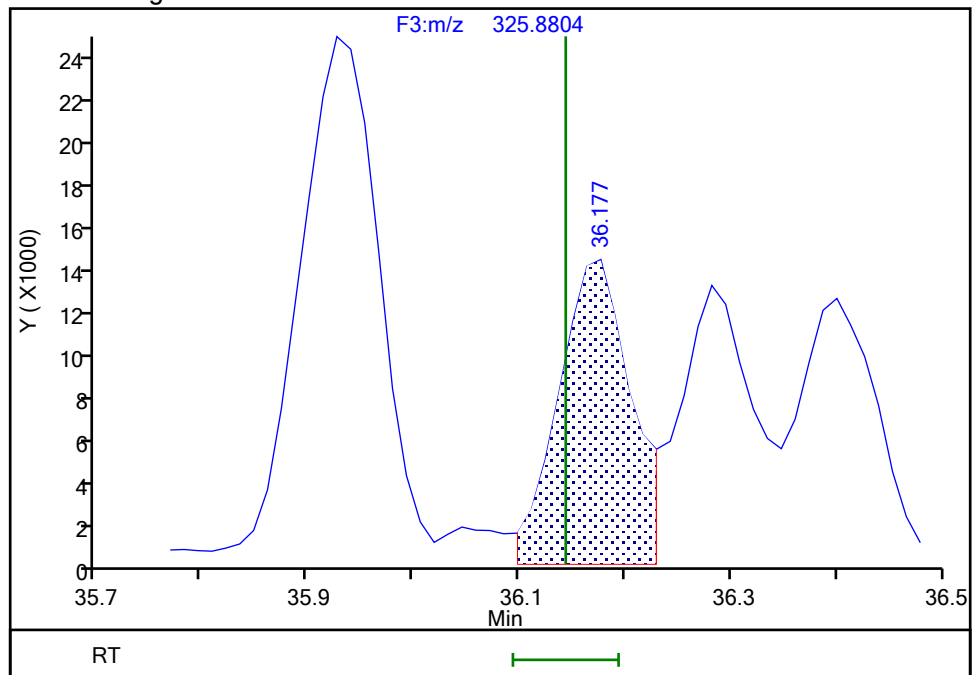
RT: 36.18  
Area: 71873  
Amount: 0.939406  
Amount Units: pg/ul

## Processing Integration Results



RT: 36.18  
Area: 65956  
Amount: 0.919787  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:09:17 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

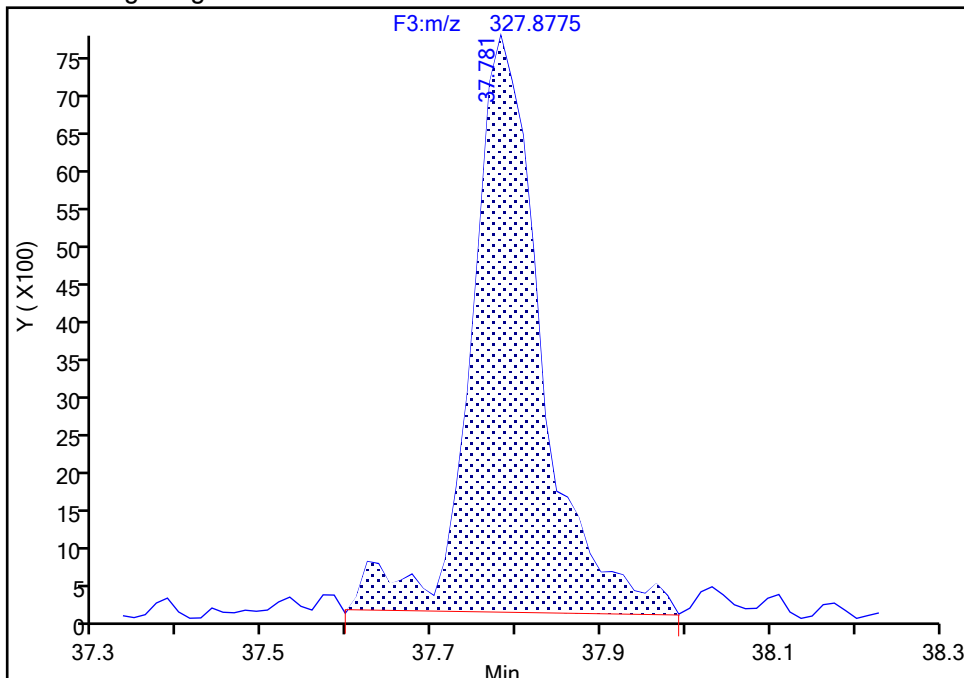
Audit Reason: Split Peak

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d		
Injection Date:	31-May-2024 16:53:00	Instrument ID:	D2D
Lims ID:	IC L2		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

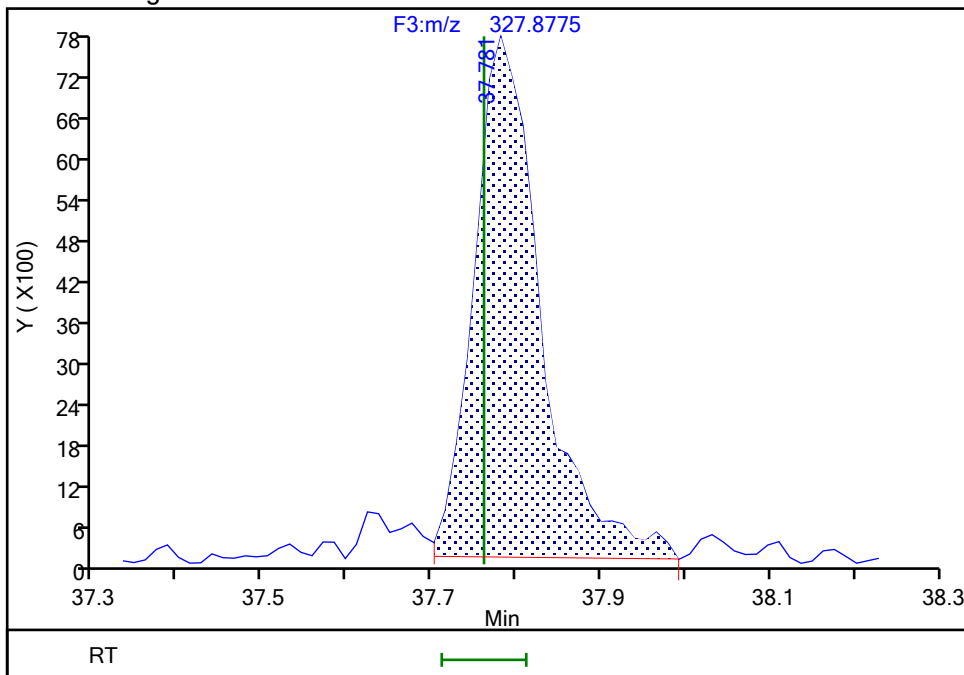
ALS Bottle#: 0 Worklist Smp#: 2  
Dil. Factor: 1.0000  
Limit Group: HR - EPA\_23 PCB ICAL  
Detector F3(35.64 :49.10 )

Signal: 2

RT: 37.78  
Area: 44477  
Amount: 1.021569  
Amount Units: pg/ul



RT: 37.78  
Area: 42090  
Amount: 0.993744  
Amount Units: pg/ul



Audit Reason: Split Peak

## Eurofins Knoxville

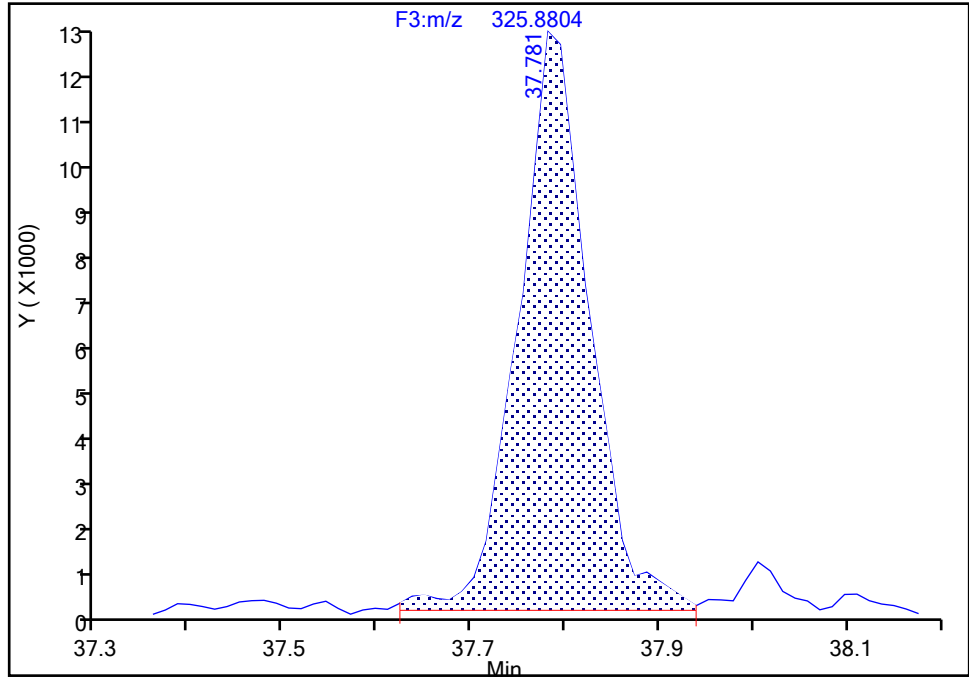
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-105, CAS: 32598-14-4

Signal: 1

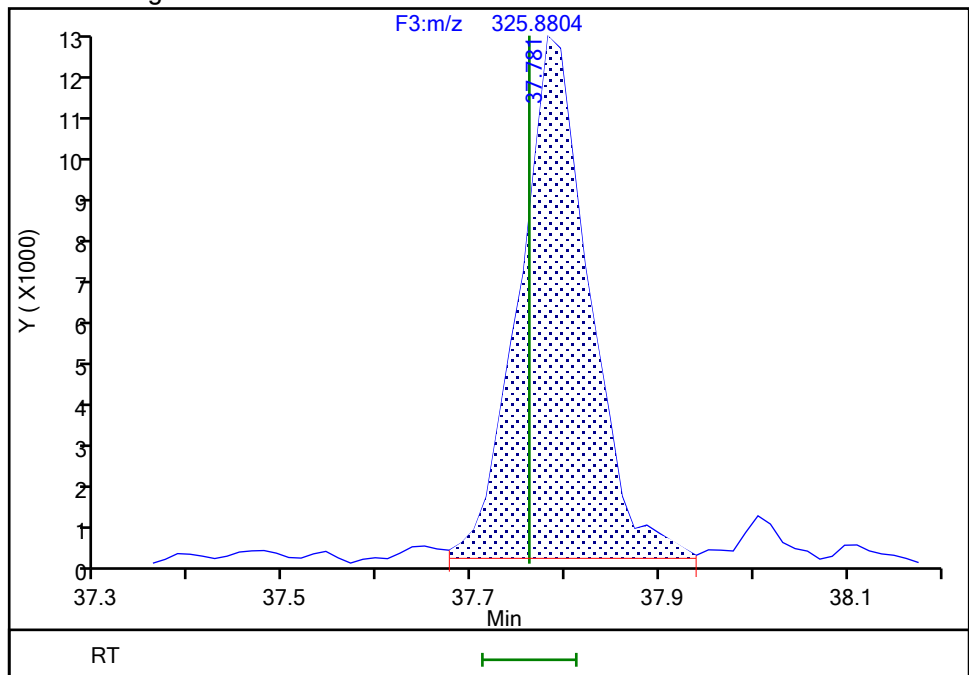
RT: 37.78  
Area: 66144  
Amount: 1.021569  
Amount Units: pg/ul

## Processing Integration Results



RT: 37.78  
Area: 65351  
Amount: 0.993744  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:37:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

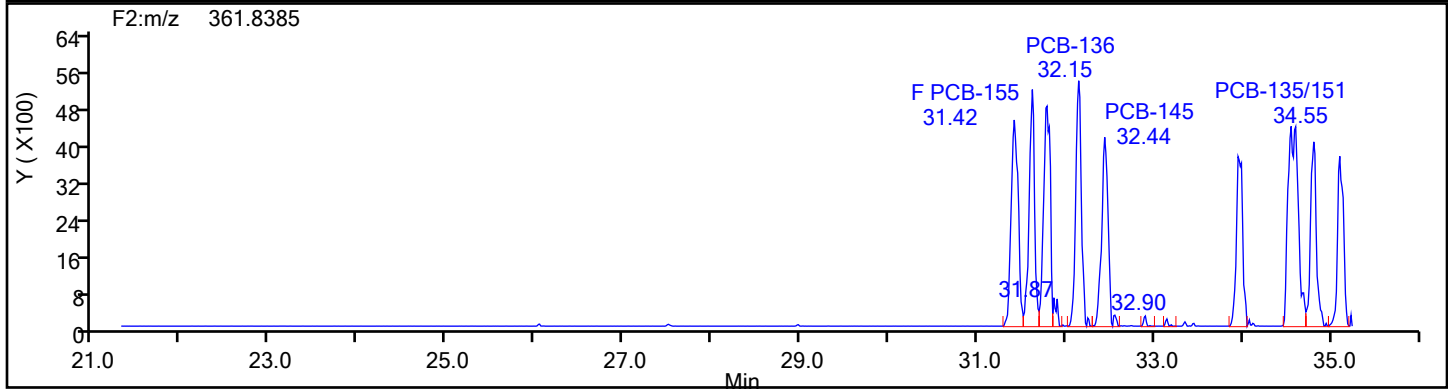
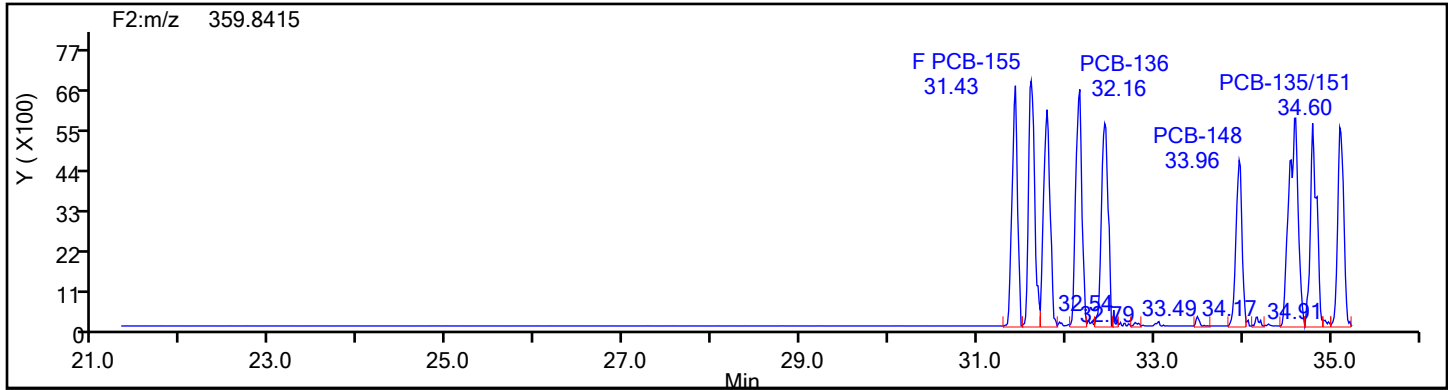
Worklist#: 87130

Sample Line#: 2

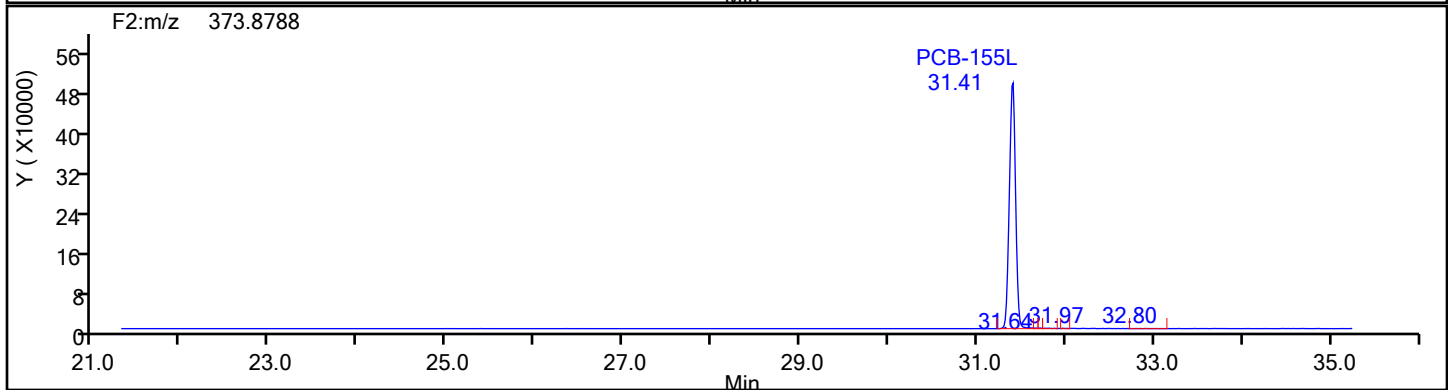
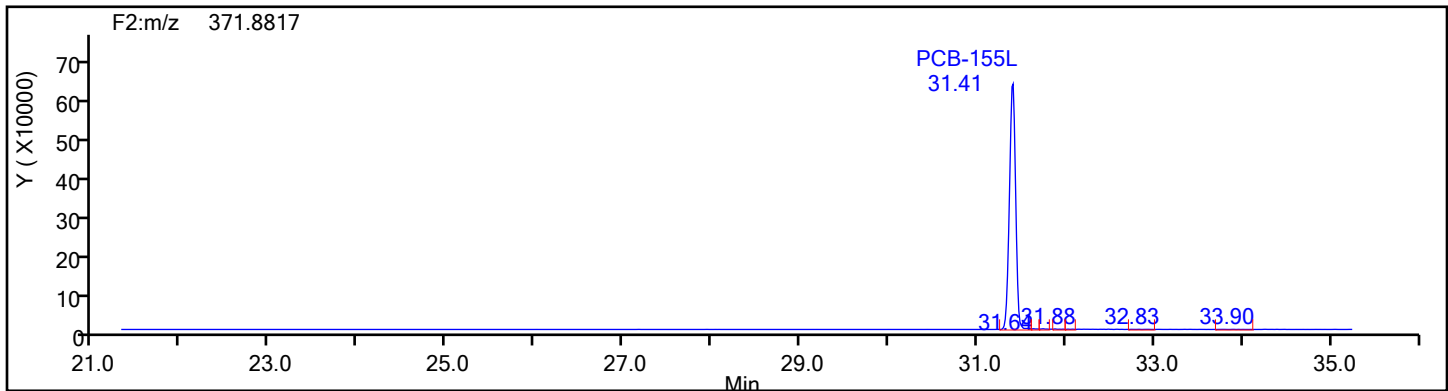
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

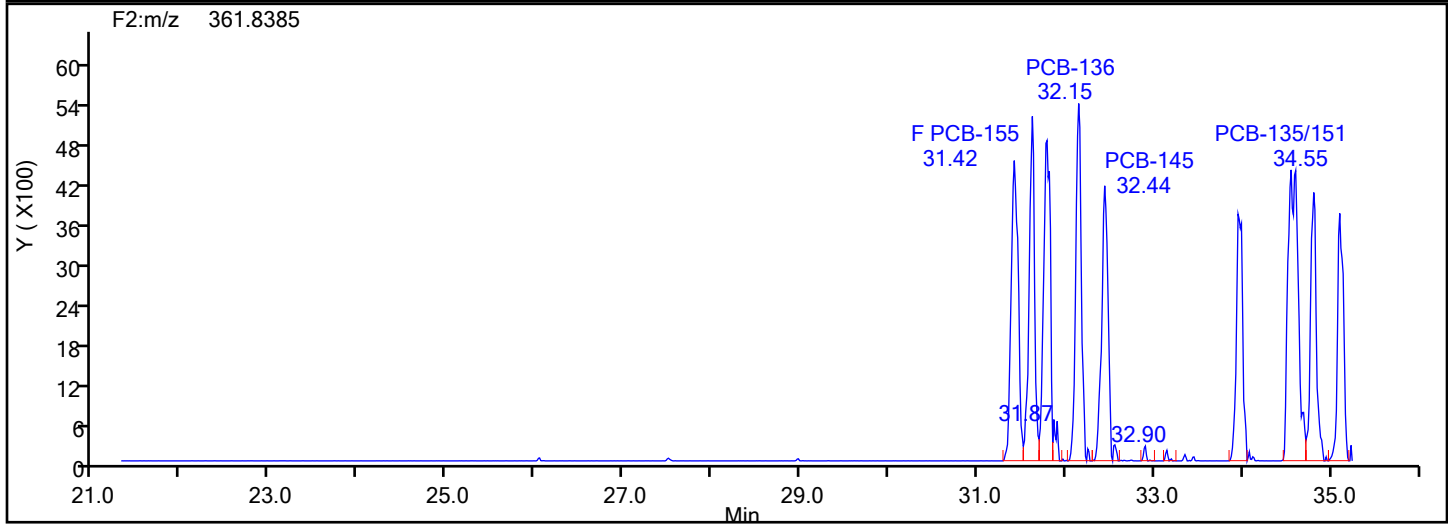
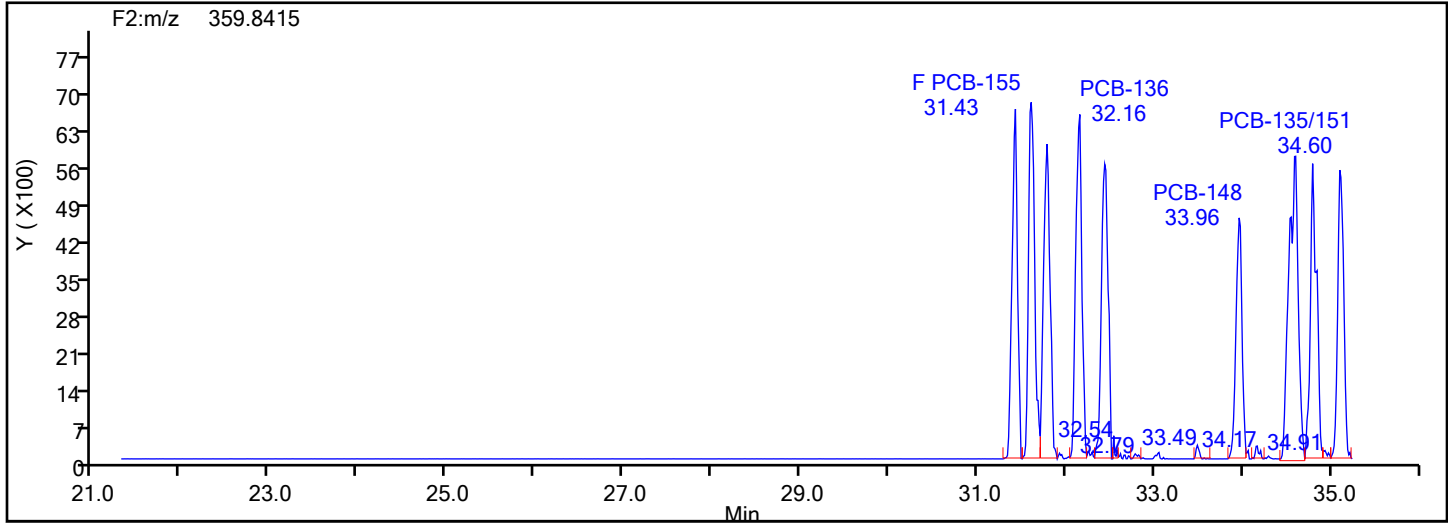
Worklist#: 87130

Sample Line#: 2

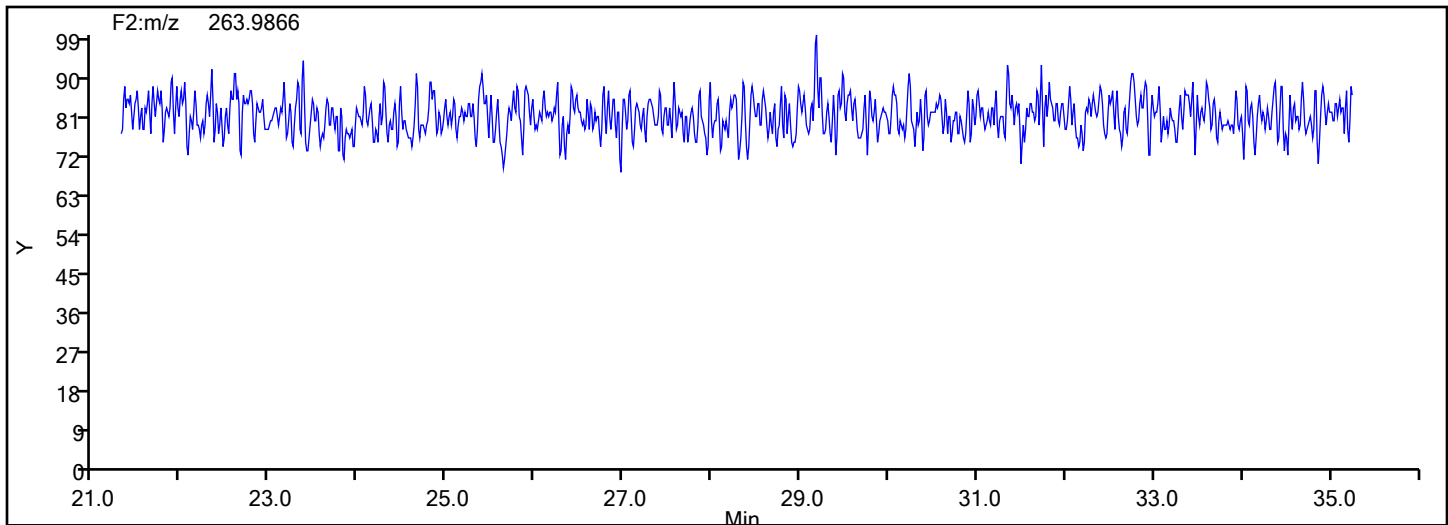
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

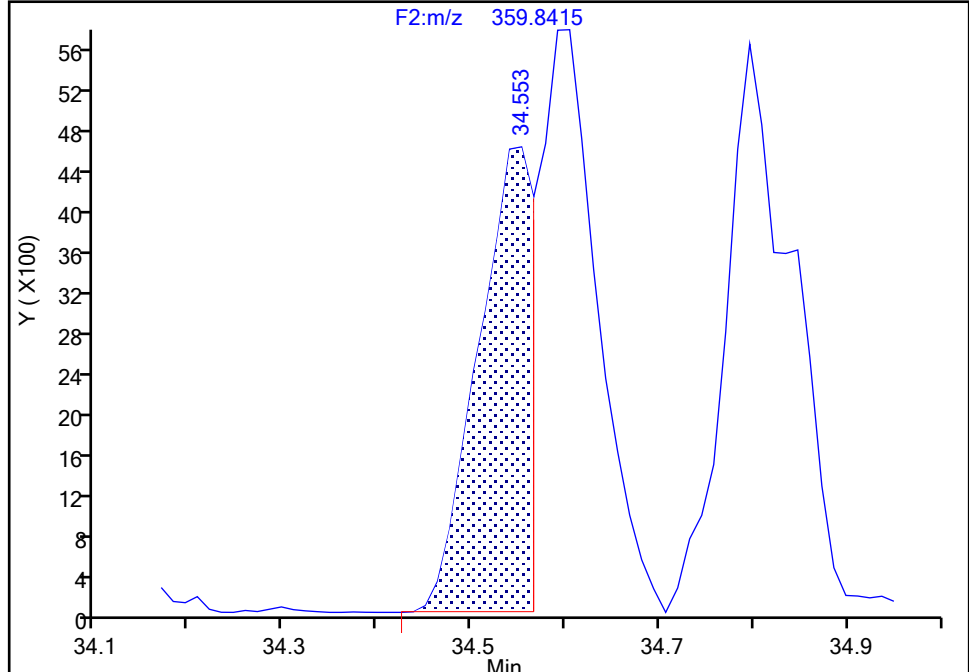
Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 1

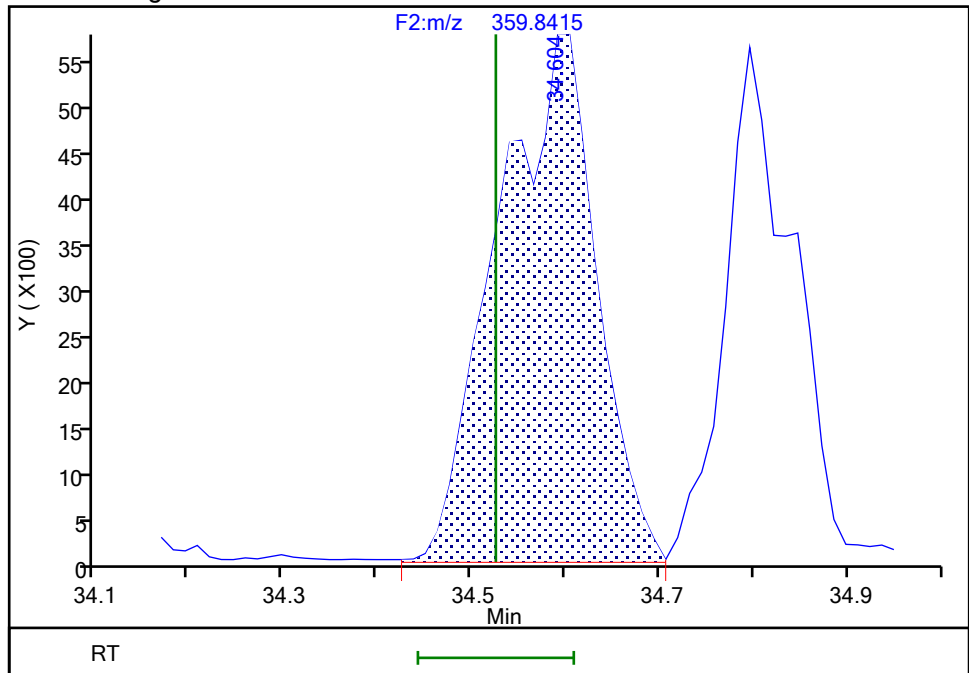
RT: 34.55  
Area: 17791  
Amount: 0.966805  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.60  
Area: 42637  
Amount: 1.937644  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

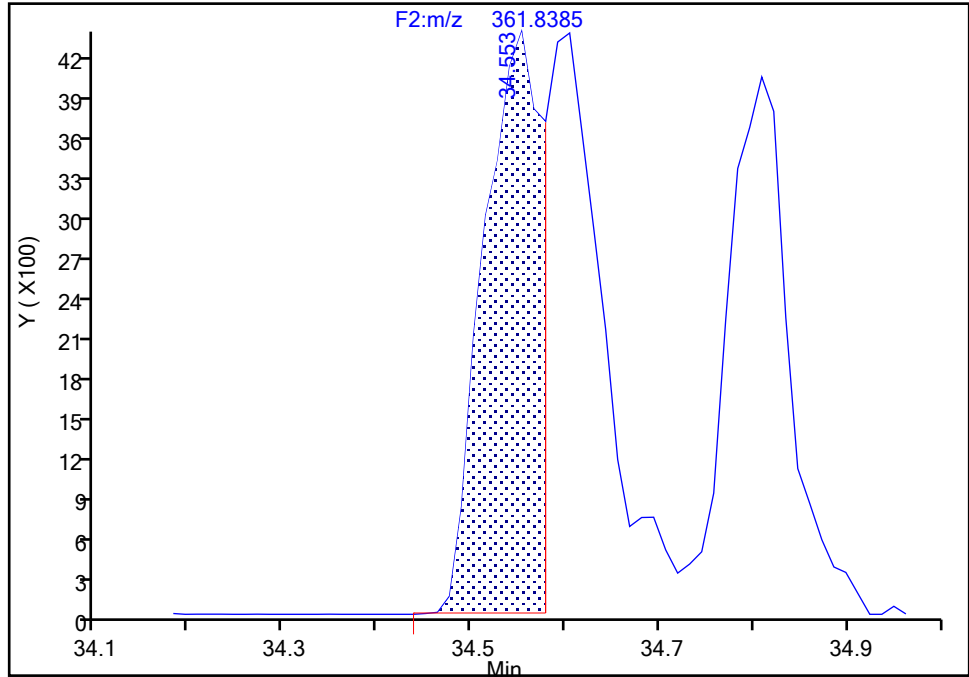
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 2

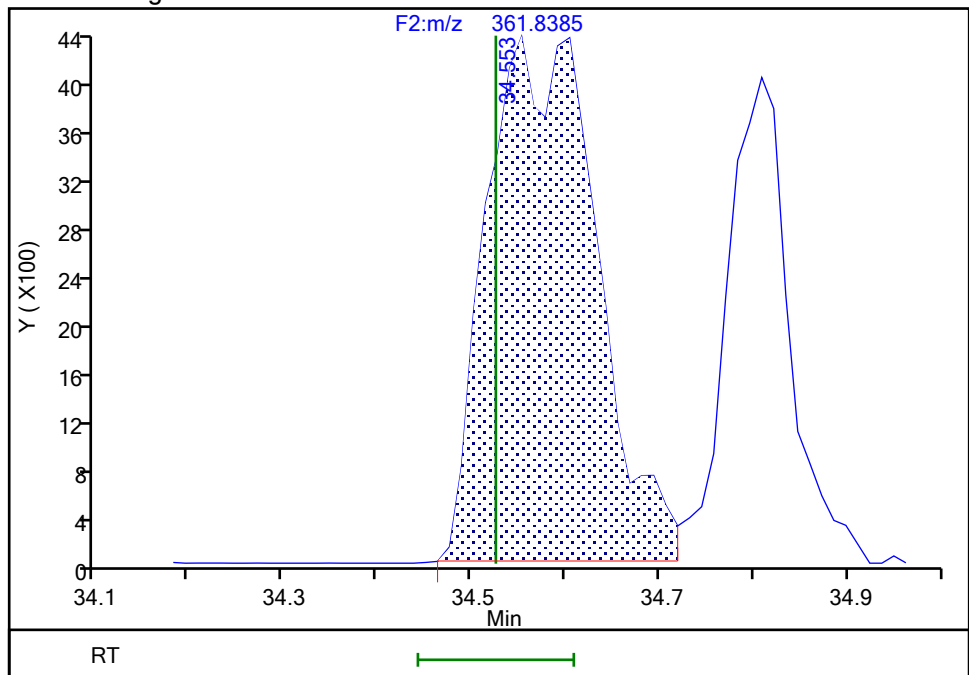
RT: 34.55  
Area: 18073  
Amount: 0.966805  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.55  
Area: 35628  
Amount: 1.937644  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-1110  
9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

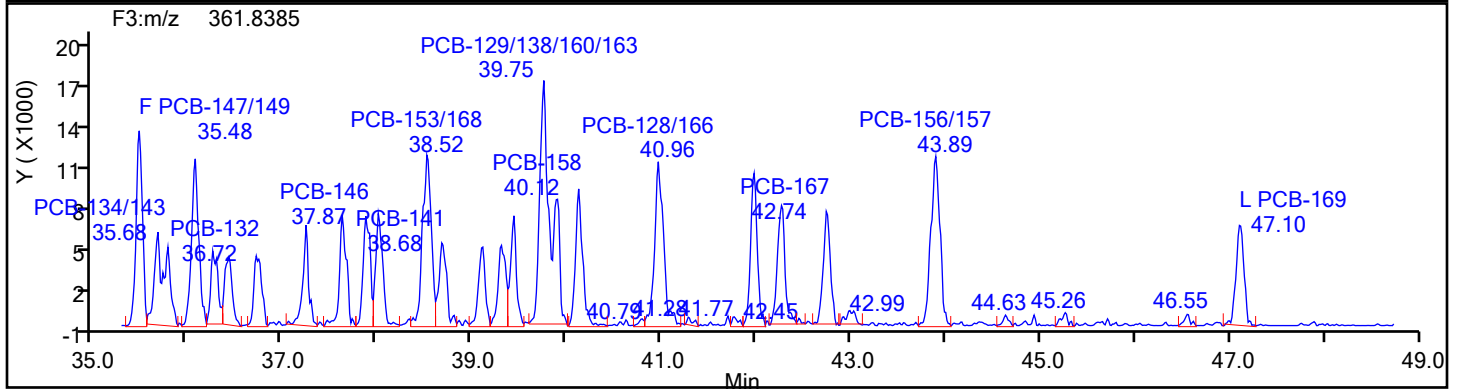
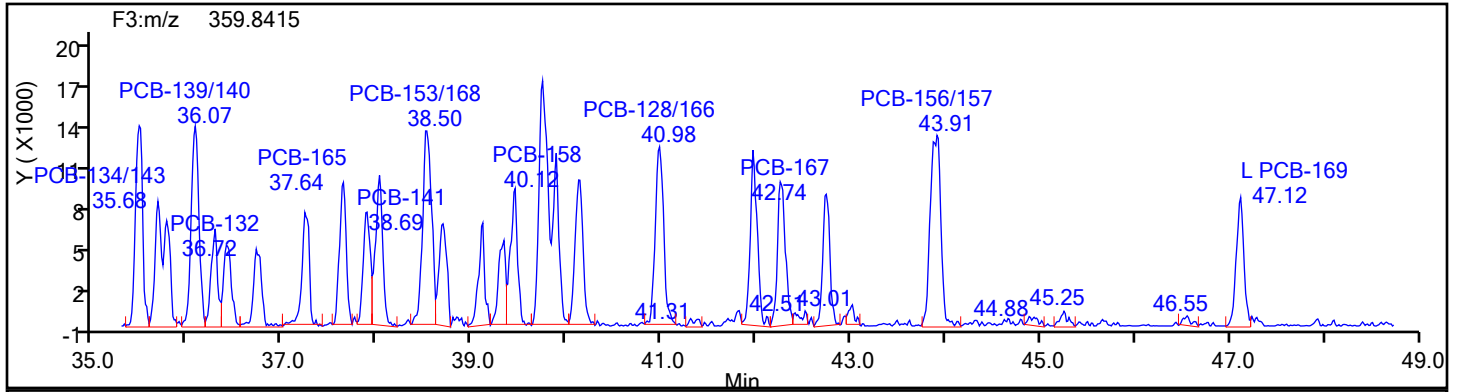
Worklist#: 87130

Sample Line#: 2

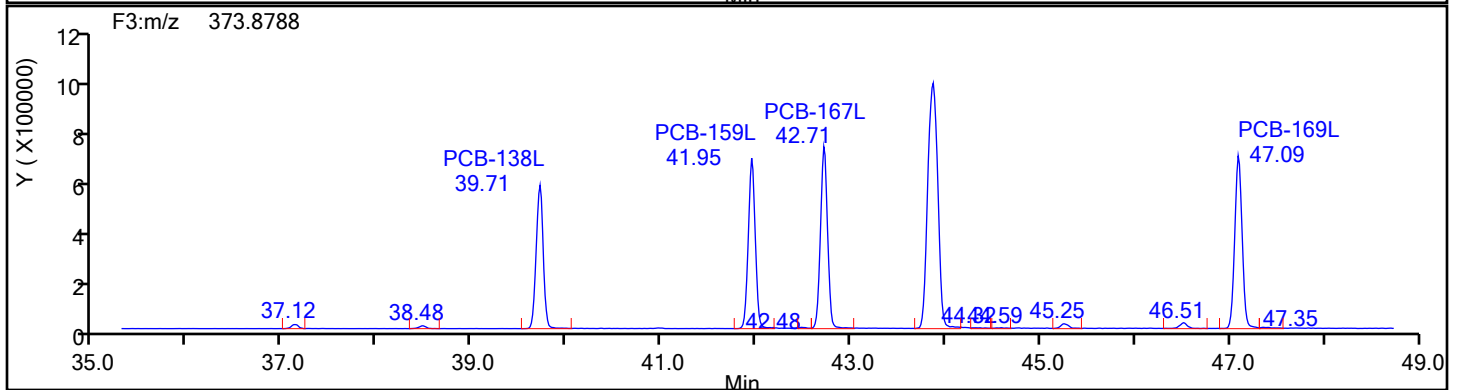
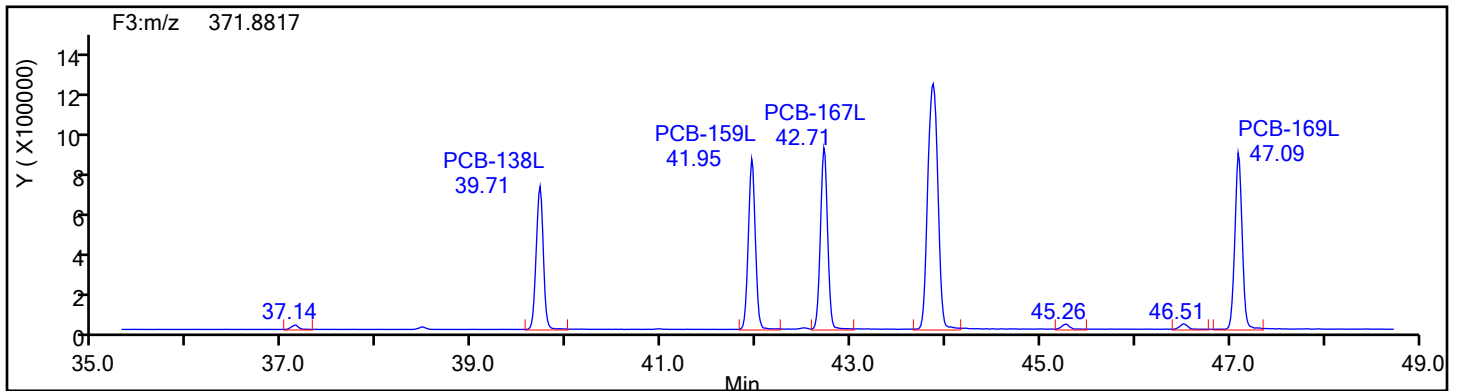
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

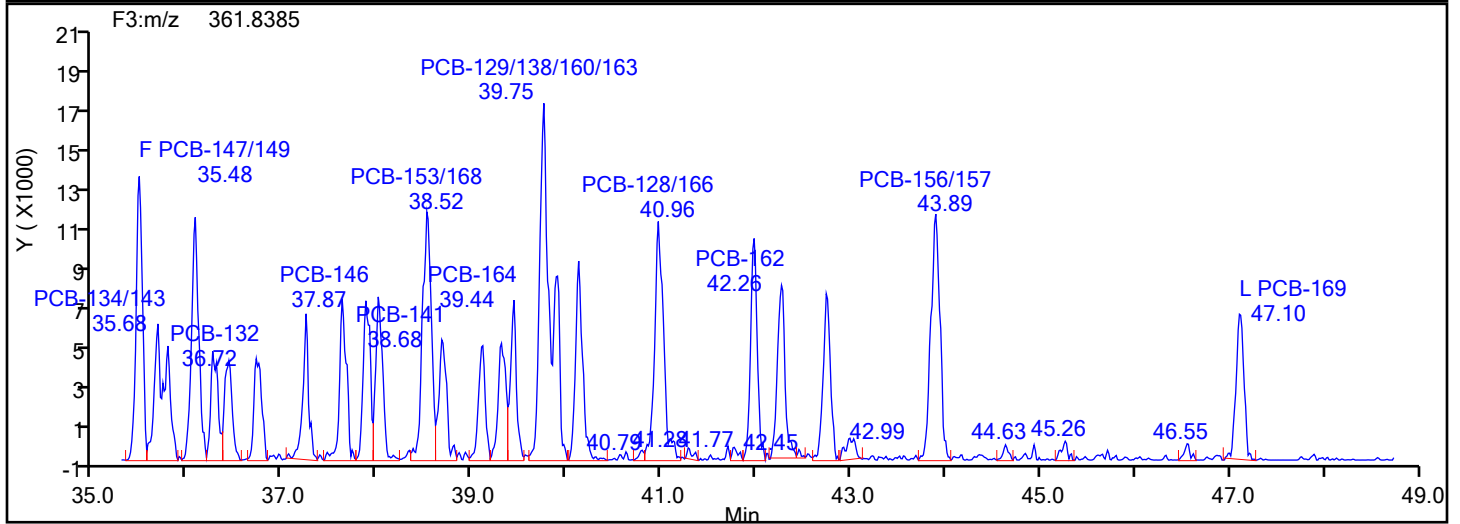
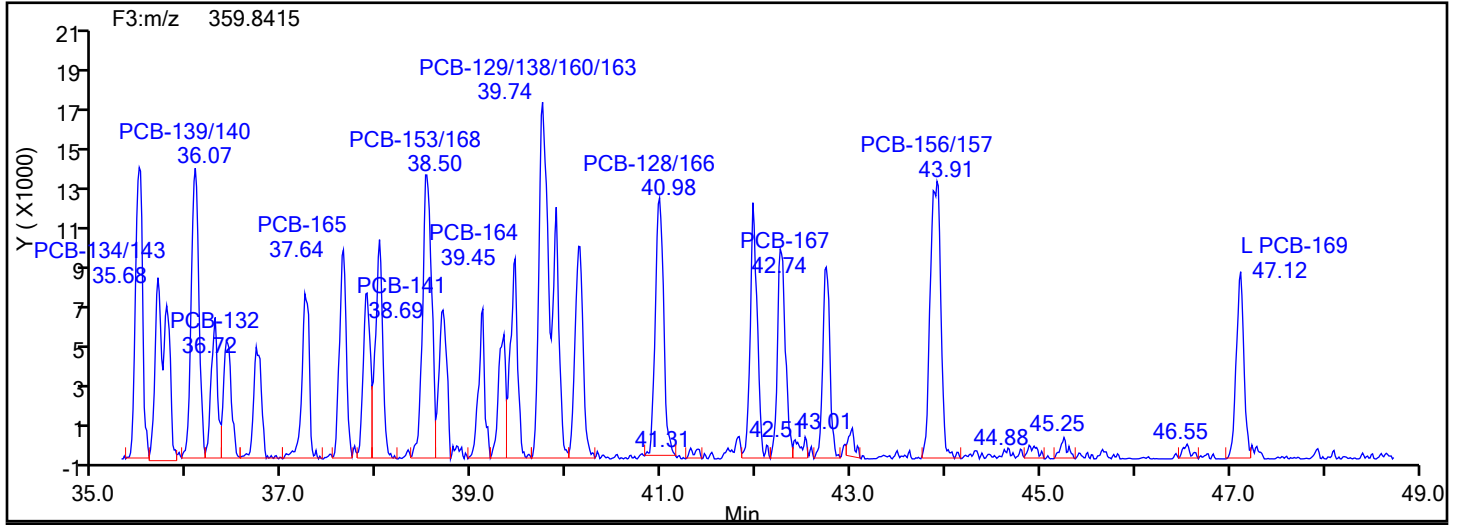
Worklist#: 87130

Sample Line#: 2

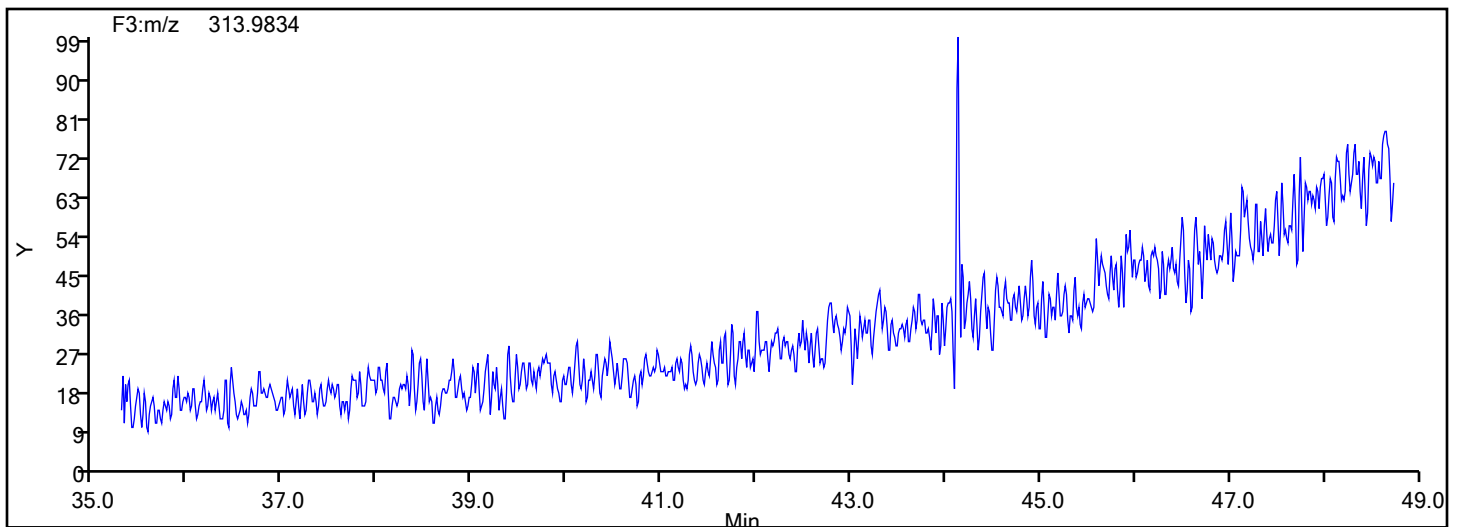
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

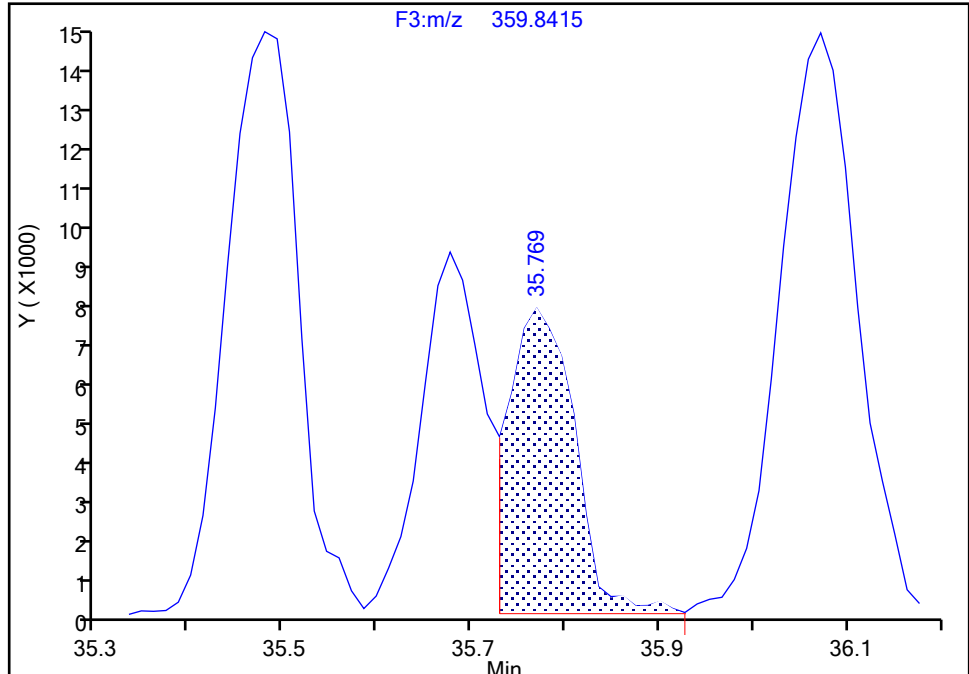
Detector F3(35.64 :49.10 )

**PCB-134/143, CAS: STL01818**

Signal: 1

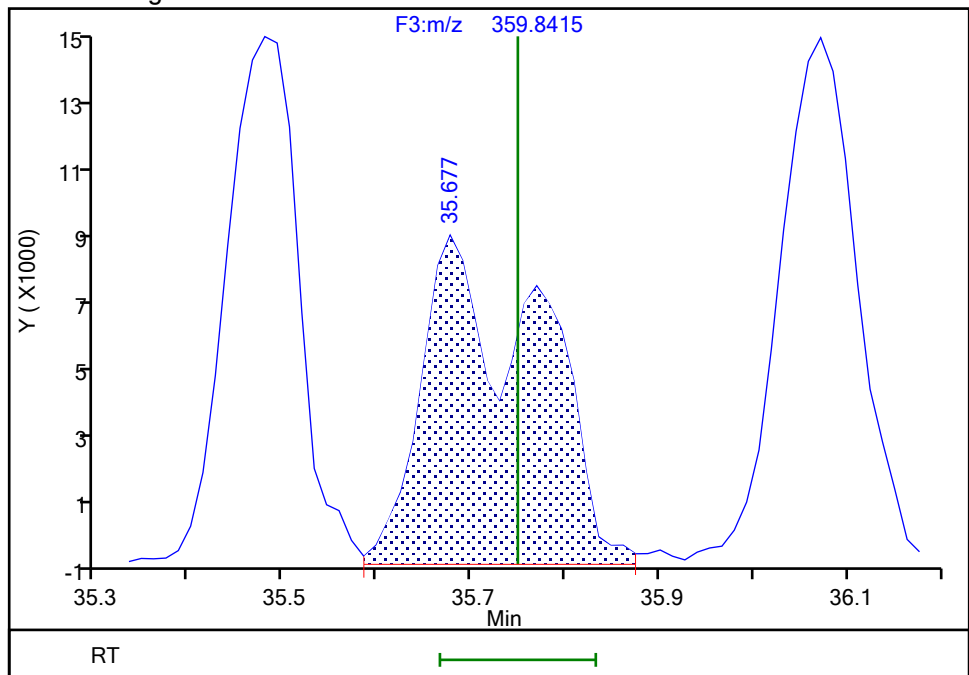
RT: 35.77  
Area: 35338  
Amount: 1.102163  
Amount Units: pg/ul

## Processing Integration Results



RT: 35.68  
Area: 75510  
Amount: 2.011887  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

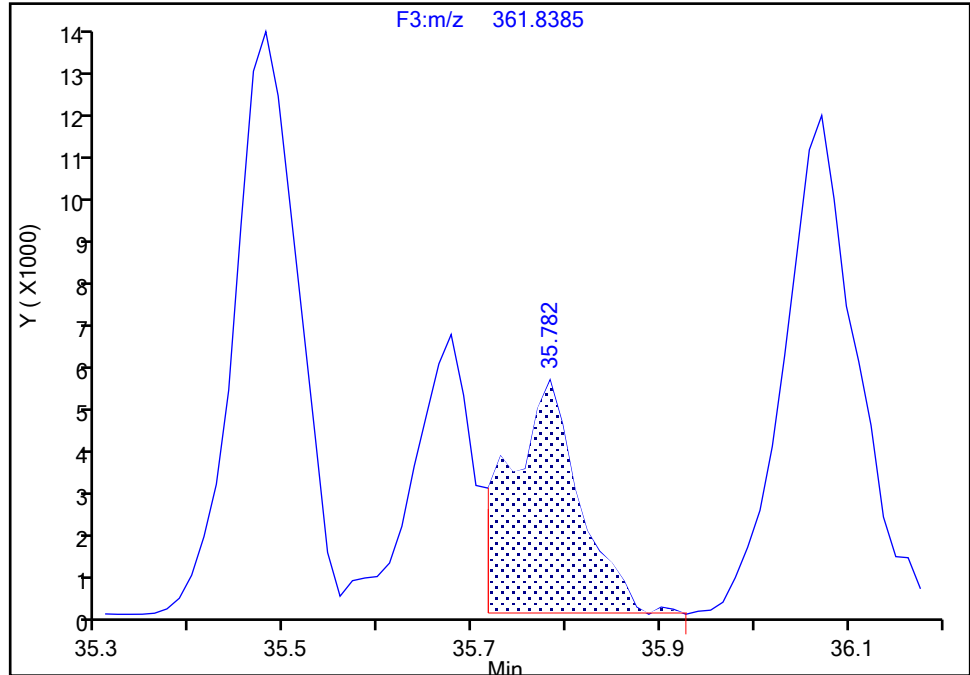
F3(35.64 :49.10 )

**PCB-134/143, CAS: STL01818**

Signal: 2

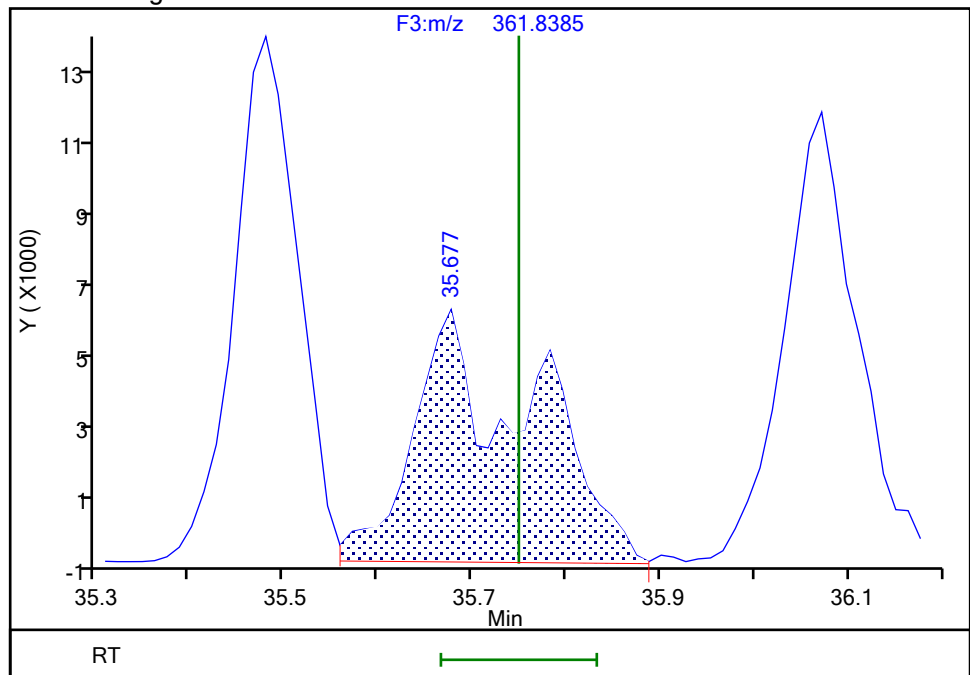
RT: 35.78  
Area: 27425  
Amount: 1.102163  
Amount Units: pg/ul

## Processing Integration Results



RT: 35.68  
Area: 55371  
Amount: 2.011887  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:38:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 1990 of 3373

BASFHWC-F-2024-1114

9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

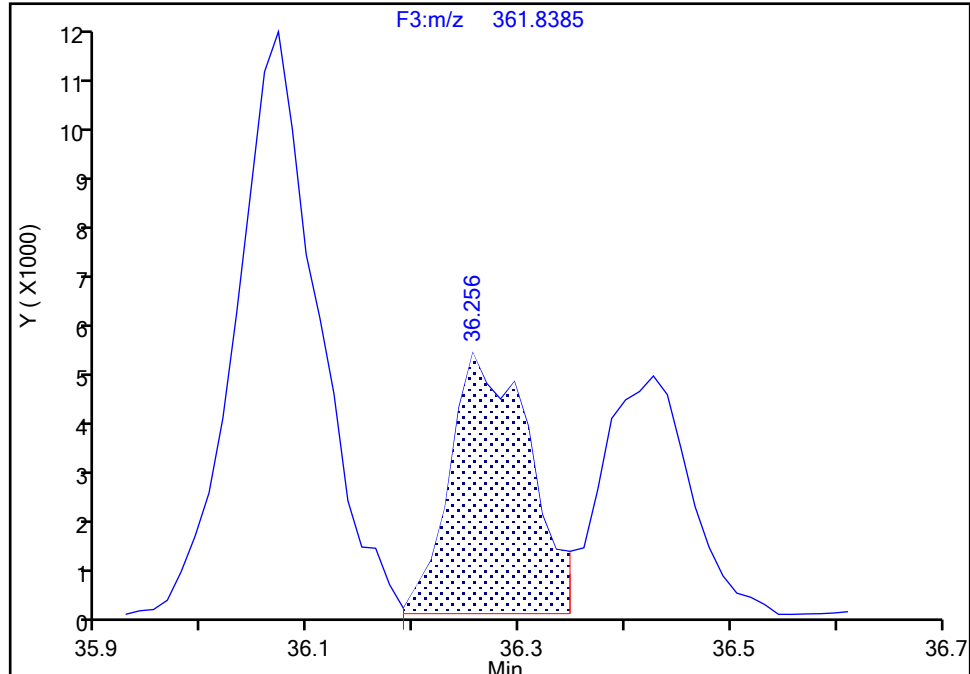
Detector F3(35.64 :49.10 )

**PCB-131, CAS: 61798-70-7**

Signal: 2

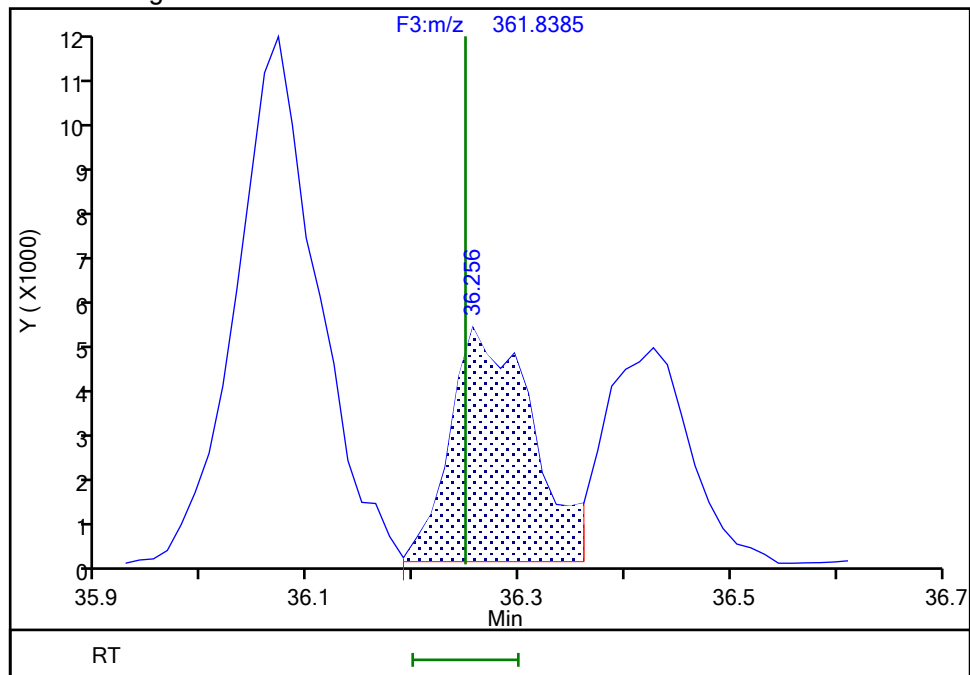
RT: 36.26  
Area: 26689  
Amount: 0.932978  
Amount Units: pg/ul

## Processing Integration Results



RT: 36.26  
Area: 27457  
Amount: 0.984032  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:35:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

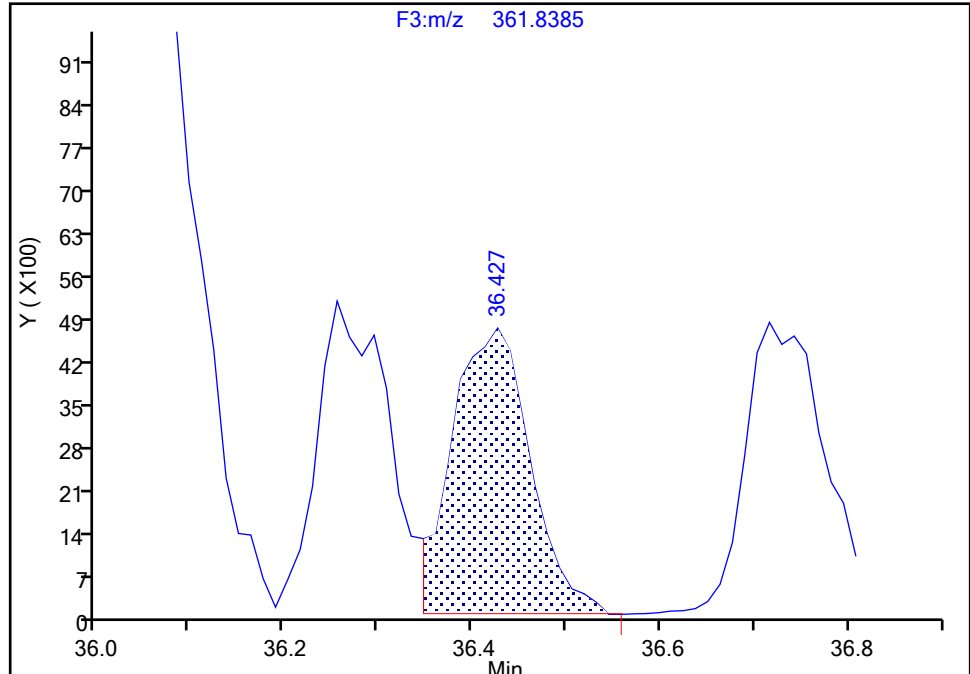
Detector F3(35.64 :49.10 )

**PCB-142, CAS: 41411-61-4**

Signal: 2

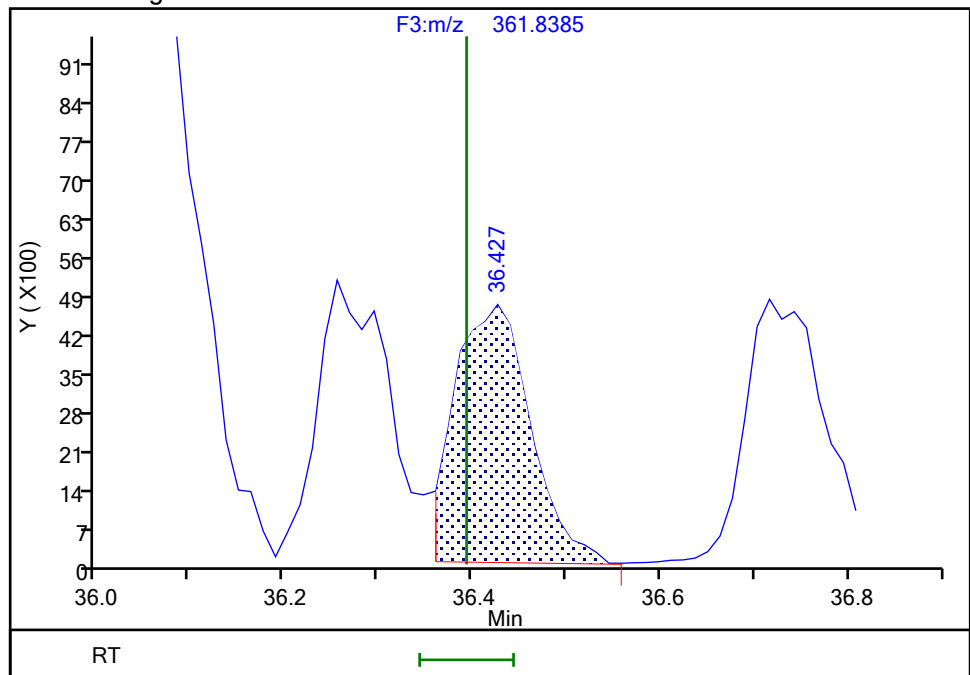
RT: 36.43  
Area: 27005  
Amount: 0.967785  
Amount Units: pg/ul

## Processing Integration Results



RT: 36.43  
Area: 25865  
Amount: 0.956909  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:35:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

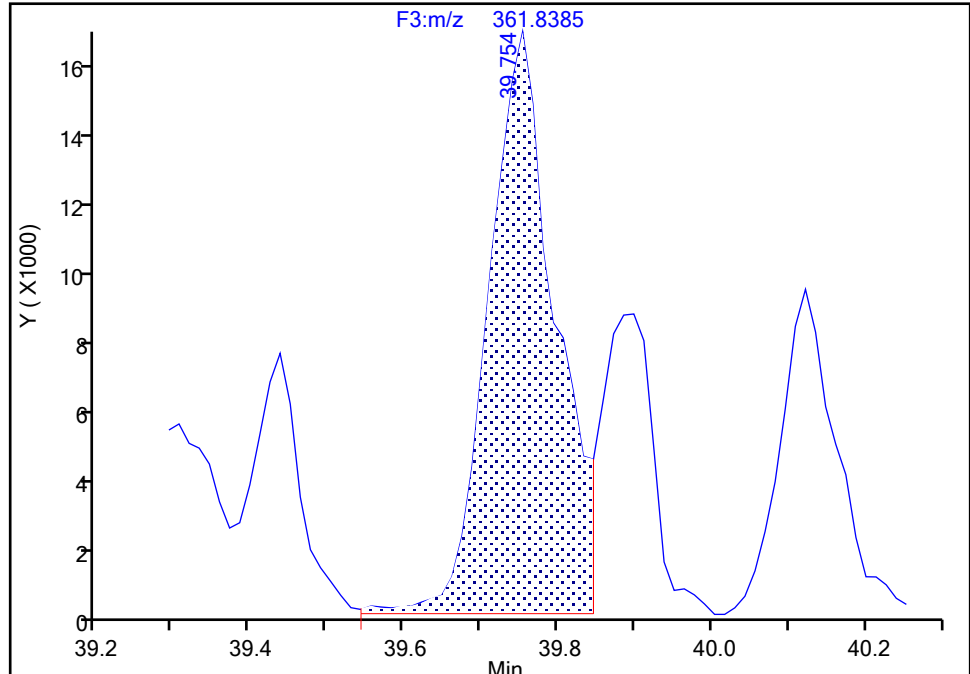
F3(35.64 :49.10 )

**PCB-129/138/160/163, CAS: STL02296**

Signal: 2

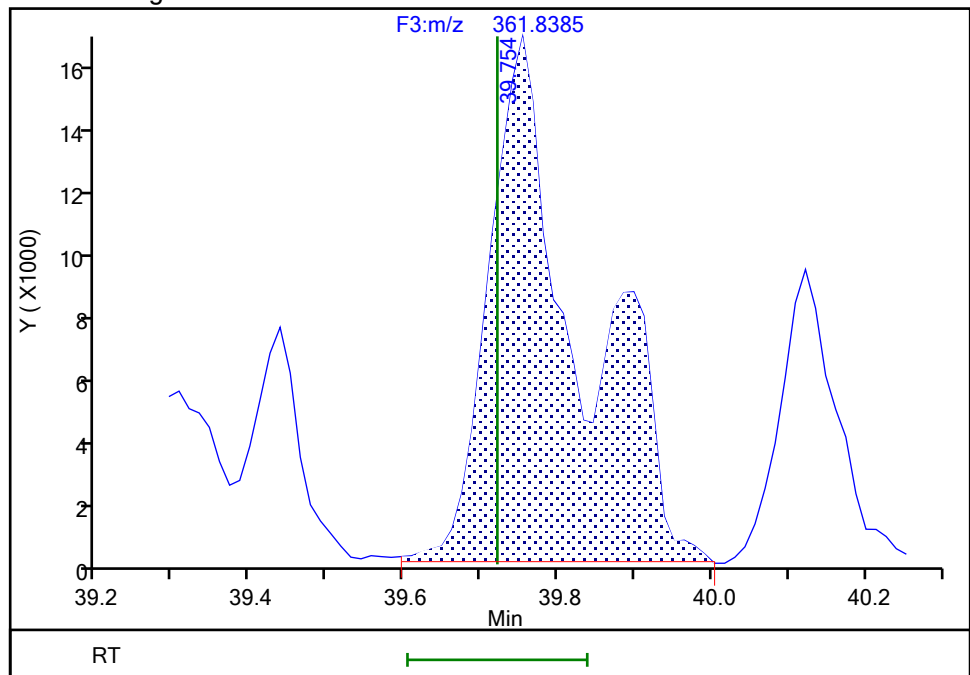
RT: 39.75  
Area: 101326  
Amount: 3.651293  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.75  
Area: 139822  
Amount: 3.921772  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

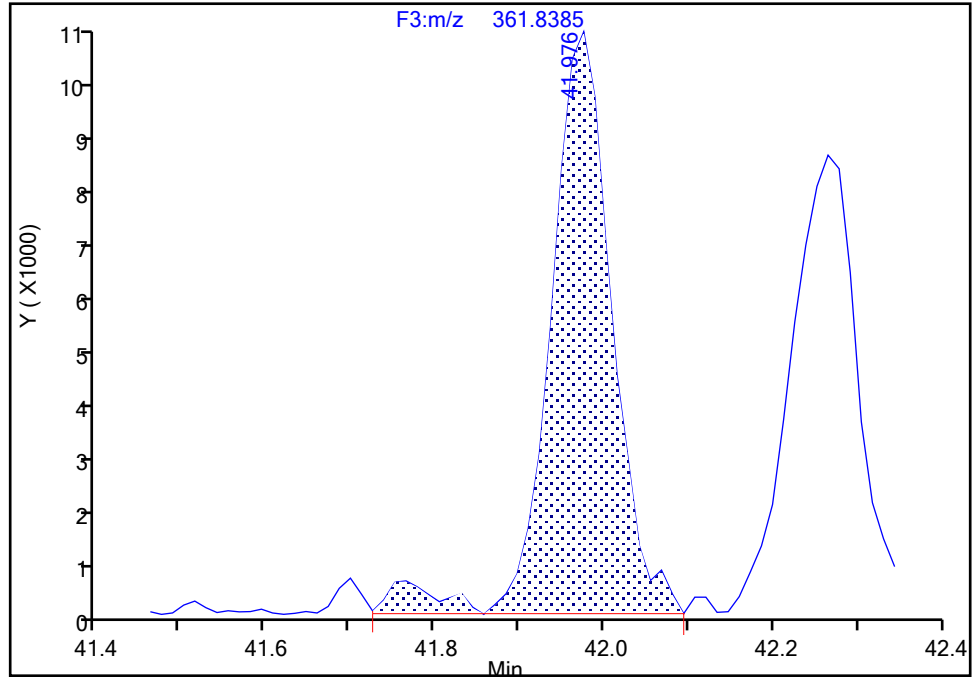
Detector F3(35.64 :49.10 )

**PCB-159, CAS: 39635-35-3**

Signal: 2

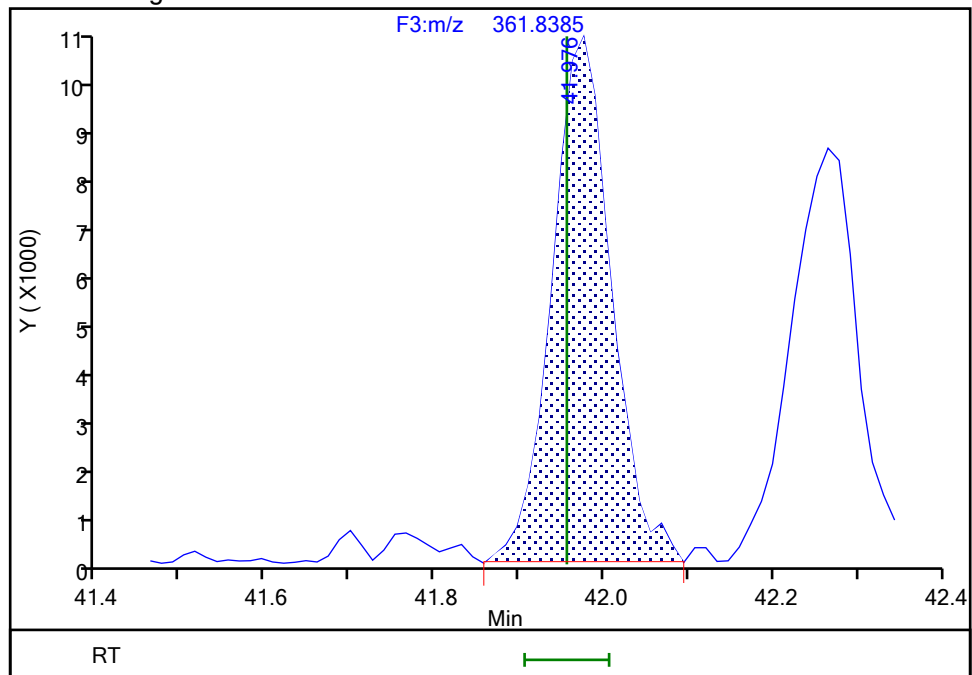
RT: 41.98  
Area: 53701  
Amount: 1.044933  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.98  
Area: 51172  
Amount: 1.015050  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:28 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

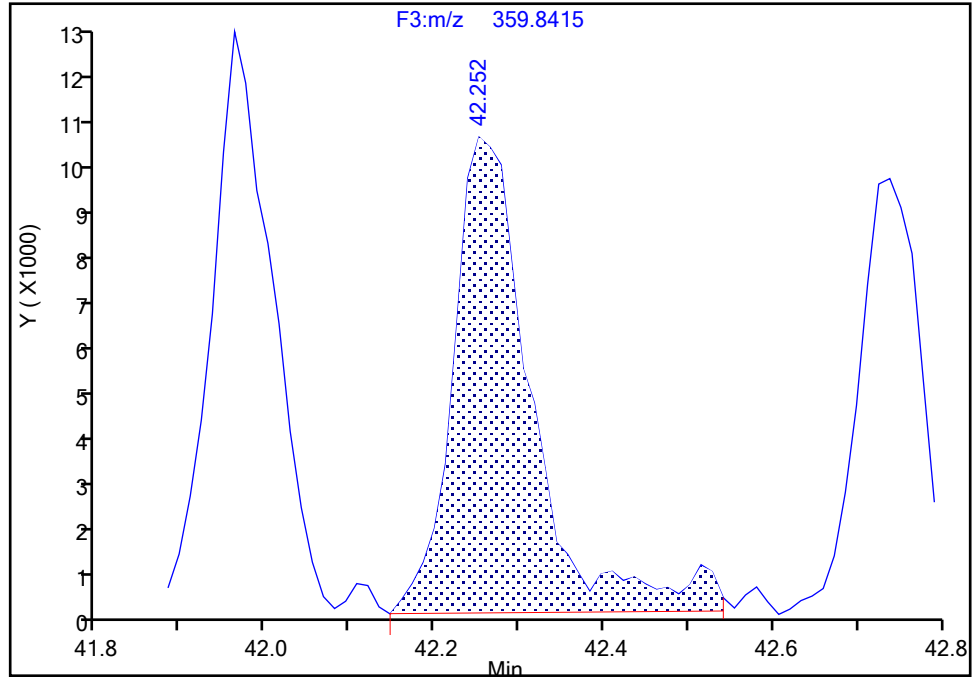
Detector F3(35.64 :49.10 )

**PCB-162, CAS: 39635-34-2**

Signal: 1

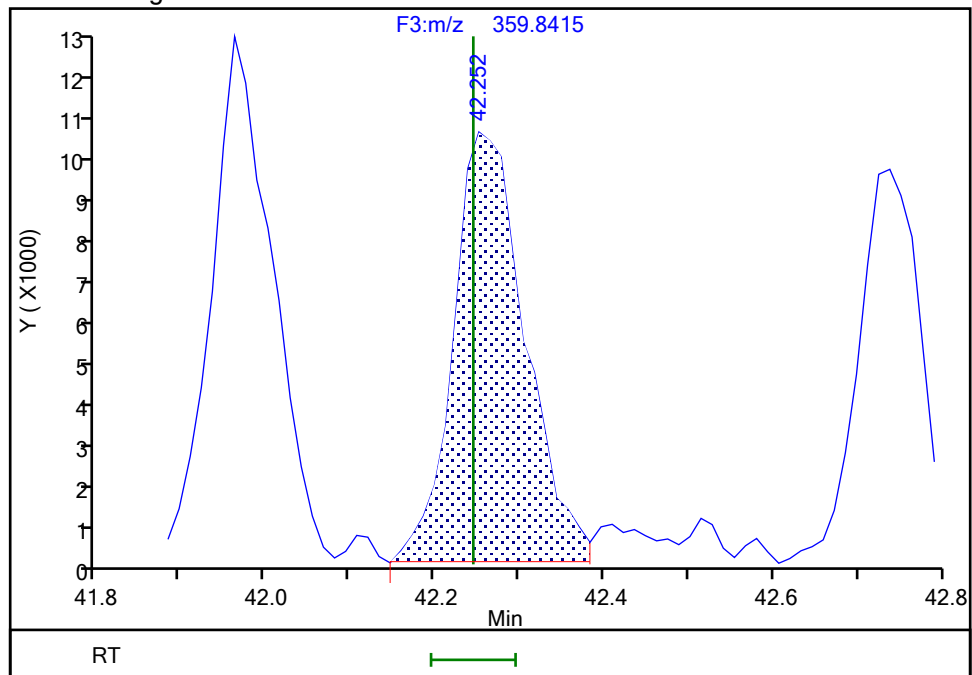
RT: 42.25  
Area: 65718  
Amount: 1.114273  
Amount Units: pg/ul

## Processing Integration Results



RT: 42.25  
Area: 59673  
Amount: 1.039801  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:39:43 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d		
Injection Date:	31-May-2024 16:53:00	Instrument ID:	D2D
Lims ID:	IC L2		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

```
ALS Bottle#:      0          Worklist Smp#:      2
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F3(35.64 :49.10 )
```

Signal: 2

RT: 42.26  
Area: 48379  
Amount: 1.114273  
Amount Units: pg/ul

Chromatogram showing detector response (Y, X1000) versus time (Min). The x-axis ranges from 41.8 to 42.8 minutes. The y-axis ranges from 0 to 11. A major peak is labeled at 42.265 minutes with a response of approximately 8.5. A smaller peak is labeled at 42.515 minutes with a response of approximately 0.5. The baseline is relatively flat around 0.5. A red vertical line is drawn at 42.515 minutes.

RT: 42.26  
Area: 47062  
Amount: 1.039801  
Amount Units: pg/ul

### Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

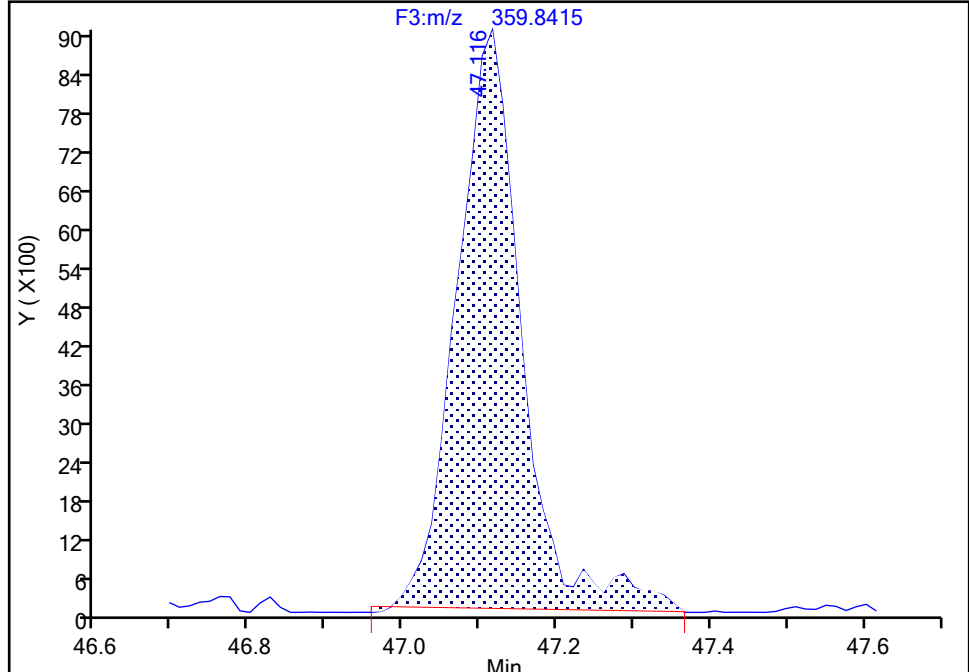
Detector F3(35.64 :49.10 )

**PCB-169, CAS: 32774-16-6**

Signal: 1

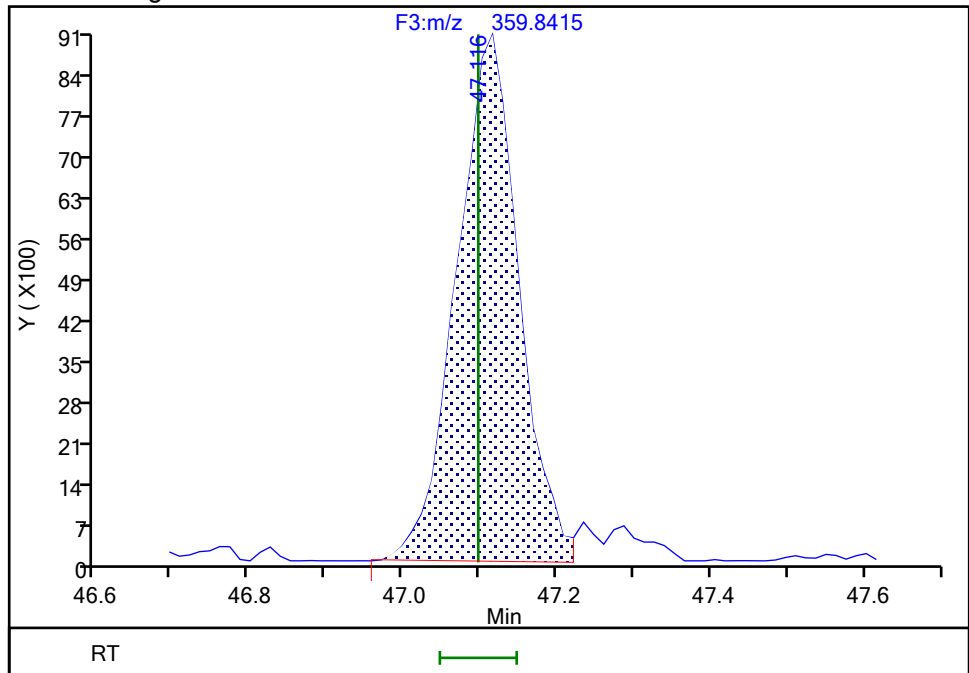
RT: 47.12  
Area: 52919  
Amount: 0.942481  
Amount Units: pg/ul

## Processing Integration Results



RT: 47.12  
Area: 50749  
Amount: 0.953752  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:40:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

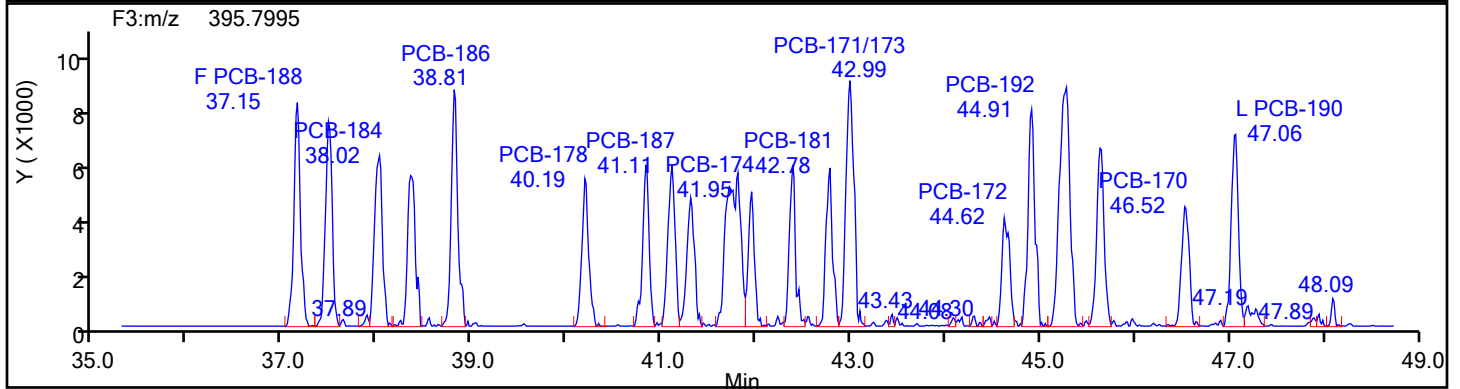
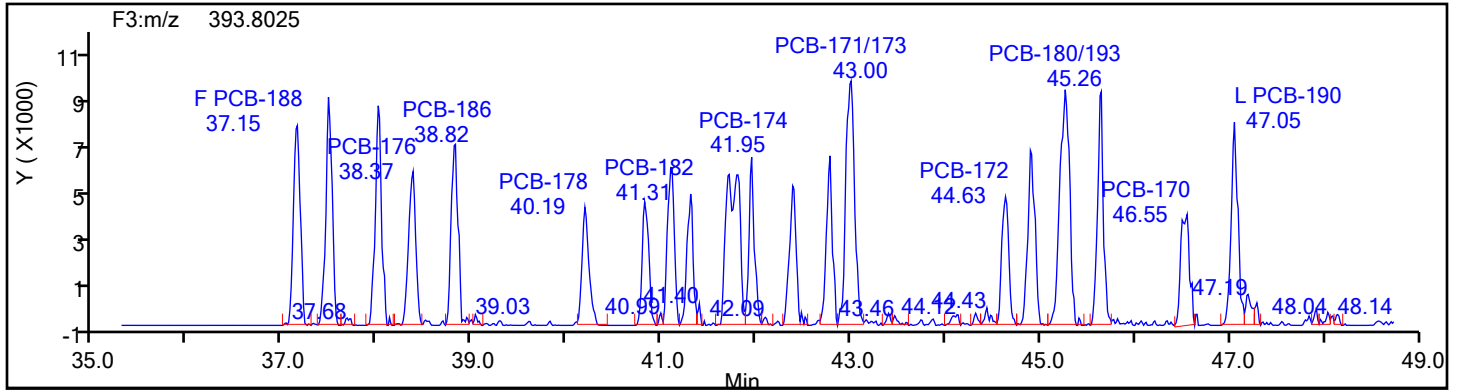
Worklist#: 87130

Sample Line#: 2

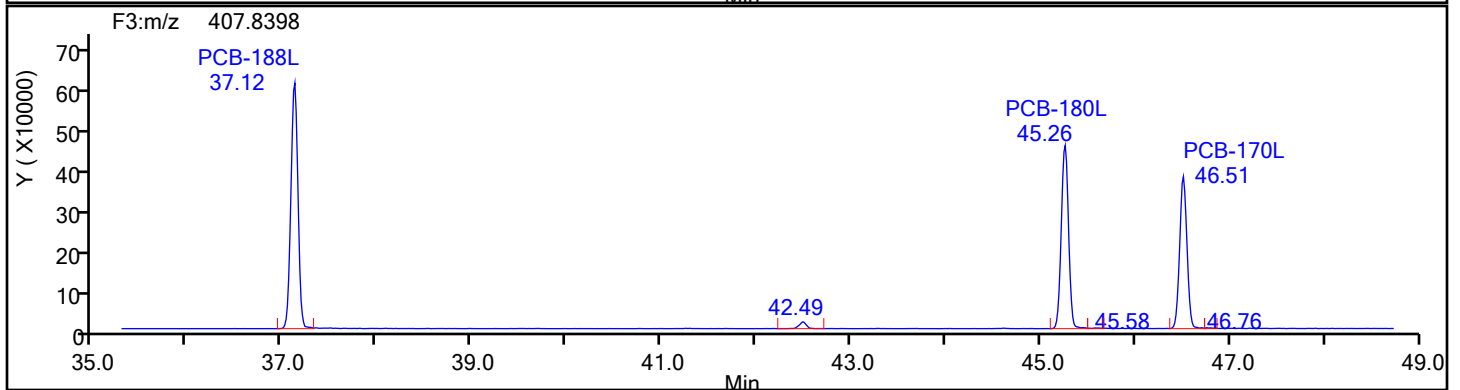
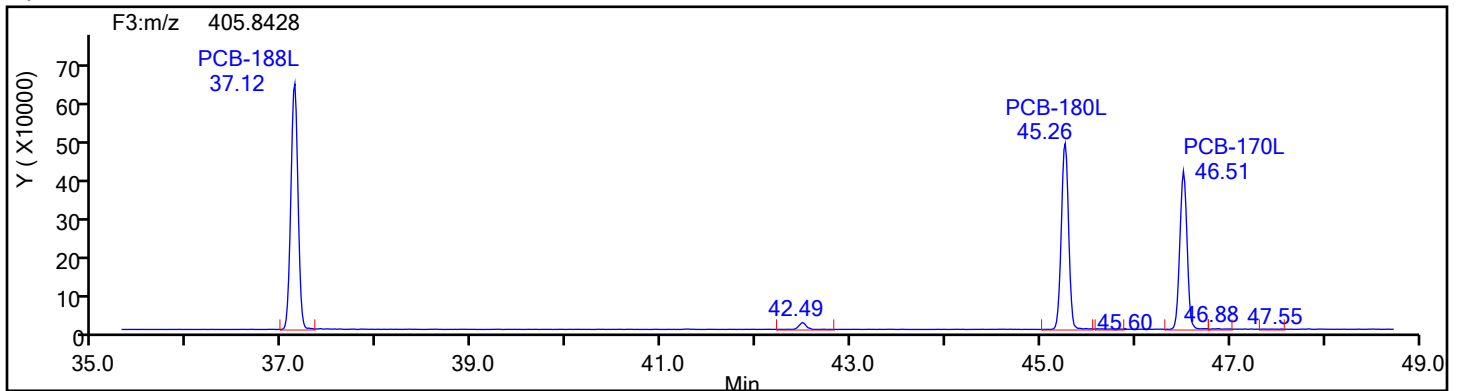
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

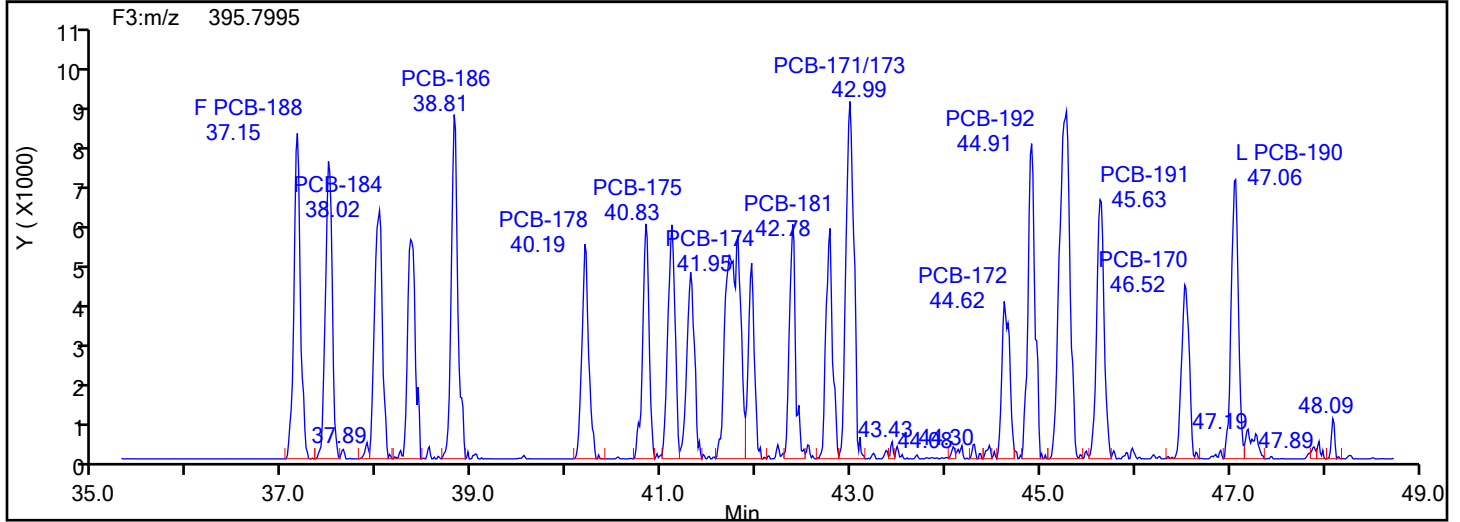
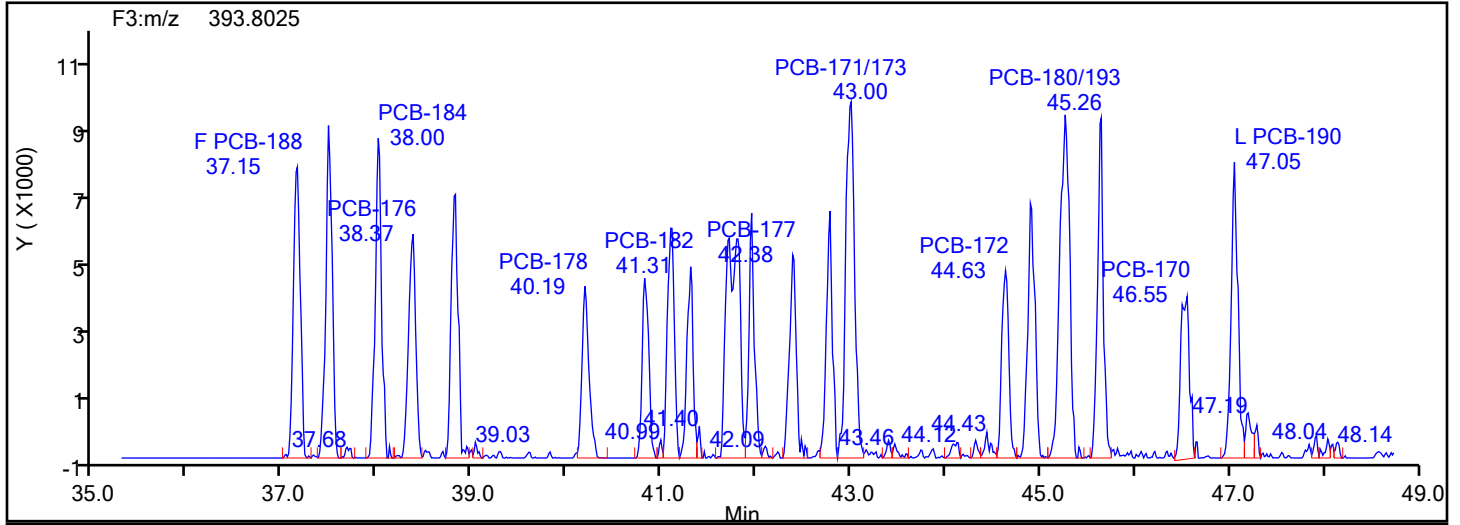
Worklist#: 87130

Sample Line#: 2

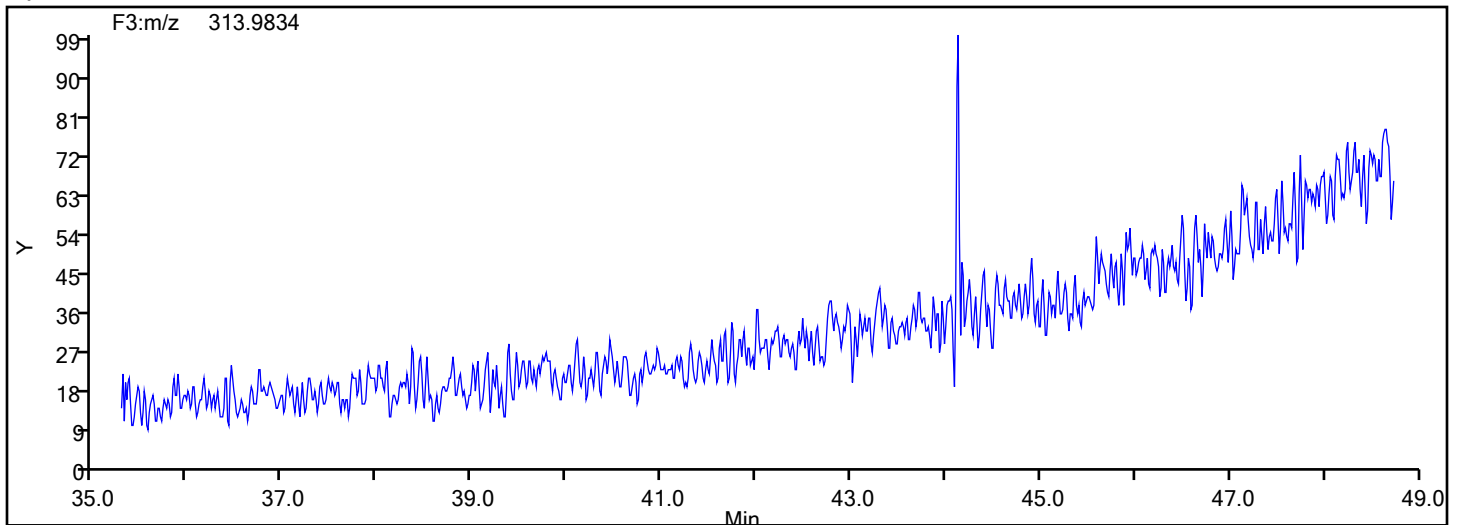
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d		
Injection Date:	31-May-2024 16:53:00	Instrument ID:	D2D
Lims ID:	IC L2		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

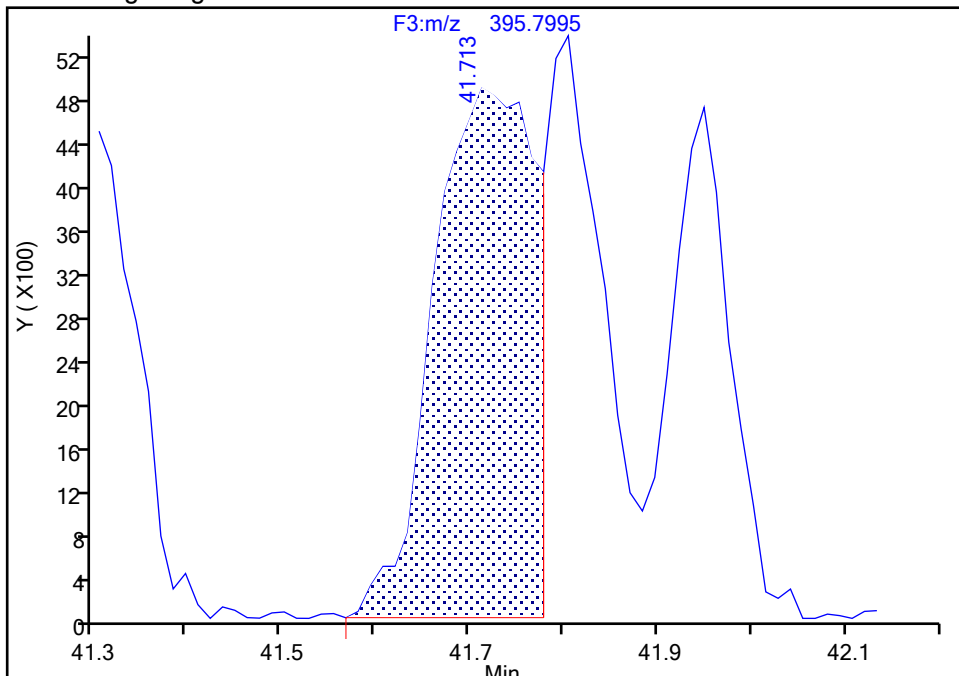
ALS Bottle#: 0 Worklist Smp#: 2  
Dil. Factor: 1.0000  
Limit Group: HR - EPA\_23 PCB ICAL  
Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 2

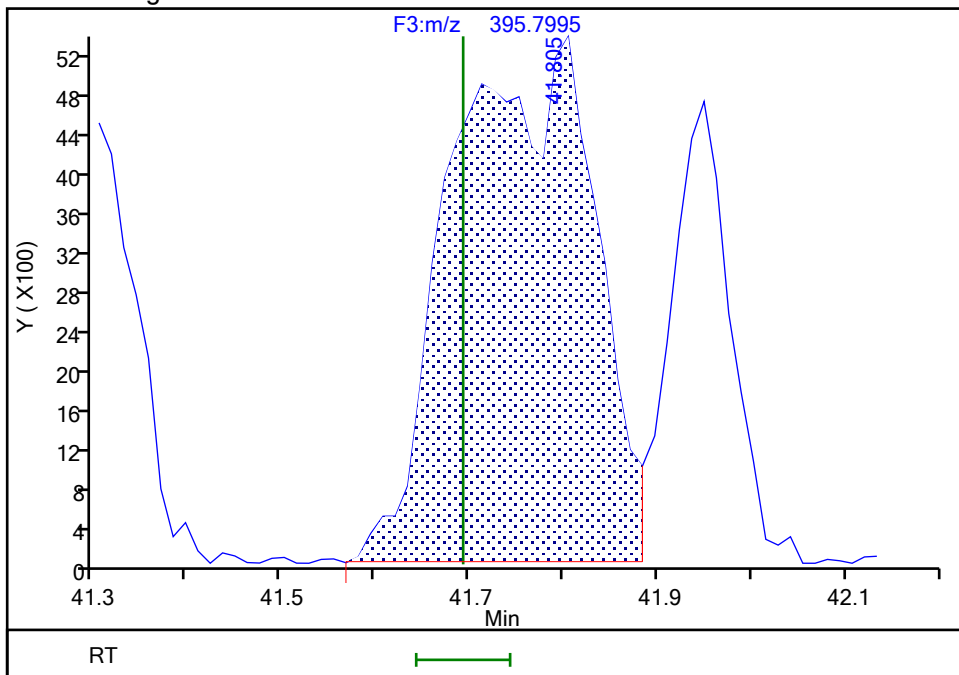
RT: 41.71  
Area: 35572  
Amount: 1.894030  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.81  
Area: 56781  
Amount: 2.172586  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

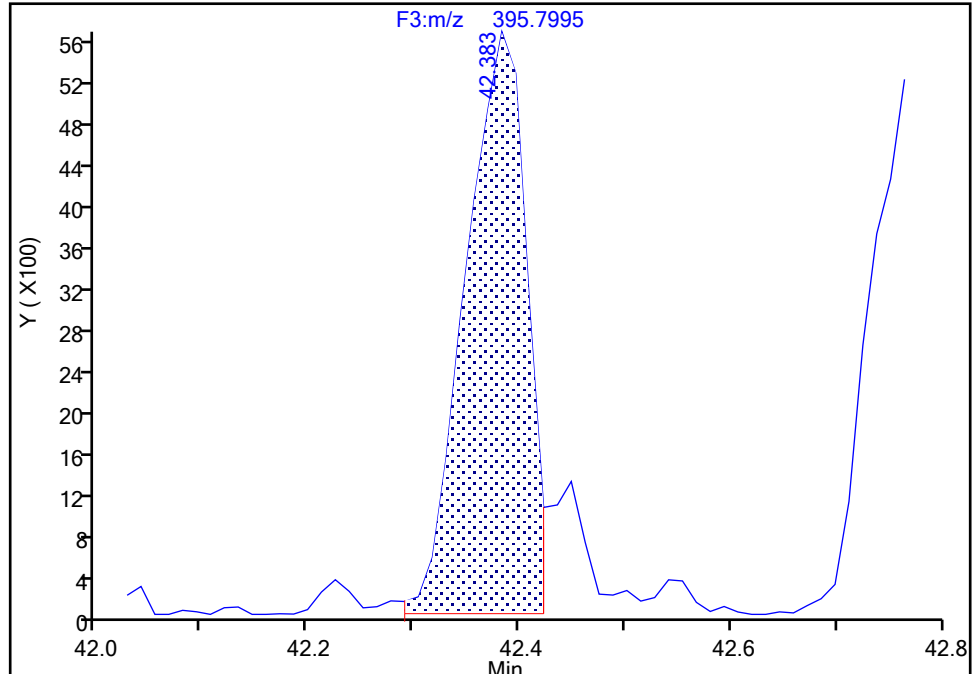
Detector F3(35.64 :49.10 )

**PCB-177, CAS: 52663-70-4**

Signal: 2

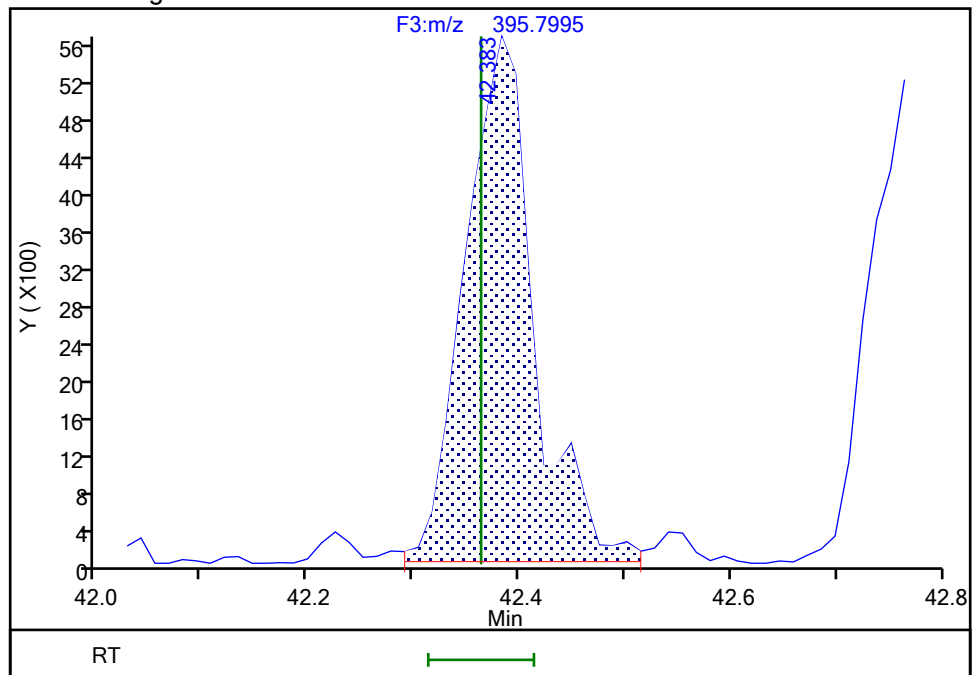
RT: 42.38  
Area: 22341  
Amount: 0.948456  
Amount Units: pg/ul

## Processing Integration Results



RT: 42.38  
Area: 25600  
Amount: 1.006154  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:41:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

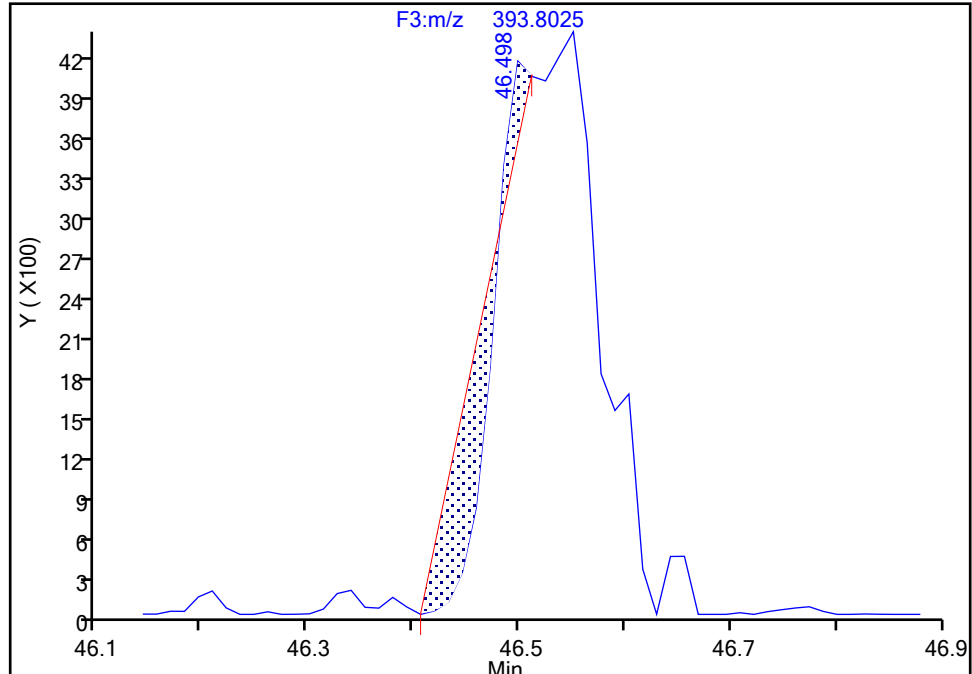
Detector F3(35.64 :49.10 )

PCB-170, CAS: 35065-30-6

Signal: 1

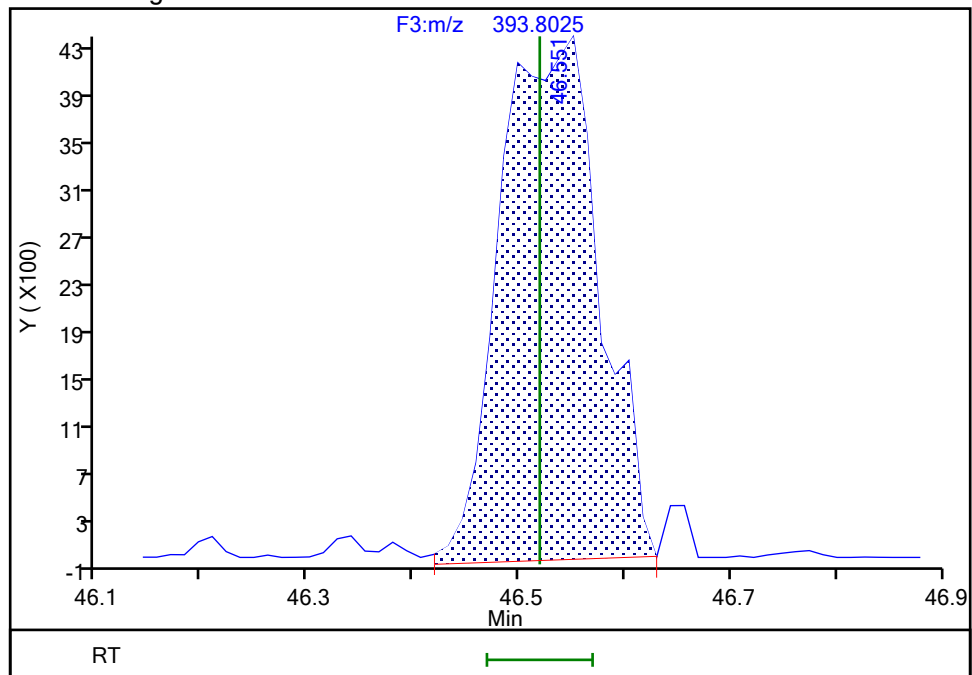
RT: 46.50  
Area: 2737  
Amount: 0.589206  
Amount Units: pg/ul

## Processing Integration Results



RT: 46.55  
Area: 28044  
Amount: 1.019913  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:35 -04:00:00 (UTC)

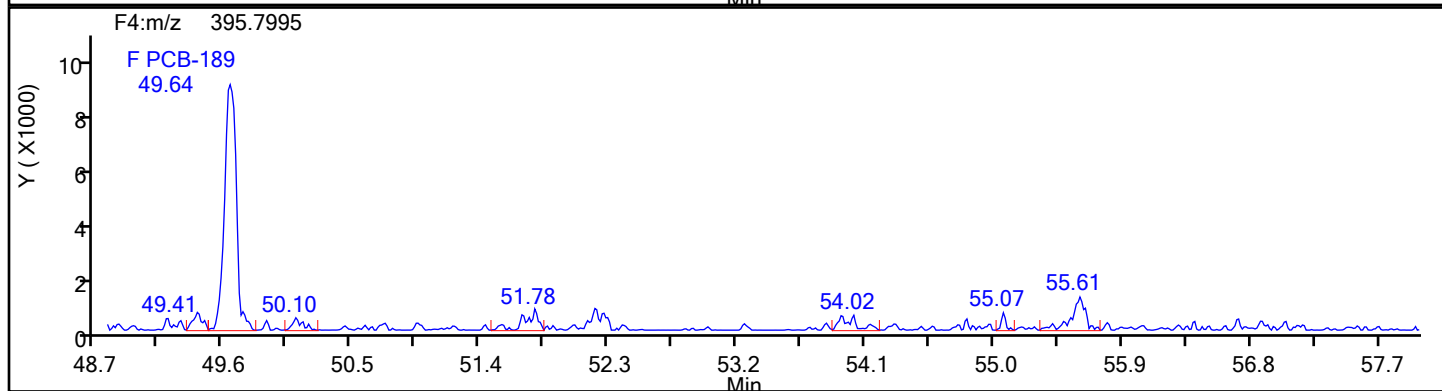
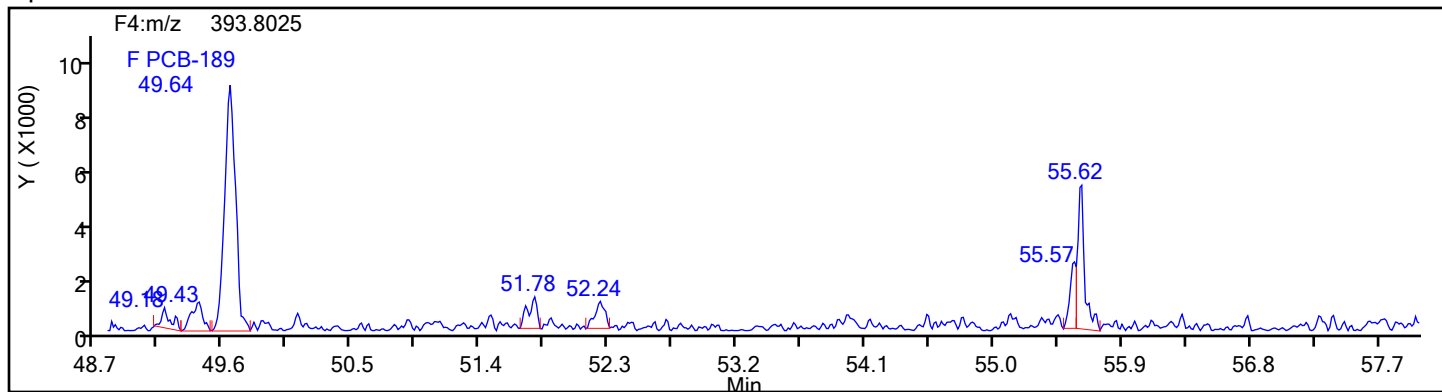
Audit Action: Manually Integrated

Audit Reason: Baseline

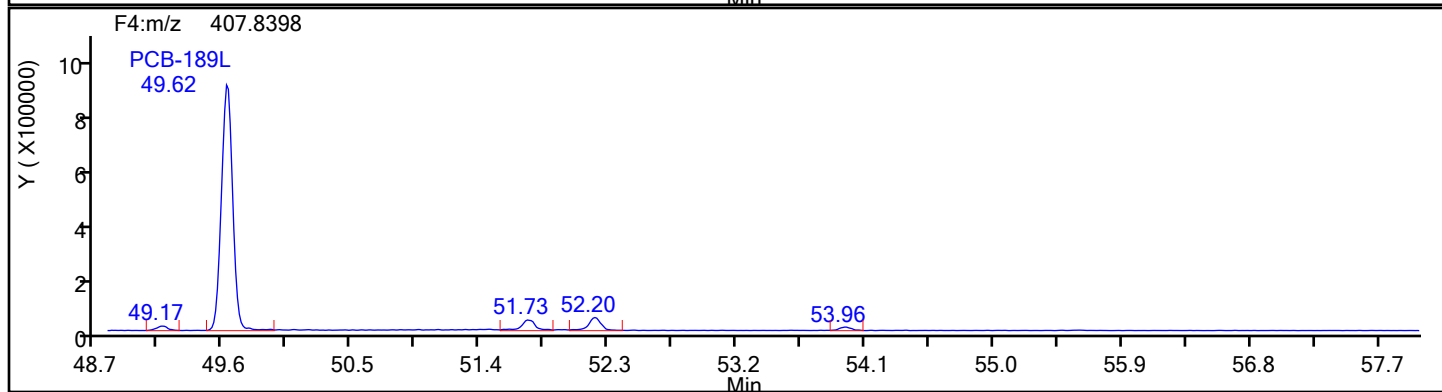
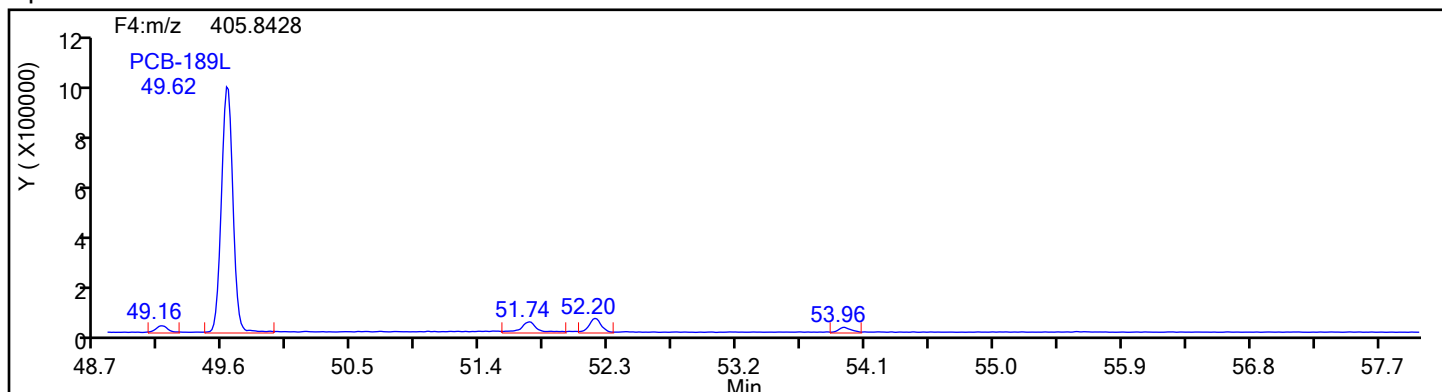


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 2  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4



## HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

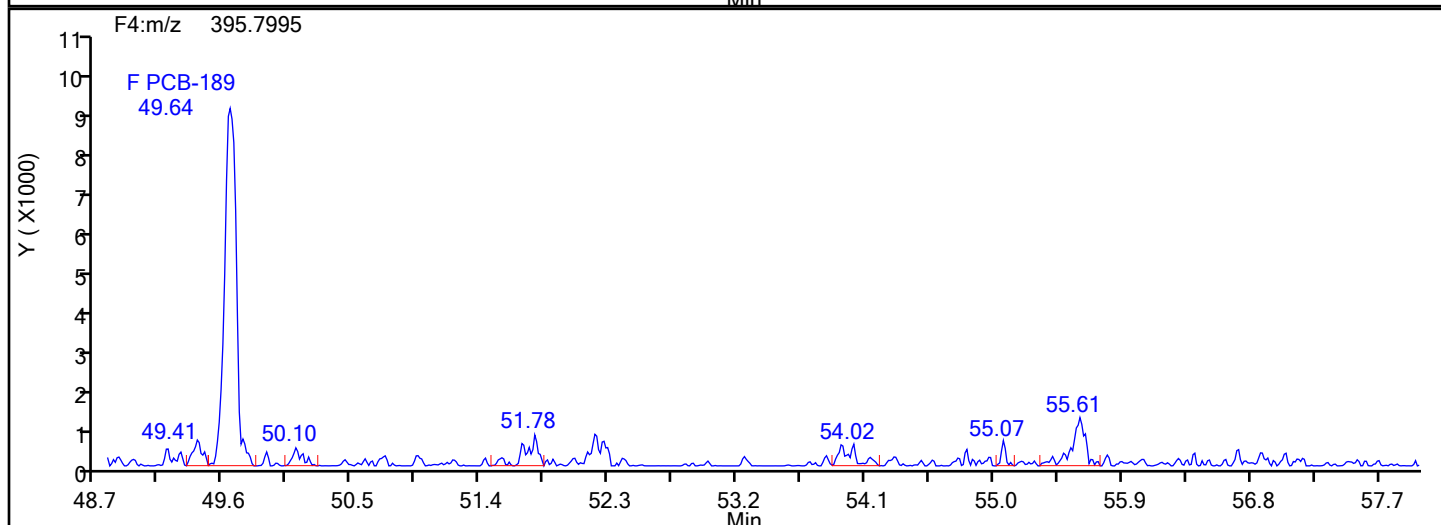
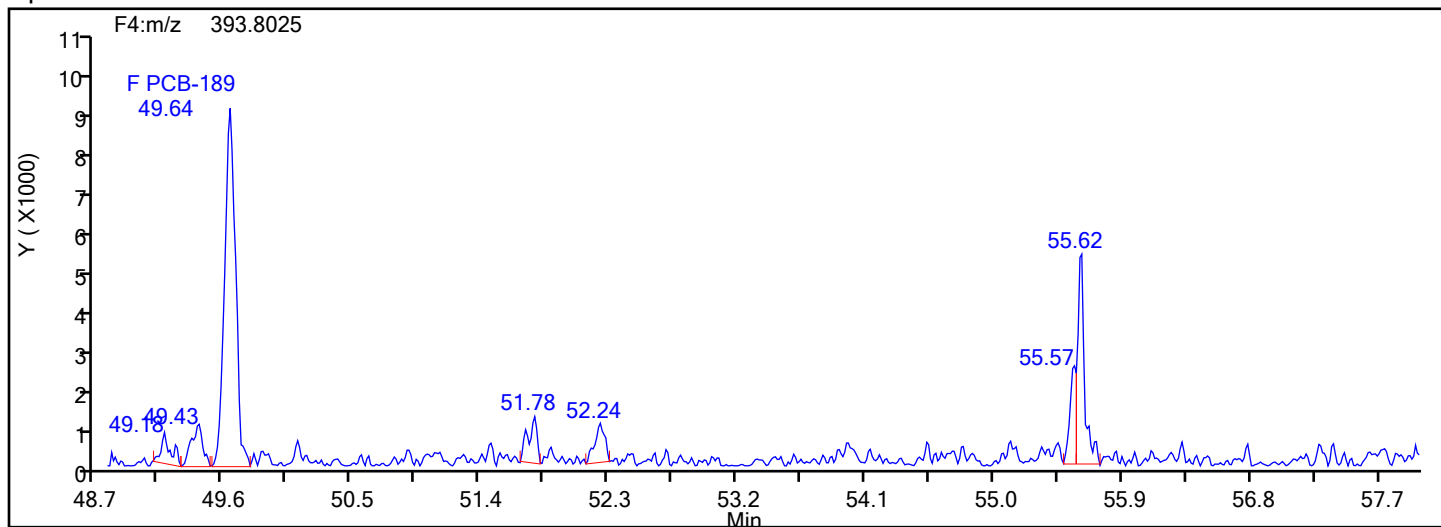
Worklist#: 87130

Sample Line#: 2

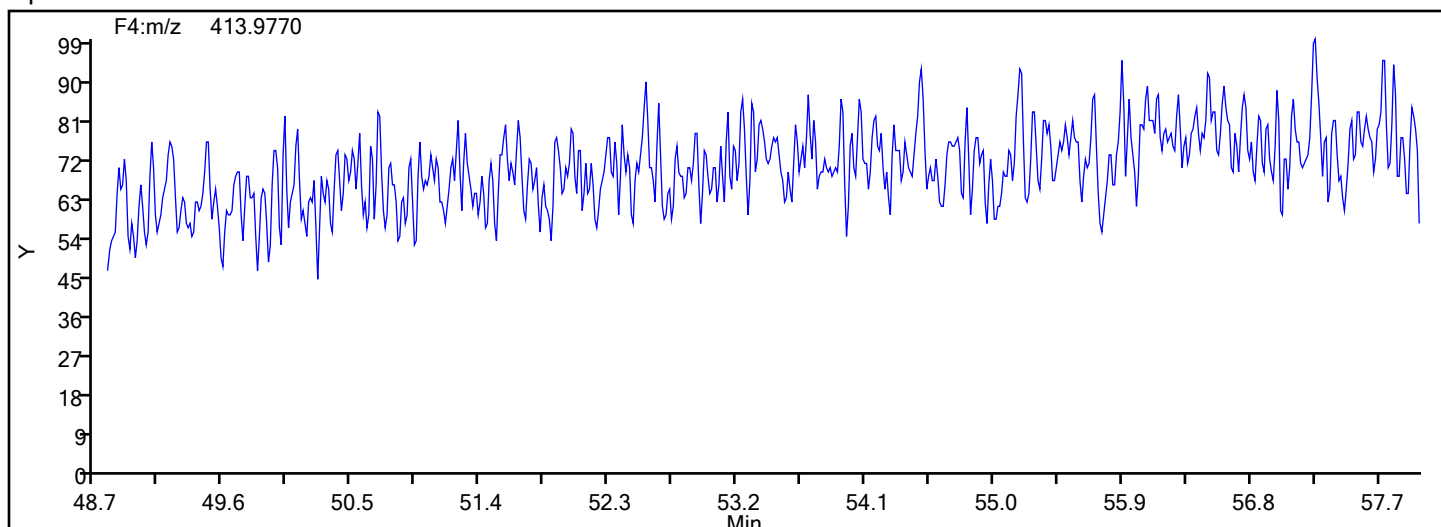
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



## HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

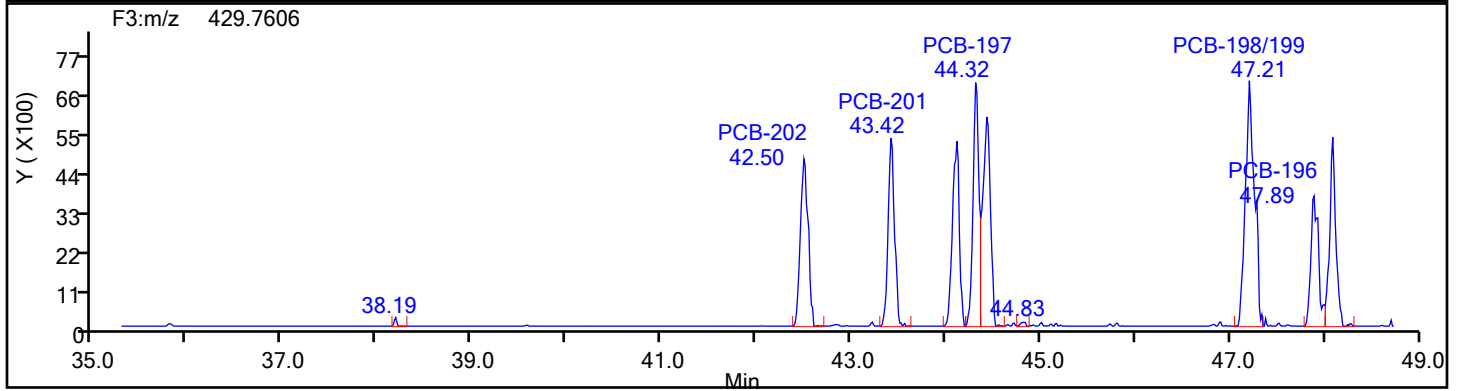
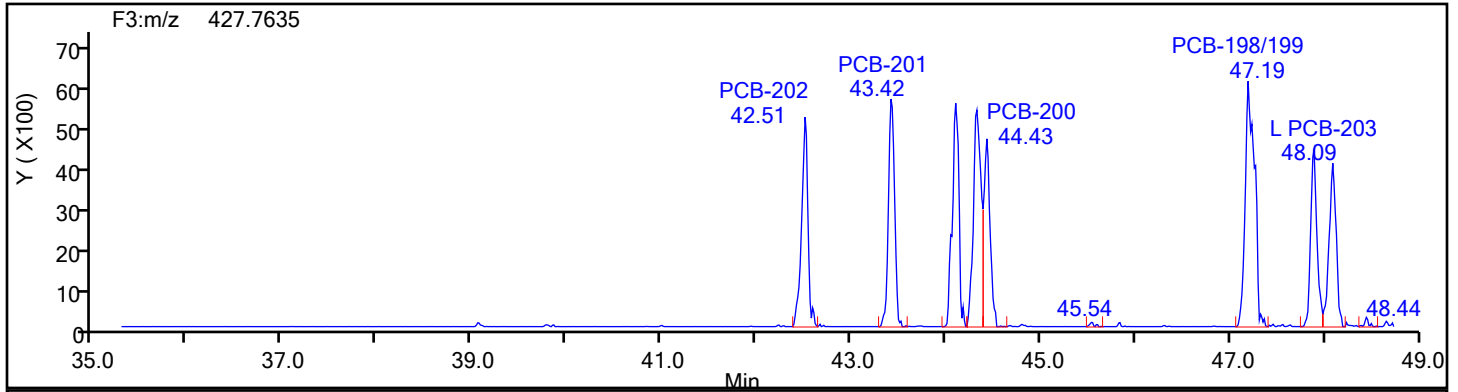
Worklist#: 87130

Sample Line#: 2

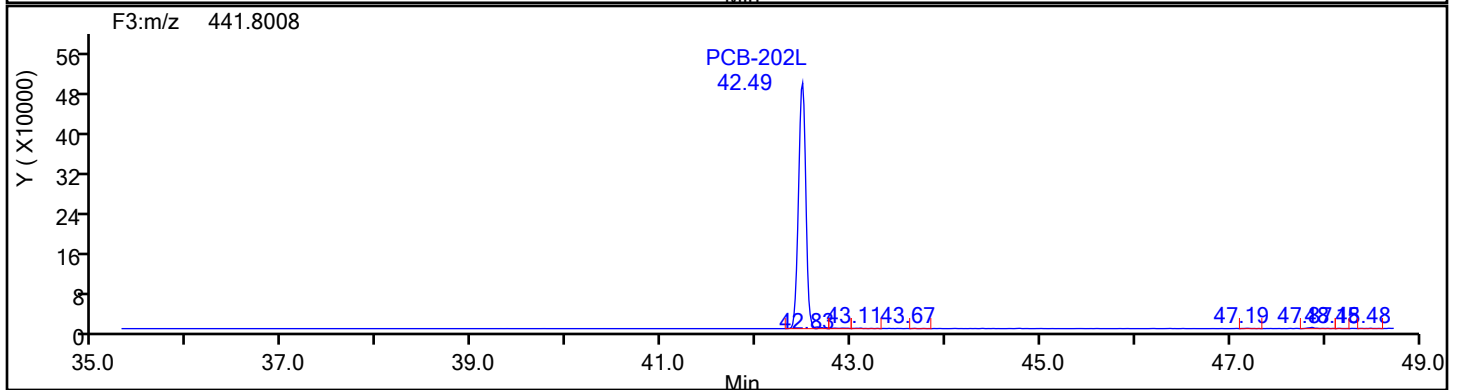
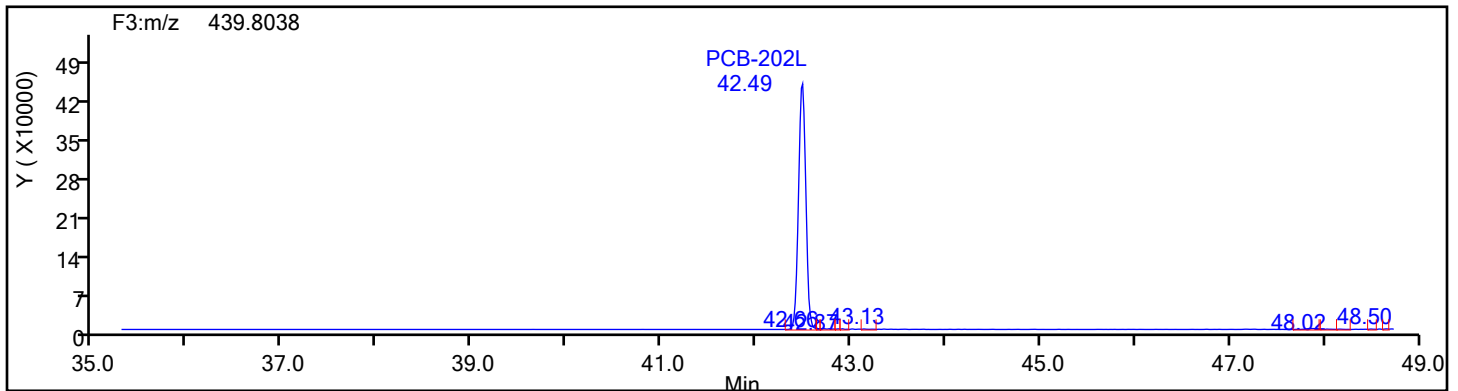
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

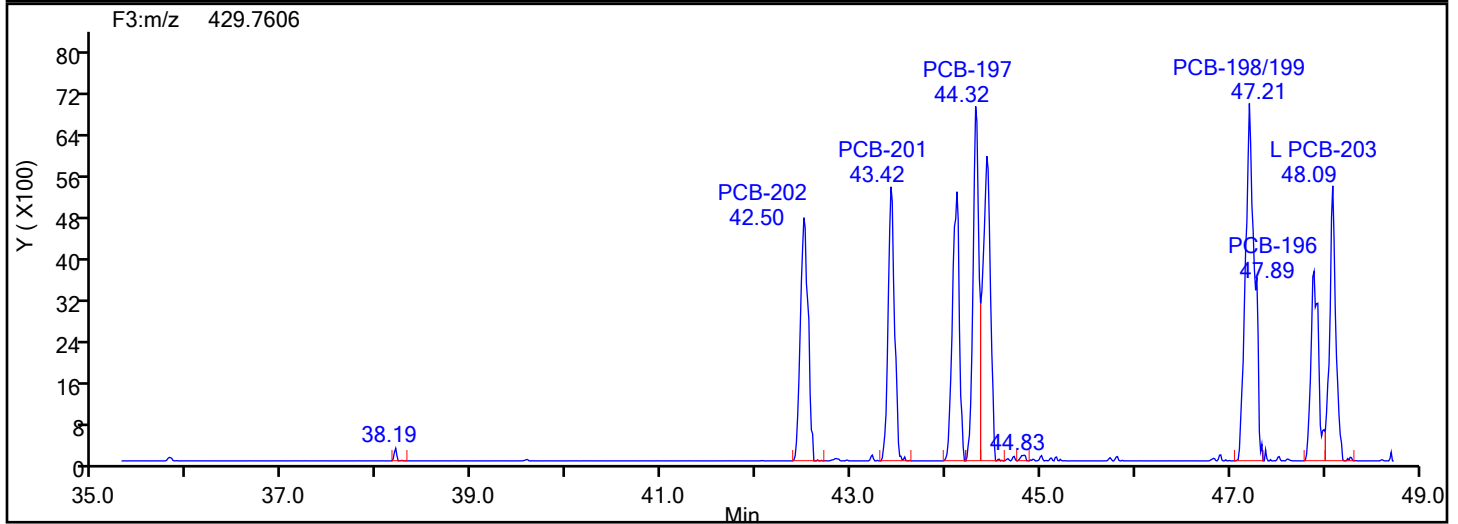
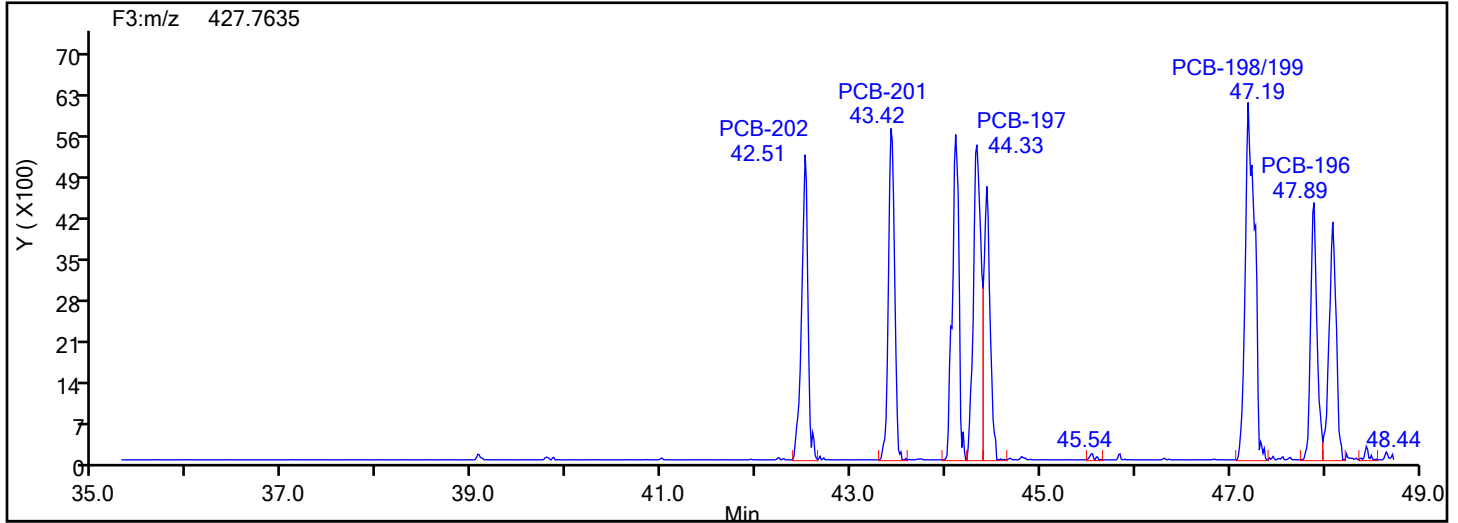
Worklist#: 87130

Sample Line#: 2

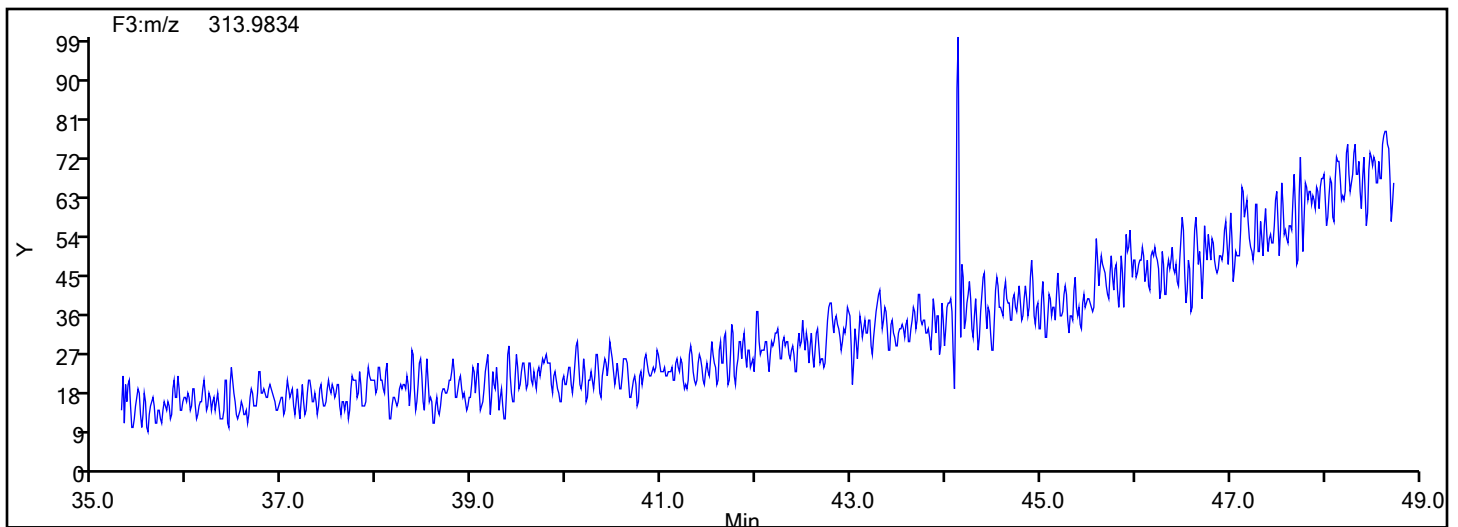
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



## OcPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

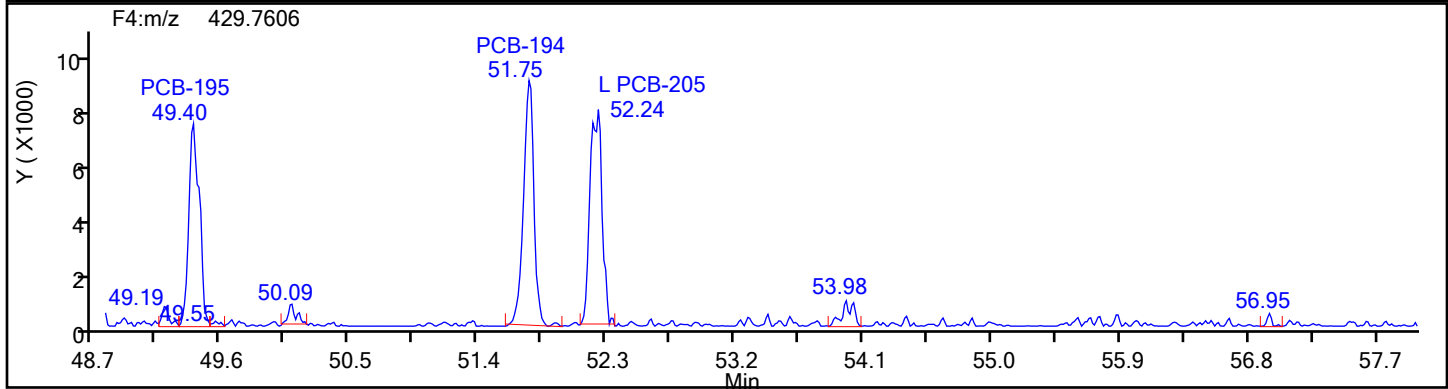
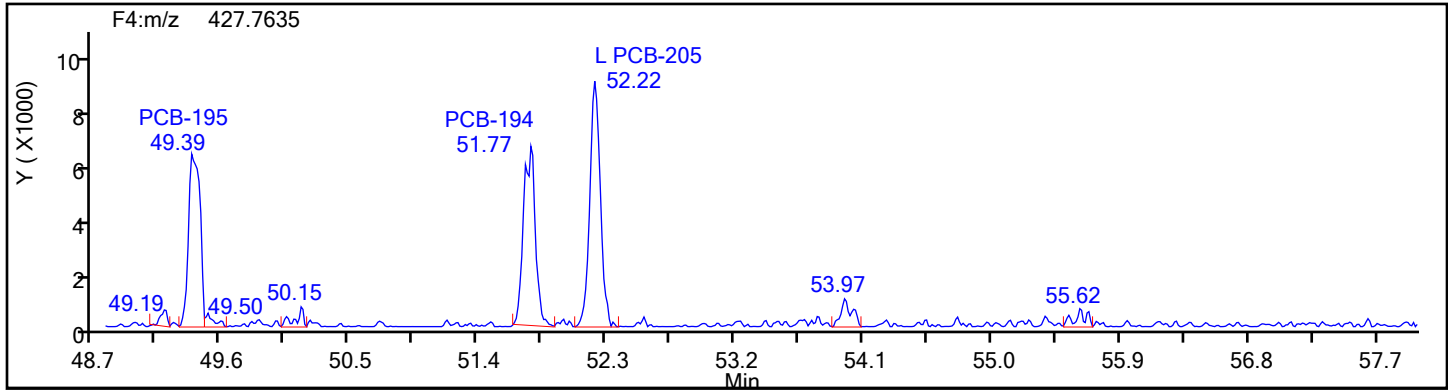
Worklist#: 87130

Sample Line#: 2

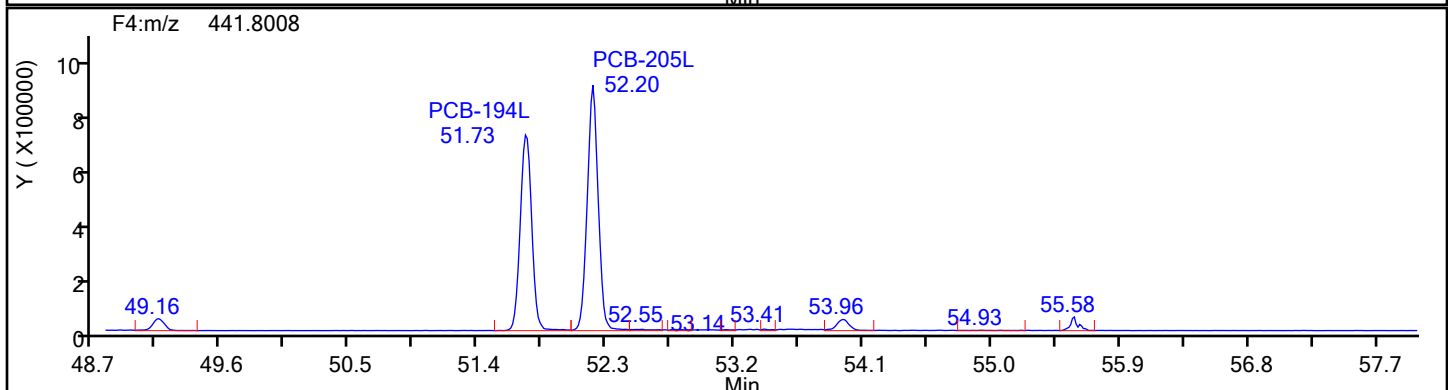
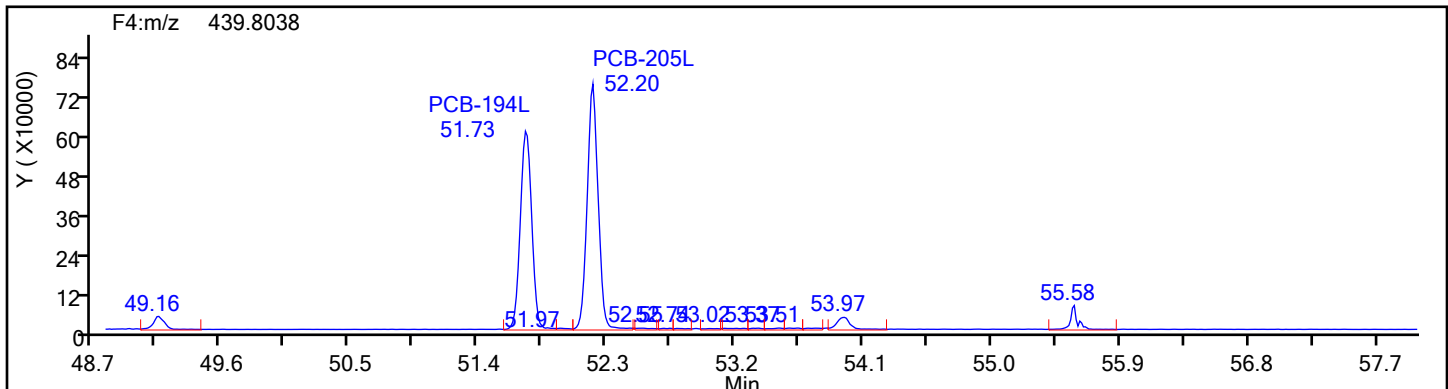
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

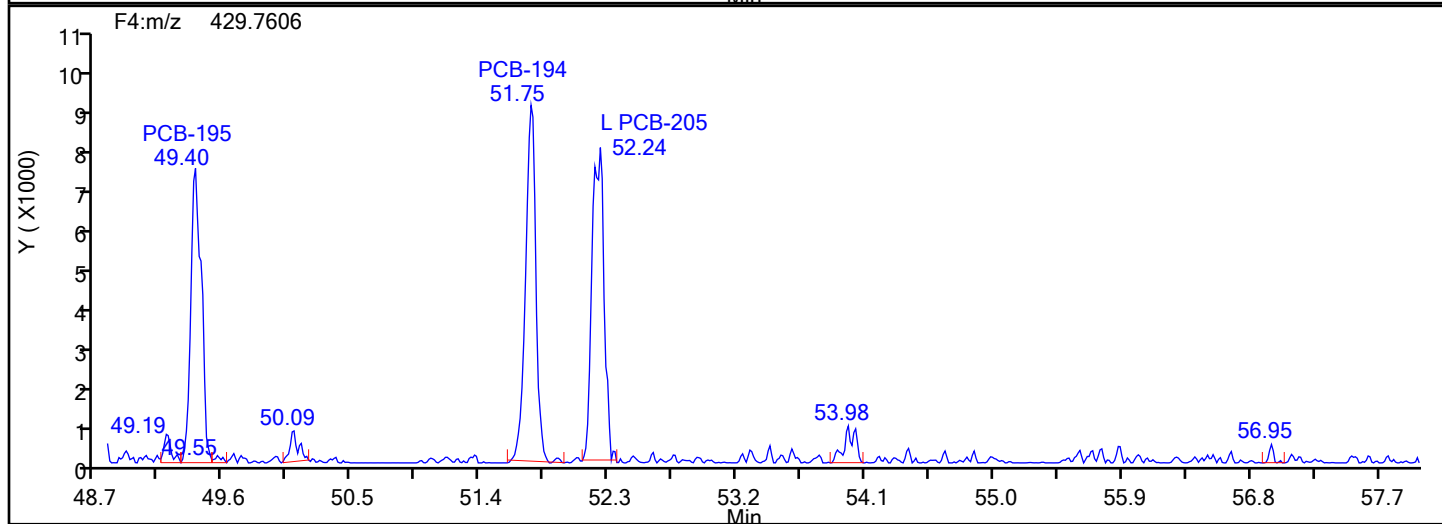
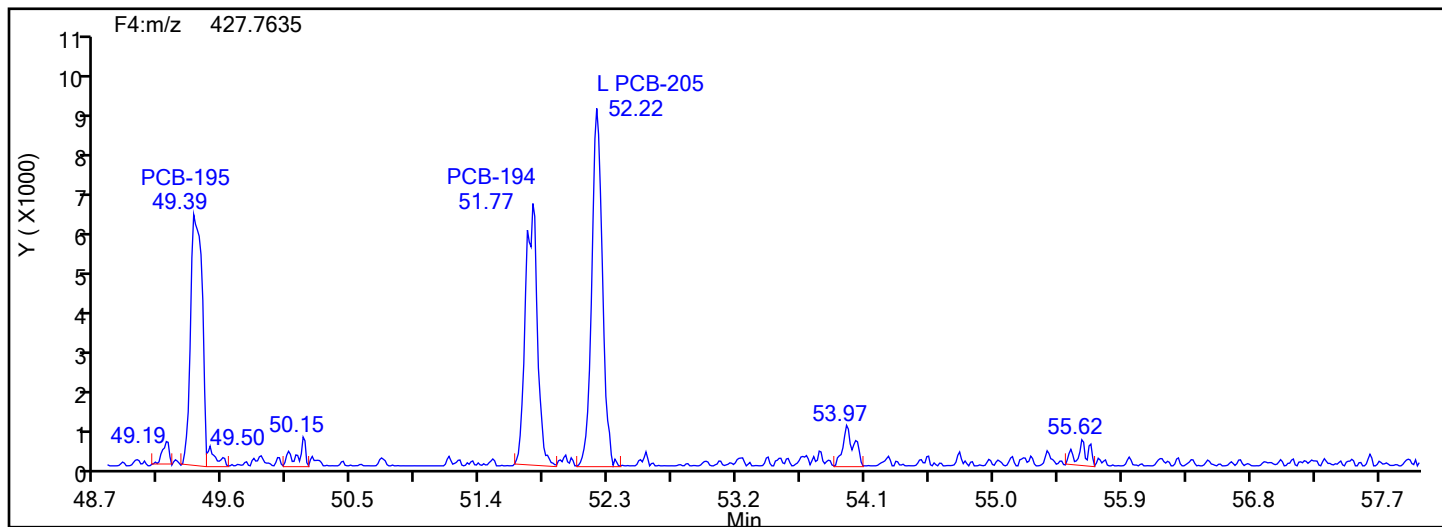
Worklist#: 87130

Sample Line#: 2

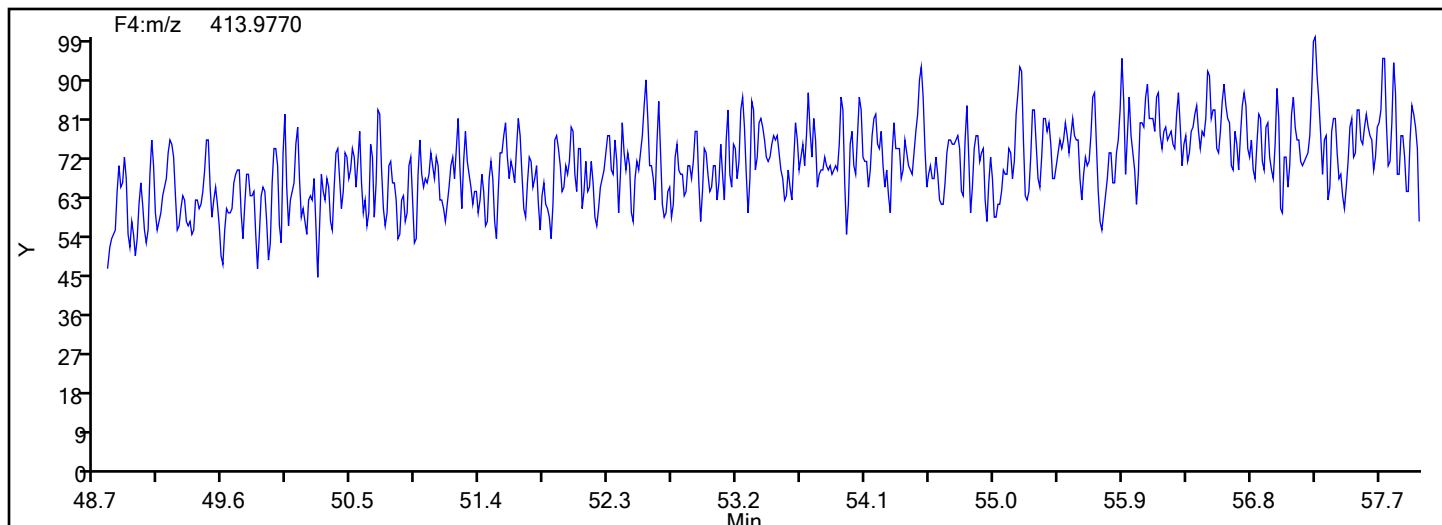
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



## OcPCB F4 Lock Mass



## Eurofins Knoxville

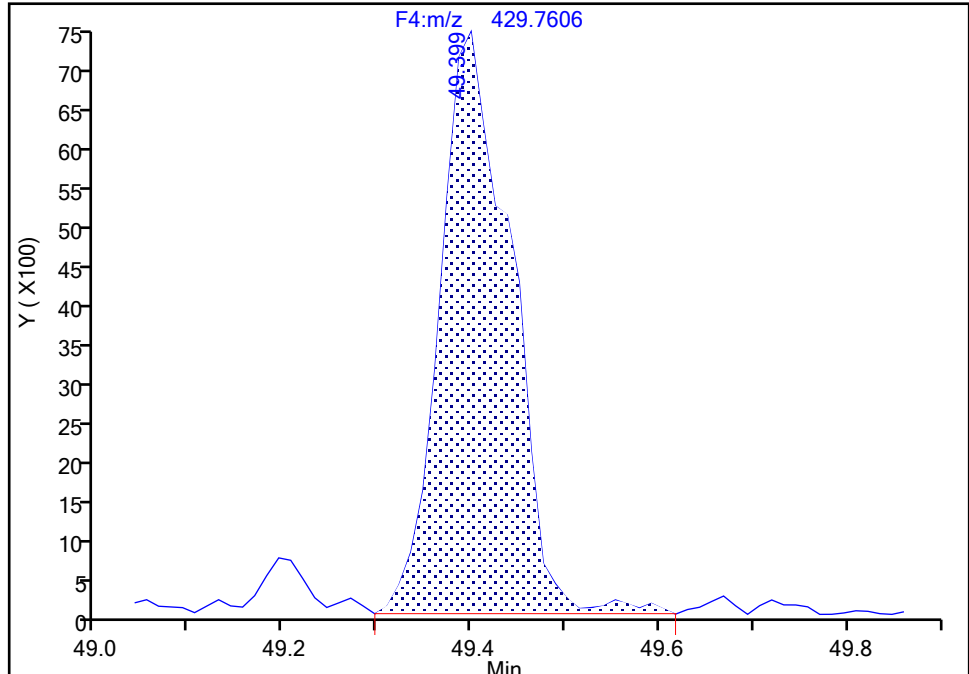
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

**PCB-195, CAS: 52663-78-2**

Signal: 2

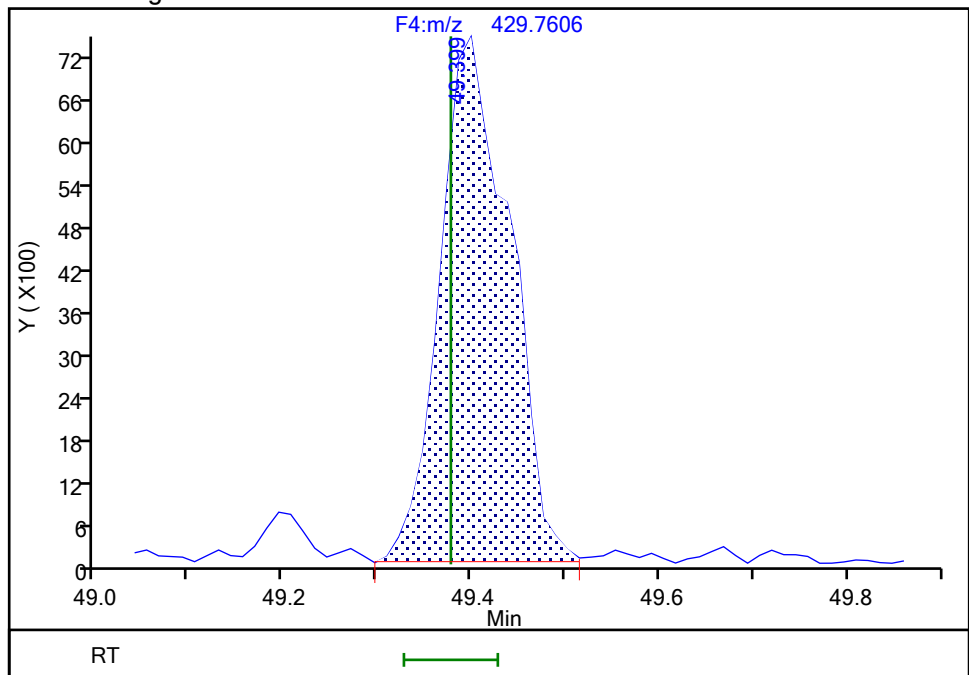
RT: 49.40  
Area: 39042  
Amount: 1.088758  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.40  
Area: 38418  
Amount: 1.064369  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:40:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

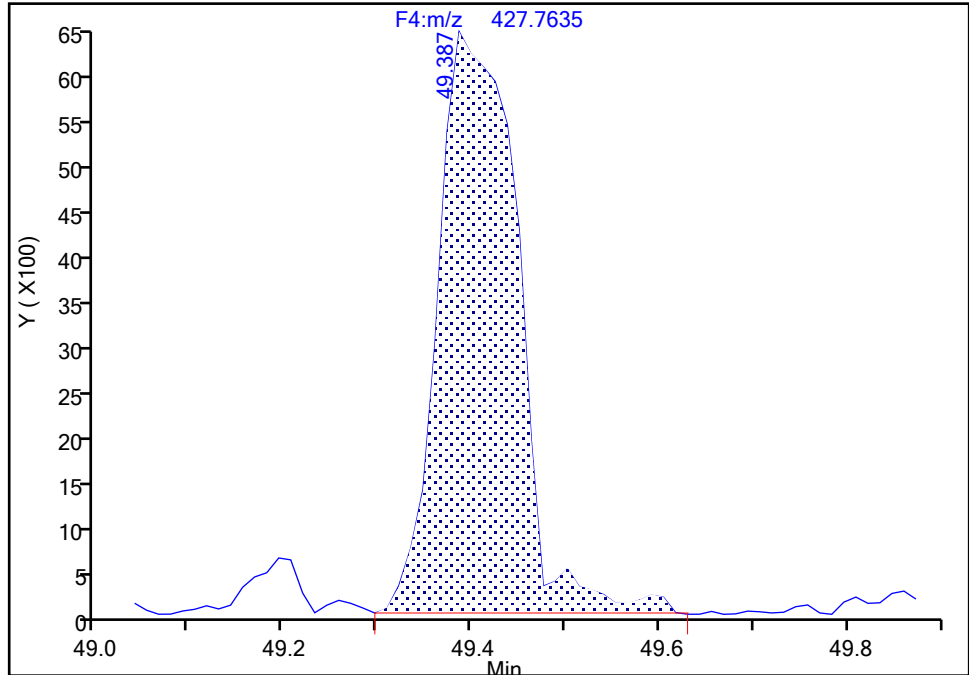
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

PCB-195, CAS: 52663-78-2

Signal: 1

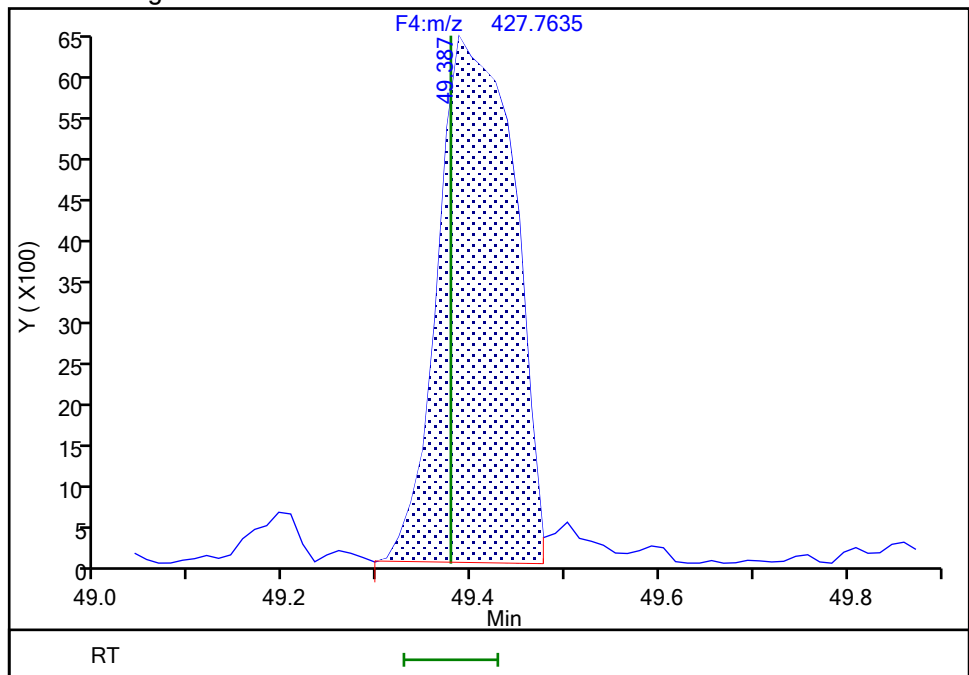
RT: 49.39  
Area: 38025  
Amount: 1.088758  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.39  
Area: 36050  
Amount: 1.064369  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:40:59 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

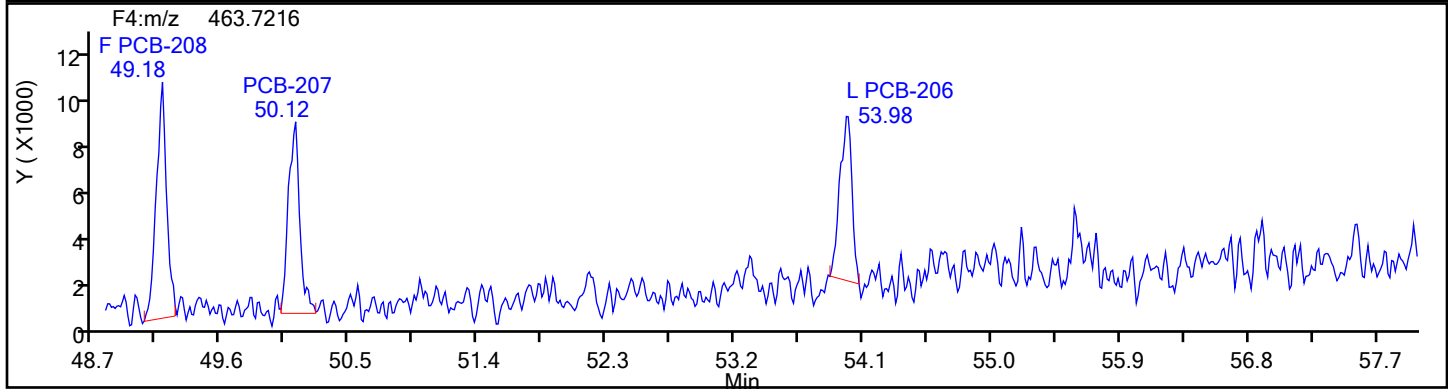
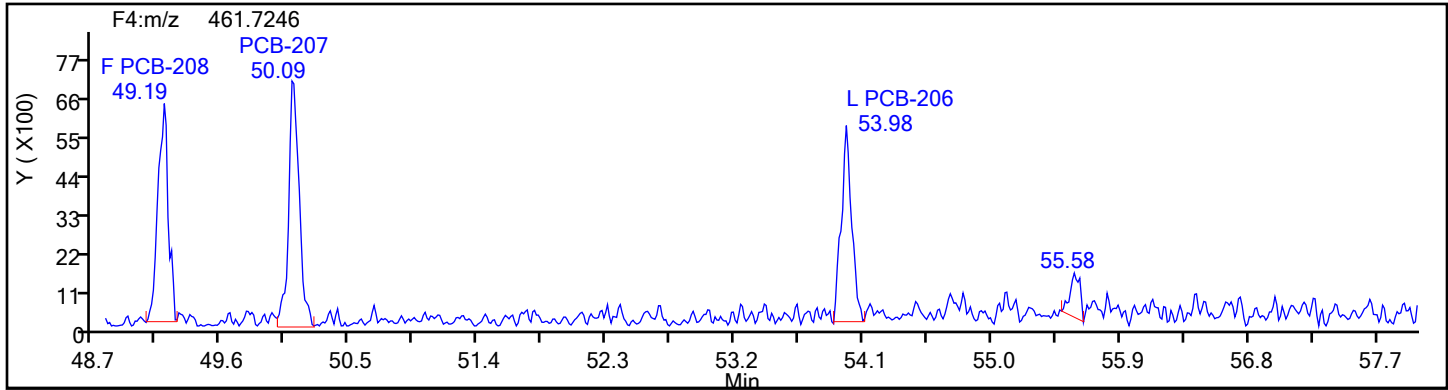
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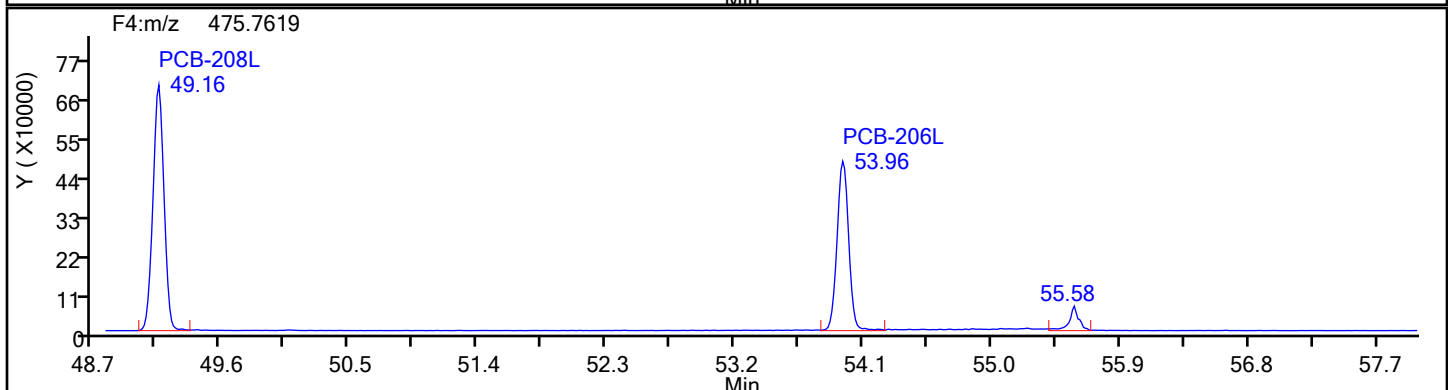
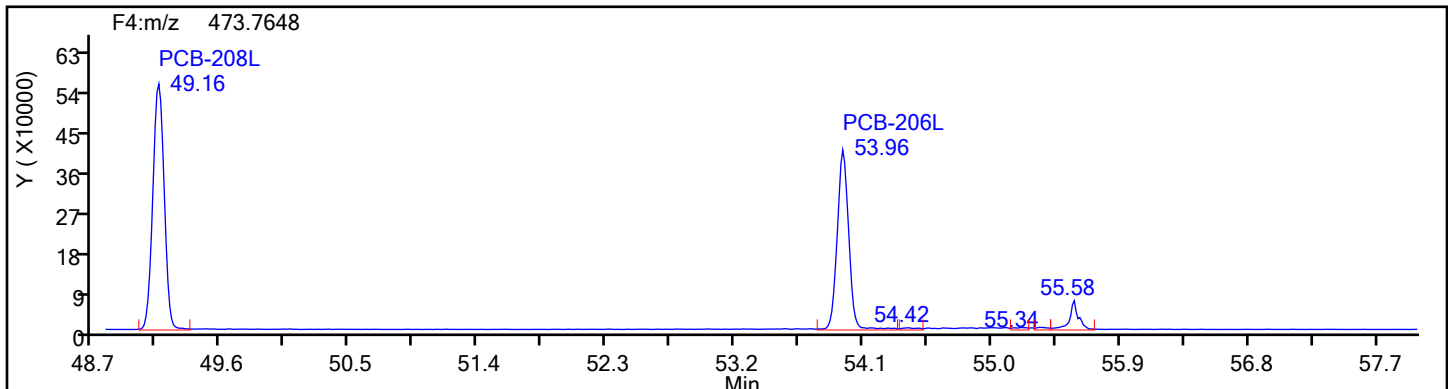


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 2  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



## NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

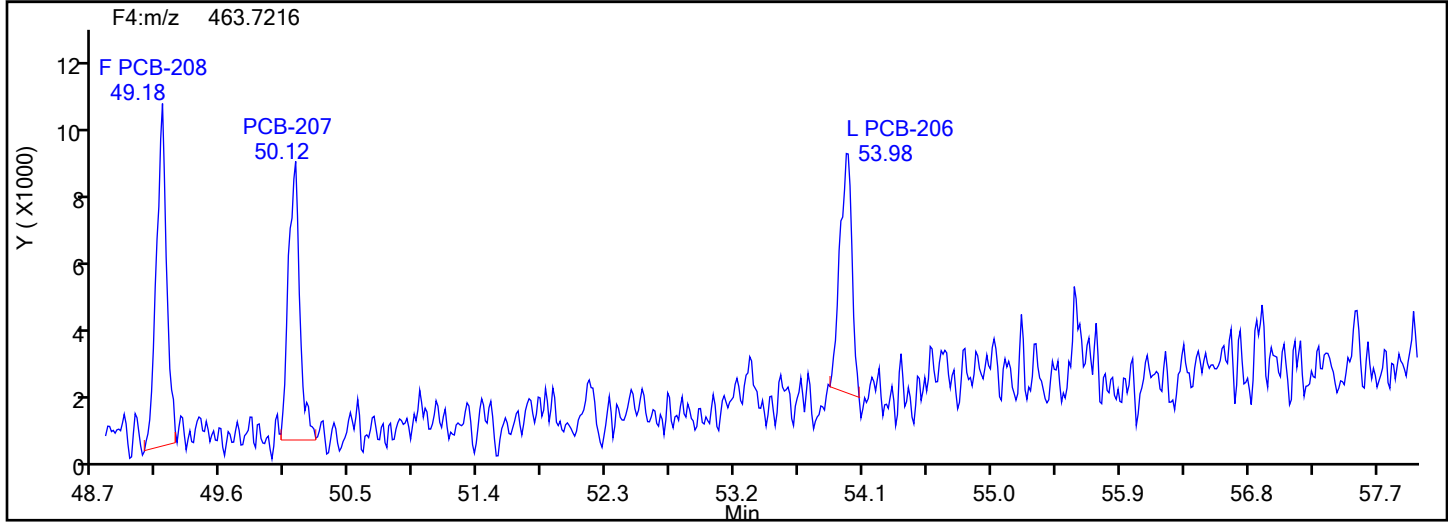
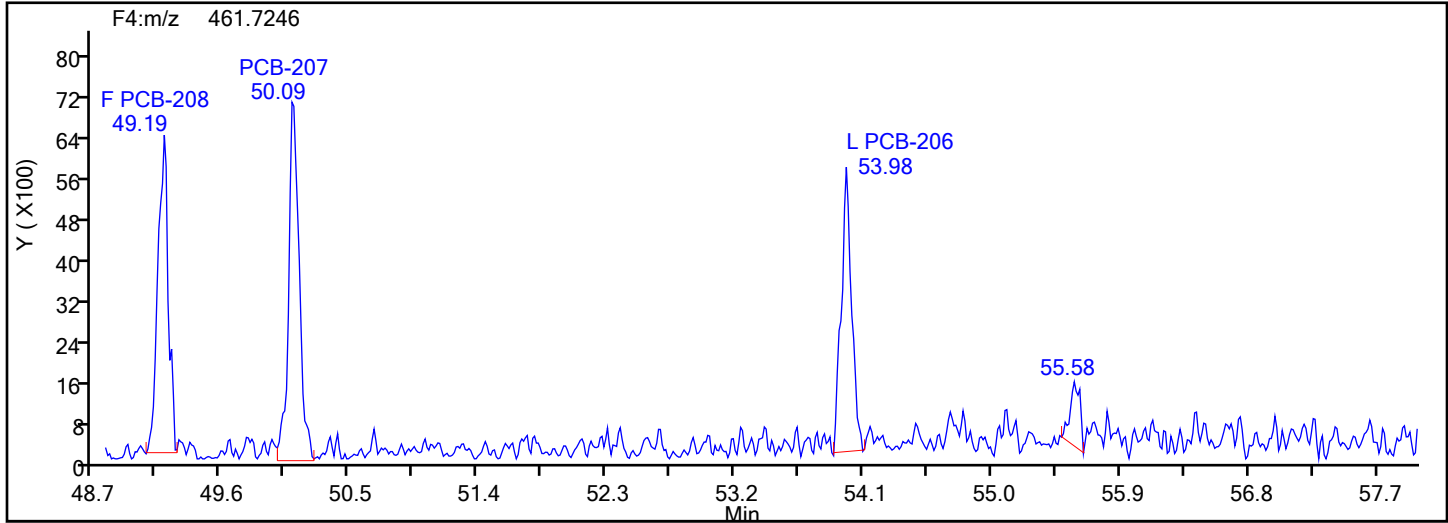
Worklist#: 87130

Sample Line#: 2

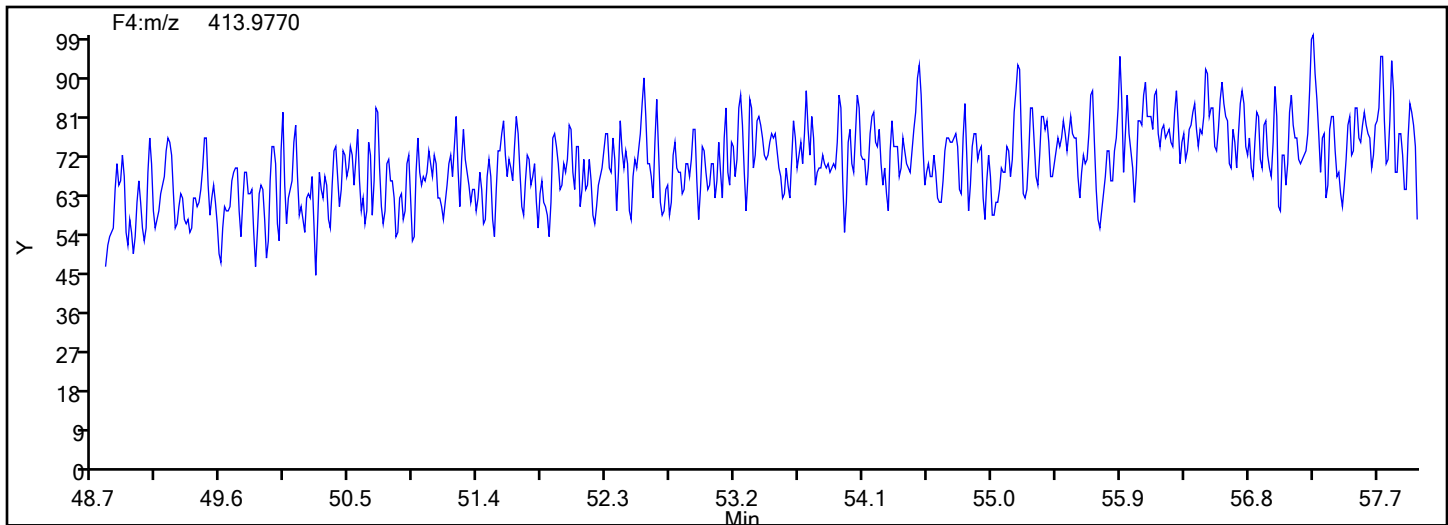
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



## NoPCB F4 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d		
Injection Date:	31-May-2024 16:53:00	Instrument ID:	D2D
Lims ID:	IC L2		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 F
Column:	SPB-Octyl ( 0.25 mm)	Detector	F4(49.20 :57.50

Signal: 2

## Eurofins Knoxville

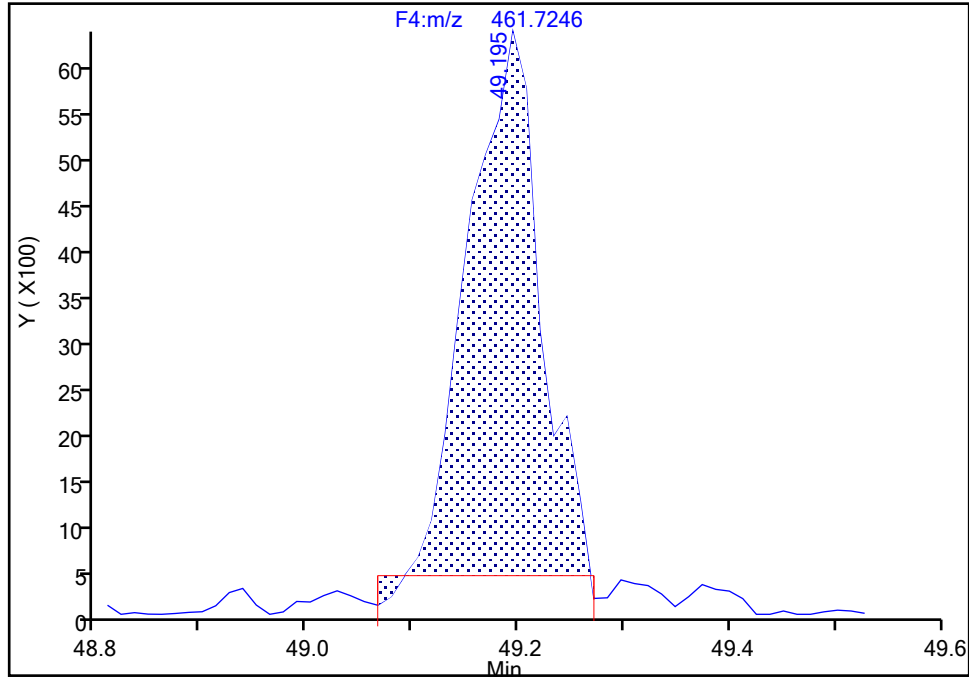
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

PCB-208, CAS: 52663-77-1

Signal: 1

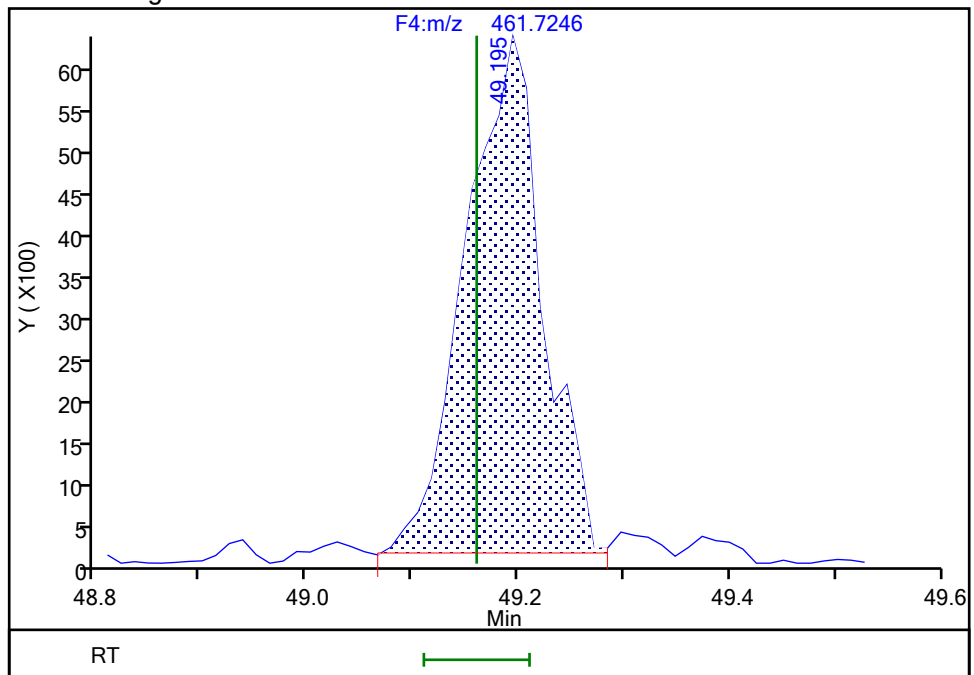
RT: 49.19  
Area: 27820  
Amount: 0.856155  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.19  
Area: 31684  
Amount: 1.036303  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:56:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

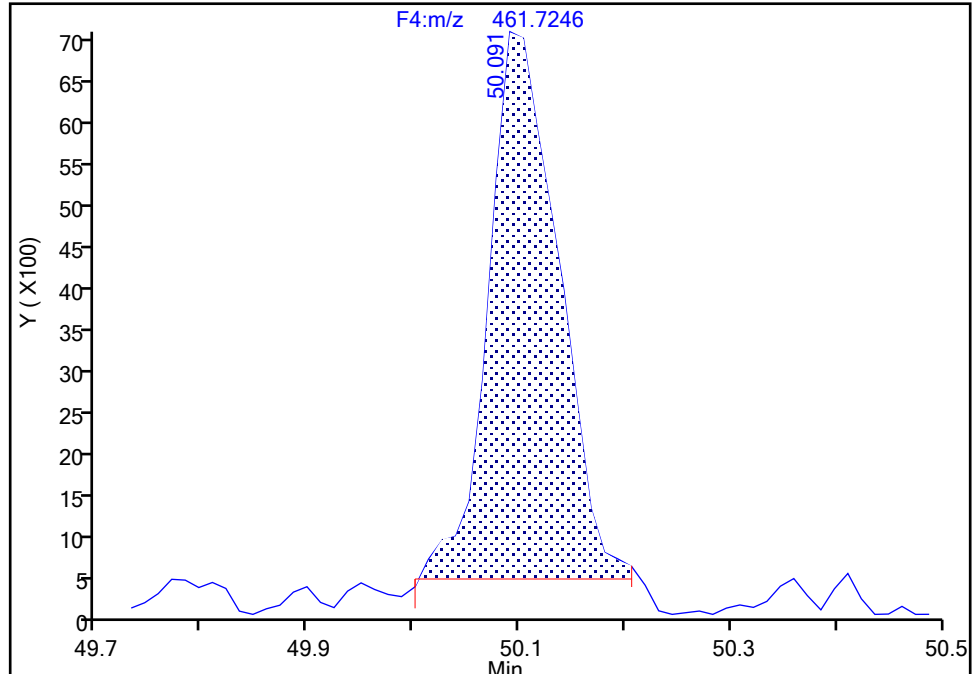
Detector F4(49.20 :57.50 )

**PCB-207, CAS: 52663-79-3**

Signal: 1

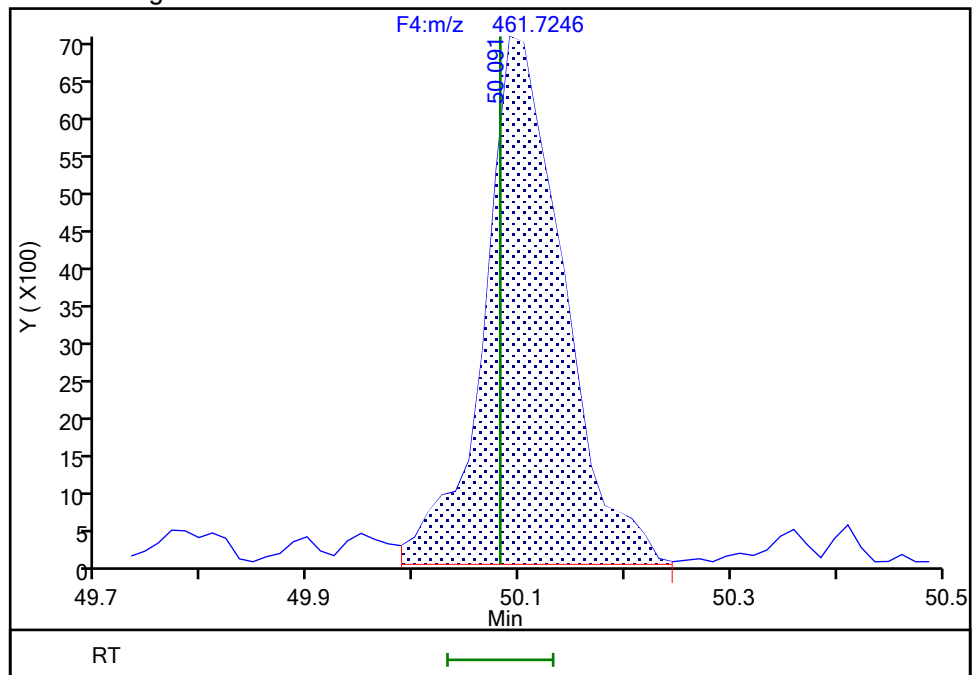
RT: 50.09  
Area: 30187  
Amount: 0.767801  
Amount Units: pg/ul

## Processing Integration Results



RT: 50.09  
Area: 36477  
Amount: 0.994864  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

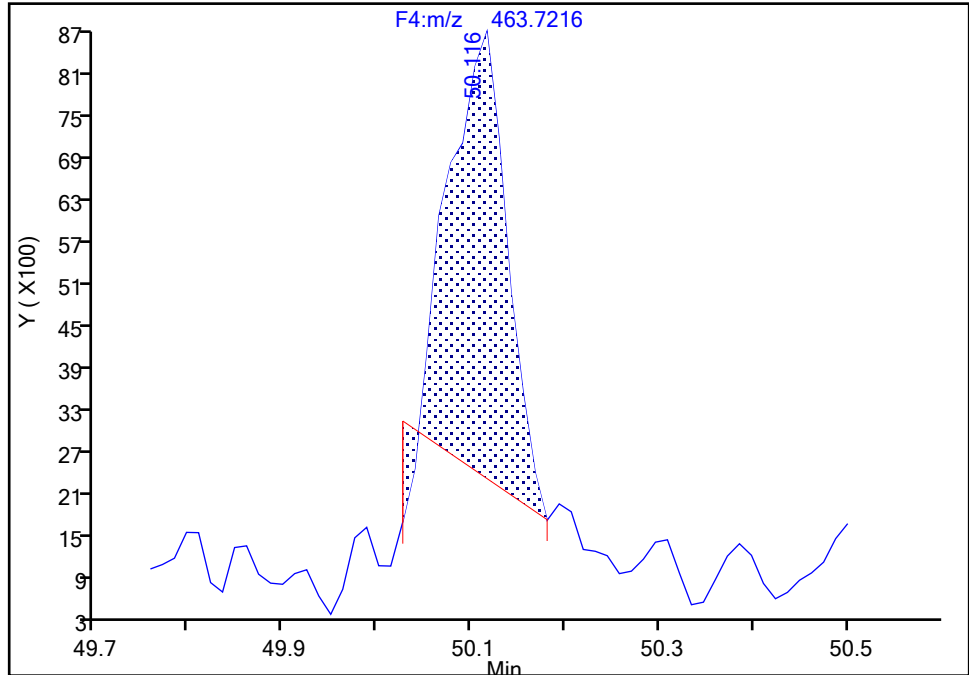
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

PCB-207, CAS: 52663-79-3

Signal: 2

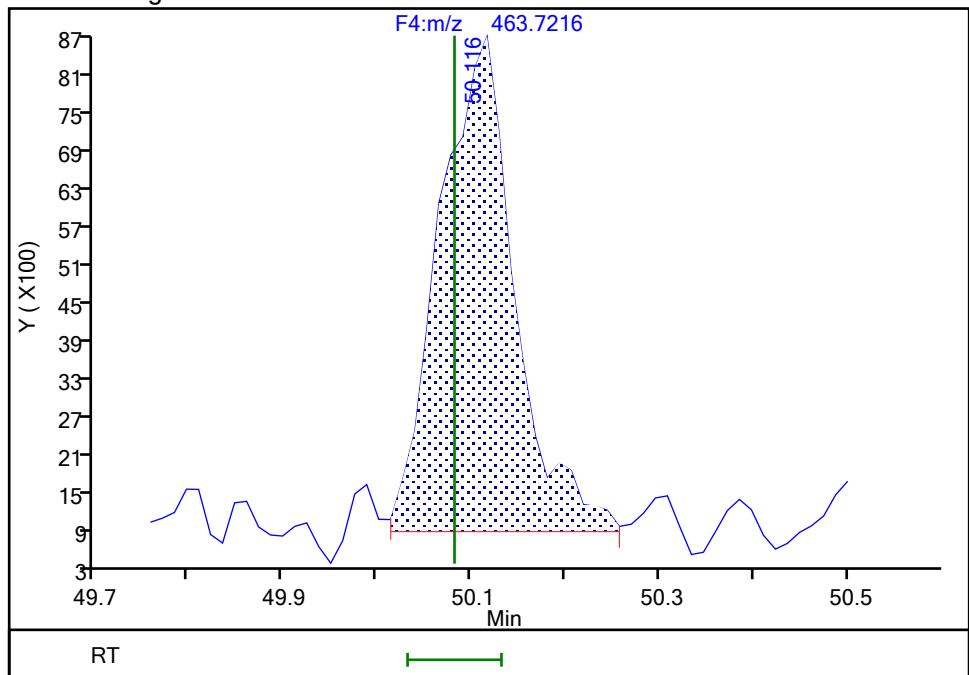
RT: 50.12  
Area: 26115  
Amount: 0.767801  
Amount Units: pg/ul

## Processing Integration Results



RT: 50.12  
Area: 43355  
Amount: 0.994864  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 19:40:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Instrument ID: D2D

Lims ID: IC L2

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

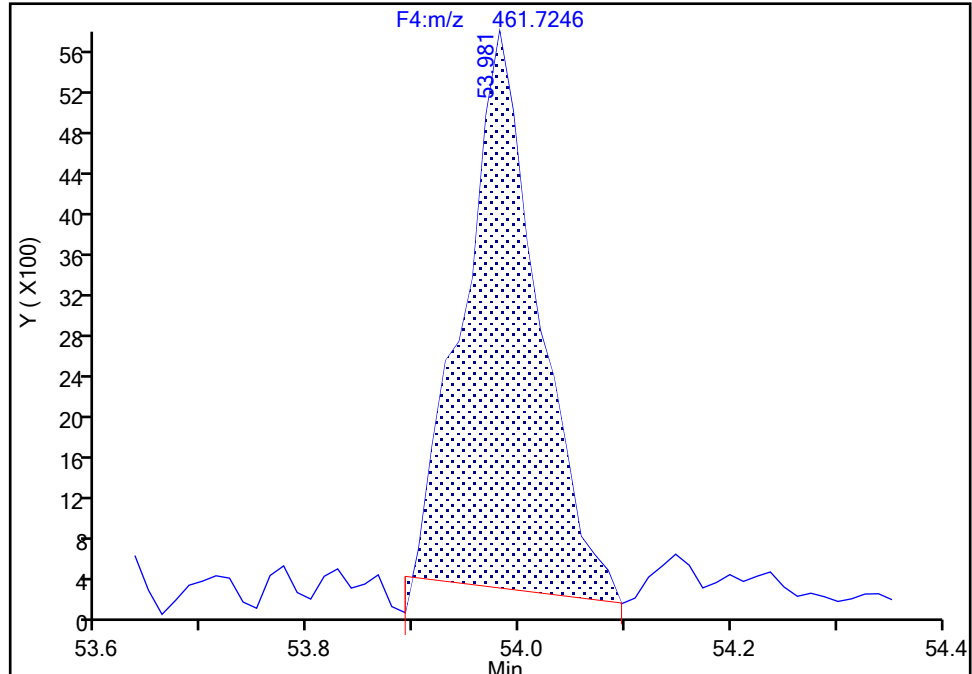
Detector F4(49.20 :57.50 )

**PCB-206, CAS: 40186-72-9**

Signal: 1

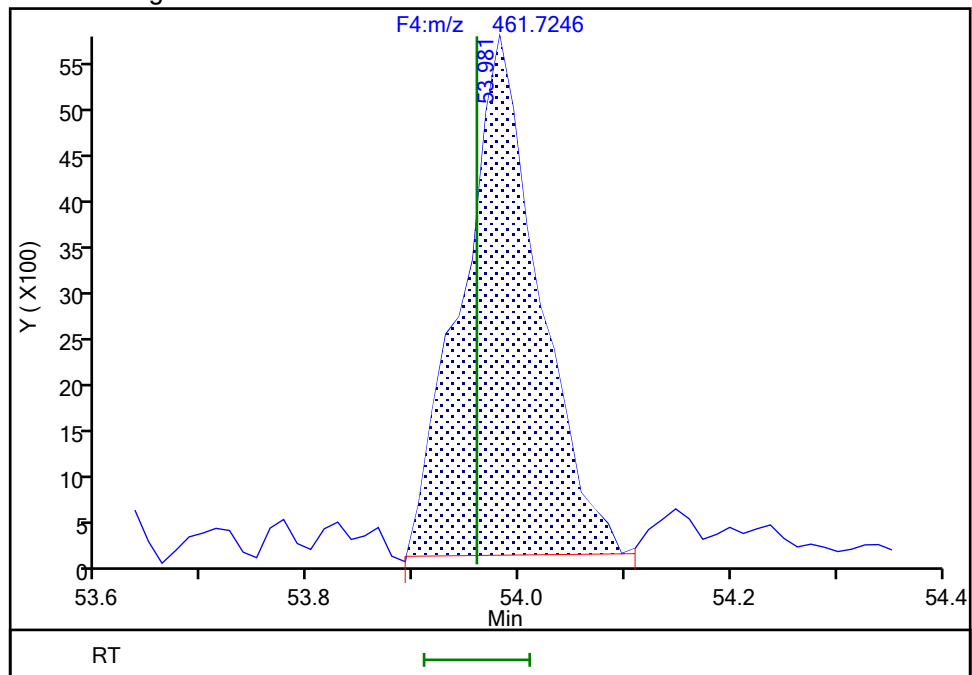
RT: 53.98  
Area: 26385  
Amount: 0.989782  
Amount Units: pg/ul

## Processing Integration Results



RT: 53.98  
Area: 28296  
Amount: 1.029702  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:56:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

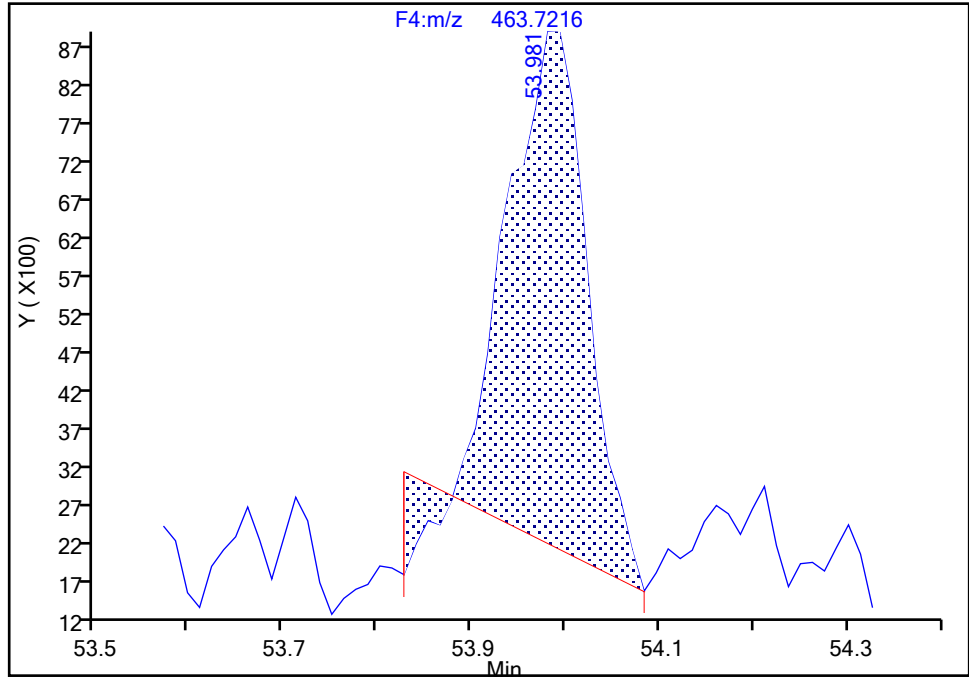
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d  
Injection Date: 31-May-2024 16:53:00 Instrument ID: D2D  
Lims ID: IC L2  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

**PCB-206, CAS: 40186-72-9**

Signal: 2

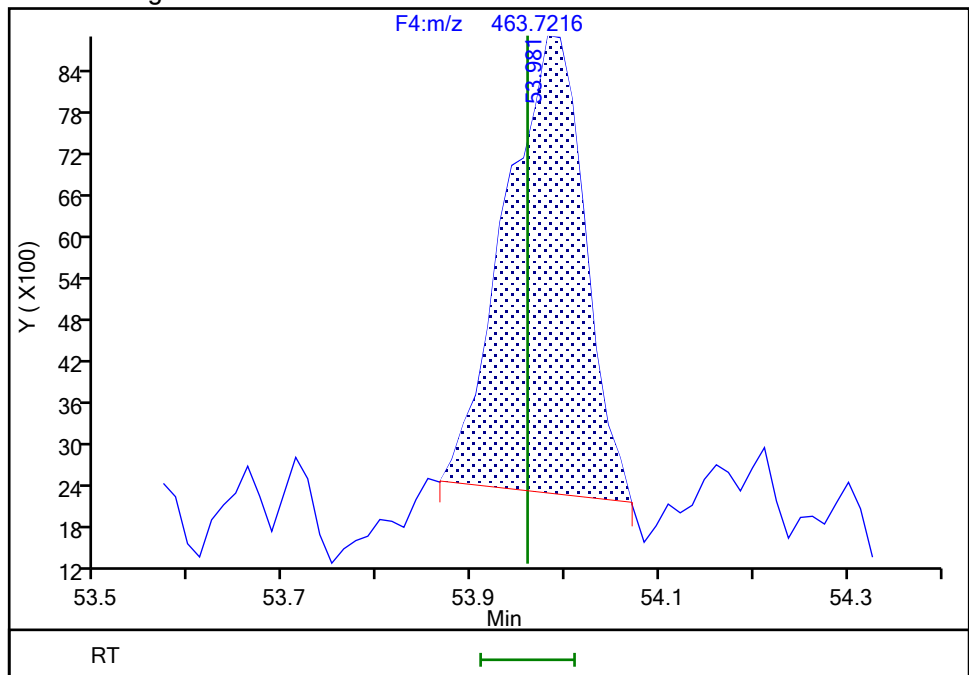
RT: 53.98  
Area: 37674  
Amount: 0.989782  
Amount Units: pg/ul

## Processing Integration Results



RT: 53.98  
Area: 39161  
Amount: 1.029702  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 17:57:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

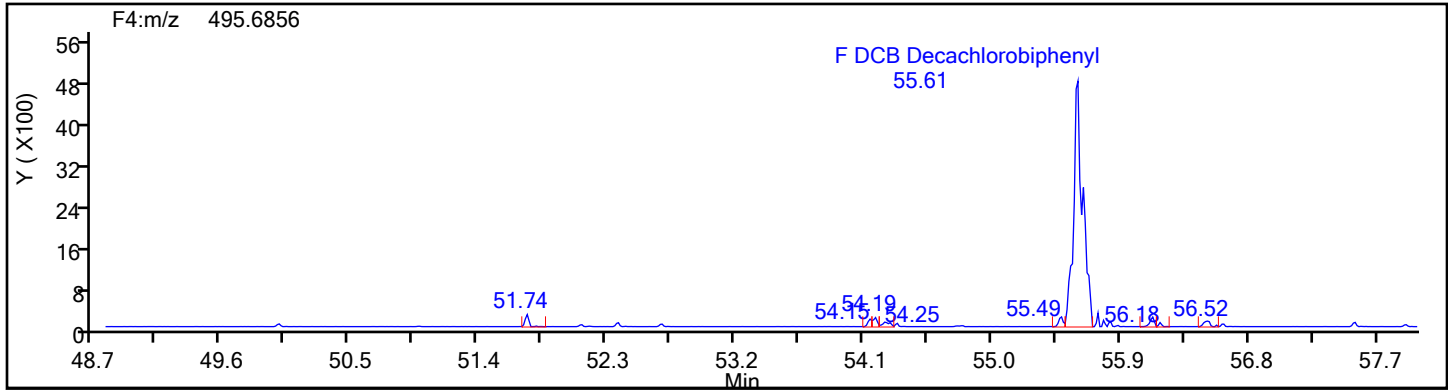
Worklist#: 87130

Sample Line#: 2

Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi2a.d

Injection Date: 31-May-2024 16:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

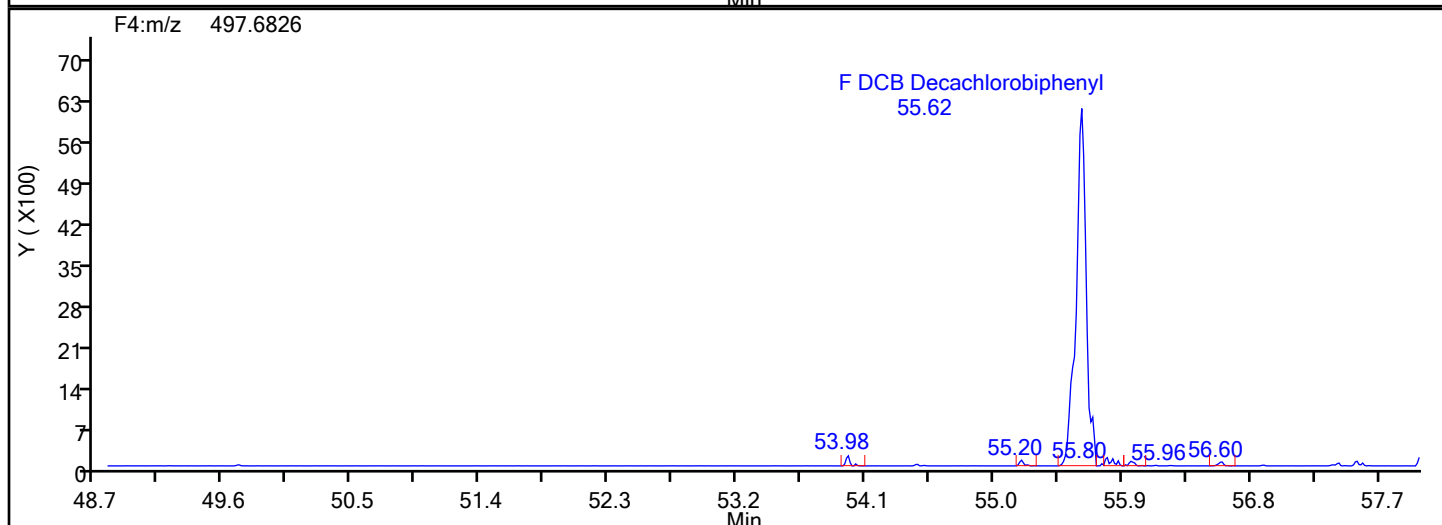
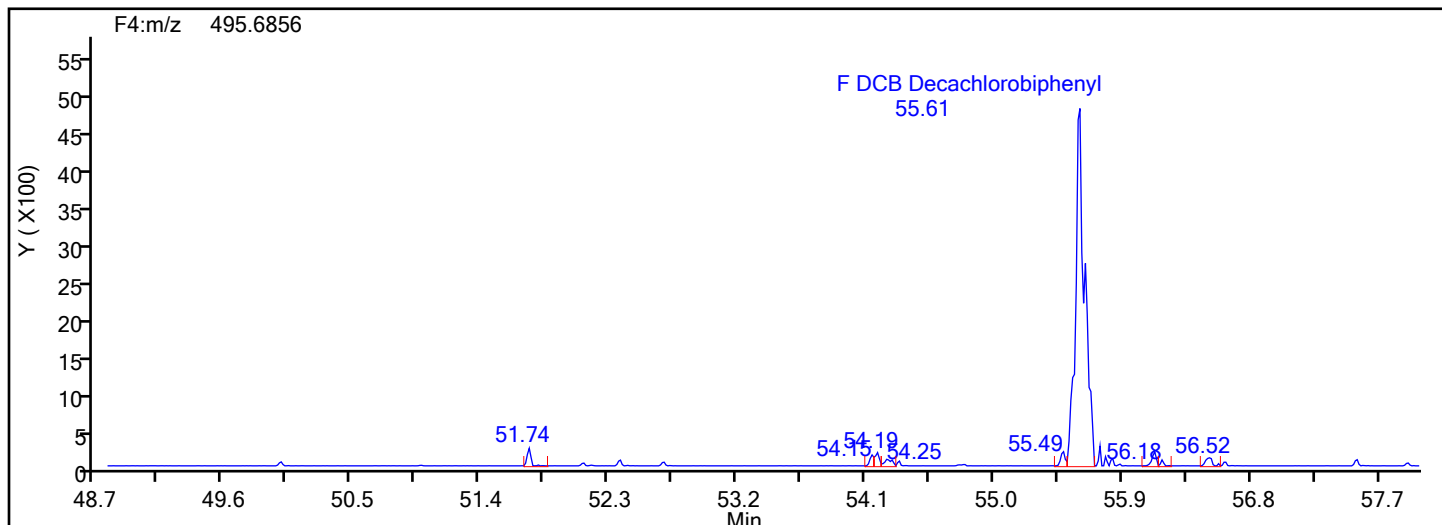
Worklist#: 87130

Sample Line#: 2

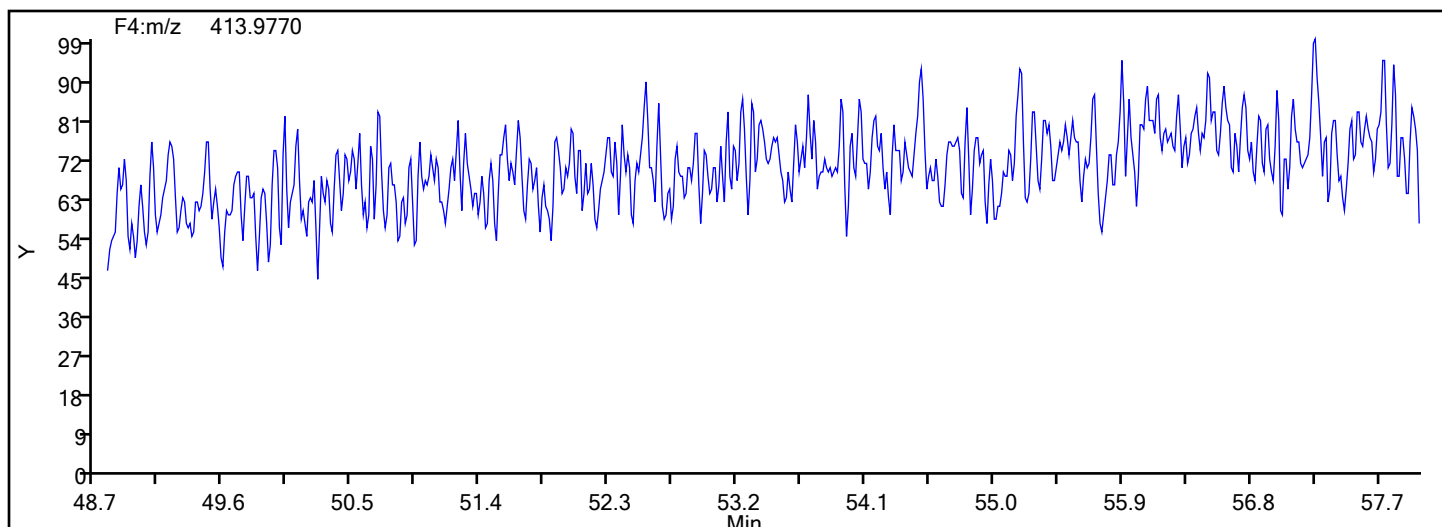
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Lims ID: IC L3  
Client ID:  
Sample Type: IC Calib Level: 3  
Inject. Date: 31-May-2024 18:00:00 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-003  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:27:15 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:20:28

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					14.8	14.8	0.0308	0.0308		
D PCB-1L	11:37	13253788	3.15	1.6108	98.6	98.6	0.2469	0.2469	98.62	
D PCB-3L	13:47	13154993	3.17	1.5891	99.2	99.2	0.2503	0.2503	99.22	
PCB-1	11:38	796059	3.31	1.2191	4.927	4.927	0.0277	0.0277	98.53	
PCB-2	13:37	768397	3.07	1.1805	4.929	4.929	0.0313	0.0313	98.59	
PCB-3	13:47	799957	3.33	1.2206	4.982	4.982	0.0334	0.0334	99.64	
S Total Dichlorobiphenyls					59.4	59.4	0.0133	0.0133		
D PCB-4L	14:02	5279032	1.61	0.6475	97.7	97.7	0.1199	0.1199	97.71	
* PCB-9L	16:00	8343115	1.62		100.0	100.0				
\$ PCB-8L	16:50	467355	1.69	1.2066	5.500	5.500	0.0832	0.0832	110	M
D PCB-15L	19:54	8806182	1.61	1.0789	97.8	97.8	0.0720	0.0720	97.83	
PCB-4	14:03	337353	1.62	1.2818	4.985	4.985	0.0161	0.0161	99.71	
PCB-10	14:13	471835	1.69	1.3149	5.095	5.095	0.0138	0.0138	102	
PCB-9	16:01	514126	1.63	1.4224	5.132	5.132	0.0128	0.0128	103	
PCB-7	16:11	476841	1.56	1.4134	4.790	4.790	0.0129	0.0129	95.81	
PCB-6	16:25	517825	1.65	1.5421	4.768	4.768	0.0118	0.0118	95.36	
PCB-5	16:43	457479	1.55	1.3395	4.850	4.850	0.0136	0.0136	96.99	
PCB-8	16:51	552662	1.61	1.5889	4.939	4.939	0.0115	0.0115	98.78	
PCB-14	18:28	492912	1.57	1.4025	4.990	4.990	0.0130	0.0130	99.81	
PCB-11	19:19	452818	1.62	1.2951	4.965	4.965	0.0141	0.0141	99.30	
PCB-12	19:37	943457	1.57	1.3358	10.0	10.0	0.0136	0.0136	100	
PCB-13 (C12)	19:37	943457	1.57	1.3358	10.0	10.0	0.0136	0.0136	100	
PCB-15	19:56	552286	1.63	1.2903	4.861	4.861	0.0126	0.0126	97.21	
S Total Trichlorobiphenyls					117.8	117.8	0.0773	0.0773		
D PCB-19L	17:08	3389482	1.07	0.6285	102.1	102.1	0.4214	0.4214	102	
* PCB-32L	20:24	5282294	1.08		100.0	100.0				
* PCB-31L	22:39	15275204	1.06		100.0	100.0				
\$ PCB-28L	22:56	930321	1.03	1.0494	5.804	5.804	0.0746	0.0746	116	
D PCB-37L	26:56	13114910	1.07	0.8749	98.1	98.1	0.0895	0.0895	98.13	
PCB-19	17:09	215976	1.18	1.2809	4.975	4.975	0.0162	0.0162	99.49	
PCB-18	19:00	588680	1.05	1.7652	9.839	9.839	0.0118	0.0118	98.39	
PCB-30 (C18)	19:00	588680	1.05	1.7652	9.839	9.839	0.0118	0.0118	98.39	
PCB-17	19:26	206164	1.06	1.2430	4.893	4.893	0.0167	0.0167	97.87	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:39	310541	1.15	1.8327	4.999	4.999	0.0113	0.0113	99.98	
PCB-24	19:46	276459	1.10	1.6777	4.862	4.862	0.0124	0.0124	97.24	
PCB-16	19:54	189210	1.05	1.1286	4.946	4.946	0.0184	0.0184	98.93	
PCB-32	20:24	310058	1.07	1.8324	4.992	4.992	0.0113	0.0113	99.84	
PCB-34	21:40	741948	1.03	1.1277	5.016	5.016	0.1123	0.1123	100	
PCB-23	21:49	710024	1.04	1.0813	5.007	5.007	0.1172	0.1172	100	
PCB-26	22:08	1426183	1.04	1.1255	9.662	9.662	0.1126	0.1126	96.62	
PCB-29 (C26)	22:08	1426183	1.04	1.1255	9.662	9.662	0.1126	0.1126	96.62	
PCB-25	22:22	798213	1.09	1.2728	4.782	4.782	0.0995	0.0995	95.64	
PCB-31	22:40	744974	1.06	1.1532	4.926	4.926	0.1099	0.1099	98.51	
PCB-20	22:58	1483821	1.05	1.1718	9.655	9.655	0.1081	0.1081	96.55	
PCB-28 (C20)	22:58	1483821	1.05	1.1718	9.655	9.655	0.1081	0.1081	96.55	
PCB-21	23:08	1403700	1.05	1.0746	9.960	9.960	0.1179	0.1179	99.60	M
PCB-33 (C21)	23:08	1403700	1.05	1.0746	9.960	9.960	0.1179	0.1179	99.60	M
PCB-22	23:35	739669	1.04	1.1932	4.727	4.727	0.1062	0.1062	94.53	
PCB-36	25:10	731454	1.06	1.1071	5.038	5.038	0.1144	0.1144	101	
PCB-39	25:31	760165	1.05	1.1581	5.005	5.005	0.1094	0.1094	100	
PCB-38	26:06	680342	1.03	1.0843	4.784	4.784	0.1168	0.1168	95.68	
PCB-35	26:33	721094	1.00	1.1297	4.867	4.867	0.1121	0.1121	97.34	
PCB-37	26:57	723492	0.98	1.1435	4.824	4.824	0.1108	0.1108	96.48	
S Total Tetrachlorobiphenyls					203.4	203.4	0.1436	0.1436		
D PCB-54L	20:12	2803421	0.81	0.5562	95.4	95.4	0.0457	0.0457	95.42	M
* PCB-52L	24:47	7684810	0.79		100.0	100.0				
\$ PCB-79L	32:42	504032	0.86	1.0018	5.174	5.174	0.1659	0.1659	103	
D PCB-81L	33:41	9411321	0.80	1.2470	98.2	98.2	0.1444	0.1444	98.21	
D PCB-77L	34:15	10036639	0.82	1.3212	98.9	98.9	0.1363	0.1363	98.85	
PCB-54	20:14	187801	0.85	1.2733	5.261	5.261	0.0132	0.0132	105	
PCB-50	22:25	797957	0.78	0.8578	9.567	9.567	0.1844	0.1844	95.67	
PCB-53 (C50)	22:25	797957	0.78	0.8578	9.567	9.567	0.1844	0.1844	95.67	
PCB-45	23:08	788555	0.75	0.8264	9.813	9.813	0.1914	0.1914	98.13	M
PCB-51 (C45)	23:08	788555	0.75	0.8264	9.813	9.813	0.1914	0.1914	98.13	M
PCB-46	23:23	340774	0.81	0.7101	4.935	4.935	0.2227	0.2227	98.71	
PCB-52	24:48	439829	0.77	0.9194	4.920	4.920	0.1720	0.1720	98.39	
PCB-43	24:57	974936	0.77	1.0333	9.703	9.703	0.1531	0.1531	97.03	M
PCB-73 (C43)	24:57	974936	0.77	1.0333	9.703	9.703	0.1531	0.1531	97.03	M
PCB-49	25:14	1002960	0.78	1.0685	9.653	9.653	0.1480	0.1480	96.53	
PCB-69 (C49)	25:14	1002960	0.78	1.0685	9.653	9.653	0.1480	0.1480	96.53	
PCB-48	25:33	401794	0.84	0.8399	4.920	4.920	0.1883	0.1883	98.39	
PCB-44	25:48	1344248	0.78	0.9731	14.2	14.2	0.1625	0.1625	94.71	
PCB-47 (C44)	25:48	1344248	0.78	0.9731	14.2	14.2	0.1625	0.1625	94.71	
PCB-65 (C44)	25:48	1344248	0.78	0.9731	14.2	14.2	0.1625	0.1625	94.71	
PCB-59	26:07	1597958	0.78	1.1853	13.9	13.9	0.1334	0.1334	92.43	
PCB-62 (C59)	26:07	1597958	0.78	1.1853	13.9	13.9	0.1334	0.1334	92.43	
PCB-75 (C59)	26:07	1597958	0.78	1.1853	13.9	13.9	0.1334	0.1334	92.43	
PCB-42	26:19	398654	0.73	0.8097	5.064	5.064	0.1954	0.1954	101	
PCB-40	26:49	1243102	0.76	0.8863	14.4	14.4	0.1785	0.1785	96.16	M
PCB-41 (C40)	26:49	1243102	0.76	0.8863	14.4	14.4	0.1785	0.1785	96.16	M
PCB-71 (C40)	26:49	1243102	0.76	0.8863	14.4	14.4	0.1785	0.1785	96.16	M
PCB-64	27:02	549661	0.77	1.1776	4.800	4.800	0.1343	0.1343	96.01	
PCB-72	27:52	528848	0.86	1.0943	4.970	4.970	0.1445	0.1445	99.40	
PCB-68	28:09	618865	0.81	1.2533	5.078	5.078	0.1262	0.1262	102	
PCB-57	28:35	515271	0.79	1.0818	4.898	4.898	0.1462	0.1462	97.96	
PCB-58	28:49	638910	0.75	1.3253	4.958	4.958	0.1193	0.1193	99.15	
PCB-67	28:58	662955	0.81	1.4230	4.791	4.791	0.1111	0.1111	95.82	
PCB-63	29:14	544766	0.77	1.1240	4.984	4.984	0.1407	0.1407	99.69	
PCB-61	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-70 (C61)	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-74 (C61)	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-76 (C61)	29:34	2351306	0.82	1.2612	19.2	19.2	0.1254	0.1254	95.86	M
PCB-66	29:54	600993	0.79	1.2583	4.912	4.912	0.1257	0.1257	98.24	
PCB-55	30:04	630084	0.81	1.3236	4.895	4.895	0.1195	0.1195	97.91	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:34	577077	0.81	1.2334	4.812	4.812	0.1282	0.1282	96.23	M
PCB-60	30:47	510799	0.81	1.1230	4.677	4.677	0.1408	0.1408	93.55	
PCB-80	31:12	618593	0.84	1.3243	4.804	4.804	0.1194	0.1194	96.08	
PCB-79	32:43	655831	0.79	1.4368	4.694	4.694	0.1101	0.1101	93.88	
PCB-78	33:16	551876	0.77	1.1618	4.885	4.885	0.1361	0.1361	97.70	M
PCB-81	33:42	499582	0.80	1.0802	4.914	4.914	0.1499	0.1499	98.28	M
PCB-77	34:16	520129	0.84	1.0836	4.783	4.783	0.1426	0.1426	95.65	
S Total Pentachlorobiphenyls					222.5	222.5	0.0403	0.0403		
D PCB-104L	25:43	6307301	1.60	1.2161	103.6	103.6	0.0256	0.0256	104	
\$ PCB-95L	28:41	234474	1.70	0.7218	5.150	5.150	0.0318	0.0318	103	
* PCB-101L	31:37	5008775	1.60		100.0	100.0				
\$ PCB-111L	34:18	394315	1.61	1.3699	5.747	5.747	0.0228	0.0228	115	
D PCB-123L	36:15	9321962	1.59	0.9731	102.1	102.1	1.221	1.221	102	
D PCB-118L	36:35	9948185	1.58	1.0102	104.9	104.9	1.176	1.176	105	
D PCB-114L	37:07	9387618	1.61	0.9949	100.5	100.5	1.194	1.194	101	
D PCB-105L	37:45	9087875	1.60	0.9514	101.8	101.8	1.249	1.249	102	
* PCB-127L	39:14	9385497	1.60		100.0	100.0				
D PCB-126L	40:51	8945635	1.60	0.9439	101.0	101.0	1.259	1.259	101	
PCB-104	25:44	306050	1.57	1.0087	4.810	4.810	0.002672	0.002672	96.21	
PCB-96	26:06	338671	1.66	1.0940	4.908	4.908	0.002463	0.002463	98.16	
PCB-103	28:03	272723	1.63	0.8741	4.947	4.947	0.003083	0.003083	98.93	
PCB-94	28:15	243354	1.52	0.7640	5.050	5.050	0.003527	0.003527	101	
PCB-95	28:42	247318	1.63	0.8033	4.881	4.881	0.003355	0.003355	97.63	
PCB-93	28:56	508477	1.54	0.8429	9.565	9.565	0.003197	0.003197	95.65	
PCB-100 (C93)	28:56	508477	1.54	0.8429	9.565	9.565	0.003197	0.003197	95.65	
PCB-98	29:05	526504	1.64	0.8262	10.1	10.1	0.003262	0.003262	101	M
PCB-102 (C98)	29:05	526504	1.64	0.8262	10.1	10.1	0.003262	0.003262	101	M
PCB-88	29:28	497525	1.60	0.8013	9.844	9.844	0.003363	0.003363	98.44	M
PCB-91 (C88)	29:28	497525	1.60	0.8013	9.844	9.844	0.003363	0.003363	98.44	M
PCB-84	29:47	225737	1.61	0.7299	4.903	4.903	0.003692	0.003692	98.06	
PCB-89	30:17	245536	1.57	0.7798	4.992	4.992	0.003456	0.003456	99.84	
PCB-121	30:41	406765	1.67	1.2964	4.975	4.975	0.002079	0.002079	99.49	
PCB-92	31:03	260863	1.63	0.8546	4.840	4.840	0.003154	0.003154	96.80	
PCB-90	31:38	853991	1.53	0.9550	14.2	14.2	0.002822	0.002822	94.52	
PCB-101 (C90)	31:38	853991	1.53	0.9550	14.2	14.2	0.002822	0.002822	94.52	
PCB-113 (C90)	31:38	853991	1.53	0.9550	14.2	14.2	0.002822	0.002822	94.52	
PCB-83	32:13	528892	1.48	0.8385	10.0	10.0	0.003214	0.003214	100	M
PCB-99 (C83)	32:13	528892	1.48	0.8385	10.0	10.0	0.003214	0.003214	100	M
PCB-112	32:20	437482	1.71	1.4111	4.915	4.915	0.001910	0.001910	98.31	
PCB-86	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-87 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-97 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-109 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-119 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-125 (C86)	32:42	1846778	1.59	1.0473	28.0	28.0	0.002573	0.002573	93.19	M
PCB-85	33:26	938339	1.57	1.0408	14.3	14.3	0.002589	0.002589	95.29	M
PCB-116 (C85)	33:26	938339	1.57	1.0408	14.3	14.3	0.002589	0.002589	95.29	M
PCB-117 (C85)	33:26	938339	1.57	1.0408	14.3	14.3	0.002589	0.002589	95.29	M
PCB-110	33:38	734092	1.59	1.1919	9.765	9.765	0.002261	0.002261	97.65	M
PCB-115 (C110)	33:38	734092	1.59	1.1919	9.765	9.765	0.002261	0.002261	97.65	M
PCB-82	33:56	257633	1.50	0.8303	4.919	4.919	0.003246	0.003246	98.39	
PCB-111	34:20	366927	1.71	1.2125	4.798	4.798	0.002223	0.002223	95.96	
PCB-120	34:48	446498	1.64	1.4762	4.795	4.795	0.001826	0.001826	95.91	
PCB-108	35:56	1034062	1.58	1.1405	9.709	9.709	0.1160	0.1160	97.09	
PCB-124 (C108)	35:56	1034062	1.58	1.1405	9.709	9.709	0.1160	0.1160	97.09	
PCB-107	36:11	576281	1.52	1.2121	5.091	5.091	0.1092	0.1092	102	
PCB-123	36:17	444649	1.54	1.0722	4.449	4.449	0.1220	0.1220	88.97	
PCB-106	36:24	501472	1.50	1.0839	4.954	4.954	0.1221	0.1221	99.09	
PCB-118	36:37	579609	1.57	1.2055	4.833	4.833	0.1034	0.1034	96.66	
PCB-122	36:57	416752	1.47	0.9567	4.665	4.665	0.1383	0.1383	93.30	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:08	496695	1.43	1.0842	4.880	4.880	0.1191	0.1191	97.61	
PCB-105	37:47	513401	1.56	1.1879	4.756	4.756	0.1159	0.1159	95.11	M
PCB-127	39:15	505934	1.52	1.1394	4.755	4.755	0.1161	0.1161	95.10	M
PCB-126	40:51	483239	1.56	1.0976	4.922	4.922	0.1281	0.1281	98.43	
S Total Hexachlorobiphenyls					206.9	206.9	0.0442	0.0442		
D PCB-155L	31:23	5708638	1.27	1.0851	105.0	105.0	0.0356	0.0356	105	
\$ PCB-153L	38:28	444756	1.28	0.9169	6.065	6.065	0.7601	0.7601	121	
* PCB-138L	39:43	6431603	1.27		100.0	100.0				
\$ PCB-159L	41:57	4130110	1.30	0.5118	99.0	99.0	1.122	1.122	99.00	
D PCB-167L	42:43	8150383	1.29	1.2572	100.8	100.8	0.5795	0.5795	101	
D PCB-156L	43:52	15994835	1.29	1.2106	205.4	205.4	0.6018	0.6018	103	
D PCB-157L (C156L)	43:52	15994835	1.29	1.2106	205.4	205.4	0.6018	0.6018	103	
D PCB-169L	47:06	7844285	1.29	1.2439	98.1	98.1	0.5857	0.5857	98.05	
PCB-155	31:25	269852	1.19	0.9444	5.005	5.005	0.005858	0.005858	100	
PCB-152	31:37	280445	1.25	0.9895	4.965	4.965	0.005591	0.005591	99.29	
PCB-150	31:47	292889	1.19	1.0132	5.064	5.064	0.005460	0.005460	101	
PCB-136	32:09	270798	1.37	1.0116	4.689	4.689	0.005469	0.005469	93.79	
PCB-145	32:26	275033	1.36	0.9685	4.975	4.975	0.005712	0.005712	99.49	
PCB-148	33:58	215061	1.37	0.7603	4.955	4.955	0.007276	0.007276	99.10	
PCB-135	34:35	403202	1.34	0.7256	9.734	9.734	0.007624	0.007624	97.34	
PCB-151 (C135)	34:35	403202	1.34	0.7256	9.734	9.734	0.007624	0.007624	97.34	
PCB-154	34:48	228222	1.32	0.8129	4.918	4.918	0.006805	0.006805	98.36	
PCB-144	35:06	217725	1.29	0.7852	4.857	4.857	0.007045	0.007045	97.14	
PCB-147	35:28	675152	1.30	0.8950	9.433	9.433	0.0624	0.0624	94.33	
PCB-149 (C147)	35:28	675152	1.30	0.8950	9.433	9.433	0.0624	0.0624	94.33	
PCB-134	35:46	640616	1.23	0.7967	10.1	10.1	0.0701	0.0701	101	
PCB-143 (C134)	35:46	640616	1.23	0.7967	10.1	10.1	0.0701	0.0701	101	
PCB-139	36:03	673528	1.25	0.8769	9.605	9.605	0.0637	0.0637	96.05	
PCB-140 (C139)	36:03	673528	1.25	0.8769	9.605	9.605	0.0637	0.0637	96.05	
PCB-131	36:15	289665	1.37	0.7503	4.827	4.827	0.0745	0.0745	96.55	
PCB-142	36:24	301166	1.15	0.7507	5.016	5.016	0.0744	0.0744	100	
PCB-132	36:45	300578	1.28	0.7489	5.018	5.018	0.0746	0.0746	100	
PCB-133	37:14	328133	1.24	0.8096	5.068	5.068	0.0690	0.0690	101	
PCB-165	37:37	408419	1.29	1.0247	4.984	4.984	0.0545	0.0545	99.67	
PCB-146	37:52	378659	1.23	0.9637	4.913	4.913	0.0580	0.0580	98.27	
PCB-161	38:01	438810	1.27	1.1288	4.861	4.861	0.0495	0.0495	97.22	
PCB-153	38:31	893507	1.27	1.0938	10.2	10.2	0.0511	0.0511	102	
PCB-168 (C153)	38:31	893507	1.27	1.0938	10.2	10.2	0.0511	0.0511	102	
PCB-141	38:41	338462	1.30	0.8755	4.834	4.834	0.0638	0.0638	96.68	
PCB-130	39:06	279233	1.33	0.7051	4.952	4.952	0.0792	0.0792	99.04	
PCB-137	39:18	318450	1.27	0.7767	5.127	5.127	0.0719	0.0719	103	
PCB-164	39:26	400805	1.29	1.0382	4.827	4.827	0.0538	0.0538	96.54	
PCB-129	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-138 (C129)	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-160 (C129)	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-163 (C129)	39:44	1473269	1.26	0.9464	19.5	19.5	0.0590	0.0590	97.33	M
PCB-158	40:07	509962	1.21	1.3110	4.864	4.864	0.0426	0.0426	97.28	
PCB-128	40:58	747908	1.19	0.9829	9.514	9.514	0.0568	0.0568	95.14	
PCB-166 (C128)	40:58	747908	1.19	0.9829	9.514	9.514	0.0568	0.0568	95.14	
PCB-159	41:59	558064	1.29	1.3856	5.036	5.036	0.0403	0.0403	101	
PCB-162	42:16	513669	1.22	1.2571	5.109	5.109	0.0444	0.0444	102	
PCB-167	42:44	464967	1.26	1.1159	5.112	5.112	0.0413	0.0413	102	
PCB-156	43:54	886471	1.28	1.1104	9.982	9.982	0.0596	0.0596	99.82	
PCB-157 (C156)	43:54	886471	1.28	1.1104	9.982	9.982	0.0596	0.0596	99.82	
PCB-169	47:07	452938	1.19	1.1628	4.966	4.966	0.0437	0.0437	99.31	
S Total Heptachlorobiphenyls					116.4	116.4	0.002706	0.002706		
D PCB-188L	37:07	6664037	1.07	1.3133	101.1	101.1	0.0332	0.0332	101	
\$ PCB-178L	40:10	290779	1.11	1.0313	5.616	5.616	0.0422	0.0422	112	
* PCB-180L	45:16	5019998	1.05		100.0	100.0				

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:31	4357834	1.06	0.8362	103.8	103.8	0.0521	0.0521	104	
D PCB-189L	49:38	10235768	1.06	1.4414	99.1	99.1	0.5611	0.5611	99.10	
PCB-188	37:08	379875	1.15	1.1350	5.023	5.023	0.000344	0.000344	100	
PCB-179	37:28	381743	1.13	1.4276	4.852	4.852	0.000335	0.000335	97.05	
PCB-184	38:00	370448	1.07	1.3672	4.917	4.917	0.000350	0.000350	98.33	
PCB-176	38:22	331851	1.04	1.2331	4.884	4.884	0.000388	0.000388	97.67	
PCB-186	38:48	394382	1.02	1.4737	4.856	4.856	0.000324	0.000324	97.12	
PCB-178	40:11	246629	0.99	0.8946	5.002	5.002	0.000534	0.000534	100	
PCB-175	40:49	246187	1.15	0.9524	4.690	4.690	0.000502	0.000502	93.81	
PCB-187	41:06	296377	1.01	1.1018	4.881	4.881	0.000434	0.000434	97.62	
PCB-182	41:18	263009	1.09	0.9247	5.161	5.161	0.000517	0.000517	103	
PCB-183	41:42	505531	1.07	0.9825	9.337	9.337	0.000486	0.000486	93.37	M
PCB-185 (C183)	41:42	505531	1.07	0.9825	9.337	9.337	0.000486	0.000486	93.37	M
PCB-174	41:57	258926	1.06	0.9642	4.873	4.873	0.000496	0.000496	97.46	
PCB-177	42:23	265089	1.08	0.9773	4.922	4.922	0.000489	0.000489	98.44	
PCB-181	42:47	243089	1.05	0.9505	4.641	4.641	0.000503	0.000503	92.81	
PCB-171	43:00	465633	1.04	0.9336	9.050	9.050	0.000512	0.000512	90.50	
PCB-173 (C171)	43:00	465633	1.04	0.9336	9.050	9.050	0.000512	0.000512	90.50	
PCB-172	44:38	225866	1.17	0.8519	4.811	4.811	0.000561	0.000561	96.22	
PCB-192	44:54	366181	1.04	1.3459	4.937	4.937	0.000355	0.000355	98.74	
PCB-180	45:16	626627	1.04	1.1676	9.739	9.739	0.000409	0.000409	97.39	
PCB-193 (C180)	45:16	626627	1.04	1.1676	9.739	9.739	0.000409	0.000409	97.39	
PCB-191	45:39	348406	1.07	1.2891	4.904	4.904	0.000371	0.000371	98.09	
PCB-170	46:32	255223	0.99	1.1865	4.936	4.936	0.000520	0.000520	98.72	
PCB-190	47:03	364710	0.93	1.3322	4.968	4.968	0.000359	0.000359	99.35	M
PCB-189	49:39	493179	1.03	0.9633	5.002	5.002	0.0480	0.0480	100	
S Total Octachlorobiphenyls					59.1	59.1	0.0197	0.0197		
D PCB-202L	42:29	5089577	0.93	0.9818	103.3	103.3	0.0178	0.0178	103	
* PCB-194L	51:44	7166011	0.90		100.0	100.0				
D PCB-205L	52:13	8416261	0.91	1.1786	99.7	99.7	0.0711	0.0711	99.65	
PCB-202	42:31	264468	0.89	1.0359	5.016	5.016	0.004491	0.004491	100	
PCB-201	43:25	242194	0.97	0.9754	4.879	4.879	0.004770	0.004770	97.58	
PCB-204	44:06	259683	0.88	1.0485	4.866	4.866	0.004437	0.004437	97.32	
PCB-197	44:21	278144	0.86	1.1458	4.770	4.770	0.004060	0.004060	95.39	
PCB-200	44:26	264690	0.94	1.0072	5.164	5.164	0.004619	0.004619	103	
PCB-198	47:13	430393	0.87	0.8698	9.722	9.722	0.005349	0.005349	97.22	
PCB-199 (C198)	47:13	430393	0.87	0.8698	9.722	9.722	0.005349	0.005349	97.22	
PCB-196	47:54	198979	0.93	0.7806	5.008	5.008	0.005959	0.005959	100	
PCB-203	48:05	235807	0.96	0.9292	4.986	4.986	0.005007	0.005007	99.72	
PCB-195	49:25	348250	0.94	0.8263	5.008	5.008	0.0683	0.0683	100	
PCB-194	51:46	394237	0.95	0.9735	4.812	4.812	0.0580	0.0580	96.23	
PCB-205	52:13	448246	0.92	1.0878	4.896	4.896	0.0519	0.0519	97.93	
S Total Nonachlorobiphenyls					14.7	14.7	0.1588	0.1588		
D PCB-208L	49:10	6859651	0.81	0.9576	100.0	100.0	0.1907	0.1907	99.96	
D PCB-206L	53:58	5024711	0.81	0.6947	100.9	100.9	0.2629	0.2629	101	
PCB-208	49:11	399575	0.79	1.1374	5.121	5.121	0.1522	0.1522	102	M
PCB-207	50:07	399296	0.78	1.3756	4.885	4.885	0.1458	0.1458	97.70	M
PCB-206	53:59	317426	0.77	1.3346	4.734	4.734	0.1785	0.1785	94.67	M
D PCB-209L	55:35	4889751	0.71	0.6669	102.3	102.3	0.0640	0.0640	102	
DCB Decachlorobiphenyl	55:37	273346	0.72	1.1004	5.080	5.080	0.0198	0.0198	102	
S Polychlorinated biphenyls, Total					1005.3	1005.3	0.0577	0.0577		

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

61L21668P\_00006

Units: uL



Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d  
Lims ID: IC L3  
Client ID:  
Sample Type: IC Calib Level: 3  
Inject. Date: 31-May-2024 18:00:00 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-003  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:27:15 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 31-May-2024 19:20:28

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:37	11:36	1	0.726	10057841	4100912	2713	6782	1512		
202.0766	11:37	11:36	1	0.726	3195947	1293770	1130	2825	1145	3.15(2.66-3.60)	
PCB-3L											
200.0795	13:47	13:46	1	0.861	9998734	3401591	2713	6782	1254		
202.0766	13:47	13:46	1	0.861	3156259	1070179	1130	2825	947	3.17(2.66-3.60)	
PCB-1											
188.0393	11:38	11:37	1	1.001	611259	245939	539	1347	456		
190.0363	11:38	11:37	1	1.001	184800	73986	190	475	389	3.31(2.66-3.60)	
PCB-2											
188.0393	13:37	13:36	1	0.989	579381	190781	539	1347	354		
190.0363	13:37	13:36	1	0.989	189016	62957	190	475	331	3.07(2.66-3.60)	
PCB-3											
188.0393	13:47	13:47	1	1.001	615081	211731	539	1347	393		
190.0363	13:47	13:47	1	1.001	184876	61561	190	475	324	3.33(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	0	0.877	3257949	1005892	607	1517	1657		
236.0376	14:02	14:02	0	0.877	2021083	640518	143	357	4479	1.61(1.33-1.79)	
PCB-9L											
234.0406	16:00	15:59	1		5160480	1490123	607	1517	2455		
236.0376	16:00	15:59	1		3182635	925024	143	357	6469	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	1	1.201	293687	71243	607	1517	117		M
236.0376	16:50	16:50	1	1.201	173668	43976	143	357	308	1.69(1.33-1.79)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:54	19:54	0	1.244	5436766	1281103	607	1517	2111		
236.0376	19:54	19:54	0	1.244	3369416	808128	143	357	5651	1.61(1.33-1.79)	
PCB-4											
222.0003	14:03	14:02	1	1.002	208778	67621	40	100	1691		
223.9974	14:03	14:02	1	1.002	128575	43034	96	240	448	1.62(1.33-1.79)	
PCB-10											
222.0003	14:13	14:13	0	1.013	296290	90628	40	100	2266		
223.9974	14:13	14:13	1	1.014	175545	53642	96	240	559	1.69(1.33-1.79)	
PCB-9											
222.0003	16:01	16:00	1	1.142	318843	94374	40	100	2359		
223.9974	16:01	16:00	1	1.142	195283	57100	96	240	595	1.63(1.33-1.79)	
PCB-7											
222.0003	16:11	16:10	1	1.154	290711	80729	40	100	2018		
223.9974	16:10	16:10	0	1.153	186130	49671	96	240	517	1.56(1.33-1.79)	
PCB-6											
222.0003	16:25	16:25	0	1.171	322293	89922	40	100	2248		
223.9974	16:25	16:25	0	1.171	195532	56301	96	240	586	1.65(1.33-1.79)	
PCB-5											
222.0003	16:43	16:43	0	1.192	278025	76844	40	100	1921		
223.9974	16:43	16:43	0	1.192	179454	50186	96	240	523	1.55(1.33-1.79)	
PCB-8											
222.0003	16:51	16:50	1	1.202	341074	94951	40	100	2374		
223.9974	16:51	16:50	1	1.202	211588	58210	96	240	606	1.61(1.33-1.79)	
PCB-14											
222.0003	18:28	18:28	1	0.928	301013	75875	40	100	1897		
223.9974	18:28	18:28	1	0.928	191899	48485	96	240	505	1.57(1.33-1.79)	
PCB-11											
222.0003	19:19	19:18	1	0.970	279665	67757	40	100	1694		
223.9974	19:19	19:18	1	0.970	173153	43370	96	240	452	1.62(1.33-1.79)	
PCB-12											
222.0003	19:37	19:36	1	0.985	576081	91223	40	100	2281		
223.9974	19:37	19:36	1	0.985	367376	62421	96	240	650	1.57(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:37	19:36	1	0.985	576081	91223	40	100	2281		
223.9974	19:37	19:36	1	0.985	367376	62421	96	240	650	1.57(1.33-1.79)	
PCB-15											
222.0003	19:56	19:55	1	1.001	342689	78810	40	100	1970		
223.9974	19:56	19:55	1	1.001	209597	47667	96	240	497	1.63(1.33-1.79)	
PCB-19L											
268.0016	17:08	17:08	0	0.840	1750048	474000	432	1080	1097		
269.9986	17:08	17:08	0	0.840	1639434	450604	931	2327	484	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:23	1		2738272	653918	432	1080	1514		
269.9986	20:24	20:23	1		2544022	632244	931	2327	679	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:39	22:38	1		7854722	1789792	784	1960	2283		
269.9986	22:39	22:38	1		7420482	1696801	308	770	5509	1.06(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	0	1.012	471644	101939	784	1960	130		
269.9986	22:56	22:56	0	1.012	458677	92446	308	770	300	1.03(0.88-1.20)	
PCB-37L											
268.0016	26:56	26:55	1	1.189	6766129	1364501	784	1960	1740		
269.9986	26:56	26:55	1	1.189	6348781	1273491	308	770	4135	1.07(0.88-1.20)	
PCB-19											
255.9613	17:09	17:09	1	1.002	117119	32603	58	145	562		
257.9584	17:09	17:09	1	1.002	98857	28343	19	47	1492	1.18(0.88-1.20)	
PCB-18											
255.9613	19:00	18:59	1	1.109	301119	59266	58	145	1022		
257.9584	18:59	18:59	0	1.108	287561	56176	19	47	2957	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:00	18:59	1	1.109	301119	59266	58	145	1022		
257.9584	18:59	18:59	0	1.108	287561	56176	19	47	2957	1.05(0.88-1.20)	
PCB-17											
255.9613	19:26	19:26	0	1.134	106250	27677	58	145	477		
257.9584	19:26	19:26	0	1.134	99914	23891	19	47	1257	1.06(0.88-1.20)	
PCB-27											
255.9613	19:39	19:39	1	1.147	166283	41594	58	145	717		
257.9584	19:39	19:39	1	1.147	144258	35494	19	47	1868	1.15(0.88-1.20)	
PCB-24											
255.9613	19:46	19:46	1	1.154	144776	39138	58	145	675		
257.9584	19:46	19:46	1	1.154	131683	31130	19	47	1638	1.10(0.88-1.20)	
PCB-16											
255.9613	19:54	19:53	1	1.161	97085	23764	58	145	410		
257.9584	19:54	19:53	1	1.161	92125	22662	19	47	1193	1.05(0.88-1.20)	
PCB-32											
255.9613	20:24	20:23	1	1.191	160625	37149	58	145	641		
257.9584	20:24	20:23	1	1.191	149433	35548	19	47	1871	1.07(0.88-1.20)	
PCB-34											
255.9613	21:40	21:39	1	1.265	376163	90530	541	1352	167		
257.9584	21:40	21:39	1	1.265	365785	90351	796	1990	114	1.03(0.88-1.20)	
PCB-23											
255.9613	21:49	21:48	0	1.273	362124	84557	541	1352	156		
257.9584	21:49	21:48	1	1.274	347900	85057	796	1990	107	1.04(0.88-1.20)	
PCB-26											
255.9613	22:08	22:08	0	1.292	725874	149187	541	1352	276		
257.9584	22:08	22:08	1	1.293	700309	145291	796	1990	183	1.04(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:08	22:08	0	1.292	725874	149187	541	1352	276		
257.9584	22:08	22:08	1	1.293	700309	145291	796	1990	183	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:22	22:21	1	0.830	416150	93553	541	1352	173		
257.9584	22:22	22:21	1	0.830	382063	86007	796	1990	108	1.09(0.88-1.20)	
PCB-31											
255.9613	22:40	22:40	0	0.841	383294	90540	541	1352	167		
257.9584	22:40	22:40	0	0.841	361680	90311	796	1990	113	1.06(0.88-1.20)	
PCB-20											
255.9613	22:58	22:58	0	0.853	759392	143646	541	1352	266		
257.9584	22:58	22:58	0	0.853	724429	135337	796	1990	170	1.05(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:58	0	0.853	759392	143646	541	1352	266		
257.9584	22:58	22:58	0	0.853	724429	135337	796	1990	170	1.05(0.88-1.20)	
PCB-21											
255.9613	23:08	23:07	1	0.859	720072	85196	541	1352	157		M
257.9584	23:08	23:07	1	0.859	683628	84601	796	1990	106	1.05(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:08	23:07	1	0.859	720072	85196	541	1352	157		M
257.9584	23:08	23:07	1	0.859	683628	84601	796	1990	106	1.05(0.88-1.20)	M
PCB-22											
255.9613	23:35	23:35	0	0.876	377463	80781	541	1352	149		
257.9584	23:36	23:35	1	0.876	362206	78952	796	1990	99	1.04(0.88-1.20)	
PCB-36											
255.9613	25:10	25:09	1	0.934	375707	72079	541	1352	133		
257.9584	25:10	25:09	1	0.934	355747	70158	796	1990	88	1.06(0.88-1.20)	
PCB-39											
255.9613	25:31	25:30	1	0.947	389975	83464	541	1352	154		
257.9584	25:30	25:30	0	0.947	370190	76330	796	1990	96	1.05(0.88-1.20)	
PCB-38											
255.9613	26:06	26:05	1	0.969	344389	71618	541	1352	132		
257.9584	26:05	26:05	0	0.968	335953	66695	796	1990	84	1.03(0.88-1.20)	
PCB-35											
255.9613	26:33	26:32	1	0.986	360533	69846	541	1352	129		
257.9584	26:33	26:32	1	0.986	360561	70952	796	1990	89	1.00(0.88-1.20)	
PCB-37											
255.9613	26:57	26:57	0	1.000	358978	71807	541	1352	133		
257.9584	26:57	26:57	0	1.000	364514	71310	796	1990	90	0.98(0.88-1.20)	
PCB-54L											
301.9626	20:12	20:12	0	0.816	1252154	304647	106	265	2874		M
303.9597	20:12	20:12	0	0.816	1551267	378908	25	62	15156	0.81(0.65-0.89)	M
PCB-52L											
301.9626	24:47	24:46	0		3402393	752939	510	1275	1476		
303.9597	24:47	24:46	0		4282417	941029	710	1775	1325	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:42	32:41	1	0.971	232703	44353	510	1275	87		
303.9597	32:42	32:41	1	0.971	271329	50496	710	1775	71	0.86(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:41	33:41	0	1.359	4182792	794399	510	1275	1558		
303.9597	33:41	33:41	0	1.359	5228529	997351	710	1775	1405	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:15	34:14	0	1.382	4525431	840769	510	1275	1649		
303.9597	34:15	34:14	0	1.382	5511208	1036946	710	1775	1460	0.82(0.65-0.89)	
PCB-54											
289.9224	20:14	20:13	1	1.000	86078	20816	6	15	3469		
291.9194	20:14	20:13	1	1.000	101723	25411	40	100	635	0.85(0.65-0.89)	
PCB-50											
289.9224	22:25	22:24	1	1.109	349447	70029	495	1237	141		
291.9194	22:25	22:24	1	1.109	448510	96431	666	1665	145	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:25	22:24	1	1.109	349447	70029	495	1237	141		
291.9194	22:25	22:24	1	1.109	448510	96431	666	1665	145	0.78(0.65-0.89)	
PCB-45											
289.9224	23:08	23:08	0	1.145	337953	44319	495	1237	90		M
291.9194	23:08	23:08	0	1.145	450602	57689	666	1665	87	0.75(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:08	23:08	0	1.145	337953	44319	495	1237	90		M
291.9194	23:08	23:08	0	1.145	450602	57689	666	1665	87	0.75(0.65-0.89)	M
PCB-46											
289.9224	23:23	23:22	1	1.157	152416	34946	495	1237	71		
291.9194	23:23	23:22	1	1.157	188358	45442	666	1665	68	0.81(0.65-0.89)	
PCB-52											
289.9224	24:48	24:47	1	1.227	190732	46476	495	1237	94		
291.9194	24:48	24:47	1	1.227	249097	56499	666	1665	85	0.77(0.65-0.89)	
PCB-43											
289.9224	24:57	24:56	0	1.234	423345	55176	495	1237	111		M
291.9194	24:57	24:56	0	1.234	551591	70896	666	1665	106	0.77(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:57	24:56	0	1.234	423345	55176	495	1237	111		M
291.9194	24:57	24:56	0	1.234	551591	70896	666	1665	106	0.77(0.65-0.89)	M
PCB-49											
289.9224	25:14	25:14	0	1.249	438512	68183	495	1237	138		
291.9194	25:14	25:14	0	1.249	564448	84437	666	1665	127	0.78(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:14	25:14	0	1.249	438512	68183	495	1237	138		
291.9194	25:14	25:14	0	1.249	564448	84437	666	1665	127	0.78(0.65-0.89)	
PCB-48											
289.9224	25:33	25:33	0	1.265	182905	40157	495	1237	81		
291.9194	25:33	25:33	0	1.265	218889	45951	666	1665	69	0.84(0.65-0.89)	
PCB-44											
289.9224	25:48	25:48	0	1.277	590396	103100	495	1237	208		
291.9194	25:48	25:48	0	1.277	753852	131966	666	1665	198	0.78(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:48	25:48	0	1.277	590396	103100	495	1237	208		
291.9194	25:48	25:48	0	1.277	753852	131966	666	1665	198	0.78(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:48	25:48	0	1.277	590396	103100	495	1237	208		
291.9194	25:48	25:48	0	1.277	753852	131966	666	1665	198	0.78(0.65-0.89)	
PCB-59											
289.9224	26:07	26:06	1	1.293	702045	101885	495	1237	206		
291.9194	26:06	26:06	0	1.292	895913	126740	666	1665	190	0.78(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:07	26:06	1	1.293	702045	101885	495	1237	206		
291.9194	26:06	26:06	0	1.292	895913	126740	666	1665	190	0.78(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:07	26:06	1	1.293	702045	101885	495	1237	206		
291.9194	26:06	26:06	0	1.292	895913	126740	666	1665	190	0.78(0.65-0.89)	
PCB-42											
289.9224	26:19	26:18	1	1.303	168333	35093	495	1237	71		
291.9194	26:19	26:18	1	1.303	230321	47146	666	1665	71	0.73(0.65-0.89)	
PCB-40											
289.9224	26:49	26:48	0	1.327	536815	83423	495	1237	169		M
291.9194	26:49	26:48	0	1.327	706287	104766	666	1665	157	0.76(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:49	26:48	0	1.327	536815	83423	495	1237	169		M
291.9194	26:49	26:48	0	1.327	706287	104766	666	1665	157	0.76(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:49	26:48	0	1.327	536815	83423	495	1237	169		M
291.9194	26:49	26:48	0	1.327	706287	104766	666	1665	157	0.76(0.65-0.89)	M
PCB-64											
289.9224	27:02	27:01	1	1.338	239365	52530	495	1237	106		
291.9194	27:02	27:01	1	1.338	310296	66835	666	1665	100	0.77(0.65-0.89)	
PCB-72											
289.9224	27:52	27:51	0	0.827	244916	51285	495	1237	104		
291.9194	27:52	27:51	1	0.828	283932	62962	666	1665	95	0.86(0.65-0.89)	
PCB-68											
289.9224	28:09	28:09	0	0.836	277293	56694	495	1237	115		
291.9194	28:09	28:09	0	0.836	341572	68869	666	1665	103	0.81(0.65-0.89)	
PCB-57											
289.9224	28:35	28:34	1	0.848	227257	45523	495	1237	92		
291.9194	28:35	28:34	1	0.848	288014	60702	666	1665	91	0.79(0.65-0.89)	
PCB-58											
289.9224	28:49	28:48	1	0.856	273402	56373	495	1237	114		
291.9194	28:49	28:48	1	0.856	365508	73610	666	1665	111	0.75(0.65-0.89)	
PCB-67											
289.9224	28:58	28:58	0	0.860	296615	57715	495	1237	117		
291.9194	28:58	28:58	0	0.860	366340	69216	666	1665	104	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:14	29:14	1	0.868	237799	45285	495	1237	91		
291.9194	29:14	29:14	1	0.868	306967	64033	666	1665	96	0.77(0.65-0.89)	
PCB-61											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:34	29:34	0	0.878	1056982	119547	495	1237	242		M
291.9194	29:34	29:34	0	0.878	1294324	148196	666	1665	223	0.82(0.65-0.89)	M
PCB-66											
289.9224	29:54	29:53	1	0.888	266136	52281	495	1237	106		
291.9194	29:54	29:53	0	0.888	334857	69429	666	1665	104	0.79(0.65-0.89)	
PCB-55											
289.9224	30:04	30:03	1	0.892	282242	56944	495	1237	115		
291.9194	30:04	30:03	1	0.892	347842	74275	666	1665	112	0.81(0.65-0.89)	
PCB-56											
289.9224	30:34	30:33	1	0.908	258842	53078	495	1237	107		M
291.9194	30:34	30:33	1	0.908	318235	66404	666	1665	100	0.81(0.65-0.89)	M
PCB-60											
289.9224	30:47	30:46	0	0.914	228596	47611	495	1237	96		
291.9194	30:47	30:46	1	0.914	282203	54459	666	1665	82	0.81(0.65-0.89)	
PCB-80											
289.9224	31:12	31:11	1	0.926	281507	52839	495	1237	107		
291.9194	31:12	31:11	1	0.926	337086	68438	666	1665	103	0.84(0.65-0.89)	
PCB-79											
289.9224	32:43	32:42	1	0.971	289310	52307	495	1237	106		
291.9194	32:43	32:42	1	0.971	366521	66349	666	1665	100	0.79(0.65-0.89)	
PCB-78											
289.9224	33:16	33:15	0	0.987	240561	46623	495	1237	94		M
291.9194	33:16	33:15	1	0.988	311315	58034	666	1665	87	0.77(0.65-0.89)	M
PCB-81											
289.9224	33:42	33:42	0	1.001	221876	44931	495	1237	91		M
291.9194	33:42	33:42	0	1.001	277706	53242	666	1665	80	0.80(0.65-0.89)	M
PCB-77											
289.9224	34:16	34:16	0	1.001	236724	43605	495	1237	88		
291.9194	34:16	34:16	0	1.001	283405	57023	666	1665	86	0.84(0.65-0.89)	
PCB-104L											
337.9207	25:43	25:42	0	0.813	3881748	846069	48	120	17626		
339.9178	25:43	25:42	0	0.813	2425553	526811	78	195	6754	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:41	28:41	0	1.115	147567	30011	48	120	625		
339.9178	28:41	28:41	0	1.115	86907	17374	78	195	223	1.70(1.32-1.78)	
PCB-101L											
337.9207	31:37	31:37	0		3082346	624295	48	120	13006		
339.9178	31:37	31:37	0		1926429	385938	78	195	4948	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:18	34:17	1	1.085	242976	48695	48	120	1014		
339.9178	34:18	34:17	1	1.085	151339	30118	78	195	386	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	1	1.147	5721133	1109523	5300	13250	209		
339.9178	36:15	36:15	1	1.147	3600829	698691	3281	8202	213	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:35	36:34	1	1.157	6092251	1157981	5300	13250	218		
339.9178	36:35	36:34	1	1.157	3855934	740169	3281	8202	226	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	1	1.174	5794168	1134432	5300	13250	214		
339.9178	37:07	37:06	1	1.174	3593450	696833	3281	8202	212	1.61(1.32-1.78)	
PCB-105L											
337.9207	37:45	37:45	1	1.194	5589374	1048617	5300	13250	198		
339.9178	37:45	37:45	1	1.194	3498501	668548	3281	8202	204	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:14	39:14	1		5780307	1112193	5300	13250	210		
339.9178	39:14	39:14	1		3605190	693455	3281	8202	211	1.60(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:50	1	1.292	5507935	1037098	5300	13250	196		
339.9178	40:51	40:50	1	1.292	3437700	644438	3281	8202	196	1.60(1.32-1.78)	
PCB-104											
325.8804	25:44	25:44	0	1.001	186976	43535	7	17	6219		
327.8775	25:45	25:44	1	1.001	119074	25392	8	20	3174	1.57(1.32-1.78)	
PCB-96											
325.8804	26:06	26:06	0	1.015	211295	44931	7	17	6419		
327.8775	26:06	26:06	0	1.015	127376	29456	8	20	3682	1.66(1.32-1.78)	
PCB-103											
325.8804	28:03	28:02	1	1.091	169216	36556	7	17	5222		
327.8775	28:02	28:02	0	1.091	103507	22398	8	20	2800	1.63(1.32-1.78)	
PCB-94											
325.8804	28:15	28:16	-1	1.099	146664	28127	7	17	4018		
327.8775	28:17	28:16	1	1.100	96690	20752	8	20	2594	1.52(1.32-1.78)	
PCB-95											
325.8804	28:42	28:42	0	1.116	153284	31365	7	17	4481		
327.8775	28:43	28:42	1	1.117	94034	19388	8	20	2424	1.63(1.32-1.78)	
PCB-93											
325.8804	28:56	28:55	1	1.125	308618	62117	7	17	8874		
327.8775	28:55	28:55	0	1.125	199859	39477	8	20	4935	1.54(1.32-1.78)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:56	28:55	1	1.125	308618	62117	7	17	8874		
327.8775	28:55	28:55	0	1.125	199859	39477	8	20	4935	1.54(1.32-1.78)	
PCB-98											
325.8804	29:05	29:04	1	1.131	327154	40323	7	17	5760		M
327.8775	29:07	29:04	2	1.132	199350	23698	8	20	2962	1.64(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:05	29:04	1	1.131	327154	40323	7	17	5760		M
327.8775	29:07	29:04	2	1.132	199350	23698	8	20	2962	1.64(1.32-1.78)	M
PCB-88											
325.8804	29:28	29:33	-5	1.146	306322	35360	7	17	5051		M
327.8775	29:28	29:33	-5	1.146	191203	22183	8	20	2773	1.60(1.32-1.78)	M
PCB-91 (C88)											
325.8804	29:28	29:33	-5	1.146	306322	35360	7	17	5051		M
327.8775	29:28	29:33	-5	1.146	191203	22183	8	20	2773	1.60(1.32-1.78)	M
PCB-84											
325.8804	29:47	29:47	0	1.159	139124	31137	7	17	4448		
327.8775	29:48	29:47	1	1.159	86613	15623	8	20	1953	1.61(1.32-1.78)	
PCB-89											
325.8804	30:17	30:16	1	1.178	150039	30987	7	17	4427		
327.8775	30:17	30:16	1	1.178	95497	19480	8	20	2435	1.57(1.32-1.78)	
PCB-121											
325.8804	30:41	30:41	0	1.194	254278	49012	7	17	7002		
327.8775	30:41	30:41	0	1.194	152487	33141	8	20	4143	1.67(1.32-1.78)	
PCB-92											
325.8804	31:03	31:03	0	0.857	161862	31924	7	17	4561		
327.8775	31:03	31:03	0	0.857	99001	18723	8	20	2340	1.63(1.32-1.78)	
PCB-90											
325.8804	31:38	31:37	1	1.230	515884	71571	7	17	10224		
327.8775	31:37	31:37	0	1.230	338107	49260	8	20	6158	1.53(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:38	31:37	1	1.230	515884	71571	7	17	10224		
327.8775	31:37	31:37	0	1.230	338107	49260	8	20	6158	1.53(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:38	31:37	1	1.230	515884	71571	7	17	10224		
327.8775	31:37	31:37	0	1.230	338107	49260	8	20	6158	1.53(1.32-1.78)	
PCB-83											
325.8804	32:13	32:13	0	1.253	315858	39228	7	17	5604		M
327.8775	32:14	32:13	1	1.254	213034	26549	8	20	3319	1.48(1.32-1.78)	M
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.253	315858	39228	7	17	5604		M
327.8775	32:14	32:13	1	1.254	213034	26549	8	20	3319	1.48(1.32-1.78)	M
PCB-112											
325.8804	32:20	32:20	0	1.258	276124	52961	7	17	7566		
327.8775	32:20	32:20	0	1.258	161358	32769	8	20	4096	1.71(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:42	32:42	0	1.272	1133108	122947	7	17	17564		M
327.8775	32:42	32:42	0	1.272	713670	75834	8	20	9479	1.59(1.32-1.78)	M
PCB-85											M
325.8804	33:26	33:25	1	1.301	572951	68989	7	17	9856		M
327.8775	33:25	33:25	0	1.300	365388	44101	8	20	5513	1.57(1.32-1.78)	M
PCB-116 (C85)											M
325.8804	33:26	33:25	1	1.301	572951	68989	7	17	9856		M
327.8775	33:25	33:25	0	1.300	365388	44101	8	20	5513	1.57(1.32-1.78)	M
PCB-117 (C85)											M
325.8804	33:26	33:25	1	1.301	572951	68989	7	17	9856		M
327.8775	33:25	33:25	0	1.300	365388	44101	8	20	5513	1.57(1.32-1.78)	M
PCB-110											M
325.8804	33:38	33:37	1	1.308	450836	56423	7	17	8060		M
327.8775	33:37	33:37	0	1.308	283256	35316	8	20	4415	1.59(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:38	33:37	1	1.308	450836	56423	7	17	8060		M
327.8775	33:37	33:37	0	1.308	283256	35316	8	20	4415	1.59(1.32-1.78)	M
PCB-82											
325.8804	33:56	33:55	1	1.320	154740	30208	7	17	4315		
327.8775	33:56	33:55	1	1.320	102893	18521	8	20	2315	1.50(1.32-1.78)	
PCB-111											
325.8804	34:20	34:19	1	1.335	231300	43572	7	17	6225		
327.8775	34:20	34:19	1	1.335	135627	27334	8	20	3417	1.71(1.32-1.78)	
PCB-120											
325.8804	34:48	34:47	1	1.353	277232	56635	7	17	8091		
327.8775	34:47	34:47	0	1.353	169266	31899	8	20	3987	1.64(1.32-1.78)	
PCB-108											
325.8804	35:56	35:55	1	1.397	633210	120591	457	1142	264		
327.8775	35:56	35:55	1	1.397	400852	82829	489	1222	169	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:56	35:55	1	1.397	633210	120591	457	1142	264		
327.8775	35:56	35:55	1	1.397	400852	82829	489	1222	169	1.58(1.32-1.78)	
PCB-107											
325.8804	36:11	36:09	1	1.407	347753	64872	457	1142	142		
327.8775	36:11	36:09	1	1.407	228528	39698	489	1222	81	1.52(1.32-1.78)	
PCB-123											
325.8804	36:17	36:16	1	1.001	269548	57290	457	1142	125		
327.8775	36:17	36:16	1	1.001	175101	38086	489	1222	78	1.54(1.32-1.78)	
PCB-106											
325.8804	36:24	36:23	1	1.004	301102	59410	457	1142	130		
327.8775	36:24	36:23	1	1.004	200370	37243	489	1222	76	1.50(1.32-1.78)	
PCB-118											
325.8804	36:37	36:36	1	1.001	354441	65239	457	1142	143		
327.8775	36:37	36:36	1	1.001	225168	40733	489	1222	83	1.57(1.32-1.78)	
PCB-122											
325.8804	36:57	36:56	1	1.010	248046	48486	457	1142	106		
327.8775	36:58	36:56	1	1.010	168706	33212	489	1222	68	1.47(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	1	1.001	292014	54549	457	1142	119		
327.8775	37:08	37:08	1	1.001	204681	36808	489	1222	75	1.43(1.32-1.78)	
PCB-105											
325.8804	37:47	37:46	1	1.001	313087	53355	457	1142	117		M
327.8775	37:47	37:46	1	1.001	200314	35951	489	1222	74	1.56(1.32-1.78)	M
PCB-127											
325.8804	39:15	39:15	1	1.040	305265	60531	457	1142	132		M
327.8775	39:16	39:15	1	1.040	200669	36418	489	1222	74	1.52(1.32-1.78)	M
PCB-126											
325.8804	40:51	40:52	0	1.000	294816	50918	457	1142	111		
327.8775	40:52	40:52	1	1.001	188423	29809	489	1222	61	1.56(1.32-1.78)	
PCB-155L											
371.8817	31:23	31:23	0	0.790	3191945	653123	101	252	6467		
373.8788	31:23	31:23	0	0.790	2516693	521851	55	137	9488	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:28	38:27	1	0.901	249993	46907	3297	8242	14		
373.8788	38:29	38:27	1	0.901	194763	37560	246	615	153	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:41	1		3594734	673228	3297	8242	204		
373.8788	39:43	39:41	1		2836869	542464	246	615	2205	1.27(1.05-1.43)	
PCB-159L											
371.8817	41:57	41:56	1	0.982	4130110	775457	3297	8242	235		
373.8788	41:57	41:56	1	0.982	3171044	598343	246	615	2432	1.30(0.00-0.00)	
PCB-167L											
371.8817	42:43	42:42	1	1.076	4598262	869516	3297	8242	264		
373.8788	42:43	42:42	1	1.076	3552121	672708	246	615	2735	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:52	43:51	1	1.105	8996966	1204979	3297	8242	365		
373.8788	43:52	43:51	1	1.105	6997869	939579	246	615	3819	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:52	43:51	1	1.105	8996966	1204979	3297	8242	365		
373.8788	43:52	43:51	1	1.105	6997869	939579	246	615	3819	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:06	47:05	1	1.186	4415953	782684	3297	8242	237		
373.8788	47:06	47:05	1	1.186	3428332	614023	246	615	2496	1.29(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	0	1.001	146365	30837	19	47	1623		
361.8385	31:25	31:25	0	1.001	123487	25890	7	17	3699	1.19(1.05-1.43)	
PCB-152											
359.8415	31:37	31:36	2	1.007	155611	29885	19	47	1573		
361.8385	31:37	31:36	1	1.007	124834	25329	7	17	3618	1.25(1.05-1.43)	
PCB-150											
359.8415	31:47	31:46	1	1.013	159363	32797	19	47	1726		
361.8385	31:47	31:46	1	1.013	133526	28760	7	17	4109	1.19(1.05-1.43)	
PCB-136											
359.8415	32:09	32:08	1	1.024	156399	31550	19	47	1661		
361.8385	32:08	32:08	0	1.024	114399	22324	7	17	3189	1.37(1.05-1.43)	
PCB-145											
359.8415	32:26	32:25	1	1.033	158361	28358	19	47	1493		
361.8385	32:26	32:25	1	1.033	116672	23514	7	17	3359	1.36(1.05-1.43)	
PCB-148											
359.8415	33:58	33:57	1	1.082	124180	24345	19	47	1281		
361.8385	33:57	33:57	0	1.082	90881	18932	7	17	2705	1.37(1.05-1.43)	
PCB-135											
359.8415	34:35	34:32	3	1.101	230863	27281	19	47	1436		
361.8385	34:36	34:32	4	1.102	172339	20433	7	17	2919	1.34(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:35	34:32	3	1.101	230863	27281	19	47	1436		
361.8385	34:36	34:32	4	1.102	172339	20433	7	17	2919	1.34(1.05-1.43)	
PCB-154											
359.8415	34:48	34:47	0	1.108	129876	24249	19	47	1276		
361.8385	34:48	34:47	1	1.109	98346	19667	7	17	2810	1.32(1.05-1.43)	
PCB-144											
359.8415	35:06	35:06	0	1.118	122737	25173	19	47	1325		
361.8385	35:06	35:06	0	1.118	94988	20050	7	17	2864	1.29(1.05-1.43)	
PCB-147											
359.8415	35:28	35:27	1	1.130	381464	74872	121	302	619		
361.8385	35:28	35:27	1	1.130	293688	56956	163	407	349	1.30(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:28	35:27	1	1.130	381464	74872	121	302	619		
361.8385	35:28	35:27	1	1.130	293688	56956	163	407	349	1.30(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:46	35:45	1	1.139	353767	37506	121	302	310		
361.8385	35:46	35:45	1	1.139	286849	28767	163	407	176	1.23(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:46	35:45	1	1.139	353767	37506	121	302	310		
361.8385	35:46	35:45	1	1.139	286849	28767	163	407	176	1.23(1.05-1.43)	
PCB-139											
359.8415	36:03	36:04	0	1.149	374008	66042	121	302	546		
361.8385	36:03	36:04	0	1.149	299520	54635	163	407	335	1.25(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:03	36:04	0	1.149	374008	66042	121	302	546		
361.8385	36:03	36:04	0	1.149	299520	54635	163	407	335	1.25(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	0	1.155	167426	32344	121	302	267		
361.8385	36:15	36:15	0	1.155	122239	24629	163	407	151	1.37(1.05-1.43)	
PCB-142											
359.8415	36:24	36:24	0	1.160	160770	32238	121	302	266		
361.8385	36:24	36:24	0	1.160	140396	27366	163	407	168	1.15(1.05-1.43)	
PCB-132											
359.8415	36:45	36:43	1	1.171	168533	30042	121	302	248		
361.8385	36:44	36:43	1	1.170	132045	26582	163	407	163	1.28(1.05-1.43)	
PCB-133											
359.8415	37:14	37:14	0	1.186	181369	34481	121	302	285		
361.8385	37:14	37:14	1	1.186	146764	27536	163	407	169	1.24(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	1	0.881	230109	43848	121	302	362		
361.8385	37:37	37:37	1	0.881	178310	35310	163	407	217	1.29(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	0	0.887	208795	44241	121	302	366		
361.8385	37:52	37:52	0	0.887	169864	33969	163	407	208	1.23(1.05-1.43)	
PCB-161											
359.8415	38:01	38:00	1	0.890	245903	49523	121	302	409		
361.8385	38:00	38:00	1	0.890	192907	36042	163	407	221	1.27(1.05-1.43)	
PCB-153											
359.8415	38:31	38:30	1	0.902	500662	70429	121	302	582		
361.8385	38:31	38:30	1	0.902	392845	56970	163	407	350	1.27(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:31	38:30	1	0.902	500662	70429	121	302	582		
361.8385	38:31	38:30	1	0.902	392845	56970	163	407	350	1.27(1.05-1.43)	
PCB-141											
359.8415	38:41	38:41	1	0.906	191260	36313	121	302	300		
361.8385	38:41	38:41	1	0.906	147202	27486	163	407	169	1.30(1.05-1.43)	
PCB-130											
359.8415	39:06	39:05	1	0.915	159580	30854	121	302	255		
361.8385	39:05	39:05	0	0.915	119653	24028	163	407	147	1.33(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:18	39:18	1	0.920	178439	33642	121	302	278		
361.8385	39:19	39:18	1	0.921	140011	24900	163	407	153	1.27(1.05-1.43)	
PCB-164											
359.8415	39:26	39:26	1	0.923	225567	43573	121	302	360		
361.8385	39:25	39:26	0	0.923	175238	35230	163	407	216	1.29(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	1	0.930	820981	94717	121	302	783		M
361.8385	39:45	39:44	1	0.931	652288	70975	163	407	435	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:07	40:07	1	0.939	279147	50086	121	302	414		
361.8385	40:08	40:07	1	0.940	230815	41052	163	407	252	1.21(1.05-1.43)	
PCB-128											
359.8415	40:58	40:57	1	0.959	407125	61166	121	302	506		
361.8385	40:59	40:57	1	0.959	340783	47990	163	407	294	1.19(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:58	40:57	1	0.959	407125	61166	121	302	506		
361.8385	40:59	40:57	1	0.959	340783	47990	163	407	294	1.19(1.05-1.43)	
PCB-159											
359.8415	41:59	41:58	1	0.983	313916	56405	121	302	466		
361.8385	41:58	41:58	0	0.982	244148	44216	163	407	271	1.29(1.05-1.43)	
PCB-162											
359.8415	42:16	42:15	1	0.990	282117	47612	121	302	393		
361.8385	42:16	42:15	1	0.990	231552	42164	163	407	259	1.22(1.05-1.43)	
PCB-167											
359.8415	42:44	42:44	1	1.001	258895	46328	121	302	383		
361.8385	42:44	42:44	1	1.001	206072	36518	163	407	224	1.26(1.05-1.43)	
PCB-156											
359.8415	43:54	43:53	1	1.001	497271	68641	121	302	567		
361.8385	43:54	43:53	1	1.001	389200	53441	163	407	328	1.28(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:54	43:53	1	1.001	497271	68641	121	302	567		
361.8385	43:54	43:53	1	1.001	389200	53441	163	407	328	1.28(1.05-1.43)	
PCB-169											
359.8415	47:07	47:06	1	1.000	245688	38852	121	302	321		
361.8385	47:08	47:06	1	1.001	207250	34606	163	407	212	1.19(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:07	37:07	0	0.820	3447773	664072	119	297	5580		
407.8398	37:07	37:07	0	0.820	3216264	618371	47	117	13157	1.07(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:10	0	0.887	152992	29193	119	297	245		
407.8398	40:11	40:10	1	0.888	137787	24843	47	117	529	1.11(0.89-1.21)	
PCB-180L											
405.8428	45:16	45:15	1		2568451	479811	119	297	4032		
407.8398	45:16	45:15	1		2451547	473161	47	117	10067	1.05(0.89-1.21)	
PCB-170L											
405.8428	46:31	46:30	1	1.028	2246991	415071	119	297	3488		
407.8398	46:31	46:30	1	1.028	2110843	394734	47	117	8399	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:38	49:37	1	1.096	5256701	939463	2325	5812	404		
407.8398	49:38	49:37	1	1.096	4979067	891104	1882	4705	473	1.06(0.89-1.21)	
PCB-188											
393.8025	37:08	37:08	0	1.001	202957	39936	1	2	39936		
395.7995	37:08	37:08	0	1.001	176918	34955	1	2	34955	1.15(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	202144	37551	1	2	37551		
395.7995	37:29	37:28	1	1.010	179599	34060	1	2	34060	1.13(0.89-1.21)	
PCB-184											
393.8025	38:00	38:00	1	1.024	191423	36695	1	2	36695		
395.7995	38:00	38:00	1	1.024	179025	35487	1	2	35487	1.07(0.89-1.21)	
PCB-176											
393.8025	38:22	38:21	1	1.034	169137	31683	1	2	31683		
395.7995	38:22	38:21	1	1.034	162714	30208	1	2	30208	1.04(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	1	1.046	199536	38220	1	2	38220		
395.7995	38:48	38:48	1	1.046	194846	39879	1	2	39879	1.02(0.89-1.21)	
PCB-178											
393.8025	40:11	40:11	0	1.083	122987	24074	1	2	24074		
395.7995	40:12	40:11	1	1.083	123642	23892	1	2	23892	0.99(0.89-1.21)	
PCB-175											
393.8025	40:49	40:49	0	1.100	131749	25500	1	2	25500		
395.7995	40:50	40:49	1	1.100	114438	23444	1	2	23444	1.15(0.89-1.21)	
PCB-187											
393.8025	41:06	41:05	1	1.107	149004	27678	1	2	27678		
395.7995	41:06	41:05	1	1.108	147373	24964	1	2	24964	1.01(0.89-1.21)	
PCB-182											
393.8025	41:18	41:18	1	1.113	137354	24767	1	2	24767		
395.7995	41:18	41:18	1	1.113	125655	23124	1	2	23124	1.09(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	261270	27747	1	2	27747		M
395.7995	41:42	41:42	0	1.124	244261	26436	1	2	26436	1.07(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											M
393.8025	41:42	41:42	0	1.124	261270	27747	1	2	27747		
395.7995	41:42	41:42	0	1.124	244261	26436	1	2	26436	1.07(0.89-1.21)	M
PCB-174											
393.8025	41:57	41:56	1	1.130	133000	23832	1	2	23832		
395.7995	41:57	41:56	1	1.130	125926	23720	1	2	23720	1.06(0.89-1.21)	
PCB-177											
393.8025	42:23	42:22	1	1.142	137500	23996	1	2	23996		
395.7995	42:23	42:22	1	1.142	127589	22906	1	2	22906	1.08(0.89-1.21)	
PCB-181											
393.8025	42:47	42:45	1	1.153	124663	21505	1	2	21505		
395.7995	42:46	42:45	1	1.152	118426	24242	1	2	24242	1.05(0.89-1.21)	
PCB-171											
393.8025	43:00	42:59	1	1.159	237291	39486	1	2	39486		
395.7995	43:00	42:59	1	1.159	228342	36877	1	2	36877	1.04(0.89-1.21)	
PCB-173 (C171)											
393.8025	43:00	42:59	1	1.159	237291	39486	1	2	39486		
395.7995	43:00	42:59	1	1.159	228342	36877	1	2	36877	1.04(0.89-1.21)	
PCB-172											
393.8025	44:38	44:37	1	0.899	121992	23675	1	2	23675		
395.7995	44:38	44:37	1	0.899	103874	19415	1	2	19415	1.17(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	1	0.905	186600	36146	1	2	36146		
395.7995	44:54	44:54	1	0.905	179581	36080	1	2	36080	1.04(0.89-1.21)	
PCB-180											
393.8025	45:16	45:14	1	0.912	318982	42811	1	2	42811		
395.7995	45:15	45:14	1	0.912	307645	41260	1	2	41260	1.04(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:16	45:14	1	0.912	318982	42811	1	2	42811		
395.7995	45:15	45:14	1	0.912	307645	41260	1	2	41260	1.04(0.89-1.21)	
PCB-191											
393.8025	45:39	45:37	1	0.920	179746	34821	1	2	34821		
395.7995	45:39	45:37	1	0.920	168660	29422	1	2	29422	1.07(0.89-1.21)	
PCB-170											
393.8025	46:32	46:32	1	0.938	126748	23322	1	2	23322		
395.7995	46:32	46:32	1	0.938	128475	25370	1	2	25370	0.99(0.89-1.21)	
PCB-190											M
393.8025	47:03	47:02	1	0.948	175590	31319	1	2	31319		M
395.7995	47:03	47:02	1	0.948	189120	35074	1	2	35074	0.93(0.89-1.21)	
PCB-189											
393.8025	49:39	49:38	1	1.001	249756	43600	171	427	255		
395.7995	49:39	49:38	1	1.001	243423	44158	168	420	263	1.03(0.89-1.21)	
PCB-202L											
439.8038	42:29	42:28	1	0.821	2457625	465504	42	105	11083		
441.8008	42:29	42:28	1	0.821	2631952	501789	25	62	20072	0.93(0.76-1.02)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:44	51:43	1		3403544	611705	258	645	2371		
441.8008	51:44	51:43	1		3762467	688622	178	445	3869	0.90(0.76-1.02)	
PCB-205L											
439.8038	52:13	52:11	1	1.009	4010000	709263	258	645	2749		
441.8008	52:12	52:11	1	1.009	4406261	783240	178	445	4400	0.91(0.76-1.02)	
PCB-202											
427.7635	42:31	42:29	1	1.001	124170	24684	1	2	24684		
429.7606	42:31	42:29	1	1.001	140298	26902	17	42	1582	0.89(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	1	1.022	118945	23475	1	2	23475		
429.7606	43:26	43:25	1	1.022	123249	23673	17	42	1393	0.97(0.76-1.02)	
PCB-204											
427.7635	44:06	44:05	1	1.038	121461	23572	1	2	23572		
429.7606	44:06	44:05	1	1.038	138222	26378	17	42	1552	0.88(0.76-1.02)	
PCB-197											
427.7635	44:21	44:19	1	1.044	128656	23432	1	2	23432		
429.7606	44:20	44:19	1	1.043	149488	28548	17	42	1679	0.86(0.76-1.02)	
PCB-200											
427.7635	44:26	44:25	1	1.046	128324	22713	1	2	22713		
429.7606	44:26	44:25	1	1.046	136366	25818	17	42	1519	0.94(0.76-1.02)	
PCB-198											
427.7635	47:13	47:12	1	1.111	200389	24926	1	2	24926		
429.7606	47:14	47:12	2	1.112	230004	28366	17	42	1669	0.87(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:13	47:12	1	1.111	200389	24926	1	2	24926		
429.7606	47:14	47:12	2	1.112	230004	28366	17	42	1669	0.87(0.76-1.02)	
PCB-196											
427.7635	47:54	47:53	1	0.917	95919	19254	1	2	19254		
429.7606	47:54	47:53	1	0.918	103060	20974	17	42	1234	0.93(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	1	0.921	115314	21075	1	2	21075		
429.7606	48:05	48:05	1	0.921	120493	22479	17	42	1322	0.96(0.76-1.02)	
PCB-195											
427.7635	49:25	49:23	1	0.946	169023	30667	149	372	206		
429.7606	49:25	49:23	1	0.946	179227	32664	188	470	174	0.94(0.76-1.02)	
PCB-194											
427.7635	51:46	51:44	1	0.991	191844	37266	149	372	250		
429.7606	51:46	51:44	1	0.991	202393	36860	188	470	196	0.95(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	1	1.000	215128	37851	149	372	254		
429.7606	52:13	52:13	1	1.000	233118	42488	188	470	226	0.92(0.76-1.02)	
PCB-208L											
473.7648	49:10	49:09	1	0.950	3068462	547353	455	1137	1203		
475.7619	49:09	49:09	1	0.950	3791189	695937	495	1237	1406	0.81(0.65-0.89)	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:58	53:57	1	1.043	2249970	404384	455	1137	889		
475.7619	53:58	53:57	1	1.043	2774741	498983	495	1237	1008	0.81(0.65-0.89)	
PCB-208											
461.7246	49:11	49:10	1	1.001	176905	32074	246	615	130		M
463.7216	49:11	49:10	1	1.000	222670	41885	615	1537	68	0.79(0.65-0.89)	M
PCB-207											
461.7246	50:07	50:05	1	1.019	175538	32184	246	615	131		M
463.7216	50:06	50:05	1	1.019	223758	40880	615	1537	66	0.78(0.65-0.89)	M
PCB-206											
461.7246	53:59	53:58	1	1.000	137945	24931	246	615	101		M
463.7216	53:59	53:58	1	1.000	179481	33079	615	1537	54	0.77(0.65-0.89)	M
PCB-209L											
507.7258	55:35	55:34	1	1.074	2024411	339274	109	272	3113		
509.7229	55:35	55:34	1	1.074	2865340	487443	113	282	4314	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:37	55:36	1	1.000	114777	18634	50	125	373		
497.6826	55:37	55:36	1	1.000	158569	25903	22	55	1177	0.72(0.59-0.79)	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61L21668P\_00006

Amount Added: 20.00

Units: uL

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

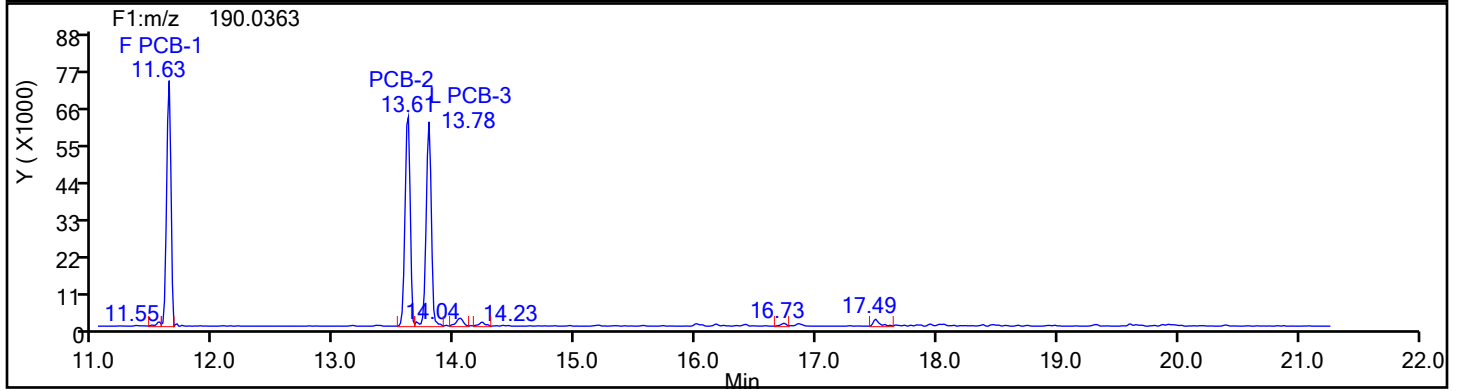
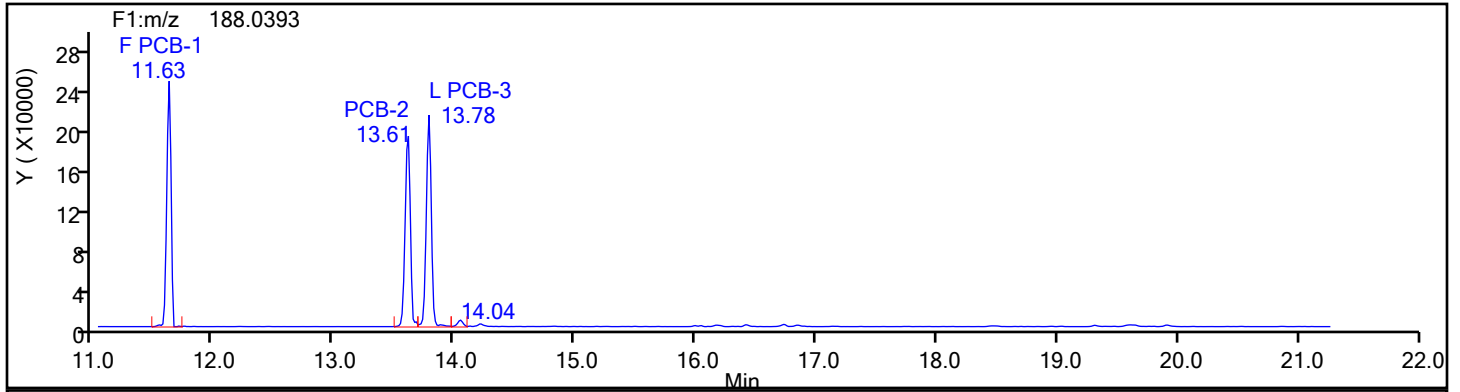
Worklist#: 87130

Sample Line#: 3

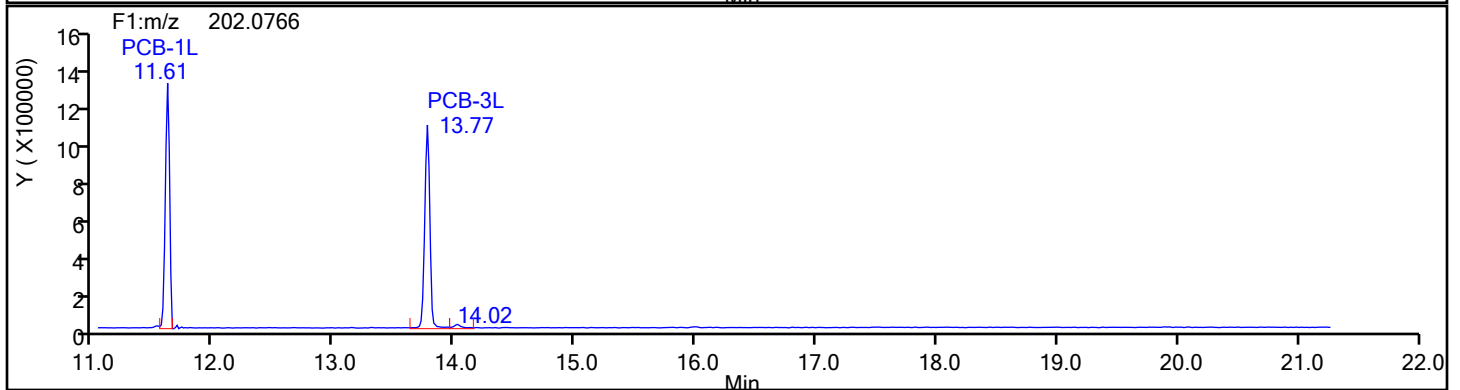
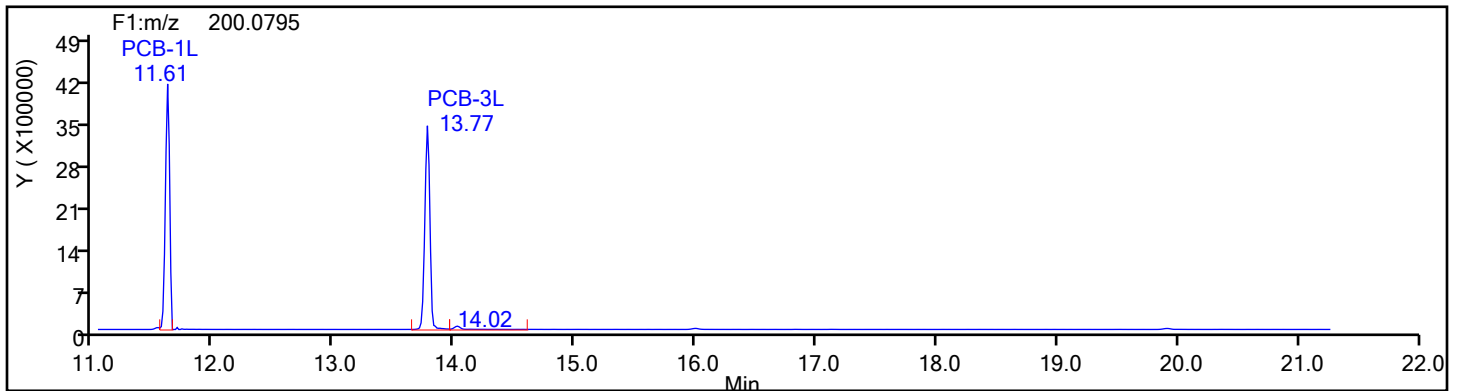
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

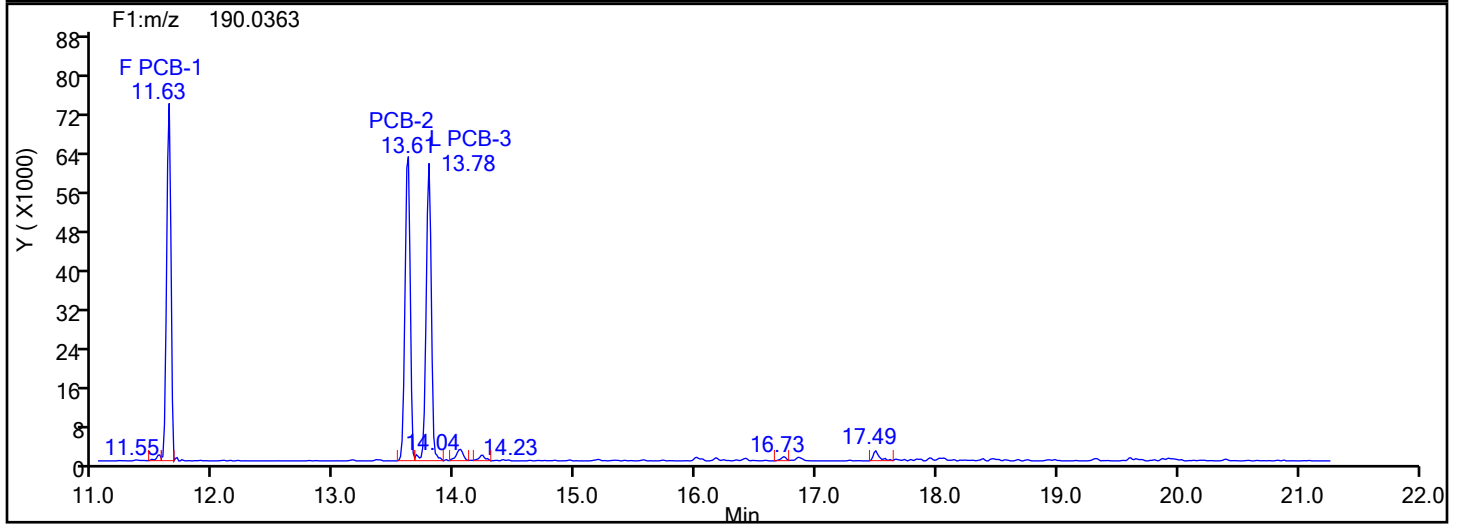
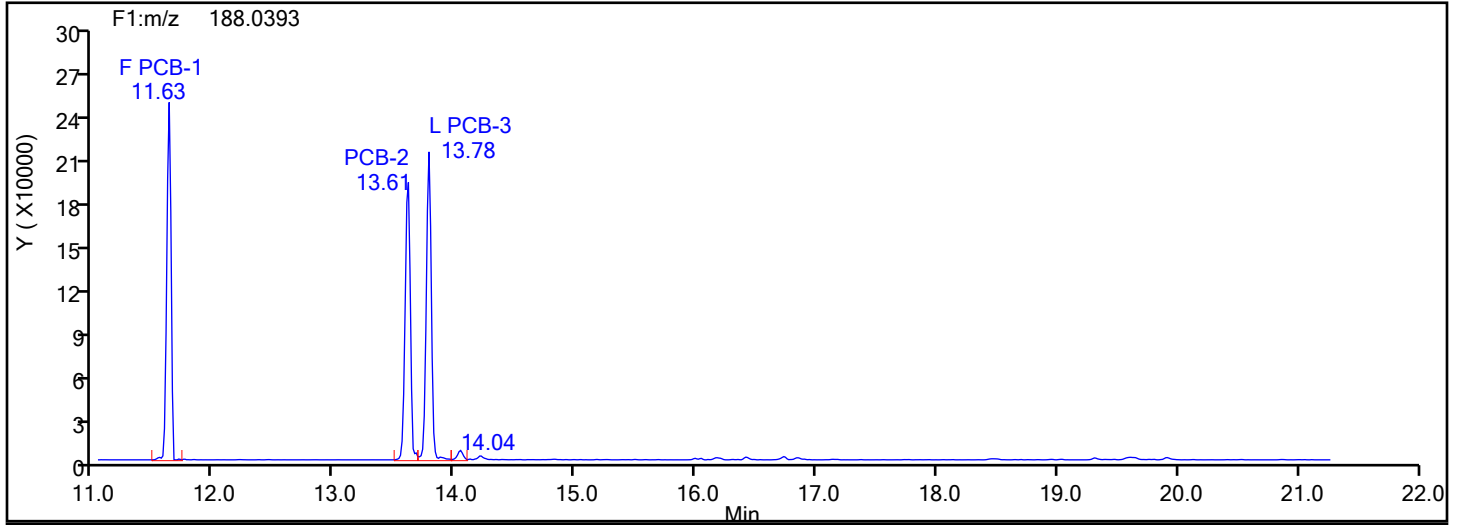
Worklist#: 87130

Sample Line#: 3

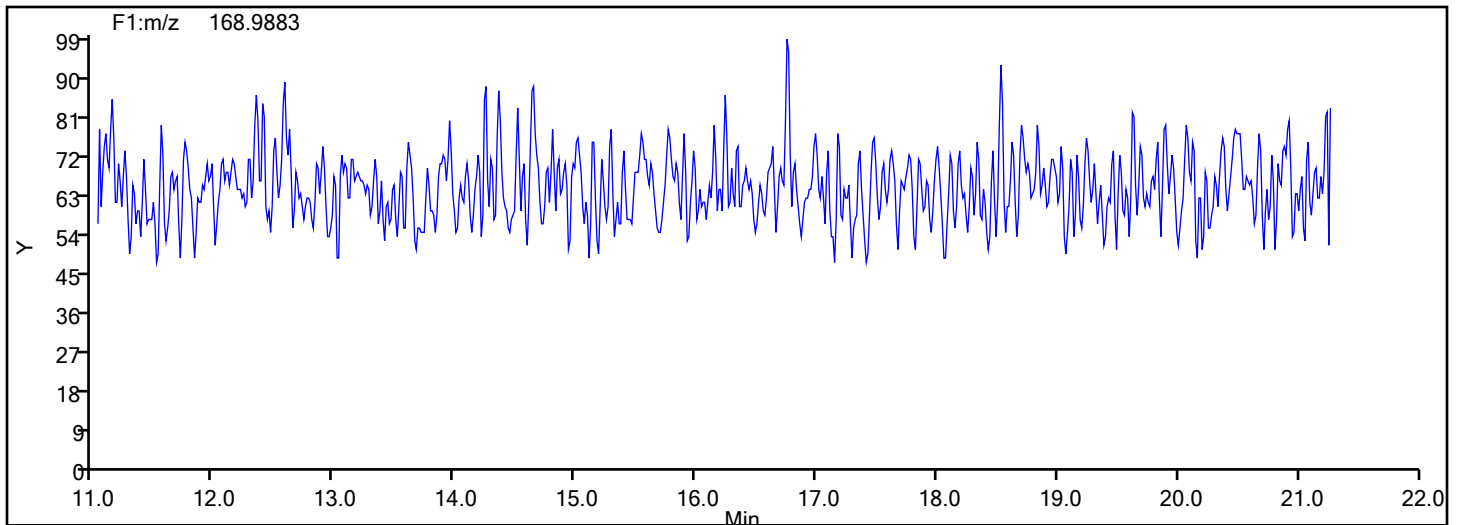
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

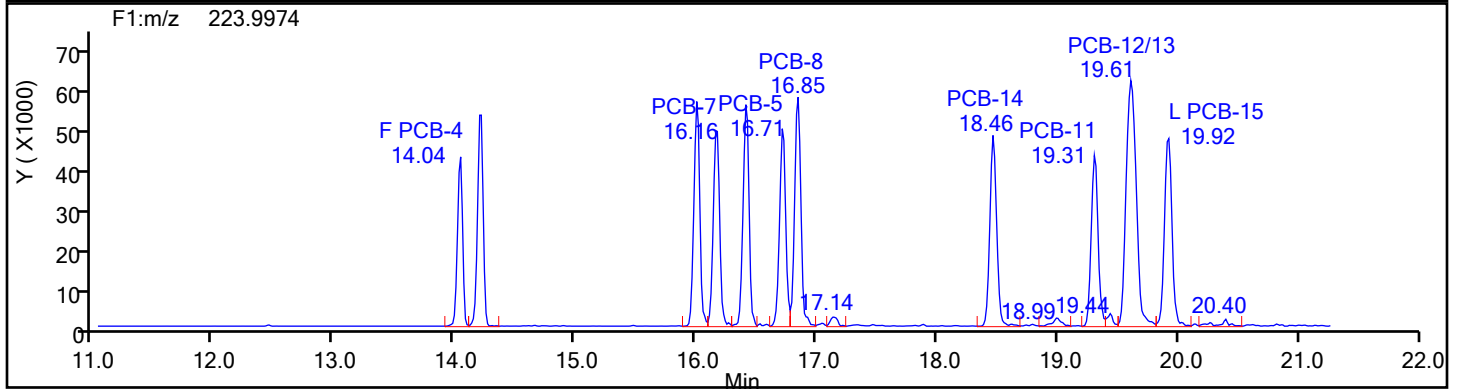
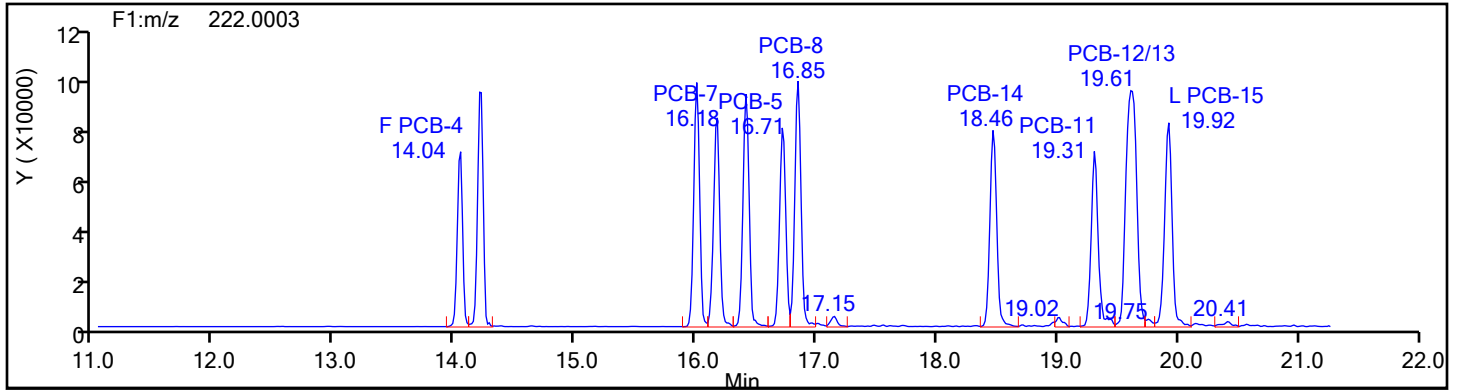
Worklist#: 87130

Sample Line#: 3

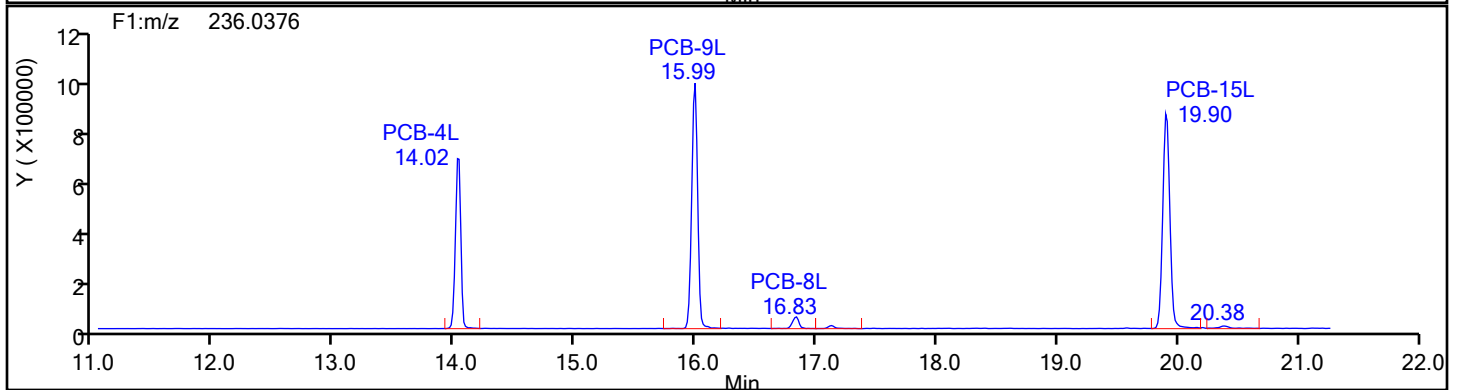
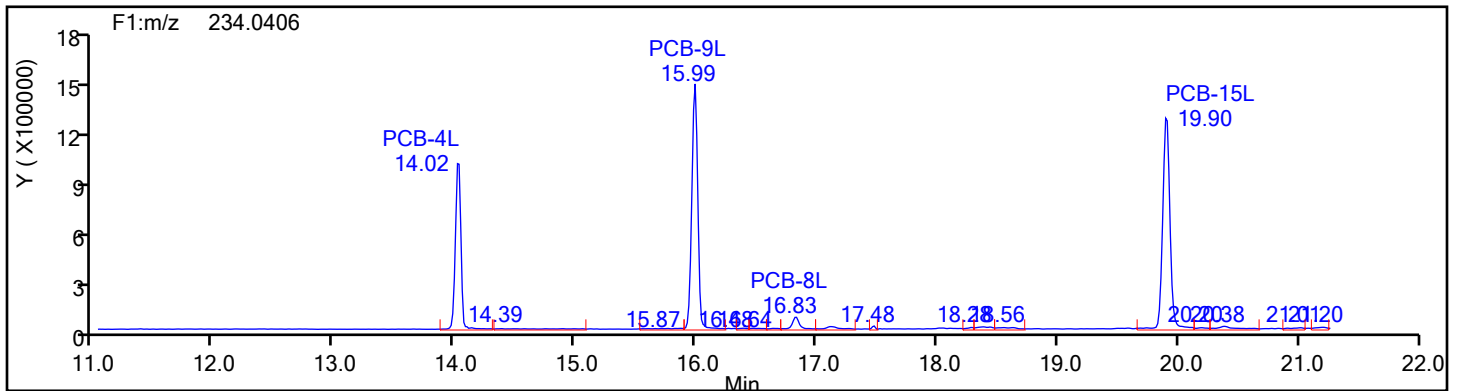
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

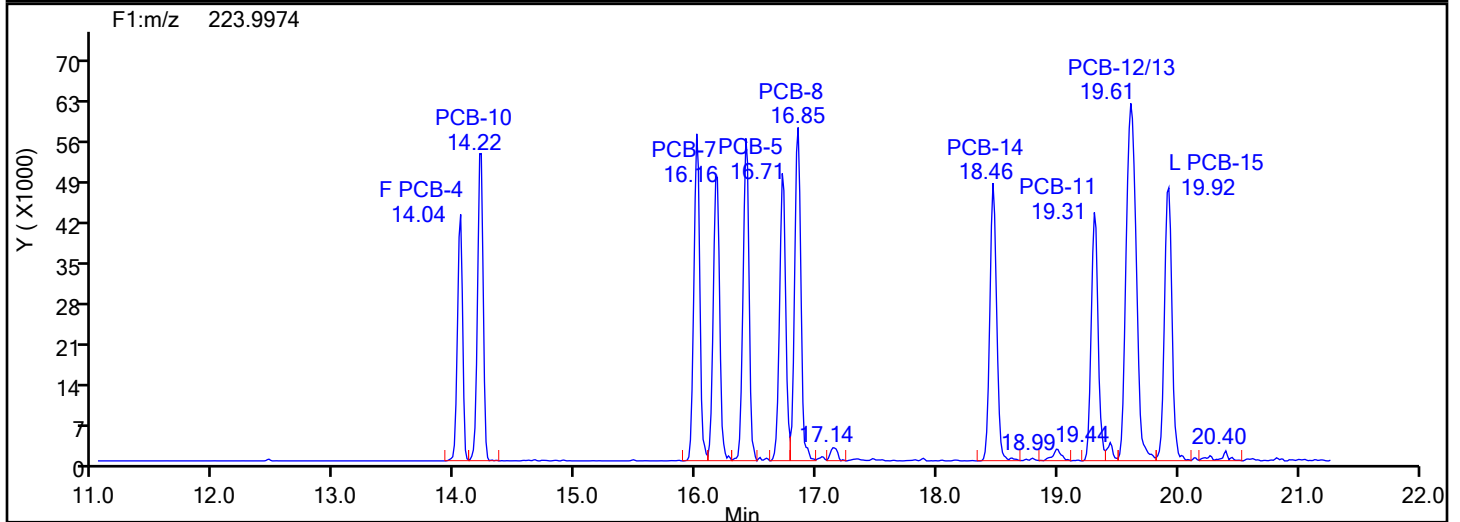
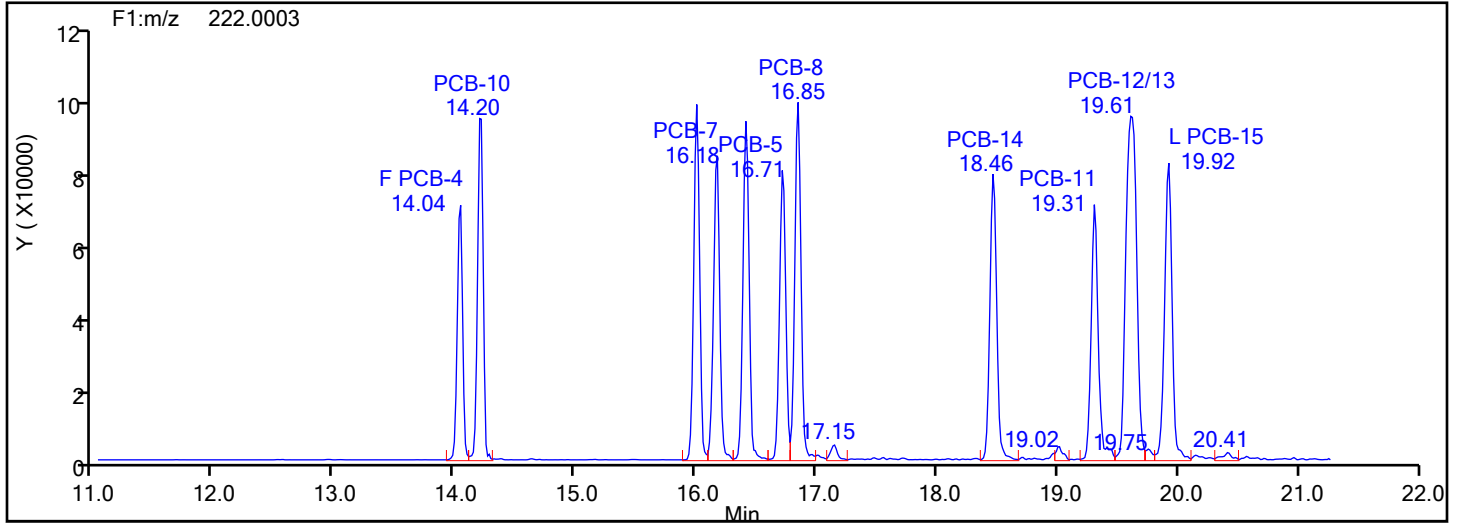
Worklist#: 87130

Sample Line#: 3

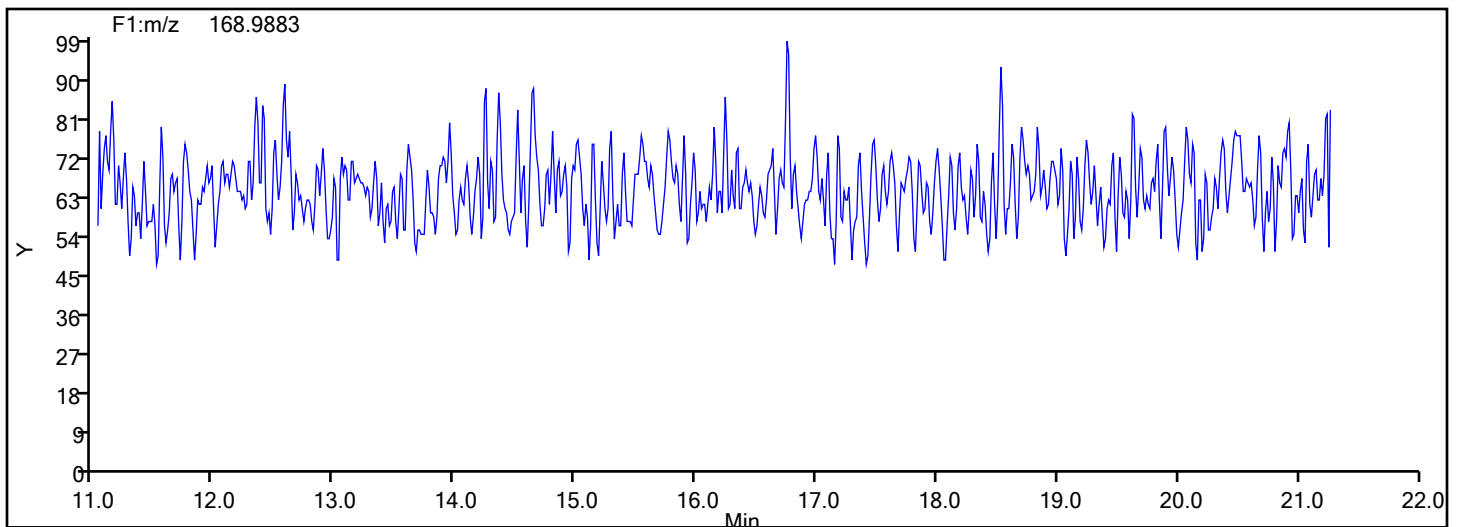
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

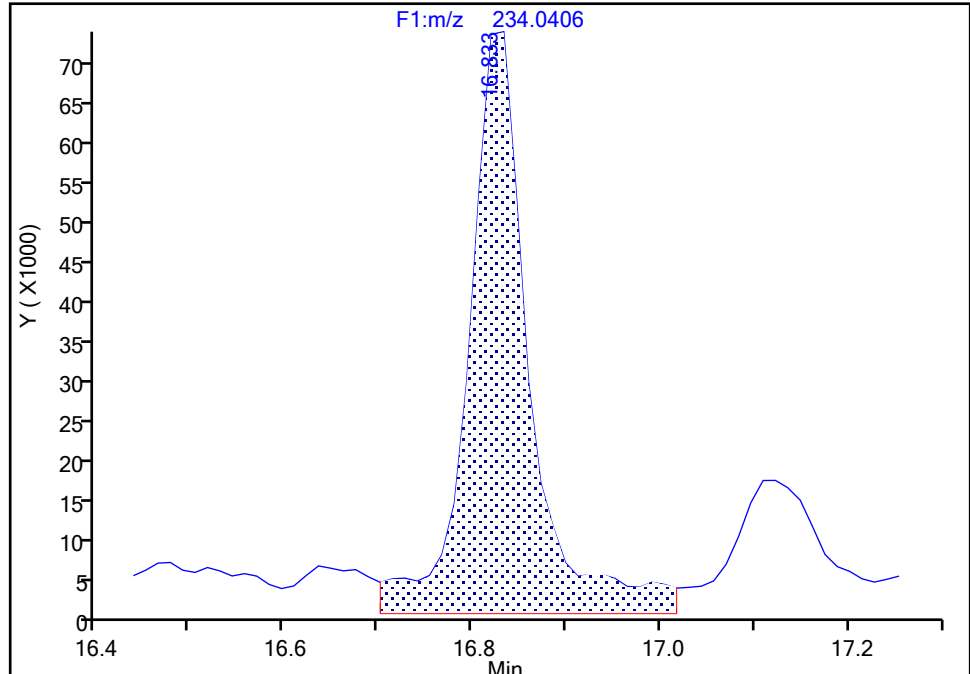
Detector F1(11.07 :21.70 )

**PCB-8L, CAS: STL01600**

Signal: 1

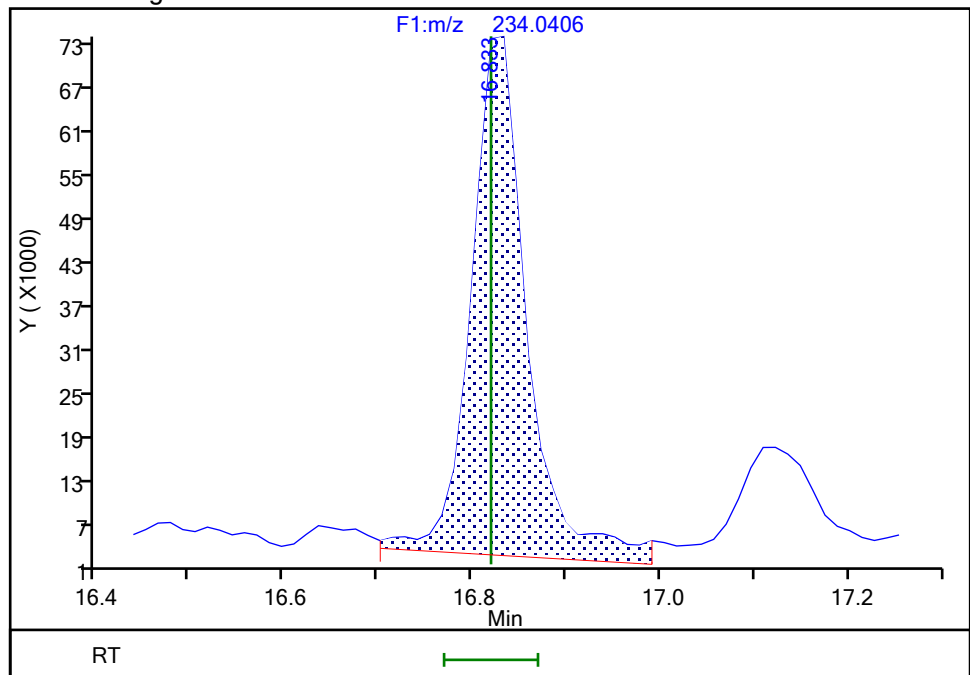
RT: 16.83  
Area: 333617  
Amount: 5.908651  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.83  
Area: 293687  
Amount: 5.499787  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 31-May-2024 19:08:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

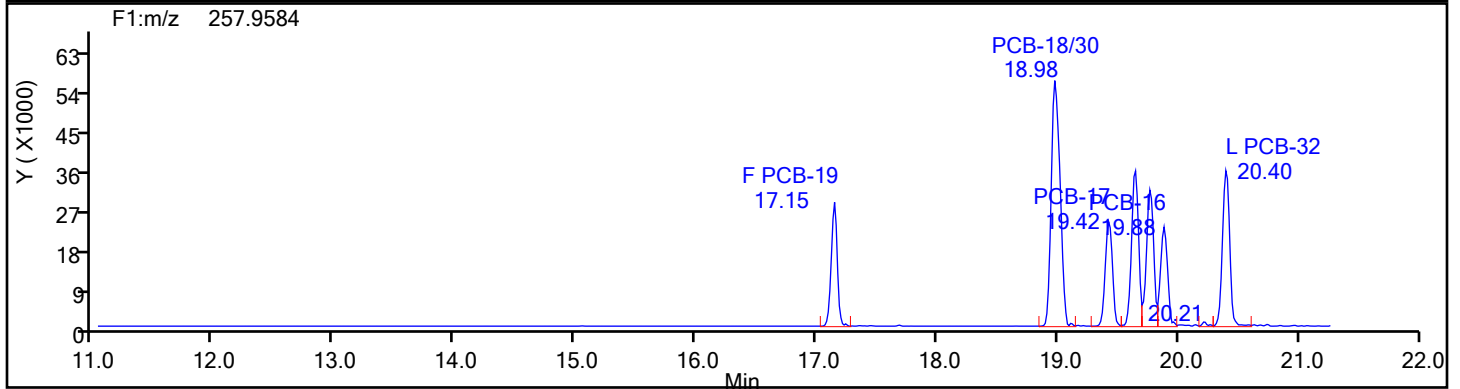
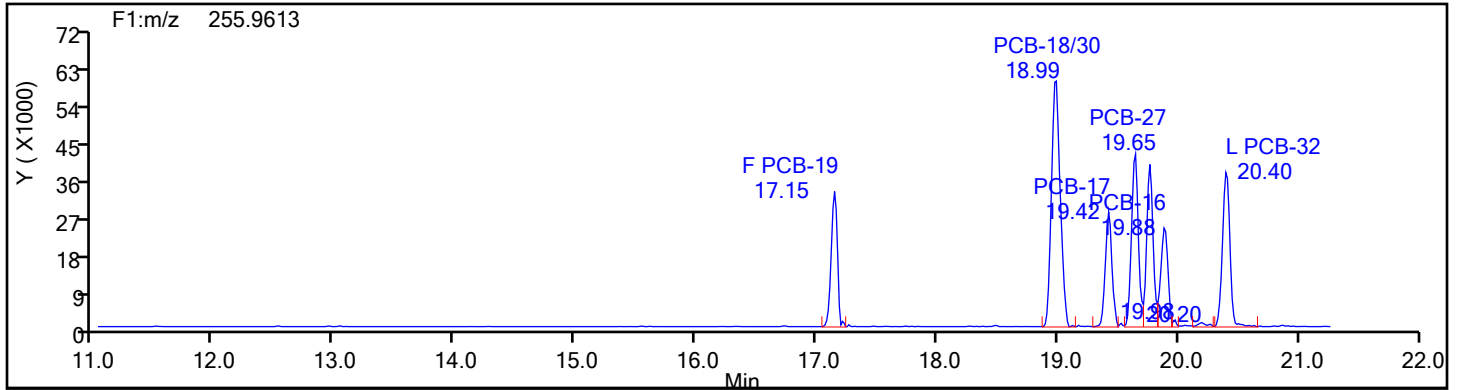
Worklist#: 87130

Sample Line#: 3

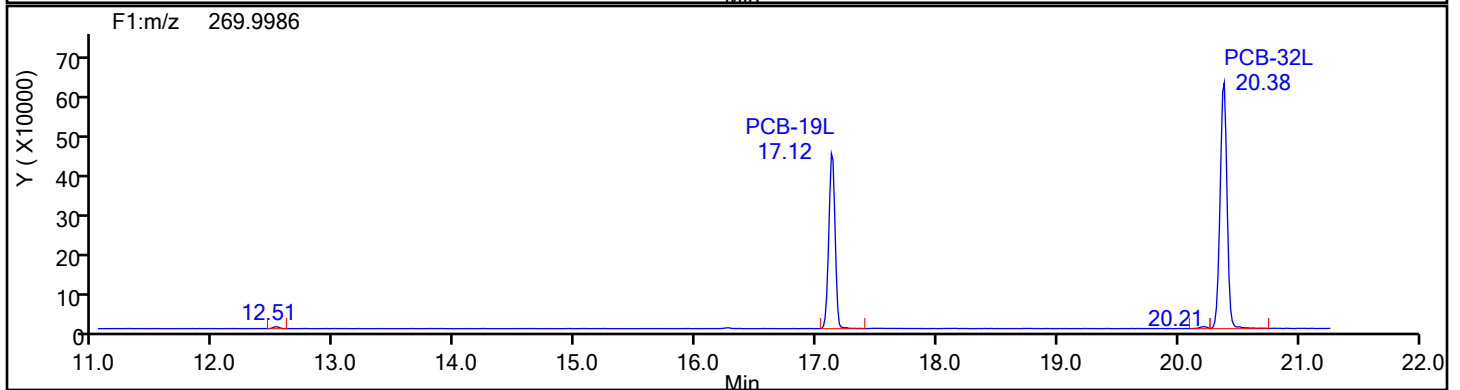
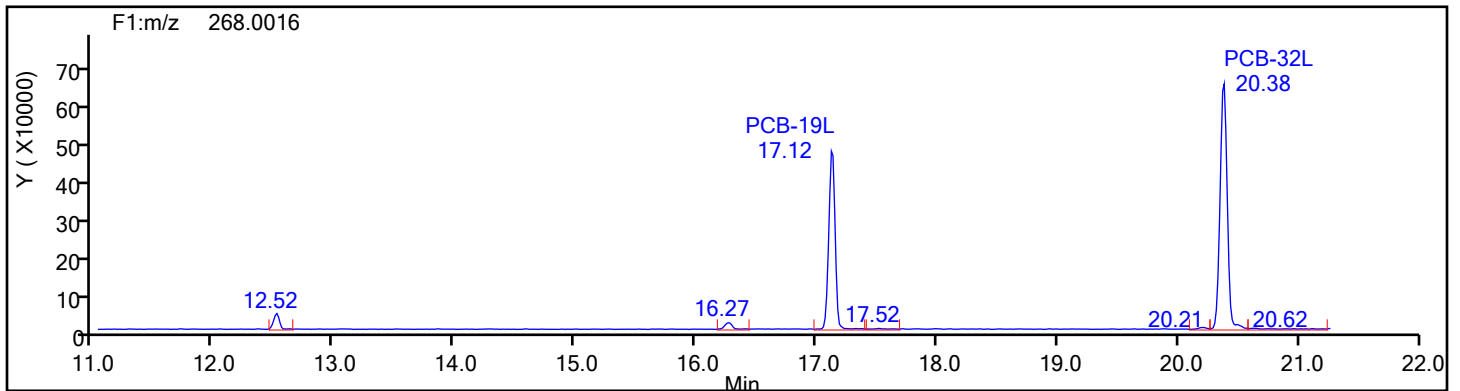
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

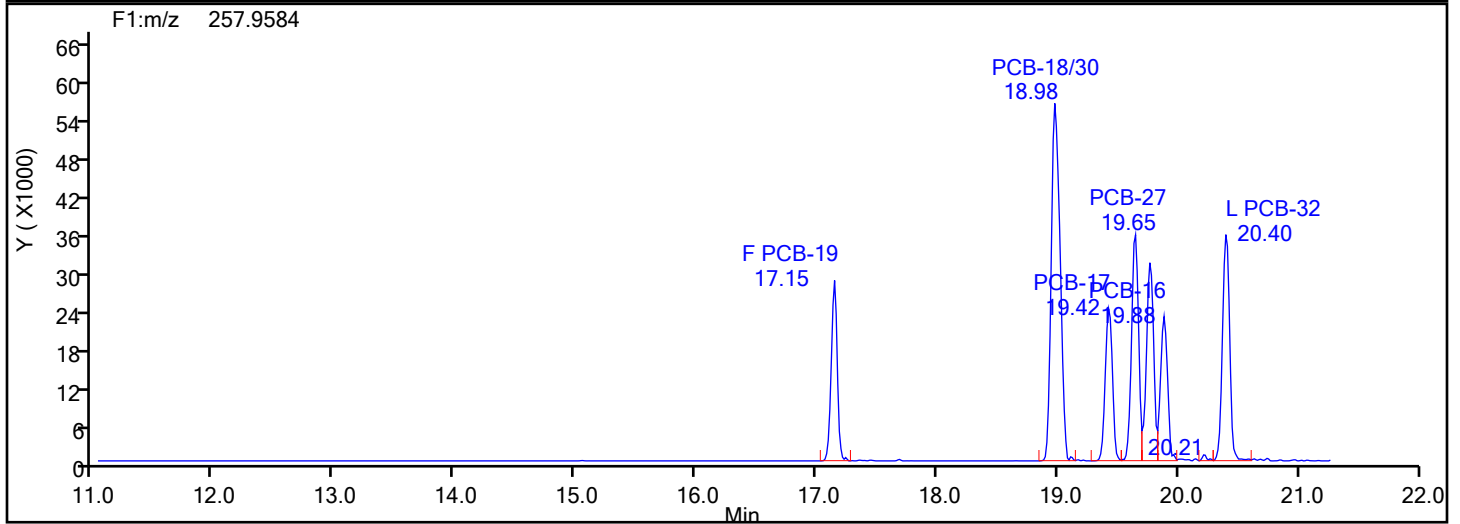
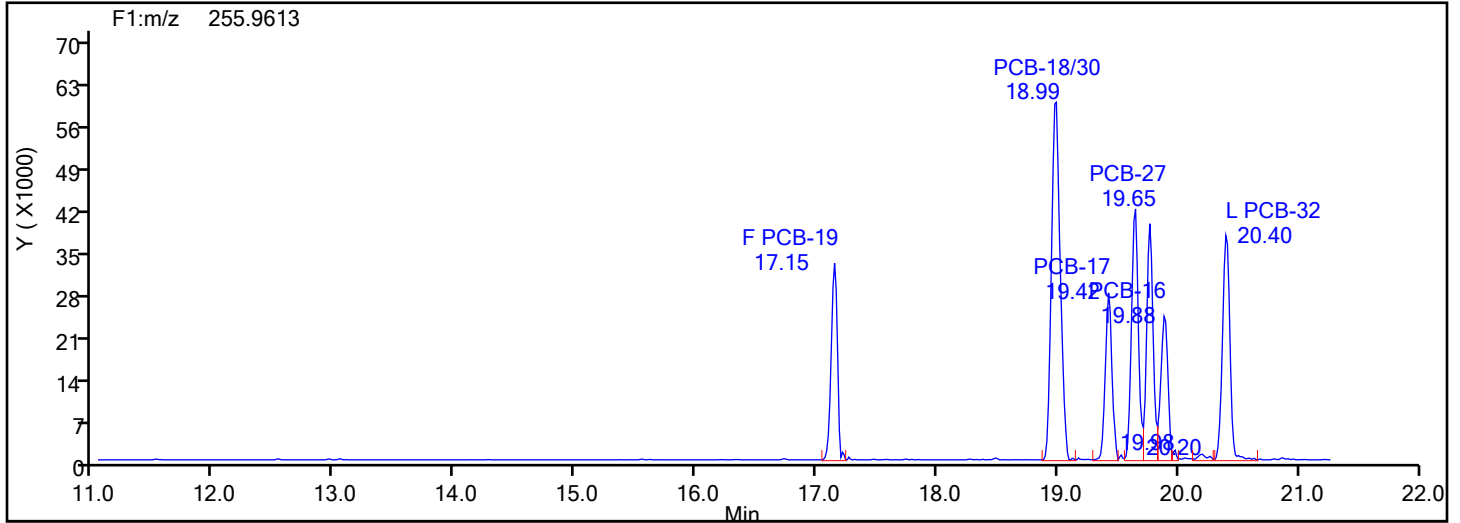
Worklist#: 87130

Sample Line#: 3

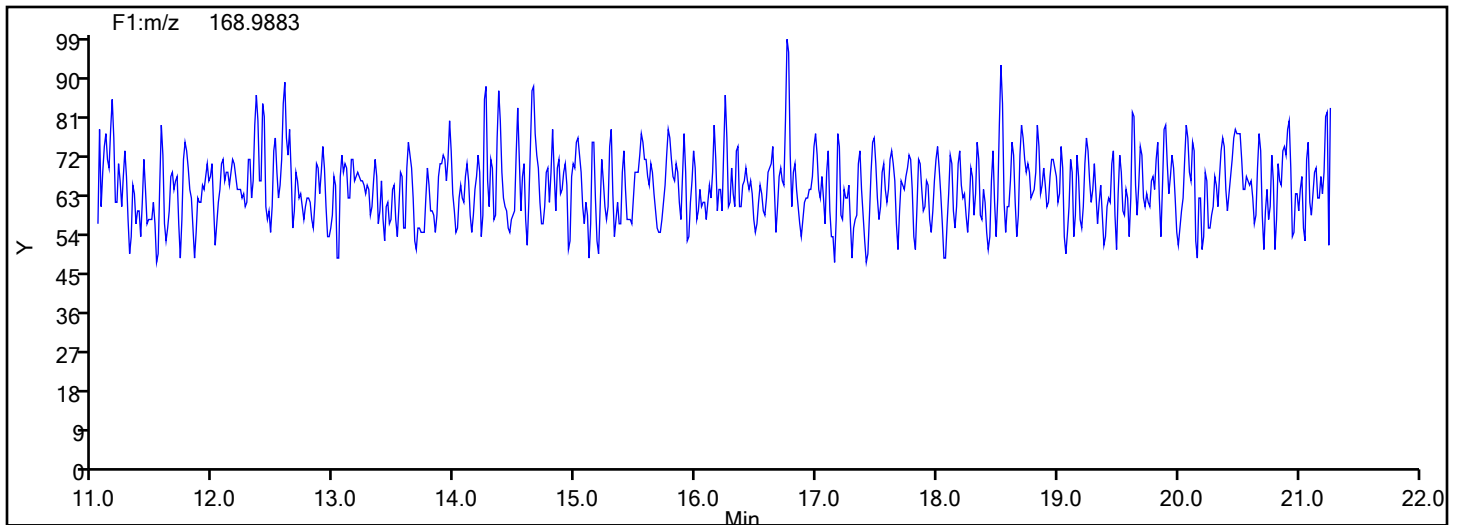
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

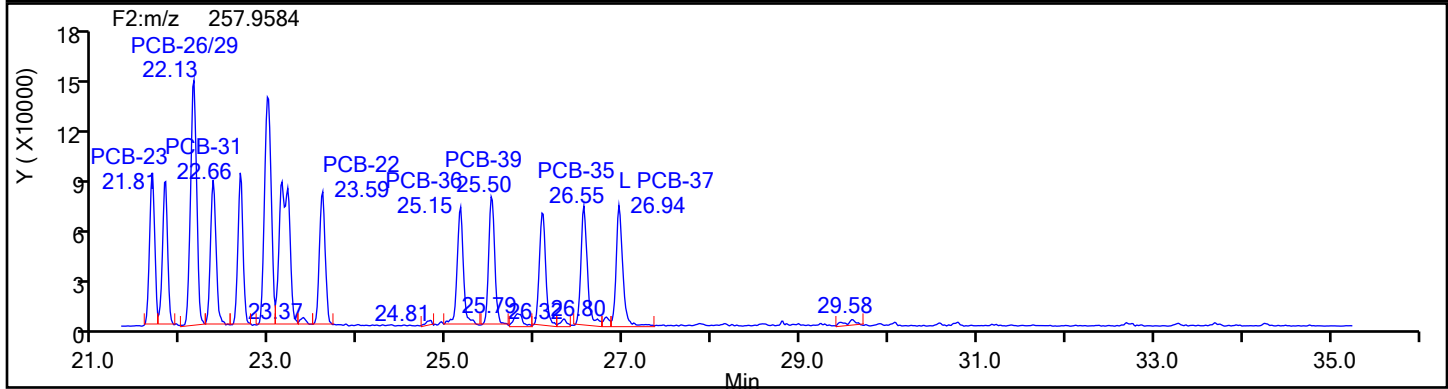
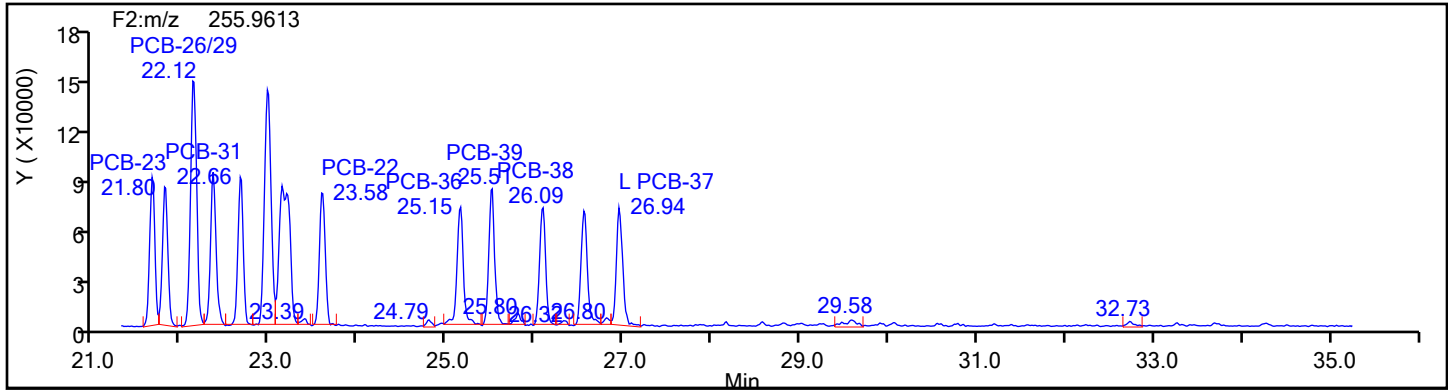
Worklist#: 87130

Sample Line#: 3

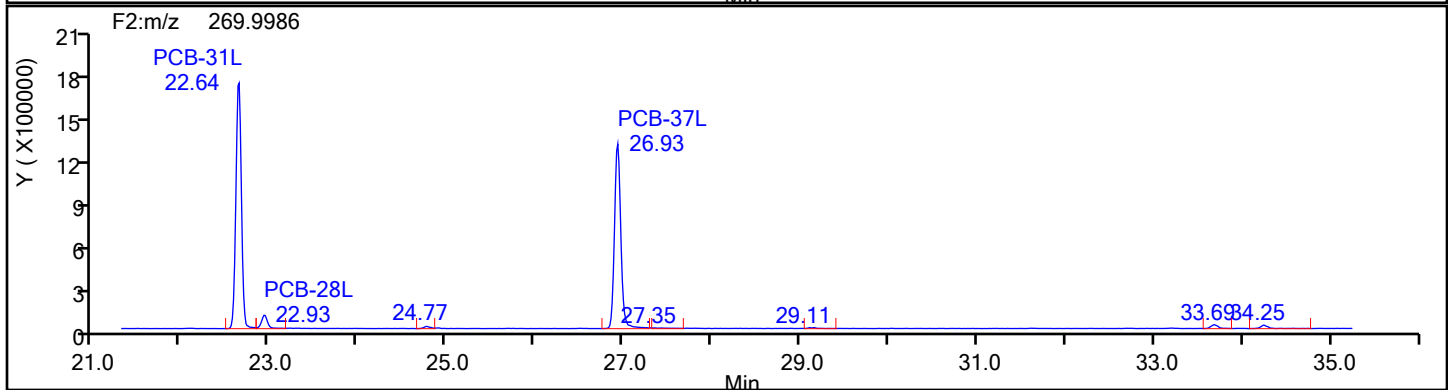
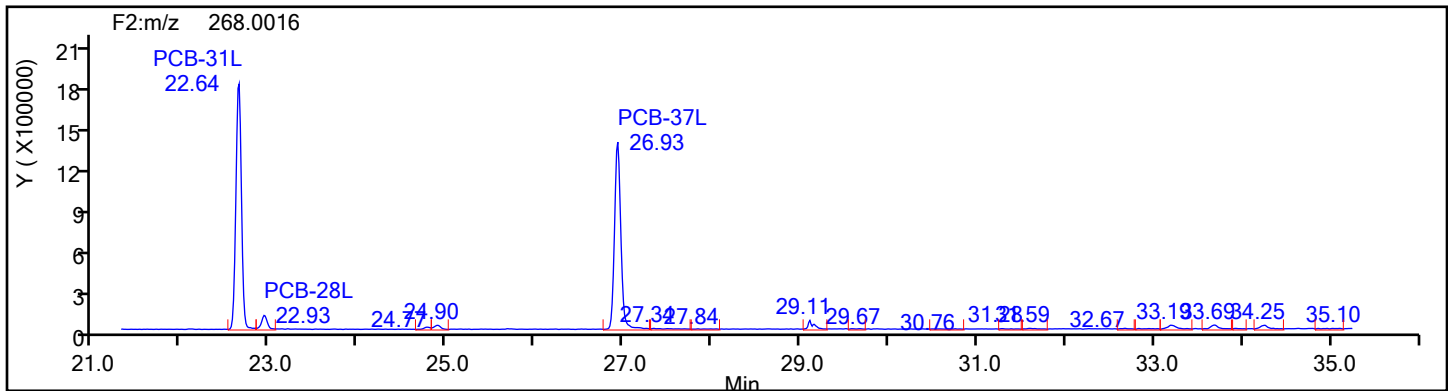
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

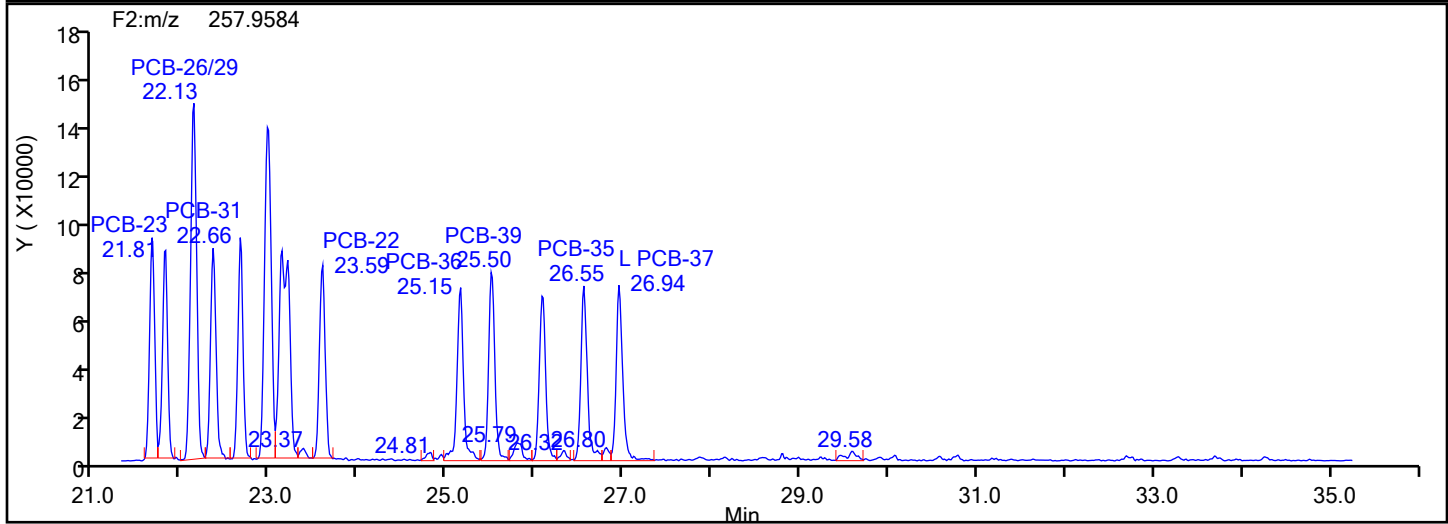
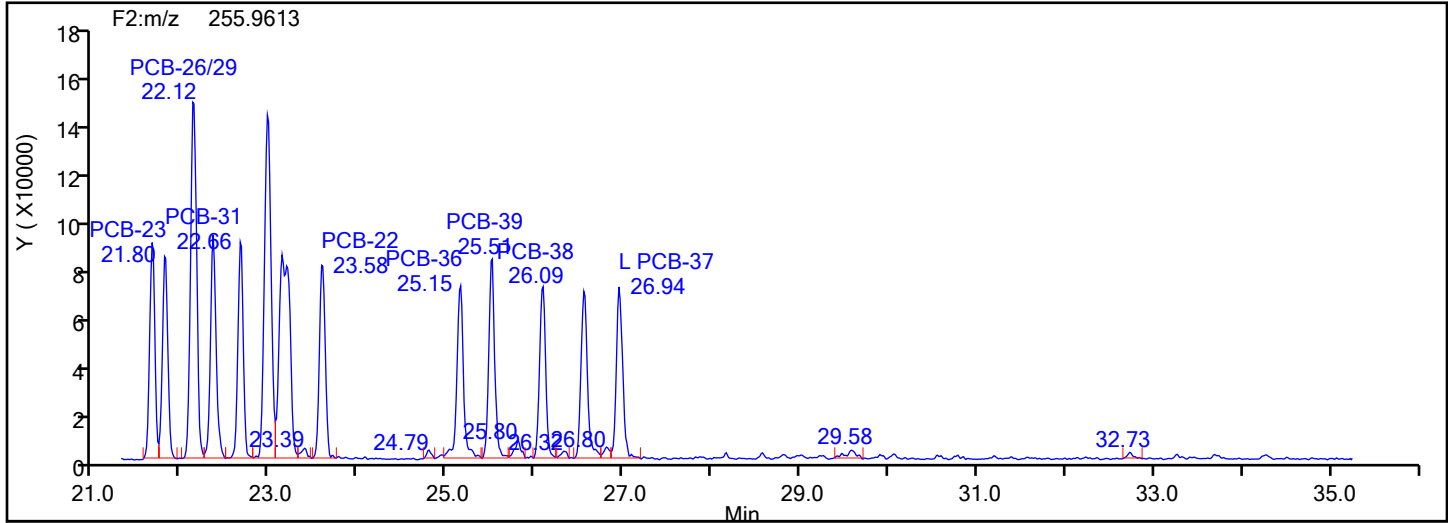
Worklist#: 87130

Sample Line#: 3

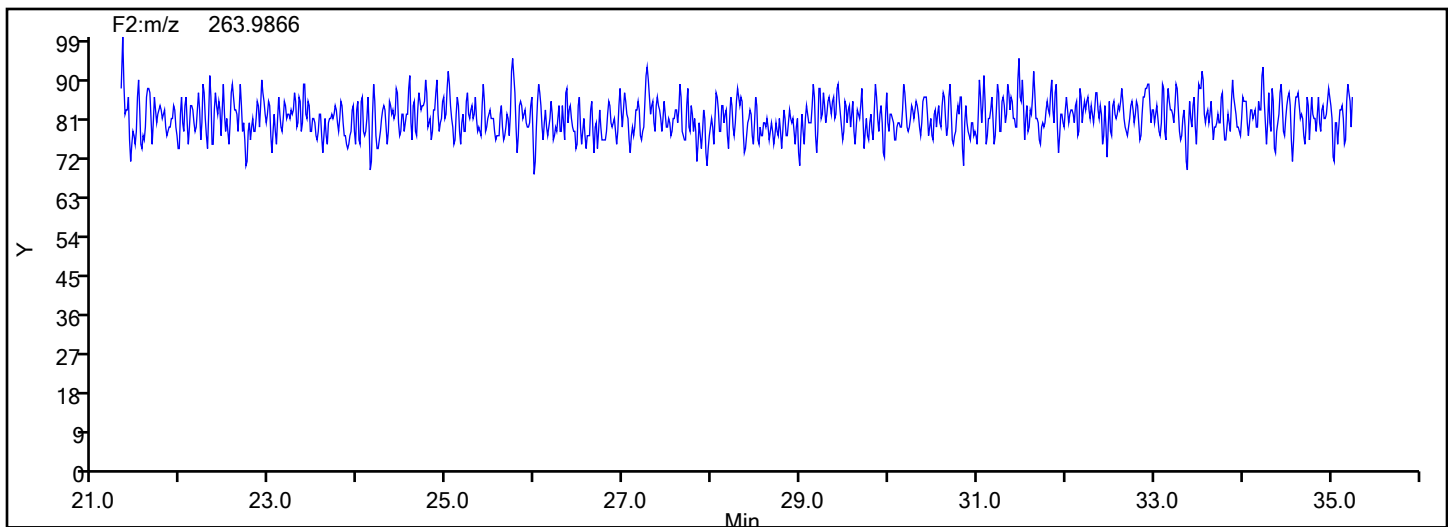
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

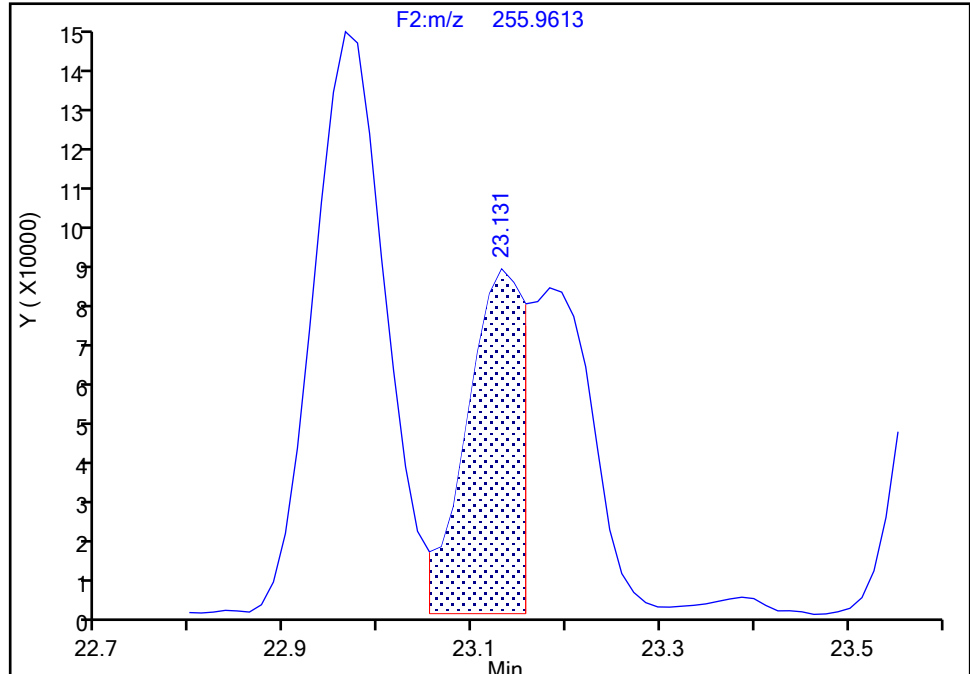
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

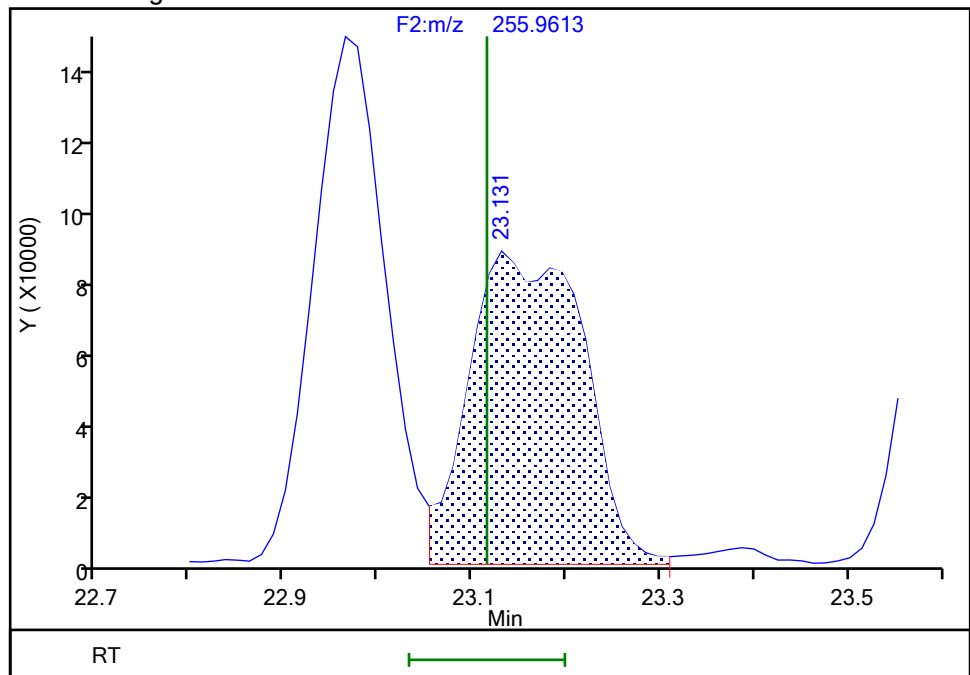
RT: 23.13  
Area: 341530  
Amount: 5.112120  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.13  
Area: 720072  
Amount: 9.960208  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:42:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

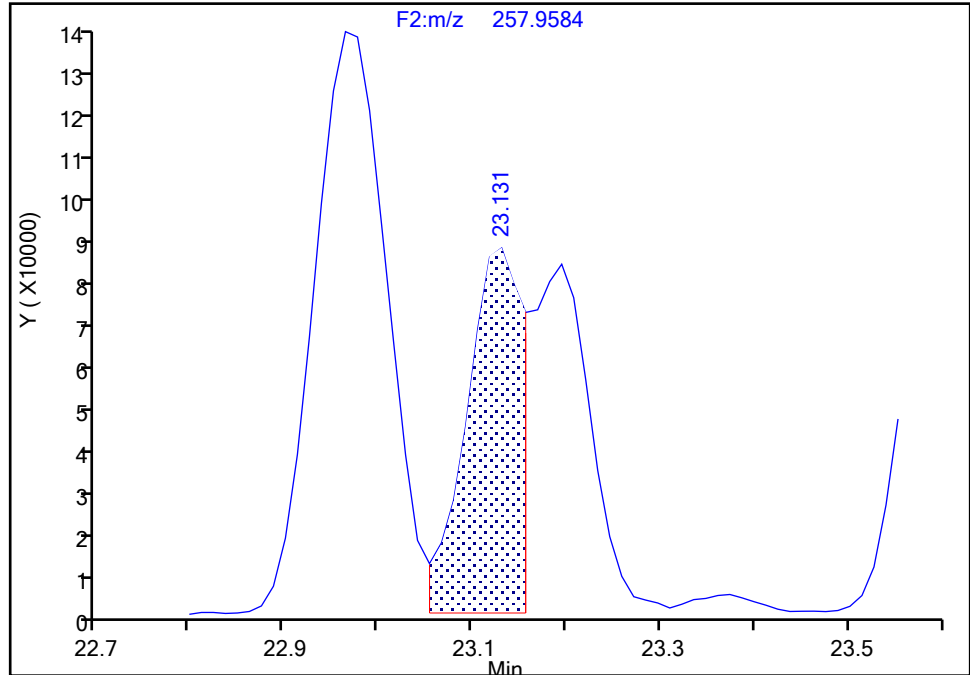
F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

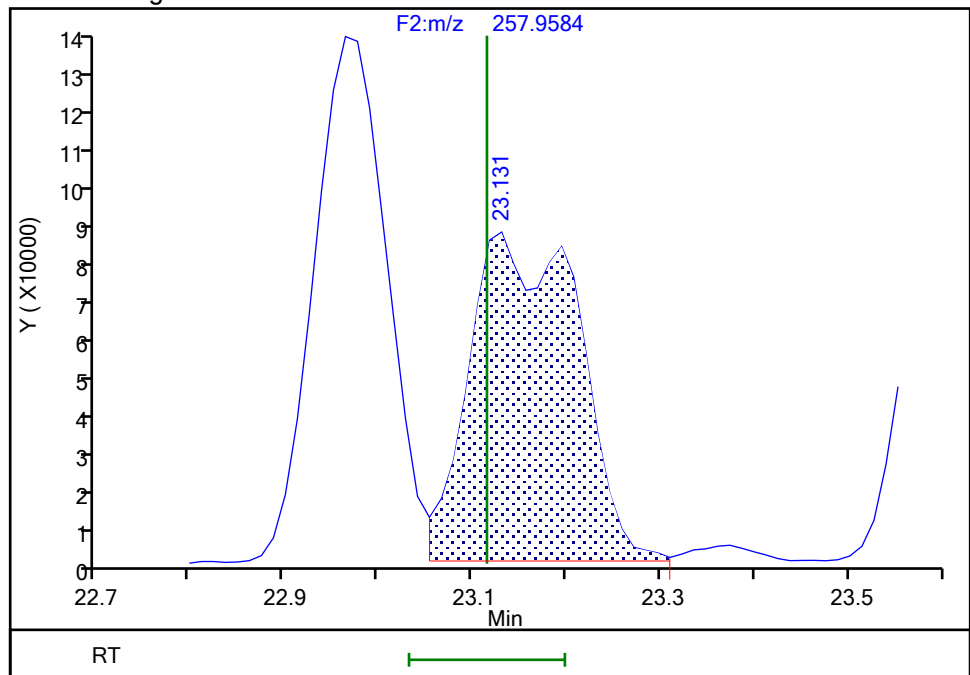
RT: 23.13  
Area: 335268  
Amount: 5.112120  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.13  
Area: 683628  
Amount: 9.960208  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F0020179  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

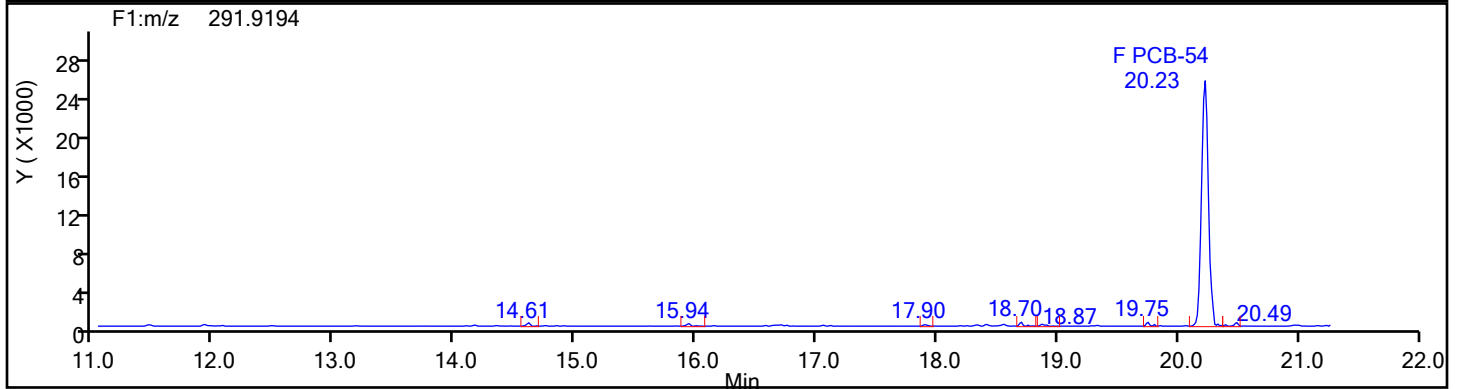
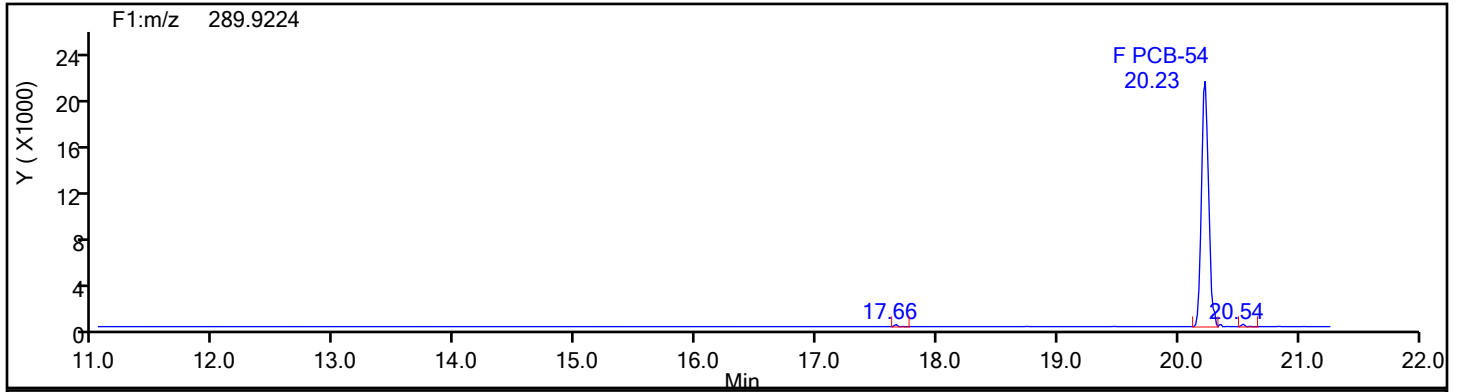
Worklist#: 87130

Sample Line#: 3

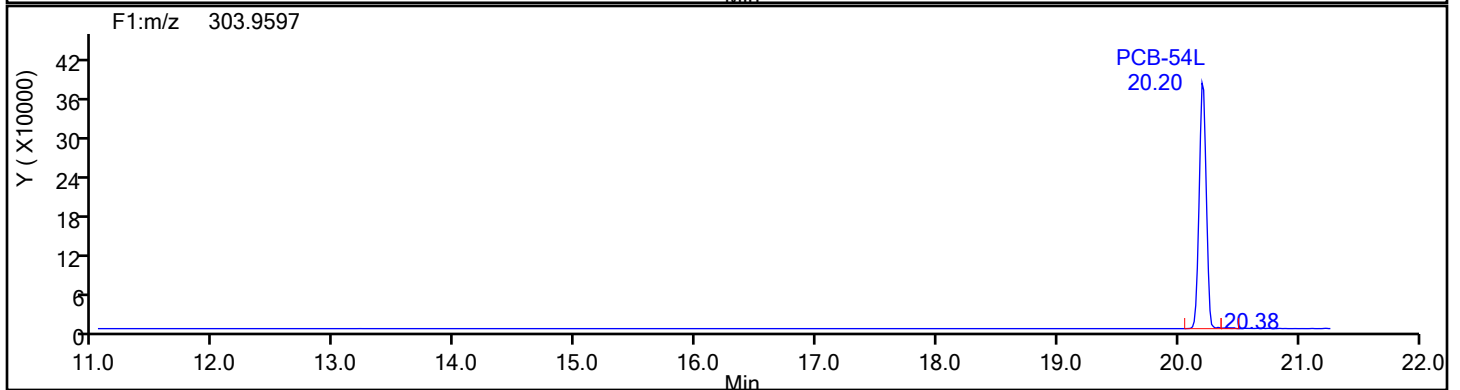
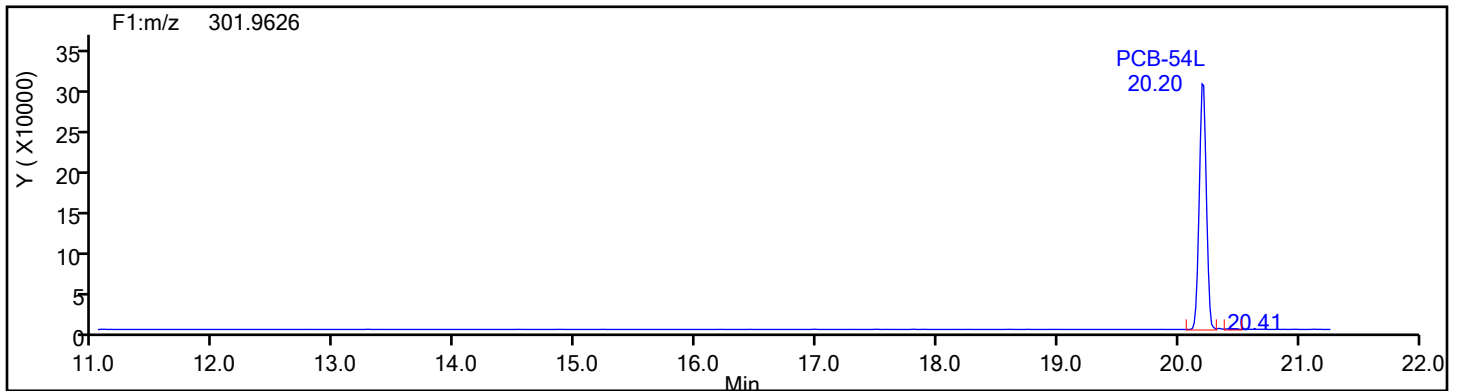
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

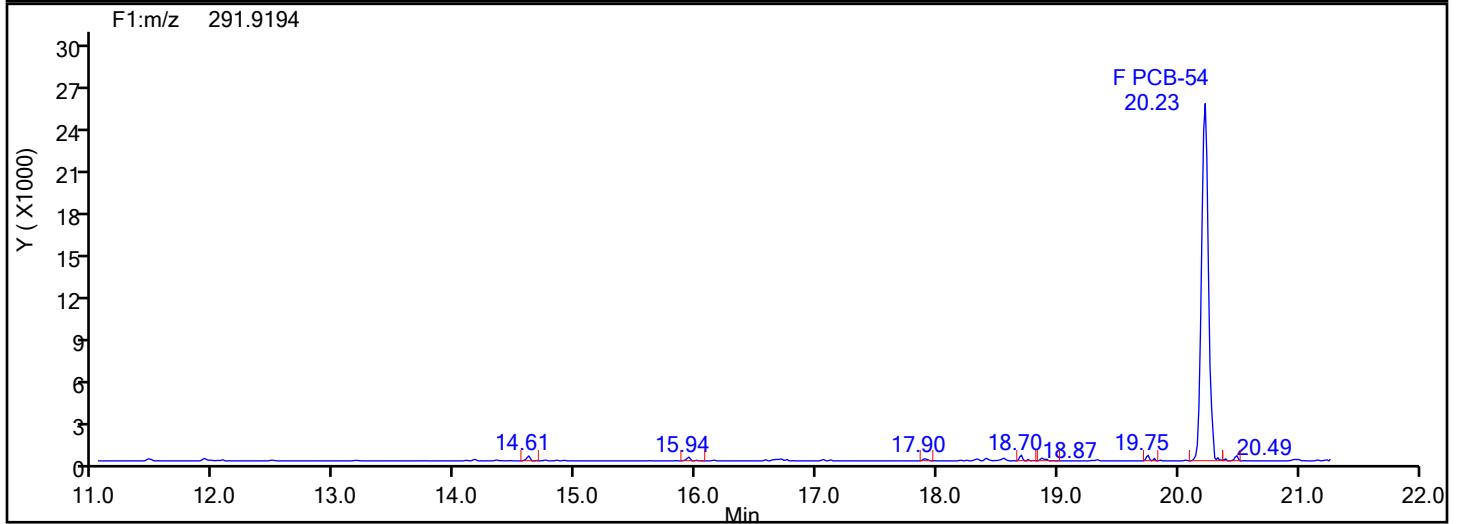
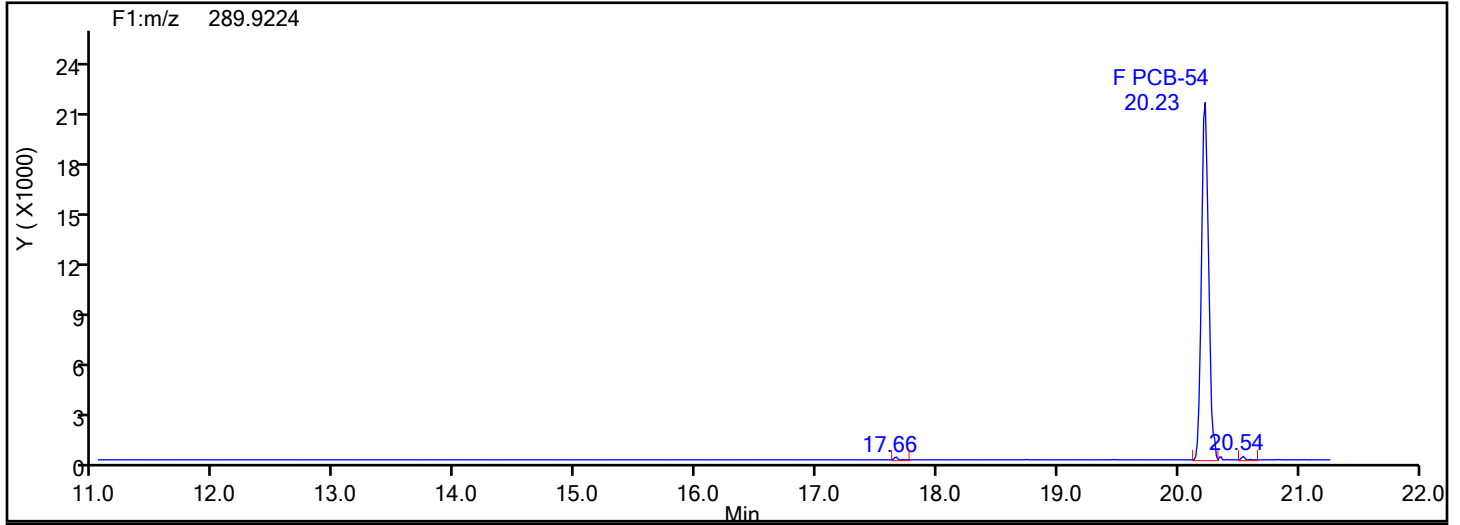


TePCB F1 Standards

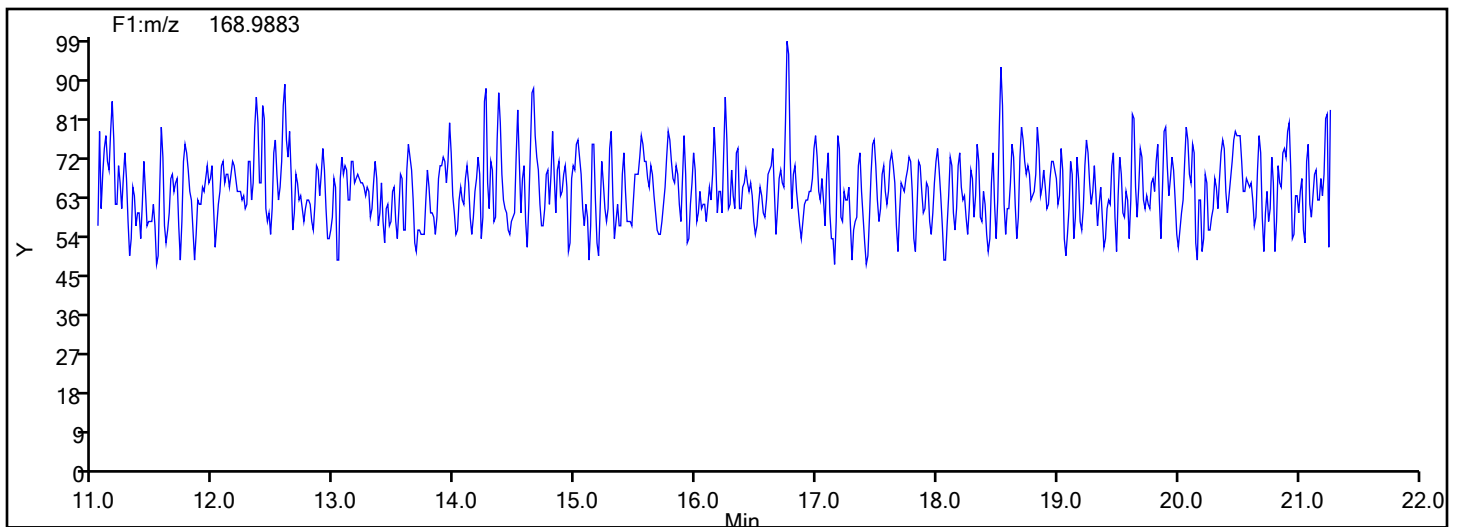


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 3  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1



## TePCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

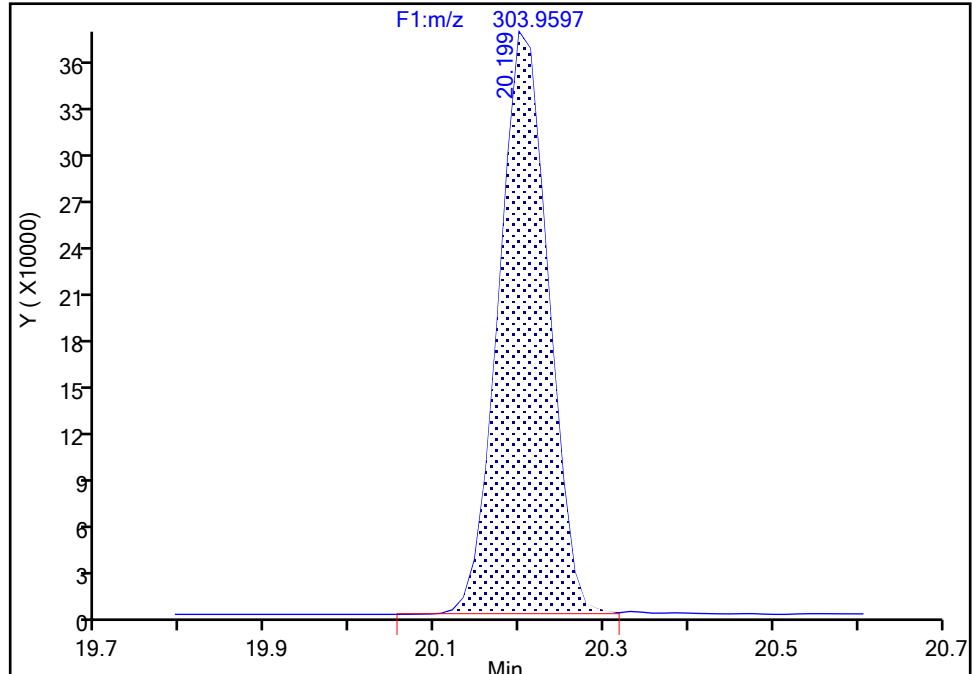
Detector F1(11.07 :21.70 )

**PCB-54L, CAS: 234432-88-3**

Signal: 2

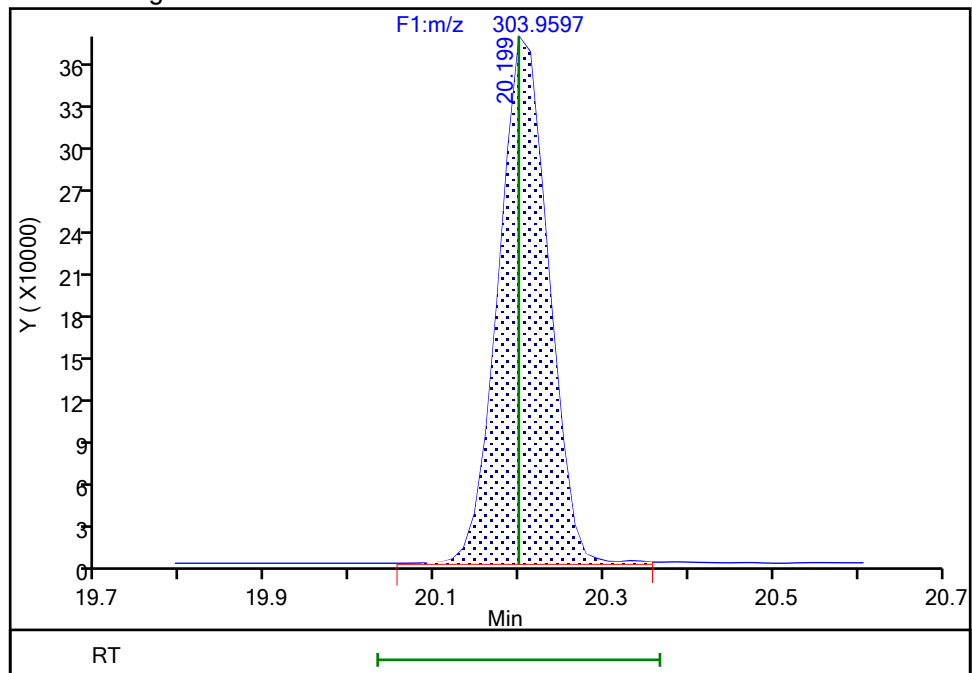
RT: 20.20  
Area: 1539448  
Amount: 88.210787  
Amount Units: pg/ul

## Processing Integration Results



RT: 20.20  
Area: 1551267  
Amount: 95.415041  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

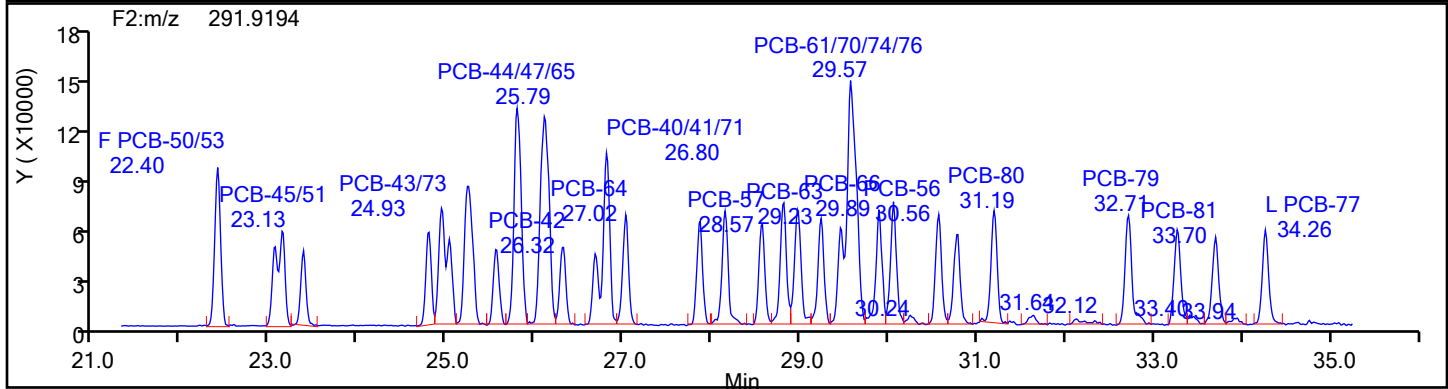
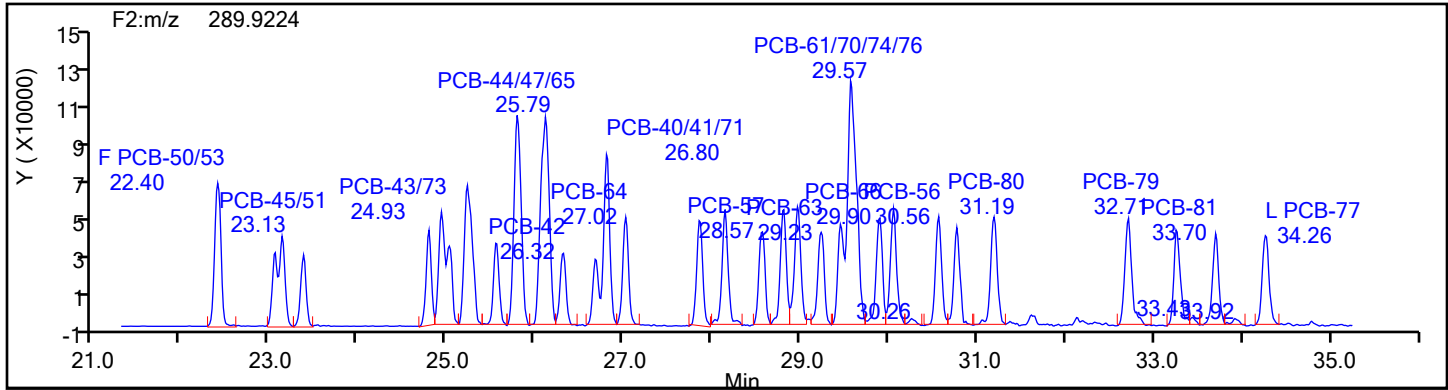
Worklist#: 87130

Sample Line#: 3

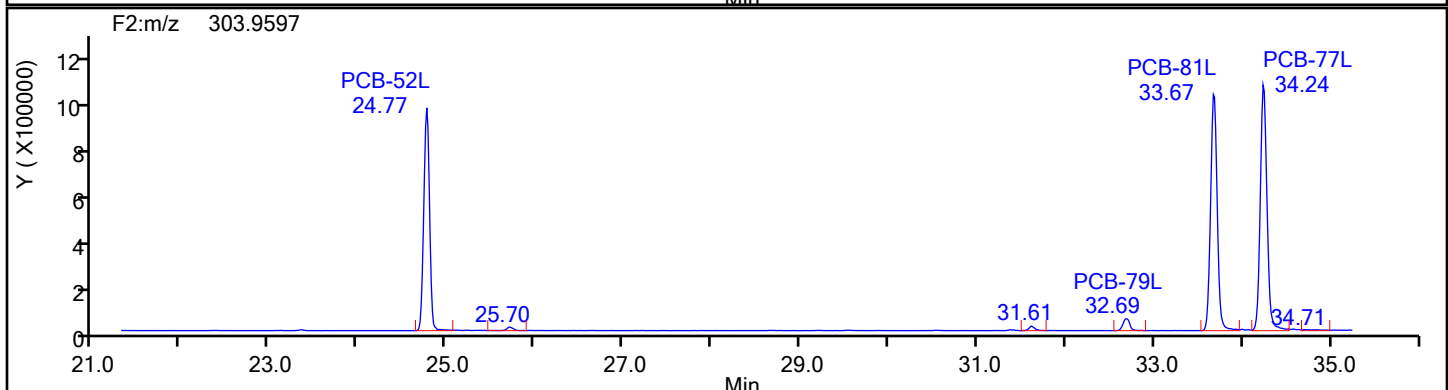
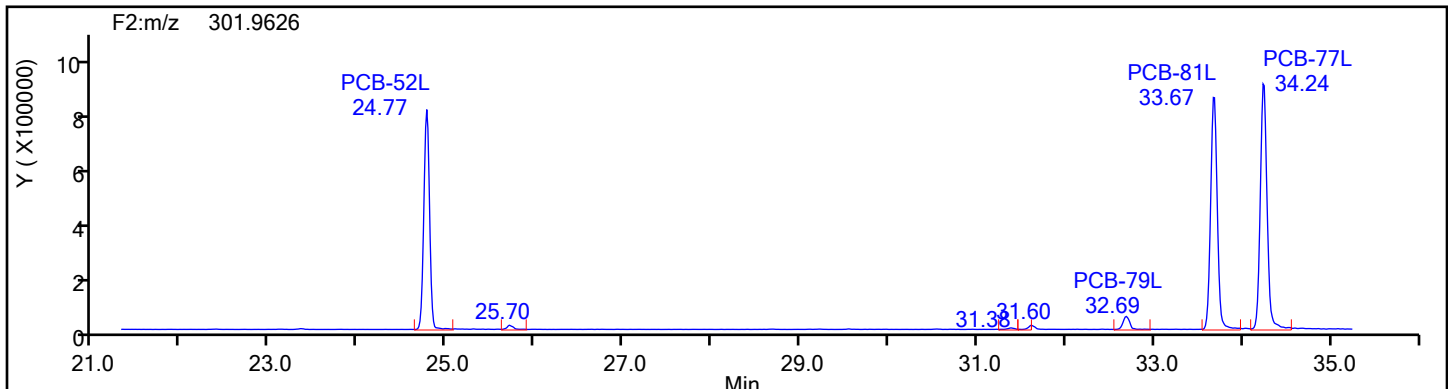
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

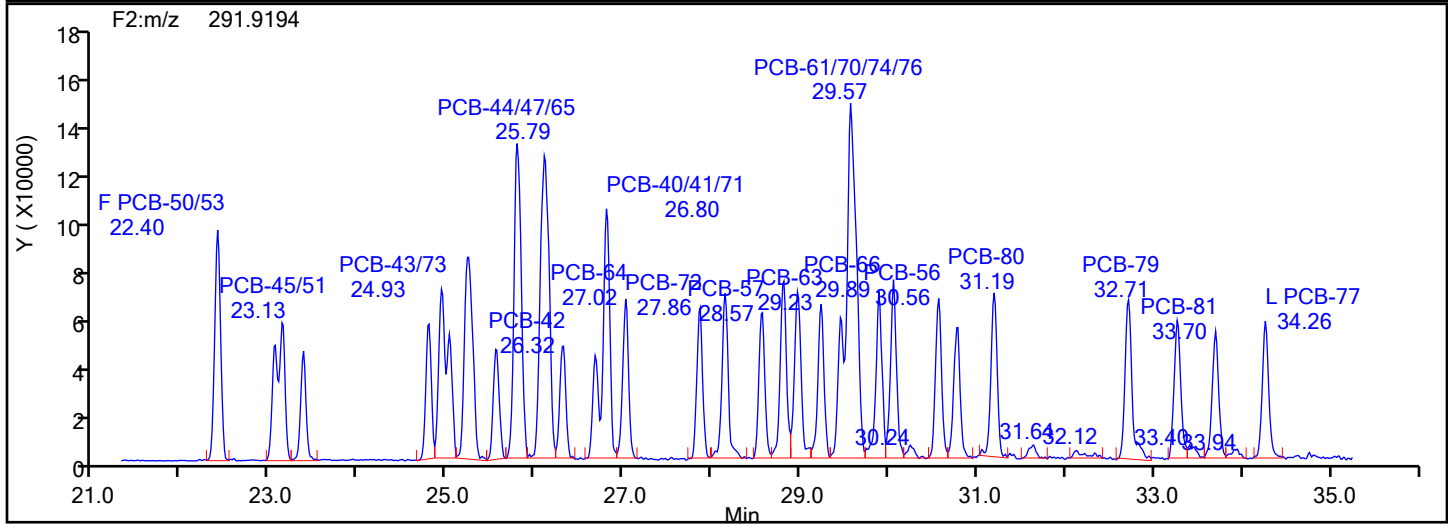
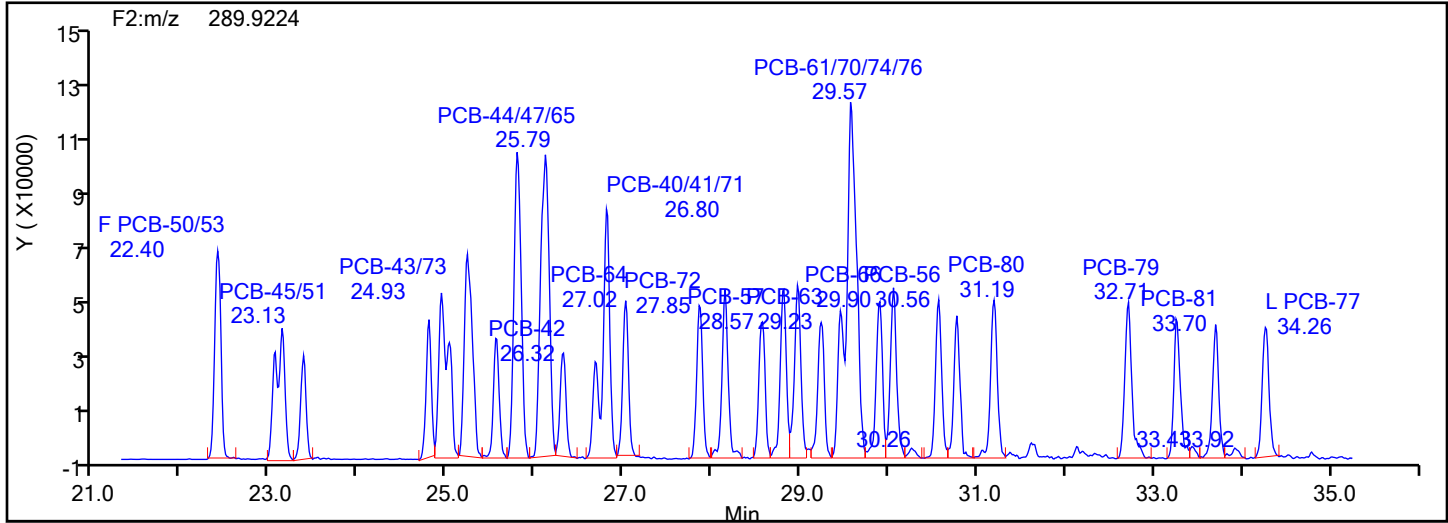
Worklist#: 87130

Sample Line#: 3

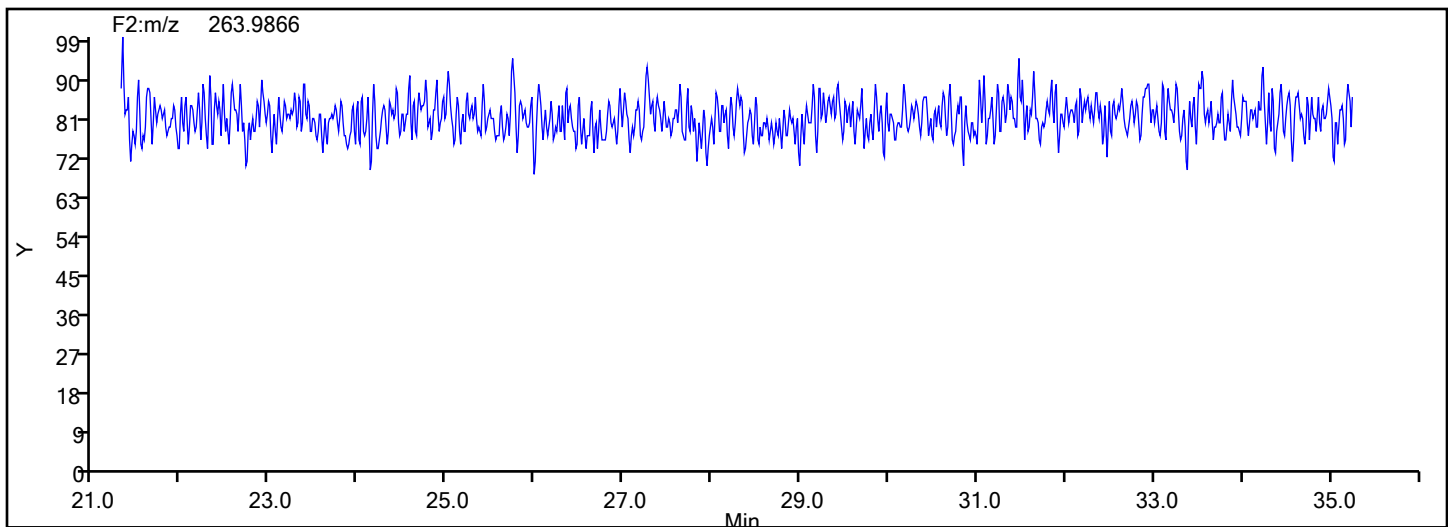
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

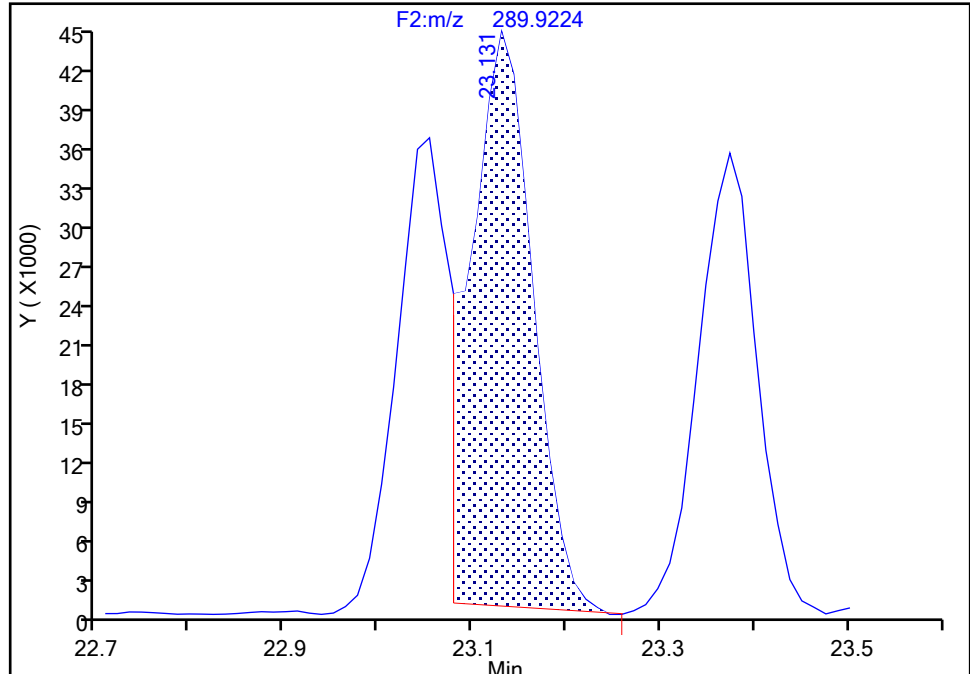
Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 1

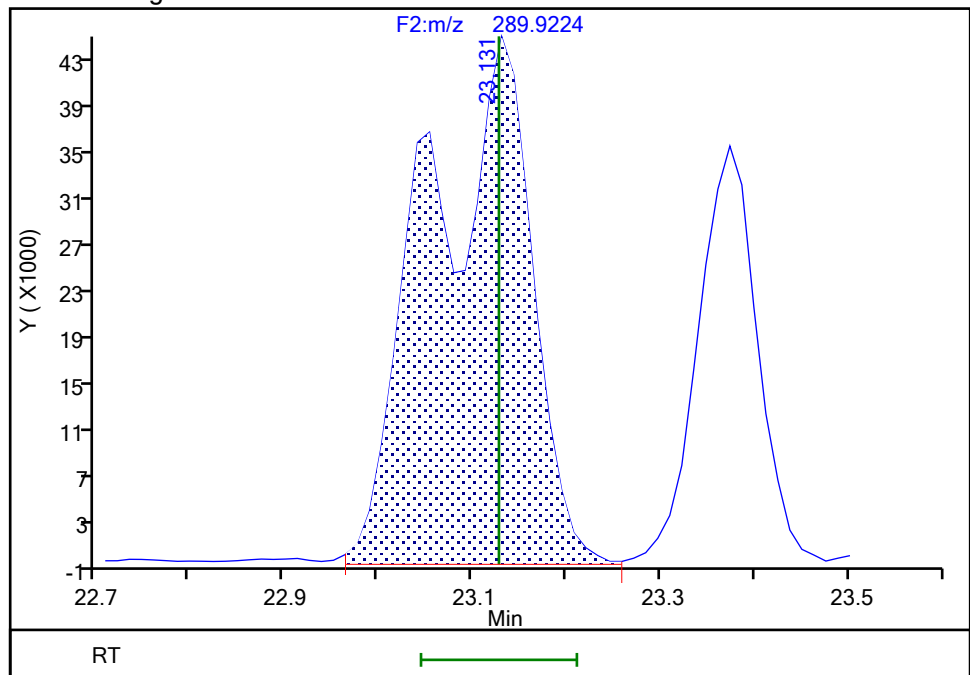
RT: 23.13  
Area: 197949  
Amount: 6.095820  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.13  
Area: 337953  
Amount: 9.812546  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

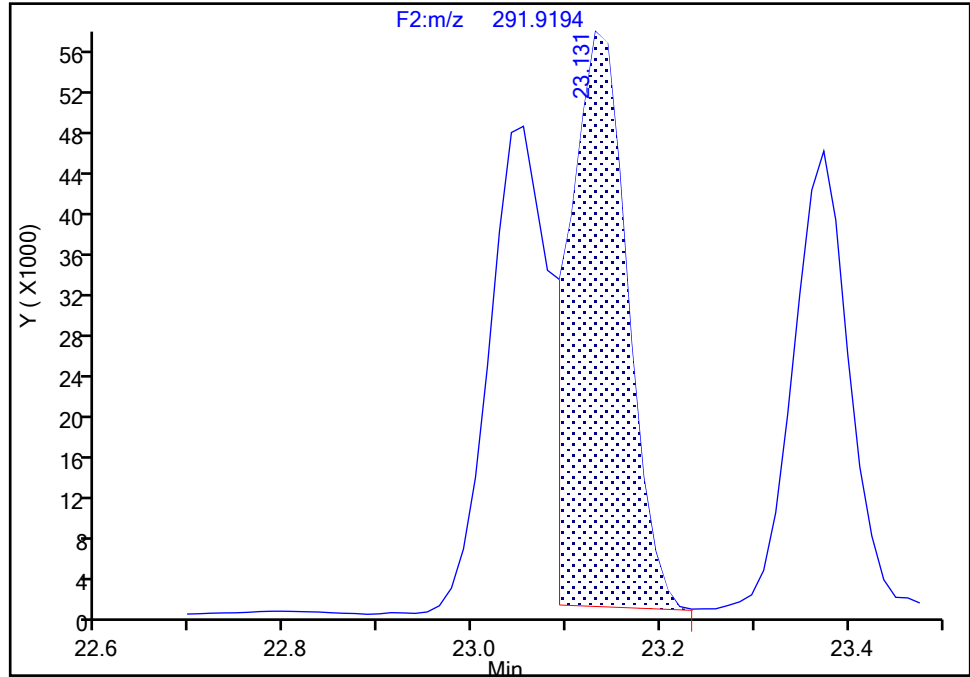
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 2

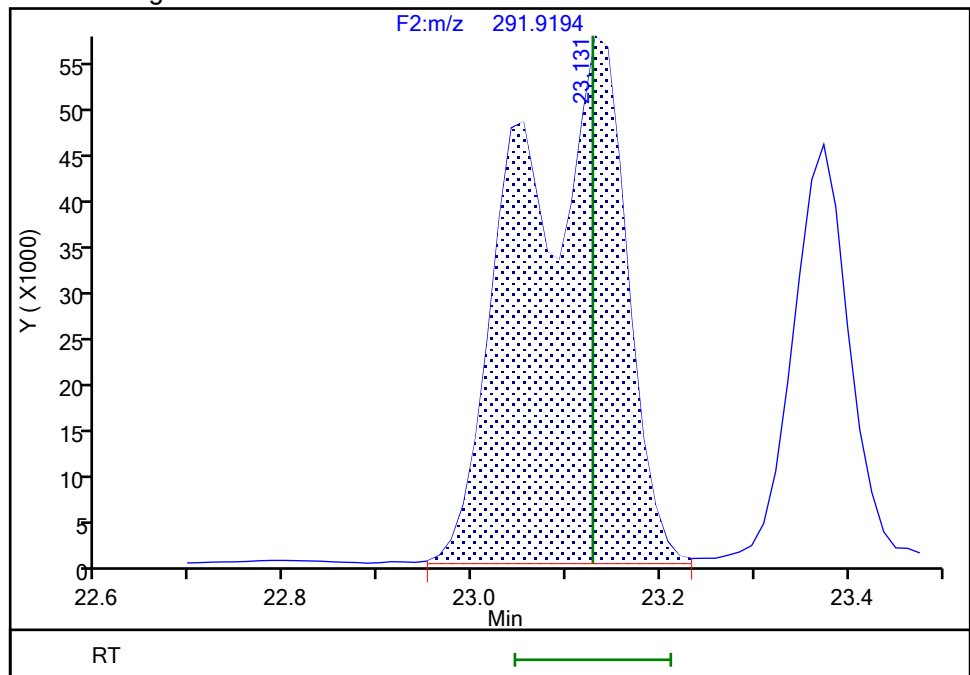
RT: 23.13  
Area: 234999  
Amount: 6.095820  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.13  
Area: 450602  
Amount: 9.812546  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:43:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

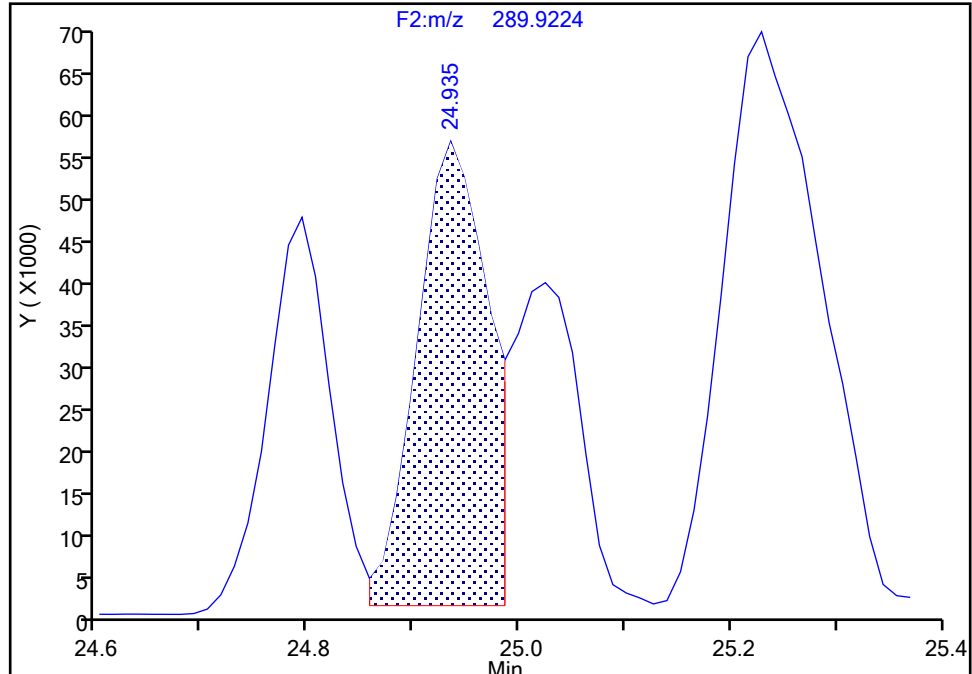
Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 1

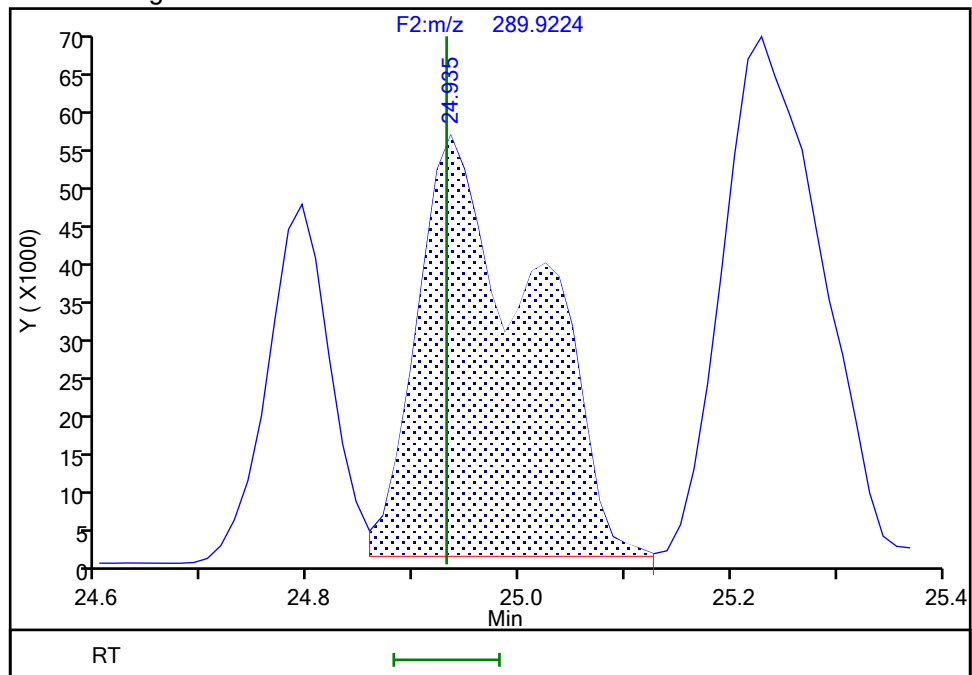
RT: 24.93  
Area: 254165  
Amount: 6.401675  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 423345  
Amount: 9.702556  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

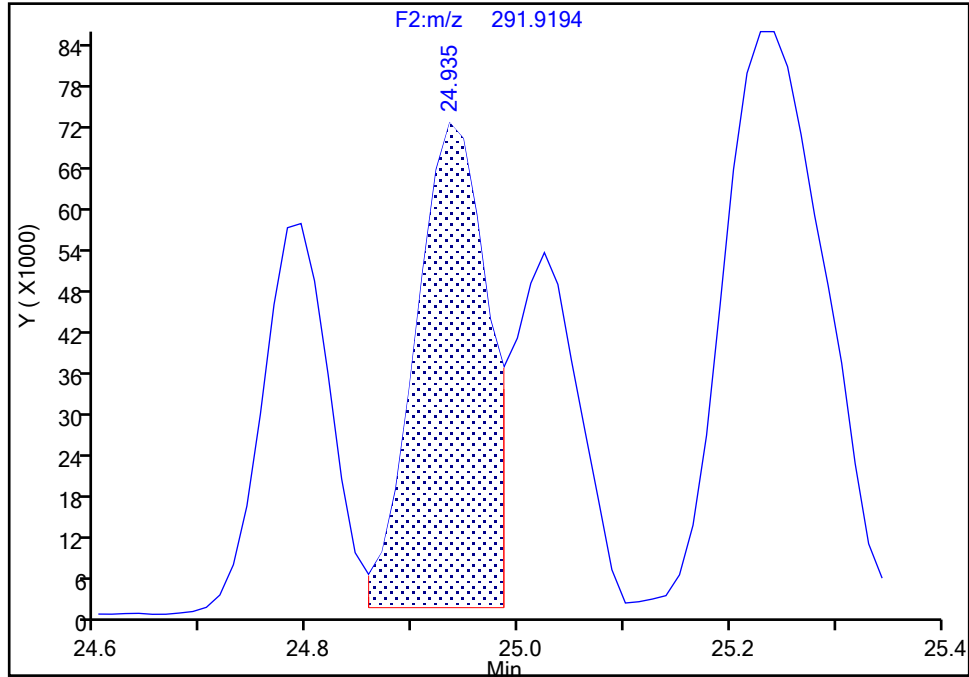
Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

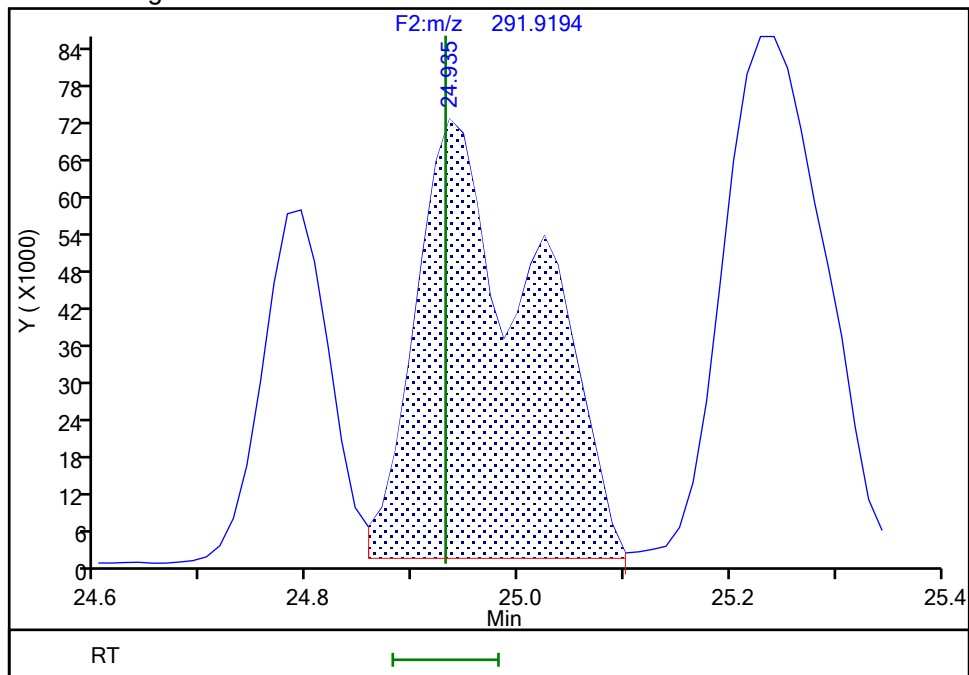
RT: 24.93  
Area: 330449  
Amount: 6.401675  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 551591  
Amount: 9.702556  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-1188  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

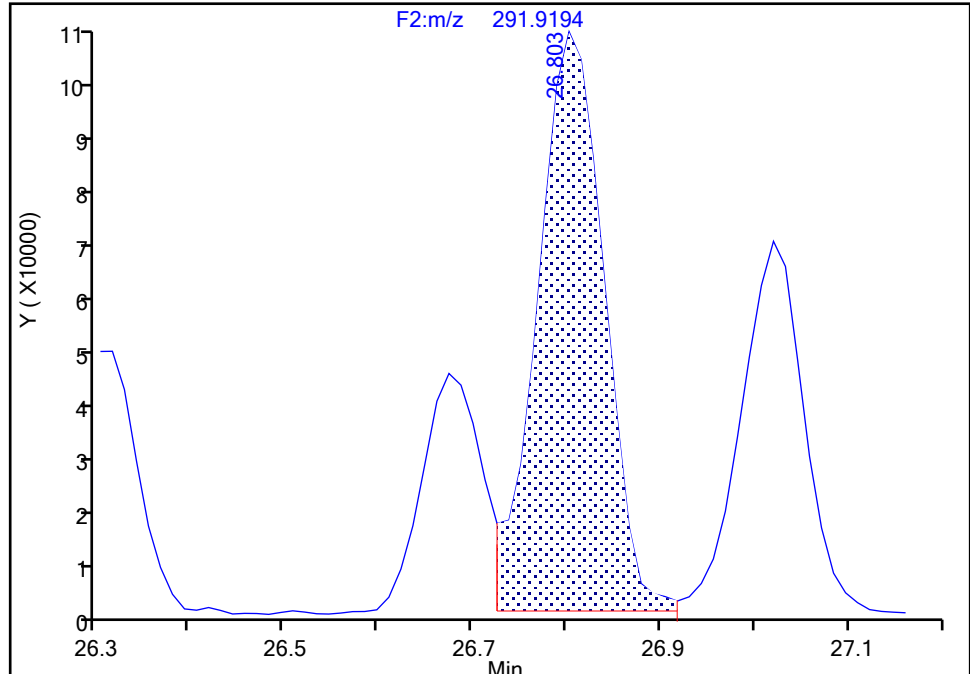
Detector F2(21.81 :35.54 )

PCB-40/41/71, CAS: STL02292

Signal: 2

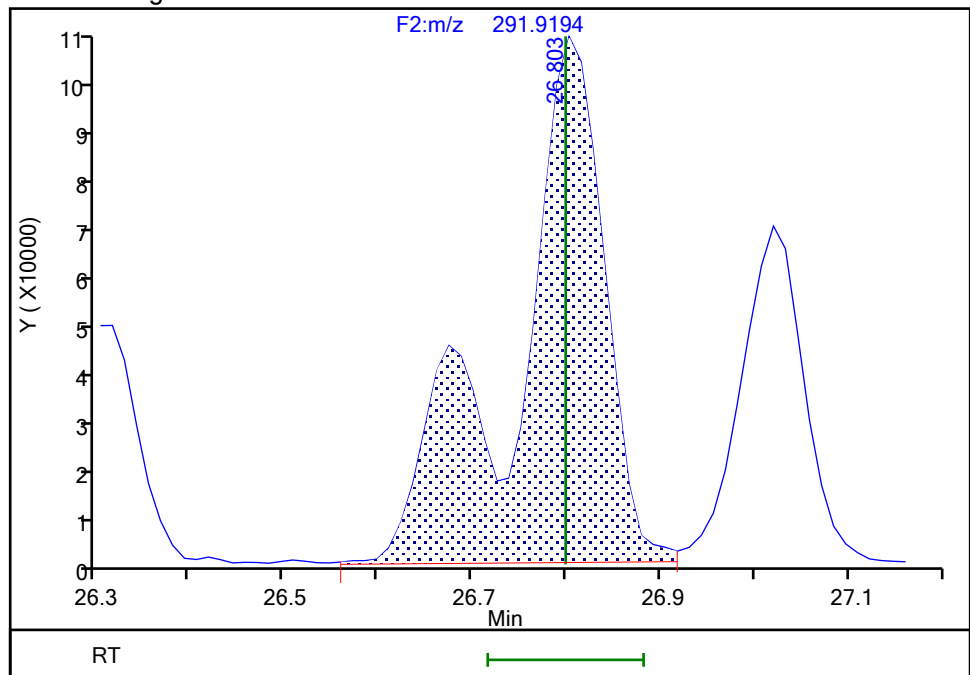
RT: 26.80  
Area: 516277  
Amount: 11.476659  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.80  
Area: 706287  
Amount: 14.423267  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

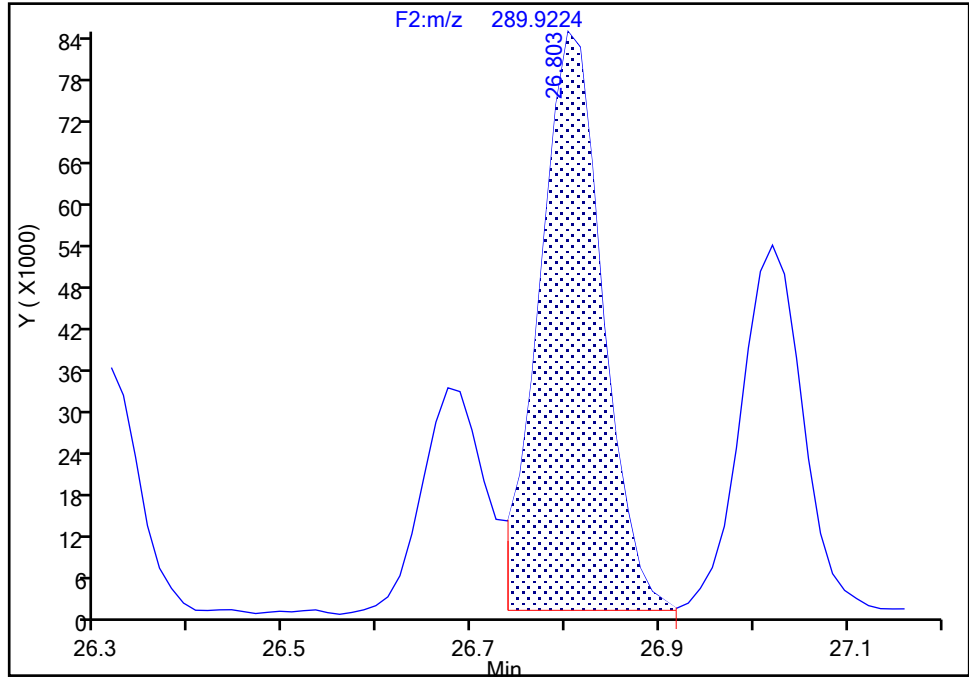
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-40/41/71, CAS: STL02292

Signal: 1

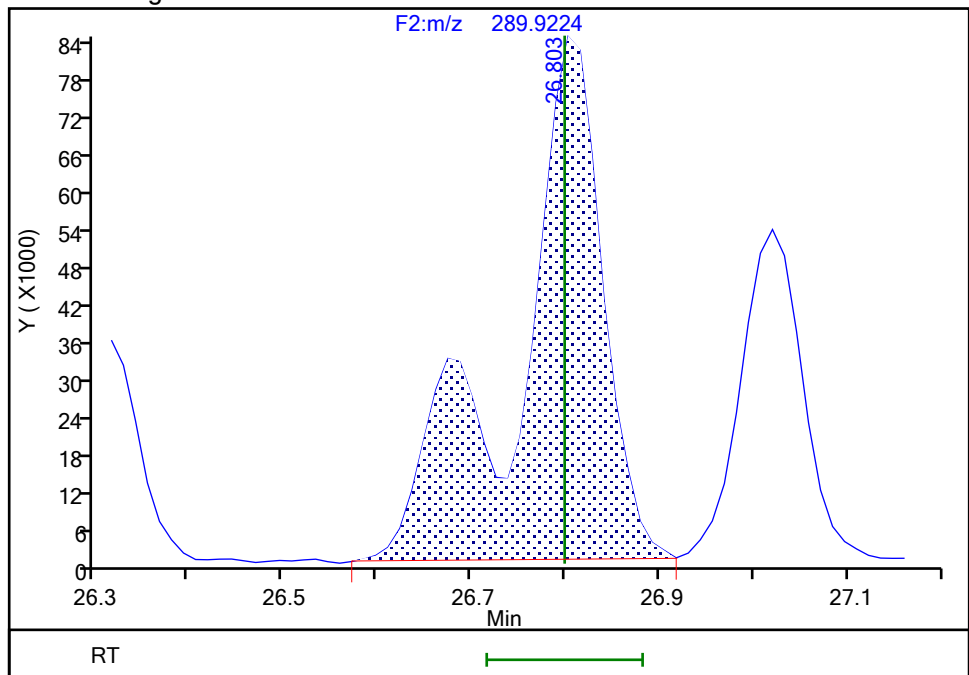
RT: 26.80  
Area: 387522  
Amount: 11.476659  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.80  
Area: 536815  
Amount: 14.423267  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

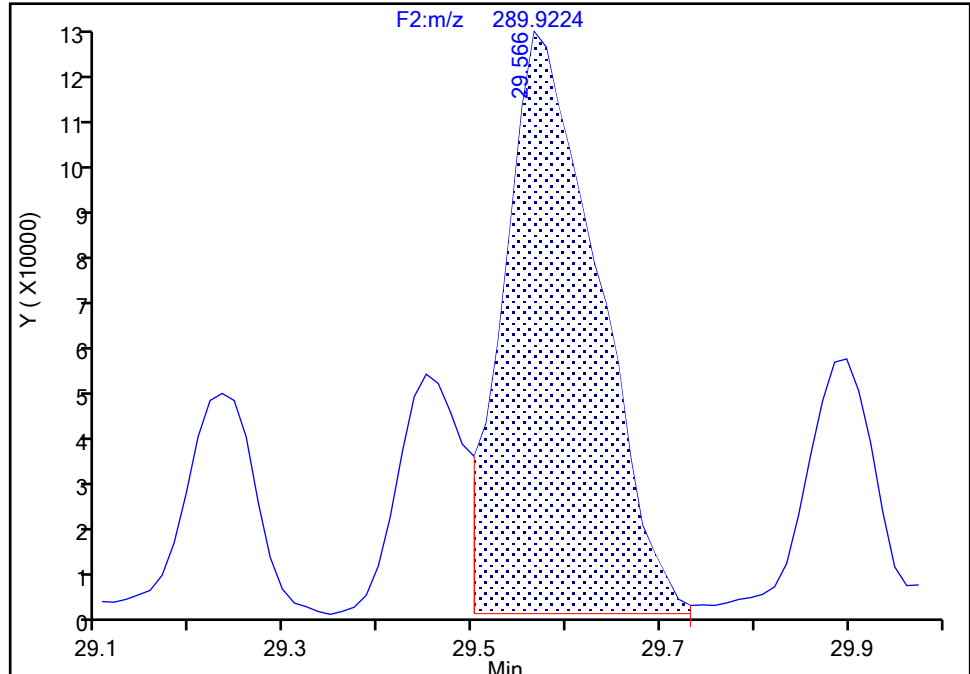
Detector F2(21.81 :35.54 )

**PCB-61/70/74/76, CAS: STL01808**

Signal: 1

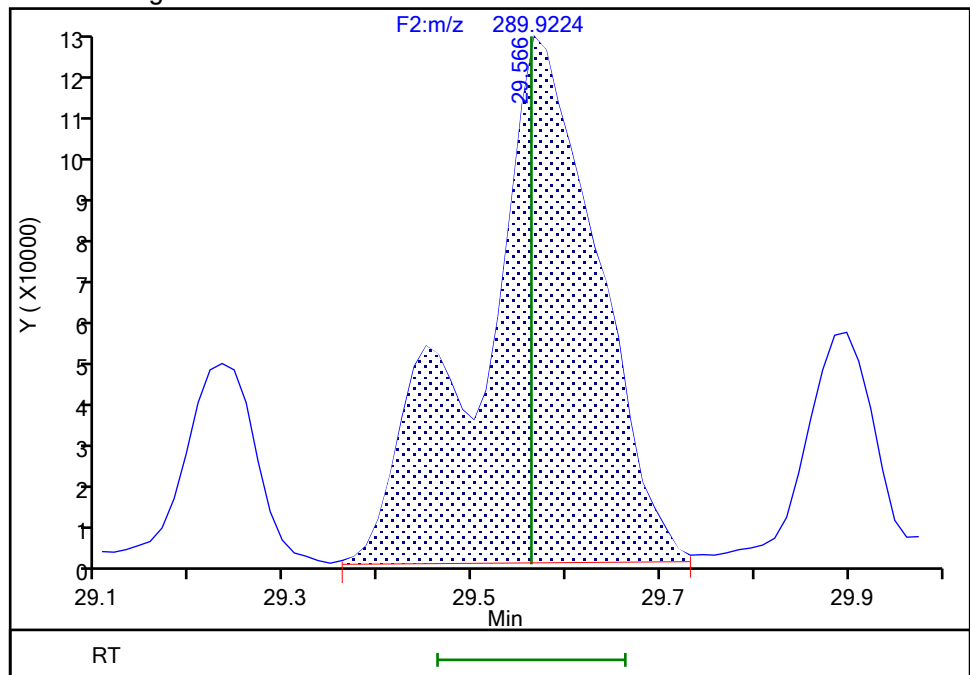
RT: 29.57  
Area: 824311  
Amount: 18.540425  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.57  
Area: 1056982  
Amount: 19.171899  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:44:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

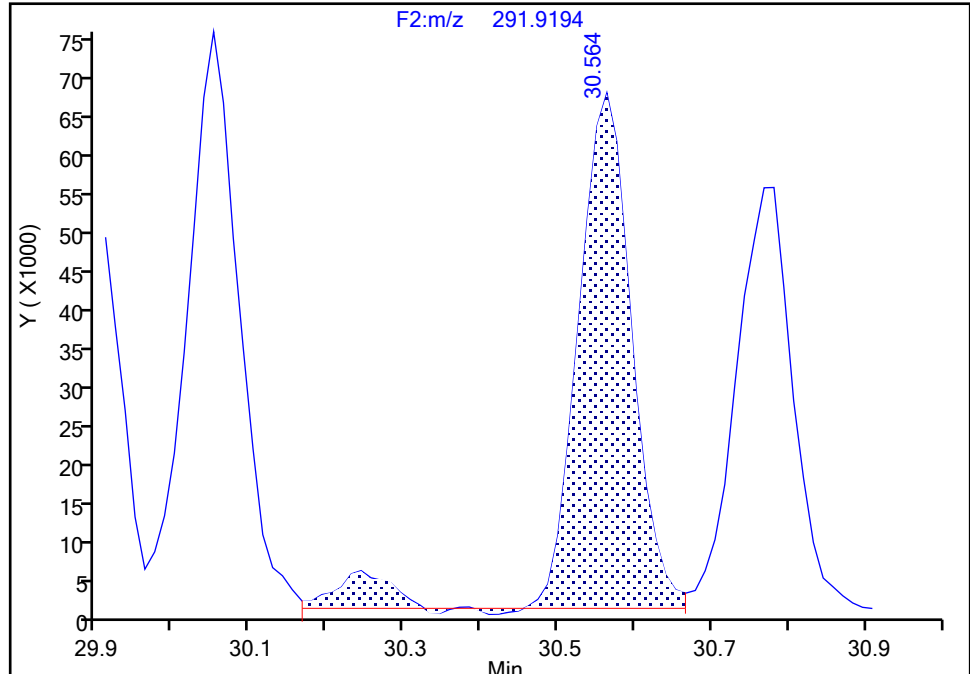
F2(21.81 :35.54 )

**PCB-56, CAS: 41464-43-1**

Signal: 2

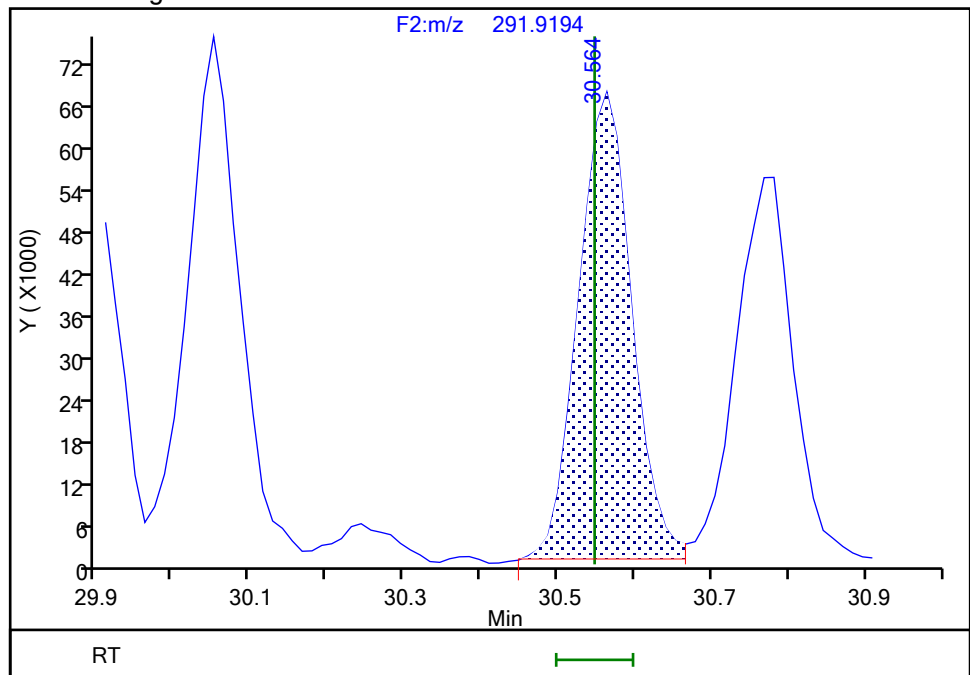
RT: 30.56  
Area: 341256  
Amount: 4.942673  
Amount Units: pg/ul

## Processing Integration Results



RT: 30.56  
Area: 318235  
Amount: 4.811515  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:45:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

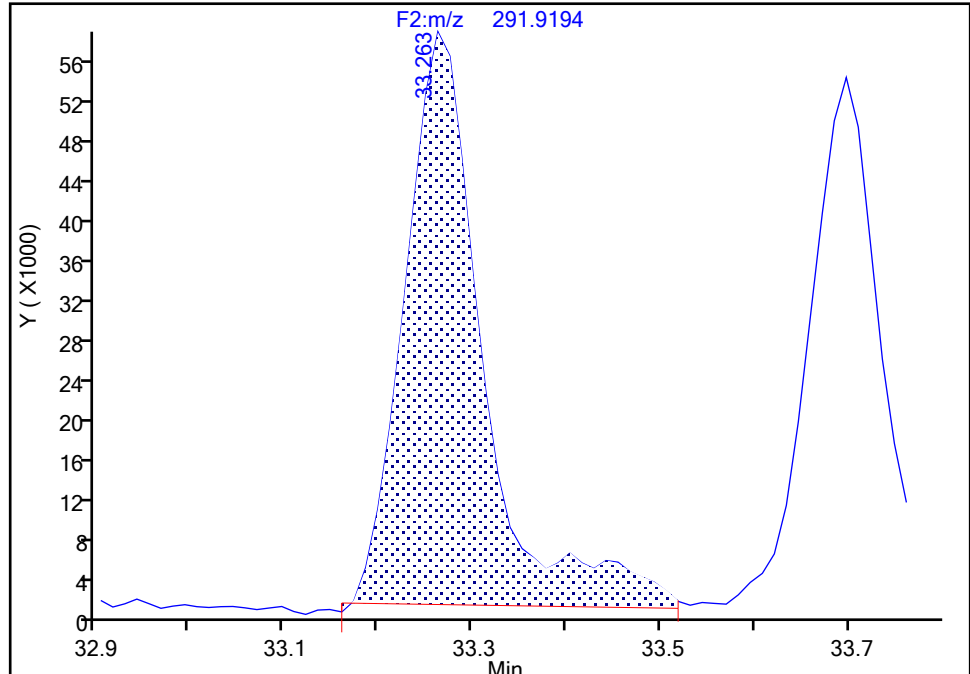
Detector F2(21.81 :35.54 )

**PCB-78, CAS: 70362-49-1**

Signal: 2

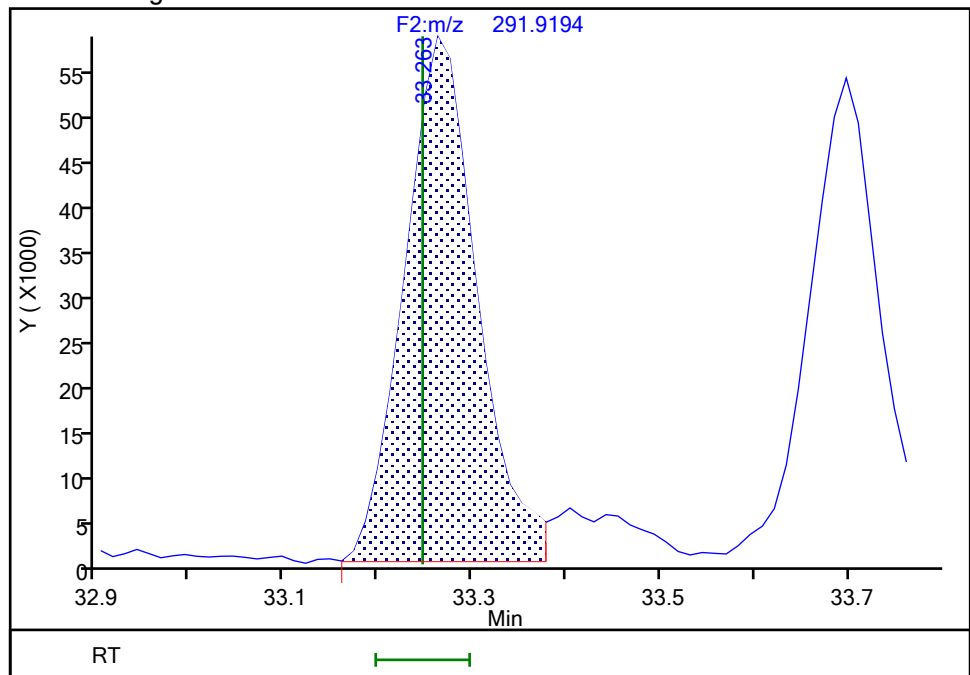
RT: 33.26  
Area: 334181  
Amount: 4.918346  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.26  
Area: 311315  
Amount: 4.884871  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:45:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

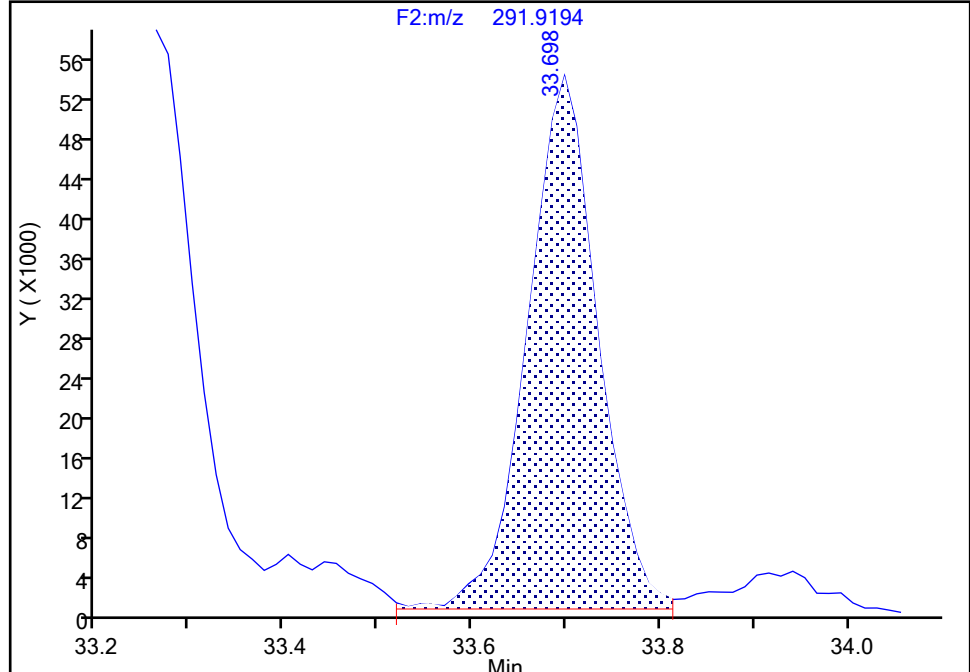
Detector F2(21.81 :35.54 )

**PCB-81, CAS: 70362-50-4**

Signal: 2

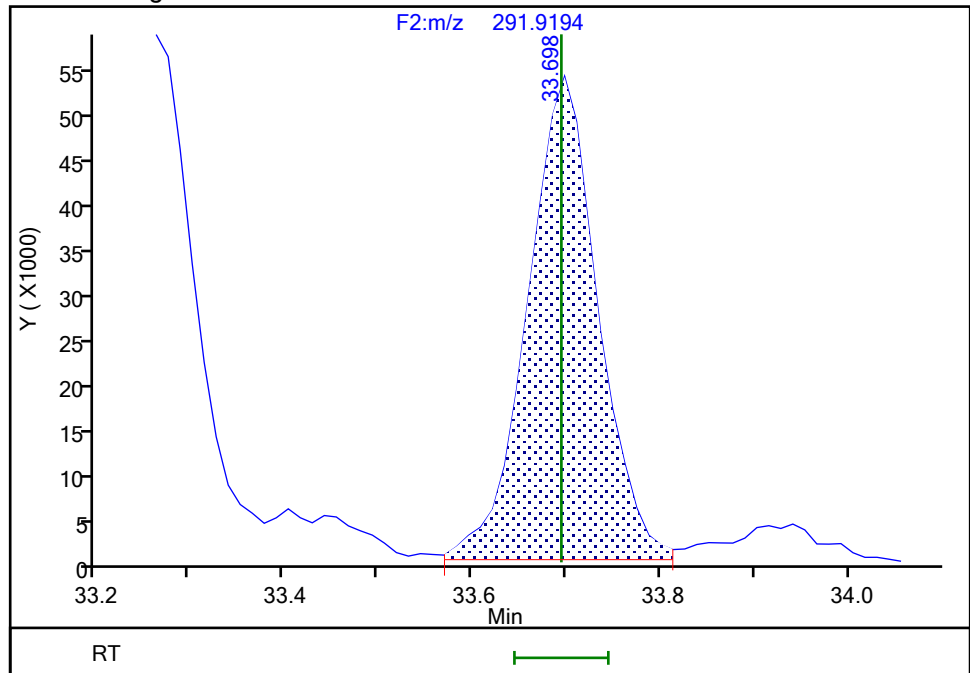
RT: 33.70  
Area: 278092  
Amount: 4.973199  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.70  
Area: 277706  
Amount: 4.914192  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:45:31 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

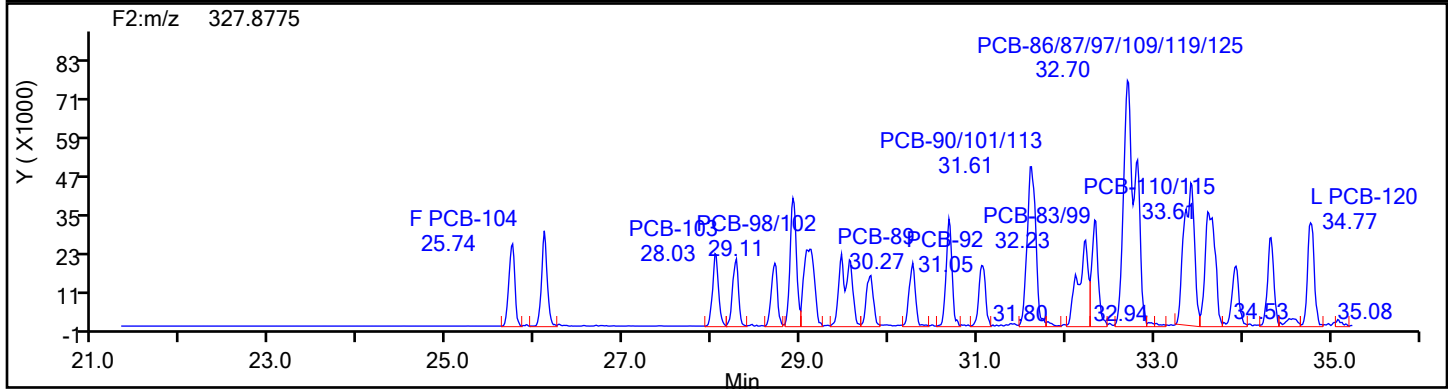
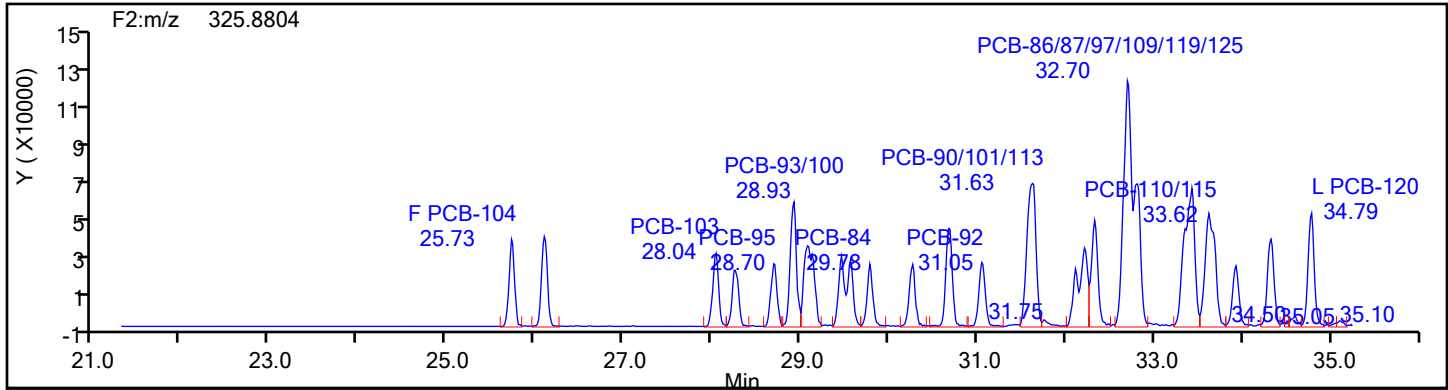
Worklist#: 87130

Sample Line#: 3

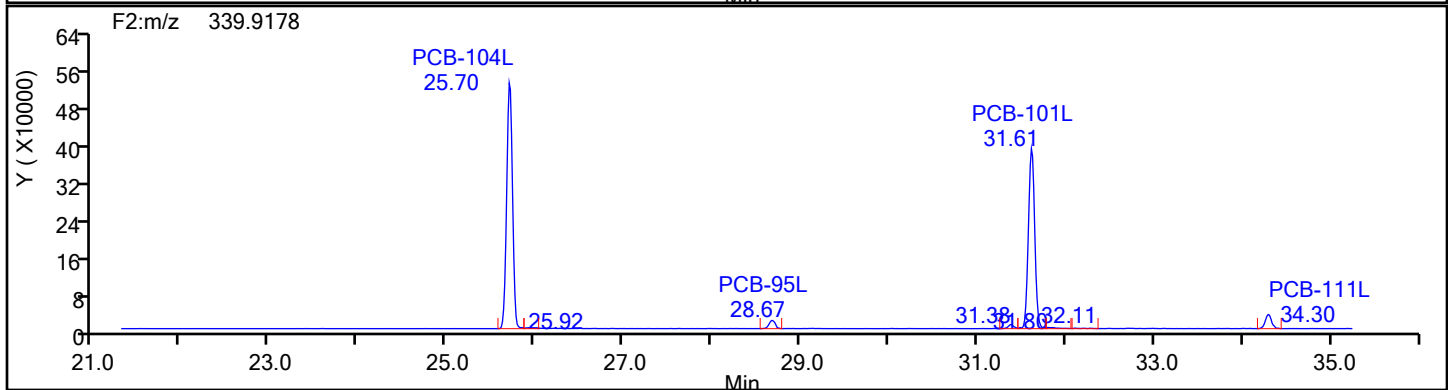
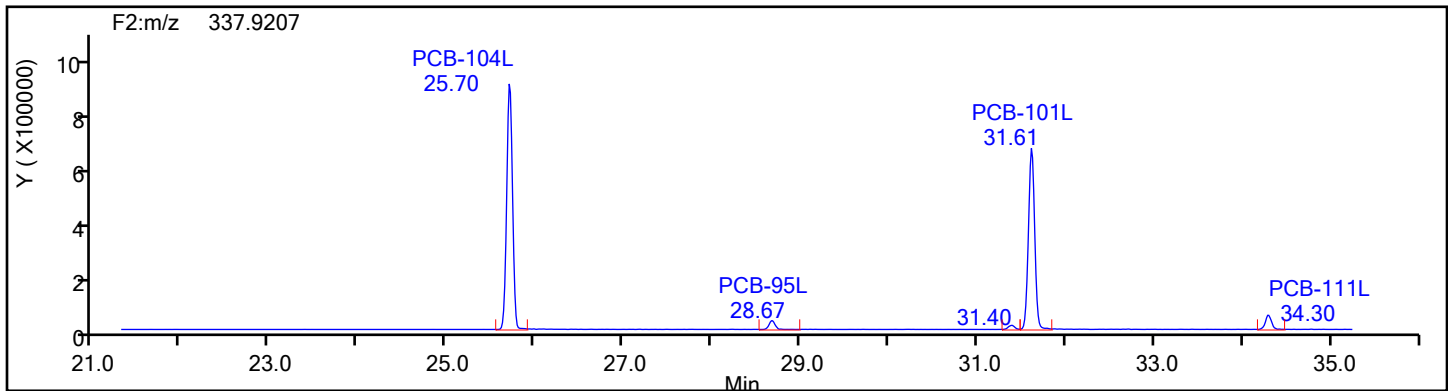
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



## PePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

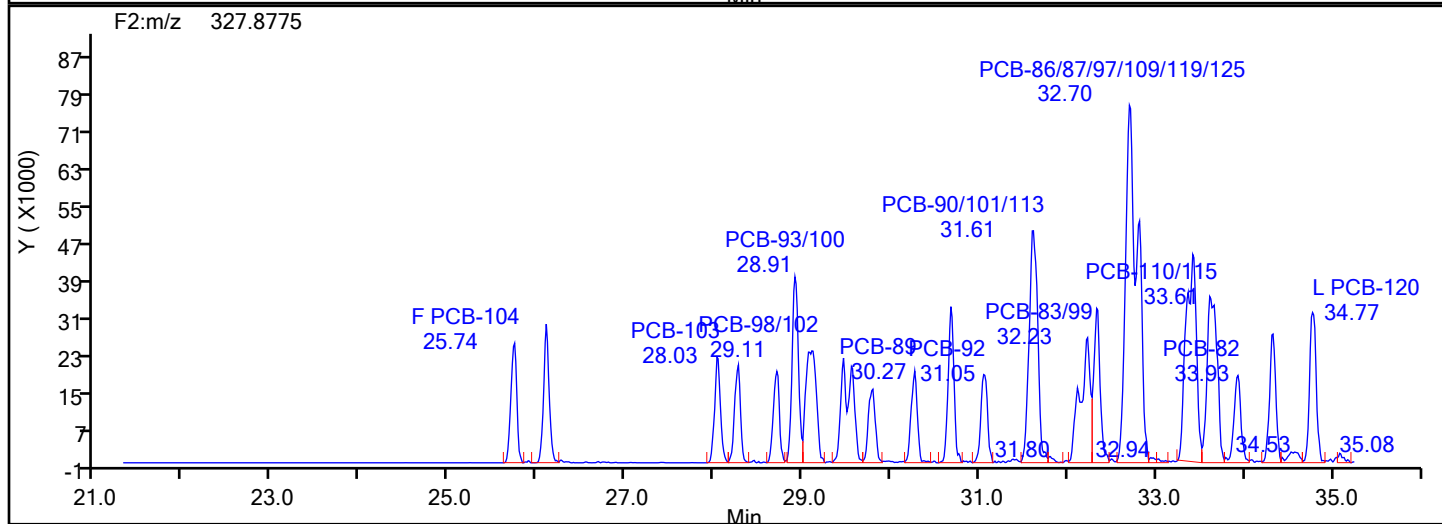
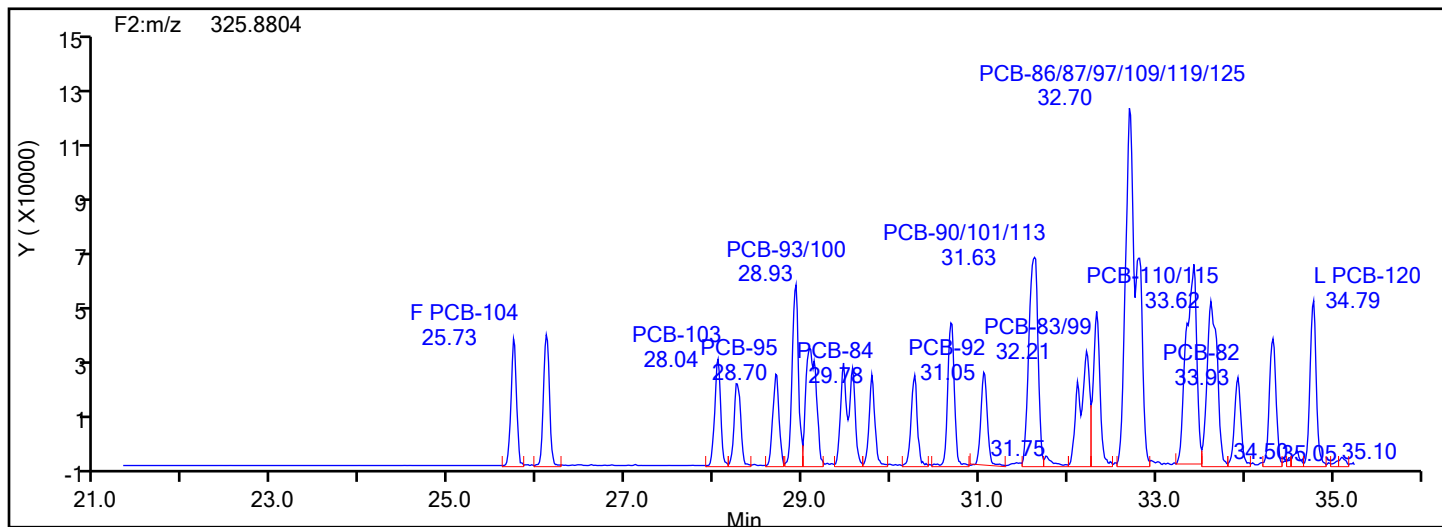
Worklist#: 87130

Sample Line#: 3

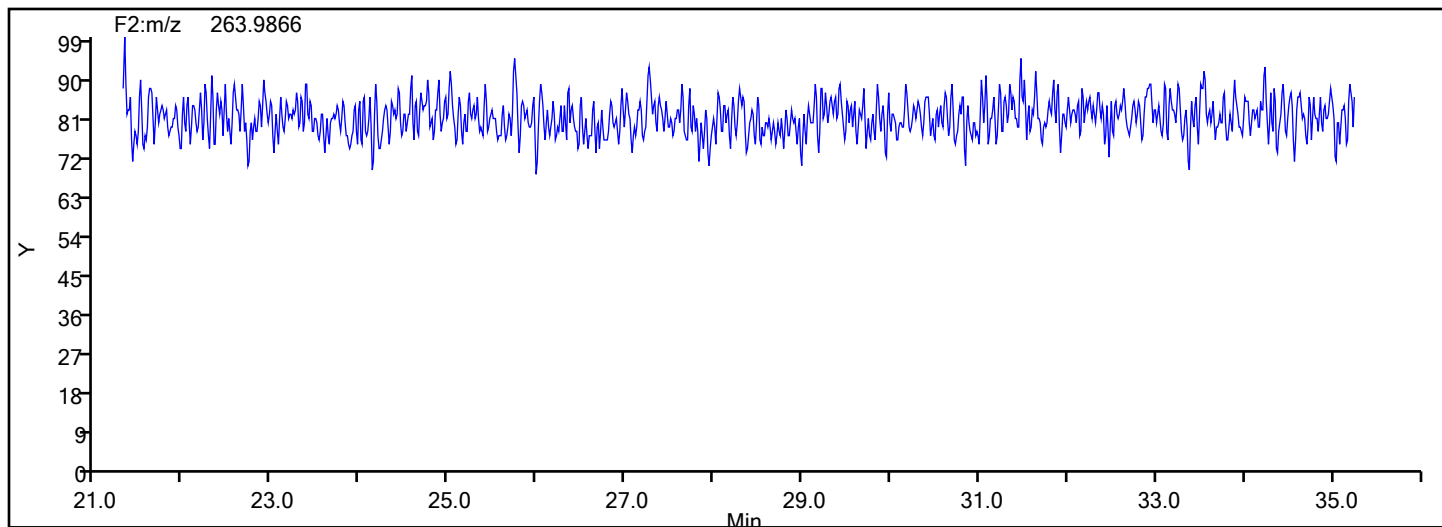
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



## PePCB F2 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d		
Injection Date:	31-May-2024 18:00:00	Instrument ID:	D2D
Lims ID:	IC L3		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl ( 0.25 mm)	Detector	F2(21.81 :35.5

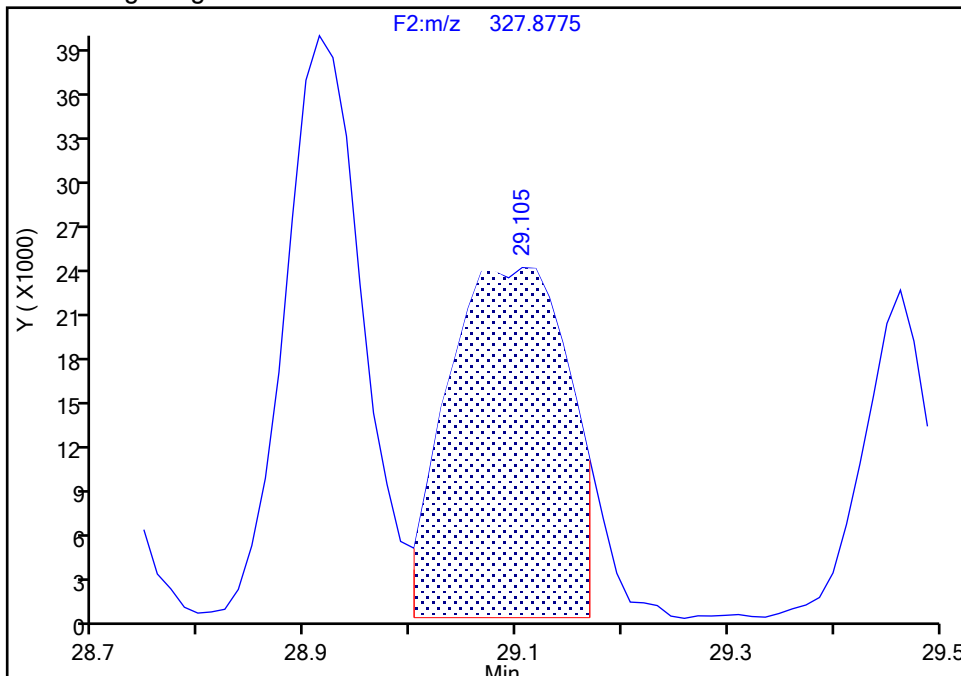
```

ALS Bottle#:      0           Worklist Smp#:      3
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F2(21.81 :35.54 )

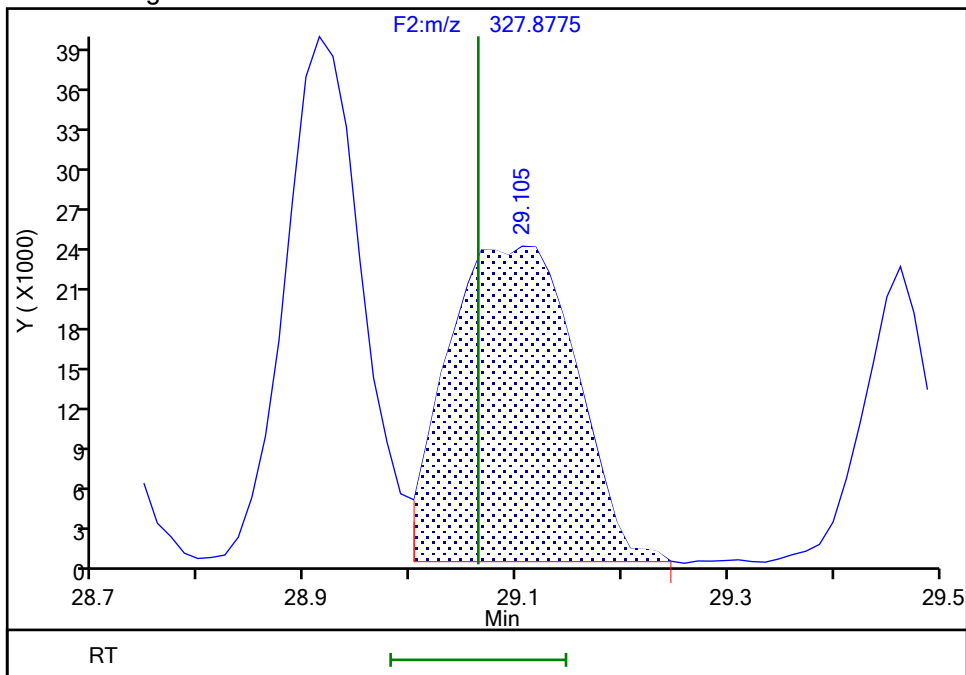
```

Signal: 2

RT: 29.11  
Area: 186251  
Amount: 9.475668  
Amount Units: pg/ul



RT: 29.11  
Area: 199350  
Amount: 10.104036  
Amount Units: pg/ul



Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

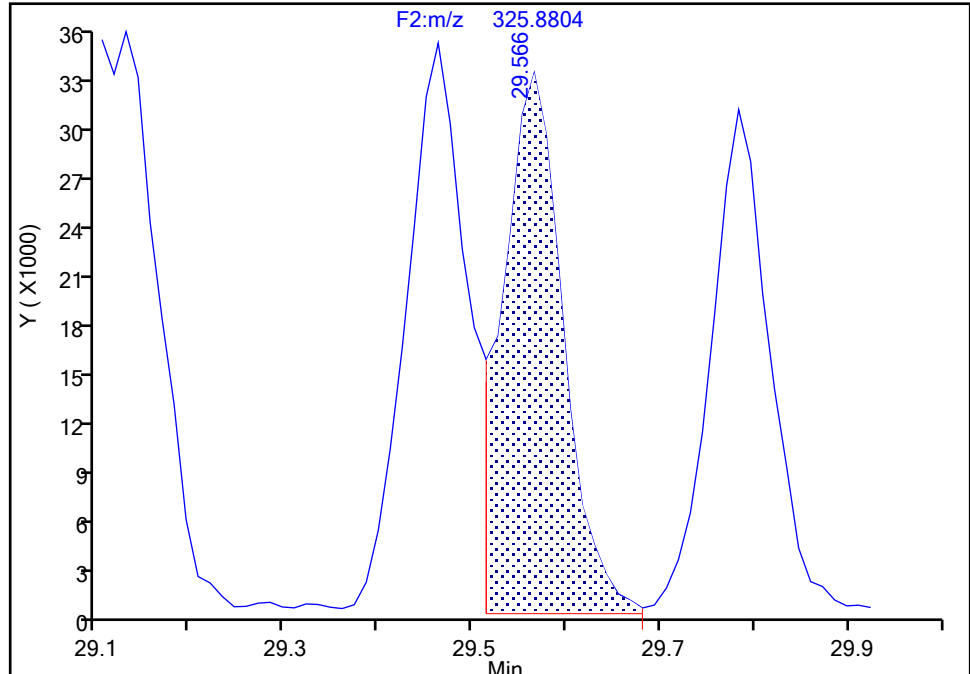
Detector F2(21.81 :35.54 )

**PCB-88/91, CAS: STL01812**

Signal: 1

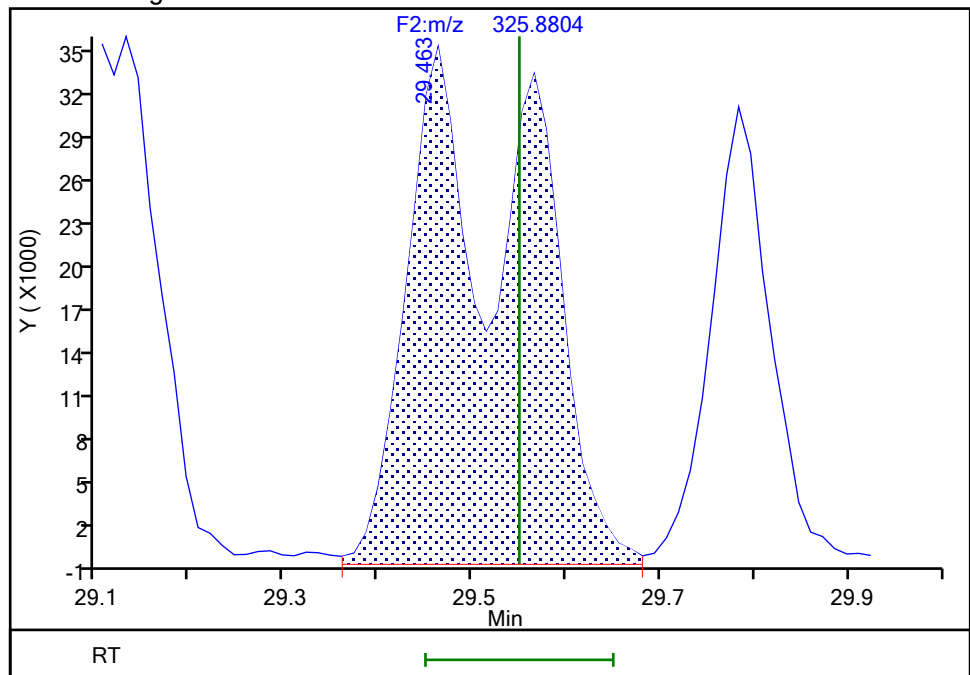
RT: 29.57  
Area: 147771  
Amount: 5.359548  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.46  
Area: 306322  
Amount: 9.844164  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

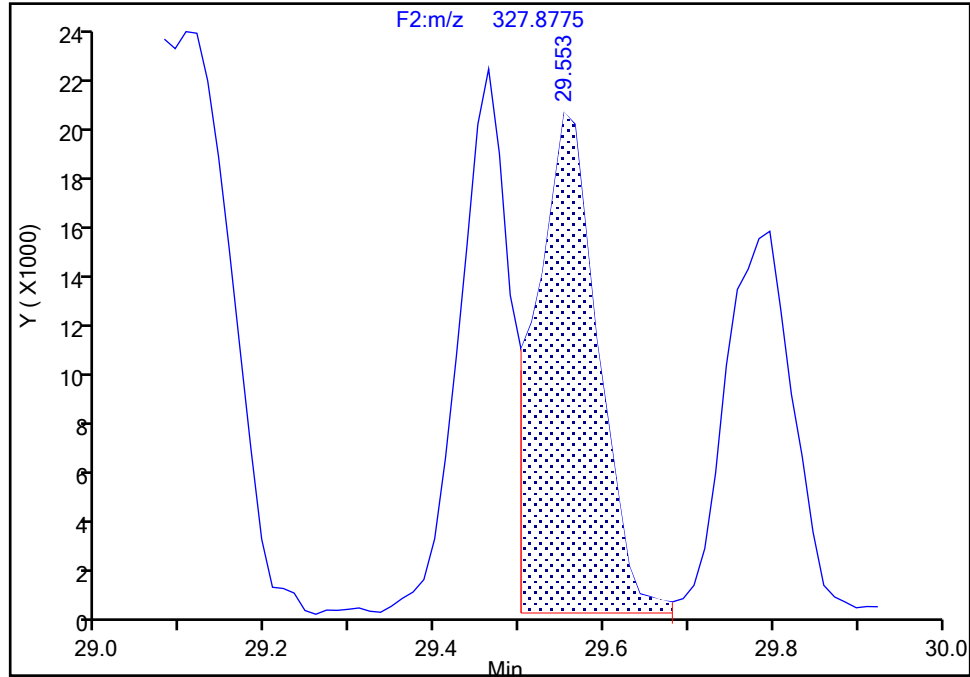
Detector F2(21.81 :35.54 )

**PCB-88/91, CAS: STL01812**

Signal: 2

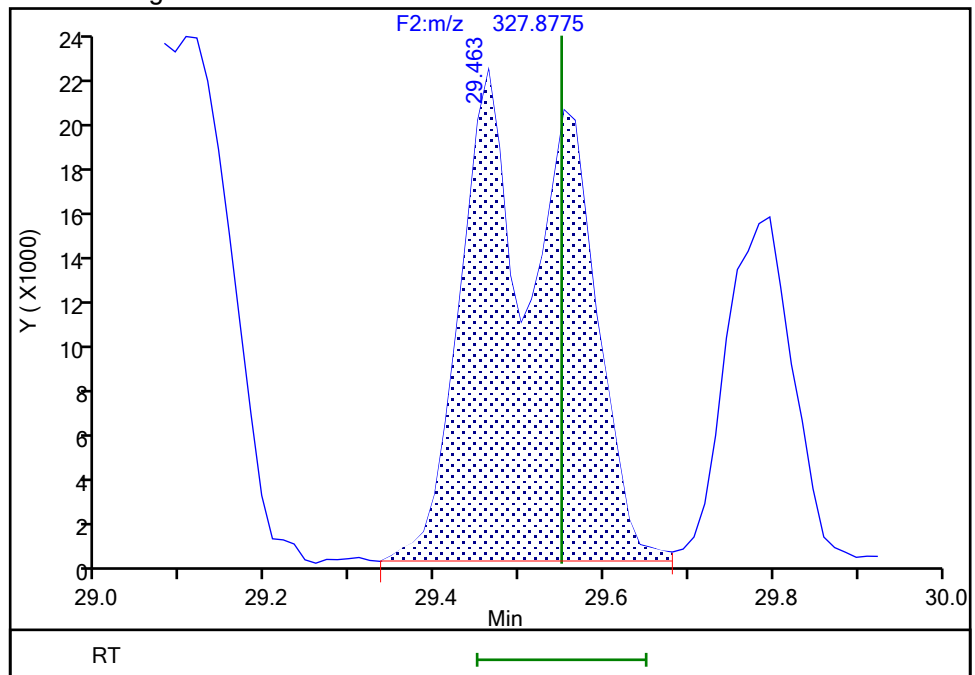
RT: 29.55  
Area: 102135  
Amount: 5.359548  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.46  
Area: 191203  
Amount: 9.844164  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F002024199

9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

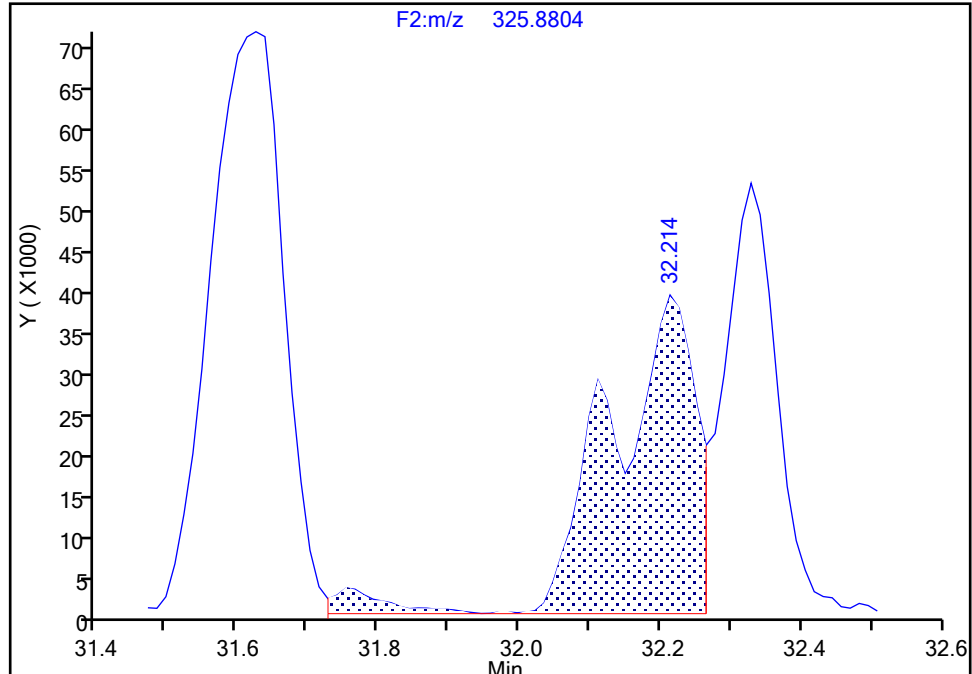
F2(21.81 :35.54 )

**PCB-83/99, CAS: STL01809**

Signal: 1

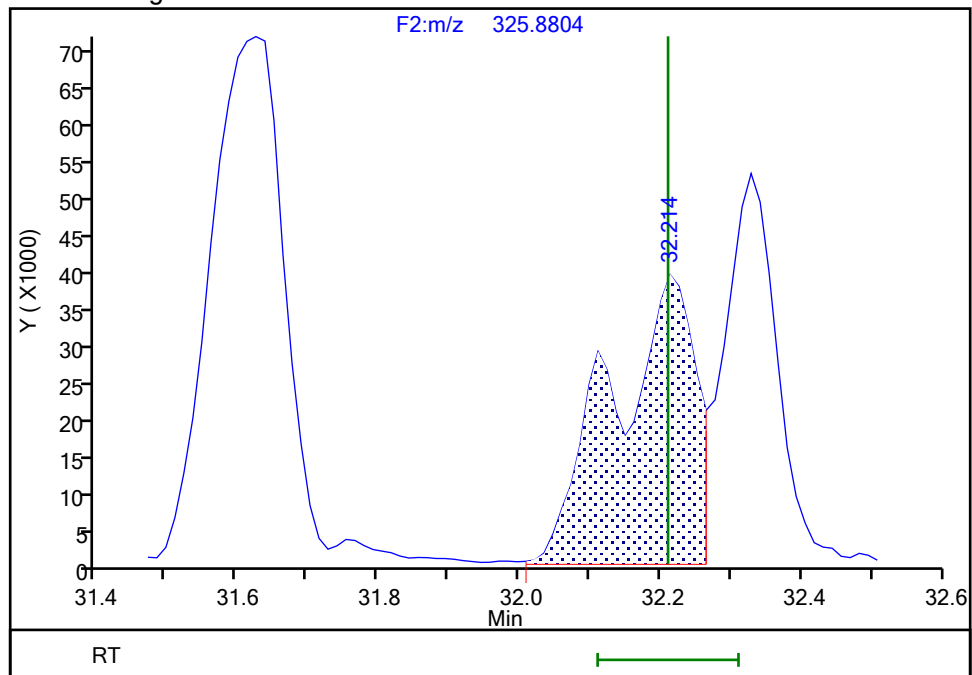
RT: 32.21  
Area: 334118  
Amount: 9.973734  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.21  
Area: 315858  
Amount: 10.000444  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:40 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

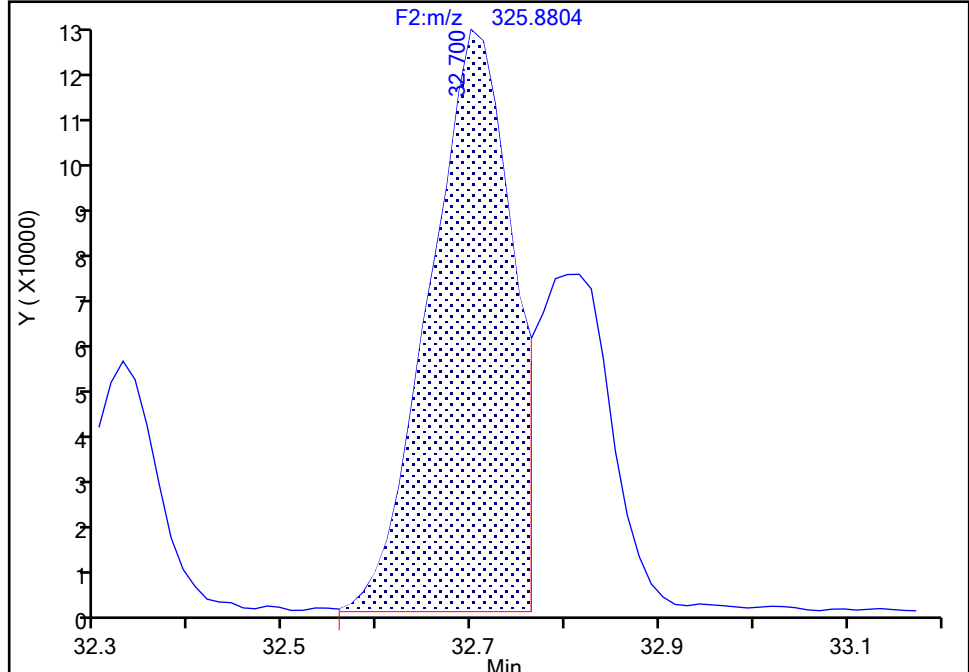
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

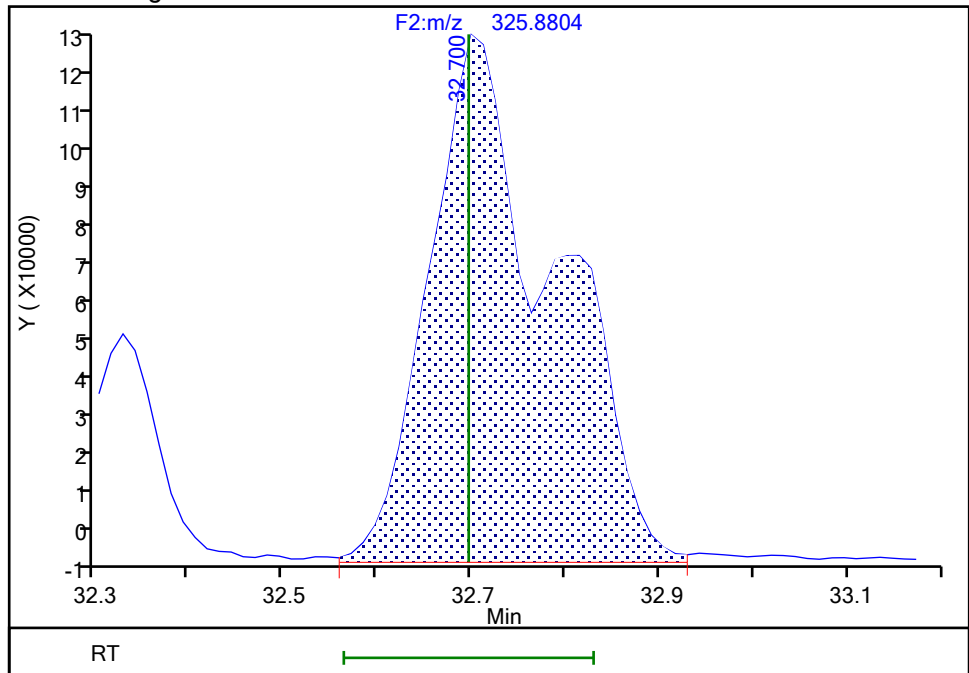
RT: 32.70  
Area: 743812  
Amount: 19.598860  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.70  
Area: 1133108  
Amount: 27.958304  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:46:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

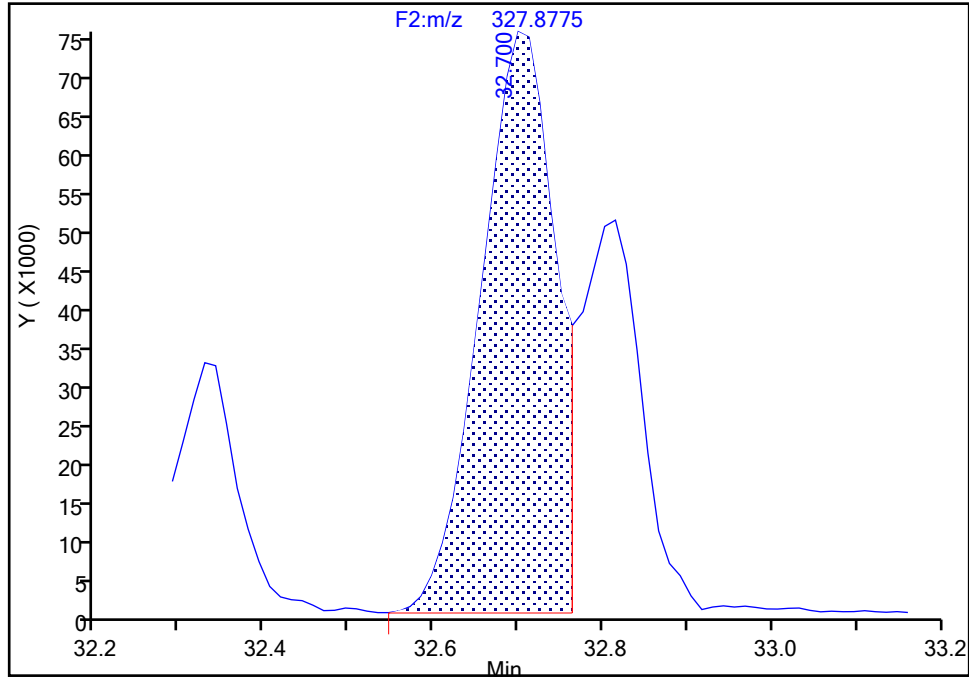
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-86/87/97/109/119/125, CAS: STL02295**

Signal: 2

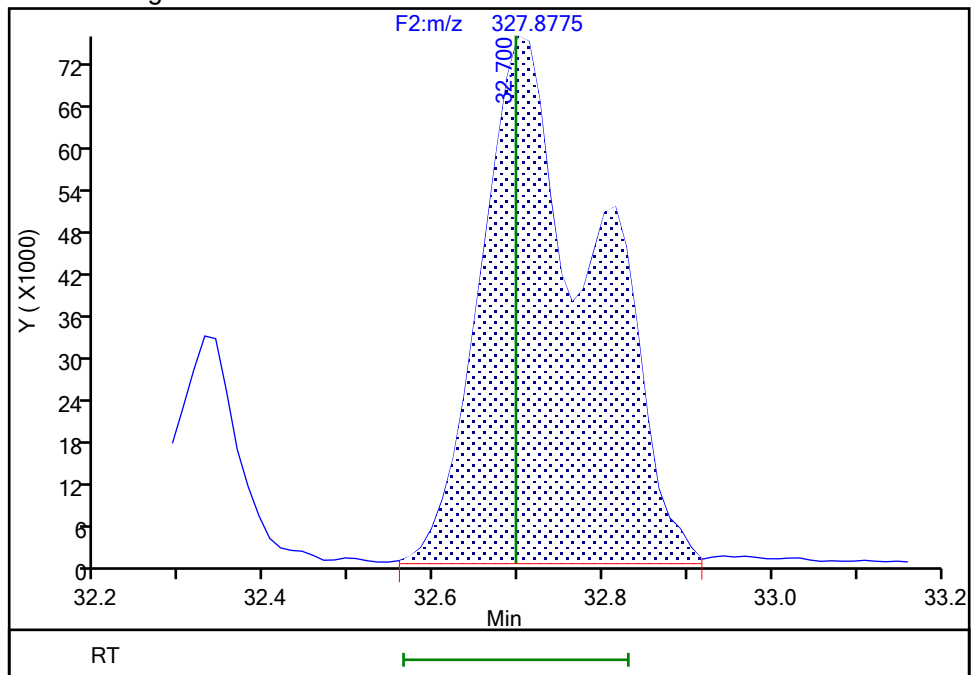
RT: 32.70  
Area: 461152  
Amount: 19.598860  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.70  
Area: 713670  
Amount: 27.958304  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04202  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

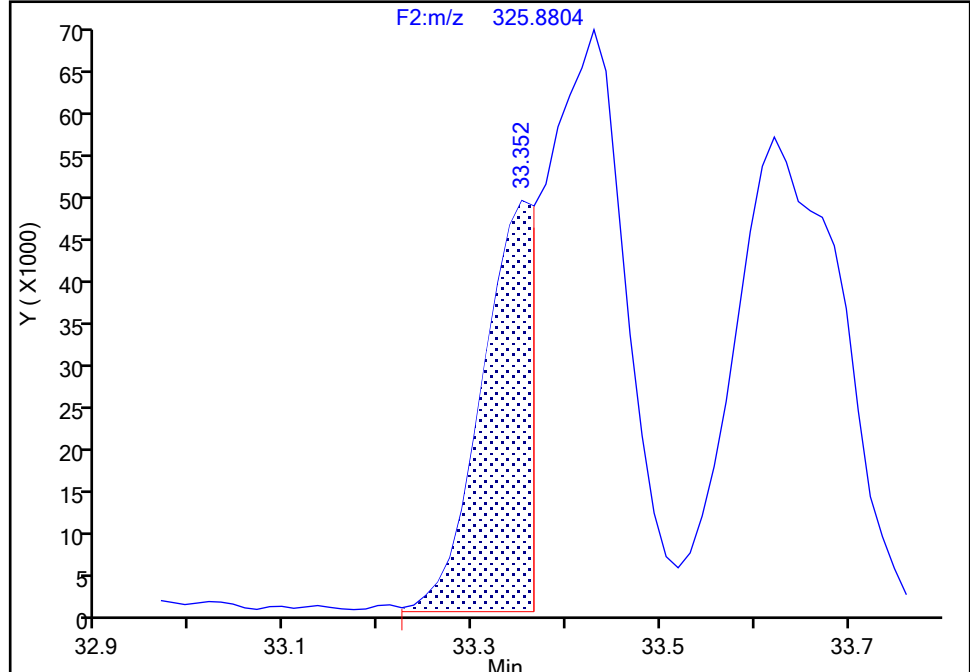
F2(21.81 :35.54 )

**PCB-85/116/117, CAS: STL01810**

Signal: 1

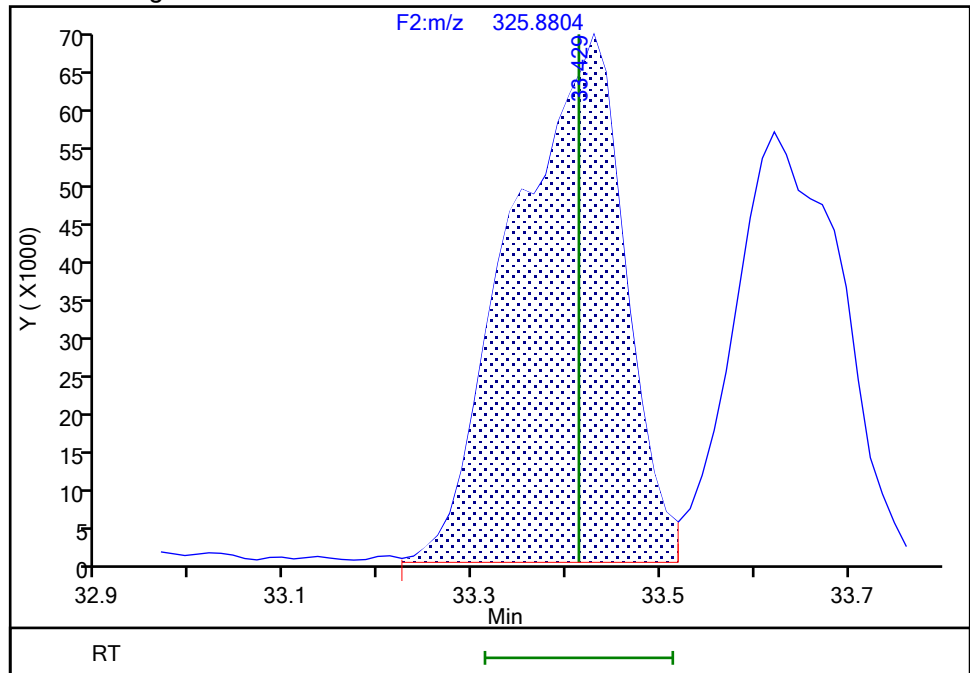
RT: 33.35  
Area: 180066  
Amount: 5.936423  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.43  
Area: 572951  
Amount: 14.293951  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

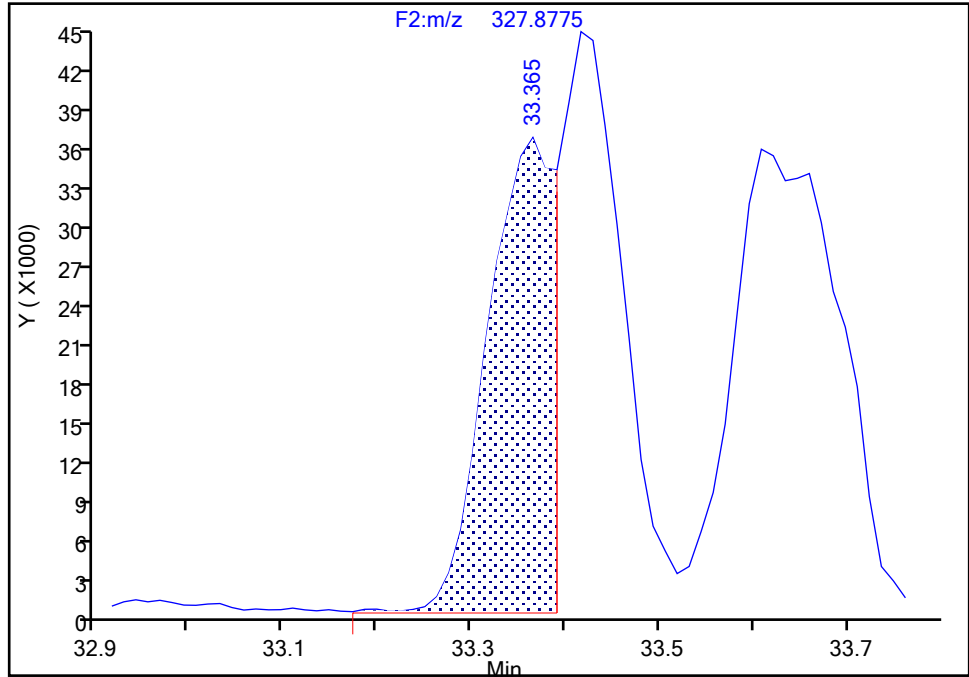
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-85/116/117, CAS: STL01810

Signal: 2

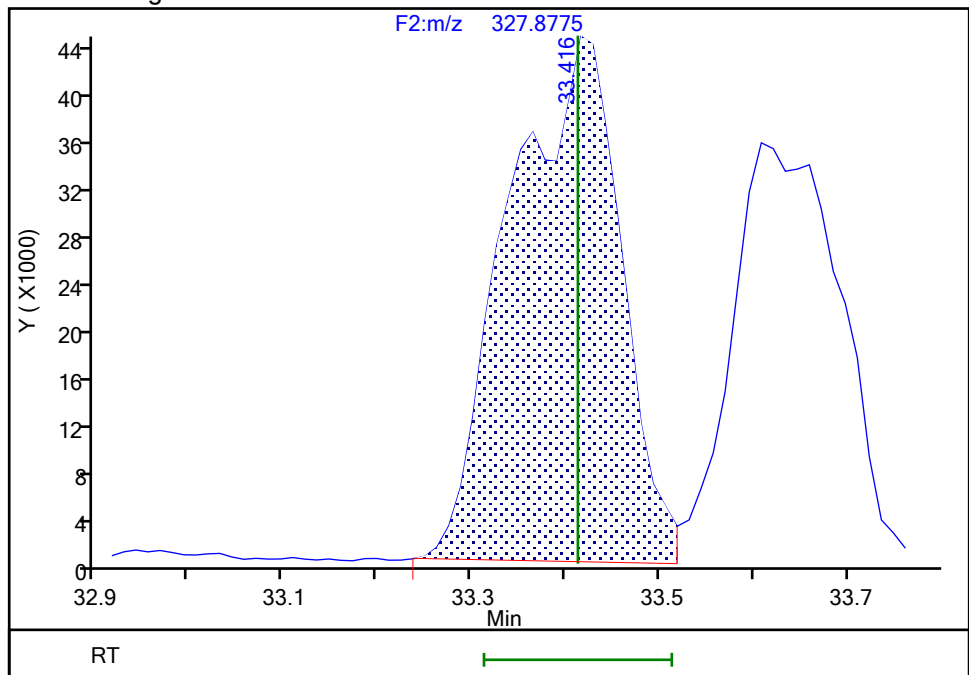
RT: 33.37  
Area: 172825  
Amount: 5.936423  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.42  
Area: 365388  
Amount: 14.293951  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04204  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

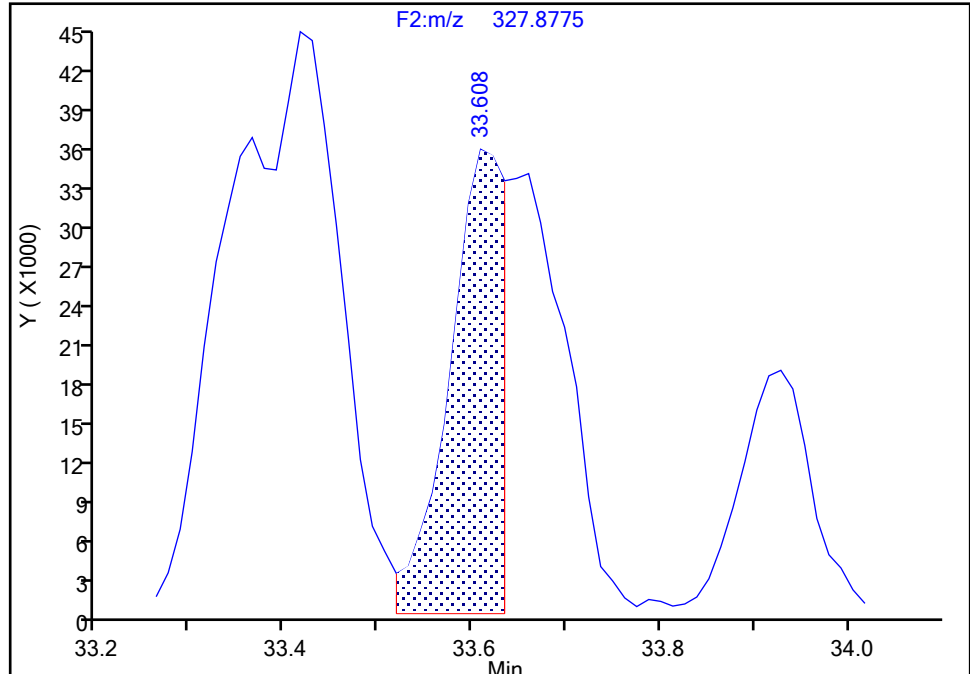
Detector F2(21.81 :35.54 )

**PCB-110/115, CAS: STL01826**

Signal: 2

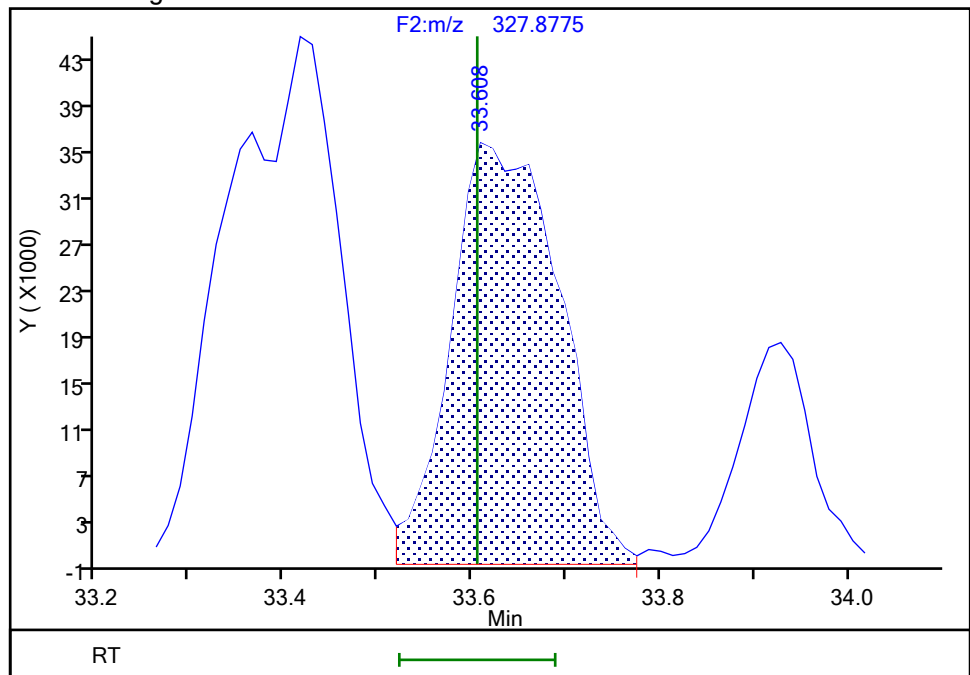
RT: 33.61  
Area: 135008  
Amount: 7.549598  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.61  
Area: 283256  
Amount: 9.765207  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

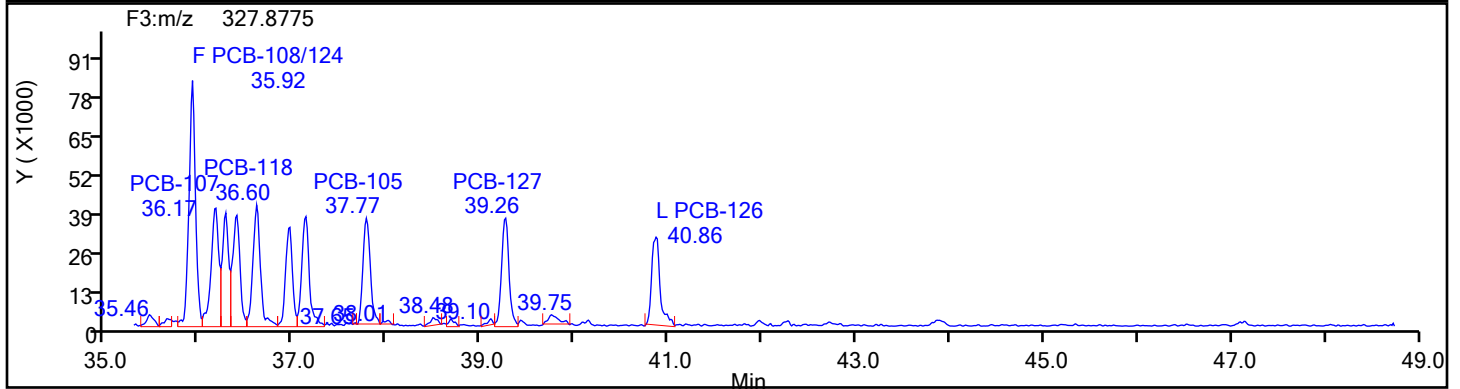
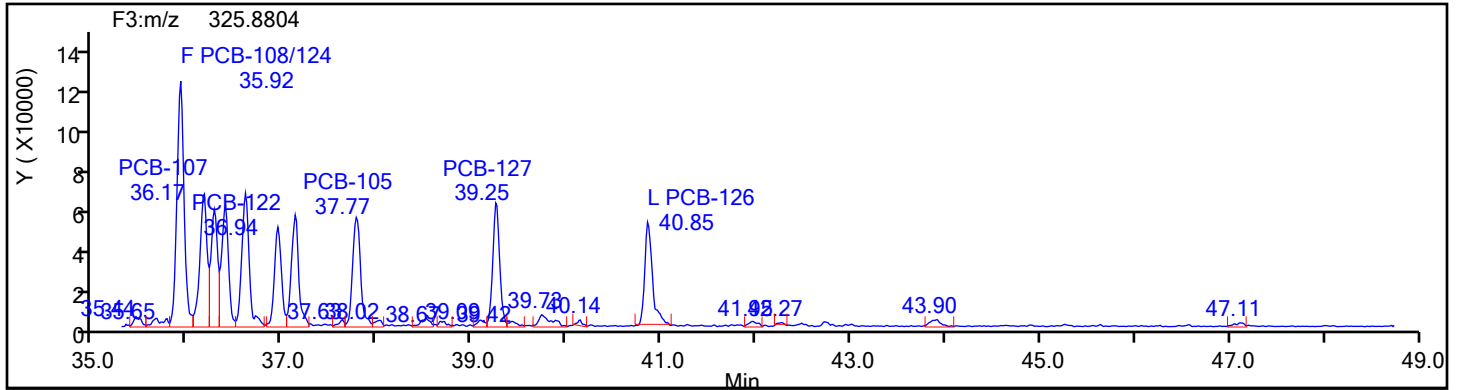
Worklist#: 87130

Sample Line#: 3

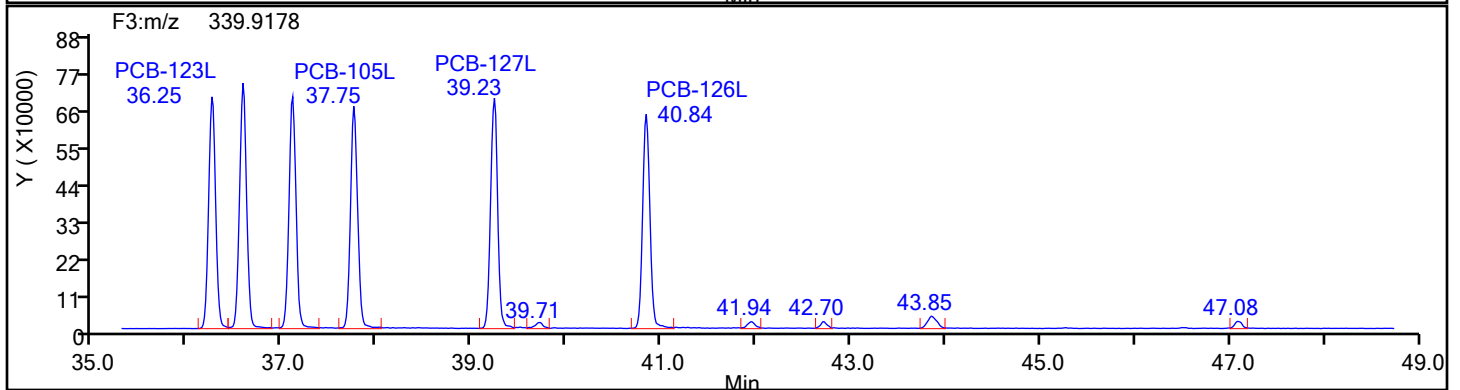
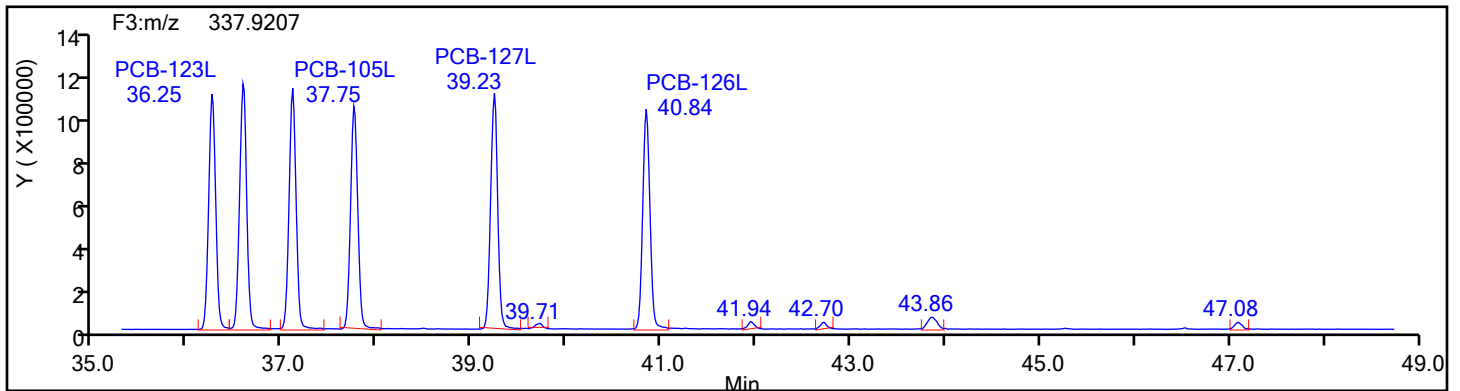
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

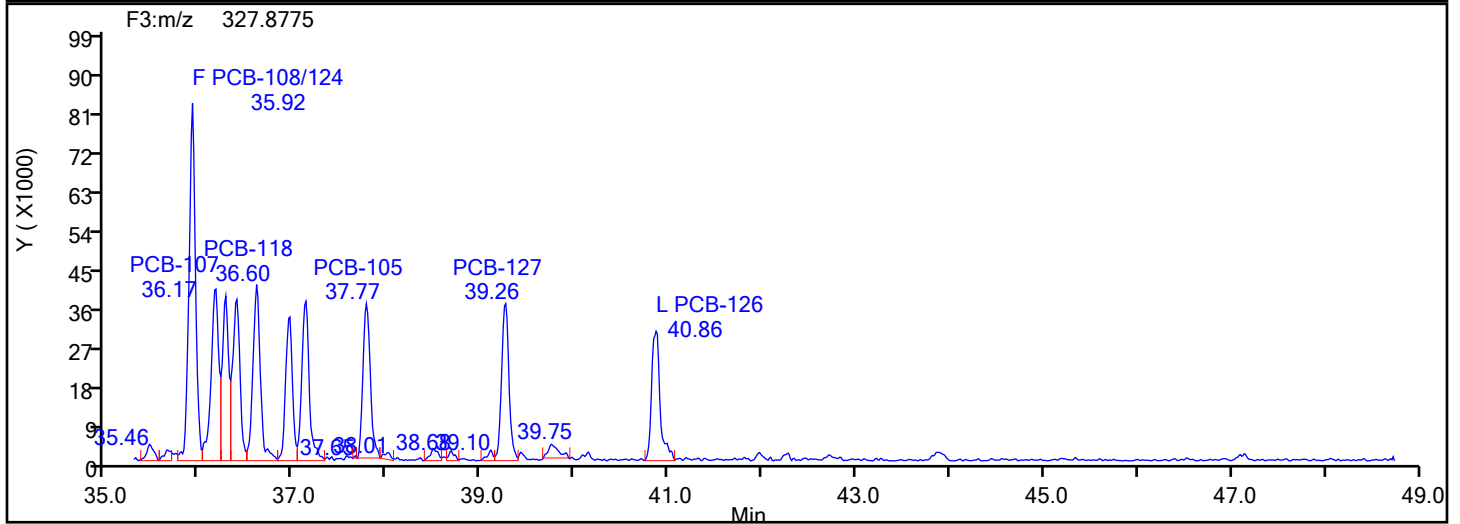
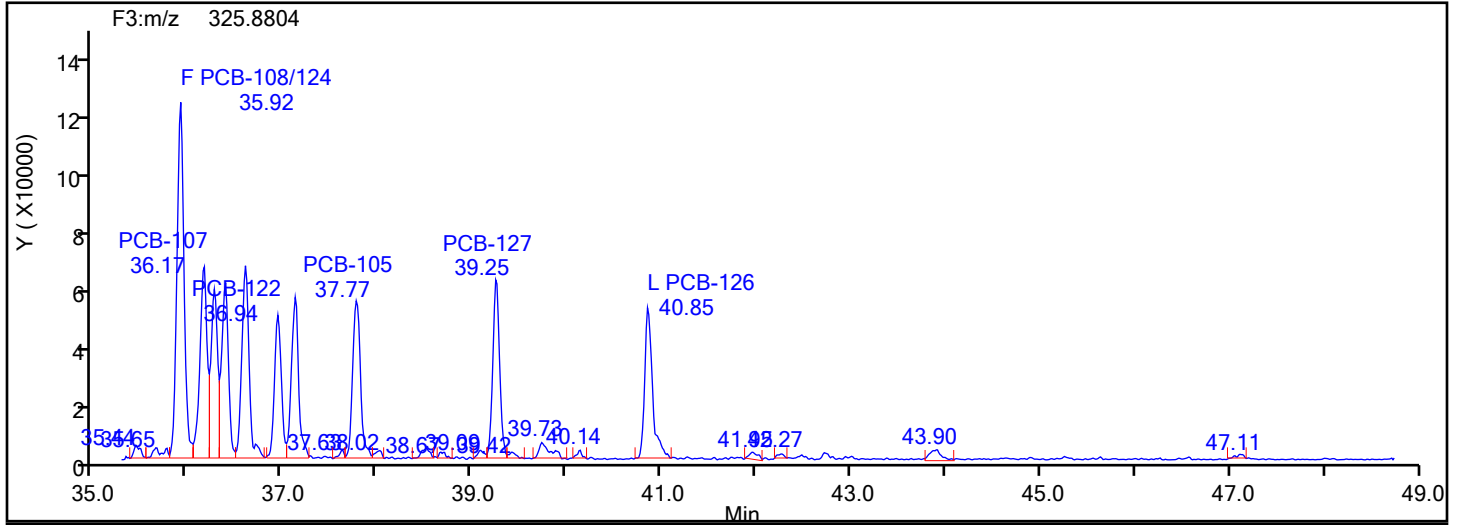
Worklist#: 87130

Sample Line#: 3

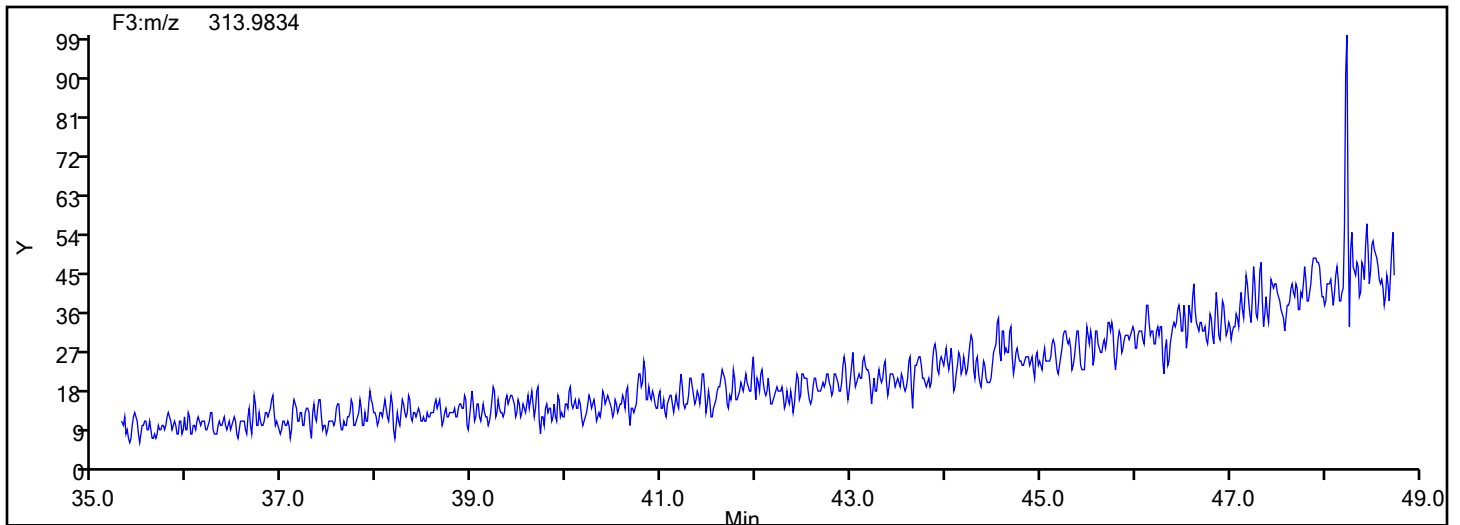
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



## PePCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

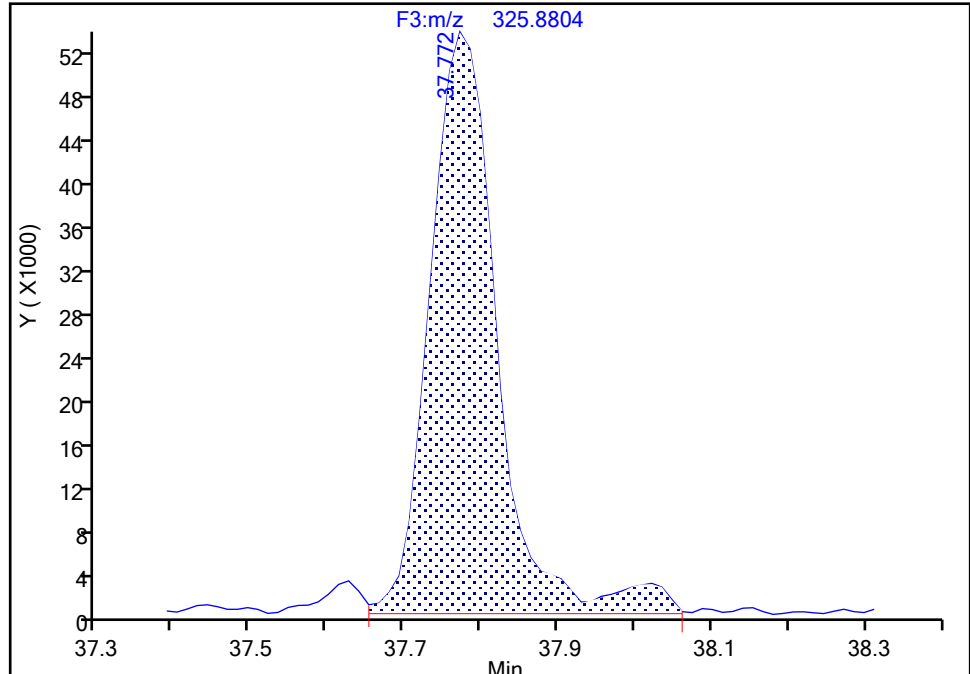
Detector F3(35.64 :49.10 )

PCB-105, CAS: 32598-14-4

Signal: 1

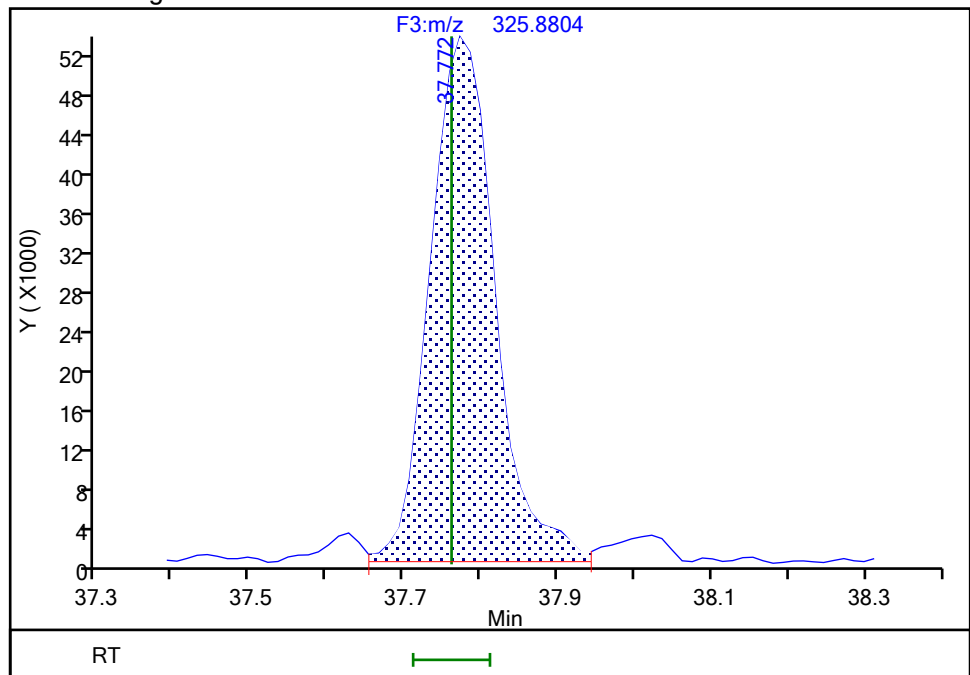
RT: 37.77  
Area: 326291  
Amount: 4.977767  
Amount Units: pg/ul

## Processing Integration Results



RT: 37.77  
Area: 313087  
Amount: 4.755654  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:51 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

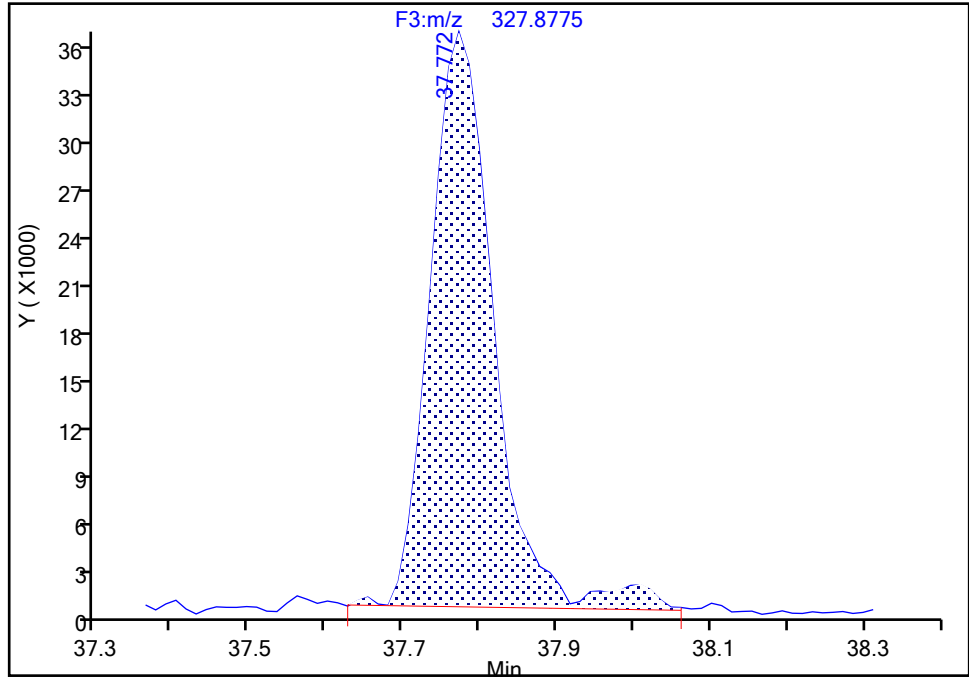
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-105, CAS: 32598-14-4

Signal: 2

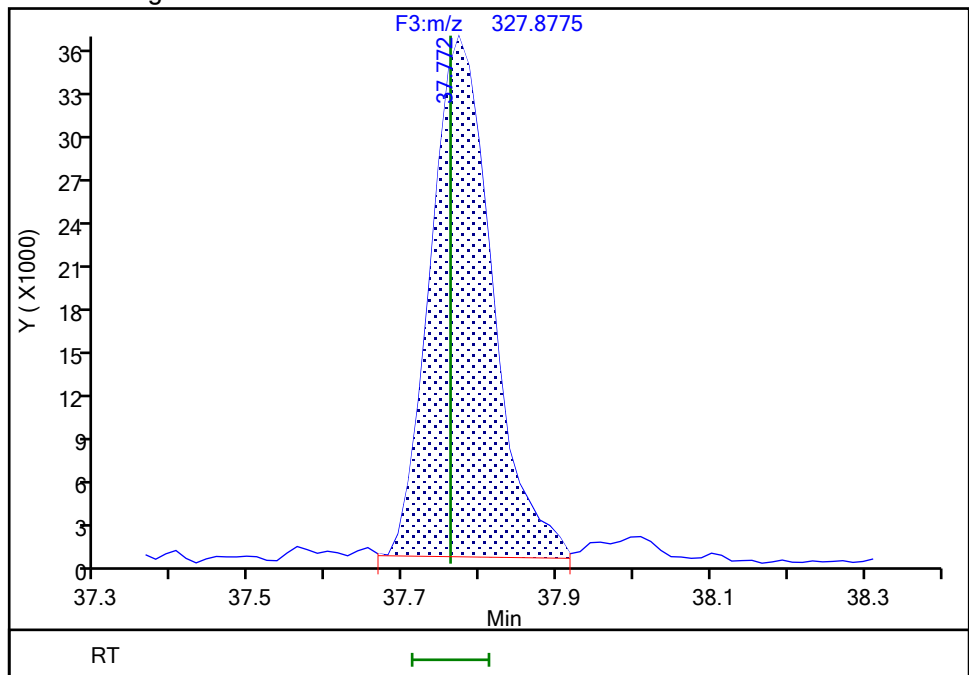
RT: 37.77  
Area: 209289  
Amount: 4.977767  
Amount Units: pg/ul

## Processing Integration Results



RT: 37.77  
Area: 200314  
Amount: 4.755654  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:47:55 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

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BASFHWC-F-2024-04209  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

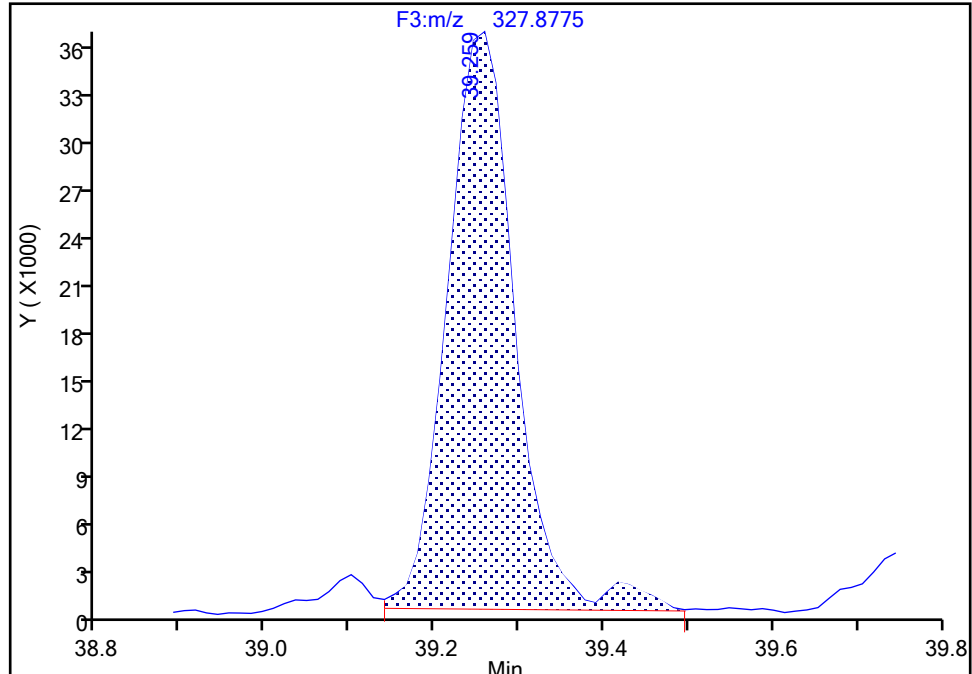
Detector F3(35.64 :49.10 )

**PCB-127, CAS: 39635-33-1**

Signal: 2

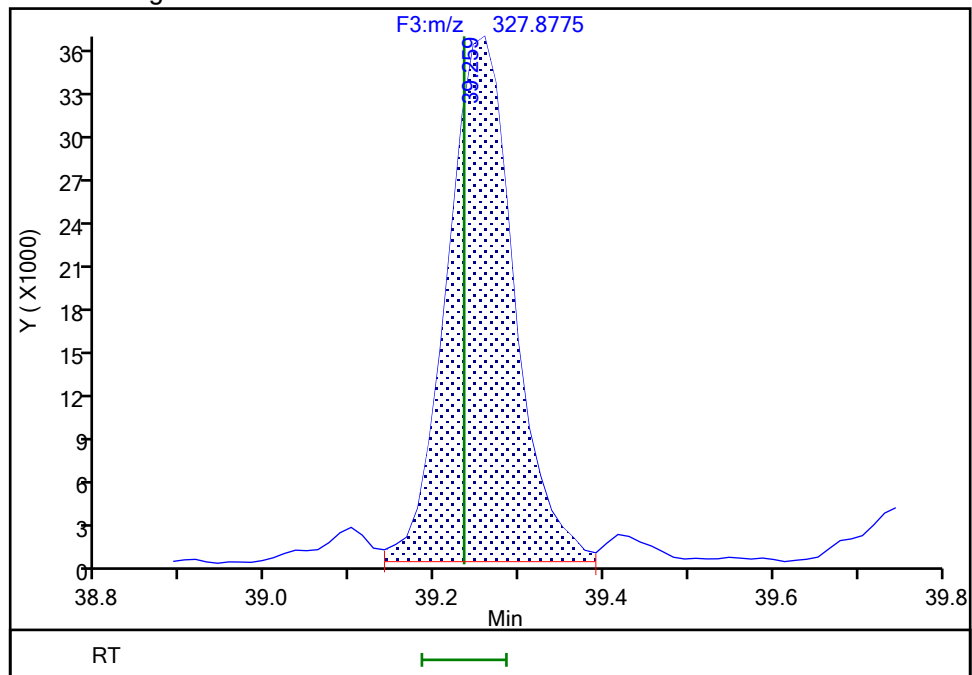
RT: 39.26  
Area: 202843  
Amount: 4.610039  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.26  
Area: 200669  
Amount: 4.755101  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:48:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

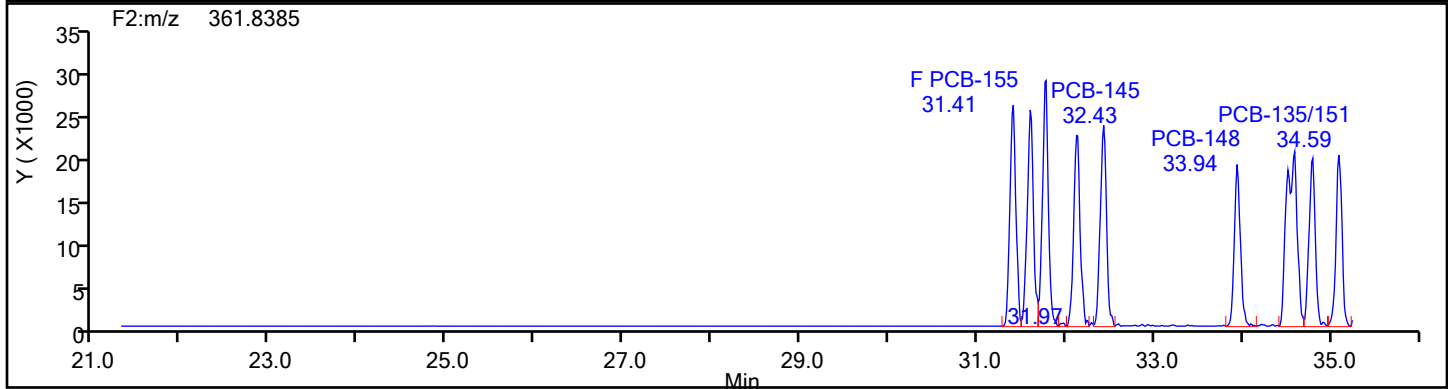
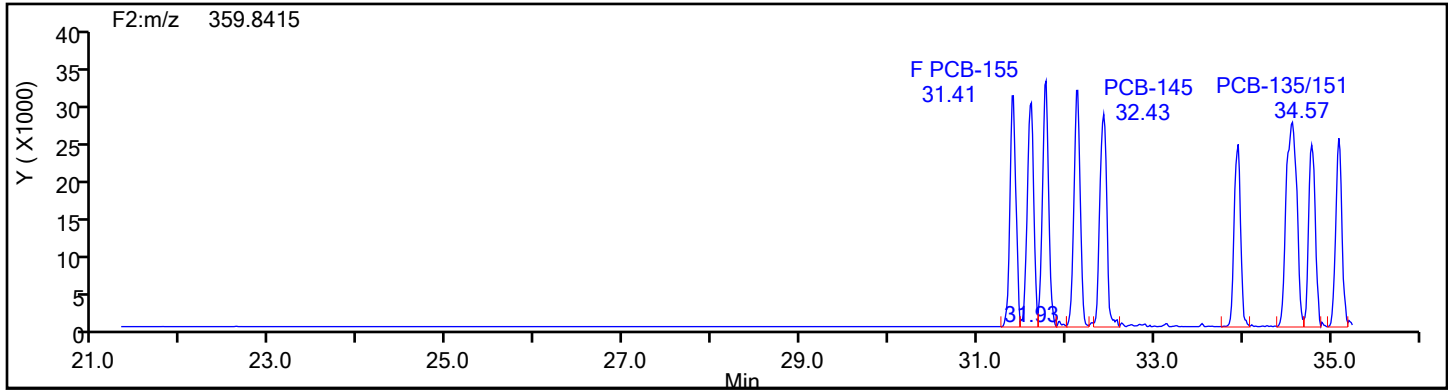
Worklist#: 87130

Sample Line#: 3

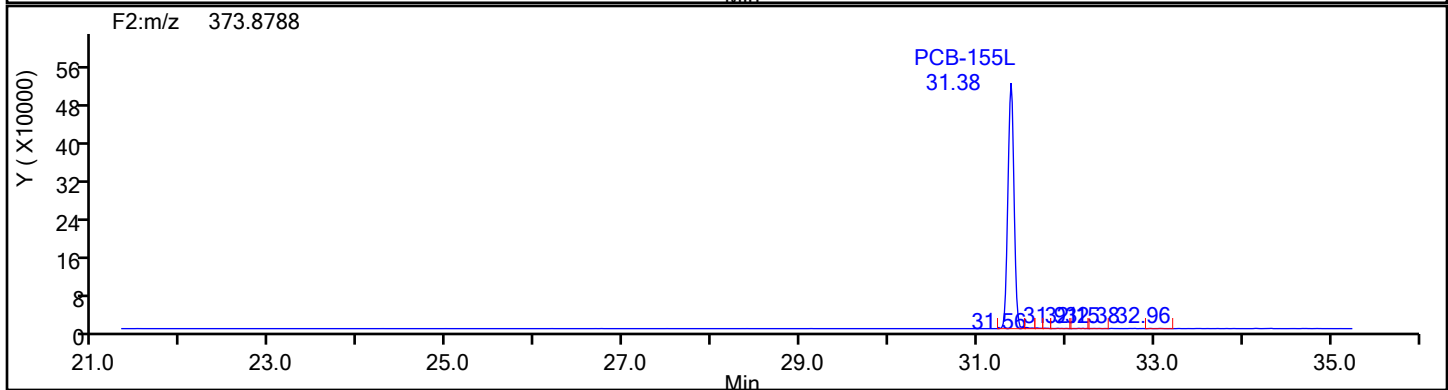
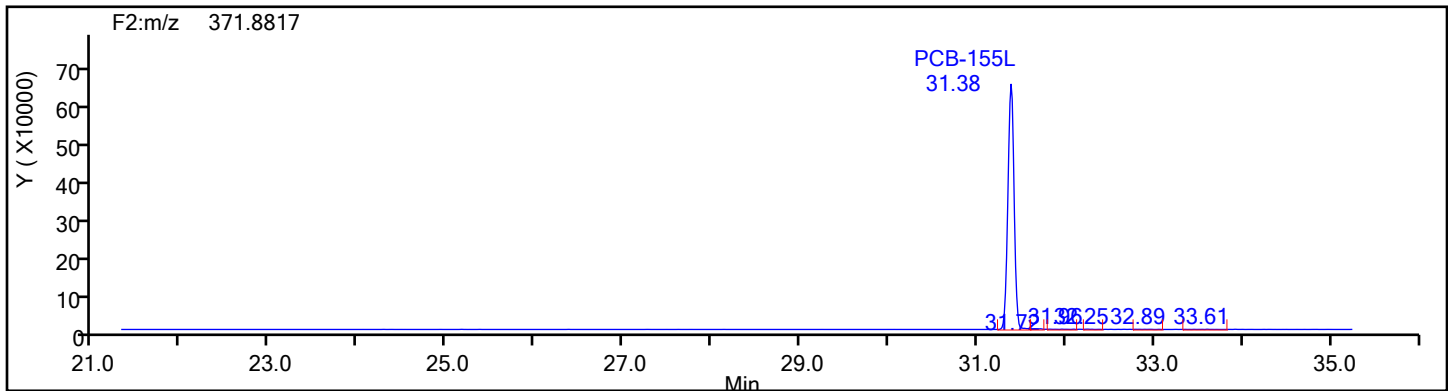
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

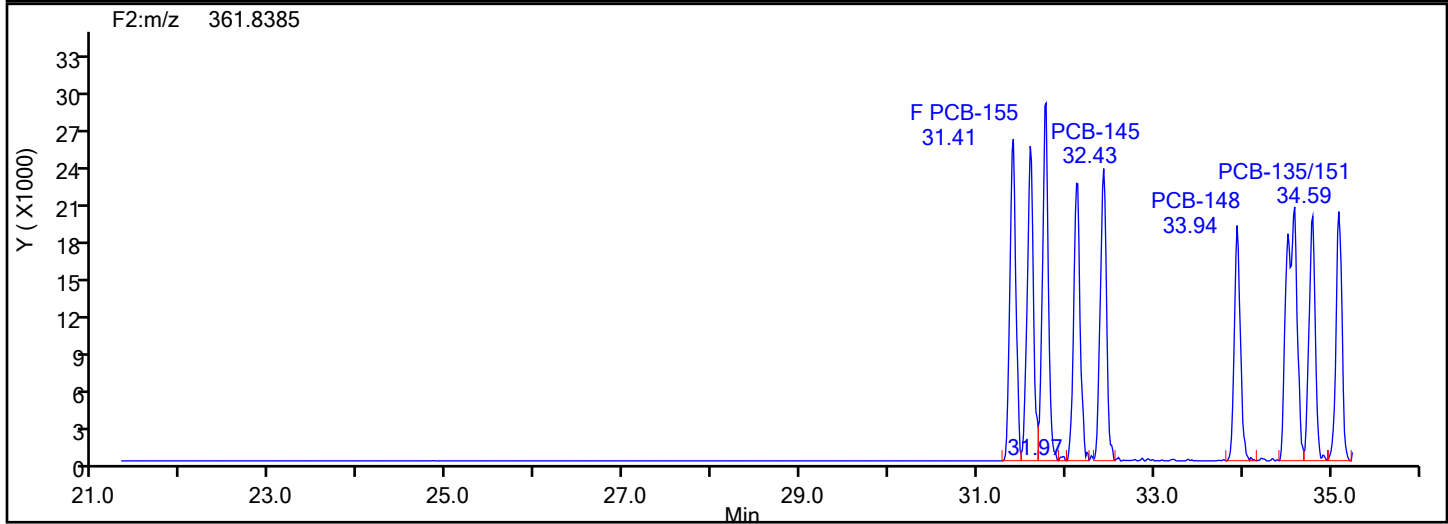
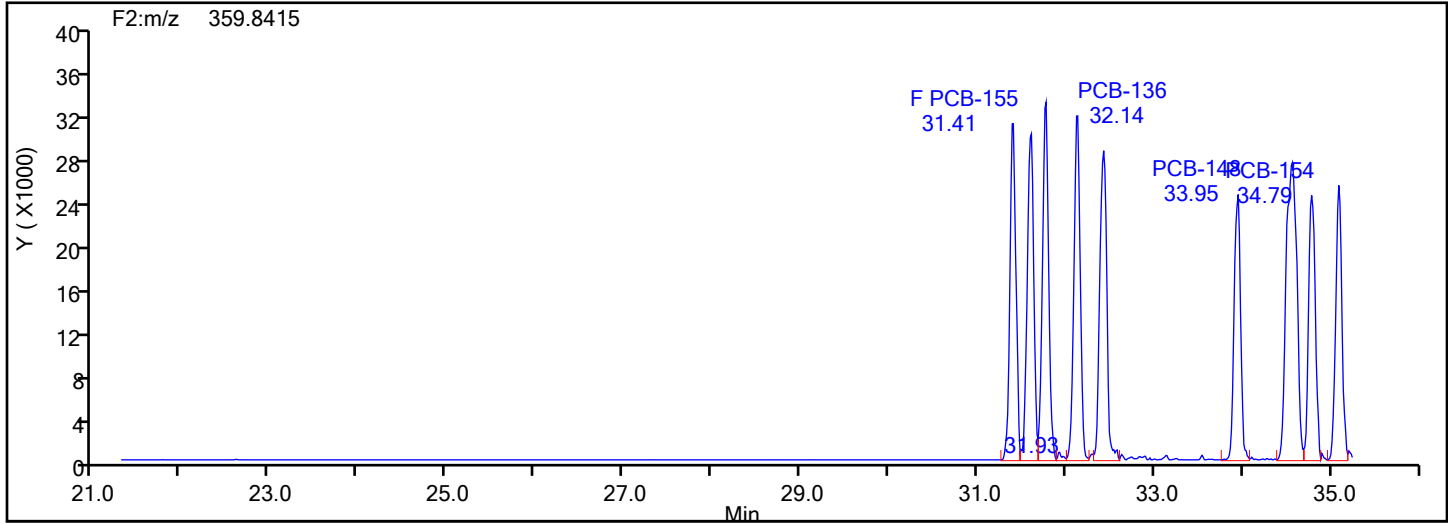


HxPCB F2 Standards

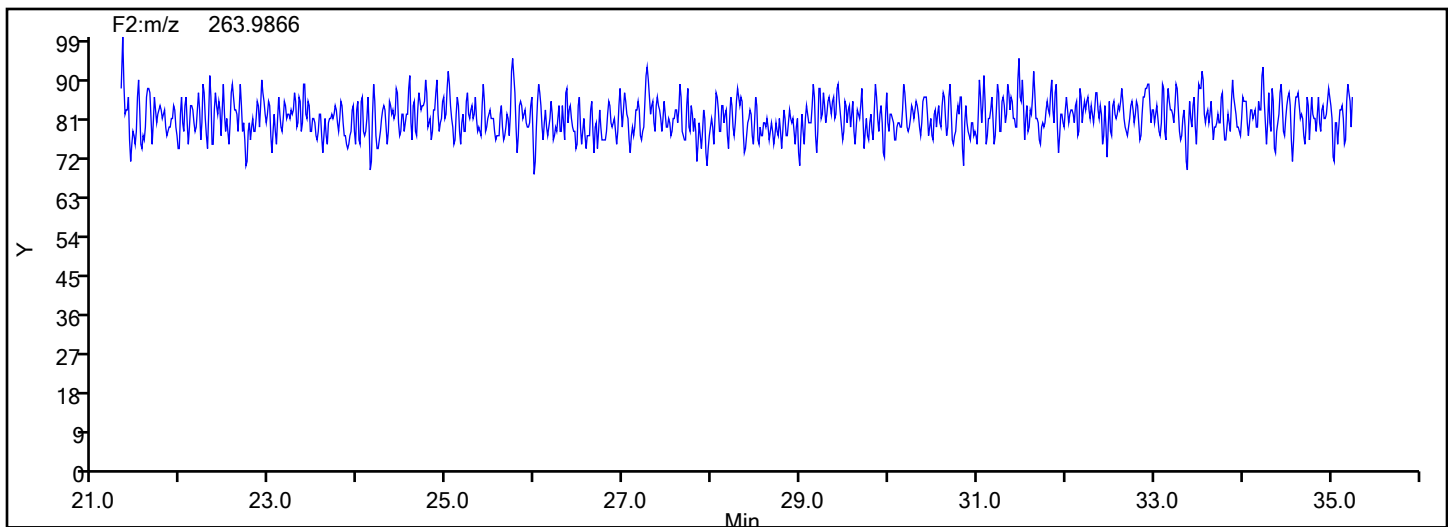


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 3  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

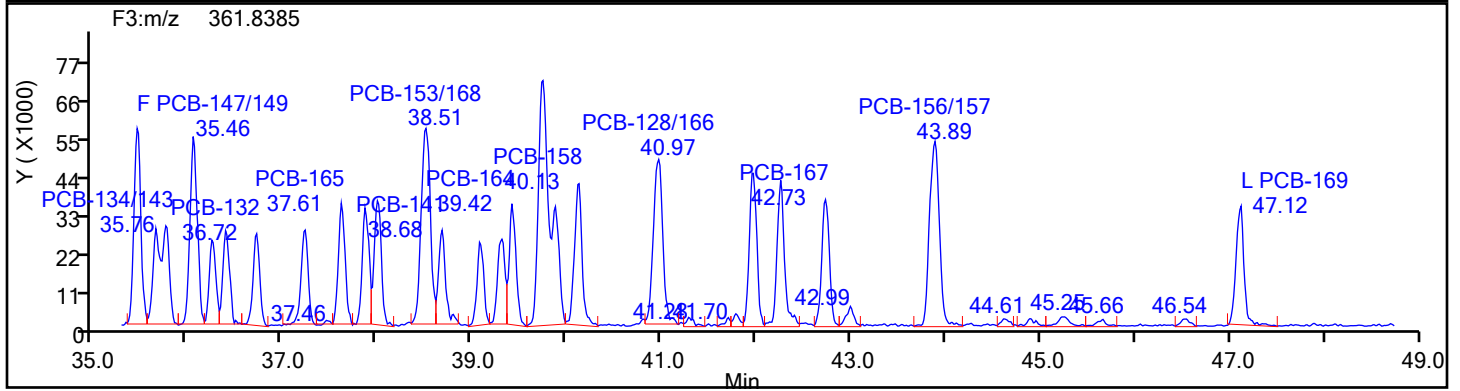
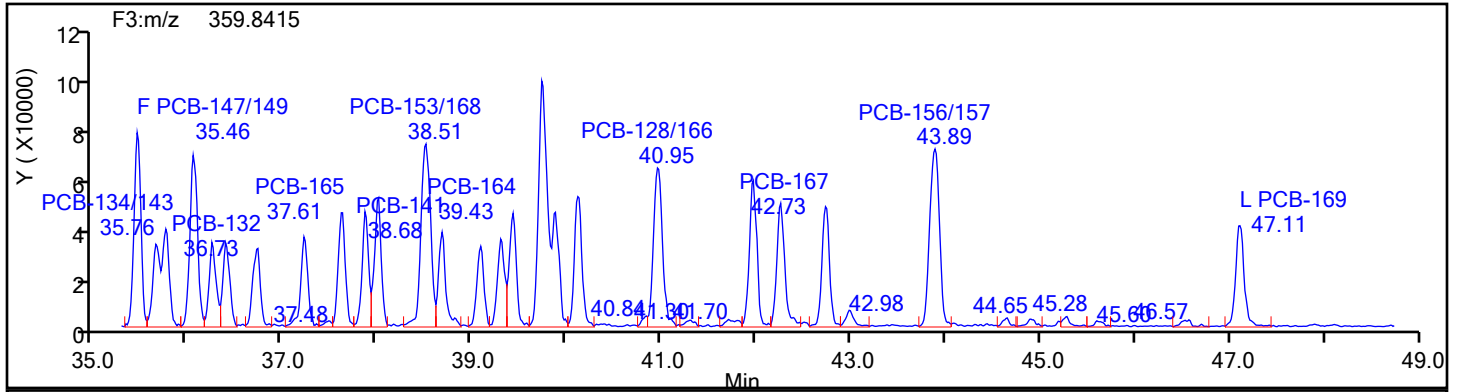
Worklist#: 87130

Sample Line#: 3

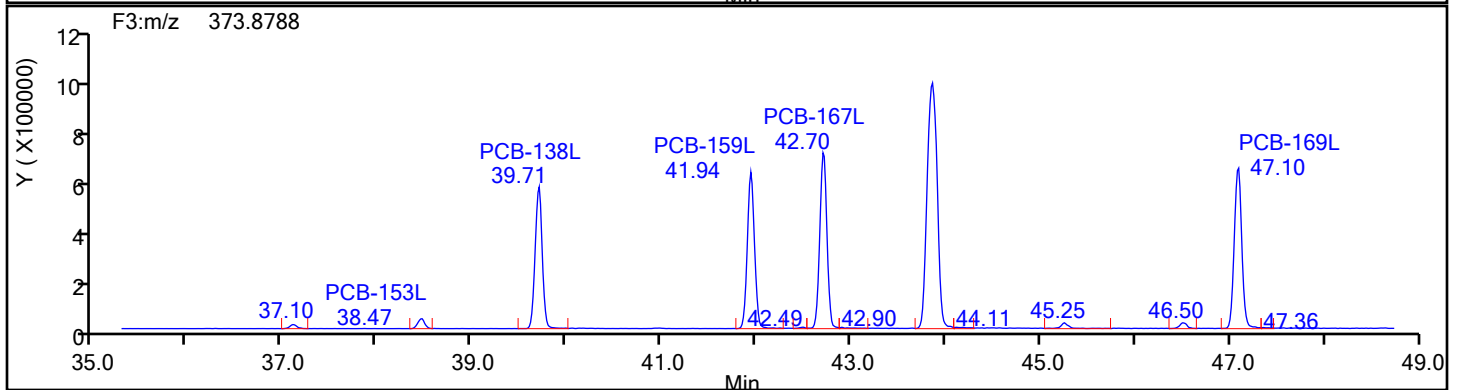
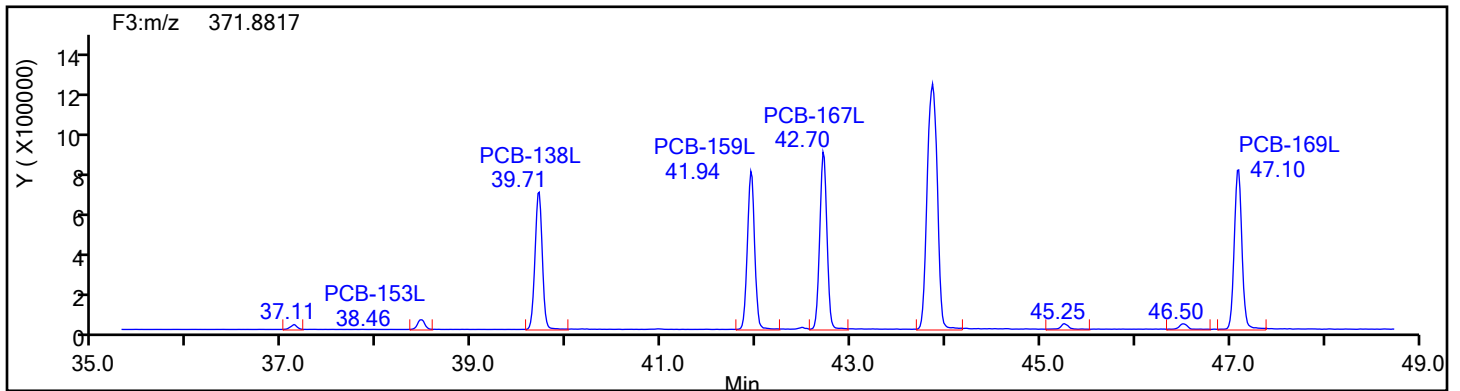
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

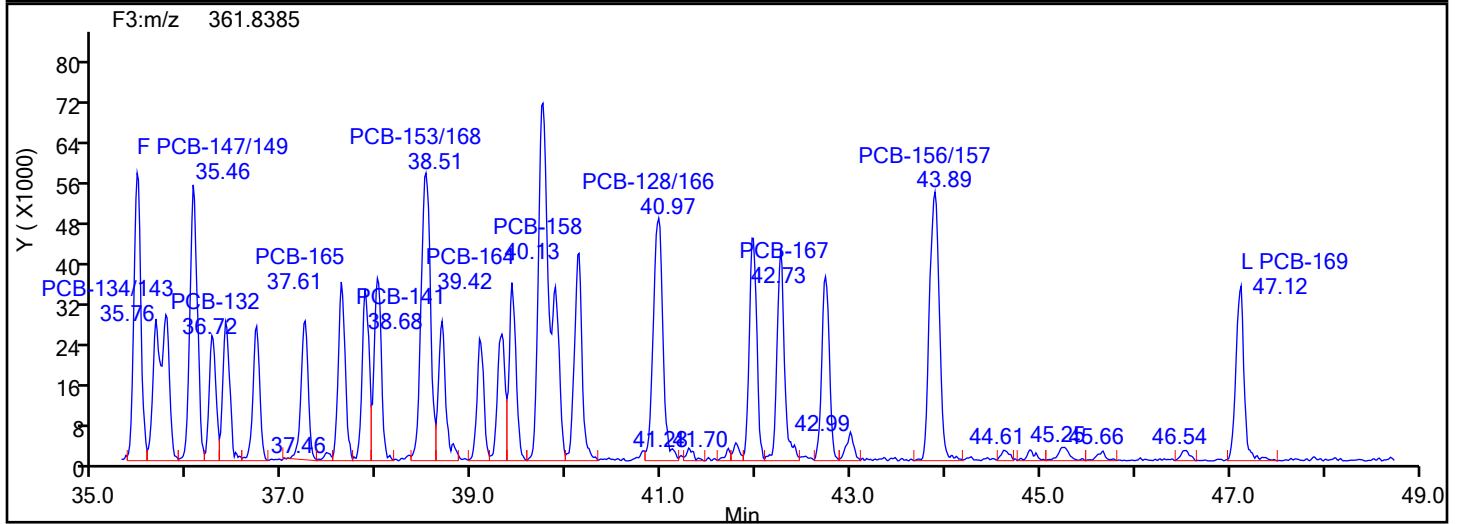
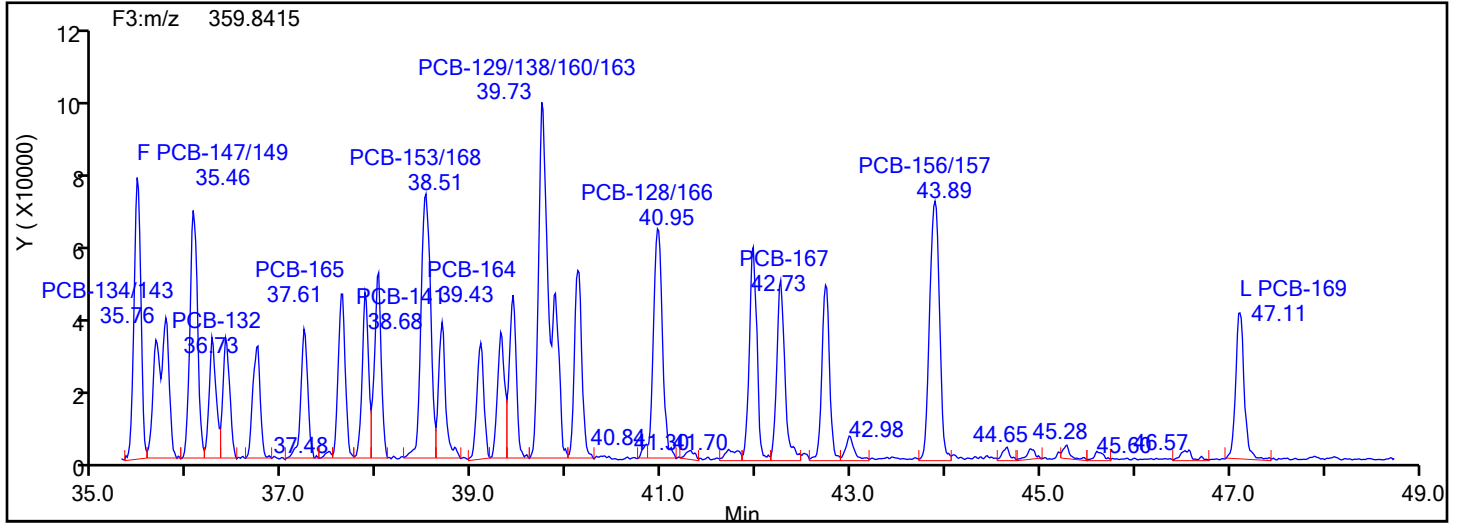
Worklist#: 87130

Sample Line#: 3

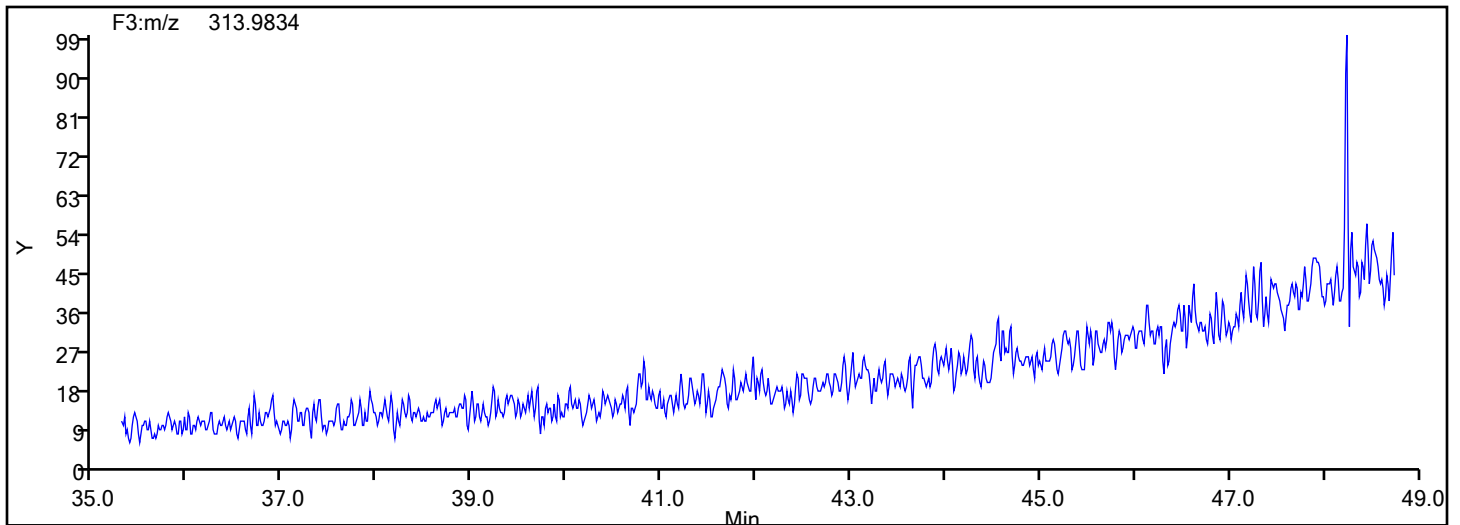
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

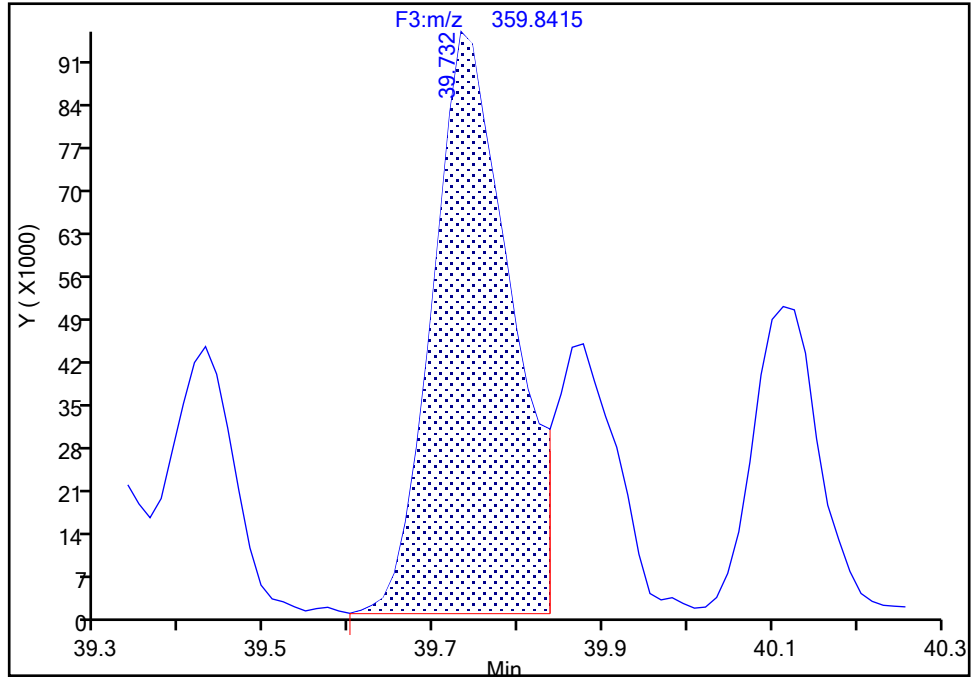
Detector F3(35.64 :49.10 )

**PCB-129/138/160/163, CAS: STL02296**

Signal: 1

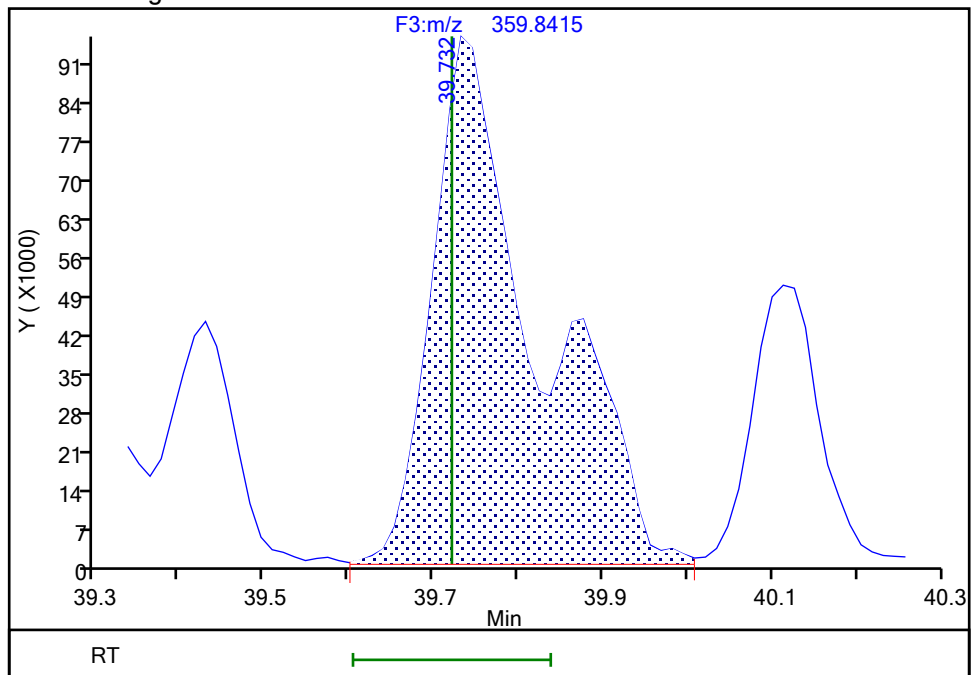
RT: 39.73  
Area: 605540  
Amount: 17.339974  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.73  
Area: 820981  
Amount: 19.465175  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:50:06 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

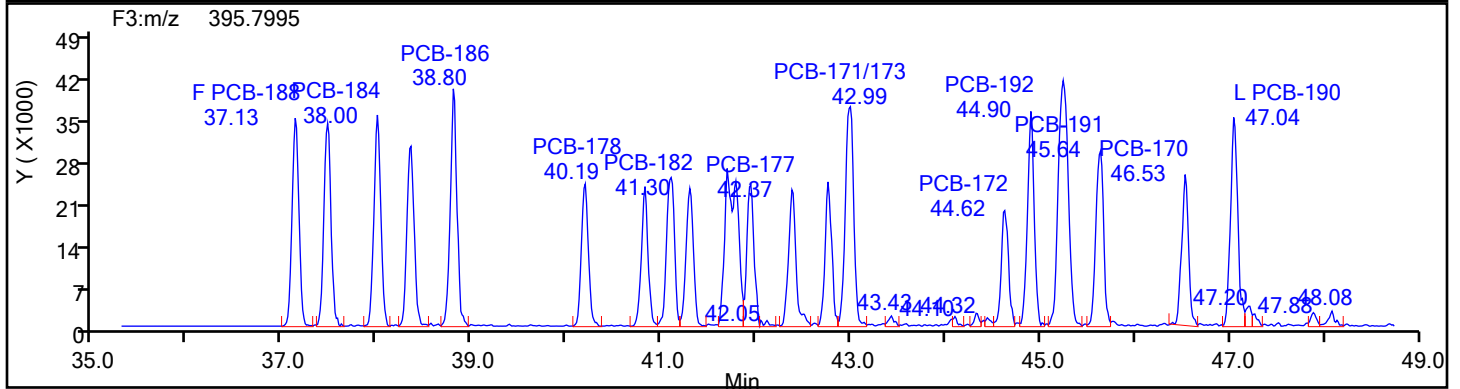
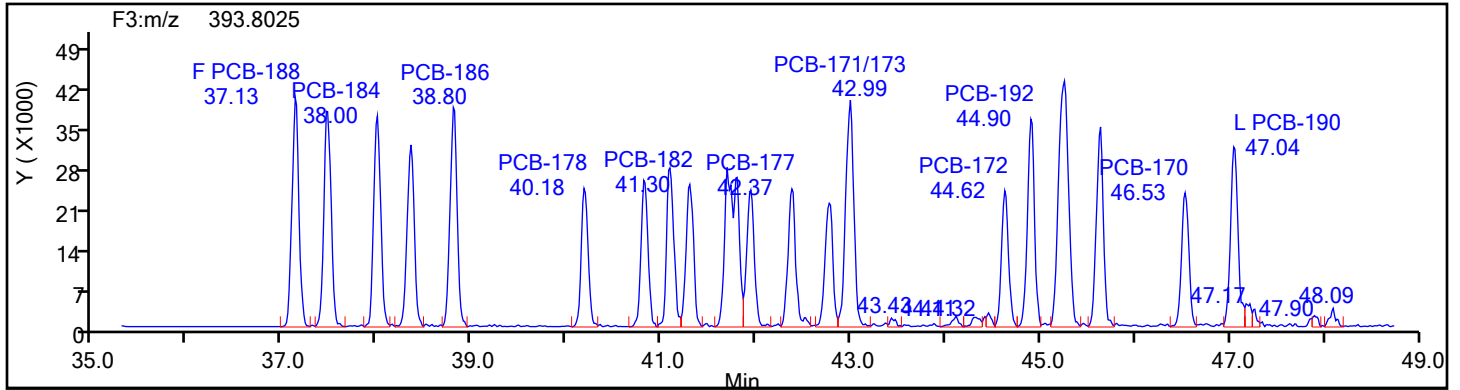
Worklist#: 87130

Sample Line#: 3

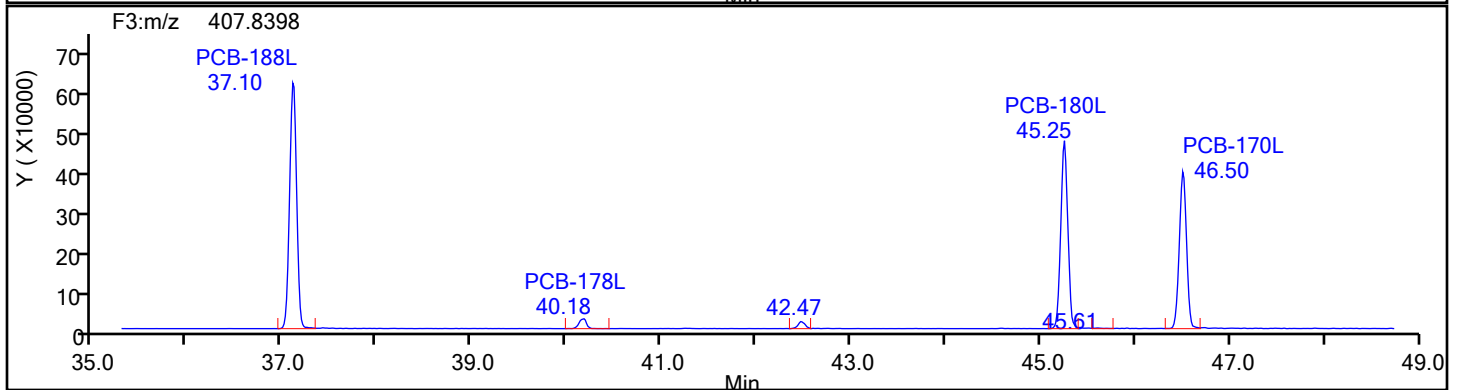
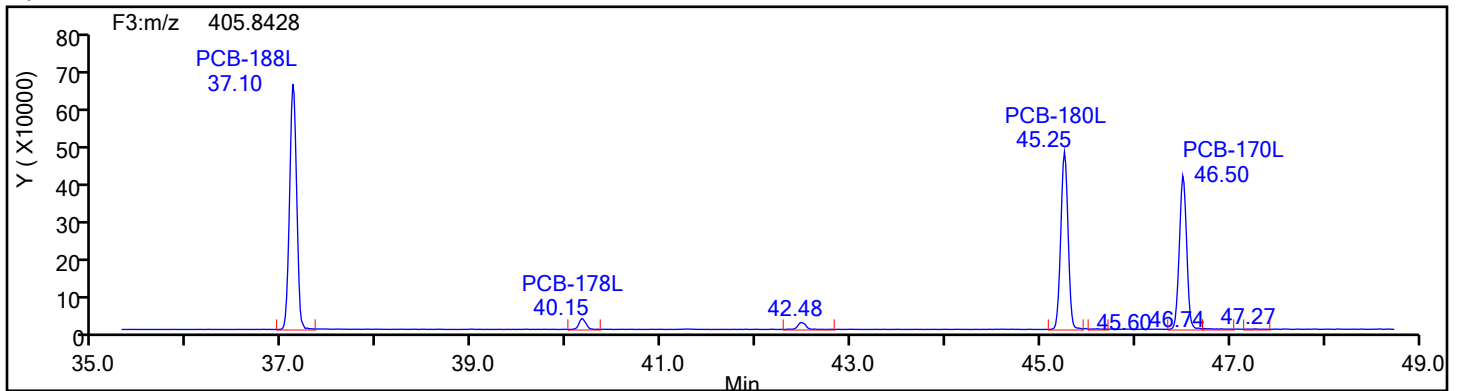
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

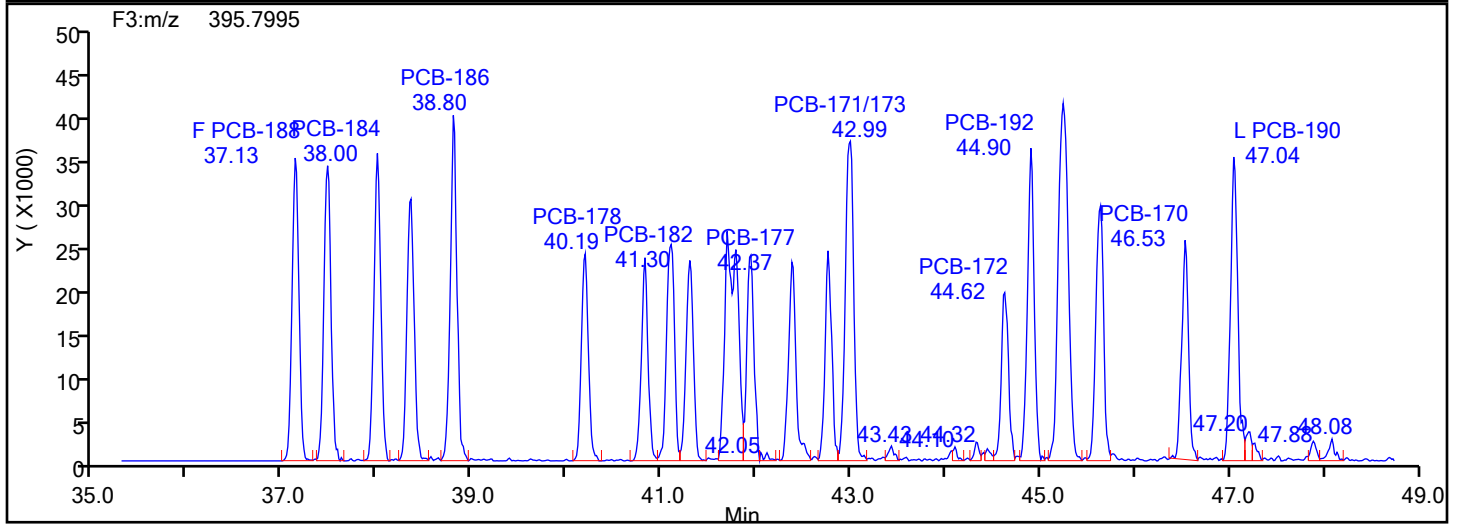
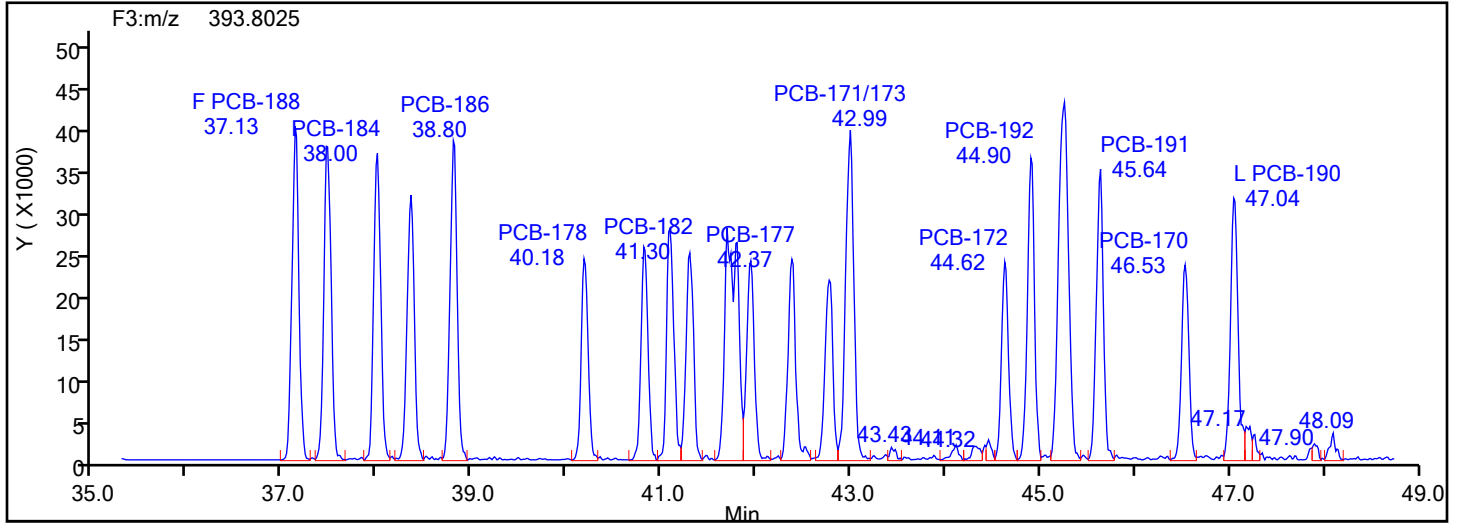
Worklist#: 87130

Sample Line#: 3

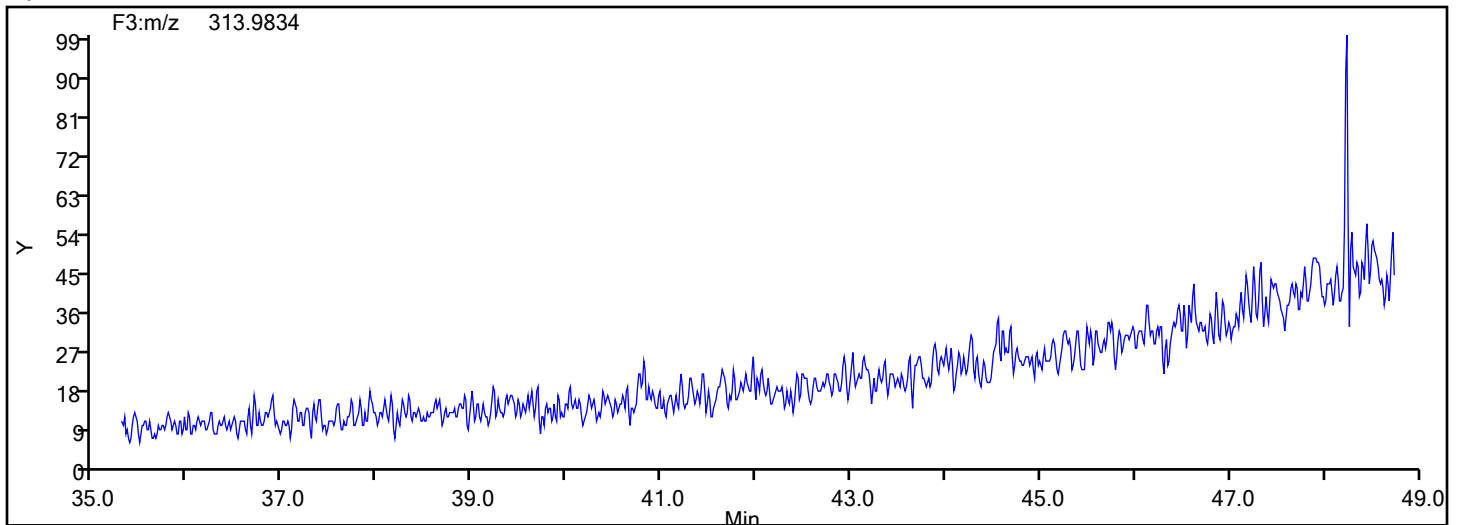
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

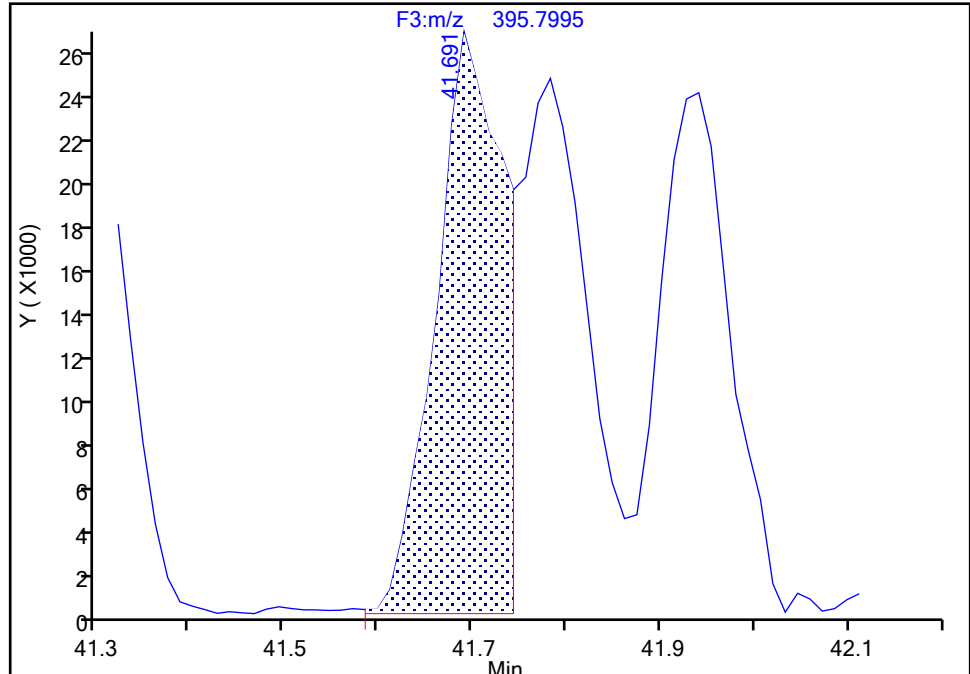
Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 2

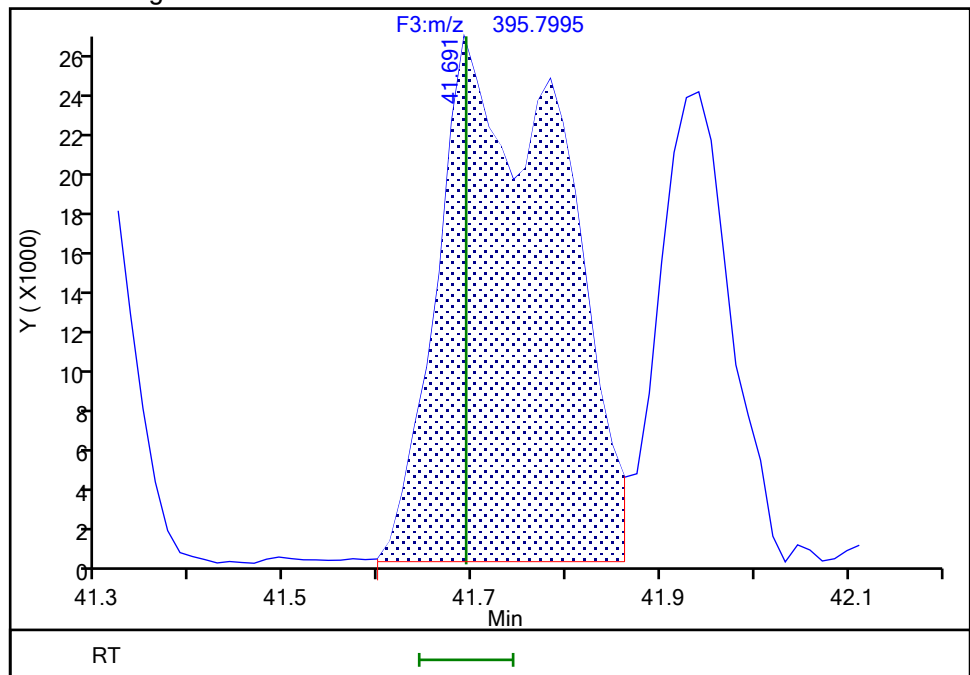
RT: 41.69  
Area: 127948  
Amount: 7.395438  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.69  
Area: 244261  
Amount: 9.336683  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:50:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

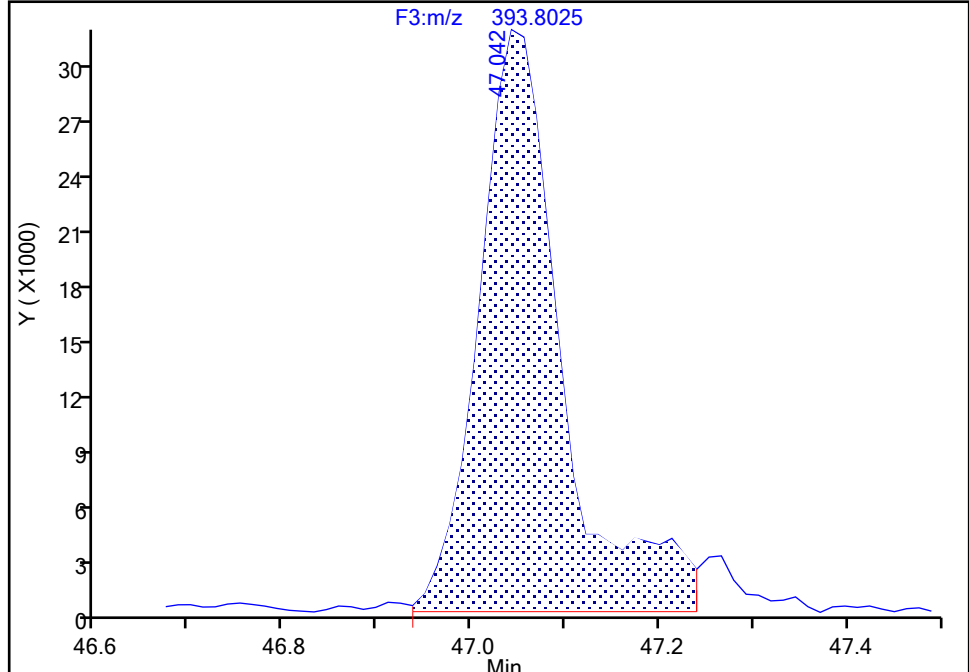
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-190, CAS: 41411-64-7

Signal: 1

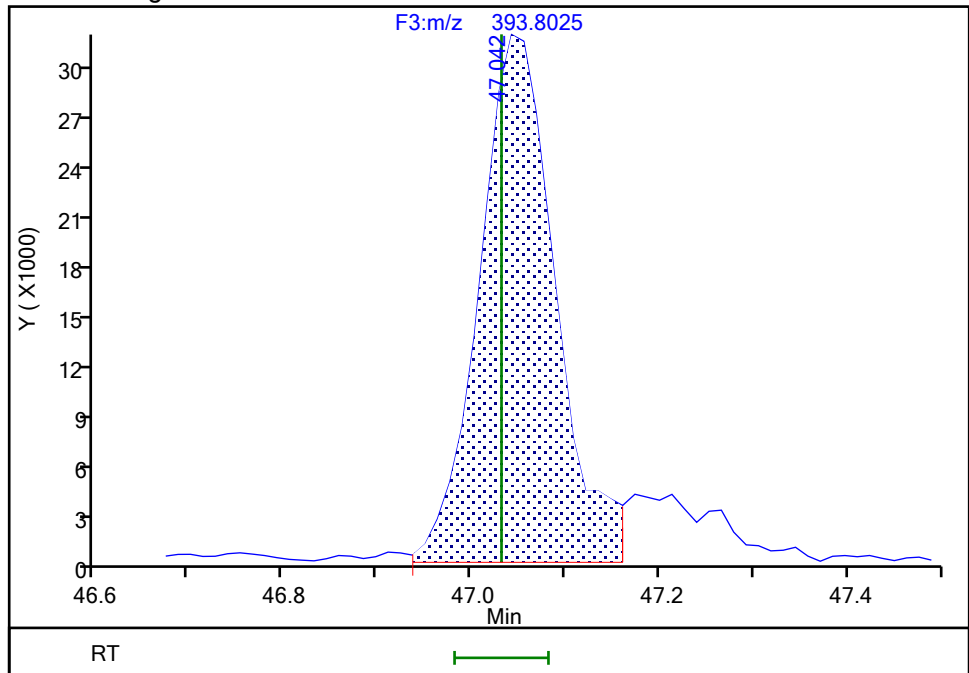
RT: 47.04  
Area: 192417  
Amount: 5.044239  
Amount Units: pg/ul

## Processing Integration Results



RT: 47.04  
Area: 175590  
Amount: 4.967529  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

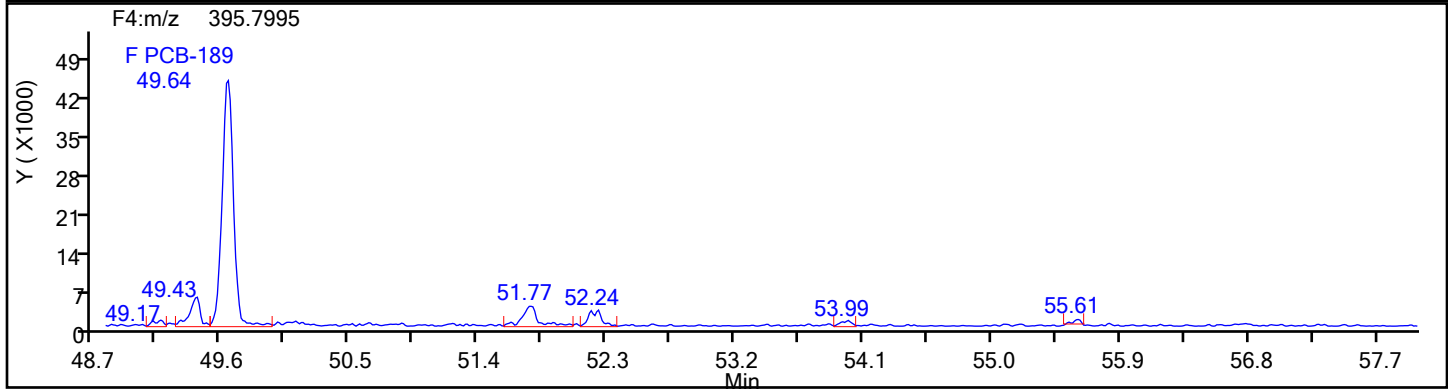
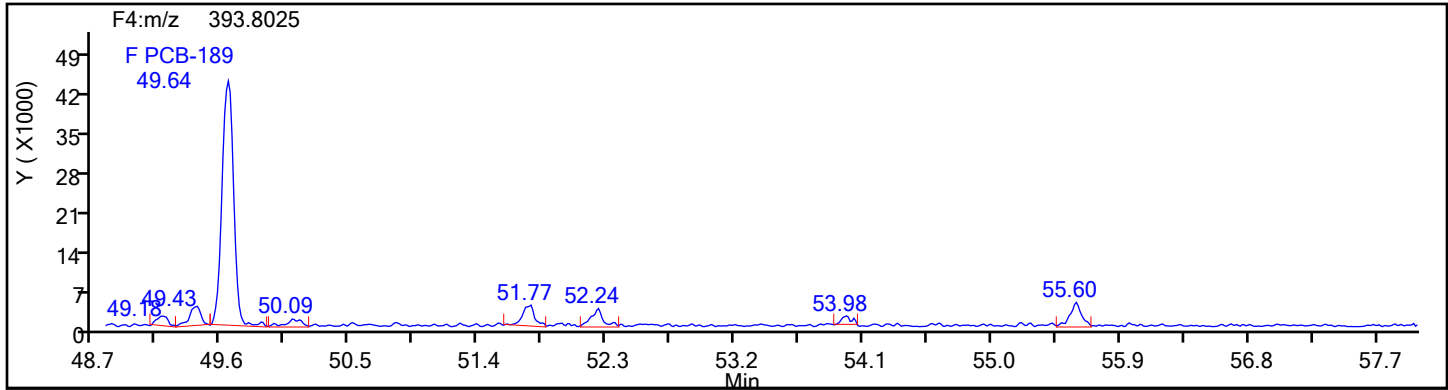
Worklist#: 87130

Sample Line#: 3

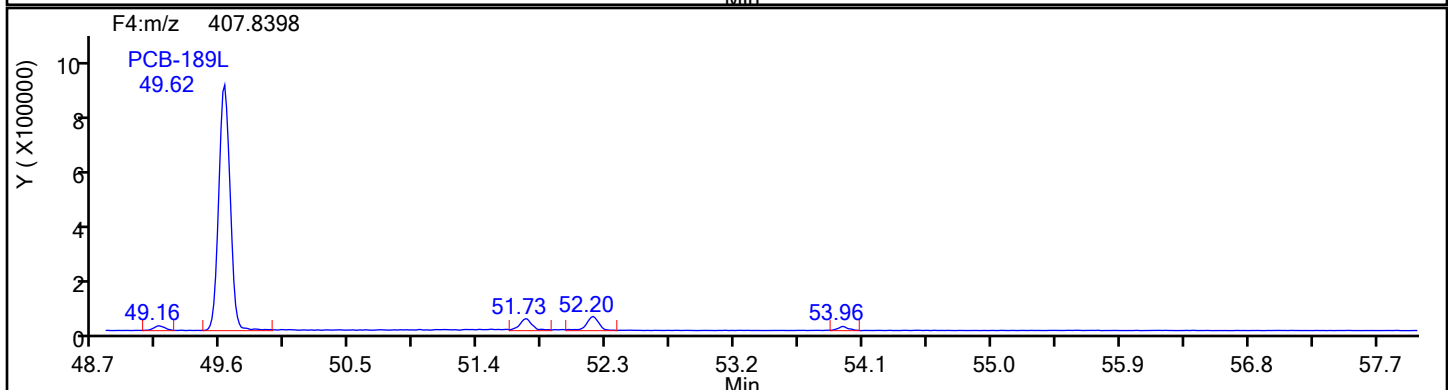
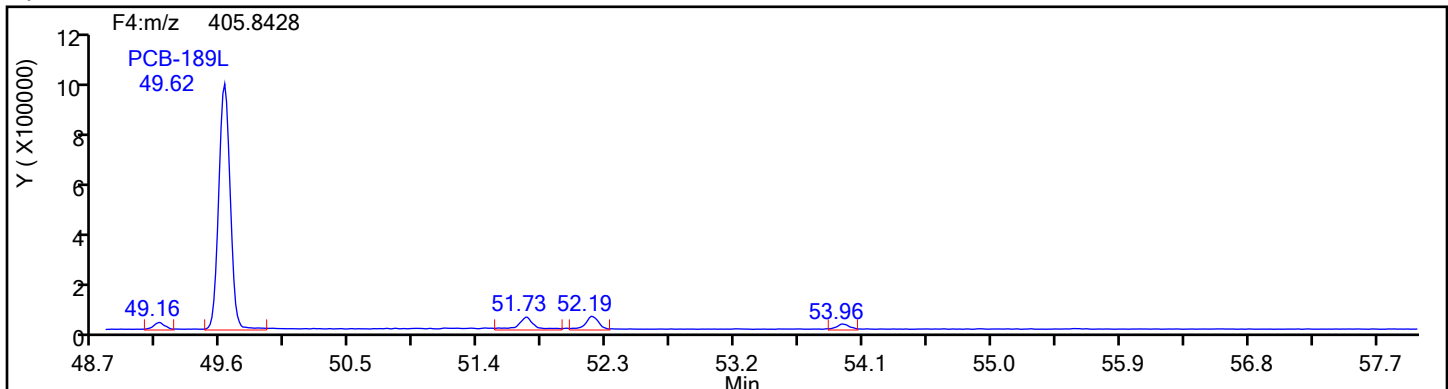
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

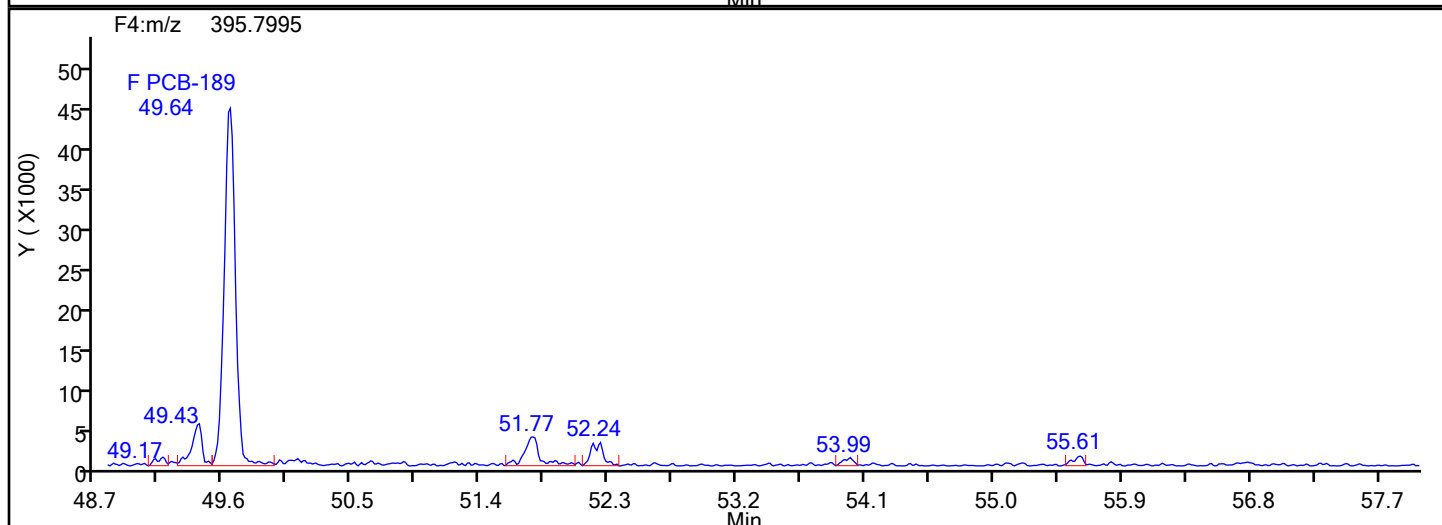
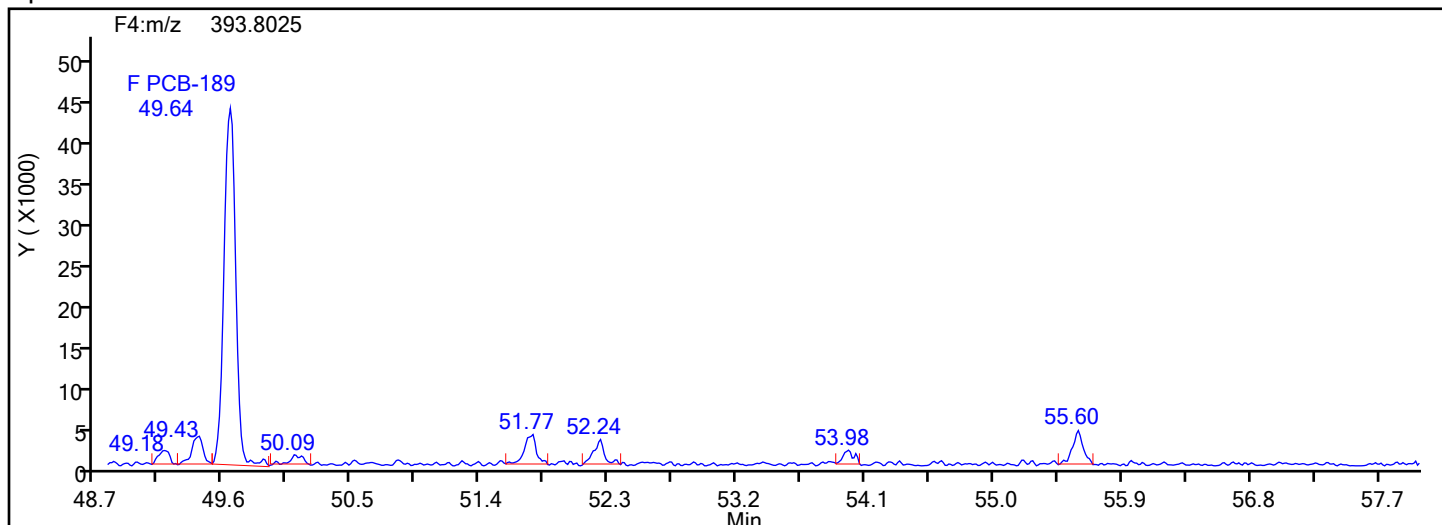
Worklist#: 87130

Sample Line#: 3

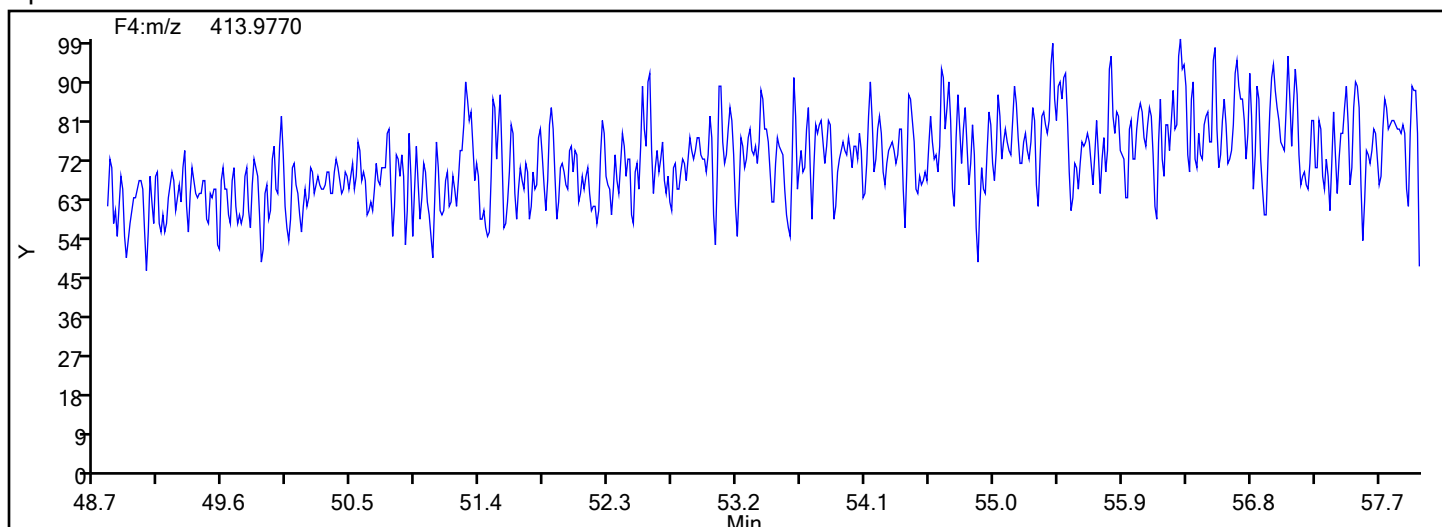
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

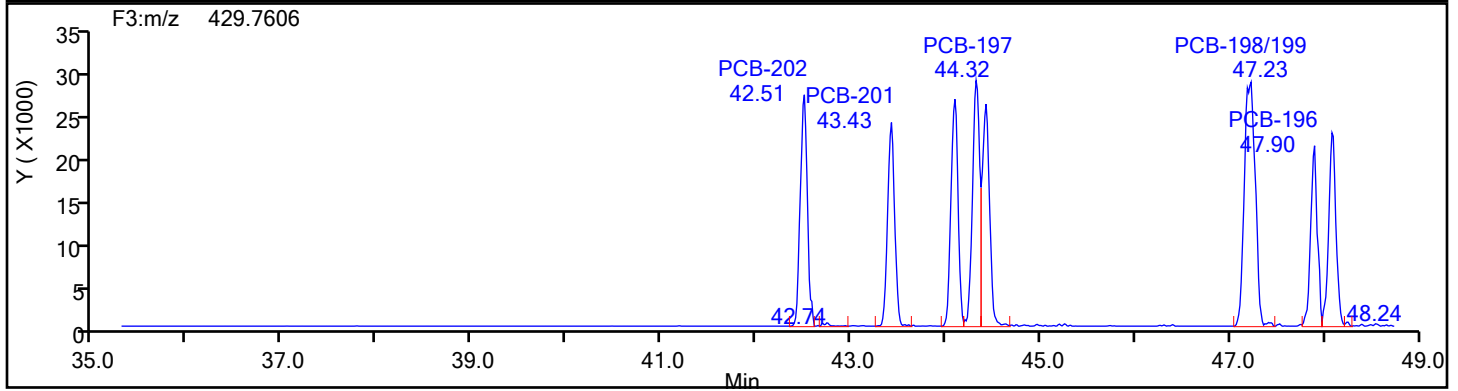
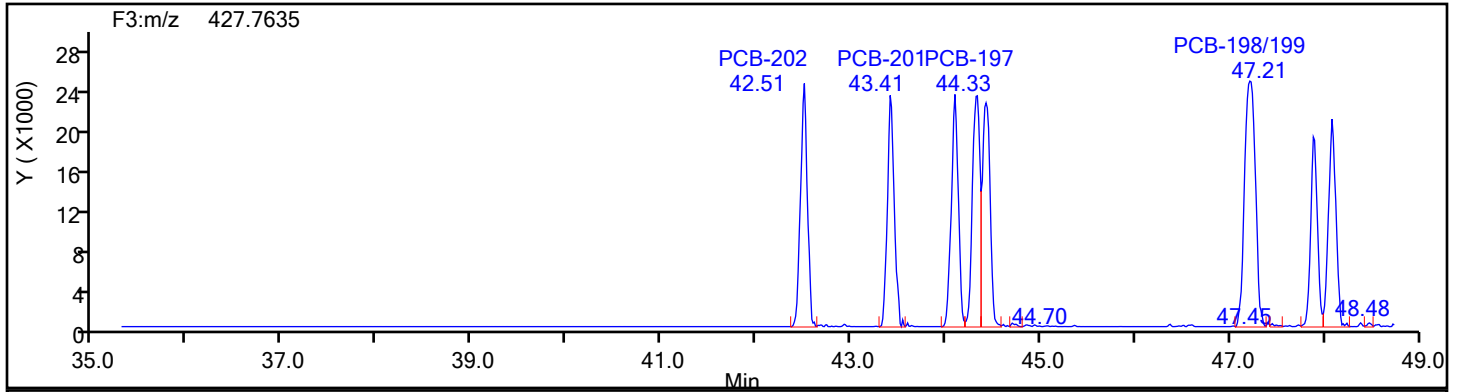
Worklist#: 87130

Sample Line#: 3

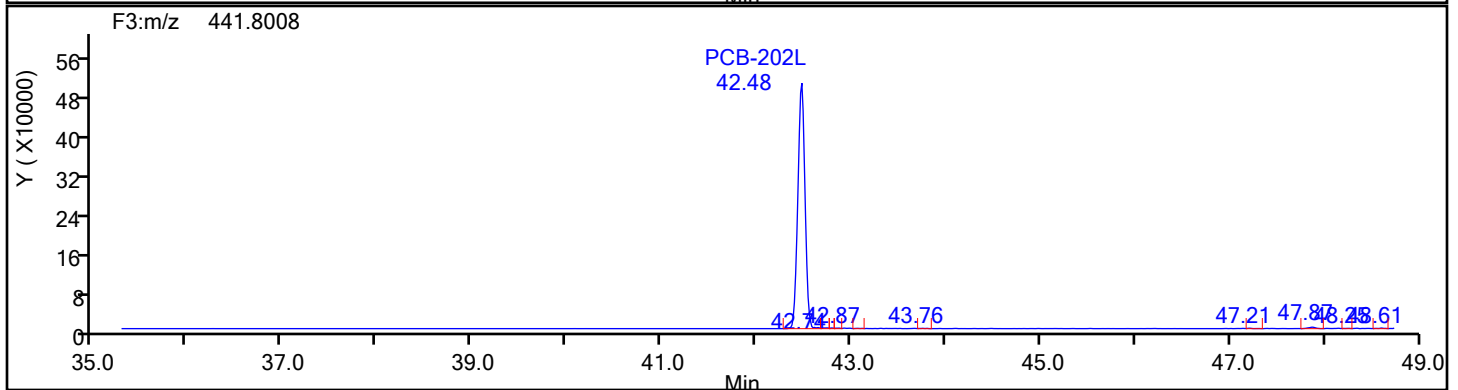
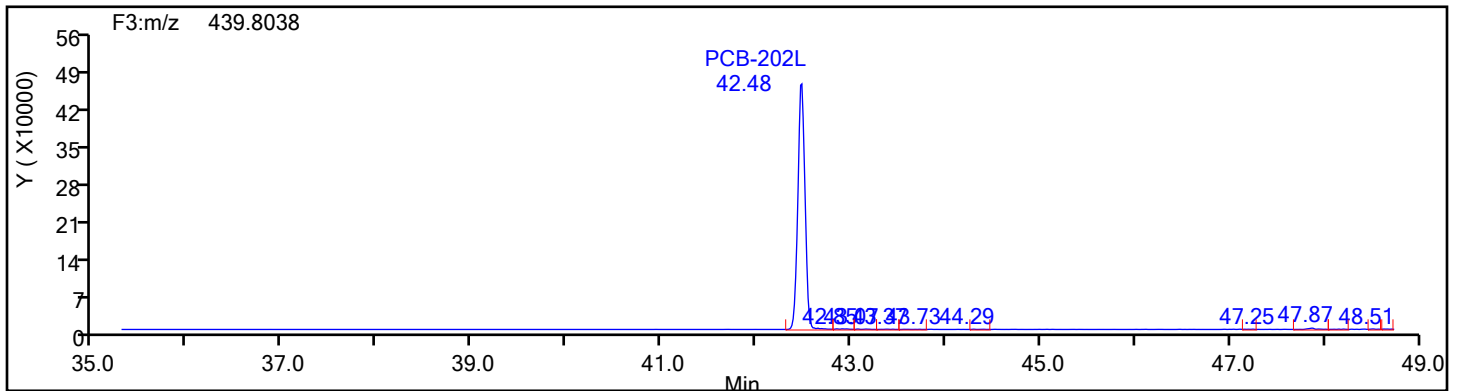
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



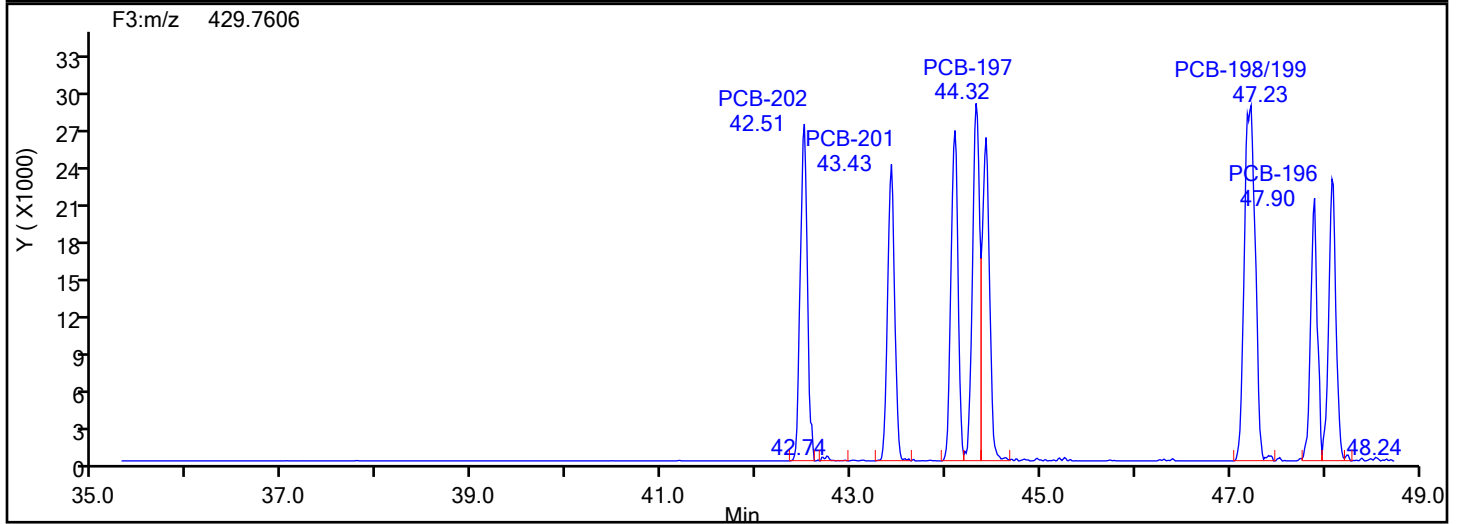
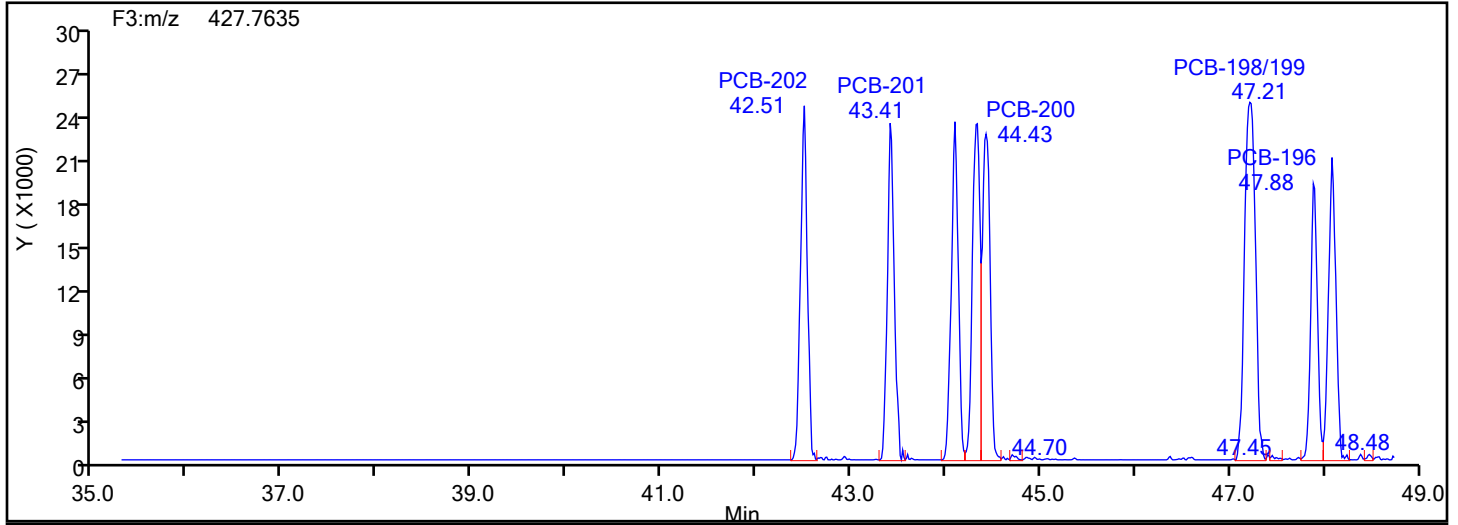
OcPCB F3 Standards



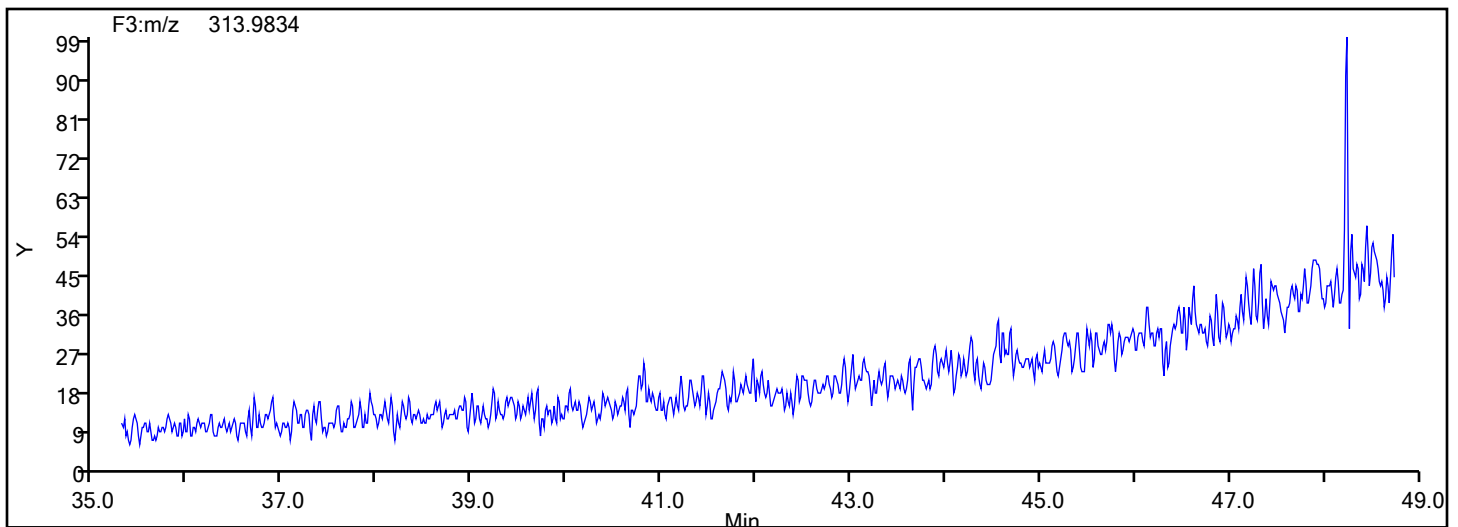


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 3  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3



## OcPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

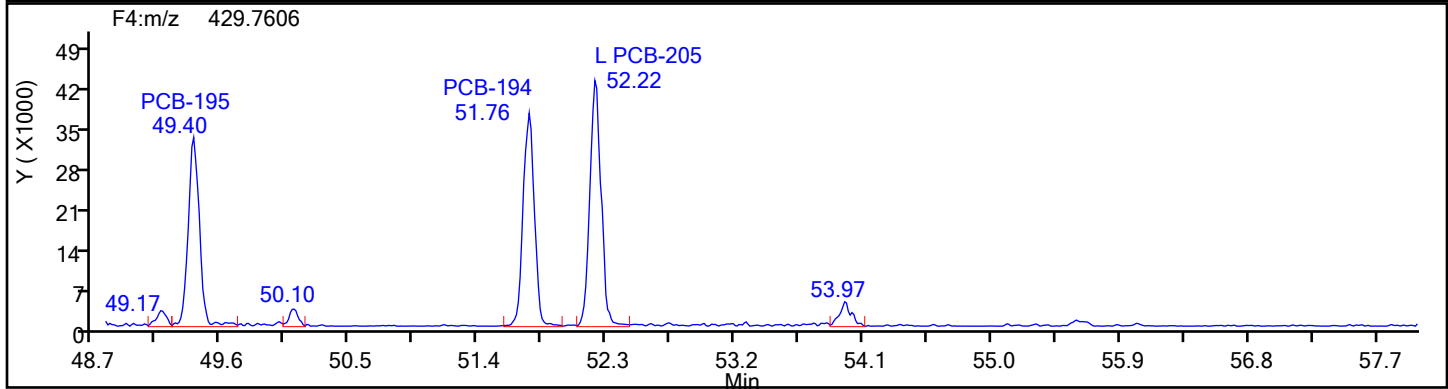
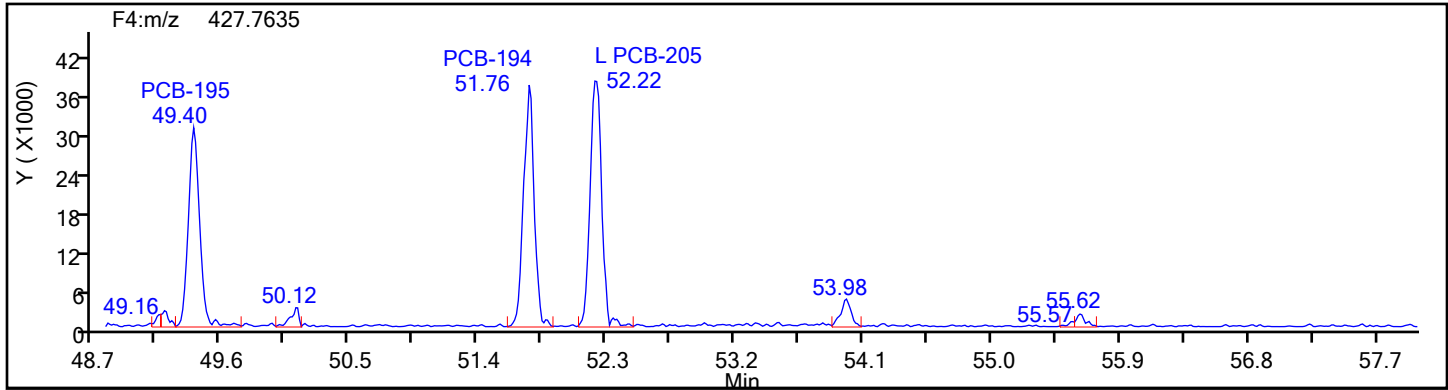
Worklist#: 87130

Sample Line#: 3

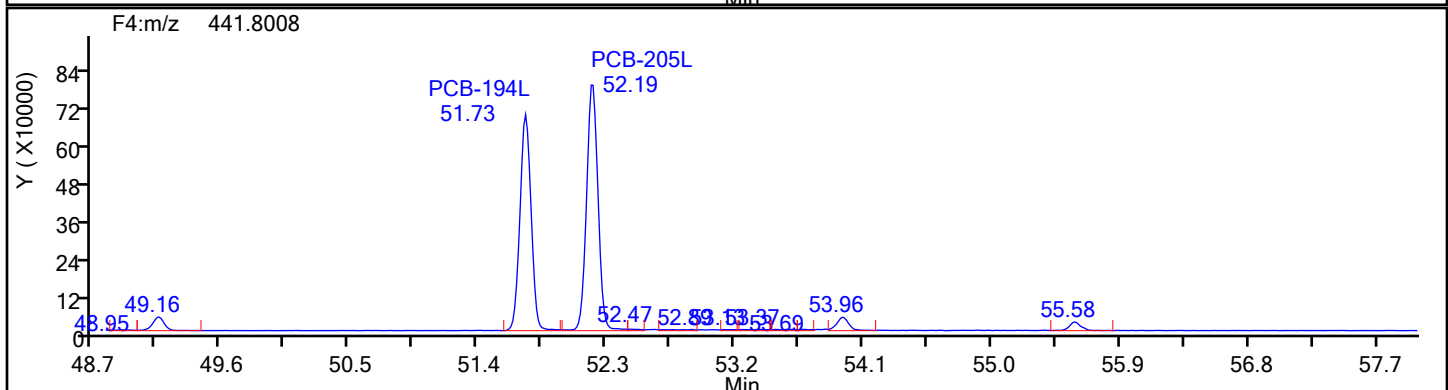
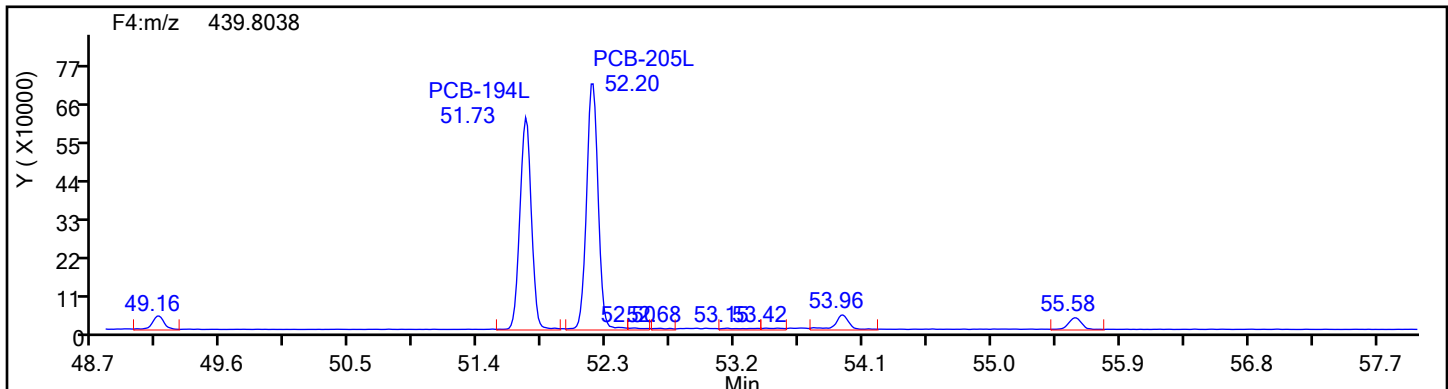
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

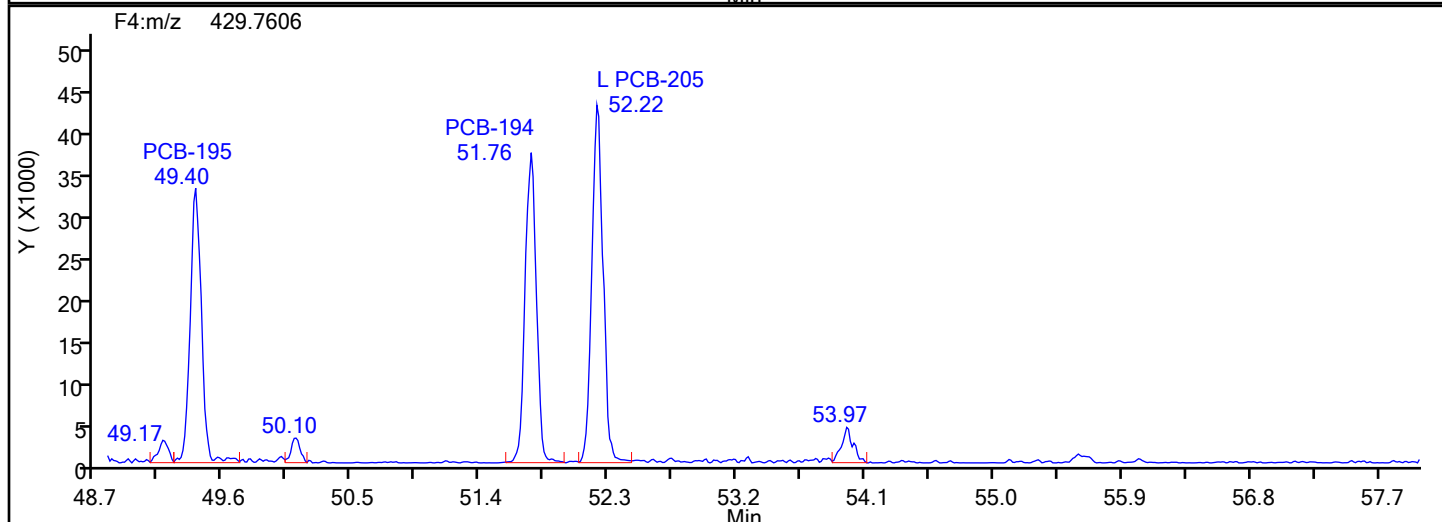
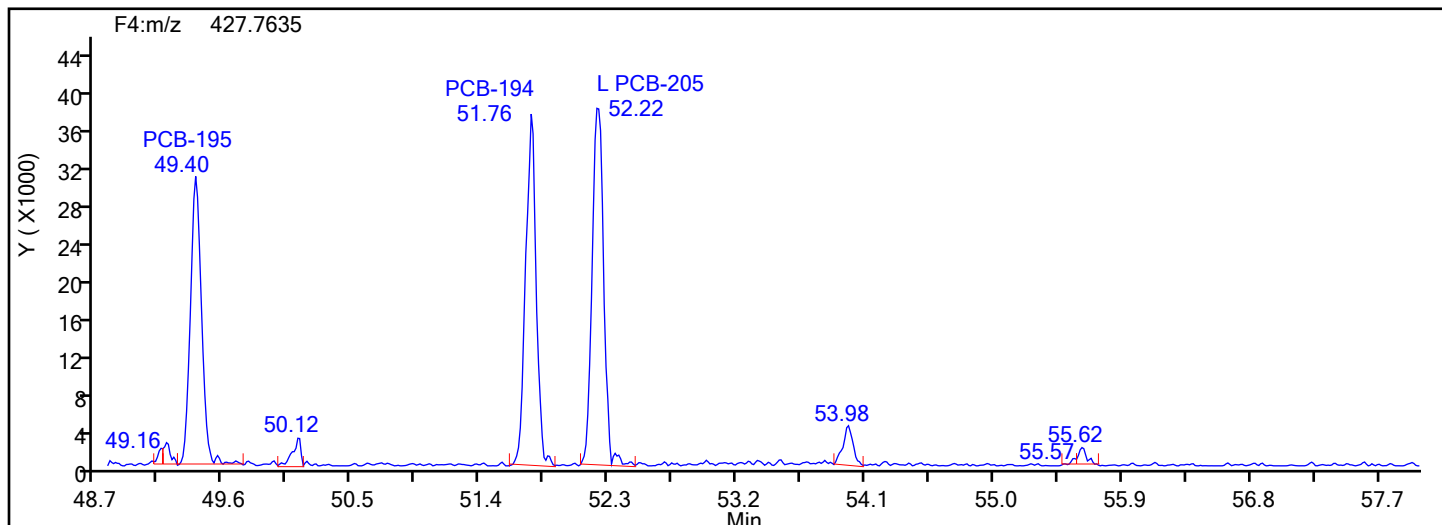
Worklist#: 87130

Sample Line#: 3

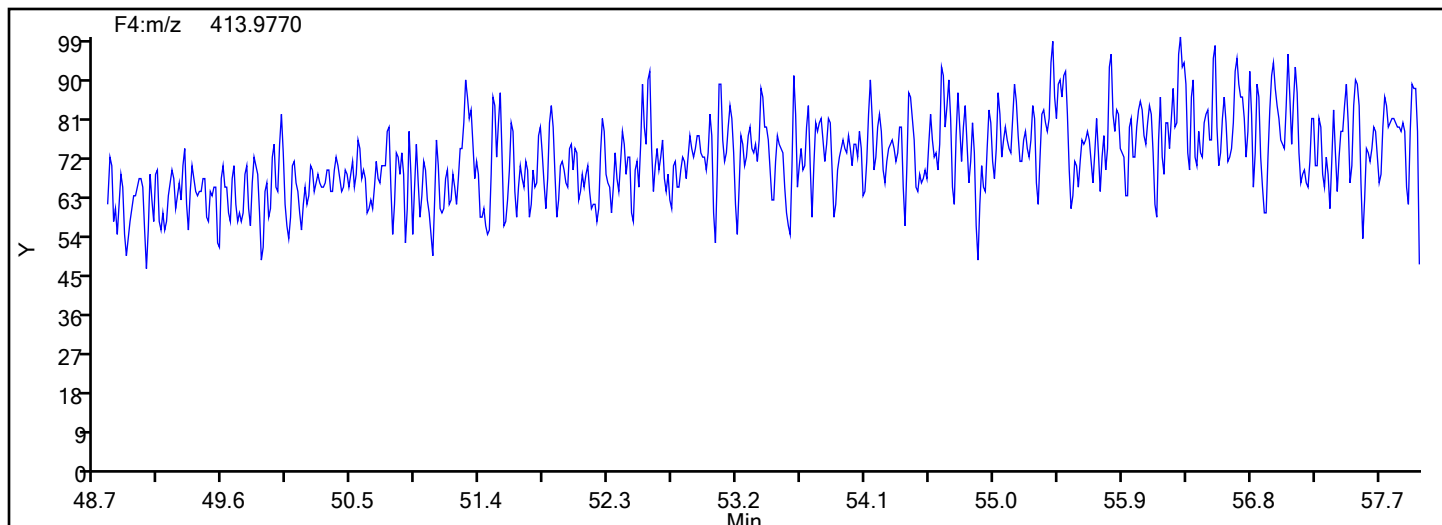
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

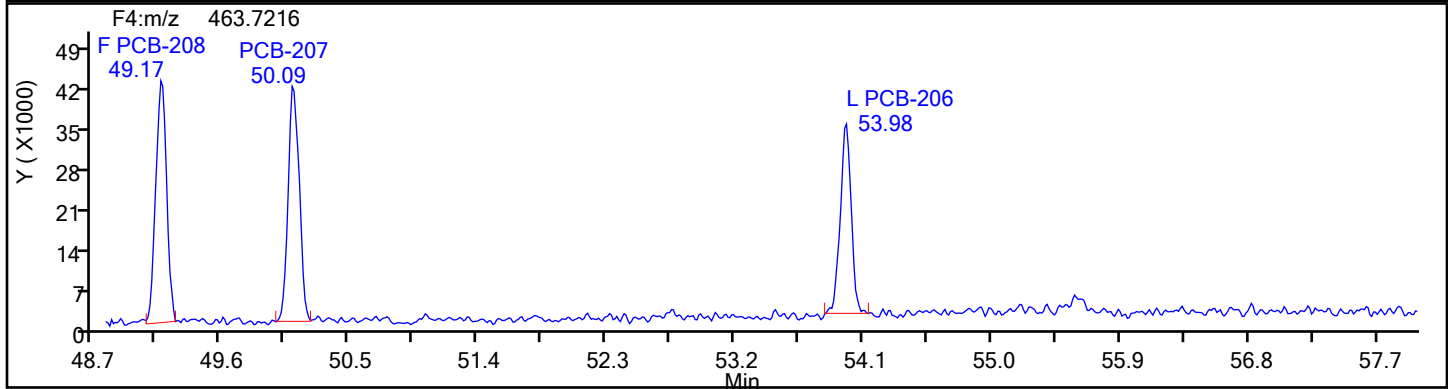
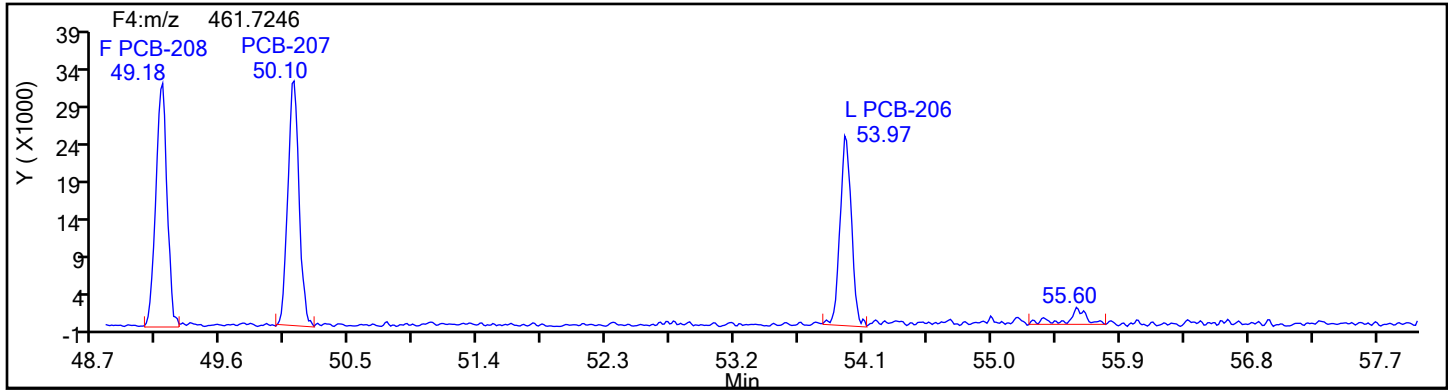


## OcPCB F4 Lock Mass

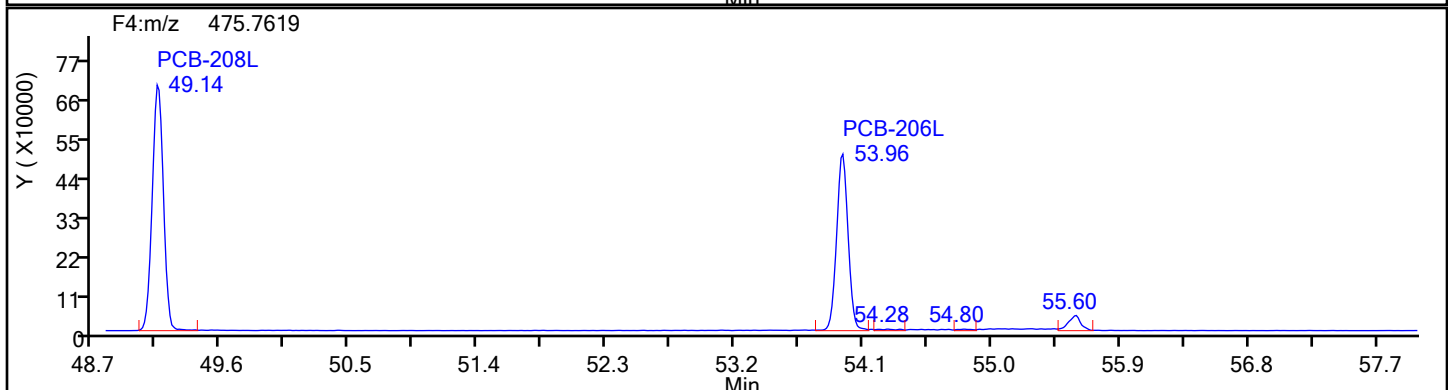
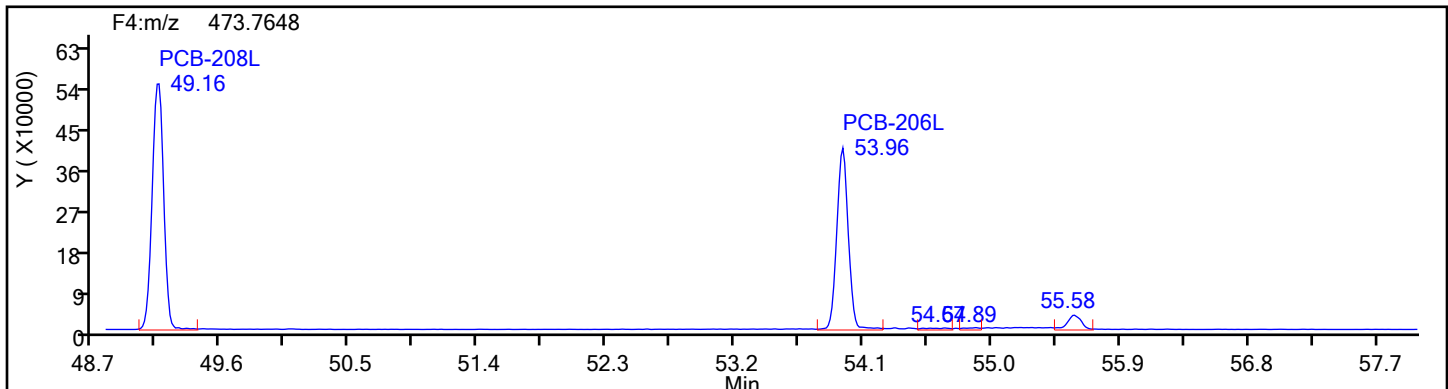


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 3  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

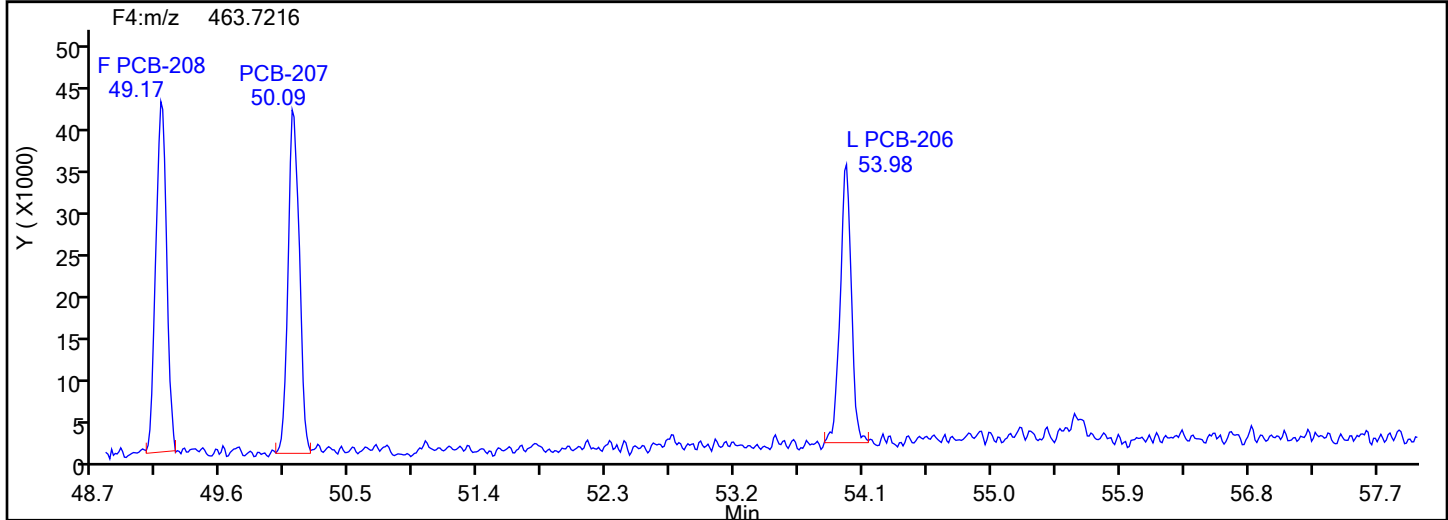
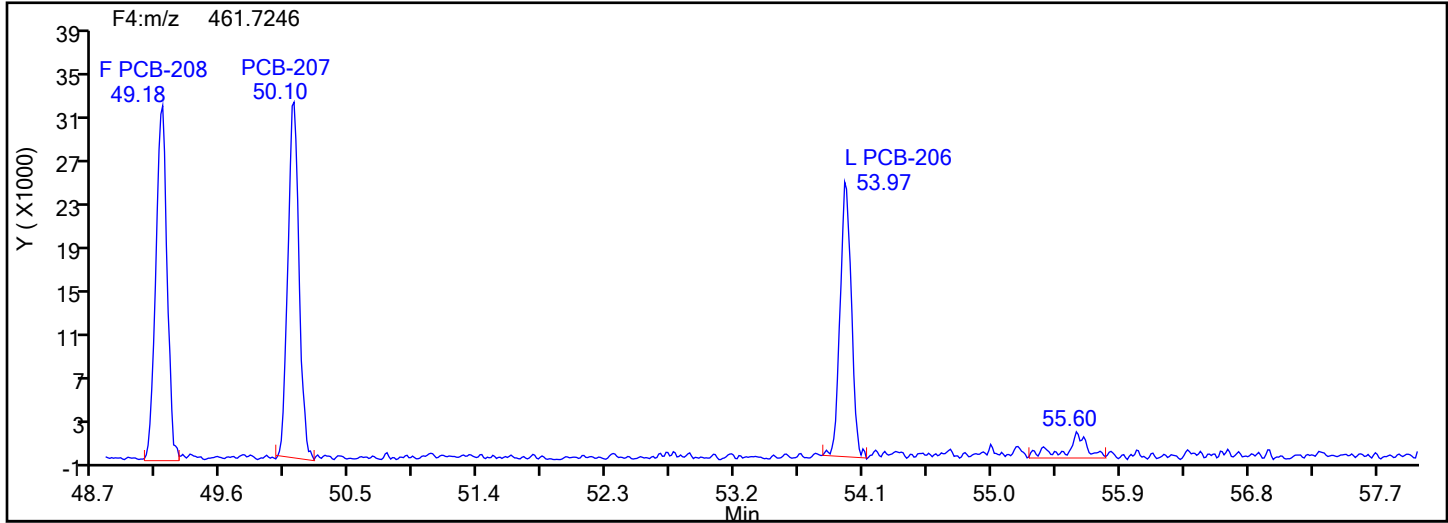


## NoPCB F4 Standards

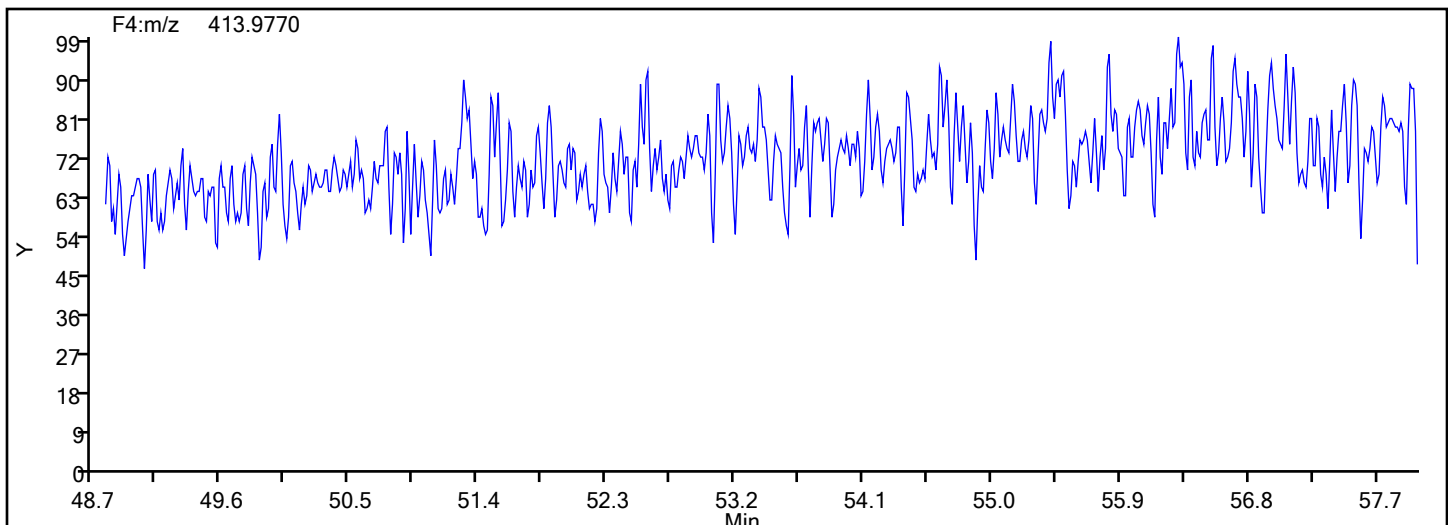


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 3  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



## NoPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

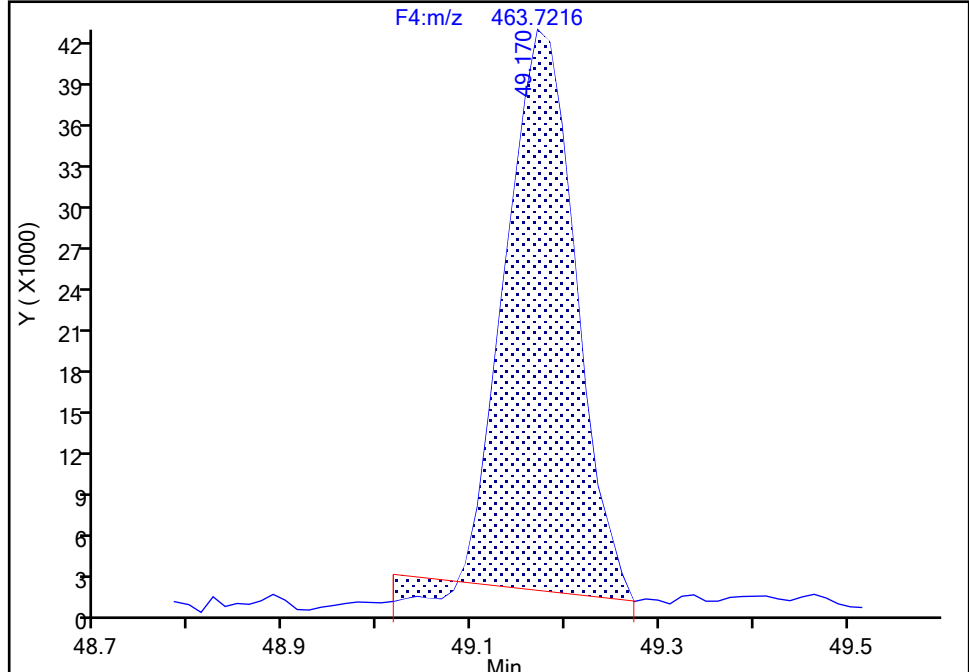
Detector F4(49.20 :57.50 )

PCB-208, CAS: 52663-77-1

Signal: 2

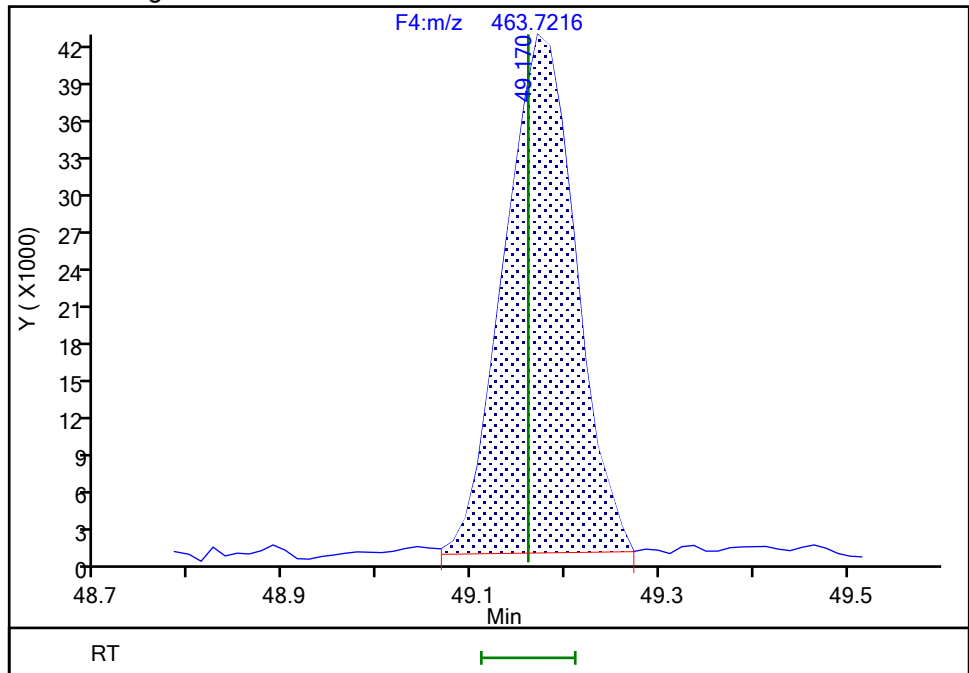
RT: 49.17  
Area: 207739  
Amount: 5.025504  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.17  
Area: 222670  
Amount: 5.121125  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

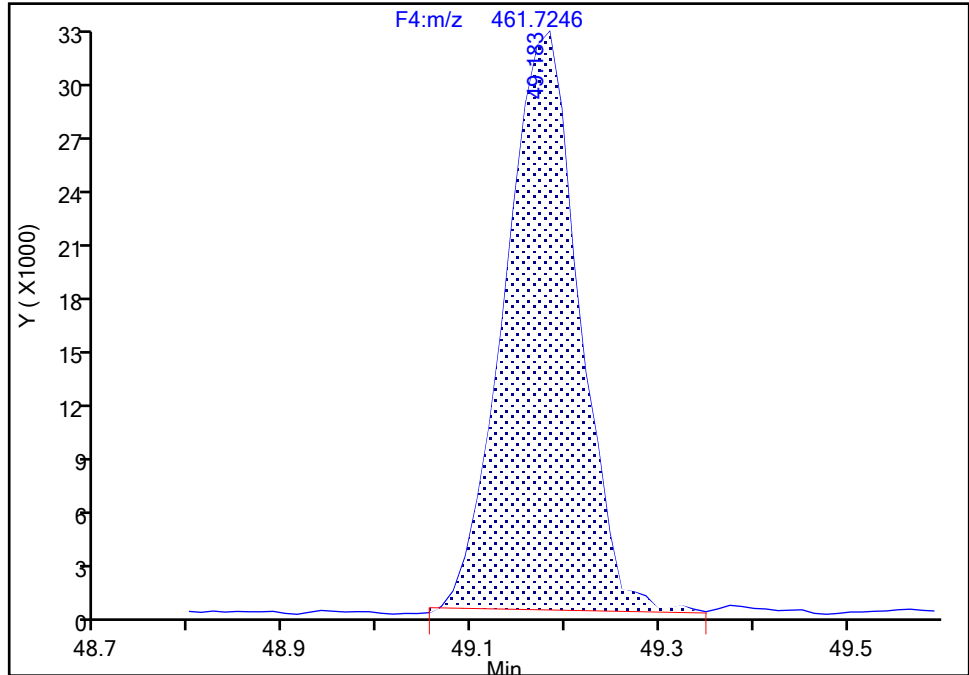
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Instrument ID: D2D  
Lims ID: IC L3  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

PCB-208, CAS: 52663-77-1

Signal: 1

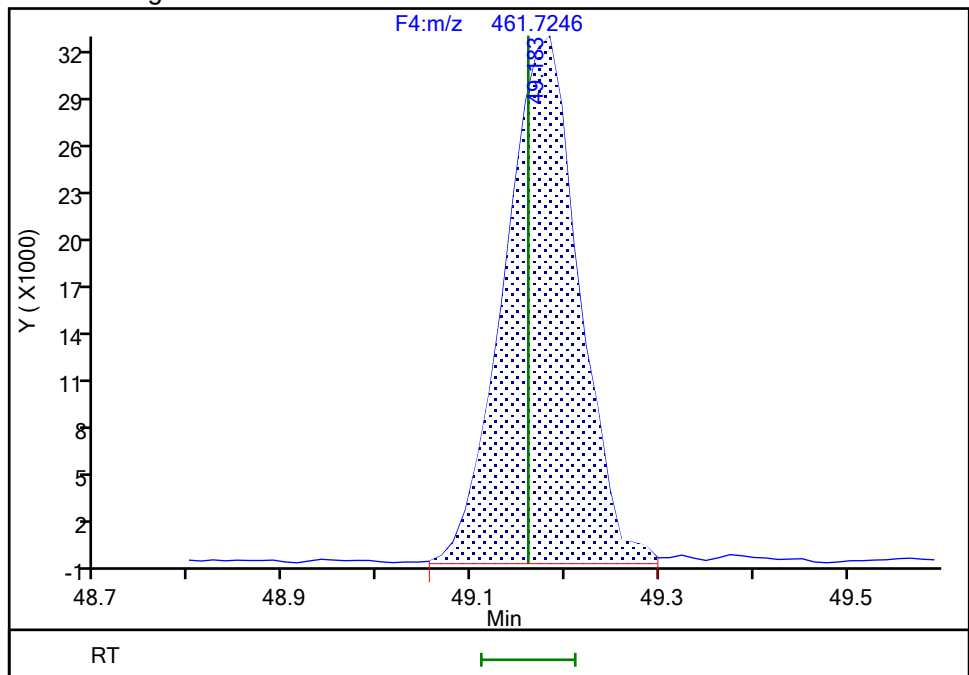
RT: 49.18  
Area: 173223  
Amount: 5.025504  
Amount Units: pg/ul

## Processing Integration Results



RT: 49.18  
Area: 176905  
Amount: 5.121125  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F4  
9/6/2024 3:53:39 PM  
4229

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

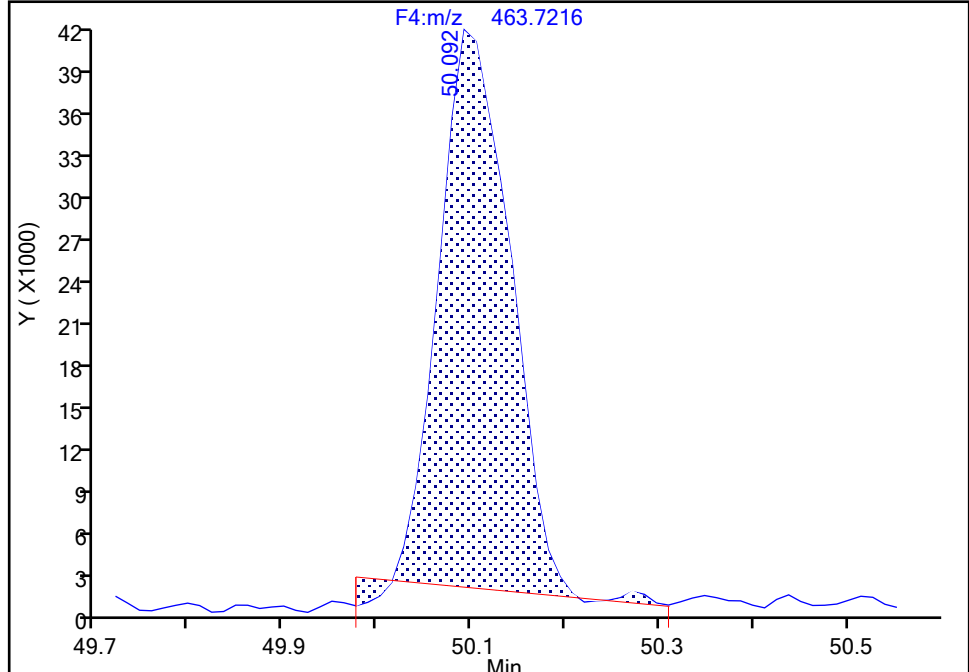
Detector F4(49.20 :57.50 )

PCB-207, CAS: 52663-79-3

Signal: 2

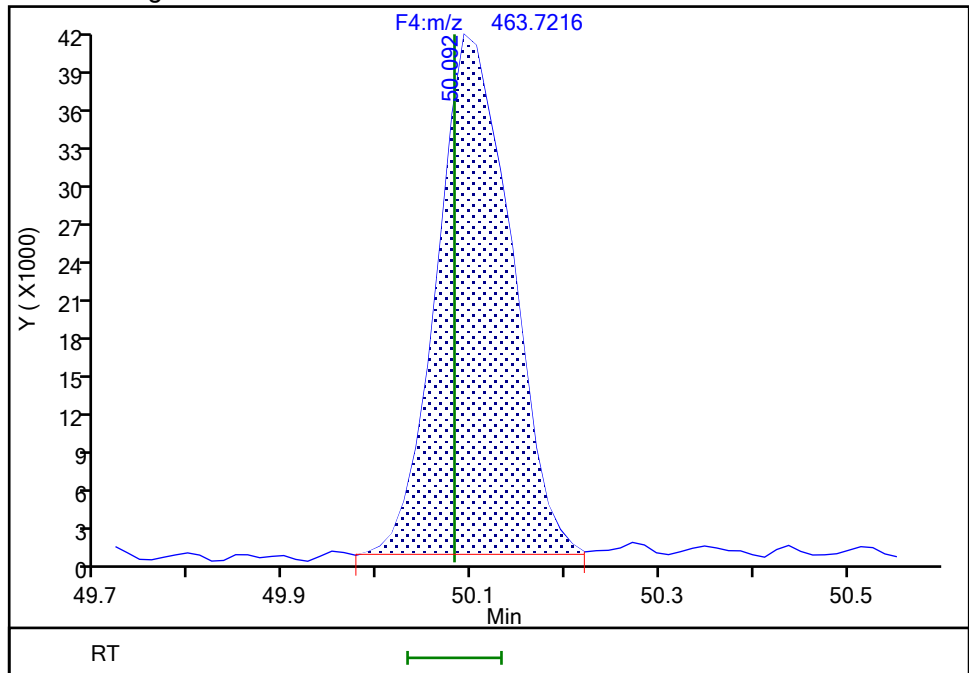
RT: 50.09  
Area: 206224  
Amount: 4.785694  
Amount Units: pg/ul

## Processing Integration Results



RT: 50.09  
Area: 223758  
Amount: 4.884898  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:51:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Instrument ID: D2D

Lims ID: IC L3

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

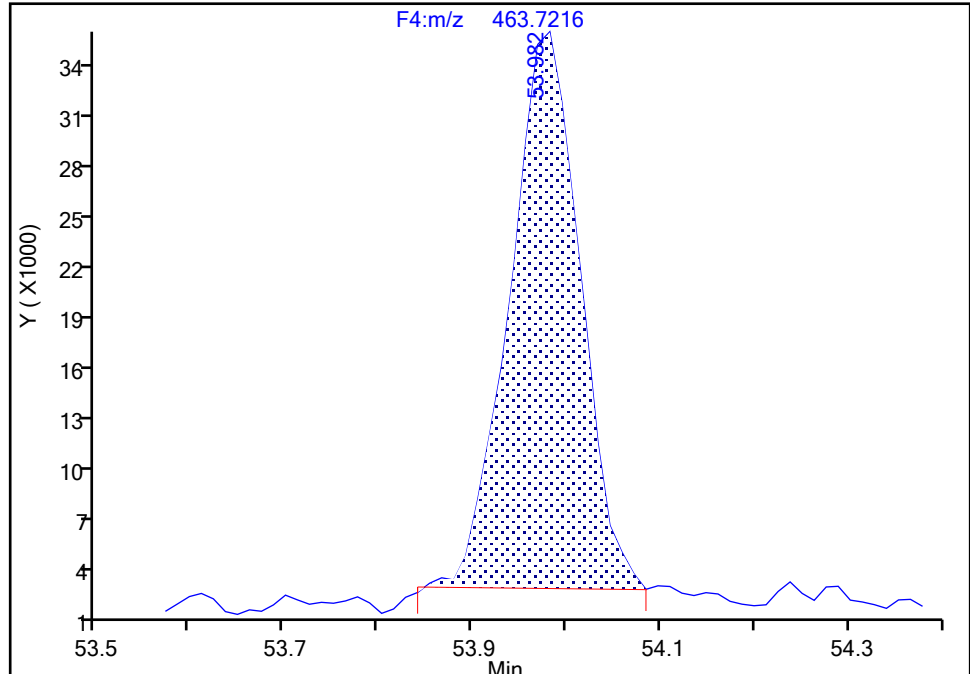
Detector F4(49.20 :57.50 )

PCB-206, CAS: 40186-72-9

Signal: 2

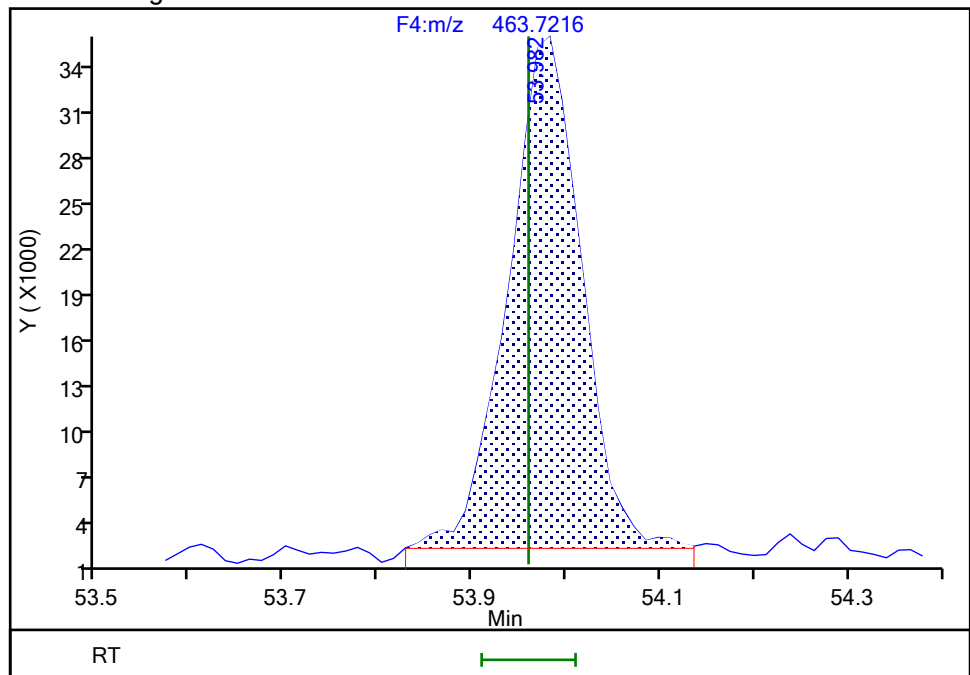
RT: 53.98  
Area: 168889  
Amount: 4.578046  
Amount Units: pg/ul

## Processing Integration Results



RT: 53.98  
Area: 179481  
Amount: 4.733555  
Amount Units: pg/ul

## Manual Integration Results



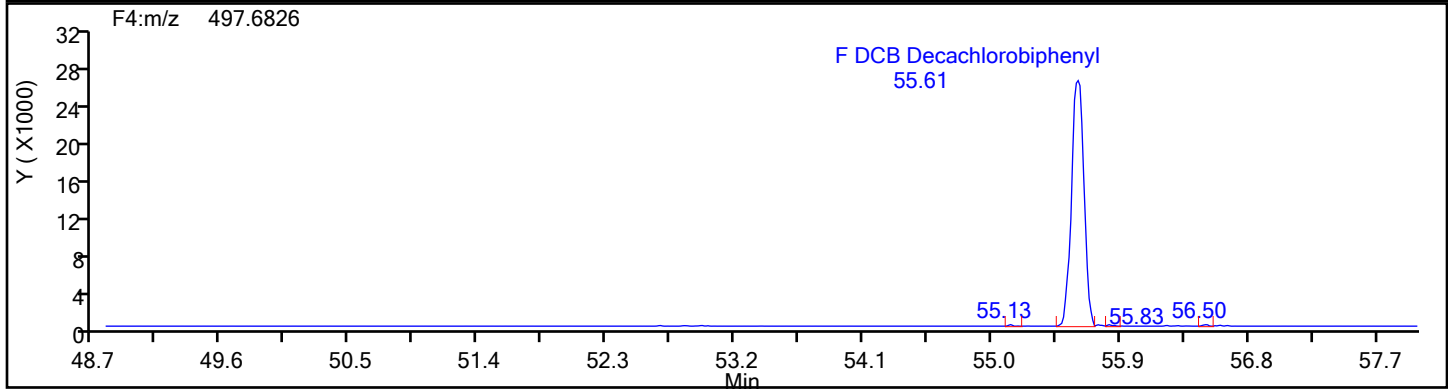
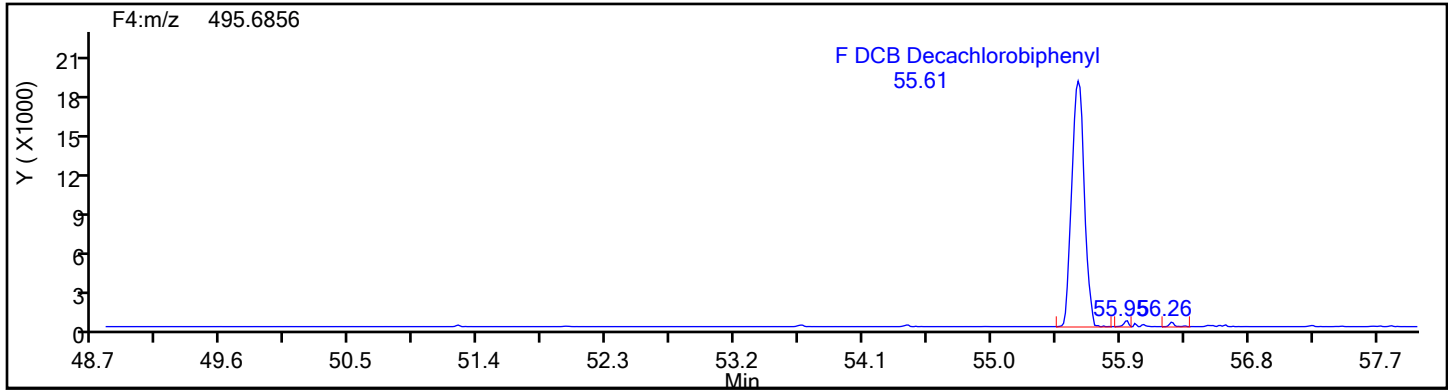
Reviewer: V4XA, 31-May-2024 21:51:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

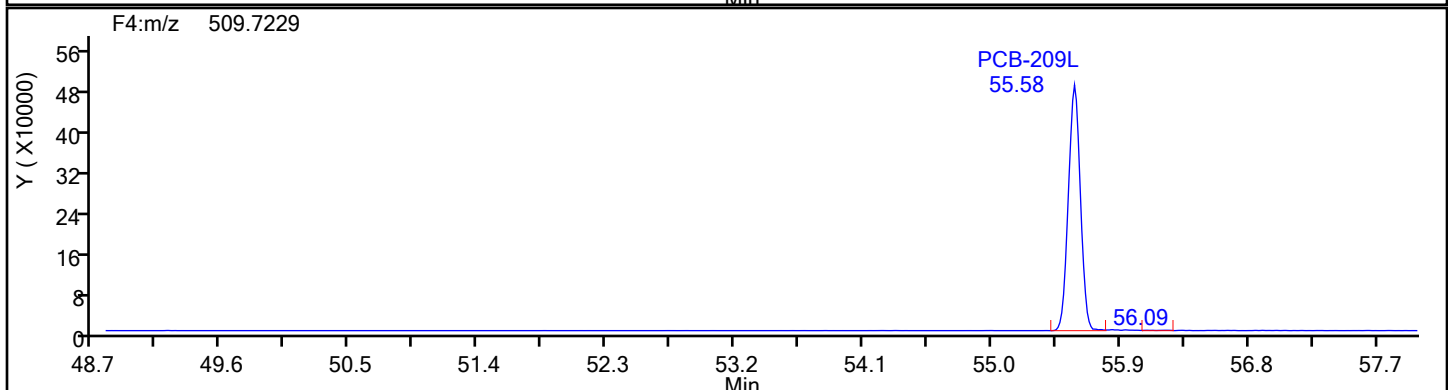
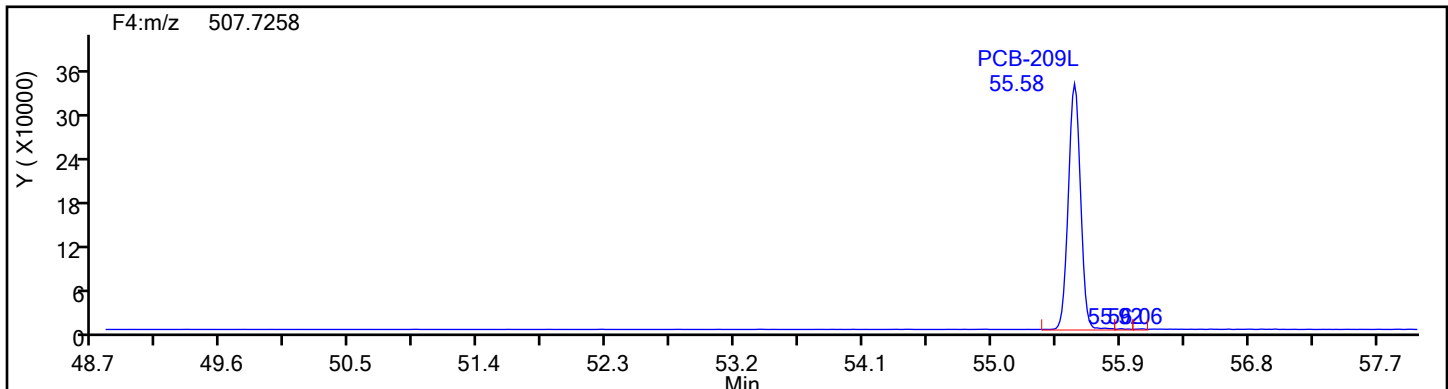
Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d  
Injection Date: 31-May-2024 18:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 3  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi3.d

Injection Date: 31-May-2024 18:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

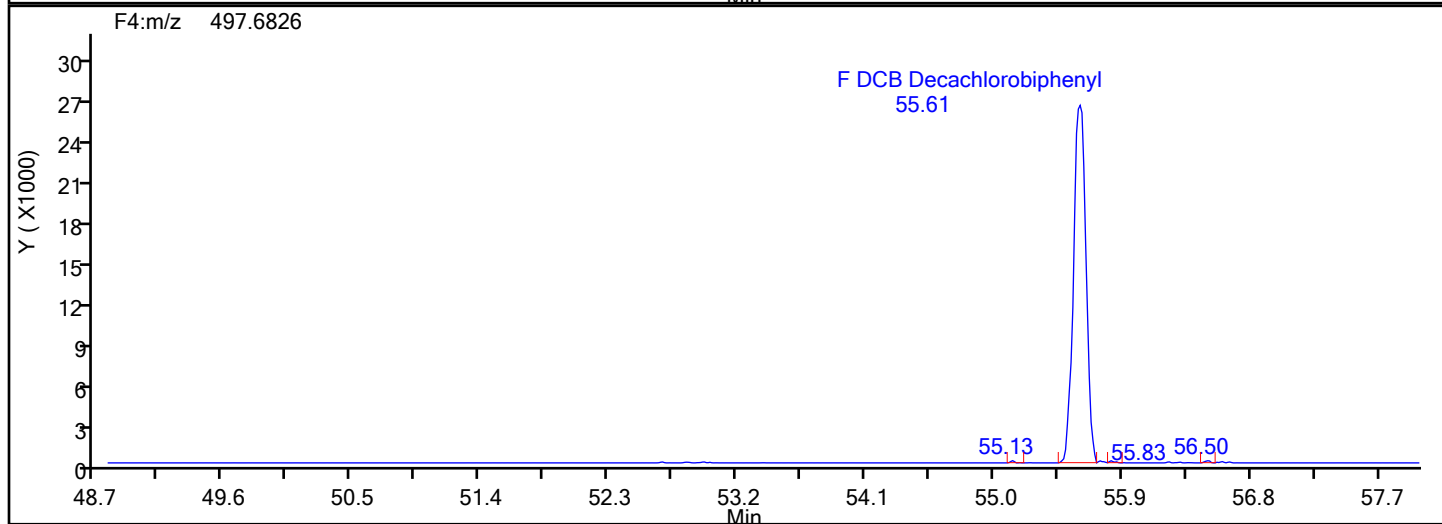
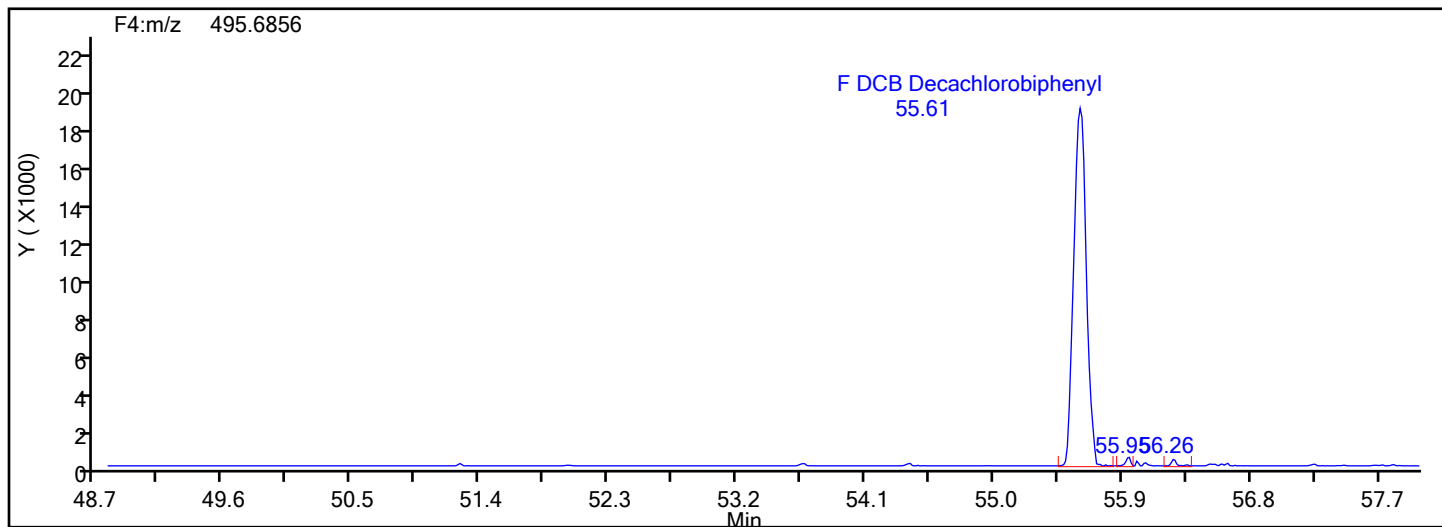
Worklist#: 87130

Sample Line#: 3

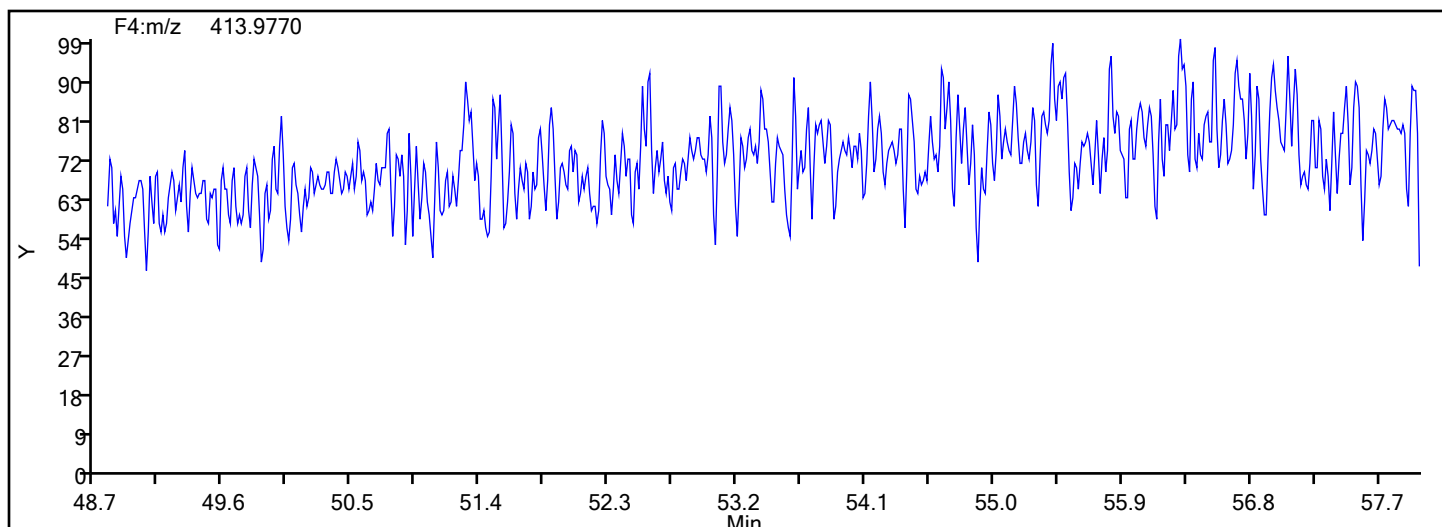
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Lims ID: IC L4  
Client ID:  
Sample Type: IC Calib Level: 4  
Inject. Date: 31-May-2024 19:10:00 ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-004  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:27:46 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 31-May-2024 21:28:40

Compound	RT (min.)	Area	Ratio	lcal RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					149.5	149.5	0.2043	0.2043		
D PCB-1L	11:36	13654287	3.17	1.6108	101.9	101.9	0.3060	0.3060	102	
D PCB-3L	13:46	13165806	3.18	1.5891	99.6	99.6	0.3101	0.3101	99.64	
PCB-1	11:37	8260359	3.19	1.2191	49.6	49.6	0.1822	0.1822	99.25	
PCB-2	13:36	7886042	3.16	1.1805	49.8	49.8	0.2074	0.2074	99.63	
PCB-3	13:47	8044849	3.08	1.2206	50.1	50.1	0.2233	0.2233	100	
S Total Dichlorobiphenyls					596.4	596.4	0.0398	0.0398		
D PCB-4L	14:02	5474214	1.57	0.6475	101.7	101.7	0.1177	0.1177	102	
* PCB-9L	15:59	8314907	1.64		100.0	100.0				
\$ PCB-8L	16:50	4194596	1.64	1.2066	48.5	48.5	0.0758	0.0758	97.04	
D PCB-15L	19:54	8855244	1.66	1.0789	98.7	98.7	0.0706	0.0706	98.71	
PCB-4	14:02	3479874	1.53	1.2818	49.6	49.6	0.0467	0.0467	99.18	
PCB-10	14:13	4792674	1.61	1.3149	50.9	50.9	0.0416	0.0416	102	
PCB-9	16:00	5083530	1.60	1.4224	49.9	49.9	0.0385	0.0385	99.76	
PCB-7	16:10	4950093	1.58	1.4134	48.9	48.9	0.0387	0.0387	97.76	
PCB-6	16:25	5408103	1.60	1.5421	48.9	48.9	0.0355	0.0355	97.90	
PCB-5	16:43	4844644	1.64	1.3395	50.5	50.5	0.0409	0.0409	101	
PCB-8	16:50	5621585	1.60	1.5889	49.4	49.4	0.0344	0.0344	98.76	
PCB-14	18:28	5066034	1.62	1.4025	50.4	50.4	0.0390	0.0390	101	
PCB-11	19:18	4598736	1.60	1.2951	49.6	49.6	0.0423	0.0423	99.12	
PCB-12	19:36	9487445	1.61	1.3358	99.1	99.1	0.0410	0.0410	99.13	
PCB-13 (C12)	19:36	9487445	1.61	1.3358	99.1	99.1	0.0410	0.0410	99.13	
PCB-15	19:55	5621988	1.64	1.2903	49.2	49.2	0.0391	0.0391	98.41	
S Total Trichlorobiphenyls					1185.4	1185.4	0.3790	0.3790		
D PCB-19L	17:08	3406868	1.06	0.6285	100.2	100.2	0.2286	0.2286	100	
* PCB-32L	20:23	5407330	1.09		100.0	100.0				
* PCB-31L	22:38	15561763	1.05		100.0	100.0				
\$ PCB-28L	22:56	7682166	1.04	1.0494	47.0	47.0	0.0838	0.0838	94.08	
D PCB-37L	26:55	13535671	1.07	0.8749	99.4	99.4	0.1006	0.1006	99.41	
PCB-19	17:09	2152324	1.07	1.2809	49.3	49.3	0.0278	0.0278	98.64	
PCB-18	18:59	6054511	1.05	1.7652	100.7	100.7	0.0202	0.0202	101	
PCB-30 (C18)	18:59	6054511	1.05	1.7652	100.7	100.7	0.0202	0.0202	101	
PCB-17	19:26	2122247	1.06	1.2430	50.1	50.1	0.0286	0.0286	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:39	3179572	1.04	1.8327	50.9	50.9	0.0194	0.0194	102	
PCB-24	19:46	2814319	1.03	1.6777	49.2	49.2	0.0212	0.0212	98.48	
PCB-16	19:53	1959828	1.08	1.1286	51.0	51.0	0.0316	0.0316	102	
PCB-32	20:23	3076908	1.05	1.8324	49.3	49.3	0.0194	0.0194	98.57	
PCB-34	21:39	7616885	1.06	1.1277	49.9	49.9	0.5753	0.5753	99.80	
PCB-23	21:48	7186368	1.05	1.0813	49.1	49.1	0.6000	0.6000	98.20	
PCB-26	22:08	14701213	1.05	1.1255	96.5	96.5	0.5765	0.5765	96.50	
PCB-29 (C26)	22:08	14701213	1.05	1.1255	96.5	96.5	0.5765	0.5765	96.50	
PCB-25	22:21	8444656	1.04	1.2728	49.0	49.0	0.5097	0.5097	98.03	
PCB-31	22:40	7458669	1.05	1.1532	47.8	47.8	0.5626	0.5626	95.56	
PCB-20	22:58	15507992	1.06	1.1718	97.8	97.8	0.5537	0.5537	97.77	
PCB-28 (C20)	22:58	15507992	1.06	1.1718	97.8	97.8	0.5537	0.5537	97.77	
PCB-21	23:07	14314146	1.02	1.0746	98.4	98.4	0.6038	0.6038	98.41	M
PCB-33 (C21)	23:07	14314146	1.02	1.0746	98.4	98.4	0.6038	0.6038	98.41	M
PCB-22	23:35	7874512	1.04	1.1932	48.8	48.8	0.5437	0.5437	97.51	
PCB-36	25:09	7632212	1.02	1.1071	50.9	50.9	0.5861	0.5861	102	
PCB-39	25:30	7752224	1.07	1.1581	49.5	49.5	0.5602	0.5602	98.90	
PCB-38	26:05	7153021	1.07	1.0843	48.7	48.7	0.5983	0.5983	97.47	
PCB-35	26:32	7562291	1.04	1.1297	49.5	49.5	0.5743	0.5743	98.91	
PCB-37	26:57	7589418	1.03	1.1435	49.0	49.0	0.5674	0.5674	98.07	
S Total Tetrachlorobiphenyls					2058.1	2058.1	0.5133	0.5133		
D PCB-54L	20:12	3125781	0.82	0.5562	103.9	103.9	0.0976	0.0976	104	
* PCB-52L	24:46	7876230	0.79		100.0	100.0				
\$ PCB-79L	32:41	4986068	0.80	1.0018	49.8	49.8	0.4360	0.4360	99.60	
D PCB-81L	33:41	9689577	0.80	1.2470	98.7	98.7	0.3954	0.3954	98.66	
D PCB-77L	34:14	10298891	0.81	1.3212	99.0	99.0	0.3732	0.3732	98.97	
PCB-54	20:13	2056772	0.78	1.2733	51.7	51.7	0.0450	0.0450	103	
PCB-50	22:24	8406058	0.78	0.8578	98.1	98.1	0.6593	0.6593	98.05	
PCB-53 (C50)	22:24	8406058	0.78	0.8578	98.1	98.1	0.6593	0.6593	98.05	
PCB-45	23:08	8278212	0.78	0.8264	100.2	100.2	0.6844	0.6844	100	M
PCB-51 (C45)	23:08	8278212	0.78	0.8264	100.2	100.2	0.6844	0.6844	100	M
PCB-46	23:22	3495887	0.77	0.7101	49.3	49.3	0.7965	0.7965	98.52	
PCB-52	24:47	4723711	0.77	0.9194	51.4	51.4	0.6151	0.6151	103	M
PCB-43	24:56	10270296	0.79	1.0333	99.4	99.4	0.5473	0.5473	99.45	Ma
PCB-73 (C43)	24:56	10270296	0.79	1.0333	99.4	99.4	0.5473	0.5473	99.45	Ma
PCB-49	25:14	10490769	0.77	1.0685	98.2	98.2	0.5293	0.5293	98.24	Ma
PCB-69 (C49)	25:14	10490769	0.77	1.0685	98.2	98.2	0.5293	0.5293	98.24	Ma
PCB-48	25:33	4096041	0.78	0.8399	48.8	48.8	0.6734	0.6734	97.59	
PCB-44	25:48	14013306	0.80	0.9731	144.1	144.1	0.5812	0.5812	96.06	
PCB-47 (C44)	25:48	14013306	0.80	0.9731	144.1	144.1	0.5812	0.5812	96.06	
PCB-65 (C44)	25:48	14013306	0.80	0.9731	144.1	144.1	0.5812	0.5812	96.06	
PCB-59	26:06	16871670	0.80	1.1853	142.4	142.4	0.4772	0.4772	94.95	
PCB-62 (C59)	26:06	16871670	0.80	1.1853	142.4	142.4	0.4772	0.4772	94.95	
PCB-75 (C59)	26:06	16871670	0.80	1.1853	142.4	142.4	0.4772	0.4772	94.95	
PCB-42	26:18	4062353	0.81	0.8097	50.2	50.2	0.6985	0.6985	100	
PCB-40	26:48	12777370	0.80	0.8863	144.2	144.2	0.6381	0.6381	96.16	M
PCB-41 (C40)	26:48	12777370	0.80	0.8863	144.2	144.2	0.6381	0.6381	96.16	M
PCB-71 (C40)	26:48	12777370	0.80	0.8863	144.2	144.2	0.6381	0.6381	96.16	M
PCB-64	27:01	5640018	0.80	1.1776	47.9	47.9	0.4803	0.4803	95.85	
PCB-72	27:51	5513402	0.79	1.0943	50.4	50.4	0.5168	0.5168	101	
PCB-68	28:09	6342042	0.80	1.2533	50.6	50.6	0.4513	0.4513	101	
PCB-57	28:34	5445573	0.80	1.0818	50.4	50.4	0.5228	0.5228	101	
PCB-58	28:48	6808166	0.80	1.3253	51.4	51.4	0.4267	0.4267	103	
PCB-67	28:58	6875936	0.80	1.4230	48.3	48.3	0.3974	0.3974	96.69	
PCB-63	29:14	5498511	0.83	1.1240	48.9	48.9	0.5032	0.5032	97.90	
PCB-61	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-70 (C61)	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-74 (C61)	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-76 (C61)	29:34	24255009	0.80	1.2612	192.4	192.4	0.4484	0.4484	96.21	M
PCB-66	29:53	6312222	0.82	1.2583	50.2	50.2	0.4495	0.4495	100	
PCB-55	30:03	6483526	0.82	1.3236	49.0	49.0	0.4273	0.4273	98.02	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:33	6041547	0.81	1.2334	49.0	49.0	0.4585	0.4585	98.02	
PCB-60	30:46	5475280	0.80	1.1230	48.8	48.8	0.5036	0.5036	97.56	
PCB-80	31:11	6451950	0.77	1.3243	48.7	48.7	0.4271	0.4271	97.50	
PCB-79	32:42	6861599	0.79	1.4368	47.8	47.8	0.3936	0.3936	95.57	
PCB-78	33:15	5506314	0.78	1.1618	47.4	47.4	0.4868	0.4868	94.84	
PCB-81	33:42	5214743	0.78	1.0802	49.8	49.8	0.5270	0.5270	99.64	
PCB-77	34:16	5446719	0.76	1.0836	48.8	48.8	0.5186	0.5186	97.61	
S Total Pentachlorobiphenyls					2266.8	2266.8	0.2696	0.2696		
D PCB-104L	25:42	6455349	1.58	1.2161	101.5	101.5	0.0397	0.0397	102	
\$ PCB-95L	28:41	2314965	1.62	0.7218	49.7	49.7	0.0503	0.0503	99.37	
* PCB-101L	31:37	5228368	1.60		100.0	100.0				
\$ PCB-111L	34:17	3399701	1.59	1.3699	47.5	47.5	0.0353	0.0353	94.93	
D PCB-123L	36:15	9501201	1.57	0.9731	98.3	98.3	1.116	1.116	98.31	
D PCB-118L	36:34	10094764	1.57	1.0102	100.6	100.6	1.076	1.076	101	
D PCB-114L	37:06	9734953	1.60	0.9949	98.5	98.5	1.092	1.092	98.52	
D PCB-105L	37:45	9433900	1.59	0.9514	99.8	99.8	1.142	1.142	99.84	
* PCB-127L	39:14	9931738	1.57		100.0	100.0				
D PCB-126L	40:50	9388684	1.57	0.9439	100.2	100.2	1.151	1.151	100	
PCB-104	25:44	3284431	1.56	1.0087	50.4	50.4	0.0203	0.0203	101	
PCB-96	26:06	3505288	1.58	1.0940	49.6	49.6	0.0187	0.0187	99.27	
PCB-103	28:02	2810660	1.58	0.8741	49.8	49.8	0.0235	0.0235	99.62	
PCB-94	28:16	2353932	1.58	0.7640	47.7	47.7	0.0268	0.0268	95.46	
PCB-95	28:42	2613771	1.60	0.8033	50.4	50.4	0.0255	0.0255	101	
PCB-93	28:55	5326508	1.58	0.8429	97.9	97.9	0.0243	0.0243	97.90	
PCB-100 (C93)	28:55	5326508	1.58	0.8429	97.9	97.9	0.0243	0.0243	97.90	
PCB-98	29:04	5294749	1.60	0.8262	99.3	99.3	0.0248	0.0248	99.28	
PCB-102 (C98)	29:04	5294749	1.60	0.8262	99.3	99.3	0.0248	0.0248	99.28	
PCB-88	29:33	5073604	1.60	0.8013	98.1	98.1	0.0256	0.0256	98.09	
PCB-91 (C88)	29:33	5073604	1.60	0.8013	98.1	98.1	0.0256	0.0256	98.09	
PCB-84	29:47	2297413	1.57	0.7299	48.8	48.8	0.0281	0.0281	97.51	
PCB-89	30:16	2424086	1.59	0.7798	48.2	48.2	0.0263	0.0263	96.31	
PCB-121	30:41	4144482	1.64	1.2964	49.5	49.5	0.0158	0.0158	99.05	
PCB-92	31:03	2724348	1.60	0.8546	49.4	49.4	0.0240	0.0240	98.77	
PCB-90	31:37	9126697	1.58	0.9550	148.0	148.0	0.0215	0.0215	98.70	
PCB-101 (C90)	31:37	9126697	1.58	0.9550	148.0	148.0	0.0215	0.0215	98.70	
PCB-113 (C90)	31:37	9126697	1.58	0.9550	148.0	148.0	0.0215	0.0215	98.70	
PCB-83	32:13	5527064	1.61	0.8385	102.1	102.1	0.0245	0.0245	102	
PCB-99 (C83)	32:13	5527064	1.61	0.8385	102.1	102.1	0.0245	0.0245	102	
PCB-112	32:20	4359398	1.58	1.4111	47.9	47.9	0.0145	0.0145	95.71	
PCB-86	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-87 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-97 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-109 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-119 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-125 (C86)	32:42	19399175	1.60	1.0473	286.9	286.9	0.0196	0.0196	95.65	M
PCB-85	33:25	9894792	1.61	1.0408	147.3	147.3	0.0197	0.0197	98.18	
PCB-116 (C85)	33:25	9894792	1.61	1.0408	147.3	147.3	0.0197	0.0197	98.18	
PCB-117 (C85)	33:25	9894792	1.61	1.0408	147.3	147.3	0.0197	0.0197	98.18	
PCB-110	33:37	7463251	1.57	1.1919	97.0	97.0	0.0172	0.0172	97.00	
PCB-115 (C110)	33:37	7463251	1.57	1.1919	97.0	97.0	0.0172	0.0172	97.00	
PCB-82	33:55	2659391	1.54	0.8303	49.6	49.6	0.0247	0.0247	99.23	
PCB-111	34:19	3825096	1.57	1.2125	48.9	48.9	0.0169	0.0169	97.74	
PCB-120	34:47	4697232	1.59	1.4762	49.3	49.3	0.0139	0.0139	98.58	
PCB-108	35:55	10706077	1.59	1.1405	97.5	97.5	0.7702	0.7702	97.47	
PCB-124 (C108)	35:55	10706077	1.59	1.1405	97.5	97.5	0.7702	0.7702	97.47	
PCB-107	36:09	5897415	1.57	1.2121	50.5	50.5	0.7248	0.7248	101	
PCB-123	36:16	5033992	1.69	1.0722	49.4	49.4	0.8206	0.8206	98.83	
PCB-106	36:23	5140106	1.45	1.0839	49.2	49.2	0.8105	0.8105	98.48	
PCB-118	36:36	6016008	1.58	1.2055	49.4	49.4	0.6916	0.6916	98.87	
PCB-122	36:56	4709445	1.58	0.9567	51.1	51.1	0.9182	0.9182	102	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:08	5307527	1.60	1.0842	50.3	50.3	0.7830	0.7830	101	
PCB-105	37:46	5526391	1.56	1.1879	49.3	49.3	0.7574	0.7574	98.63	
PCB-127	39:15	5642766	1.59	1.1394	51.4	51.4	0.7710	0.7710	103	
PCB-126	40:52	5411840	1.55	1.0976	52.5	52.5	0.8545	0.8545	105	
S Total Hexachlorobiphenyls					2088.6	2088.6	0.2613	0.2613		
D PCB-155L	31:23	5786925	1.29	1.0851	102.0	102.0	0.0250	0.0250	102	
\$ PCB-153L	38:27	3417541	1.31	0.9169	45.8	45.8	0.9578	0.9578	91.68	
* PCB-138L	39:41	6594689	1.30		100.0	100.0				
\$ PCB-159L	41:56	4385171	1.29	0.5118	102.9	102.9	1.435	1.435	103	
D PCB-167L	42:42	8329121	1.28	1.2572	100.5	100.5	0.7283	0.7283	100	
D PCB-156L	43:51	16048883	1.29	1.2106	201.0	201.0	0.7563	0.7563	101	
D PCB-157L (C156L)	43:51	16048883	1.29	1.2106	201.0	201.0	0.7563	0.7563	101	
D PCB-169L	47:05	8145884	1.28	1.2439	99.3	99.3	0.7361	0.7361	99.31	
PCB-155	31:25	2757196	1.29	0.9444	50.4	50.4	0.006493	0.006493	101	
PCB-152	31:36	2752865	1.25	0.9895	48.1	48.1	0.006197	0.006197	96.15	
PCB-150	31:46	2933125	1.28	1.0132	50.0	50.0	0.006052	0.006052	100	
PCB-136	32:08	2858801	1.28	1.0116	48.8	48.8	0.006062	0.006062	97.67	
PCB-145	32:25	2773933	1.29	0.9685	49.5	49.5	0.006331	0.006331	98.99	
PCB-148	33:57	2176255	1.30	0.7603	49.5	49.5	0.008065	0.008065	98.93	
PCB-135	34:32	4192182	1.24	0.7256	99.8	99.8	0.008451	0.008451	99.84	Ma
PCB-151 (C135)	34:32	4192182	1.24	0.7256	99.8	99.8	0.008451	0.008451	99.84	Ma
PCB-154	34:47	2371495	1.28	0.8129	50.4	50.4	0.007543	0.007543	101	
PCB-144	35:06	2232331	1.26	0.7852	49.1	49.1	0.007809	0.007809	98.25	
PCB-147	35:27	7067120	1.26	0.8950	97.1	97.1	0.3814	0.3814	97.12	
PCB-149 (C147)	35:27	7067120	1.26	0.8950	97.1	97.1	0.3814	0.3814	97.12	
PCB-134	35:45	6440496	1.27	0.7967	99.4	99.4	0.4285	0.4285	99.42	
PCB-143 (C134)	35:45	6440496	1.27	0.7967	99.4	99.4	0.4285	0.4285	99.42	
PCB-139	36:04	7038694	1.27	0.8769	98.7	98.7	0.3893	0.3893	98.72	
PCB-140 (C139)	36:04	7038694	1.27	0.8769	98.7	98.7	0.3893	0.3893	98.72	
PCB-131	36:15	3018928	1.27	0.7503	49.5	49.5	0.4549	0.4549	98.97	M
PCB-142	36:24	3115155	1.25	0.7507	51.0	51.0	0.4547	0.4547	102	M
PCB-132	36:43	2979191	1.25	0.7489	48.9	48.9	0.4558	0.4558	97.85	
PCB-133	37:14	3245992	1.28	0.8096	49.3	49.3	0.4216	0.4216	98.62	
PCB-165	37:37	4186901	1.30	1.0247	50.3	50.3	0.3331	0.3331	101	
PCB-146	37:52	3845405	1.27	0.9637	49.1	49.1	0.3542	0.3542	98.15	
PCB-161	38:00	4666072	1.28	1.1288	50.8	50.8	0.3024	0.3024	102	
PCB-153	38:30	8944568	1.26	1.0938	100.6	100.6	0.3121	0.3121	101	
PCB-168 (C153)	38:30	8944568	1.26	1.0938	100.6	100.6	0.3121	0.3121	101	
PCB-141	38:41	3461353	1.29	0.8755	48.6	48.6	0.3899	0.3899	97.25	
PCB-130	39:05	2838645	1.29	0.7051	49.5	49.5	0.4841	0.4841	99.02	
PCB-137	39:18	3298456	1.24	0.7767	52.2	52.2	0.4395	0.4395	104	
PCB-164	39:26	4200180	1.28	1.0382	49.8	49.8	0.3288	0.3288	99.51	
PCB-129	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-138 (C129)	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-160 (C129)	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-163 (C129)	39:44	15110013	1.26	0.9464	196.4	196.4	0.3607	0.3607	98.18	M
PCB-158	40:07	5319521	1.25	1.3110	49.9	49.9	0.2604	0.2604	99.80	
PCB-128	40:57	8124665	1.22	0.9829	101.7	101.7	0.3473	0.3473	102	
PCB-166 (C128)	40:57	8124665	1.22	0.9829	101.7	101.7	0.3473	0.3473	102	
PCB-159	41:58	5578541	1.29	1.3856	49.5	49.5	0.2463	0.2463	99.03	
PCB-162	42:15	5046359	1.24	1.2571	49.4	49.4	0.2715	0.2715	98.74	
PCB-167	42:44	4608166	1.28	1.1159	49.6	49.6	0.2558	0.2558	99.16	
PCB-156	43:53	8938406	1.25	1.1104	100.3	100.3	0.3748	0.3748	100	
PCB-157 (C156)	43:53	8938406	1.25	1.1104	100.3	100.3	0.3748	0.3748	100	
PCB-169	47:06	4858941	1.28	1.1628	51.3	51.3	0.2522	0.2522	103	
S Total Heptachlorobiphenyls					1208.3	1208.3	0.0110	0.0110		
D PCB-188L	37:07	6587579	1.06	1.3133	100.8	100.8	0.0326	0.0326	101	
\$ PCB-178L	40:10	2454141	1.07	1.0313	47.8	47.8	0.0415	0.0415	95.61	
* PCB-180L	45:15	4977558	1.07		100.0	100.0				



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:30	4156589	1.07	0.8362	99.9	99.9	0.0512	0.0512	99.86	
D PCB-189L	49:37	10070777	1.06	1.4414	99.7	99.7	0.4358	0.4358	99.65	
PCB-188	37:08	3706640	1.06	1.1350	49.6	49.6	0.001884	0.001884	99.15	
PCB-179	37:28	3733944	1.05	1.4276	48.7	48.7	0.001869	0.001869	97.38	
PCB-184	38:00	3714498	1.04	1.3672	50.6	50.6	0.001951	0.001951	101	
PCB-176	38:21	3337458	1.06	1.2331	50.4	50.4	0.002164	0.002164	101	
PCB-186	38:48	4051516	1.07	1.4737	51.2	51.2	0.001810	0.001810	102	
PCB-178	40:11	2440485	1.05	0.8946	50.8	50.8	0.002982	0.002982	102	
PCB-175	40:49	2569891	1.05	0.9524	50.2	50.2	0.002801	0.002801	100	
PCB-187	41:05	3023234	1.04	1.1018	51.1	51.1	0.002421	0.002421	102	
PCB-182	41:18	2647036	1.05	0.9247	53.3	53.3	0.002885	0.002885	107	
PCB-183	41:42	5114533	1.06	0.9825	96.9	96.9	0.002715	0.002715	96.90	Ma
PCB-185 (C183)	41:42	5114533	1.06	0.9825	96.9	96.9	0.002715	0.002715	96.90	Ma
PCB-174	41:56	2681848	1.06	0.9642	51.8	51.8	0.002767	0.002767	104	
PCB-177	42:22	2633576	1.00	0.9773	50.2	50.2	0.002730	0.002730	100	
PCB-181	42:45	2521026	1.08	0.9505	49.4	49.4	0.002807	0.002807	98.74	
PCB-171	42:59	4804669	1.06	0.9336	95.8	95.8	0.002857	0.002857	95.79	
PCB-173 (C171)	42:59	4804669	1.06	0.9336	95.8	95.8	0.002857	0.002857	95.79	
PCB-172	44:37	2347963	1.05	0.8519	51.3	51.3	0.003132	0.003132	103	
PCB-192	44:54	3758142	1.06	1.3459	52.0	52.0	0.001982	0.001982	104	
PCB-180	45:14	6380540	1.07	1.1676	101.7	101.7	0.002285	0.002285	102	
PCB-193 (C180)	45:14	6380540	1.07	1.1676	101.7	101.7	0.002285	0.002285	102	
PCB-191	45:37	3590548	1.05	1.2891	51.8	51.8	0.002069	0.002069	104	
PCB-170	46:32	2504084	1.04	1.1865	50.8	50.8	0.002987	0.002987	102	
PCB-190	47:02	3582145	1.06	1.3322	50.1	50.1	0.002002	0.002002	100	
PCB-189	49:38	4928731	1.04	0.9633	50.8	50.8	0.1812	0.1812	102	
S Total Octachlorobiphenyls					612.5	612.5	0.0700	0.0700		
D PCB-202L	42:28	4754288	0.90	0.9818	97.3	97.3	0.0212	0.0212	97.28	
* PCB-194L	51:43	7011099	0.92		100.0	100.0				
D PCB-205L	52:11	8337493	0.91	1.1786	100.9	100.9	0.0820	0.0820	101	
PCB-202	42:29	2654251	0.89	1.0359	53.9	53.9	0.0331	0.0331	108	
PCB-201	43:25	2419114	0.90	0.9754	52.2	52.2	0.0352	0.0352	104	
PCB-204	44:05	2562540	0.91	1.0485	51.4	51.4	0.0327	0.0327	103	
PCB-197	44:19	2790933	0.91	1.1458	51.2	51.2	0.0300	0.0300	102	
PCB-200	44:25	2461217	0.92	1.0072	51.4	51.4	0.0341	0.0341	103	
PCB-198	47:12	4197692	0.90	0.8698	101.5	101.5	0.0395	0.0395	102	
PCB-199 (C198)	47:12	4197692	0.90	0.8698	101.5	101.5	0.0395	0.0395	102	
PCB-196	47:53	1892682	0.92	0.7806	51.0	51.0	0.0440	0.0440	102	
PCB-203	48:05	2289580	0.93	0.9292	51.8	51.8	0.0369	0.0369	104	
PCB-195	49:23	3431947	0.91	0.8263	49.8	49.8	0.1859	0.1859	99.63	
PCB-194	51:44	3967420	0.90	0.9735	48.9	48.9	0.1578	0.1578	97.76	
PCB-205	52:13	4478090	0.90	1.0878	49.4	49.4	0.1412	0.1412	98.75	
S Total Nonachlorobiphenyls					146.1	146.1	0.2808	0.2808		
D PCB-208L	49:09	6680775	0.81	0.9576	99.5	99.5	0.2875	0.2875	99.51	
D PCB-206L	53:57	4903942	0.82	0.6947	100.7	100.7	0.3963	0.3963	101	
PCB-208	49:10	3774592	0.80	1.1374	49.7	49.7	0.2671	0.2671	99.34	
PCB-207	50:05	3878521	0.81	1.3756	48.7	48.7	0.2574	0.2574	97.35	
PCB-206	53:58	3124562	0.77	1.3346	47.7	47.7	0.3178	0.3178	95.48	M
D PCB-209L	55:34	4723291	0.71	0.6669	101.0	101.0	0.0521	0.0521	101	
DCB Decachlorobiphenyl	55:36	2603740	0.72	1.1004	50.1	50.1	0.0318	0.0318	100	
S Polychlorinated biphenyls, Total					10212	10212	0.2063	0.2063		

### QC Flag Legend

Processing Flags



61CV1668CS3\_00019

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d  
Lims ID: IC L4  
Client ID:  
Sample Type: IC Calib Level: 4  
Inject. Date: 31-May-2024 19:10:00 ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-004  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:27:46 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 31-May-2024 21:28:40

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	0	0.726	10378292	4043023	3400	8500	1189		
202.0766	11:36	11:36	0	0.726	3275995	1290206	1313	3282	983	3.17(2.66-3.60)	
PCB-3L											
200.0795	13:46	13:46	0	0.861	10013550	3298535	3400	8500	970		
202.0766	13:46	13:46	0	0.861	3152256	1047697	1313	3282	798	3.18(2.66-3.60)	
PCB-1											
188.0393	11:37	11:37	0	1.001	6290617	2506209	3342	8355	750		
190.0363	11:37	11:37	0	1.001	1969742	792083	1397	3492	567	3.19(2.66-3.60)	
PCB-2											
188.0393	13:36	13:36	0	0.989	5988227	2039269	3342	8355	610		
190.0363	13:36	13:36	0	0.989	1897815	648319	1397	3492	464	3.16(2.66-3.60)	
PCB-3											
188.0393	13:47	13:47	0	1.001	6073593	2001565	3342	8355	599		
190.0363	13:47	13:47	0	1.001	1971256	645771	1397	3492	462	3.08(2.66-3.60)	
PCB-4L											
234.0406	14:02	14:02	0	0.877	3346902	1112979	579	1447	1922		
236.0376	14:02	14:02	0	0.877	2127312	706863	150	375	4712	1.57(1.33-1.79)	
PCB-9L											
234.0406	15:59	15:59	0		5162483	1476828	579	1447	2551		
236.0376	15:59	15:59	0		3152424	913781	150	375	6092	1.64(1.33-1.79)	
PCB-8L											
234.0406	16:50	16:50	0	1.200	2605493	729678	579	1447	1260		
236.0376	16:50	16:50	0	1.200	1589103	443557	150	375	2957	1.64(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:54	19:54	0	1.245	5520100	1337303	579	1447	2310		
236.0376	19:54	19:54	0	1.245	3335144	825967	150	375	5506	1.66(1.33-1.79)	
PCB-4											
222.0003	14:02	14:02	0	1.001	2103864	704389	136	340	5179		
223.9974	14:02	14:02	0	1.001	1376010	460635	300	750	1535	1.53(1.33-1.79)	
PCB-10											
222.0003	14:13	14:13	0	1.013	2953900	957858	136	340	7043		
223.9974	14:13	14:13	0	1.013	1838774	593970	300	750	1980	1.61(1.33-1.79)	
PCB-9											
222.0003	16:00	16:00	0	1.141	3130109	895194	136	340	6582		
223.9974	16:00	16:00	0	1.141	1953421	563607	300	750	1879	1.60(1.33-1.79)	
PCB-7											
222.0003	16:10	16:10	0	1.153	3033451	871987	136	340	6412		
223.9974	16:10	16:10	0	1.153	1916642	545950	300	750	1820	1.58(1.33-1.79)	
PCB-6											
222.0003	16:25	16:25	0	1.171	3328817	918018	136	340	6750		
223.9974	16:25	16:25	0	1.171	2079286	571130	300	750	1904	1.60(1.33-1.79)	
PCB-5											
222.0003	16:43	16:43	0	1.192	3011145	834355	136	340	6135		
223.9974	16:43	16:43	0	1.192	1833499	505008	300	750	1683	1.64(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	0	1.201	3460322	945337	136	340	6951		
223.9974	16:50	16:50	0	1.201	2161263	601345	300	750	2004	1.60(1.33-1.79)	
PCB-14											
222.0003	18:28	18:28	0	0.927	3129135	806908	136	340	5933		
223.9974	18:28	18:28	0	0.927	1936899	488798	300	750	1629	1.62(1.33-1.79)	
PCB-11											
222.0003	19:18	19:18	0	0.970	2828865	696910	136	340	5124		
223.9974	19:18	19:18	0	0.970	1769871	445361	300	750	1485	1.60(1.33-1.79)	
PCB-12											
222.0003	19:36	19:36	0	0.985	5855257	962989	136	340	7081		
223.9974	19:36	19:36	0	0.985	3632188	606383	300	750	2021	1.61(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:36	19:36	0	0.985	5855257	962989	136	340	7081		
223.9974	19:36	19:36	0	0.985	3632188	606383	300	750	2021	1.61(1.33-1.79)	
PCB-15											
222.0003	19:55	19:55	0	1.001	3493572	837160	136	340	6156		
223.9974	19:55	19:55	0	1.001	2128416	515666	300	750	1719	1.64(1.33-1.79)	
PCB-19L											
268.0016	17:08	17:08	0	0.841	1750807	486966	387	967	1258		
269.9986	17:08	17:08	0	0.841	1656061	453859	375	937	1210	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:23	20:23	0		2824621	695706	387	967	1798		
269.9986	20:23	20:23	0		2582709	630237	375	937	1681	1.09(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:38	22:38	0		7962003	1894734	756	1890	2506		
269.9986	22:38	22:38	0		7599760	1793669	542	1355	3309	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:56	22:56	0	1.013	3925465	890634	756	1890	1178		
269.9986	22:56	22:56	0	1.013	3756701	838469	542	1355	1547	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:55	0	1.189	6988299	1454248	756	1890	1924		
269.9986	26:55	26:55	0	1.189	6547372	1384396	542	1355	2554	1.07(0.88-1.20)	
PCB-19											
255.9613	17:09	17:09	0	1.001	1111991	306495	88	220	3483		
257.9584	17:09	17:09	0	1.001	1040333	288369	46	115	6269	1.07(0.88-1.20)	
PCB-18											
255.9613	18:59	18:59	0	1.108	3107998	586245	88	220	6662		
257.9584	18:59	18:59	0	1.108	2946513	553857	46	115	12040	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:59	18:59	0	1.108	3107998	586245	88	220	6662		
257.9584	18:59	18:59	0	1.108	2946513	553857	46	115	12040	1.05(0.88-1.20)	
PCB-17											
255.9613	19:26	19:26	0	1.134	1092962	270857	88	220	3078		
257.9584	19:25	19:26	-1	1.134	1029285	254392	46	115	5530	1.06(0.88-1.20)	
PCB-27											
255.9613	19:39	19:39	0	1.147	1622473	403019	88	220	4580		
257.9584	19:39	19:39	0	1.147	1557099	390966	46	115	8499	1.04(0.88-1.20)	
PCB-24											
255.9613	19:46	19:46	0	1.154	1424998	366421	88	220	4164		
257.9584	19:46	19:46	0	1.154	1389321	362384	46	115	7878	1.03(0.88-1.20)	
PCB-16											
255.9613	19:53	19:53	0	1.161	1016275	250108	88	220	2842		
257.9584	19:53	19:53	0	1.161	943553	241993	46	115	5261	1.08(0.88-1.20)	
PCB-32											
255.9613	20:23	20:23	0	1.190	1573620	387081	88	220	4399		
257.9584	20:24	20:23	1	1.191	1503288	366708	46	115	7972	1.05(0.88-1.20)	
PCB-34											
255.9613	21:39	21:39	0	1.264	3910688	929086	4015	10037	231		
257.9584	21:40	21:39	1	1.265	3706197	879140	3352	8380	262	1.06(0.88-1.20)	
PCB-23											
255.9613	21:48	21:48	0	1.273	3680892	891044	4015	10037	222		
257.9584	21:48	21:48	0	1.273	3505476	854530	3352	8380	255	1.05(0.88-1.20)	
PCB-26											
255.9613	22:08	22:08	0	1.292	7520001	1587942	4015	10037	396		
257.9584	22:08	22:08	0	1.292	7181212	1501838	3352	8380	448	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:08	22:08	0	1.292	7520001	1587942	4015	10037	396		
257.9584	22:08	22:08	0	1.292	7181212	1501838	3352	8380	448	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:21	22:21	0	0.830	4304967	954904	4015	10037	238		
257.9584	22:21	22:21	0	0.830	4139689	915161	3352	8380	273	1.04(0.88-1.20)	
PCB-31											
255.9613	22:40	22:40	0	0.842	3816402	879585	4015	10037	219		
257.9584	22:39	22:40	-1	0.841	3642267	843944	3352	8380	252	1.05(0.88-1.20)	
PCB-20											
255.9613	22:58	22:58	0	0.853	7992282	1516726	4015	10037	378		
257.9584	22:58	22:58	0	0.853	7515710	1468876	3352	8380	438	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:58	22:58	0	0.853	7992282	1516726	4015	10037	378		
257.9584	22:58	22:58	0	0.853	7515710	1468876	3352	8380	438	1.06(0.88-1.20)	
PCB-21											
255.9613	23:07	23:07	0	0.859	7217221	899663	4015	10037	224		M
257.9584	23:07	23:07	0	0.859	7096925	876439	3352	8380	261	1.02(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:07	23:07	0	0.859	7217221	899663	4015	10037	224		M
257.9584	23:07	23:07	0	0.859	7096925	876439	3352	8380	261	1.02(0.88-1.20)	M
PCB-22											
255.9613	23:35	23:35	0	0.876	4006350	930000	4015	10037	232		
257.9584	23:35	23:35	0	0.876	3868162	884541	3352	8380	264	1.04(0.88-1.20)	
PCB-36											
255.9613	25:09	25:09	0	0.934	3856401	776191	4015	10037	193		
257.9584	25:09	25:09	0	0.934	3775811	766404	3352	8380	229	1.02(0.88-1.20)	
PCB-39											
255.9613	25:30	25:30	0	0.947	4000160	851728	4015	10037	212		
257.9584	25:30	25:30	0	0.947	3752064	825891	3352	8380	246	1.07(0.88-1.20)	
PCB-38											
255.9613	26:05	26:05	0	0.969	3689347	791444	4015	10037	197		
257.9584	26:05	26:05	0	0.969	3463674	732524	3352	8380	219	1.07(0.88-1.20)	
PCB-35											
255.9613	26:32	26:32	0	0.986	3848428	780522	4015	10037	194		
257.9584	26:32	26:32	0	0.986	3713863	755635	3352	8380	225	1.04(0.88-1.20)	
PCB-37											
255.9613	26:57	26:57	0	1.001	3857630	792105	4015	10037	197		
257.9584	26:57	26:57	0	1.001	3731788	767063	3352	8380	229	1.03(0.88-1.20)	
PCB-54L											
301.9626	20:12	20:12	0	0.816	1407829	344796	213	532	1619		
303.9597	20:12	20:12	0	0.816	1717952	422285	75	187	5630	0.82(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:46	0		3472813	768008	1397	3492	550		
303.9597	24:46	24:46	0		4403417	972730	2036	5090	478	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.970	2217256	446543	1397	3492	320		
303.9597	32:41	32:41	0	0.970	2768812	555333	2036	5090	273	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:41	33:41	0	1.360	4317186	873577	1397	3492	625		
303.9597	33:41	33:41	0	1.360	5372391	1078359	2036	5090	530	0.80(0.65-0.89)	
PCB-77L											
301.9626	34:14	34:14	0	1.382	4611326	885191	1397	3492	634		
303.9597	34:14	34:14	0	1.382	5687565	1092358	2036	5090	537	0.81(0.65-0.89)	
PCB-54											
289.9224	20:13	20:13	0	1.000	904097	229578	48	120	4783		
291.9194	20:13	20:13	0	1.000	1152675	295293	128	320	2307	0.78(0.65-0.89)	
PCB-50											
289.9224	22:24	22:24	0	1.108	3692222	765285	2007	5017	381		
291.9194	22:24	22:24	0	1.108	4713836	959428	2438	6095	394	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:24	22:24	0	1.108	3692222	765285	2007	5017	381		
291.9194	22:24	22:24	0	1.108	4713836	959428	2438	6095	394	0.78(0.65-0.89)	
PCB-45											
289.9224	23:08	23:08	0	1.145	3620739	458605	2007	5017	229		M
291.9194	23:08	23:08	0	1.145	4657473	583384	2438	6095	239	0.78(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:08	23:08	0	1.145	3620739	458605	2007	5017	229		M
291.9194	23:08	23:08	0	1.145	4657473	583384	2438	6095	239	0.78(0.65-0.89)	M
PCB-46											
289.9224	23:22	23:22	0	1.156	1520169	359530	2007	5017	179		
291.9194	23:22	23:22	0	1.156	1975718	465150	2438	6095	191	0.77(0.65-0.89)	
PCB-52											
289.9224	24:47	24:47	0	1.227	2056621	459718	2007	5017	229		M
291.9194	24:47	24:47	0	1.227	2667090	601228	2438	6095	247	0.77(0.65-0.89)	M
PCB-43											
289.9224	24:56	24:56	0	1.234	4529855	596533	2007	5017	297		Ma
291.9194	24:56	24:56	0	1.234	5740441	755545	2438	6095	310	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:56	24:56	0	1.234	4529855	596533	2007	5017	297		Ma
291.9194	24:56	24:56	0	1.234	5740441	755545	2438	6095	310	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:14	25:14	0	1.249	4569817	689427	2007	5017	344		Ma
291.9194	25:13	25:14	-1	1.248	5920952	902796	2438	6095	370	0.77(0.65-0.89)	M
PCB-69 (C49)											
289.9224	25:14	25:14	0	1.249	4569817	689427	2007	5017	344		Ma
291.9194	25:13	25:14	-1	1.248	5920952	902796	2438	6095	370	0.77(0.65-0.89)	M
PCB-48											
289.9224	25:33	25:33	0	1.265	1794492	399619	2007	5017	199		
291.9194	25:33	25:33	0	1.265	2301549	514127	2438	6095	211	0.78(0.65-0.89)	
PCB-44											
289.9224	25:48	25:48	0	1.277	6229082	1107299	2007	5017	552		
291.9194	25:48	25:48	0	1.277	7784224	1373156	2438	6095	563	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:48	25:48	0	1.277	6229082	1107299	2007	5017	552		
291.9194	25:48	25:48	0	1.277	7784224	1373156	2438	6095	563	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:48	25:48	0	1.277	6229082	1107299	2007	5017	552		
291.9194	25:48	25:48	0	1.277	7784224	1373156	2438	6095	563	0.80(0.65-0.89)	
PCB-59											
289.9224	26:06	26:06	0	1.292	7492080	1075036	2007	5017	536		
291.9194	26:06	26:06	0	1.292	9379590	1347985	2438	6095	553	0.80(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:06	26:06	0	1.292	7492080	1075036	2007	5017	536		
291.9194	26:06	26:06	0	1.292	9379590	1347985	2438	6095	553	0.80(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:06	26:06	0	1.292	7492080	1075036	2007	5017	536		
291.9194	26:06	26:06	0	1.292	9379590	1347985	2438	6095	553	0.80(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	0	1.302	1818546	385105	2007	5017	192		
291.9194	26:18	26:18	0	1.302	2243807	493298	2438	6095	202	0.81(0.65-0.89)	
PCB-40											
289.9224	26:48	26:48	0	1.327	5676547	871573	2007	5017	434		M
291.9194	26:48	26:48	0	1.327	7100823	1084644	2438	6095	445	0.80(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:48	26:48	0	1.327	5676547	871573	2007	5017	434		M
291.9194	26:48	26:48	0	1.327	7100823	1084644	2438	6095	445	0.80(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:48	26:48	0	1.327	5676547	871573	2007	5017	434		M
291.9194	26:48	26:48	0	1.327	7100823	1084644	2438	6095	445	0.80(0.65-0.89)	M
PCB-64											
289.9224	27:01	27:01	0	1.337	2498718	535237	2007	5017	267		
291.9194	27:01	27:01	0	1.337	3141300	666226	2438	6095	273	0.80(0.65-0.89)	
PCB-72											
289.9224	27:51	27:51	0	0.827	2441019	536446	2007	5017	267		
291.9194	27:51	27:51	0	0.827	3072383	673111	2438	6095	276	0.79(0.65-0.89)	
PCB-68											
289.9224	28:09	28:09	0	0.836	2812968	555647	2007	5017	277		
291.9194	28:08	28:09	-1	0.835	3529074	698370	2438	6095	286	0.80(0.65-0.89)	
PCB-57											
289.9224	28:34	28:34	0	0.848	2419329	519047	2007	5017	259		
291.9194	28:34	28:34	0	0.848	3026244	660394	2438	6095	271	0.80(0.65-0.89)	
PCB-58											
289.9224	28:48	28:48	0	0.855	3034594	622116	2007	5017	310		
291.9194	28:48	28:48	0	0.855	3773572	784981	2438	6095	322	0.80(0.65-0.89)	
PCB-67											
289.9224	28:58	28:58	0	0.860	3051846	599874	2007	5017	299		
291.9194	28:58	28:58	0	0.860	3824090	757913	2438	6095	311	0.80(0.65-0.89)	

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	Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-63											
	289.9224	29:14	29:14	0	0.868	2493719	496383	2007	5017	247		
	291.9194	29:14	29:14	0	0.868	3004792	599489	2438	6095	246	0.83(0.65-0.89)	
	PCB-61											
	289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
	291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
	PCB-70 (C61)											
	289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
	291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
	PCB-74 (C61)											
	289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
	291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
	PCB-76 (C61)											
	289.9224	29:34	29:34	0	0.878	10773903	1220235	2007	5017	608		M
	291.9194	29:34	29:34	0	0.878	13481106	1531932	2438	6095	628	0.80(0.65-0.89)	M
	PCB-66											
	289.9224	29:53	29:53	0	0.888	2842004	568003	2007	5017	283		
	291.9194	29:53	29:53	0	0.888	3470218	701122	2438	6095	288	0.82(0.65-0.89)	
	PCB-55											
	289.9224	30:03	30:03	0	0.892	2921462	598936	2007	5017	298		
	291.9194	30:03	30:03	0	0.892	3562064	732174	2438	6095	300	0.82(0.65-0.89)	
	PCB-56											
	289.9224	30:33	30:33	0	0.907	2710725	557215	2007	5017	278		
	291.9194	30:33	30:33	0	0.907	3330822	675223	2438	6095	277	0.81(0.65-0.89)	
	PCB-60											
	289.9224	30:46	30:46	0	0.914	2428465	477796	2007	5017	238		
	291.9194	30:46	30:46	0	0.914	3046815	620767	2438	6095	255	0.80(0.65-0.89)	
	PCB-80											
	289.9224	31:11	31:11	0	0.926	2813888	578323	2007	5017	288		
	291.9194	31:11	31:11	0	0.926	3638062	732224	2438	6095	300	0.77(0.65-0.89)	
	PCB-79											
	289.9224	32:42	32:42	0	0.971	3021627	566596	2007	5017	282		
	291.9194	32:42	32:42	0	0.971	3839972	724001	2438	6095	297	0.79(0.65-0.89)	
	PCB-78											
	289.9224	33:15	33:15	0	0.987	2418743	471340	2007	5017	235		
	291.9194	33:15	33:15	0	0.987	3087571	598455	2438	6095	245	0.78(0.65-0.89)	
	PCB-81											
	289.9224	33:42	33:42	0	1.001	2292556	449662	2007	5017	224		
	291.9194	33:41	33:42	-1	1.000	2922187	543759	2438	6095	223	0.78(0.65-0.89)	
	PCB-77											
	289.9224	34:16	34:16	0	1.001	2357929	471577	2007	5017	235		
	291.9194	34:16	34:16	0	1.001	3088790	601620	2438	6095	247	0.76(0.65-0.89)	
	PCB-104L											
	337.9207	25:42	25:42	0	0.813	3951805	871207	149	372	5847		
	339.9178	25:42	25:42	0	0.813	2503544	552806	58	145	9531	1.58(1.32-1.78)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:41	28:41	0	1.116	1433005	295325	149	372	1982		
339.9178	28:41	28:41	0	1.116	881960	189083	58	145	3260	1.62(1.32-1.78)	
PCB-101L											
337.9207	31:37	31:37	0		3214893	664298	149	372	4458		
339.9178	31:37	31:37	0		2013475	406170	58	145	7003	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	2088474	400727	149	372	2689		
339.9178	34:17	34:17	0	1.085	1311227	257817	58	145	4445	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.146	5805680	1141595	5122	12805	223		
339.9178	36:15	36:15	0	1.146	3695521	725424	3163	7907	229	1.57(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6162016	1206740	5122	12805	236		
339.9178	36:34	36:34	0	1.157	3932748	763387	3163	7907	241	1.57(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.173	5997457	1177940	5122	12805	230		
339.9178	37:06	37:06	0	1.173	3737496	757247	3163	7907	239	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:45	37:45	0	1.194	5785442	1114112	5122	12805	218		
339.9178	37:45	37:45	0	1.194	3648458	711763	3163	7907	225	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:14	39:14	0		6068789	1166672	5122	12805	228		
339.9178	39:14	39:14	0		3862949	739609	3163	7907	234	1.57(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	5739026	1074442	5122	12805	210		
339.9178	40:50	40:50	0	1.292	3649658	677088	3163	7907	214	1.57(1.32-1.78)	
PCB-104											
325.8804	25:44	25:44	0	1.001	2002049	441777	94	235	4700		
327.8775	25:44	25:44	0	1.001	1282382	285979	23	57	12434	1.56(1.32-1.78)	
PCB-96											
325.8804	26:06	26:06	0	1.015	2147147	476785	94	235	5072		
327.8775	26:06	26:06	0	1.015	1358141	299861	23	57	13037	1.58(1.32-1.78)	
PCB-103											
325.8804	28:02	28:02	0	1.091	1722221	373034	94	235	3968		
327.8775	28:02	28:02	0	1.091	1088439	234914	23	57	10214	1.58(1.32-1.78)	
PCB-94											
325.8804	28:16	28:16	0	1.100	1440579	300531	94	235	3197		
327.8775	28:16	28:16	0	1.100	913353	193140	23	57	8397	1.58(1.32-1.78)	
PCB-95											
325.8804	28:42	28:42	0	1.117	1607755	343000	94	235	3649		
327.8775	28:42	28:42	0	1.117	1006016	206595	23	57	8982	1.60(1.32-1.78)	
PCB-93											
325.8804	28:55	28:55	0	1.125	3264013	676706	94	235	7199		
327.8775	28:55	28:55	0	1.125	2062495	415448	23	57	18063	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:55	28:55	0	1.125	3264013	676706	94	235	7199		
327.8775	28:55	28:55	0	1.125	2062495	415448	23	57	18063	1.58(1.32-1.78)	
PCB-98											
325.8804	29:04	29:04	0	1.131	3256110	409179	94	235	4353		
327.8775	29:04	29:04	0	1.131	2038639	254415	23	57	11062	1.60(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:04	29:04	0	1.131	3256110	409179	94	235	4353		
327.8775	29:04	29:04	0	1.131	2038639	254415	23	57	11062	1.60(1.32-1.78)	
PCB-88											
325.8804	29:33	29:33	0	1.150	3119379	336432	94	235	3579		
327.8775	29:33	29:33	0	1.150	1954225	216839	23	57	9428	1.60(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	0	1.150	3119379	336432	94	235	3579		
327.8775	29:33	29:33	0	1.150	1954225	216839	23	57	9428	1.60(1.32-1.78)	
PCB-84											
325.8804	29:47	29:47	0	1.159	1403716	276200	94	235	2938		
327.8775	29:47	29:47	0	1.159	893697	179012	23	57	7783	1.57(1.32-1.78)	
PCB-89											
325.8804	30:16	30:16	0	1.177	1487509	302422	94	235	3217		
327.8775	30:16	30:16	0	1.177	936577	193670	23	57	8420	1.59(1.32-1.78)	
PCB-121											
325.8804	30:41	30:41	0	1.194	2575538	528901	94	235	5627		
327.8775	30:40	30:41	-1	1.193	1568944	313817	23	57	13644	1.64(1.32-1.78)	
PCB-92											
325.8804	31:03	31:03	0	0.857	1674884	341536	94	235	3633		
327.8775	31:03	31:03	0	0.857	1049464	214906	23	57	9344	1.60(1.32-1.78)	
PCB-90											
325.8804	31:37	31:37	0	1.230	5585380	789224	94	235	8396		
327.8775	31:37	31:37	0	1.230	3541317	504402	23	57	21931	1.58(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	0	1.230	5585380	789224	94	235	8396		
327.8775	31:37	31:37	0	1.230	3541317	504402	23	57	21931	1.58(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	0	1.230	5585380	789224	94	235	8396		
327.8775	31:37	31:37	0	1.230	3541317	504402	23	57	21931	1.58(1.32-1.78)	
PCB-83											
325.8804	32:13	32:13	0	1.253	3412625	423953	94	235	4510		
327.8775	32:13	32:13	0	1.253	2114439	269337	23	57	11710	1.61(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.253	3412625	423953	94	235	4510		
327.8775	32:13	32:13	0	1.253	2114439	269337	23	57	11710	1.61(1.32-1.78)	
PCB-112											
325.8804	32:20	32:20	0	1.258	2670198	518656	94	235	5518		
327.8775	32:20	32:20	0	1.258	1689200	325711	23	57	14161	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:42	32:42	0	1.272	11933595	1243816	94	235	13232		M
327.8775	32:42	32:42	-1	1.272	7465580	789731	23	57	34336	1.60(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.300	6097296	729554	94	235	7761		
327.8775	33:25	33:25	0	1.300	3797496	450828	23	57	19601	1.61(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.300	6097296	729554	94	235	7761		
327.8775	33:25	33:25	0	1.300	3797496	450828	23	57	19601	1.61(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.300	6097296	729554	94	235	7761		
327.8775	33:25	33:25	0	1.300	3797496	450828	23	57	19601	1.61(1.32-1.78)	
PCB-110											
325.8804	33:37	33:37	0	1.308	4560996	550778	94	235	5859		
327.8775	33:37	33:37	0	1.308	2902255	349589	23	57	15200	1.57(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:37	33:37	0	1.308	4560996	550778	94	235	5859		
327.8775	33:37	33:37	0	1.308	2902255	349589	23	57	15200	1.57(1.32-1.78)	
PCB-82											
325.8804	33:55	33:55	0	1.320	1613453	302761	94	235	3221		
327.8775	33:55	33:55	0	1.320	1045938	202821	23	57	8818	1.54(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.335	2335173	456313	94	235	4854		
327.8775	34:19	34:19	0	1.335	1489923	289166	23	57	12572	1.57(1.32-1.78)	
PCB-120											
325.8804	34:47	34:47	0	1.353	2885764	550612	94	235	5858		
327.8775	34:47	34:47	0	1.353	1811468	356079	23	57	15482	1.59(1.32-1.78)	
PCB-108											
325.8804	35:55	35:55	0	1.397	6579703	1269304	3761	9402	337		
327.8775	35:55	35:55	0	1.397	4126374	791233	2810	7025	282	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:55	35:55	0	1.397	6579703	1269304	3761	9402	337		
327.8775	35:55	35:55	0	1.397	4126374	791233	2810	7025	282	1.59(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.406	3598917	640109	3761	9402	170		
327.8775	36:10	36:09	1	1.407	2298498	411041	2810	7025	146	1.57(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	3161819	607282	3761	9402	161		
327.8775	36:16	36:16	0	1.001	1872173	389063	2810	7025	138	1.69(1.32-1.78)	
PCB-106											
325.8804	36:23	36:23	0	1.004	3045625	627785	3761	9402	167		
327.8775	36:23	36:23	0	1.004	2094481	397038	2810	7025	141	1.45(1.32-1.78)	
PCB-118											
325.8804	36:36	36:36	0	1.001	3685248	687971	3761	9402	183		
327.8775	36:36	36:36	0	1.001	2330760	436085	2810	7025	155	1.58(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	2884618	554457	3761	9402	147		
327.8775	36:56	36:56	0	1.010	1824827	362406	2810	7025	129	1.58(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	0	1.001	3265805	595189	3761	9402	158		
327.8775	37:08	37:08	0	1.001	2041722	374140	2810	7025	133	1.60(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	3371548	625558	3761	9402	166		
327.8775	37:46	37:46	0	1.001	2154843	397116	2810	7025	141	1.56(1.32-1.78)	
PCB-127											
325.8804	39:15	39:15	0	1.040	3465005	627477	3761	9402	167		
327.8775	39:15	39:15	0	1.040	2177761	382258	2810	7025	136	1.59(1.32-1.78)	
PCB-126											
325.8804	40:52	40:52	0	1.001	3292748	549992	3761	9402	146		
327.8775	40:52	40:52	0	1.001	2119092	353738	2810	7025	126	1.55(1.32-1.78)	
PCB-155L											
371.8817	31:23	31:23	0	0.791	3257270	660505	70	175	9436		
373.8788	31:22	31:23	-1	0.790	2529655	513681	46	115	11167	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:27	0	0.901	1935812	371807	2444	6110	152		
373.8788	38:27	38:27	0	0.901	1481729	282805	2169	5422	130	1.31(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		3729250	717137	2444	6110	293		
373.8788	39:42	39:41	1		2865439	542376	2169	5422	250	1.30(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4385171	843891	2444	6110	345		
373.8788	41:56	41:56	0	0.982	3401457	660859	2169	5422	305	1.29(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	4672513	879045	2444	6110	360		
373.8788	42:42	42:42	0	1.076	3656608	691360	2169	5422	319	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:51	43:51	0	1.105	9033854	1211285	2444	6110	496		
373.8788	43:51	43:51	0	1.105	7015029	942510	2169	5422	435	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:51	43:51	0	1.105	9033854	1211285	2444	6110	496		
373.8788	43:51	43:51	0	1.105	7015029	942510	2169	5422	435	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	4570629	851282	2444	6110	348		
373.8788	47:05	47:05	0	1.186	3575255	676718	2169	5422	312	1.28(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	0	1.001	1551501	320228	14	35	22873		
361.8385	31:24	31:25	-1	1.000	1205695	248802	15	37	16587	1.29(1.05-1.43)	
PCB-152											
359.8415	31:36	31:36	0	1.007	1531535	309585	14	35	22113		
361.8385	31:36	31:36	0	1.007	1221330	244311	15	37	16287	1.25(1.05-1.43)	
PCB-150											
359.8415	31:46	31:46	0	1.012	1647132	340356	14	35	24311		
361.8385	31:46	31:46	0	1.012	1285993	261802	15	37	17453	1.28(1.05-1.43)	
PCB-136											
359.8415	32:08	32:08	0	1.024	1607291	324088	14	35	23149		
361.8385	32:08	32:08	0	1.024	1251510	253361	15	37	16891	1.28(1.05-1.43)	
PCB-145											
359.8415	32:25	32:25	0	1.033	1563820	302118	14	35	21580		
361.8385	32:25	32:25	0	1.033	1210113	244554	15	37	16304	1.29(1.05-1.43)	
PCB-148											
359.8415	33:57	33:57	0	1.082	1231487	249307	14	35	17808		
361.8385	33:57	33:57	0	1.082	944768	189380	15	37	12625	1.30(1.05-1.43)	
PCB-135											
359.8415	34:32	34:32	0	1.100	2316873	263391	14	35	18814		Ma
361.8385	34:32	34:32	0	1.100	1875309	209193	15	37	13946	1.24(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:32	34:32	0	1.100	2316873	263391	14	35	18814		Ma
361.8385	34:32	34:32	0	1.100	1875309	209193	15	37	13946	1.24(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	0	1.108	1330712	264146	14	35	18868		
361.8385	34:47	34:47	0	1.108	1040783	204861	15	37	13657	1.28(1.05-1.43)	
PCB-144											
359.8415	35:06	35:06	0	1.118	1246158	243699	14	35	17407		
361.8385	35:06	35:06	0	1.118	986173	193270	15	37	12885	1.26(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	3933253	778924	1008	2520	773		
361.8385	35:27	35:27	0	1.130	3133867	619812	785	1962	790	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	3933253	778924	1008	2520	773		
361.8385	35:27	35:27	0	1.130	3133867	619812	785	1962	790	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:45	35:45	0	1.139	3601502	377426	1008	2520	374		
361.8385	35:45	35:45	0	1.139	2838994	290659	785	1962	370	1.27(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	0	1.139	3601502	377426	1008	2520	374		
361.8385	35:45	35:45	0	1.139	2838994	290659	785	1962	370	1.27(1.05-1.43)	
PCB-139											
359.8415	36:04	36:04	0	1.149	3933590	687129	1008	2520	682		
361.8385	36:04	36:04	0	1.149	3105104	548671	785	1962	699	1.27(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:04	36:04	0	1.149	3933590	687129	1008	2520	682		
361.8385	36:04	36:04	0	1.149	3105104	548671	785	1962	699	1.27(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	0	1.155	1687175	334025	1008	2520	331		M
361.8385	36:15	36:15	0	1.155	1331753	269140	785	1962	343	1.27(1.05-1.43)	M
PCB-142											
359.8415	36:24	36:24	0	1.160	1733270	337603	1008	2520	335		M
361.8385	36:24	36:24	0	1.160	1381885	271204	785	1962	345	1.25(1.05-1.43)	M
PCB-132											
359.8415	36:43	36:43	0	1.170	1652199	321485	1008	2520	319		
361.8385	36:43	36:43	0	1.170	1326992	253704	785	1962	323	1.25(1.05-1.43)	
PCB-133											
359.8415	37:14	37:14	0	1.186	1821701	339181	1008	2520	336		
361.8385	37:14	37:14	0	1.186	1424291	267937	785	1962	341	1.28(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	0	0.881	2363040	453975	1008	2520	450		
361.8385	37:38	37:37	1	0.881	1823861	353139	785	1962	450	1.30(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	0	0.887	2148749	415011	1008	2520	412		
361.8385	37:52	37:52	-1	0.887	1696656	333062	785	1962	424	1.27(1.05-1.43)	
PCB-161											
359.8415	38:00	38:00	0	0.890	2621108	512234	1008	2520	508		
361.8385	38:00	38:00	0	0.890	2044964	396454	785	1962	505	1.28(1.05-1.43)	
PCB-153											
359.8415	38:30	38:30	0	0.901	4983489	714786	1008	2520	709		
361.8385	38:30	38:30	1	0.902	3961079	562837	785	1962	717	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:30	38:30	0	0.901	4983489	714786	1008	2520	709		
361.8385	38:30	38:30	1	0.902	3961079	562837	785	1962	717	1.26(1.05-1.43)	
PCB-141											
359.8415	38:41	38:41	0	0.906	1947775	364426	1008	2520	362		
361.8385	38:41	38:41	0	0.906	1513578	284802	785	1962	363	1.29(1.05-1.43)	
PCB-130											
359.8415	39:05	39:05	0	0.915	1601211	302566	1008	2520	300		
361.8385	39:05	39:05	0	0.915	1237434	240551	785	1962	306	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:18	39:18	0	0.920	1828119	355133	1008	2520	352		
361.8385	39:18	39:18	0	0.920	1470337	279527	785	1962	356	1.24(1.05-1.43)	
PCB-164											
359.8415	39:26	39:26	0	0.923	2355056	457987	1008	2520	454		
361.8385	39:25	39:26	-1	0.923	1845124	352711	785	1962	449	1.28(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	0	0.930	8427795	930274	1008	2520	923		M
361.8385	39:44	39:44	0	0.930	6682218	748596	785	1962	954	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:07	40:07	0	0.939	2955869	553491	1008	2520	549		
361.8385	40:07	40:07	0	0.939	2363652	439507	785	1962	560	1.25(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	4466821	672295	1008	2520	667		
361.8385	40:57	40:57	0	0.959	3657844	530567	785	1962	676	1.22(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	4466821	672295	1008	2520	667		
361.8385	40:57	40:57	0	0.959	3657844	530567	785	1962	676	1.22(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	3137876	586838	1008	2520	582		
361.8385	41:58	41:58	0	0.983	2440665	455213	785	1962	580	1.29(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	2793137	511299	1008	2520	507		
361.8385	42:15	42:15	0	0.990	2253222	402492	785	1962	513	1.24(1.05-1.43)	
PCB-167											
359.8415	42:44	42:44	0	1.001	2586477	482486	1008	2520	479		
361.8385	42:44	42:44	0	1.001	2021689	384259	785	1962	490	1.28(1.05-1.43)	
PCB-156											
359.8415	43:53	43:53	0	1.001	4958599	660795	1008	2520	656		
361.8385	43:53	43:53	0	1.001	3979807	528989	785	1962	674	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:53	43:53	0	1.001	4958599	660795	1008	2520	656		
361.8385	43:53	43:53	0	1.001	3979807	528989	785	1962	674	1.25(1.05-1.43)	
PCB-169											
359.8415	47:06	47:06	0	1.001	2731112	460895	1008	2520	457		
361.8385	47:06	47:06	0	1.001	2127829	367226	785	1962	468	1.28(1.05-1.43)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:07	37:07	0	0.820	3390997	647639	106	265	6110		
407.8398	37:06	37:07	-1	0.820	3196582	614748	52	130	11822	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:10	0	0.888	1268374	239712	106	265	2261		
407.8398	40:09	40:10	-1	0.887	1185767	225896	52	130	4344	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:15	0		2568508	474635	106	265	4478		
407.8398	45:15	45:15	0		2409050	448677	52	130	8628	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	2144599	393977	106	265	3717		
407.8398	46:30	46:30	0	1.028	2011990	367812	52	130	7073	1.07(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.096	5177539	911013	1628	4070	560		
407.8398	49:36	49:37	-1	1.096	4893238	882502	1626	4065	543	1.06(0.89-1.21)	
PCB-188											
393.8025	37:08	37:08	0	1.001	1906918	363165	2	5	181583		
395.7995	37:08	37:08	0	1.001	1799722	344515	9	22	38279	1.06(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	1909337	379833	2	5	189917		
395.7995	37:28	37:28	0	1.010	1824607	355678	9	22	39520	1.05(0.89-1.21)	
PCB-184											
393.8025	38:00	38:00	0	1.024	1892683	358370	2	5	179185		
395.7995	38:00	38:00	0	1.024	1821815	348626	9	22	38736	1.04(0.89-1.21)	
PCB-176											
393.8025	38:21	38:21	0	1.033	1717852	328373	2	5	164187		
395.7995	38:21	38:21	0	1.033	1619606	309049	9	22	34339	1.06(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.045	2090399	402372	2	5	201186		
395.7995	38:48	38:48	0	1.045	1961117	370019	9	22	41113	1.07(0.89-1.21)	
PCB-178											
393.8025	40:11	40:11	0	1.083	1251827	247537	2	5	123769		
395.7995	40:11	40:11	-1	1.083	1188658	225408	9	22	25045	1.05(0.89-1.21)	
PCB-175											
393.8025	40:49	40:49	0	1.100	1313506	246290	2	5	123145		
395.7995	40:48	40:49	-1	1.100	1256385	243837	9	22	27093	1.05(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	1539415	294124	2	5	147062		
395.7995	41:05	41:05	0	1.107	1483819	280053	9	22	31117	1.04(0.89-1.21)	
PCB-182											
393.8025	41:18	41:18	0	1.113	1357585	259715	2	5	129858		
395.7995	41:18	41:18	0	1.113	1289451	251200	9	22	27911	1.05(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	2628001	274235	2	5	137118		Ma
395.7995	41:42	41:42	0	1.124	2486532	260035	9	22	28893	1.06(0.89-1.21)	M



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											Ma
393.8025	41:42	41:42	0	1.124	2628001	274235	2	5	137118		M
395.7995	41:42	41:42	0	1.124	2486532	260035	9	22	28893	1.06(0.89-1.21)	
PCB-174											
393.8025	41:56	41:56	0	1.130	1382890	268892	2	5	134446		
395.7995	41:56	41:56	0	1.130	1298958	249998	9	22	27778	1.06(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	1317062	238481	2	5	119241		
395.7995	42:22	42:22	0	1.142	1316514	232510	9	22	25834	1.00(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	1309193	249662	2	5	124831		
395.7995	42:45	42:45	0	1.152	1211833	231137	9	22	25682	1.08(0.89-1.21)	
PCB-171											
393.8025	42:59	42:59	0	1.158	2467648	409790	2	5	204895		
395.7995	42:59	42:59	0	1.158	2337021	379542	9	22	42171	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:59	42:59	0	1.158	2467648	409790	2	5	204895		
395.7995	42:59	42:59	0	1.158	2337021	379542	9	22	42171	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	1200782	233906	2	5	116953		
395.7995	44:37	44:37	0	0.899	1147181	214947	9	22	23883	1.05(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	1936935	362962	2	5	181481		
395.7995	44:54	44:54	0	0.905	1821207	344791	9	22	38310	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	3302667	423702	2	5	211851		
395.7995	45:14	45:14	-1	0.911	3077873	392513	9	22	43613	1.07(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	3302667	423702	2	5	211851		
395.7995	45:14	45:14	-1	0.911	3077873	392513	9	22	43613	1.07(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.919	1843223	351659	2	5	175830		
395.7995	45:37	45:37	0	0.919	1747325	324624	9	22	36069	1.05(0.89-1.21)	
PCB-170											
393.8025	46:32	46:32	0	0.938	1278454	228946	2	5	114473		
395.7995	46:32	46:32	0	0.938	1225630	220603	9	22	24511	1.04(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	1842203	338530	2	5	169265		
395.7995	47:02	47:02	0	0.948	1739942	319162	9	22	35462	1.06(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.000	2516603	449894	787	1967	572		
395.7995	49:38	49:38	0	1.000	2412128	445339	465	1162	958	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:28	42:28	0	0.821	2255092	422922	39	97	10844		
441.8008	42:29	42:28	1	0.821	2499196	471635	38	95	12411	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:43	51:43	0		3362707	620941	250	625	2484		
441.8008	51:43	51:43	0		3648392	674097	251	627	2686	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:11	0	1.009	3962585	704738	250	625	2819		
441.8008	52:11	52:11	0	1.009	4374908	776279	251	627	3093	0.91(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	1251662	241380	51	127	4733		
429.7606	42:29	42:29	0	1.001	1402589	268049	72	180	3723	0.89(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	0	1.022	1147960	212934	51	127	4175		
429.7606	43:25	43:25	0	1.022	1271154	239345	72	180	3324	0.90(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	1221595	229432	51	127	4499		
429.7606	44:05	44:05	0	1.038	1340945	251734	72	180	3496	0.91(0.76-1.02)	
PCB-197											
427.7635	44:19	44:19	0	1.044	1331905	249833	51	127	4899		
429.7606	44:19	44:19	0	1.044	1459028	274266	72	180	3809	0.91(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	1181192	228255	51	127	4476		
429.7606	44:25	44:25	0	1.046	1280025	253295	72	180	3518	0.92(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.112	1983914	250914	51	127	4920		
429.7606	47:11	47:12	-1	1.111	2213778	275523	72	180	3827	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	1983914	250914	51	127	4920		
429.7606	47:11	47:12	-1	1.111	2213778	275523	72	180	3827	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.917	905436	170211	51	127	3337		
429.7606	47:53	47:53	0	0.917	987246	184071	72	180	2557	0.92(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	1102302	203152	51	127	3983		
429.7606	48:05	48:05	0	0.921	1187278	216676	72	180	3009	0.93(0.76-1.02)	
PCB-195											
427.7635	49:23	49:23	0	0.946	1635171	296266	472	1180	628		
429.7606	49:23	49:23	0	0.946	1796776	331167	438	1095	756	0.91(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	1877668	346067	472	1180	733		
429.7606	51:44	51:44	0	0.991	2089752	377920	438	1095	863	0.90(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	0	1.000	2116332	381152	472	1180	808		
429.7606	52:13	52:13	0	1.000	2361758	425228	438	1095	971	0.90(0.76-1.02)	
PCB-208L											
473.7648	49:09	49:09	0	0.950	2989638	548455	593	1482	925		
475.7619	49:09	49:09	0	0.950	3691137	673270	833	2082	808	0.81(0.65-0.89)	

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Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:57	53:57	0	1.043	2206564	390041	593	1482	658		
475.7619	53:57	53:57	0	1.043	2697378	485236	833	2082	583	0.82(0.65-0.89)	
PCB-208											
461.7246	49:10	49:10	0	1.001	1674736	306423	503	1257	609		
463.7216	49:10	49:10	0	1.001	2099856	394691	982	2455	402	0.80(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	1731554	322149	503	1257	640		
463.7216	50:05	50:05	0	1.019	2146967	396465	982	2455	404	0.81(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	1363275	241413	503	1257	480		M
463.7216	53:58	53:58	0	1.000	1761287	313621	982	2455	319	0.77(0.65-0.89)	M
PCB-209L											
507.7258	55:34	55:34	0	1.074	1960174	329111	112	280	2938		
509.7229	55:34	55:34	0	1.074	2763117	486124	68	170	7149	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:36	55:36	0	1.000	1086029	181678	83	207	2189		
497.6826	55:36	55:36	0	1.000	1517711	260666	31	77	8409	0.72(0.59-0.79)	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

61CV1668CS3\_00019

Amount Added: 20.00

Units: uL

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

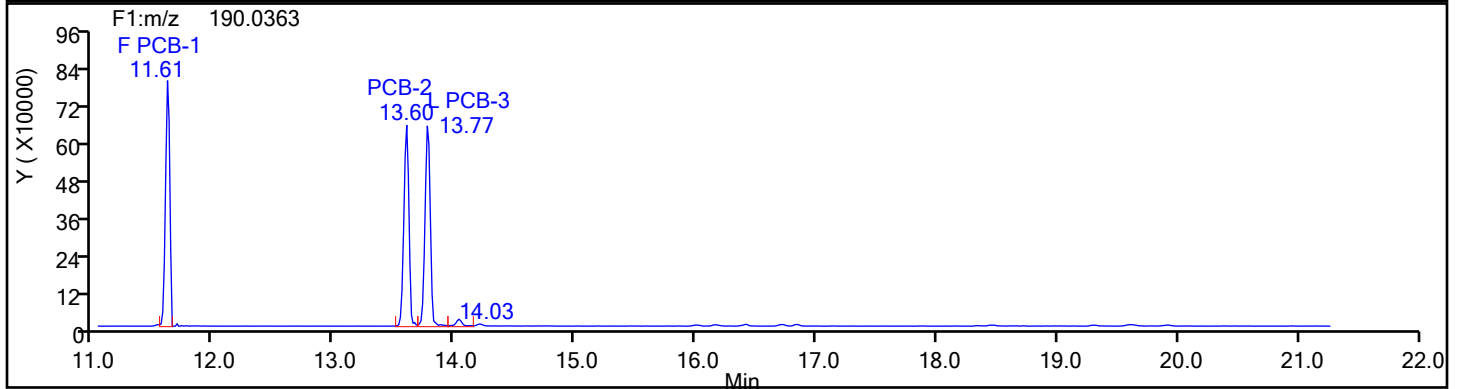
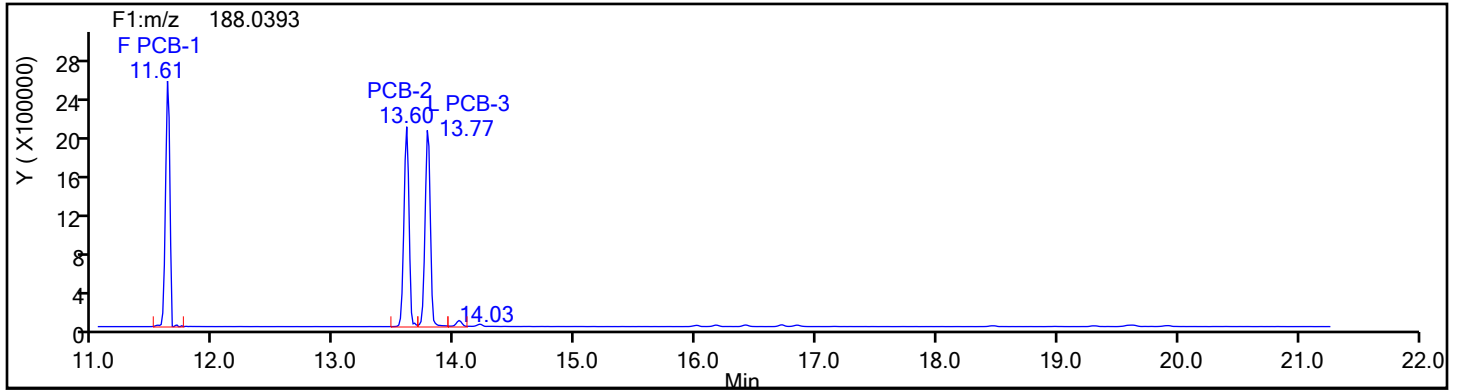
Worklist#: 87130

Sample Line#: 4

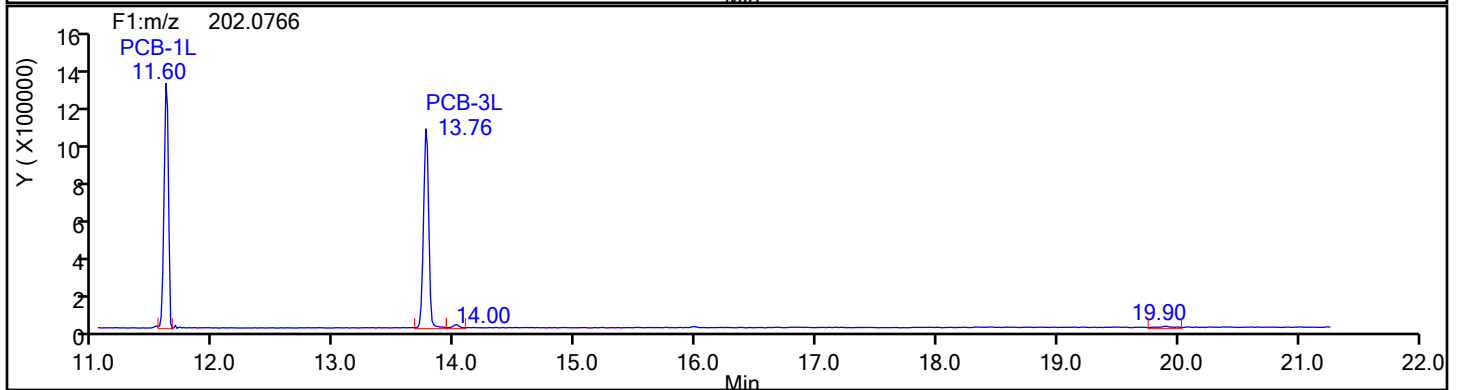
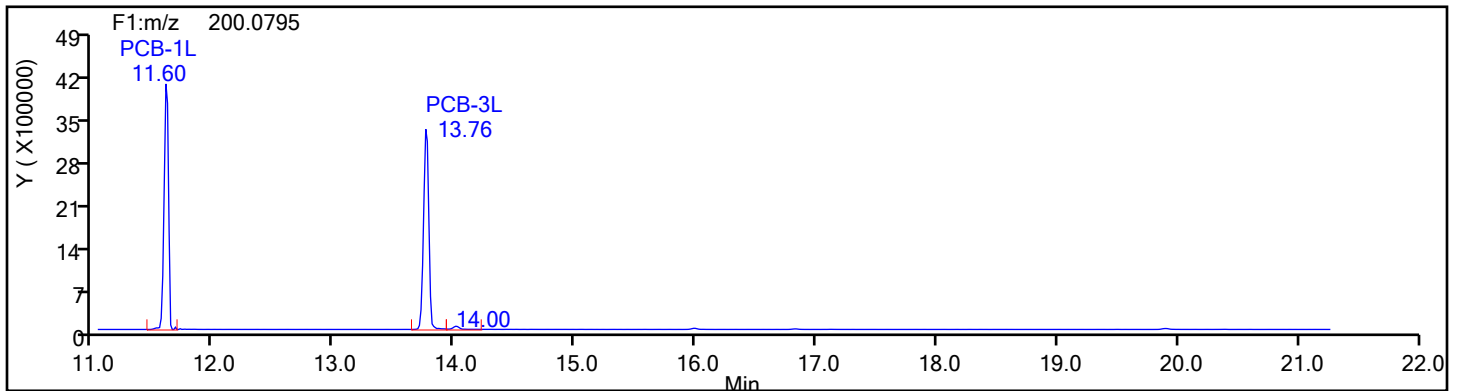
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

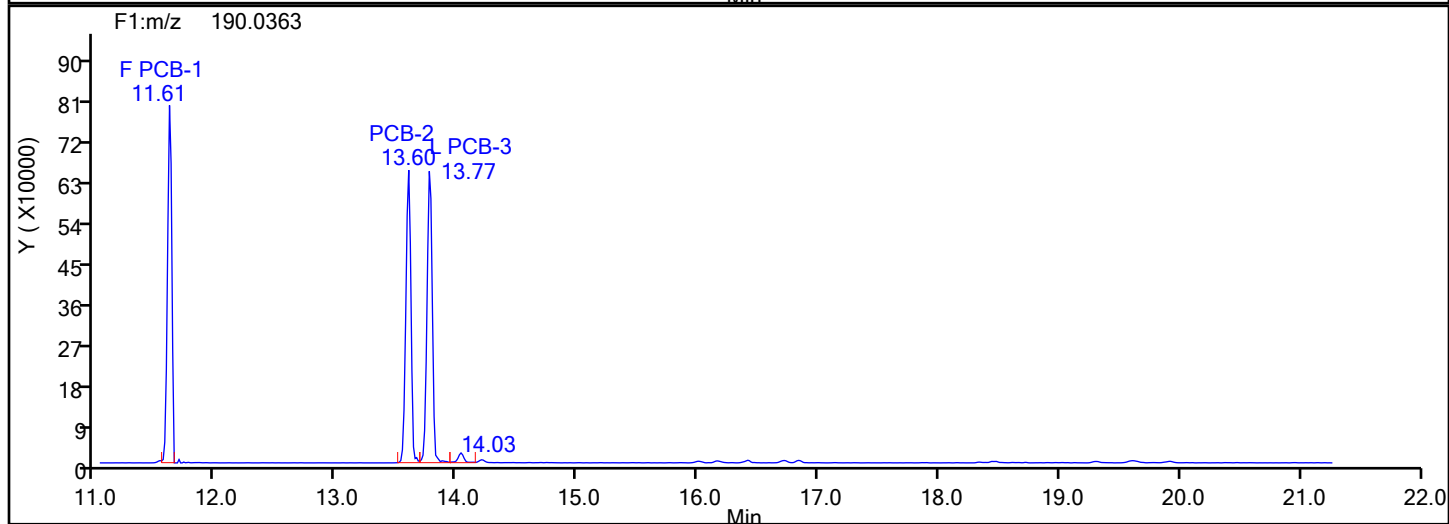
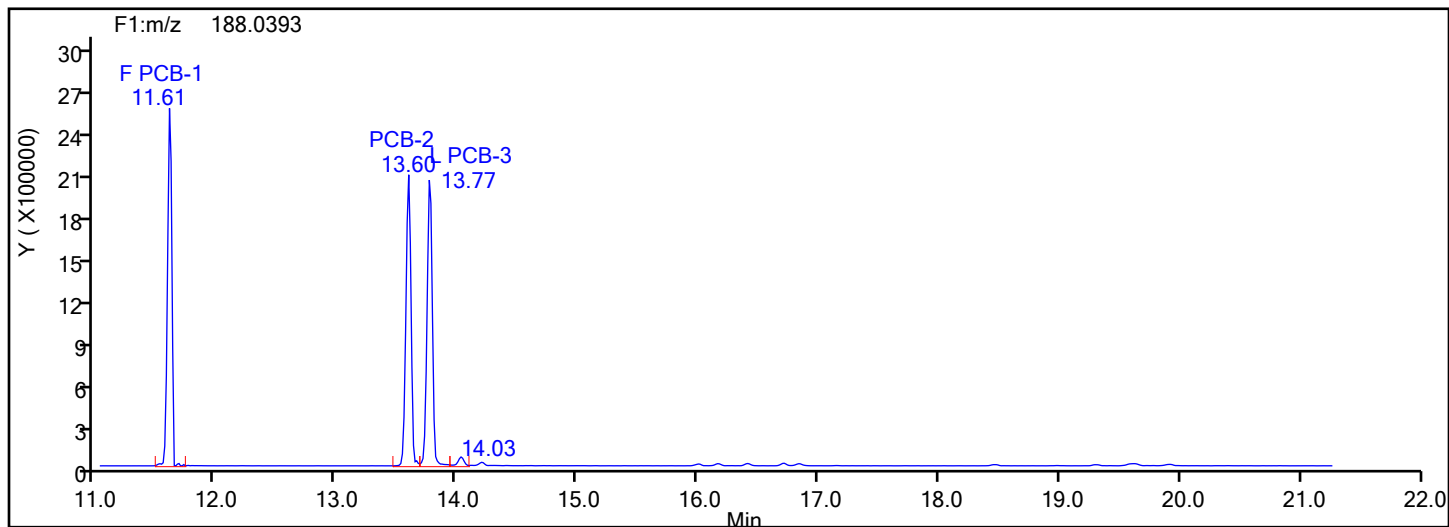
Worklist#: 87130

Sample Line#: 4

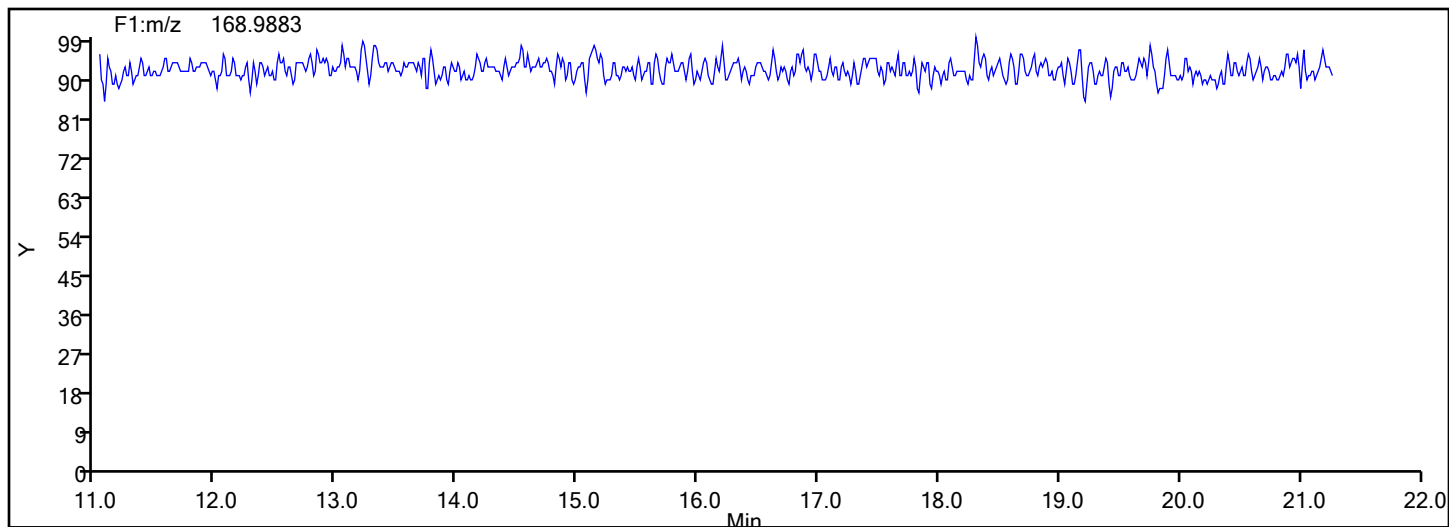
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

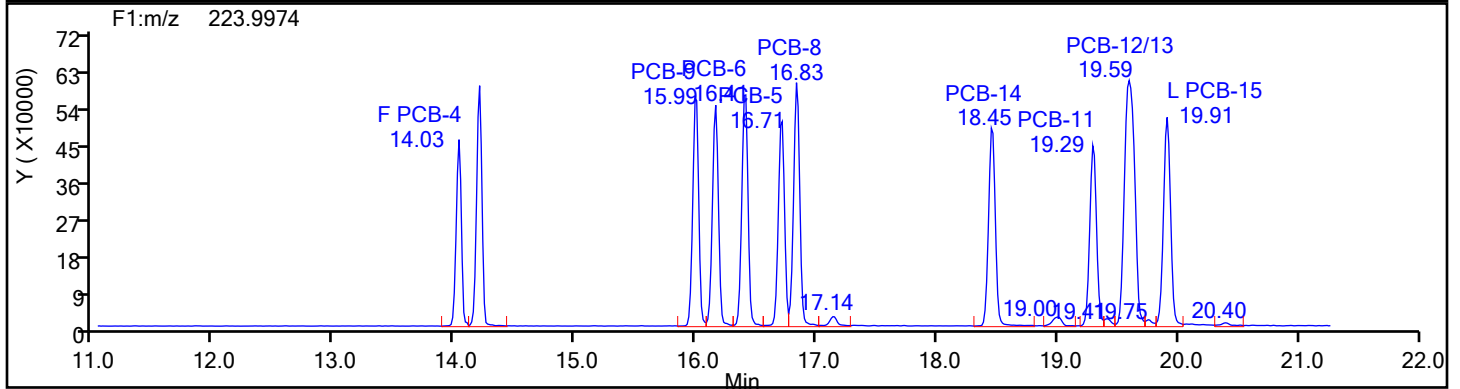
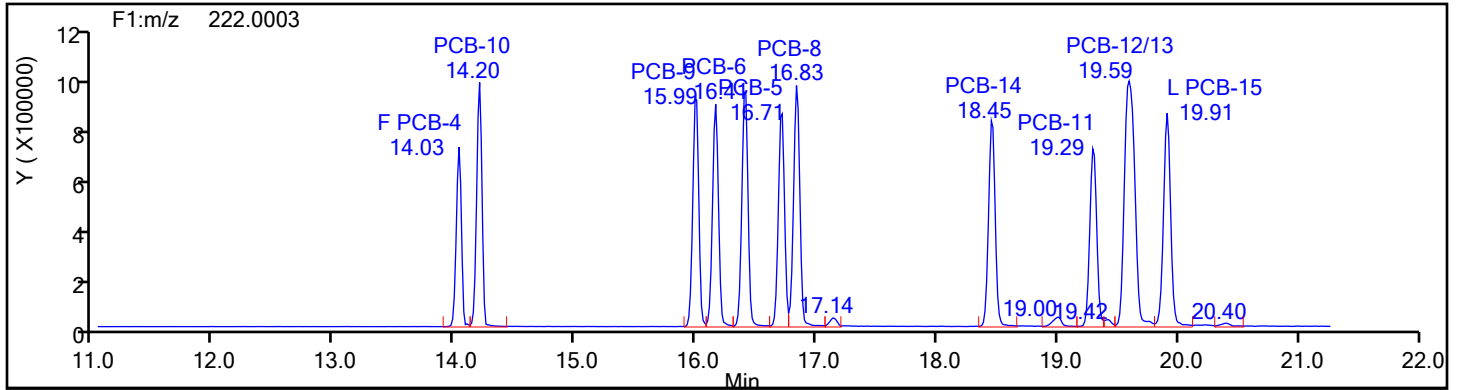
Worklist#: 87130

Sample Line#: 4

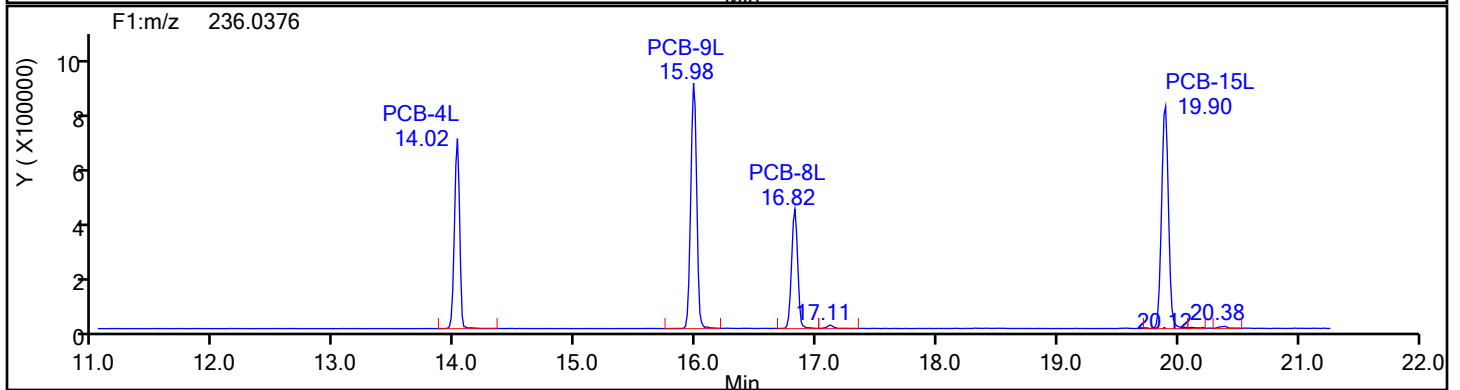
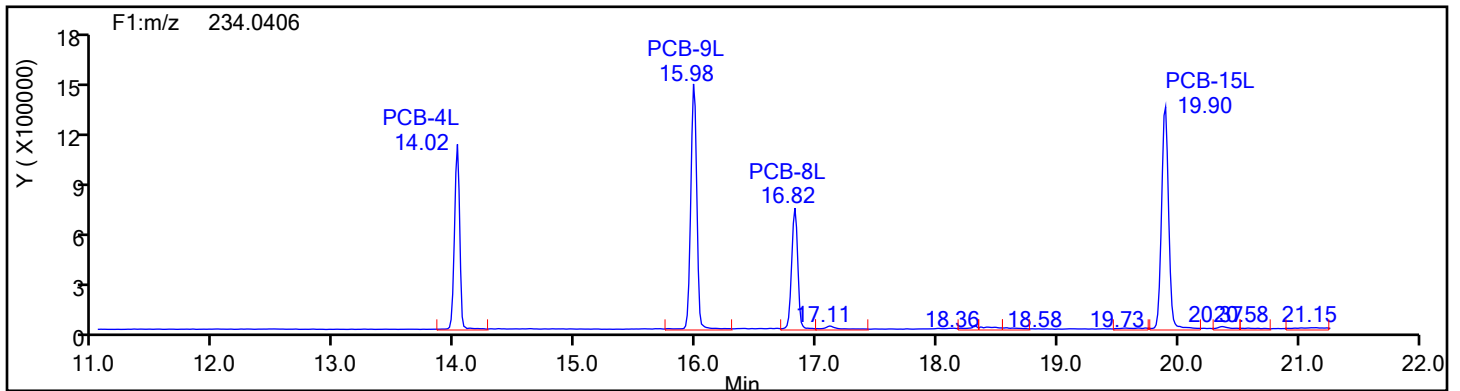
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1

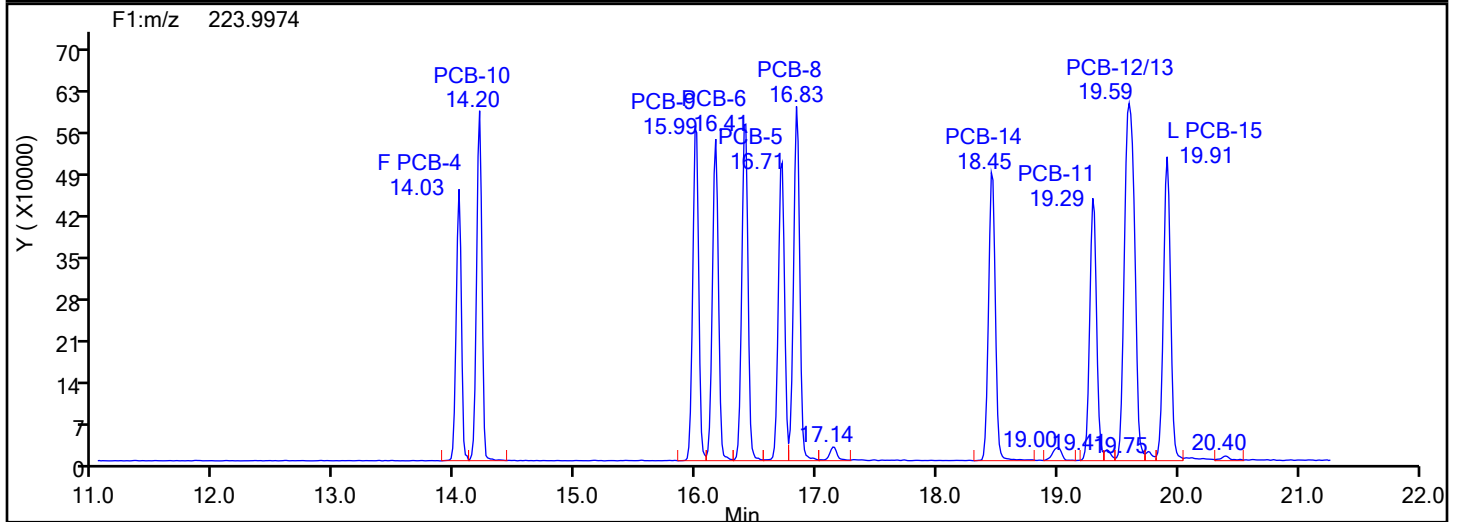
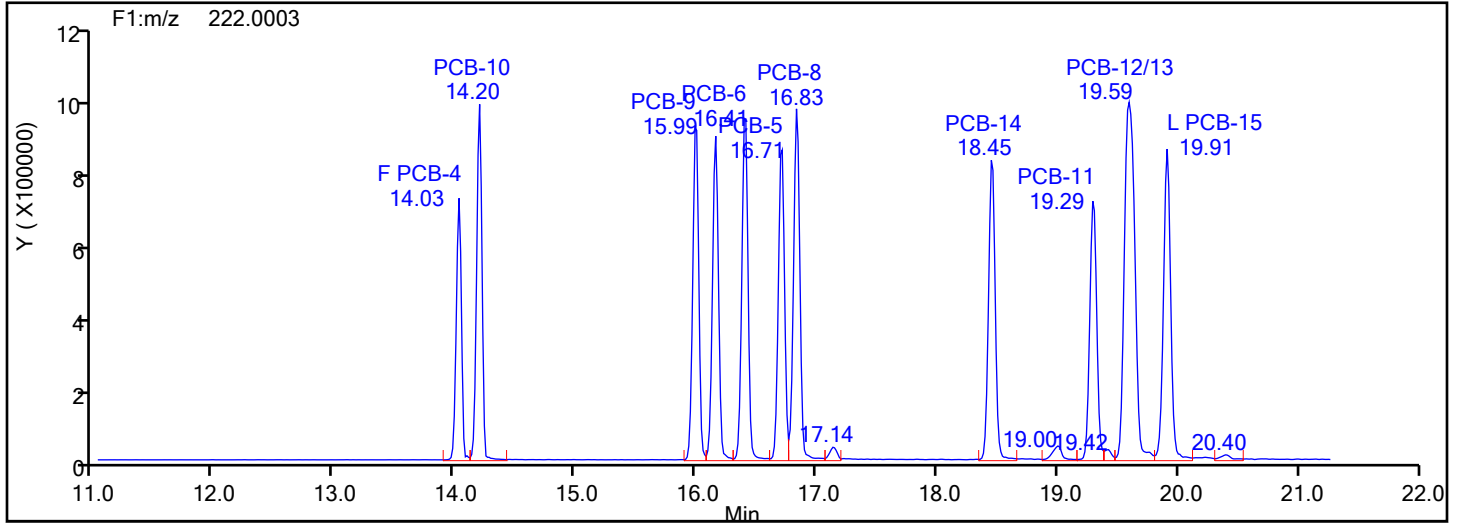


DiPCB F1 Standards

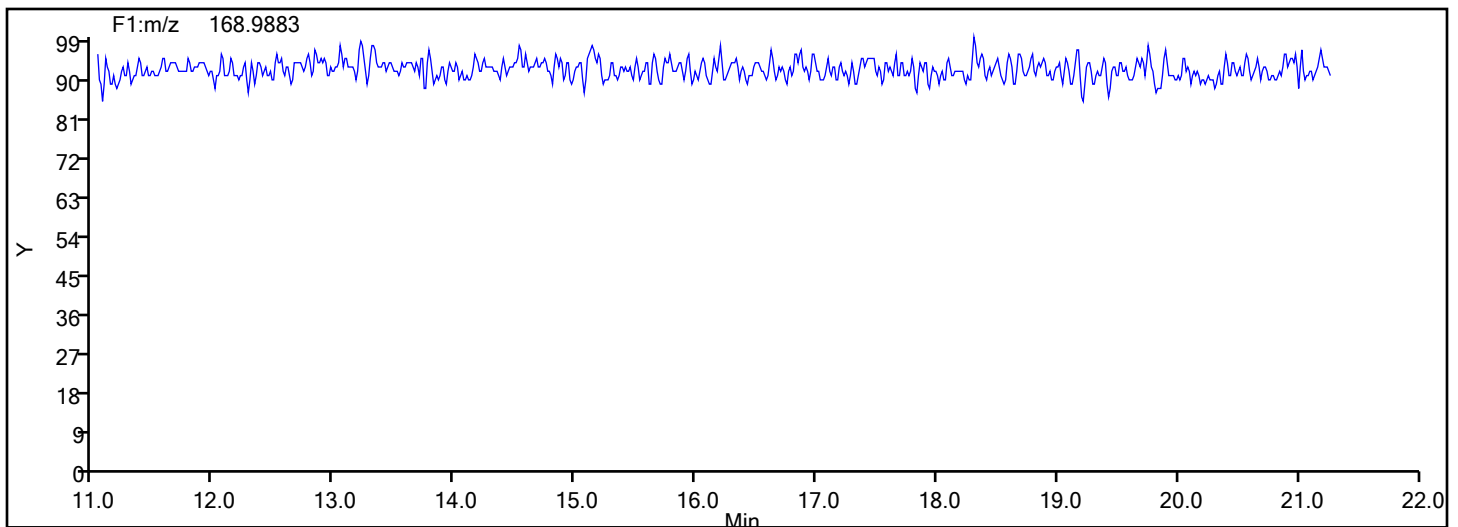


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DiPCB F1



## DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

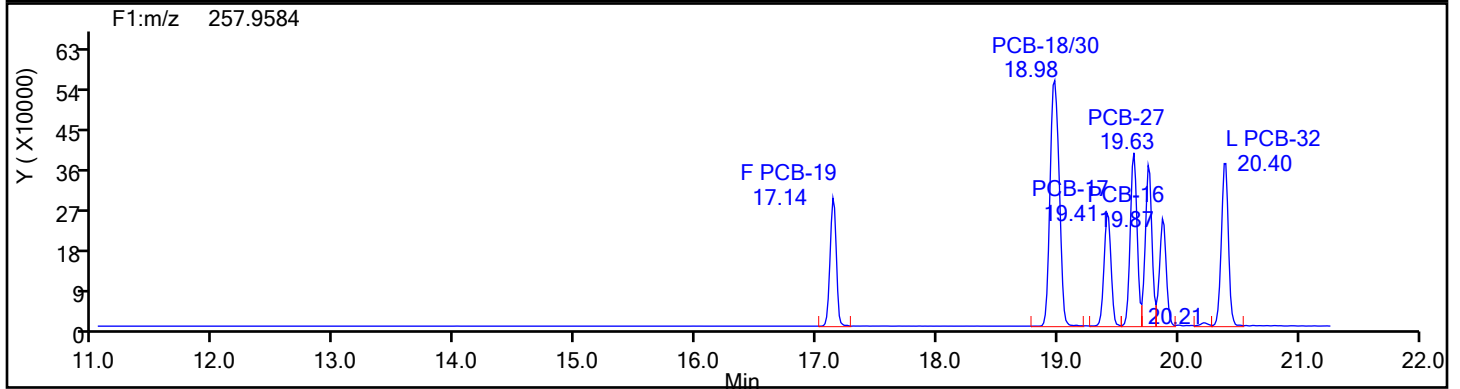
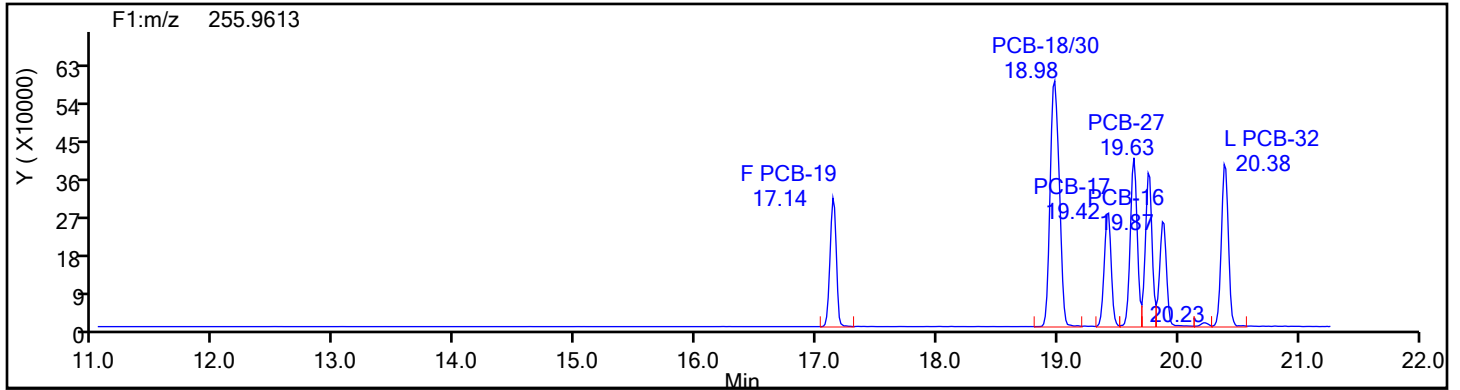
Worklist#: 87130

Sample Line#: 4

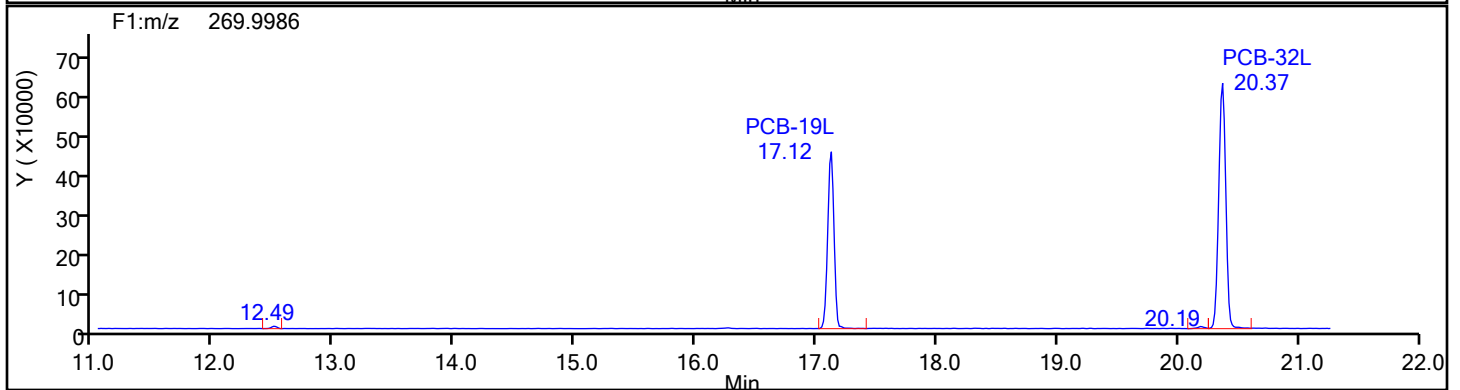
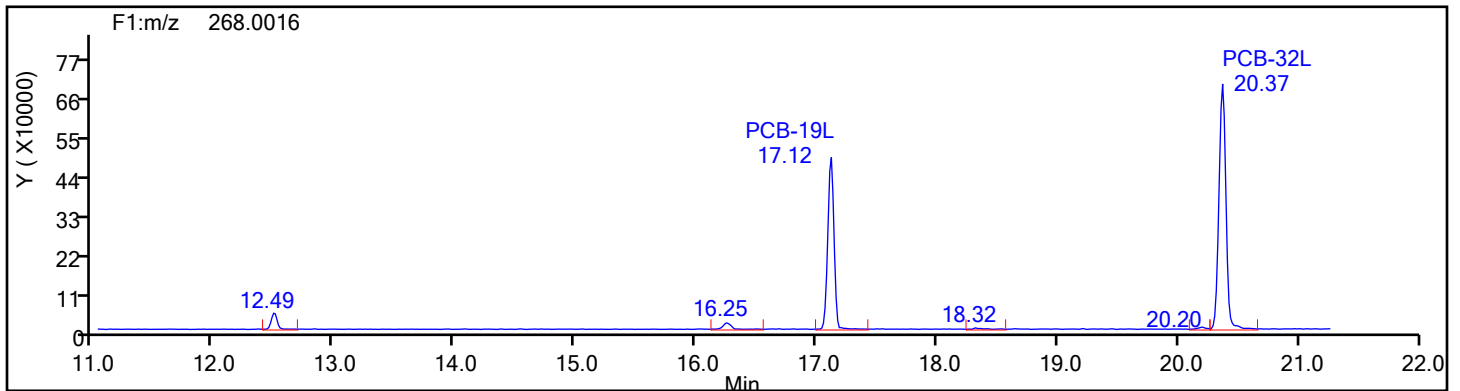
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

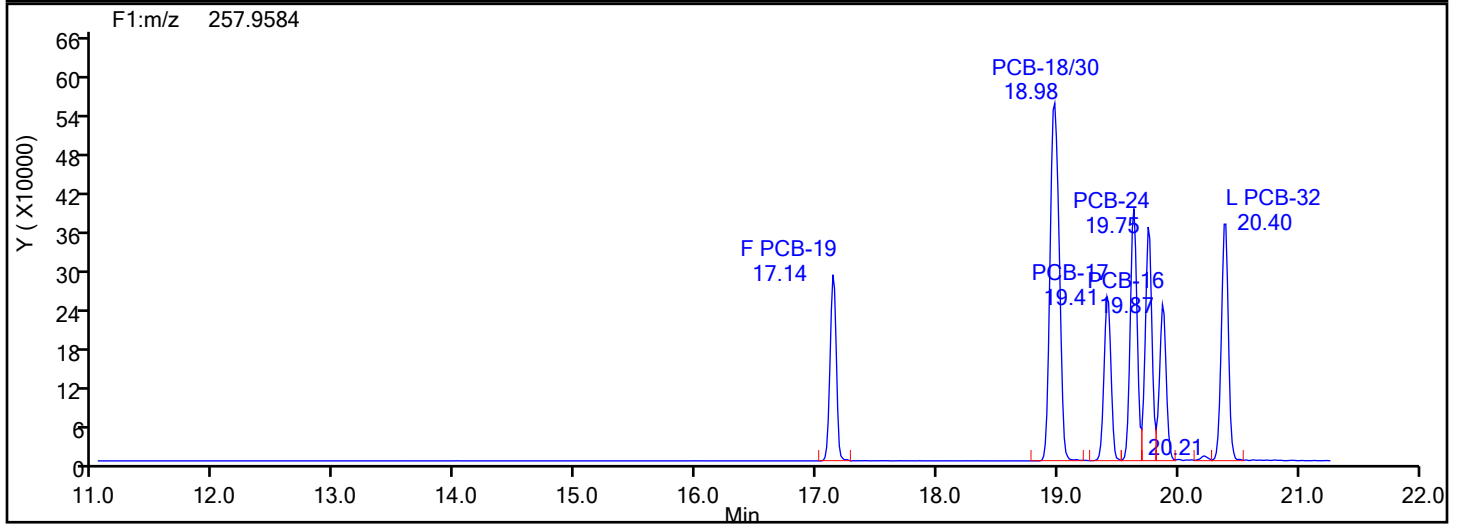
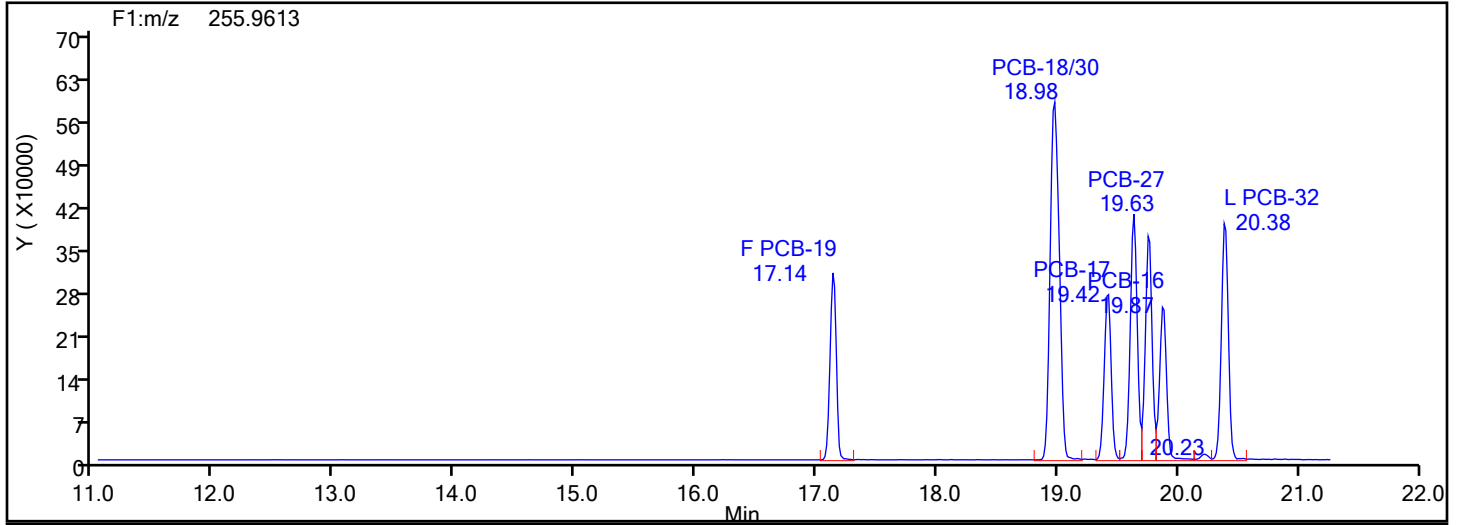
Worklist#: 87130

Sample Line#: 4

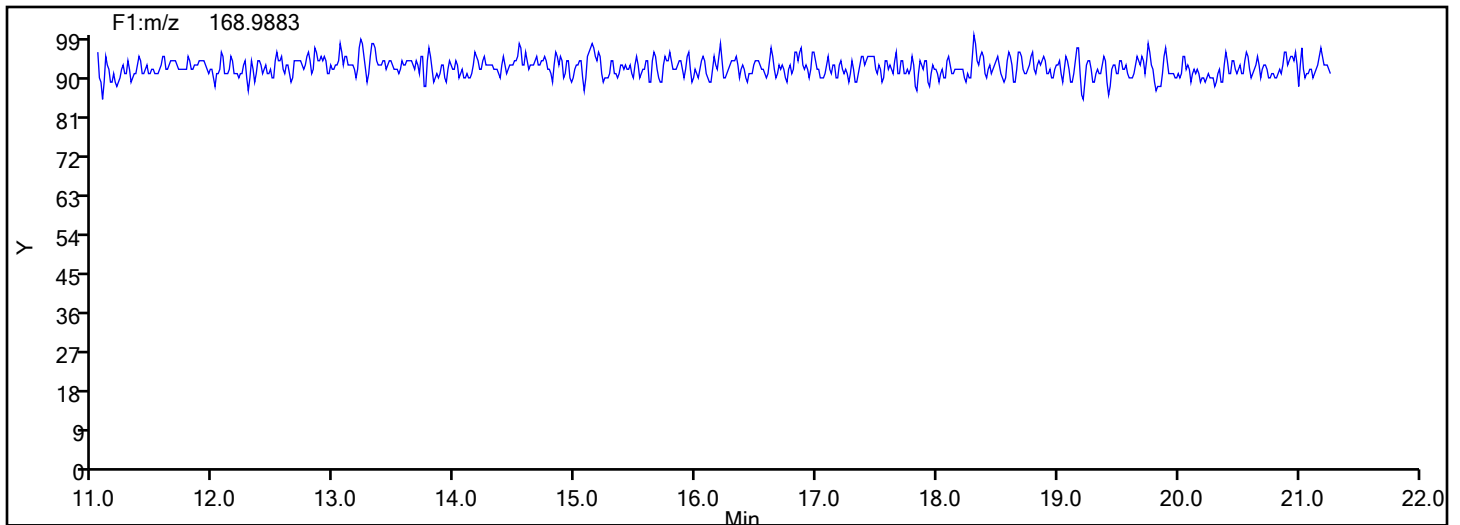
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

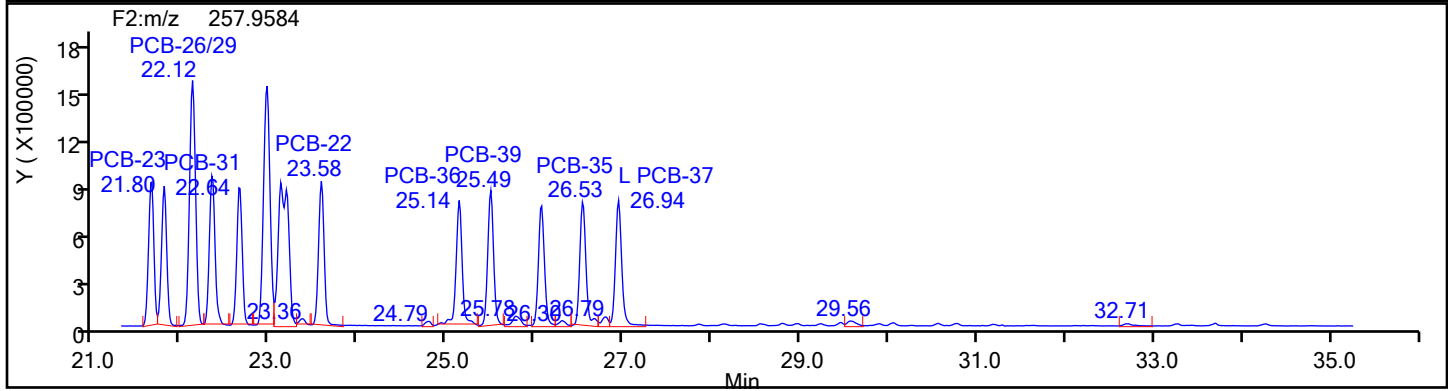
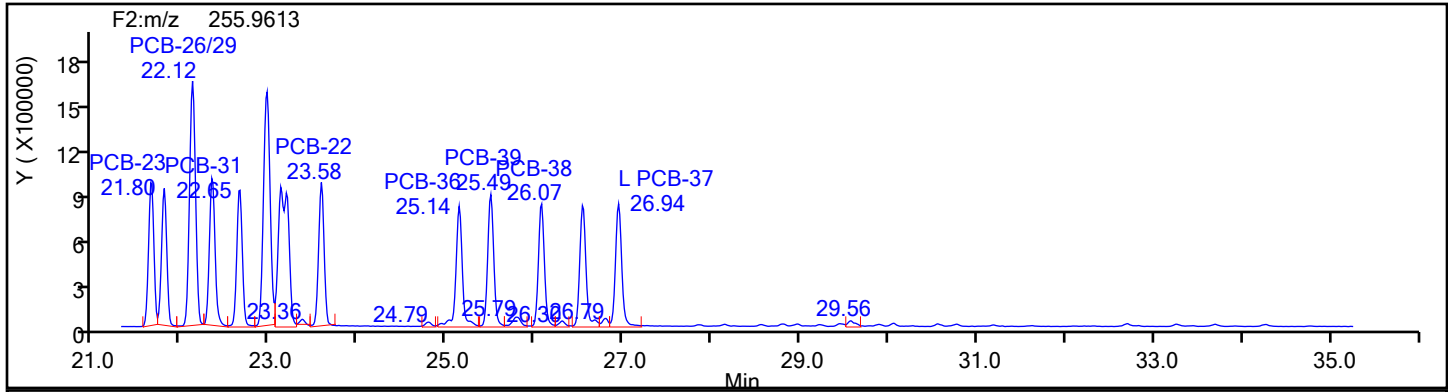


TriPCB F1 Lock Mass

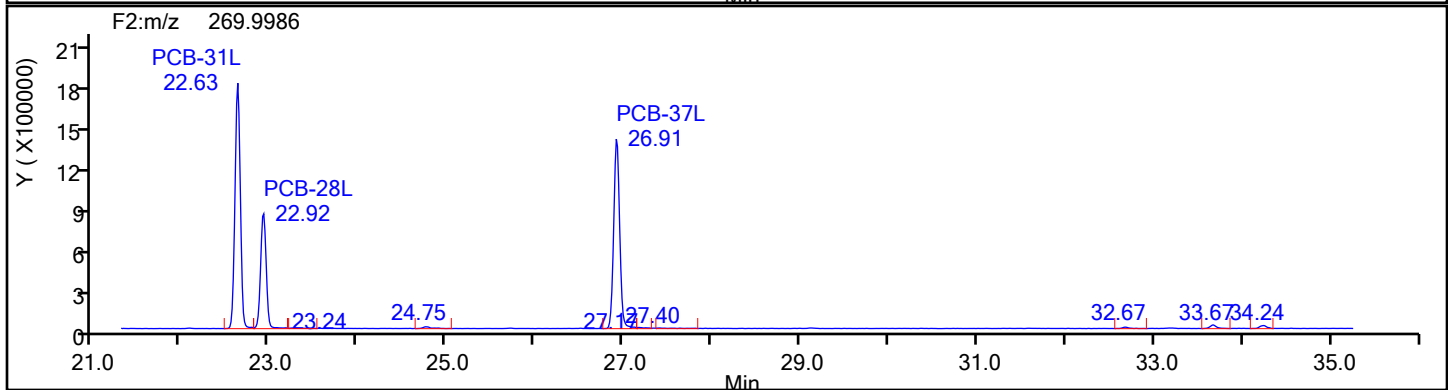
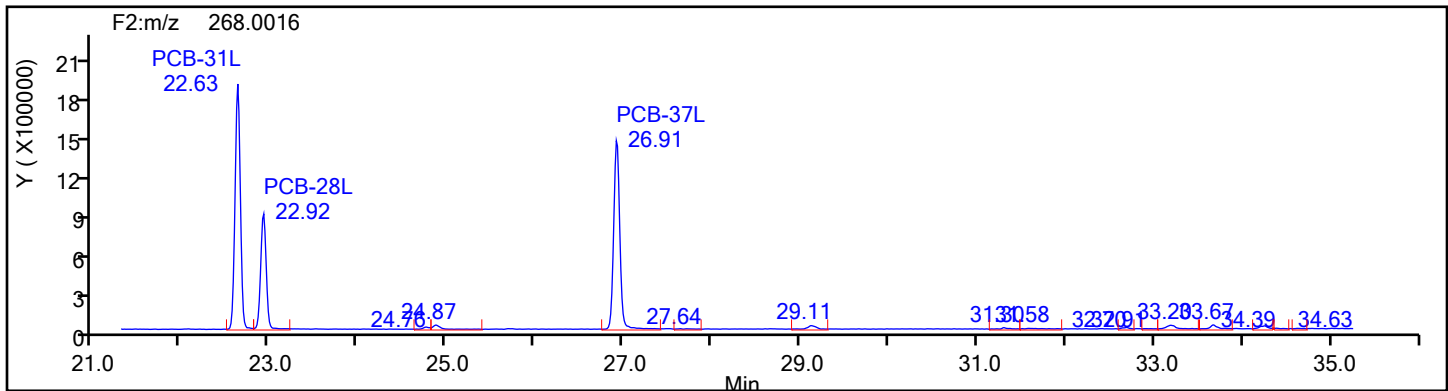


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F2



## TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

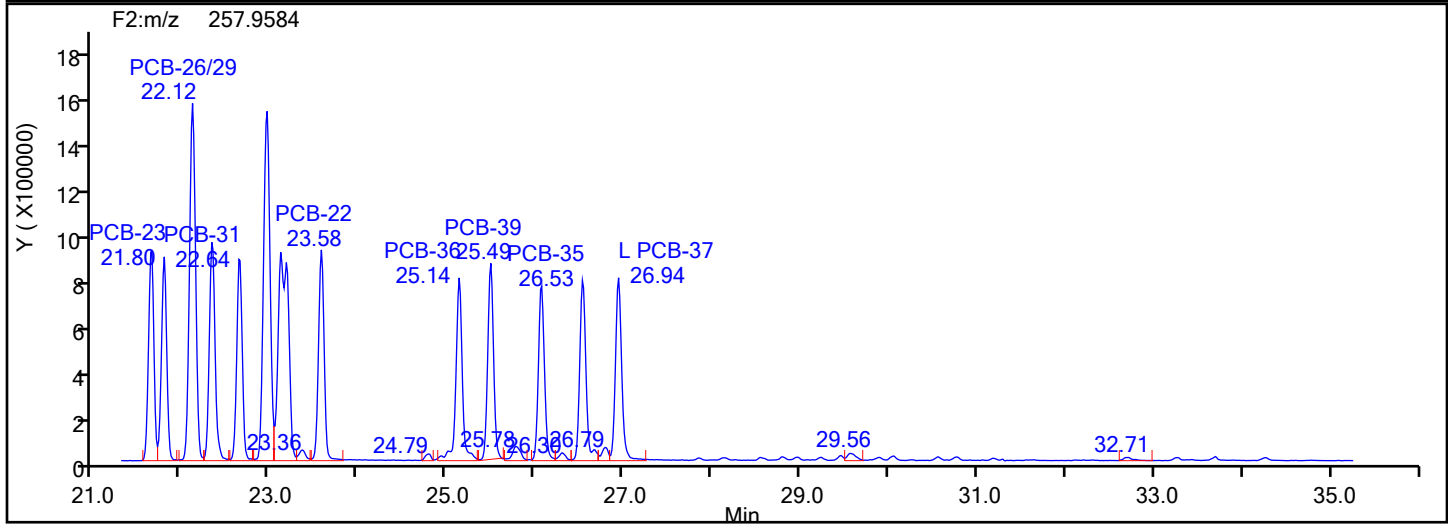
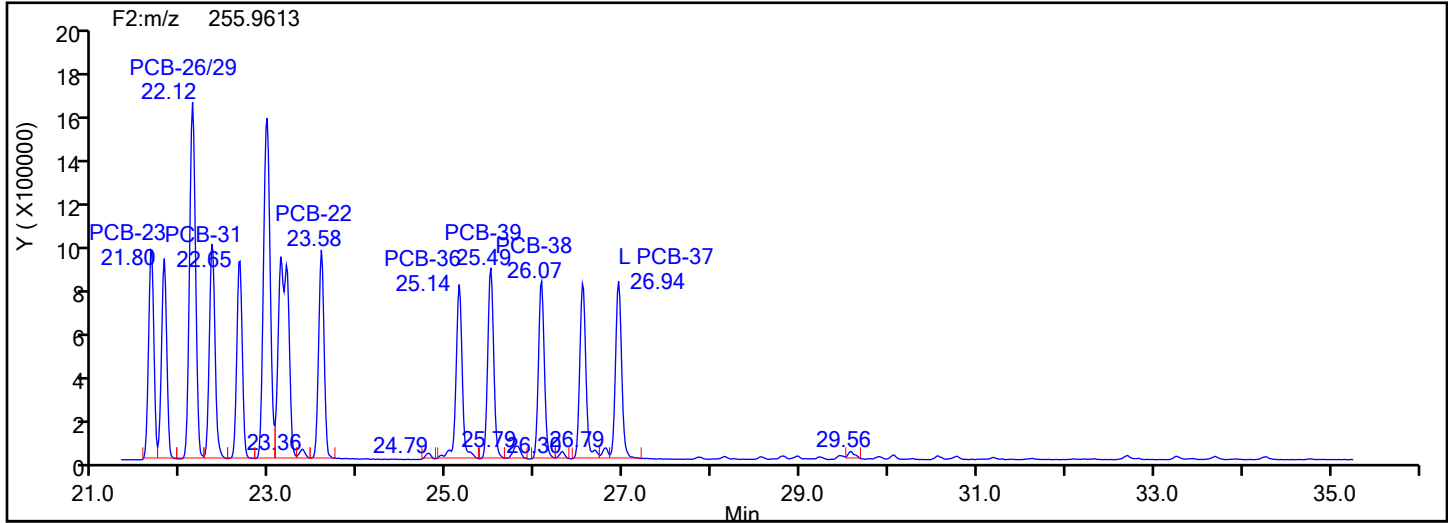
Worklist#: 87130

Sample Line#: 4

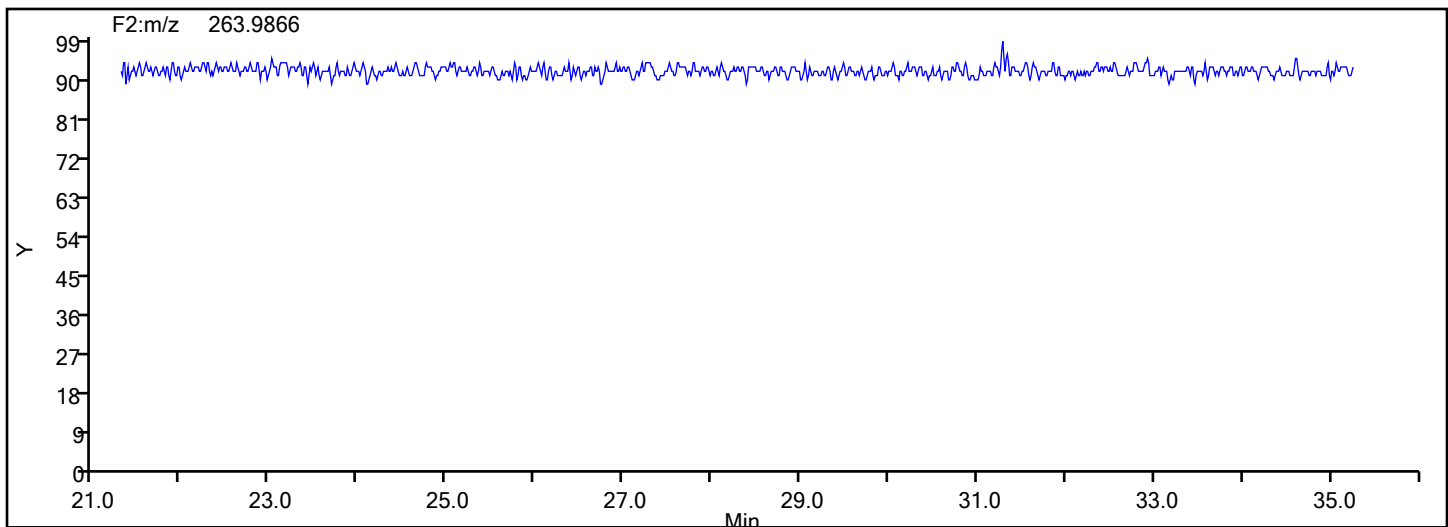
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

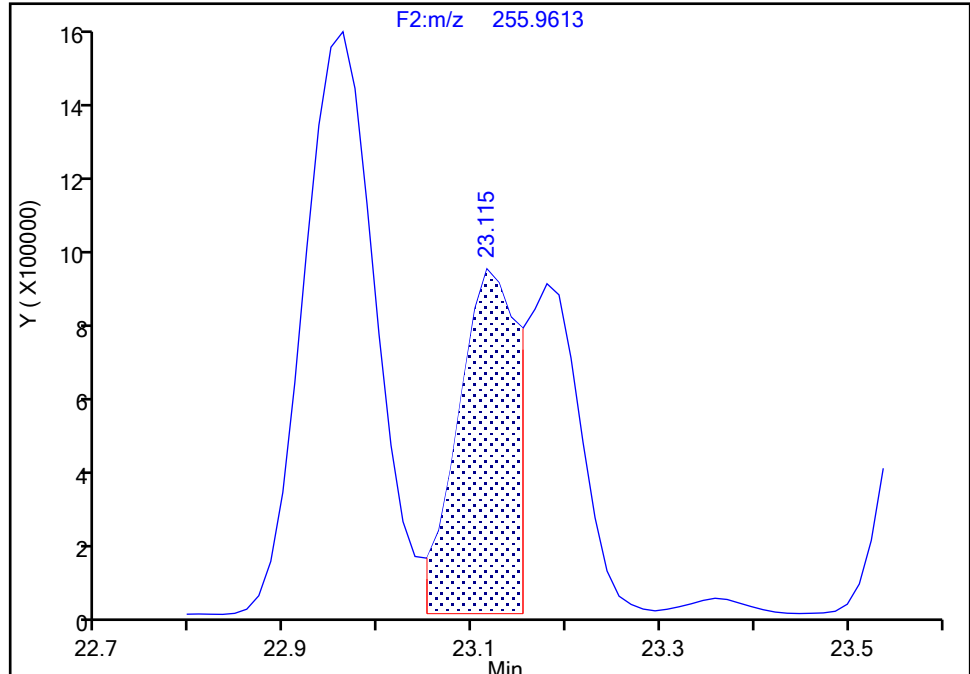
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

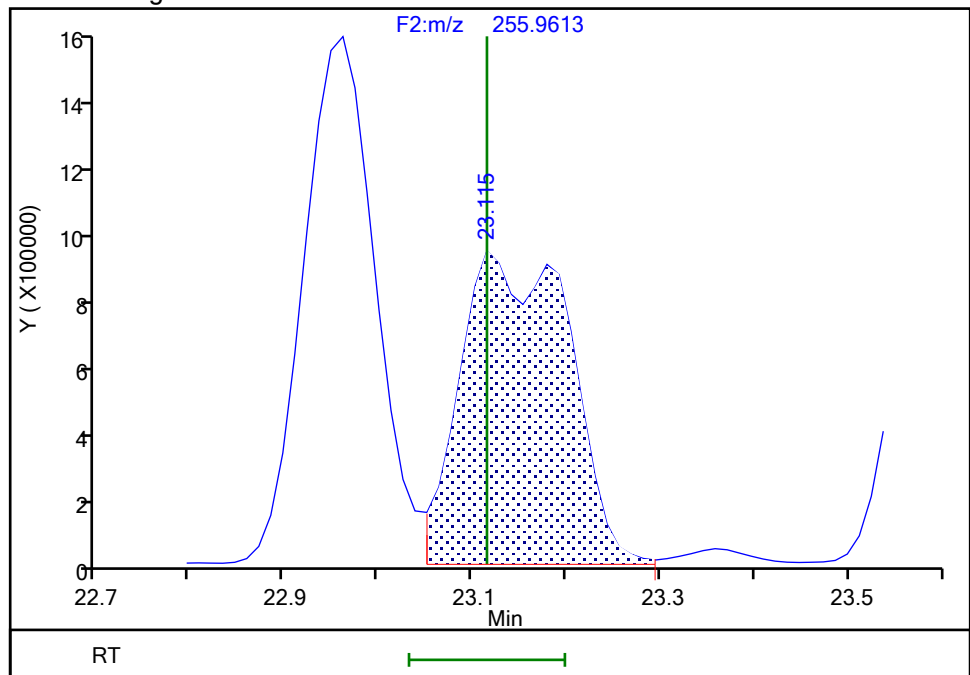
RT: 23.12  
Area: 3808070  
Amount: 61.066350  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.12  
Area: 7217221  
Amount: 98.411321  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

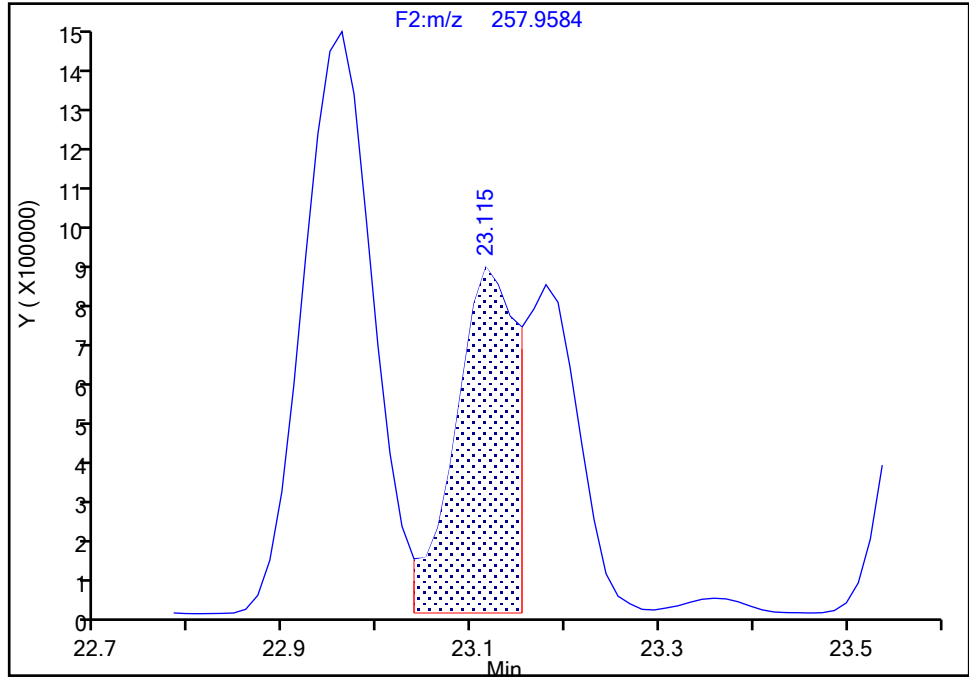
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

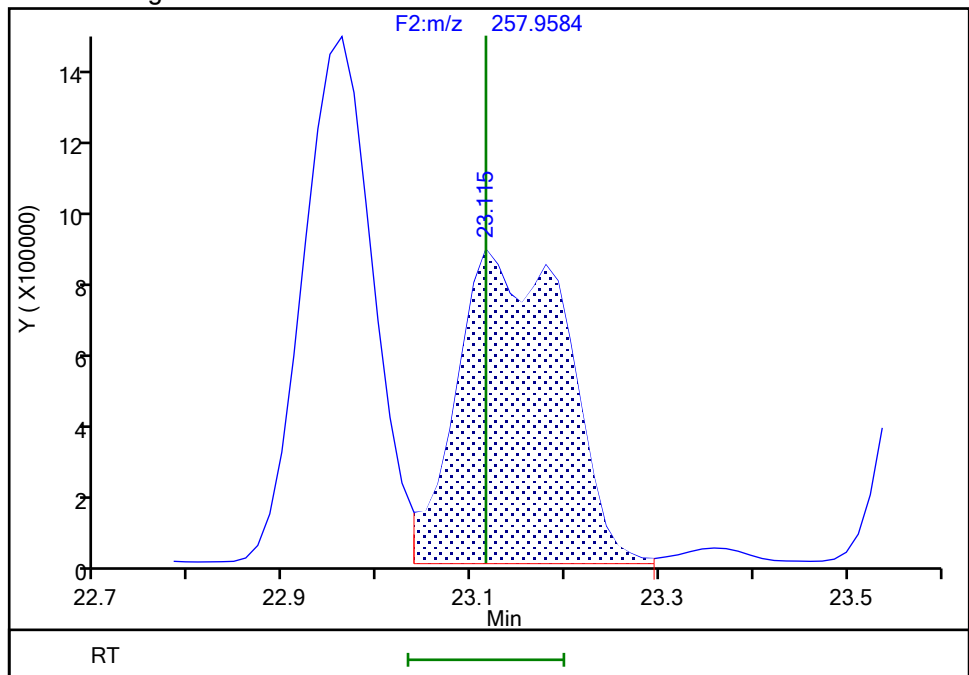
RT: 23.12  
Area: 3822480  
Amount: 61.066350  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.12  
Area: 7096925  
Amount: 98.411321  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024 3:53:39 PM  
BASFHWC-Fa2024-4267

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

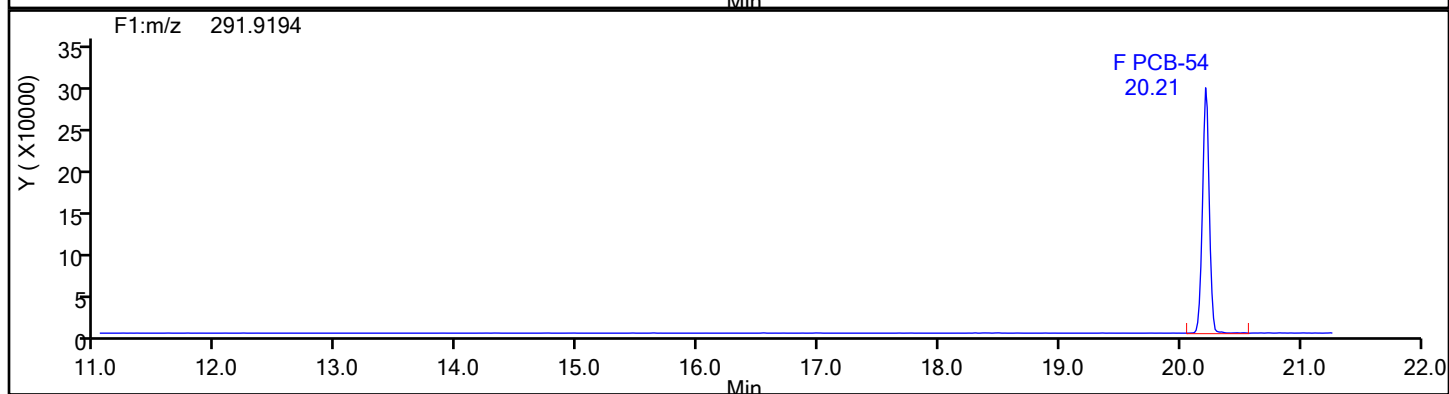
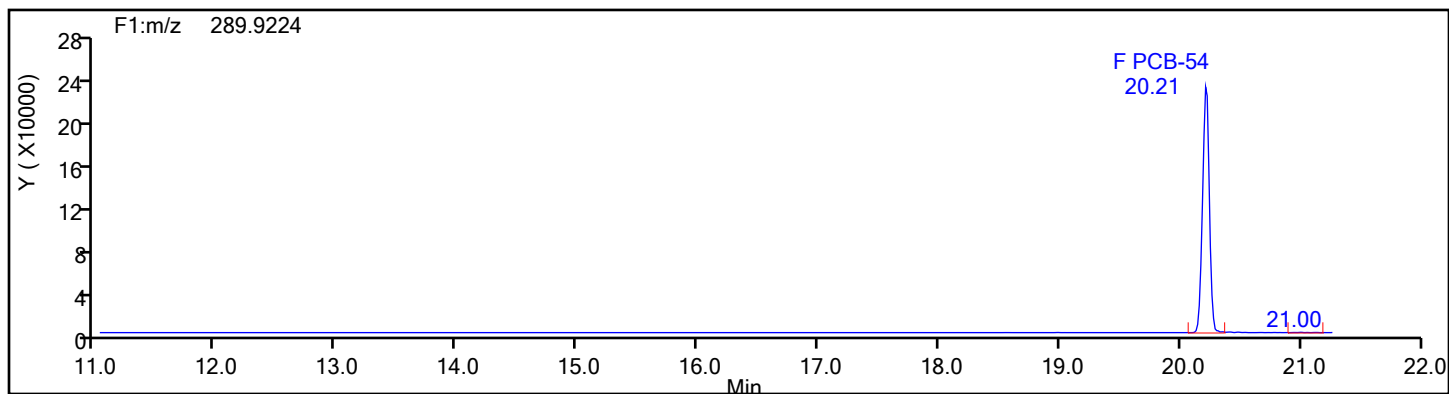
Worklist#: 87130

Sample Line#: 4

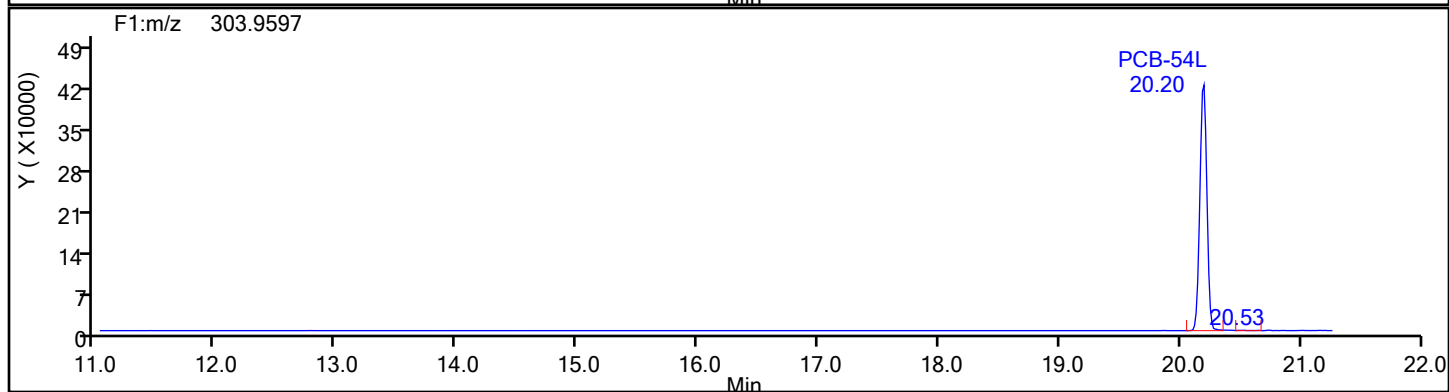
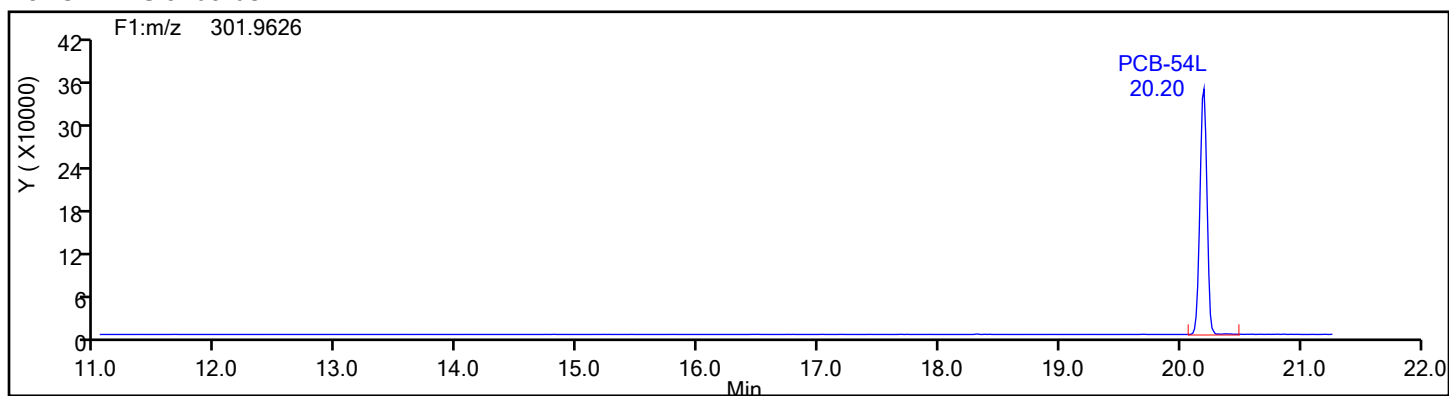
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

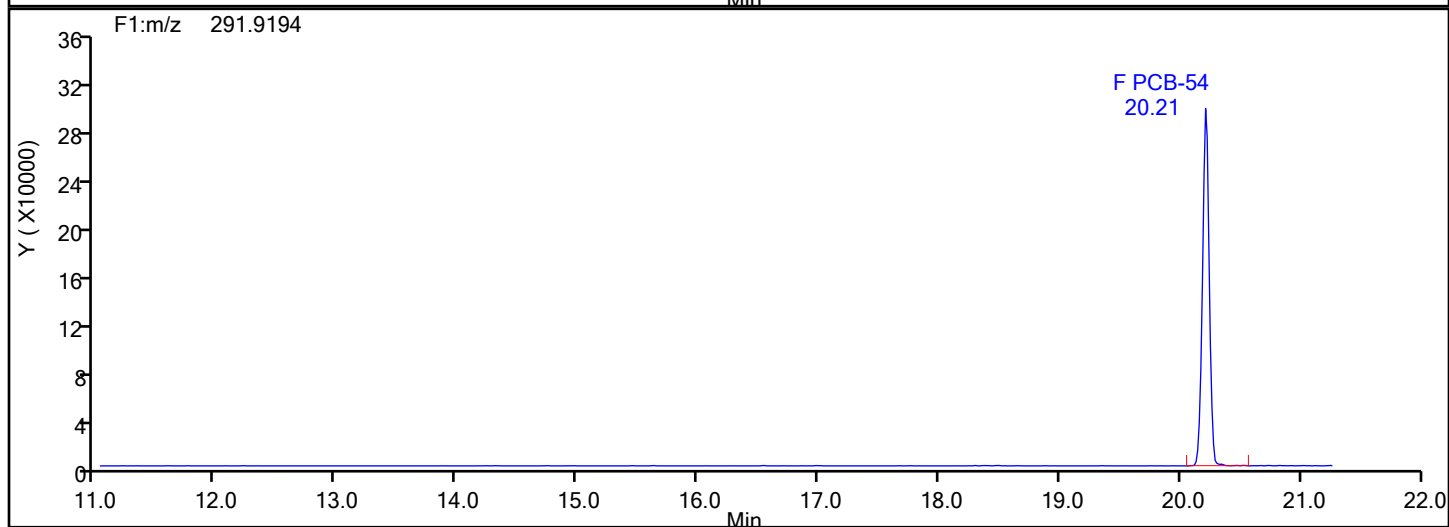
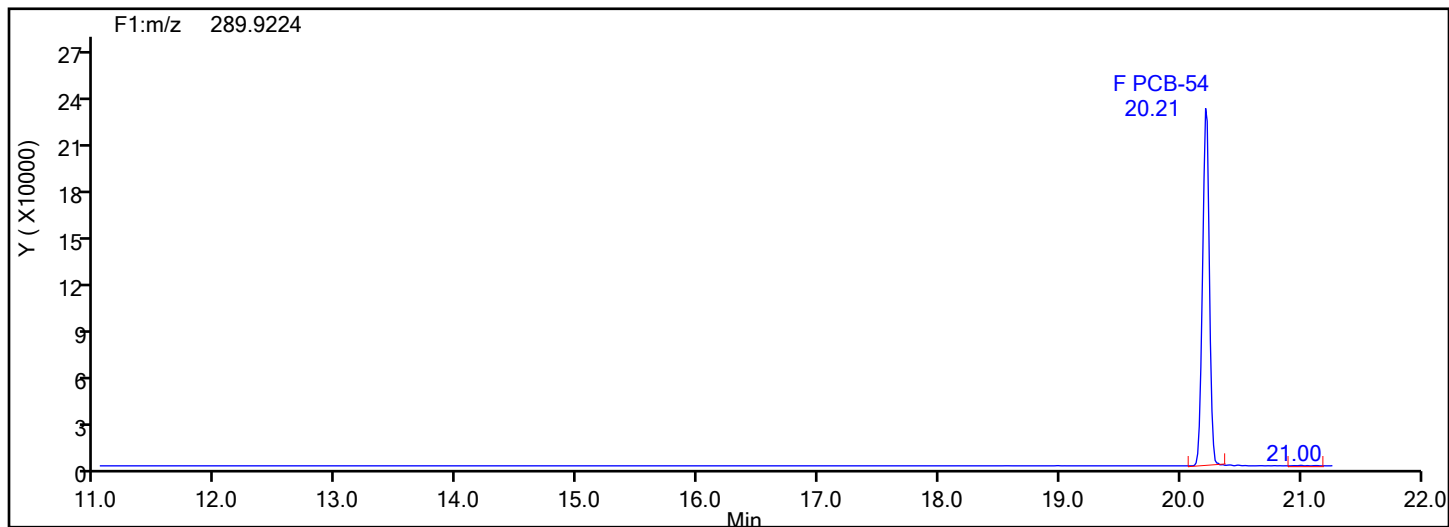
Worklist#: 87130

Sample Line#: 4

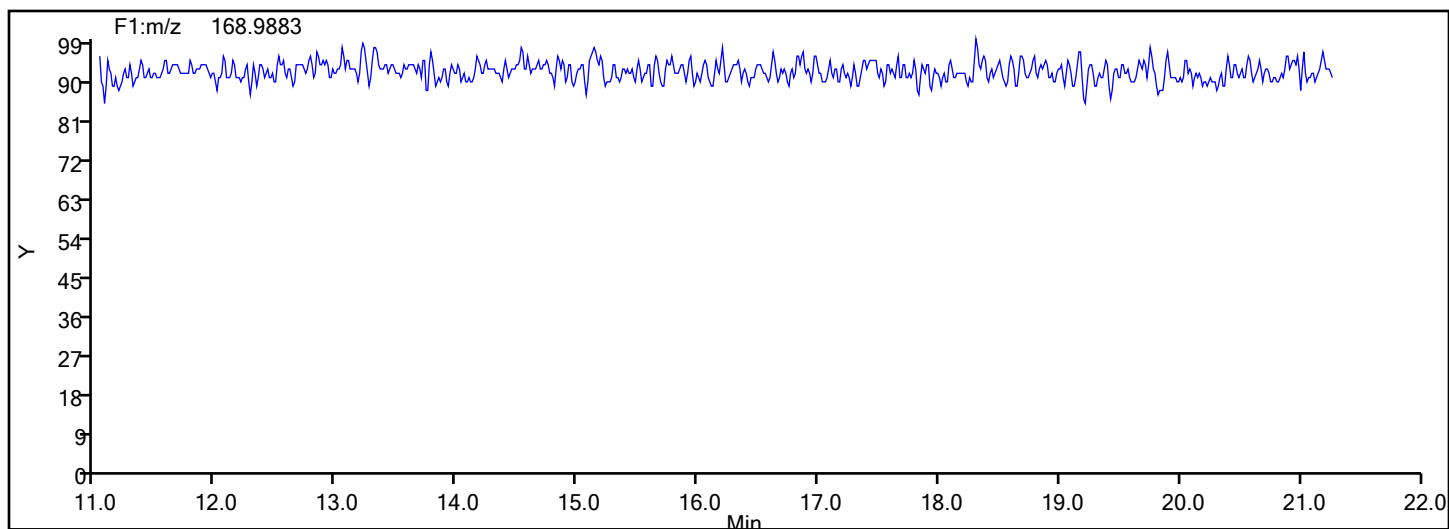
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

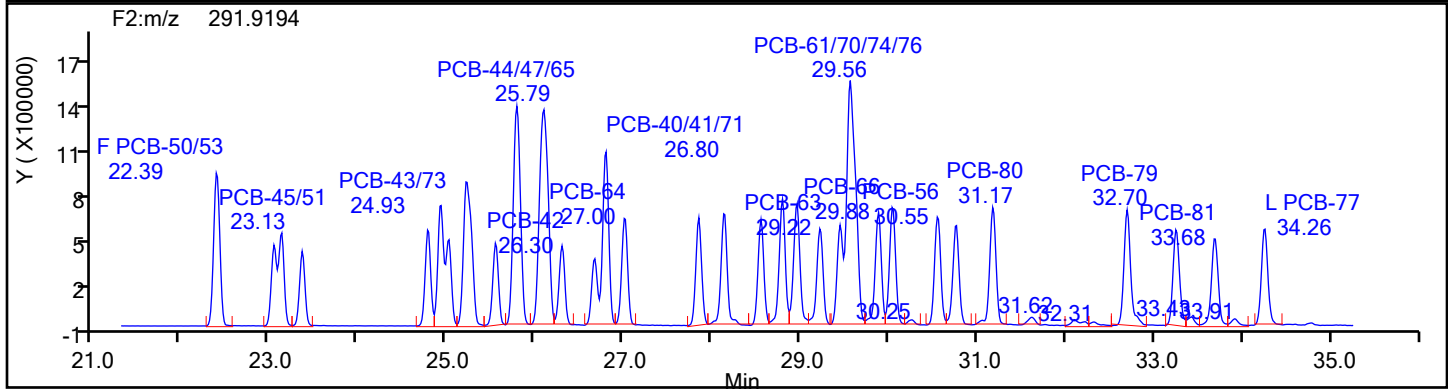
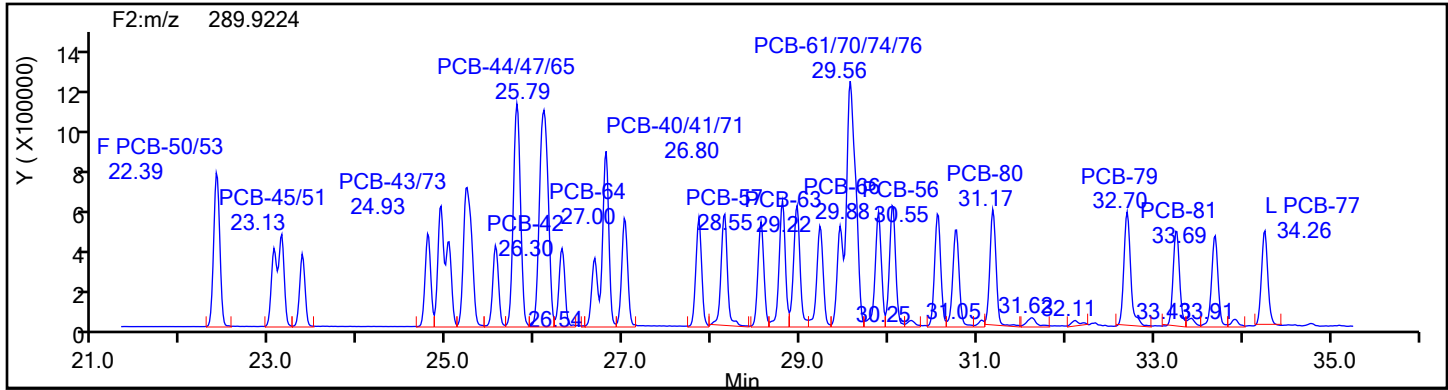
Worklist#: 87130

Sample Line#: 4

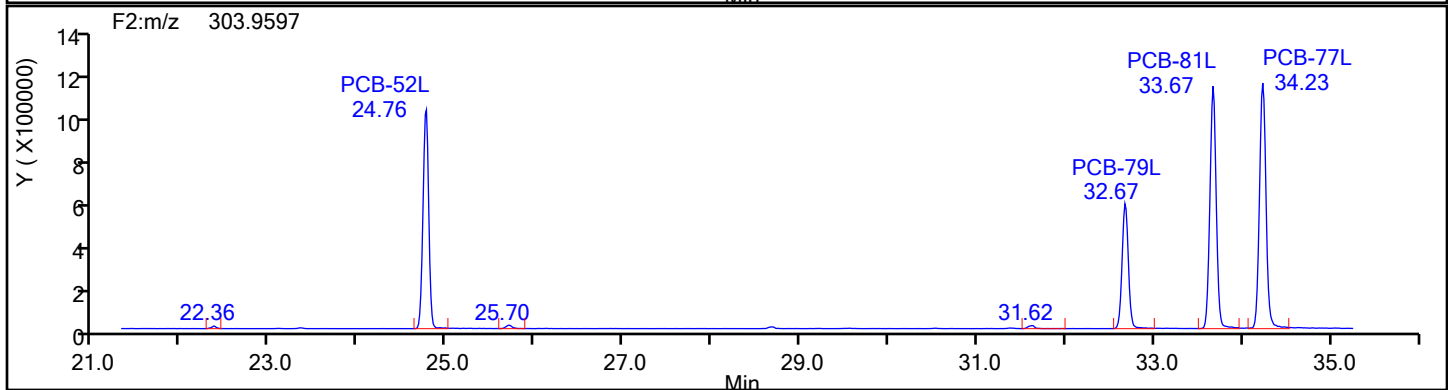
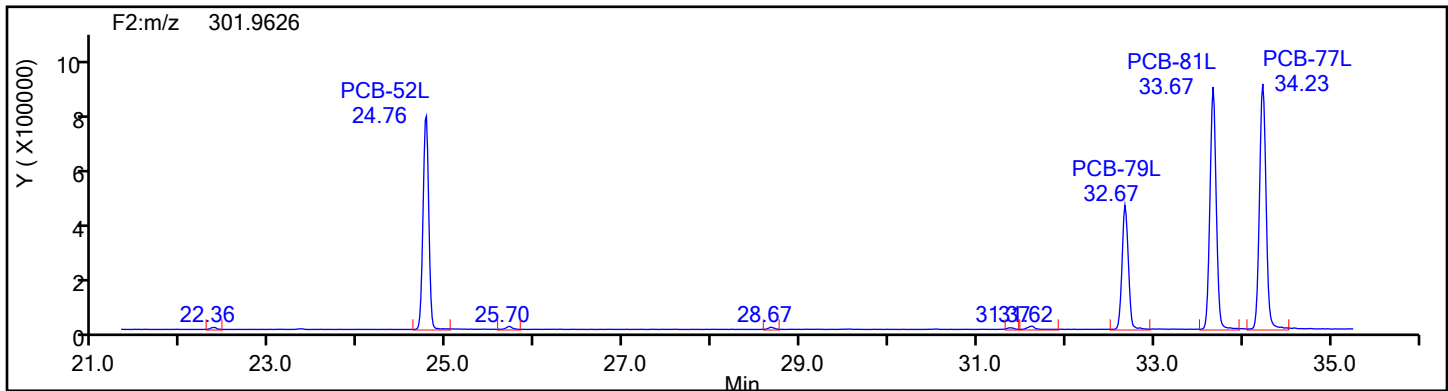
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

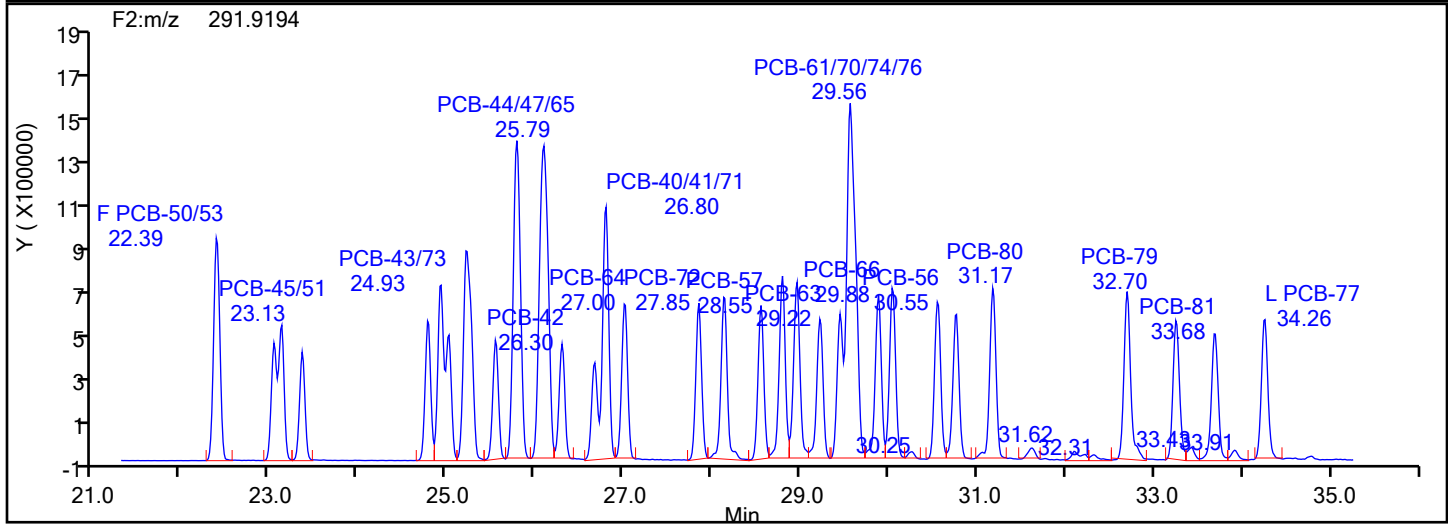
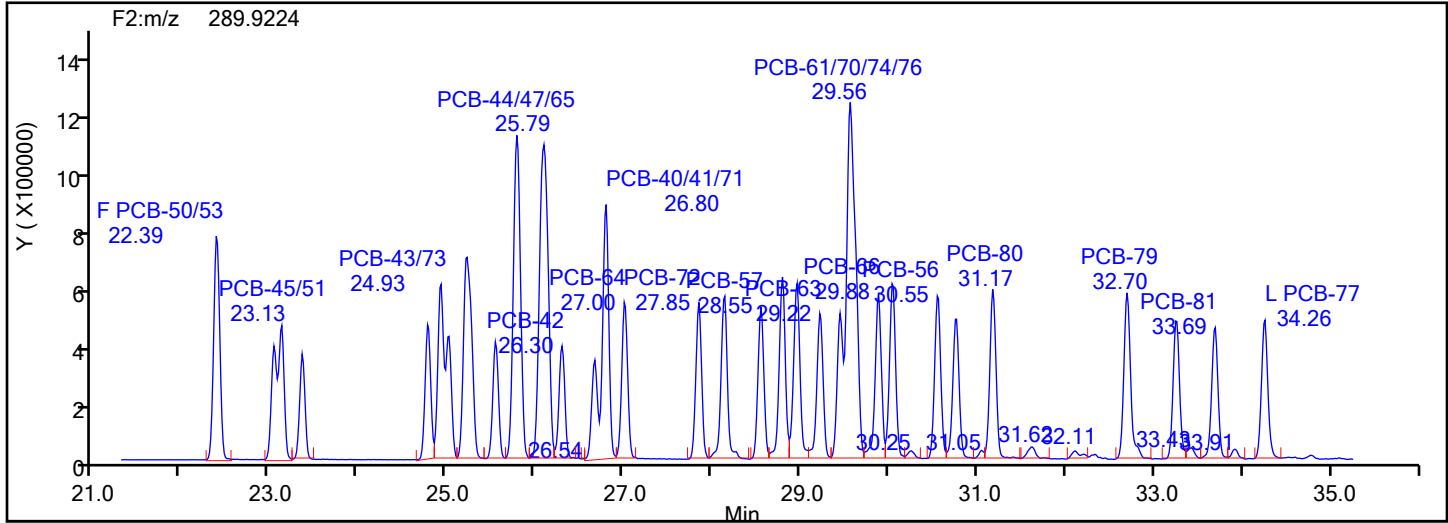
Worklist#: 87130

Sample Line#: 4

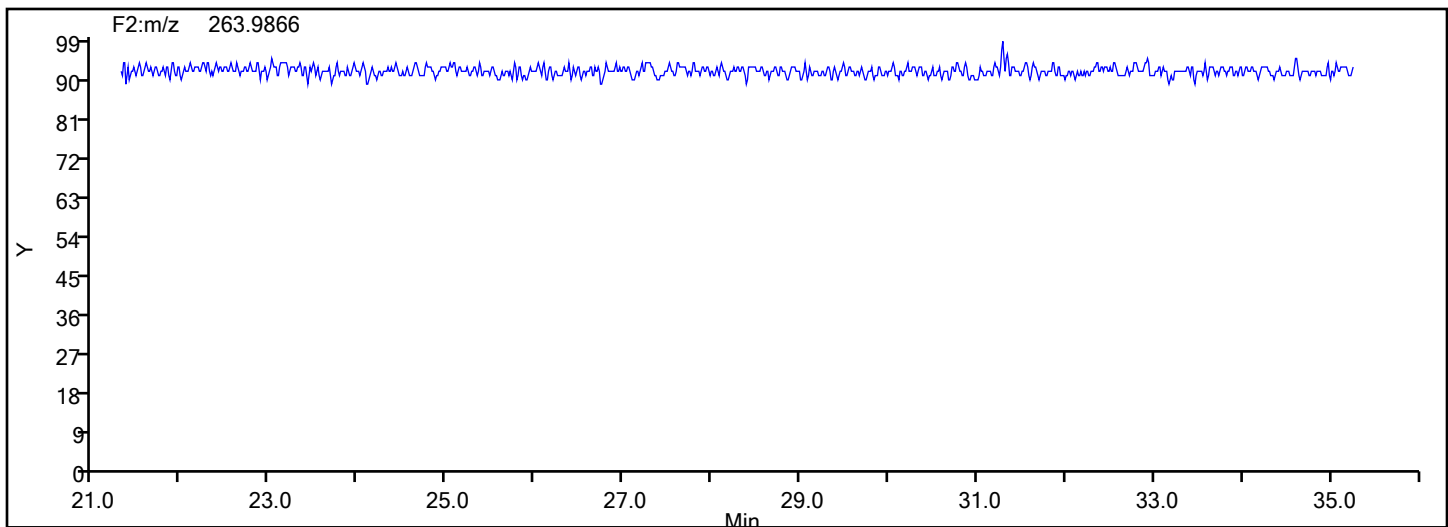
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

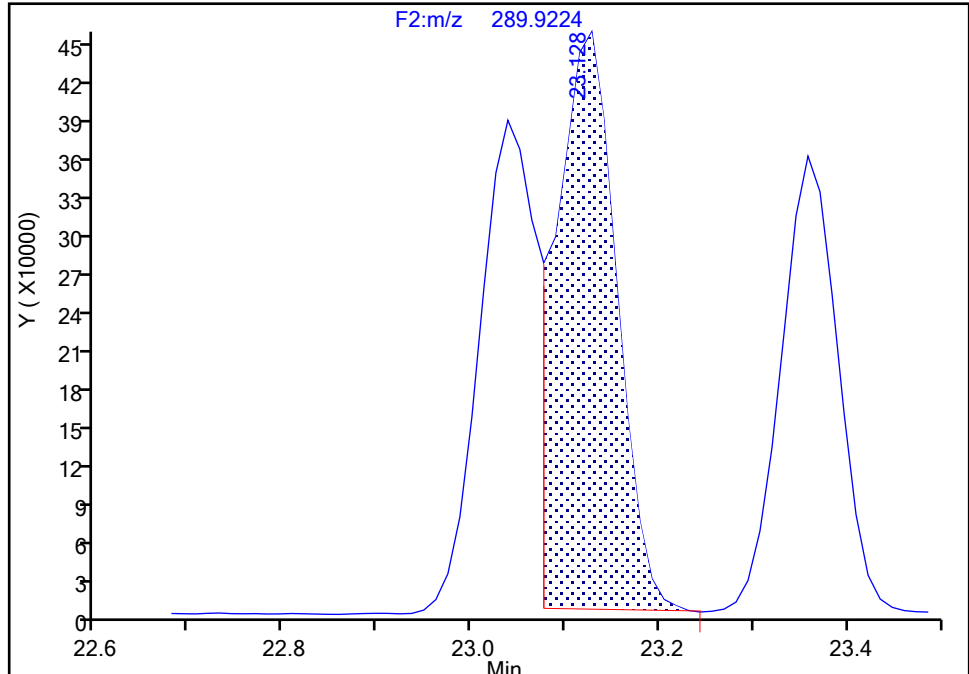
Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 1

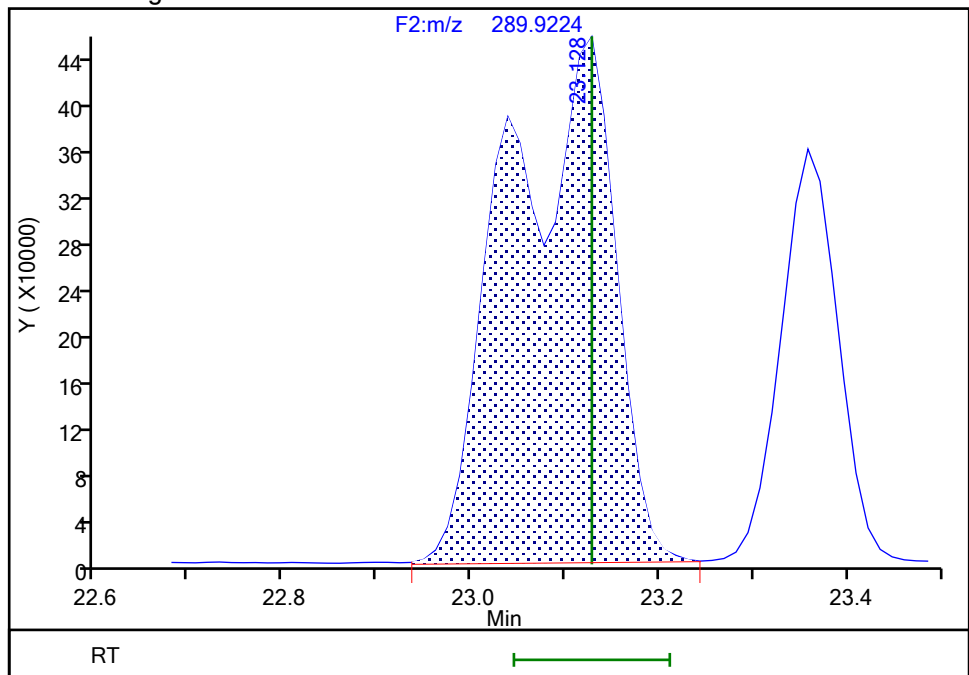
RT: 23.13  
Area: 2002794  
Amount: 67.548238  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.13  
Area: 3620739  
Amount: 100.2261  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

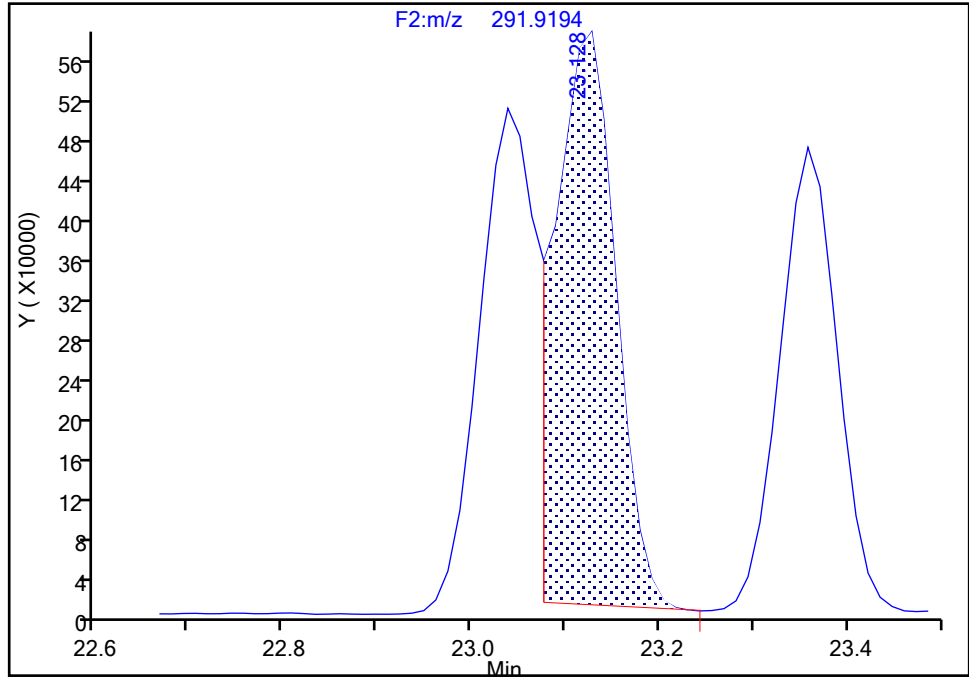
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 2

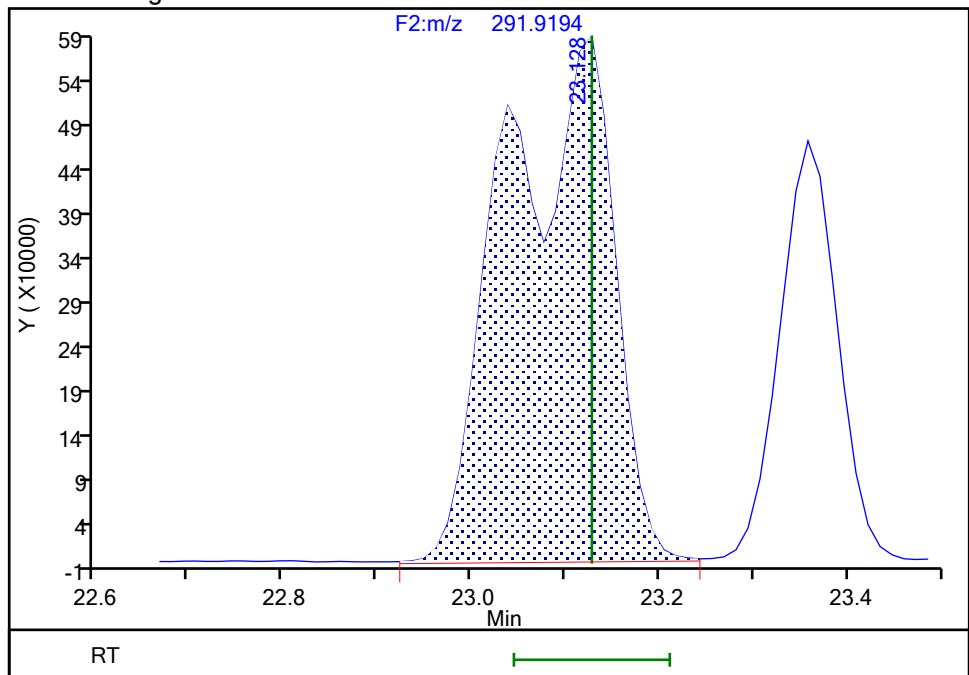
RT: 23.13  
Area: 2503417  
Amount: 67.548238  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.13  
Area: 4657473  
Amount: 100.2261  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:23:50 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04273  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

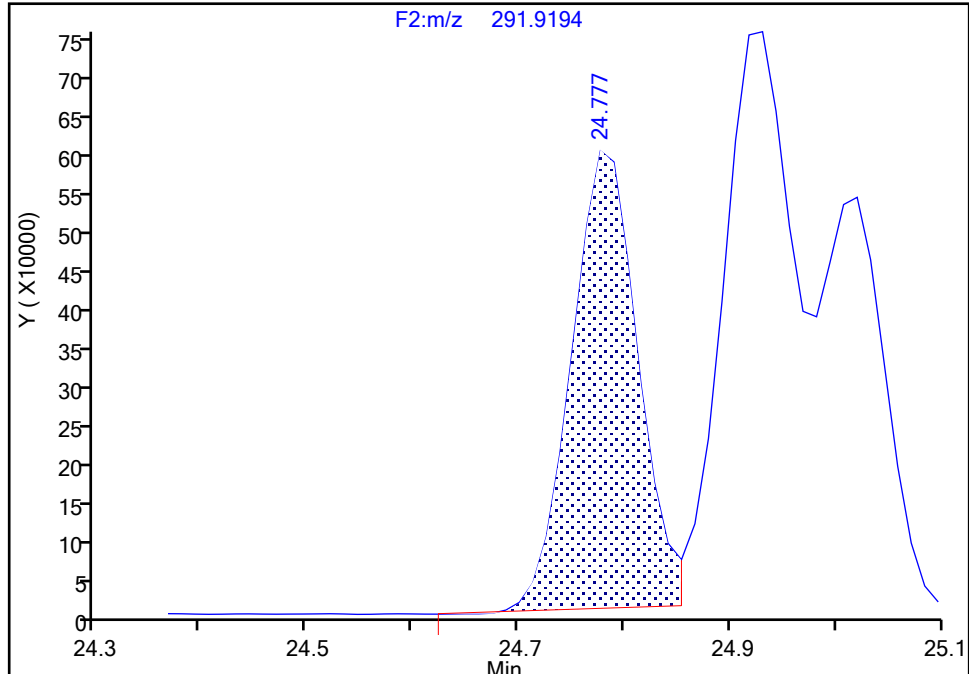
Detector F2(21.81 :35.54 )

**PCB-52, CAS: 35693-99-3**

Signal: 2

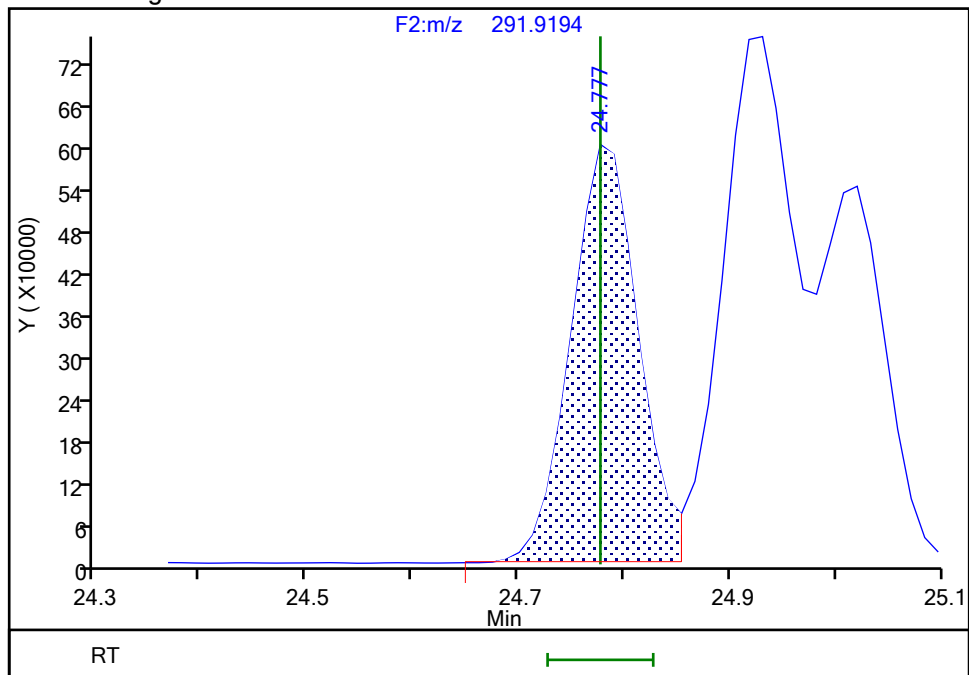
RT: 24.78  
Area: 2593697  
Amount: 51.914694  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.78  
Area: 2667090  
Amount: 51.406431  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:32 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

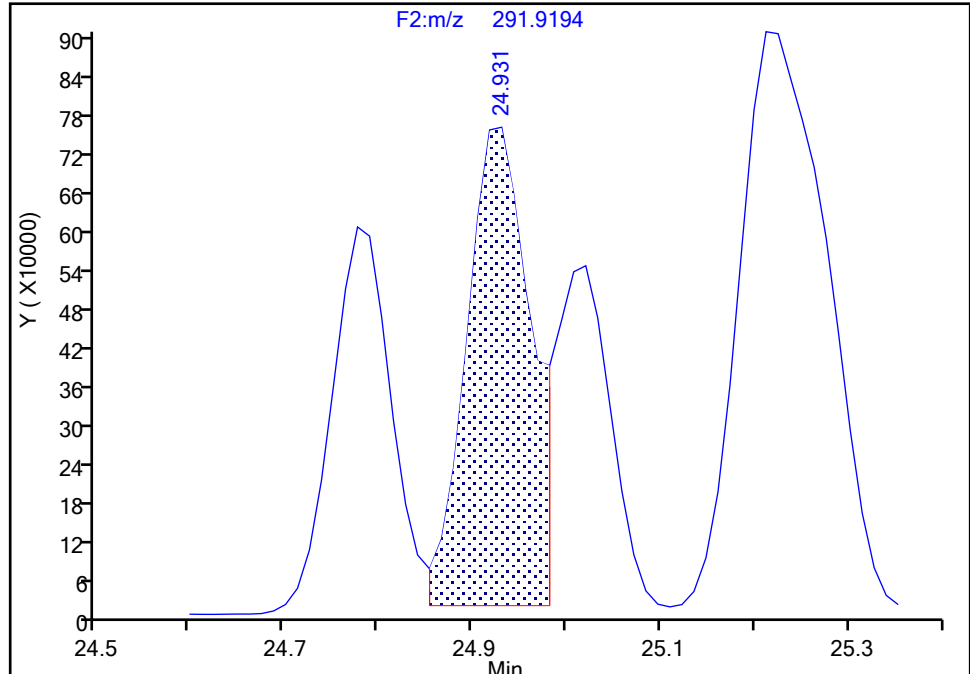
Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

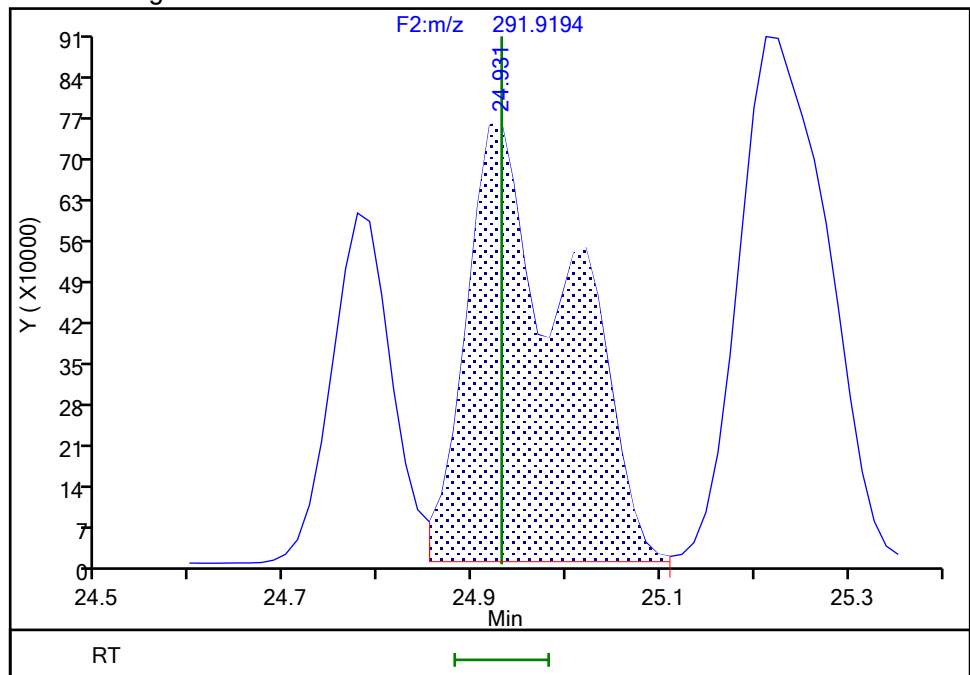
RT: 24.93  
Area: 3481878  
Amount: 72.083869  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 5740441  
Amount: 99.446054  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

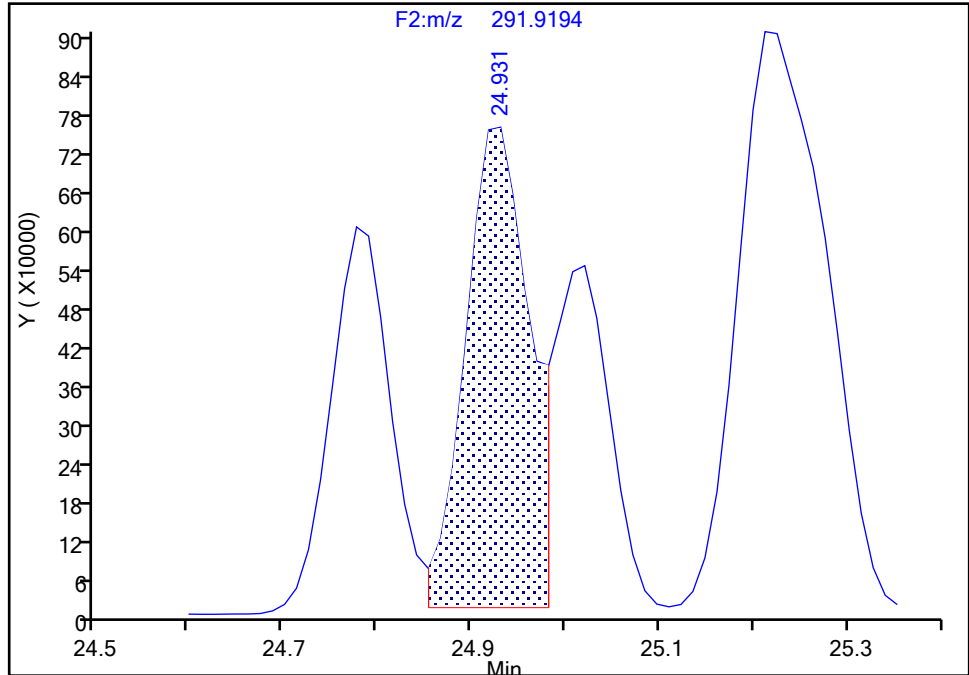
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

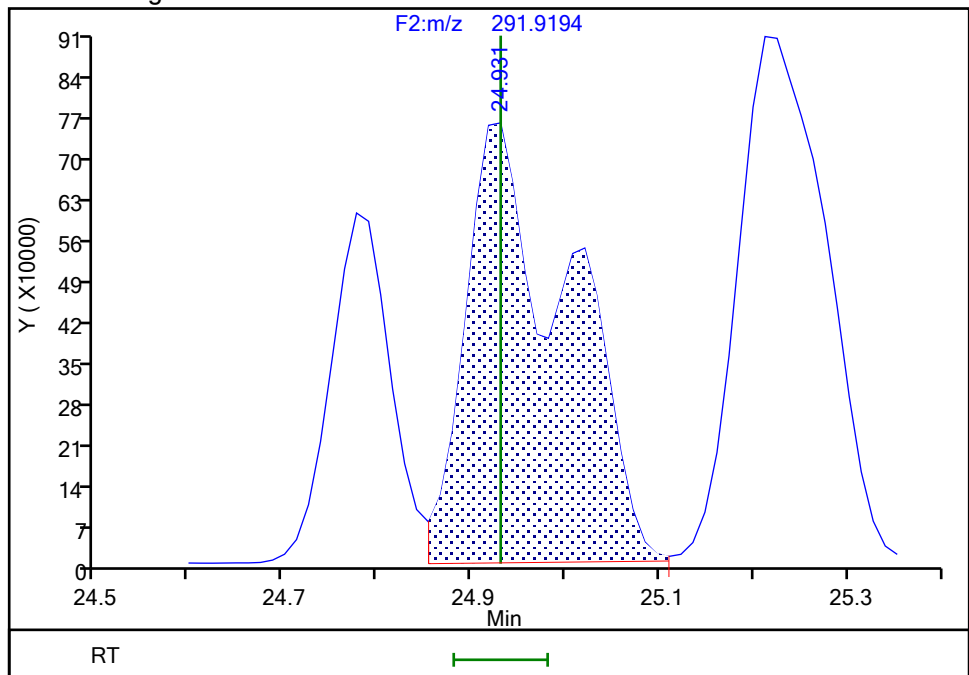
RT: 24.93  
Area: 3481878  
Amount: 72.083869  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 5740441  
Amount: 99.446054  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

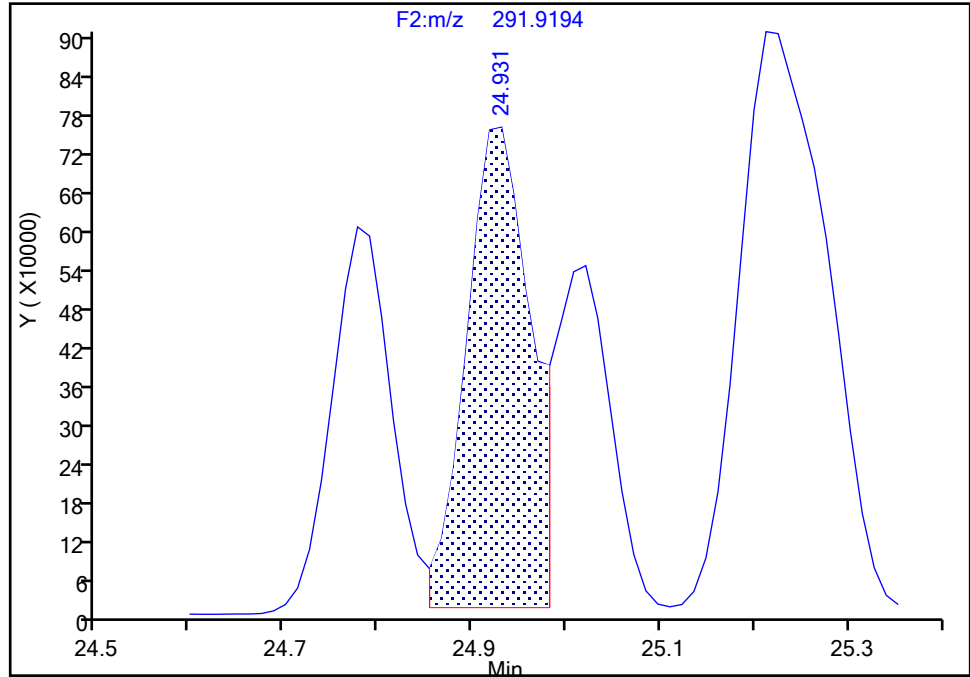
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 3

RT: 24.93  
Area: 6287281  
Amount: 72.083869  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 24.93  
Area: 10270296  
Amount: 99.446054  
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 21:24:40 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

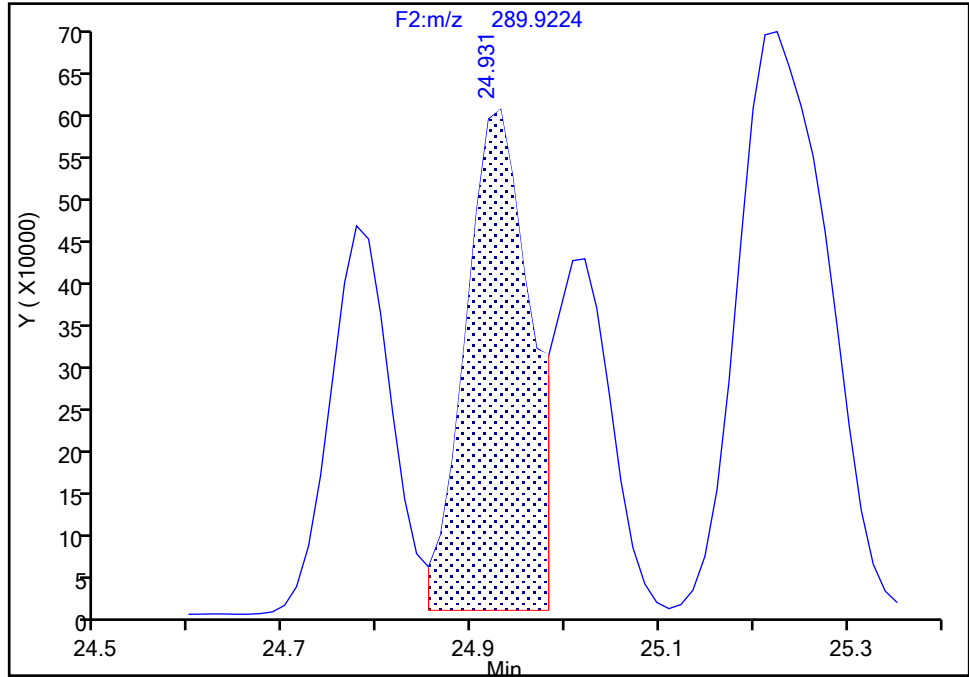
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-43/73, CAS: STL02293

Signal: 1

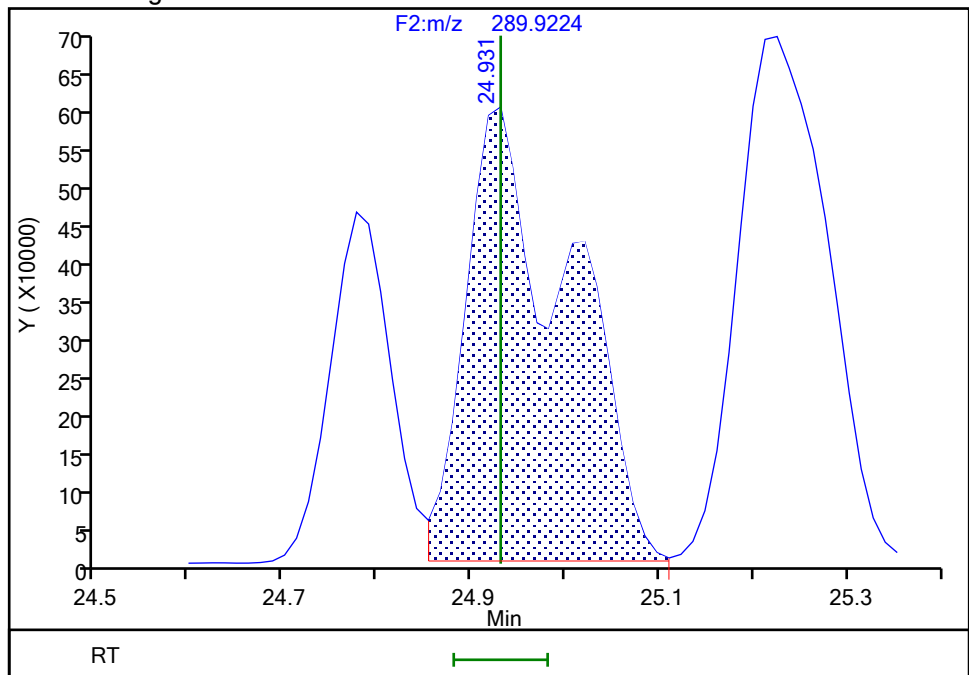
RT: 24.93  
Area: 2805403  
Amount: 72.083869  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 4529855  
Amount: 99.446054  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:42 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

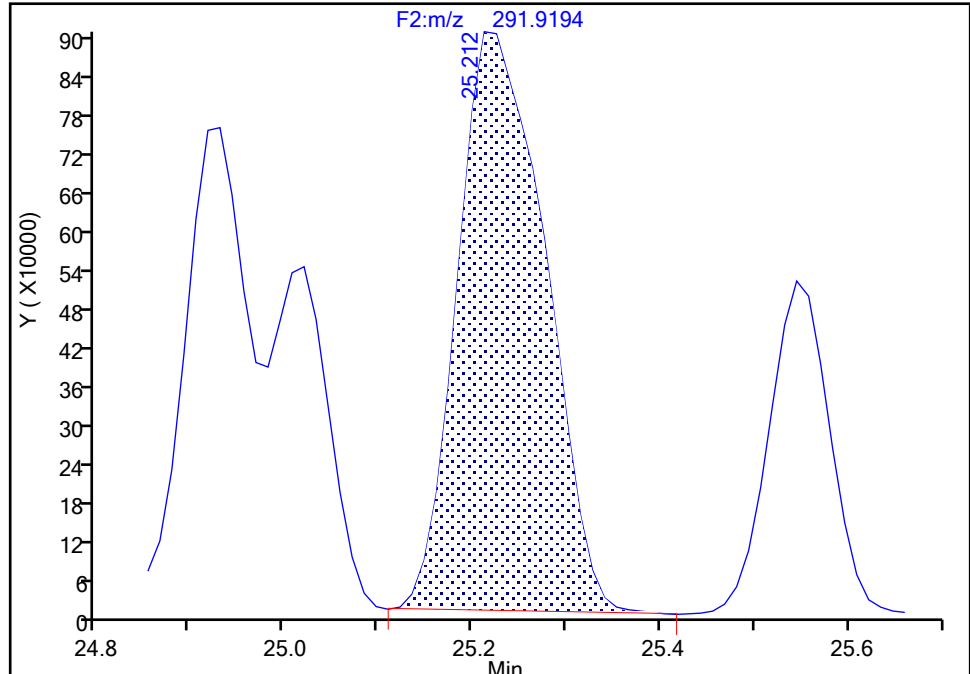
Detector F2(21.81 :35.54 )

**PCB-49/69, CAS: STL01805**

Signal: 2

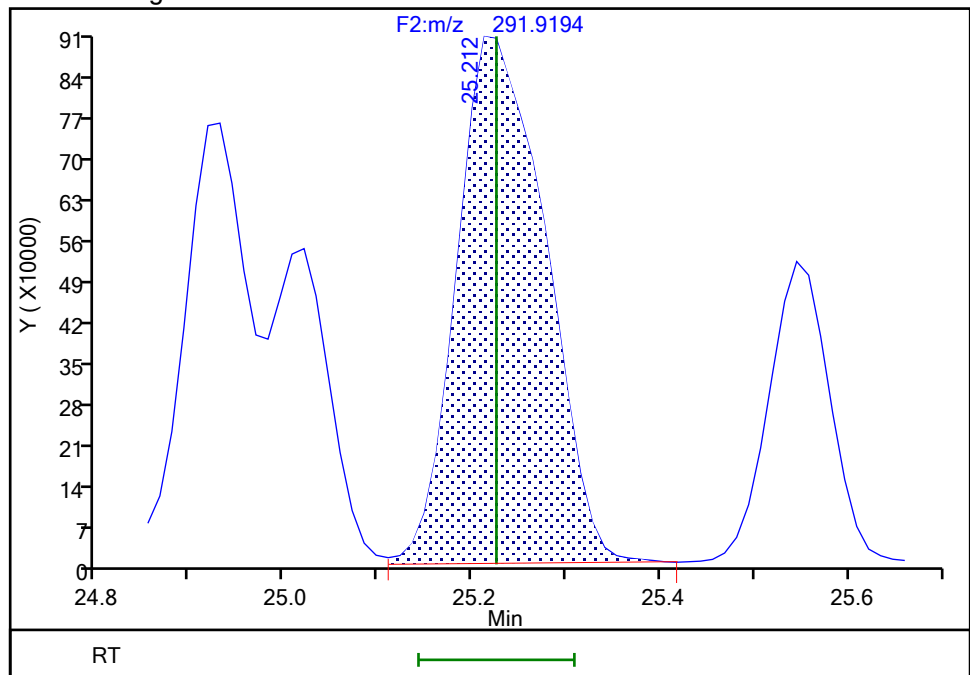
RT: 25.21  
Area: 5829549  
Amount: 101.3990  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.21  
Area: 5920952  
Amount: 98.235687  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#: 0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

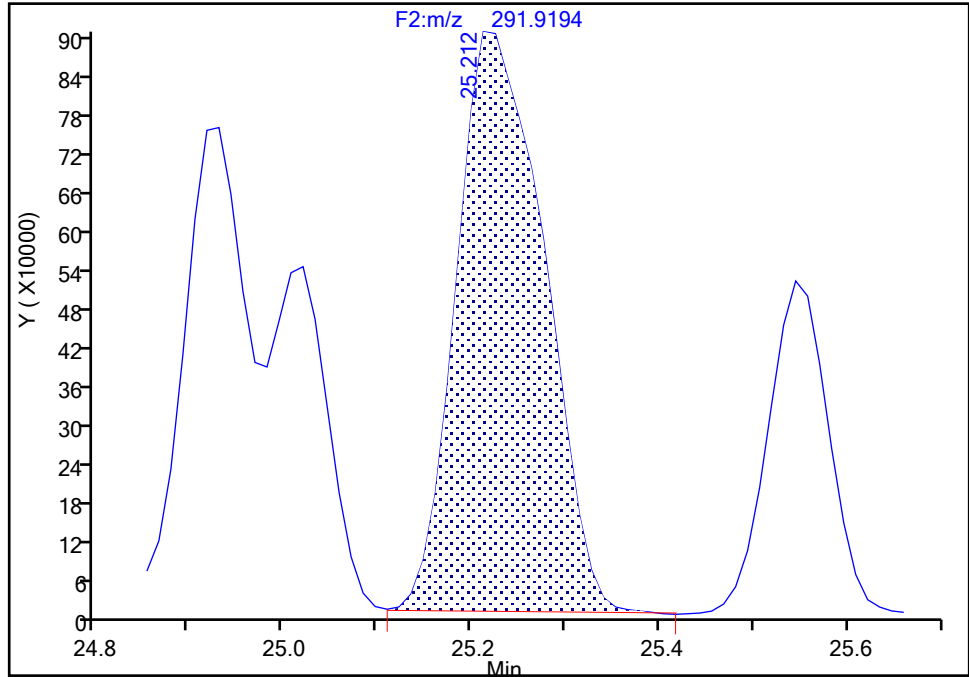
Detector F2(21.81 :35.54 )

**PCB-49/69, CAS: STL01805**

Signal: 2

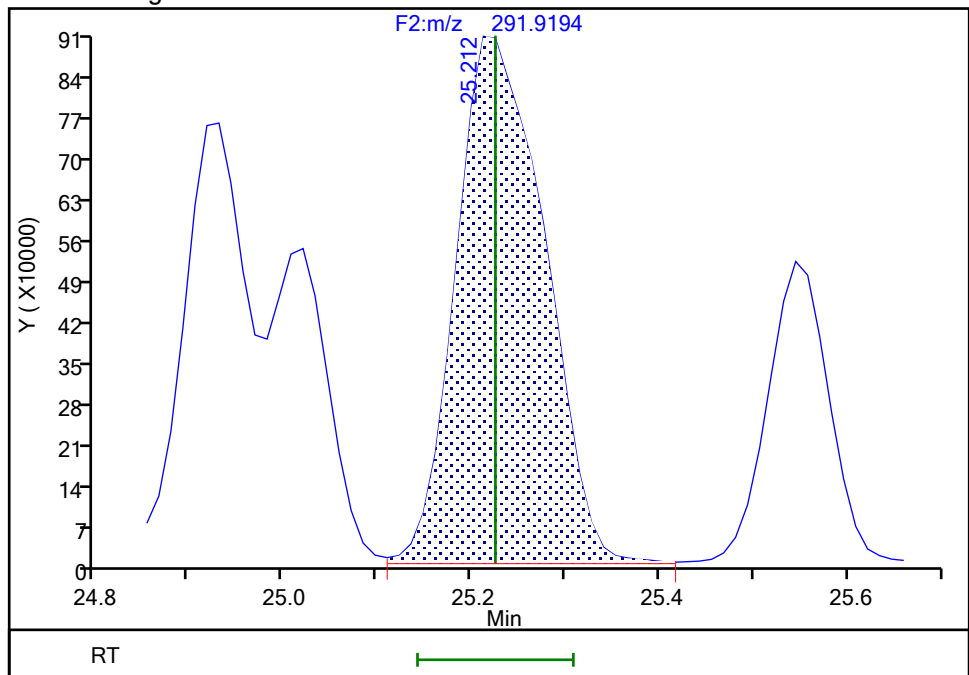
RT: 25.21  
Area: 5829549  
Amount: 101.3990  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.21  
Area: 5920952  
Amount: 98.235687  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:45 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

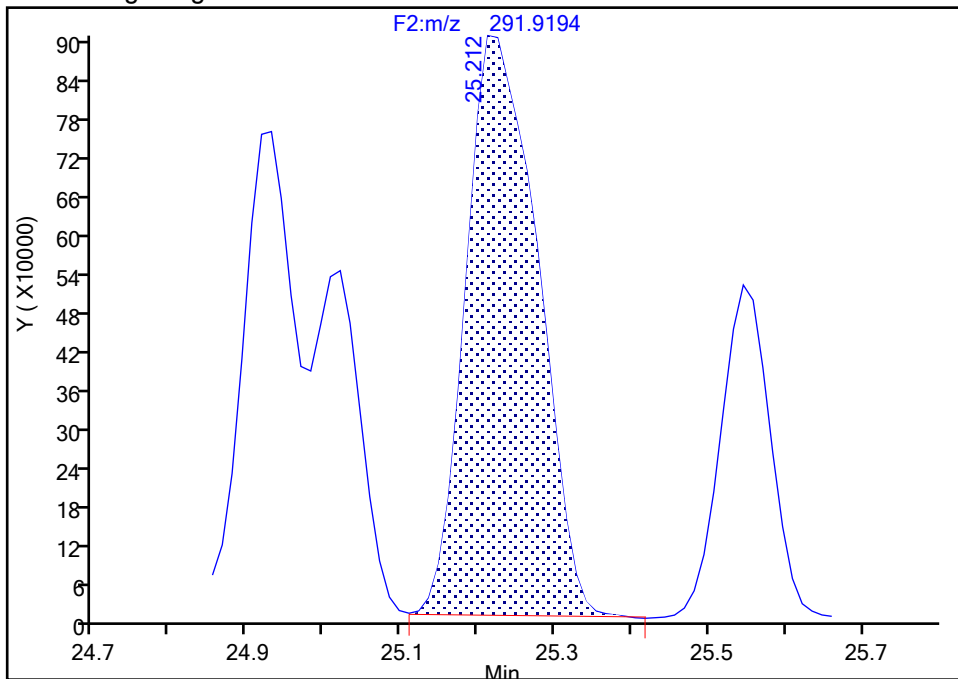
Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d			
Injection Date:	31-May-2024 19:10:00	Instrument ID:	D2D	
Lims ID:	IC L4			
Client ID:				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#: 4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL	
Column:	SPB-Octyl ( 0.25 mm)	Detector	F2(21.81 :35.54 )	

PCB-49/69, CAS: STL01805

Signal: 3

RT: 25.23  
Area: 10399366  
Amount: 101.3990  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 25.23  
Area: 10490769  
Amount: 98.235687  
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 21:24:45 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

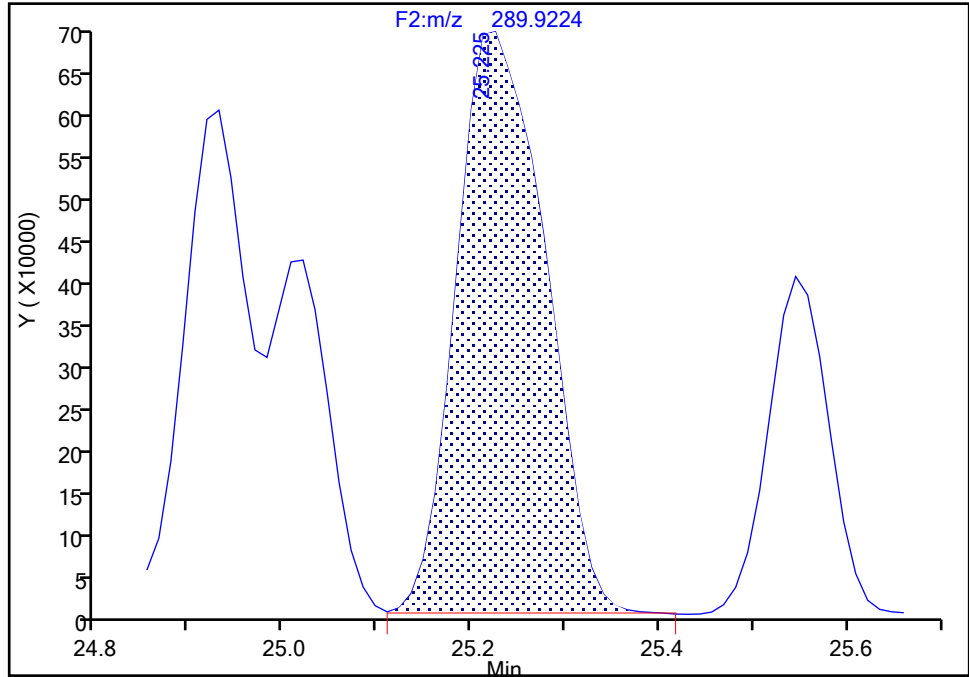
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-49/69, CAS: STL01805

Signal: 1

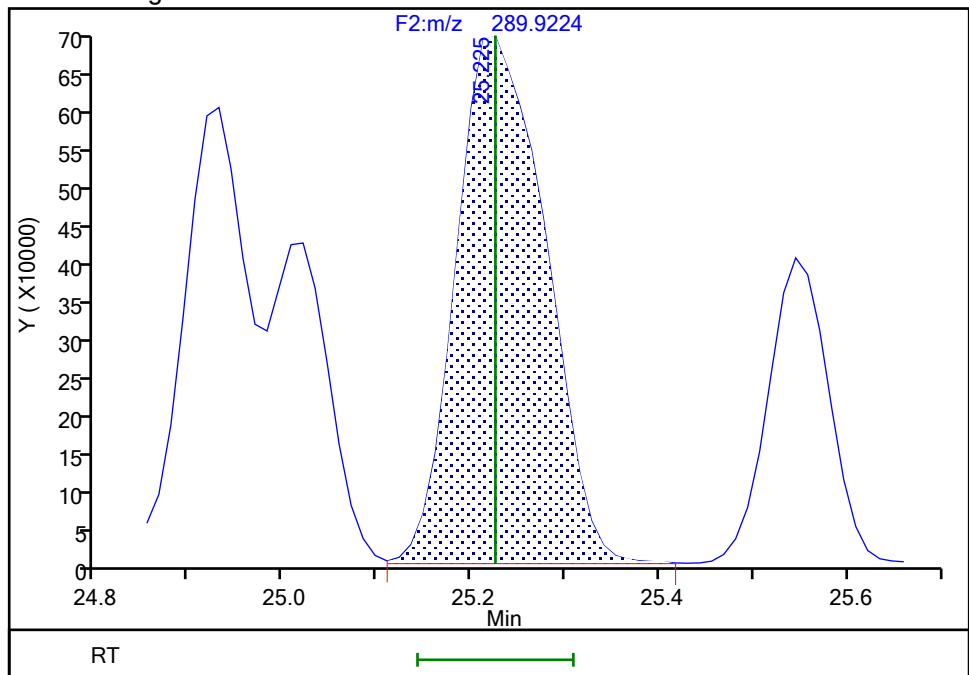
RT: 25.23  
Area: 4569817  
Amount: 101.3990  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.23  
Area: 4569817  
Amount: 98.235687  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:24:47 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

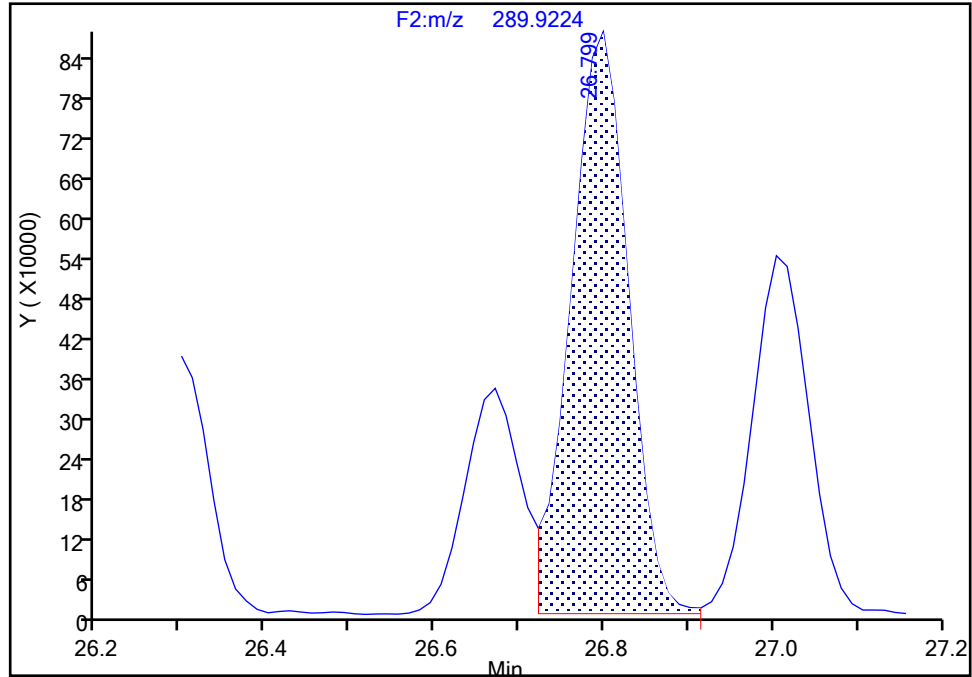
Detector F2(21.81 :35.54 )

PCB-40/41/71, CAS: STL02292

Signal: 1

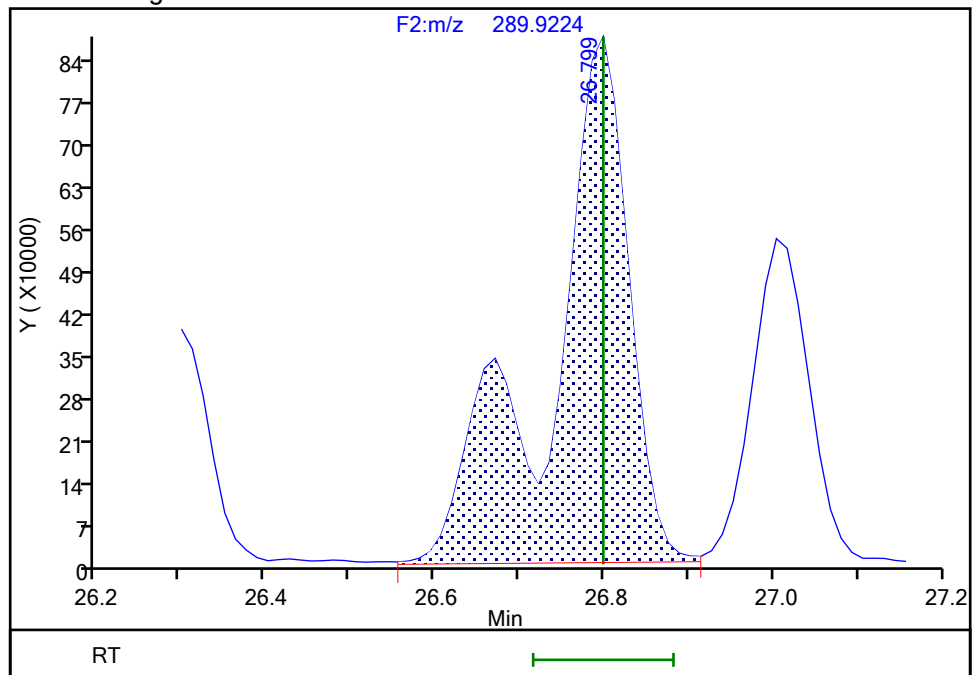
RT: 26.80  
Area: 4106860  
Amount: 120.2858  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.80  
Area: 5676547  
Amount: 144.2424  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

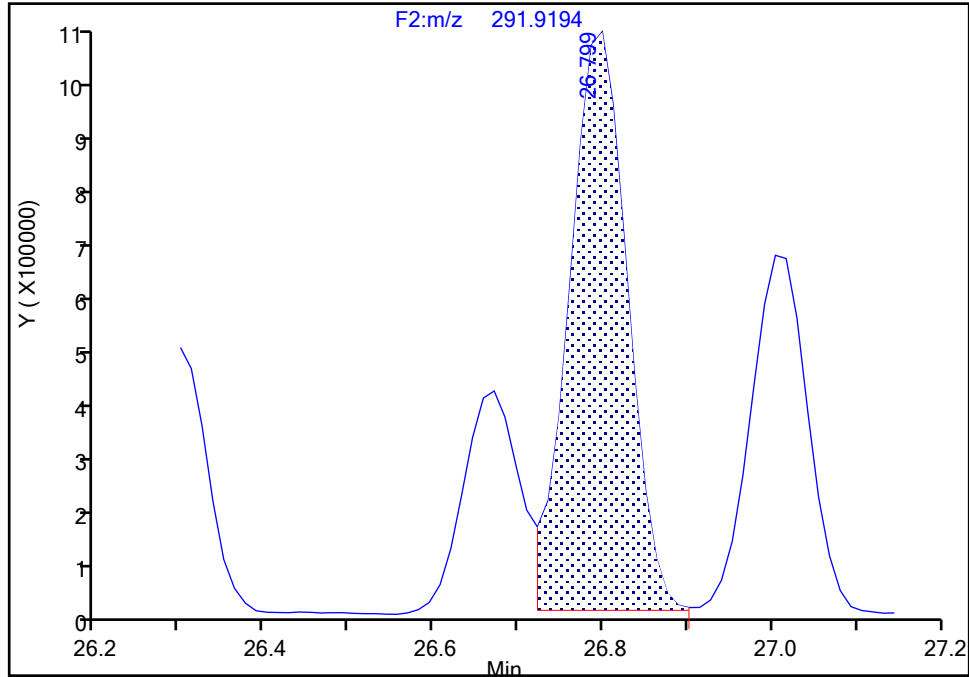
F2(21.81 :35.54 )

PCB-40/41/71, CAS: STL02292

Signal: 2

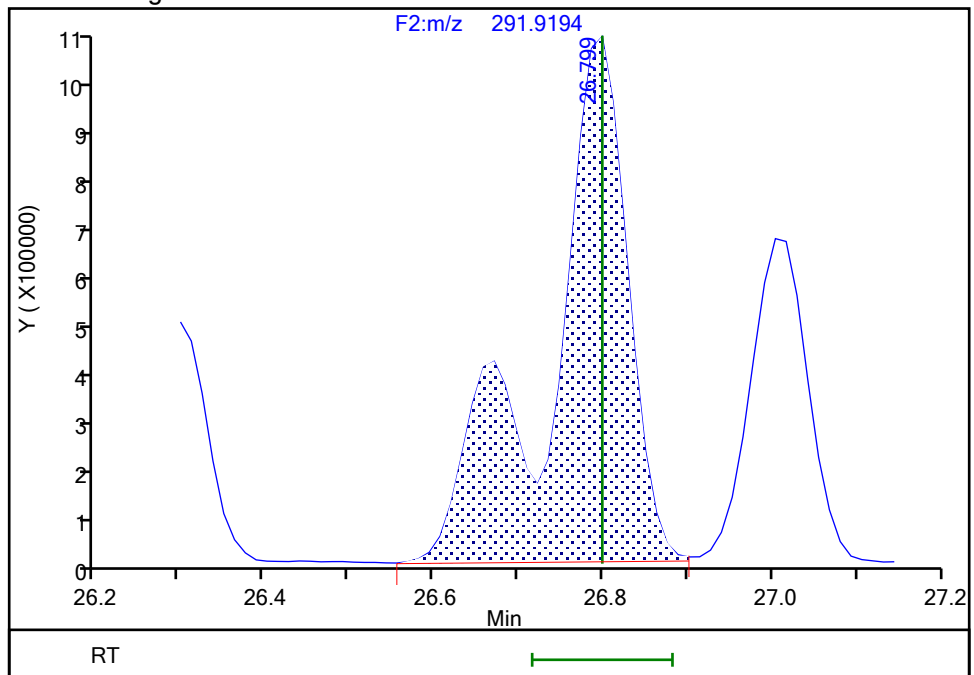
RT: 26.80  
Area: 5159837  
Amount: 120.2858  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.80  
Area: 7100823  
Amount: 144.2424  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

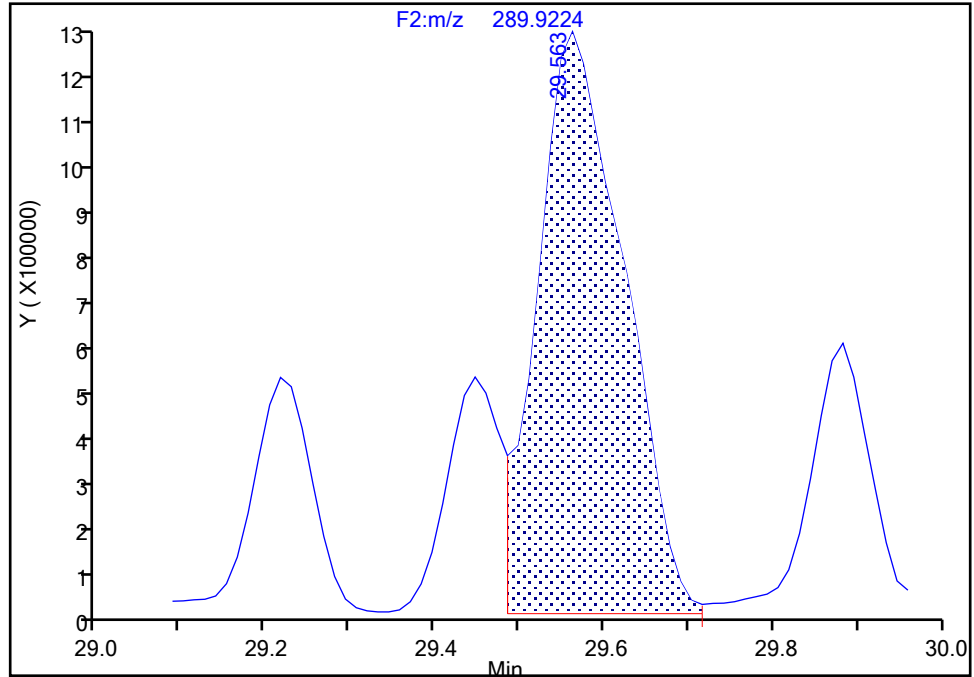
Detector F2(21.81 :35.54 )

**PCB-61/70/74/76, CAS: STL01808**

Signal: 1

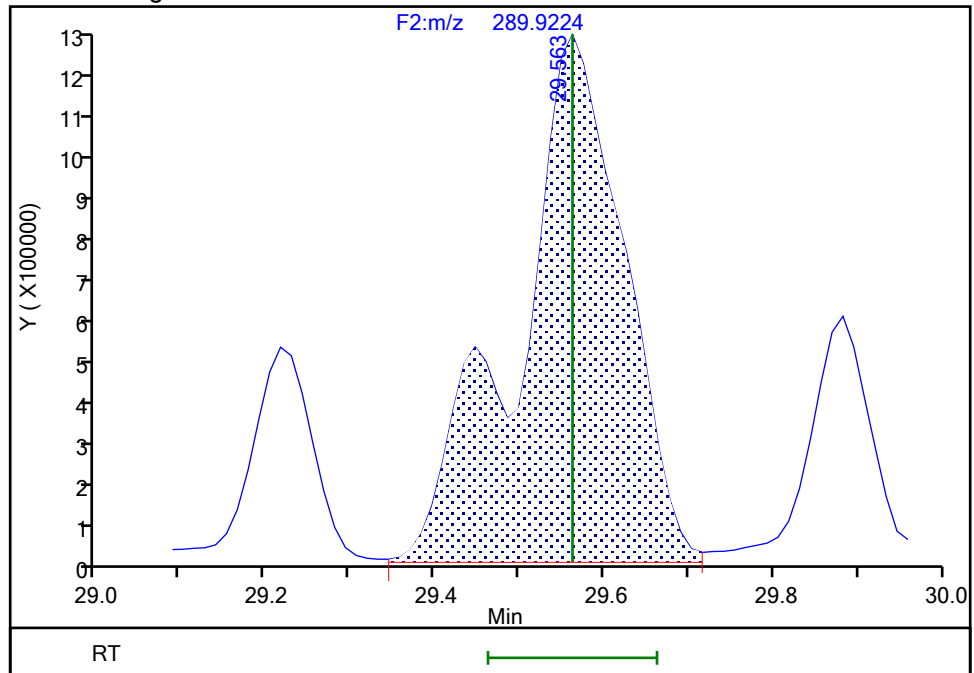
RT: 29.56  
Area: 8639683  
Amount: 171.0726  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.56  
Area: 10773903  
Amount: 192.4208  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

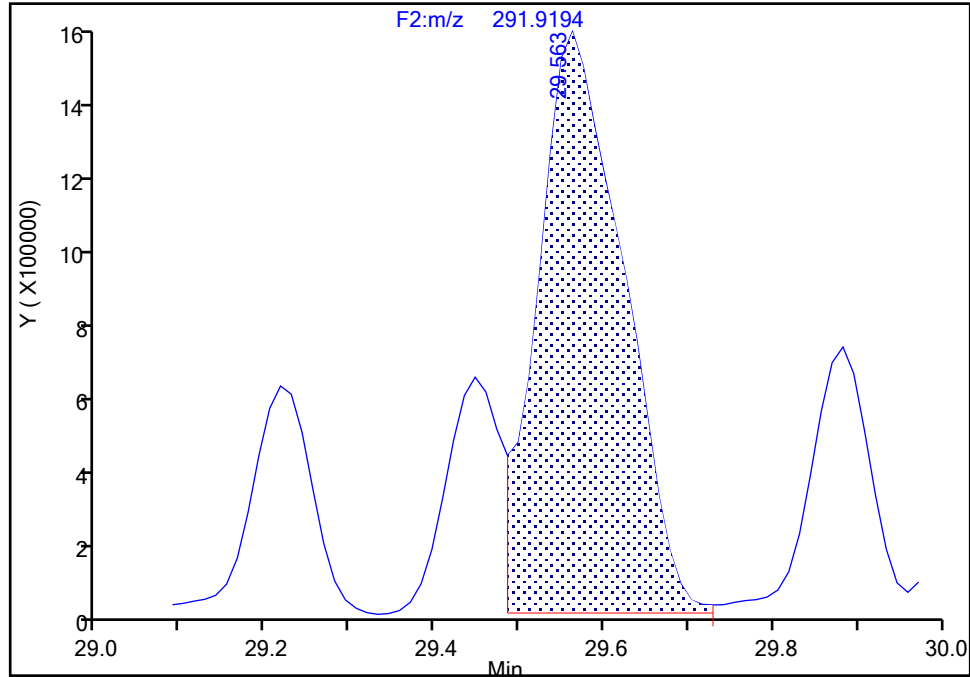
Detector F2(21.81 :35.54 )

**PCB-61/70/74/76, CAS: STL01808**

Signal: 2

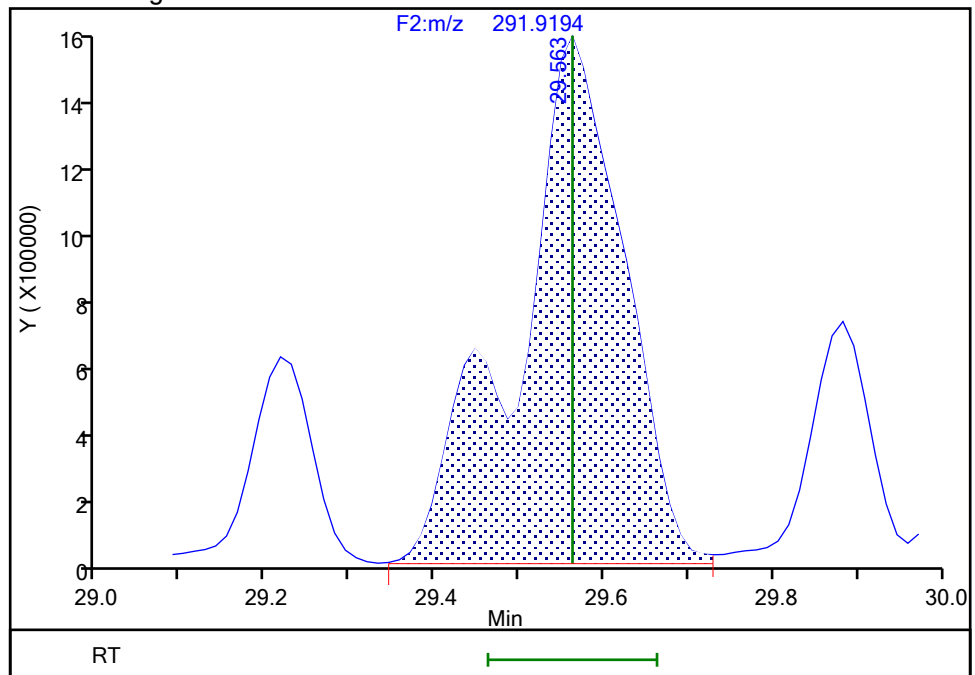
RT: 29.56  
Area: 10760126  
Amount: 171.0726  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.56  
Area: 13481106  
Amount: 192.4208  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:25:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

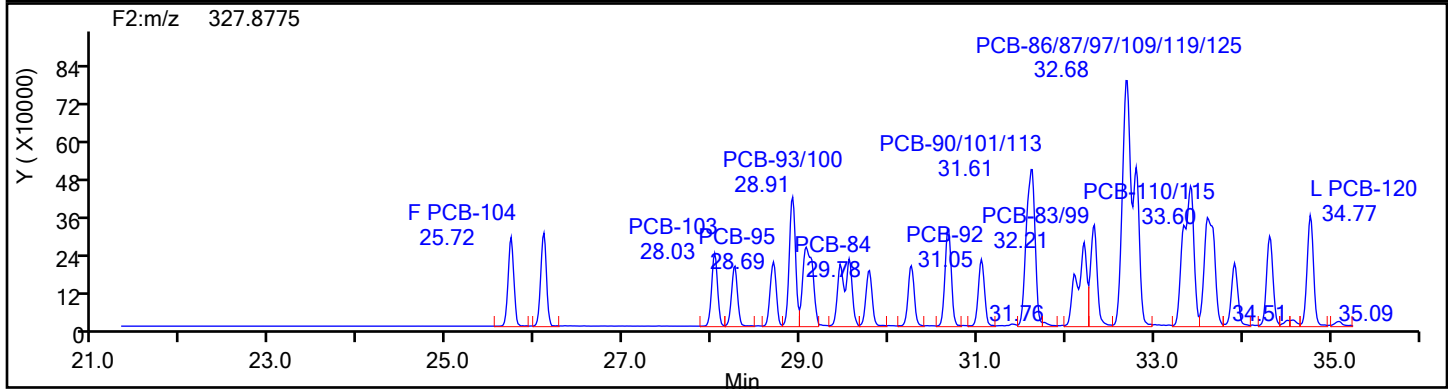
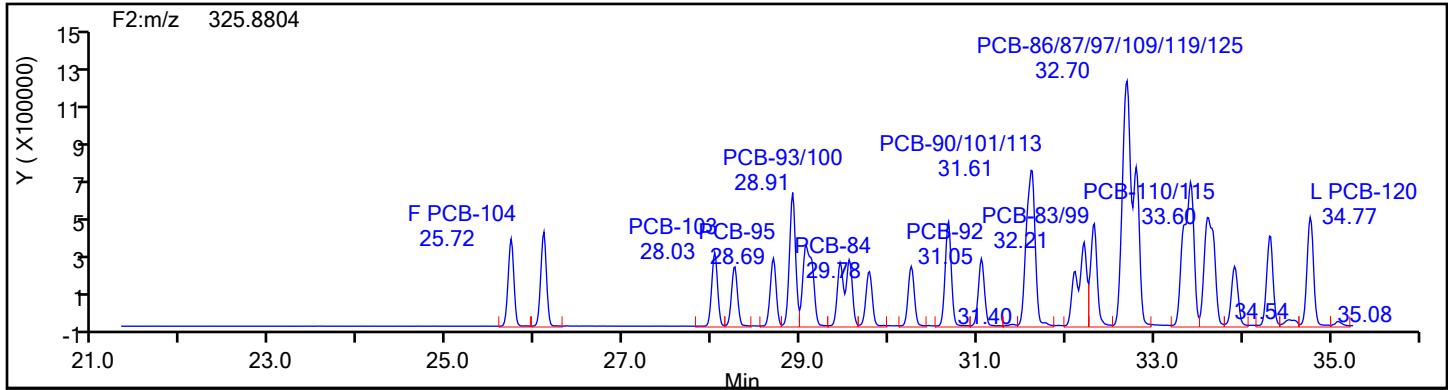
Worklist#: 87130

Sample Line#: 4

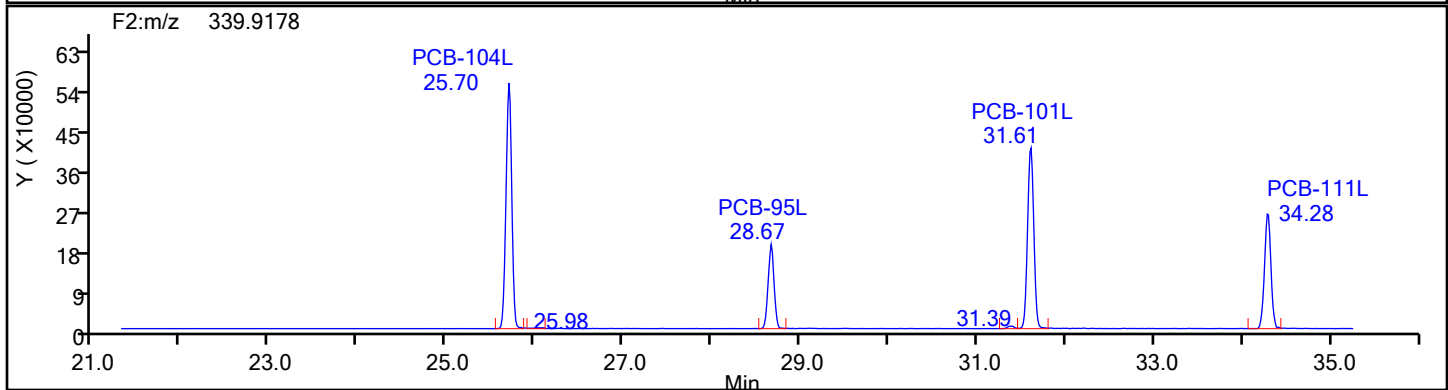
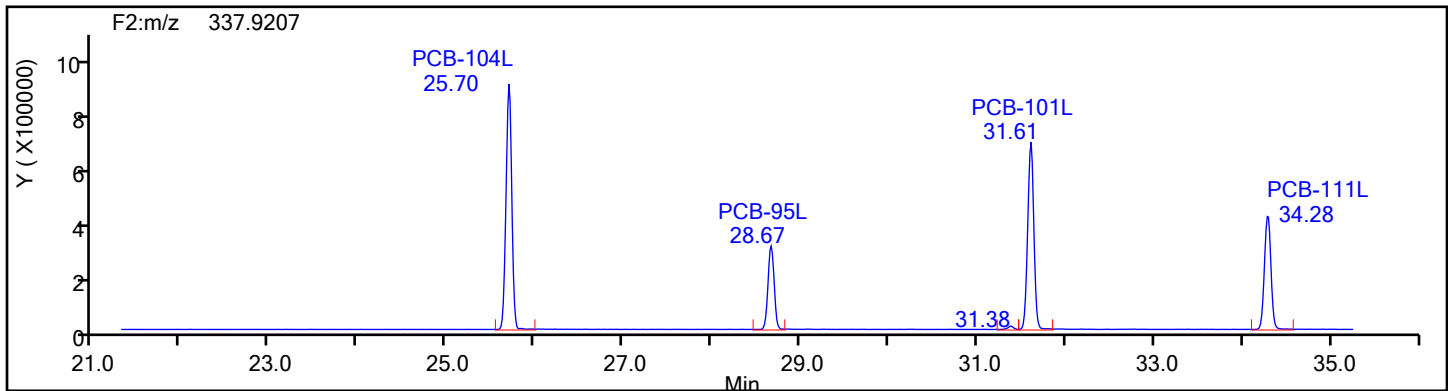
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

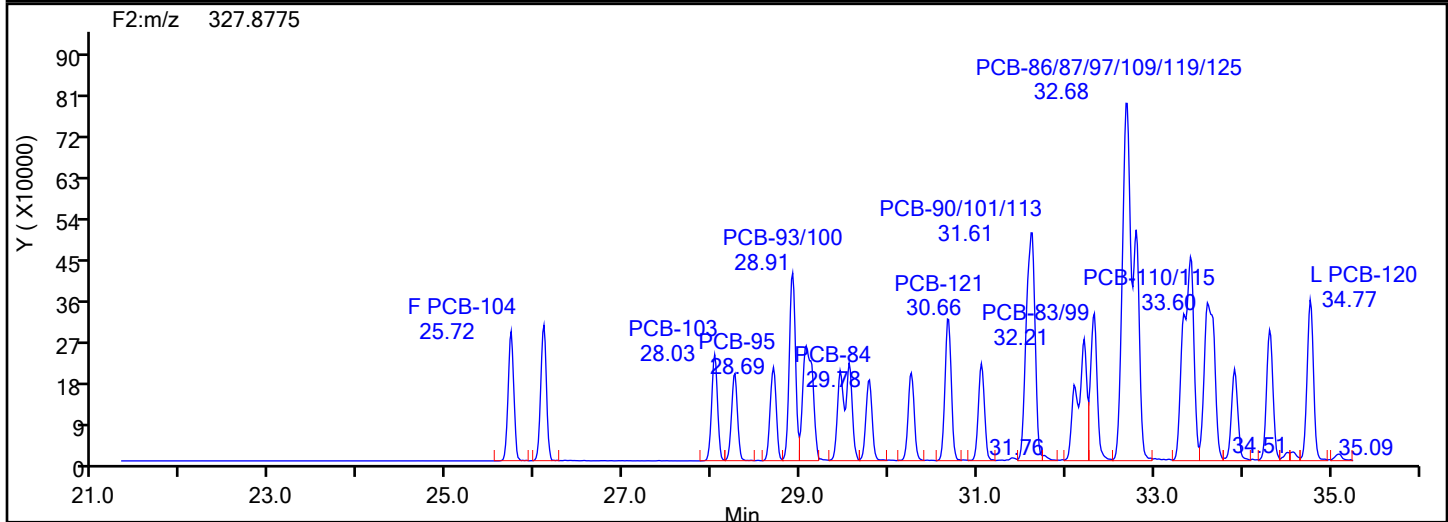
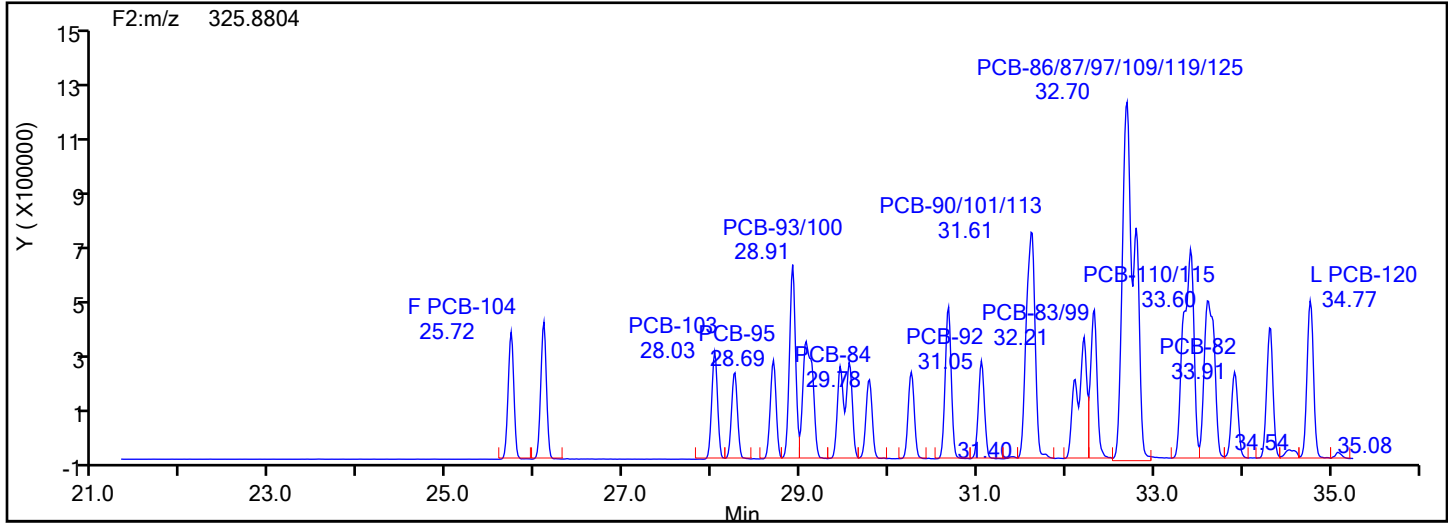


## PePCB F2 Standards

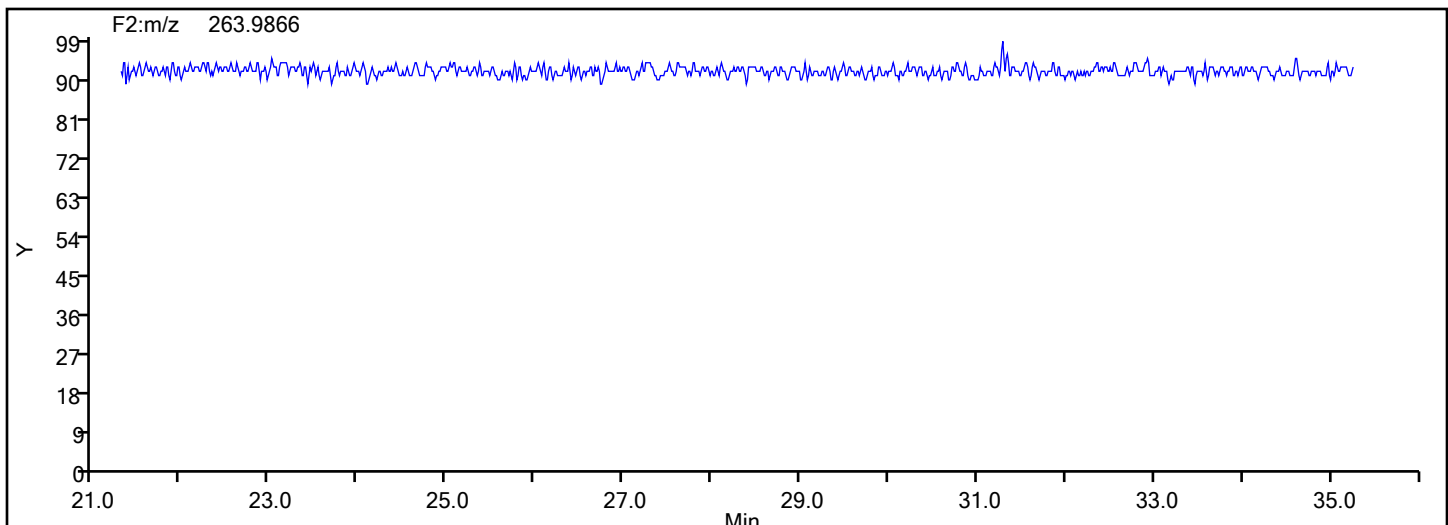


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

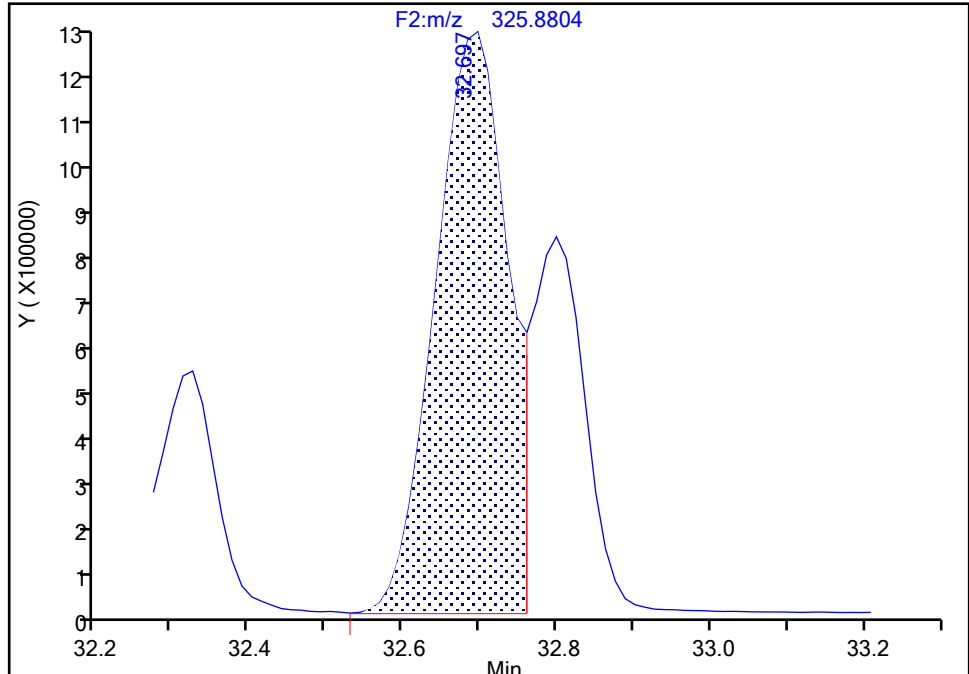
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

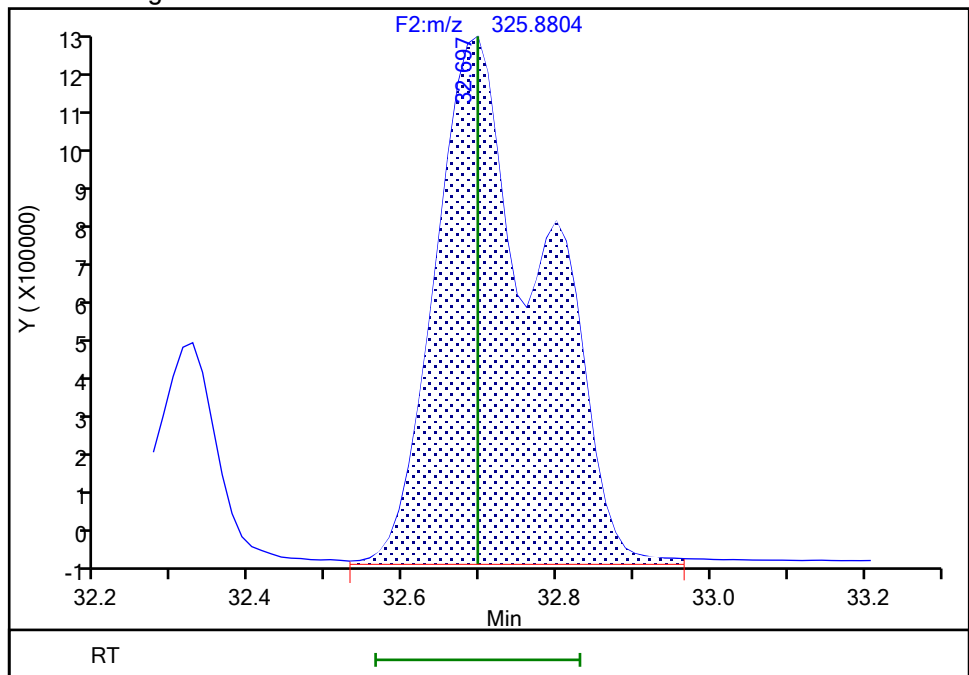
RT: 32.70  
Area: 8077860  
Amount: 221.5580  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.70  
Area: 11933595  
Amount: 286.9480  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:26:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

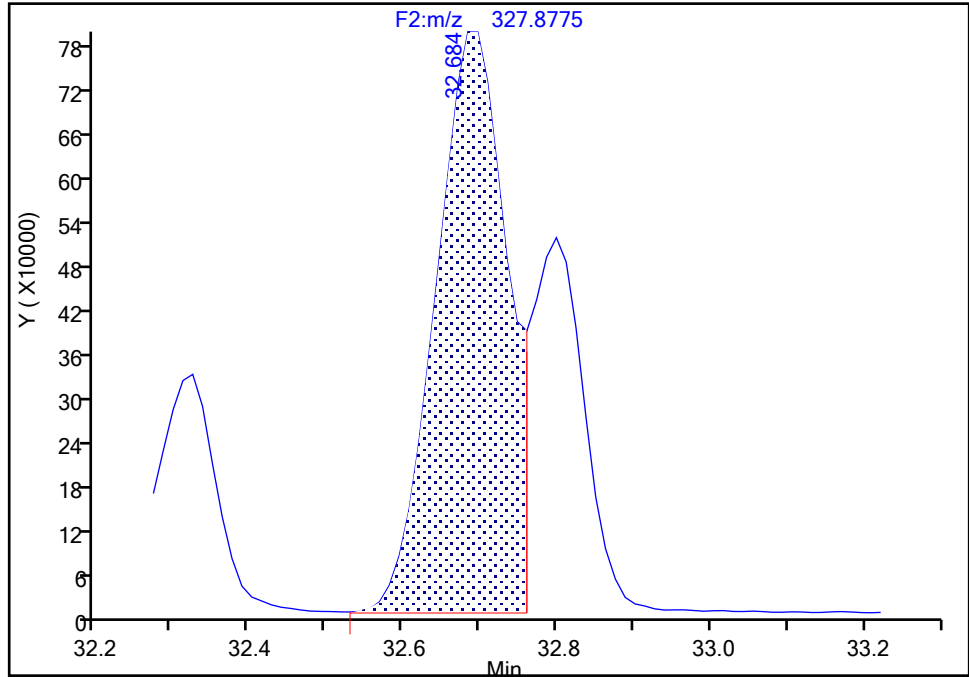
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

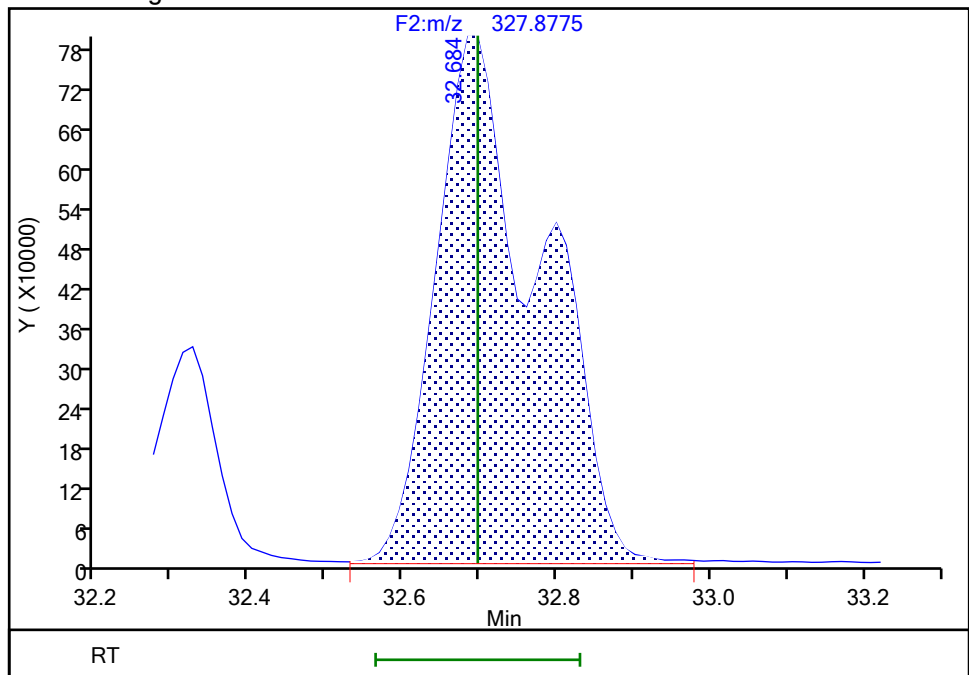
RT: 32.68  
Area: 5097479  
Amount: 221.5580  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.68  
Area: 7465580  
Amount: 286.9480  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:27:06 -04:00:00 (UTC)

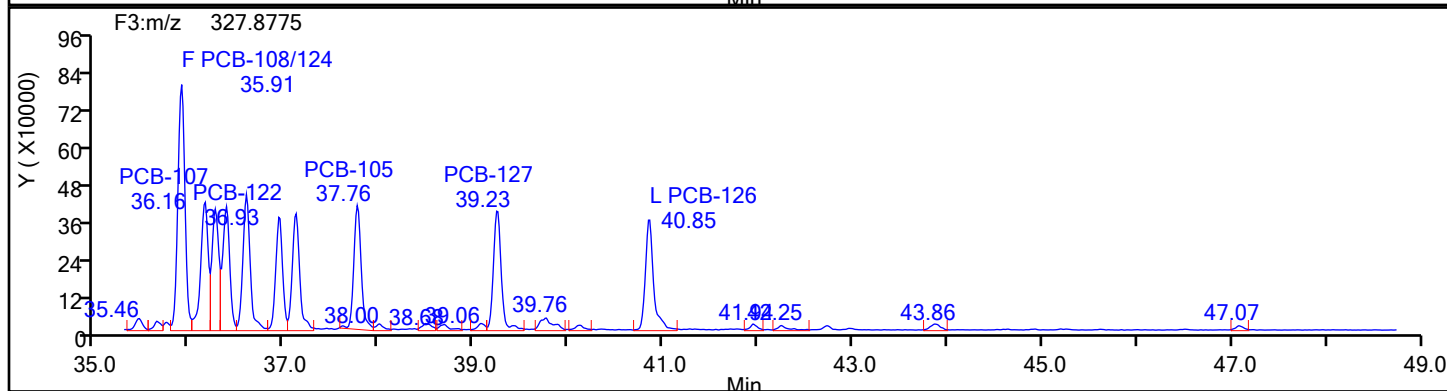
Audit Action: Manually Integrated

Audit Reason: Baseline

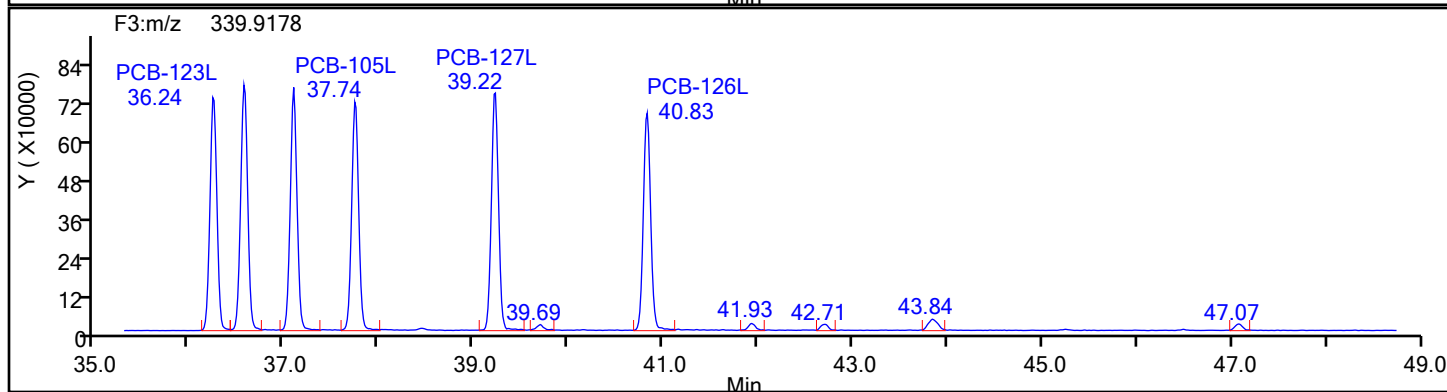
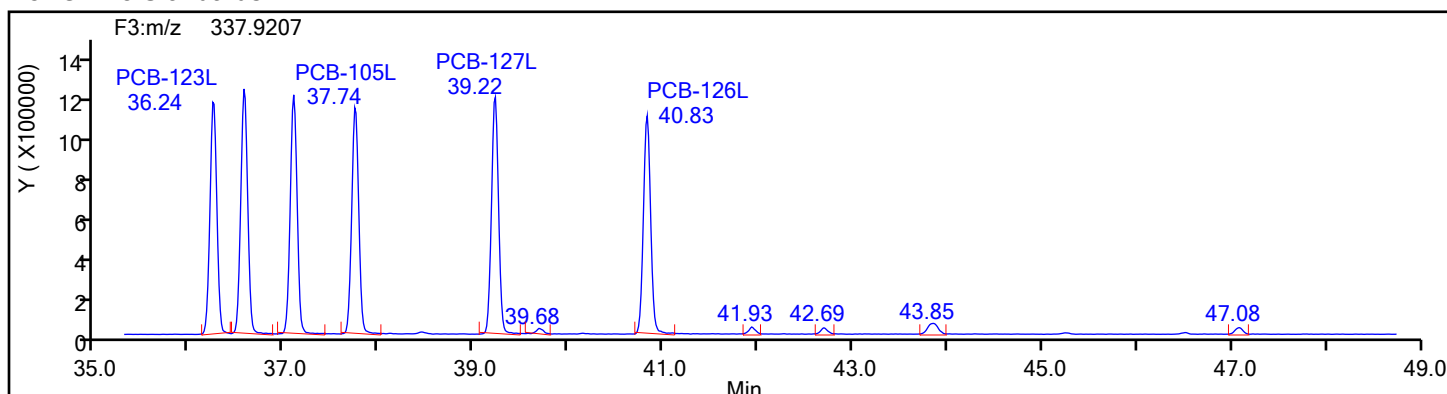
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9/6/2024  
3:53:39 PM

Column Dia: 0.25 mm



### PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

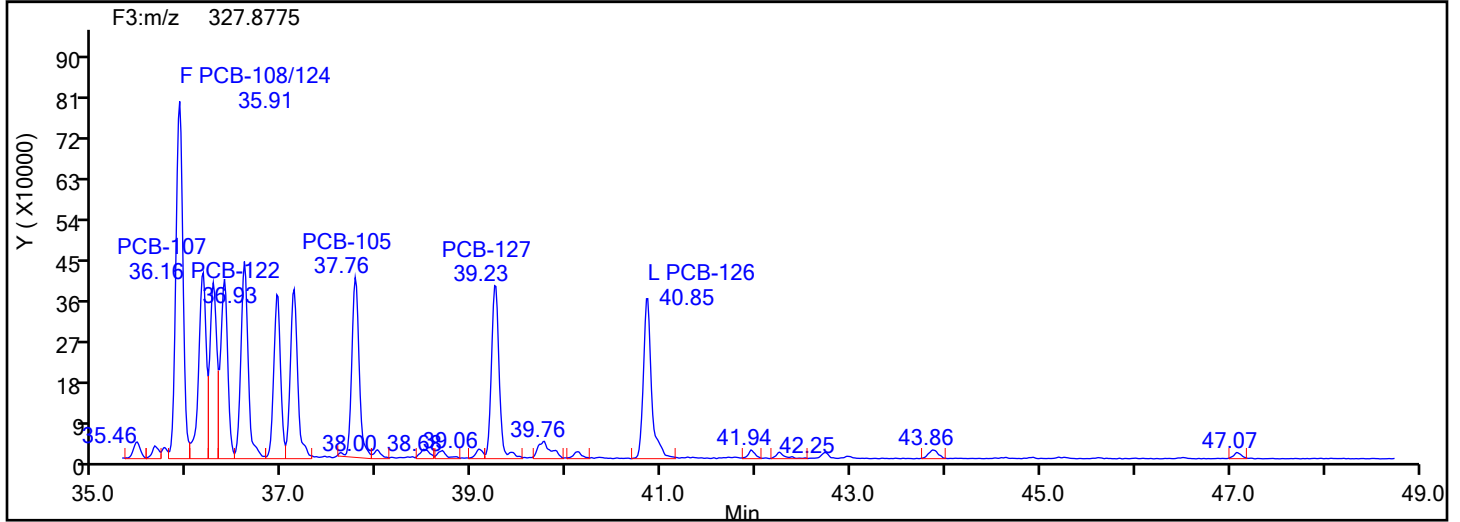
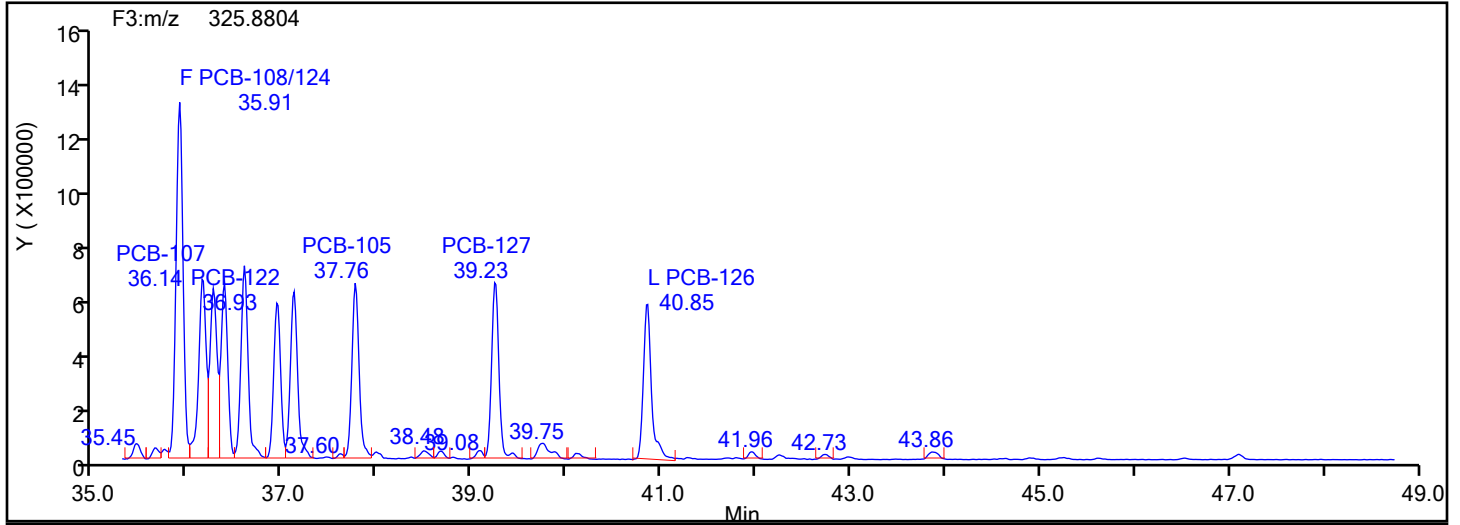
Worklist#: 87130

Sample Line#: 4

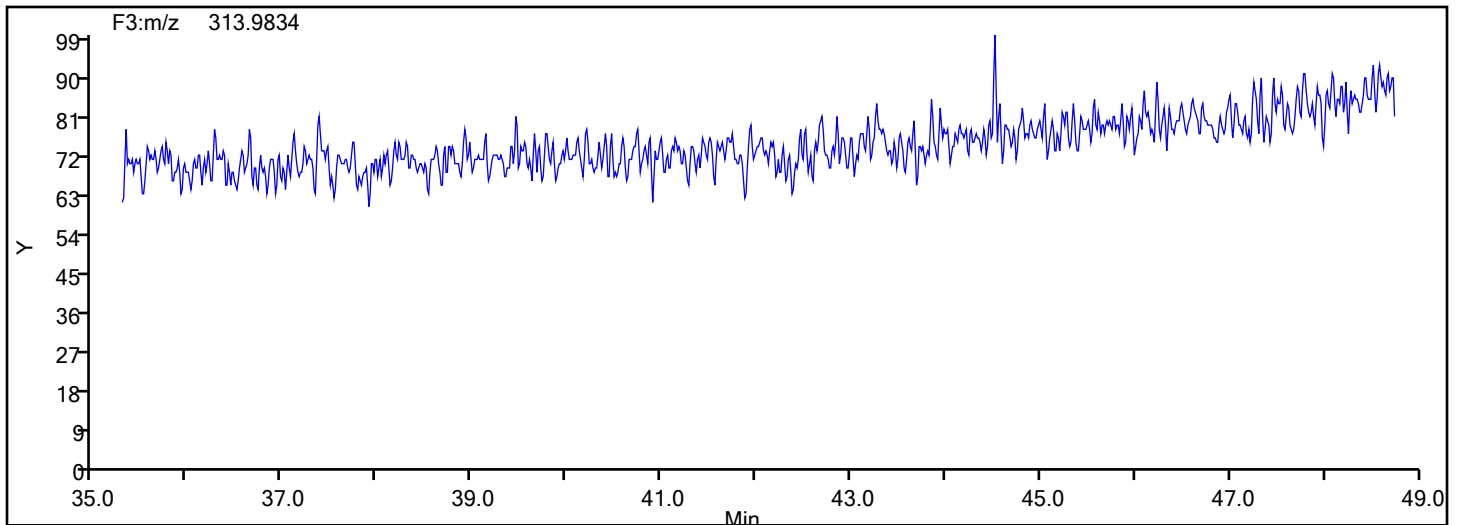
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

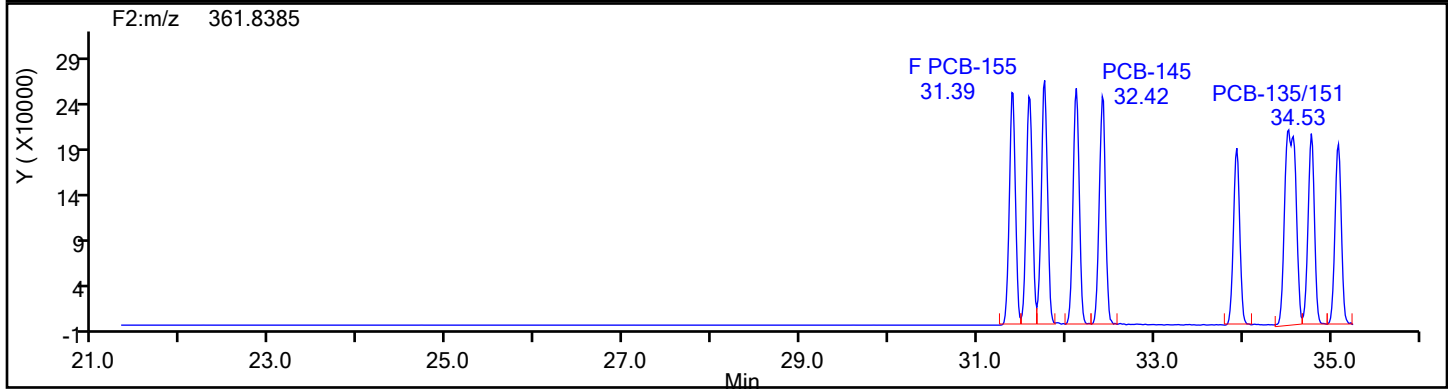
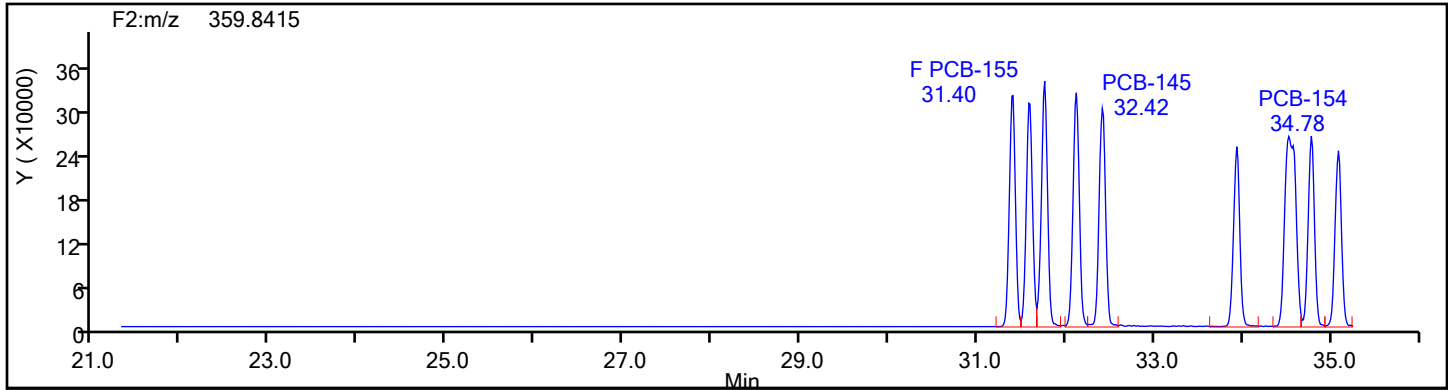


## PePCB F3 Lock Mass

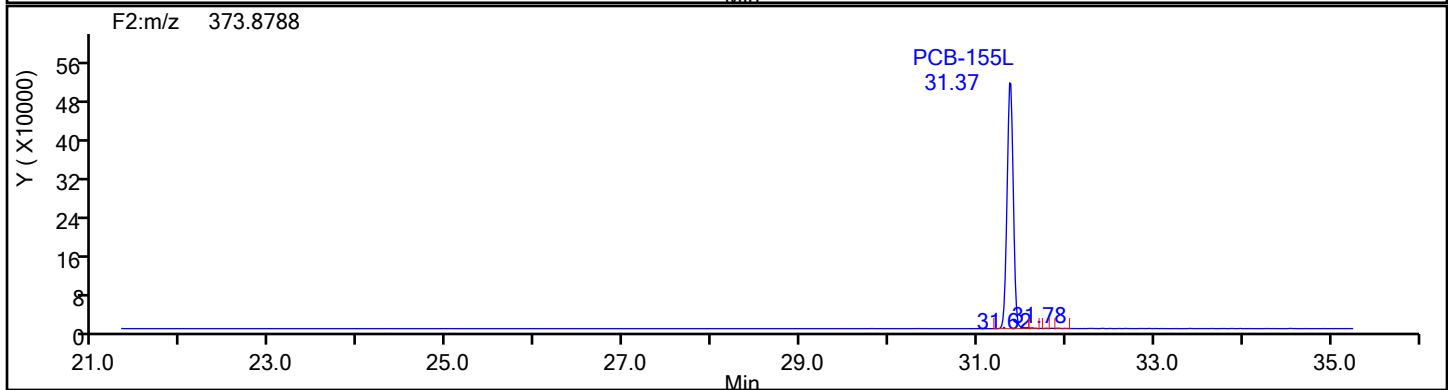
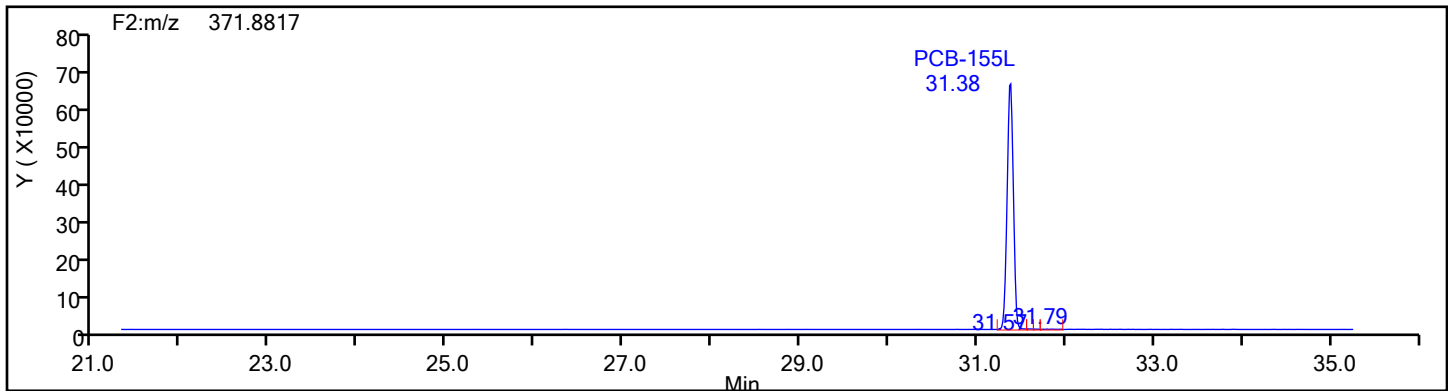


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

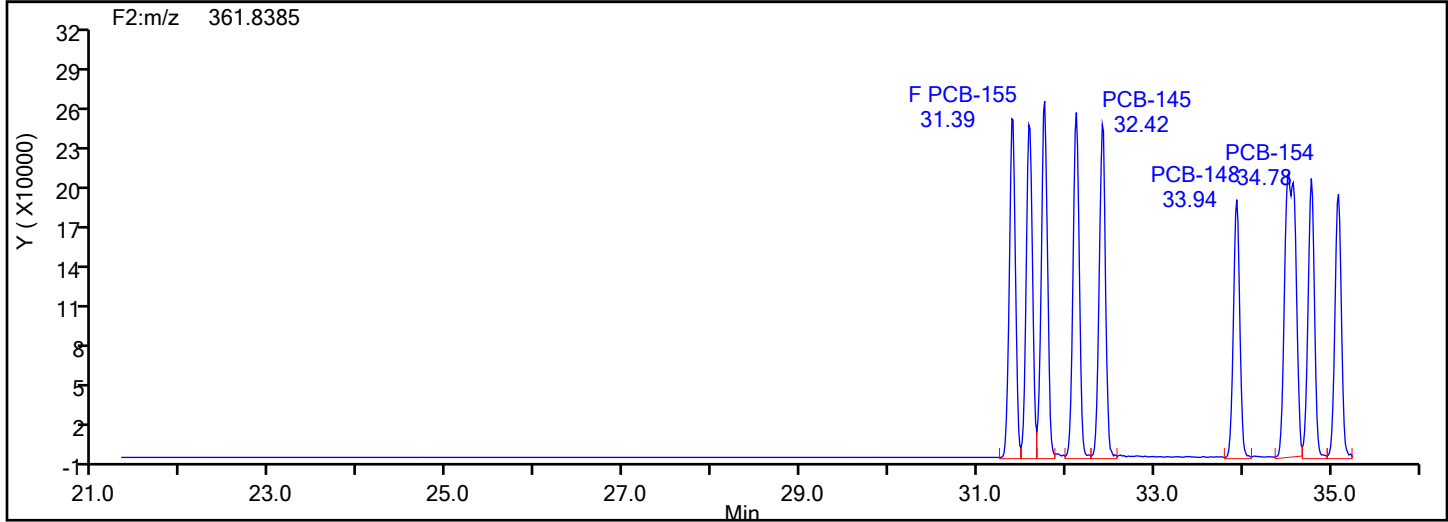
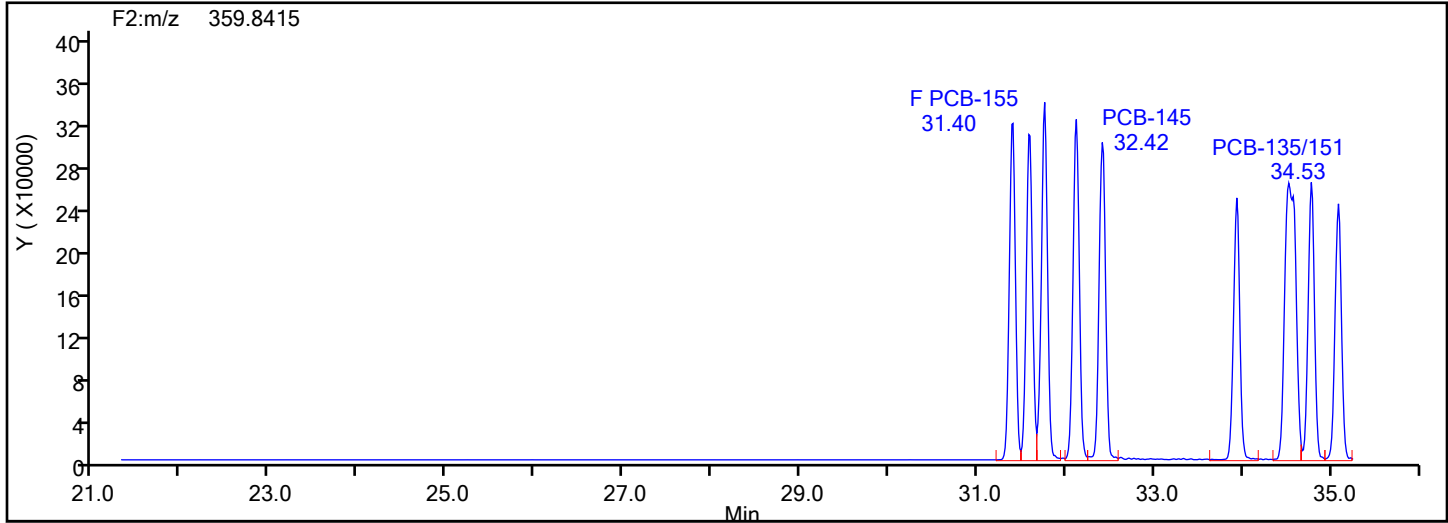


## HxPCB F2 Standards

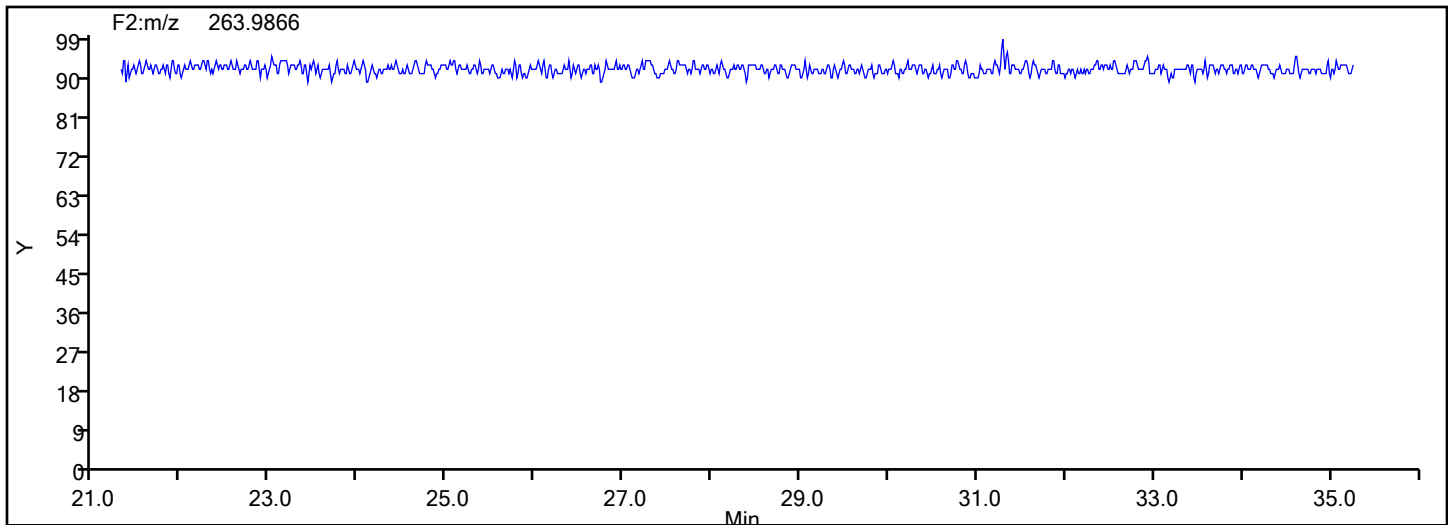


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

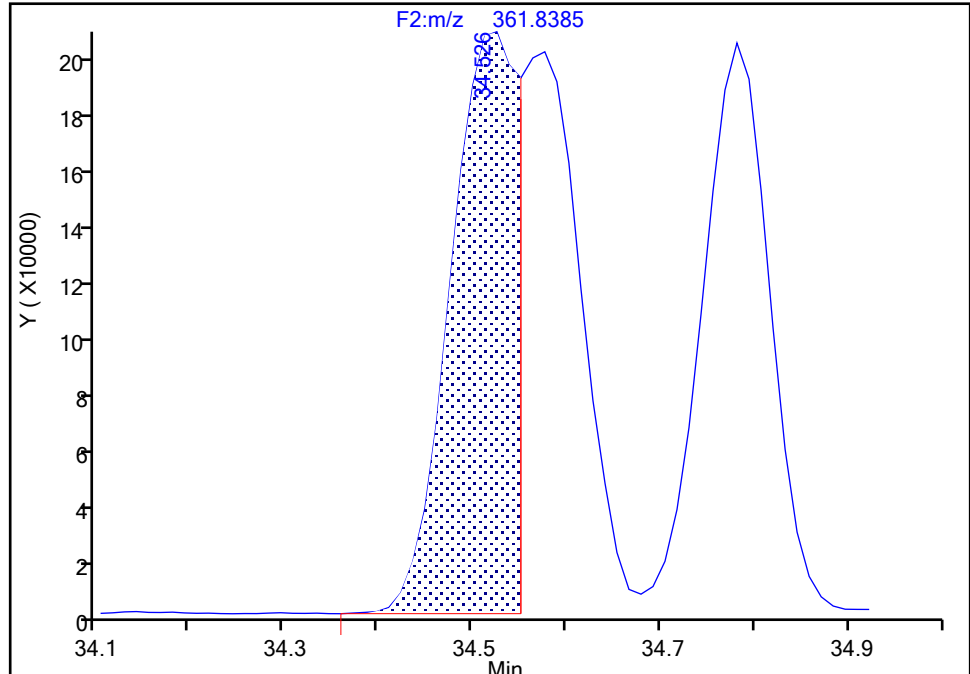
Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 2

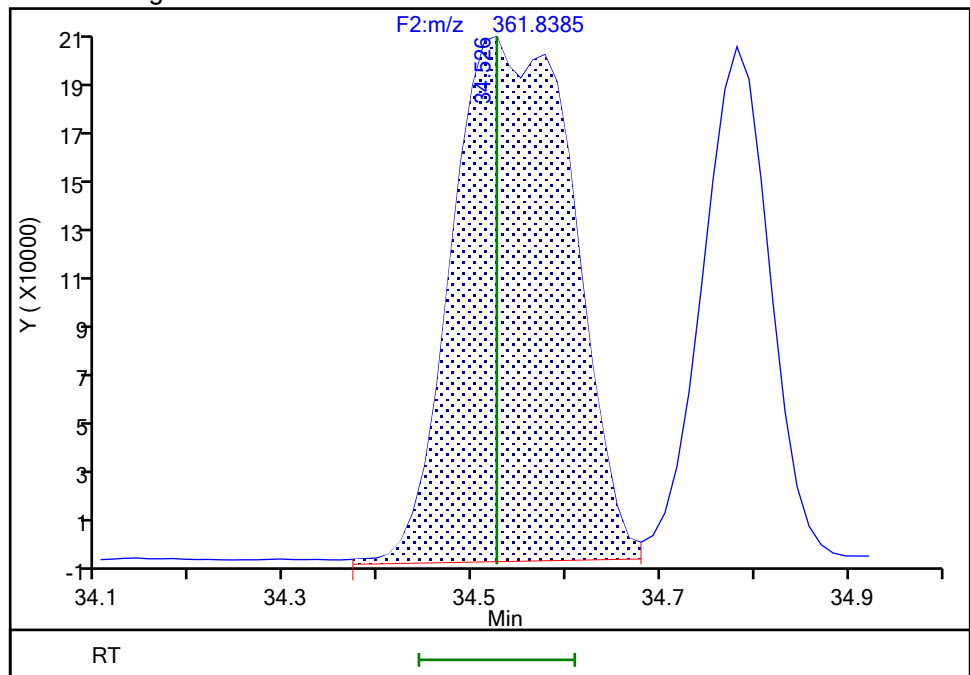
RT: 34.53  
Area: 1006492  
Amount: 89.546723  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.53  
Area: 1875309  
Amount: 99.842500  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:54:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

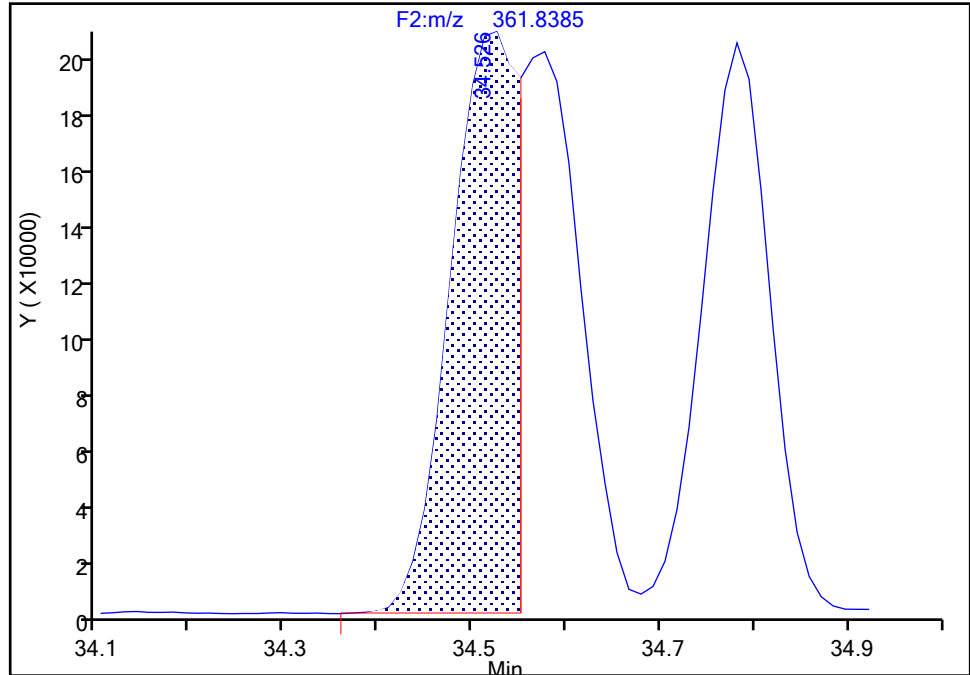
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 2

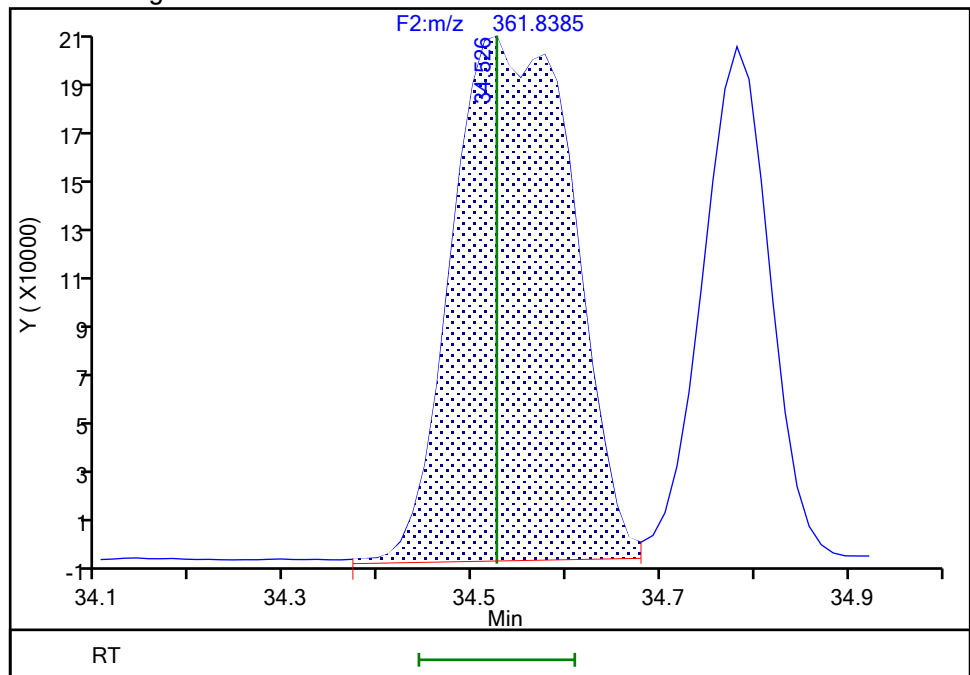
RT: 34.53  
Area: 1006492  
Amount: 89.546723  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.53  
Area: 1875309  
Amount: 99.842500  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:54:17 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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BASFHWC-F-2024-04296  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

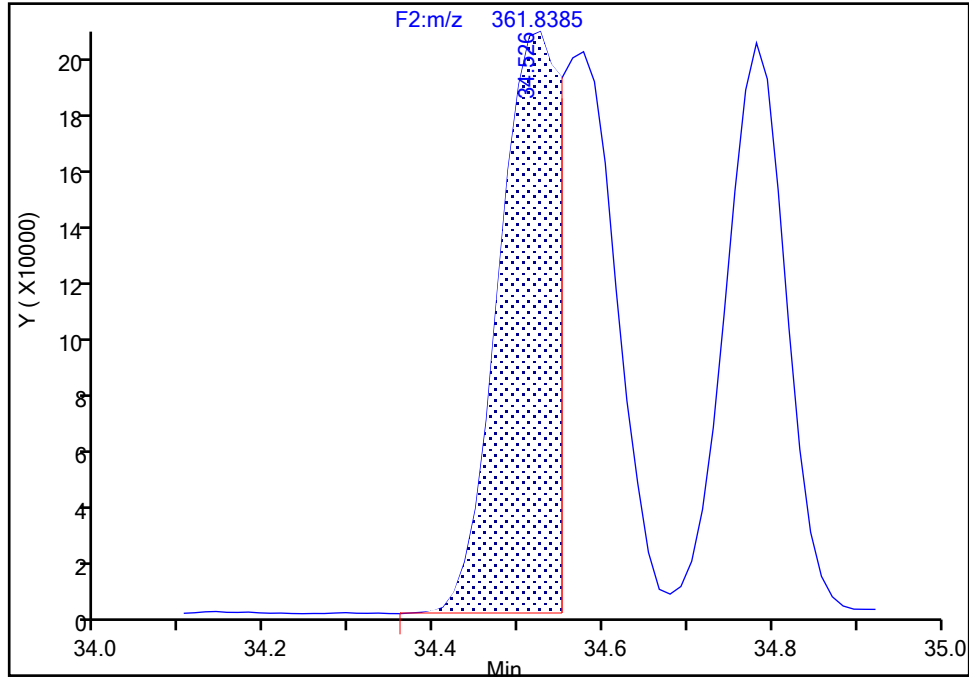
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 3

RT: 34.53  
Area: 3323365  
Amount: 89.546723  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 34.53  
Area: 4192182  
Amount: 99.842500  
Amount Units: pg/ul

Reviewer: V4XA, 31-May-2024 20:54:17 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

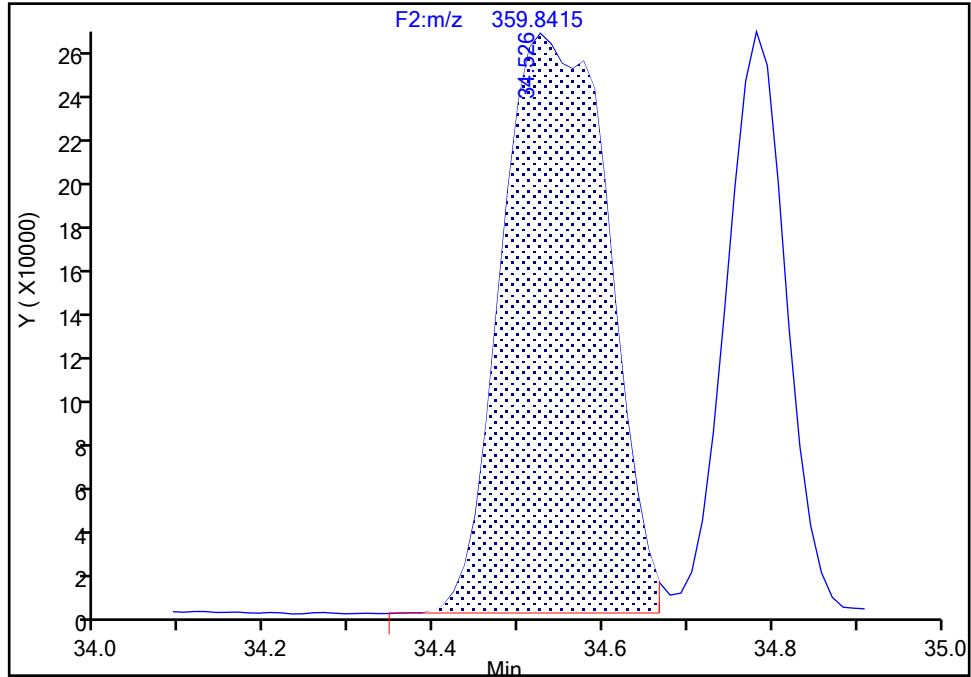
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 1

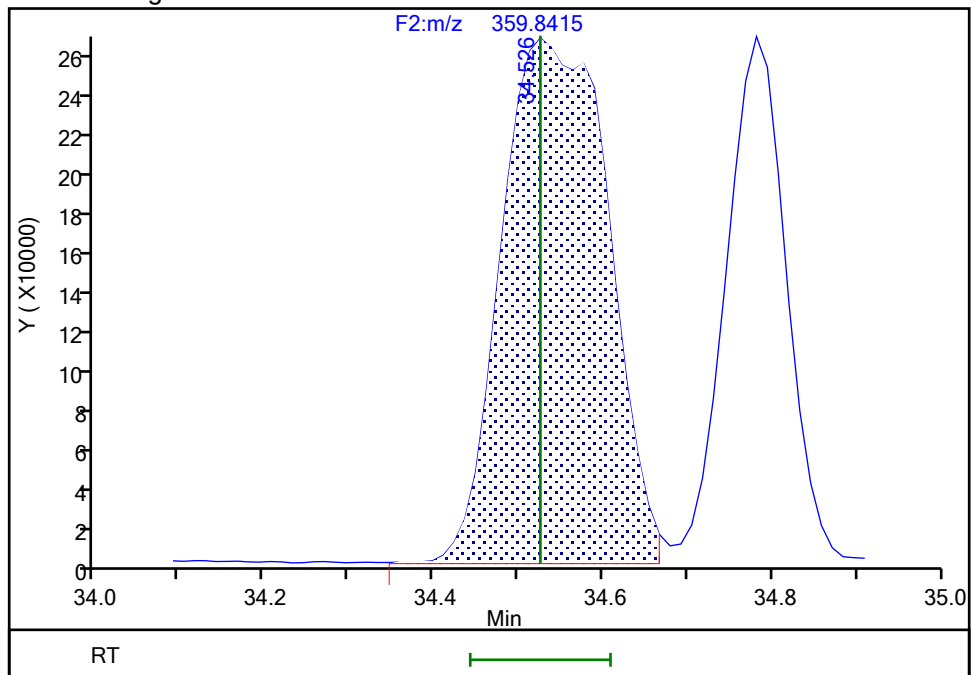
RT: 34.53  
Area: 2316873  
Amount: 89.546723  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.53  
Area: 2316873  
Amount: 99.842500  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 20:54:19 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

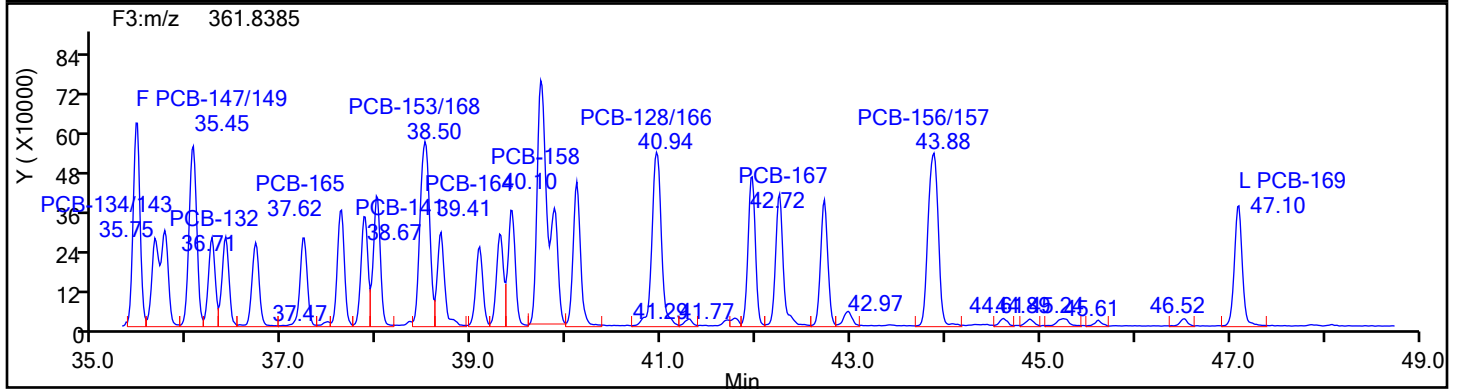
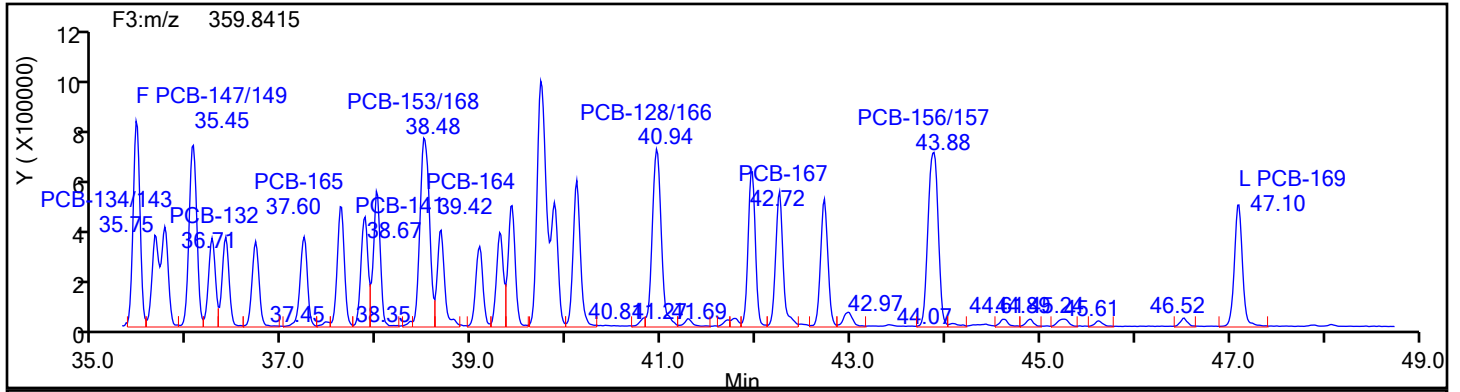
Worklist#: 87130

Sample Line#: 4

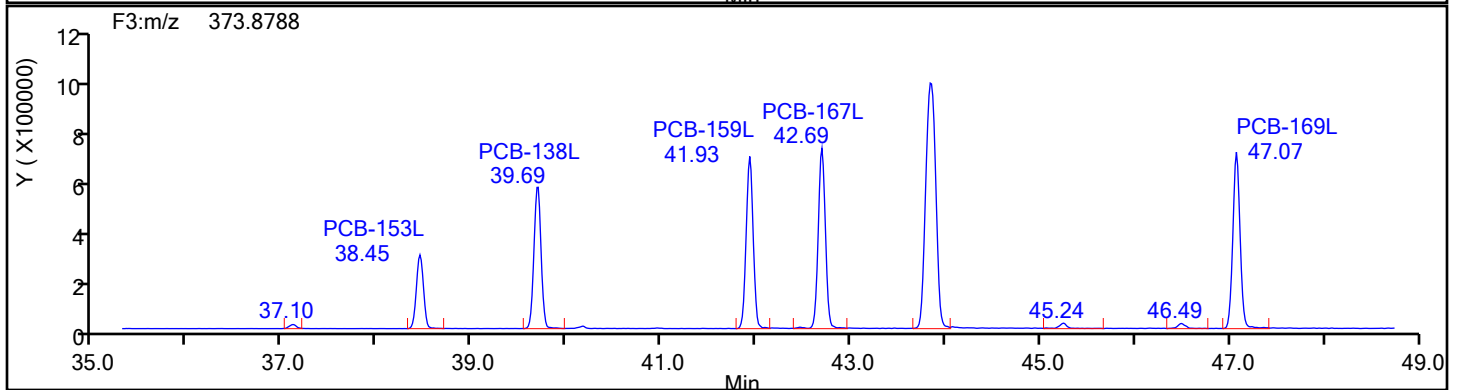
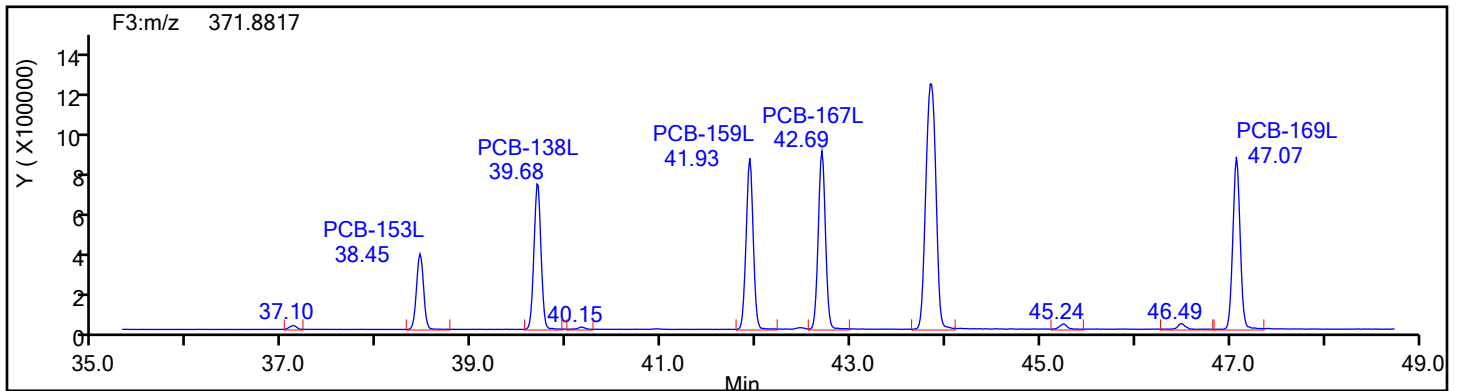
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

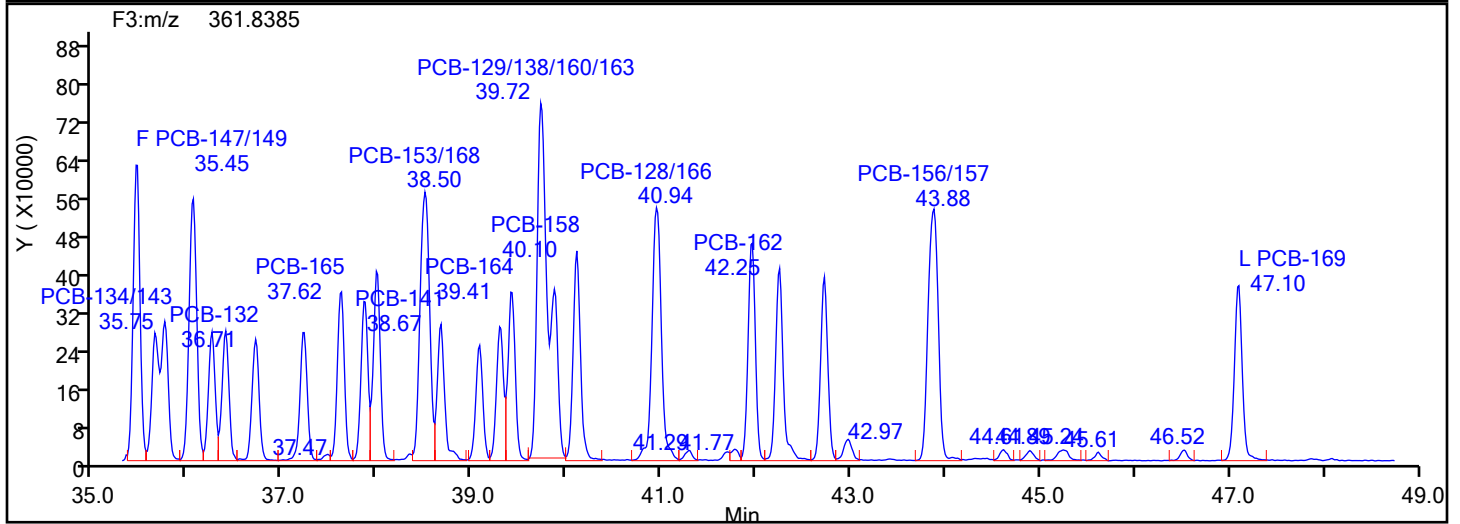
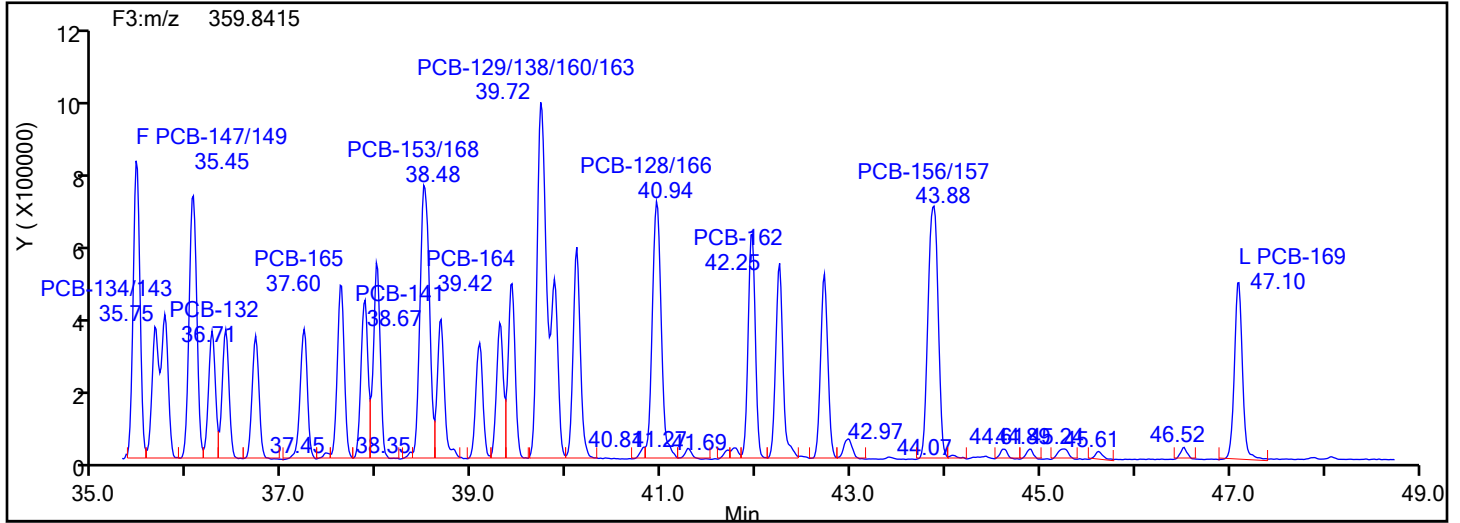
Worklist#: 87130

Sample Line#: 4

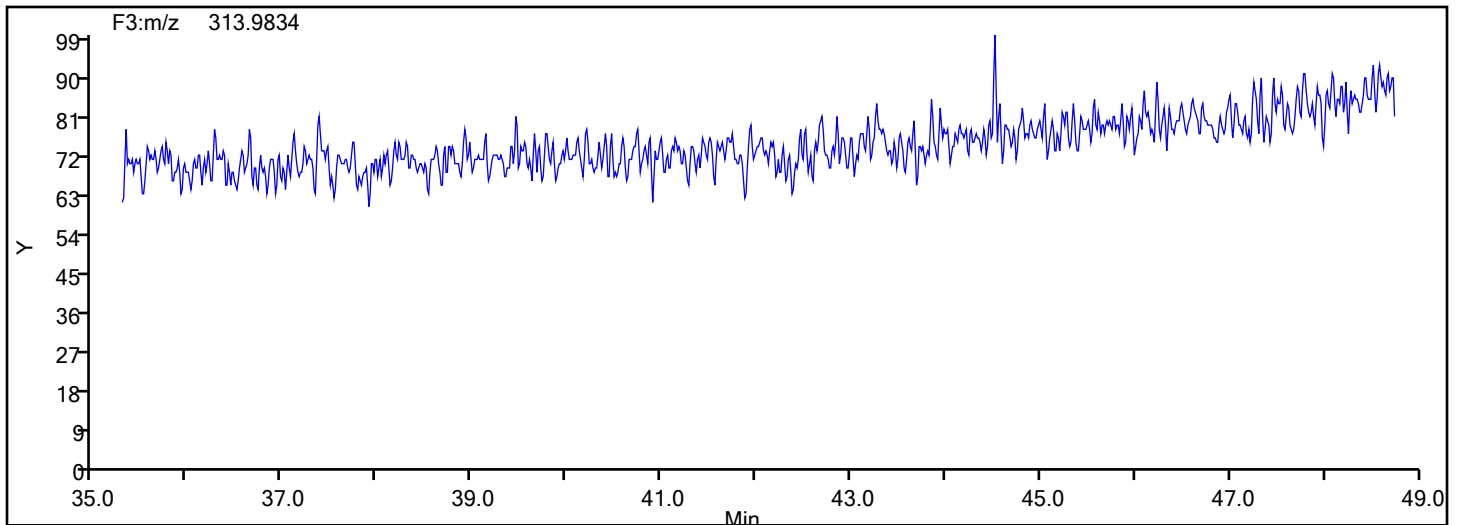
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

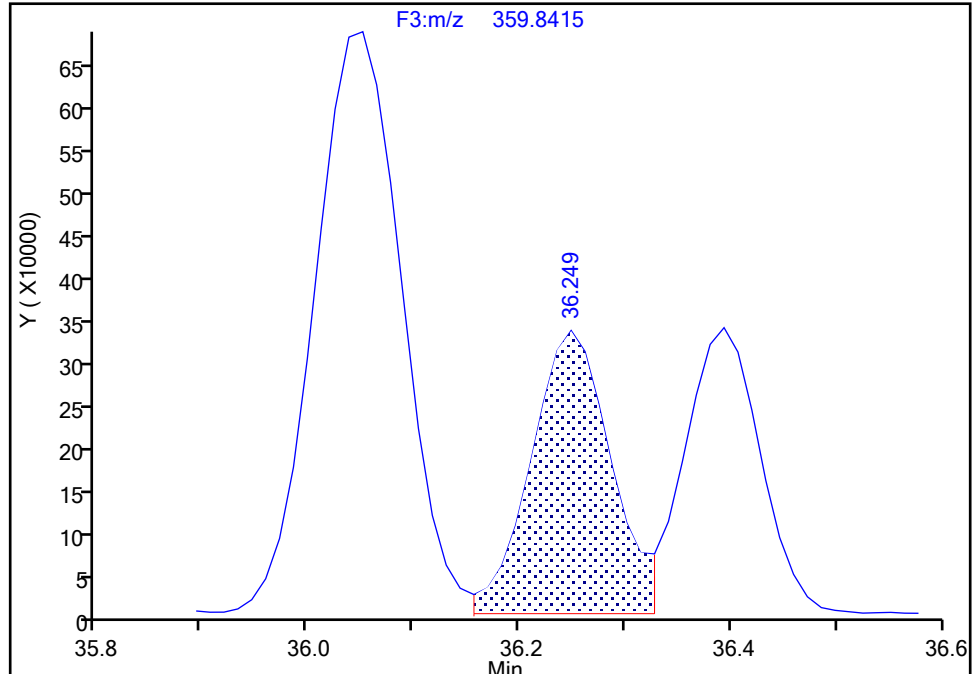
Detector F3(35.64 :49.10 )

**PCB-131, CAS: 61798-70-7**

Signal: 1

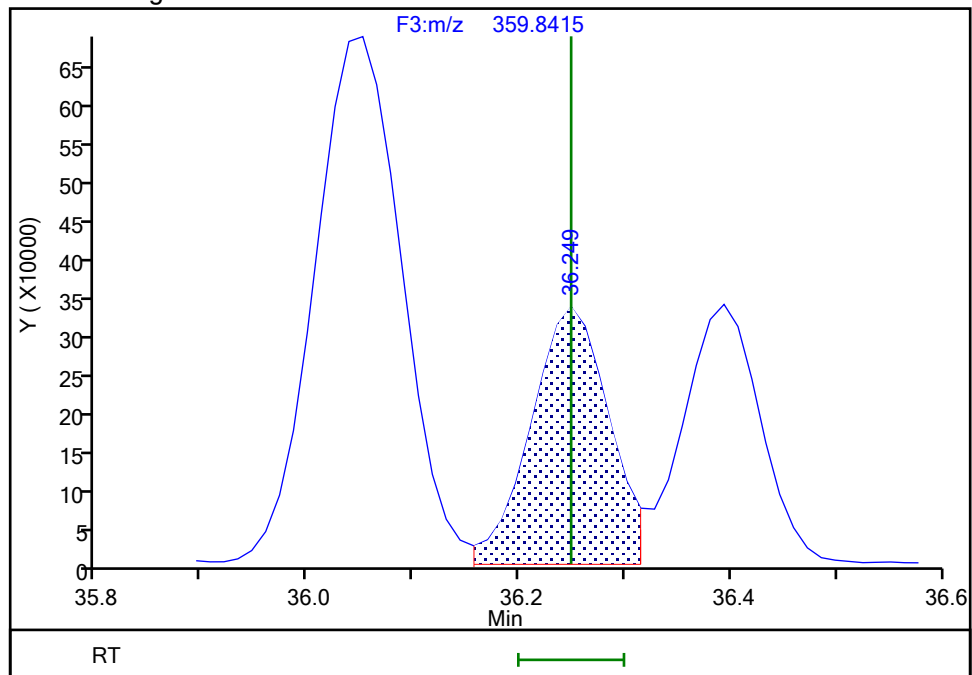
RT: 36.25  
Area: 1750783  
Amount: 48.362613  
Amount Units: pg/ul

## Processing Integration Results



RT: 36.25  
Area: 1687175  
Amount: 49.486092  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:37:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

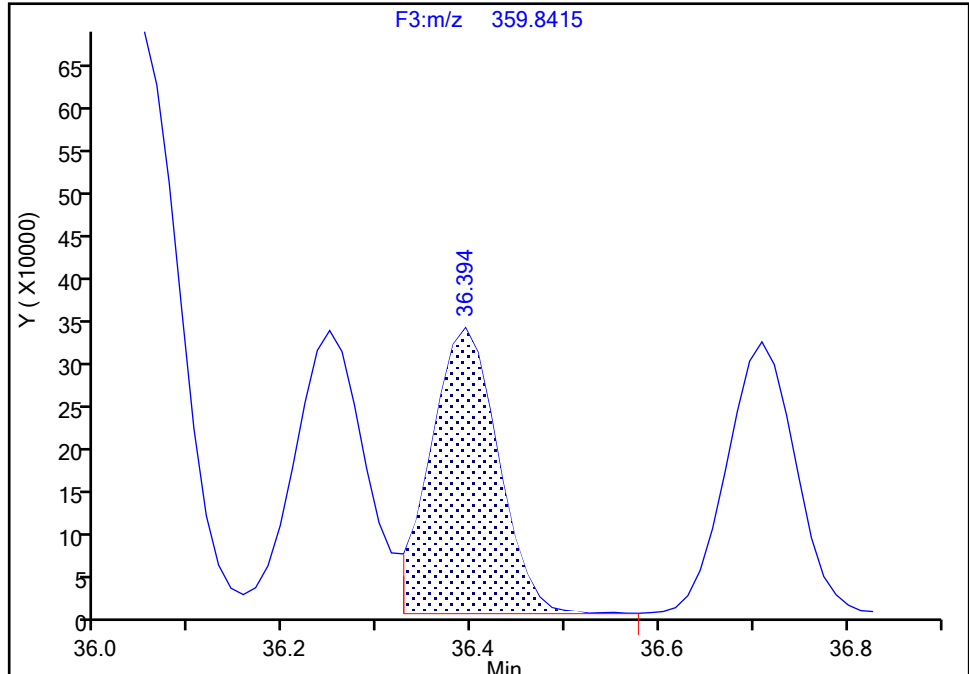
Detector F3(35.64 :49.10 )

**PCB-142, CAS: 41411-61-4**

Signal: 1

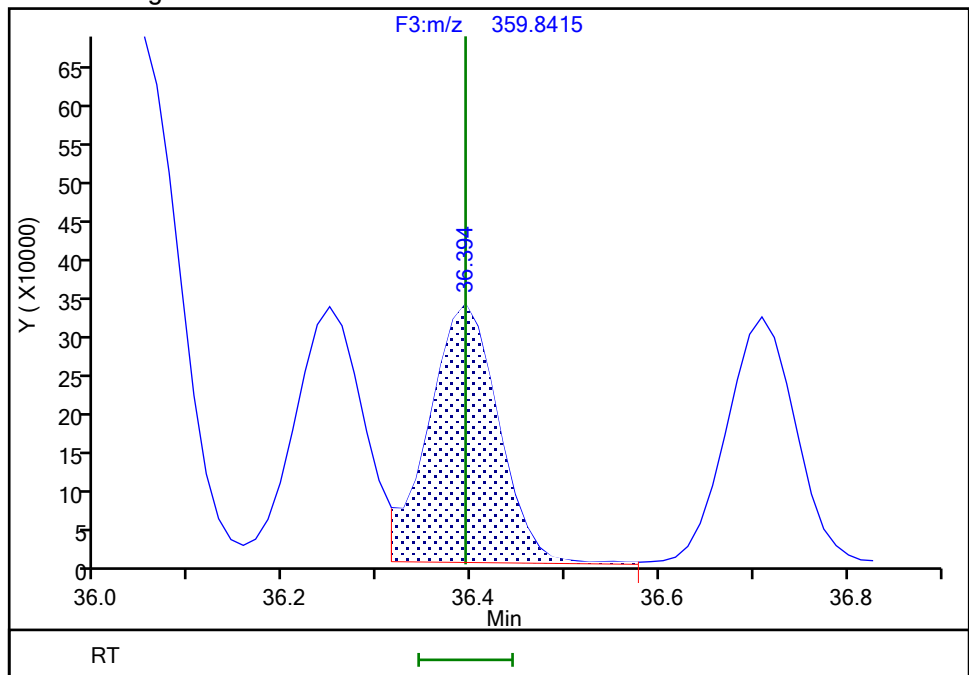
RT: 36.39  
Area: 1682262  
Amount: 49.938791  
Amount Units: pg/ul

## Processing Integration Results



RT: 36.39  
Area: 1733270  
Amount: 51.034948  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:37:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

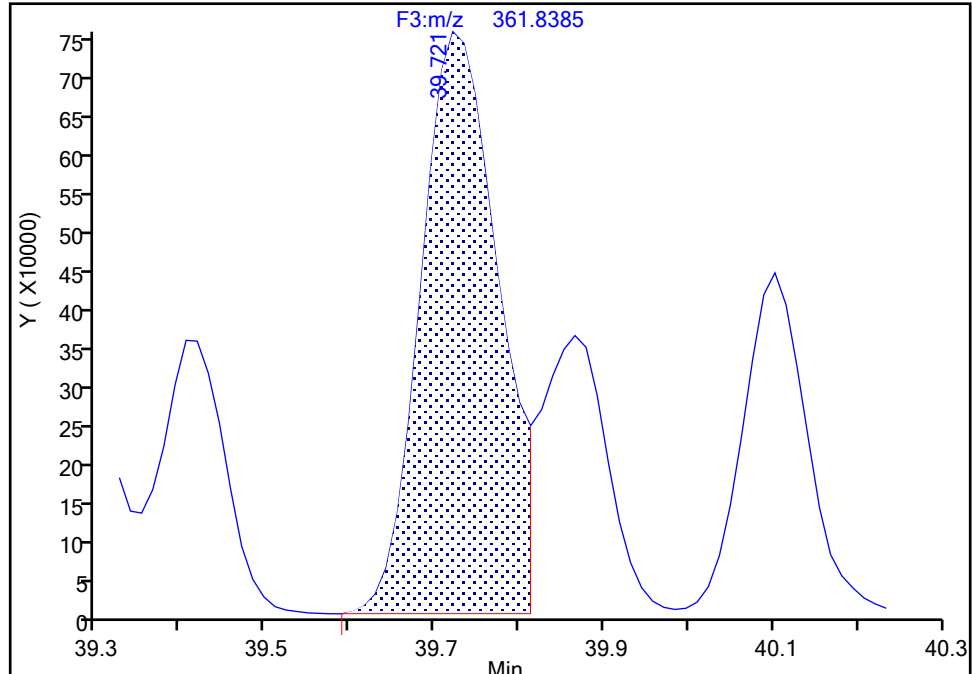
Detector F3(35.64 :49.10 )

**PCB-129/138/160/163, CAS: STL02296**

Signal: 2

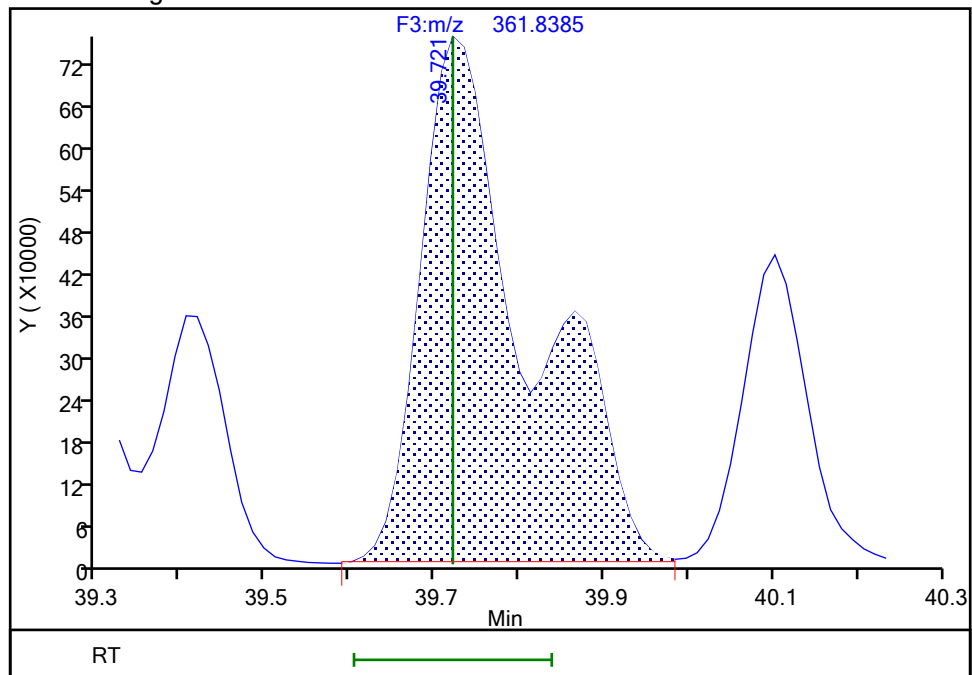
RT: 39.72  
Area: 4769883  
Amount: 156.8483  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.72  
Area: 6682218  
Amount: 196.3569  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:27:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#: 0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

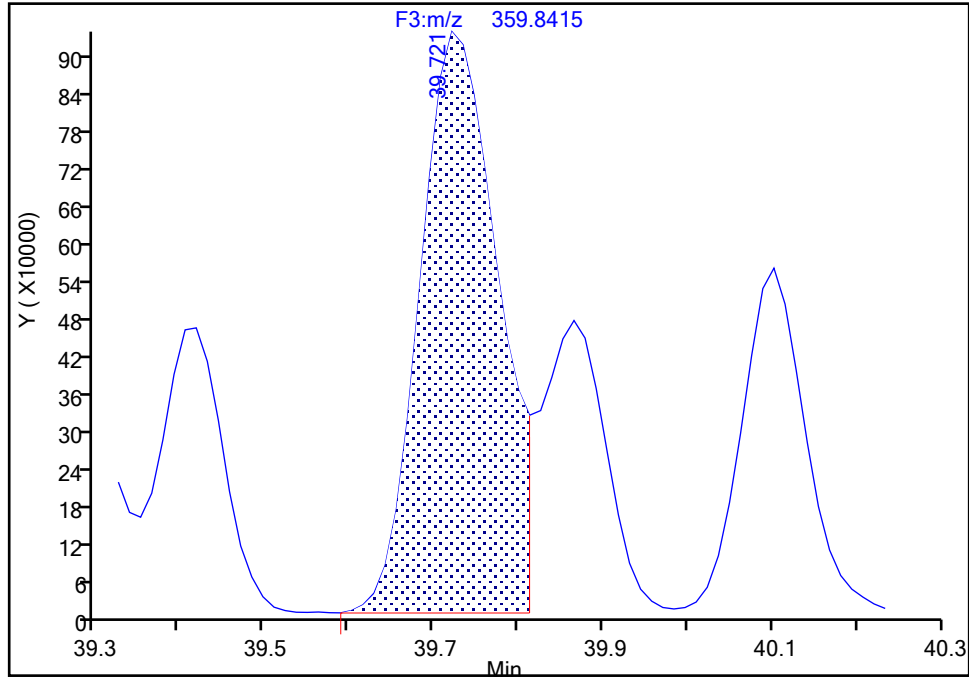
Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

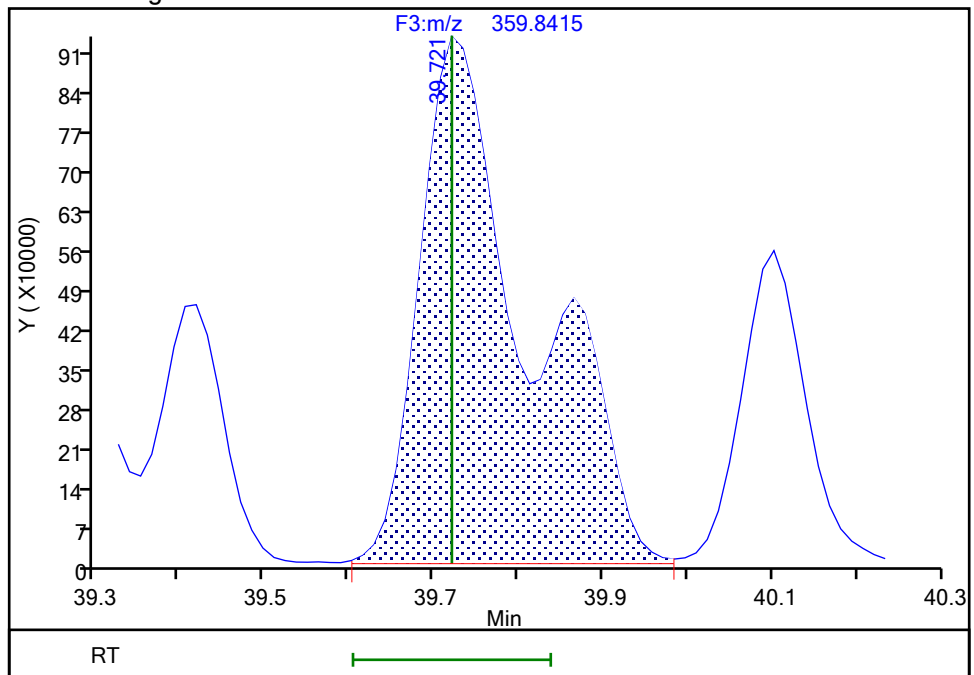
RT: 39.72  
Area: 5977025  
Amount: 156.8483  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.72  
Area: 8427795  
Amount: 196.3569  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:27:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04304  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

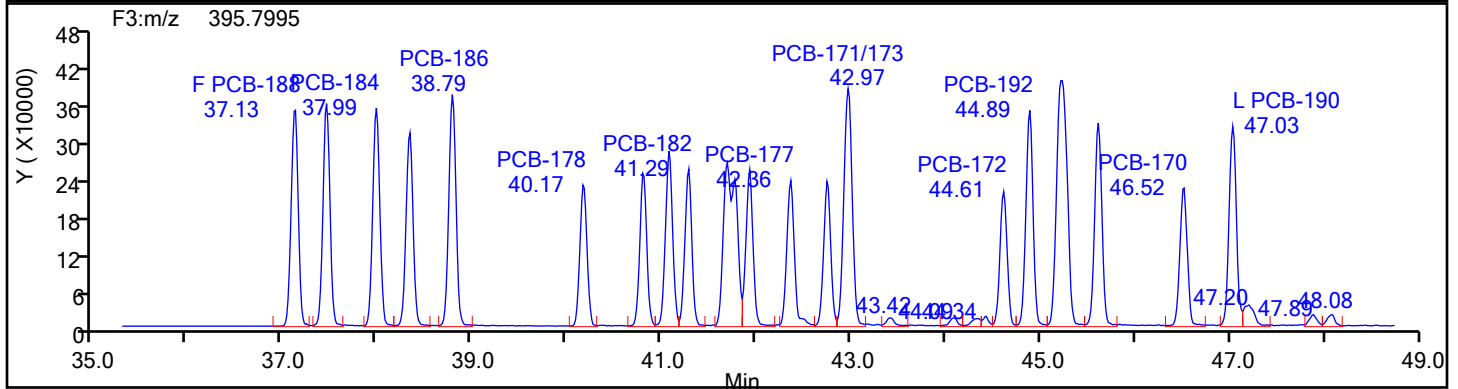
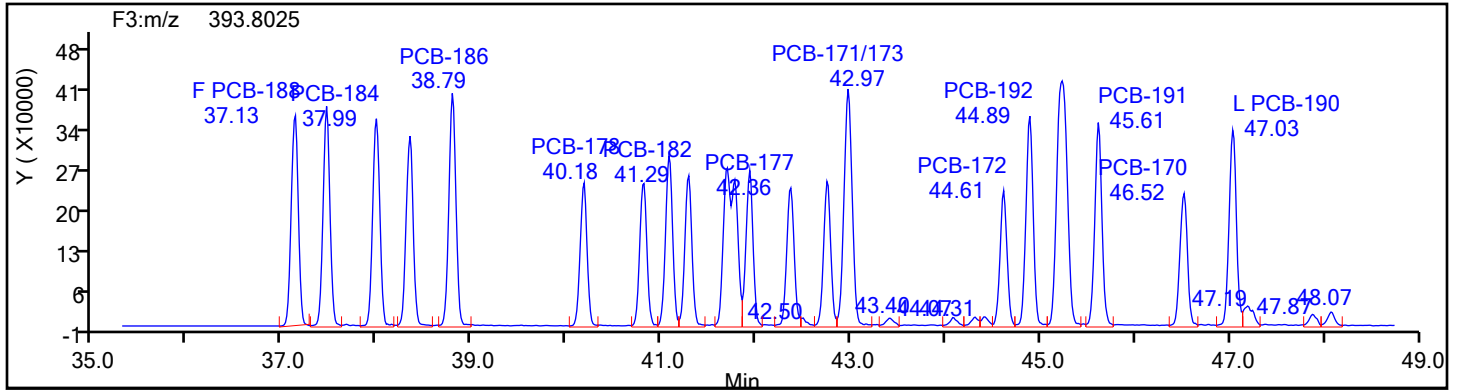
Worklist#: 87130

Sample Line#: 4

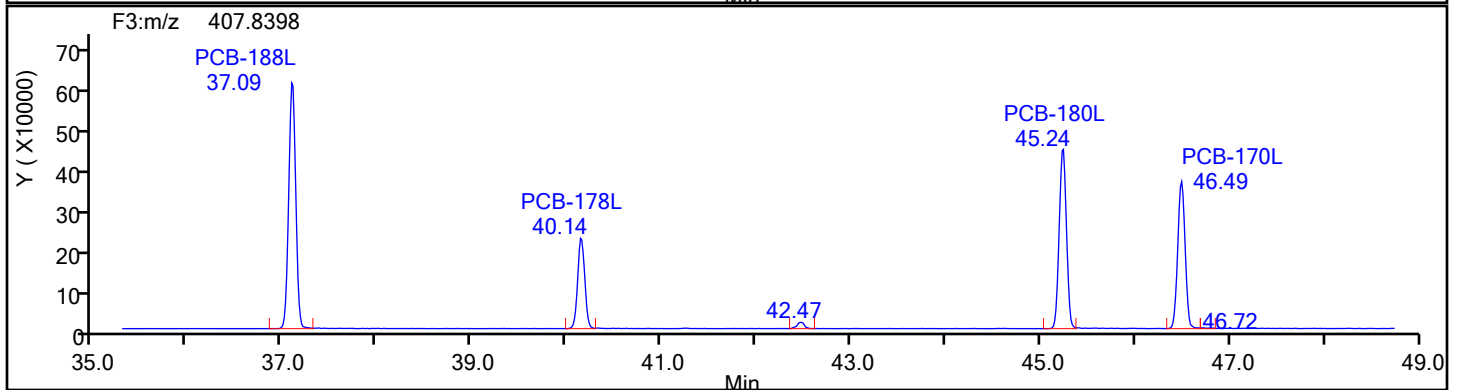
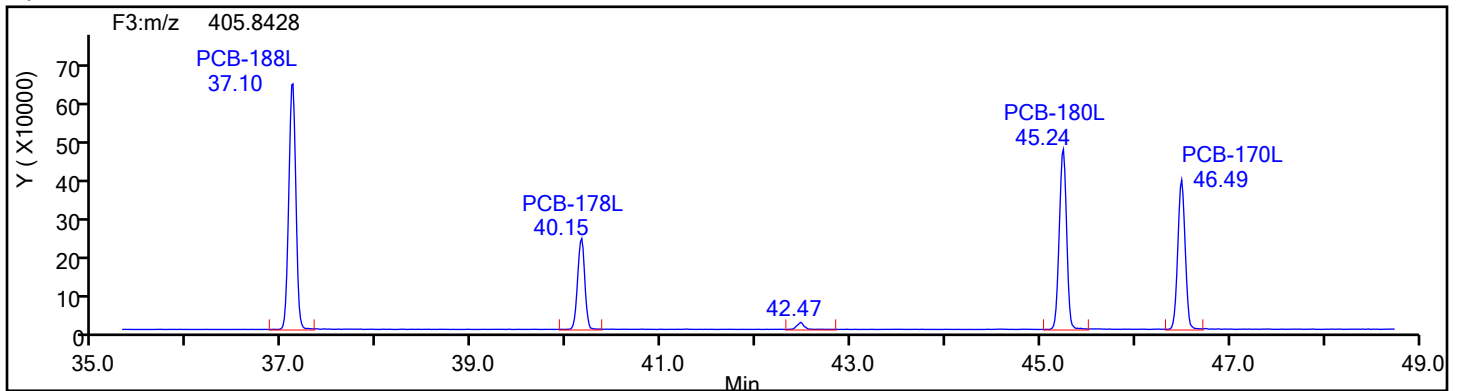
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

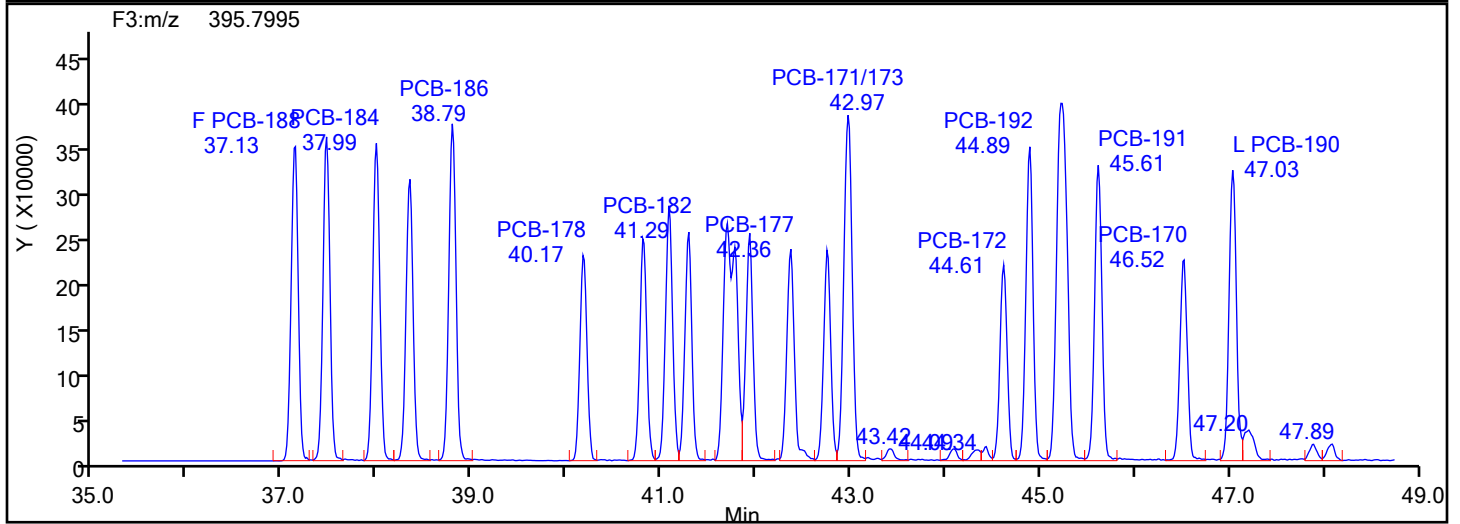
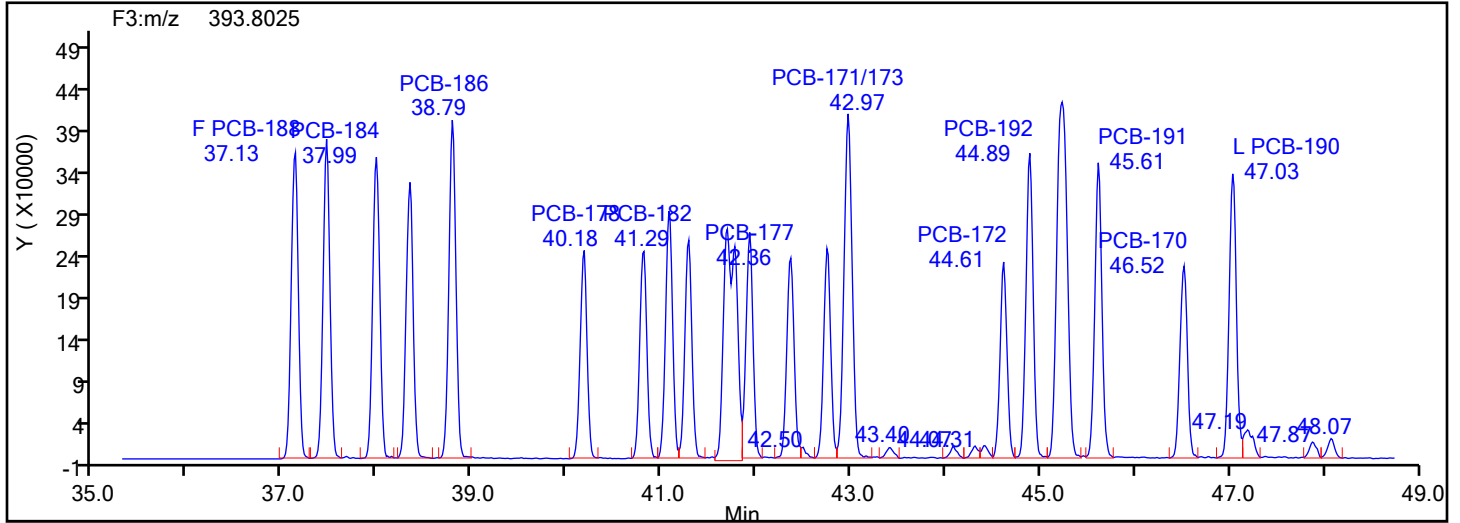
Worklist#: 87130

Sample Line#: 4

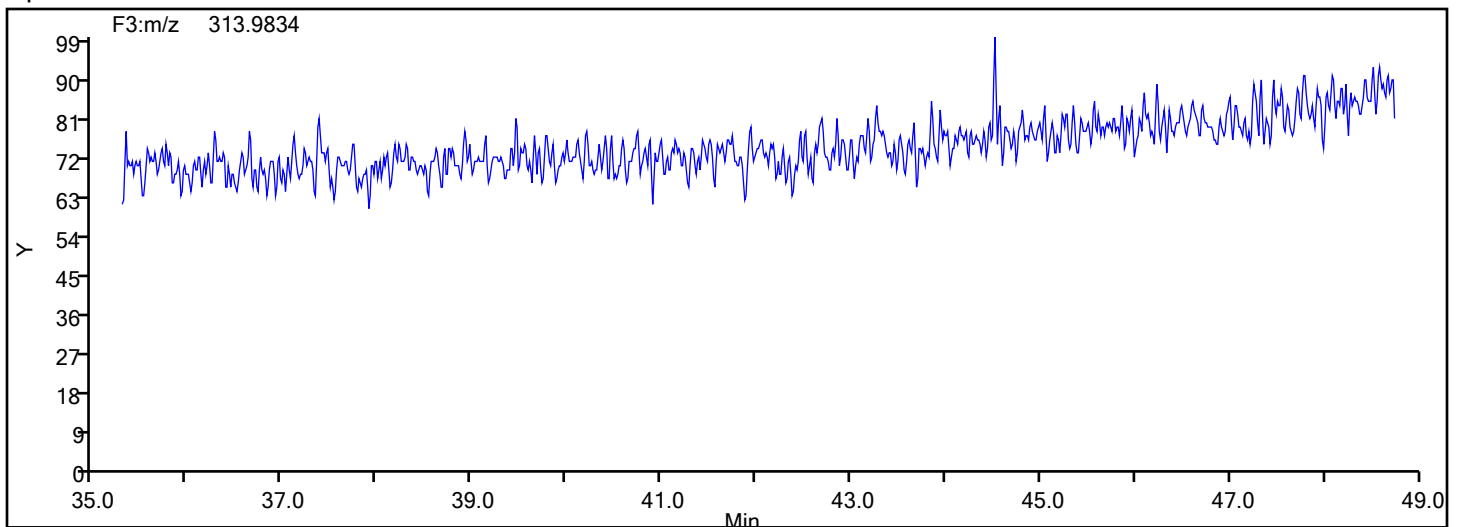
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

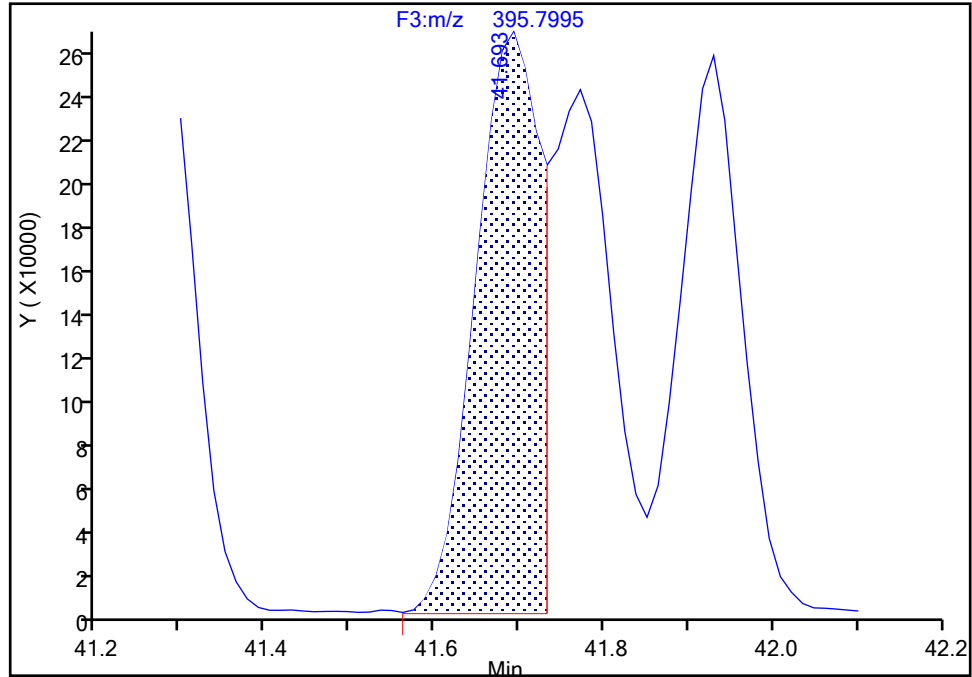
Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 2

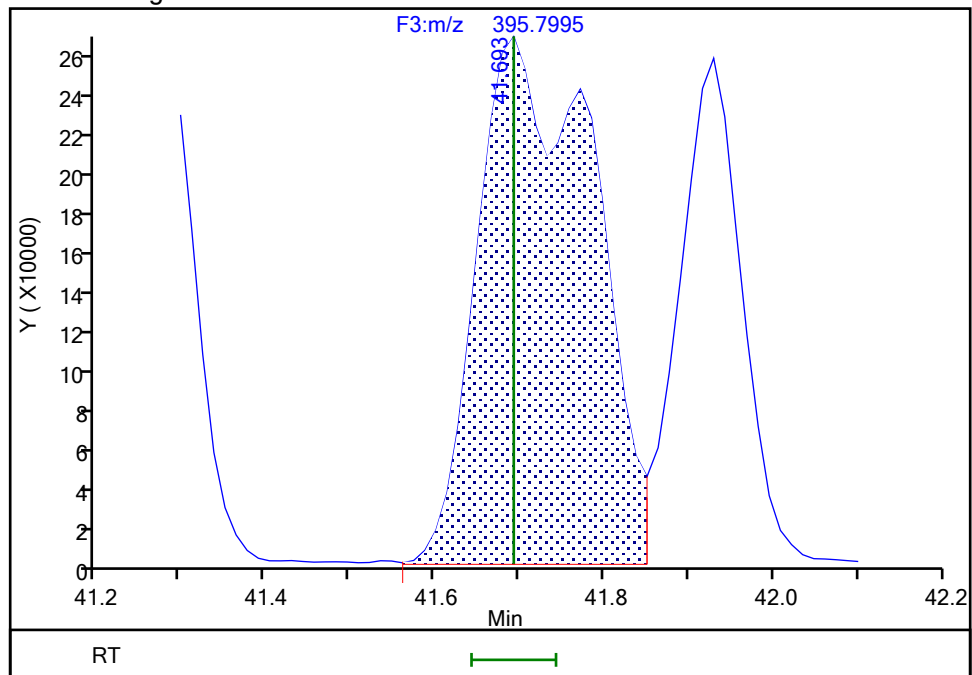
RT: 41.69  
Area: 1353022  
Amount: 58.163319  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.69  
Area: 2486532  
Amount: 96.902129  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:28:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

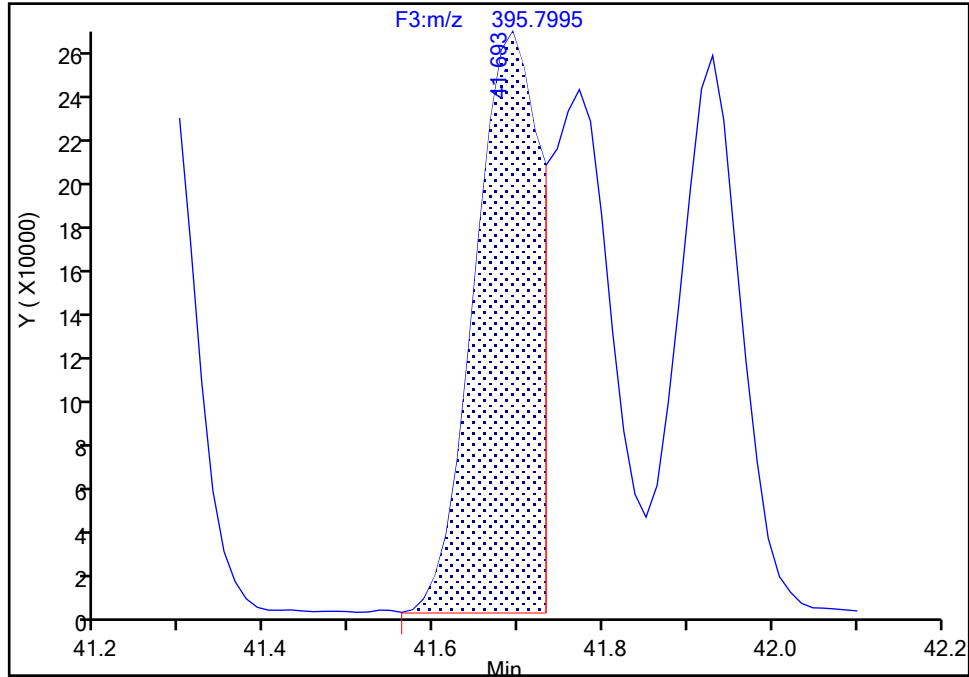
Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 2

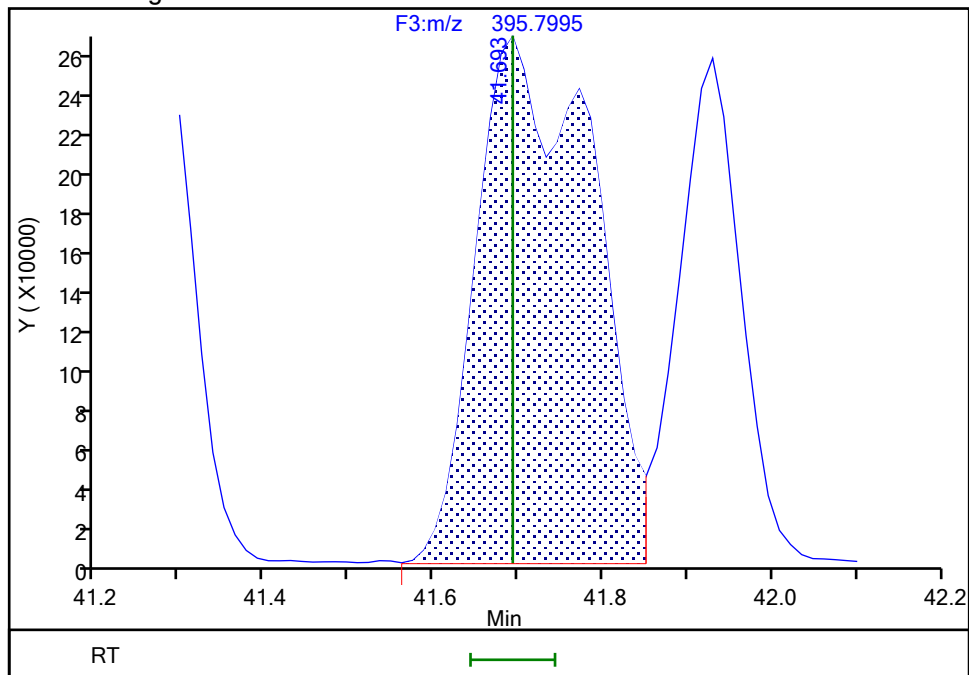
RT: 41.69  
Area: 1353022  
Amount: 58.163319  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.69  
Area: 2486532  
Amount: 96.902129  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:28:23 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

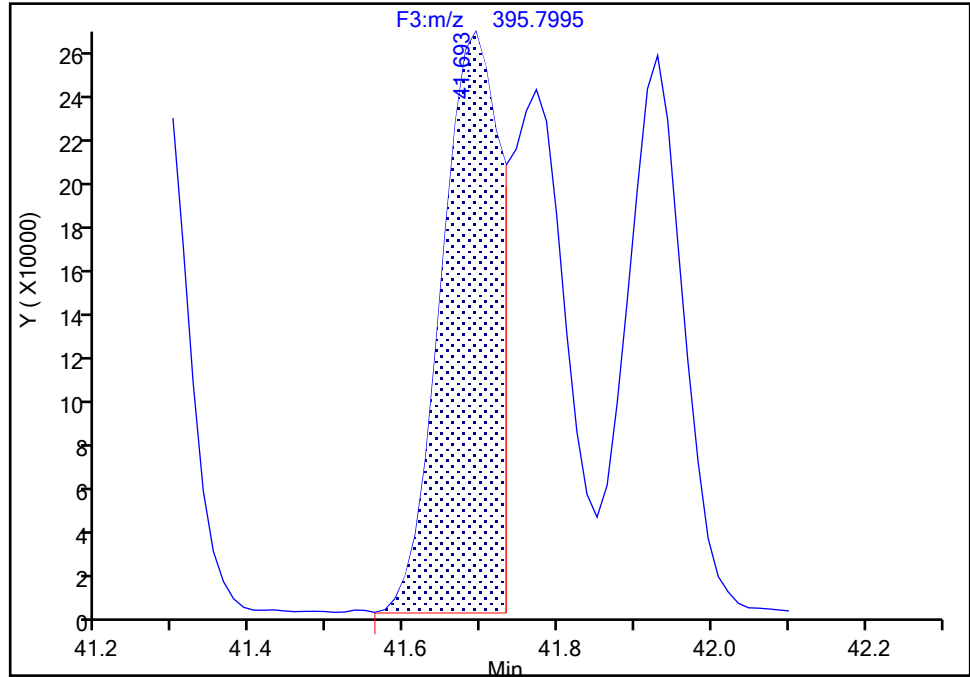
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Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 3

RT: 41.69  
Area: 2755275  
Amount: 58.163319  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 41.69  
Area: 5114533  
Amount: 96.902129  
Amount Units: pg/ul  
Reviewer: V4XA, 31-May-2024 21:28:23 -04:00:00 (UTC)  
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Instrument ID: D2D

Lims ID: IC L4

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

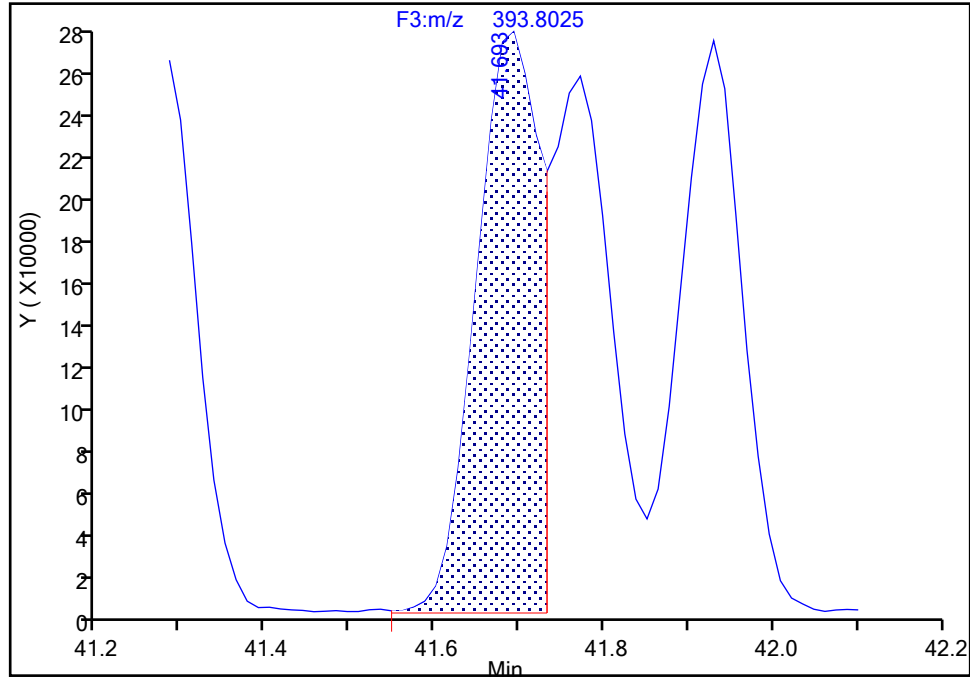
F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 1

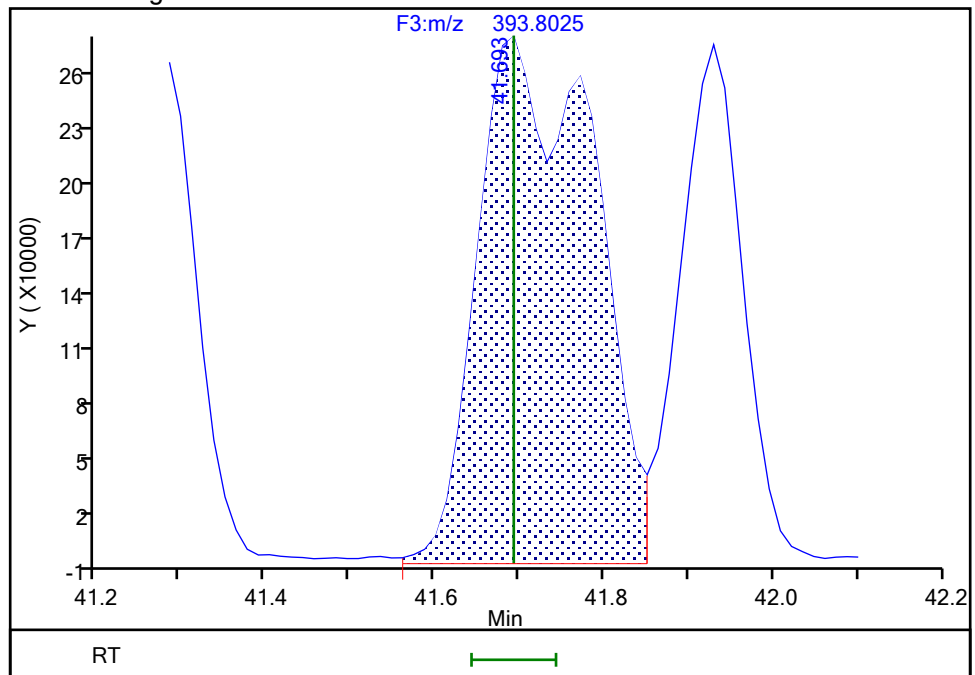
RT: 41.69  
Area: 1402253  
Amount: 58.163319  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.69  
Area: 2628001  
Amount: 96.902129  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 31-May-2024 21:28:26 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

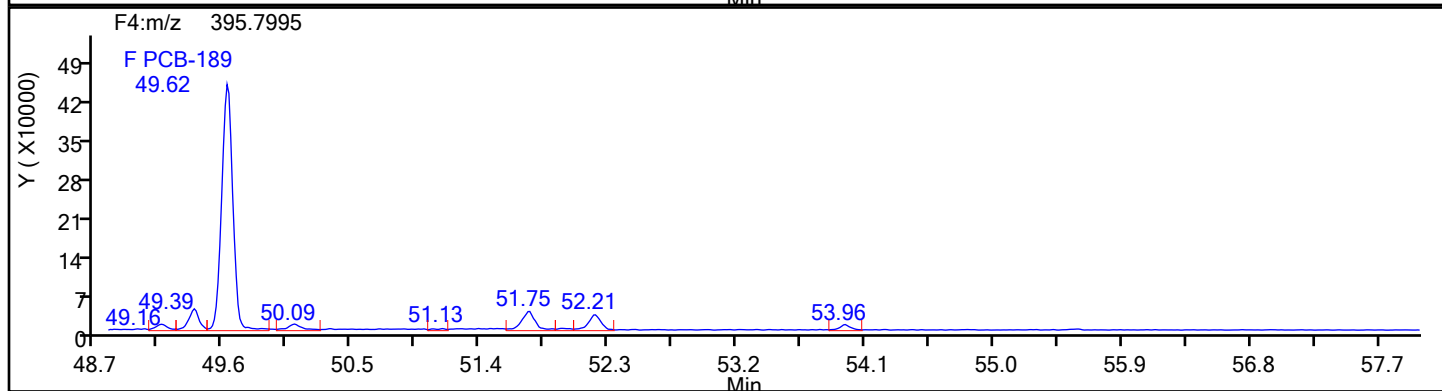
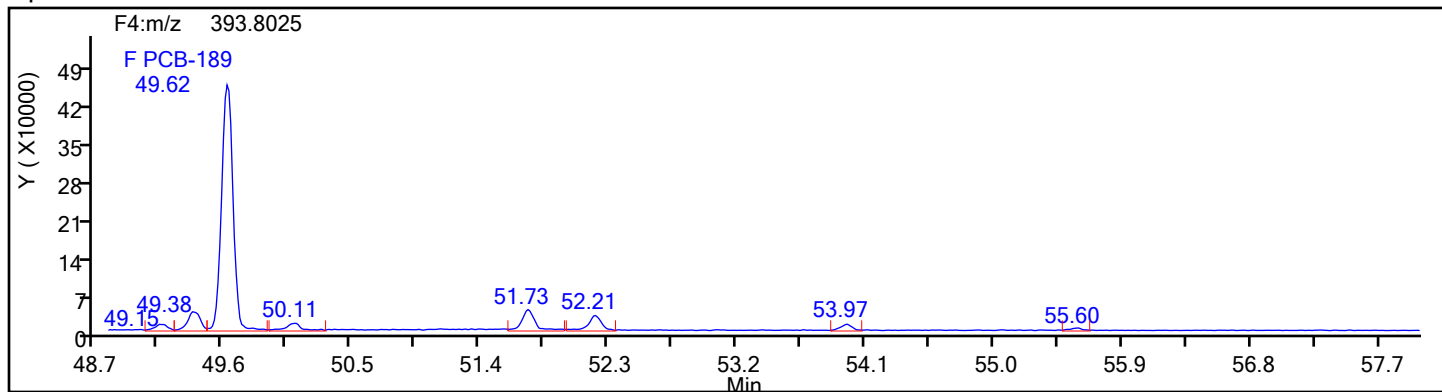
Worklist#: 87130

Sample Line#: 4

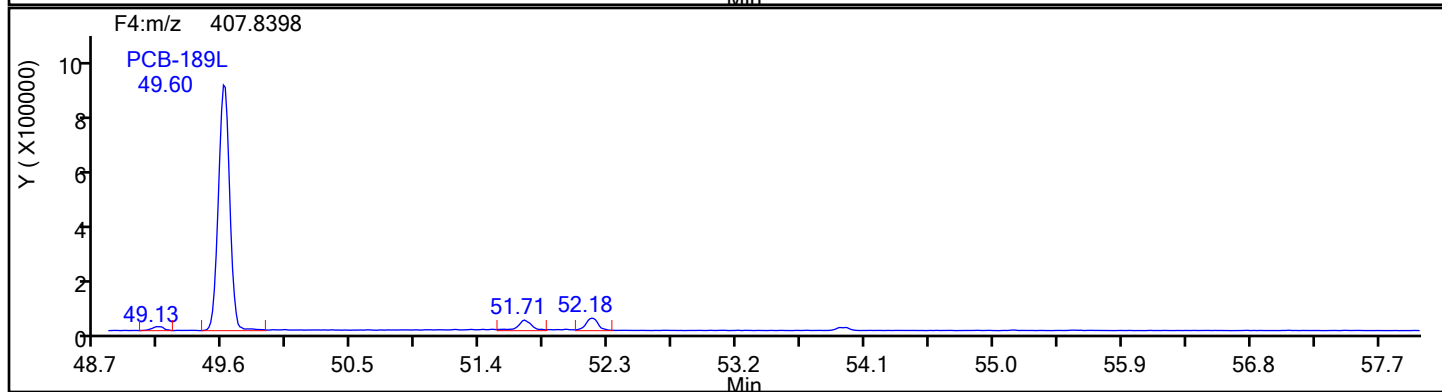
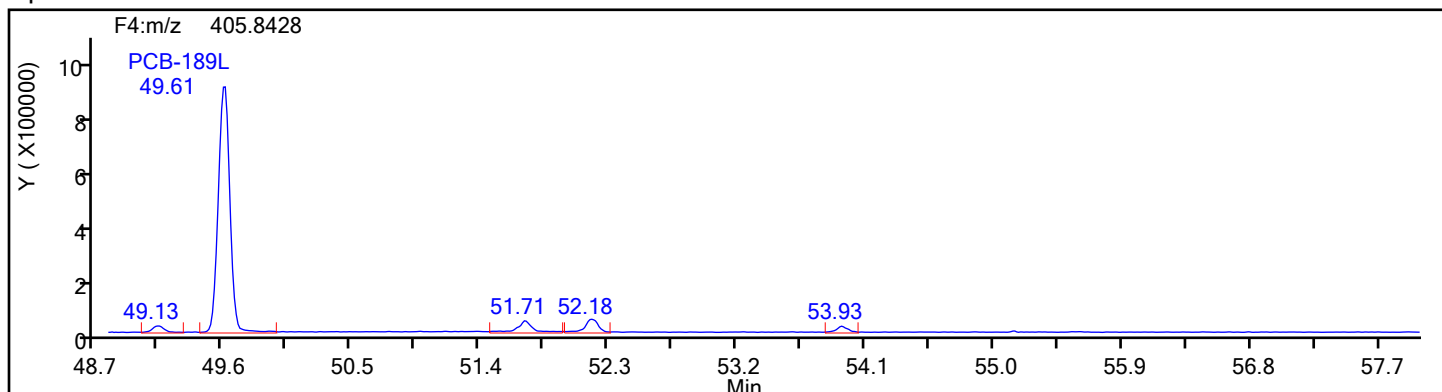
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

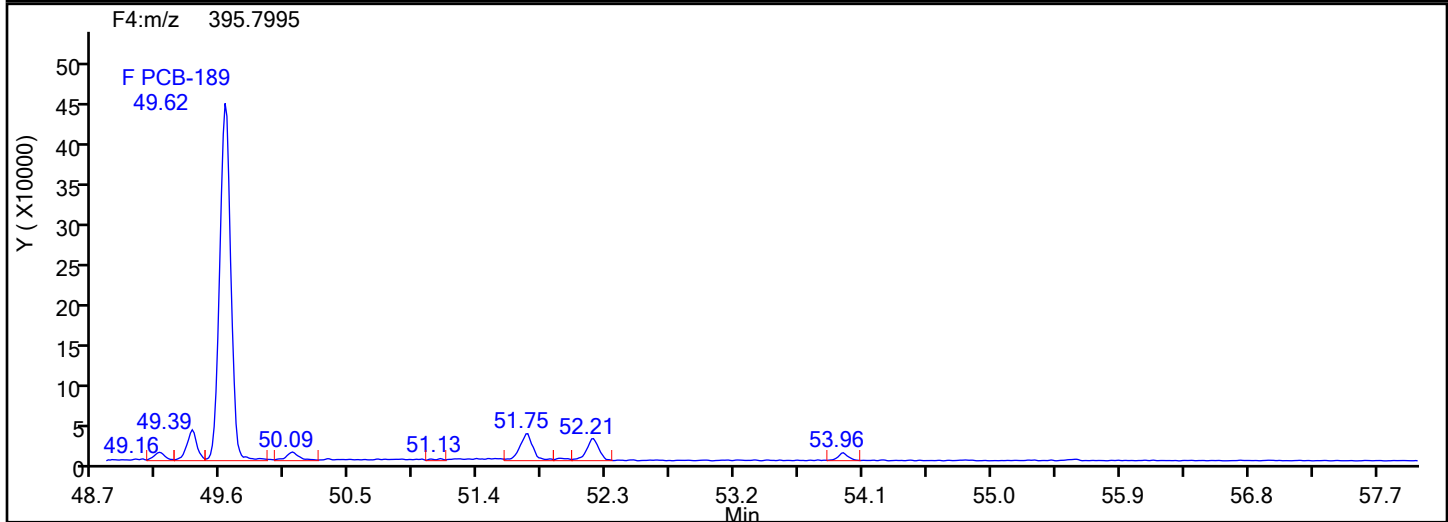
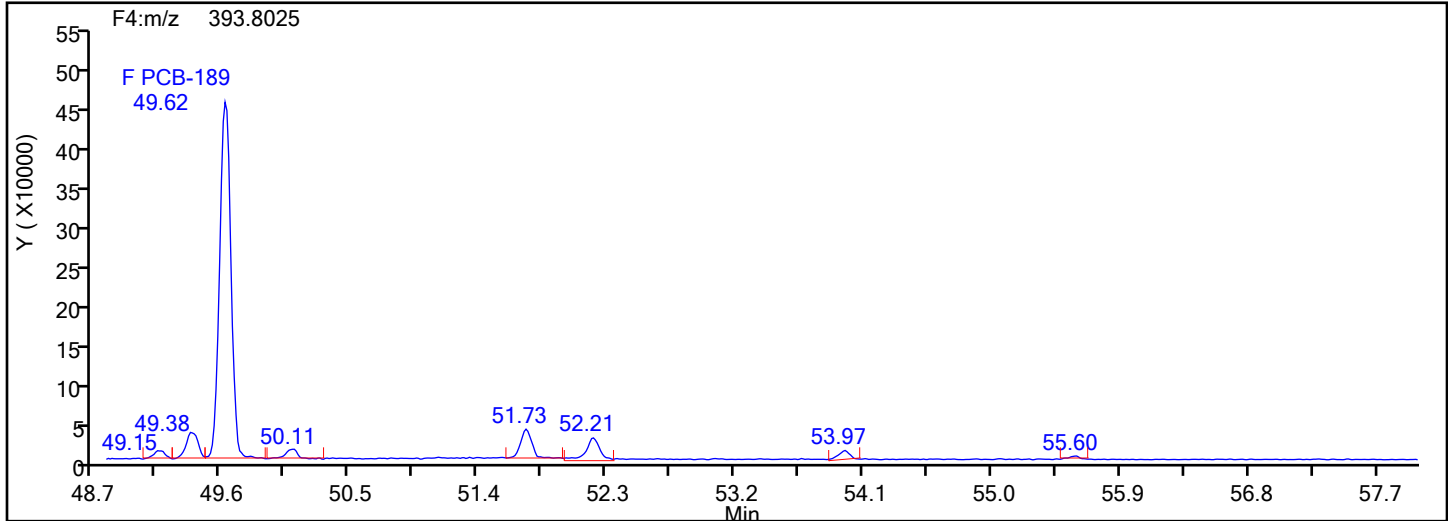
Worklist#: 87130

Sample Line#: 4

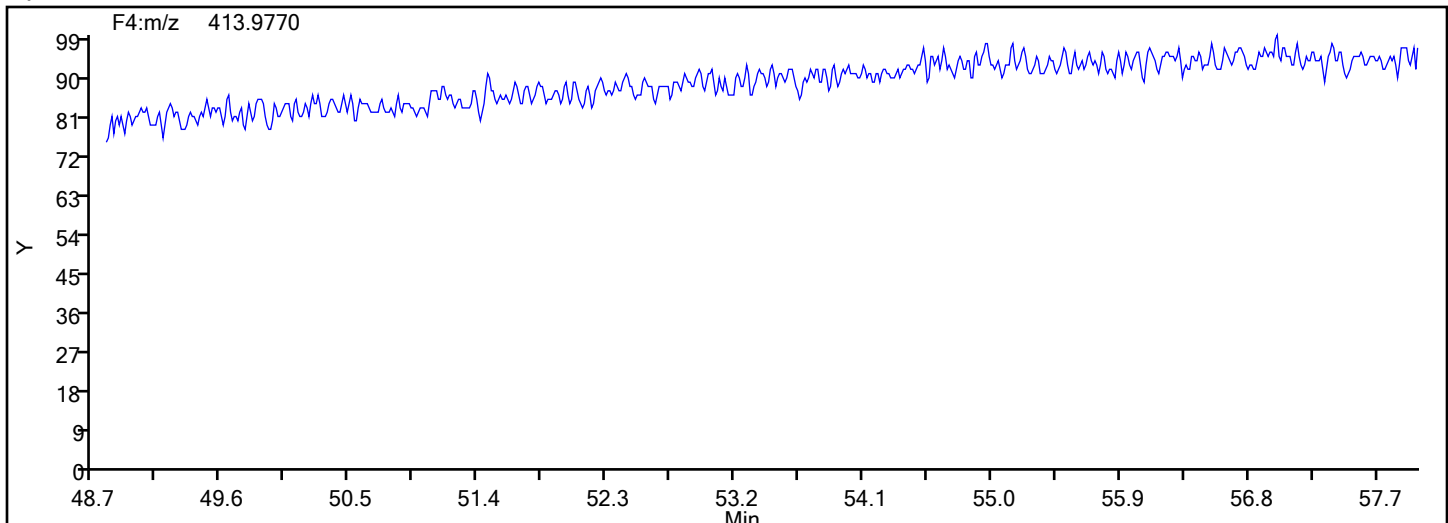
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

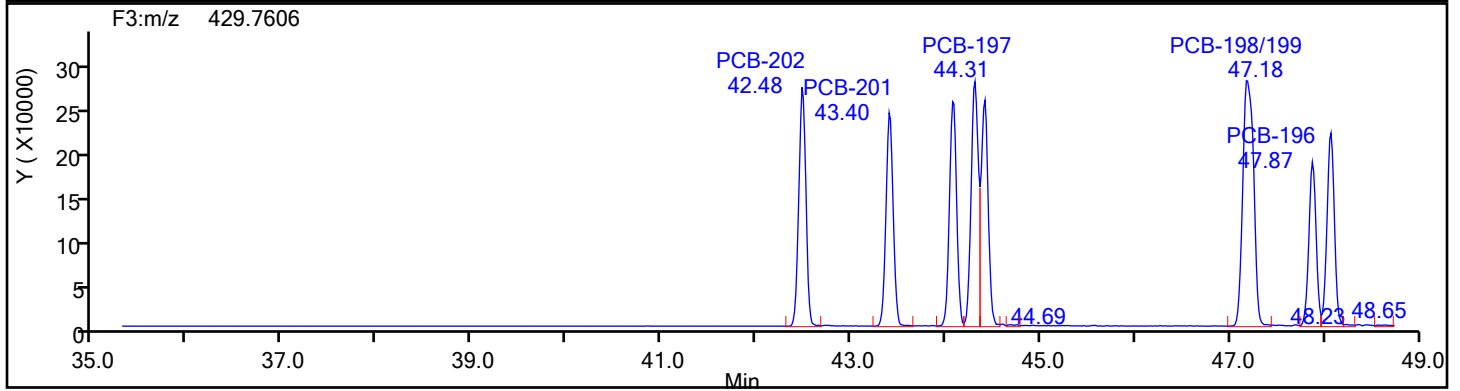
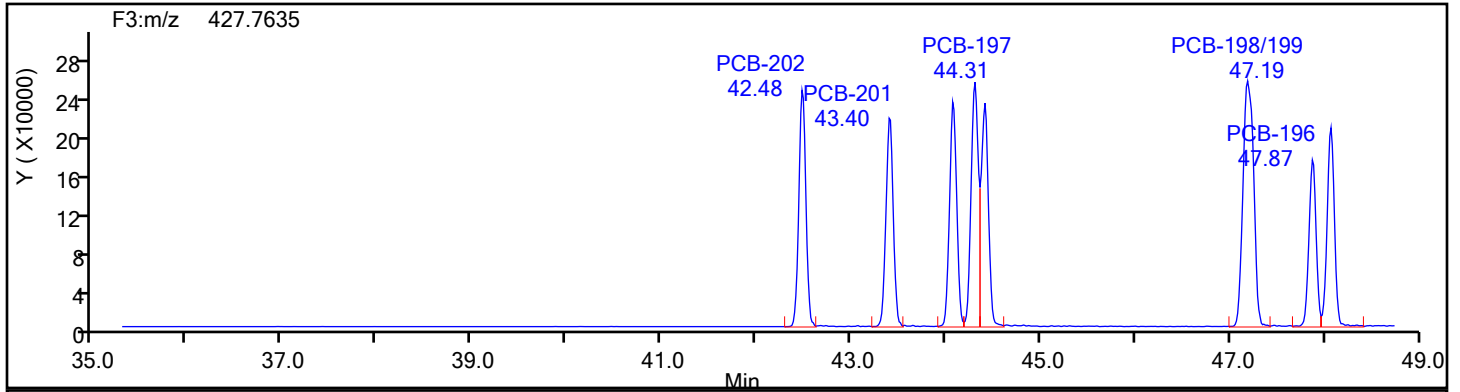
Worklist#: 87130

Sample Line#: 4

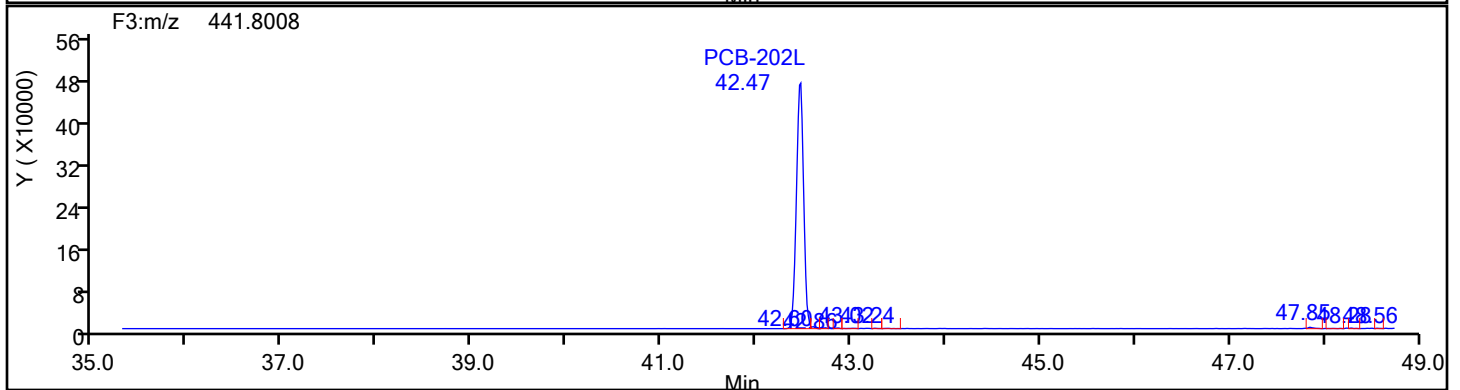
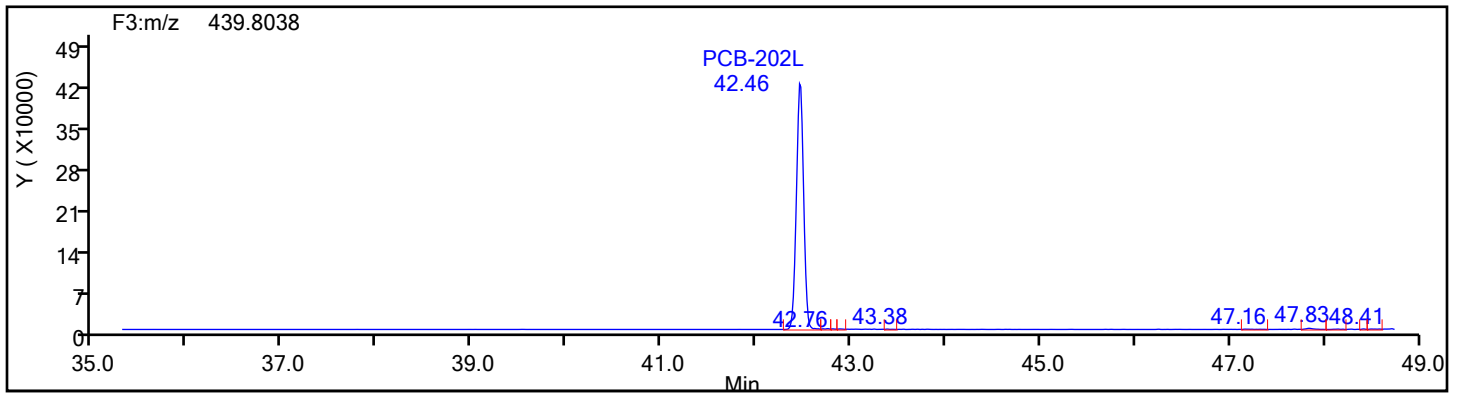
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

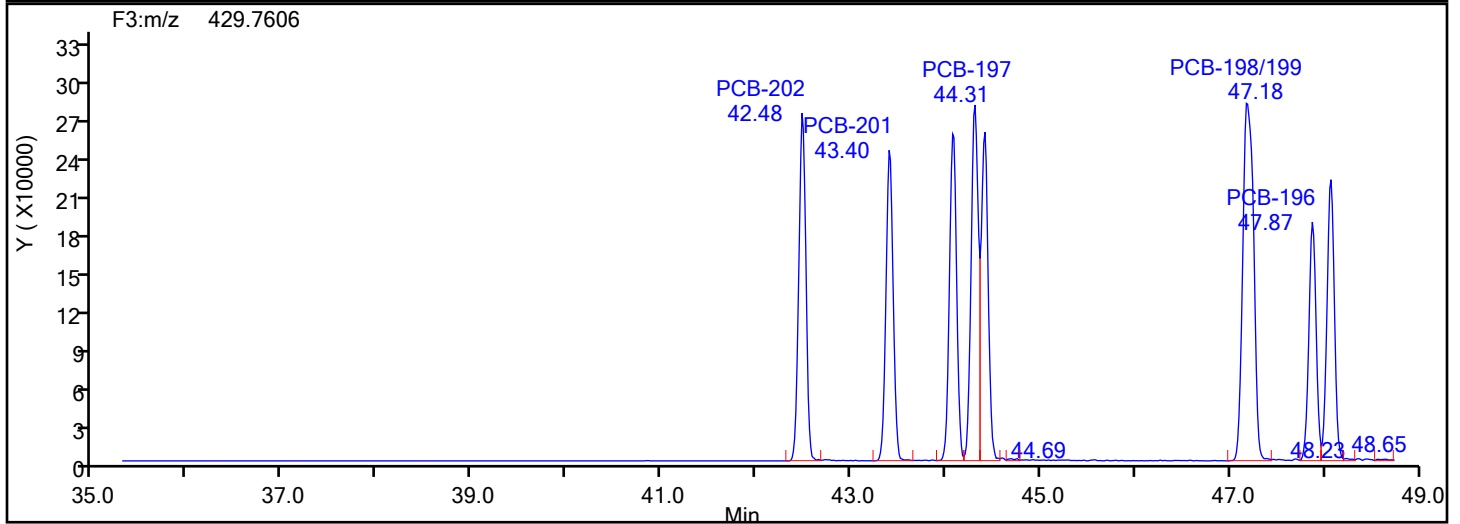
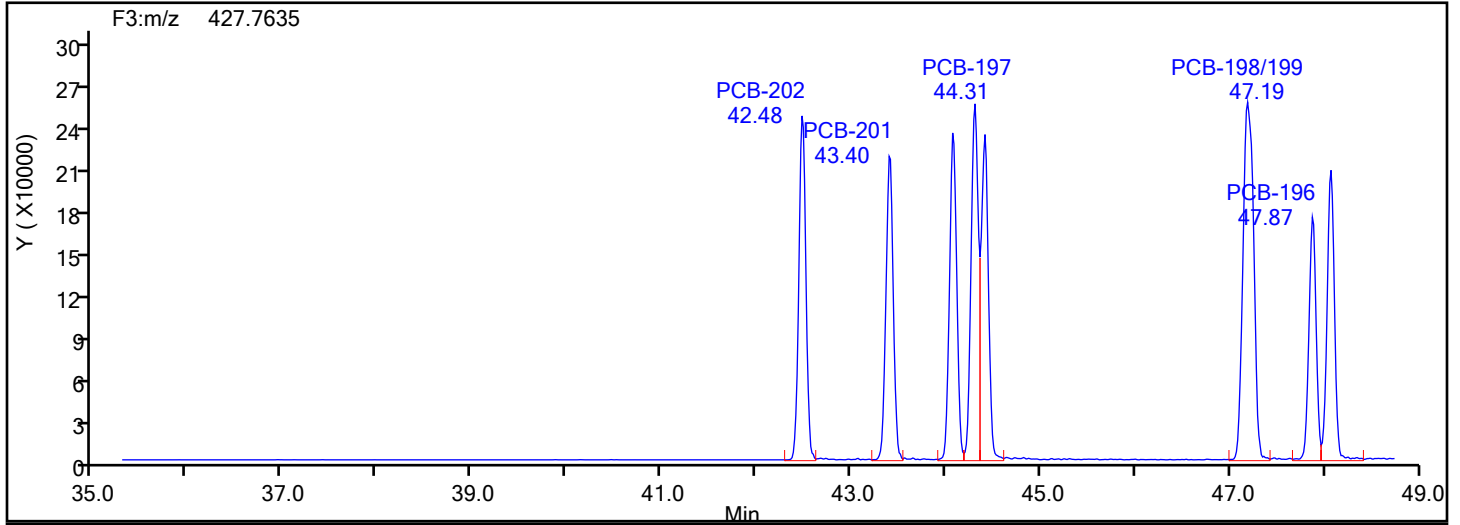


OcPCB F3 Standards

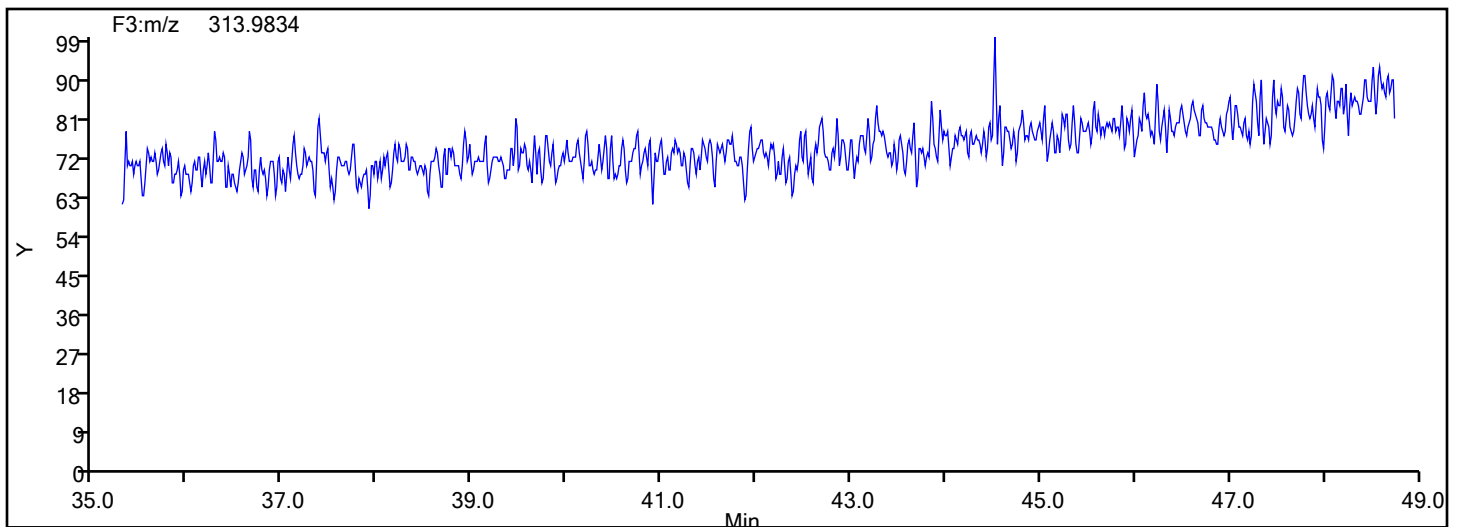


## Eurofins Knoxville

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Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

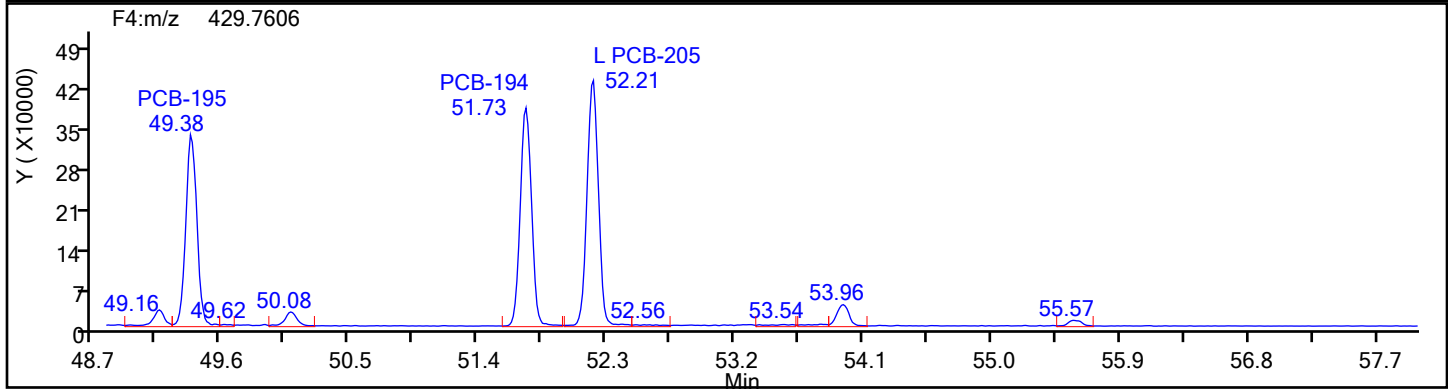
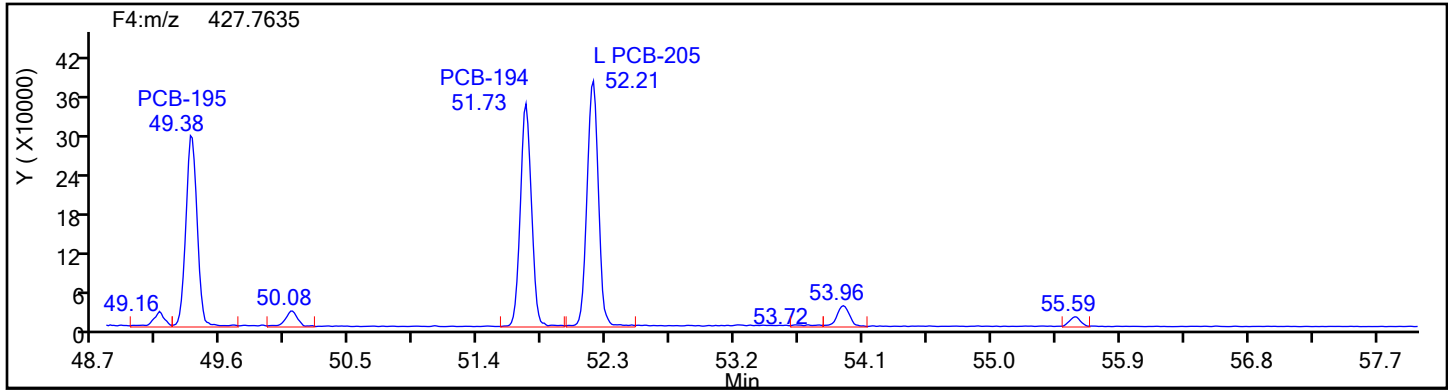


## OcPCB F3 Lock Mass

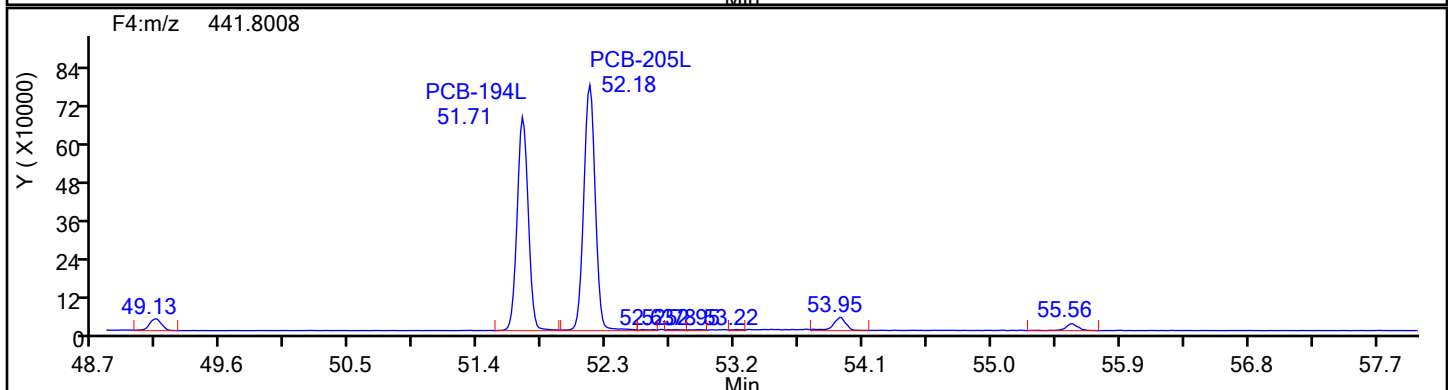
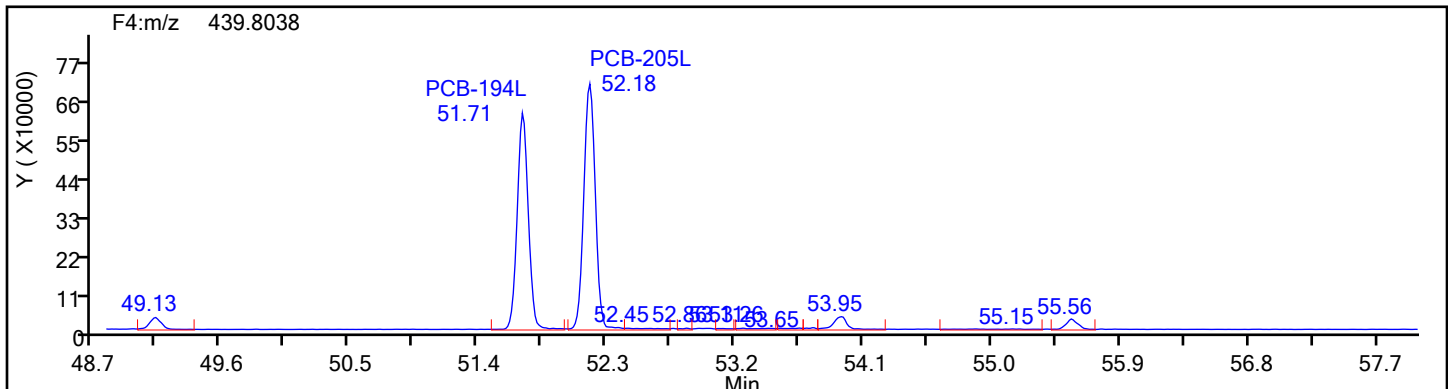


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

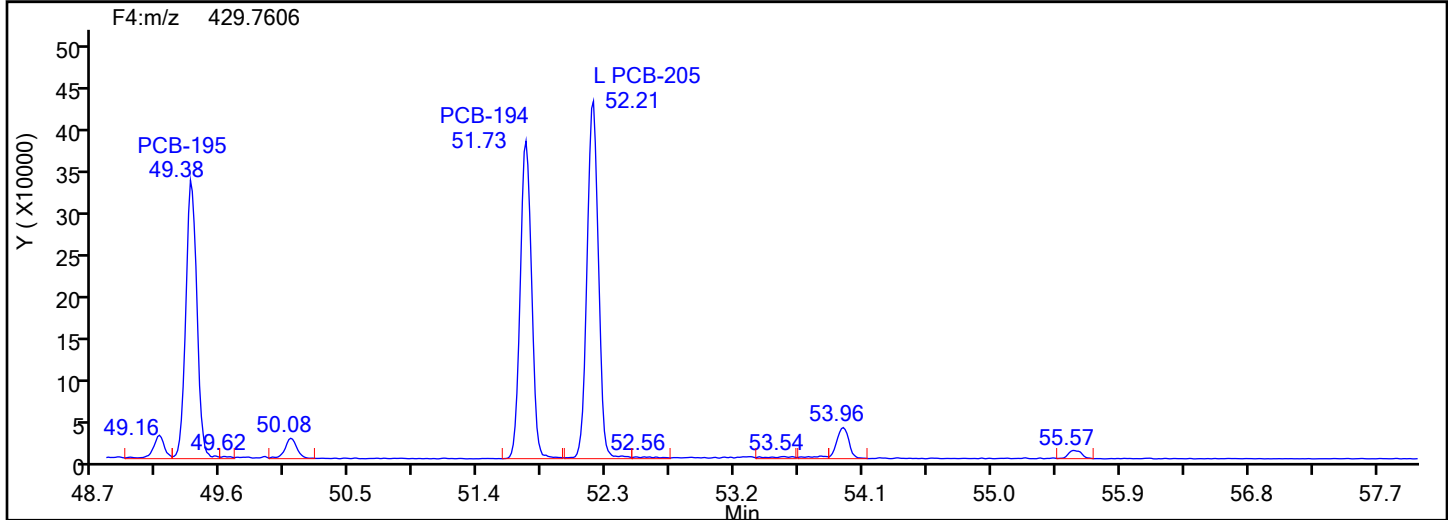
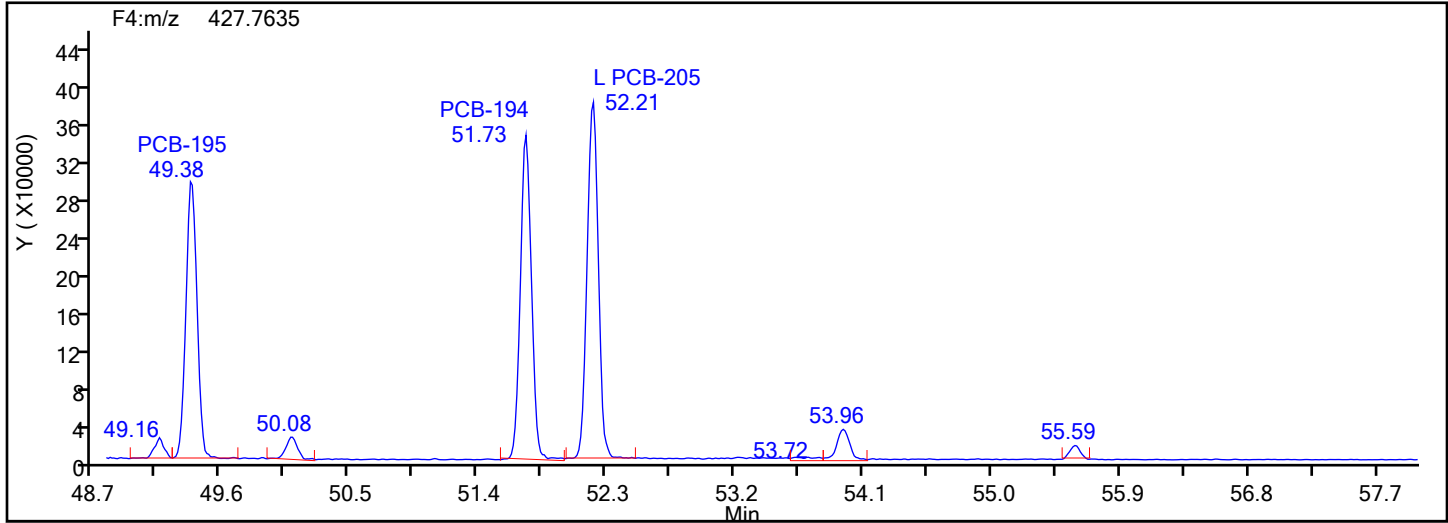


## OcPCB F4 Standards

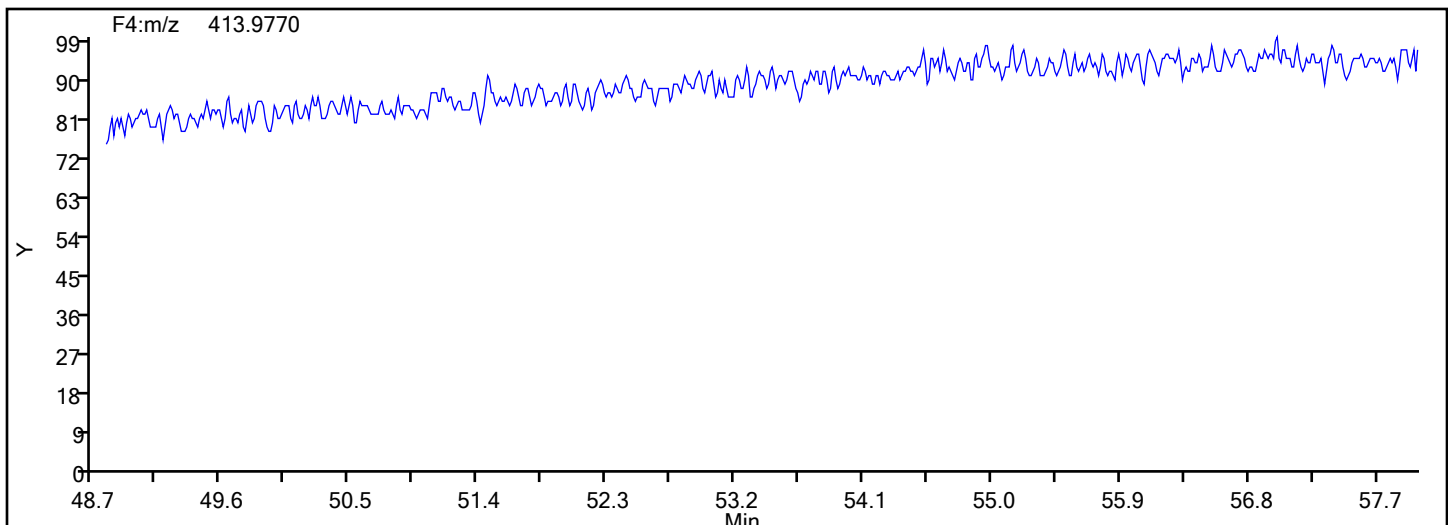


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4

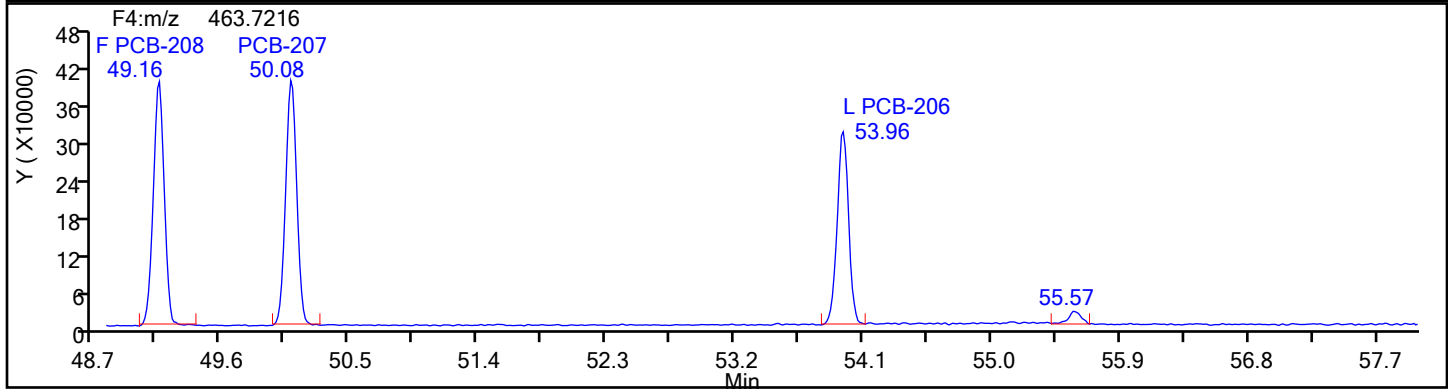
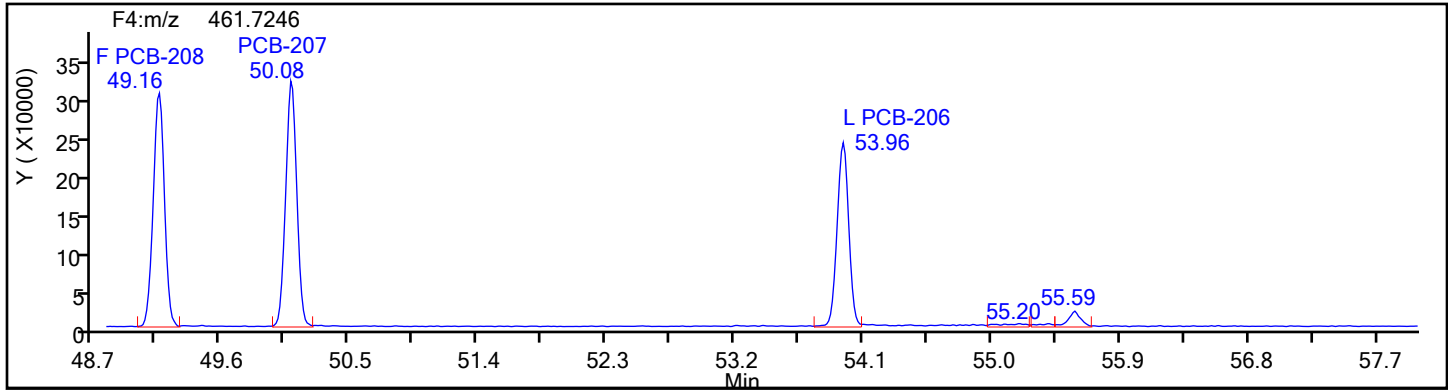


## OcPCB F4 Lock Mass

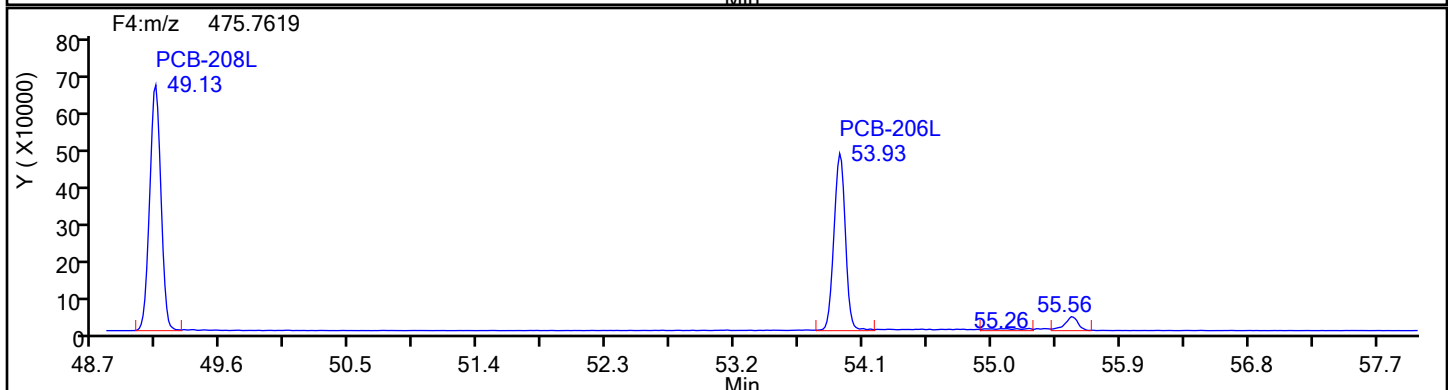
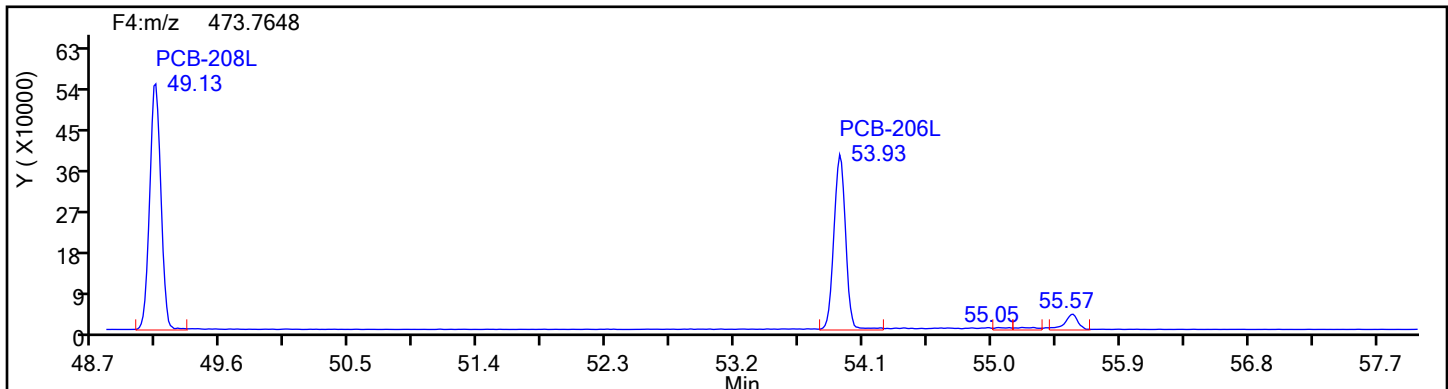


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



## NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d

Injection Date: 31-May-2024 19:10:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

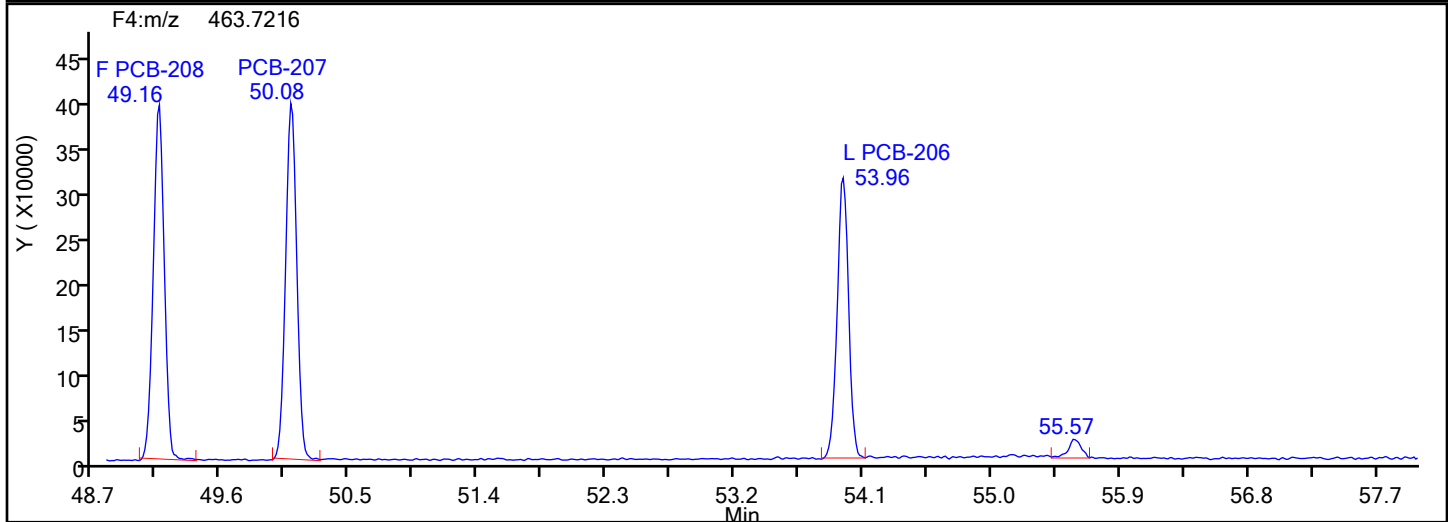
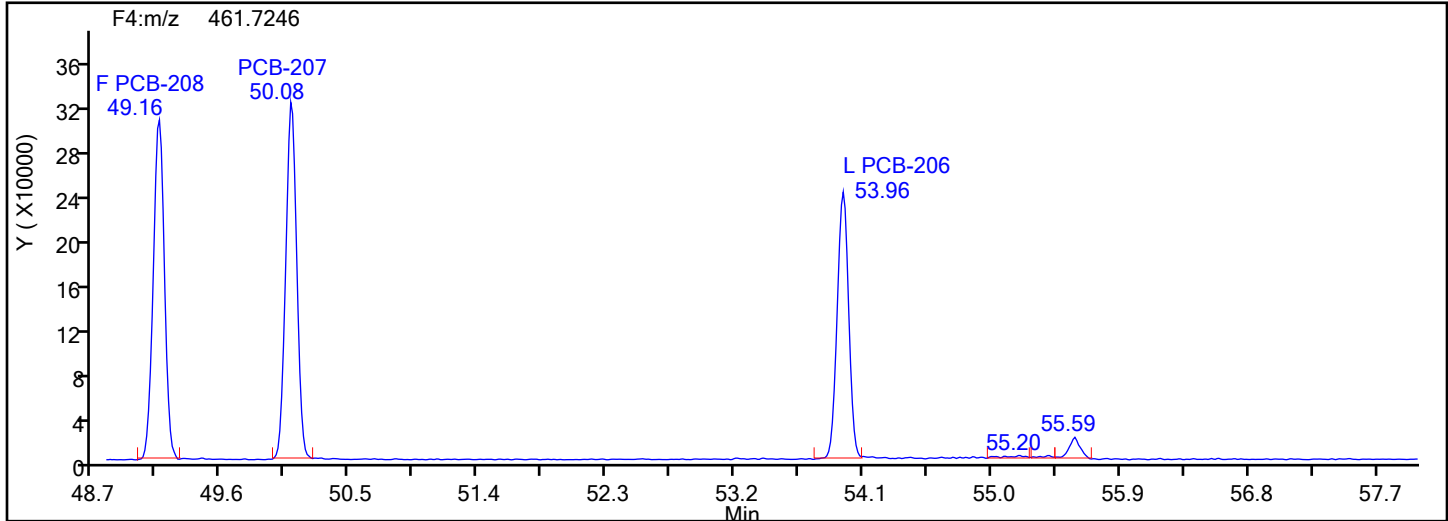
Worklist#: 87130

Sample Line#: 4

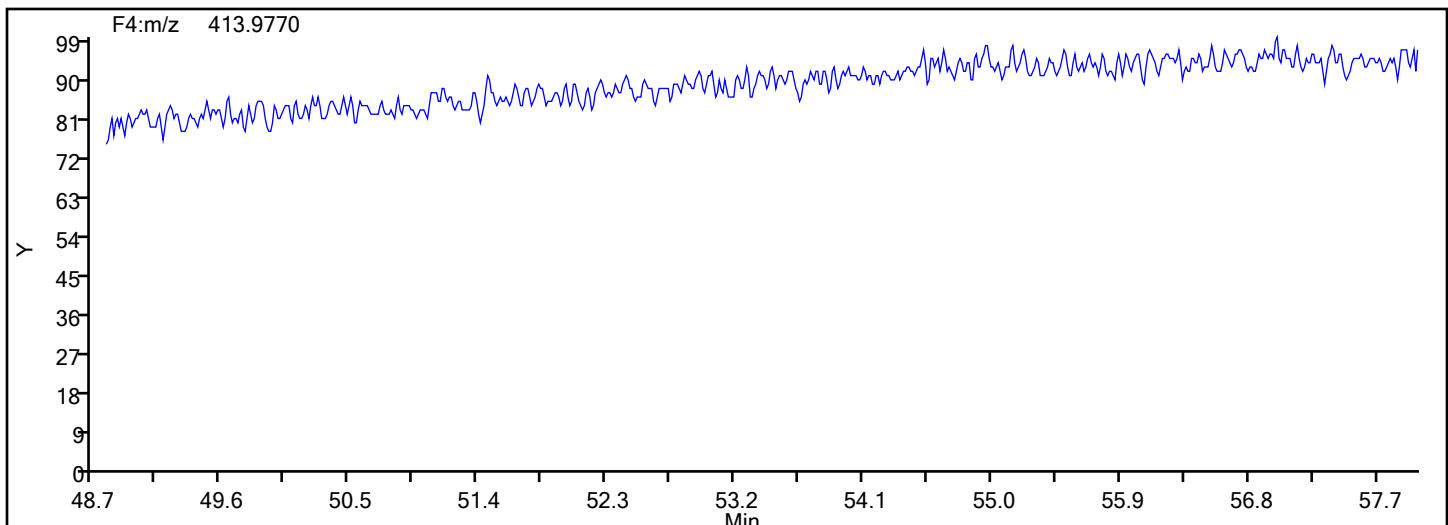
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass





## Eurofins Knoxville

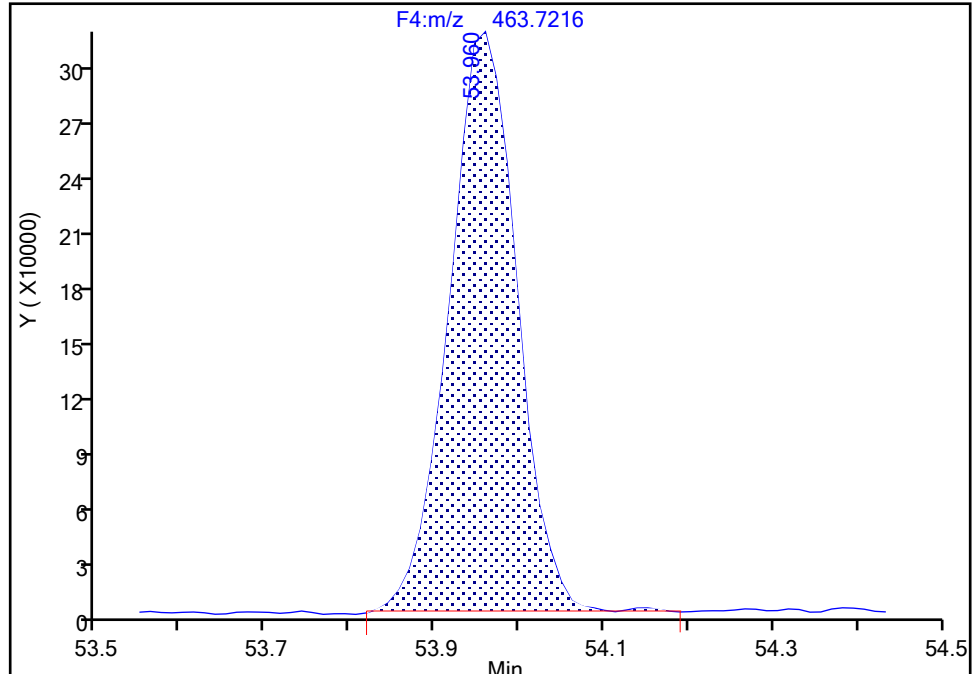
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Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F4(49.20 :57.50 )

PCB-206, CAS: 40186-72-9

Signal: 2

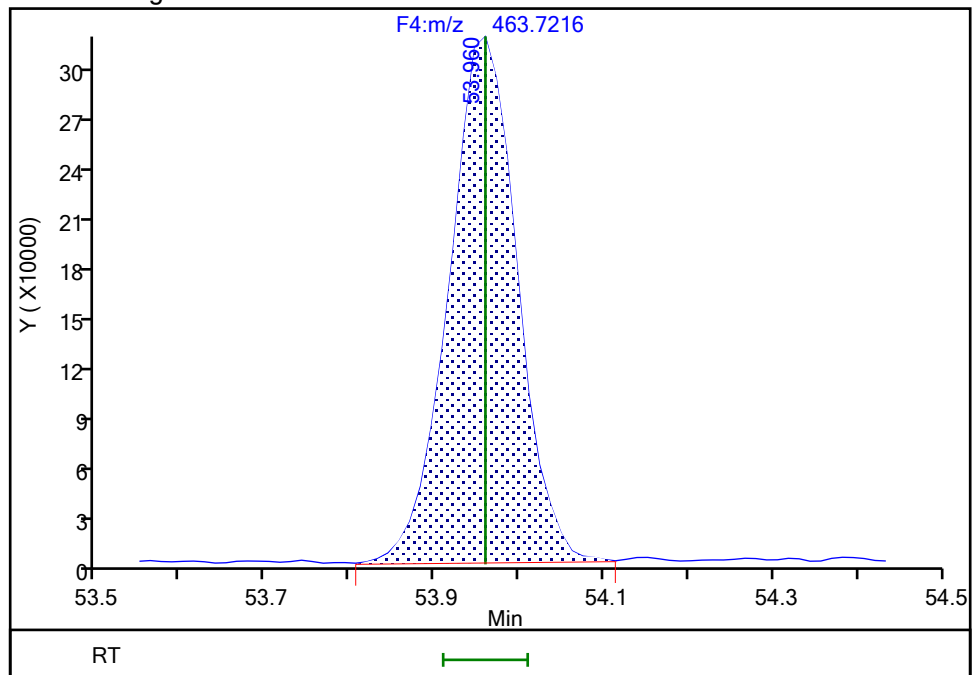
RT: 53.96  
Area: 1747998  
Amount: 47.494765  
Amount Units: pg/ul

## Processing Integration Results



RT: 53.96  
Area: 1761287  
Amount: 47.741918  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:12:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

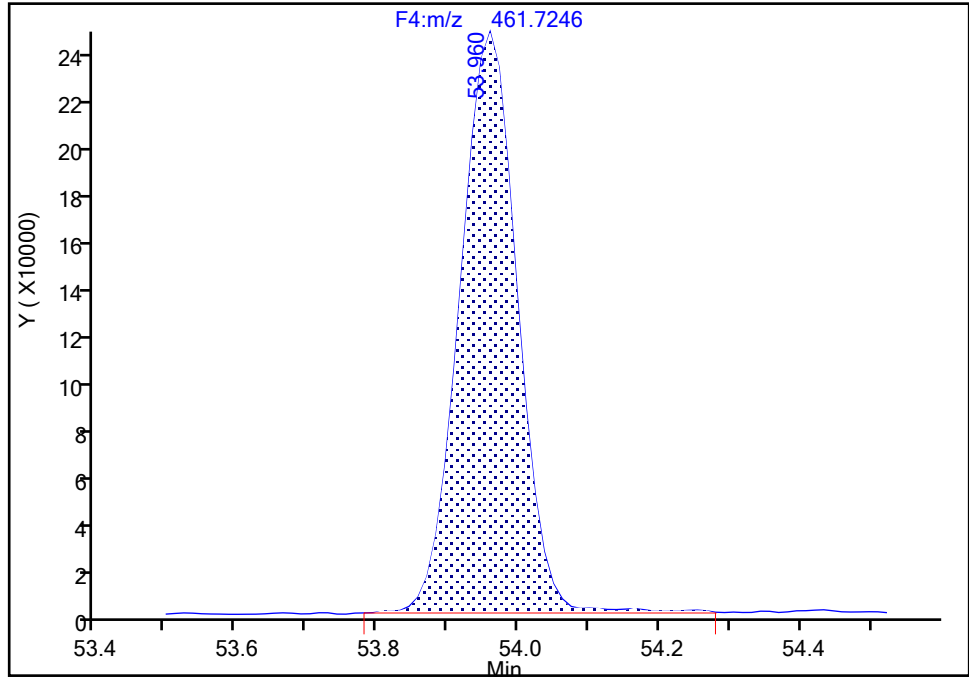
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Instrument ID: D2D  
Lims ID: IC L4  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

PCB-206, CAS: 40186-72-9

Signal: 1

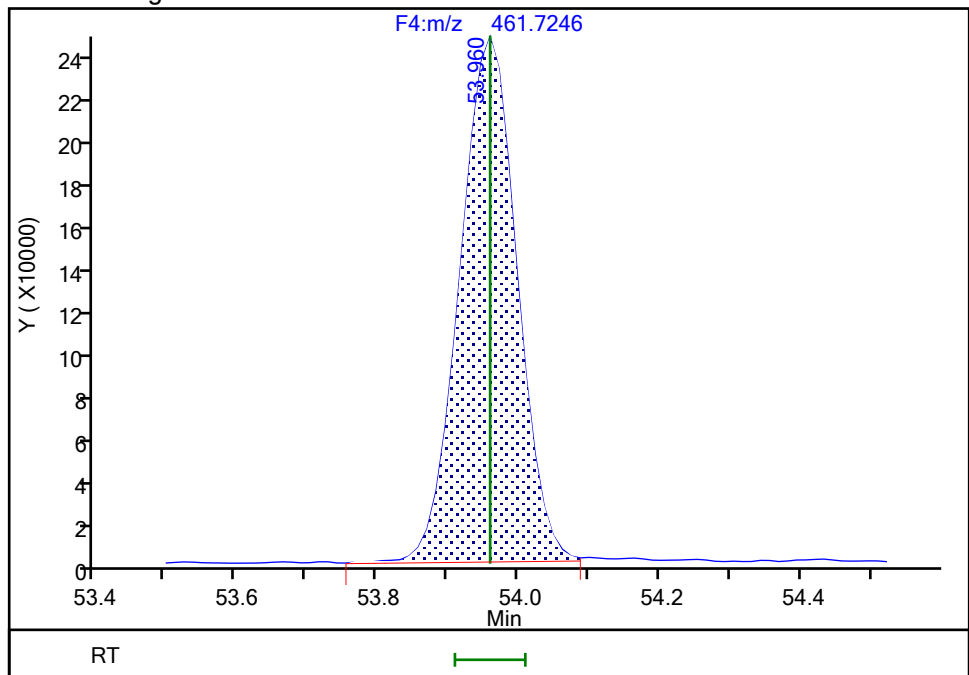
RT: 53.96  
Area: 1370361  
Amount: 47.494765  
Amount Units: pg/ul

## Processing Integration Results



RT: 53.96  
Area: 1363275  
Amount: 47.741918  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:13:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

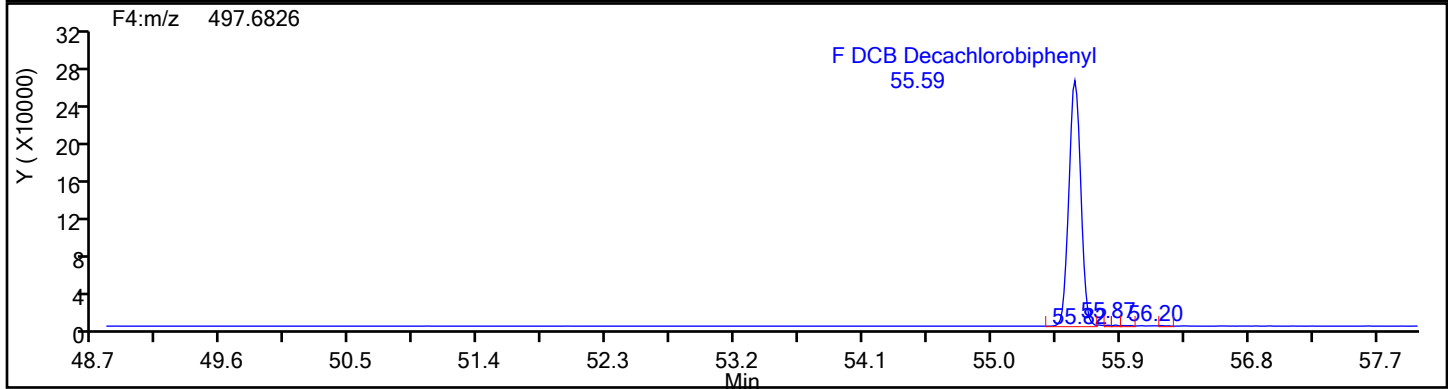
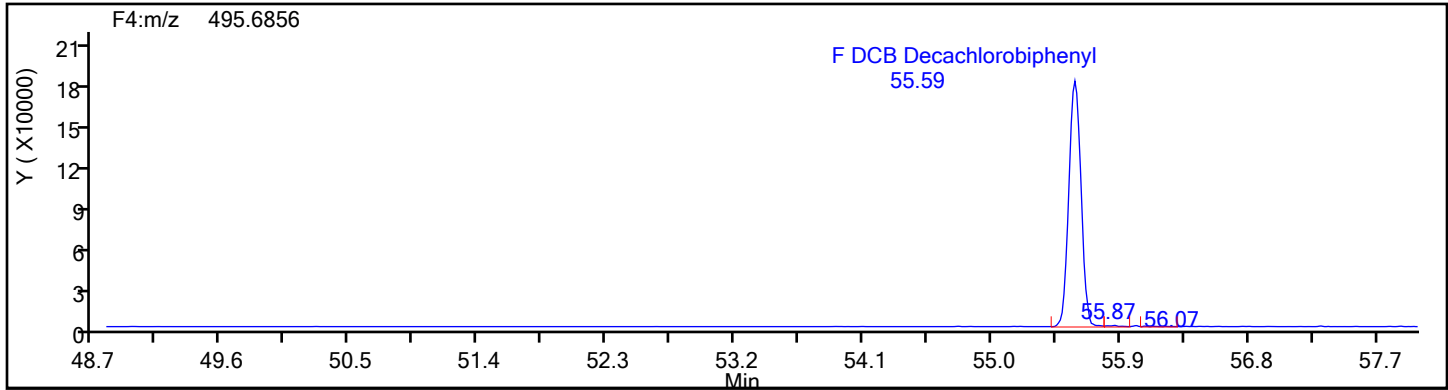
Audit Reason: Baseline

Page 2196 of 3373

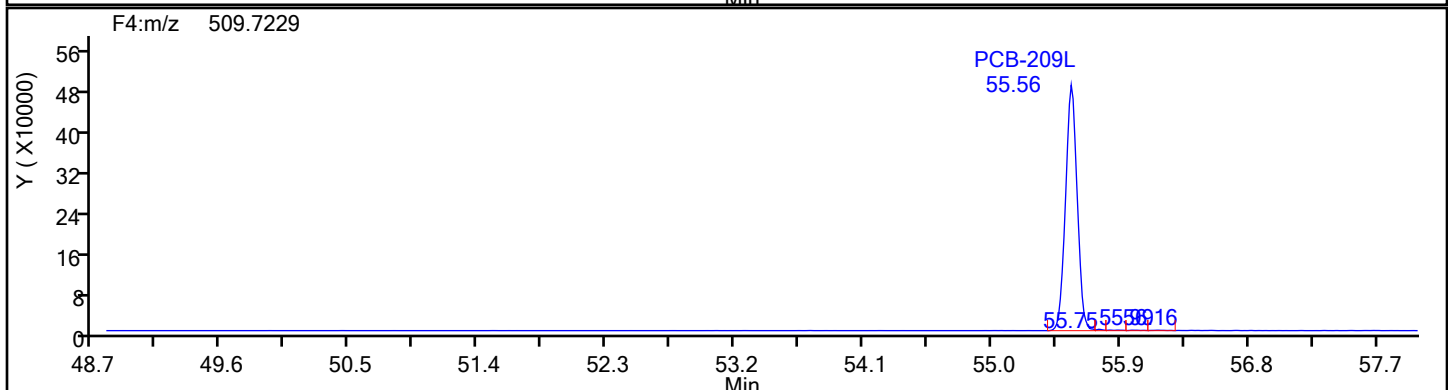
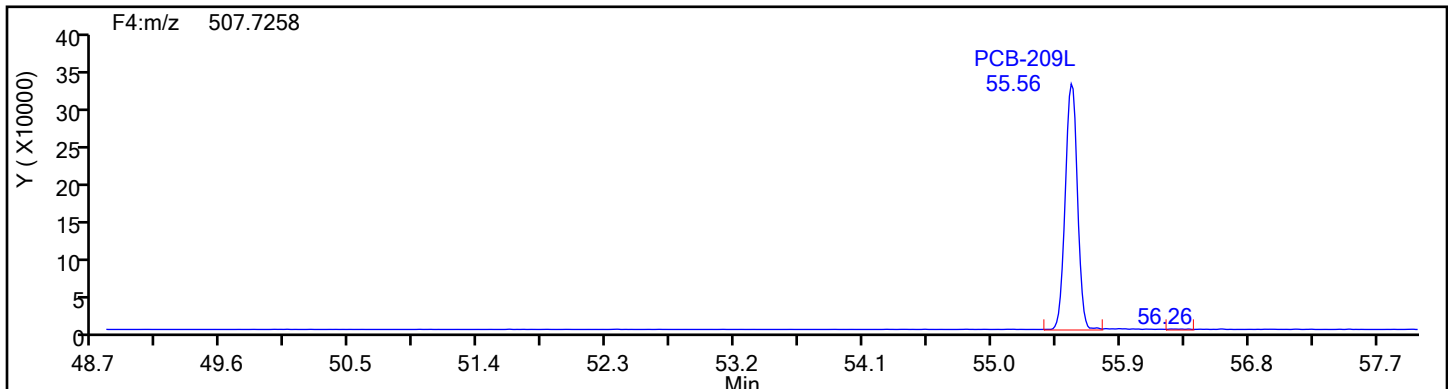
BASFHWC-F-2024-04320  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

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Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4

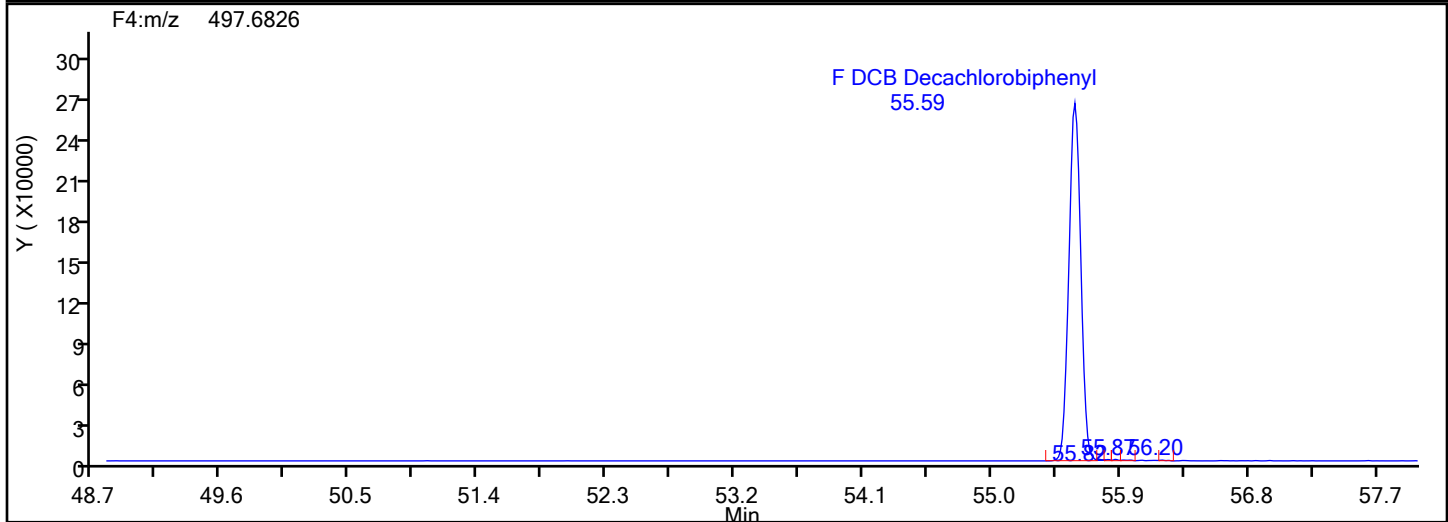
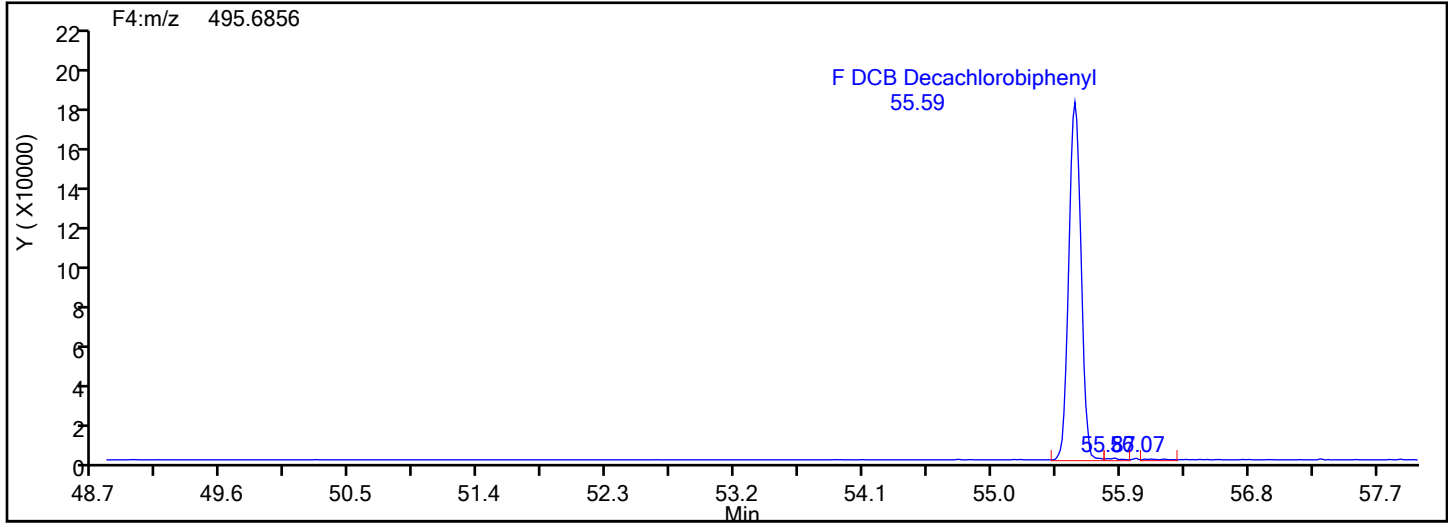


## DePCB F4 Standards

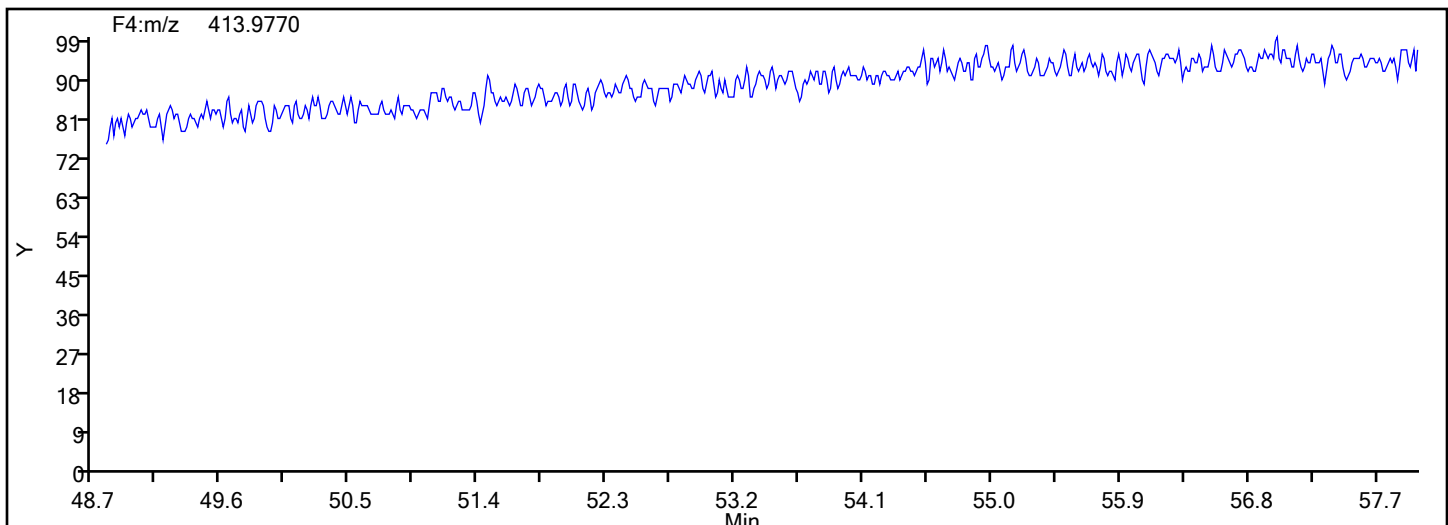


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi4.d  
Injection Date: 31-May-2024 19:10:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 4  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Lims ID: IC L5  
Client ID:  
Sample Type: IC Calib Level: 5  
Inject. Date: 31-May-2024 20:12:00 ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-005  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:28:19 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 01-Jun-2024 03:02:33

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					1217.8	1217.8	1.154	1.154		
D PCB-1L	11:36	13820437	3.16	1.6108	98.0	98.0	0.8301	0.8301	97.96	
D PCB-3L	13:45	13803706	3.20	1.5891	99.2	99.2	0.8414	0.8414	99.18	
PCB-1	11:36	68569399	3.29	1.2191	407.0	407.0	1.062	1.062	102	
PCB-2	13:36	67117936	3.26	1.1805	411.6	411.6	1.175	1.175	103	
PCB-3	13:46	67267765	3.23	1.2206	399.2	399.2	1.225	1.225	99.81	
S Total Dichlorobiphenyls					4678.9	4678.9	0.0272	0.0272		
D PCB-4L	14:01	5561618	1.57	0.6475	98.1	98.1	0.1179	0.1179	98.07	
* PCB-9L	15:58	8758158	1.62		100.0	100.0				
\$ PCB-8L	16:48	33958319	1.61	1.2066	371.9	371.9	0.0782	0.0782	92.96	
D PCB-15L	19:53	9575202	1.63	1.0789	101.3	101.3	0.0707	0.0707	101	
PCB-4	14:02	27890333	1.59	1.2818	391.2	391.2	0.0340	0.0340	97.81	
PCB-10	14:12	38655568	1.60	1.3149	388.4	388.4	0.0284	0.0284	97.11	
PCB-9	15:59	42181873	1.60	1.4224	391.8	391.8	0.0263	0.0263	97.95	
PCB-7	16:09	41182455	1.60	1.4134	385.0	385.0	0.0264	0.0264	96.24	
PCB-6	16:24	44979638	1.61	1.5421	385.4	385.4	0.0242	0.0242	96.35	
PCB-5	16:42	40020538	1.61	1.3395	394.8	394.8	0.0279	0.0279	98.69	
PCB-8	16:50	47031816	1.61	1.5889	391.1	391.1	0.0235	0.0235	97.78	
PCB-14	18:27	41013941	1.60	1.4025	386.4	386.4	0.0266	0.0266	96.60	
PCB-11	19:17	38153224	1.60	1.2951	389.3	389.3	0.0288	0.0288	97.31	
PCB-12	19:35	80149527	1.61	1.3358	792.8	792.8	0.0280	0.0280	99.10	
PCB-13 (C12)	19:35	80149527	1.61	1.3358	792.8	792.8	0.0280	0.0280	99.10	
PCB-15	19:54	47283812	1.61	1.2903	382.7	382.7	0.0253	0.0253	95.68	
S Total Trichlorobiphenyls					9347.4	9347.4	2.029	2.029		
D PCB-19L	17:06	3537933	1.07	0.6285	97.7	97.7	0.6831	0.6831	97.68	
* PCB-32L	20:22	5762324	1.10		100.0	100.0				
* PCB-31L	22:37	16737748	1.05		100.0	100.0				
\$ PCB-28L	22:55	63120528	1.05	1.0494	359.4	359.4	0.0845	0.0845	89.84	
D PCB-37L	26:55	14730805	1.06	0.8749	100.6	100.6	0.1013	0.1013	101	
PCB-19	17:08	18011092	1.06	1.2809	397.4	397.4	0.0291	0.0291	99.36	
PCB-18	18:58	49683955	1.06	1.7652	795.6	795.6	0.0211	0.0211	99.44	
PCB-30 (C18)	18:58	49683955	1.06	1.7652	795.6	795.6	0.0211	0.0211	99.44	
PCB-17	19:24	17339157	1.06	1.2430	394.3	394.3	0.0300	0.0300	98.57	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:38	26360662	1.06	1.8327	406.5	406.5	0.0203	0.0203	102	
PCB-24	19:45	23939751	1.05	1.6777	403.3	403.3	0.0222	0.0222	101	
PCB-16	19:52	16041877	1.05	1.1286	401.8	401.8	0.0330	0.0330	100	
PCB-32	20:23	25877431	1.05	1.8324	399.2	399.2	0.0203	0.0203	99.79	
PCB-34	21:38	63733574	1.06	1.1277	383.6	383.6	3.136	3.136	95.91	
PCB-23	21:48	59373148	1.04	1.0813	372.7	372.7	3.271	3.271	93.19	
PCB-26	22:07	130294664	1.05	1.1255	785.9	785.9	3.142	3.142	98.24	
PCB-29 (C26)	22:07	130294664	1.05	1.1255	785.9	785.9	3.142	3.142	98.24	
PCB-25	22:20	71143057	1.05	1.2728	379.4	379.4	2.779	2.779	94.86	
PCB-31	22:39	63731167	1.04	1.1532	375.1	375.1	3.067	3.067	93.79	
PCB-20	22:57	135356691	1.04	1.1718	784.1	784.1	3.018	3.018	98.02	
PCB-28 (C20)	22:57	135356691	1.04	1.1718	784.1	784.1	3.018	3.018	98.02	
PCB-21	23:07	121766982	1.03	1.0746	769.2	769.2	3.291	3.291	96.16	M
PCB-33 (C21)	23:07	121766982	1.03	1.0746	769.2	769.2	3.291	3.291	96.16	M
PCB-22	23:34	67196694	1.06	1.1932	382.3	382.3	2.964	2.964	95.57	
PCB-36	25:08	61342563	1.05	1.1071	376.2	376.2	3.195	3.195	94.04	
PCB-39	25:29	65934116	1.05	1.1581	386.5	386.5	3.054	3.054	96.62	
PCB-38	26:04	61948482	1.06	1.0843	387.8	387.8	3.262	3.262	96.96	
PCB-35	26:32	65004472	1.03	1.1297	390.6	390.6	3.131	3.131	97.66	
PCB-37	26:56	63280259	1.05	1.1435	375.7	375.7	3.093	3.093	93.92	
S Total Tetrachlorobiphenyls					15935	15935	2.936	2.936		
D PCB-54L	20:12	3162909	0.80	0.5562	98.7	98.7	0.0286	0.0286	98.68	
* PCB-52L	24:46	8264898	0.81		100.0	100.0				
\$ PCB-79L	32:41	42309500	0.80	1.0018	387.7	387.7	0.1449	0.1449	96.92	
D PCB-81L	33:40	10335461	0.79	1.2470	100.3	100.3	0.1356	0.1356	100	
D PCB-77L	34:14	11450569	0.81	1.3212	104.9	104.9	0.1280	0.1280	105	
PCB-54	20:12	16256949	0.81	1.2733	403.7	403.7	0.0496	0.0496	101	
PCB-50	22:23	70687479	0.78	0.8578	756.5	756.5	3.781	3.781	94.56	
PCB-53 (C50)	22:23	70687479	0.78	0.8578	756.5	756.5	3.781	3.781	94.56	
PCB-45	23:07	69485788	0.79	0.8264	771.9	771.9	3.925	3.925	96.48	M
PCB-51 (C45)	23:07	69485788	0.79	0.8264	771.9	771.9	3.925	3.925	96.48	M
PCB-46	23:21	28834506	0.80	0.7101	372.8	372.8	4.568	4.568	93.20	
PCB-52	24:46	38354033	0.80	0.9194	383.0	383.0	3.528	3.528	95.74	
PCB-43	24:56	84403637	0.79	1.0333	749.8	749.8	3.139	3.139	93.73	M
PCB-73 (C43)	24:56	84403637	0.79	1.0333	749.8	749.8	3.139	3.139	93.73	M
PCB-49	25:13	86848614	0.79	1.0685	746.2	746.2	3.035	3.035	93.27	
PCB-69 (C49)	25:13	86848614	0.79	1.0685	746.2	746.2	3.035	3.035	93.27	
PCB-48	25:32	34271968	0.79	0.8399	374.6	374.6	3.862	3.862	93.65	
PCB-44	25:47	120748315	0.78	0.9731	1139.1	1139.1	3.333	3.333	94.93	
PCB-47 (C44)	25:47	120748315	0.78	0.9731	1139.1	1139.1	3.333	3.333	94.93	
PCB-65 (C44)	25:47	120748315	0.78	0.9731	1139.1	1139.1	3.333	3.333	94.93	
PCB-59	26:05	147870904	0.78	1.1853	1145.3	1145.3	2.737	2.737	95.44	
PCB-62 (C59)	26:05	147870904	0.78	1.1853	1145.3	1145.3	2.737	2.737	95.44	
PCB-75 (C59)	26:05	147870904	0.78	1.1853	1145.3	1145.3	2.737	2.737	95.44	
PCB-42	26:18	33116229	0.79	0.8097	375.5	375.5	4.006	4.006	93.87	
PCB-40	26:48	109543755	0.78	0.8863	1134.6	1134.6	3.659	3.659	94.55	M
PCB-41 (C40)	26:48	109543755	0.78	0.8863	1134.6	1134.6	3.659	3.659	94.55	M
PCB-71 (C40)	26:48	109543755	0.78	0.8863	1134.6	1134.6	3.659	3.659	94.55	M
PCB-64	27:00	47066920	0.79	1.1776	366.9	366.9	2.754	2.754	91.73	
PCB-72	27:51	45559809	0.80	1.0943	382.2	382.2	2.964	2.964	95.55	
PCB-68	28:08	52714819	0.78	1.2533	386.1	386.1	2.588	2.588	96.53	
PCB-57	28:33	45493698	0.78	1.0818	386.1	386.1	2.998	2.998	96.51	
PCB-58	28:47	56416890	0.79	1.3253	390.8	390.8	2.447	2.447	97.69	
PCB-67	28:57	58816773	0.79	1.4230	379.4	379.4	2.279	2.279	94.86	
PCB-63	29:13	45663130	0.79	1.1240	373.0	373.0	2.886	2.886	93.24	
PCB-61	29:33	211563594	0.78	1.2612	1539.9	1539.9	2.572	2.572	96.24	M
PCB-70 (C61)	29:33	211563594	0.78	1.2612	1539.9	1539.9	2.572	2.572	96.24	M
PCB-74 (C61)	29:33	211563594	0.78	1.2612	1539.9	1539.9	2.572	2.572	96.24	M
PCB-76 (C61)	29:33	211563594	0.78	1.2612	1539.9	1539.9	2.572	2.572	96.24	M
PCB-66	29:53	52981003	0.78	1.2583	386.5	386.5	2.578	2.578	96.64	
PCB-55	30:03	54230284	0.79	1.3236	376.1	376.1	2.450	2.450	94.03	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:33	50251634	0.79	1.2334	374.0	374.0	2.630	2.630	93.50	
PCB-60	30:46	45739750	0.79	1.1230	373.9	373.9	2.888	2.888	93.47	
PCB-80	31:10	54703996	0.80	1.3243	379.2	379.2	2.449	2.449	94.81	
PCB-79	32:41	58766091	0.79	1.4368	375.5	375.5	2.257	2.257	93.87	
PCB-78	33:15	46136888	0.78	1.1618	364.5	364.5	2.792	2.792	91.14	
PCB-81	33:41	42731408	0.79	1.0802	382.7	382.7	3.042	3.042	95.69	
PCB-77	34:15	45244571	0.79	1.0836	364.7	364.7	2.955	2.955	91.16	
S Total Pentachlorobiphenyls					18026	18026	1.410	1.410		
D PCB-104L	25:42	6672003	1.61	1.2161	97.4	97.4	0.0255	0.0255	97.39	
\$ PCB-95L	28:40	18806941	1.59	0.7218	390.5	390.5	0.0346	0.0346	97.63	
* PCB-101L	31:36	5633550	1.58		100.0	100.0				
\$ PCB-111L	34:17	27823366	1.60	1.3699	360.5	360.5	0.0226	0.0226	90.13	
D PCB-123L	36:15	10377703	1.58	0.9731	100.6	100.6	1.159	1.159	101	
D PCB-118L	36:34	10740248	1.60	1.0102	100.3	100.3	1.116	1.116	100	
D PCB-114L	37:06	10559524	1.60	0.9949	100.2	100.2	1.133	1.133	100	
D PCB-105L	37:44	10096861	1.59	0.9514	100.2	100.2	1.185	1.185	100	
* PCB-127L	39:13	10595355	1.61		100.0	100.0				
D PCB-126L	40:50	10103302	1.58	0.9439	101.0	101.0	1.195	1.195	101	
PCB-104	25:43	26991793	1.59	1.0087	401.1	401.1	0.0414	0.0414	100	
PCB-96	26:05	29124757	1.58	1.0940	399.0	399.0	0.0382	0.0382	99.75	
PCB-103	28:01	23026262	1.59	0.8741	394.8	394.8	0.0478	0.0478	98.70	
PCB-94	28:15	19293687	1.58	0.7640	378.5	378.5	0.0547	0.0547	94.62	
PCB-95	28:41	21743452	1.58	0.8033	405.7	405.7	0.0520	0.0520	101	
PCB-93	28:54	43937859	1.60	0.8429	781.3	781.3	0.0496	0.0496	97.66	
PCB-100 (C93)	28:54	43937859	1.60	0.8429	781.3	781.3	0.0496	0.0496	97.66	
PCB-98	29:04	43293553	1.58	0.8262	785.4	785.4	0.0506	0.0506	98.18	M
PCB-102 (C98)	29:04	43293553	1.58	0.8262	785.4	785.4	0.0506	0.0506	98.18	M
PCB-88	29:33	42407684	1.58	0.8013	793.2	793.2	0.0522	0.0522	99.15	
PCB-91 (C88)	29:33	42407684	1.58	0.8013	793.2	793.2	0.0522	0.0522	99.15	
PCB-84	29:46	18942616	1.58	0.7299	389.0	389.0	0.0573	0.0573	97.24	
PCB-89	30:15	19980724	1.60	0.7798	384.0	384.0	0.0536	0.0536	96.01	
PCB-121	30:40	34064929	1.60	1.2964	393.8	393.8	0.0322	0.0322	98.46	
PCB-92	31:02	22258079	1.58	0.8546	390.4	390.4	0.0489	0.0489	97.60	
PCB-90	31:36	75031128	1.59	0.9550	1177.6	1177.6	0.0438	0.0438	98.13	
PCB-101 (C90)	31:36	75031128	1.59	0.9550	1177.6	1177.6	0.0438	0.0438	98.13	
PCB-113 (C90)	31:36	75031128	1.59	0.9550	1177.6	1177.6	0.0438	0.0438	98.13	
PCB-83	32:12	44113984	1.58	0.8385	788.5	788.5	0.0499	0.0499	98.57	
PCB-99 (C83)	32:12	44113984	1.58	0.8385	788.5	788.5	0.0499	0.0499	98.57	
PCB-112	32:19	36244741	1.58	1.4111	385.0	385.0	0.0296	0.0296	96.24	
PCB-86	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-87 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-97 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-109 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-119 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-125 (C86)	32:41	167069124	1.61	1.0473	2391.0	2391.0	0.0399	0.0399	99.63	M
PCB-85	33:25	81508464	1.59	1.0408	1173.8	1173.8	0.0402	0.0402	97.81	
PCB-116 (C85)	33:25	81508464	1.59	1.0408	1173.8	1173.8	0.0402	0.0402	97.81	
PCB-117 (C85)	33:25	81508464	1.59	1.0408	1173.8	1173.8	0.0402	0.0402	97.81	
PCB-110	33:36	61605039	1.58	1.1919	774.7	774.7	0.0351	0.0351	96.84	M
PCB-115 (C110)	33:36	61605039	1.58	1.1919	774.7	774.7	0.0351	0.0351	96.84	M
PCB-82	33:54	21705824	1.60	0.8303	391.8	391.8	0.0504	0.0504	97.95	
PCB-111	34:19	31849869	1.58	1.2125	393.7	393.7	0.0345	0.0345	98.42	
PCB-120	34:47	38221427	1.58	1.4762	388.1	388.1	0.0283	0.0283	97.01	
PCB-108	35:54	91375734	1.59	1.1405	772.2	772.2	4.173	4.173	96.52	
PCB-124 (C108)	35:54	91375734	1.59	1.1405	772.2	772.2	4.173	4.173	96.52	
PCB-107	36:09	48169388	1.55	1.2121	383.0	383.0	3.926	3.926	95.76	
PCB-123	36:16	43726655	1.57	1.0722	393.0	393.0	4.294	4.294	98.24	
PCB-106	36:22	43503164	1.56	1.0839	386.8	386.8	4.390	4.390	96.71	
PCB-118	36:35	49487841	1.57	1.2055	382.2	382.2	3.812	3.812	95.55	
PCB-122	36:56	38072113	1.57	0.9567	383.5	383.5	4.974	4.974	95.89	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:07	44610183	1.56	1.0842	389.7	389.7	4.349	4.349	97.42	
PCB-105	37:46	45872125	1.58	1.1879	382.5	382.5	4.101	4.101	95.61	
PCB-127	39:14	46076121	1.57	1.1394	389.8	389.8	4.177	4.177	97.44	
PCB-126	40:51	44661015	1.58	1.0976	402.7	402.7	4.590	4.590	101	
S Total Hexachlorobiphenyls					16547	16547	1.592	1.592		
D PCB-155L	31:22	5892178	1.25	1.0851	96.4	96.4	0.0349	0.0349	96.39	
\$ PCB-153L	38:27	27374804	1.28	0.9169	348.1	348.1	0.8737	0.8737	87.02	
* PCB-138L	39:41	7155531	1.28		100.0	100.0				
\$ PCB-159L	41:56	4551409	1.30	0.5118	101.6	101.6	1.285	1.285	102	
D PCB-167L	42:42	8748546	1.27	1.2572	97.2	97.2	0.6533	0.6533	97.25	
D PCB-156L	43:50	16797326	1.28	1.2106	193.9	193.9	0.6785	0.6785	96.95	
D PCB-157L (C156L)	43:50	16797326	1.28	1.2106	193.9	193.9	0.6785	0.6785	96.95	
D PCB-169L	47:05	8761705	1.28	1.2439	98.4	98.4	0.6604	0.6604	98.44	
PCB-155	31:24	22251730	1.26	0.9444	399.9	399.9	0.0297	0.0297	99.97	
PCB-152	31:35	22836429	1.26	0.9895	391.7	391.7	0.0284	0.0284	97.92	
PCB-150	31:45	23890856	1.27	1.0132	400.2	400.2	0.0277	0.0277	100	
PCB-136	32:07	23743749	1.27	1.0116	398.4	398.4	0.0277	0.0277	99.59	
PCB-145	32:25	22672411	1.28	0.9685	397.3	397.3	0.0290	0.0290	99.33	
PCB-148	33:56	17957394	1.27	0.7603	400.9	400.9	0.0369	0.0369	100	
PCB-135	34:31	34125616	1.27	0.7256	798.2	798.2	0.0387	0.0387	99.78	M
PCB-151 (C135)	34:31	34125616	1.27	0.7256	798.2	798.2	0.0387	0.0387	99.78	M
PCB-154	34:47	19278459	1.26	0.8129	402.5	402.5	0.0345	0.0345	101	
PCB-144	35:05	18139372	1.26	0.7852	392.1	392.1	0.0357	0.0357	98.01	
PCB-147	35:27	59645820	1.26	0.8950	777.0	777.0	2.328	2.328	97.13	
PCB-149 (C147)	35:27	59645820	1.26	0.8950	777.0	777.0	2.328	2.328	97.13	
PCB-134	35:45	52378003	1.26	0.7967	766.5	766.5	2.615	2.615	95.82	
PCB-143 (C134)	35:45	52378003	1.26	0.7967	766.5	766.5	2.615	2.615	95.82	
PCB-139	36:03	59038438	1.26	0.8769	785.0	785.0	2.376	2.376	98.13	
PCB-140 (C139)	36:03	59038438	1.26	0.8769	785.0	785.0	2.376	2.376	98.13	
PCB-131	36:15	25806641	1.26	0.7503	401.0	401.0	2.777	2.777	100	
PCB-142	36:23	25727292	1.25	0.7507	399.6	399.6	2.775	2.775	99.89	
PCB-132	36:42	24603976	1.25	0.7489	383.0	383.0	2.782	2.782	95.76	
PCB-133	37:13	28247093	1.25	0.8096	406.8	406.8	2.574	2.574	102	
PCB-165	37:37	34588489	1.26	1.0247	393.5	393.5	2.033	2.033	98.39	
PCB-146	37:52	32748351	1.25	0.9637	396.2	396.2	2.162	2.162	99.05	
PCB-161	37:59	38113824	1.26	1.1288	393.7	393.7	1.846	1.846	98.42	
PCB-153	38:29	74572114	1.26	1.0938	794.9	794.9	1.905	1.905	99.36	
PCB-168 (C153)	38:29	74572114	1.26	1.0938	794.9	794.9	1.905	1.905	99.36	
PCB-141	38:40	29064533	1.26	0.8755	387.1	387.1	2.380	2.380	96.76	
PCB-130	39:04	23530162	1.26	0.7051	389.1	389.1	2.955	2.955	97.27	
PCB-137	39:18	25797296	1.25	0.7767	387.3	387.3	2.683	2.683	96.82	
PCB-164	39:25	35754648	1.27	1.0382	401.5	401.5	2.007	2.007	100	
PCB-129	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-138 (C129)	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-160 (C129)	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-163 (C129)	39:44	127135379	1.26	0.9464	1566.2	1566.2	2.202	2.202	97.89	M
PCB-158	40:06	43420955	1.27	1.3110	386.1	386.1	1.589	1.589	96.54	Ma
PCB-128	40:57	68077278	1.25	0.9829	807.5	807.5	2.120	2.120	101	
PCB-166 (C128)	40:57	68077278	1.25	0.9829	807.5	807.5	2.120	2.120	101	
PCB-159	41:58	46357455	1.25	1.3856	390.1	390.1	1.504	1.504	97.52	
PCB-162	42:15	41684795	1.25	1.2571	386.6	386.6	1.657	1.657	96.65	
PCB-167	42:43	37916934	1.25	1.1159	388.4	388.4	1.533	1.533	97.10	
PCB-156	43:52	73585151	1.25	1.1104	789.0	789.0	2.343	2.343	98.63	
PCB-157 (C156)	43:52	73585151	1.25	1.1104	789.0	789.0	2.343	2.343	98.63	
PCB-169	47:05	39746833	1.28	1.1628	390.1	390.1	1.518	1.518	97.53	
S Total Heptachlorobiphenyls					9335.4	9335.4	0.0337	0.0337		
D PCB-188L	37:06	7006215	1.08	1.3133	100.5	100.5	0.0452	0.0452	100	
\$ PCB-178L	40:09	20165082	1.08	1.0313	368.2	368.2	0.0575	0.0575	92.06	
* PCB-180L	45:14	5309833	1.07		100.0	100.0				



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:30	4386822	1.04	0.8362	98.8	98.8	0.0709	0.0709	98.80	
D PCB-189L	49:36	10502203	1.06	1.4414	99.5	99.5	0.5233	0.5233	99.49	
PCB-188	37:07	30886057	1.06	1.1350	388.4	388.4	0.0130	0.0130	97.10	
PCB-179	37:28	31130650	1.06	1.4276	382.8	382.8	0.0130	0.0130	95.70	
PCB-184	37:59	31018294	1.06	1.3672	398.3	398.3	0.0135	0.0135	99.57	
PCB-176	38:20	27007633	1.05	1.2331	384.5	384.5	0.0150	0.0150	96.12	
PCB-186	38:48	33163682	1.05	1.4737	395.0	395.0	0.0126	0.0126	98.76	
PCB-178	40:10	20314842	1.05	0.8946	398.6	398.6	0.0207	0.0207	99.66	
PCB-175	40:48	21220414	1.05	0.9524	391.1	391.1	0.0194	0.0194	97.78	
PCB-187	41:05	24989319	1.05	1.1018	398.1	398.1	0.0168	0.0168	99.53	
PCB-182	41:17	21292850	1.06	0.9247	404.2	404.2	0.0200	0.0200	101	
PCB-183	41:42	41853835	1.07	0.9825	747.8	747.8	0.0188	0.0188	93.48	Ma
PCB-185 (C183)	41:42	41853835	1.07	0.9825	747.8	747.8	0.0188	0.0188	93.48	Ma
PCB-174	41:56	21783169	1.05	0.9642	396.6	396.6	0.0192	0.0192	99.15	
PCB-177	42:22	21710754	1.05	0.9773	390.0	390.0	0.0189	0.0189	97.50	
PCB-181	42:45	21004998	1.04	0.9505	387.9	387.9	0.0195	0.0195	96.98	
PCB-171	42:58	39921079	1.06	0.9336	750.6	750.6	0.0198	0.0198	93.83	
PCB-173 (C171)	42:58	39921079	1.06	0.9336	750.6	750.6	0.0198	0.0198	93.83	
PCB-172	44:37	18849904	1.05	0.8519	388.4	388.4	0.0217	0.0217	97.11	
PCB-192	44:54	30290999	1.06	1.3459	395.1	395.1	0.0138	0.0138	98.77	
PCB-180	45:14	51963197	1.06	1.1676	781.3	781.3	0.0159	0.0159	97.66	
PCB-193 (C180)	45:14	51963197	1.06	1.1676	781.3	781.3	0.0159	0.0159	97.66	
PCB-191	45:37	29149341	1.05	1.2891	396.9	396.9	0.0144	0.0144	99.24	
PCB-170	46:31	19833085	1.07	1.1865	381.0	381.0	0.0211	0.0211	95.26	
PCB-190	47:02	29063711	1.07	1.3322	383.0	383.0	0.0139	0.0139	95.74	
PCB-189	49:38	40021622	1.05	0.9633	395.6	395.6	0.3673	0.3673	98.90	
S Total Octachlorobiphenyls					4709.7	4709.7	0.5380	0.5380		
D PCB-202L	42:28	5079458	0.91	0.9818	97.4	97.4	0.0159	0.0159	97.43	
* PCB-194L	51:43	7323260	0.91		100.0	100.0				
D PCB-205L	52:11	8638618	0.92	1.1786	100.1	100.1	0.0710	0.0710	100	
PCB-202	42:29	21547219	0.90	1.0359	409.5	409.5	0.0265	0.0265	102	
PCB-201	43:24	19791616	0.91	0.9754	399.5	399.5	0.0281	0.0281	99.87	
PCB-204	44:05	20940493	0.90	1.0485	393.2	393.2	0.0262	0.0262	98.30	
PCB-197	44:19	22095397	0.90	1.1458	379.6	379.6	0.0239	0.0239	94.91	
PCB-200	44:25	20163621	0.92	1.0072	394.1	394.1	0.0272	0.0272	98.53	
PCB-198	47:12	34466252	0.90	0.8698	780.1	780.1	0.0315	0.0315	97.52	
PCB-199 (C198)	47:12	34466252	0.90	0.8698	780.1	780.1	0.0315	0.0315	97.52	
PCB-196	47:53	15393419	0.91	0.7806	388.2	388.2	0.0351	0.0351	97.05	
PCB-203	48:05	18781869	0.91	0.9292	397.9	397.9	0.0295	0.0295	99.48	
PCB-195	49:24	28114967	0.90	0.8263	393.9	393.9	2.181	2.181	98.47	
PCB-194	51:44	32373452	0.89	0.9735	385.0	385.0	1.852	1.852	96.24	
PCB-205	52:13	36524269	0.91	1.0878	388.7	388.7	1.657	1.657	97.17	
S Total Nonachlorobiphenyls					1133.6	1133.6	0.5639	0.5639		
D PCB-208L	49:08	7135804	0.80	0.9576	101.8	101.8	0.2341	0.2341	102	
D PCB-206L	53:56	5087280	0.82	0.6947	100.0	100.0	0.3227	0.3227	100	
PCB-208	49:10	31300386	0.78	1.1374	385.6	385.6	0.5345	0.5345	96.41	
PCB-207	50:05	31656277	0.79	1.3756	376.5	376.5	0.5166	0.5166	94.14	
PCB-206	53:58	25218974	0.79	1.3346	371.4	371.4	0.6407	0.6407	92.86	
D PCB-209L	55:35	4867564	0.71	0.6669	99.7	99.7	0.0649	0.0649	99.67	
DCB Decachlorobiphenyl	55:36	20909699	0.71	1.1004	390.4	390.4	0.0167	0.0167	97.59	
S Polychlorinated biphenyls, Total					80103	80103	1.016	1.016		

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L41668P\_00006

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d  
Lims ID: IC L5  
Client ID:  
Sample Type: IC Calib Level: 5  
Inject. Date: 31-May-2024 20:12:00 ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-005  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:28:19 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: V4XA

Date: 01-Jun-2024 03:02:33

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	-1	0.726	10499896	4198021	10819	27047	388		
202.0766	11:36	11:36	-1	0.726	3320541	1323401	3105	7762	426	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:45	13:46	-1	0.861	10518916	3643335	10819	27047	337		
202.0766	13:45	13:46	-1	0.861	3284790	1138975	3105	7762	367	3.20(2.66-3.60)	
PCB-1											
188.0393	11:36	11:37	-1	1.001	52567345	21590493	21610	54025	999		
190.0363	11:36	11:37	-1	1.001	16002054	6532639	6987	17467	935	3.29(2.66-3.60)	
PCB-2											
188.0393	13:36	13:36	-1	0.989	51348814	17597324	21610	54025	814		
190.0363	13:36	13:36	-1	0.989	15769122	5303272	6987	17467	759	3.26(2.66-3.60)	
PCB-3											
188.0393	13:46	13:47	-1	1.001	51380244	17946321	21610	54025	830		
190.0363	13:46	13:47	-1	1.001	15887521	5461066	6987	17467	782	3.23(2.66-3.60)	
PCB-4L											
234.0406	14:01	14:02	-1	0.877	3393758	1102554	615	1537	1793		
236.0376	14:01	14:02	-1	0.877	2167860	702670	180	450	3904	1.57(1.33-1.79)	
PCB-9L											
234.0406	15:58	15:59	-1		5411179	1596131	615	1537	2595		
236.0376	15:58	15:59	-1		3346979	1007278	180	450	5596	1.62(1.33-1.79)	
PCB-8L											
234.0406	16:48	16:50	-2	1.199	20947142	5874636	615	1537	9552		
236.0376	16:48	16:50	-2	1.199	13011177	3675874	180	450	20422	1.61(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:53	19:54	-1	1.245	5935483	1491131	615	1537	2425		
236.0376	19:53	19:54	-1	1.245	3639719	917458	180	450	5097	1.63(1.33-1.79)	
PCB-4											
222.0003	14:02	14:02	-1	1.001	17125120	5792666	139	347	41674		
223.9974	14:02	14:02	-1	1.001	10765213	3590885	176	440	20403	1.59(1.33-1.79)	
PCB-10											
222.0003	14:12	14:13	-1	1.013	23788672	7684901	139	347	55287		
223.9974	14:12	14:13	-1	1.013	14866896	4745168	176	440	26961	1.60(1.33-1.79)	
PCB-9											
222.0003	15:59	16:00	-1	1.141	25947466	7827851	139	347	56315		
223.9974	15:59	16:00	-1	1.141	16234407	4866647	176	440	27651	1.60(1.33-1.79)	
PCB-7											
222.0003	16:09	16:10	-1	1.153	25344499	7265656	139	347	52271		
223.9974	16:09	16:10	-2	1.152	15837956	4529524	176	440	25736	1.60(1.33-1.79)	
PCB-6											
222.0003	16:24	16:25	-2	1.170	27732482	8207660	139	347	59048		
223.9974	16:24	16:25	-2	1.170	17247156	5056931	176	440	28733	1.61(1.33-1.79)	
PCB-5											
222.0003	16:42	16:43	-2	1.192	24668749	7089107	139	347	51001		
223.9974	16:42	16:43	-2	1.192	15351789	4393456	176	440	24963	1.61(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	-1	1.201	28996587	8328197	139	347	59915		
223.9974	16:50	16:50	-1	1.201	18035229	5152470	176	440	29275	1.61(1.33-1.79)	
PCB-14											
222.0003	18:27	18:28	-1	0.927	25213771	6854207	139	347	49311		
223.9974	18:27	18:28	-1	0.927	15800170	4277730	176	440	24305	1.60(1.33-1.79)	
PCB-11											
222.0003	19:17	19:18	-1	0.970	23488532	6267377	139	347	45089		
223.9974	19:17	19:18	-1	0.970	14664692	3910870	176	440	22221	1.60(1.33-1.79)	
PCB-12											
222.0003	19:35	19:36	-2	0.984	49408565	8392868	139	347	60380		
223.9974	19:35	19:36	-2	0.984	30740962	5217436	176	440	29645	1.61(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:35	19:36	-2	0.984	49408565	8392868	139	347	60380		
223.9974	19:35	19:36	-2	0.984	30740962	5217436	176	440	29645	1.61(1.33-1.79)	
PCB-15											
222.0003	19:54	19:55	-1	1.001	29162144	7221687	139	347	51955		
223.9974	19:54	19:55	-1	1.001	18121668	4507472	176	440	25611	1.61(1.33-1.79)	
PCB-19L											
268.0016	17:06	17:08	-2	0.840	1829473	502199	905	2262	555		
269.9986	17:06	17:08	-2	0.840	1708460	470154	1528	3820	308	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:22	20:23	-1		3018197	723962	905	2262	800		
269.9986	20:22	20:23	-1		2744127	692559	1528	3820	453	1.10(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:37	22:38	-1		8581779	2065110	874	2185	2363		
269.9986	22:37	22:38	-1		8155969	1968392	556	1390	3540	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:55	22:56	-1	1.013	32391092	7626916	874	2185	8726		
269.9986	22:55	22:56	-1	1.013	30729436	7307491	556	1390	13143	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:55	26:55	-1	1.189	7573702	1631541	874	2185	1867		
269.9986	26:55	26:55	-1	1.189	7157103	1570970	556	1390	2825	1.06(0.88-1.20)	
PCB-19											
255.9613	17:08	17:09	-1	1.002	9275969	2592939	66	165	39287		
257.9584	17:08	17:09	-1	1.002	8735123	2454816	79	197	31074	1.06(0.88-1.20)	
PCB-18											
255.9613	18:58	18:59	-1	1.109	25519771	4914657	66	165	74465		
257.9584	18:57	18:59	-2	1.108	24164184	4688146	79	197	59344	1.06(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:58	18:59	-1	1.109	25519771	4914657	66	165	74465		
257.9584	18:57	18:59	-2	1.108	24164184	4688146	79	197	59344	1.06(0.88-1.20)	
PCB-17											
255.9613	19:24	19:26	-2	1.135	8919519	2281516	66	165	34568		
257.9584	19:24	19:26	-2	1.135	8419638	2152476	79	197	27247	1.06(0.88-1.20)	
PCB-27											
255.9613	19:38	19:39	-1	1.148	13533947	3445740	66	165	52208		
257.9584	19:38	19:39	-1	1.148	12826715	3262599	79	197	41299	1.06(0.88-1.20)	
PCB-24											
255.9613	19:45	19:46	-1	1.155	12241488	3105438	66	165	47052		
257.9584	19:45	19:46	-1	1.155	11698263	2945413	79	197	37284	1.05(0.88-1.20)	
PCB-16											
255.9613	19:52	19:53	-1	1.162	8226613	2110810	66	165	31982		
257.9584	19:52	19:53	-1	1.162	7815264	1959309	79	197	24801	1.05(0.88-1.20)	
PCB-32											
255.9613	20:23	20:23	-1	1.192	13256398	3275466	66	165	49628		
257.9584	20:23	20:23	-1	1.192	12621033	3130282	79	197	39624	1.05(0.88-1.20)	
PCB-34											
255.9613	21:38	21:39	-1	1.265	32745543	8016693	23154	57885	346		
257.9584	21:38	21:39	-1	1.265	30988031	7632742	22151	55377	345	1.06(0.88-1.20)	
PCB-23											
255.9613	21:48	21:48	-1	1.274	30315107	7381738	23154	57885	319		
257.9584	21:48	21:48	-1	1.274	29058041	7037873	22151	55377	318	1.04(0.88-1.20)	
PCB-26											
255.9613	22:07	22:08	-1	1.293	66680760	14331555	23154	57885	619		
257.9584	22:07	22:08	-1	1.293	63613904	13616308	22151	55377	615	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:07	22:08	-1	1.293	66680760	14331555	23154	57885	619		
257.9584	22:07	22:08	-1	1.293	63613904	13616308	22151	55377	615	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:20	22:21	-1	0.830	36470489	8333326	23154	57885	360		
257.9584	22:20	22:21	-1	0.830	34672568	7829965	22151	55377	353	1.05(0.88-1.20)	
PCB-31											
255.9613	22:39	22:40	-1	0.842	32476974	7710222	23154	57885	333		
257.9584	22:39	22:40	-1	0.842	31254193	7419289	22151	55377	335	1.04(0.88-1.20)	
PCB-20											
255.9613	22:57	22:58	-1	0.853	68894723	13821483	23154	57885	597		
257.9584	22:57	22:58	-1	0.853	66461968	13383374	22151	55377	604	1.04(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:58	-1	0.853	68894723	13821483	23154	57885	597		
257.9584	22:57	22:58	-1	0.853	66461968	13383374	22151	55377	604	1.04(0.88-1.20)	
PCB-21											
255.9613	23:07	23:07	-1	0.859	61897185	7846418	23154	57885	339		M
257.9584	23:07	23:07	-1	0.859	59869797	7552076	22151	55377	341	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:07	23:07	-1	0.859	61897185	7846418	23154	57885	339		M
257.9584	23:07	23:07	-1	0.859	59869797	7552076	22151	55377	341	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:34	23:35	-1	0.876	34499171	8137093	23154	57885	351		
257.9584	23:34	23:35	-1	0.876	32697523	7673610	22151	55377	346	1.06(0.88-1.20)	
PCB-36											
255.9613	25:08	25:09	-1	0.934	31347288	6777980	23154	57885	293		
257.9584	25:08	25:09	-1	0.934	29995275	6531454	22151	55377	295	1.05(0.88-1.20)	
PCB-39											
255.9613	25:29	25:30	-1	0.947	33790805	7562066	23154	57885	327		
257.9584	25:29	25:30	-1	0.947	32143311	7157383	22151	55377	323	1.05(0.88-1.20)	
PCB-38											
255.9613	26:04	26:05	-1	0.969	31803876	7164978	23154	57885	309		
257.9584	26:04	26:05	-1	0.969	30144606	6756682	22151	55377	305	1.06(0.88-1.20)	
PCB-35											
255.9613	26:32	26:32	-1	0.986	32910785	7272006	23154	57885	314		
257.9584	26:32	26:32	-1	0.986	32093687	6905650	22151	55377	312	1.03(0.88-1.20)	
PCB-37											
255.9613	26:56	26:57	-1	1.001	32362844	7155081	23154	57885	309		
257.9584	26:56	26:57	-1	1.001	30917415	6830742	22151	55377	308	1.05(0.88-1.20)	
PCB-54L											
301.9626	20:12	20:12	-1	0.816	1405547	341568	84	210	4066		
303.9597	20:12	20:12	-1	0.816	1757362	428899	6	15	71483	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:46	24:46	-1		3693083	829495	597	1492	1389		
303.9597	24:46	24:46	-1		4571815	1012108	649	1622	1559	0.81(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.971	18813935	3902461	597	1492	6537		
303.9597	32:41	32:41	0	0.971	23495565	4853340	649	1622	7478	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:40	33:41	-1	1.360	4569478	932159	597	1492	1561		
303.9597	33:40	33:41	-1	1.360	5765983	1185814	649	1622	1827	0.79(0.65-0.89)	
PCB-77L											
301.9626	34:14	34:14	-1	1.382	5138114	984600	597	1492	1649		
303.9597	34:14	34:14	-1	1.382	6312455	1189506	649	1622	1833	0.81(0.65-0.89)	
PCB-54											
289.9224	20:12	20:13	-1	1.000	7283061	1843939	51	127	36156		
291.9194	20:12	20:13	-1	1.000	8973888	2249882	144	360	15624	0.81(0.65-0.89)	
PCB-50											
289.9224	22:23	22:24	-1	1.108	31048634	6450170	11985	29962	538		
291.9194	22:23	22:24	-1	1.108	39638845	8263179	15858	39645	521	0.78(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:24	-1	1.108	31048634	6450170	11985	29962	538		
291.9194	22:23	22:24	-1	1.108	39638845	8263179	15858	39645	521	0.78(0.65-0.89)	
PCB-45											
289.9224	23:07	23:08	-1	1.145	30645858	3968119	11985	29962	331		M
291.9194	23:07	23:08	-1	1.145	38839930	4973541	15858	39645	314	0.79(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:07	23:08	-1	1.145	30645858	3968119	11985	29962	331		M
291.9194	23:07	23:08	-1	1.145	38839930	4973541	15858	39645	314	0.79(0.65-0.89)	M
PCB-46											
289.9224	23:21	23:22	-1	1.157	12780266	3004695	11985	29962	251		
291.9194	23:21	23:22	-1	1.157	16054240	3753956	15858	39645	237	0.80(0.65-0.89)	
PCB-52											
289.9224	24:46	24:47	-1	1.227	16997835	3818410	11985	29962	319		
291.9194	24:46	24:47	-1	1.227	21356198	4841032	15858	39645	305	0.80(0.65-0.89)	
PCB-43											
289.9224	24:56	24:56	-1	1.234	37178269	4927779	11985	29962	411		M
291.9194	24:56	24:56	-1	1.234	47225368	6296996	15858	39645	397	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:56	24:56	-1	1.234	37178269	4927779	11985	29962	411		M
291.9194	24:56	24:56	-1	1.234	47225368	6296996	15858	39645	397	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:13	25:14	-1	1.249	38275650	5858472	11985	29962	489		
291.9194	25:13	25:14	-1	1.249	48572964	7397560	15858	39645	466	0.79(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:13	25:14	-1	1.249	38275650	5858472	11985	29962	489		
291.9194	25:13	25:14	-1	1.249	48572964	7397560	15858	39645	466	0.79(0.65-0.89)	
PCB-48											
289.9224	25:32	25:33	-1	1.265	15119844	3404443	11985	29962	284		
291.9194	25:32	25:33	-1	1.265	19152124	4315899	15858	39645	272	0.79(0.65-0.89)	
PCB-44											
289.9224	25:47	25:48	-1	1.277	53047964	9666463	11985	29962	807		
291.9194	25:47	25:48	-1	1.277	67700351	12358426	15858	39645	779	0.78(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:47	25:48	-1	1.277	53047964	9666463	11985	29962	807		
291.9194	25:47	25:48	-1	1.277	67700351	12358426	15858	39645	779	0.78(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:48	-1	1.277	53047964	9666463	11985	29962	807		
291.9194	25:47	25:48	-1	1.277	67700351	12358426	15858	39645	779	0.78(0.65-0.89)	
PCB-59											
289.9224	26:05	26:06	-1	1.292	64900099	9573023	11985	29962	799		
291.9194	26:05	26:06	-1	1.292	82970805	12200986	15858	39645	769	0.78(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:05	26:06	-1	1.292	64900099	9573023	11985	29962	799		
291.9194	26:05	26:06	-1	1.292	82970805	12200986	15858	39645	769	0.78(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:05	26:06	-1	1.292	64900099	9573023	11985	29962	799		
291.9194	26:05	26:06	-1	1.292	82970805	12200986	15858	39645	769	0.78(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	-1	1.302	14647872	3288662	11985	29962	274		
291.9194	26:18	26:18	-1	1.302	18468357	4131349	15858	39645	261	0.79(0.65-0.89)	
PCB-40											
289.9224	26:48	26:48	-1	1.327	48057577	7516308	11985	29962	627		M
291.9194	26:48	26:48	-1	1.327	61486178	9580775	15858	39645	604	0.78(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:48	26:48	-1	1.327	48057577	7516308	11985	29962	627		M
291.9194	26:48	26:48	-1	1.327	61486178	9580775	15858	39645	604	0.78(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:48	26:48	-1	1.327	48057577	7516308	11985	29962	627		M
291.9194	26:48	26:48	-1	1.327	61486178	9580775	15858	39645	604	0.78(0.65-0.89)	M
PCB-64											
289.9224	27:00	27:01	-1	1.337	20703479	4478816	11985	29962	374		
291.9194	27:00	27:01	-1	1.337	26363441	5720820	15858	39645	361	0.79(0.65-0.89)	
PCB-72											
289.9224	27:51	27:51	-1	0.827	20184549	4428709	11985	29962	370		
291.9194	27:51	27:51	-1	0.827	25375260	5665296	15858	39645	357	0.80(0.65-0.89)	
PCB-68											
289.9224	28:08	28:09	-1	0.836	23058556	4670938	11985	29962	390		
291.9194	28:08	28:09	-1	0.836	29656263	5939346	15858	39645	375	0.78(0.65-0.89)	
PCB-57											
289.9224	28:33	28:34	-1	0.848	19971461	4310538	11985	29962	360		
291.9194	28:33	28:34	-1	0.848	25522237	5486100	15858	39645	346	0.78(0.65-0.89)	
PCB-58											
289.9224	28:47	28:48	-1	0.855	24841978	5171706	11985	29962	432		
291.9194	28:47	28:48	-1	0.855	31574912	6628287	15858	39645	418	0.79(0.65-0.89)	
PCB-67											
289.9224	28:57	28:58	-1	0.860	25918946	5245140	11985	29962	438		
291.9194	28:57	28:58	-1	0.860	32897827	6710193	15858	39645	423	0.79(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:13	29:14	0	0.868	20163244	4147399	11985	29962	346		
291.9194	29:13	29:14	0	0.868	25499886	5242981	15858	39645	331	0.79(0.65-0.89)	
PCB-61											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-70 (C61)											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-74 (C61)											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-76 (C61)											
289.9224	29:33	29:34	-1	0.878	92572268	10911381	11985	29962	910		M
291.9194	29:33	29:34	-1	0.878	118991326	14173722	15858	39645	894	0.78(0.65-0.89)	M
PCB-66											
289.9224	29:53	29:53	-1	0.887	23297327	4782605	11985	29962	399		
291.9194	29:53	29:53	-1	0.887	29683676	6147242	15858	39645	388	0.78(0.65-0.89)	
PCB-55											
289.9224	30:03	30:03	0	0.892	23868544	5020534	11985	29962	419		
291.9194	30:03	30:03	0	0.892	30361740	6401441	15858	39645	404	0.79(0.65-0.89)	
PCB-56											
289.9224	30:33	30:33	-1	0.907	22138128	4649879	11985	29962	388		
291.9194	30:33	30:33	-1	0.907	28113506	5940457	15858	39645	375	0.79(0.65-0.89)	
PCB-60											
289.9224	30:46	30:46	-1	0.914	20162897	4129204	11985	29962	345		
291.9194	30:46	30:46	-1	0.914	25576853	5248560	15858	39645	331	0.79(0.65-0.89)	
PCB-80											
289.9224	31:10	31:11	-1	0.926	24248510	4869692	11985	29962	406		
291.9194	31:10	31:11	-1	0.926	30455486	6161428	15858	39645	389	0.80(0.65-0.89)	
PCB-79											
289.9224	32:41	32:42	-1	0.971	25881910	4980417	11985	29962	416		
291.9194	32:41	32:42	-1	0.971	32884181	6368136	15858	39645	402	0.79(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.988	20252892	4013245	11985	29962	335		
291.9194	33:15	33:15	0	0.988	25883996	5184409	15858	39645	327	0.78(0.65-0.89)	
PCB-81											
289.9224	33:41	33:42	-1	1.001	18823030	3711092	11985	29962	310		
291.9194	33:41	33:42	-1	1.001	23908378	4671043	15858	39645	295	0.79(0.65-0.89)	
PCB-77											
289.9224	34:15	34:16	-1	1.001	19939084	4035093	11985	29962	337		
291.9194	34:15	34:16	-1	1.001	25305487	5095681	15858	39645	321	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:42	25:42	-1	0.813	4115986	911822	113	282	8069		
339.9178	25:42	25:42	-1	0.813	2556017	571161	35	87	16319	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:40	28:41	-1	1.116	11552735	2434662	113	282	21546		
339.9178	28:40	28:41	-1	1.116	7254206	1533843	35	87	43824	1.59(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		3450720	735833	113	282	6512		
339.9178	31:36	31:37	-1		2182830	457789	35	87	13080	1.58(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	17118191	3425571	113	282	30315		
339.9178	34:17	34:17	0	1.085	10705175	2157409	35	87	61640	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.147	6356450	1285843	5518	13795	233		
339.9178	36:15	36:15	0	1.147	4021253	802670	3723	9307	216	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6609999	1288487	5518	13795	234		
339.9178	36:34	36:34	0	1.157	4130249	804055	3723	9307	216	1.60(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.174	6505303	1259091	5518	13795	228		
339.9178	37:05	37:06	-1	1.173	4054221	780103	3723	9307	210	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	0	1.194	6192666	1207667	5518	13795	219		
339.9178	37:44	37:45	0	1.194	3904195	766070	3723	9307	206	1.59(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		6530367	1264882	5518	13795	229		
339.9178	39:13	39:14	-1		4064988	784130	3723	9307	211	1.61(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	6183273	1168925	5518	13795	212		
339.9178	40:50	40:50	0	1.292	3920029	739706	3723	9307	199	1.58(1.32-1.78)	
PCB-104											
325.8804	25:43	25:44	-1	1.001	16562646	3648861	176	440	20732		
327.8775	25:43	25:44	-1	1.001	10429147	2298692	72	180	31926	1.59(1.32-1.78)	
PCB-96											
325.8804	26:05	26:06	-1	1.015	17827479	3965370	176	440	22531		
327.8775	26:05	26:06	-1	1.015	11297278	2491538	72	180	34605	1.58(1.32-1.78)	
PCB-103											
325.8804	28:01	28:02	-1	1.091	14134986	3012600	176	440	17117		
327.8775	28:01	28:02	-1	1.091	8891276	1894090	72	180	26307	1.59(1.32-1.78)	
PCB-94											
325.8804	28:15	28:16	-1	1.100	11807228	2514482	176	440	14287		
327.8775	28:15	28:16	-1	1.100	7486459	1593487	72	180	22132	1.58(1.32-1.78)	
PCB-95											
325.8804	28:41	28:42	-1	1.117	13331631	2886470	176	440	16400		
327.8775	28:41	28:42	-1	1.117	8411821	1793743	72	180	24913	1.58(1.32-1.78)	
PCB-93											
325.8804	28:54	28:55	-1	1.125	27011792	5525339	176	440	31394		
327.8775	28:54	28:55	-1	1.125	16926067	3451625	72	180	47939	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:54	28:55	-1	1.125	27011792	5525339	176	440	31394		
327.8775	28:54	28:55	-1	1.125	16926067	3451625	72	180	47939	1.60(1.32-1.78)	
PCB-98											
325.8804	29:04	29:04	-1	1.131	26531184	3329904	176	440	18920		M
327.8775	29:04	29:04	-1	1.131	16762369	2086308	72	180	28977	1.58(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:04	29:04	-1	1.131	26531184	3329904	176	440	18920		M
327.8775	29:04	29:04	-1	1.131	16762369	2086308	72	180	28977	1.58(1.32-1.78)	M
PCB-88											
325.8804	29:33	29:33	-1	1.150	25981572	2825522	176	440	16054		
327.8775	29:33	29:33	-1	1.150	16426112	1780698	72	180	24732	1.58(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	25981572	2825522	176	440	16054		
327.8775	29:33	29:33	-1	1.150	16426112	1780698	72	180	24732	1.58(1.32-1.78)	
PCB-84											
325.8804	29:46	29:47	-1	1.159	11604519	2389938	176	440	13579		
327.8775	29:46	29:47	-1	1.159	7338097	1530570	72	180	21258	1.58(1.32-1.78)	
PCB-89											
325.8804	30:15	30:16	-1	1.177	12282608	2577865	176	440	14647		
327.8775	30:15	30:16	-1	1.177	7698116	1591552	72	180	22105	1.60(1.32-1.78)	
PCB-121											
325.8804	30:40	30:41	-1	1.194	20949740	4299713	176	440	24430		
327.8775	30:40	30:41	-1	1.194	13115189	2699710	72	180	37496	1.60(1.32-1.78)	
PCB-92											
325.8804	31:02	31:03	-1	0.856	13645980	2811326	176	440	15973		
327.8775	31:02	31:03	-1	0.856	8612099	1789982	72	180	24861	1.58(1.32-1.78)	
PCB-90											
325.8804	31:36	31:37	-1	1.230	46067511	6768862	176	440	38459		
327.8775	31:36	31:37	-1	1.230	28963617	4274615	72	180	59370	1.59(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:36	31:37	-1	1.230	46067511	6768862	176	440	38459		
327.8775	31:36	31:37	-1	1.230	28963617	4274615	72	180	59370	1.59(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:36	31:37	-1	1.230	46067511	6768862	176	440	38459		
327.8775	31:36	31:37	-1	1.230	28963617	4274615	72	180	59370	1.59(1.32-1.78)	
PCB-83											
325.8804	32:12	32:13	-1	1.253	27000672	3432014	176	440	19500		
327.8775	32:12	32:13	-1	1.253	17113312	2164383	72	180	30061	1.58(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:13	-1	1.253	27000672	3432014	176	440	19500		
327.8775	32:12	32:13	-1	1.253	17113312	2164383	72	180	30061	1.58(1.32-1.78)	
PCB-112											
325.8804	32:19	32:20	-1	1.258	22203726	4464855	176	440	25368		
327.8775	32:19	32:20	-1	1.258	14041015	2797768	72	180	38858	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:41	32:42	-1	1.272	103164202	11354840	176	440	64516		M
327.8775	32:41	32:42	-1	1.272	63904922	7000207	72	180	97225	1.61(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.301	49981854	6095286	176	440	34632		
327.8775	33:24	33:25	-1	1.300	31526610	3836023	72	180	53278	1.59(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.301	49981854	6095286	176	440	34632		
327.8775	33:24	33:25	-1	1.300	31526610	3836023	72	180	53278	1.59(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.301	49981854	6095286	176	440	34632		
327.8775	33:24	33:25	-1	1.300	31526610	3836023	72	180	53278	1.59(1.32-1.78)	
PCB-110											M
325.8804	33:36	33:37	-1	1.308	37768952	4514296	176	440	25649		
327.8775	33:36	33:37	-1	1.308	23836087	2803436	72	180	38937	1.58(1.32-1.78)	M
PCB-115 (C110)											M
325.8804	33:36	33:37	-1	1.308	37768952	4514296	176	440	25649		
327.8775	33:36	33:37	-1	1.308	23836087	2803436	72	180	38937	1.58(1.32-1.78)	M
PCB-82											
325.8804	33:54	33:55	-1	1.320	13353583	2566933	176	440	14585		
327.8775	33:54	33:55	-1	1.320	8352241	1610559	72	180	22369	1.60(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.336	19497058	3905402	176	440	22190		
327.8775	34:19	34:19	0	1.336	12352811	2477599	72	180	34411	1.58(1.32-1.78)	
PCB-120											
325.8804	34:47	34:47	0	1.354	23386560	4679515	176	440	26588		
327.8775	34:46	34:47	-1	1.353	14834867	2964250	72	180	41170	1.58(1.32-1.78)	
PCB-108											
325.8804	35:54	35:55	-1	1.397	56112216	10894674	23384	58460	466		
327.8775	35:54	35:55	-1	1.397	35263518	6847660	15078	37695	454	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:54	35:55	-1	1.397	56112216	10894674	23384	58460	466		
327.8775	35:54	35:55	-1	1.397	35263518	6847660	15078	37695	454	1.59(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.407	29263623	5567936	23384	58460	238		
327.8775	36:09	36:09	0	1.407	18905765	3537259	15078	37695	235	1.55(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	26699152	5186378	23384	58460	222		
327.8775	36:16	36:16	0	1.001	17027503	3294302	15078	37695	218	1.57(1.32-1.78)	
PCB-106											
325.8804	36:22	36:23	-1	1.004	26537350	5306112	23384	58460	227		
327.8775	36:22	36:23	-1	1.004	16965814	3365227	15078	37695	223	1.56(1.32-1.78)	
PCB-118											
325.8804	36:35	36:36	-1	1.000	30206837	5637865	23384	58460	241		
327.8775	36:35	36:36	-1	1.000	19281004	3593433	15078	37695	238	1.57(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	23233300	4707830	23384	58460	201		
327.8775	36:56	36:56	0	1.010	14838813	2965557	15078	37695	197	1.57(1.32-1.78)	
PCB-114											
325.8804	37:07	37:08	-1	1.000	27187817	5064584	23384	58460	217		
327.8775	37:07	37:08	-1	1.000	17422366	3235541	15078	37695	215	1.56(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	28114444	5318905	23384	58460	227		
327.8775	37:46	37:46	0	1.001	17757681	3322599	15078	37695	220	1.58(1.32-1.78)	
PCB-127											
325.8804	39:14	39:15	0	1.040	28164286	5242721	23384	58460	224		
327.8775	39:14	39:15	0	1.040	17911835	3295039	15078	37695	219	1.57(1.32-1.78)	
PCB-126											
325.8804	40:51	40:52	-1	1.000	27357863	4711472	23384	58460	201		
327.8775	40:51	40:52	-1	1.000	17303152	2992269	15078	37695	198	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:23	-1	0.791	3272192	675452	81	202	8339		
373.8788	31:22	31:23	-1	0.791	2619986	560781	100	250	5608	1.25(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:27	0	0.901	15384626	3011029	2447	6117	1230		
373.8788	38:27	38:27	0	0.901	11990178	2361961	2020	5050	1169	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		4021576	761724	2447	6117	311		
373.8788	39:41	39:41	0		3133955	597812	2020	5050	296	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4551409	893154	2447	6117	365		
373.8788	41:56	41:56	0	0.982	3500550	684821	2020	5050	339	1.30(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	4894808	949592	2447	6117	388		
373.8788	42:42	42:42	0	1.076	3853738	748063	2020	5050	370	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:50	43:51	0	1.105	9427602	1256749	2447	6117	514		
373.8788	43:50	43:51	0	1.105	7369724	975988	2020	5050	483	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:50	43:51	0	1.105	9427602	1256749	2447	6117	514		
373.8788	43:50	43:51	0	1.105	7369724	975988	2020	5050	483	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	4916242	916681	2447	6117	375		
373.8788	47:05	47:05	0	1.186	3845463	728494	2020	5050	361	1.28(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	12402388	2564079	62	155	41356		
361.8385	31:24	31:25	-1	1.001	9849342	2028692	77	192	26347	1.26(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.007	12749448	2632383	62	155	42458		
361.8385	31:35	31:36	0	1.007	10086981	2076319	77	192	26965	1.26(1.05-1.43)	
PCB-150											
359.8415	31:45	31:46	-1	1.012	13352317	2720812	62	155	43884		
361.8385	31:45	31:46	-1	1.012	10538539	2149647	77	192	27917	1.27(1.05-1.43)	
PCB-136											
359.8415	32:07	32:08	-1	1.024	13269139	2656693	62	155	42850		
361.8385	32:07	32:08	-1	1.024	10474610	2087707	77	192	27113	1.27(1.05-1.43)	
PCB-145											
359.8415	32:25	32:25	-1	1.033	12720068	2589014	62	155	41758		
361.8385	32:25	32:25	-1	1.033	9952343	2017679	77	192	26204	1.28(1.05-1.43)	
PCB-148											
359.8415	33:56	33:57	-1	1.082	10032646	2019314	62	155	32570		
361.8385	33:56	33:57	-1	1.082	7924748	1602259	77	192	20809	1.27(1.05-1.43)	
PCB-135											
359.8415	34:31	34:32	-1	1.100	19071661	2211848	62	155	35675		M
361.8385	34:31	34:32	-1	1.100	15053955	1741114	77	192	22612	1.27(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:31	34:32	-1	1.100	19071661	2211848	62	155	35675		M
361.8385	34:31	34:32	-1	1.100	15053955	1741114	77	192	22612	1.27(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	-1	1.108	10765269	2174852	62	155	35078		
361.8385	34:47	34:47	-1	1.108	8513190	1703607	77	192	22125	1.26(1.05-1.43)	
PCB-144											
359.8415	35:05	35:06	-1	1.118	10112340	2006757	62	155	32367		
361.8385	35:05	35:06	-1	1.118	8027032	1594884	77	192	20713	1.26(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	33290962	6809592	7018	17545	970		
361.8385	35:27	35:27	0	1.130	26354858	5371373	4599	11497	1168	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	33290962	6809592	7018	17545	970		
361.8385	35:27	35:27	0	1.130	26354858	5371373	4599	11497	1168	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:45	35:45	-1	1.139	29163231	3052586	7018	17545	435		
361.8385	35:45	35:45	-1	1.139	23214772	2420877	4599	11497	526	1.26(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	-1	1.139	29163231	3052586	7018	17545	435		
361.8385	35:45	35:45	-1	1.139	23214772	2420877	4599	11497	526	1.26(1.05-1.43)	
PCB-139											
359.8415	36:03	36:04	-1	1.149	32892022	5980835	7018	17545	852		
361.8385	36:03	36:04	-1	1.149	26146416	4775232	4599	11497	1038	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:03	36:04	-1	1.149	32892022	5980835	7018	17545	852		
361.8385	36:03	36:04	-1	1.149	26146416	4775232	4599	11497	1038	1.26(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	-1	1.155	14367703	2800912	7018	17545	399		
361.8385	36:15	36:15	-1	1.155	11438938	2238869	4599	11497	487	1.26(1.05-1.43)	
PCB-142											
359.8415	36:23	36:24	-1	1.160	14279654	2850607	7018	17545	406		
361.8385	36:23	36:24	-1	1.160	11447638	2289825	4599	11497	498	1.25(1.05-1.43)	
PCB-132											
359.8415	36:42	36:43	-1	1.170	13661131	2714090	7018	17545	387		
361.8385	36:42	36:43	-1	1.170	10942845	2164599	4599	11497	471	1.25(1.05-1.43)	
PCB-133											
359.8415	37:13	37:14	-1	1.186	15673775	3034629	7018	17545	432		
361.8385	37:13	37:14	-1	1.186	12573318	2407911	4599	11497	524	1.25(1.05-1.43)	
PCB-165											
359.8415	37:37	37:37	0	0.881	19300636	3808288	7018	17545	543		
361.8385	37:37	37:37	0	0.881	15287853	3022284	4599	11497	657	1.26(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	-1	0.887	18188179	3575888	7018	17545	510		
361.8385	37:52	37:52	-1	0.887	14560172	2883285	4599	11497	627	1.25(1.05-1.43)	
PCB-161											
359.8415	37:59	38:00	0	0.890	21251579	4230862	7018	17545	603		
361.8385	37:59	38:00	0	0.890	16862245	3346103	4599	11497	728	1.26(1.05-1.43)	
PCB-153											
359.8415	38:29	38:30	0	0.901	41584061	5988173	7018	17545	853		
361.8385	38:29	38:30	0	0.901	32988053	4780134	4599	11497	1039	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:29	38:30	0	0.901	41584061	5988173	7018	17545	853		
361.8385	38:29	38:30	0	0.901	32988053	4780134	4599	11497	1039	1.26(1.05-1.43)	
PCB-141											
359.8415	38:40	38:41	-1	0.905	16194557	2920342	7018	17545	416		
361.8385	38:40	38:41	-1	0.905	12869976	2334490	4599	11497	508	1.26(1.05-1.43)	
PCB-130											
359.8415	39:04	39:05	-1	0.915	13116472	2604384	7018	17545	371		
361.8385	39:04	39:05	-1	0.915	10413690	2054855	4599	11497	447	1.26(1.05-1.43)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:18	39:18	0	0.920	14331117	2927825	7018	17545	417		
361.8385	39:18	39:18	0	0.920	11466179	2347456	4599	11497	510	1.25(1.05-1.43)	
PCB-164											
359.8415	39:25	39:26	-1	0.923	19991096	3736989	7018	17545	532		
361.8385	39:25	39:26	-1	0.923	15763552	2931595	4599	11497	637	1.27(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	0	0.930	70852247	8207715	7018	17545	1170		M
361.8385	39:44	39:44	0	0.930	56283132	6469680	4599	11497	1407	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:06	40:07	0	0.939	24273259	4495028	7018	17545	640		Ma
361.8385	40:06	40:07	0	0.939	19147696	3534956	4599	11497	769	1.27(1.05-1.43)	M
PCB-128											
359.8415	40:57	40:57	0	0.959	37887683	5769411	7018	17545	822		
361.8385	40:57	40:57	0	0.959	30189595	4546093	4599	11497	988	1.25(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	37887683	5769411	7018	17545	822		
361.8385	40:57	40:57	0	0.959	30189595	4546093	4599	11497	988	1.25(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	25758437	4981564	7018	17545	710		
361.8385	41:58	41:58	0	0.983	20599018	3902089	4599	11497	848	1.25(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	23165310	4172381	7018	17545	595		
361.8385	42:15	42:15	0	0.990	18519485	3308080	4599	11497	719	1.25(1.05-1.43)	
PCB-167											
359.8415	42:43	42:44	0	1.001	21086036	4067502	7018	17545	580		
361.8385	42:43	42:44	0	1.001	16830898	3209669	4599	11497	698	1.25(1.05-1.43)	
PCB-156											
359.8415	43:52	43:53	-1	1.001	40941586	5502007	7018	17545	784		
361.8385	43:52	43:53	-1	1.001	32643565	4370876	4599	11497	950	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:52	43:53	-1	1.001	40941586	5502007	7018	17545	784		
361.8385	43:52	43:53	-1	1.001	32643565	4370876	4599	11497	950	1.25(1.05-1.43)	
PCB-169											
359.8415	47:05	47:06	-1	1.000	22284432	3935033	7018	17545	561		
361.8385	47:05	47:06	-1	1.000	17462401	3105432	4599	11497	675	1.28(1.05-1.43)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:06	37:07	-1	0.820	3642228	723802	100	250	7238		
407.8398	37:06	37:07	-1	0.820	3363987	669566	136	340	4923	1.08(0.89-1.21)	
PCB-178L											
405.8428	40:09	40:10	-1	0.887	10456618	1989208	100	250	19892		
407.8398	40:09	40:10	-1	0.887	9708464	1866869	136	340	13727	1.08(0.89-1.21)	
PCB-180L											
405.8428	45:14	45:15	-1		2744400	512502	100	250	5125		
407.8398	45:15	45:15	0		2565433	482035	136	340	3544	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	2233737	415377	100	250	4154		
407.8398	46:30	46:30	0	1.028	2153085	405266	136	340	2980	1.04(0.89-1.21)	
PCB-189L											
405.8428	49:36	49:37	-1	1.097	5405857	996635	1973	4932	505		
407.8398	49:36	49:37	-1	1.097	5096346	946628	2013	5032	470	1.06(0.89-1.21)	
PCB-188											
393.8025	37:07	37:08	-1	1.001	15894739	3132976	11	27	284816		
395.7995	37:07	37:08	-1	1.001	14991318	2987713	71	177	42080	1.06(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	16030052	3057679	11	27	277971		
395.7995	37:27	37:28	-1	1.010	15100598	2875089	71	177	40494	1.06(0.89-1.21)	
PCB-184											
393.8025	37:59	38:00	0	1.024	15965361	3088111	11	27	280737		
395.7995	37:59	38:00	0	1.024	15052933	2938274	71	177	41384	1.06(0.89-1.21)	
PCB-176											
393.8025	38:20	38:21	-1	1.033	13860308	2648177	11	27	240743		
395.7995	38:20	38:21	-1	1.033	13147325	2536184	71	177	35721	1.05(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.046	17015723	3231270	11	27	293752		
395.7995	38:48	38:48	0	1.046	16147959	3080332	71	177	43385	1.05(0.89-1.21)	
PCB-178											
393.8025	40:10	40:11	-1	1.083	10411544	2012862	11	27	182988		
395.7995	40:10	40:11	-1	1.083	9903298	1922922	71	177	27083	1.05(0.89-1.21)	
PCB-175											
393.8025	40:48	40:49	-1	1.100	10849325	2059997	11	27	187273		
395.7995	40:48	40:49	-1	1.100	10371089	1959556	71	177	27599	1.05(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	12824617	2477324	11	27	225211		
395.7995	41:05	41:05	0	1.107	12164702	2335192	71	177	32890	1.05(0.89-1.21)	
PCB-182											
393.8025	41:17	41:18	0	1.113	10977177	2063310	11	27	187574		
395.7995	41:17	41:18	0	1.113	10315673	1969940	71	177	27746	1.06(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	21620931	2252527	11	27	204775		Ma
395.7995	41:42	41:42	0	1.124	20232904	2088923	71	177	29421	1.07(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											Ma
393.8025	41:42	41:42	0	1.124	21620931	2252527	11	27	204775		M
395.7995	41:42	41:42	0	1.124	20232904	2088923	71	177	29421	1.07(0.89-1.21)	
PCB-174											
393.8025	41:56	41:56	0	1.130	11163861	2131369	11	27	193761		
395.7995	41:56	41:56	0	1.130	10619308	2010855	71	177	28322	1.05(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	11137128	1983115	11	27	180283		
395.7995	42:22	42:22	0	1.142	10573626	1894997	71	177	26690	1.05(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	10730603	2042497	11	27	185682		
395.7995	42:45	42:45	0	1.152	10274395	1968457	71	177	27725	1.04(0.89-1.21)	
PCB-171											
393.8025	42:58	42:59	0	1.158	20556308	3405250	11	27	309568		
395.7995	42:58	42:59	0	1.158	19364771	3182250	71	177	44820	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:59	0	1.158	20556308	3405250	11	27	309568		
395.7995	42:58	42:59	0	1.158	19364771	3182250	71	177	44820	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	9666253	1881153	11	27	171014		
395.7995	44:37	44:37	0	0.899	9183651	1768963	71	177	24915	1.05(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	15562900	2937197	11	27	267018		
395.7995	44:54	44:54	0	0.905	14728099	2739160	71	177	38580	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	26706443	3556777	11	27	323343		
395.7995	45:14	45:14	0	0.912	25256754	3372007	71	177	47493	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	26706443	3556777	11	27	323343		
395.7995	45:14	45:14	0	0.912	25256754	3372007	71	177	47493	1.06(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.920	14935038	2766774	11	27	251525		
395.7995	45:37	45:37	0	0.920	14214303	2633578	71	177	37093	1.05(0.89-1.21)	
PCB-170											
393.8025	46:31	46:32	0	0.938	10232586	1870309	11	27	170028		
395.7995	46:31	46:32	-1	0.938	9600499	1755081	71	177	24719	1.07(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	15017752	2773774	11	27	252161		
395.7995	47:02	47:02	0	0.948	14045959	2624209	71	177	36961	1.07(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.001	20534056	3848208	1643	4107	2342		
395.7995	49:38	49:38	0	1.001	19487566	3634362	1107	2767	3283	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:28	42:28	0	0.821	2418394	446788	30	75	14893		
441.8008	42:28	42:28	1	0.821	2661064	508757	32	80	15899	0.91(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:43	51:43	0		3485452	632444	278	695	2275		
441.8008	51:43	51:43	0		3837808	688713	164	410	4199	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:11	0	1.009	4129550	754744	278	695	2715		
441.8008	52:11	52:11	0	1.009	4509068	812981	164	410	4957	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	10202791	1921272	47	117	40878		
429.7606	42:29	42:29	0	1.001	11344428	2160861	58	145	37256	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:25	0	1.022	9429617	1790526	47	117	38096		
429.7606	43:24	43:25	0	1.022	10361999	1935083	58	145	33364	0.91(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	9940326	1884926	47	117	40105		
429.7606	44:05	44:05	0	1.038	11000167	2083443	58	145	35921	0.90(0.76-1.02)	
PCB-197											
427.7635	44:19	44:19	0	1.044	10467948	1945914	47	117	41402		
429.7606	44:19	44:19	0	1.044	11627449	2198335	58	145	37902	0.90(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	9646190	1851944	47	117	39403		
429.7606	44:25	44:25	0	1.046	10517431	2027054	58	145	34949	0.92(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.112	16331274	2078516	47	117	44224		
429.7606	47:12	47:12	0	1.112	18134978	2282982	58	145	39362	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	16331274	2078516	47	117	44224		
429.7606	47:12	47:12	0	1.112	18134978	2282982	58	145	39362	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.917	7330695	1374396	47	117	29242		
429.7606	47:53	47:53	0	0.917	8062724	1508186	58	145	26003	0.91(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	8974073	1665288	47	117	35432		
429.7606	48:05	48:05	0	0.921	9807796	1823811	58	145	31445	0.91(0.76-1.02)	
PCB-195											
427.7635	49:24	49:23	1	0.947	13278629	2435810	1197	2992	2035		
429.7606	49:24	49:23	1	0.947	14836338	2712844	10107	25267	268	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	15278609	2814671	1197	2992	2351		
429.7606	51:44	51:44	0	0.991	17094843	3126885	10107	25267	309	0.89(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	0	1.000	17359047	3148703	1197	2992	2630		
429.7606	52:13	52:13	0	1.000	19165222	3522416	10107	25267	349	0.91(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	3160520	579728	635	1587	913		
475.7619	49:08	49:09	0	0.950	3975284	728325	550	1375	1324	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-206L											
473.7648	53:56	53:57	0	1.043	2295828	414632	635	1587	653		
475.7619	53:56	53:57	0	1.043	2791452	515362	550	1375	937	0.82(0.65-0.89)	
PCB-208											
461.7246	49:10	49:10	0	1.001	13762182	2600944	1799	4497	1446		
463.7216	49:10	49:10	0	1.001	17538204	3273965	1382	3455	2369	0.78(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	13947336	2590680	1799	4497	1440		
463.7216	50:05	50:05	0	1.019	17708941	3285222	1382	3455	2377	0.79(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	11132917	2038968	1799	4497	1133		
463.7216	53:58	53:58	0	1.000	14086057	2581506	1382	3455	1868	0.79(0.65-0.89)	
PCB-209L											
507.7258	55:35	55:34	1	1.075	2023837	339841	158	395	2151		
509.7229	55:34	55:34	0	1.075	2843727	486553	71	177	6853	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:36	55:36	0	1.000	8716853	1501897	46	115	32650		
497.6826	55:36	55:36	0	1.000	12192846	2098977	15	37	139932	0.71(0.59-0.79)	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

61L41668P\_00006

Amount Added: 20.00

Units: uL

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

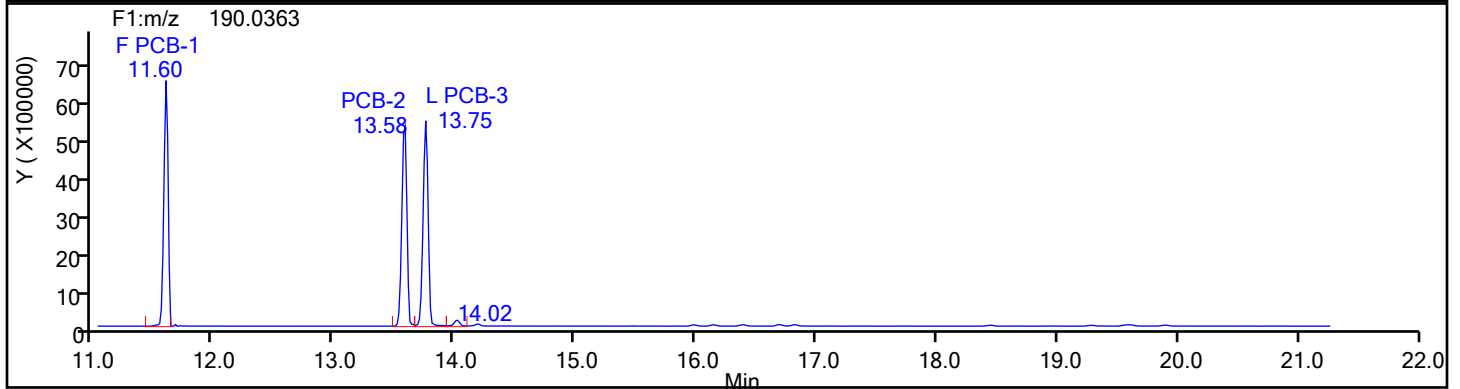
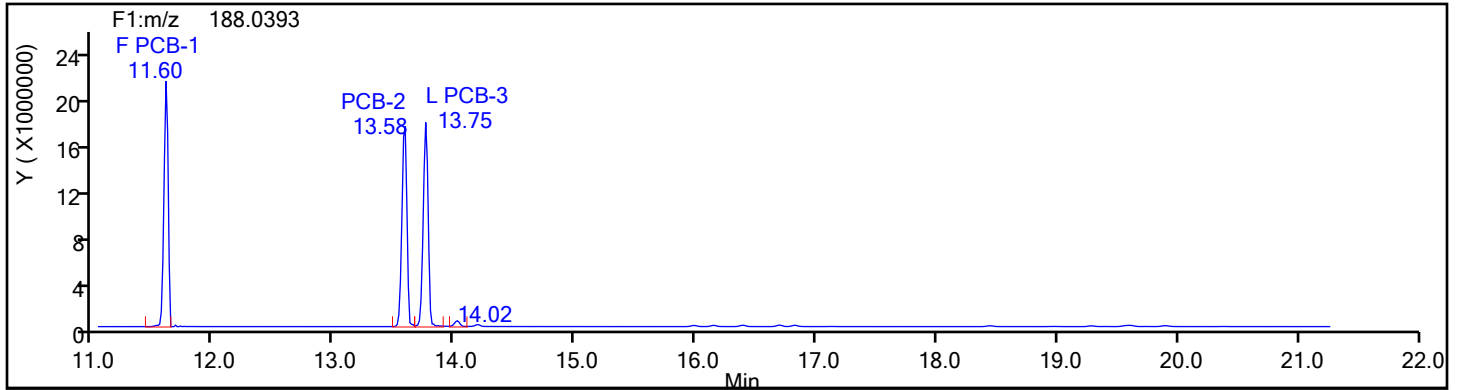
Worklist#: 87130

Sample Line#: 5

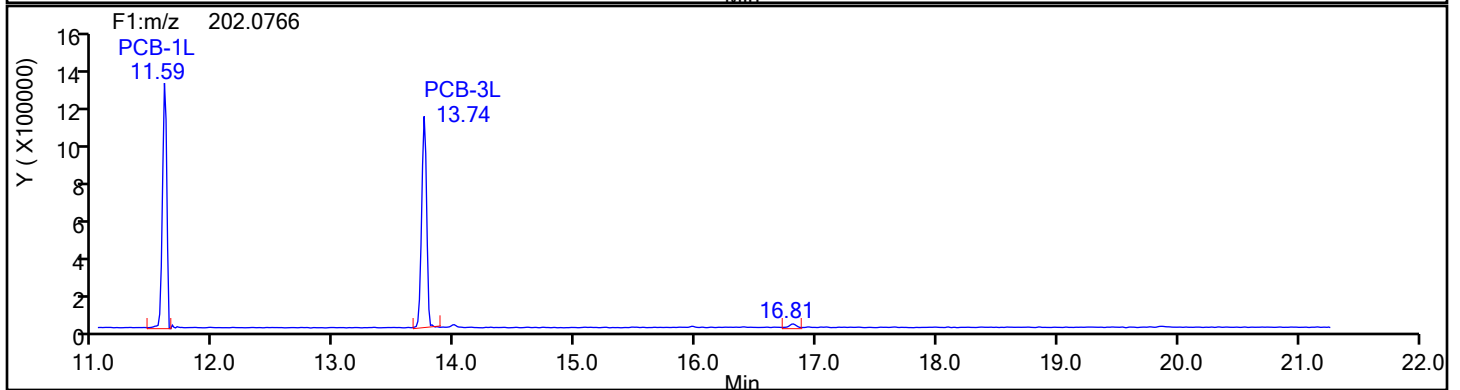
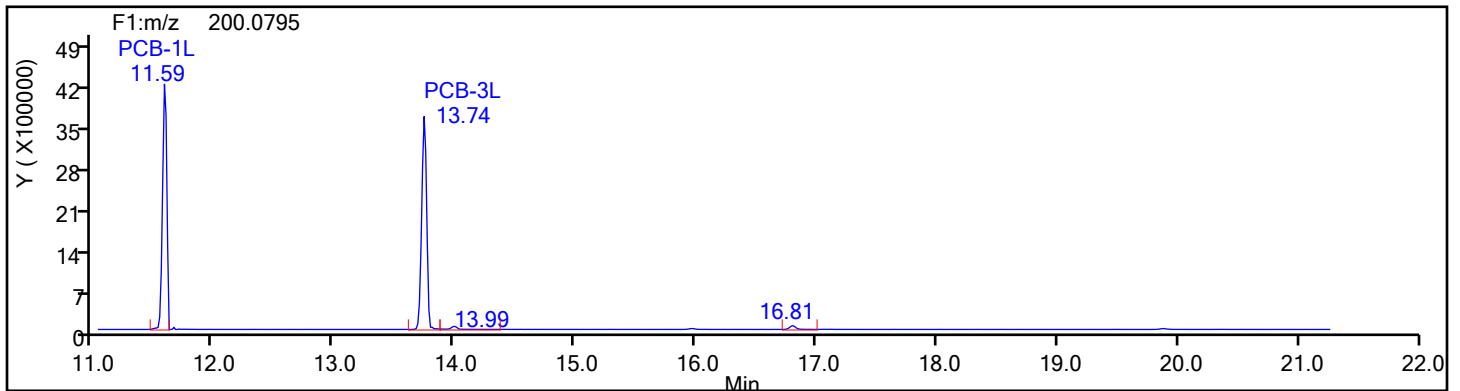
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

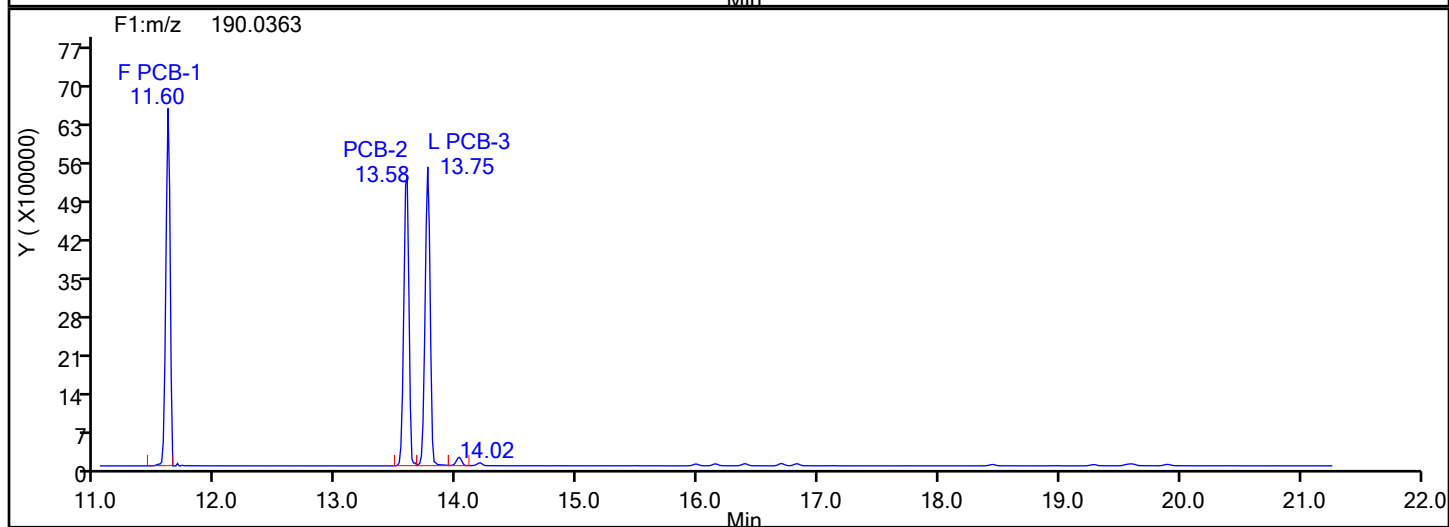
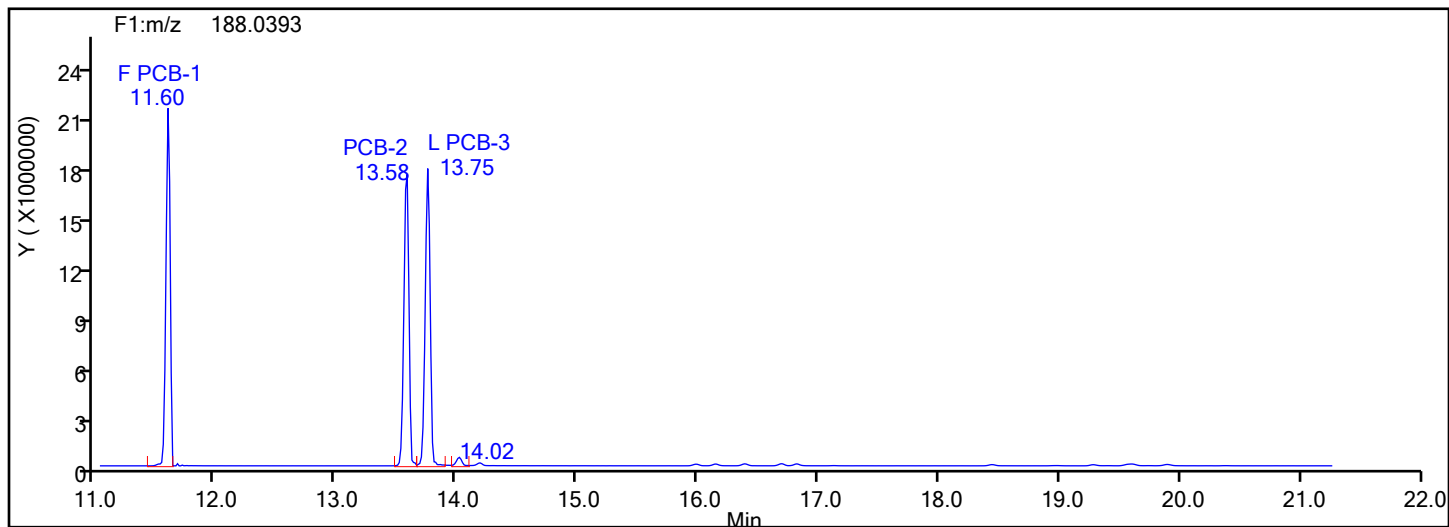
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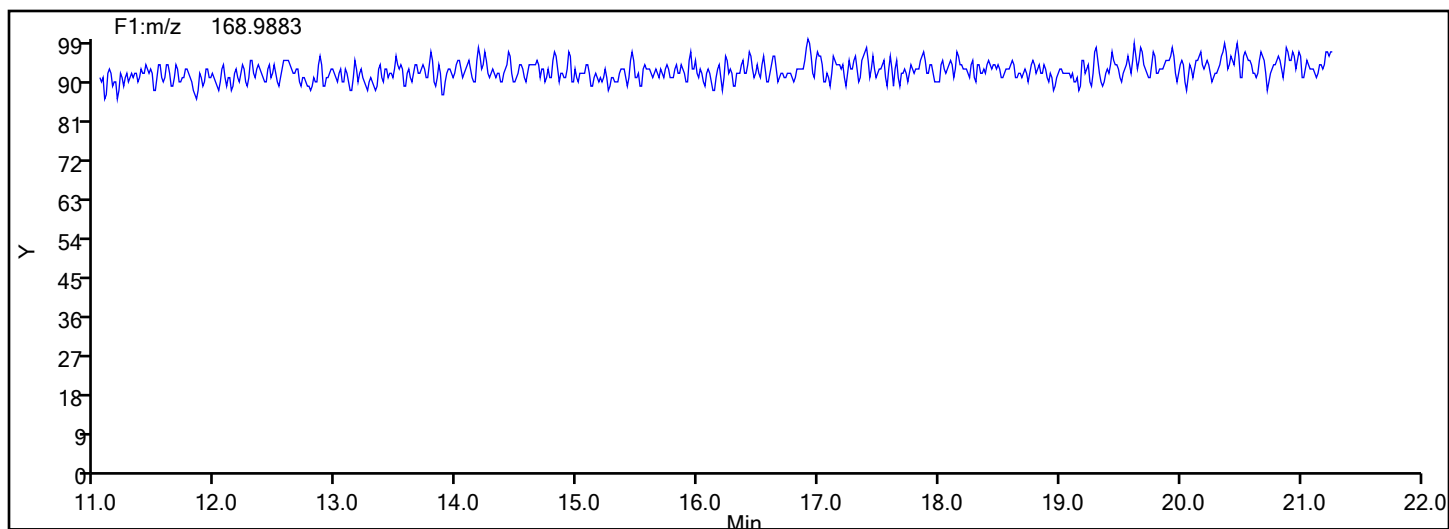
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

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Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

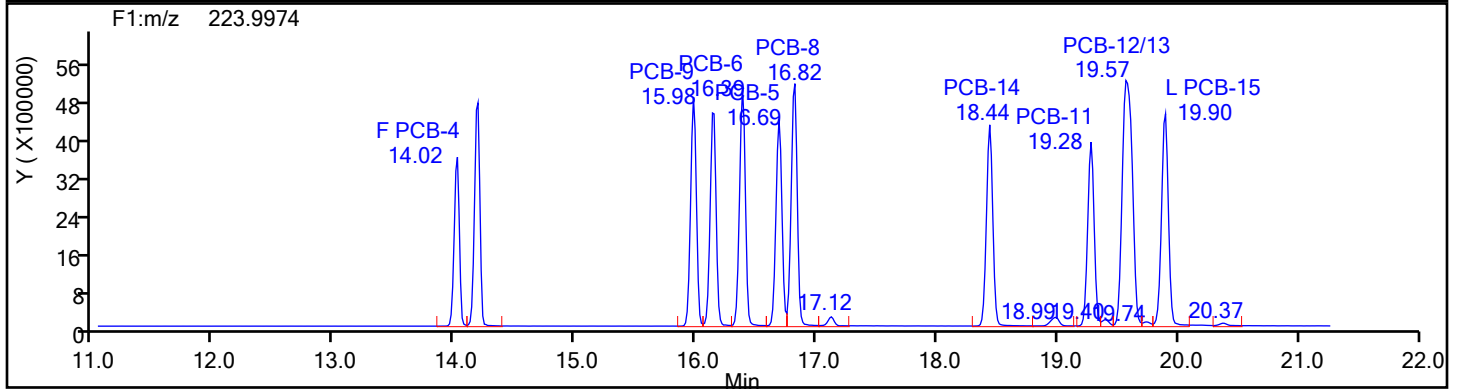
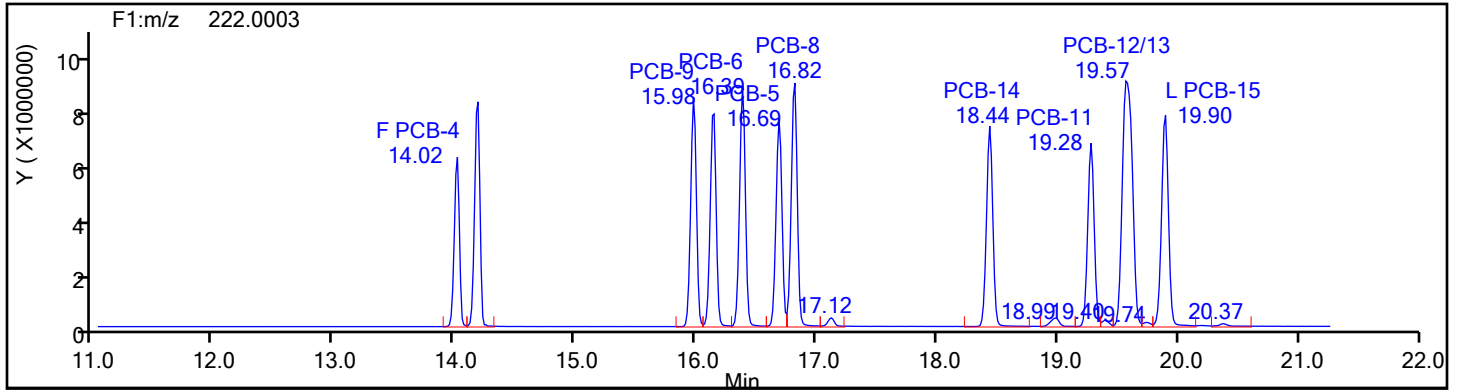
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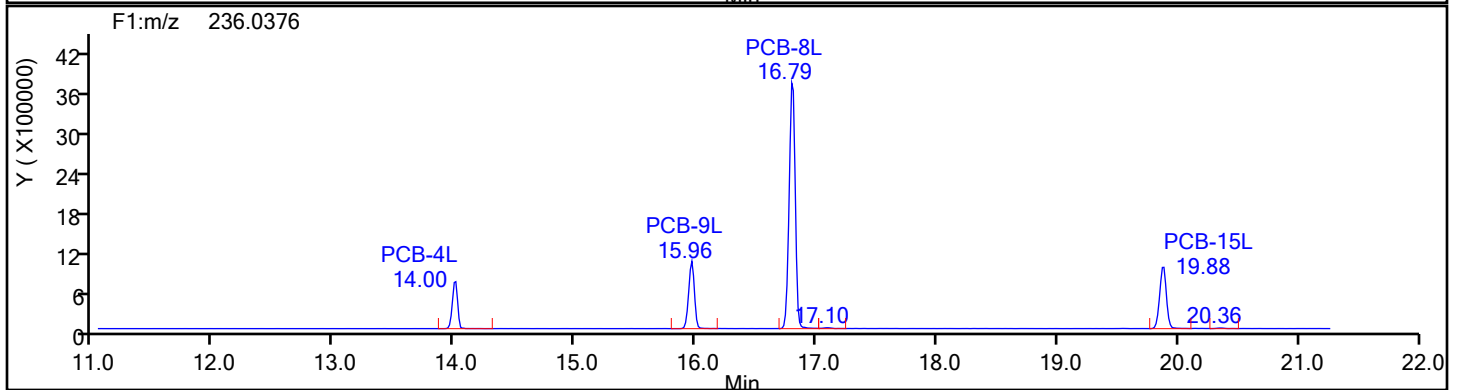
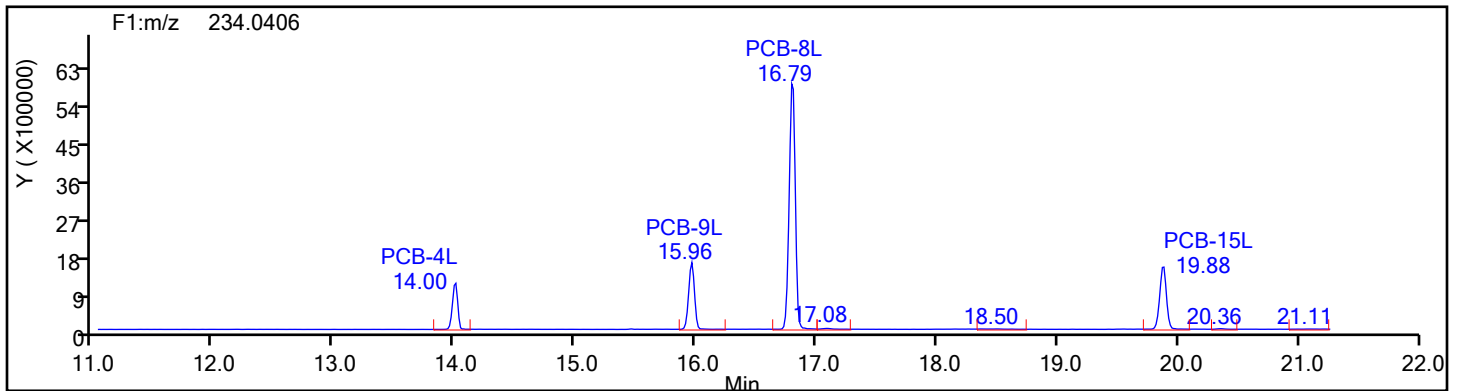
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

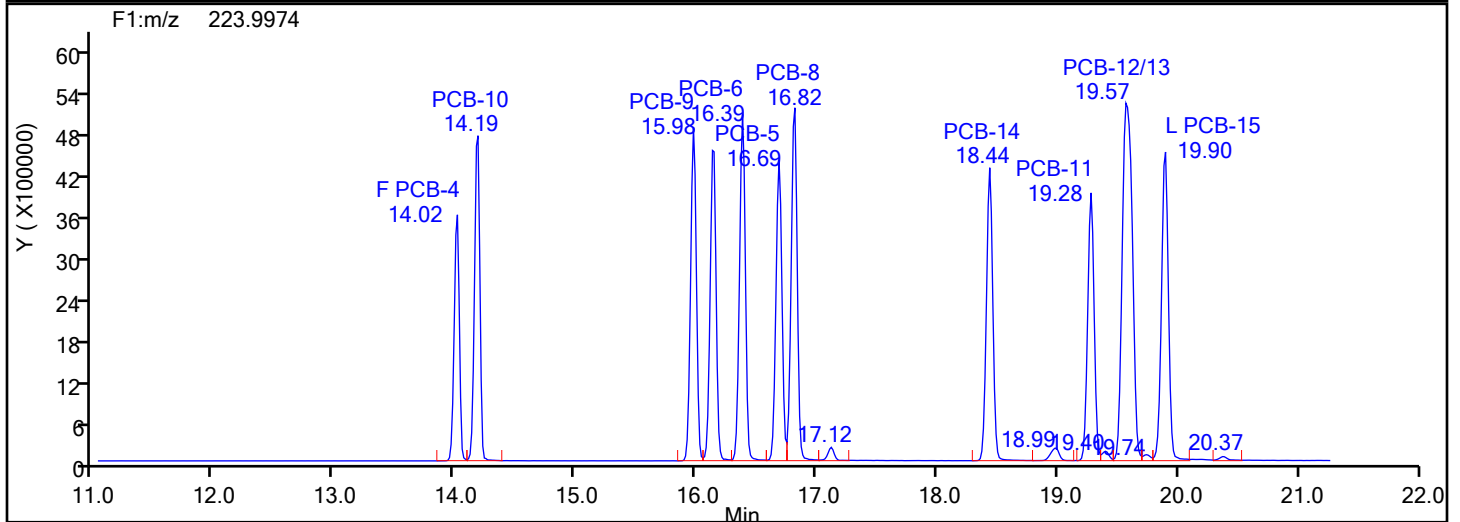
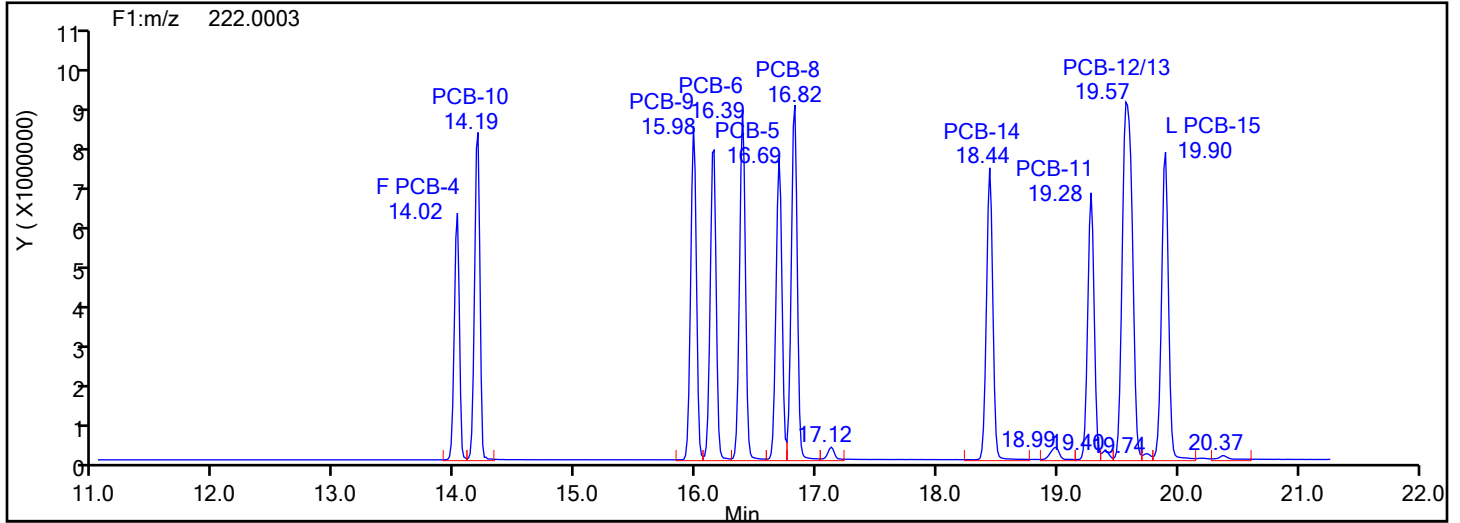
Worklist#: 87130

Sample Line#: 5

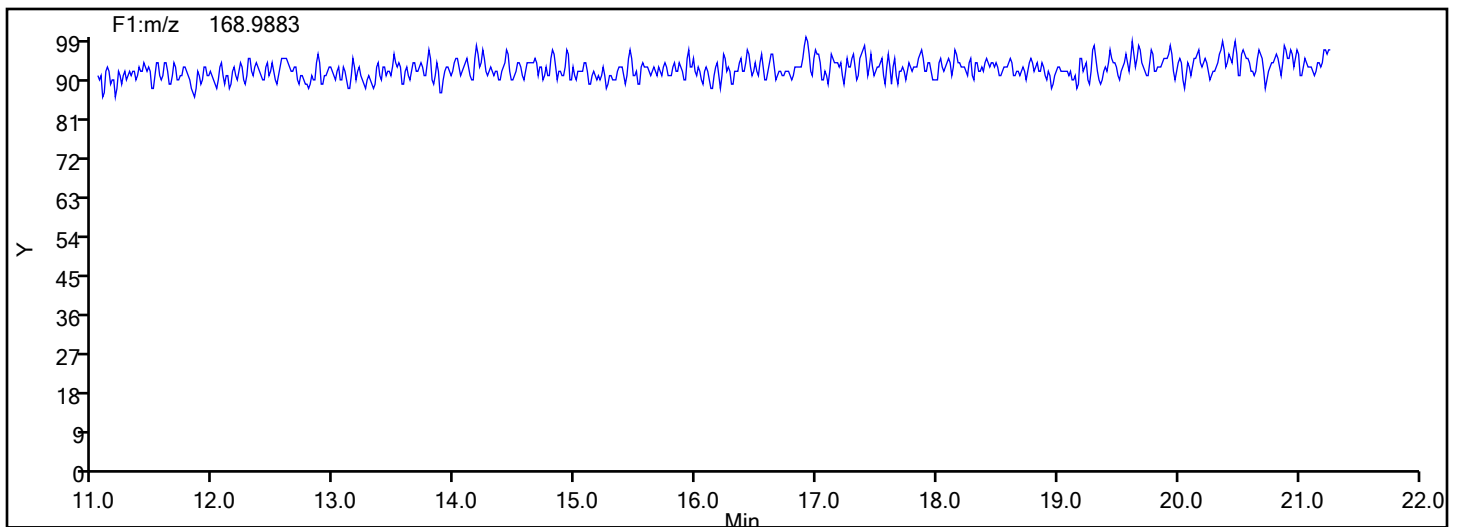
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

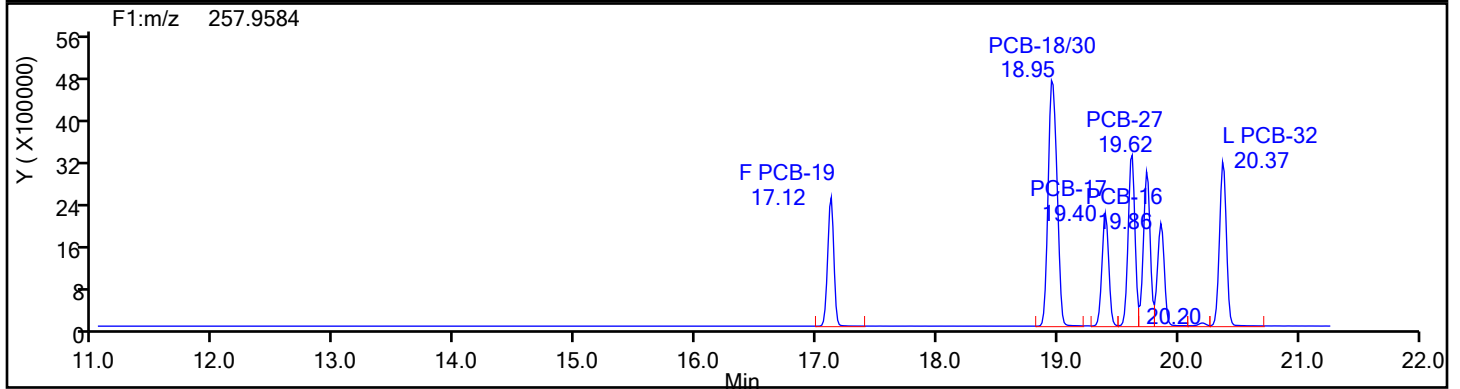
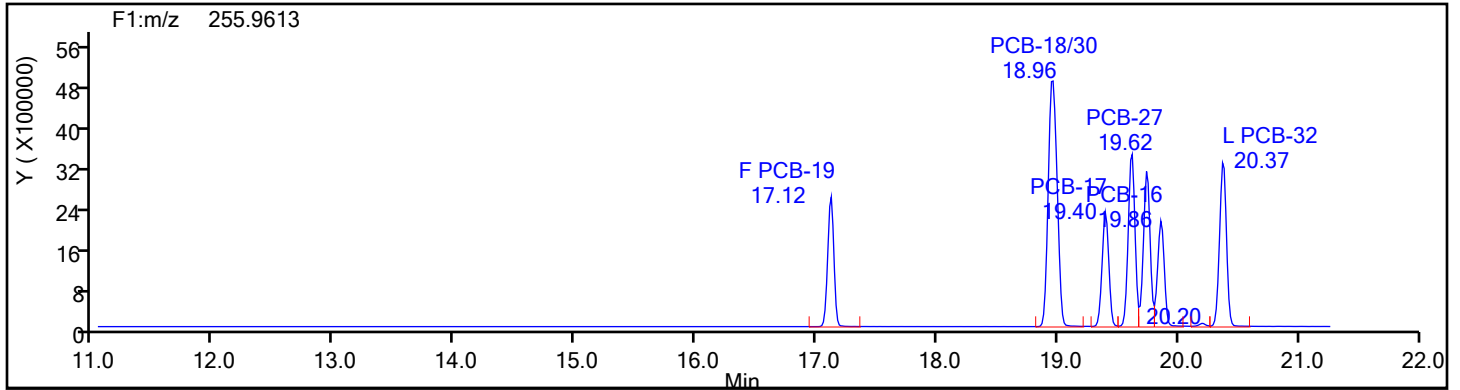
Worklist#: 87130

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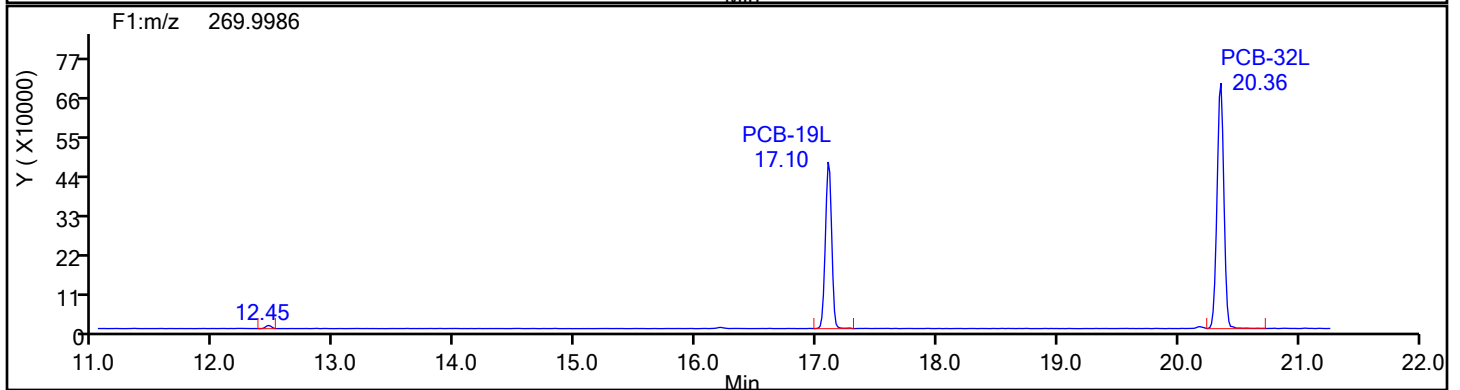
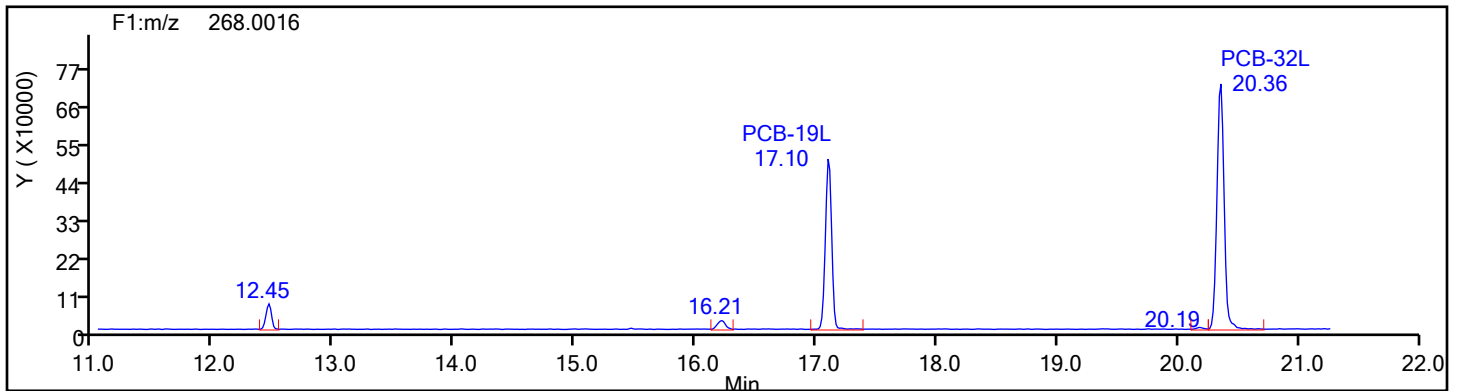
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

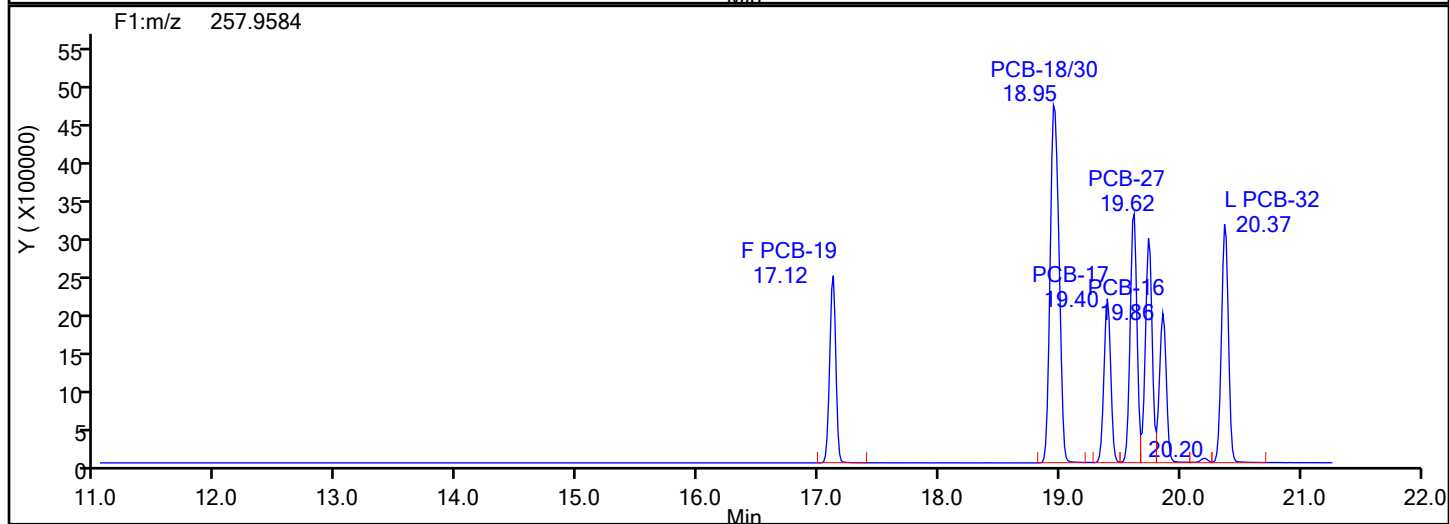
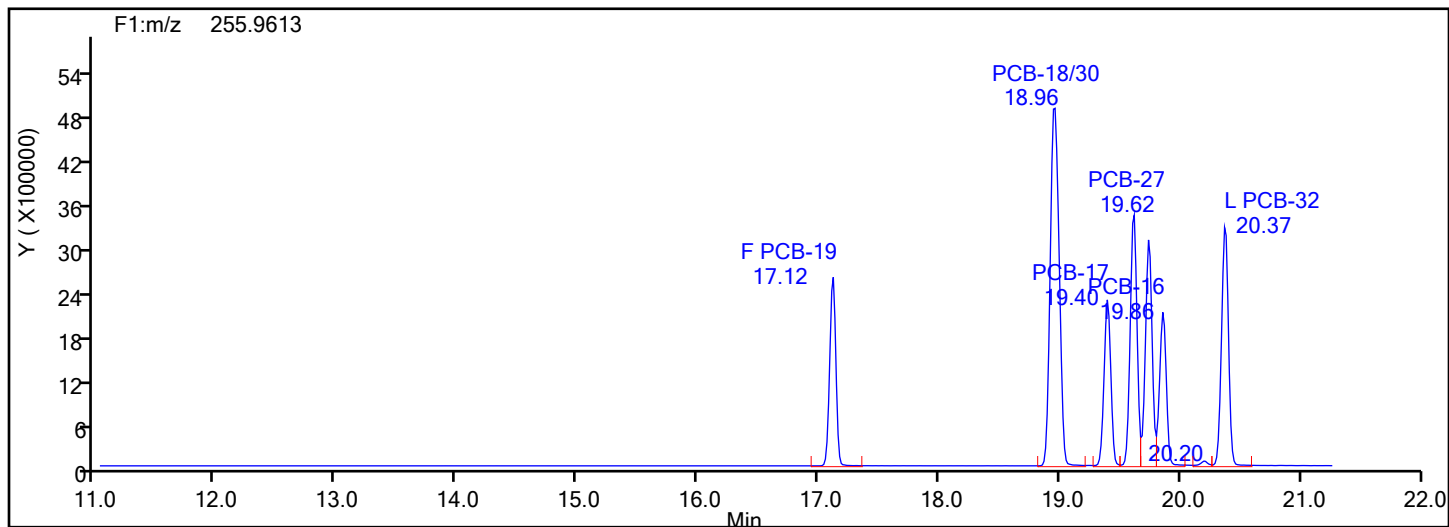
Worklist#: 87130

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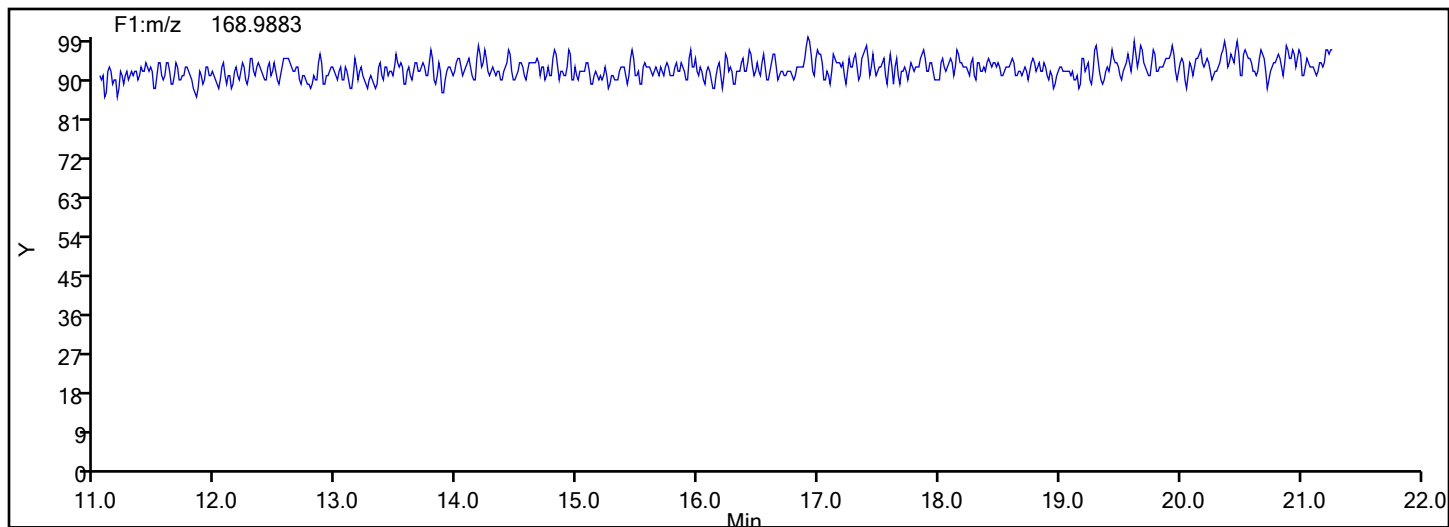
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

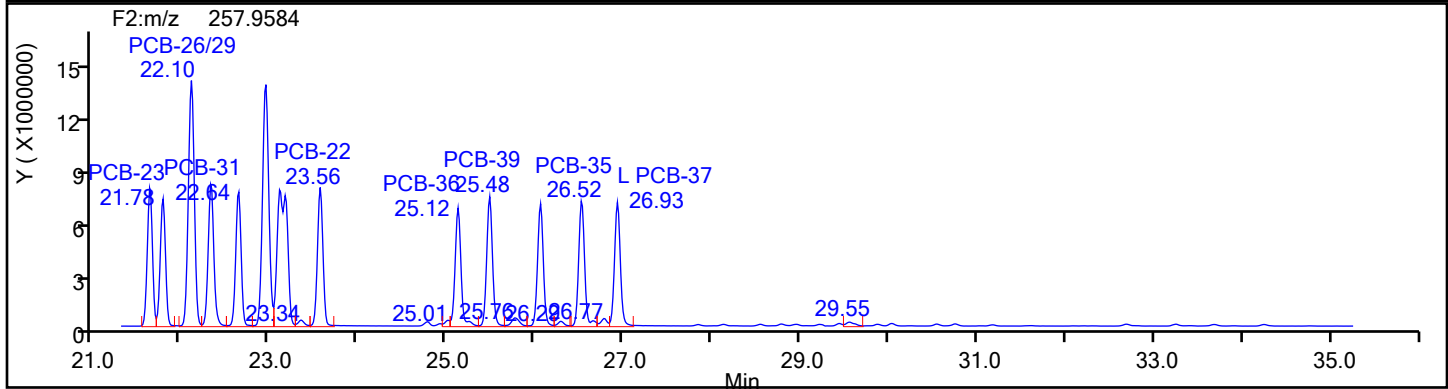
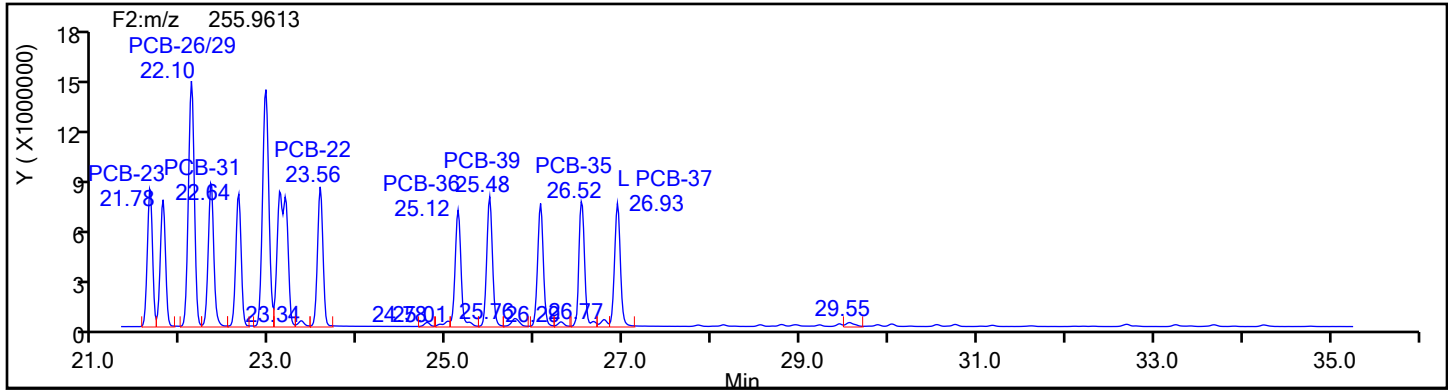
Worklist#: 87130

Sample Line#: 5

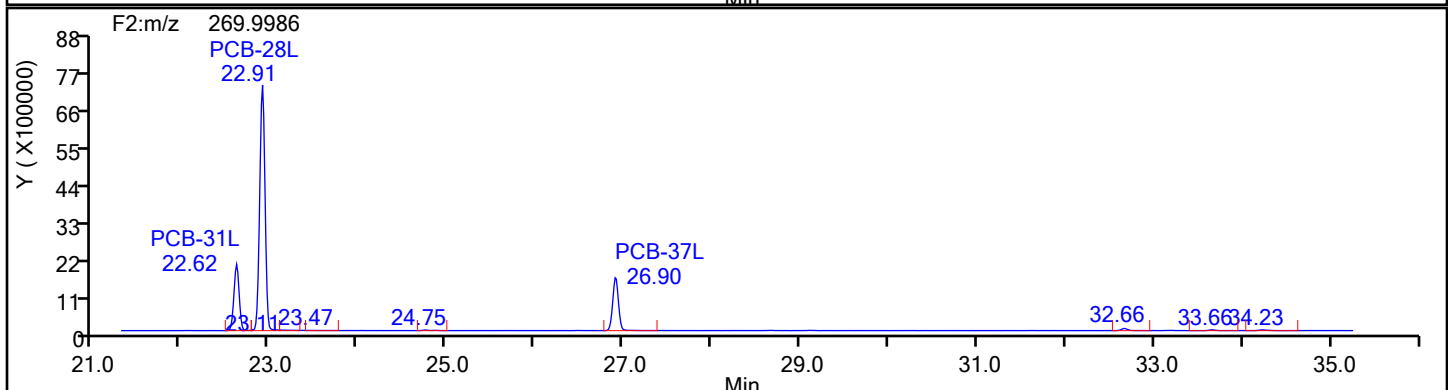
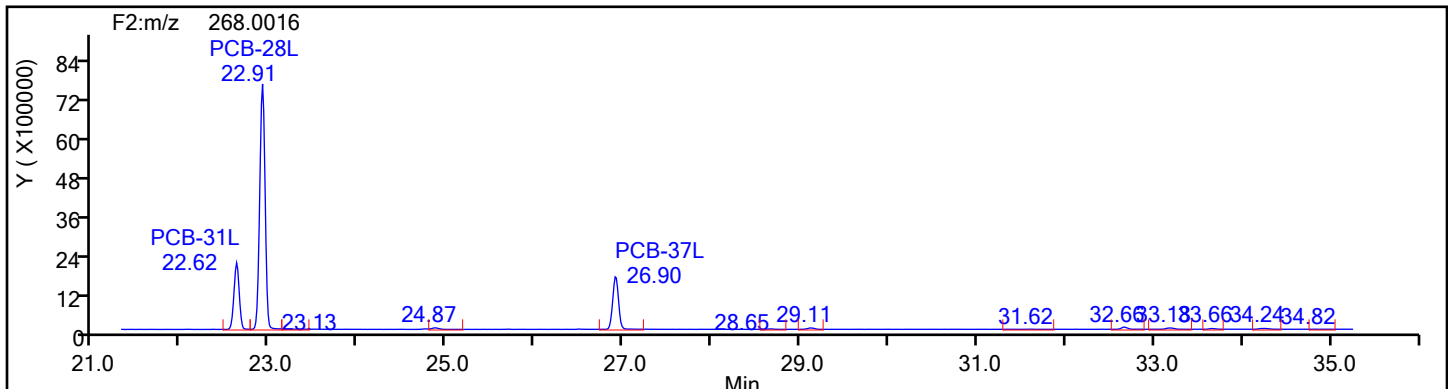
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

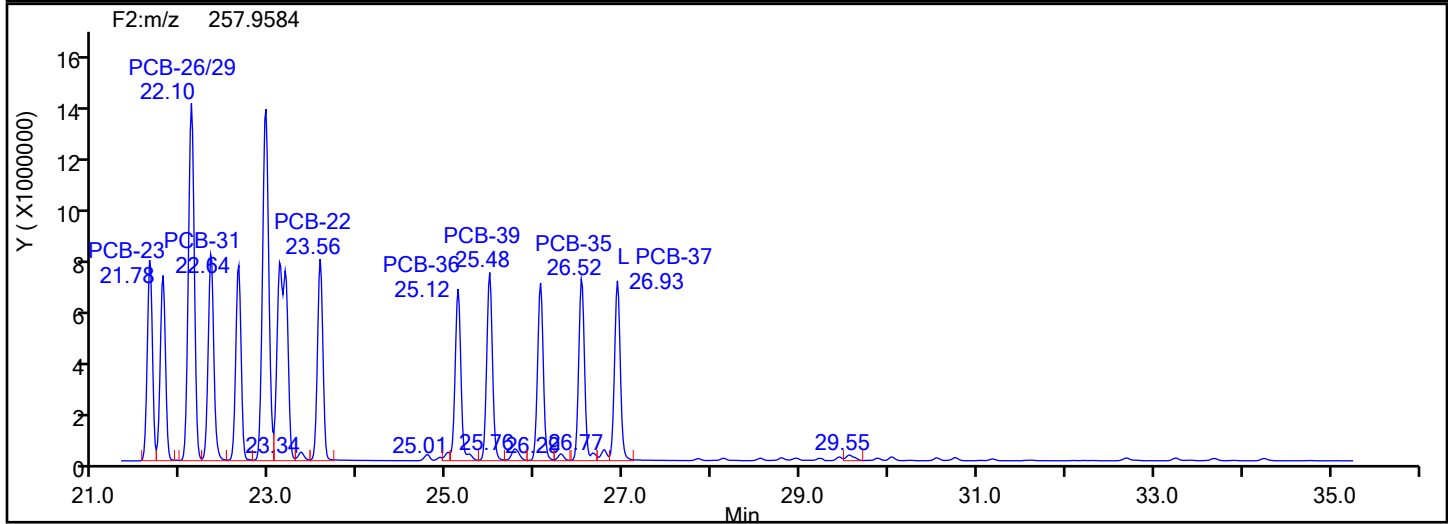
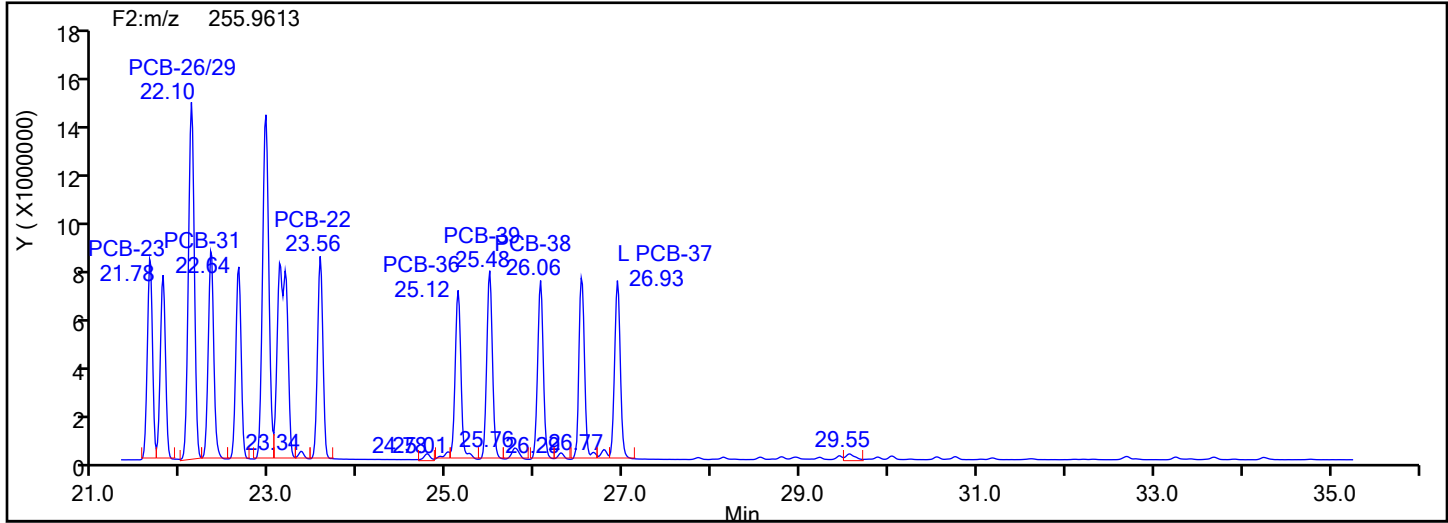
Worklist#: 87130

Sample Line#: 5

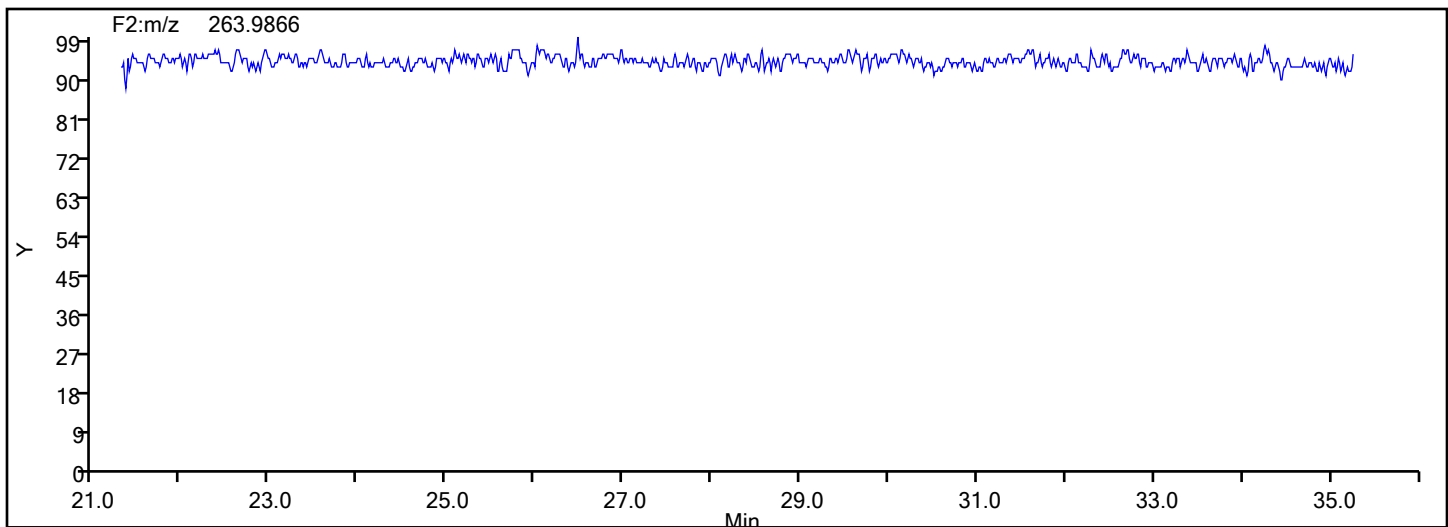
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

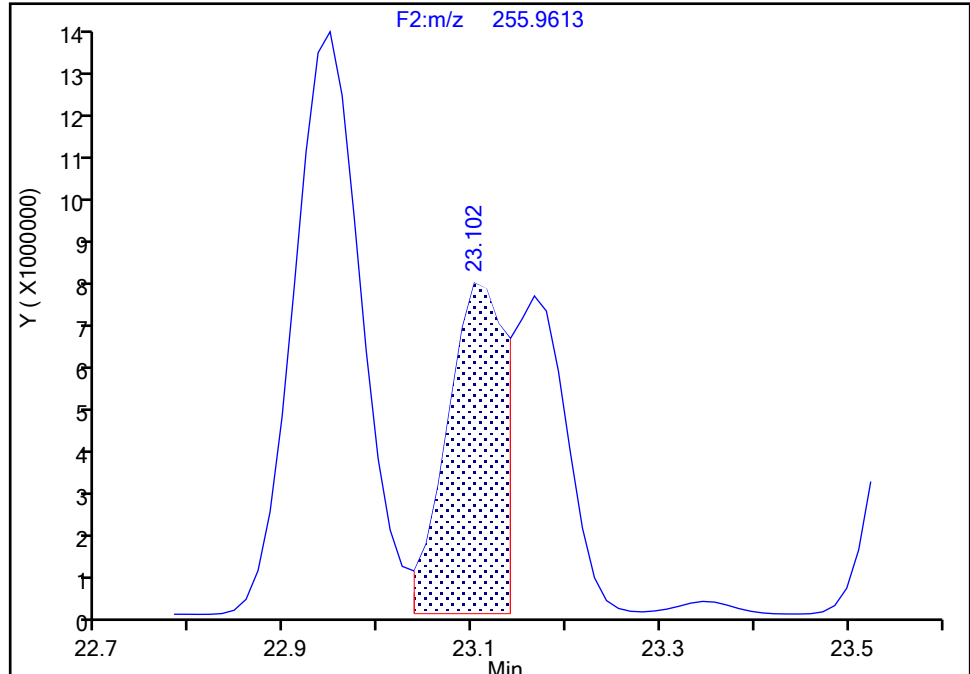
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

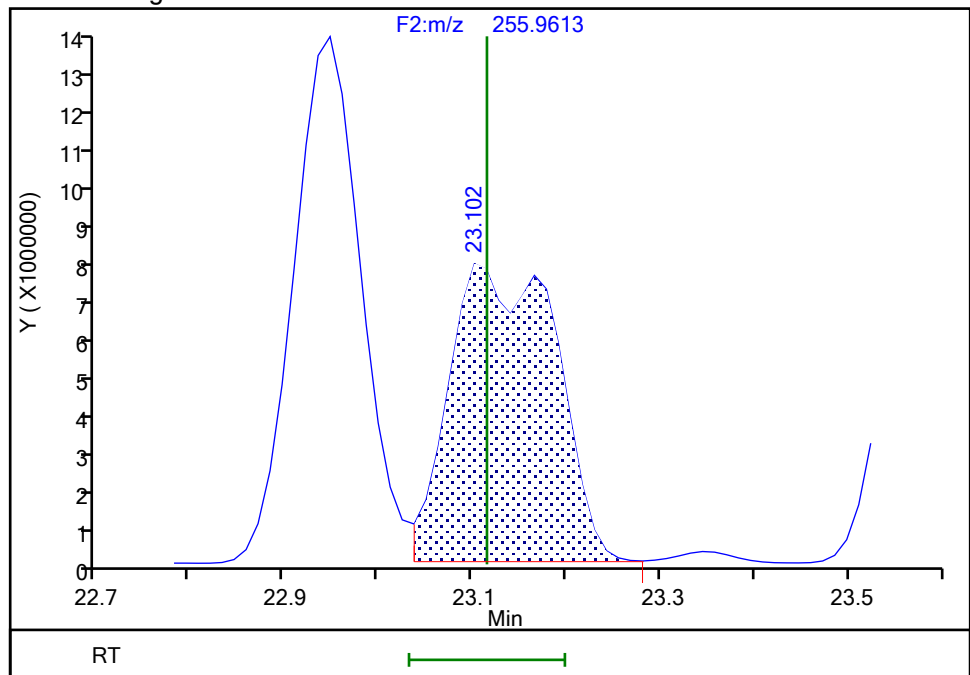
RT: 23.10  
Area: 32747425  
Amount: 487.1424  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.10  
Area: 61897185  
Amount: 769.2411  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

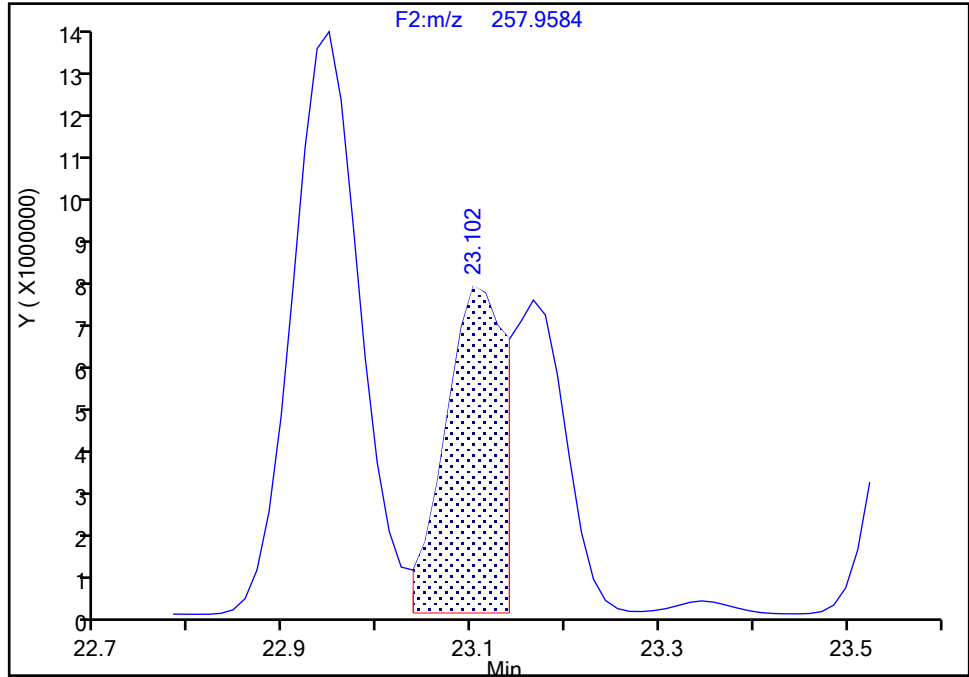
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D  
Lims ID: IC L5  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

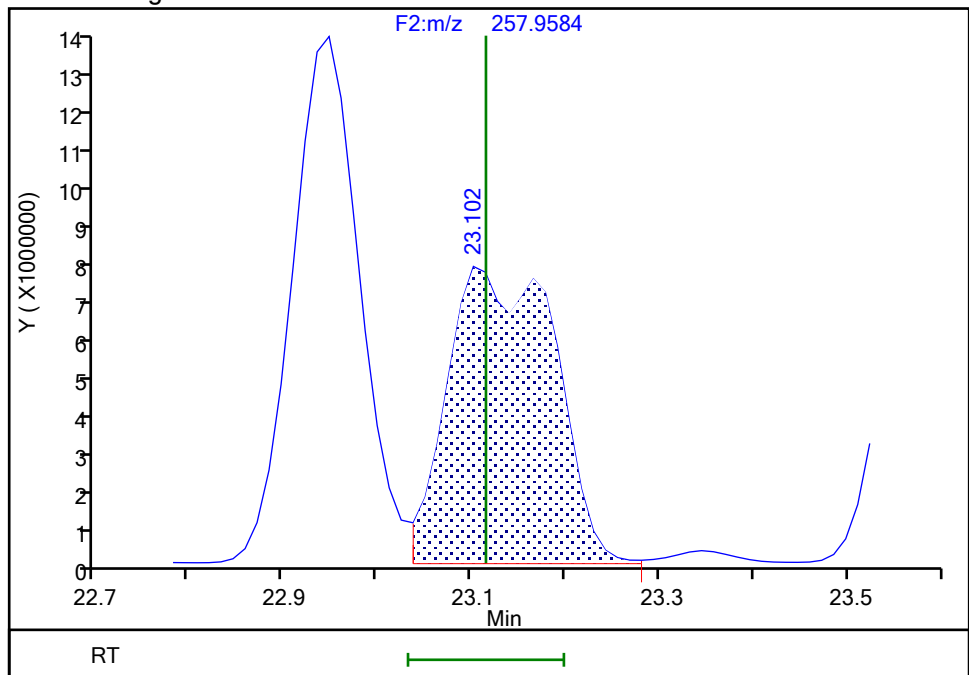
RT: 23.10  
Area: 31717636  
Amount: 487.1424  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.10  
Area: 59869797  
Amount: 769.2411  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04356  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

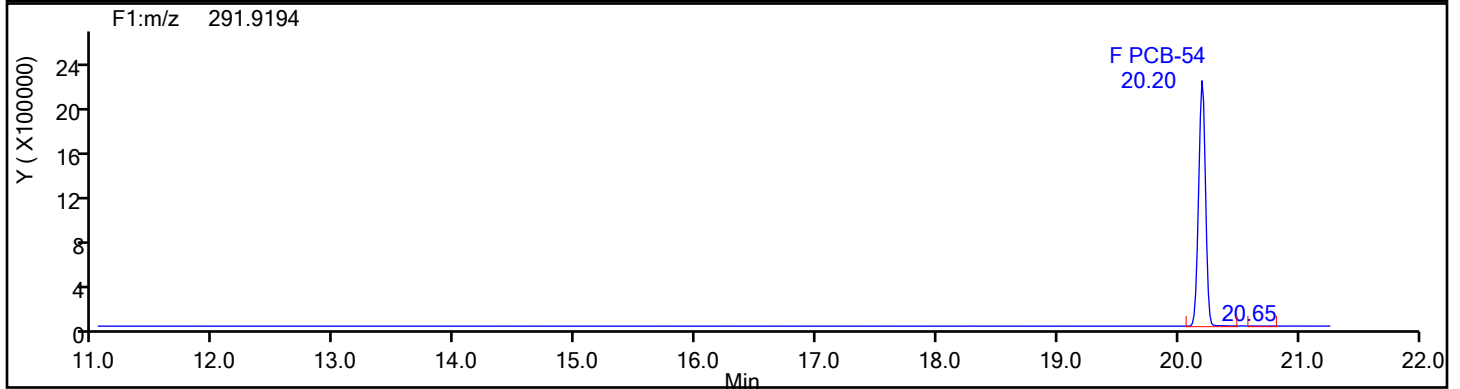
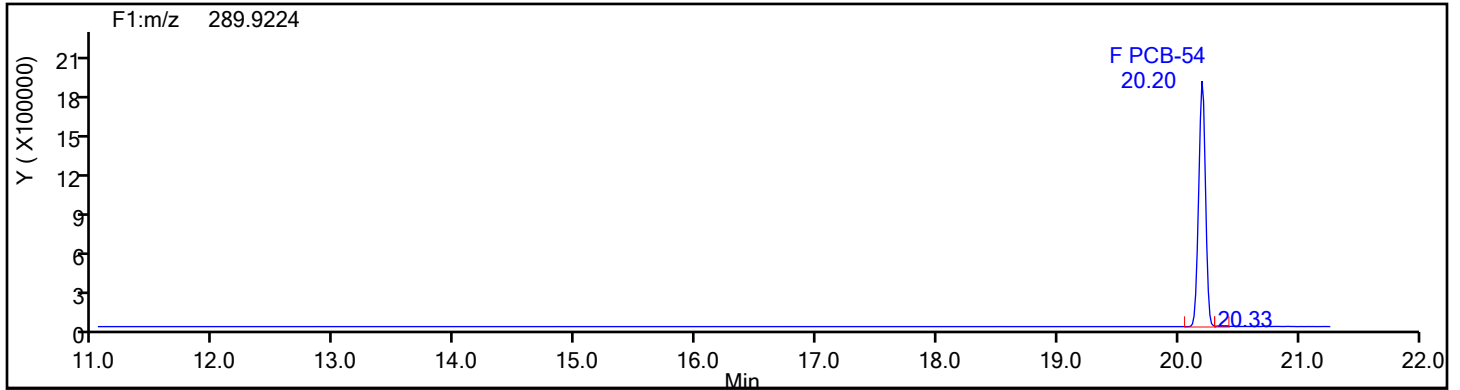
Worklist#: 87130

Sample Line#: 5

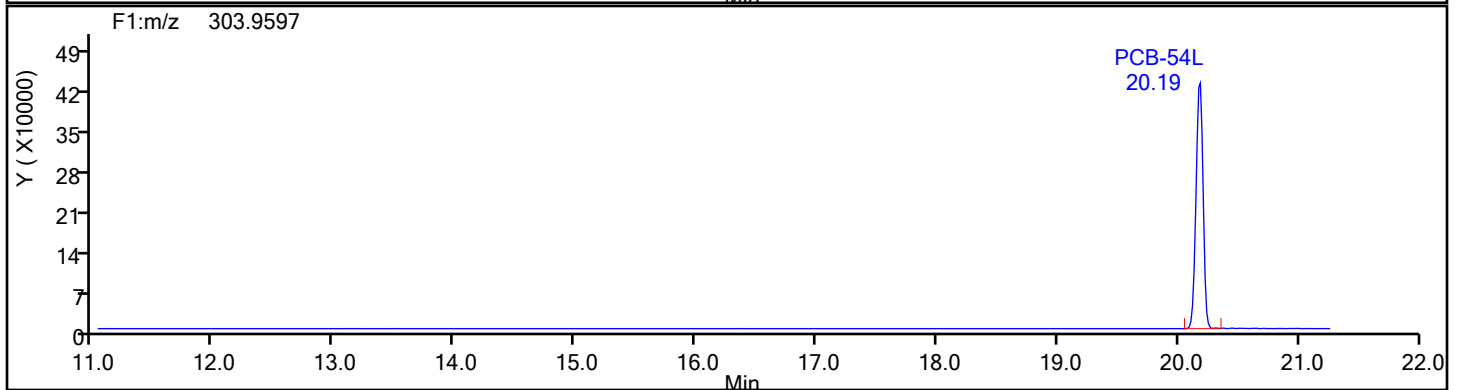
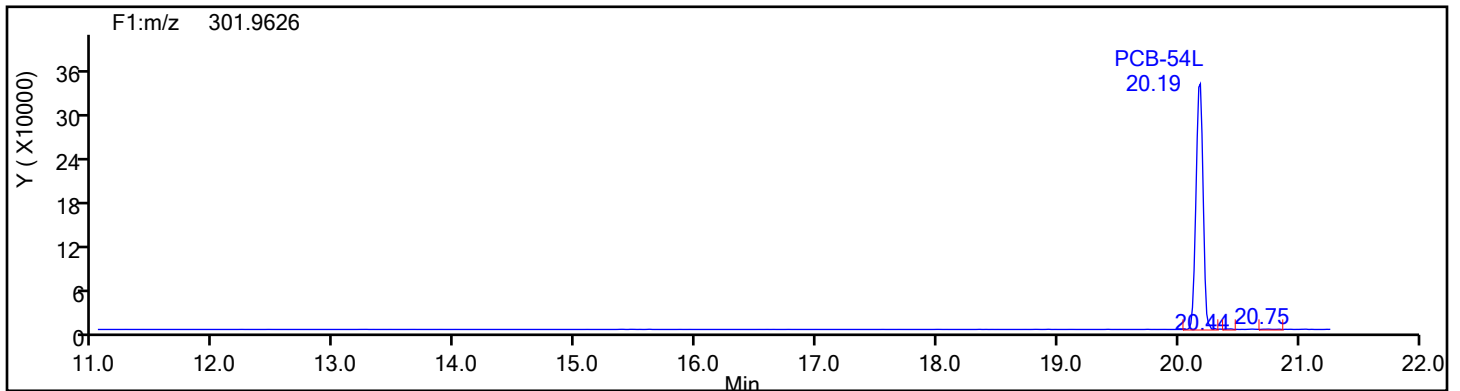
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

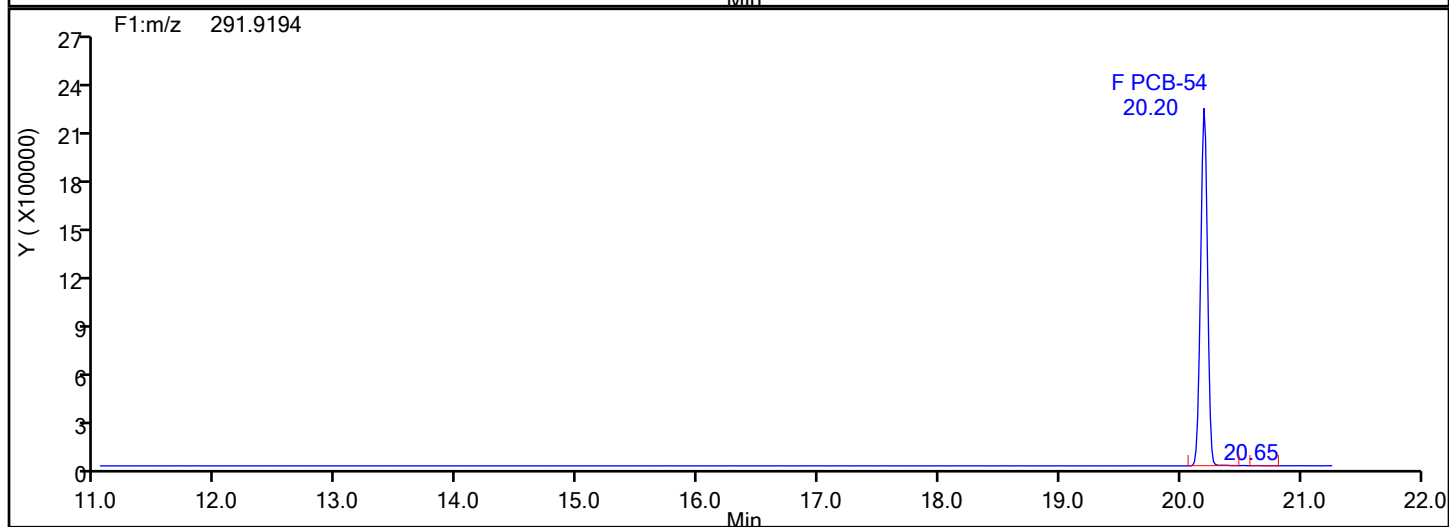
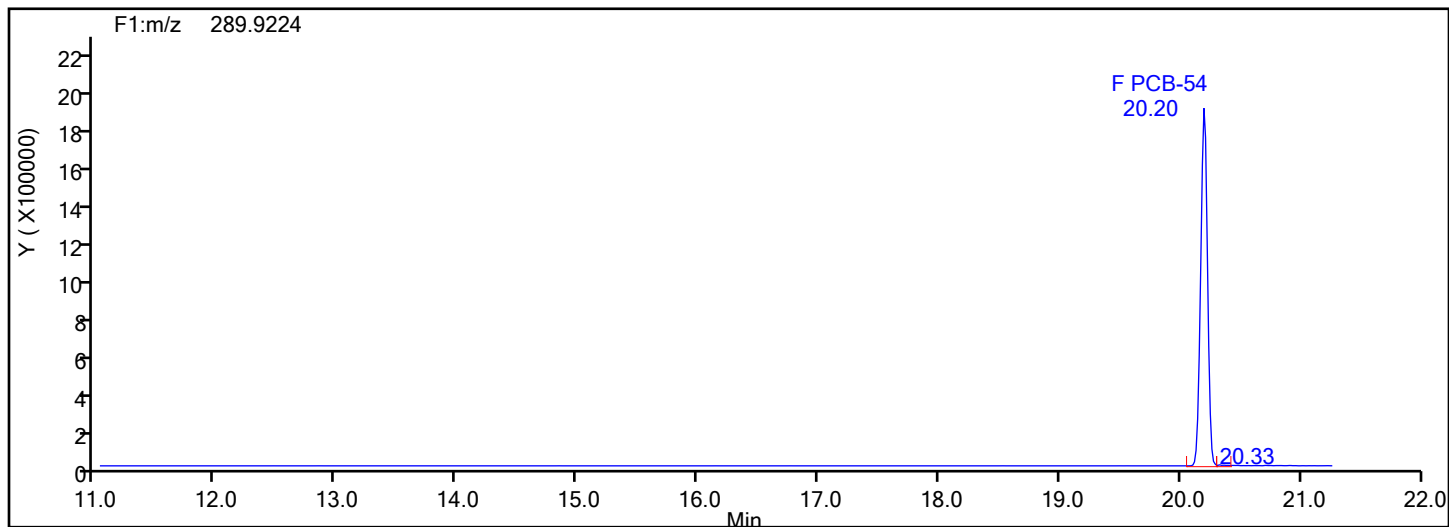
Worklist#: 87130

Sample Line#: 5

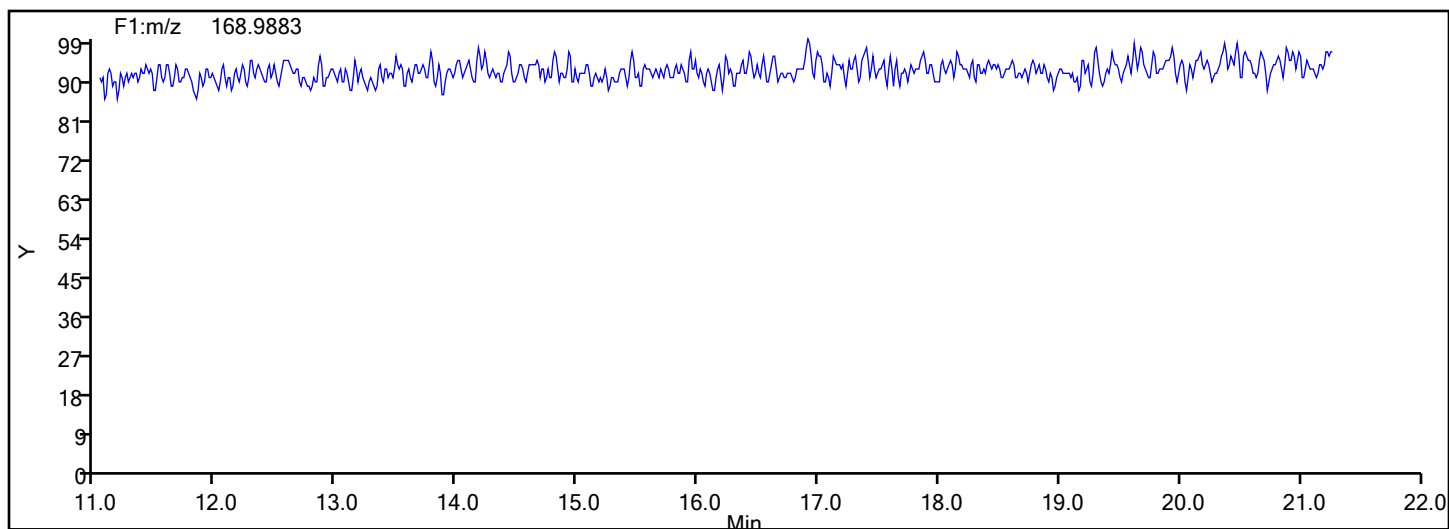
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

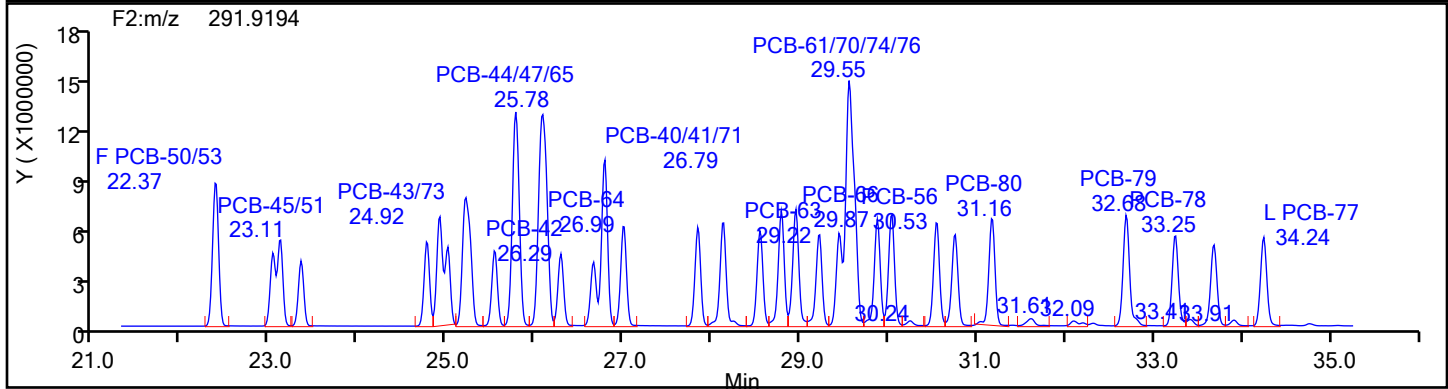
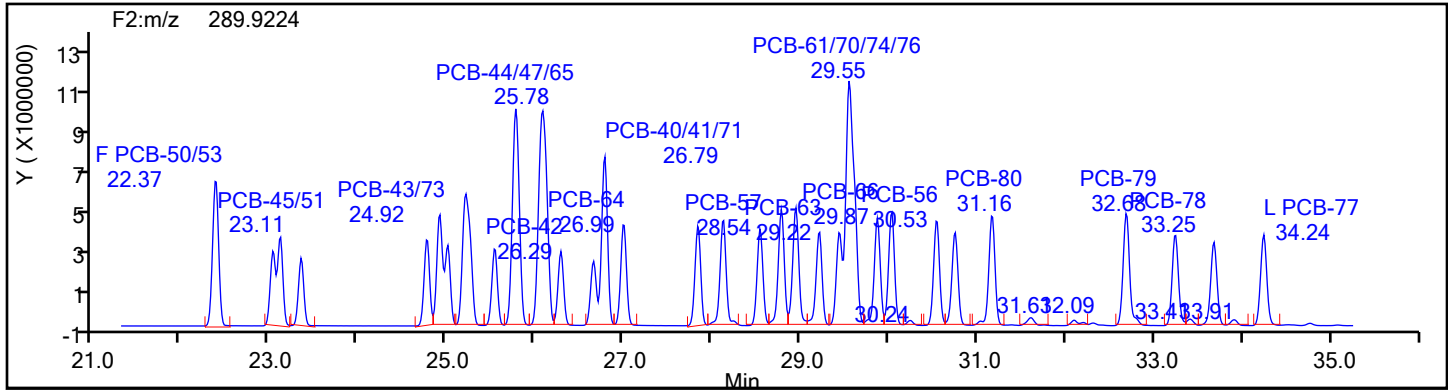
Worklist#: 87130

Sample Line#: 5

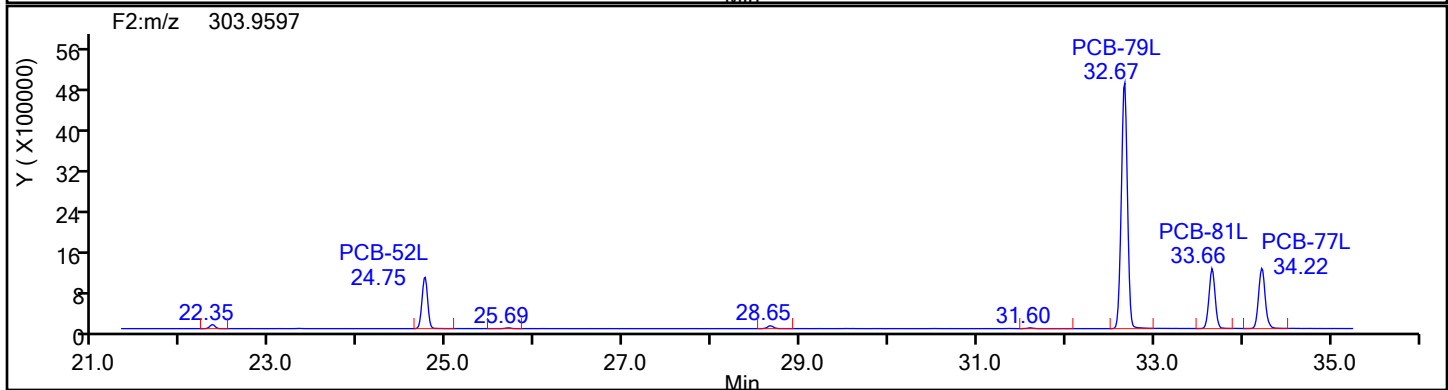
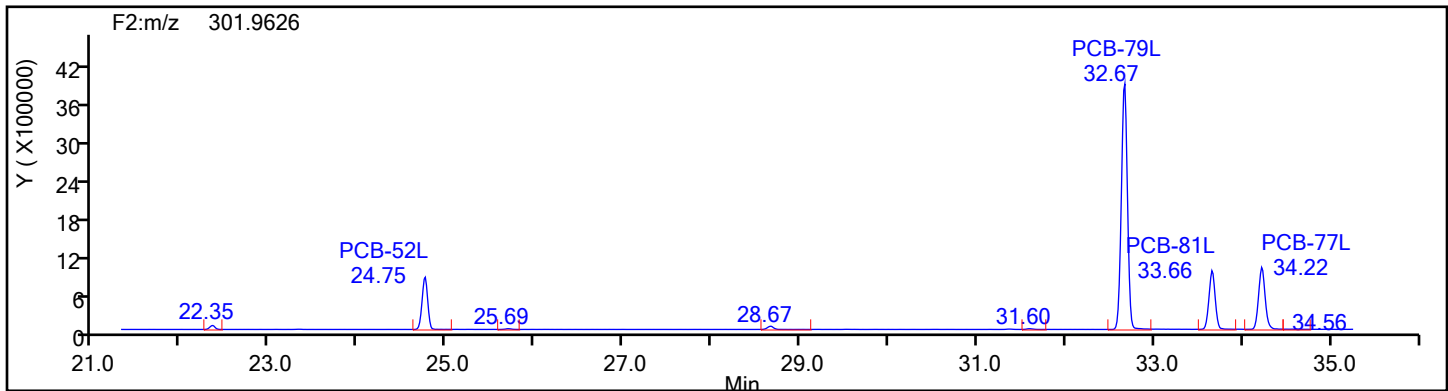
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

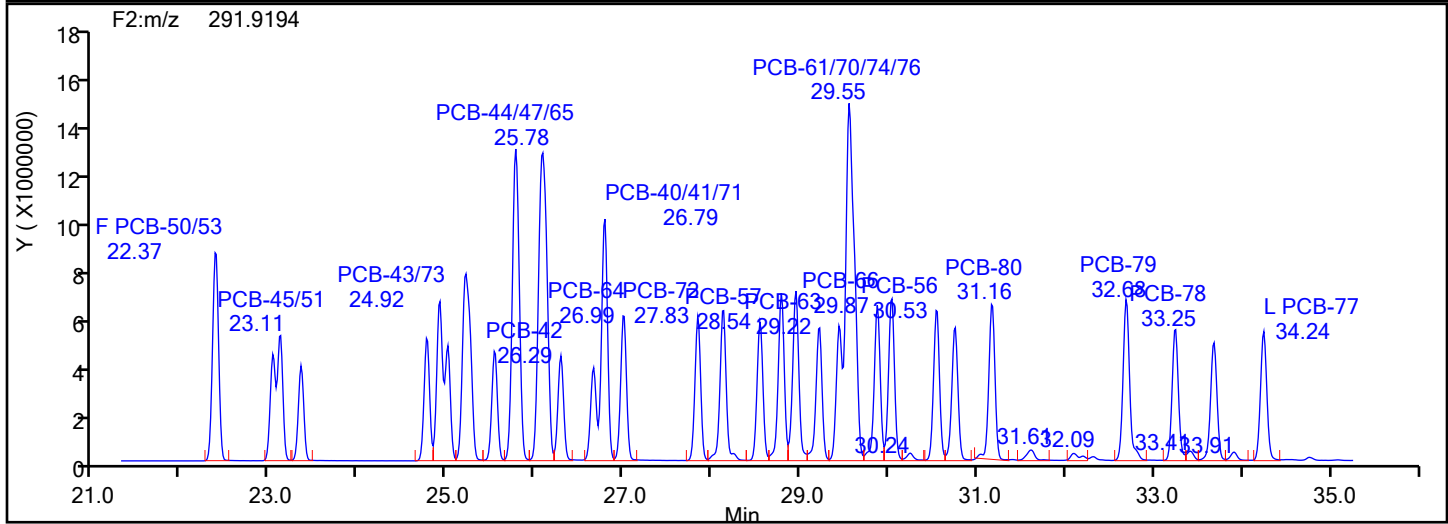
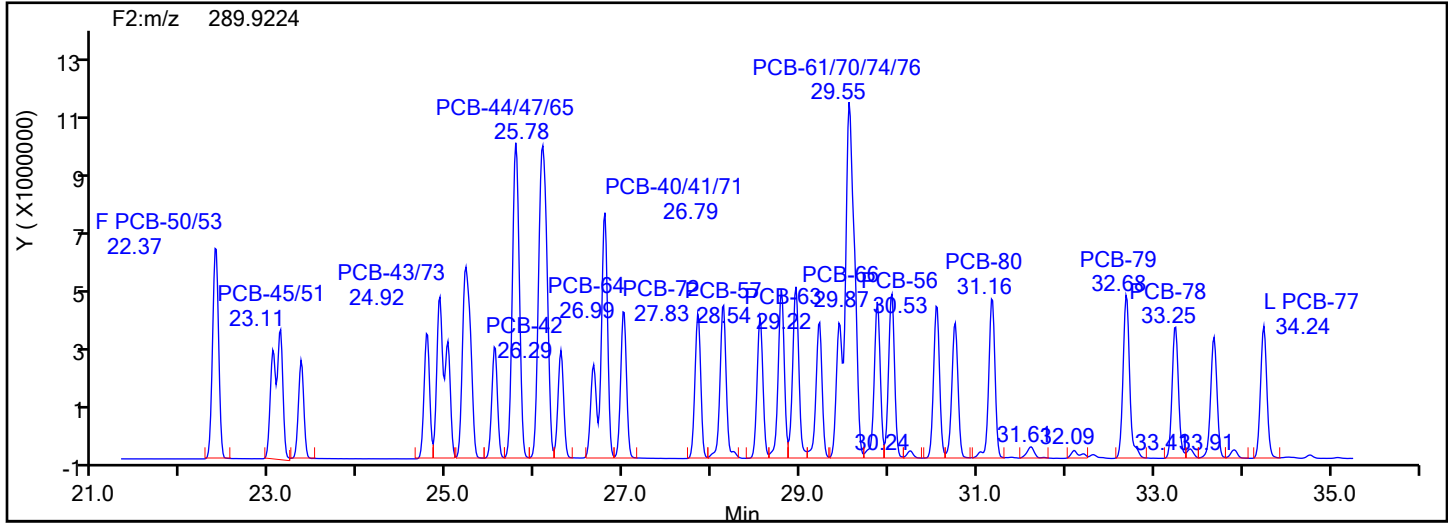
Worklist#: 87130

Sample Line#: 5

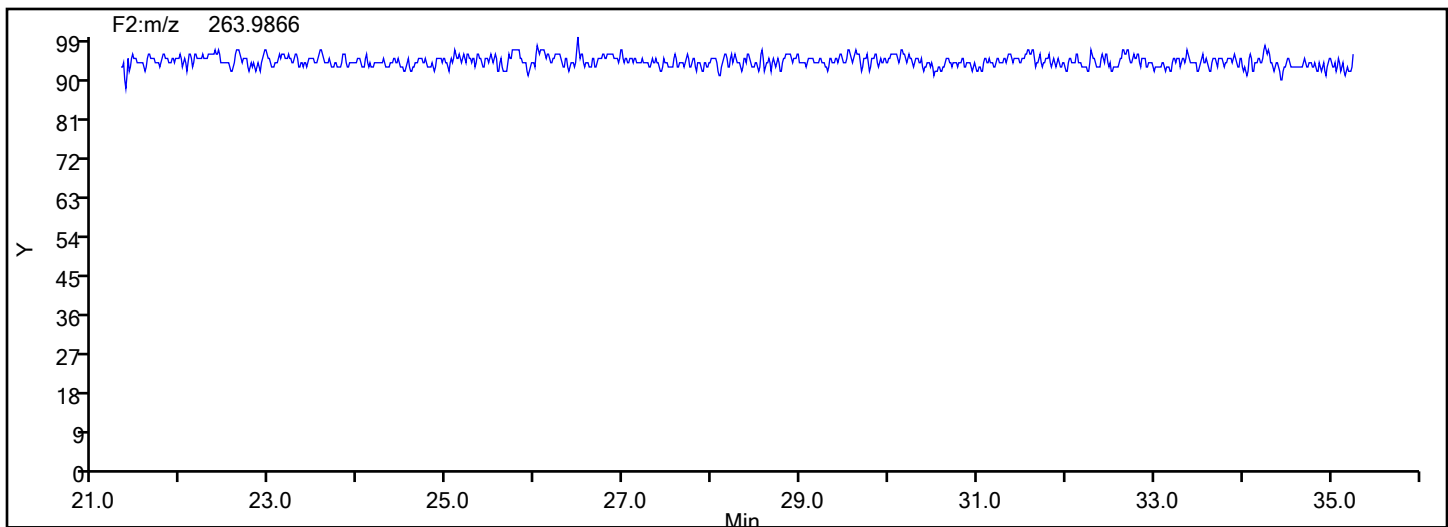
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

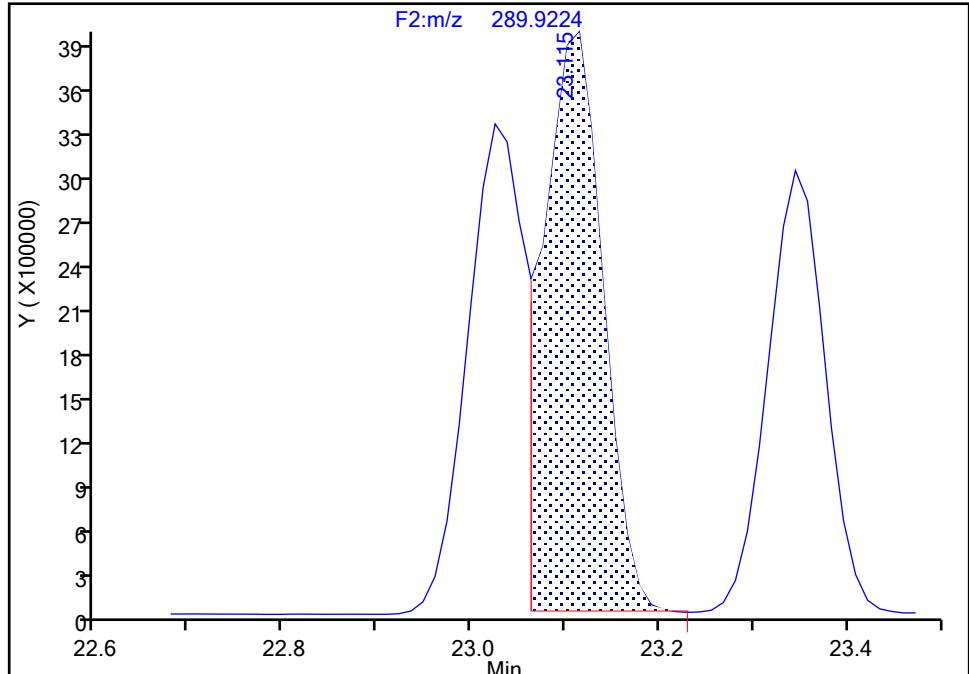
Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 1

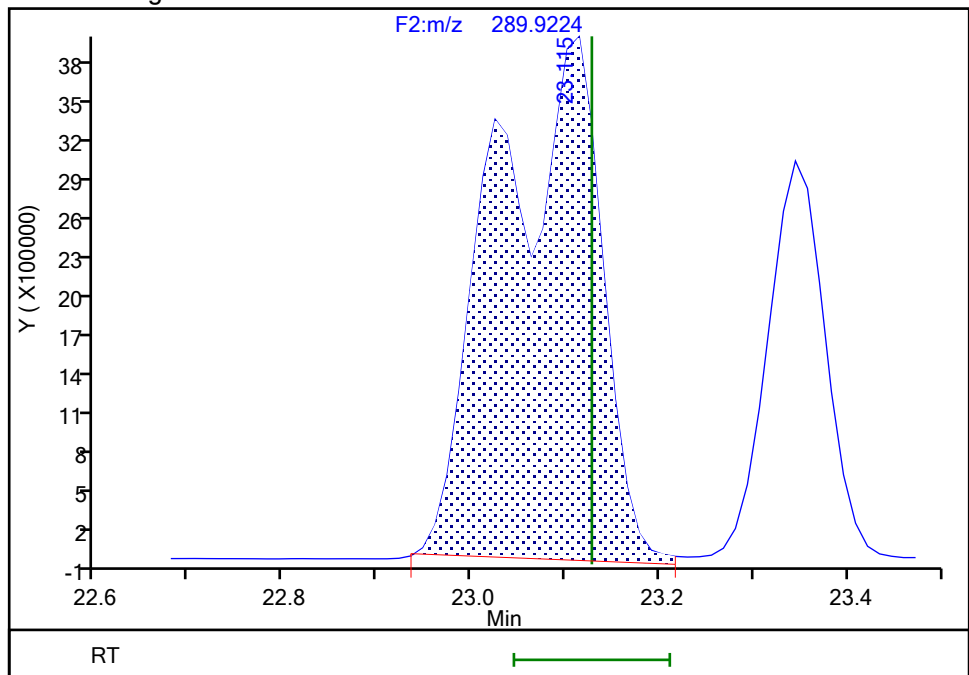
RT: 23.11  
Area: 16898449  
Amount: 501.6231  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.11  
Area: 30645858  
Amount: 771.8655  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

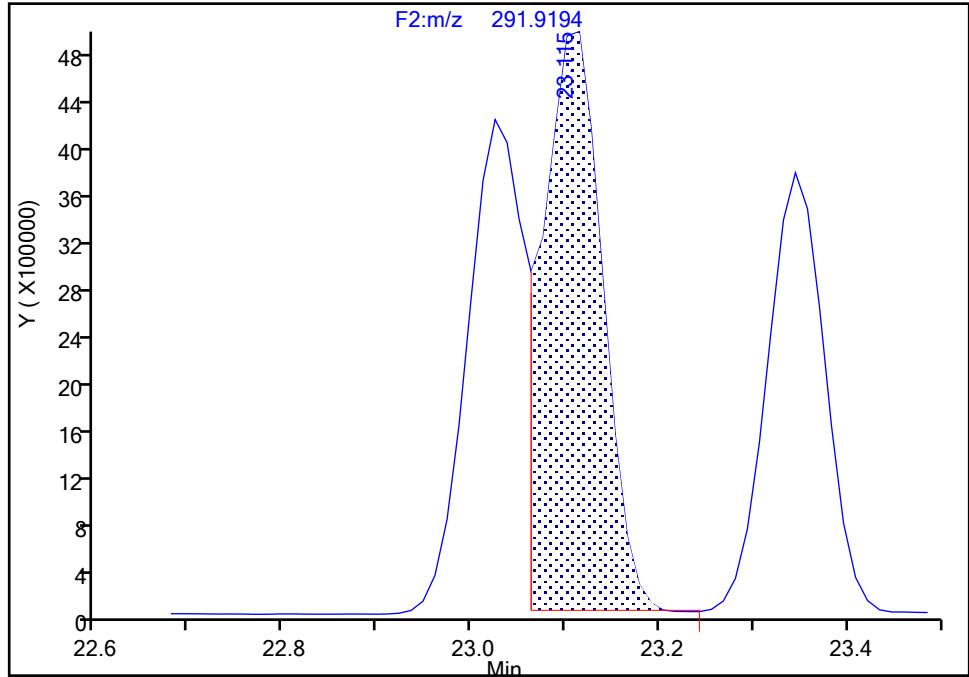
Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 2

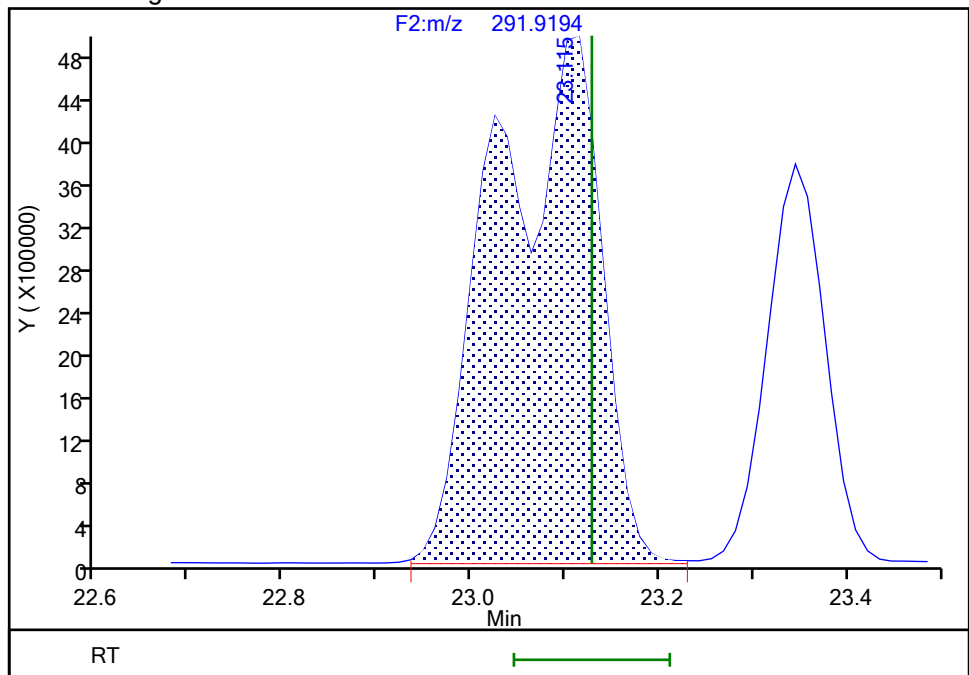
RT: 23.11  
Area: 21433250  
Amount: 501.6231  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.11  
Area: 38839930  
Amount: 771.8655  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

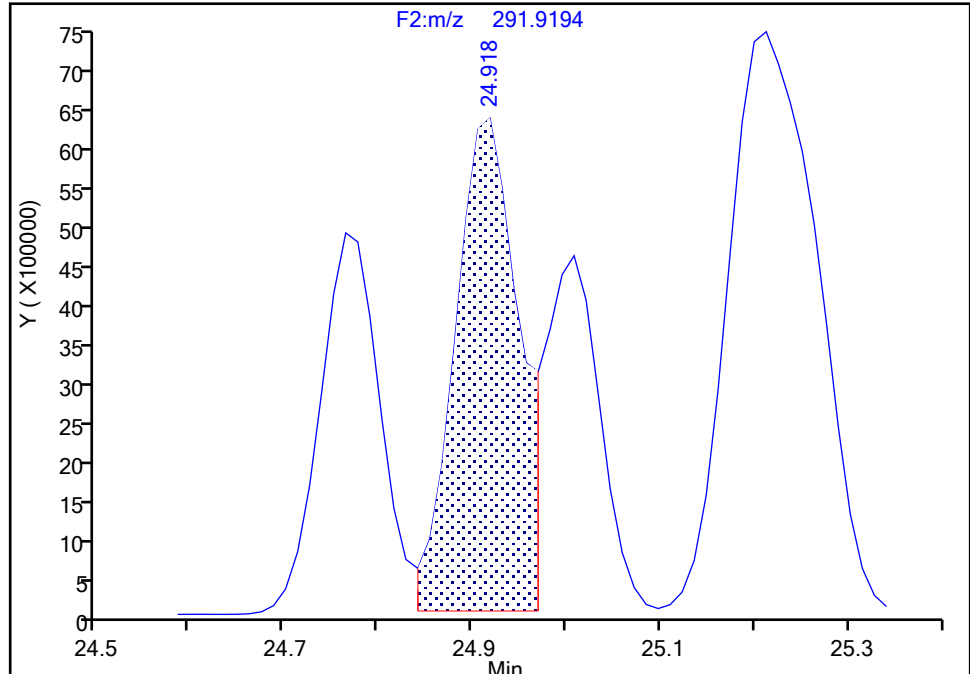
Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

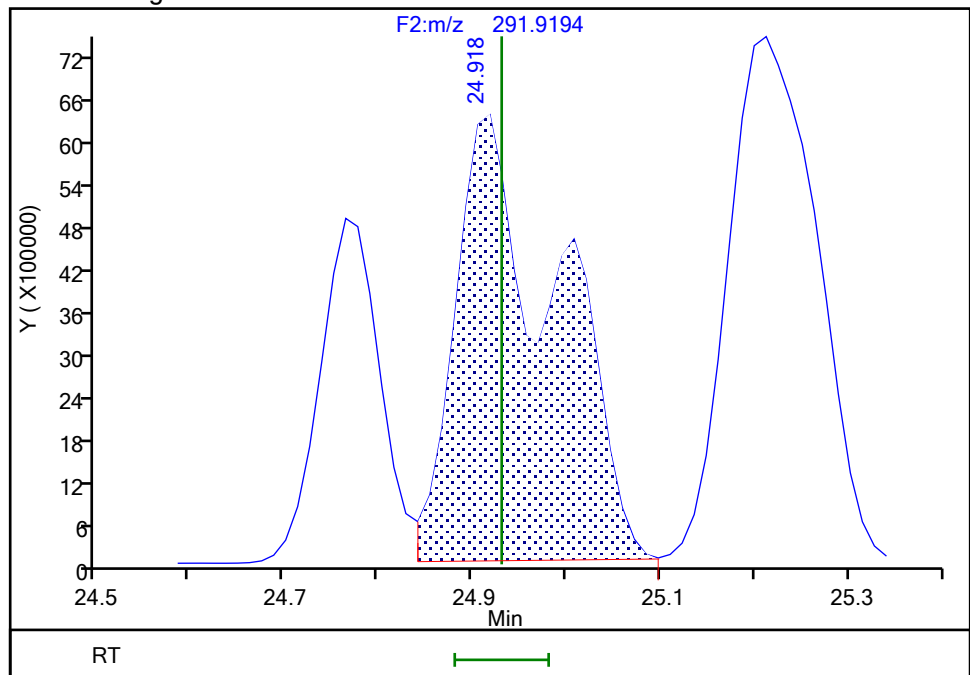
RT: 24.92  
Area: 29202623  
Amount: 531.4284  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.92  
Area: 47225368  
Amount: 749.8375  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

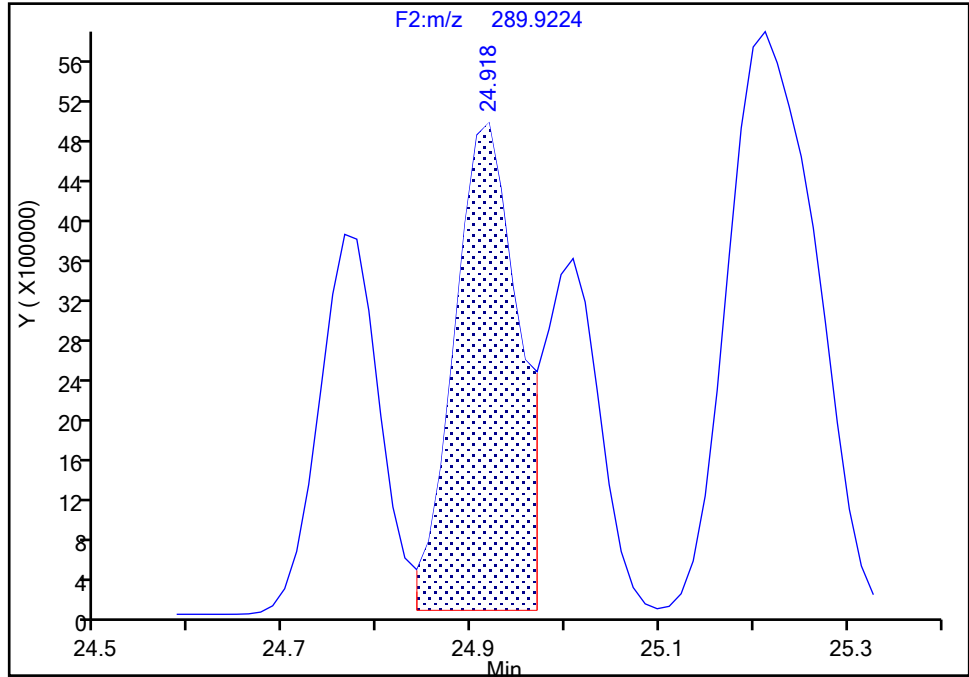
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D  
Lims ID: IC L5  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 1

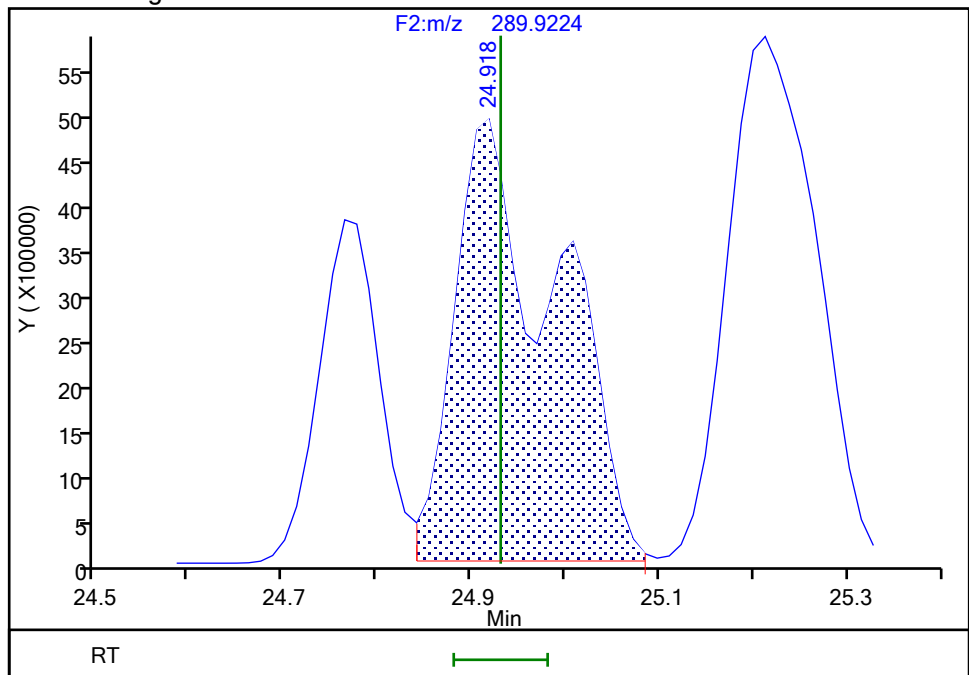
RT: 24.92  
Area: 22988569  
Amount: 531.4284  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.92  
Area: 37178269  
Amount: 749.8375  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:57:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04364  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

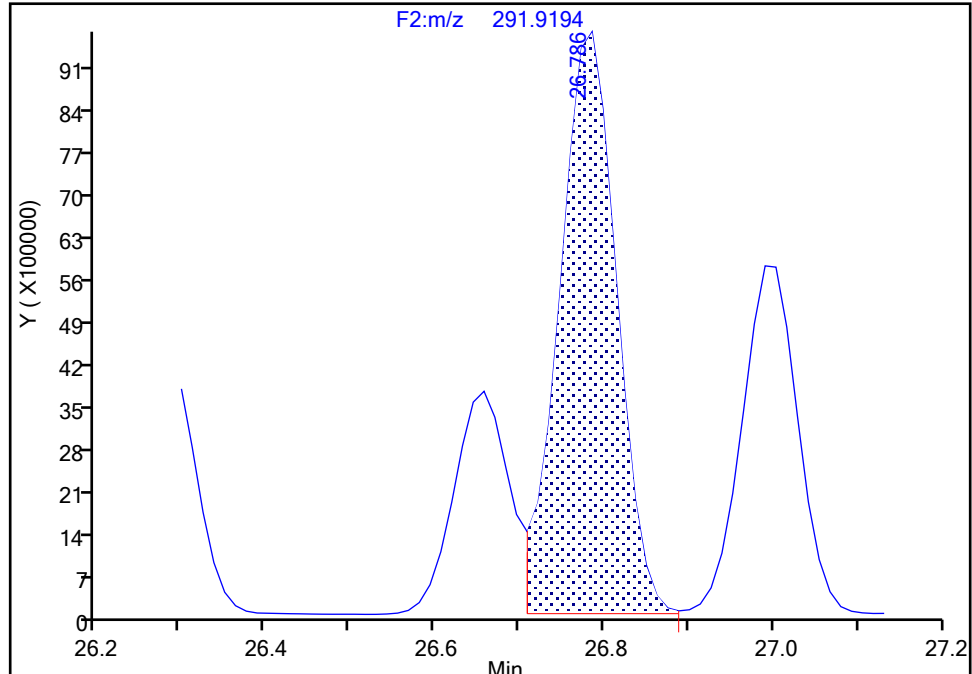
Detector F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 2

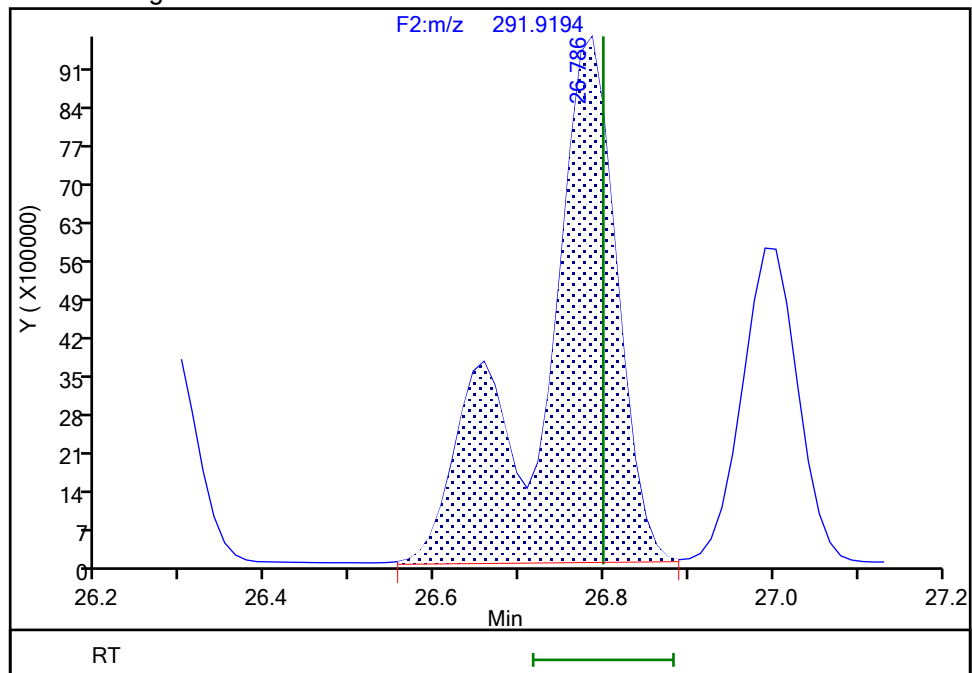
RT: 26.79  
Area: 44846660  
Amount: 906.5085  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.79  
Area: 61486178  
Amount: 1134.5940  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

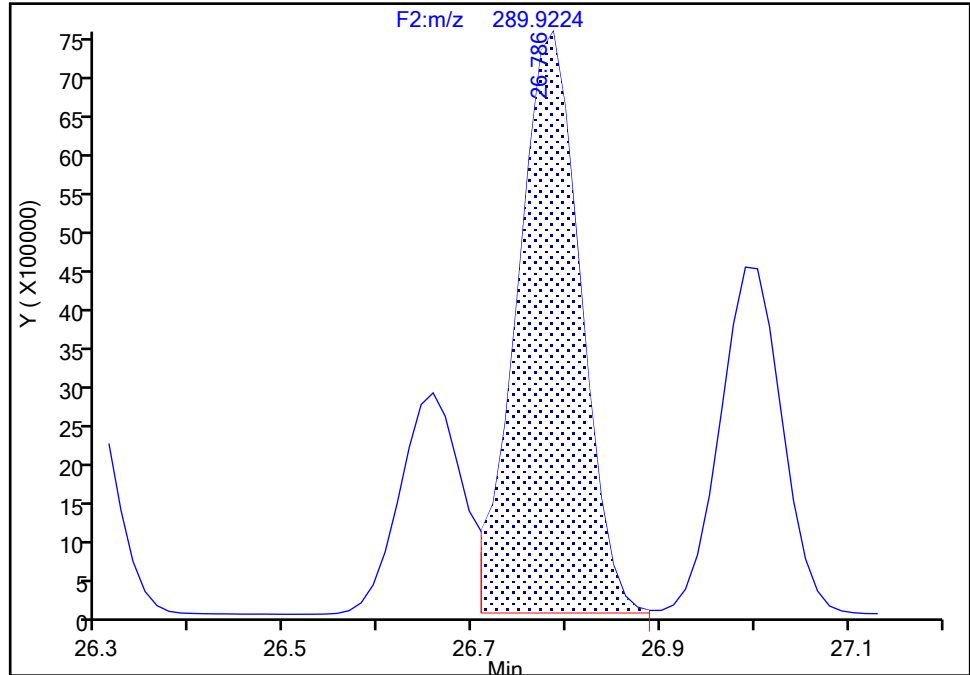
Detector F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 1

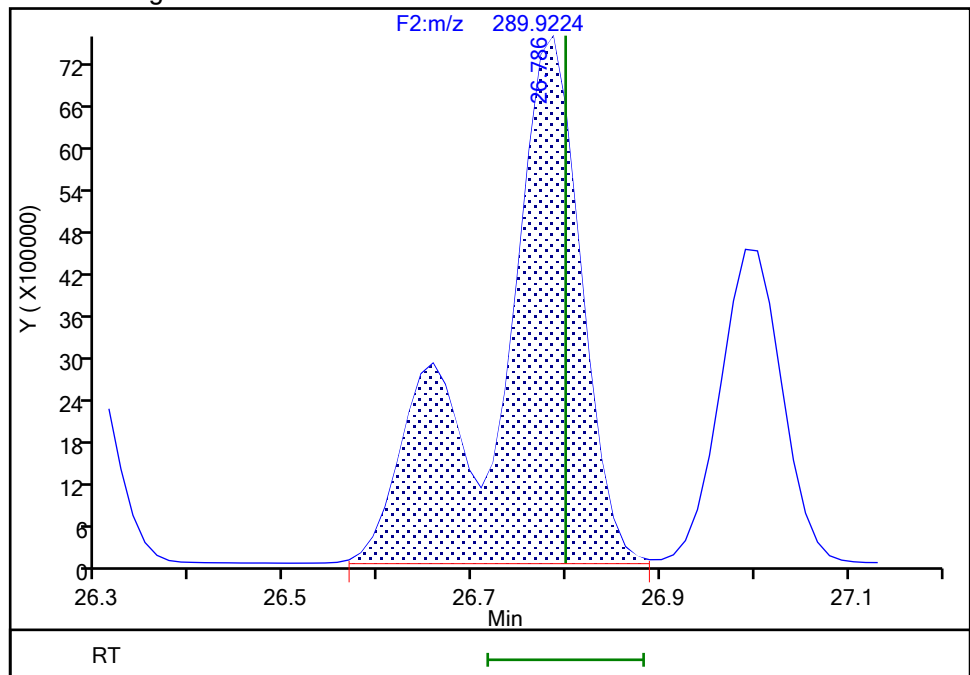
RT: 26.79  
Area: 35210554  
Amount: 906.5085  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.79  
Area: 48057577  
Amount: 1134.5940  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-002024-4366

9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

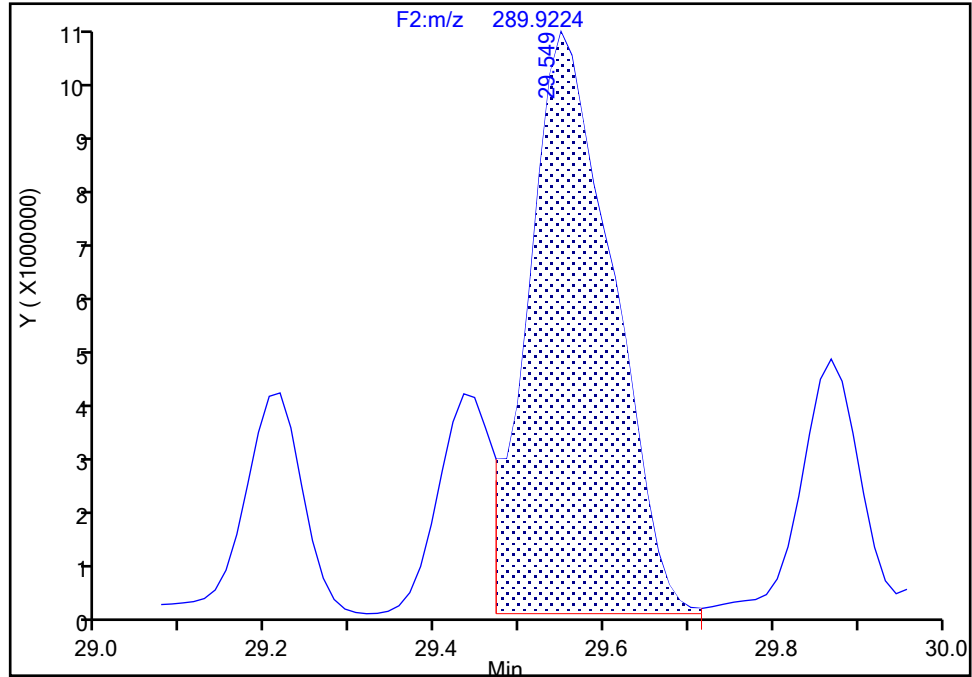
Detector F2(21.81 :35.54 )

**PCB-61/70/74/76, CAS: STL01808**

Signal: 1

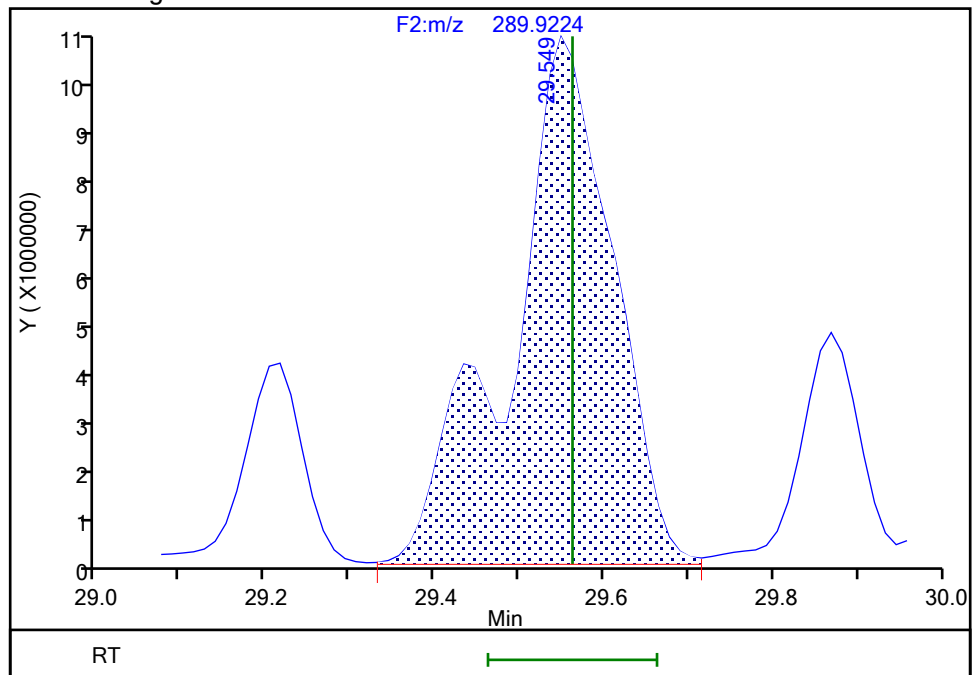
RT: 29.55  
Area: 75252399  
Amount: 1432.6490  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.55  
Area: 92572268  
Amount: 1539.9013  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:26 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

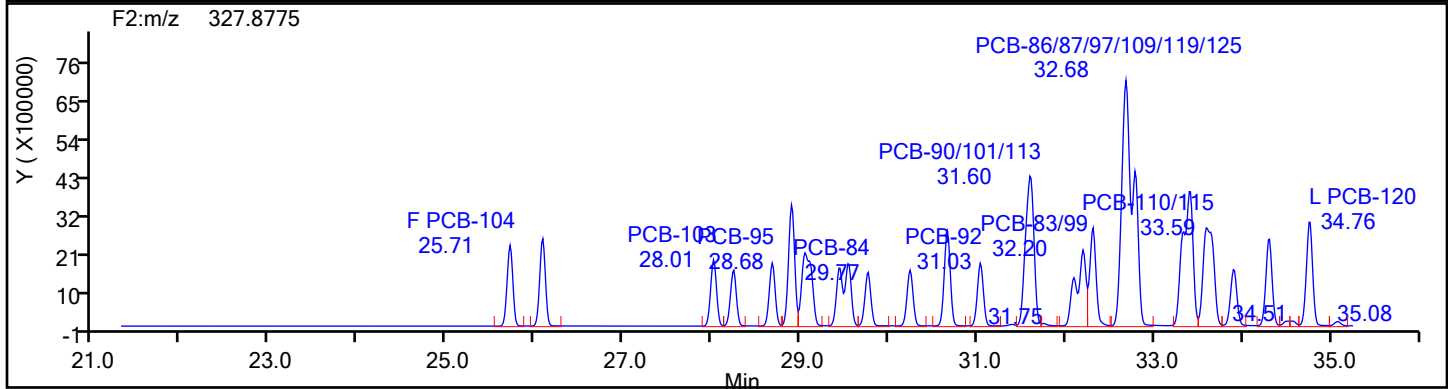
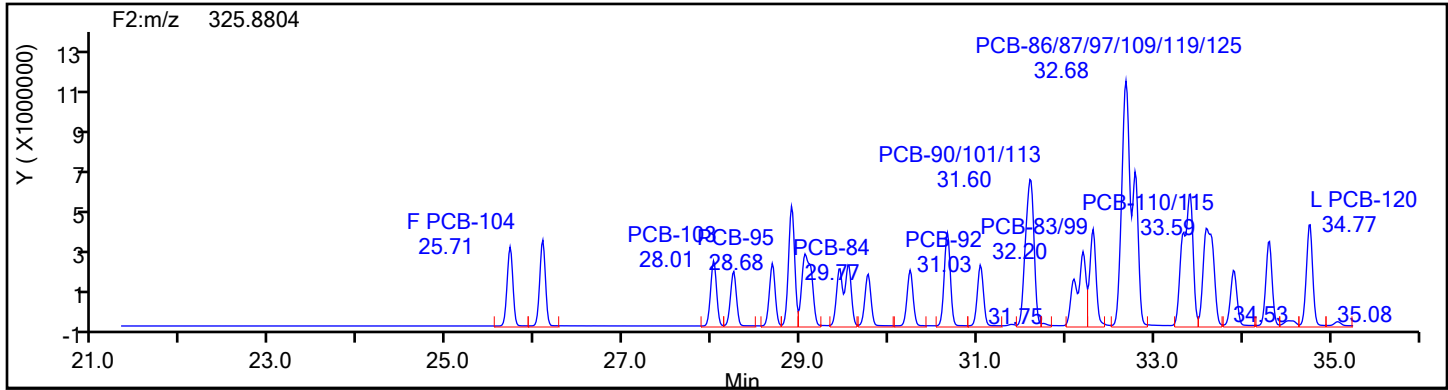
Worklist#: 87130

Sample Line#: 5

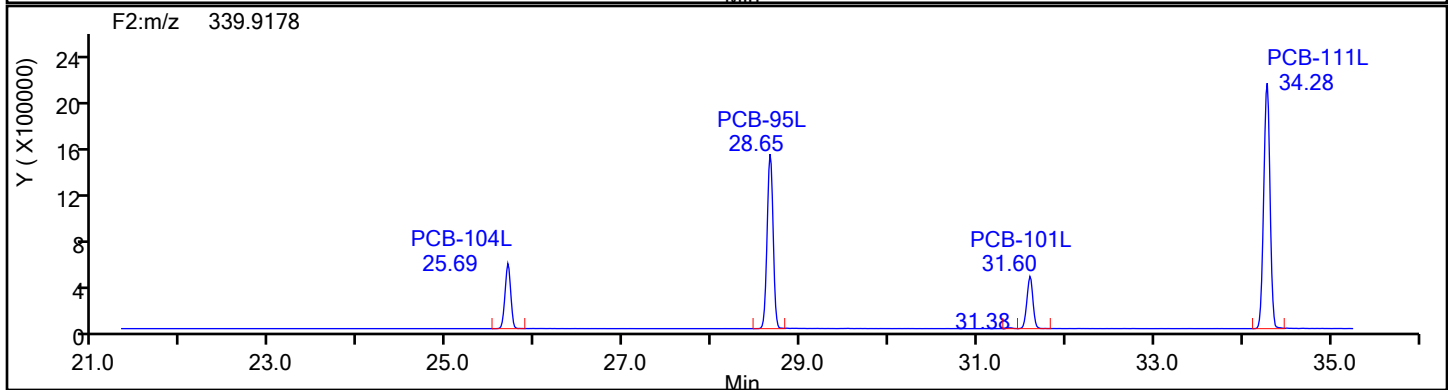
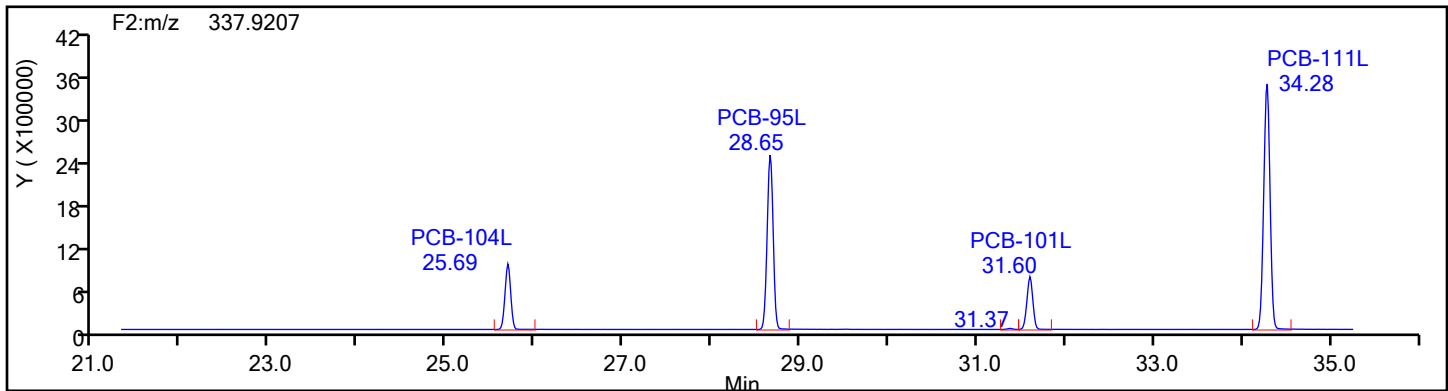
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

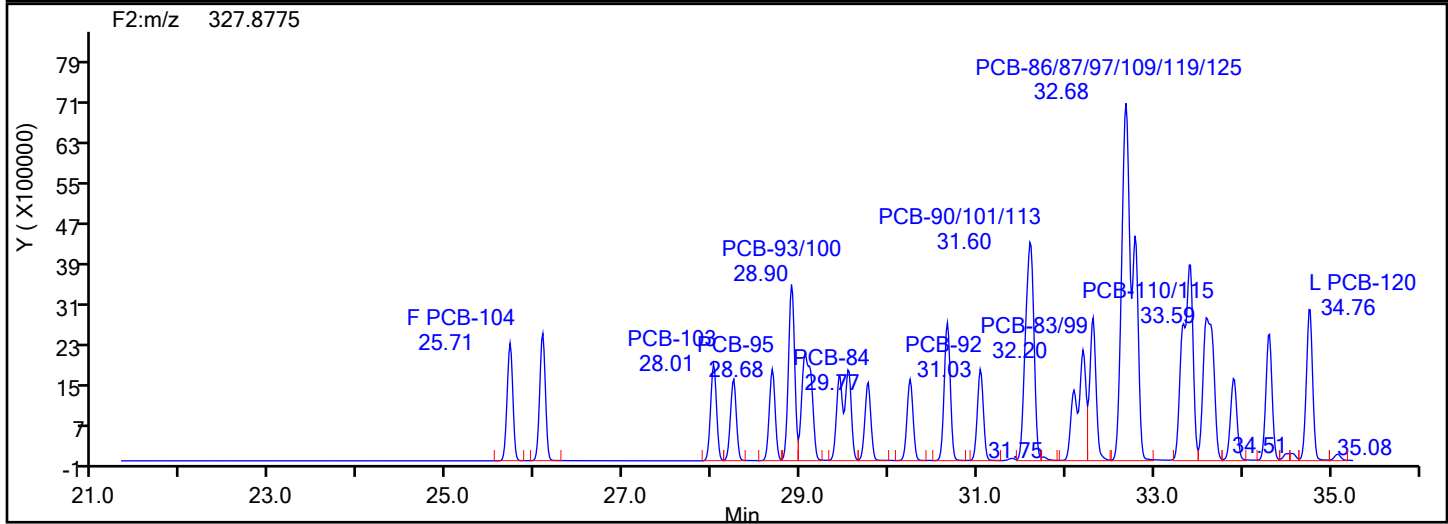
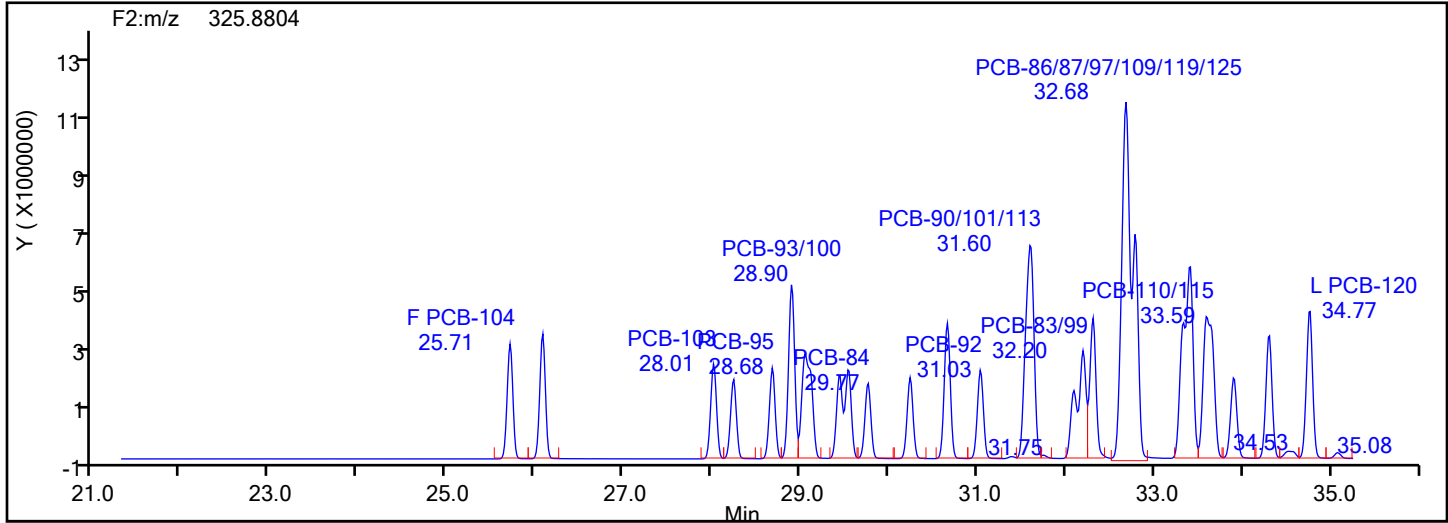
Worklist#: 87130

Sample Line#: 5

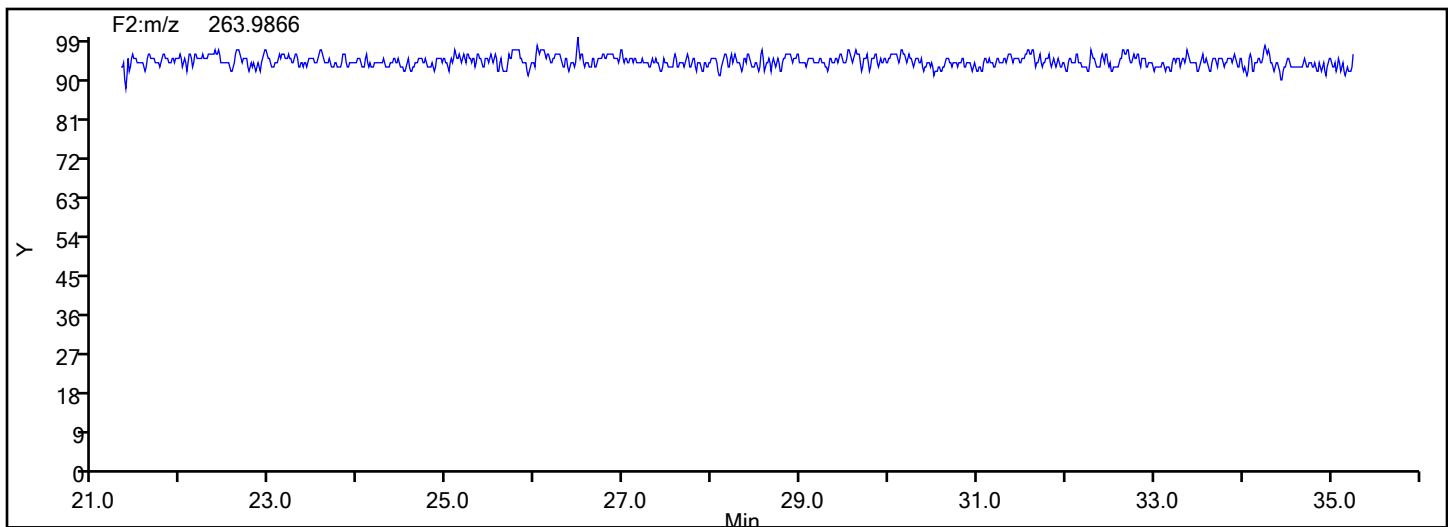
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

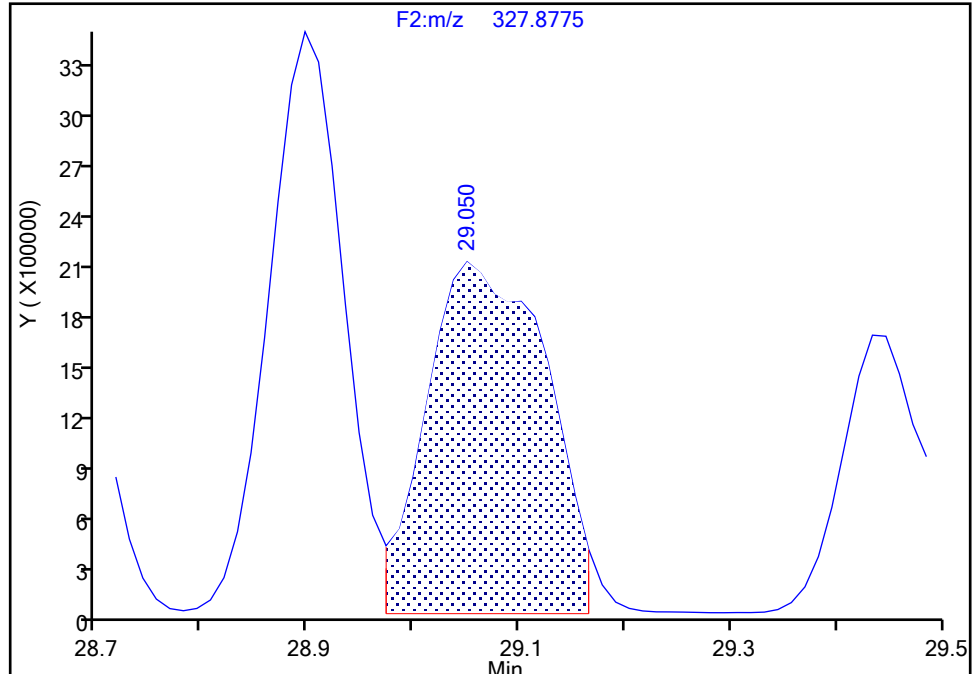
Detector F2(21.81 :35.54 )

**PCB-98/102, CAS: STL01843**

Signal: 2

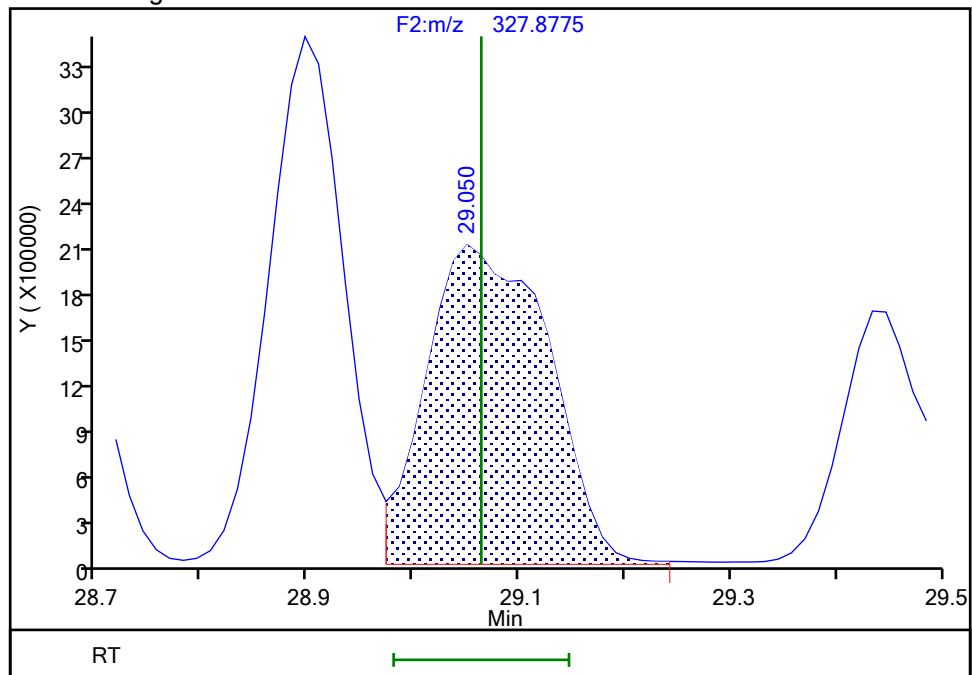
RT: 29.05  
Area: 16404335  
Amount: 779.9834  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.05  
Area: 16762369  
Amount: 785.4233  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

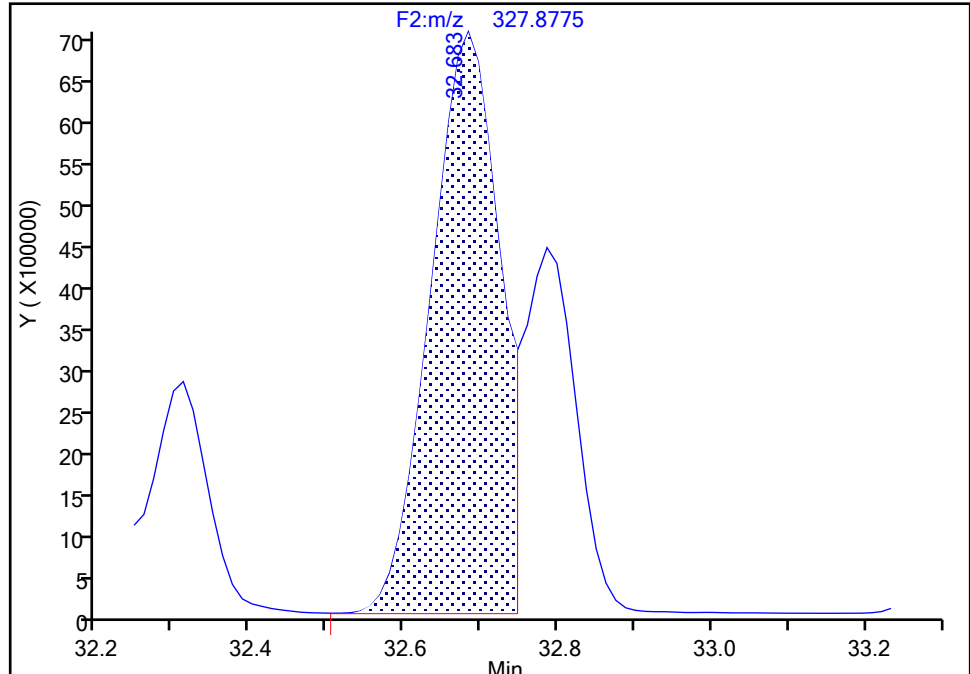
Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

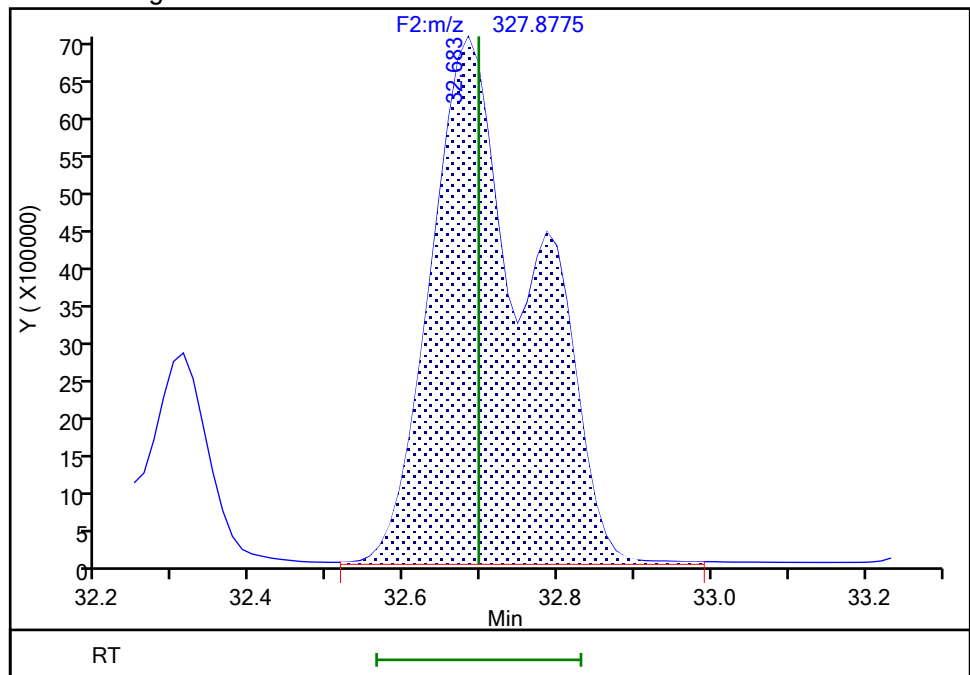
RT: 32.68  
Area: 43345087  
Amount: 1824.1601  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.68  
Area: 63904922  
Amount: 2391.0004  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:58:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

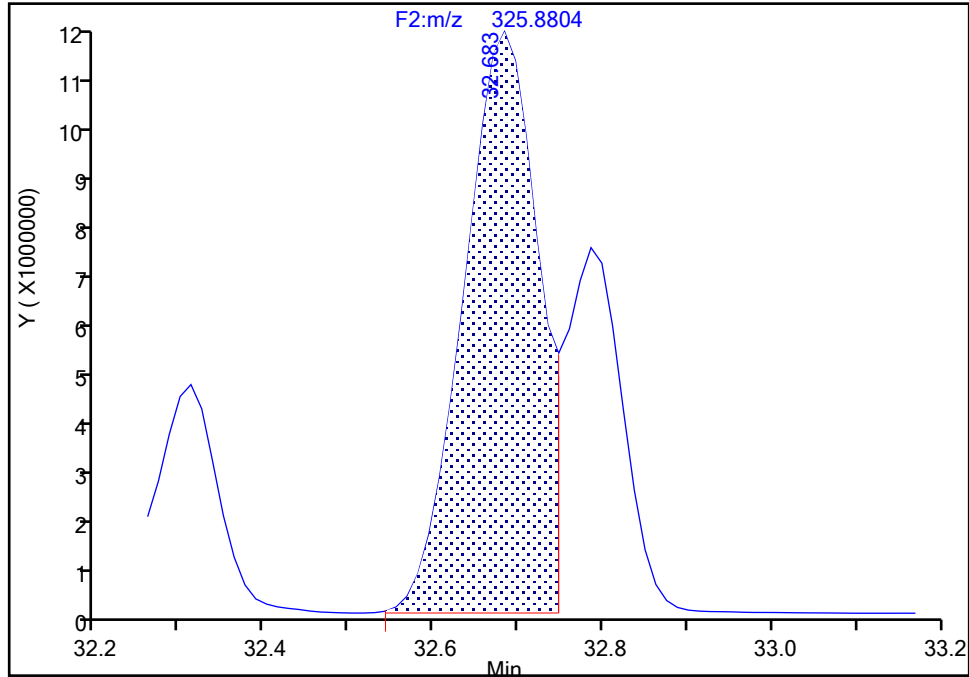
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D  
Lims ID: IC L5  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

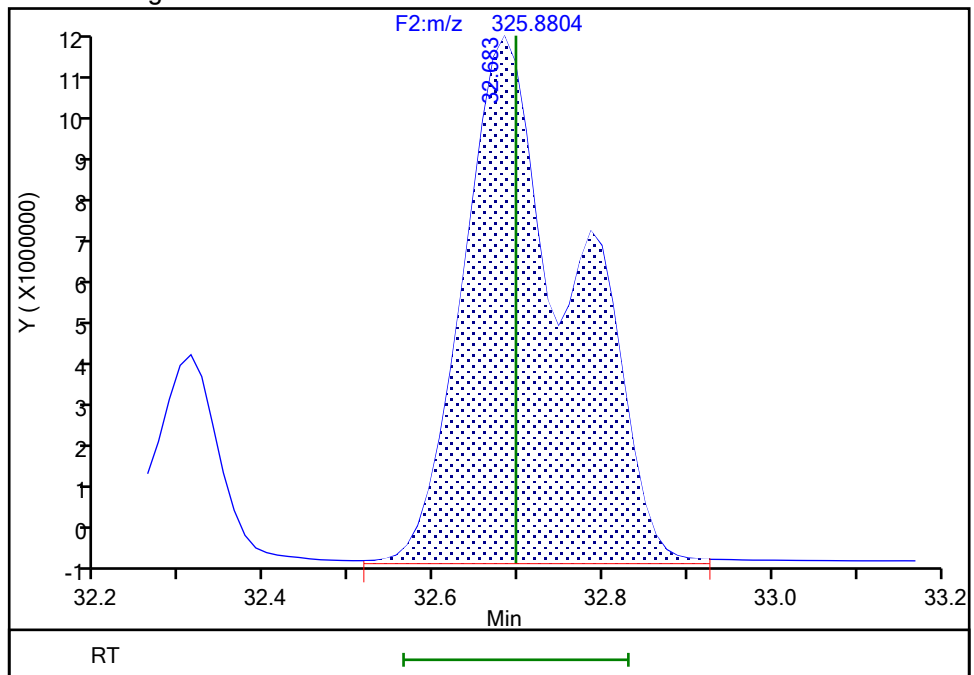
RT: 32.68  
Area: 69451865  
Amount: 1824.1601  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.68  
Area: 103164202  
Amount: 2391.0004  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:59:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04372  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

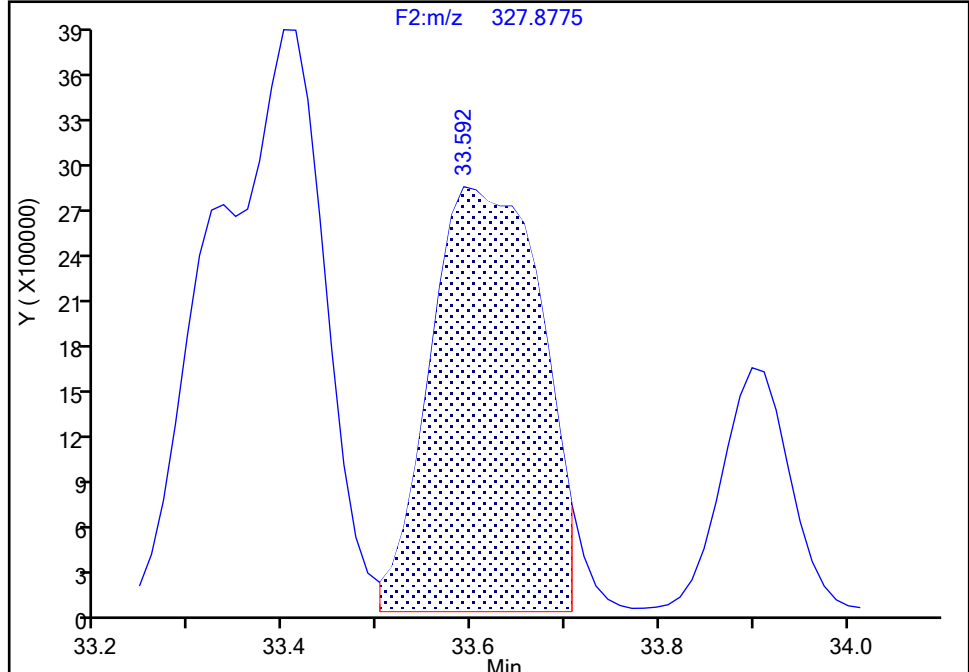
Detector F2(21.81 :35.54 )

**PCB-110/115, CAS: STL01826**

Signal: 2

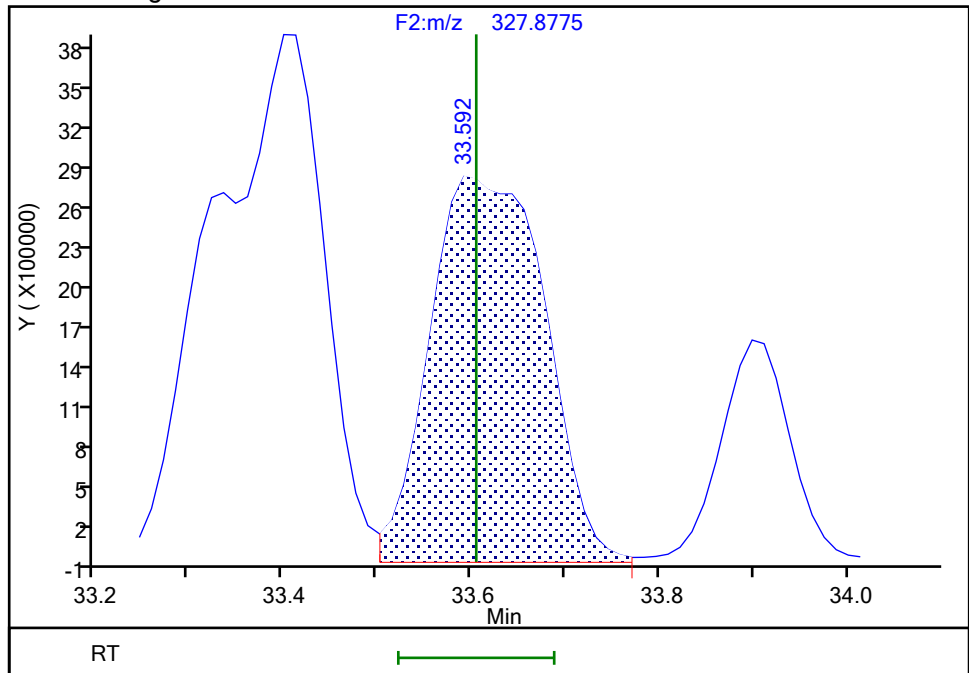
RT: 33.59  
Area: 23018669  
Amount: 766.0630  
Amount Units: pg/ul

## Processing Integration Results



RT: 33.59  
Area: 23836087  
Amount: 774.7018  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:59:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

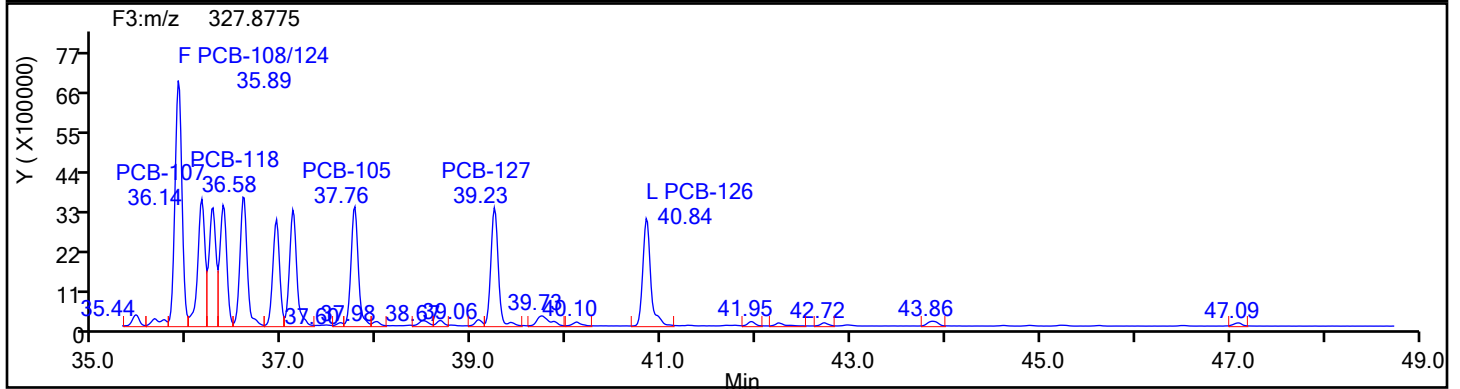
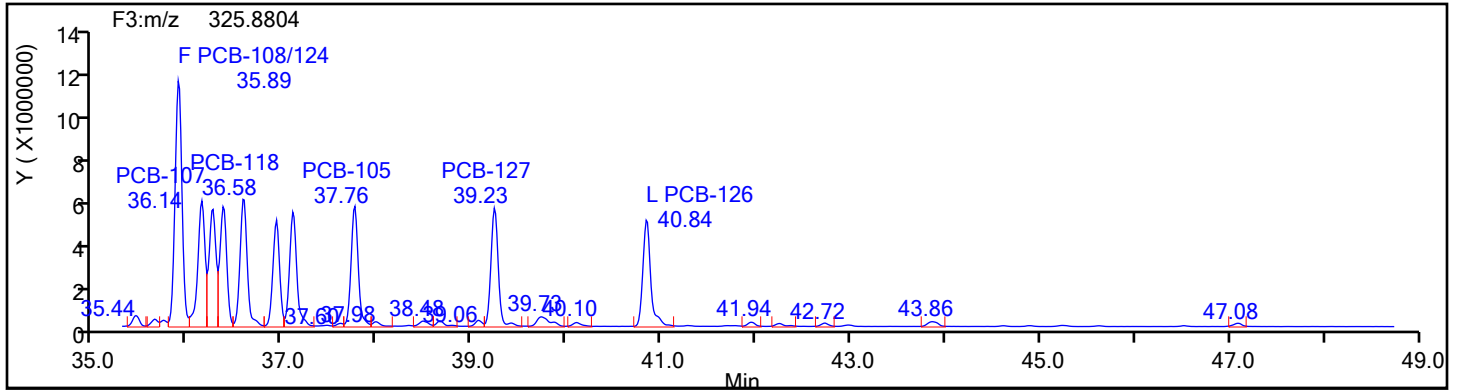
Worklist#: 87130

Sample Line#: 5

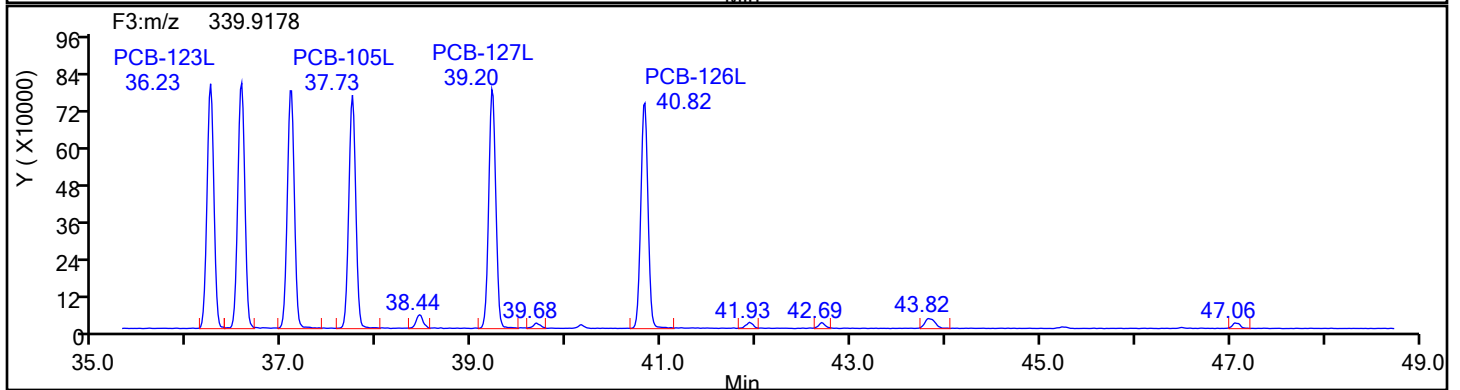
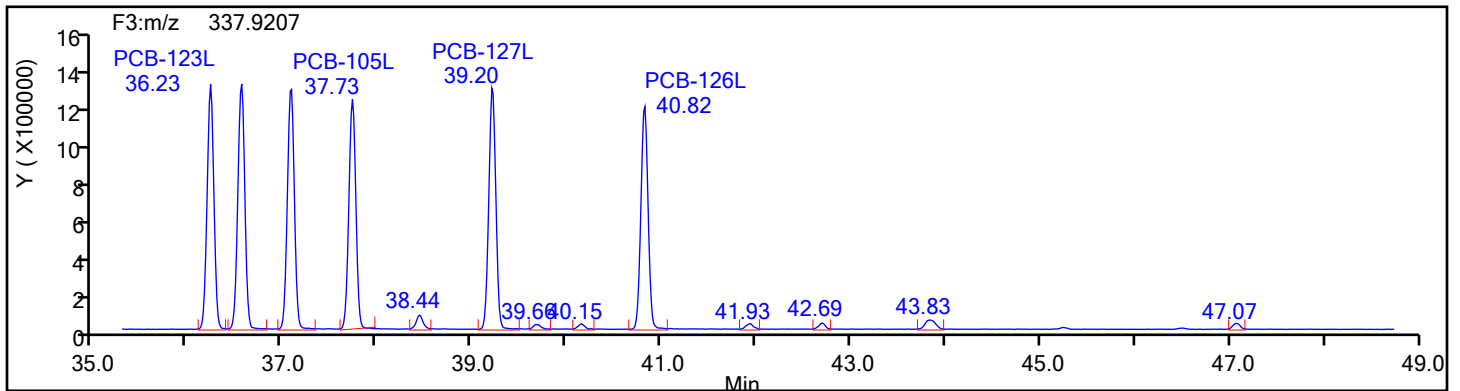
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

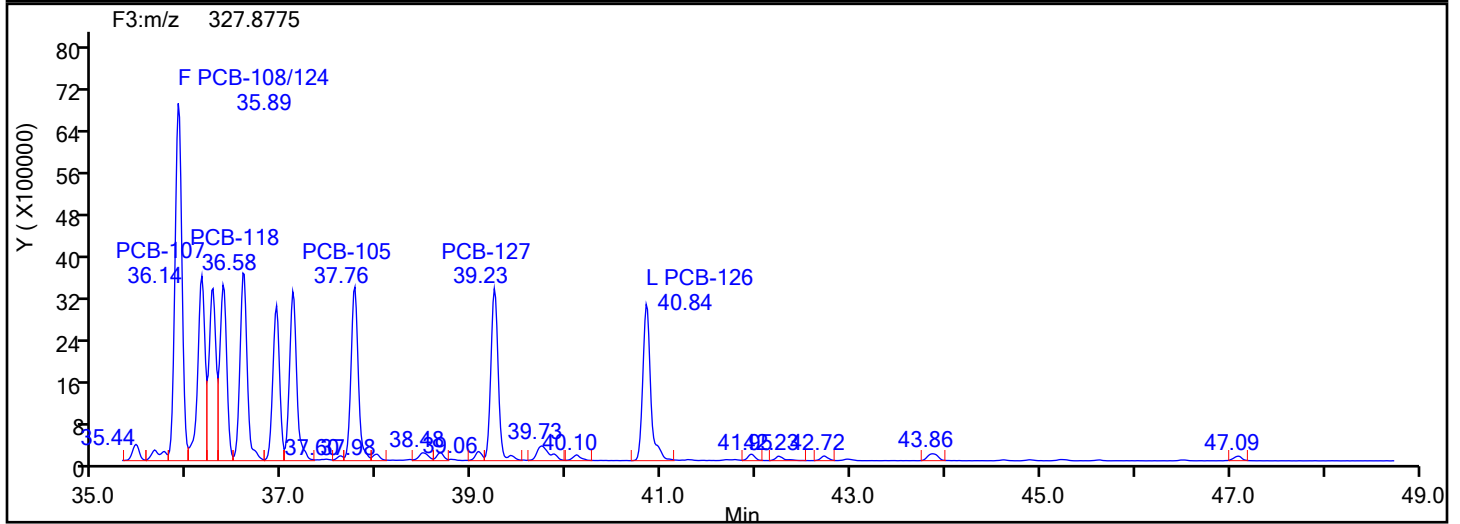
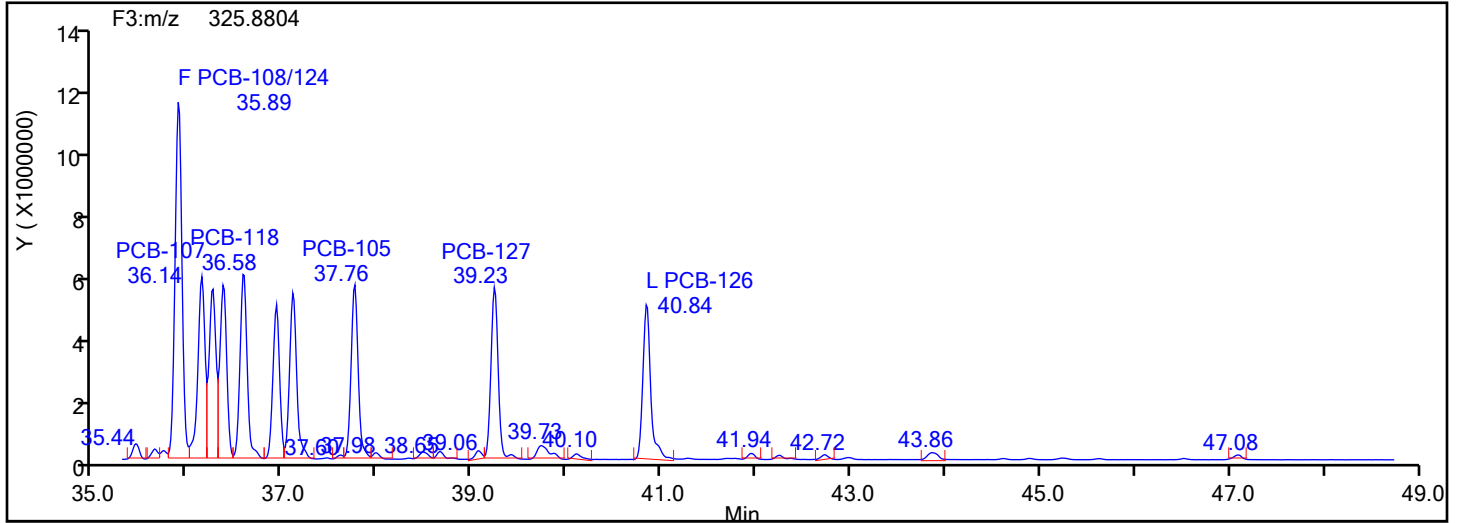
Worklist#: 87130

Sample Line#: 5

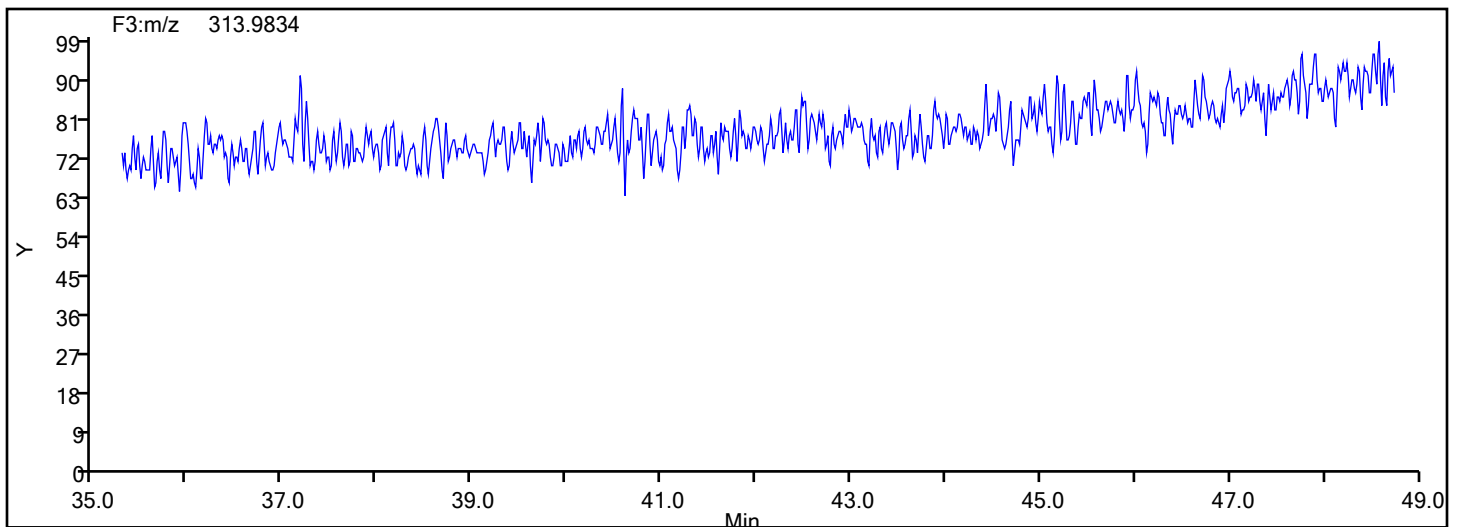
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



## PePCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

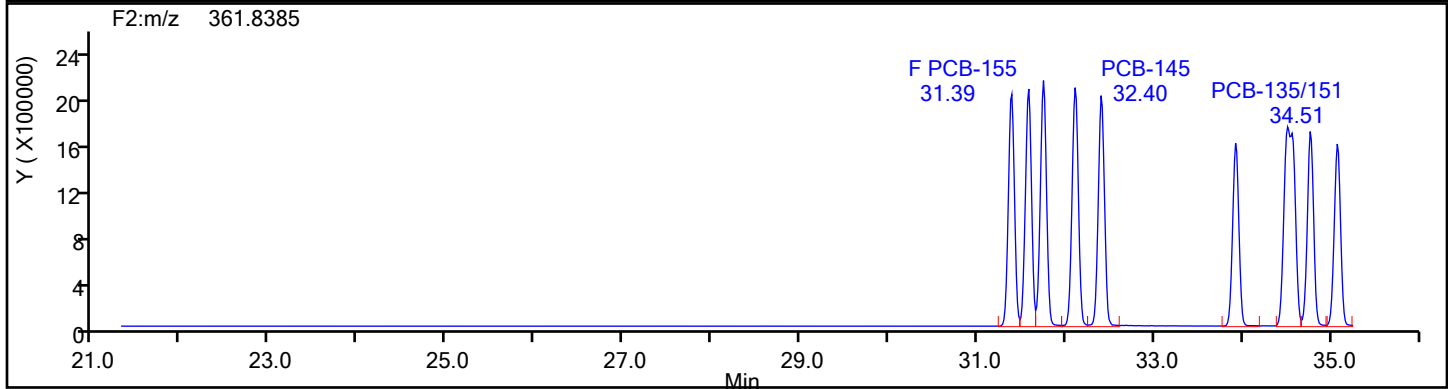
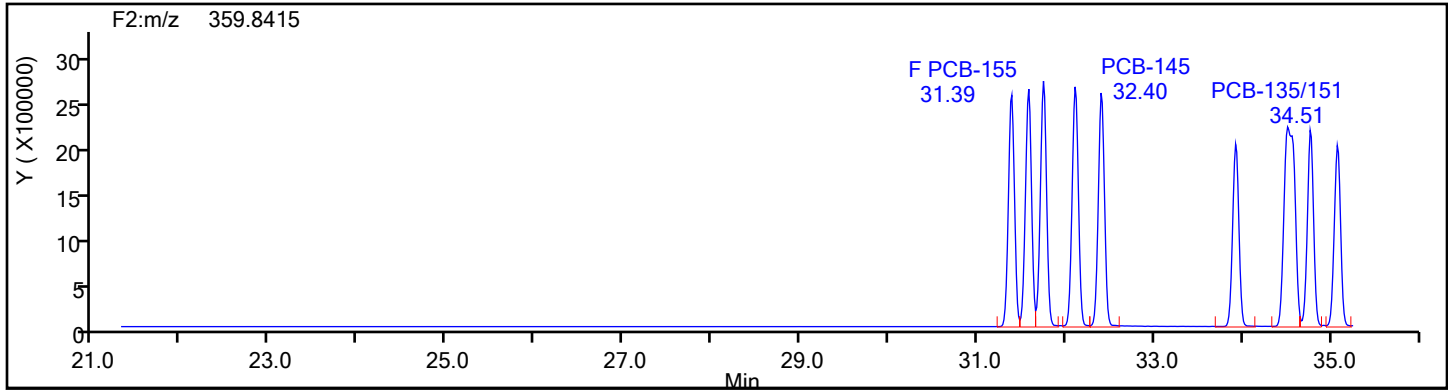
Worklist#: 87130

Sample Line#: 5

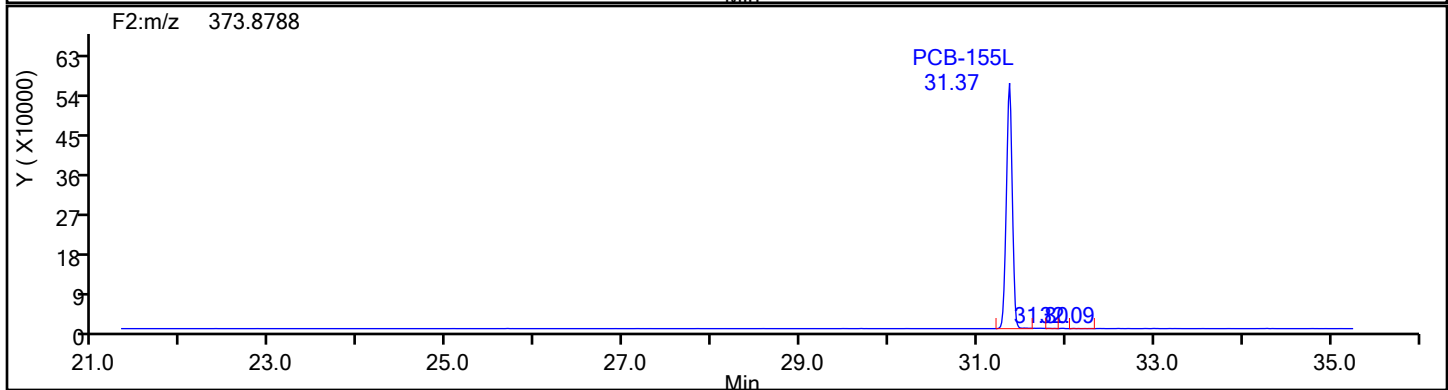
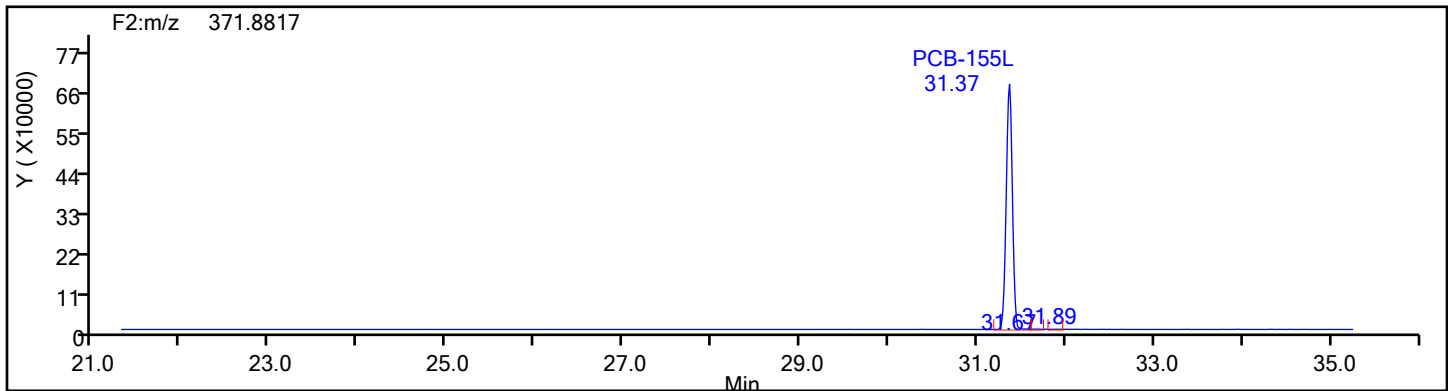
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

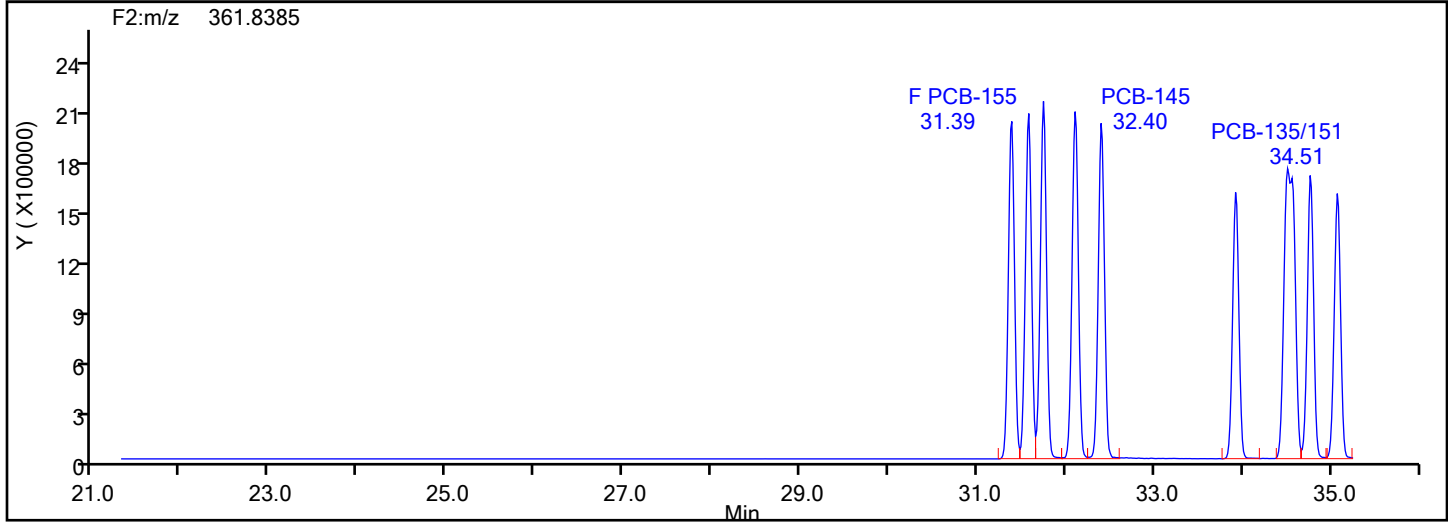
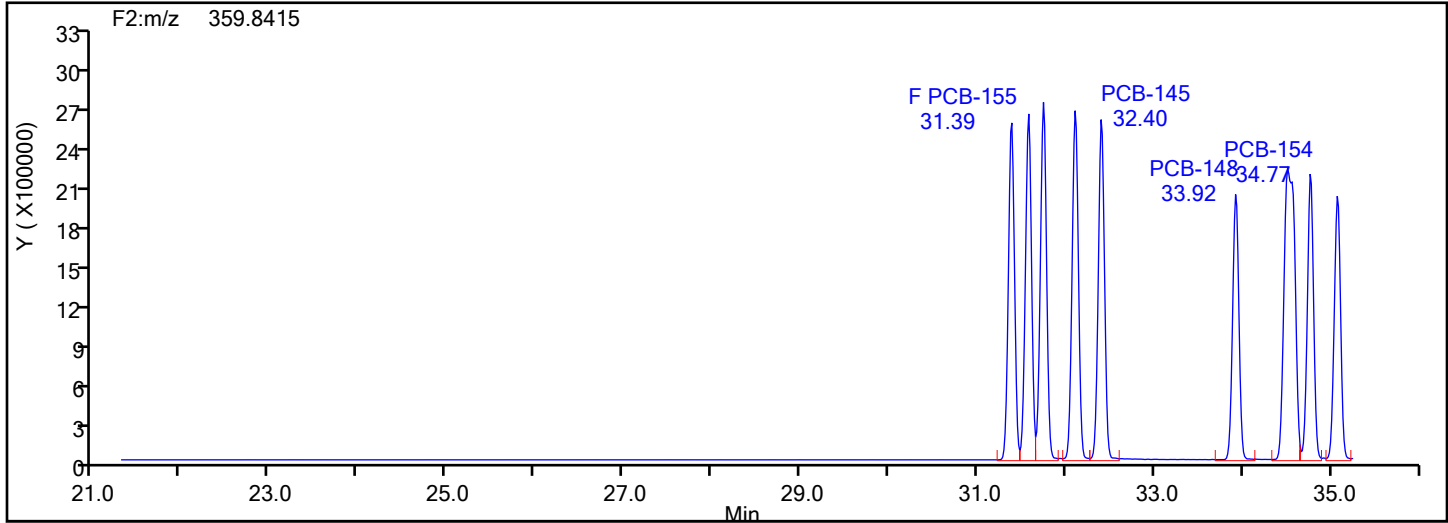


HxPCB F2 Standards

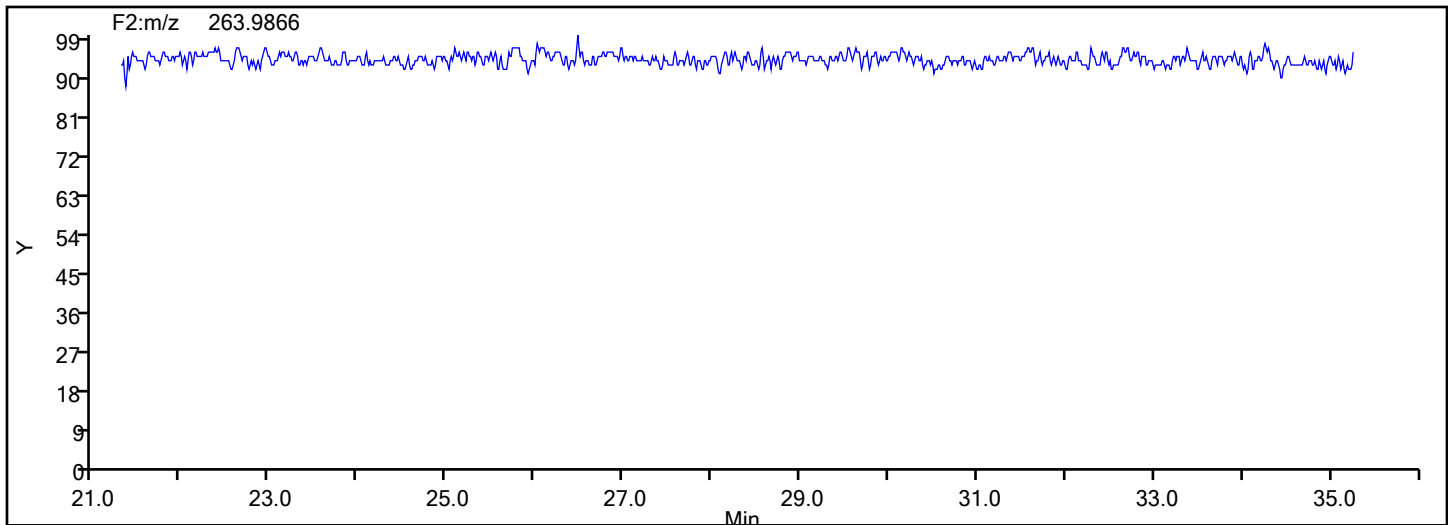


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 5  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

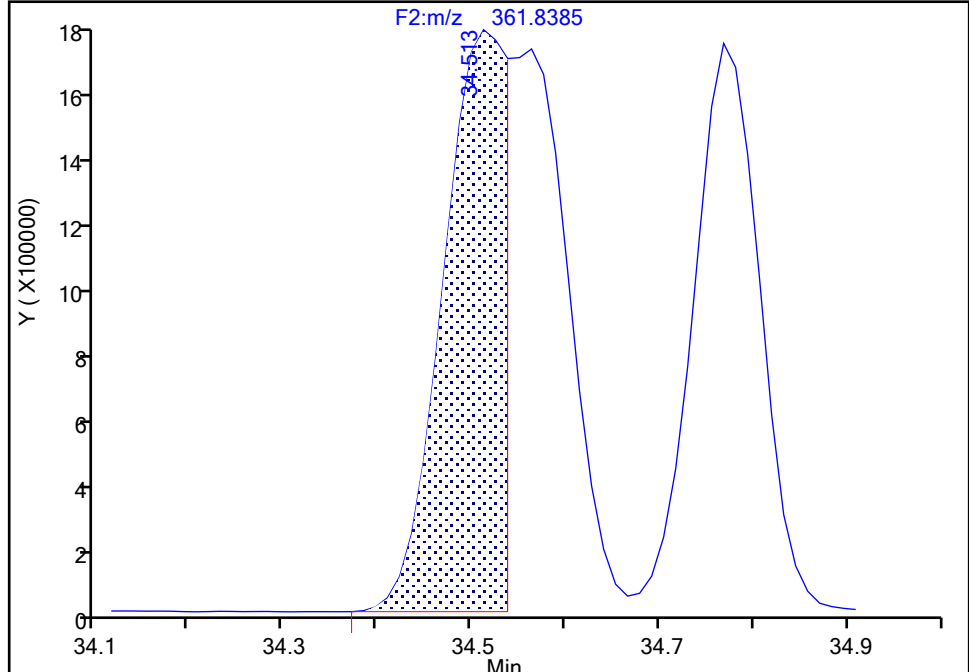
Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 2

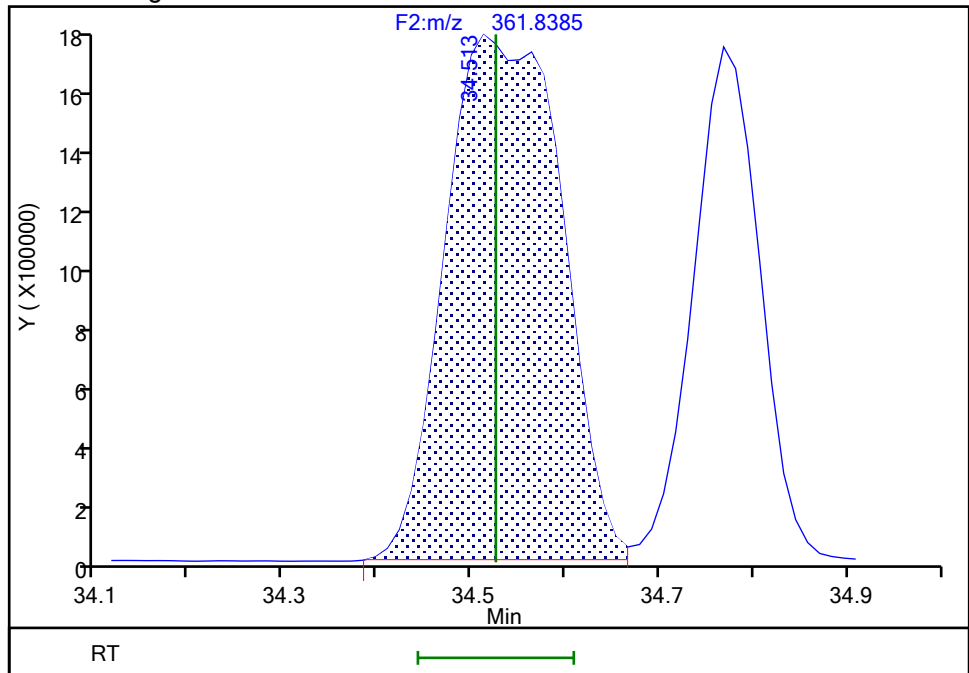
RT: 34.51  
Area: 7808092  
Amount: 713.7008  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.51  
Area: 15053955  
Amount: 798.2296  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 02:59:38 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

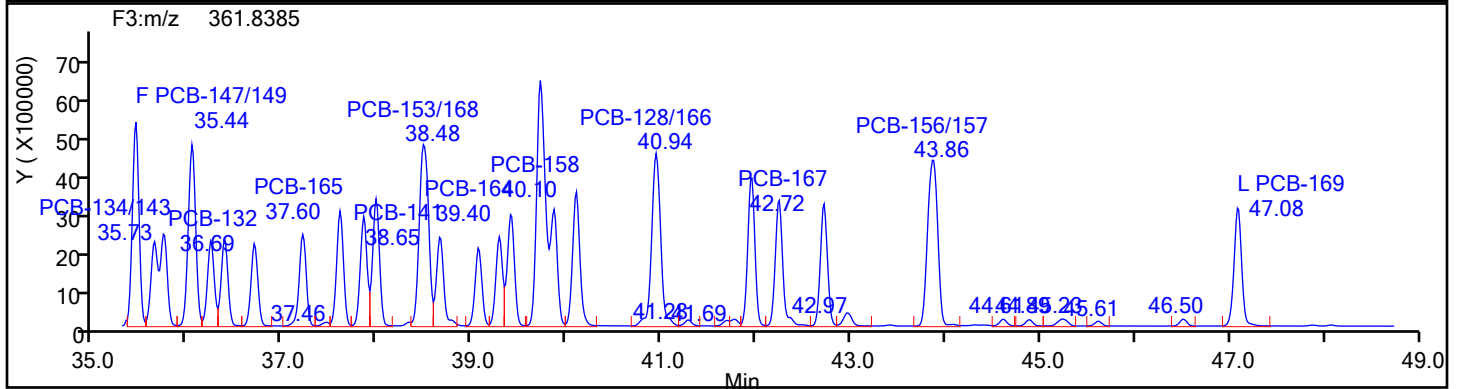
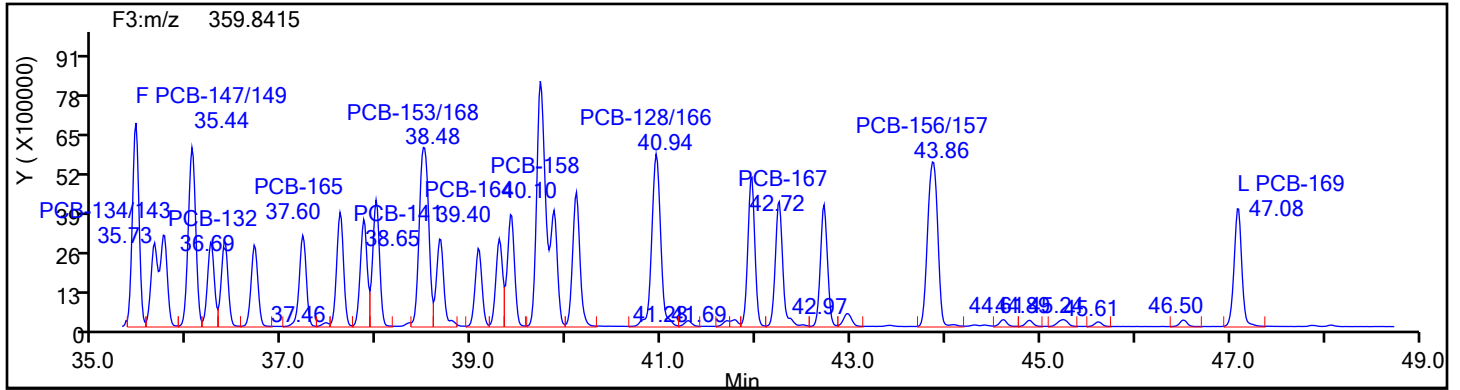
Worklist#: 87130

Sample Line#: 5

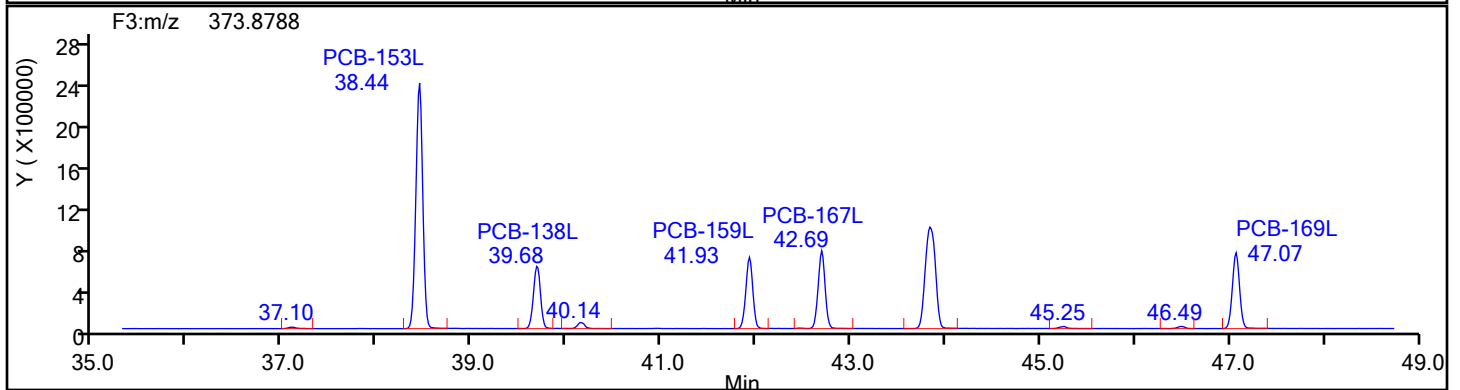
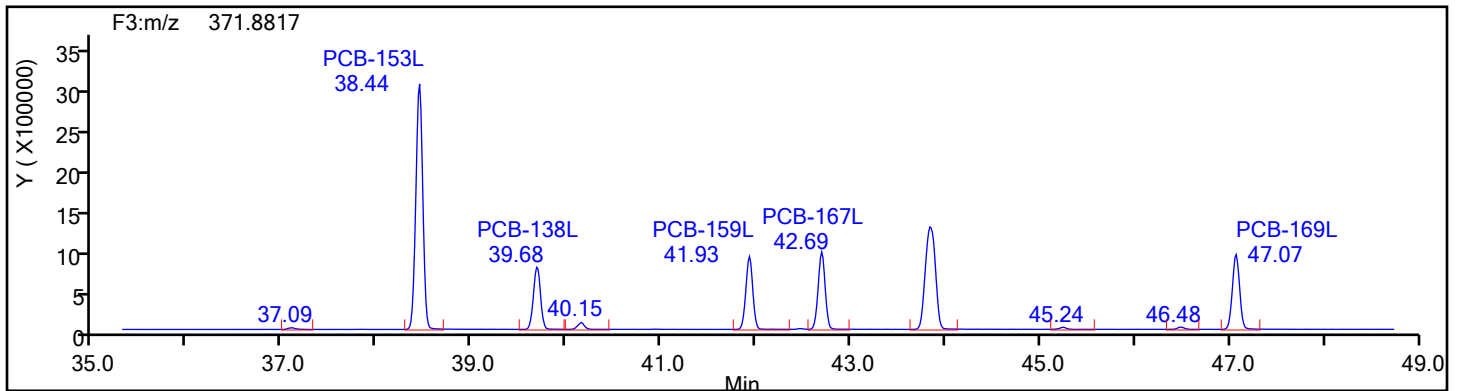
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

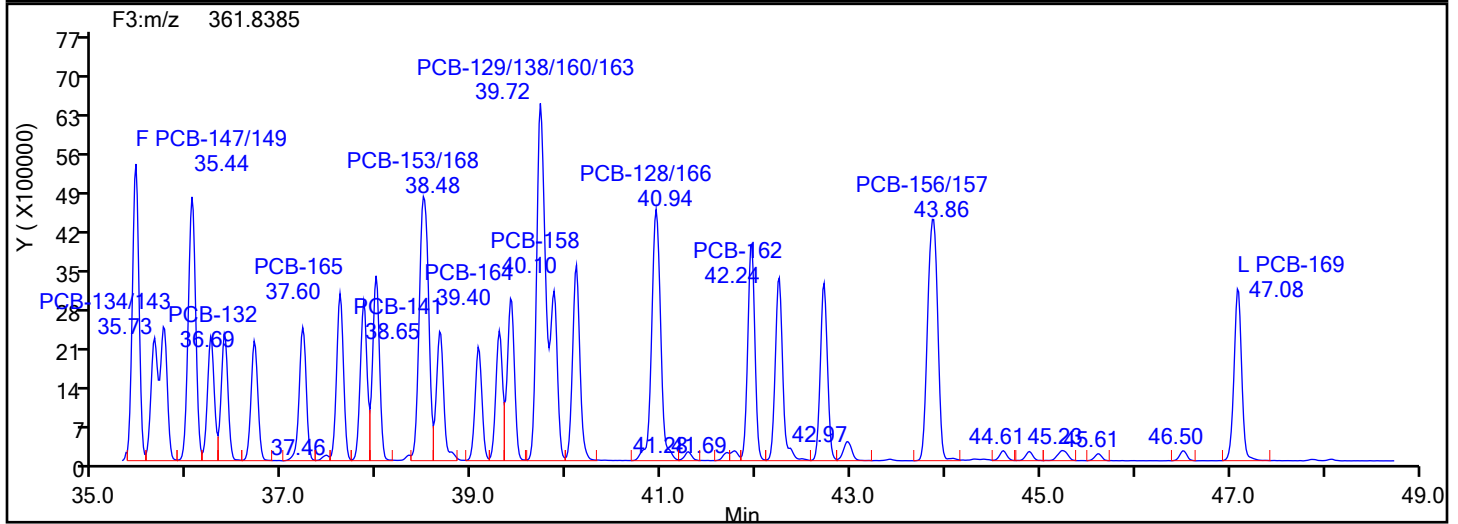
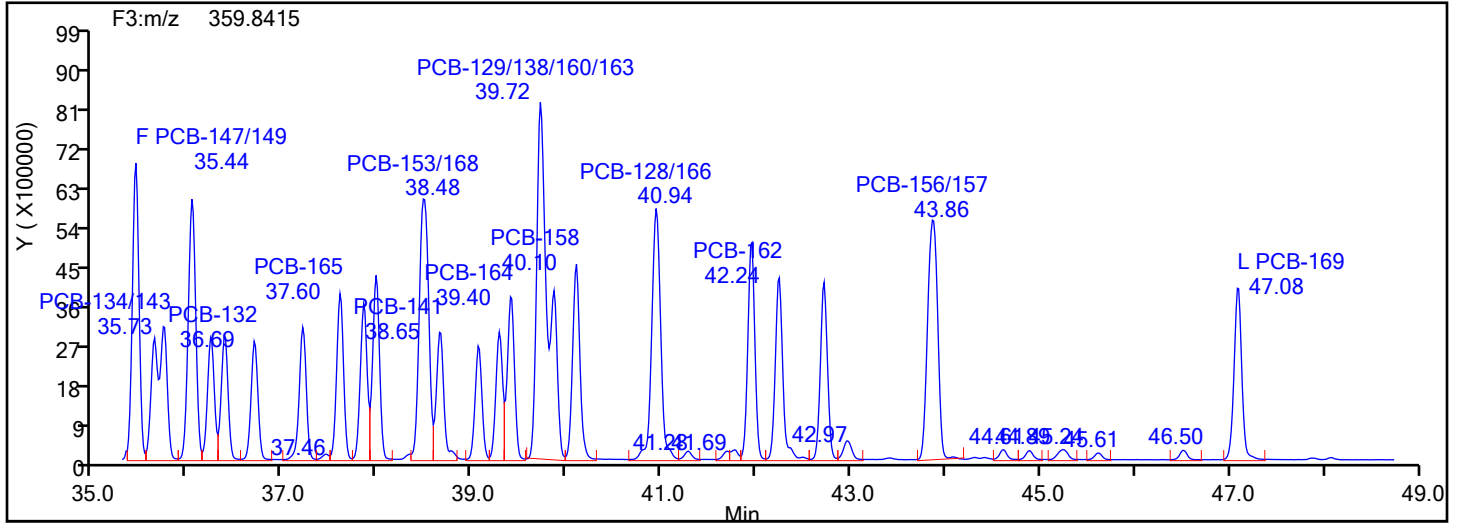
Worklist#: 87130

Sample Line#: 5

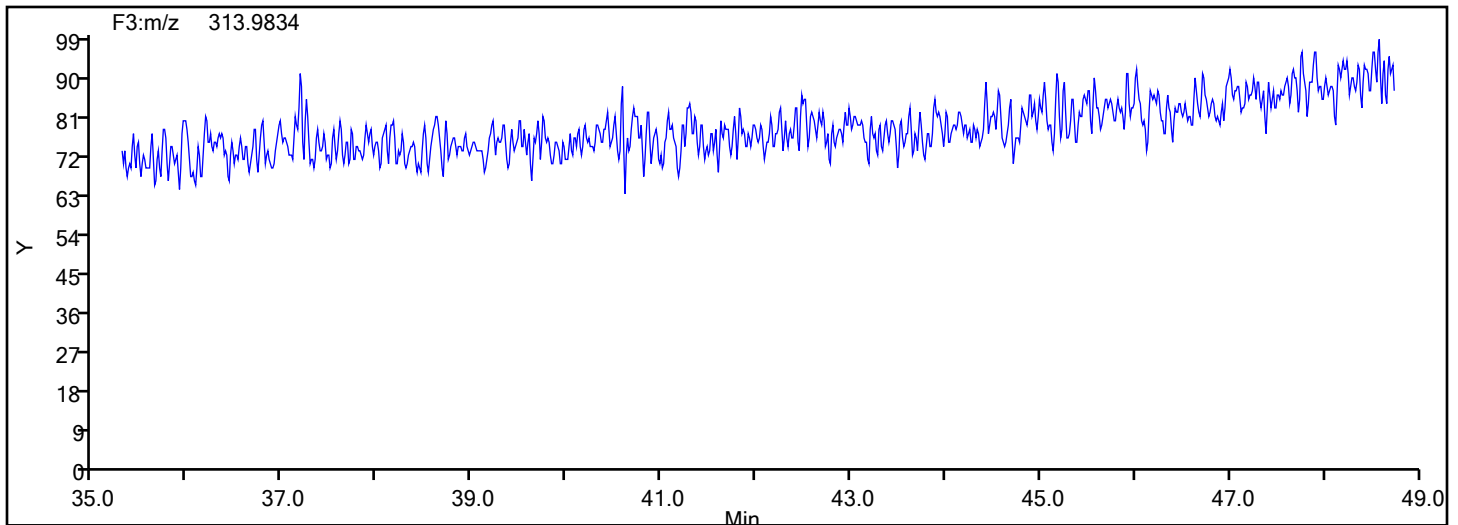
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

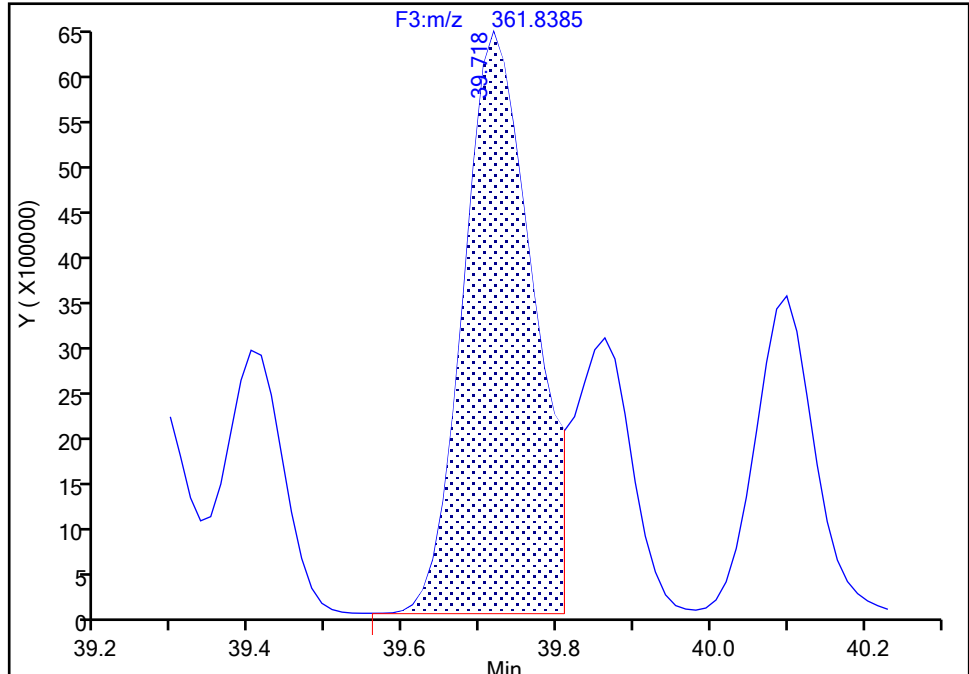
Detector F3(35.64 :49.10 )

**PCB-129/138/160/163, CAS: STL02296**

Signal: 2

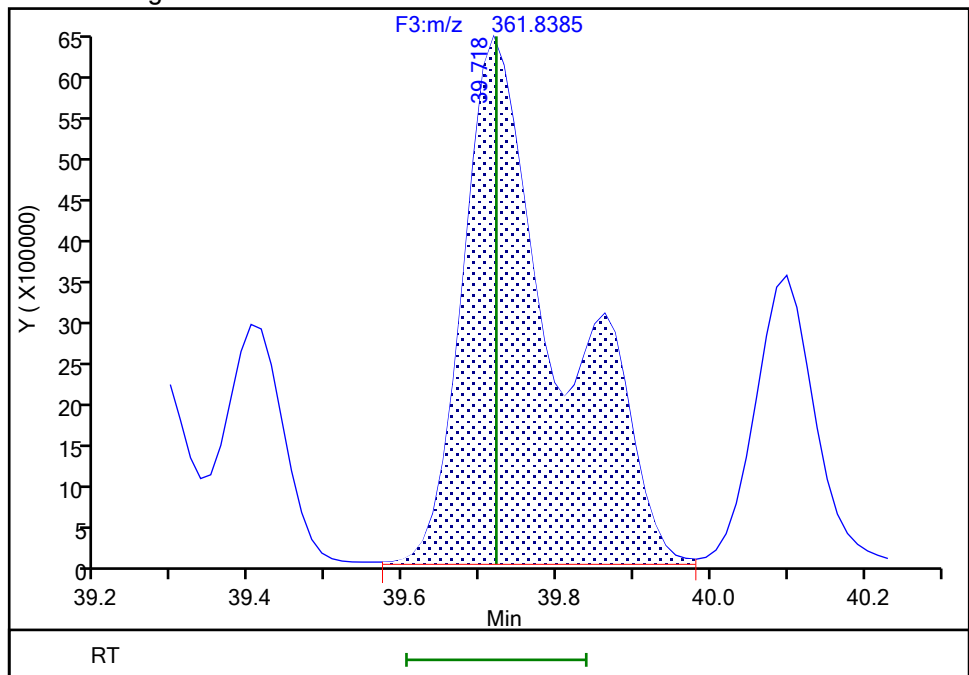
RT: 39.72  
Area: 40418410  
Amount: 1242.9142  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.72  
Area: 56283132  
Amount: 1566.2464  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:00:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

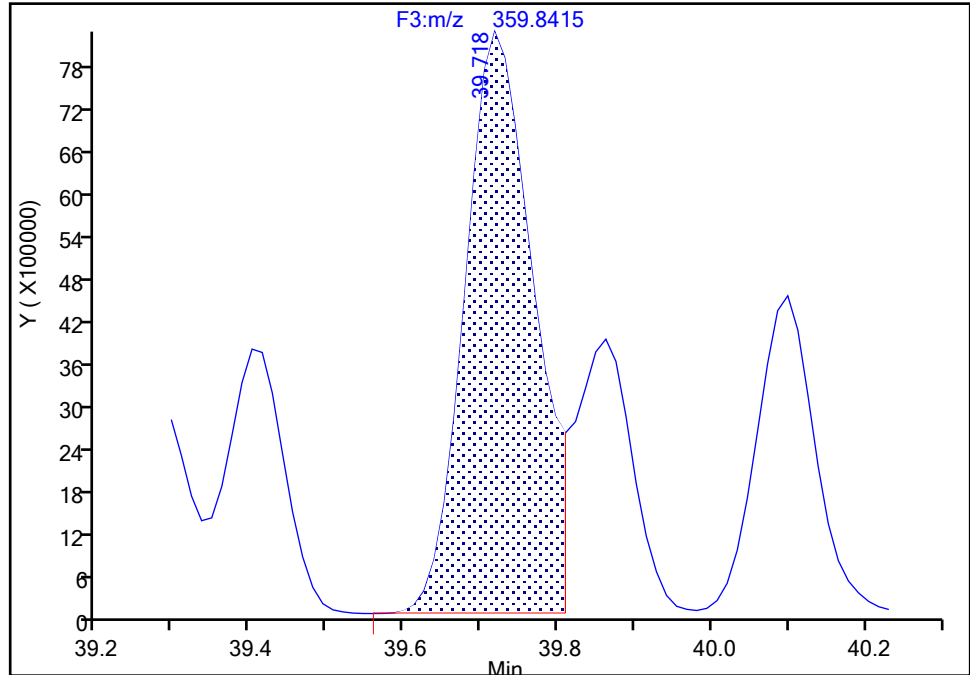
Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

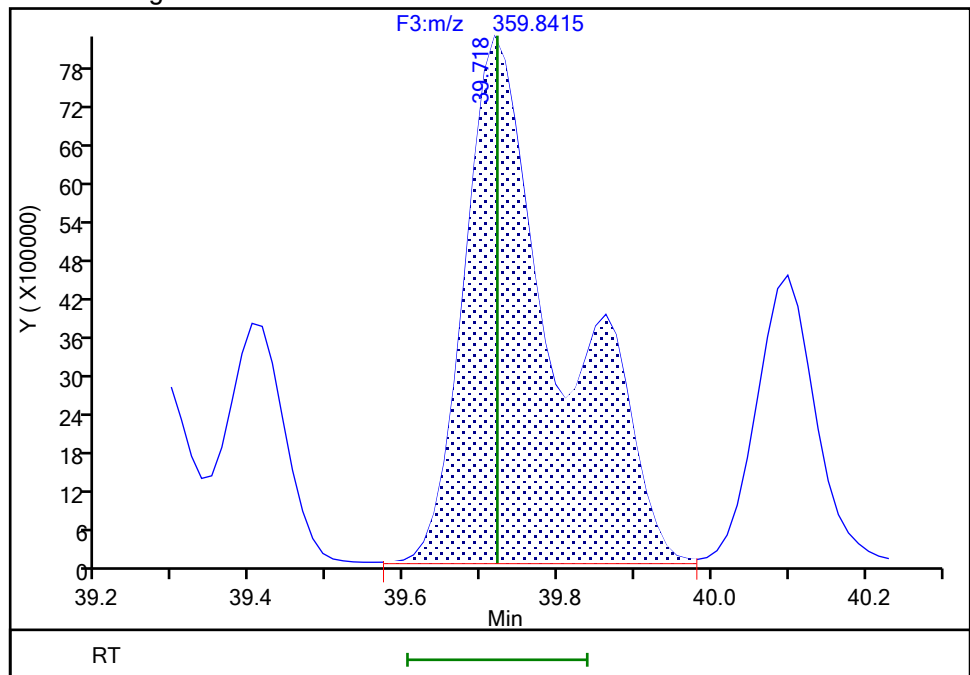
RT: 39.72  
Area: 51062148  
Amount: 1242.9142  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.72  
Area: 70852247  
Amount: 1566.2464  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:00:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04382

9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

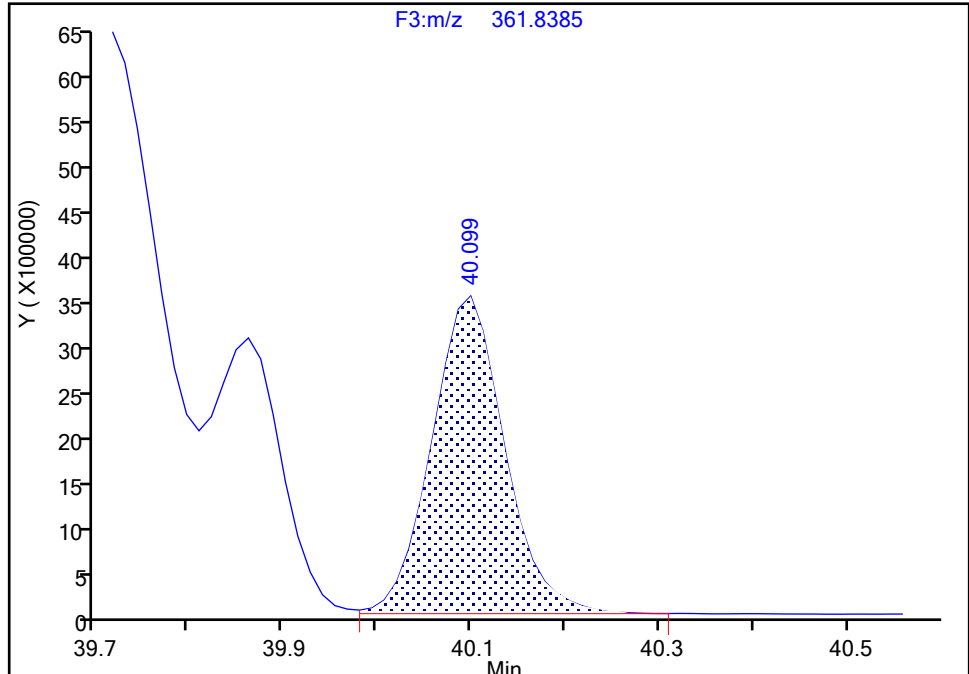
Detector F3(35.64 :49.10 )

**PCB-158, CAS: 74472-42-7**

Signal: 2

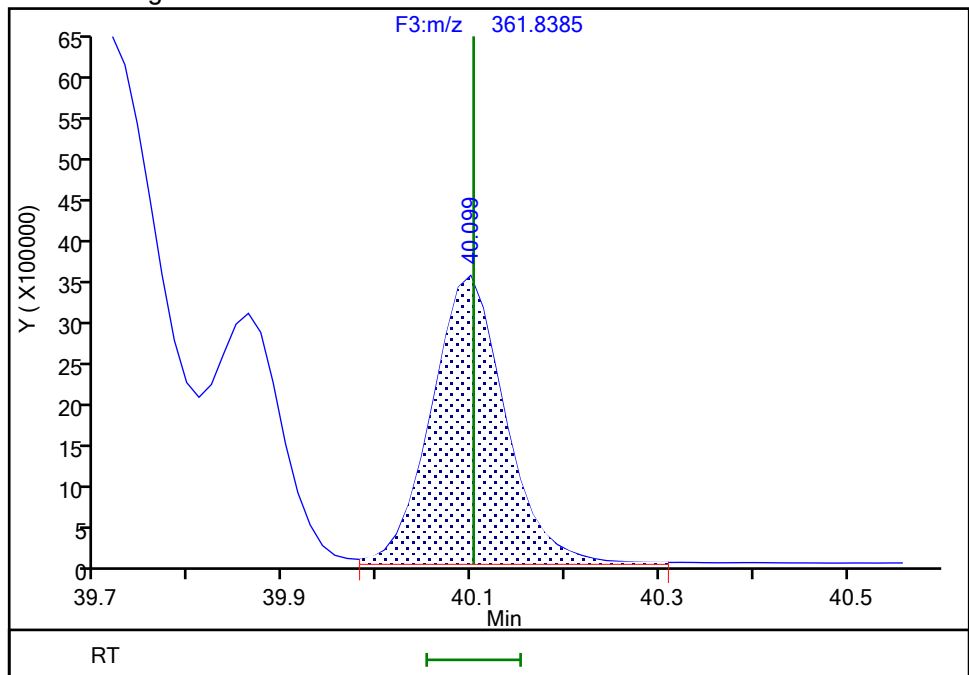
RT: 40.10  
Area: 19147696  
Amount: 385.2197  
Amount Units: pg/ul

## Processing Integration Results



RT: 40.10  
Area: 19147696  
Amount: 386.1452  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

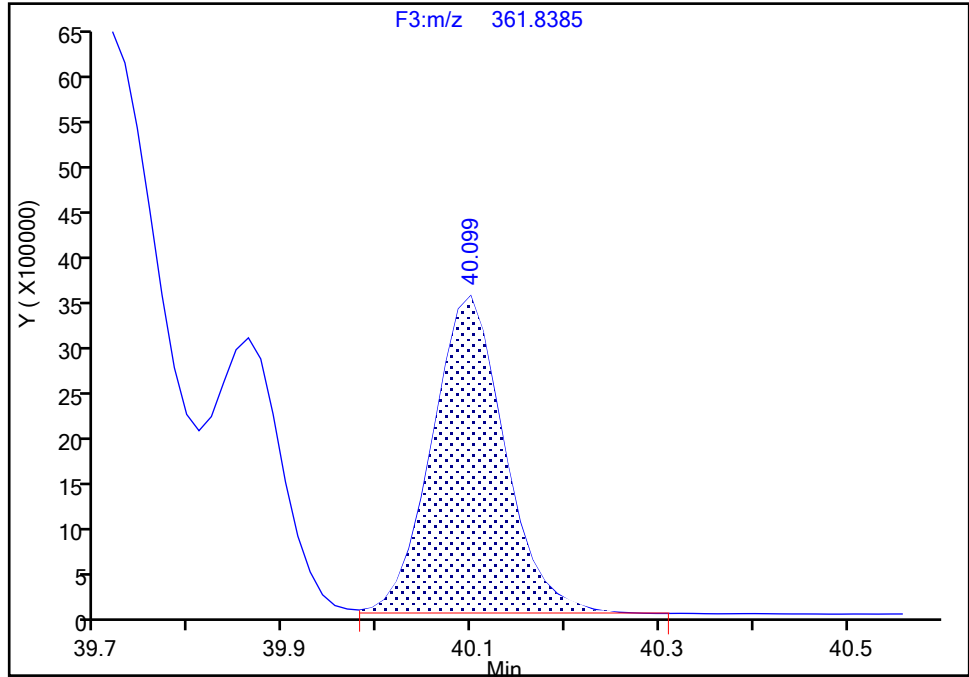
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D  
Lims ID: IC L5  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-158, CAS: 74472-42-7**

Signal: 3

RT: 40.10  
Area: 43296990  
Amount: 385.2197  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 40.10  
Area: 43420955  
Amount: 386.1452  
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:01:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

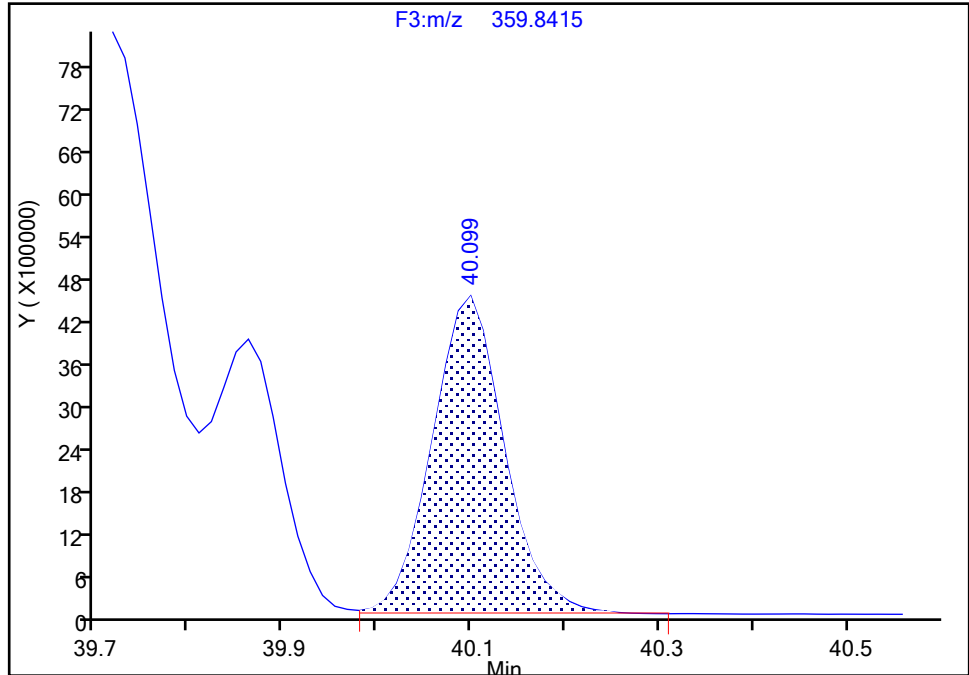
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D  
Lims ID: IC L5  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-158, CAS: 74472-42-7

Signal: 1

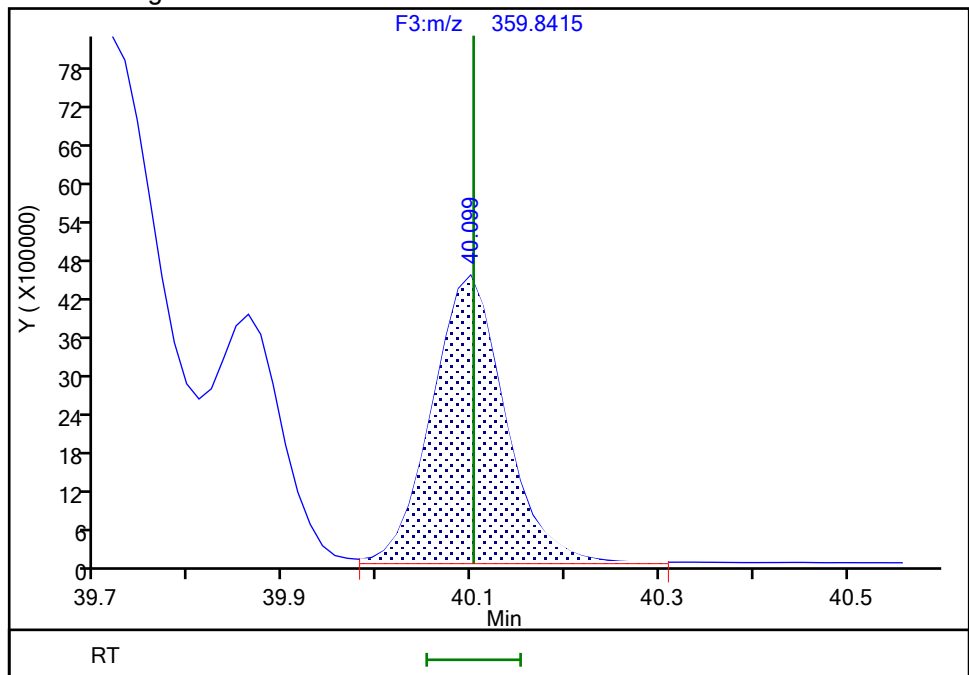
RT: 40.10  
Area: 24149294  
Amount: 385.2197  
Amount Units: pg/ul

## Processing Integration Results



RT: 40.10  
Area: 24273259  
Amount: 386.1452  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:11 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

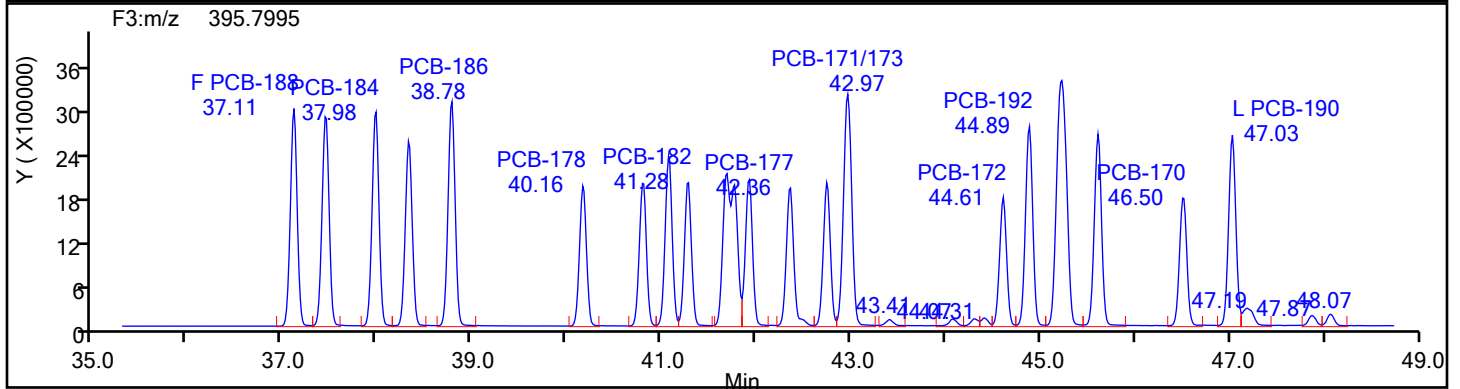
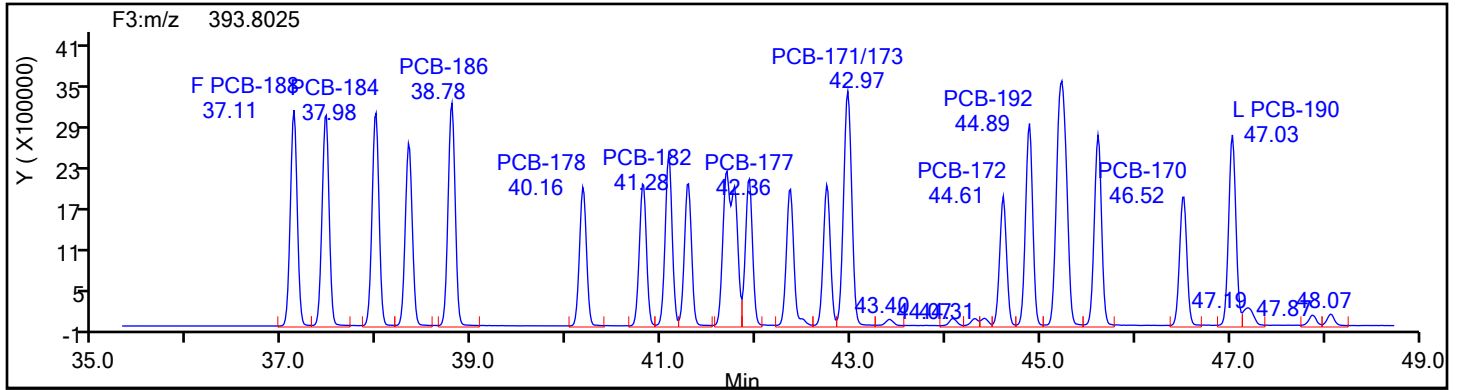
Worklist#: 87130

Sample Line#: 5

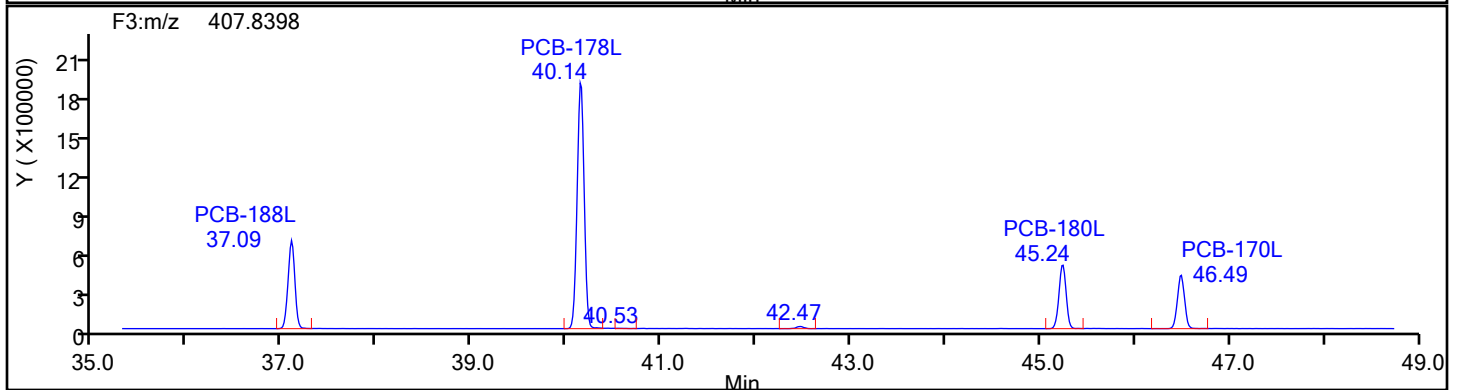
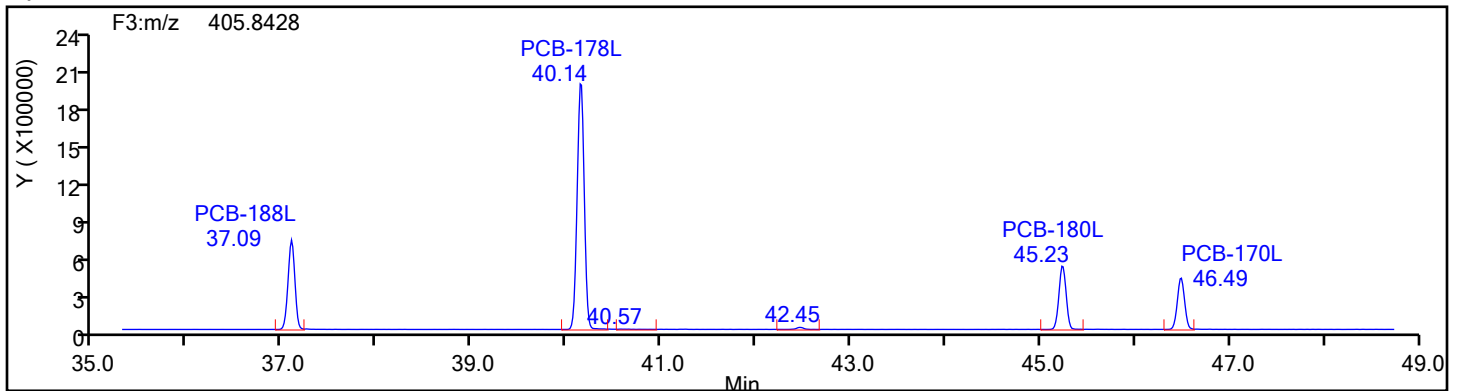
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

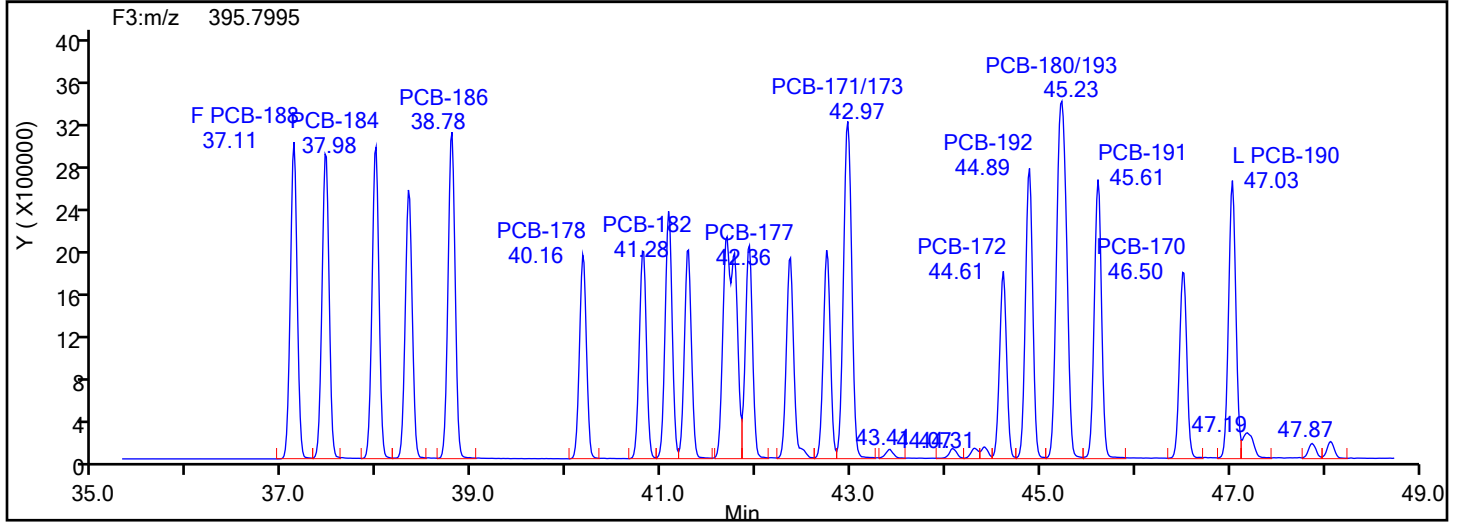
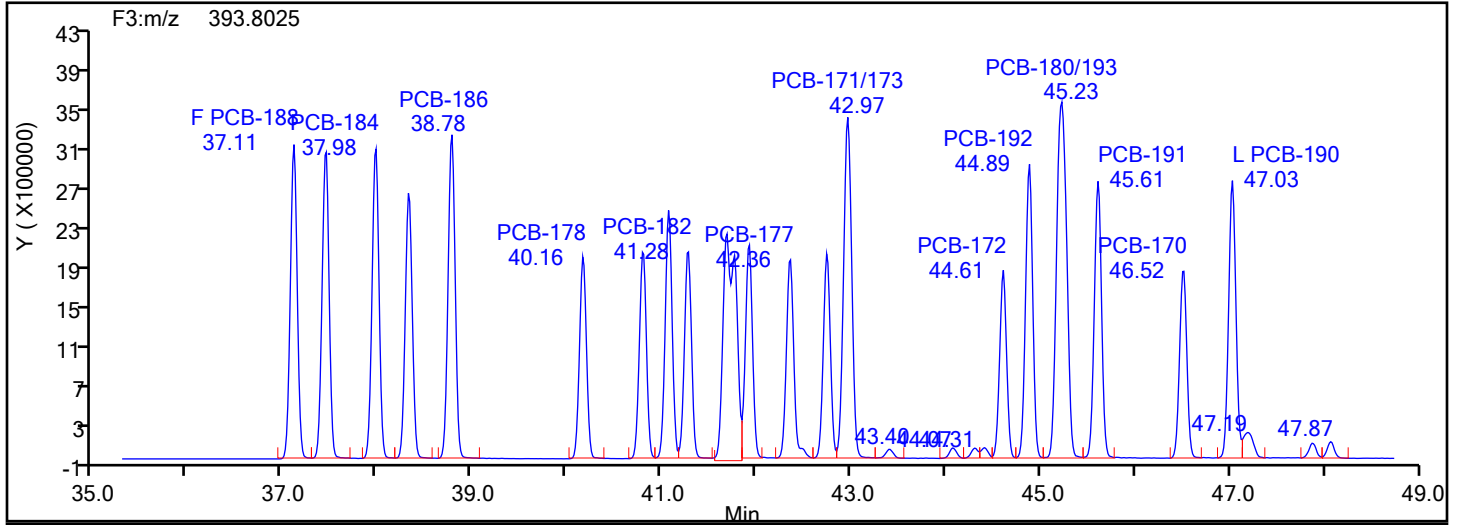
Worklist#: 87130

Sample Line#: 5

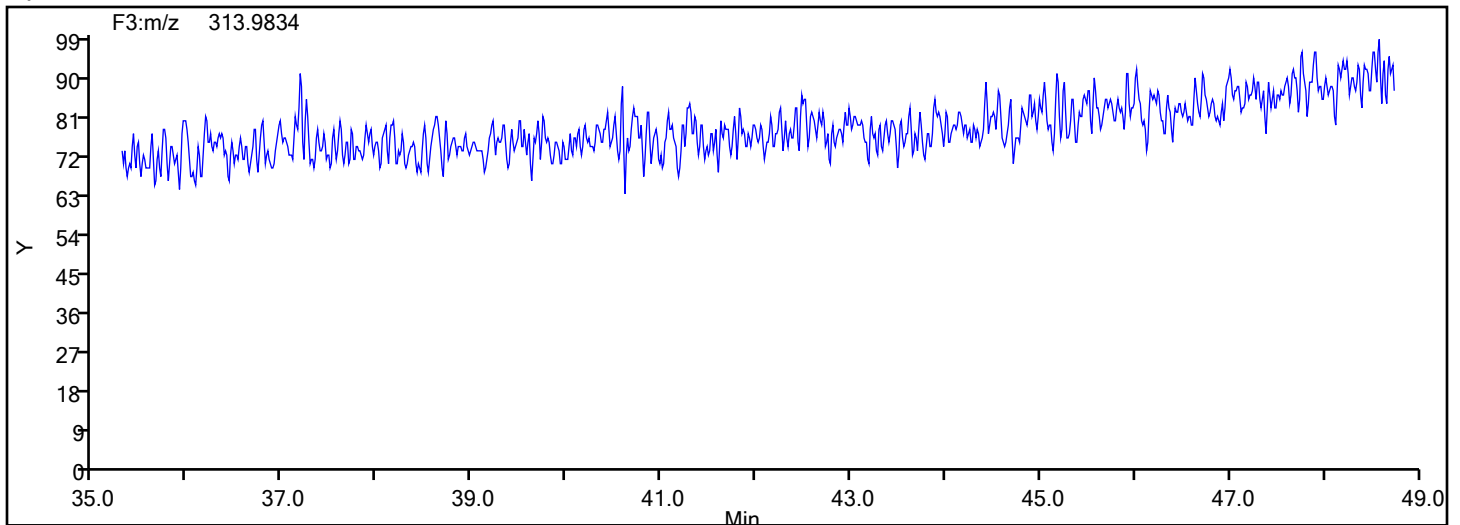
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

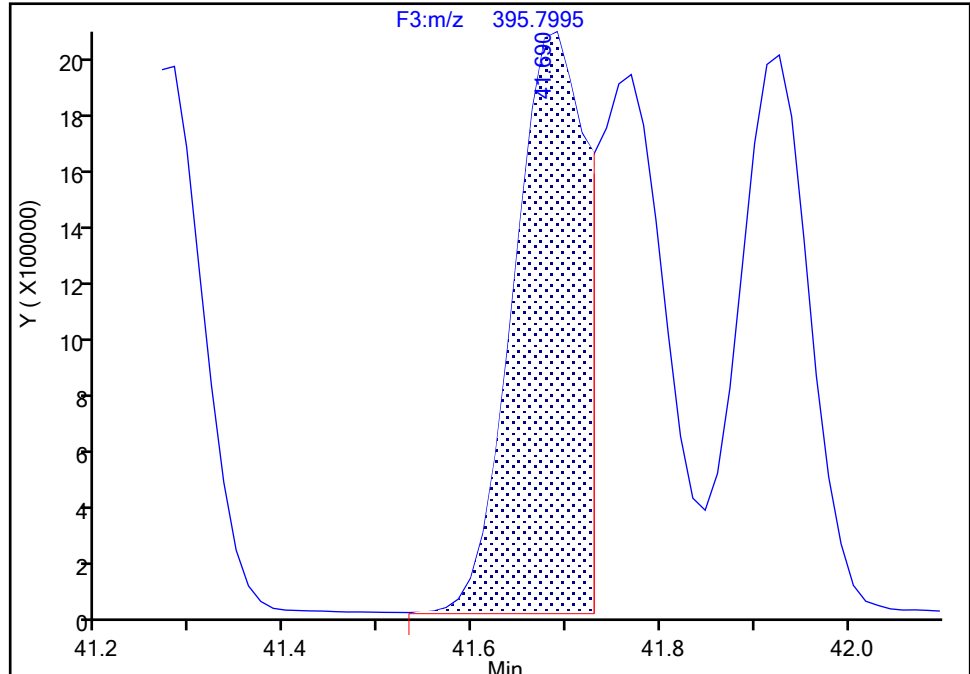
Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 2

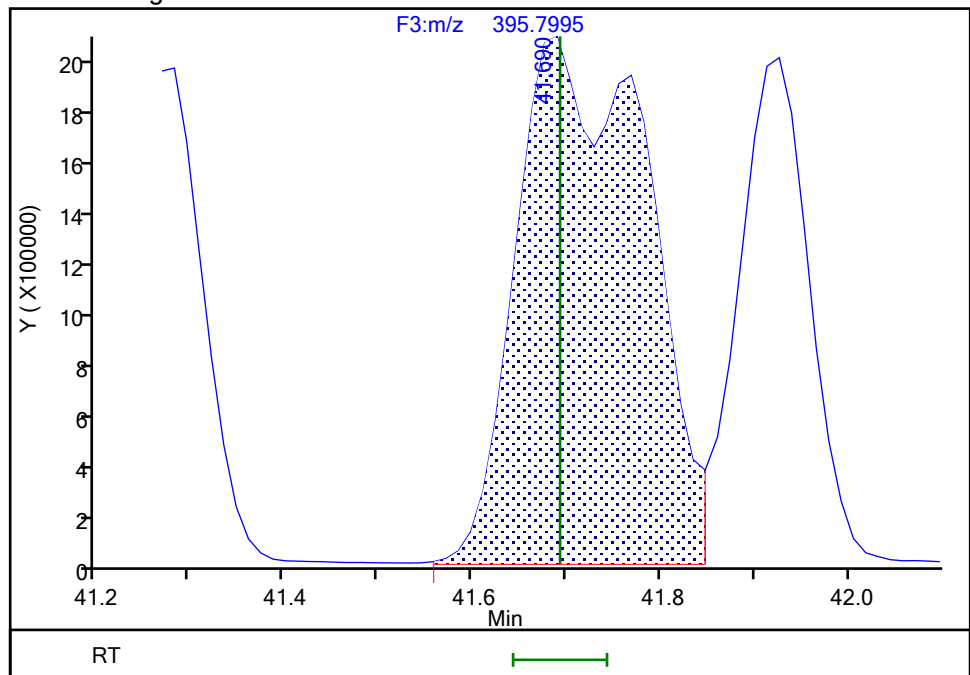
RT: 41.69  
Area: 10997351  
Amount: 473.7894  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.69  
Area: 20232904  
Amount: 747.8180  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

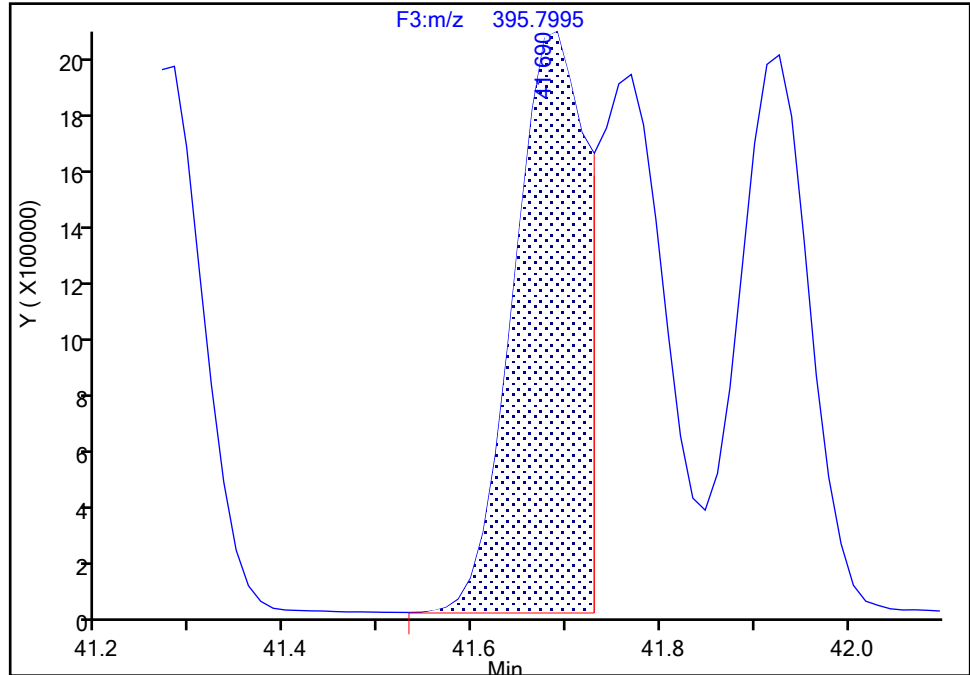
Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 2

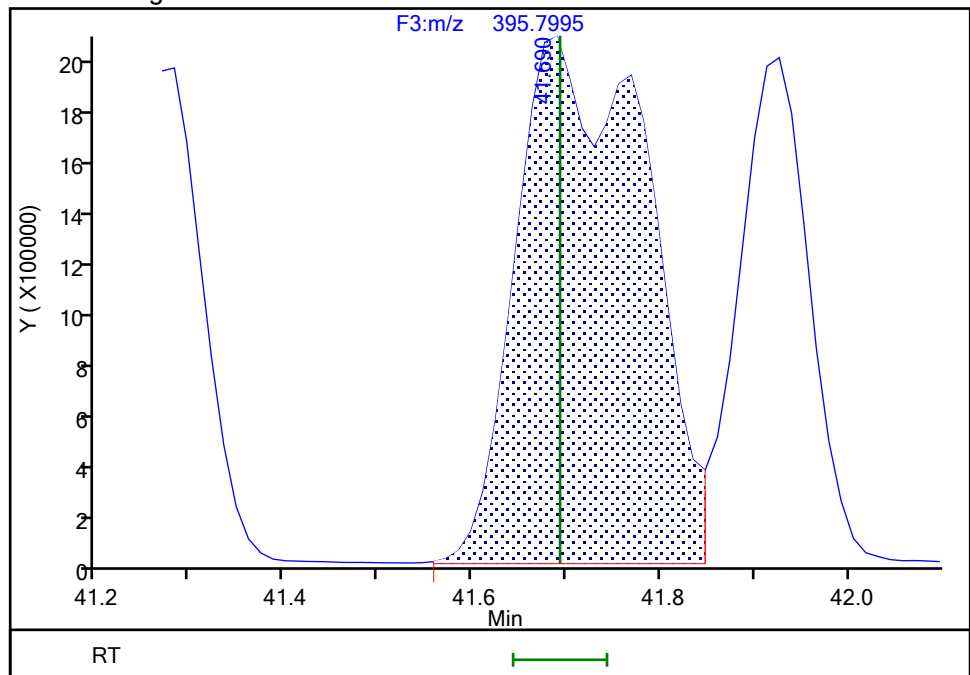
RT: 41.69  
Area: 10997351  
Amount: 473.7894  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.69  
Area: 20232904  
Amount: 747.8180  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:55 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

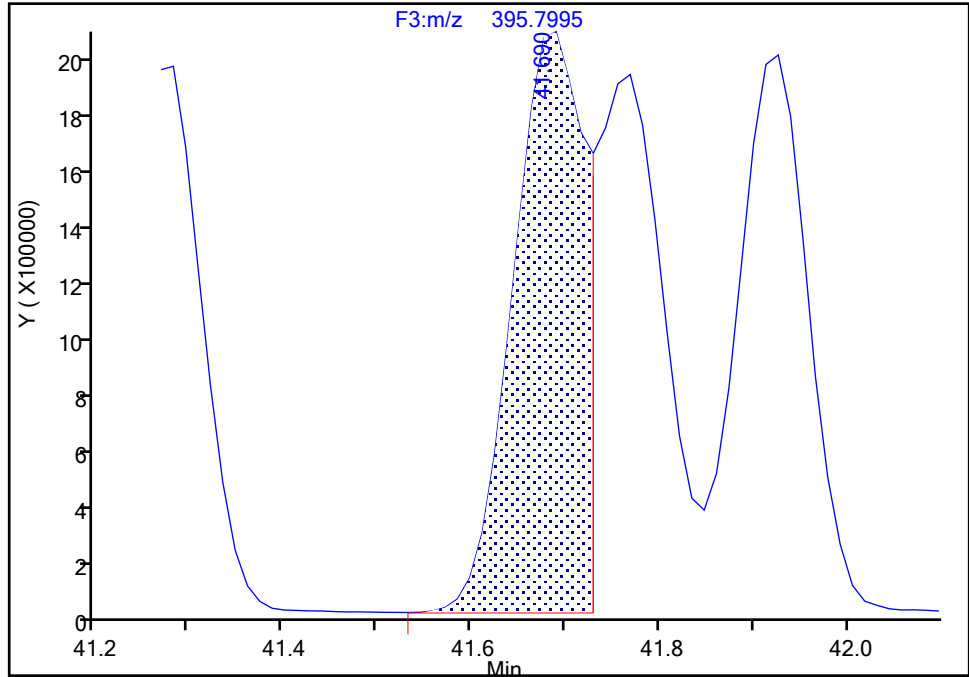
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Instrument ID: D2D  
Lims ID: IC L5  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 3

RT: 41.69  
Area: 22664276  
Amount: 473.7894  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 41.69  
Area: 41853835  
Amount: 747.8180  
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:01:55 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Instrument ID: D2D

Lims ID: IC L5

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

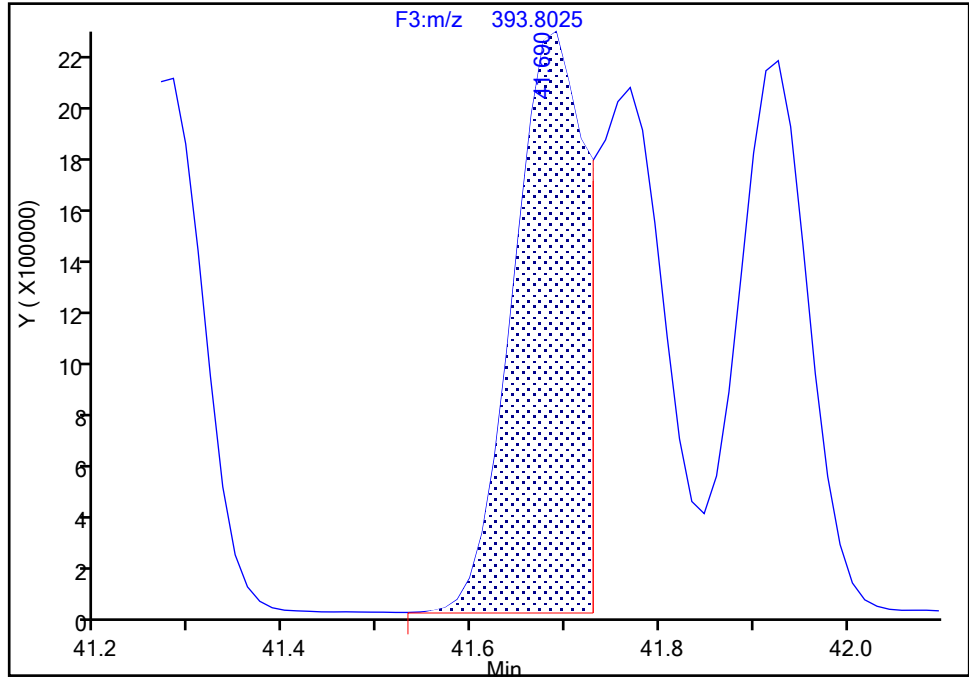
Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 1

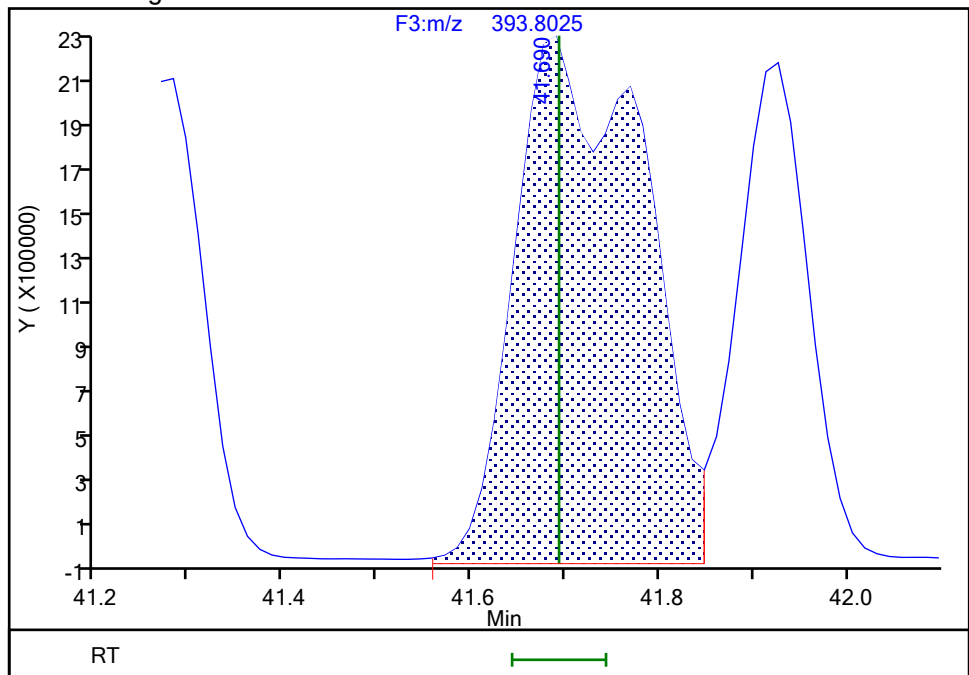
RT: 41.69  
Area: 11666925  
Amount: 473.7894  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.69  
Area: 21620931  
Amount: 747.8180  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:01:57 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

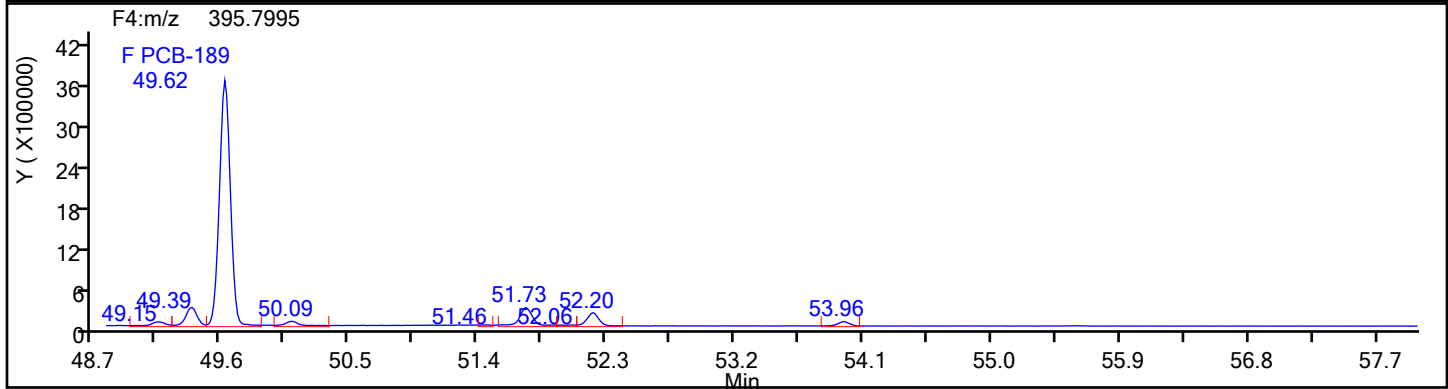
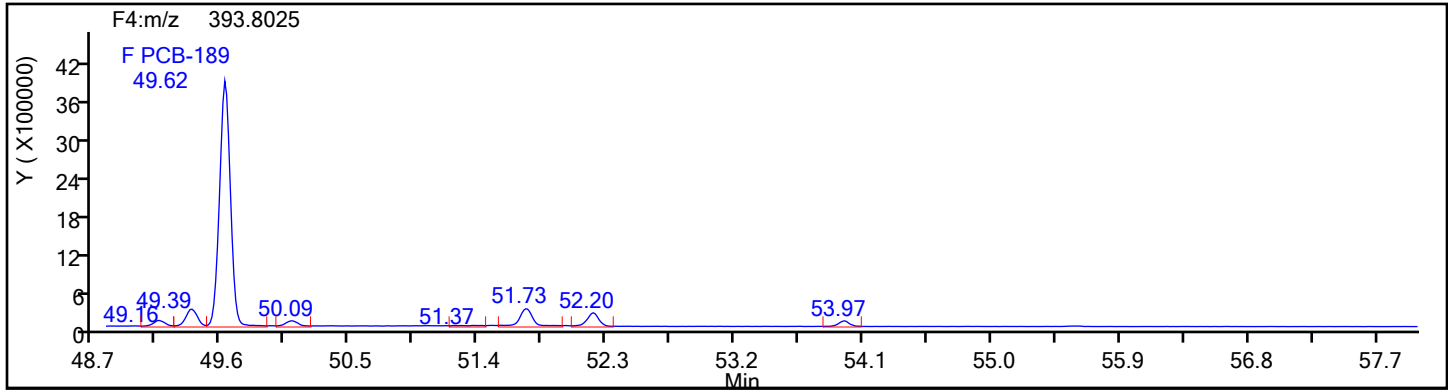
Worklist#: 87130

Sample Line#: 5

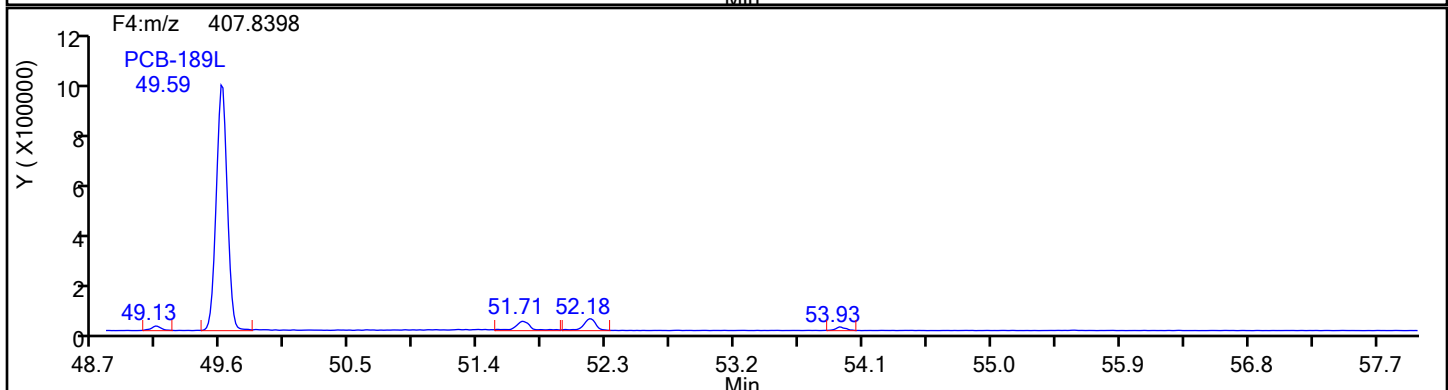
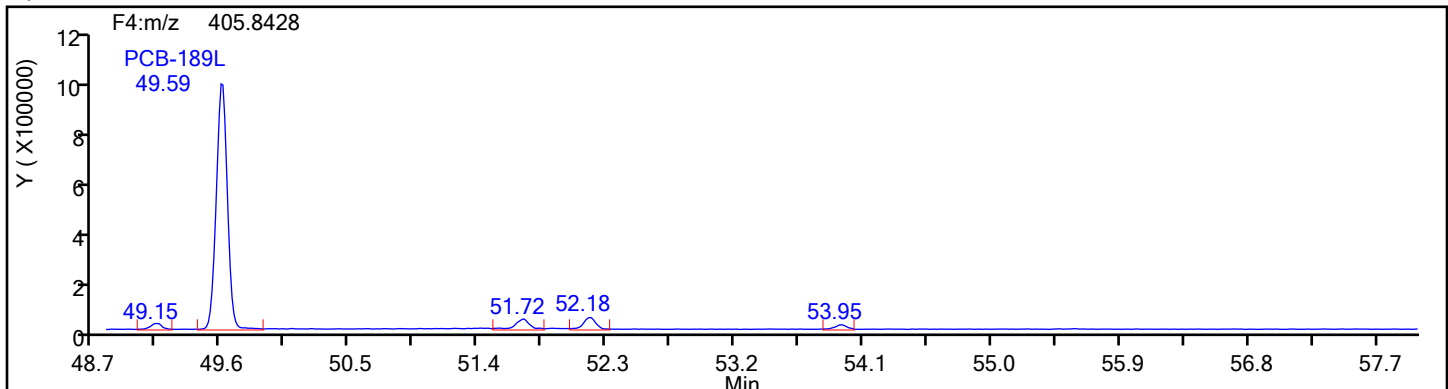
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

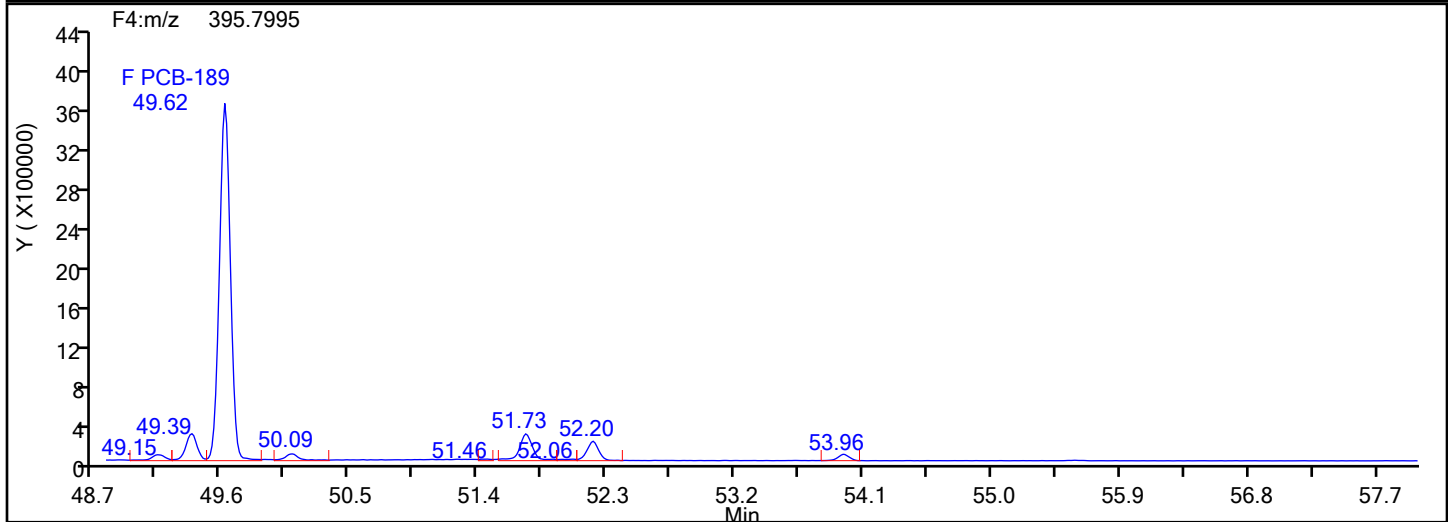
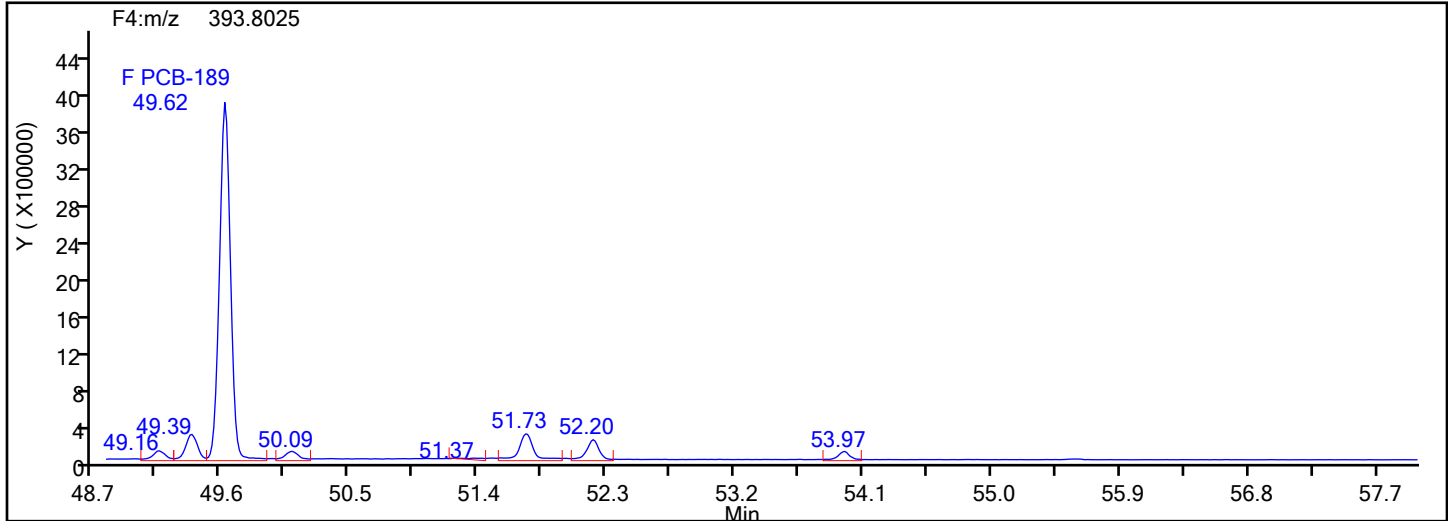
Worklist#: 87130

Sample Line#: 5

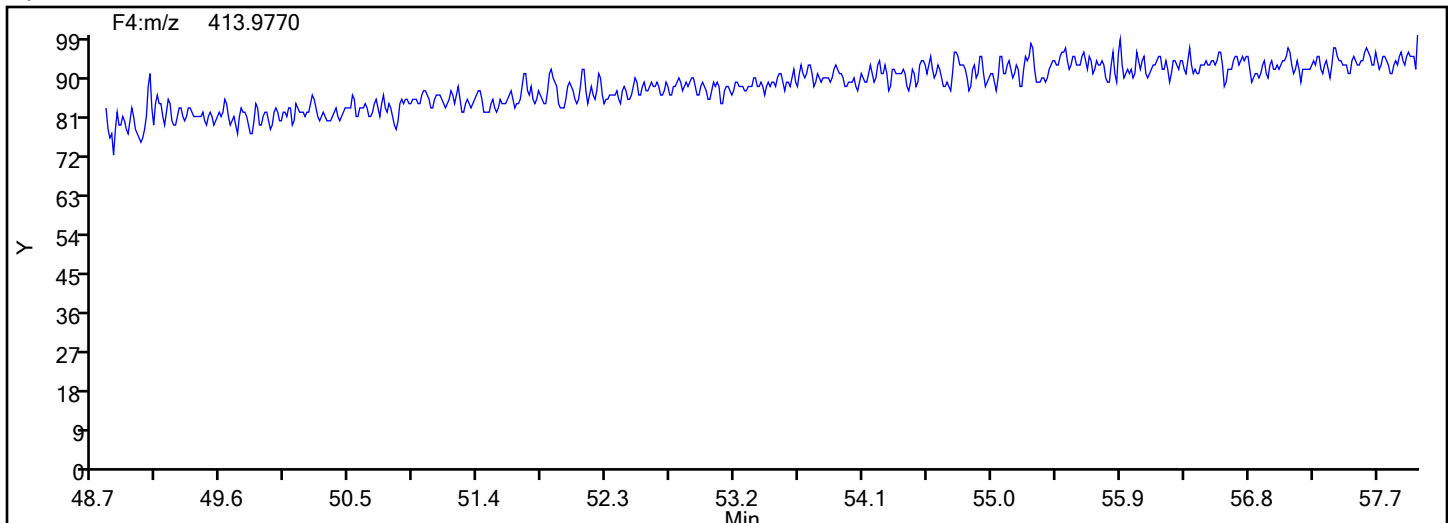
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

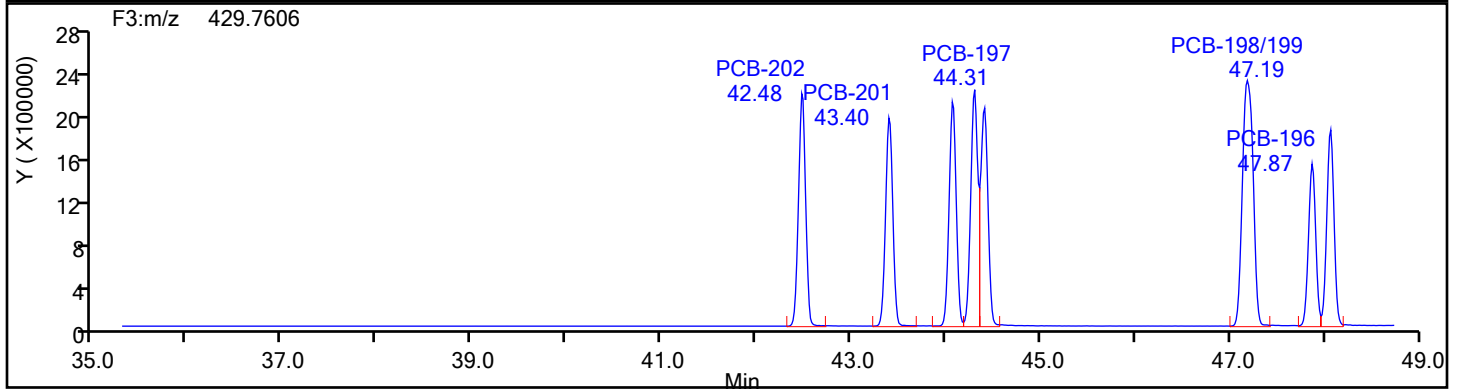
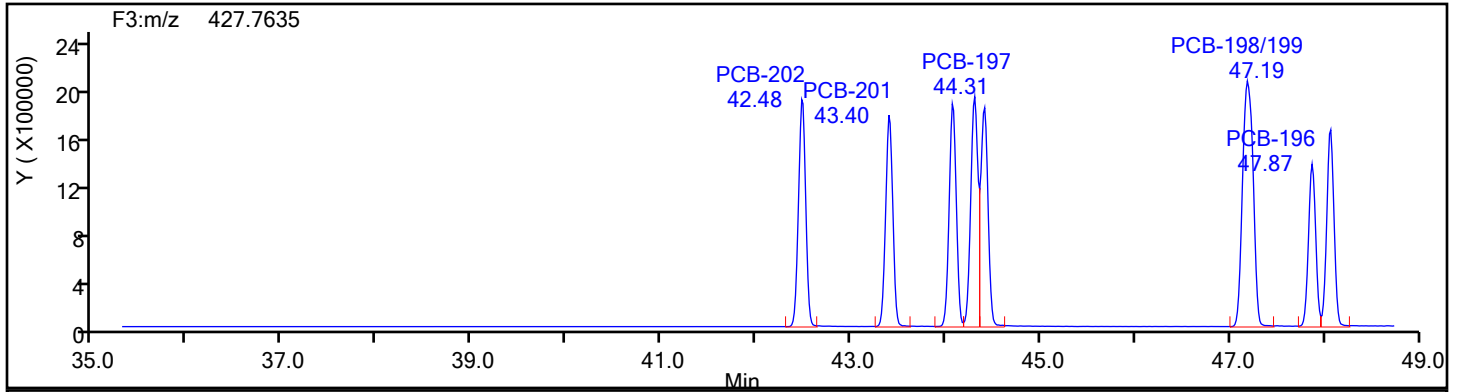
Worklist#: 87130

Sample Line#: 5

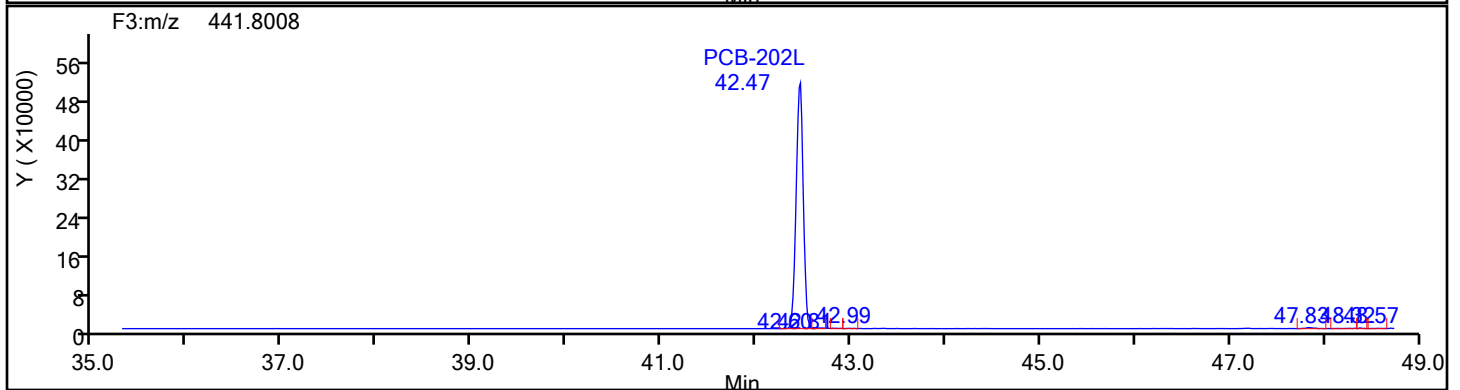
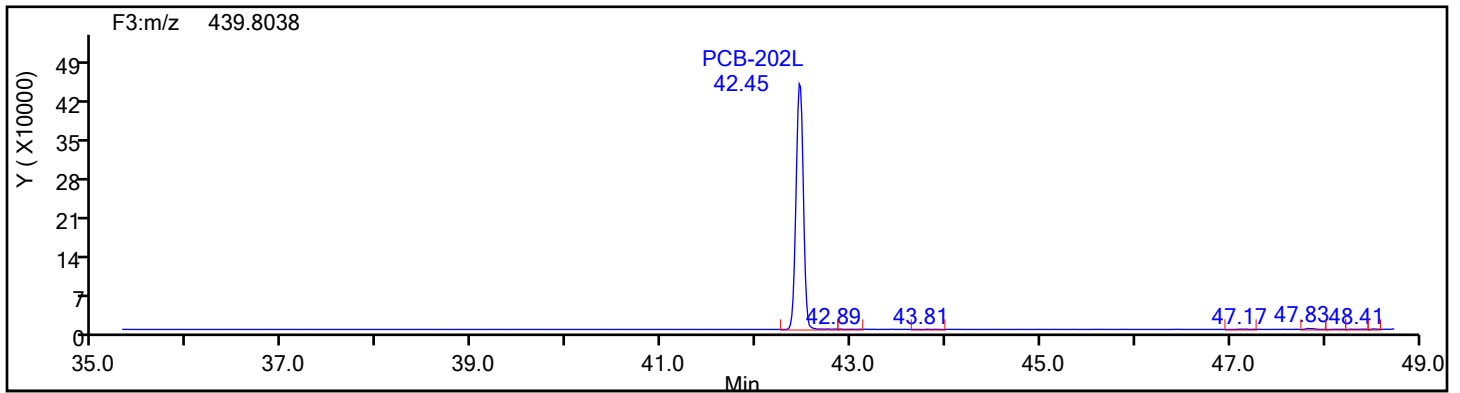
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

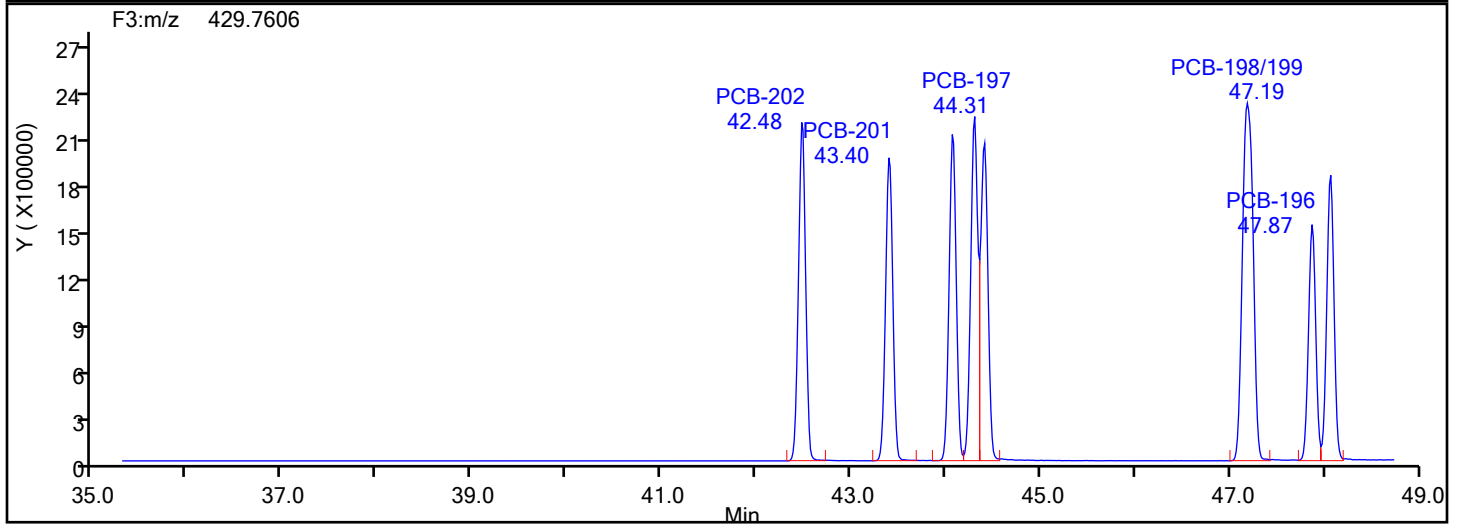
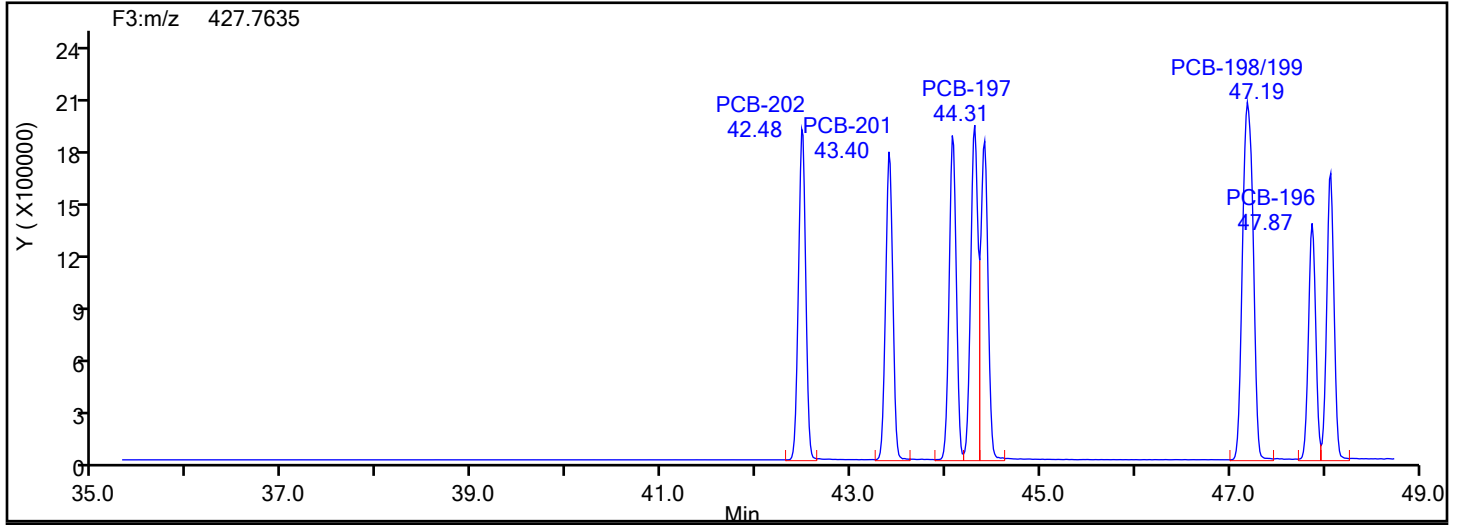


OcPCB F3 Standards

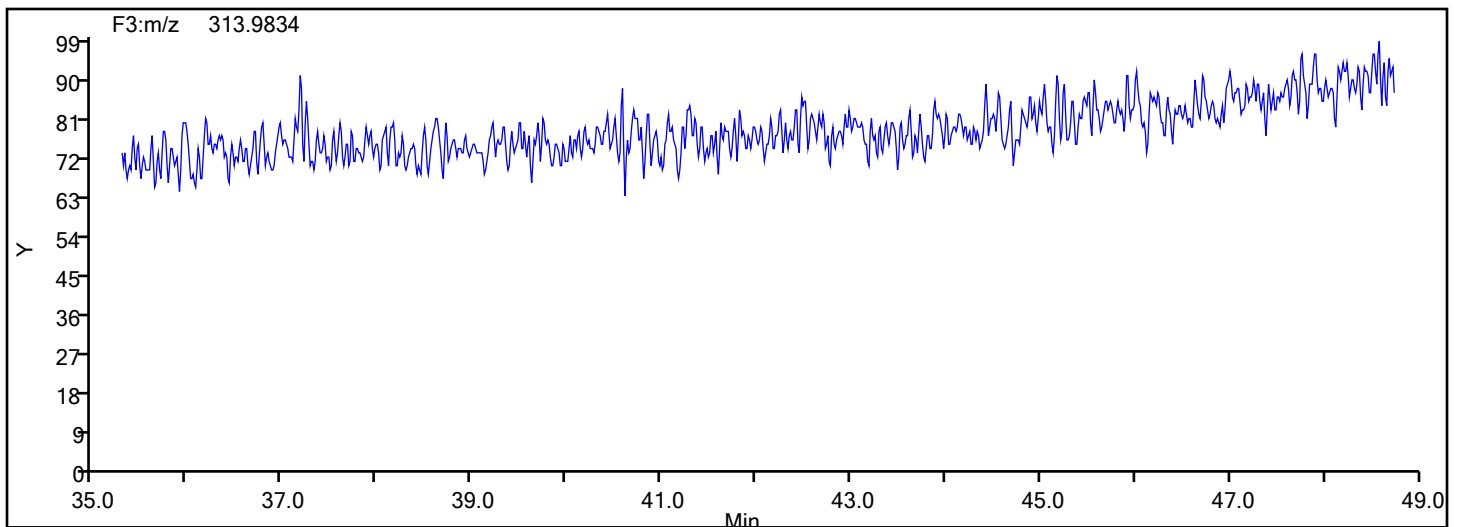


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 5  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3



## OcPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

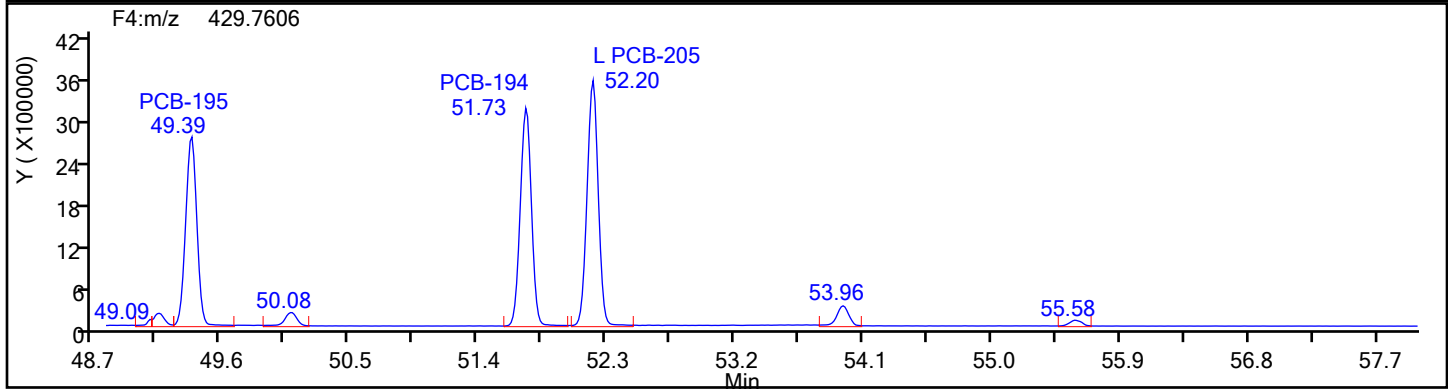
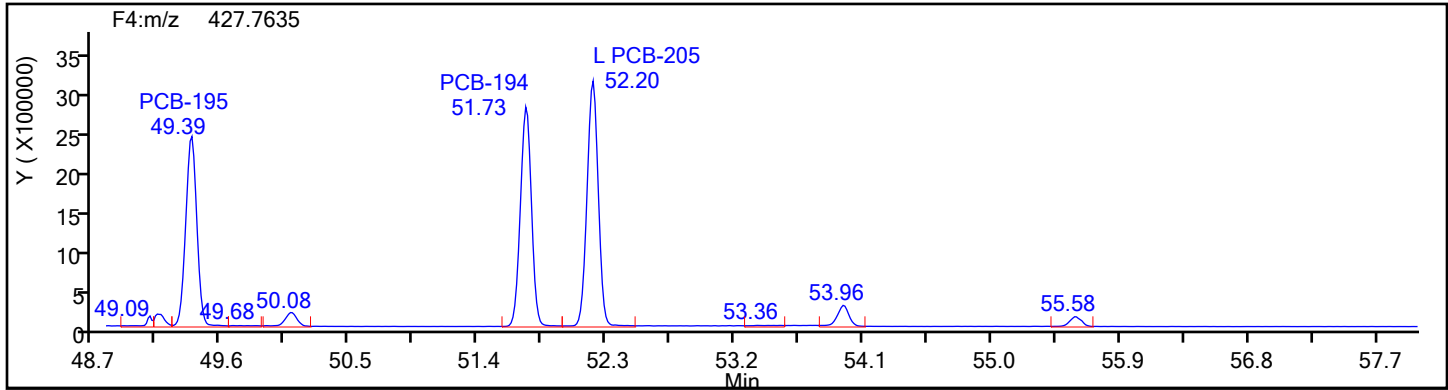
Worklist#: 87130

Sample Line#: 5

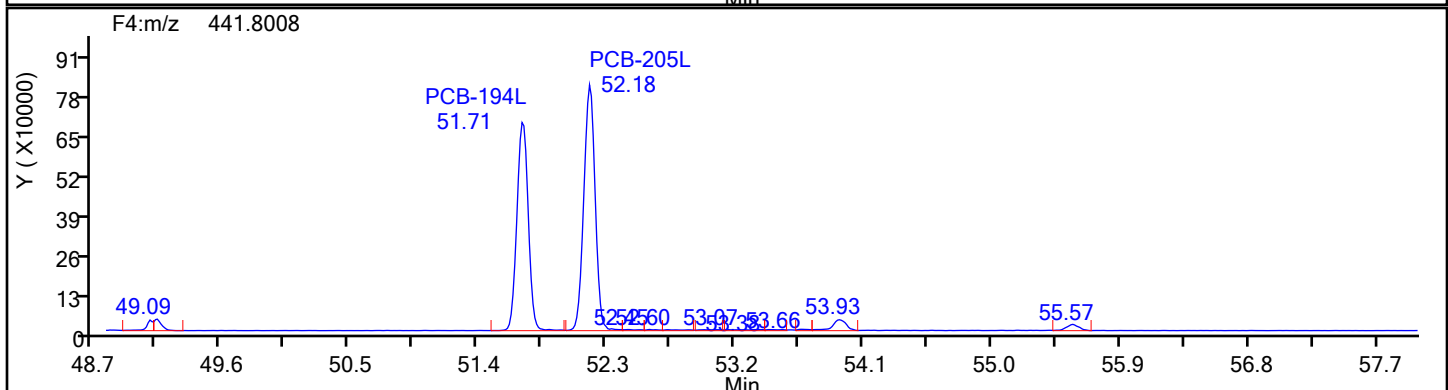
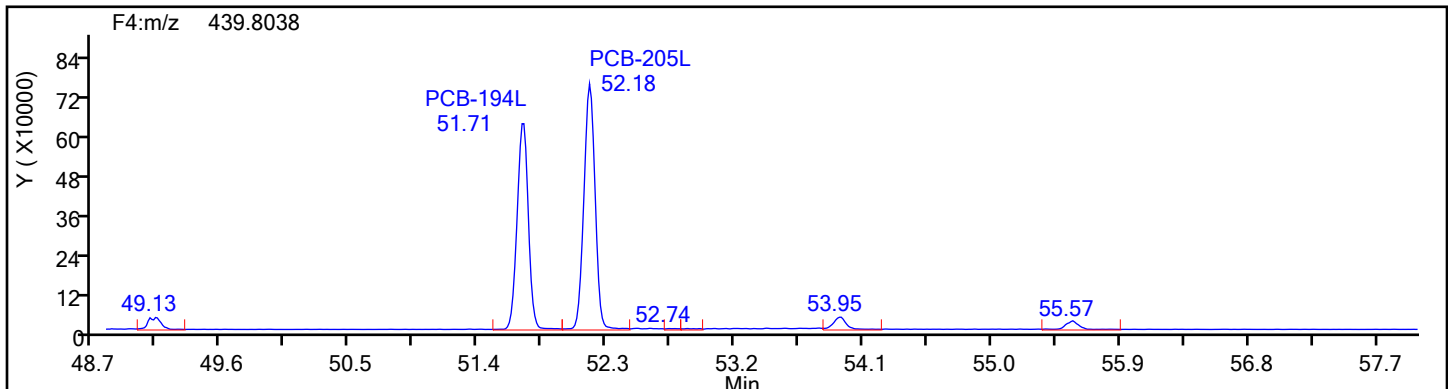
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

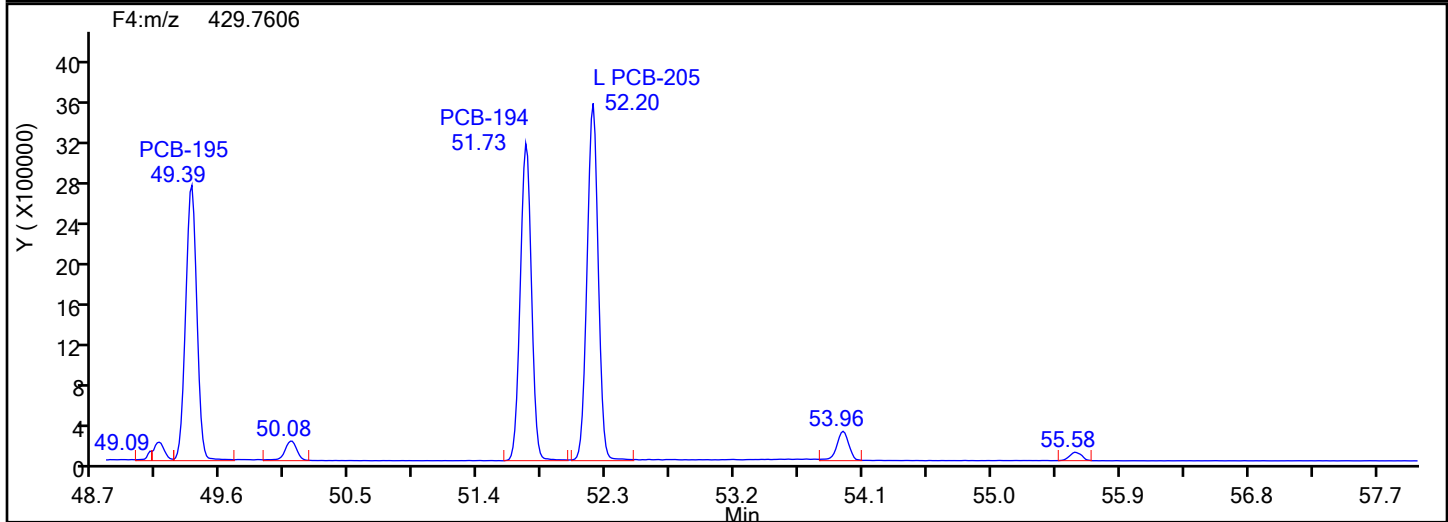
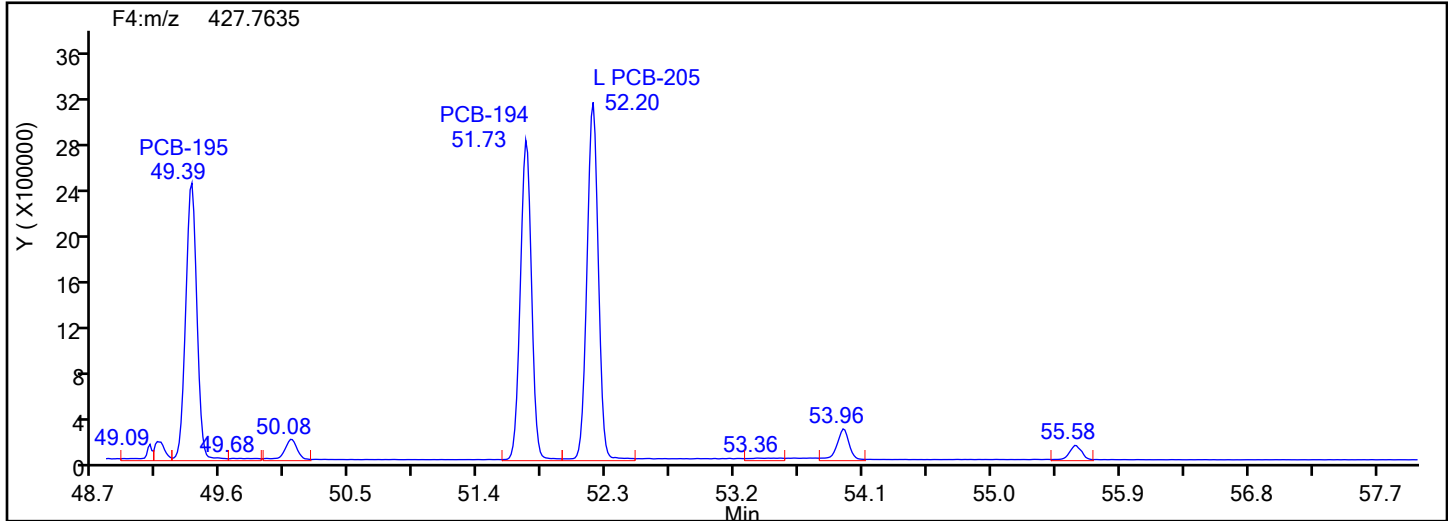
Worklist#: 87130

Sample Line#: 5

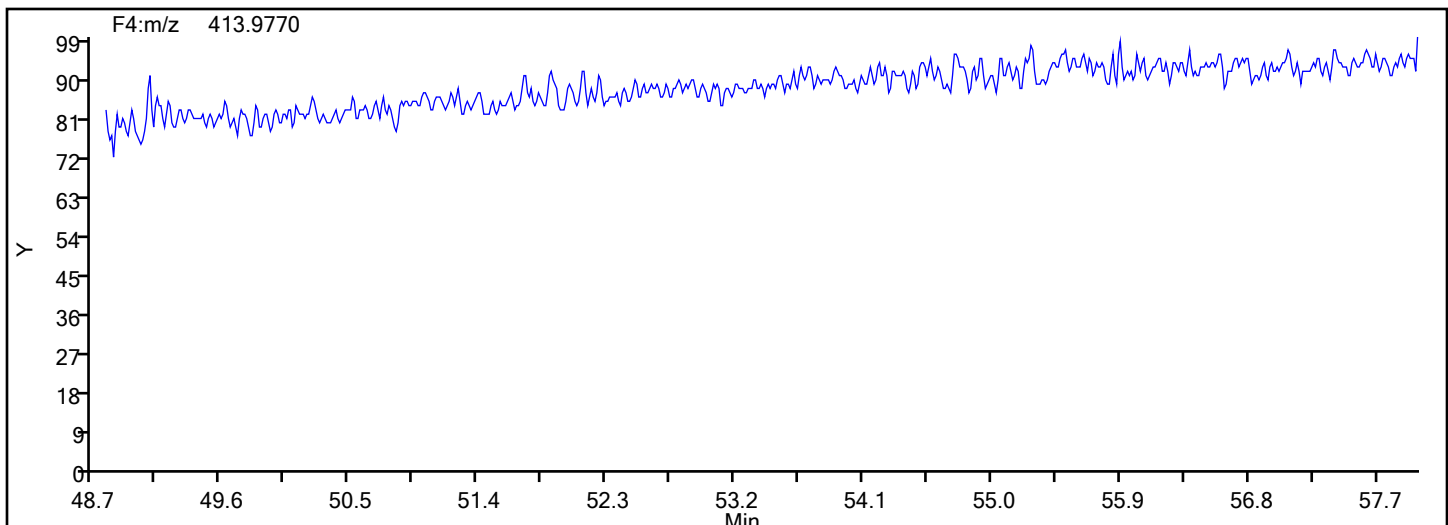
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

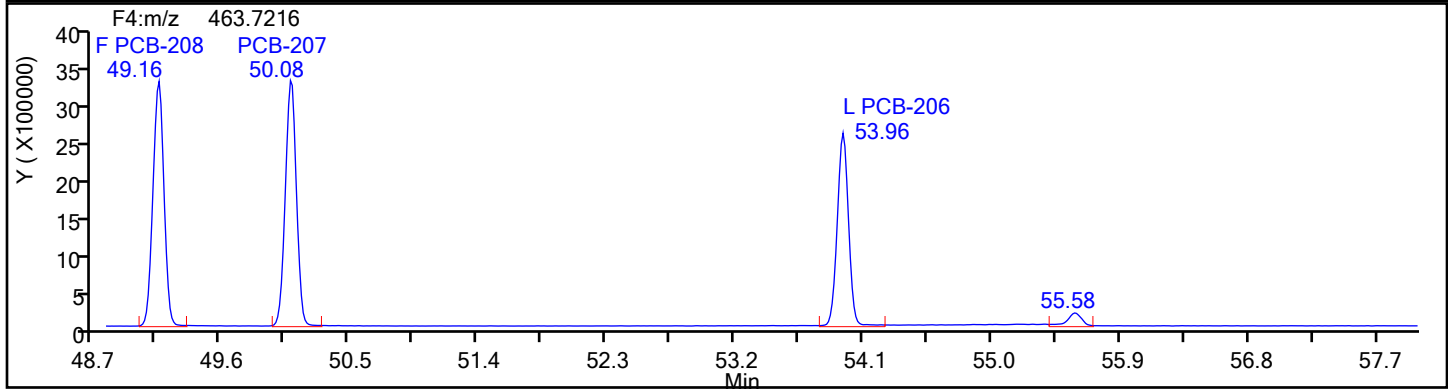
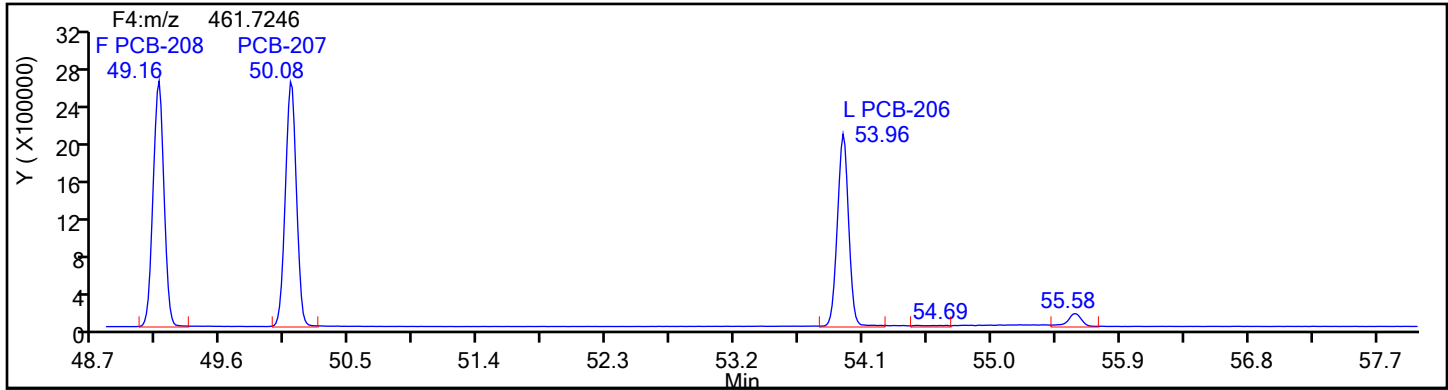


OcPCB F4 Lock Mass

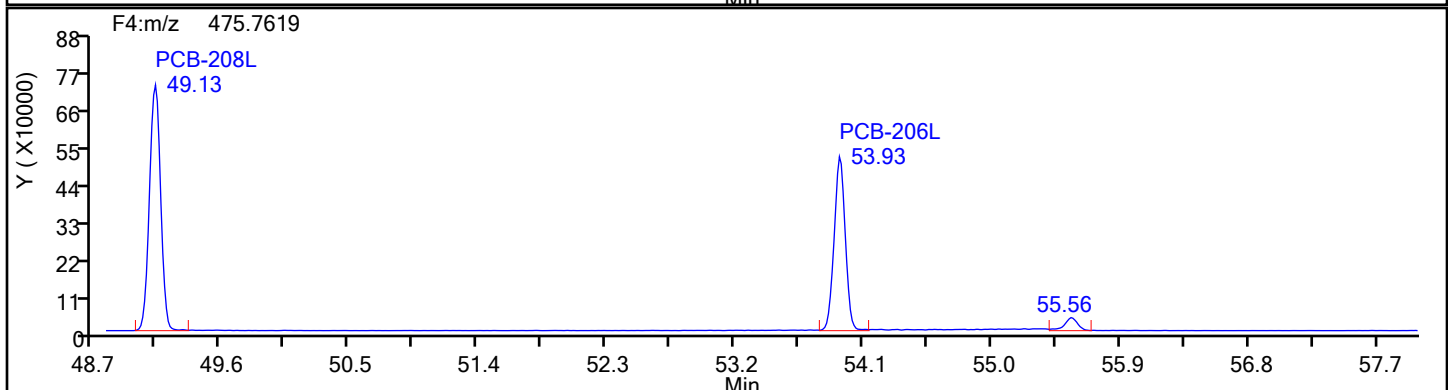
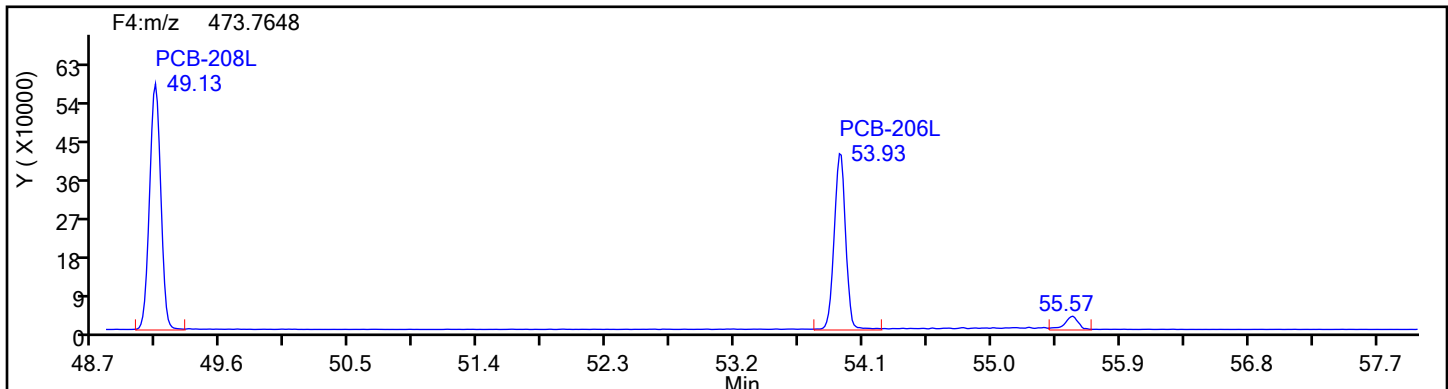


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 5  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



## NoPCB F4 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

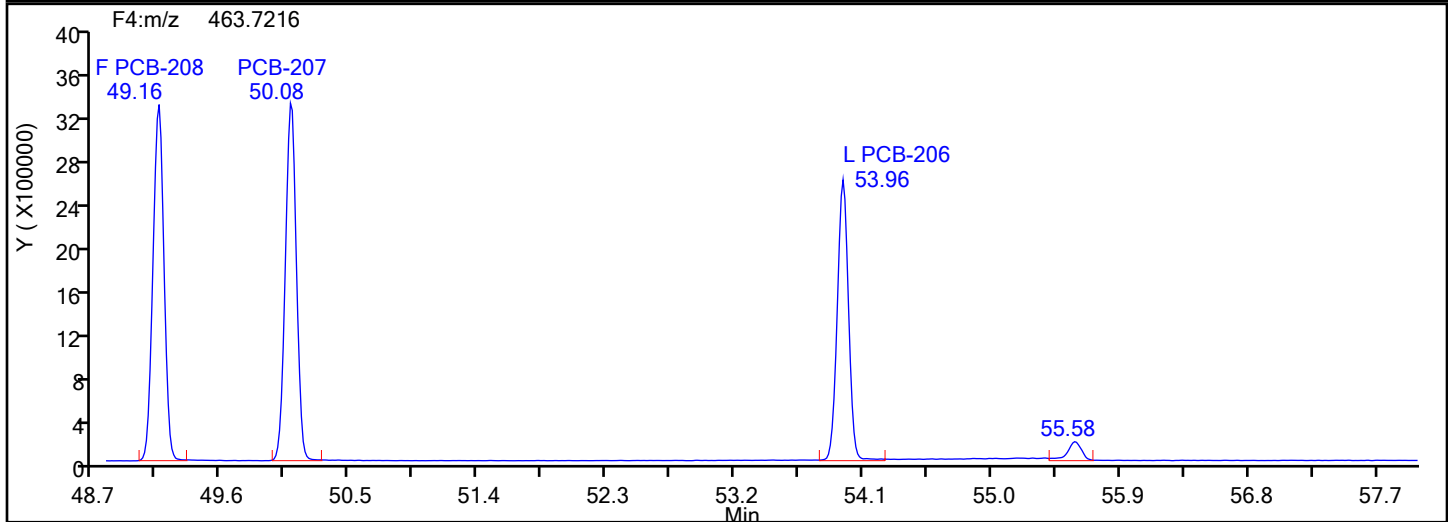
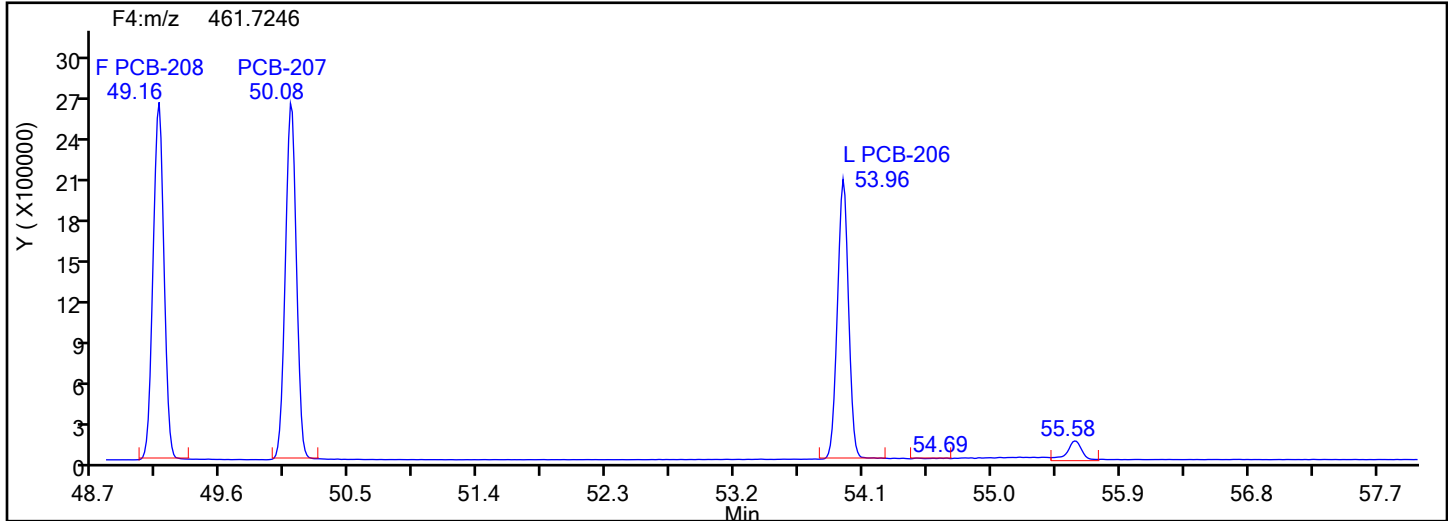
Worklist#: 87130

Sample Line#: 5

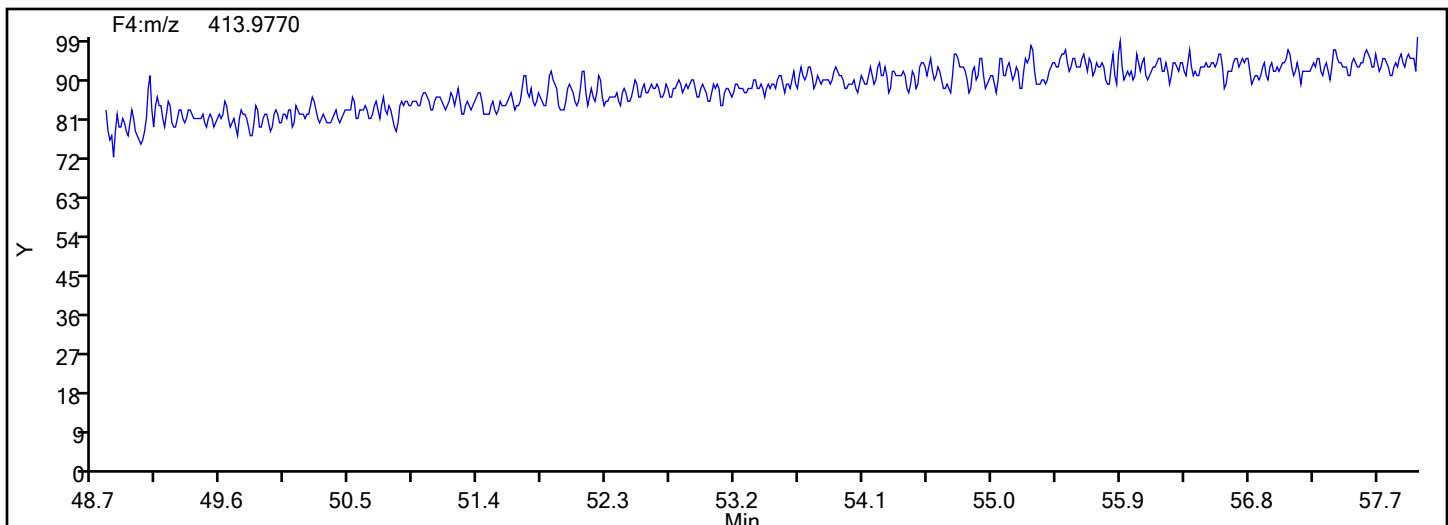
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

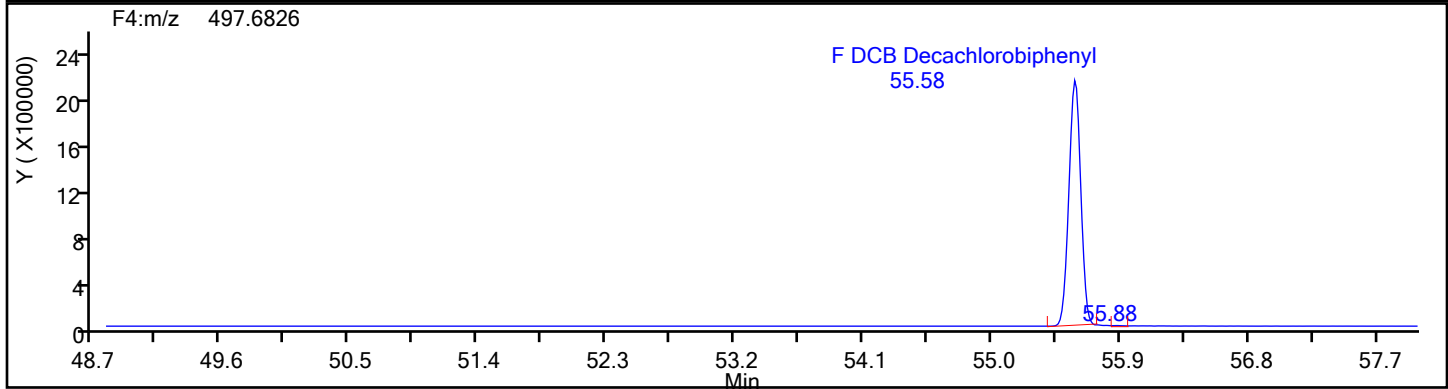
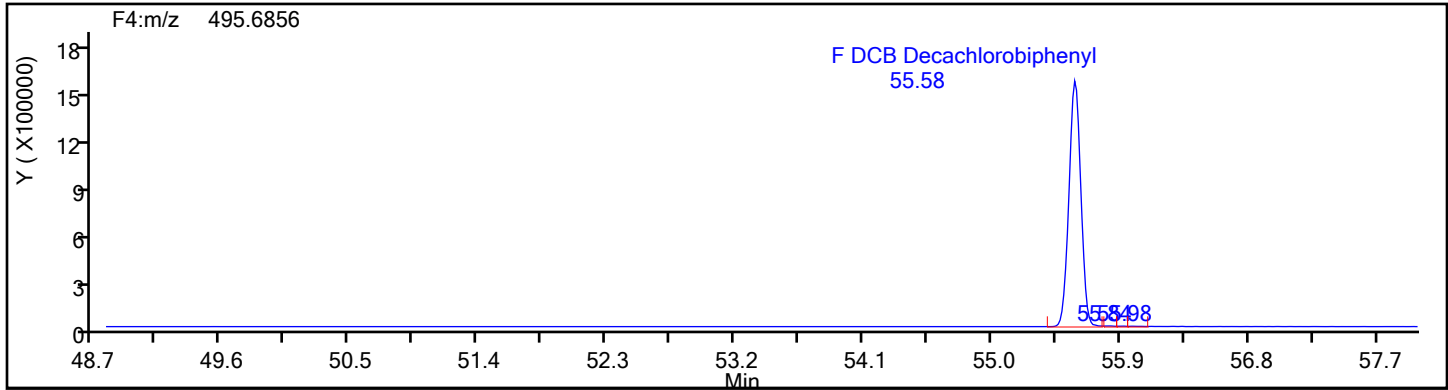


NoPCB F4 Lock Mass

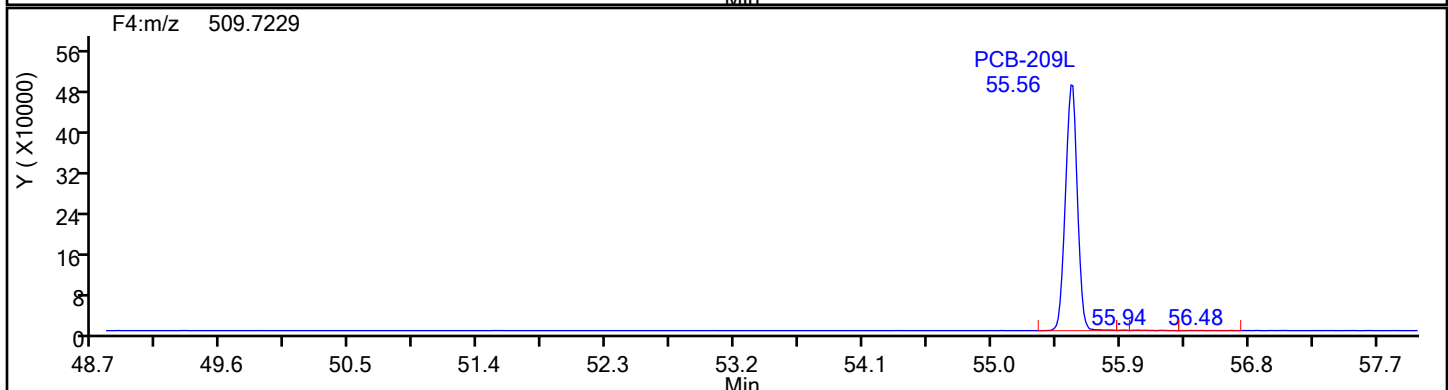
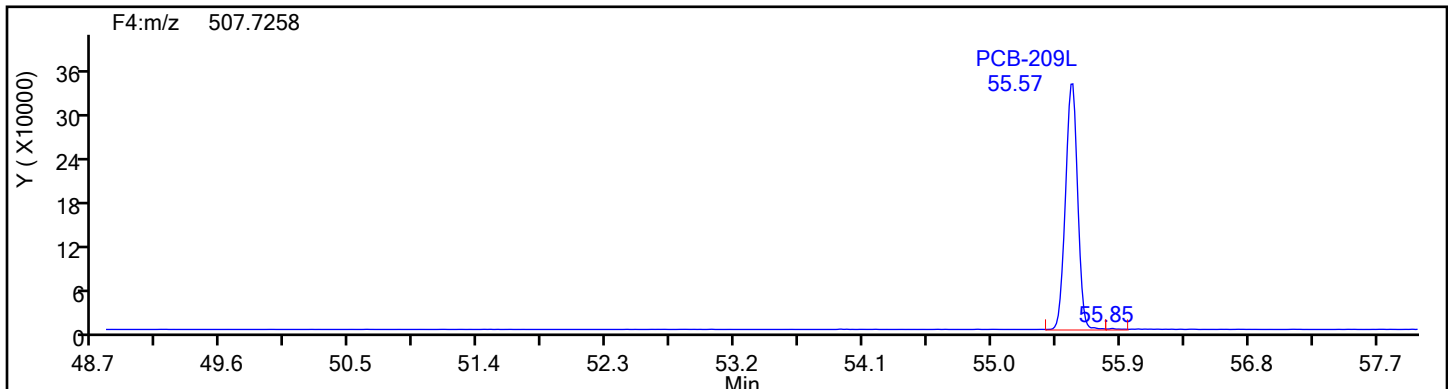


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d  
Injection Date: 31-May-2024 20:12:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 5  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi5.d

Injection Date: 31-May-2024 20:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

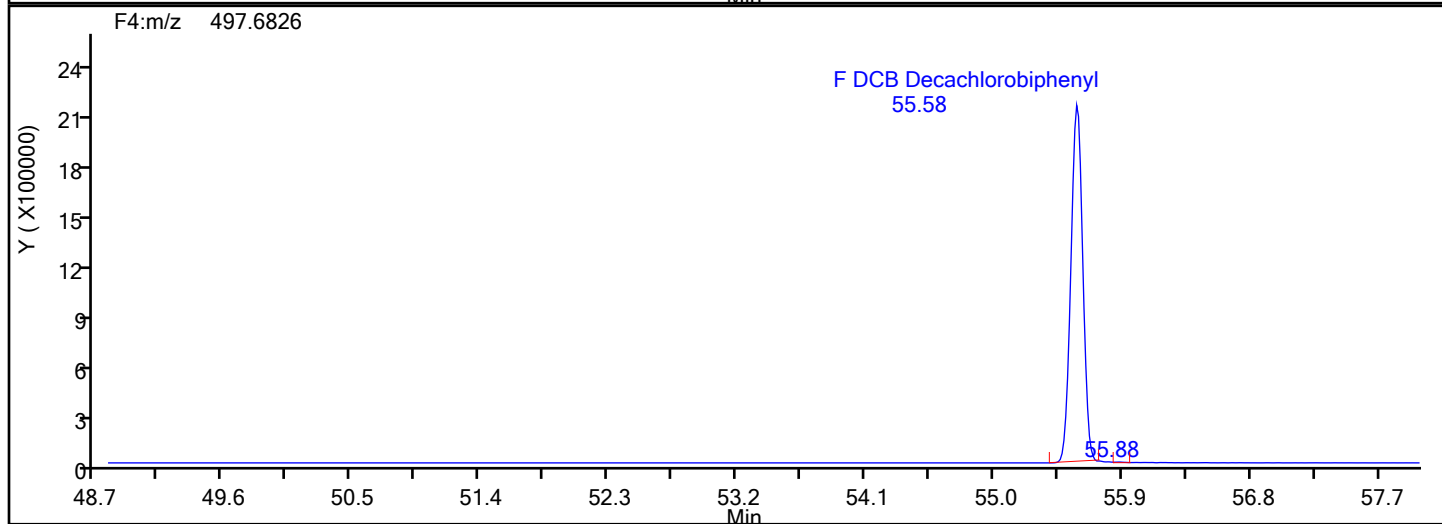
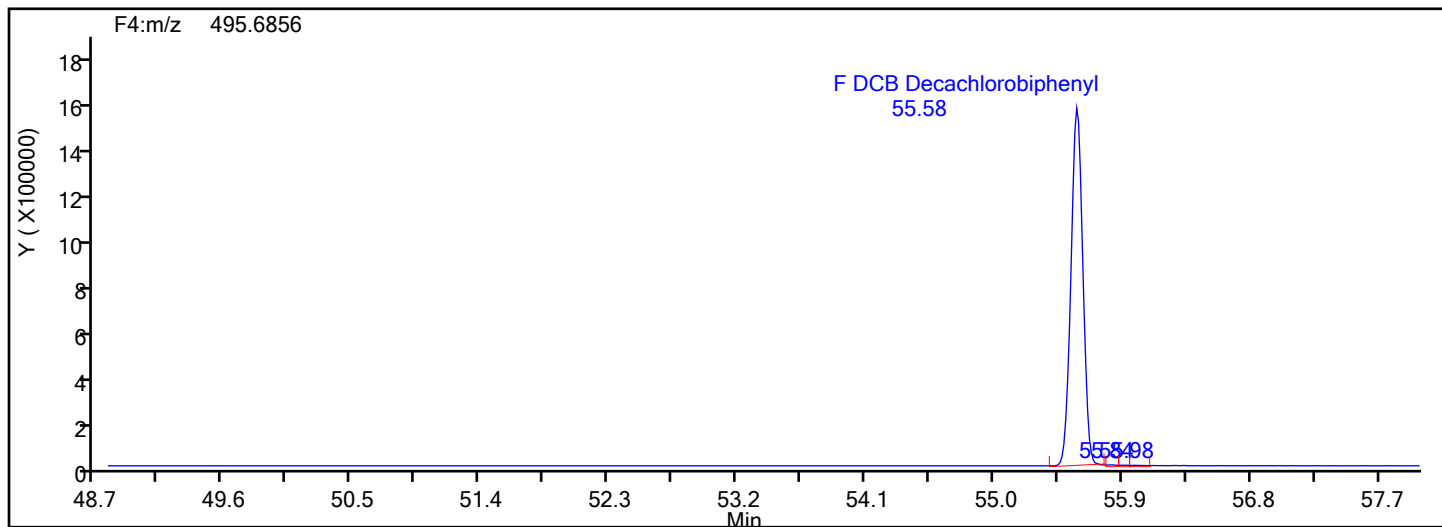
Worklist#: 87130

Sample Line#: 5

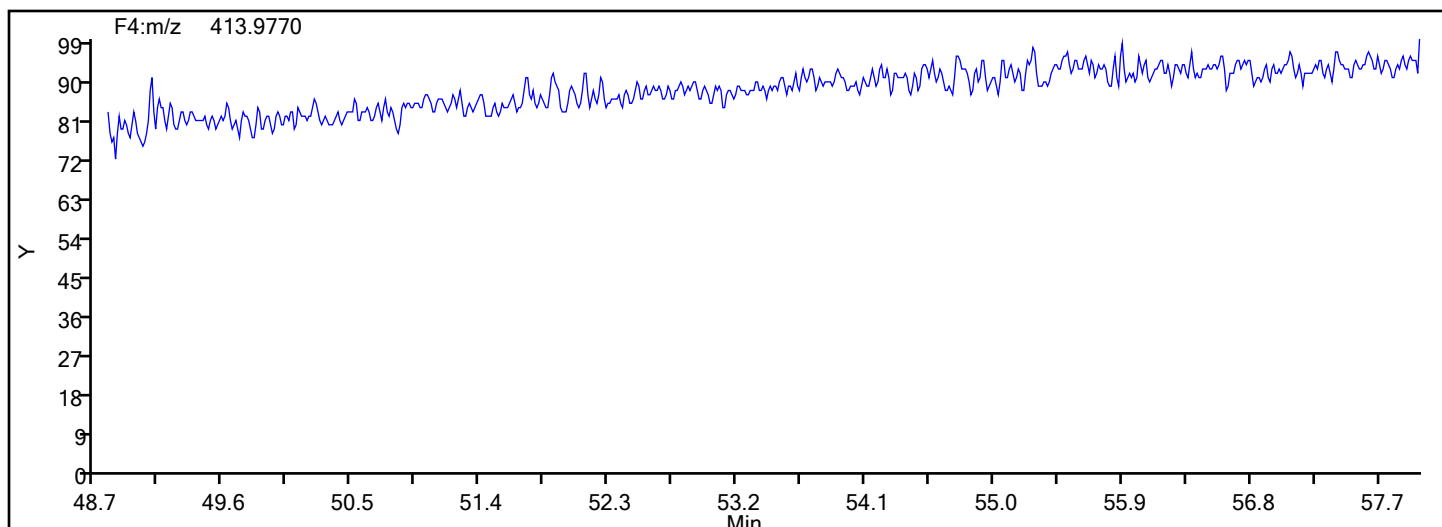
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Lims ID: IC L6  
Client ID:  
Sample Type: IC Calib Level: 6  
Inject. Date: 31-May-2024 21:13:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-006  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:25:39 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 04-Jun-2024 14:25:39

Compound	RT (min.)	Area	Ratio	lcal RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					6050.2	5949.6	4.701	4.701		RQ
D PCB-1L	11:34	14103562	3.21	1.6108	98.8	98.8	0.2774	0.2774	98.76	
D PCB-3L	13:43	14397062	3.23	1.5891	102.2	102.2	0.2812	0.2812	102	
PCB-1	11:35	309510797	3.13	1.2191	1900.7	1800.1	4.344	4.344	95.03	RQ
PCB-2	13:34	353084495	2.92	1.1805	2098.9	2098.9	4.790	4.790	105	
PCB-3	13:44	360356023	2.98	1.2206	2050.6	2050.6	4.970	4.970	103	
S Total Dichlorobiphenyls					25569	25569	0.0304	0.0304		
D PCB-4L	13:59	5672202	1.58	0.6475	98.8	98.8	0.1387	0.1387	98.80	
* PCB-9L	15:57	8865731	1.63		100.0	100.0				
D PCB-15L	19:52	10031243	1.62	1.0789	104.9	104.9	0.0832	0.0832	105	
PCB-4	14:00	152709290	1.62	1.2818	2100.3	2100.3	0.0384	0.0384	105	
PCB-10	14:10	219606512	1.65	1.3149	2127.2	2127.2	0.0317	0.0317	106	
PCB-9	15:58	234989711	1.65	1.4224	2104.0	2104.0	0.0293	0.0293	105	
PCB-7	16:08	231331814	1.64	1.4134	2084.5	2084.5	0.0295	0.0295	104	
PCB-6	16:22	255647445	1.65	1.5421	2111.4	2111.4	0.0271	0.0271	106	
PCB-5	16:41	222818417	1.66	1.3395	2118.6	2118.6	0.0311	0.0311	106	
PCB-8	16:48	268244897	1.65	1.5889	2150.2	2150.2	0.0263	0.0263	108	
PCB-14	18:26	231080321	1.65	1.4025	2098.5	2098.5	0.0297	0.0297	105	
PCB-11	19:16	216275260	1.64	1.2951	2126.9	2126.9	0.0322	0.0322	106	
PCB-12	19:34	468162119	1.66	1.3358	4463.7	4463.7	0.0312	0.0312	112	
PCB-13 (C12)	19:34	468162119	1.66	1.3358	4463.7	4463.7	0.0312	0.0312	112	
PCB-15	19:53	269724618	1.64	1.2903	2083.9	2083.9	0.0281	0.0281	104	
S Total Trichlorobiphenyls					51916	51916	7.558	7.558		
D PCB-19L	17:05	3634856	1.08	0.6285	98.0	98.0	0.2793	0.2793	97.99	
* PCB-32L	20:20	5901385	1.09		100.0	100.0				
* PCB-31L	22:37	17316704	1.05		100.0	100.0				
D PCB-37L	26:54	15552321	1.07	0.8749	102.6	102.6	0.1085	0.1085	103	
PCB-19	17:06	94419028	1.05	1.2809	2028.0	2028.0	0.0572	0.0572	101	
PCB-18	18:57	272933390	1.05	1.7652	4253.7	4253.7	0.0415	0.0415	106	
PCB-30 (C18)	18:57	272933390	1.05	1.7652	4253.7	4253.7	0.0415	0.0415	106	
PCB-17	19:23	91948427	1.05	1.2430	2035.1	2035.1	0.0590	0.0590	102	
PCB-27	19:37	145107554	1.05	1.8327	2178.3	2178.3	0.0400	0.0400	109	
PCB-24	19:44	131161059	1.05	1.6777	2150.9	2150.9	0.0437	0.0437	108	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:51	85816817	1.06	1.1286	2092.0	2092.0	0.0650	0.0650	105	
PCB-32	20:22	140138189	1.06	1.8324	2104.0	2104.0	0.0400	0.0400	105	
PCB-34	21:37	373345873	1.06	1.1277	2128.7	2128.7	11.7	11.7	106	
PCB-23	21:47	352538213	1.04	1.0813	2096.3	2096.3	12.2	12.2	105	
PCB-26	22:06	788218448	1.02	1.1255	4503.2	4503.2	11.7	11.7	113	
PCB-29 (C26)	22:06	788218448	1.02	1.1255	4503.2	4503.2	11.7	11.7	113	
PCB-25	22:19	436326451	1.04	1.2728	2204.3	2204.3	10.4	10.4	110	
PCB-31	22:38	378421846	1.04	1.1532	2109.9	2109.9	11.4	11.4	105	
PCB-20	22:56	842454191	1.03	1.1718	4622.7	4622.7	11.3	11.3	116	
PCB-28 (C20)	22:56	842454191	1.03	1.1718	4622.7	4622.7	11.3	11.3	116	
PCB-21	23:06	749389733	1.03	1.0746	4484.1	4484.1	12.3	12.3	112	M
PCB-33 (C21)	23:06	749389733	1.03	1.0746	4484.1	4484.1	12.3	12.3	112	M
PCB-22	23:33	398788093	1.05	1.1932	2148.9	2148.9	11.1	11.1	107	
PCB-36	25:07	361500062	1.11	1.1071	2099.6	2099.6	11.9	11.9	105	
PCB-39	25:28	394634471	1.05	1.1581	2191.0	2191.0	11.4	11.4	110	
PCB-38	26:03	383822577	1.05	1.0843	2276.0	2276.0	12.2	12.2	114	
PCB-35	26:31	371576451	1.05	1.1297	2114.9	2114.9	11.7	11.7	106	
PCB-37	26:55	372528859	1.05	1.1435	2094.7	2094.7	11.5	11.5	105	
S Total Tetrachlorobiphenyls					91427	91427	10.7	10.7		
D PCB-54L	20:10	3193810	0.79	0.5562	97.3	97.3	0.0513	0.0513	97.30	M
* PCB-52L	24:45	8475970	0.80		100.0	100.0				
D PCB-81L	33:40	11264701	0.81	1.2470	106.6	106.6	0.1274	0.1274	107	
D PCB-77L	34:13	11187391	0.81	1.3212	99.9	99.9	0.1202	0.1202	99.90	
PCB-54	20:12	84275390	0.80	1.2733	2072.3	2072.3	0.0719	0.0719	104	
PCB-50	22:23	424571971	0.77	0.8578	4409.1	4409.1	13.8	13.8	110	
PCB-53 (C50)	22:23	424571971	0.77	0.8578	4409.1	4409.1	13.8	13.8	110	
PCB-45	23:06	401693892	0.80	0.8264	4329.7	4329.7	14.4	14.4	108	M
PCB-51 (C45)	23:06	401693892	0.80	0.8264	4329.7	4329.7	14.4	14.4	108	M
PCB-46	23:20	157969398	0.78	0.7101	1981.7	1981.7	16.7	16.7	99.08	
PCB-52	24:46	214166805	0.77	0.9194	2075.0	2075.0	12.9	12.9	104	
PCB-43	24:55	489361192	0.76	1.0333	4218.5	4218.5	11.5	11.5	105	Ma
PCB-73 (C43)	24:55	489361192	0.76	1.0333	4218.5	4218.5	11.5	11.5	105	Ma
PCB-49	25:12	518749137	0.76	1.0685	4324.6	4324.6	11.1	11.1	108	M
PCB-69 (C49)	25:12	518749137	0.76	1.0685	4324.6	4324.6	11.1	11.1	108	M
PCB-48	25:32	194390518	0.78	0.8399	2061.7	2061.7	14.1	14.1	103	
PCB-44	25:47	773503972	0.77	0.9731	7080.7	7080.7	12.2	12.2	118	
PCB-47 (C44)	25:47	773503972	0.77	0.9731	7080.7	7080.7	12.2	12.2	118	
PCB-65 (C44)	25:47	773503972	0.77	0.9731	7080.7	7080.7	12.2	12.2	118	
PCB-59	26:05	952848187	0.77	1.1853	7161.2	7161.2	10.0	10.0	119	
PCB-62 (C59)	26:05	952848187	0.77	1.1853	7161.2	7161.2	10.0	10.0	119	
PCB-75 (C59)	26:05	952848187	0.77	1.1853	7161.2	7161.2	10.0	10.0	119	
PCB-42	26:17	186831580	0.78	0.8097	2055.5	2055.5	14.7	14.7	103	
PCB-40	26:47	641280083	0.76	0.8863	6445.0	6445.0	13.4	13.4	107	Ma
PCB-41 (C40)	26:47	641280083	0.76	0.8863	6445.0	6445.0	13.4	13.4	107	Ma
PCB-71 (C40)	26:47	641280083	0.76	0.8863	6445.0	6445.0	13.4	13.4	107	Ma
PCB-64	27:00	268312321	0.77	1.1776	2029.7	2029.7	10.1	10.1	101	
PCB-72	27:50	260036448	0.78	1.0943	2116.8	2116.8	10.9	10.9	106	
PCB-68	28:07	302767134	0.77	1.2533	2151.9	2151.9	9.475	9.475	108	
PCB-57	28:33	259652587	0.77	1.0818	2138.0	2138.0	11.0	11.0	107	
PCB-58	28:47	332927040	0.77	1.3253	2237.6	2237.6	8.960	8.960	112	
PCB-67	28:57	349063048	0.78	1.4230	2185.0	2185.0	8.345	8.345	109	
PCB-63	29:13	261710211	0.77	1.1240	2074.1	2074.1	10.6	10.6	104	
PCB-61	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-70 (C61)	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-74 (C61)	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-76 (C61)	29:33	1322616466	0.80	1.2612	9341.3	9341.3	9.415	9.415	117	
PCB-66	29:52	306877309	0.77	1.2583	2172.6	2172.6	9.438	9.438	109	
PCB-55	30:02	318274904	0.77	1.3236	2141.9	2141.9	8.971	8.971	107	
PCB-56	30:32	290239949	0.77	1.2334	2096.2	2096.2	9.628	9.628	105	
PCB-60	30:45	262262219	0.77	1.1230	2080.2	2080.2	10.6	10.6	104	
PCB-80	31:10	317715187	0.78	1.3243	2137.2	2137.2	8.967	8.967	107	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:42	354295498	0.77	1.4368	2196.5	2196.5	8.265	8.265	110	
PCB-78	33:15	259722209	0.78	1.1618	1991.3	1991.3	10.2	10.2	99.57	
PCB-81	33:41	246419766	0.78	1.0802	2025.1	2025.1	10.9	10.9	101	
PCB-77	34:15	254122136	0.77	1.0836	2096.3	2096.3	11.1	11.1	105	
S Total Pentachlorobiphenyls					98197	98197	4.748	4.748		
D PCB-104L	25:42	6975966	1.61	1.2161	94.1	94.1	0.0335	0.0335	94.11	
* PCB-101L	31:36	6095567	1.60		100.0	100.0				
D PCB-123L	36:15	11406816	1.61	0.9731	104.7	104.7	0.8209	0.8209	105	
D PCB-118L	36:34	11370905	1.59	1.0102	100.6	100.6	0.7908	0.7908	101	
D PCB-114L	37:06	11474644	1.60	0.9949	103.0	103.0	0.8029	0.8029	103	
D PCB-105L	37:44	10771838	1.58	0.9514	101.1	101.1	0.8396	0.8396	101	
* PCB-127L	39:13	11193535	1.59		100.0	100.0				
D PCB-126L	40:49	11098540	1.58	0.9439	105.0	105.0	0.8463	0.8463	105	
PCB-104	25:42	148594312	1.61	1.0087	2111.7	2111.7	0.0696	0.0696	106	
PCB-96	26:05	165718292	1.62	1.0940	2171.4	2171.4	0.0642	0.0642	109	
PCB-103	28:01	125264432	1.61	0.8741	2054.2	2054.2	0.0803	0.0803	103	
PCB-94	28:14	104404112	1.61	0.7640	1958.9	1958.9	0.0919	0.0919	97.94	
PCB-95	28:41	115750524	1.60	0.8033	2065.6	2065.6	0.0874	0.0874	103	
PCB-93	28:54	255671436	1.63	0.8429	4348.3	4348.3	0.0833	0.0833	109	
PCB-100 (C93)	28:54	255671436	1.63	0.8429	4348.3	4348.3	0.0833	0.0833	109	
PCB-98	29:03	237097257	1.62	0.8262	4113.9	4113.9	0.0850	0.0850	103	
PCB-102 (C98)	29:03	237097257	1.62	0.8262	4113.9	4113.9	0.0850	0.0850	103	
PCB-88	29:33	238830684	1.62	0.8013	4272.6	4272.6	0.0876	0.0876	107	
PCB-91 (C88)	29:33	238830684	1.62	0.8013	4272.6	4272.6	0.0876	0.0876	107	
PCB-84	29:46	101701980	1.61	0.7299	1997.3	1997.3	0.0962	0.0962	99.86	
PCB-89	30:15	106371354	1.61	0.7798	1955.3	1955.3	0.0900	0.0900	97.77	
PCB-121	30:40	189494866	1.62	1.2964	2095.3	2095.3	0.0541	0.0541	105	M
PCB-92	31:02	119034801	1.63	0.8546	1996.8	1996.8	0.0821	0.0821	99.84	M
PCB-90	31:37	445746570	1.64	0.9550	6690.9	6690.9	0.0735	0.0735	112	
PCB-101 (C90)	31:37	445746570	1.64	0.9550	6690.9	6690.9	0.0735	0.0735	112	
PCB-113 (C90)	31:37	445746570	1.64	0.9550	6690.9	6690.9	0.0735	0.0735	112	
PCB-83	32:12	241281713	1.61	0.8385	4124.9	4124.9	0.0837	0.0837	103	
PCB-99 (C83)	32:12	241281713	1.61	0.8385	4124.9	4124.9	0.0837	0.0837	103	
PCB-112	32:19	200578005	1.62	1.4111	2037.6	2037.6	0.0497	0.0497	102	
PCB-86	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-87 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-97 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-109 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-119 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-125 (C86)	32:41	1031232134	1.68	1.0473	14115	14115	0.0670	0.0670	118	M
PCB-85	33:25	471144048	1.63	1.0408	6489.1	6489.1	0.0674	0.0674	108	
PCB-116 (C85)	33:25	471144048	1.63	1.0408	6489.1	6489.1	0.0674	0.0674	108	
PCB-117 (C85)	33:25	471144048	1.63	1.0408	6489.1	6489.1	0.0674	0.0674	108	
PCB-110	33:36	348252734	1.63	1.1919	4188.6	4188.6	0.0589	0.0589	105	
PCB-115 (C110)	33:36	348252734	1.63	1.1919	4188.6	4188.6	0.0589	0.0589	105	
PCB-82	33:54	118090307	1.61	0.8303	2038.7	2038.7	0.0845	0.0845	102	
PCB-111	34:19	172673938	1.62	1.2125	2041.4	2041.4	0.0579	0.0579	102	
PCB-120	34:46	217057638	1.63	1.4762	2107.7	2107.7	0.0475	0.0475	105	
PCB-108	35:54	576858278	1.66	1.1405	4506.1	4506.1	14.2	14.2	113	
PCB-124 (C108)	35:54	576858278	1.66	1.1405	4506.1	4506.1	14.2	14.2	113	
PCB-107	36:09	280088284	1.61	1.2121	2058.7	2058.7	13.4	13.4	103	
PCB-123	36:16	259083255	1.62	1.0722	2118.3	2118.3	14.6	14.6	106	
PCB-106	36:22	259205947	1.61	1.0839	2130.5	2130.5	14.9	14.9	107	
PCB-118	36:35	282900049	1.62	1.2055	2063.7	2063.7	13.0	13.0	103	
PCB-122	36:56	217083178	1.61	0.9567	2021.5	2021.5	16.9	16.9	101	
PCB-114	37:07	259907186	1.61	1.0842	2089.2	2089.2	14.7	14.7	104	
PCB-105	37:46	263476320	1.60	1.1879	2059.1	2059.1	14.2	14.2	103	
PCB-127	39:14	264011122	1.61	1.1394	2064.4	2064.4	14.2	14.2	103	
PCB-126	40:51	256982981	1.61	1.0976	2109.6	2109.6	15.4	15.4	105	
S Total Hexachlorobiphenyls					88220	88220	4.989	4.989		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-155L	31:22	6037909	1.27	1.0851	91.3	91.3	0.0236	0.0236	91.28	
* PCB-138L	39:41	7617968	1.29		100.0	100.0				
\$ PCB-159L	41:56	4754884	1.29	0.5118	99.9	99.9	1.026	1.026	99.93	
D PCB-167L	42:42	9296213	1.30	1.2572	97.1	97.1	0.5148	0.5148	97.06	
D PCB-156L	43:51	18003846	1.29	1.2106	195.2	195.2	0.5347	0.5347	97.61	
D PCB-157L (C156L)	43:51	18003846	1.29	1.2106	195.2	195.2	0.5347	0.5347	97.61	
D PCB-169L	47:05	9278382	1.28	1.2439	97.9	97.9	0.5204	0.5204	97.92	
PCB-155	31:24	117062772	1.28	0.9444	2052.9	2052.9	0.0776	0.0776	103	
PCB-152	31:35	127316142	1.27	0.9895	2130.9	2130.9	0.0740	0.0740	107	
PCB-150	31:45	127390982	1.28	1.0132	2082.3	2082.3	0.0723	0.0723	104	
PCB-136	32:07	128715901	1.29	1.0116	2107.4	2107.4	0.0724	0.0724	105	
PCB-145	32:24	121971700	1.28	0.9685	2085.8	2085.8	0.0756	0.0756	104	
PCB-148	33:56	97145990	1.27	0.7603	2116.2	2116.2	0.0964	0.0964	106	
PCB-135	34:31	185302824	1.27	0.7256	4229.8	4229.8	0.1010	0.1010	106	M
PCB-151 (C135)	34:31	185302824	1.27	0.7256	4229.8	4229.8	0.1010	0.1010	106	M
PCB-154	34:46	103679991	1.28	0.8129	2112.4	2112.4	0.0901	0.0901	106	
PCB-144	35:05	96362038	1.28	0.7852	2032.4	2032.4	0.0933	0.0933	102	
PCB-147	35:27	357302891	1.28	0.8950	4365.8	4365.8	7.302	7.302	109	
PCB-149 (C147)	35:27	357302891	1.28	0.8950	4365.8	4365.8	7.302	7.302	109	
PCB-134	35:45	291141501	1.27	0.7967	3996.3	3996.3	8.203	8.203	99.91	
PCB-143 (C134)	35:45	291141501	1.27	0.7967	3996.3	3996.3	8.203	8.203	99.91	
PCB-139	36:03	349280537	1.27	0.8769	4355.9	4355.9	7.453	7.453	109	
PCB-140 (C139)	36:03	349280537	1.27	0.8769	4355.9	4355.9	7.453	7.453	109	
PCB-131	36:15	145204904	1.26	0.7503	2116.4	2116.4	8.710	8.710	106	
PCB-142	36:23	147452709	1.27	0.7507	2147.9	2147.9	8.706	8.706	107	
PCB-132	36:42	134732483	1.27	0.7489	1967.3	1967.3	8.726	8.726	98.36	
PCB-133	37:13	147730024	1.27	0.8096	1995.5	1995.5	8.073	8.073	99.77	
PCB-165	37:37	191105968	1.27	1.0247	2039.4	2039.4	6.378	6.378	102	
PCB-146	37:52	183787905	1.26	0.9637	2085.5	2085.5	6.782	6.782	104	
PCB-161	37:59	217946430	1.28	1.1288	2111.5	2111.5	5.790	5.790	106	
PCB-153	38:29	433749157	1.28	1.0938	4336.6	4336.6	5.975	5.975	108	
PCB-168 (C153)	38:29	433749157	1.28	1.0938	4336.6	4336.6	5.975	5.975	108	
PCB-141	38:40	155876662	1.27	0.8755	1946.9	1946.9	7.465	7.465	97.35	
PCB-130	39:04	126435560	1.26	0.7051	1960.9	1960.9	9.268	9.268	98.04	
PCB-137	39:18	145652162	1.26	0.7767	2050.8	2050.8	8.415	8.415	103	
PCB-164	39:25	196637037	1.27	1.0382	2071.1	2071.1	6.295	6.295	104	
PCB-129	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-138 (C129)	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-160 (C129)	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-163 (C129)	39:44	763652147	1.27	0.9464	8823.8	8823.8	6.905	6.905	110	M
PCB-158	40:06	240225815	1.28	1.3110	2003.7	2003.7	4.985	4.985	100	
PCB-128	40:57	400795430	1.27	0.9829	4458.9	4458.9	6.649	6.649	111	
PCB-166 (C128)	40:57	400795430	1.27	0.9829	4458.9	4458.9	6.649	6.649	111	
PCB-159	41:58	268867618	1.27	1.3856	2121.9	2121.9	4.717	4.717	106	
PCB-162	42:15	227875192	1.27	1.2571	1982.3	1982.3	5.199	5.199	99.11	
PCB-167	42:43	213807712	1.27	1.1159	2061.1	2061.1	4.915	4.915	103	
PCB-156	43:53	422223885	1.26	1.1104	4224.0	4224.0	7.237	7.237	106	
PCB-157 (C156)	43:53	422223885	1.26	1.1104	4224.0	4224.0	7.237	7.237	106	
PCB-169	47:06	220826313	1.28	1.1628	2046.7	2046.7	4.755	4.755	102	
S Total Heptachlorobiphenyls					48937	48937	0.1057	0.1057		
D PCB-188L	37:06	7440630	1.05	1.3133	101.8	101.8	0.0381	0.0381	102	
* PCB-180L	45:15	5566234	1.10		100.0	100.0				
D PCB-170L	46:30	4404173	1.08	0.8362	94.6	94.6	0.0598	0.0598	94.62	
D PCB-189L	49:37	11047526	1.06	1.4414	102.5	102.5	0.2551	0.2551	102	
PCB-188	37:07	172058230	1.06	1.1350	2037.4	2037.4	0.0512	0.0512	102	
PCB-179	37:27	169294763	1.06	1.4276	2002.4	2002.4	0.0524	0.0524	100	
PCB-184	37:59	173580025	1.05	1.3672	2143.8	2143.8	0.0548	0.0548	107	
PCB-176	38:20	147820845	1.06	1.2331	2024.2	2024.2	0.0607	0.0607	101	
PCB-186	38:48	183358035	1.05	1.4737	2100.8	2100.8	0.0508	0.0508	105	
PCB-178	40:10	108531079	1.06	0.8946	2048.4	2048.4	0.0837	0.0837	102	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-175	40:48	114534847	1.05	0.9524	2030.6	2030.6	0.0786	0.0786	102	
PCB-187	41:05	135710155	1.06	1.1018	2079.7	2079.7	0.0679	0.0679	104	
PCB-182	41:17	113333574	1.05	0.9247	2069.5	2069.5	0.0810	0.0810	103	
PCB-183	41:42	226842465	1.07	0.9825	3898.5	3898.5	0.0762	0.0762	97.46	Ma
PCB-185 (C183)	41:42	226842465	1.07	0.9825	3898.5	3898.5	0.0762	0.0762	97.46	Ma
PCB-174	41:56	120778067	1.05	0.9642	2115.1	2115.1	0.0776	0.0776	106	
PCB-177	42:22	115865581	1.05	0.9773	2001.9	2001.9	0.0766	0.0766	100	
PCB-181	42:45	115218365	1.06	0.9505	2046.7	2046.7	0.0788	0.0788	102	
PCB-171	42:58	222795208	1.06	0.9336	4029.3	4029.3	0.0802	0.0802	101	
PCB-173 (C171)	42:58	222795208	1.06	0.9336	4029.3	4029.3	0.0802	0.0802	101	
PCB-172	44:37	98480427	1.04	0.8519	1952.0	1952.0	0.0879	0.0879	97.60	
PCB-192	44:54	164428936	1.06	1.3459	2062.9	2062.9	0.0556	0.0556	103	
PCB-180	45:14	287312478	1.05	1.1676	4155.0	4155.0	0.0641	0.0641	104	
PCB-193 (C180)	45:14	287312478	1.05	1.1676	4155.0	4155.0	0.0641	0.0641	104	
PCB-191	45:37	156918655	1.07	1.2891	2055.4	2055.4	0.0581	0.0581	103	
PCB-170	46:31	104308327	1.05	1.1865	1996.1	1996.1	0.0887	0.0887	99.81	
PCB-190	47:02	158352425	1.06	1.3322	2007.0	2007.0	0.0562	0.0562	100	
PCB-189	49:38	221399680	1.04	0.9633	2080.3	2080.3	0.8387	0.8387	104	
S Total Octachlorobiphenyls					24392	24392	0.3094	0.3094		
D PCB-202L	42:28	5299657	0.89	0.9818	97.0	97.0	0.0448	0.0448	96.97	
* PCB-194L	51:43	7477993	0.92		100.0	100.0				
D PCB-205L	52:11	8823289	0.92	1.1786	100.1	100.1	0.0560	0.0560	100	
PCB-202	42:29	114836205	0.90	1.0359	2091.8	2091.8	0.0662	0.0662	105	
PCB-201	43:24	104750814	0.90	0.9754	2026.5	2026.5	0.0703	0.0703	101	
PCB-204	44:05	111110035	0.90	1.0485	1999.5	1999.5	0.0654	0.0654	99.98	
PCB-197	44:19	119677701	0.90	1.1458	1970.9	1970.9	0.0598	0.0598	98.54	
PCB-200	44:25	107343183	0.90	1.0072	2011.1	2011.1	0.0681	0.0681	101	
PCB-198	47:12	190066454	0.90	0.8698	4123.3	4123.3	0.0788	0.0788	103	
PCB-199 (C198)	47:12	190066454	0.90	0.8698	4123.3	4123.3	0.0788	0.0788	103	
PCB-196	47:53	81076975	0.90	0.7806	1959.7	1959.7	0.0878	0.0878	97.99	
PCB-203	48:05	98693847	0.91	0.9292	2004.1	2004.1	0.0738	0.0738	100	
PCB-195	49:24	154147844	0.90	0.8263	2114.3	2114.3	1.086	1.086	106	
PCB-194	51:44	173567729	0.89	0.9735	2020.7	2020.7	0.9219	0.9219	101	
PCB-205	52:13	198631608	0.89	1.0878	2069.6	2069.6	0.8251	0.8251	103	
S Total Nonachlorobiphenyls					5919.4	5919.4	1.080	1.080		
D PCB-208L	49:08	7275684	0.81	0.9576	101.6	101.6	0.2816	0.2816	102	
D PCB-206L	53:56	5196483	0.82	0.6947	100.0	100.0	0.3881	0.3881	100	
PCB-208	49:10	166655336	0.78	1.1374	2013.8	2013.8	1.005	1.005	101	
PCB-207	50:05	170983014	0.78	1.3756	1993.2	1993.2	0.9857	0.9857	99.66	
PCB-206	53:58	132627452	0.78	1.3346	1912.4	1912.4	1.248	1.248	95.62	M
D PCB-209L	55:35	4902169	0.71	0.6669	98.3	98.3	0.0745	0.0745	98.30	
DCB Decachlorobiphenyl	55:35	109226464	0.70	1.1004	2024.8	2024.8	0.0364	0.0364	101	
S Polychlorinated biphenyls, Total					436602	436602	3.289	3.289		

**QC Flag Legend**

## Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

61L51668P\_00006

Amount Added: 20.00

Units: uL



Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d  
Lims ID: IC L6  
Client ID:  
Sample Type: IC Calib Level: 6  
Inject. Date: 31-May-2024 21:13:00 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-006  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub16  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 04-Jun-2024 14:25:39 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1616

First Level Reviewer: P0IK

Date: 04-Jun-2024 14:25:39

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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## PCB-1L

200.0795	11:34	11:36	-2	0.725	10754013	4289788	3129	7822	1371		
202.0766	11:34	11:36	-2	0.725	3349549	1329717	1503	3757	885	3.21(2.66-3.60)	

## PCB-3L

200.0795	13:43	13:46	-2	0.861	10992517	3748060	3129	7822	1198		
202.0766	13:43	13:46	-2	0.861	3404545	1158657	1503	3757	771	3.23(2.66-3.60)	

## PCB-1

188.0393	11:35	11:37	-2	1.001	234568717	85607908	89899	224747	952		
190.0363	11:35	11:37	-2	1.001	92228311	38939705	29153	72882	1336	2.54(2.66-3.60)	
					Empc Correction	74942080	27350767	29153	72882	938	

RQ

## PCB-2

188.0393	13:34	13:36	-2	0.988	262988565	83986728	89899	224747	934		
190.0363	13:34	13:36	-2	0.988	90095930	32601300	29153	72882	1118	2.92(2.66-3.60)	

## PCB-3

188.0393	13:44	13:47	-2	1.001	269914050	86572525	89899	224747	963		
190.0363	13:44	13:47	-2	1.001	90441973	31826448	29153	72882	1092	2.98(2.66-3.60)	

## PCB-4L

234.0406	13:59	14:02	-2	0.877	3472582	1159519	752	1880	1542		
236.0376	13:59	14:02	-2	0.877	2199620	725220	179	447	4052	1.58(1.33-1.79)	

## PCB-9L

234.0406	15:57	15:59	-2		5493254	1600537	752	1880	2128		
236.0376	15:57	15:59	-2		3372477	990756	179	447	5535	1.63(1.33-1.79)	

## PCB-15L

234.0406	19:52	19:54	-2	1.246	6202272	1578840	752	1880	2100		
236.0376	19:52	19:54	-2	1.246	3828971	980067	179	447	5475	1.62(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-4											
222.0003	14:00	14:02	-2	1.001	94515395	32745412	171	427	191494		
223.9974	14:00	14:02	-2	1.001	58193895	20013994	200	500	100070	1.62(1.33-1.79)	
PCB-10											
222.0003	14:10	14:13	-2	1.013	136751884	47058628	171	427	275197		
223.9974	14:10	14:13	-2	1.013	82854628	27880362	200	500	139402	1.65(1.33-1.79)	
PCB-9											
222.0003	15:58	16:00	-2	1.142	146334689	44370793	171	427	259478		
223.9974	15:58	16:00	-2	1.142	88655022	26507740	200	500	132539	1.65(1.33-1.79)	
PCB-7											
222.0003	16:08	16:10	-2	1.153	143719888	44739433	171	427	261634		
223.9974	16:08	16:10	-2	1.153	87611926	27030236	200	500	135151	1.64(1.33-1.79)	
PCB-6											
222.0003	16:22	16:25	-3	1.170	159325476	47133801	171	427	275636		
223.9974	16:22	16:25	-3	1.170	96321969	28375772	200	500	141879	1.65(1.33-1.79)	
PCB-5											
222.0003	16:41	16:43	-2	1.193	138924762	40676201	171	427	237873		
223.9974	16:41	16:43	-2	1.193	83893655	24042204	200	500	120211	1.66(1.33-1.79)	
PCB-8											
222.0003	16:48	16:50	-2	1.201	166998039	50198121	171	427	293556		
223.9974	16:48	16:50	-2	1.201	101246858	30147292	200	500	150737	1.65(1.33-1.79)	
PCB-14											
222.0003	18:26	18:28	-2	0.928	143956666	40021865	171	427	234046		
223.9974	18:26	18:28	-2	0.928	87123655	23907292	200	500	119537	1.65(1.33-1.79)	
PCB-11											
222.0003	19:16	19:18	-2	0.970	134426111	36507497	171	427	213494		
223.9974	19:16	19:18	-2	0.970	81849149	22032348	200	500	110162	1.64(1.33-1.79)	
PCB-12											
222.0003	19:34	19:36	-2	0.985	291979442	50976617	171	427	298109		
223.9974	19:34	19:36	-2	0.985	176182677	30681308	200	500	153407	1.66(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:34	19:36	-2	0.985	291979442	50976617	171	427	298109		
223.9974	19:34	19:36	-2	0.985	176182677	30681308	200	500	153407	1.66(1.33-1.79)	
PCB-15											
222.0003	19:53	19:55	-2	1.001	167697265	43484521	171	427	254295		
223.9974	19:53	19:55	-2	1.001	102027353	26117852	200	500	130589	1.64(1.33-1.79)	
PCB-19L											
268.0016	17:05	17:08	-2	0.840	1885439	523334	413	1032	1267		
269.9986	17:05	17:08	-2	0.840	1749417	482039	572	1430	843	1.08(0.88-1.20)	
PCB-32L											
268.0016	20:20	20:23	-2		3079097	727986	413	1032	1763		
269.9986	20:20	20:23	-2		2822288	674645	572	1430	1179	1.09(0.88-1.20)	
PCB-31L											
268.0016	22:37	22:38	-2		8885777	2163995	743	1857	2913		
269.9986	22:37	22:38	-2		8430927	2037598	853	2132	2389	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:54	26:55	-1	1.190	8056279	1777948	743	1857	2393		
269.9986	26:54	26:55	-1	1.190	7496042	1667650	853	2132	1955	1.07(0.88-1.20)	
PCB-19											
255.9613	17:06	17:09	-2	1.001	48410130	13799356	148	370	93239		
257.9584	17:06	17:09	-2	1.001	46008898	13166279	147	367	89567	1.05(0.88-1.20)	
PCB-18											
255.9613	18:57	18:59	-2	1.109	139824358	27627938	148	370	186675		
257.9584	18:57	18:59	-2	1.109	133109032	26261185	147	367	178648	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:57	18:59	-2	1.109	139824358	27627938	148	370	186675		
257.9584	18:57	18:59	-2	1.109	133109032	26261185	147	367	178648	1.05(0.88-1.20)	
PCB-17											
255.9613	19:23	19:26	-2	1.135	47187181	12350370	148	370	83448		
257.9584	19:23	19:26	-2	1.135	44761246	11790273	147	367	80206	1.05(0.88-1.20)	
PCB-27											
255.9613	19:37	19:39	-2	1.148	74417782	19342754	148	370	130694		
257.9584	19:36	19:39	-2	1.147	70689772	18379713	147	367	125032	1.05(0.88-1.20)	
PCB-24											
255.9613	19:44	19:46	-2	1.155	67298387	17488546	148	370	118166		
257.9584	19:44	19:46	-2	1.155	63862672	16569281	147	367	112716	1.05(0.88-1.20)	
PCB-16											
255.9613	19:51	19:53	-2	1.162	44137761	11444386	148	370	77327		
257.9584	19:51	19:53	-2	1.162	41679056	10820033	147	367	73606	1.06(0.88-1.20)	
PCB-32											
255.9613	20:22	20:23	-2	1.192	72044656	18307746	148	370	123701		
257.9584	20:22	20:23	-2	1.192	68093533	17292993	147	367	117639	1.06(0.88-1.20)	
PCB-34											
255.9613	21:37	21:39	-2	1.265	192350519	49279483	91549	228872	538		
257.9584	21:37	21:39	-2	1.265	180995354	46313612	90410	226025	512	1.06(0.88-1.20)	
PCB-23											
255.9613	21:47	21:48	-2	1.274	179749458	46158887	91549	228872	504		
257.9584	21:47	21:48	-2	1.274	172788755	44383619	90410	226025	491	1.04(0.88-1.20)	
PCB-26											
255.9613	22:06	22:08	-2	1.293	398686324	83910875	91549	228872	917		
257.9584	22:06	22:08	-2	1.293	389532124	83741462	90410	226025	926	1.02(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:06	22:08	-2	1.293	398686324	83910875	91549	228872	917		
257.9584	22:06	22:08	-2	1.293	389532124	83741462	90410	226025	926	1.02(0.88-1.20)	
PCB-25											
255.9613	22:19	22:21	-2	0.829	222826290	52320592	91549	228872	572		
257.9584	22:19	22:21	-2	0.829	213500161	50247158	90410	226025	556	1.04(0.88-1.20)	
PCB-31											
255.9613	22:38	22:40	-2	0.841	192866238	49658665	91549	228872	542		
257.9584	22:38	22:40	-2	0.841	185555608	47756084	90410	226025	528	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-20											
255.9613	22:56	22:58	-2	0.853	426671973	83044052	91549	228872	907		
257.9584	22:56	22:58	-2	0.853	415782218	82778595	90410	226025	916	1.03(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:56	22:58	-2	0.853	426671973	83044052	91549	228872	907		
257.9584	22:56	22:58	-2	0.853	415782218	82778595	90410	226025	916	1.03(0.88-1.20)	
PCB-21											
255.9613	23:06	23:07	-1	0.859	380418482	50532557	91549	228872	552		M
257.9584	23:06	23:07	-2	0.858	368971251	48927783	90410	226025	541	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:06	23:07	-1	0.859	380418482	50532557	91549	228872	552		M
257.9584	23:06	23:07	-2	0.858	368971251	48927783	90410	226025	541	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:33	23:35	-2	0.875	203903665	51385849	91549	228872	561		
257.9584	23:33	23:35	-2	0.875	194884428	49338332	90410	226025	546	1.05(0.88-1.20)	
PCB-36											
255.9613	25:07	25:09	-2	0.933	189833401	41986793	91549	228872	459		
257.9584	25:07	25:09	-2	0.933	171666661	40424919	90410	226025	447	1.11(0.88-1.20)	
PCB-39											
255.9613	25:28	25:30	-2	0.947	201659782	46836641	91549	228872	512		
257.9584	25:28	25:30	-2	0.947	192974689	44712407	90410	226025	495	1.05(0.88-1.20)	
PCB-38											
255.9613	26:03	26:05	-2	0.968	196490344	44752898	91549	228872	489		
257.9584	26:03	26:05	-2	0.968	187332233	42937047	90410	226025	475	1.05(0.88-1.20)	
PCB-35											
255.9613	26:31	26:32	-1	0.986	190388812	44686478	91549	228872	488		
257.9584	26:31	26:32	-1	0.986	181187639	42609672	90410	226025	471	1.05(0.88-1.20)	
PCB-37											
255.9613	26:55	26:57	-2	1.000	191000617	42751493	91549	228872	467		
257.9584	26:55	26:57	-2	1.000	181528242	40748304	90410	226025	451	1.05(0.88-1.20)	
PCB-54L											
301.9626	20:10	20:12	-2	0.815	1410600	348536	93	232	3748		M
303.9597	20:10	20:12	-2	0.815	1783210	448882	67	167	6700	0.79(0.65-0.89)	M
PCB-52L											
301.9626	24:45	24:46	-2		3766633	836644	593	1482	1411		
303.9597	24:45	24:46	-2		4709337	1056827	610	1525	1733	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:40	33:41	-1	1.360	5053228	1038580	593	1482	1751		
303.9597	33:40	33:41	-1	1.360	6211473	1286399	610	1525	2109	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:13	34:14	-1	1.383	4996211	1018481	593	1482	1718		
303.9597	34:13	34:14	-1	1.383	6191180	1264068	610	1525	2072	0.81(0.65-0.89)	
PCB-54											
289.9224	20:12	20:13	-2	1.000	37405340	9622985	134	335	71813		
291.9194	20:12	20:13	-2	1.000	46870050	11943079	158	395	75589	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-50											
289.9224	22:23	22:24	-1	1.110	184304071	40095250	50155	125387	799		
291.9194	22:23	22:24	-1	1.110	240267900	52867577	59274	148185	892	0.77(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:24	-1	1.110	184304071	40095250	50155	125387	799		
291.9194	22:23	22:24	-1	1.110	240267900	52867577	59274	148185	892	0.77(0.65-0.89)	
PCB-45											
289.9224	23:06	23:08	-2	1.146	178079818	23872137	50155	125387	476		M
291.9194	23:06	23:08	-2	1.146	223614074	30348240	59274	148185	512	0.80(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:06	23:08	-2	1.146	178079818	23872137	50155	125387	476		M
291.9194	23:06	23:08	-2	1.146	223614074	30348240	59274	148185	512	0.80(0.65-0.89)	M
PCB-46											
289.9224	23:20	23:22	-2	1.157	69320314	16740575	50155	125387	334		
291.9194	23:20	23:22	-2	1.157	88649084	21569295	59274	148185	364	0.78(0.65-0.89)	
PCB-52											
289.9224	24:46	24:47	-1	1.228	93446718	22095055	50155	125387	441		
291.9194	24:46	24:47	-1	1.228	120720087	28630291	59274	148185	483	0.77(0.65-0.89)	
PCB-43											
289.9224	24:55	24:56	-2	1.235	211426036	29403027	50155	125387	586		Ma
291.9194	24:55	24:56	-2	1.235	277935156	38825342	59274	148185	655	0.76(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:55	24:56	-2	1.235	211426036	29403027	50155	125387	586		Ma
291.9194	24:55	24:56	-2	1.235	277935156	38825342	59274	148185	655	0.76(0.65-0.89)	M
PCB-49											
289.9224	25:12	25:14	-2	1.250	224774717	34859765	50155	125387	695		M
291.9194	25:12	25:14	-2	1.250	293974420	45955966	59274	148185	775	0.76(0.65-0.89)	M
PCB-69 (C49)											
289.9224	25:12	25:14	-2	1.250	224774717	34859765	50155	125387	695		M
291.9194	25:12	25:14	-2	1.250	293974420	45955966	59274	148185	775	0.76(0.65-0.89)	M
PCB-48											
289.9224	25:32	25:33	-1	1.266	84936034	19392315	50155	125387	387		
291.9194	25:32	25:33	-1	1.266	109454484	25127096	59274	148185	424	0.78(0.65-0.89)	
PCB-44											
289.9224	25:47	25:48	-1	1.279	337181148	64523331	50155	125387	1286		
291.9194	25:46	25:48	-2	1.278	436322824	81724856	59274	148185	1379	0.77(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:47	25:48	-1	1.279	337181148	64523331	50155	125387	1286		
291.9194	25:46	25:48	-2	1.278	436322824	81724856	59274	148185	1379	0.77(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:48	-1	1.279	337181148	64523331	50155	125387	1286		
291.9194	25:46	25:48	-2	1.278	436322824	81724856	59274	148185	1379	0.77(0.65-0.89)	
PCB-59											
289.9224	26:05	26:06	-2	1.293	415385228	65768771	50155	125387	1311		
291.9194	26:05	26:06	-2	1.293	537462959	82023096	59274	148185	1384	0.77(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-62 (C59)											
289.9224	26:05	26:06	-2	1.293	415385228	65768771	50155	125387	1311		
291.9194	26:05	26:06	-2	1.293	537462959	82023096	59274	148185	1384	0.77(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:05	26:06	-2	1.293	415385228	65768771	50155	125387	1311		
291.9194	26:05	26:06	-2	1.293	537462959	82023096	59274	148185	1384	0.77(0.65-0.89)	
PCB-42											
289.9224	26:17	26:18	-2	1.303	81689781	18571843	50155	125387	370		
291.9194	26:17	26:18	-2	1.303	105141799	24080056	59274	148185	406	0.78(0.65-0.89)	
PCB-40											
289.9224	26:47	26:48	-2	1.328	277234397	47517843	50155	125387	947		Ma
291.9194	26:47	26:48	-2	1.328	364045686	63156420	59274	148185	1066	0.76(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:47	26:48	-2	1.328	277234397	47517843	50155	125387	947		Ma
291.9194	26:47	26:48	-2	1.328	364045686	63156420	59274	148185	1066	0.76(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:47	26:48	-2	1.328	277234397	47517843	50155	125387	947		Ma
291.9194	26:47	26:48	-2	1.328	364045686	63156420	59274	148185	1066	0.76(0.65-0.89)	M
PCB-64											
289.9224	27:00	27:01	-1	1.339	116983650	26828099	50155	125387	535		
291.9194	27:00	27:01	-1	1.339	151328671	34988984	59274	148185	590	0.77(0.65-0.89)	
PCB-72											
289.9224	27:50	27:51	-1	0.827	113763062	25682704	50155	125387	512		
291.9194	27:50	27:51	-1	0.827	146273386	33256583	59274	148185	561	0.78(0.65-0.89)	
PCB-68											
289.9224	28:07	28:09	-2	0.835	131919696	27964582	50155	125387	558		
291.9194	28:07	28:09	-2	0.835	170847438	36510766	59274	148185	616	0.77(0.65-0.89)	
PCB-57											
289.9224	28:33	28:34	-1	0.848	113235321	25225776	50155	125387	503		
291.9194	28:33	28:34	-1	0.848	146417266	32725104	59274	148185	552	0.77(0.65-0.89)	
PCB-58											
289.9224	28:47	28:48	-1	0.855	145298829	31328835	50155	125387	625		
291.9194	28:47	28:48	-1	0.855	187628211	40707768	59274	148185	687	0.77(0.65-0.89)	
PCB-67											
289.9224	28:57	28:58	-1	0.860	152487042	31839299	50155	125387	635		
291.9194	28:57	28:58	-1	0.860	196576006	41472696	59274	148185	700	0.78(0.65-0.89)	
PCB-63											
289.9224	29:13	29:14	-1	0.868	113508185	24307267	50155	125387	485		
291.9194	29:13	29:14	-1	0.868	148202026	31811256	59274	148185	537	0.77(0.65-0.89)	
PCB-61											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-74 (C61)											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:33	29:34	-1	0.878	587333618	76819011	50155	125387	1532		
291.9194	29:33	29:34	-2	0.878	735282848	83523768	59274	148185	1409	0.80(0.65-0.89)	
PCB-66											
289.9224	29:52	29:53	-1	0.887	133135649	28380995	50155	125387	566		
291.9194	29:52	29:53	-1	0.887	173741660	37216184	59274	148185	628	0.77(0.65-0.89)	
PCB-55											
289.9224	30:02	30:03	-1	0.892	138556826	30598723	50155	125387	610		
291.9194	30:02	30:03	-1	0.892	179718078	39963320	59274	148185	674	0.77(0.65-0.89)	
PCB-56											
289.9224	30:32	30:33	-1	0.907	126483952	27609033	50155	125387	550		
291.9194	30:32	30:33	-1	0.907	163755997	35966266	59274	148185	607	0.77(0.65-0.89)	
PCB-60											
289.9224	30:45	30:46	-1	0.914	113992017	23957463	50155	125387	478		
291.9194	30:45	30:46	-1	0.914	148270202	31337130	59274	148185	529	0.77(0.65-0.89)	
PCB-80											
289.9224	31:10	31:11	-1	0.926	139046957	29819259	50155	125387	595		
291.9194	31:10	31:11	-1	0.926	178668230	38820797	59274	148185	655	0.78(0.65-0.89)	
PCB-79											
289.9224	32:42	32:42	0	0.971	154426670	31320343	50155	125387	624		
291.9194	32:42	32:42	0	0.971	199868828	40816688	59274	148185	689	0.77(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.988	113467309	23694400	50155	125387	472		
291.9194	33:15	33:15	0	0.988	146254900	30744591	59274	148185	519	0.78(0.65-0.89)	
PCB-81											
289.9224	33:41	33:42	-1	1.001	107771944	22576973	50155	125387	450		
291.9194	33:41	33:42	-1	1.001	138647822	29199662	59274	148185	493	0.78(0.65-0.89)	
PCB-77											
289.9224	34:15	34:16	-1	1.001	110855148	23436474	50155	125387	467		
291.9194	34:15	34:16	-1	1.001	143266988	30397880	59274	148185	513	0.77(0.65-0.89)	
PCB-104L											
337.9207	25:42	25:42	-1	0.813	4307701	910320	123	307	7401		
339.9178	25:41	25:42	-2	0.813	2668265	557097	85	212	6554	1.61(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		3752075	786809	123	307	6397		
339.9178	31:36	31:37	-1		2343492	489973	85	212	5764	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.147	7036968	1430234	4417	11042	324		
339.9178	36:15	36:15	0	1.147	4369848	885744	2498	6245	355	1.61(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6977058	1420821	4417	11042	322		
339.9178	36:34	36:34	0	1.157	4393847	880594	2498	6245	353	1.59(1.32-1.78)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-114L											
337.9207	37:06	37:06	0	1.174	7064640	1396573	4417	11042	316		
339.9178	37:05	37:06	-1	1.174	4410004	866573	2498	6245	347	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	0	1.194	6593584	1315083	4417	11042	298		
339.9178	37:44	37:45	0	1.194	4178254	831810	2498	6245	333	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		6873404	1319760	4417	11042	299		
339.9178	39:13	39:14	-1		4320131	844335	2498	6245	338	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:49	40:50	-1	1.292	6804853	1311983	4417	11042	297		
339.9178	40:49	40:50	-1	1.292	4293687	820299	2498	6245	328	1.58(1.32-1.78)	
PCB-104											
325.8804	25:42	25:44	-2	1.000	91641439	19929678	204	510	97695		
327.8775	25:42	25:44	-2	1.000	56952873	12327076	208	520	59265	1.61(1.32-1.78)	
PCB-96											
325.8804	26:05	26:06	-2	1.015	102542335	23072958	204	510	113103		
327.8775	26:05	26:06	-2	1.015	63175957	14145257	208	520	68006	1.62(1.32-1.78)	
PCB-103											
325.8804	28:01	28:02	-1	1.091	77236926	16910337	204	510	82894		
327.8775	28:01	28:02	-1	1.091	48027506	10390134	208	520	49953	1.61(1.32-1.78)	
PCB-94											
325.8804	28:14	28:16	-2	1.099	64361646	14100993	204	510	69123		
327.8775	28:14	28:16	-2	1.099	40042466	8717686	208	520	41912	1.61(1.32-1.78)	
PCB-95											
325.8804	28:41	28:42	-1	1.117	71189073	15374081	204	510	75363		
327.8775	28:41	28:42	-1	1.117	44561451	9459574	208	520	45479	1.60(1.32-1.78)	
PCB-93											
325.8804	28:54	28:55	-1	1.125	158361435	33130497	204	510	162404		
327.8775	28:54	28:55	-1	1.125	97310001	20216438	208	520	97194	1.63(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:54	28:55	-1	1.125	158361435	33130497	204	510	162404		
327.8775	28:54	28:55	-1	1.125	97310001	20216438	208	520	97194	1.63(1.32-1.78)	
PCB-98											
325.8804	29:03	29:04	-1	1.131	146632704	18581249	204	510	91085		
327.8775	29:03	29:04	-1	1.131	90464553	11494262	208	520	55261	1.62(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:03	29:04	-1	1.131	146632704	18581249	204	510	91085		
327.8775	29:03	29:04	-1	1.131	90464553	11494262	208	520	55261	1.62(1.32-1.78)	
PCB-88											
325.8804	29:33	29:33	-1	1.150	147628102	16750593	204	510	82111		
327.8775	29:33	29:33	-1	1.150	91202582	10353526	208	520	49777	1.62(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	147628102	16750593	204	510	82111		
327.8775	29:33	29:33	-1	1.150	91202582	10353526	208	520	49777	1.62(1.32-1.78)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-84											
325.8804	29:46	29:47	-2	1.158	62771900	13215233	204	510	64781		
327.8775	29:46	29:47	-2	1.158	38930080	8148115	208	520	39174	1.61(1.32-1.78)	
PCB-89											
325.8804	30:15	30:16	-1	1.177	65561089	13914881	204	510	68210		
327.8775	30:15	30:16	-1	1.177	40810265	8540278	208	520	41059	1.61(1.32-1.78)	
PCB-121											
325.8804	30:40	30:41	-1	1.194	117242210	25241857	204	510	123735		M
327.8775	30:40	30:41	-1	1.194	72252656	15416769	208	520	74119	1.62(1.32-1.78)	M
PCB-92											
325.8804	31:02	31:03	-1	0.856	73842228	15561985	204	510	76284		M
327.8775	31:02	31:03	-1	0.856	45192573	9580350	208	520	46059	1.63(1.32-1.78)	M
PCB-90											
325.8804	31:37	31:37	0	1.231	276731051	42024193	204	510	206001		
327.8775	31:37	31:37	0	1.231	169015519	25248630	208	520	121388	1.64(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	0	1.231	276731051	42024193	204	510	206001		
327.8775	31:37	31:37	0	1.231	169015519	25248630	208	520	121388	1.64(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	0	1.231	276731051	42024193	204	510	206001		
327.8775	31:37	31:37	0	1.231	169015519	25248630	208	520	121388	1.64(1.32-1.78)	
PCB-83											
325.8804	32:12	32:13	-1	1.253	148800636	19443457	204	510	95311		
327.8775	32:12	32:13	-1	1.253	92481077	11981942	208	520	57605	1.61(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:13	-1	1.253	148800636	19443457	204	510	95311		
327.8775	32:12	32:13	-1	1.253	92481077	11981942	208	520	57605	1.61(1.32-1.78)	
PCB-112											
325.8804	32:19	32:20	-1	1.258	123930141	25631489	204	510	125645		
327.8775	32:19	32:20	-1	1.258	76647864	15734390	208	520	75646	1.62(1.32-1.78)	
PCB-86											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-125 (C86)											M
325.8804	32:41	32:42	-1	1.272	646388537	77541249	204	510	380104		M
327.8775	32:41	32:42	-1	1.272	384843597	45992658	208	520	221119	1.68(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.301	291983408	37945601	204	510	186008		
327.8775	33:25	33:25	0	1.301	179160640	22995062	208	520	110553	1.63(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.301	291983408	37945601	204	510	186008		
327.8775	33:25	33:25	0	1.301	179160640	22995062	208	520	110553	1.63(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.301	291983408	37945601	204	510	186008		
327.8775	33:25	33:25	0	1.301	179160640	22995062	208	520	110553	1.63(1.32-1.78)	
PCB-110											
325.8804	33:36	33:37	-1	1.308	215889105	26218497	204	510	128522		
327.8775	33:36	33:37	-1	1.308	132363629	16037238	208	520	77102	1.63(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:36	33:37	-1	1.308	215889105	26218497	204	510	128522		
327.8775	33:36	33:37	-1	1.308	132363629	16037238	208	520	77102	1.63(1.32-1.78)	
PCB-82											
325.8804	33:54	33:55	-1	1.320	72783513	14579713	204	510	71469		
327.8775	33:54	33:55	-1	1.320	45306794	8962422	208	520	43089	1.61(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.336	106780366	21942785	204	510	107563		
327.8775	34:19	34:19	0	1.336	65893572	13465718	208	520	64739	1.62(1.32-1.78)	
PCB-120											
325.8804	34:46	34:47	-1	1.353	134486894	28035841	204	510	137431		
327.8775	34:46	34:47	-1	1.353	82570744	17174646	208	520	82570	1.63(1.32-1.78)	
PCB-108											
325.8804	35:54	35:55	-1	1.397	359691900	74837936	89870	224675	833		
327.8775	35:54	35:55	-1	1.397	217166378	44709148	54755	136887	817	1.66(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:54	35:55	-1	1.397	359691900	74837936	89870	224675	833		
327.8775	35:54	35:55	-1	1.397	217166378	44709148	54755	136887	817	1.66(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.407	172718968	33521584	89870	224675	373		
327.8775	36:09	36:09	0	1.407	107369316	20596508	54755	136887	376	1.61(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	160230112	33326256	89870	224675	371		
327.8775	36:16	36:16	0	1.001	98853143	20231964	54755	136887	369	1.62(1.32-1.78)	
PCB-106											
325.8804	36:22	36:23	-1	1.004	160067274	33627824	89870	224675	374		
327.8775	36:22	36:23	-1	1.004	99138673	20763420	54755	136887	379	1.61(1.32-1.78)	
PCB-118											
325.8804	36:35	36:36	-1	1.000	174825425	34549424	89870	224675	384		
327.8775	36:35	36:36	-1	1.000	108074624	21075996	54755	136887	385	1.62(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-122											
325.8804	36:56	36:56	0	1.010	133990253	27722160	89870	224675	308		
327.8775	36:56	36:56	0	1.010	83092925	17085468	54755	136887	312	1.61(1.32-1.78)	
PCB-114											
325.8804	37:07	37:08	-1	1.000	160312832	31933104	89870	224675	355		
327.8775	37:07	37:08	-1	1.000	99594354	19609628	54755	136887	358	1.61(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	162331124	32150026	89870	224675	358		
327.8775	37:46	37:46	0	1.001	101145196	19783101	54755	136887	361	1.60(1.32-1.78)	
PCB-127											
325.8804	39:14	39:15	0	1.040	162924856	32273840	89870	224675	359		
327.8775	39:14	39:15	0	1.040	101086266	19800348	54755	136887	362	1.61(1.32-1.78)	
PCB-126											
325.8804	40:51	40:52	-1	1.001	158585239	29099978	89870	224675	324		
327.8775	40:51	40:52	-1	1.001	98397742	17806698	54755	136887	325	1.61(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:23	-1	0.790	3375391	685626	73	182	9392		
373.8788	31:22	31:23	-1	0.790	2662518	549678	58	145	9477	1.27(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		4295640	816748	2233	5582	366		
373.8788	39:41	39:41	0		3322328	637083	1531	3827	416	1.29(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4754884	936530	2233	5582	419		
373.8788	41:56	41:56	0	0.982	3673590	727866	1531	3827	475	1.29(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	5249808	1001272	2233	5582	448		
373.8788	42:42	42:42	0	1.076	4046405	790891	1531	3827	517	1.30(1.05-1.43)	
PCB-156L											
371.8817	43:51	43:51	1	1.105	10141823	1376667	2233	5582	617		
373.8788	43:51	43:51	1	1.105	7862023	1069682	1531	3827	699	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:51	43:51	1	1.105	10141823	1376667	2233	5582	617		
373.8788	43:51	43:51	1	1.105	7862023	1069682	1531	3827	699	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	5216558	993155	2233	5582	445		
373.8788	47:05	47:05	0	1.186	4061824	784689	1531	3827	513	1.28(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	65706395	13562326	192	480	70637		
361.8385	31:24	31:25	-1	1.001	51356377	10648978	170	425	62641	1.28(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.007	71324068	14975190	192	480	77996		
361.8385	31:35	31:36	0	1.007	55992074	11665810	170	425	68622	1.27(1.05-1.43)	
PCB-150											
359.8415	31:45	31:46	-1	1.012	71628088	15006934	192	480	78161		
361.8385	31:45	31:46	-1	1.012	55762894	11615378	170	425	68326	1.28(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											
359.8415	32:07	32:08	-1	1.024	72449923	15091158	192	480	78600		
361.8385	32:07	32:08	-1	1.024	56265978	11739026	170	425	69053	1.29(1.05-1.43)	
PCB-145											
359.8415	32:24	32:25	-1	1.033	68489150	14361046	192	480	74797		
361.8385	32:24	32:25	-1	1.033	53482550	11300498	170	425	66474	1.28(1.05-1.43)	
PCB-148											
359.8415	33:56	33:57	-1	1.082	54371007	11316356	192	480	58939		
361.8385	33:56	33:57	-1	1.082	42774983	8842898	170	425	52017	1.27(1.05-1.43)	
PCB-135											
359.8415	34:31	34:32	-1	1.100	103820478	11980899	192	480	62401		M
361.8385	34:31	34:32	-1	1.100	81482346	9409403	170	425	55349	1.27(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:31	34:32	-1	1.100	103820478	11980899	192	480	62401		M
361.8385	34:31	34:32	-1	1.100	81482346	9409403	170	425	55349	1.27(1.05-1.43)	M
PCB-154											
359.8415	34:46	34:47	-1	1.109	58114683	12025446	192	480	62633		
361.8385	34:46	34:47	-1	1.109	45565308	9399698	170	425	55292	1.28(1.05-1.43)	
PCB-144											
359.8415	35:05	35:06	-1	1.118	54042862	11115878	192	480	57895		
361.8385	35:05	35:06	-1	1.118	42319176	8692370	170	425	51132	1.28(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	200483332	43211349	23763	59407	1818		
361.8385	35:27	35:27	0	1.130	156819559	33479555	15556	38890	2152	1.28(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	200483332	43211349	23763	59407	1818		
361.8385	35:27	35:27	0	1.130	156819559	33479555	15556	38890	2152	1.28(1.05-1.43)	
PCB-134											
359.8415	35:45	35:45	-1	1.139	162847019	17534351	23763	59407	738		
361.8385	35:45	35:45	-1	1.139	128294482	13724803	15556	38890	882	1.27(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:45	35:45	-1	1.139	162847019	17534351	23763	59407	738		
361.8385	35:45	35:45	-1	1.139	128294482	13724803	15556	38890	882	1.27(1.05-1.43)	
PCB-139											
359.8415	36:03	36:04	-1	1.149	195711517	37761228	23763	59407	1589		
361.8385	36:03	36:04	-1	1.149	153569020	29441667	15556	38890	1893	1.27(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:03	36:04	-1	1.149	195711517	37761228	23763	59407	1589		
361.8385	36:03	36:04	-1	1.149	153569020	29441667	15556	38890	1893	1.27(1.05-1.43)	
PCB-131											
359.8415	36:15	36:15	-1	1.155	81022824	16396532	23763	59407	690		
361.8385	36:15	36:15	-1	1.155	64182080	12983683	15556	38890	835	1.26(1.05-1.43)	
PCB-142											
359.8415	36:23	36:24	-1	1.160	82460255	17122833	23763	59407	721		
361.8385	36:23	36:24	-1	1.160	64992454	13576835	15556	38890	873	1.27(1.05-1.43)	

	Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-132											
	359.8415	36:42	36:43	-1	1.170	75403630	15508049	23763	59407	653	1.27(1.05-1.43)	
	361.8385	36:42	36:43	-1	1.170	59328853	12227459	15556	38890	786		
	PCB-133											
	359.8415	37:13	37:14	-1	1.186	82622143	16295272	23763	59407	686	1.27(1.05-1.43)	
	361.8385	37:13	37:14	-1	1.186	65107881	12852802	15556	38890	826		
	PCB-165											
	359.8415	37:37	37:37	0	0.881	106965169	21398791	23763	59407	901	1.27(1.05-1.43)	
	361.8385	37:37	37:37	0	0.881	84140799	16827523	15556	38890	1082		
	PCB-146											
	359.8415	37:52	37:52	-1	0.887	102556513	20464185	23763	59407	861	1.26(1.05-1.43)	
	361.8385	37:52	37:52	-1	0.887	81231392	16215939	15556	38890	1042		
	PCB-161											
	359.8415	37:59	38:00	0	0.890	122208045	25964884	23763	59407	1093	1.28(1.05-1.43)	
	361.8385	37:59	38:00	0	0.890	95738385	20221315	15556	38890	1300		
	PCB-153											
	359.8415	38:29	38:30	0	0.901	243532467	37310649	23763	59407	1570	1.28(1.05-1.43)	
	361.8385	38:29	38:30	0	0.901	190216690	28949635	15556	38890	1861		
	PCB-168 (C153)											
	359.8415	38:29	38:30	0	0.901	243532467	37310649	23763	59407	1570	1.28(1.05-1.43)	
	361.8385	38:29	38:30	0	0.901	190216690	28949635	15556	38890	1861		
	PCB-141											
	359.8415	38:40	38:41	-1	0.905	87183530	16663515	23763	59407	701	1.27(1.05-1.43)	
	361.8385	38:40	38:41	-1	0.905	68693132	13112195	15556	38890	843		
	PCB-130											
	359.8415	39:04	39:05	-1	0.915	70590154	14191917	23763	59407	597	1.26(1.05-1.43)	
	361.8385	39:04	39:05	-1	0.915	55845406	11226755	15556	38890	722		
	PCB-137											
	359.8415	39:18	39:18	0	0.920	81266004	16759642	23763	59407	705	1.26(1.05-1.43)	
	361.8385	39:18	39:18	0	0.920	64386158	13221507	15556	38890	850		
	PCB-164											
	359.8415	39:25	39:26	-1	0.923	110180720	21678450	23763	59407	912	1.27(1.05-1.43)	
	361.8385	39:25	39:26	-1	0.923	86456317	16986755	15556	38890	1092		
	PCB-129											
	359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
	361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M
	PCB-138 (C129)											
	359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
	361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M
	PCB-160 (C129)											
	359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
	361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M
	PCB-163 (C129)											
	359.8415	39:44	39:44	0	0.930	427397226	54463465	23763	59407	2292		M
	361.8385	39:44	39:44	0	0.930	336254921	42135505	15556	38890	2709	1.27(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	40:06	40:07	0	0.939	134649798	25747198	23763	59407	1084		
361.8385	40:06	40:07	0	0.939	105576017	20078467	15556	38890	1291	1.28(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	224532589	36841557	23763	59407	1550		
361.8385	40:57	40:57	0	0.959	176262841	28855584	15556	38890	1855	1.27(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	224532589	36841557	23763	59407	1550		
361.8385	40:57	40:57	0	0.959	176262841	28855584	15556	38890	1855	1.27(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	150673522	30877043	23763	59407	1299		
361.8385	41:58	41:58	0	0.983	118194096	24096899	15556	38890	1549	1.27(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	127518301	24165293	23763	59407	1017		
361.8385	42:15	42:15	0	0.990	100356891	18921603	15556	38890	1216	1.27(1.05-1.43)	
PCB-167											
359.8415	42:43	42:44	0	1.001	119669602	23770381	23763	59407	1000		
361.8385	42:43	42:44	0	1.001	94138110	18595971	15556	38890	1195	1.27(1.05-1.43)	
PCB-156											
359.8415	43:53	43:53	0	1.001	235593787	33821858	23763	59407	1423		
361.8385	43:53	43:53	0	1.001	186630098	26543048	15556	38890	1706	1.26(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:53	43:53	0	1.001	235593787	33821858	23763	59407	1423		
361.8385	43:53	43:53	0	1.001	186630098	26543048	15556	38890	1706	1.26(1.05-1.43)	
PCB-169											
359.8415	47:06	47:06	0	1.001	123900521	23210929	23763	59407	977		
361.8385	47:06	47:06	0	1.001	96925792	18089681	15556	38890	1163	1.28(1.05-1.43)	
PCB-188L											
405.8428	37:06	37:07	-1	0.820	3810326	749037	139	347	5389		
407.8398	37:06	37:07	-1	0.820	3630304	723097	71	177	10184	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:15	0		2912463	555051	139	347	3993		
407.8398	45:15	45:15	0		2653771	494294	71	177	6962	1.10(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	2282840	420841	139	347	3028		
407.8398	46:30	46:30	0	1.028	2121333	391359	71	177	5512	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.096	5686955	1057620	686	1715	1542		
407.8398	49:37	49:37	0	1.096	5360571	997675	1347	3367	741	1.06(0.89-1.21)	
PCB-188											
393.8025	37:07	37:08	-1	1.001	88590608	18021968	211	527	85412		
395.7995	37:07	37:08	-1	1.001	83467622	17002107	131	327	129787	1.06(0.89-1.21)	
PCB-179											
393.8025	37:27	37:28	-1	1.010	87088746	17711221	211	527	83939		
395.7995	37:27	37:28	-1	1.010	82206017	16754555	131	327	127897	1.06(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-184											
393.8025	37:59	38:00	0	1.024	89044754	17993333	211	527	85276		
395.7995	37:59	38:00	0	1.024	84535271	16957563	131	327	129447	1.05(0.89-1.21)	
PCB-176											
393.8025	38:20	38:21	-1	1.033	75912817	15207541	211	527	72074		
395.7995	38:20	38:21	-1	1.033	71908028	14408059	131	327	109985	1.06(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.046	94010378	18645621	211	527	88368		
395.7995	38:48	38:48	0	1.046	89347657	17743739	131	327	135448	1.05(0.89-1.21)	
PCB-178											
393.8025	40:10	40:11	-1	1.083	55938483	10960757	211	527	51947		
395.7995	40:10	40:11	-1	1.083	52592596	10324347	131	327	78812	1.06(0.89-1.21)	
PCB-175											
393.8025	40:48	40:49	-1	1.100	58681950	11492981	211	527	54469		
395.7995	40:48	40:49	-1	1.100	55852897	10954619	131	327	83623	1.05(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	69711534	13878901	211	527	65777		
395.7995	41:05	41:05	0	1.107	65998621	13174139	131	327	100566	1.06(0.89-1.21)	
PCB-182											
393.8025	41:17	41:18	-1	1.113	58163539	11271541	211	527	53420		
395.7995	41:17	41:18	-1	1.113	55170035	10674555	131	327	81485	1.05(0.89-1.21)	
PCB-183											
393.8025	41:42	41:42	0	1.124	117147097	12359720	211	527	58577		Ma
395.7995	41:42	41:42	0	1.124	109695368	11725491	131	327	89508	1.07(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:42	41:42	0	1.124	117147097	12359720	211	527	58577		Ma
395.7995	41:42	41:42	0	1.124	109695368	11725491	131	327	89508	1.07(0.89-1.21)	M
PCB-174											
393.8025	41:56	41:56	0	1.130	61920573	12119925	211	527	57440		
395.7995	41:56	41:56	0	1.130	58857494	11538299	131	327	88079	1.05(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	59424413	11026805	211	527	52260		
395.7995	42:21	42:22	-1	1.142	56441168	10389883	131	327	79312	1.05(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	59210779	11665013	211	527	55284		
395.7995	42:45	42:45	0	1.152	56007586	11011195	131	327	84055	1.06(0.89-1.21)	
PCB-171											
393.8025	42:58	42:59	0	1.158	114380196	20149365	211	527	95495		
395.7995	42:58	42:59	0	1.158	108415012	19154811	131	327	146220	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:59	0	1.158	114380196	20149365	211	527	95495		
395.7995	42:58	42:59	0	1.158	108415012	19154811	131	327	146220	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	50296390	9575285	211	527	45381		
395.7995	44:37	44:37	0	0.899	48184037	9183355	131	327	70102	1.04(0.89-1.21)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-192											
393.8025	44:54	44:54	0	0.905	84437333	16501621	211	527	78207		
395.7995	44:54	44:54	0	0.905	79991603	15661179	131	327	119551	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	147423551	20060533	211	527	95074		
395.7995	45:14	45:14	0	0.912	139888927	19041659	131	327	145356	1.05(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	147423551	20060533	211	527	95074		
395.7995	45:14	45:14	0	0.912	139888927	19041659	131	327	145356	1.05(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.919	80941413	15733877	211	527	74568		
395.7995	45:37	45:37	0	0.919	75977242	14856059	131	327	113405	1.07(0.89-1.21)	
PCB-170											
393.8025	46:31	46:32	0	0.938	53503962	10206837	211	527	48374		
395.7995	46:31	46:32	0	0.938	50804365	9646203	131	327	73635	1.05(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	81369215	15287669	211	527	72453		
395.7995	47:02	47:02	0	0.948	76983210	14562171	131	327	111162	1.06(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.000	112922183	21964048	3458	8645	6352		
395.7995	49:38	49:38	0	1.000	108477497	21166671	3184	7960	6648	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:28	42:28	0	0.821	2498219	475987	64	160	7437		
441.8008	42:28	42:28	0	0.821	2801438	526051	121	302	4348	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:43	51:43	0		3592214	660804	196	490	3371		
441.8008	51:43	51:43	1		3885779	721433	169	422	4269	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:11	0	1.009	4229058	753316	196	490	3843		
441.8008	52:11	52:11	0	1.009	4594231	825501	169	422	4885	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	54297981	10483901	148	370	70837		
429.7606	42:29	42:29	0	1.001	60538224	11651819	127	317	91747	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:25	0	1.022	49654885	9560253	148	370	64596		
429.7606	43:24	43:25	0	1.022	55095929	10561452	127	317	83161	0.90(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	52752859	10231485	148	370	69132		
429.7606	44:05	44:05	0	1.038	58357176	11309996	127	317	89055	0.90(0.76-1.02)	
PCB-197											
427.7635	44:19	44:19	0	1.044	56582273	10830269	148	370	73177		
429.7606	44:19	44:19	0	1.044	63095428	12039340	127	317	94798	0.90(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	50924709	10079933	148	370	68108		
429.7606	44:25	44:25	0	1.046	56418474	11160492	127	317	87878	0.90(0.76-1.02)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-198											
427.7635	47:12	47:12	0	1.112	89927644	11538109	148	370	77960		
429.7606	47:12	47:12	0	1.112	100138810	12784556	127	317	100666	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	89927644	11538109	148	370	77960		
429.7606	47:12	47:12	0	1.112	100138810	12784556	127	317	100666	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.917	38498870	7361120	148	370	49737		
429.7606	47:53	47:53	0	0.917	42578105	8018111	127	317	63135	0.90(0.76-1.02)	
PCB-203											
427.7635	48:05	48:05	0	0.921	46981287	8847805	148	370	59782		
429.7606	48:05	48:05	0	0.921	51712560	9816492	127	317	77295	0.91(0.76-1.02)	
PCB-195											
427.7635	49:24	49:23	1	0.947	72820219	13840162	2371	5927	5837		
429.7606	49:24	49:23	1	0.947	81327625	15453088	3297	8242	4687	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	81740556	15676873	2371	5927	6612		
429.7606	51:44	51:44	0	0.991	91827173	17696528	3297	8242	5367	0.89(0.76-1.02)	
PCB-205											
427.7635	52:13	52:13	0	1.000	93687224	17590743	2371	5927	7419		
429.7606	52:13	52:13	0	1.000	104944384	19787457	3297	8242	6002	0.89(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	3260539	614013	931	2327	660		
475.7619	49:08	49:09	0	0.950	4015145	752424	560	1400	1344	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:56	53:57	0	1.043	2334750	421215	931	2327	452		
475.7619	53:56	53:57	0	1.043	2861733	516695	560	1400	923	0.82(0.65-0.89)	
PCB-208											
461.7246	49:10	49:10	0	1.001	73033644	14091736	3209	8022	4391		
463.7216	49:10	49:10	0	1.001	93621692	18104805	3040	7600	5956	0.78(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	74939361	14301127	3209	8022	4457		
463.7216	50:05	50:05	0	1.019	96043653	18416076	3040	7600	6058	0.78(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	58039089	10750763	3209	8022	3350		M
463.7216	53:58	53:58	0	1.000	74588363	13891142	3040	7600	4569	0.78(0.65-0.89)	M
PCB-209L											
507.7258	55:35	55:34	1	1.075	2043151	345671	197	492	1755		
509.7229	55:35	55:34	1	1.075	2859018	491621	78	195	6303	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:35	55:36	0	1.000	44895758	7820681	72	180	108621		
497.6826	55:35	55:36	0	1.000	64330706	11324650	62	155	182656	0.70(0.59-0.79)	

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

## Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

61L51668P\_00006

Amount Added: 20.00

Units: uL

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

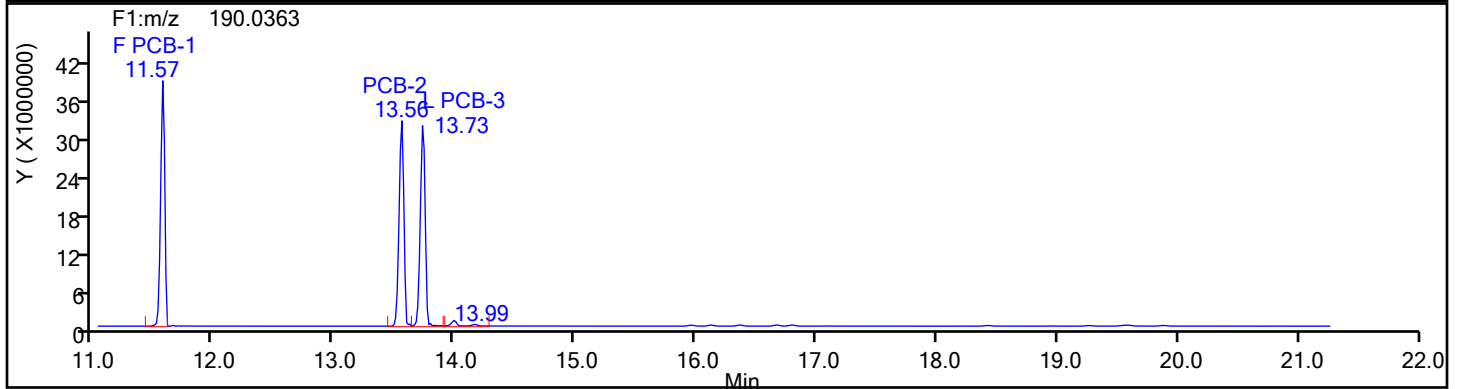
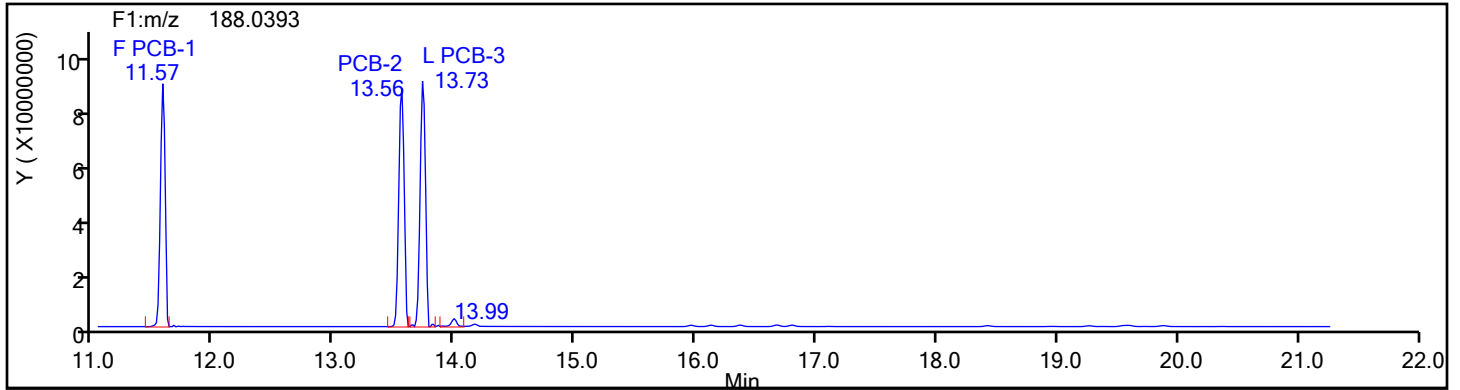
Worklist#: 87130

Sample Line#: 6

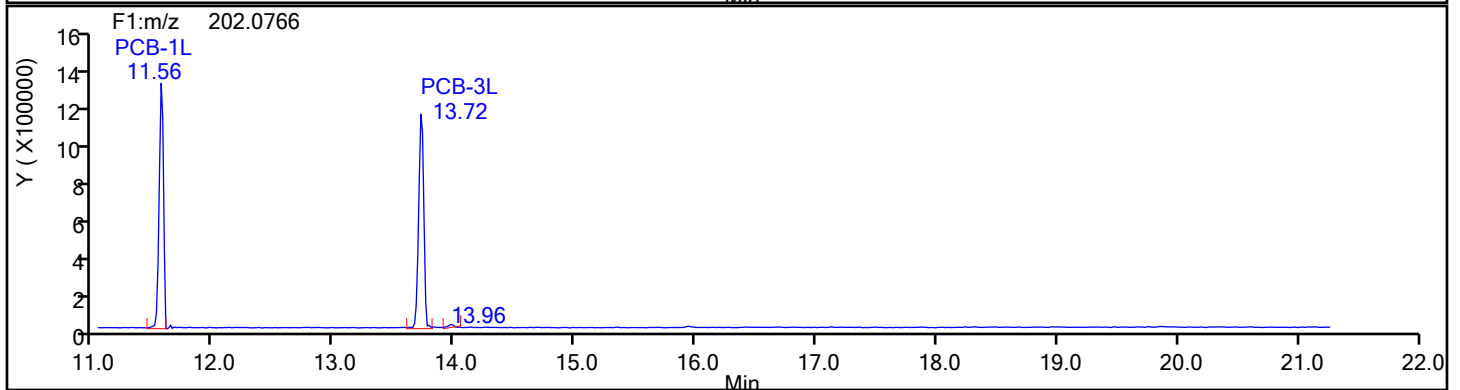
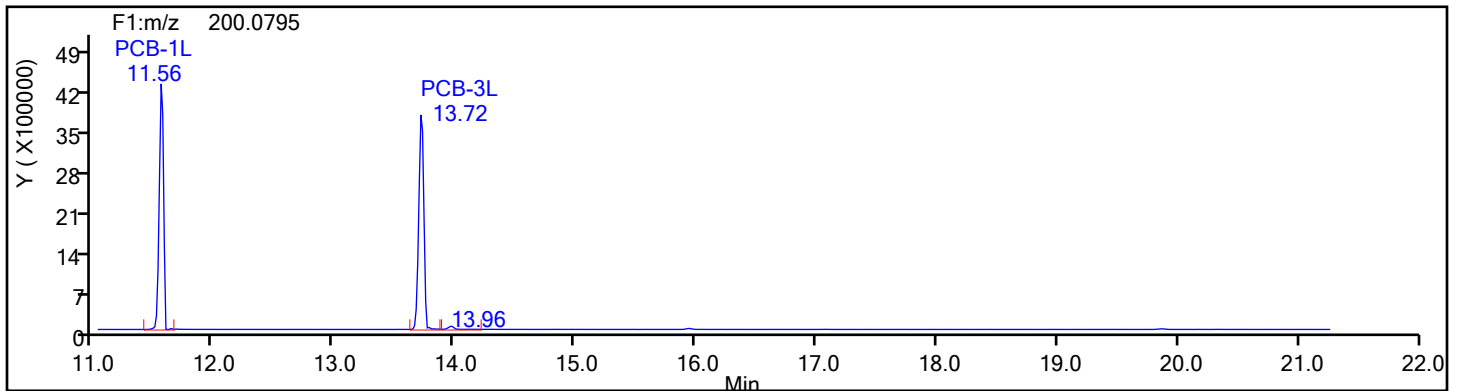
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

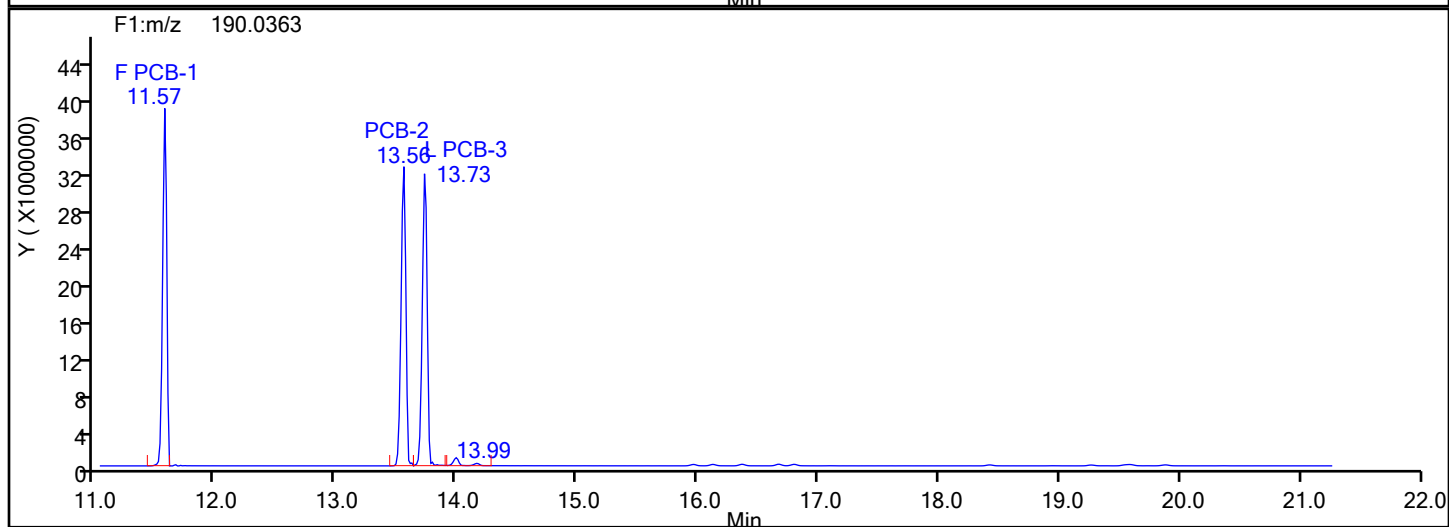
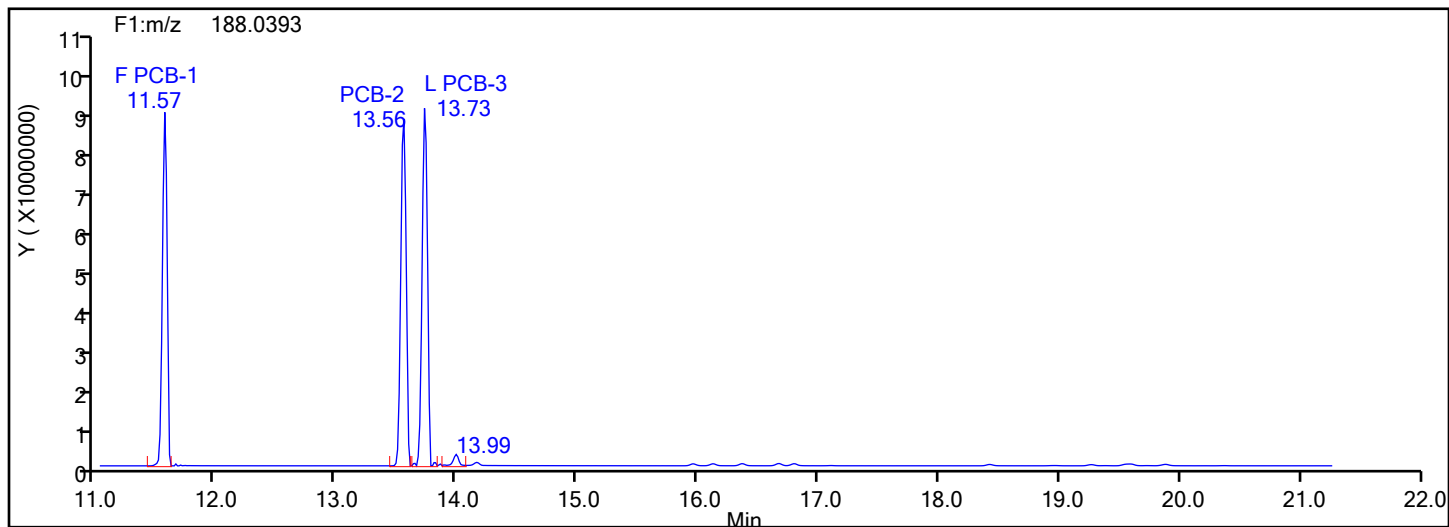
Worklist#: 87130

Sample Line#: 6

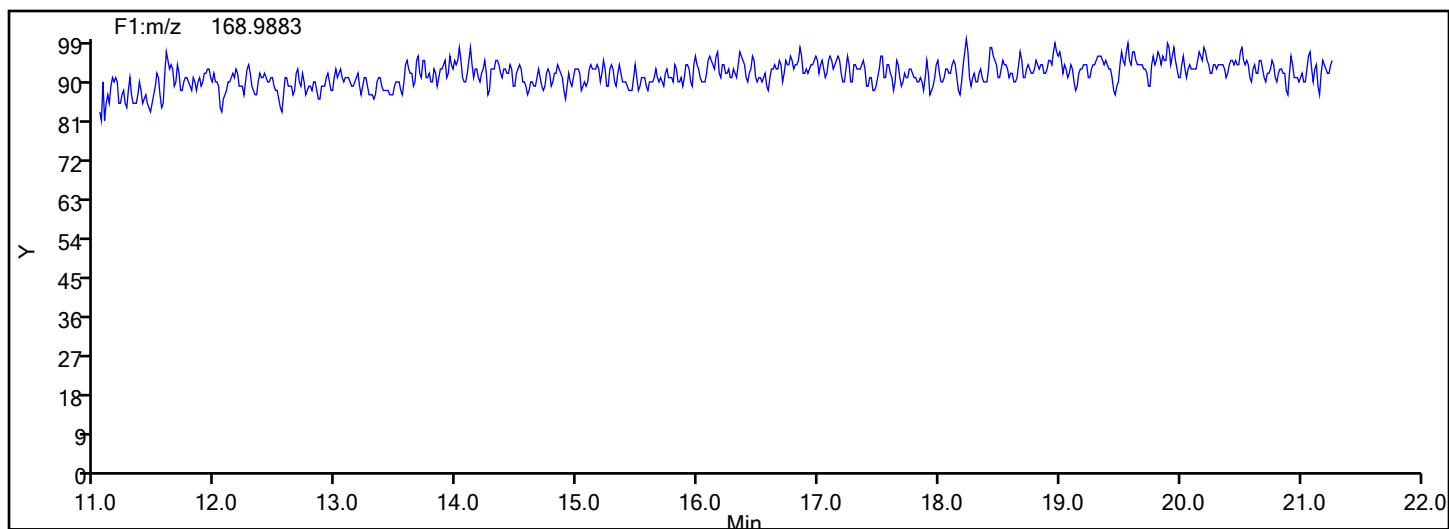
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

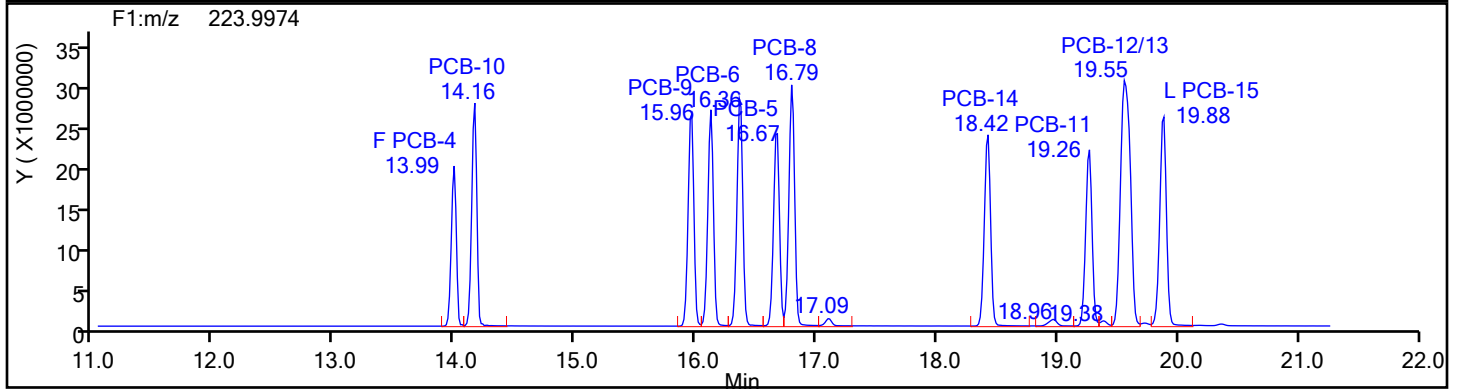
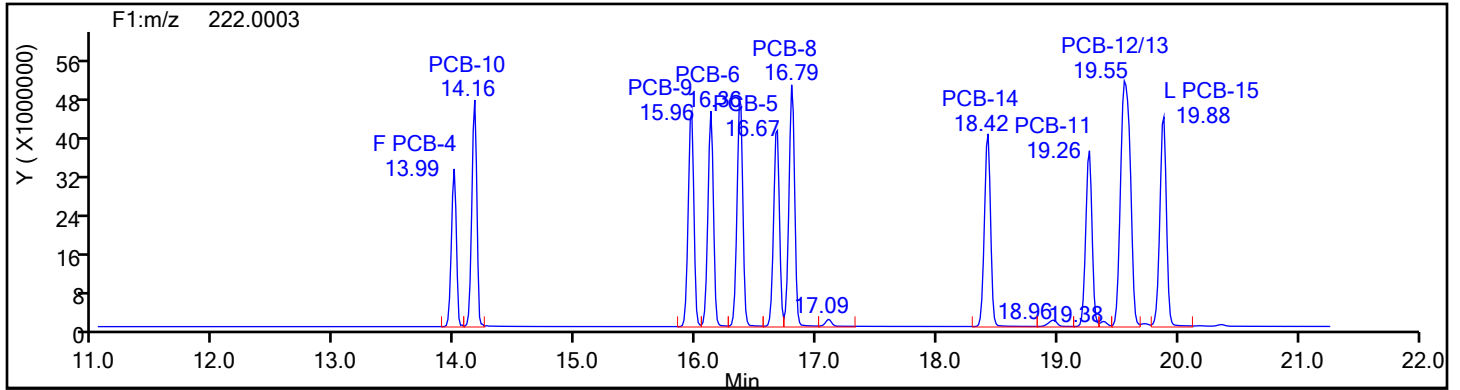
Worklist#: 87130

Sample Line#: 6

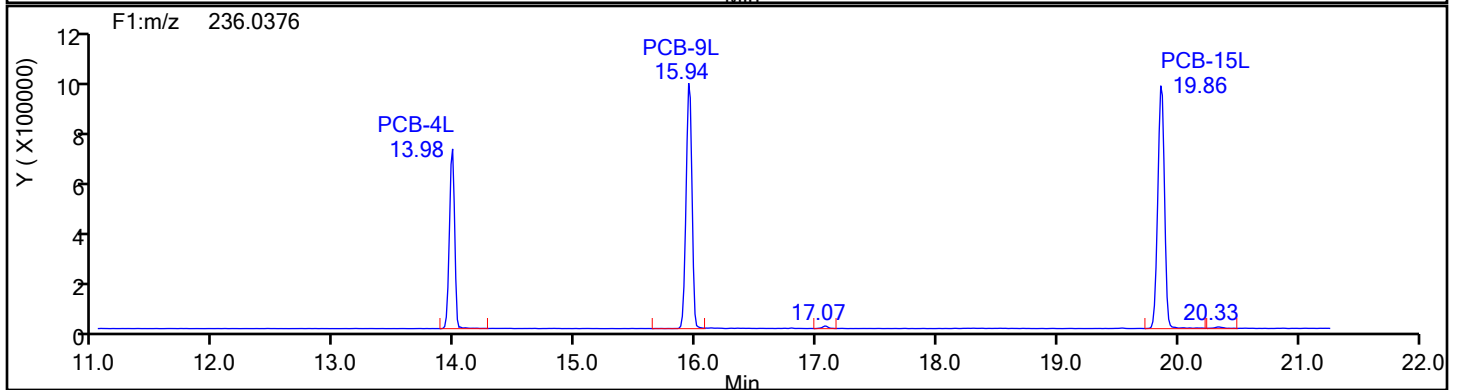
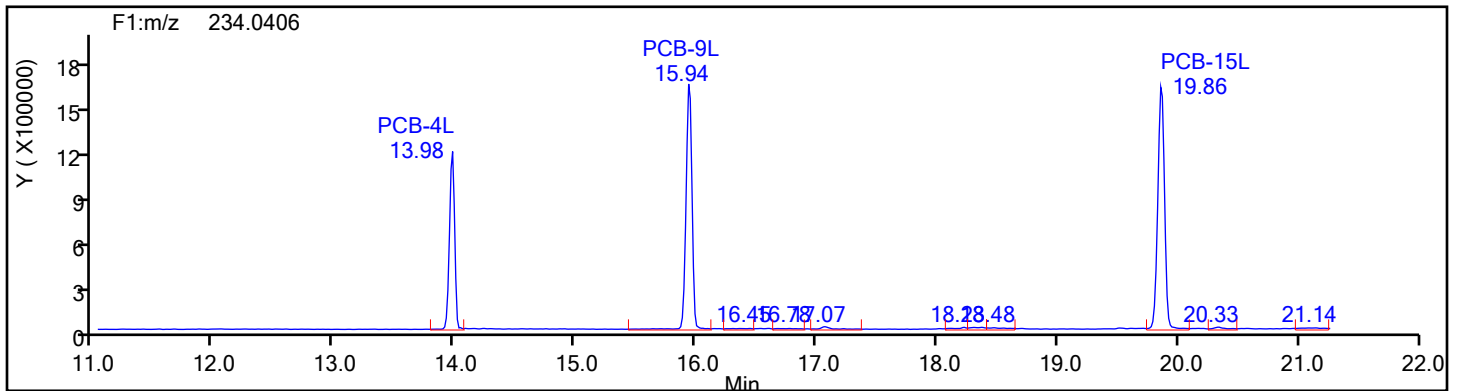
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

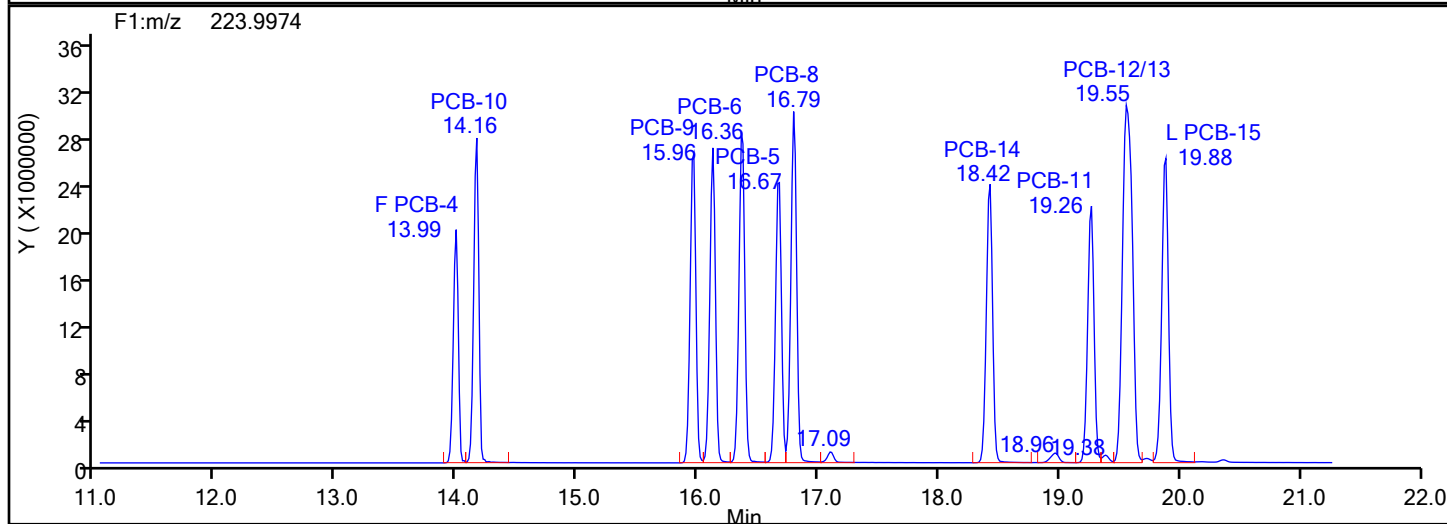
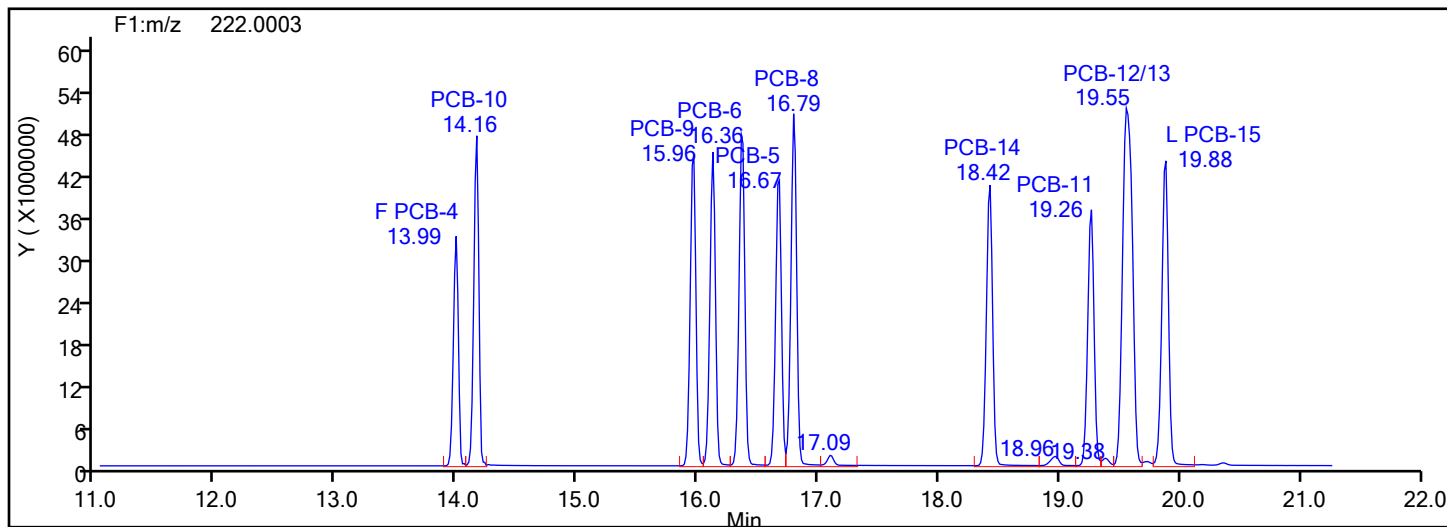
Worklist#: 87130

Sample Line#: 6

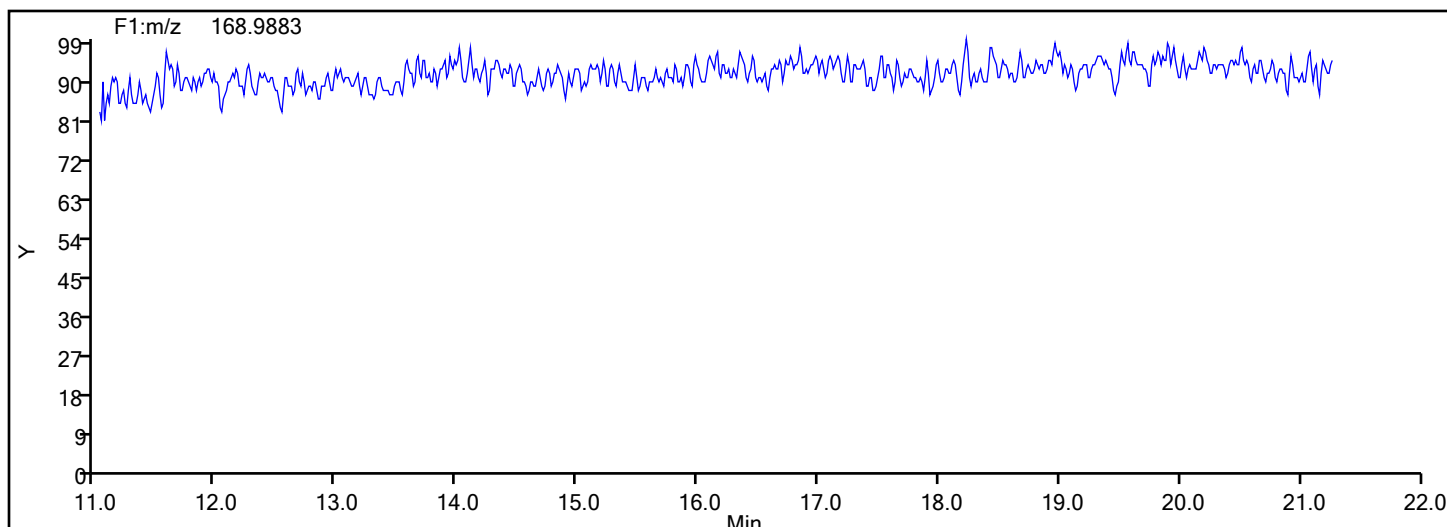
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

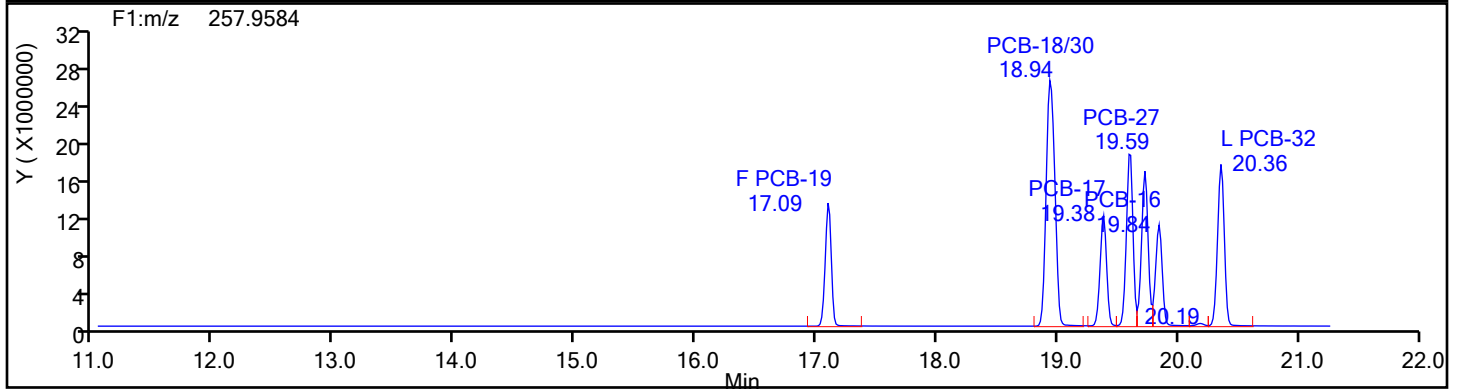
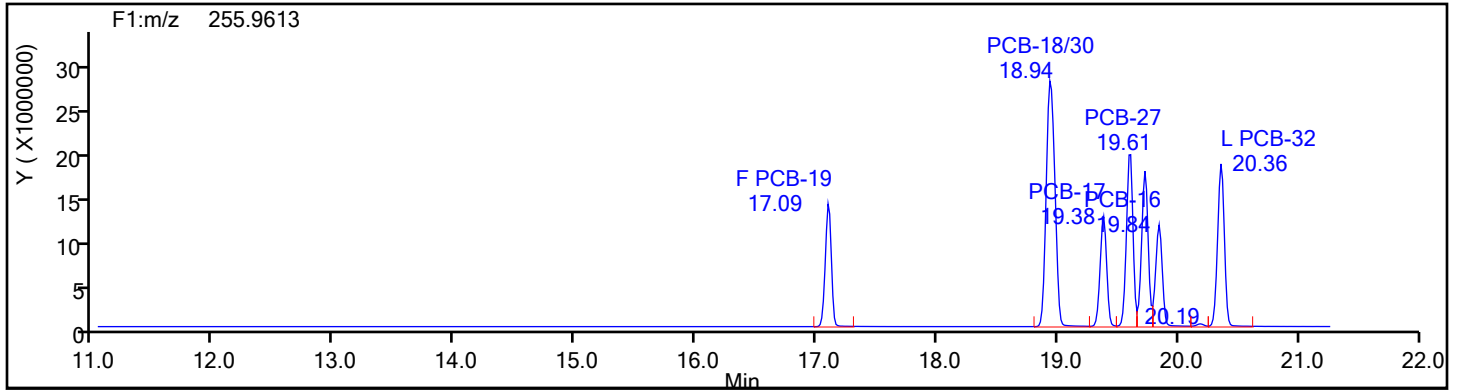
Worklist#: 87130

Sample Line#: 6

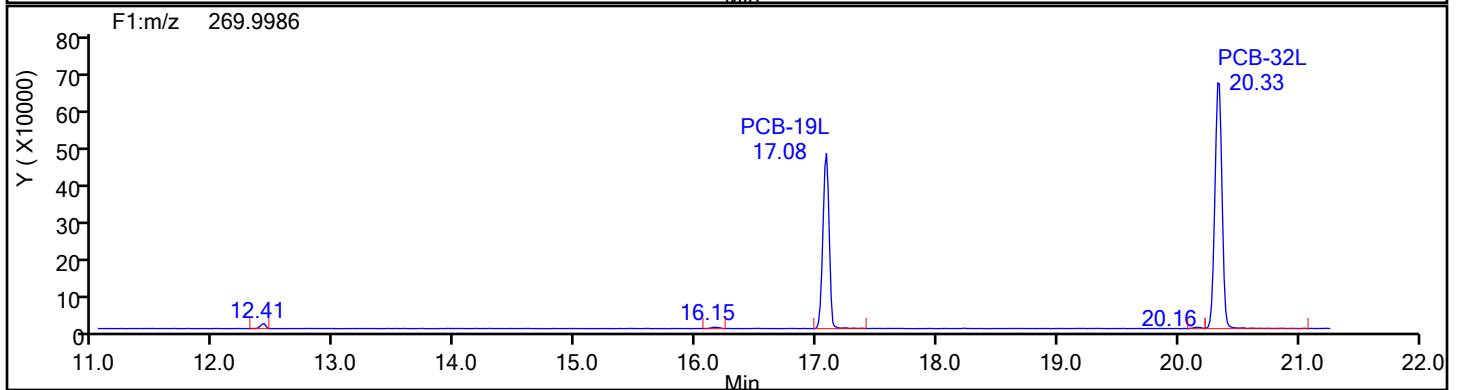
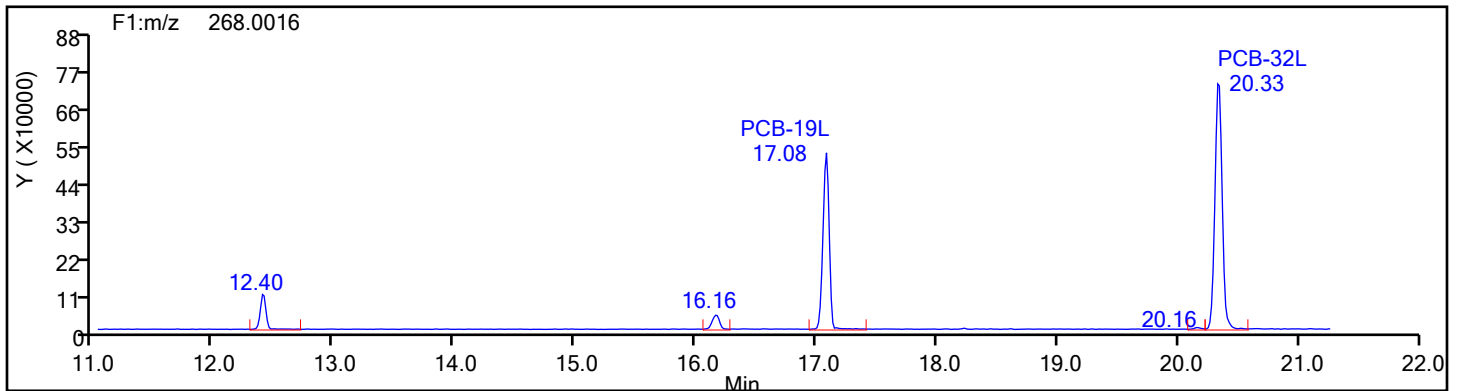
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

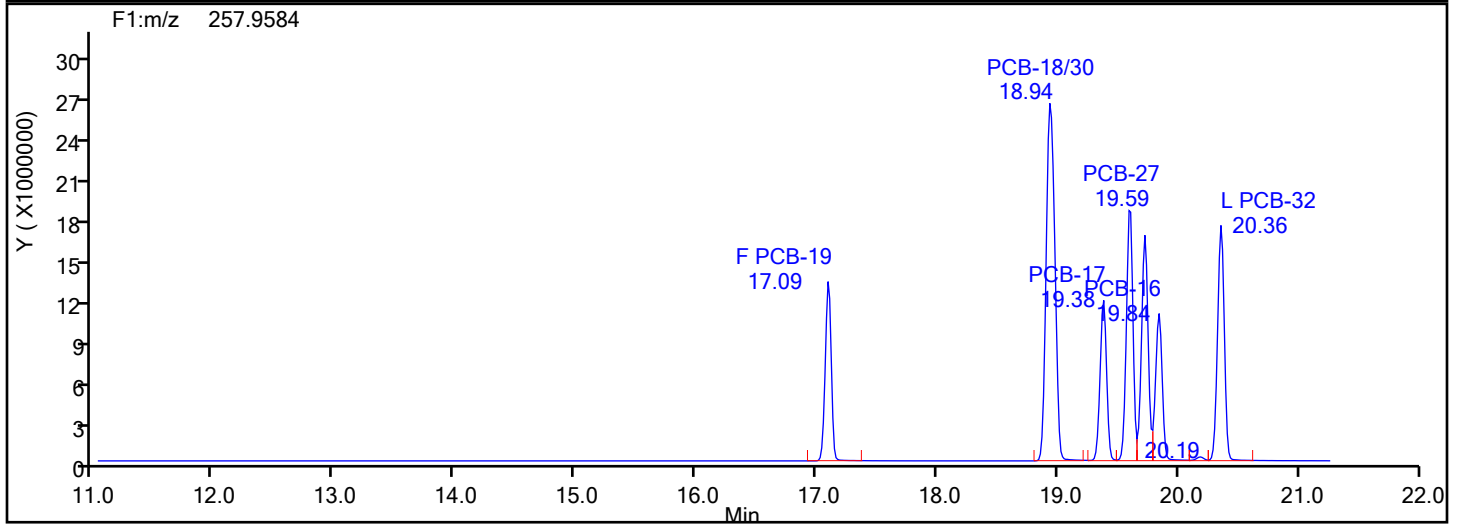
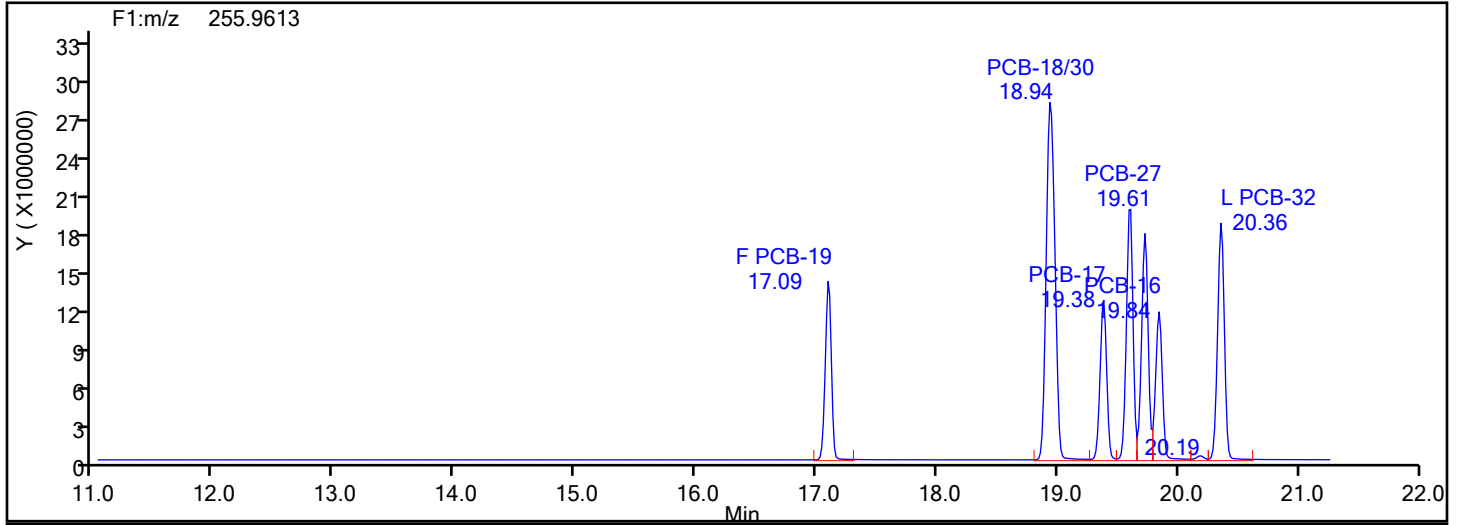
Worklist#: 87130

Sample Line#: 6

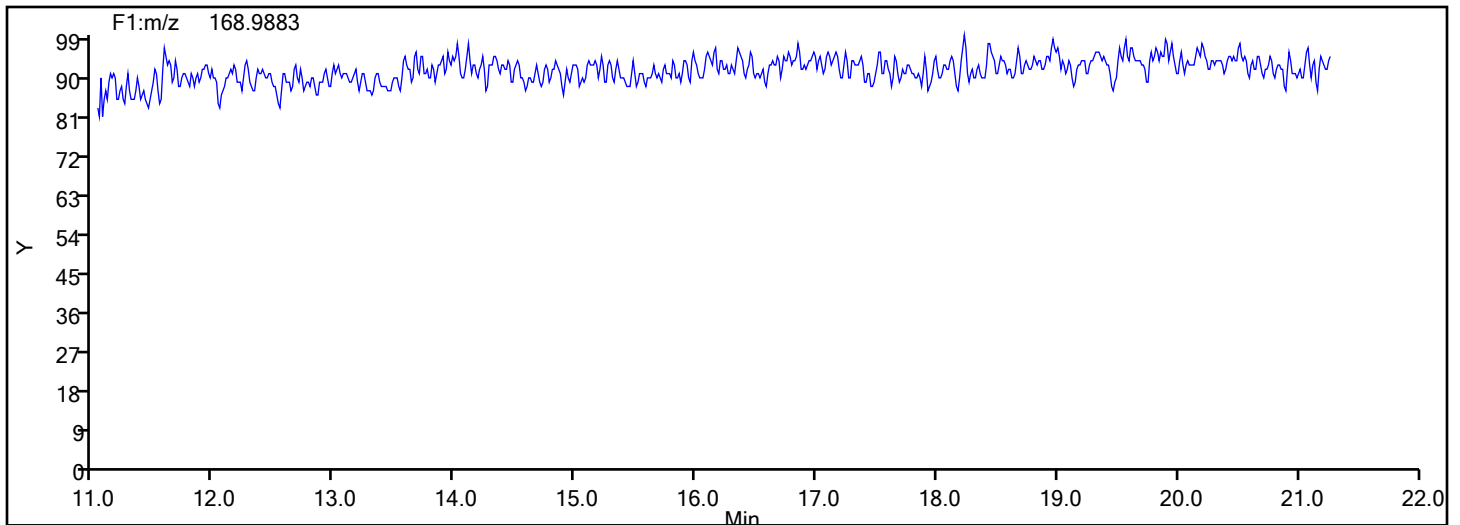
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

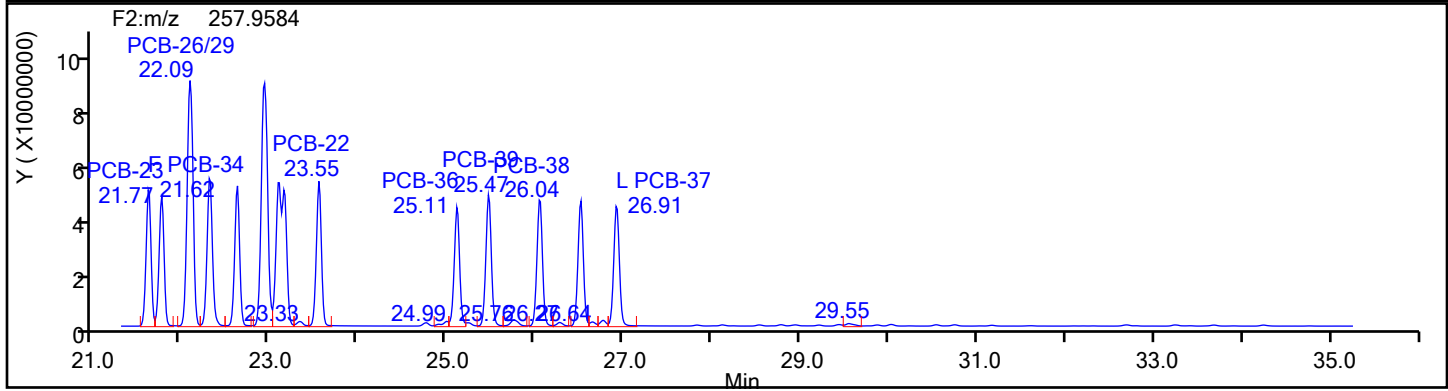
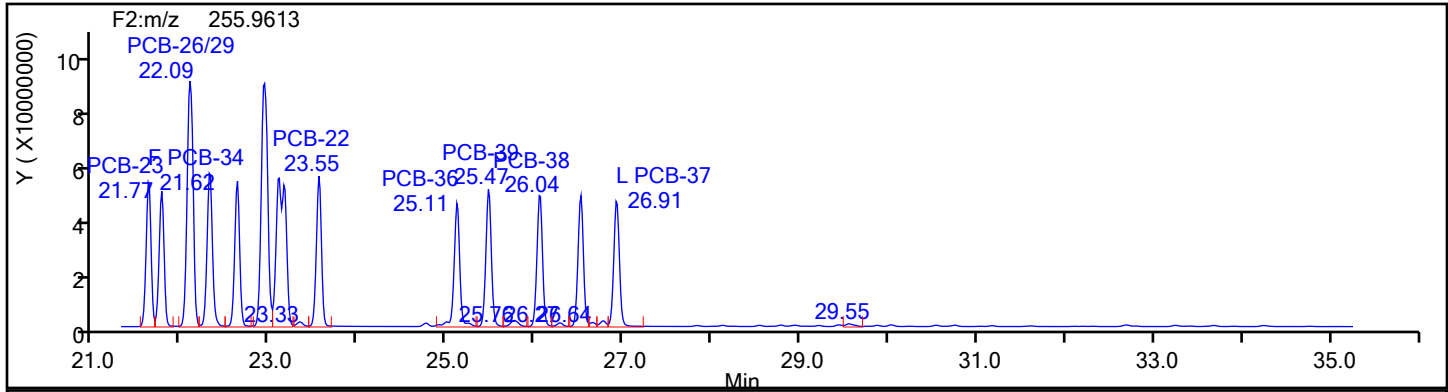
Worklist#: 87130

Sample Line#: 6

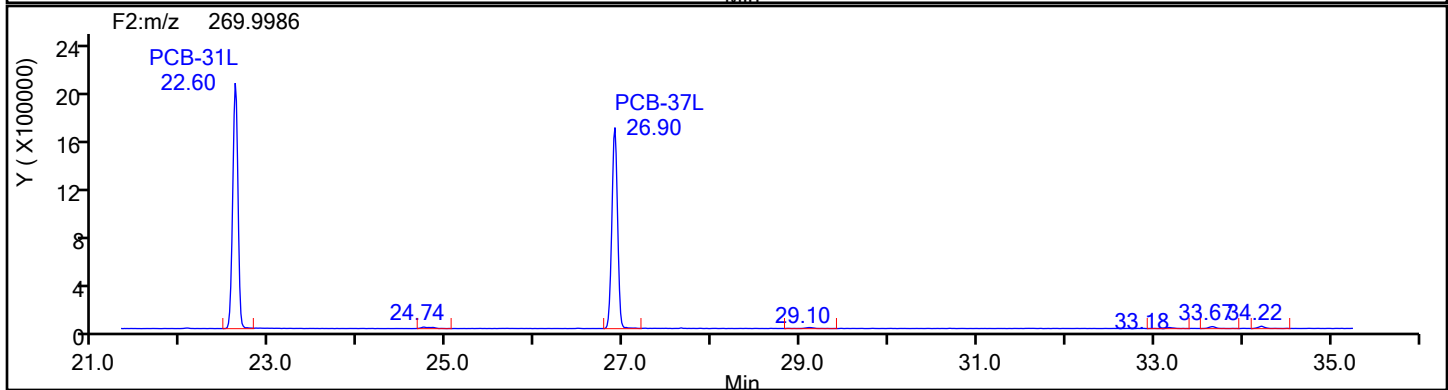
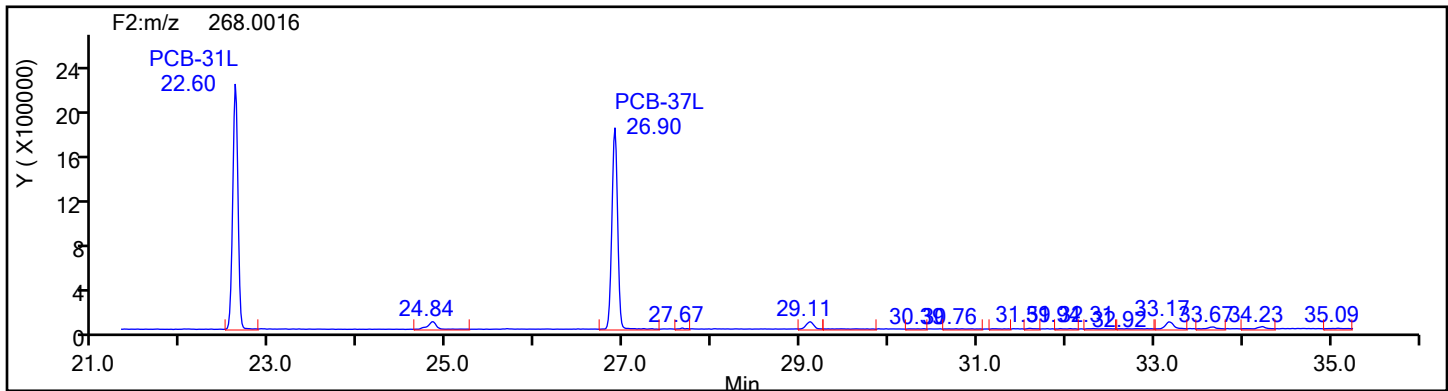
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

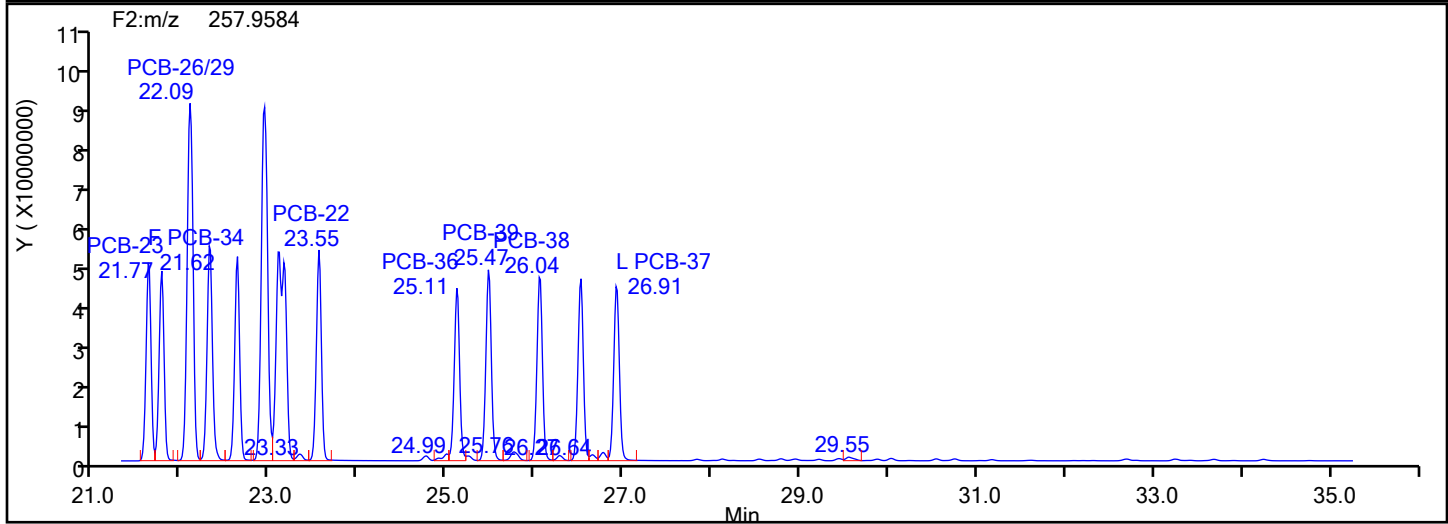
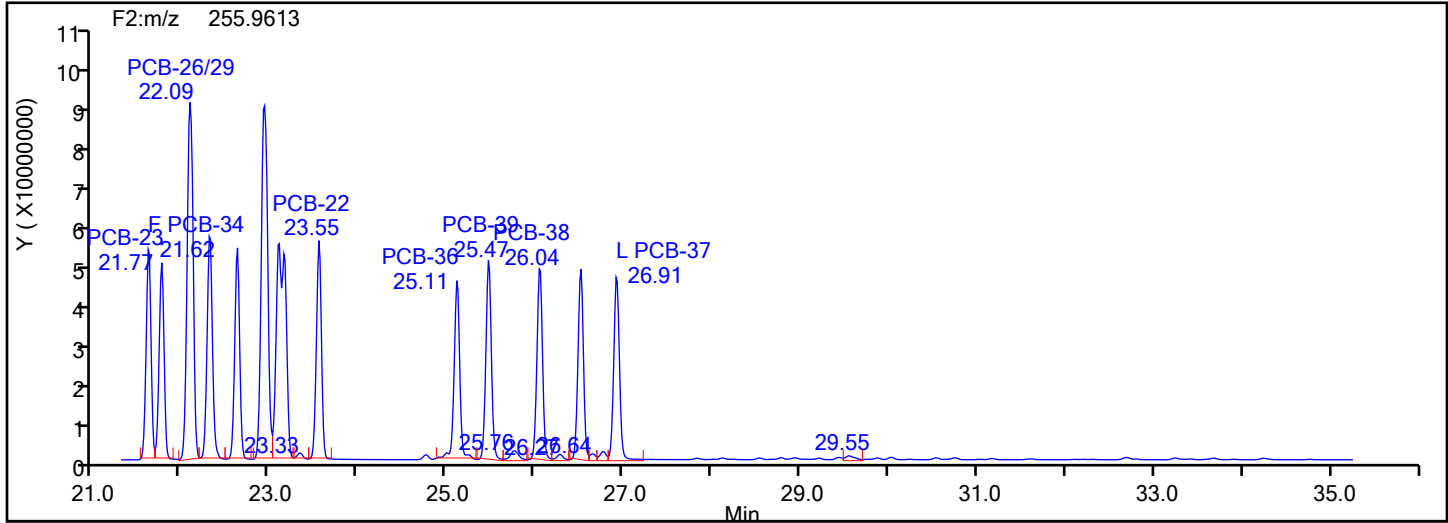
Worklist#: 87130

Sample Line#: 6

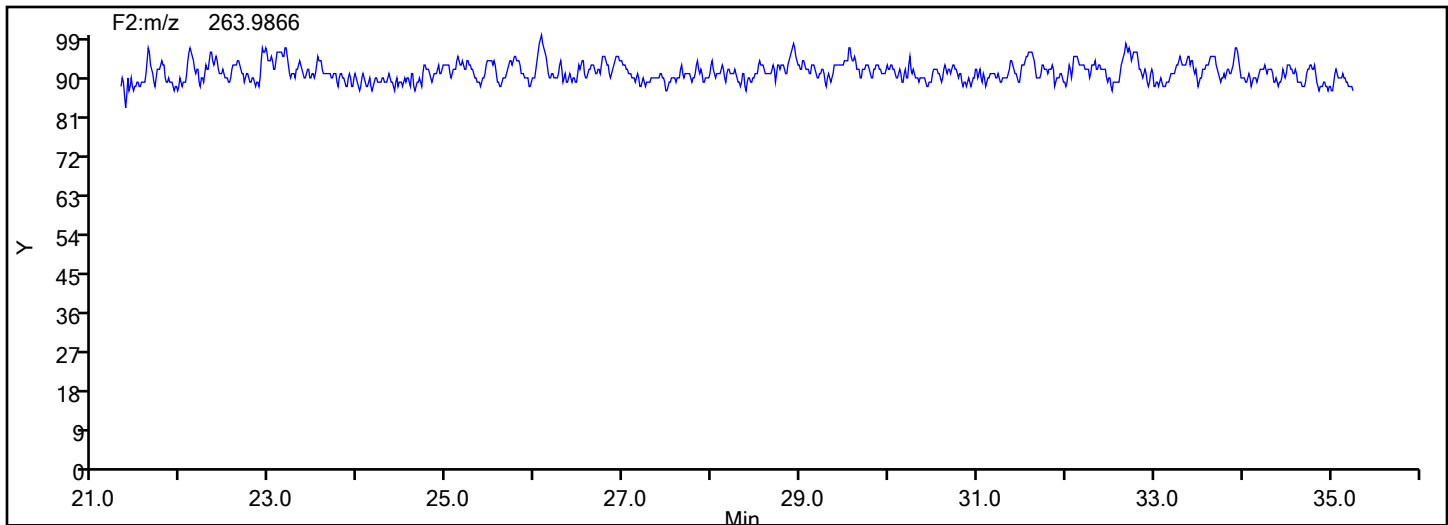
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

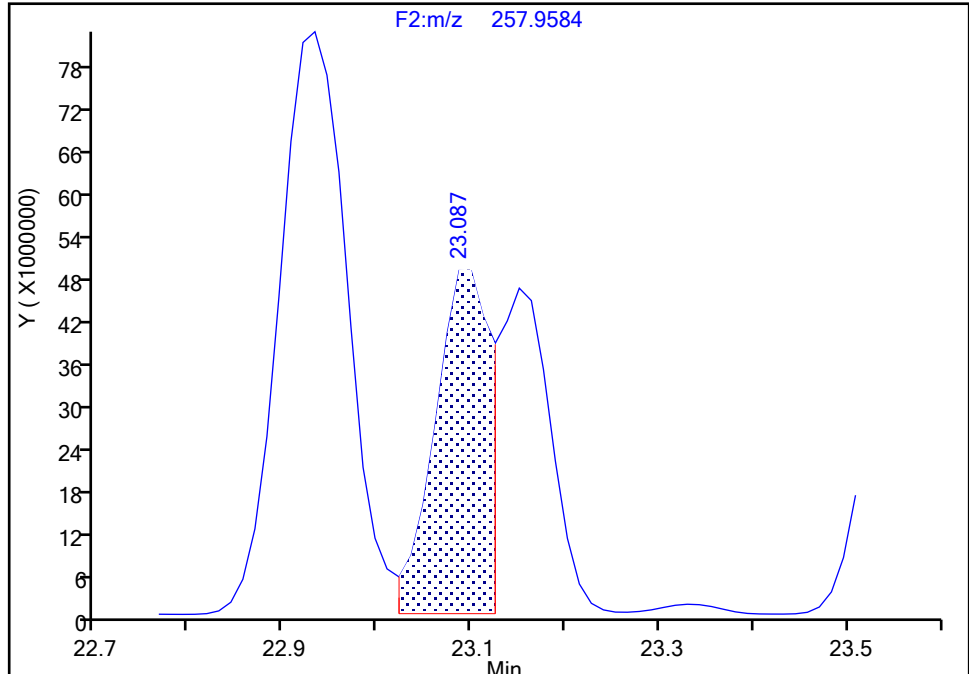
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**PCB-21/33, CAS: STL01800**

Signal: 2

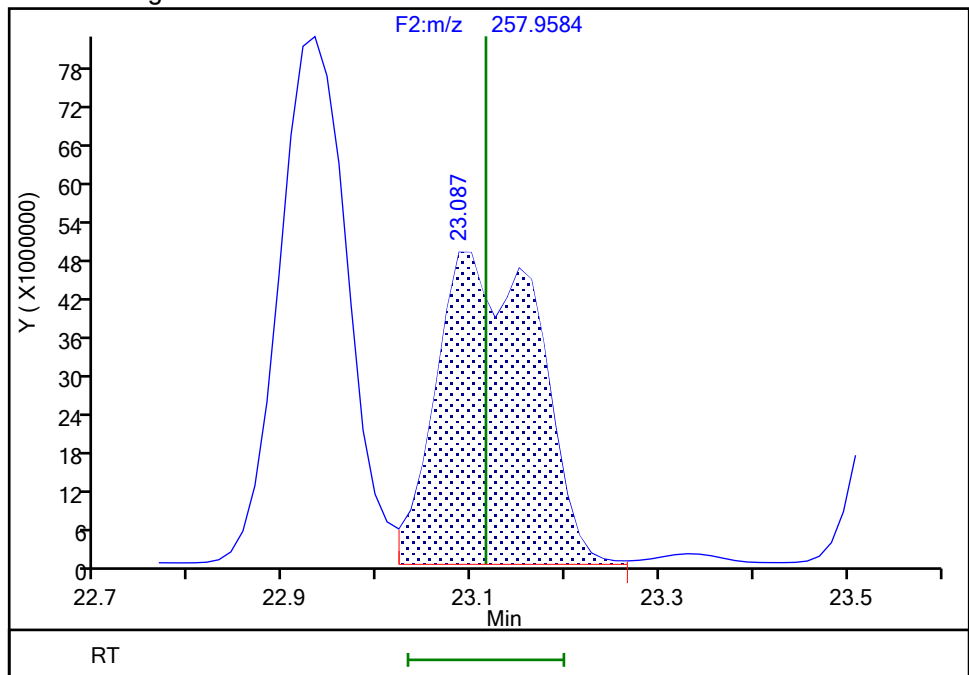
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Amount: 2587.0057  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.09  
Area: 368971251  
Amount: 4484.0654  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

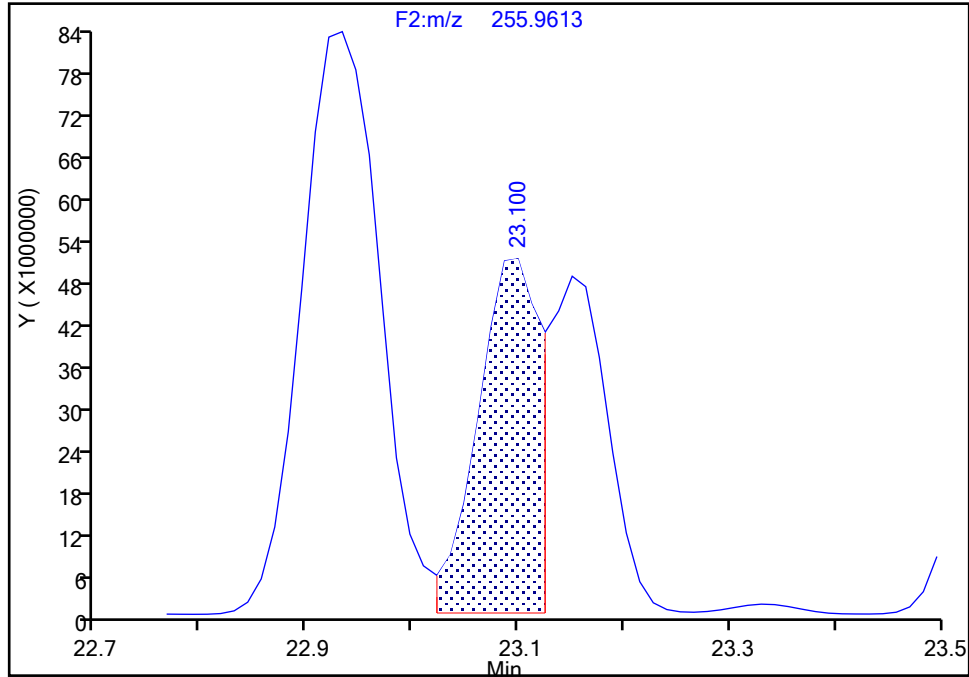
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

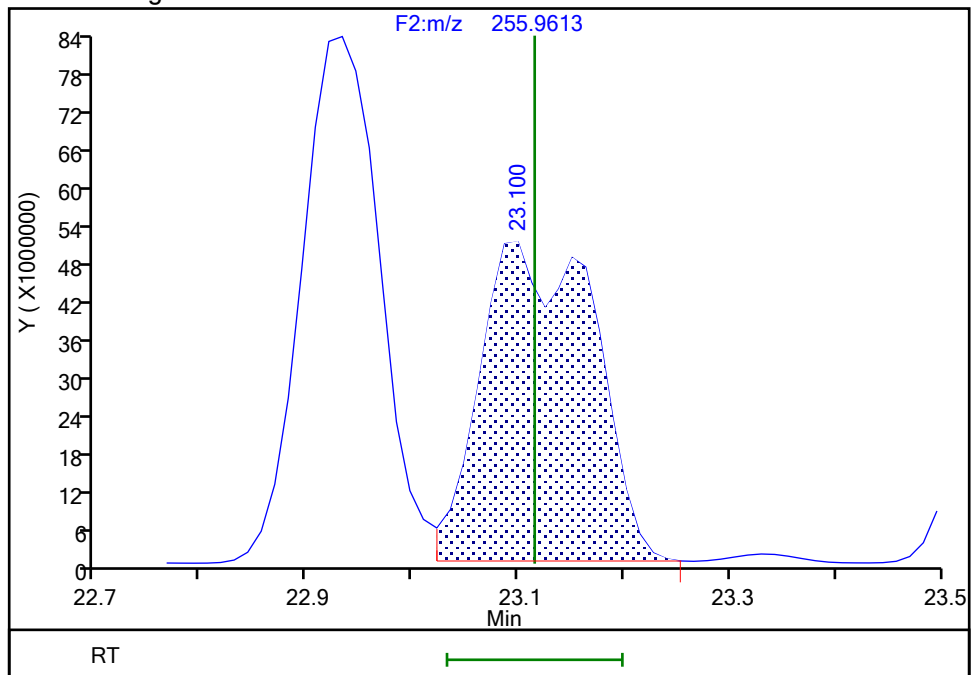
RT: 23.10  
Area: 200171472  
Amount: 2587.0057  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.10  
Area: 380418482  
Amount: 4484.0654  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04434  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

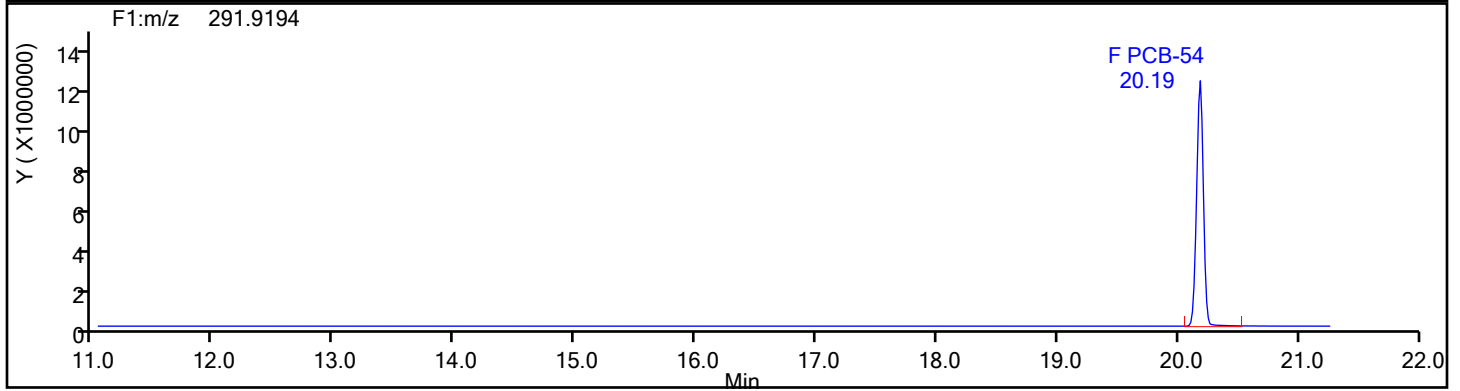
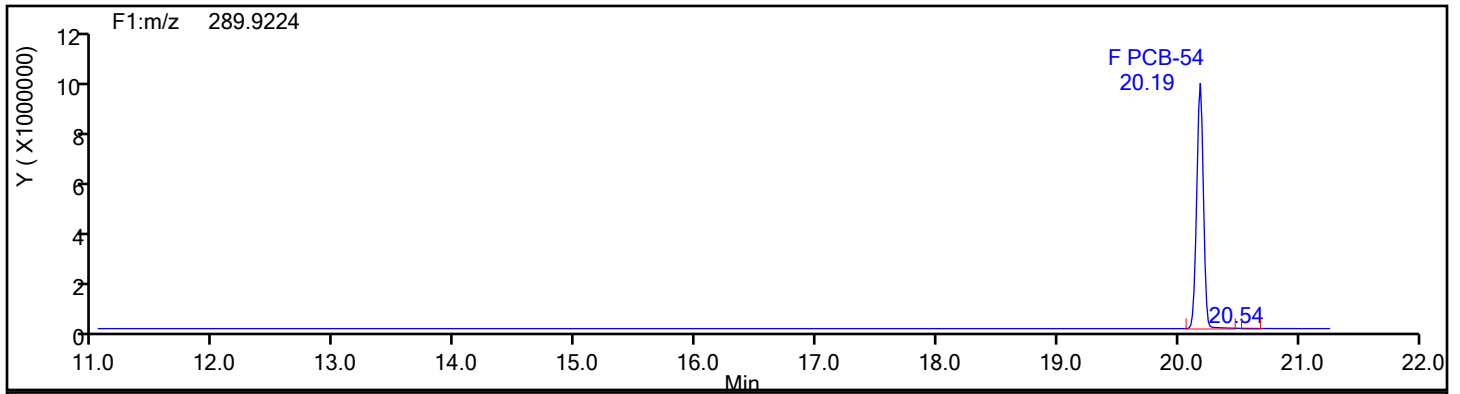
Worklist#: 87130

Sample Line#: 6

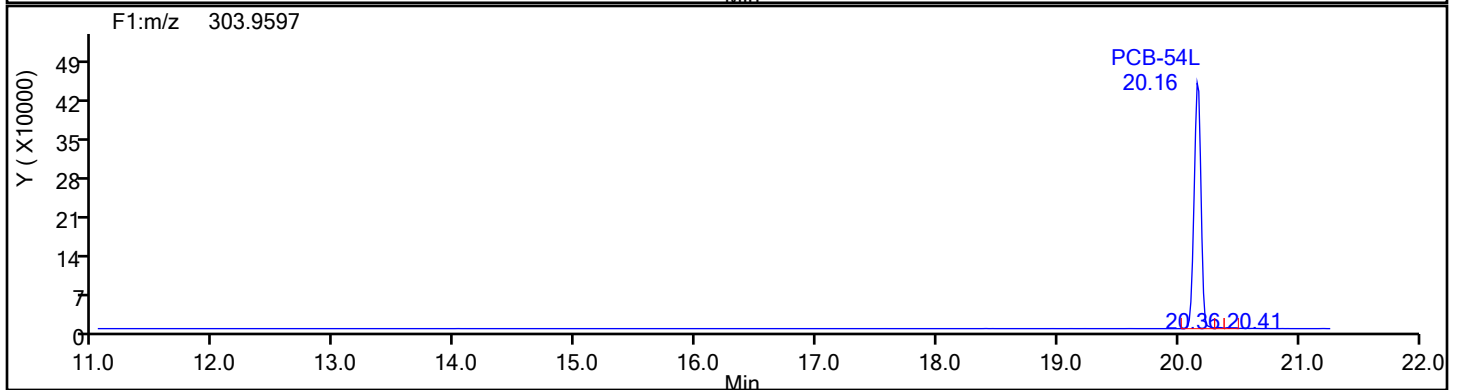
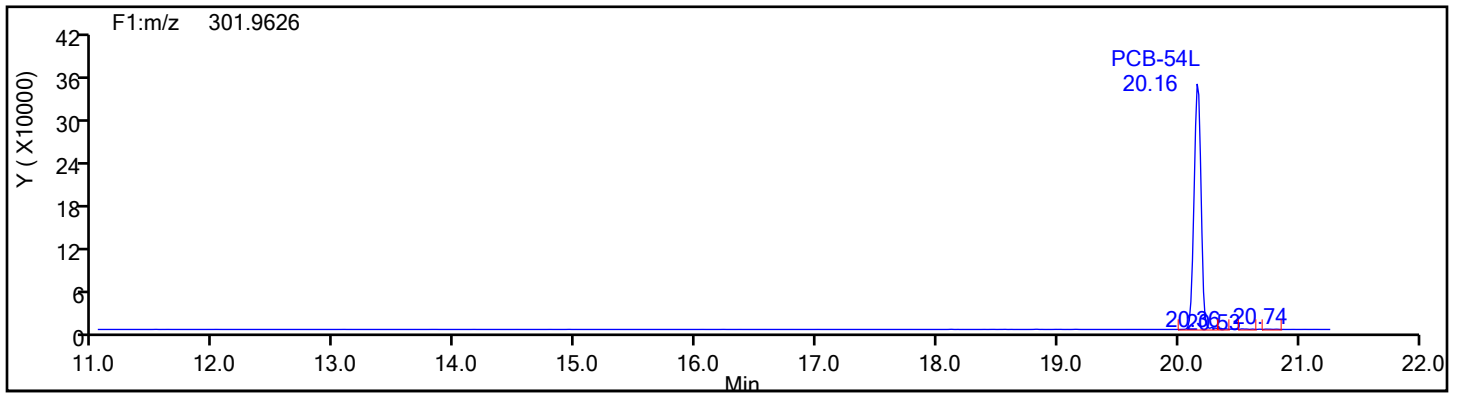
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

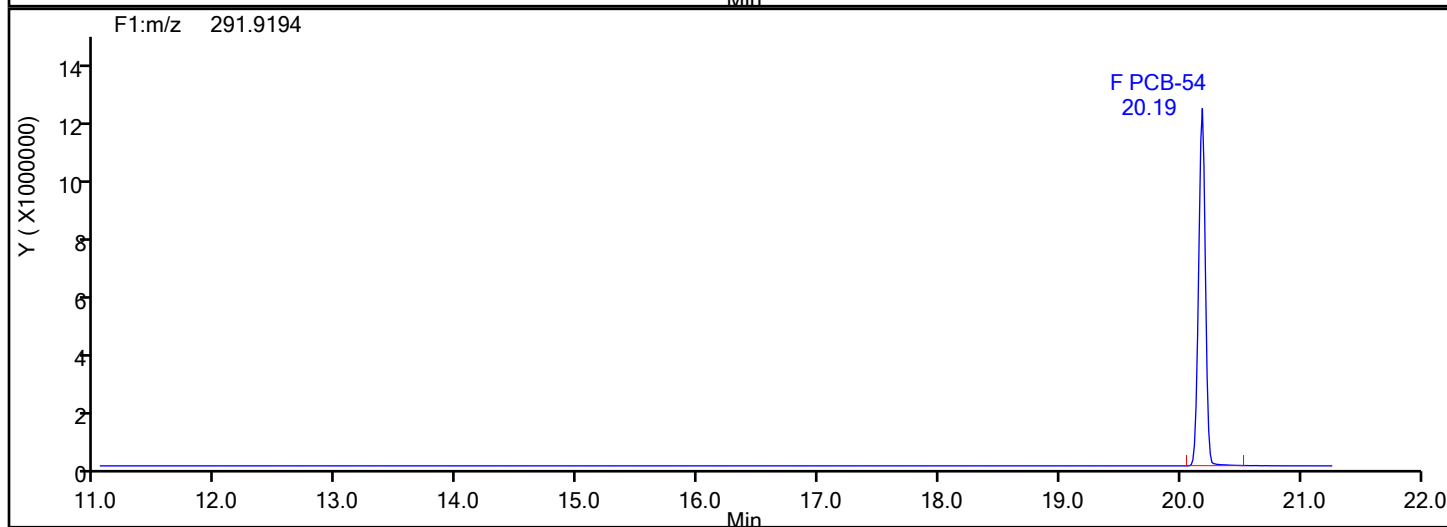
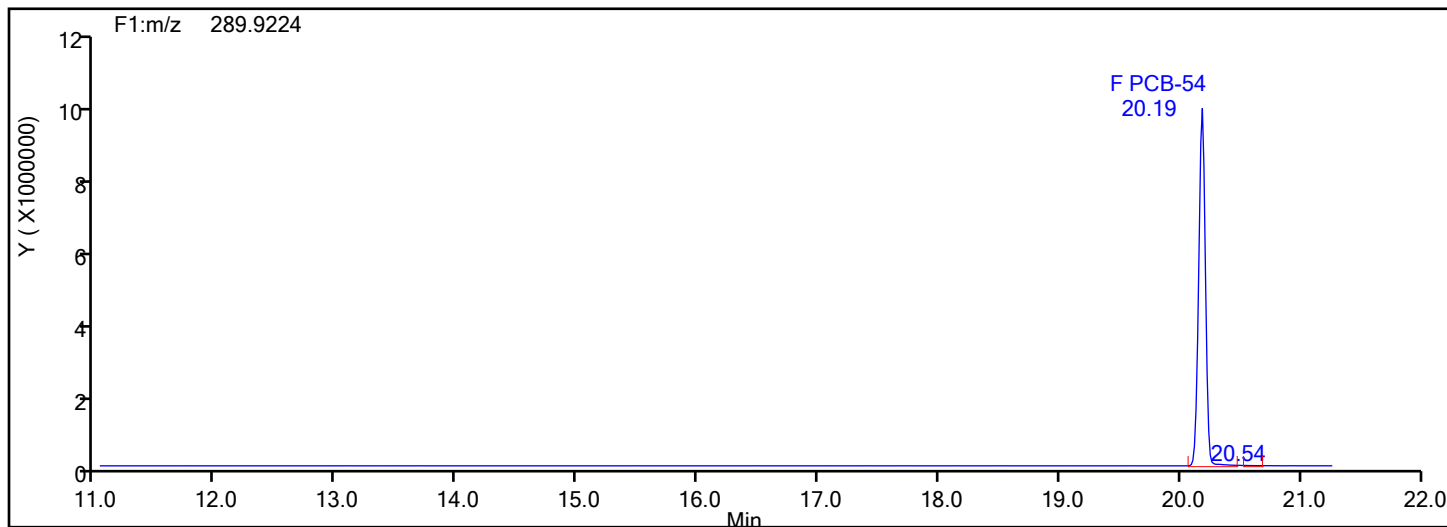
Worklist#: 87130

Sample Line#: 6

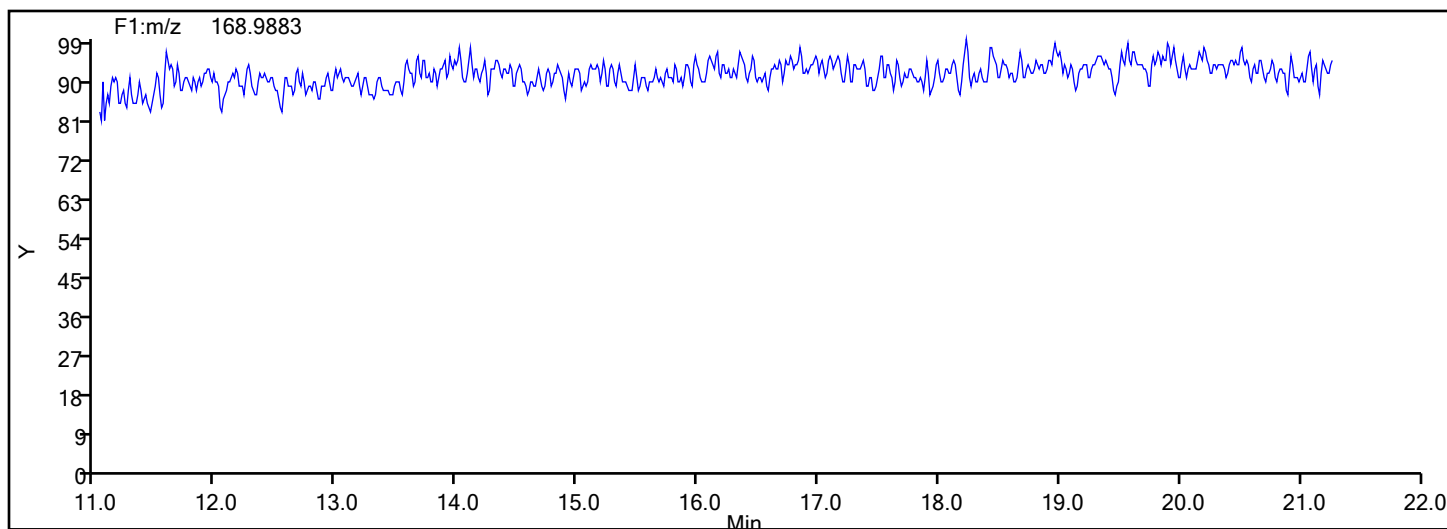
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

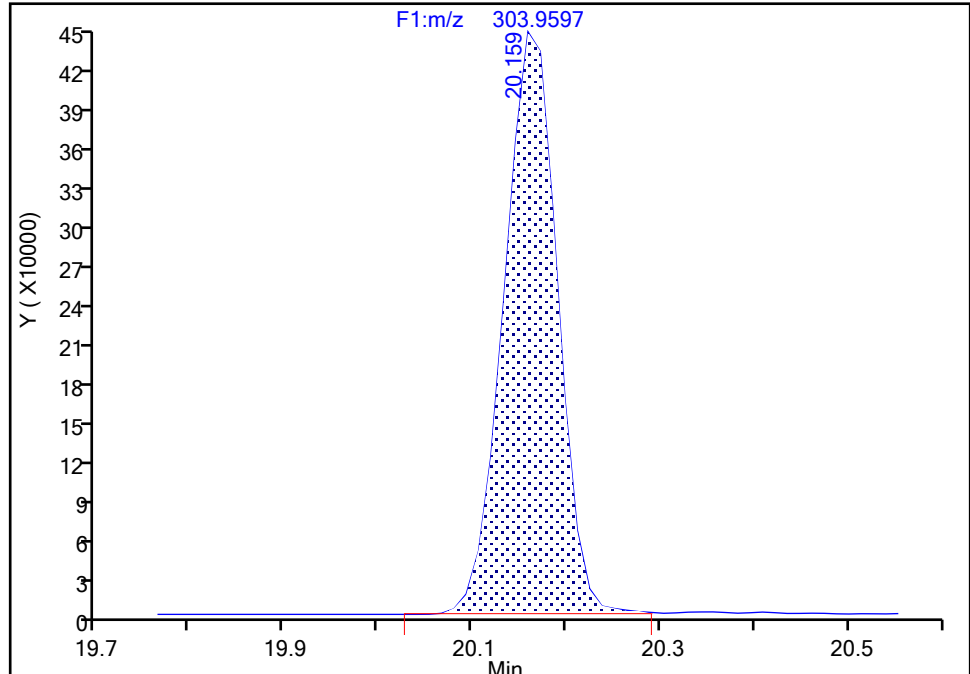
Detector F1(11.07 :21.70 )

**PCB-54L, CAS: 234432-88-3**

Signal: 2

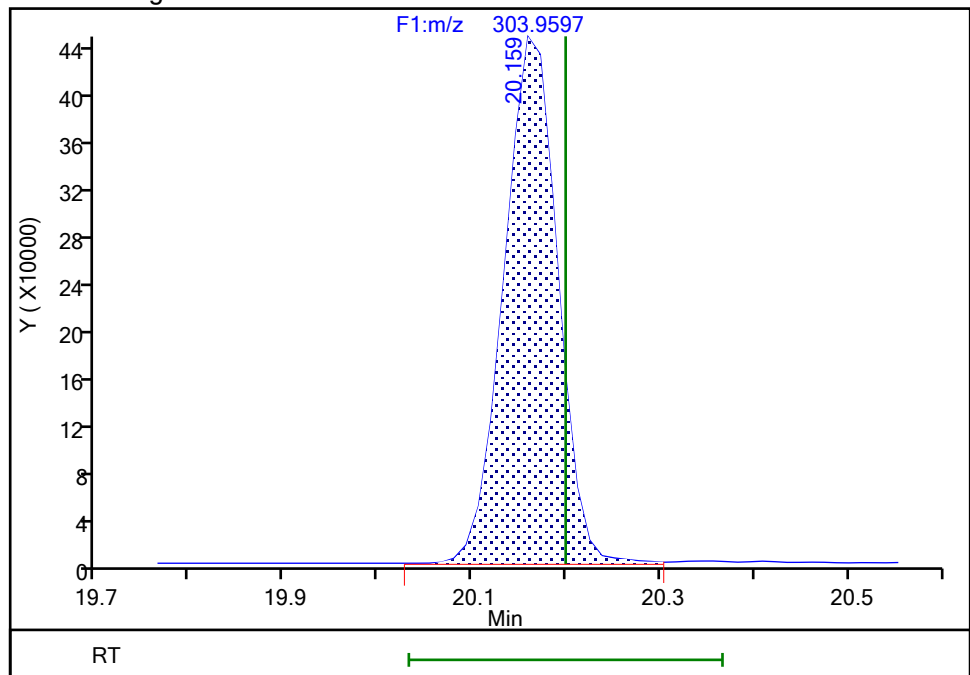
RT: 20.16  
Area: 1770178  
Amount: 96.965661  
Amount Units: pg/ul

## Processing Integration Results



RT: 20.16  
Area: 1783210  
Amount: 97.298516  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

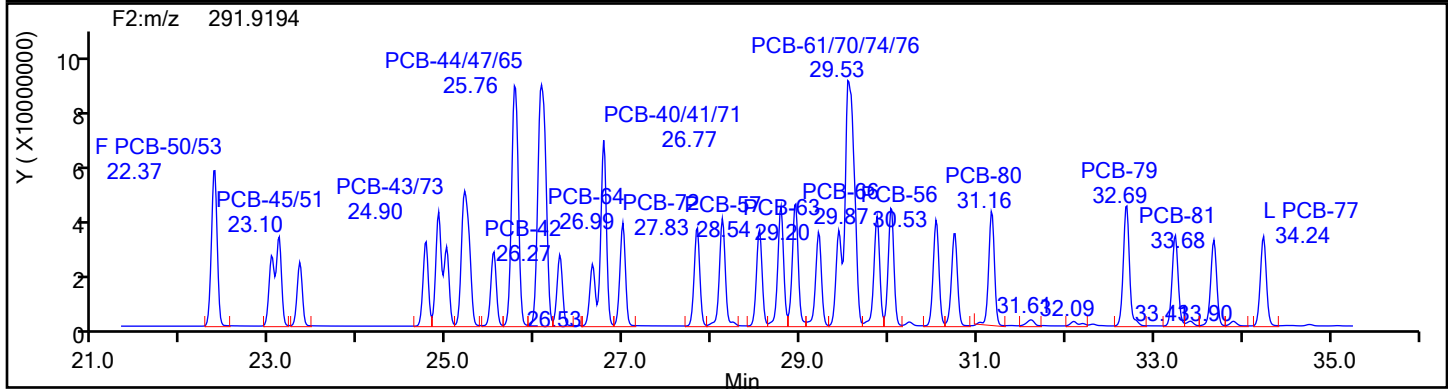
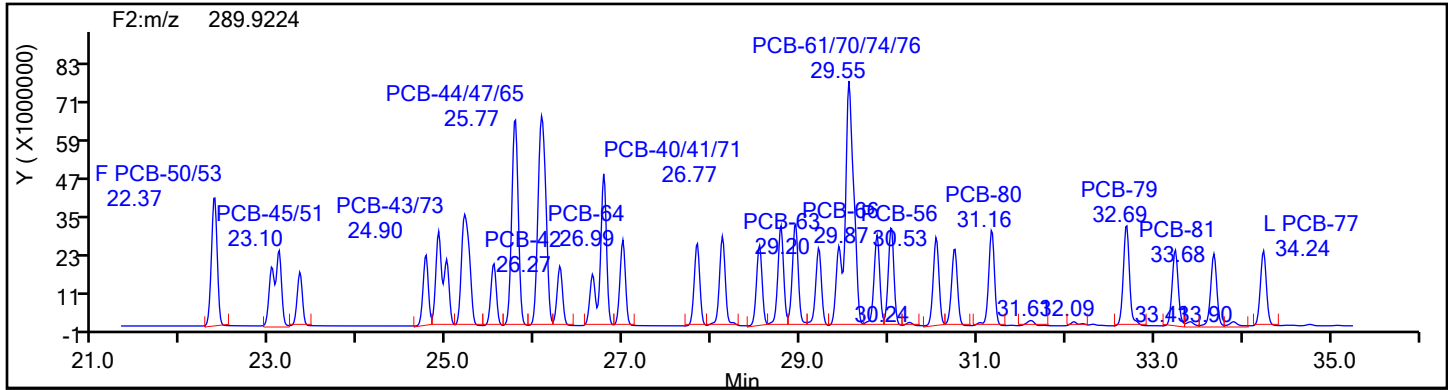
Worklist#: 87130

Sample Line#: 6

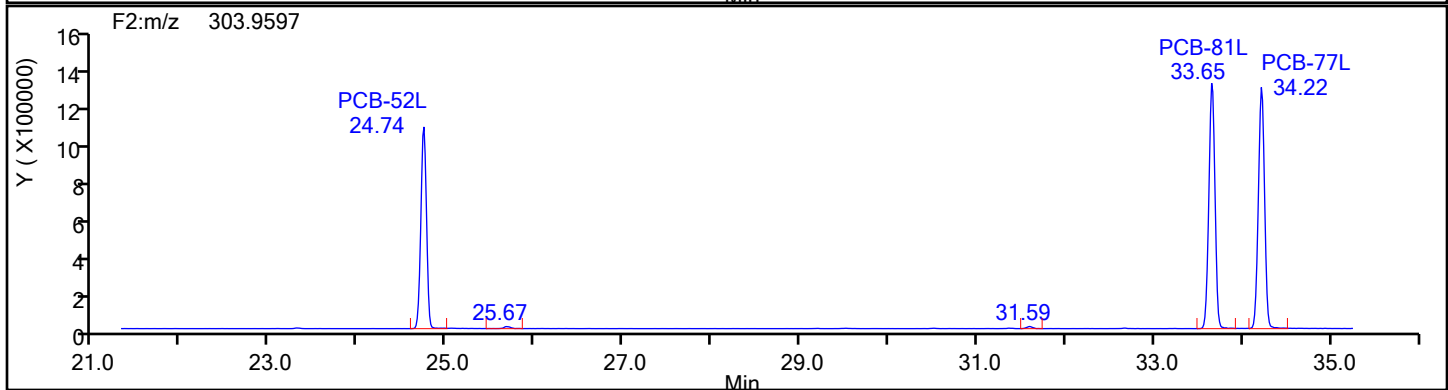
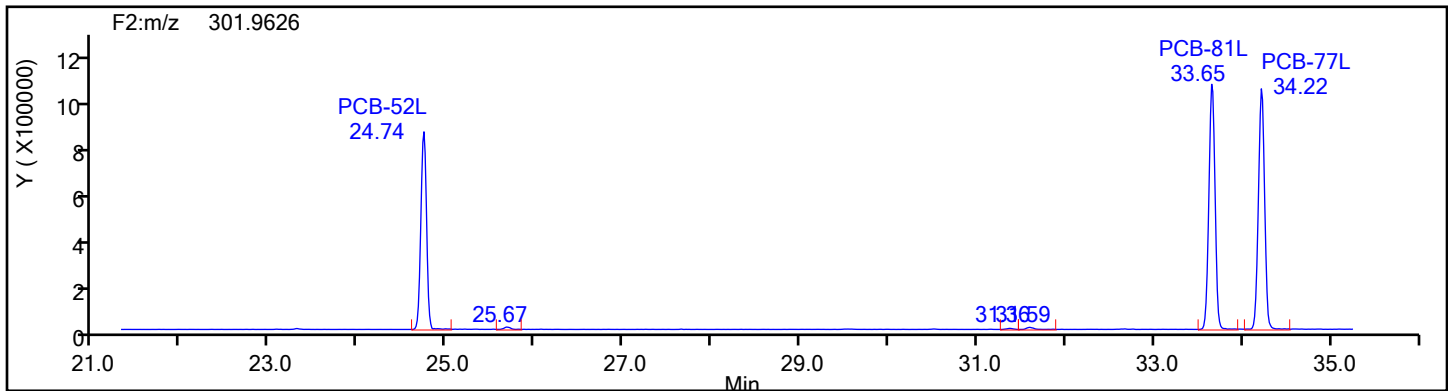
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

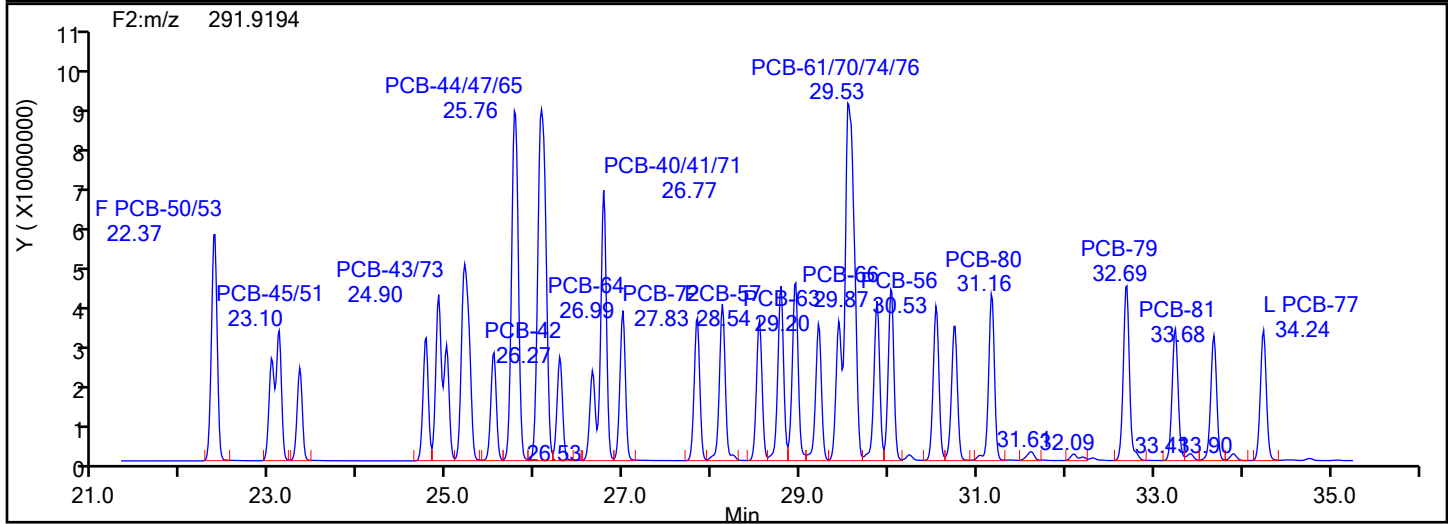
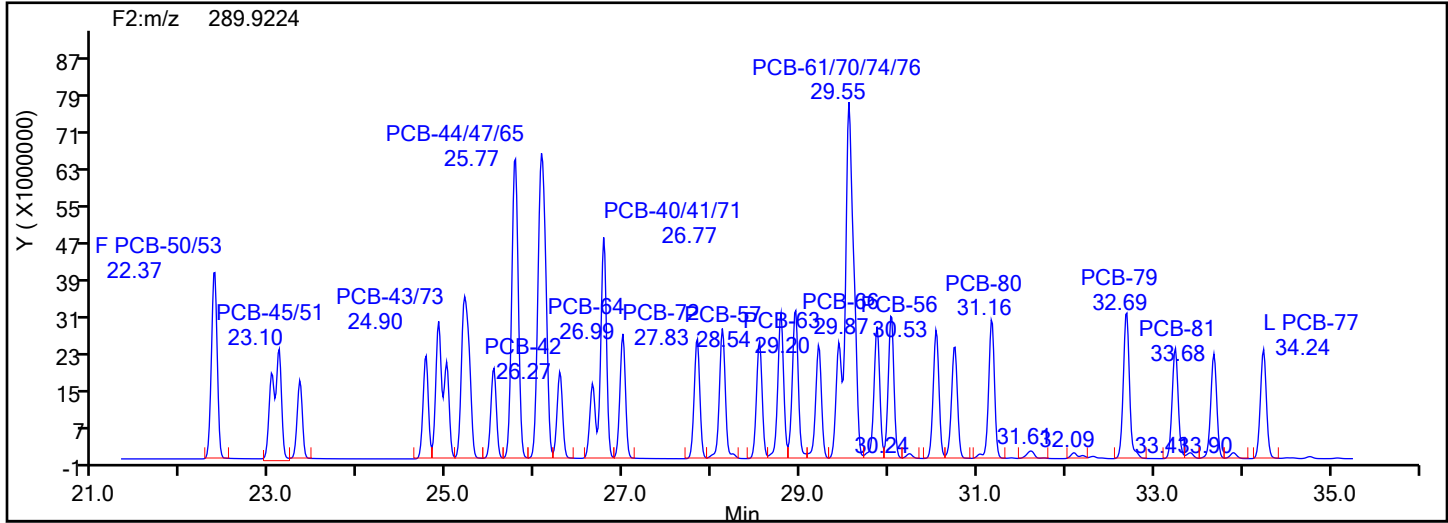
Worklist#: 87130

Sample Line#: 6

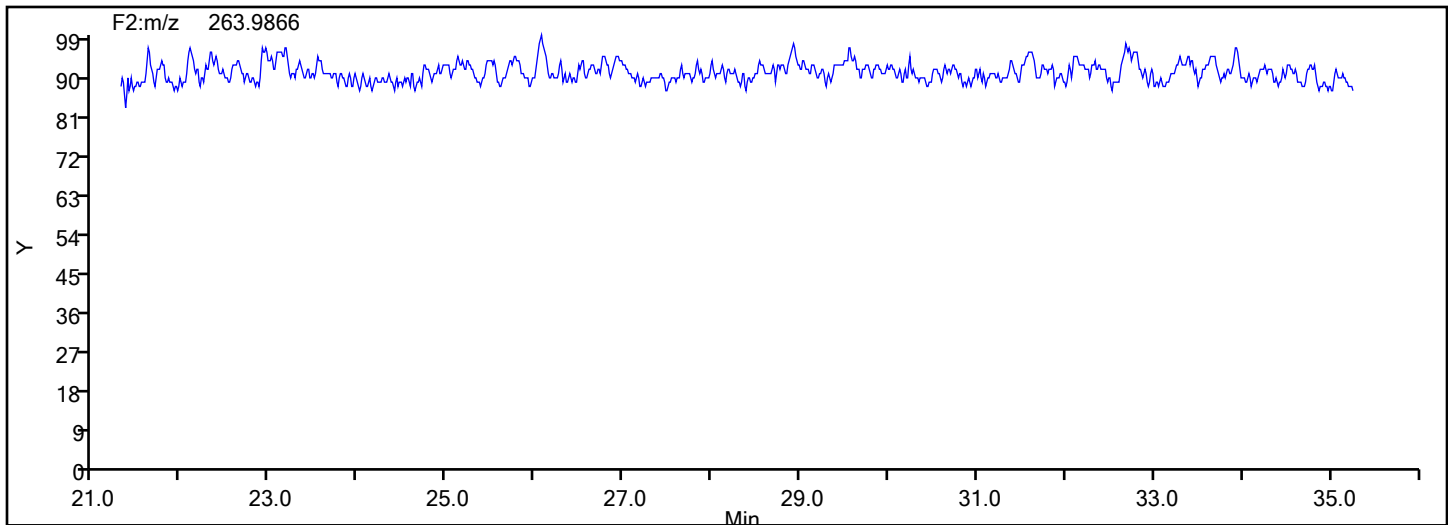
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d		
Injection Date:	31-May-2024 21:13:00	Instrument ID:	D2D
Lims ID:	IC L6		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl ( 0.25 mm)	Detector	F2(21.81 :35.5

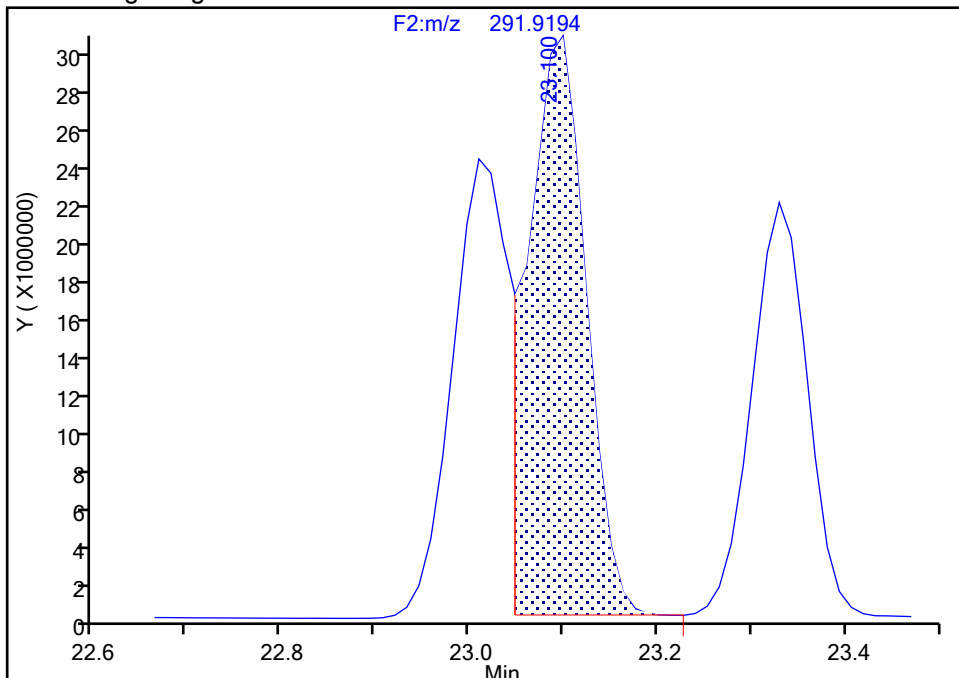
```

ALS Bottle#:      0           Worklist Smp#:      6
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F2(21.81 :35.54 )

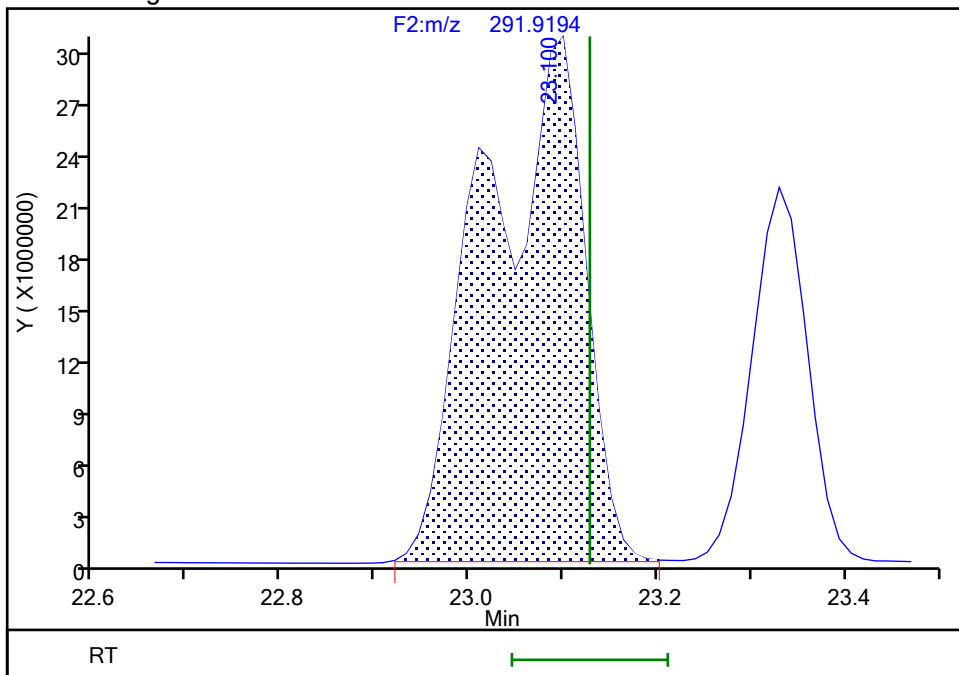
```

Signal: 2

## Processing Integration Results



## Manual Integration Results



Audit Reason: Baseline

## Eurofins Knoxville

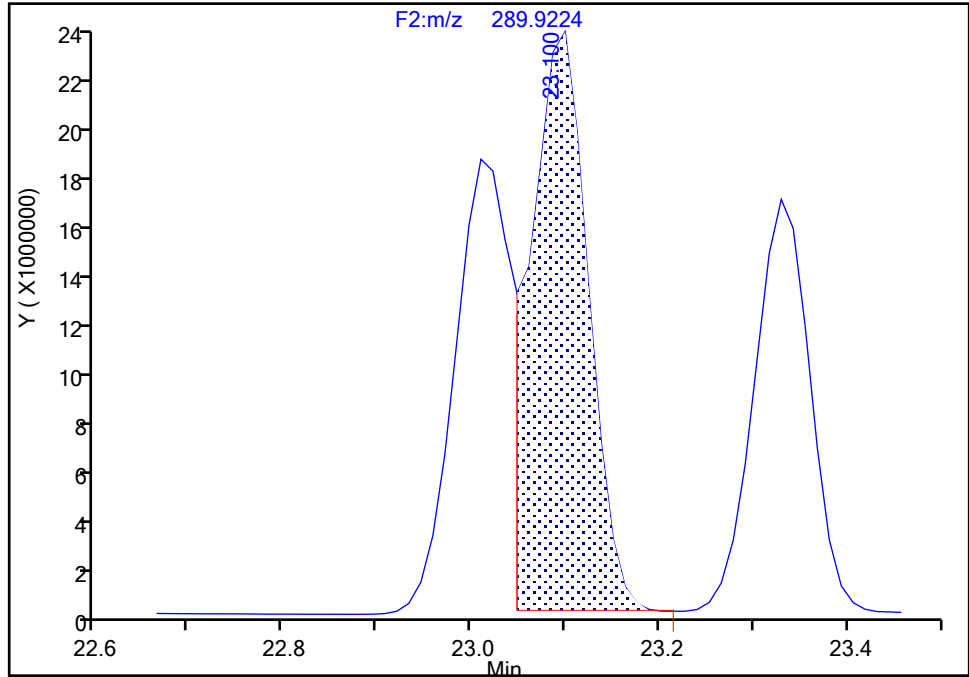
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-45/51, CAS: STL01804

Signal: 1

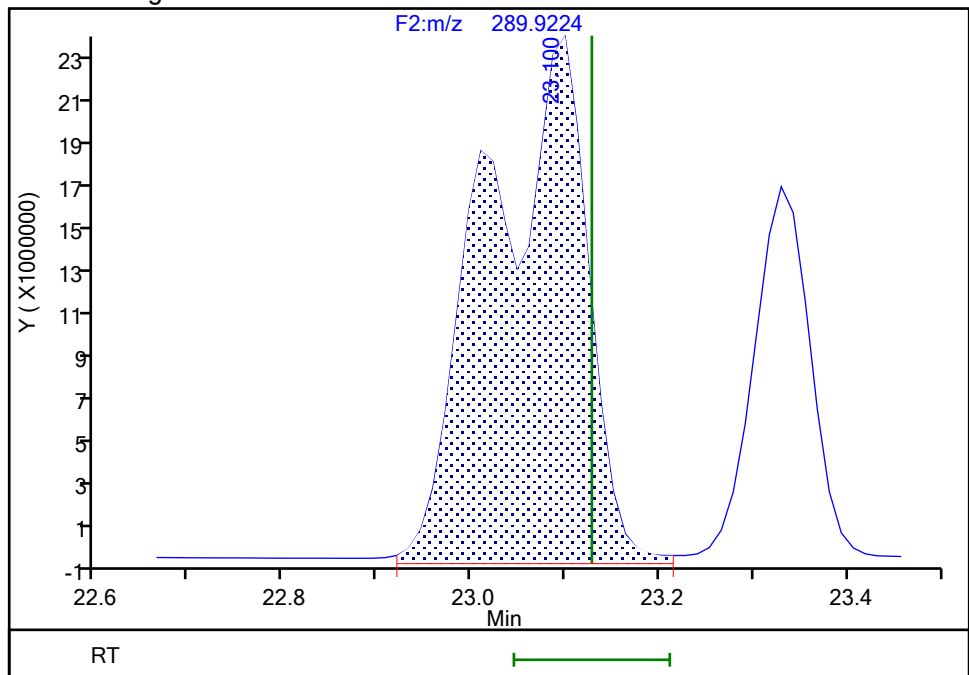
RT: 23.10  
Area: 98729299  
Amount: 2641.0659  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.10  
Area: 178079818  
Amount: 4329.7434  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:03:54 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04441  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

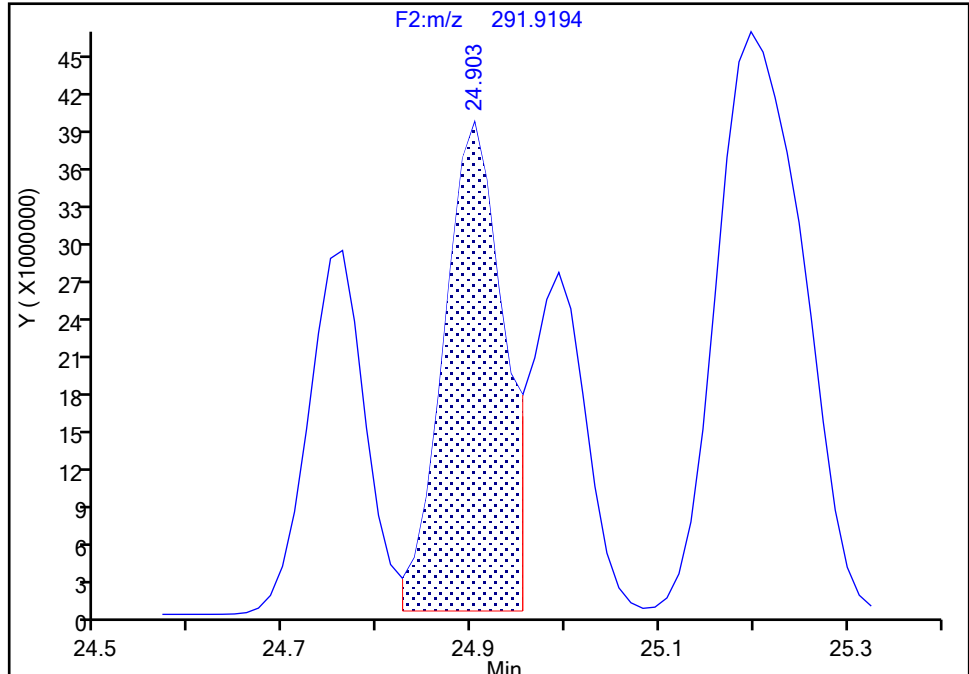
Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

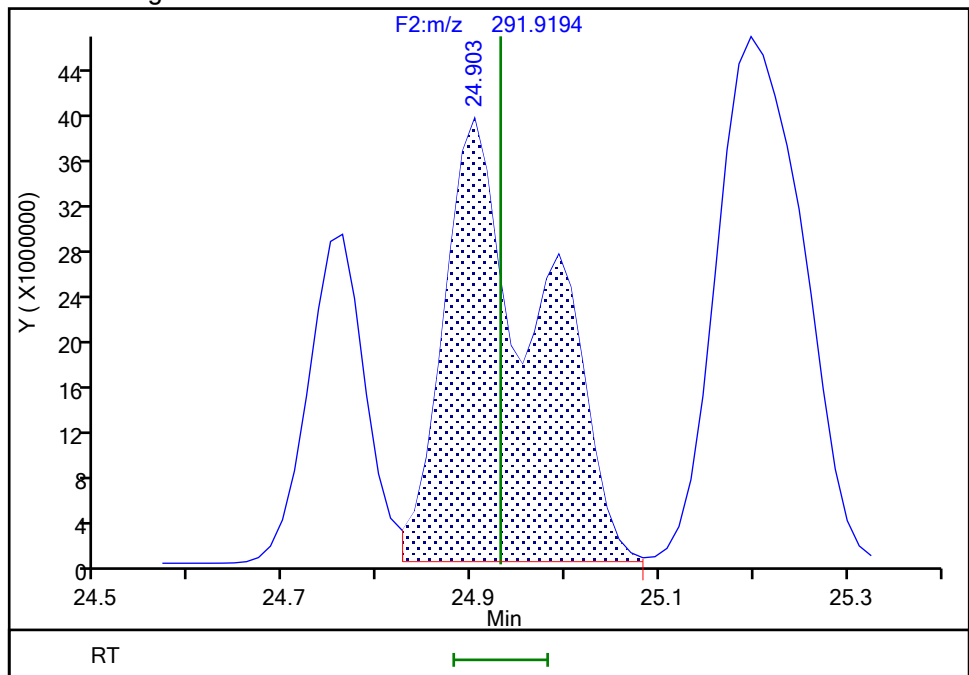
RT: 24.90  
Area: 169772440  
Amount: 2777.6048  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.90  
Area: 277935156  
Amount: 4218.4880  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

## Eurofins Knoxville

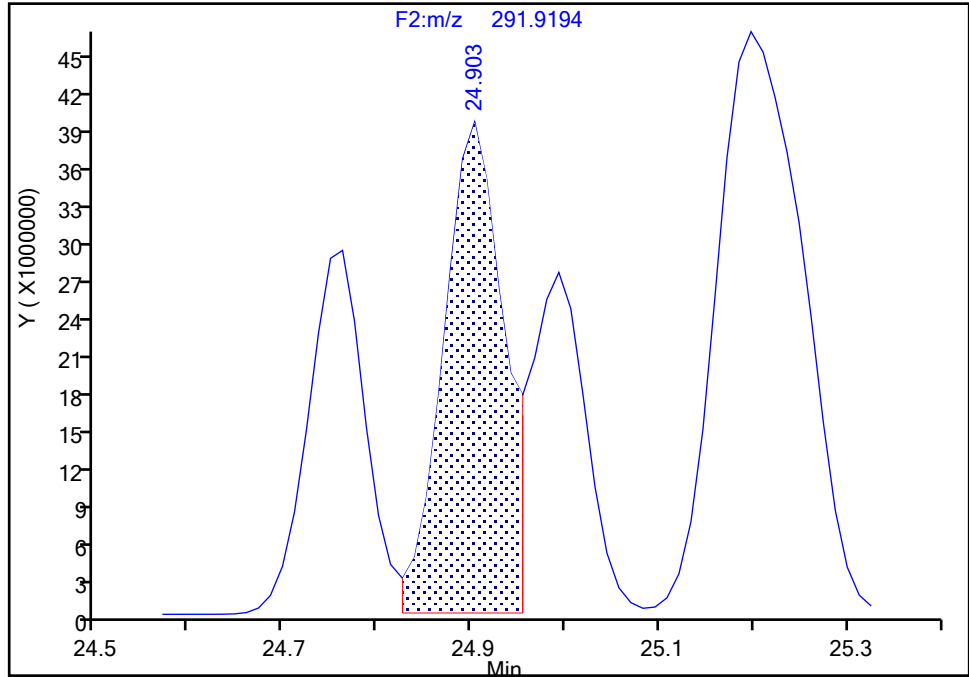
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

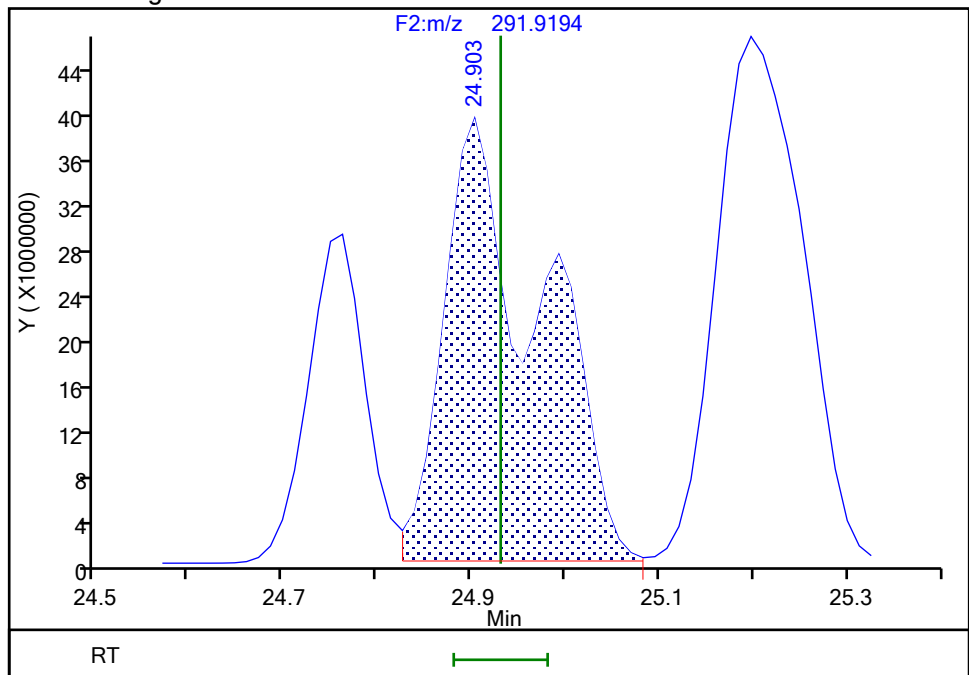
RT: 24.90  
Area: 169772440  
Amount: 2777.6048  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.90  
Area: 277935156  
Amount: 4218.4880  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:35 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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BASFHWC-F-2024-04443  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

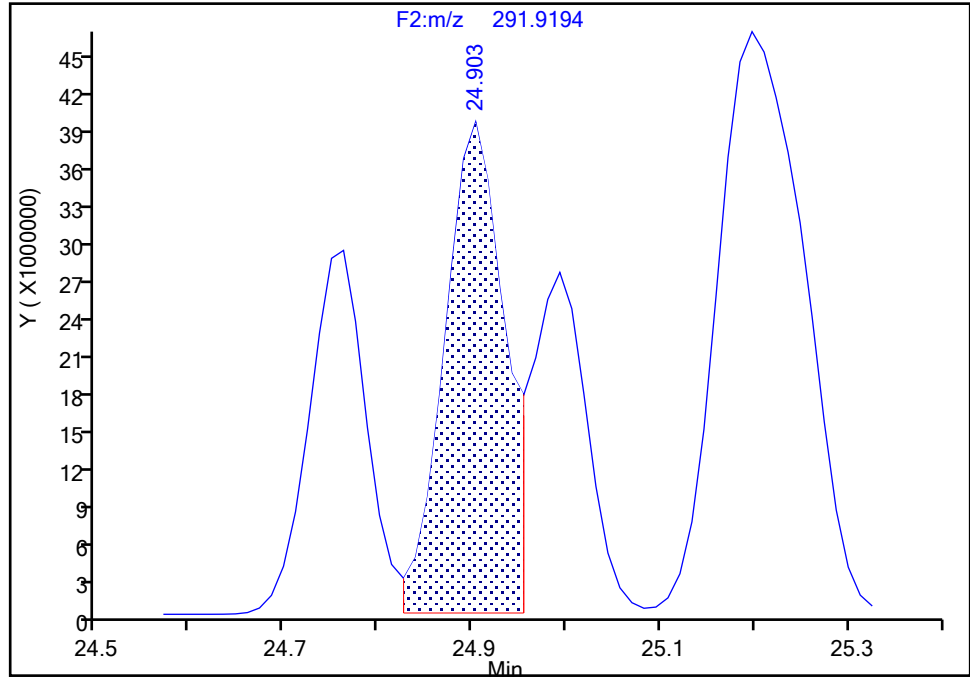
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 3

RT: 24.90  
Area: 300336589  
Amount: 2777.6048  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 24.90  
Area: 489361192  
Amount: 4218.4880  
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:04:35 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

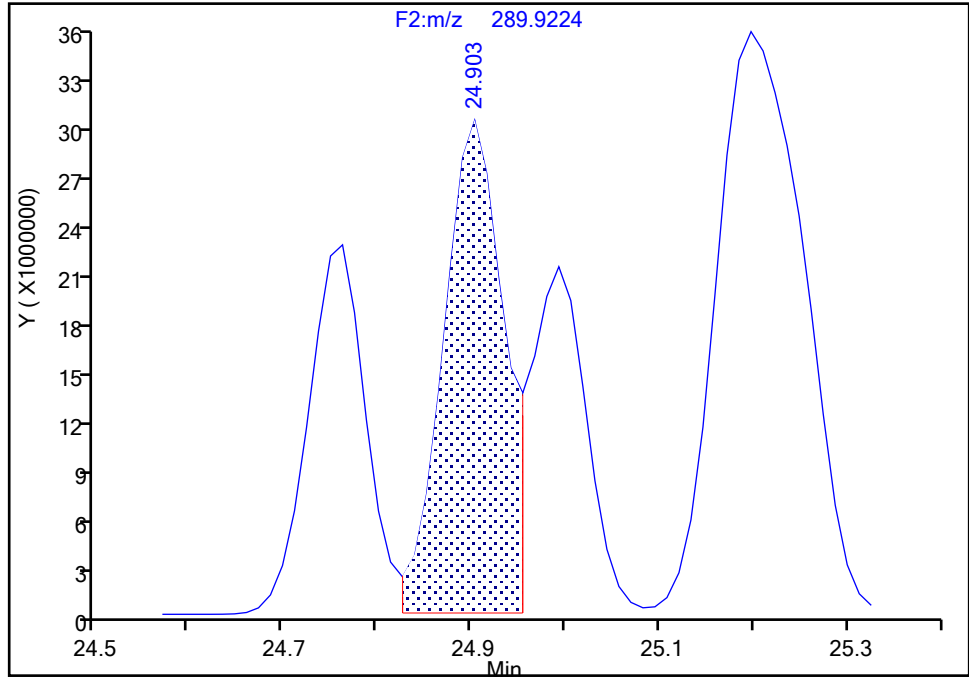
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 1

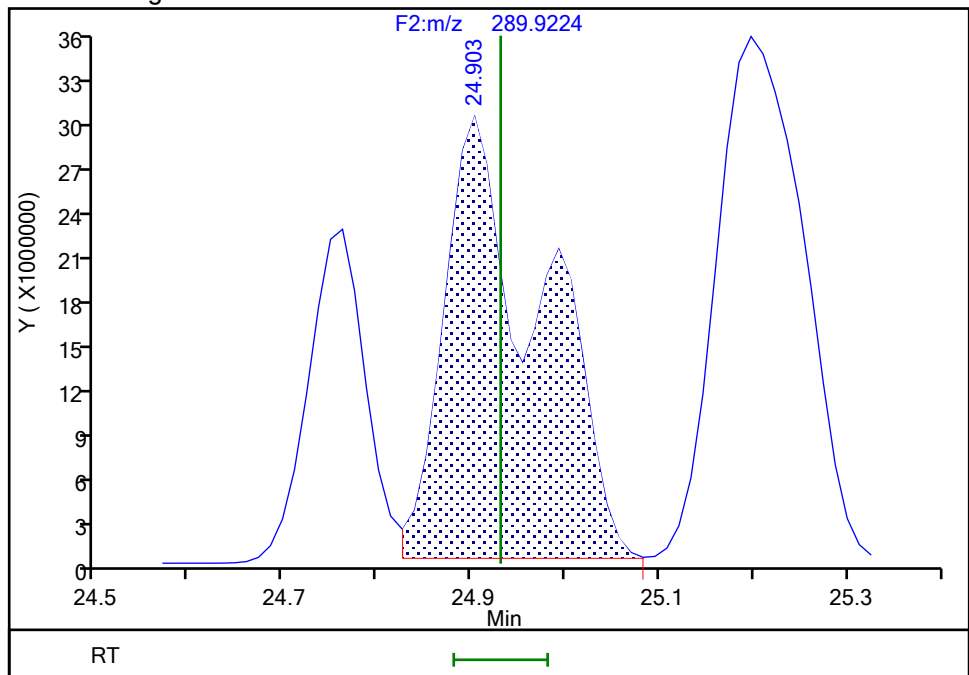
RT: 24.90  
Area: 130564149  
Amount: 2777.6048  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.90  
Area: 211426036  
Amount: 4218.4880  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:37 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

## Eurofins Knoxville

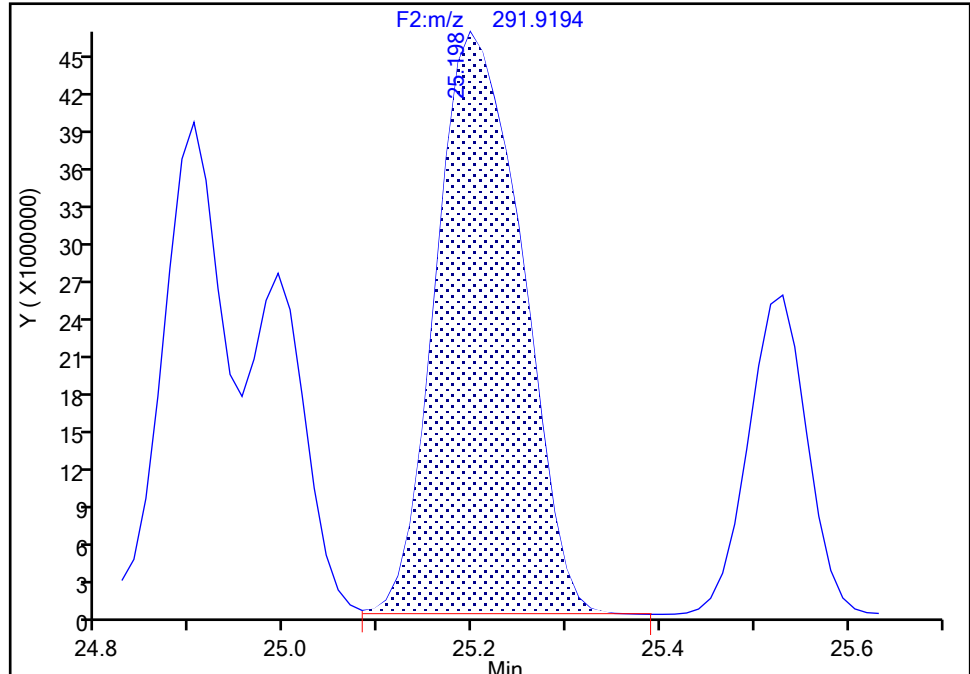
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-49/69, CAS: STL01805

Signal: 2

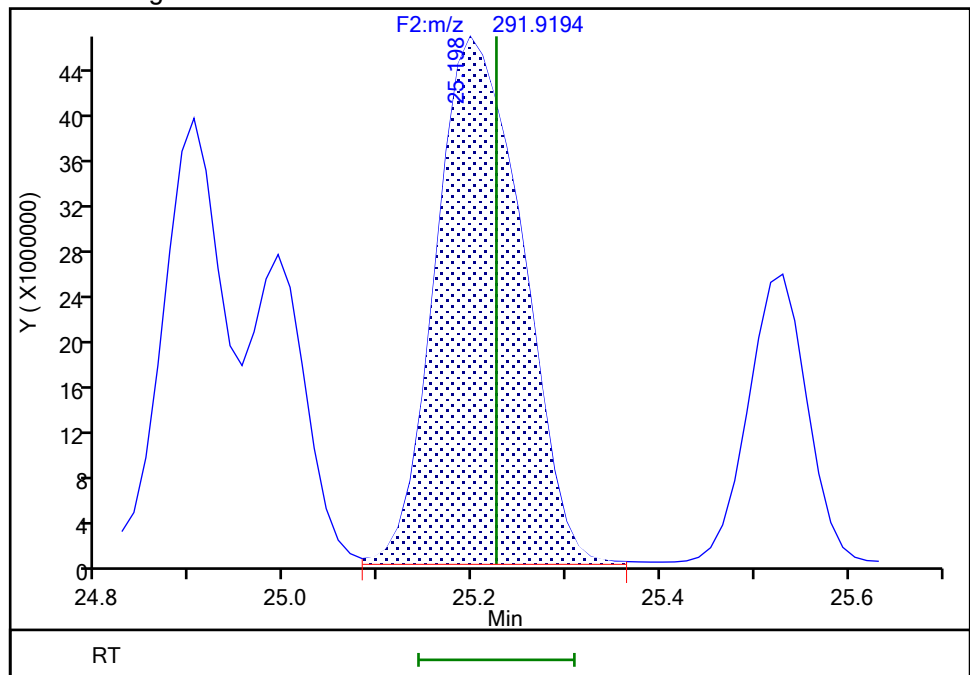
RT: 25.20  
Area: 292362083  
Amount: 4313.5357  
Amount Units: pg/ul

## Processing Integration Results



RT: 25.20  
Area: 293974420  
Amount: 4324.5612  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:04:29 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

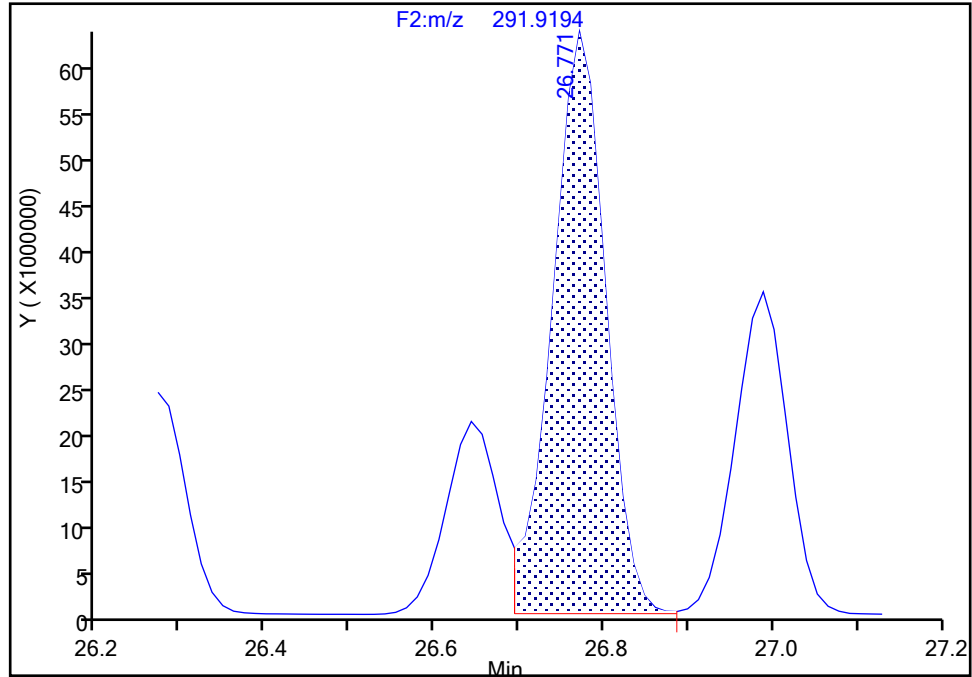
Detector F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 2

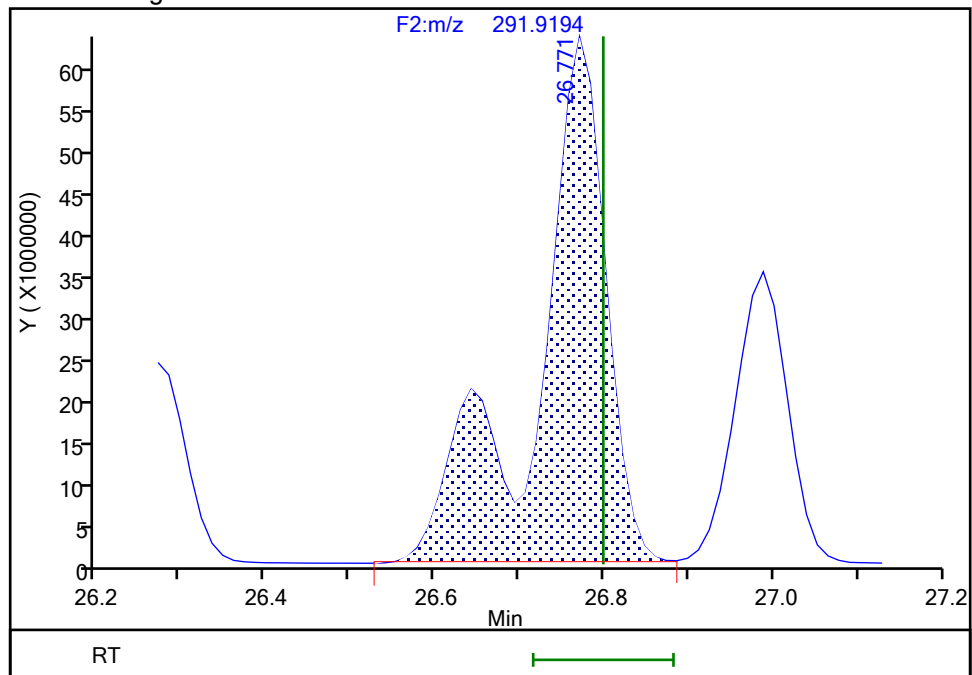
RT: 26.77  
Area: 276411598  
Amount: 5120.9933  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.77  
Area: 364045686  
Amount: 6444.9845  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:05:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

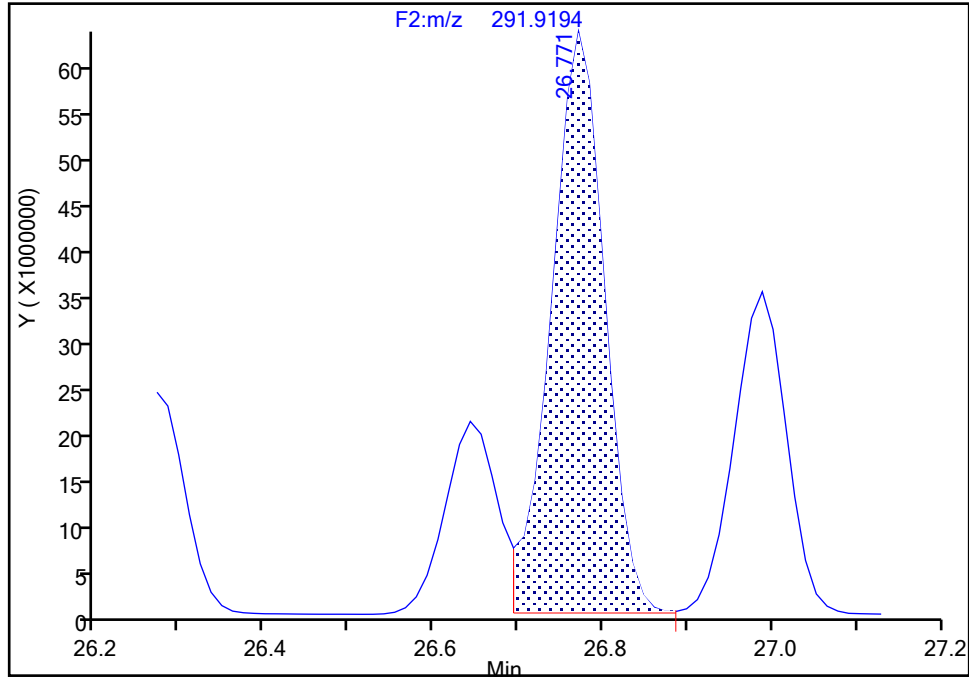
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 2

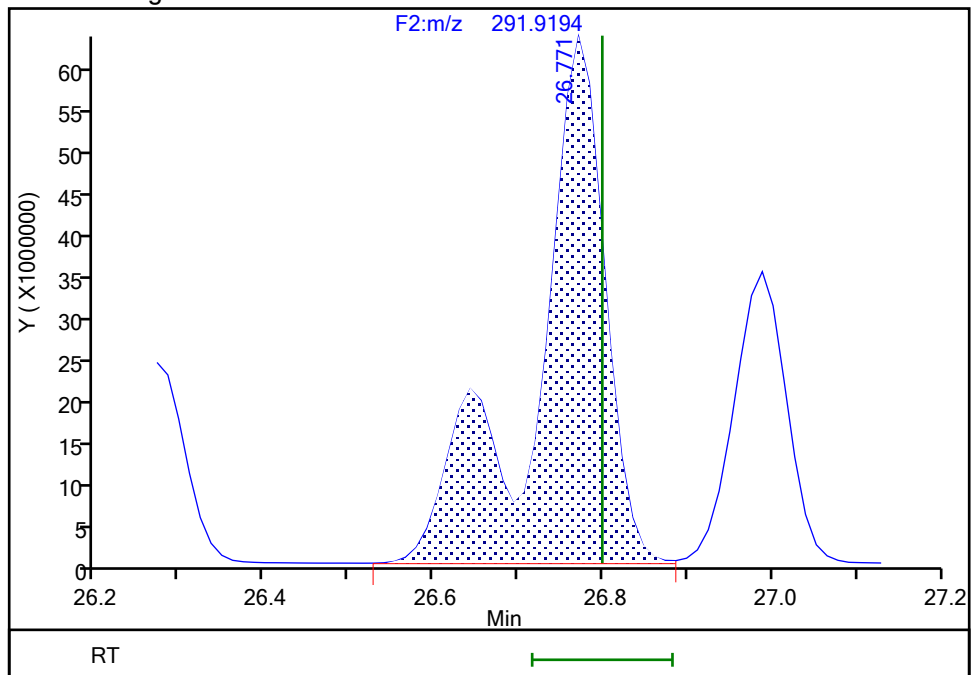
RT: 26.77  
Area: 276411598  
Amount: 5120.9933  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.77  
Area: 364045686  
Amount: 6444.9845  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:05:30 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

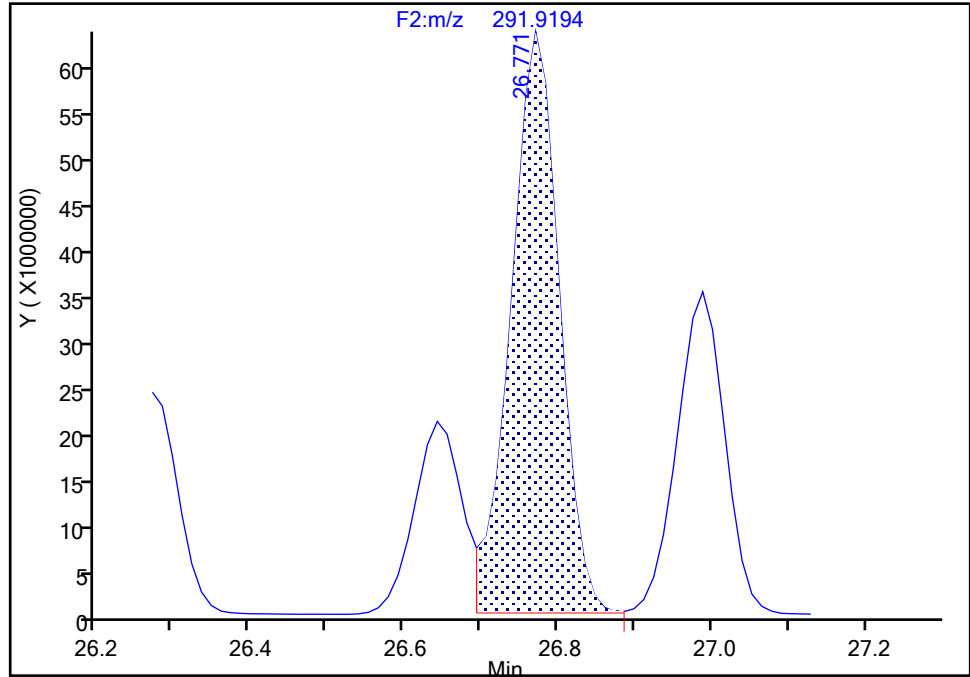
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 3

RT: 26.77  
Area: 487694602  
Amount: 5120.9933  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 26.77  
Area: 641280083  
Amount: 6444.9845  
Amount Units: pg/ul

Reviewer: V4XA, 01-Jun-2024 03:05:30 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

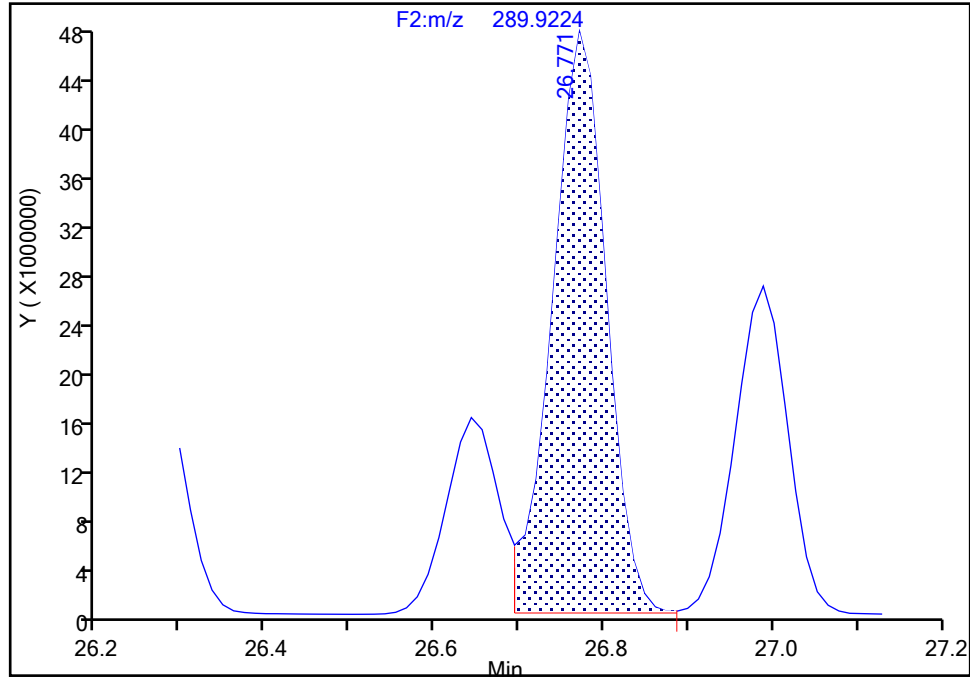
F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 1

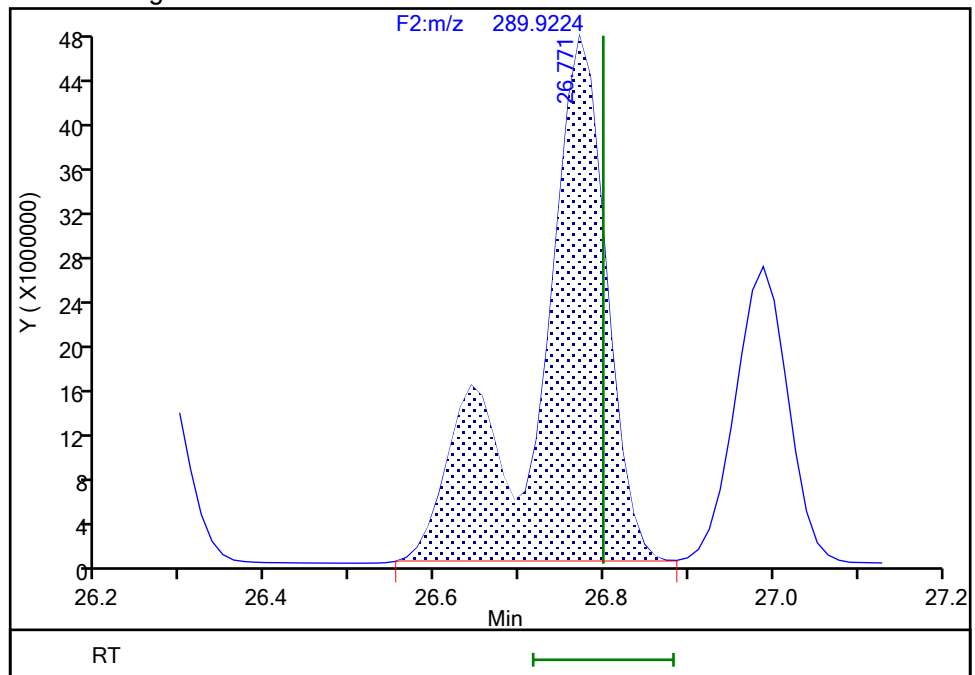
RT: 26.77  
Area: 211283004  
Amount: 5120.9933  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.77  
Area: 277234397  
Amount: 6444.9845  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:05:32 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

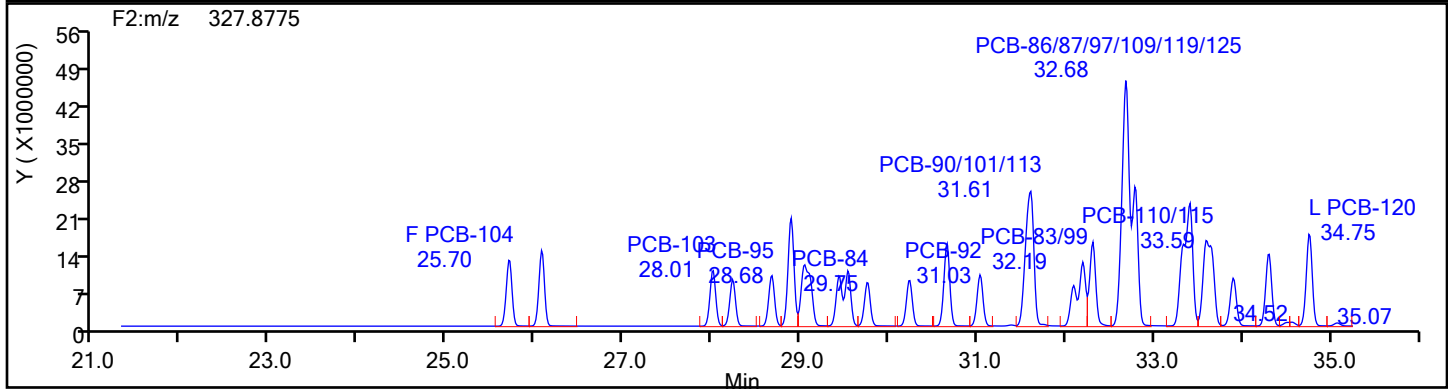
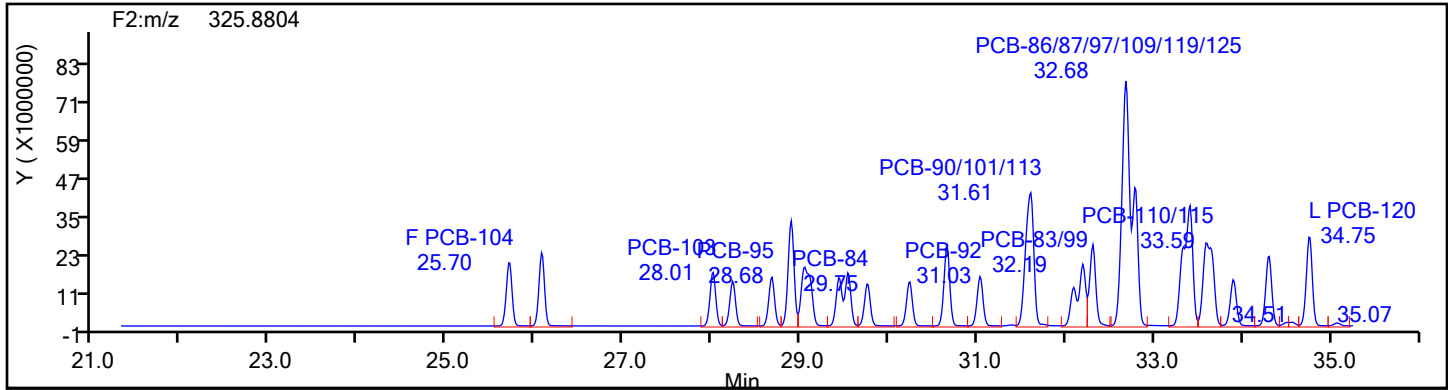
Worklist#: 87130

Sample Line#: 6

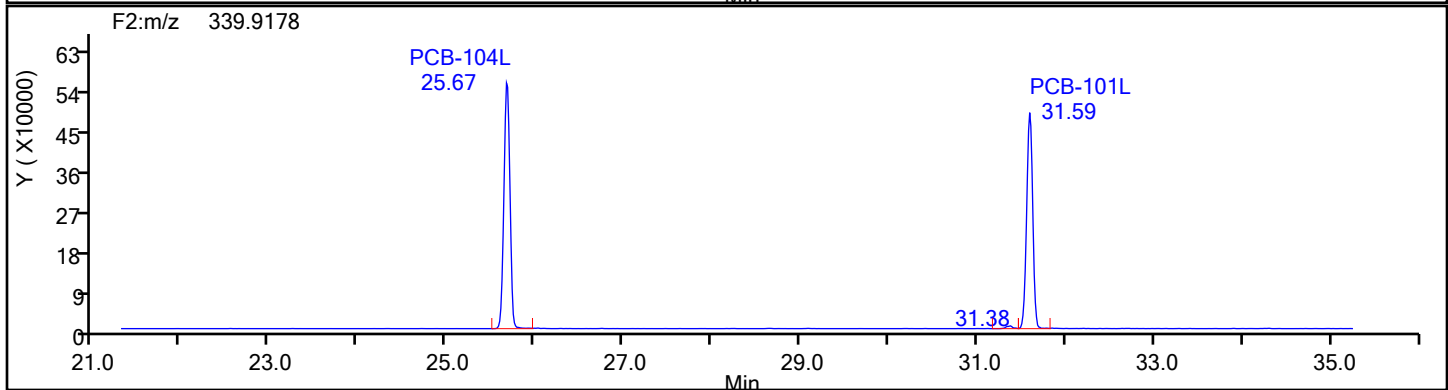
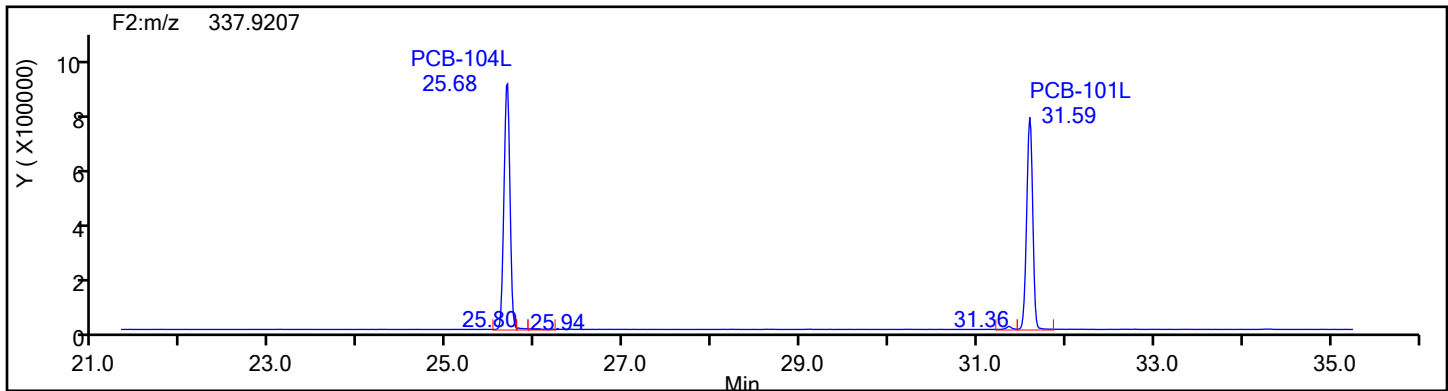
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

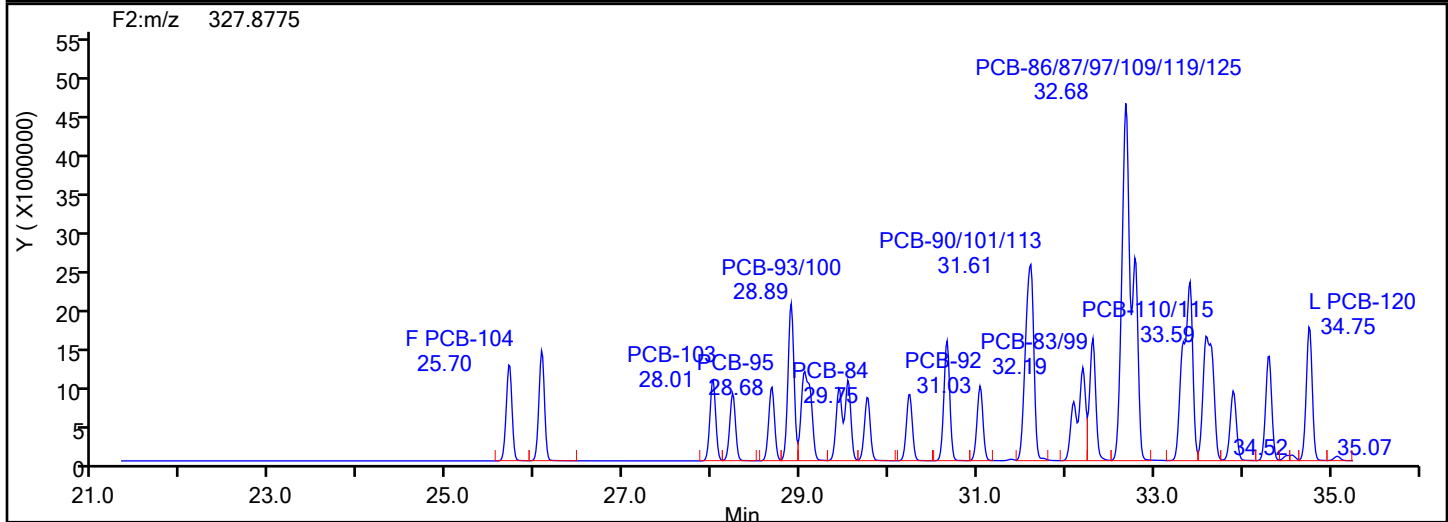
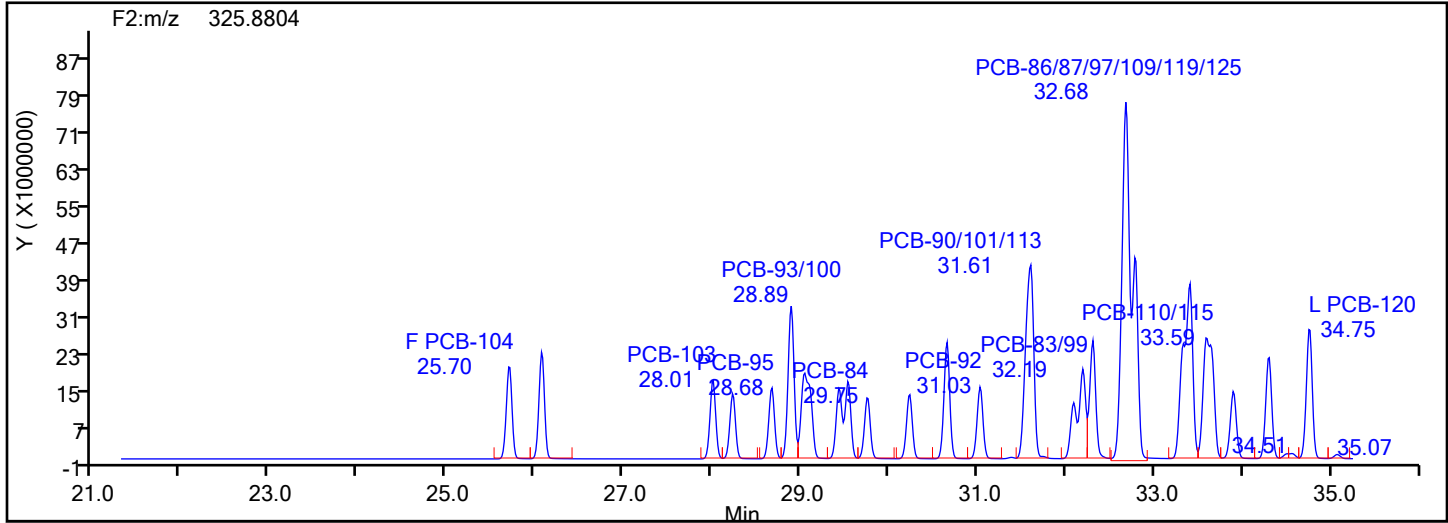
Worklist#: 87130

Sample Line#: 6

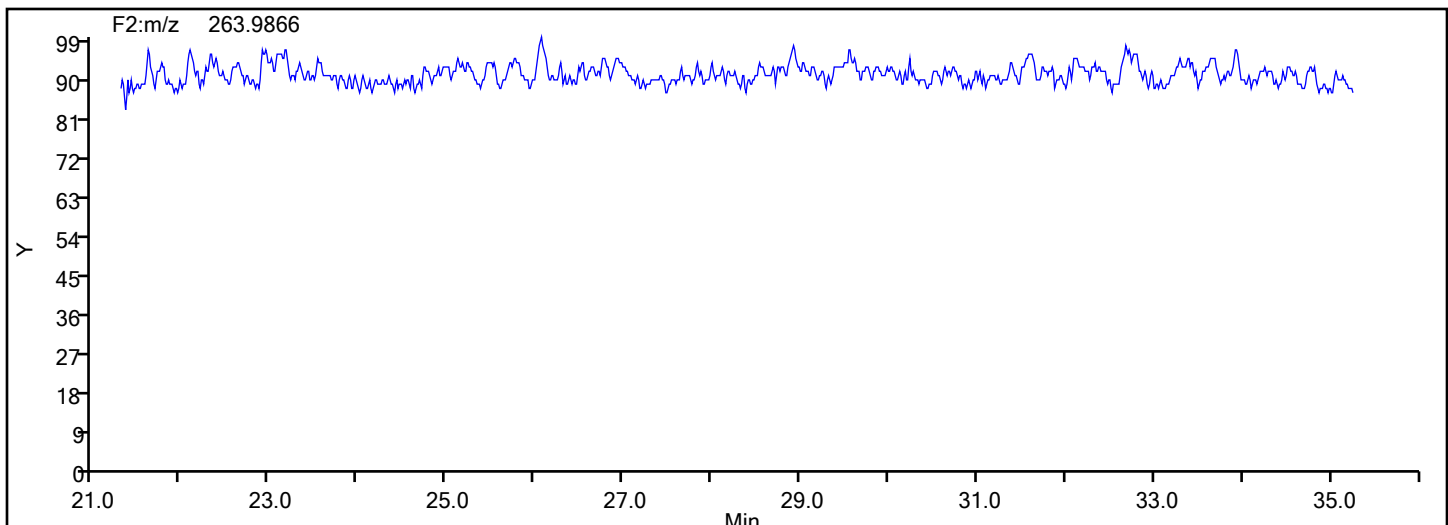
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

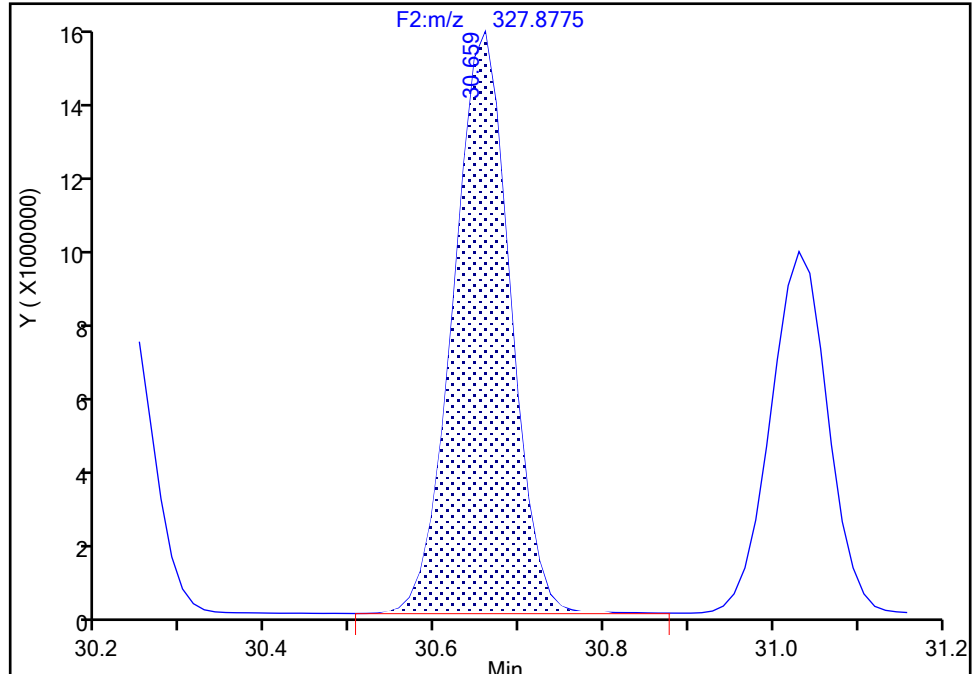
Detector F2(21.81 :35.54 )

**PCB-121, CAS: 56558-18-0**

Signal: 2

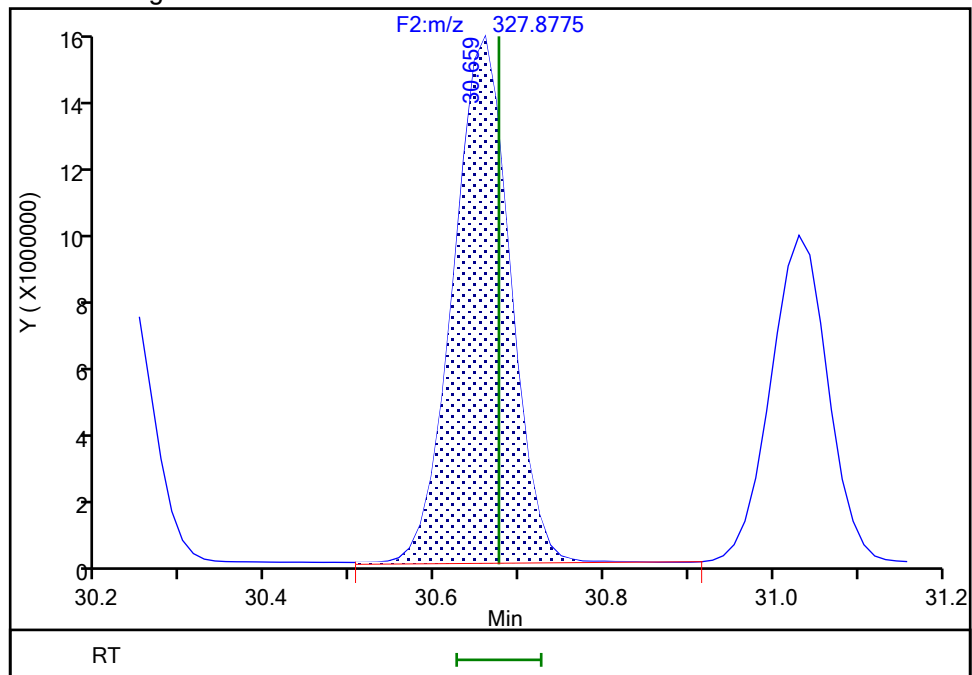
RT: 30.66  
Area: 72472187  
Amount: 2097.3363  
Amount Units: pg/ul

## Processing Integration Results



RT: 30.66  
Area: 72252656  
Amount: 2095.3331  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

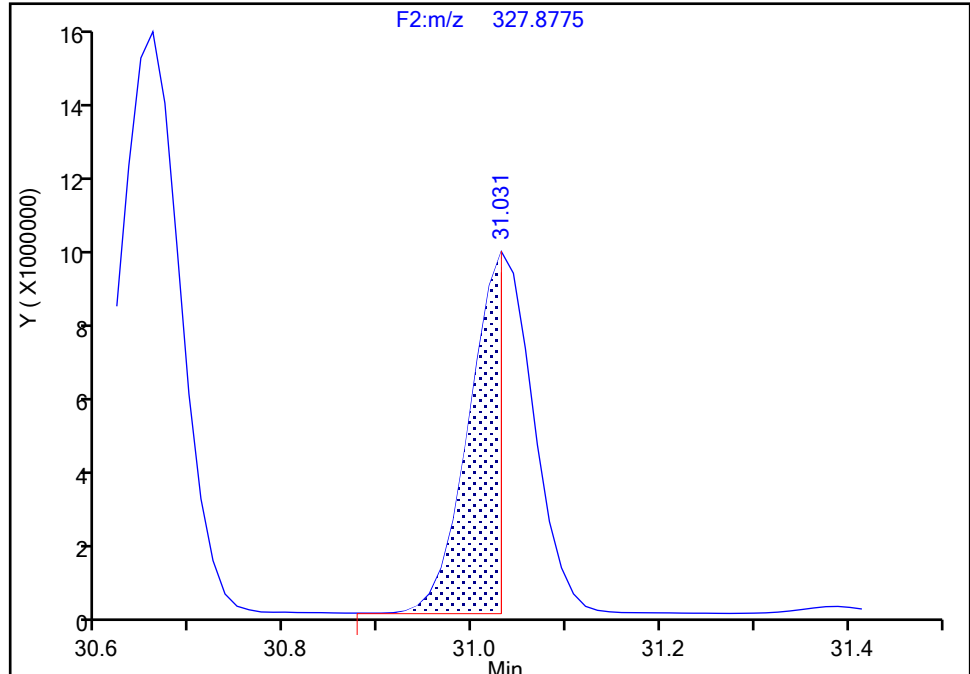
Detector F2(21.81 :35.54 )

**PCB-92, CAS: 52663-61-3**

Signal: 2

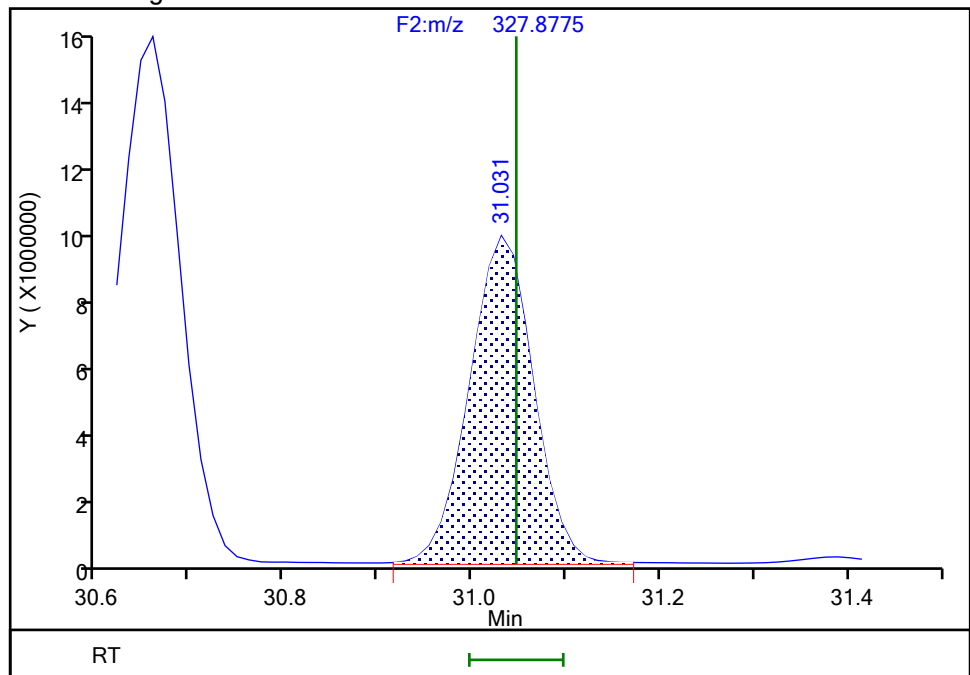
RT: 31.03  
Area: 22578720  
Amount: 1670.2216  
Amount Units: pg/ul

## Processing Integration Results



RT: 31.03  
Area: 45192573  
Amount: 1996.7618  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:01 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

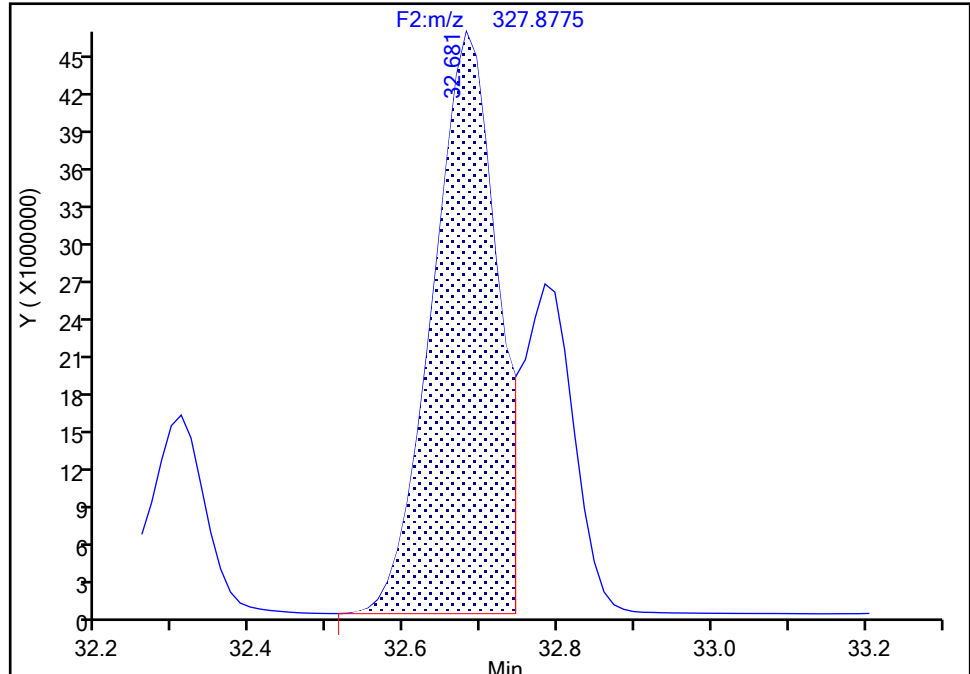
F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

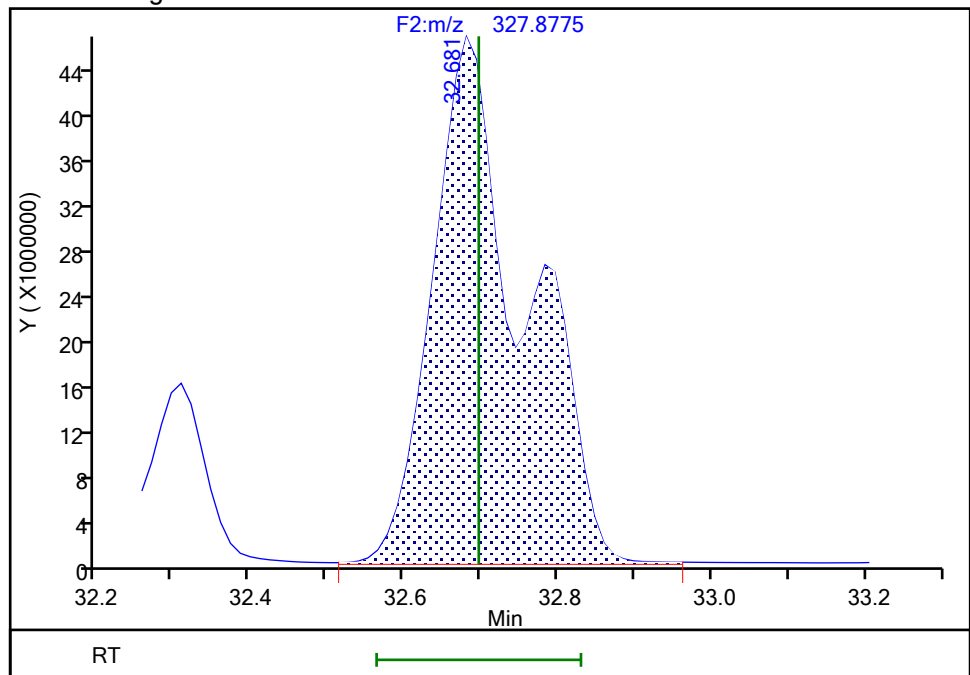
RT: 32.68  
Area: 265602402  
Amount: 10348  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.68  
Area: 384843597  
Amount: 14115  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

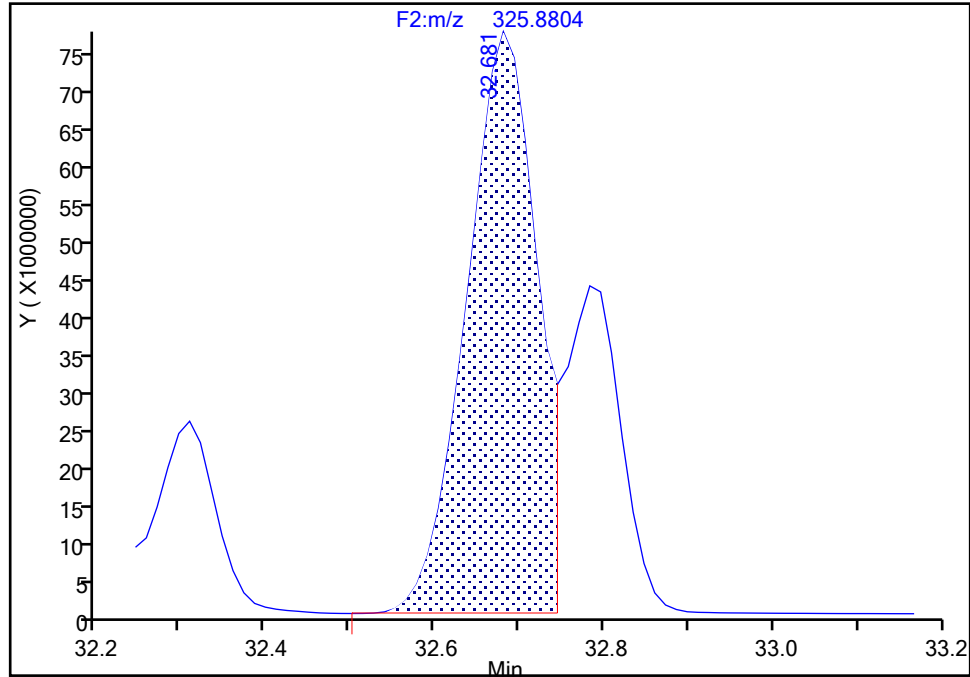
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

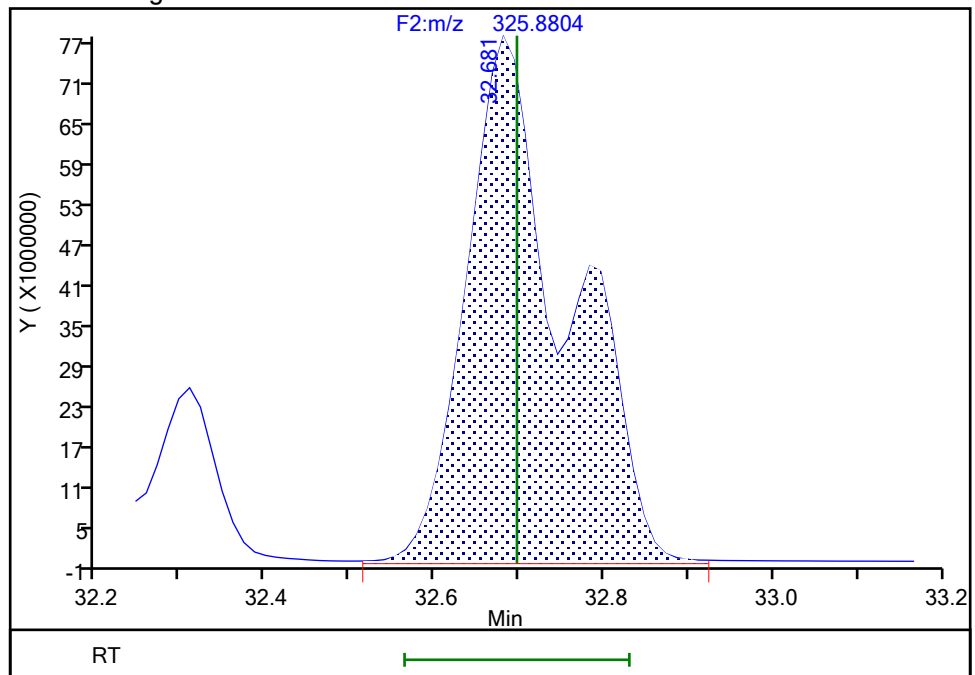
RT: 32.68  
Area: 444165024  
Amount: 10348  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.68  
Area: 646388537  
Amount: 14115  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

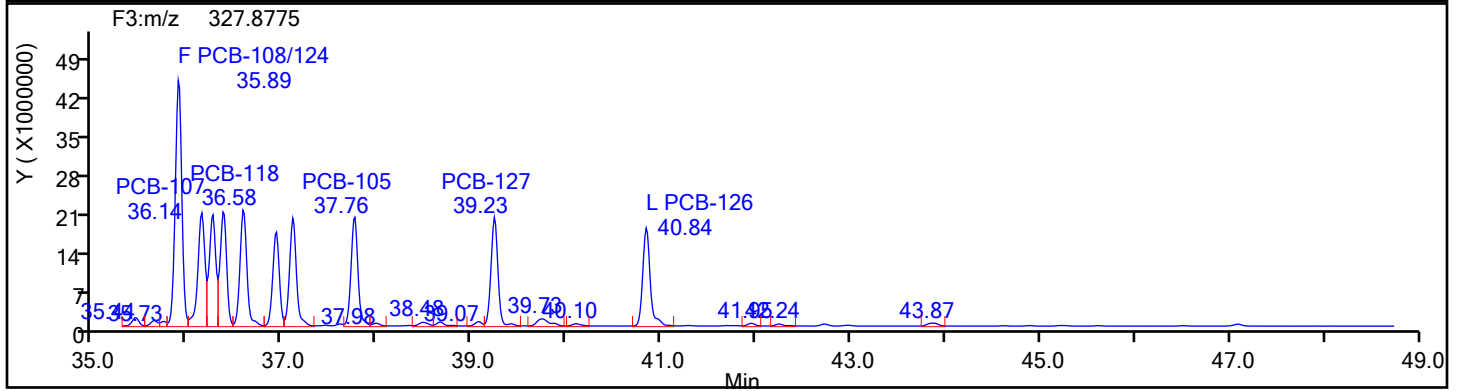
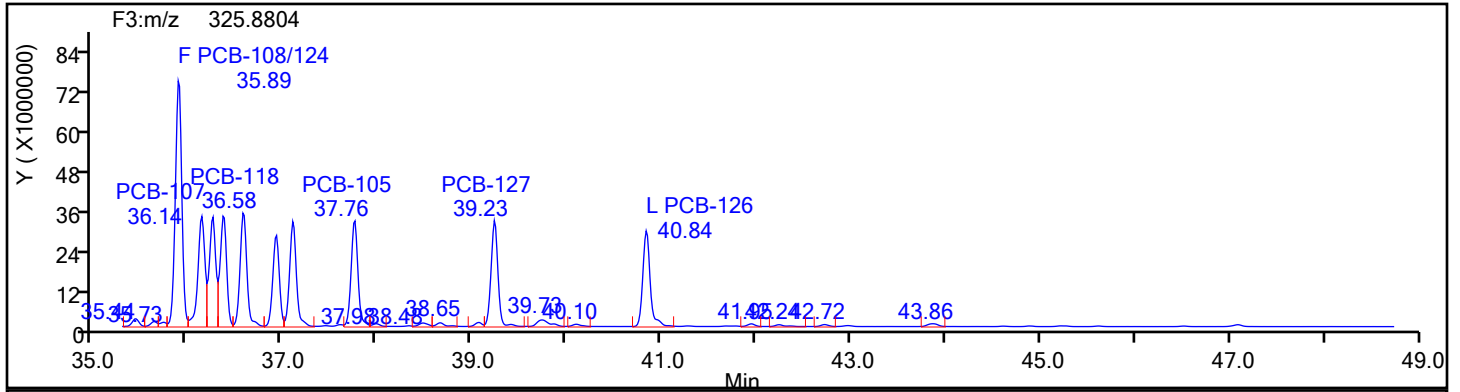
Worklist#: 87130

Sample Line#: 6

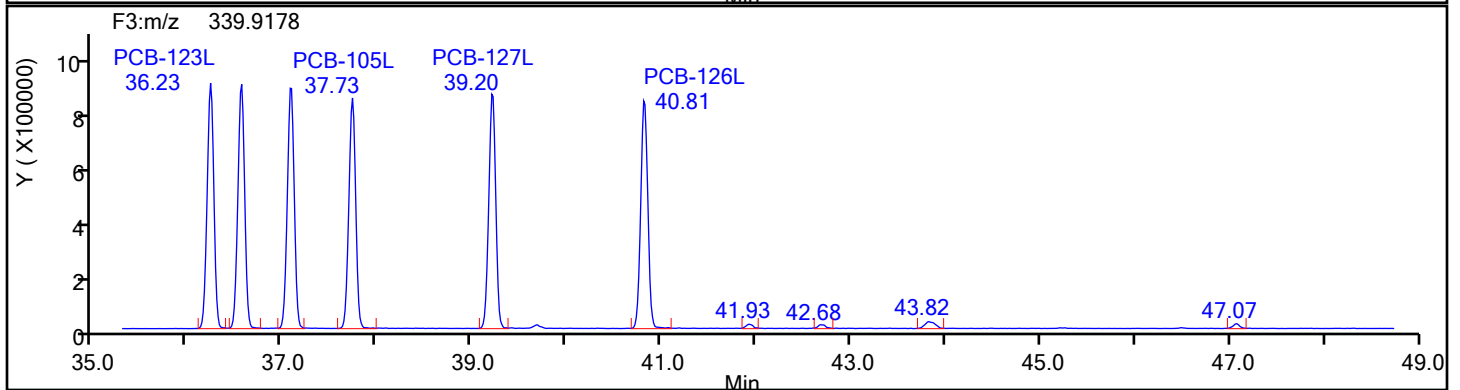
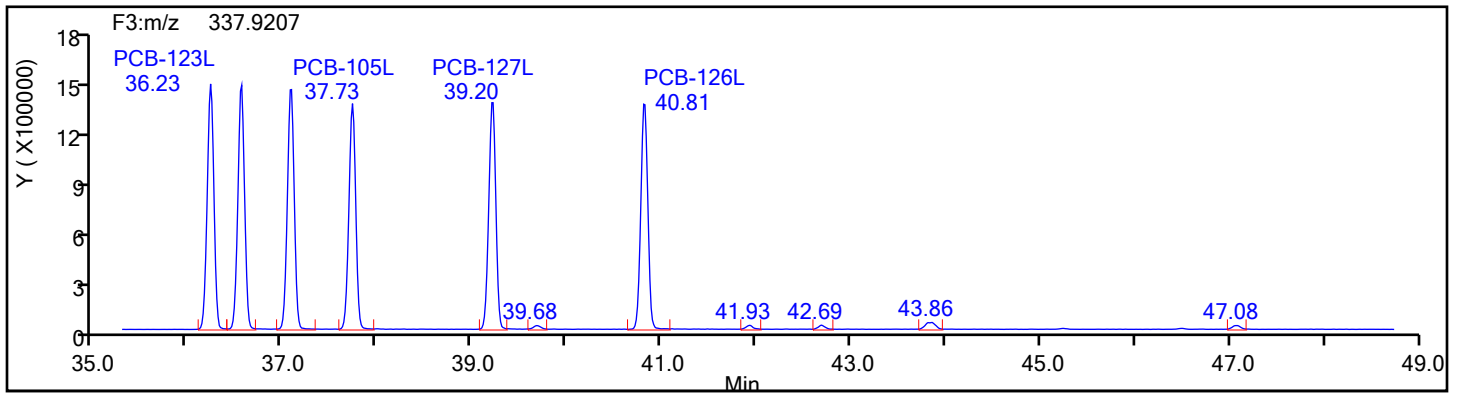
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

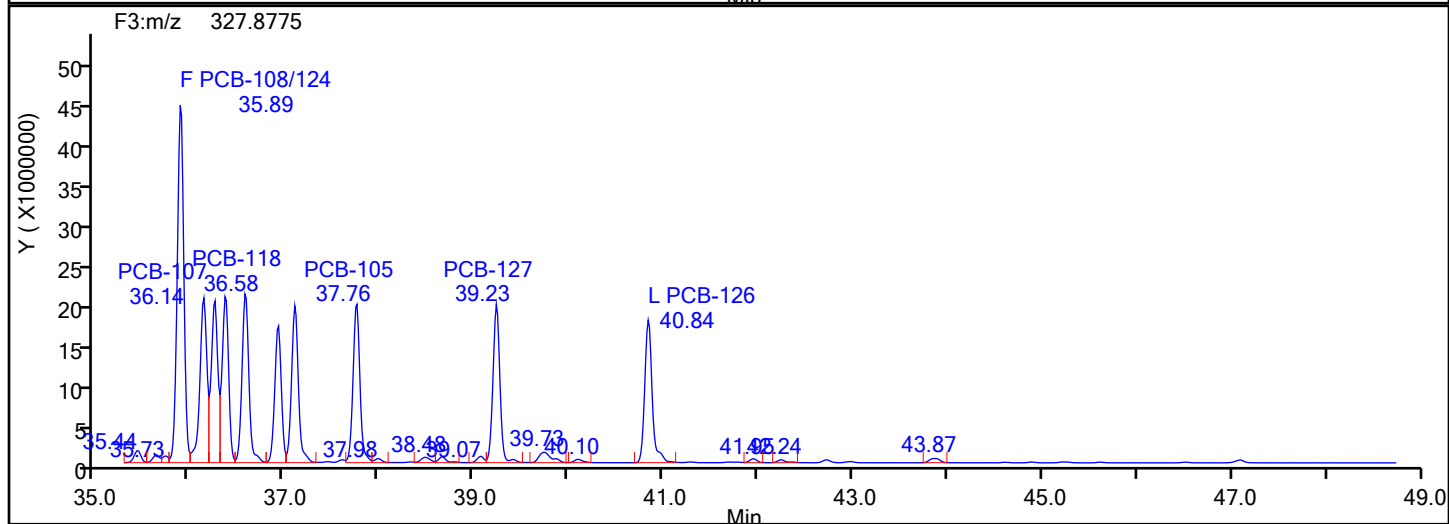
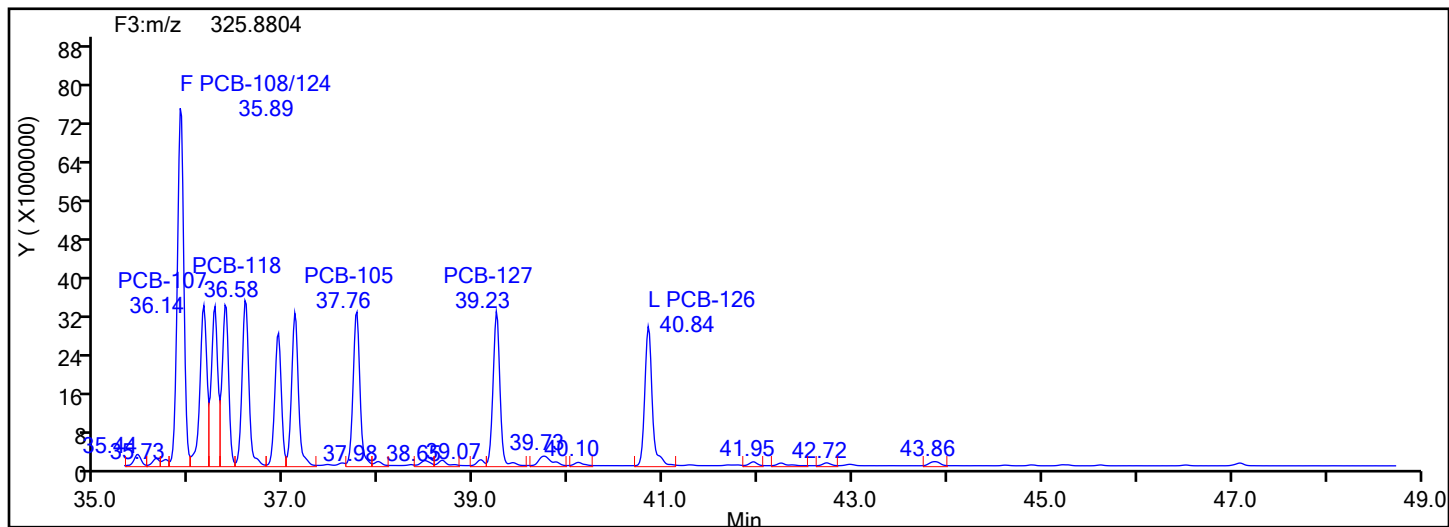
Worklist#: 87130

Sample Line#: 6

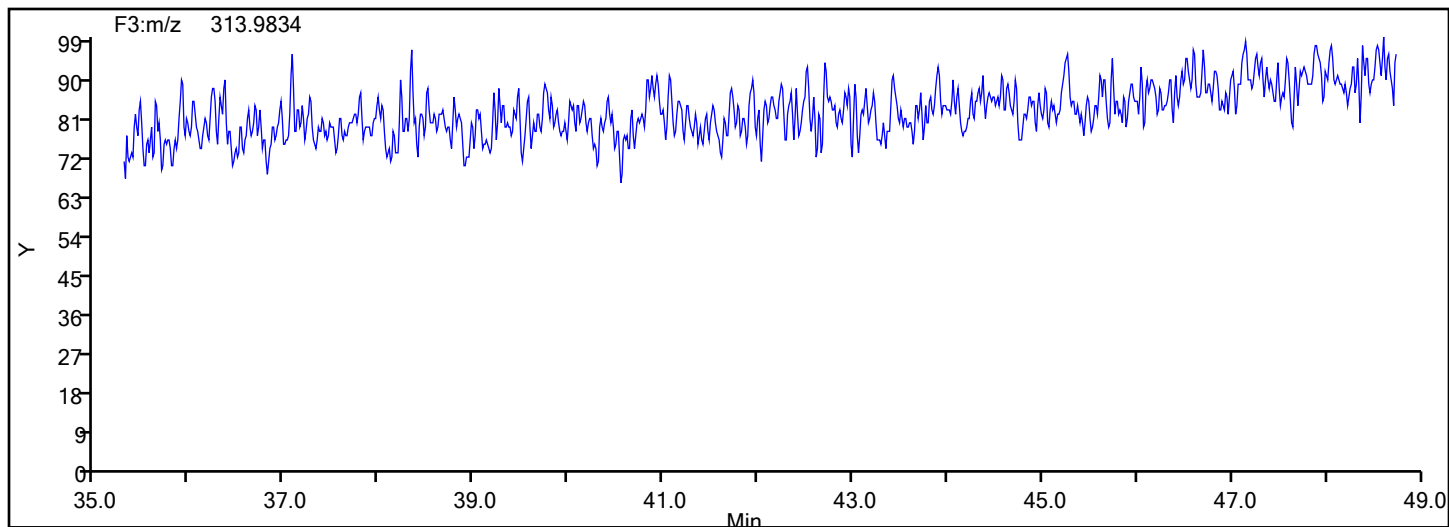
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



## PePCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

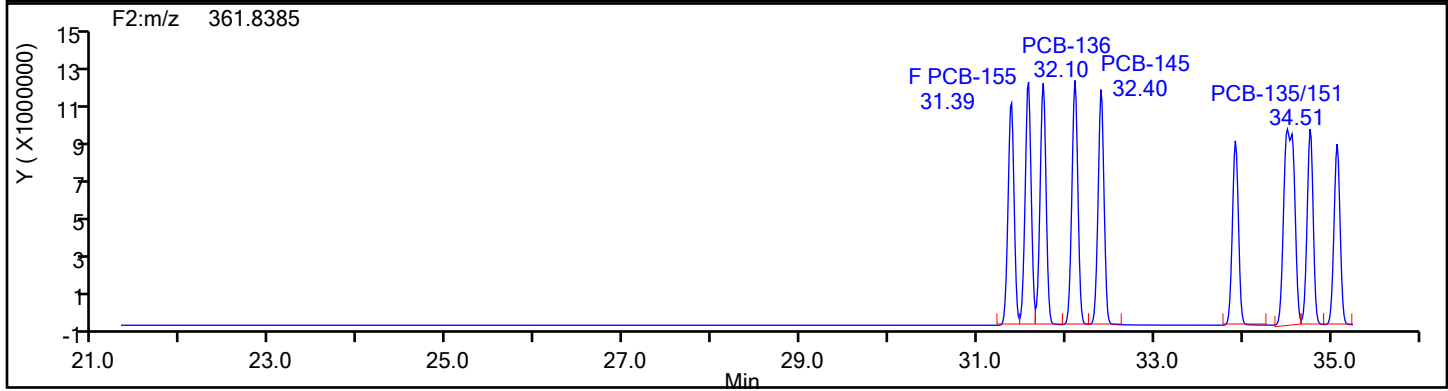
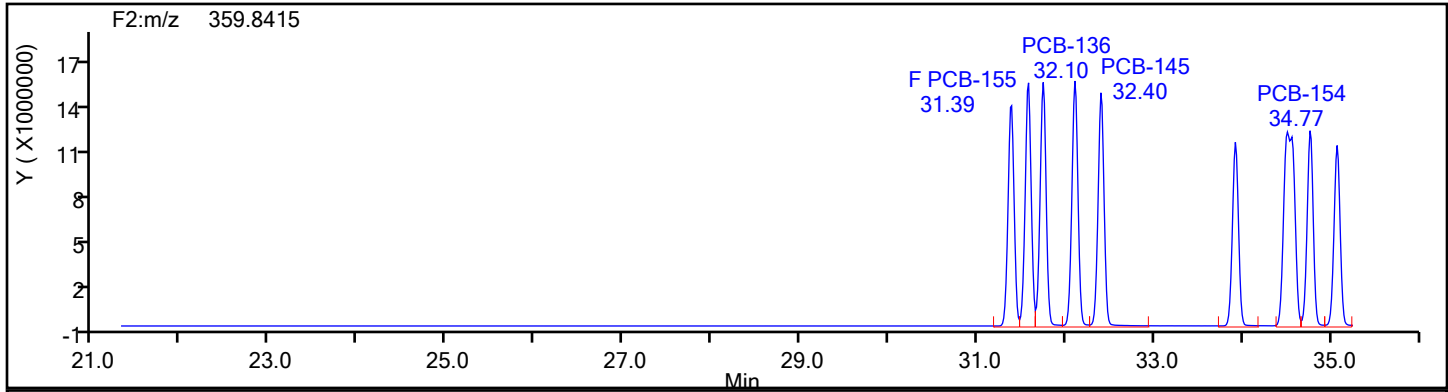
Worklist#: 87130

Sample Line#: 6

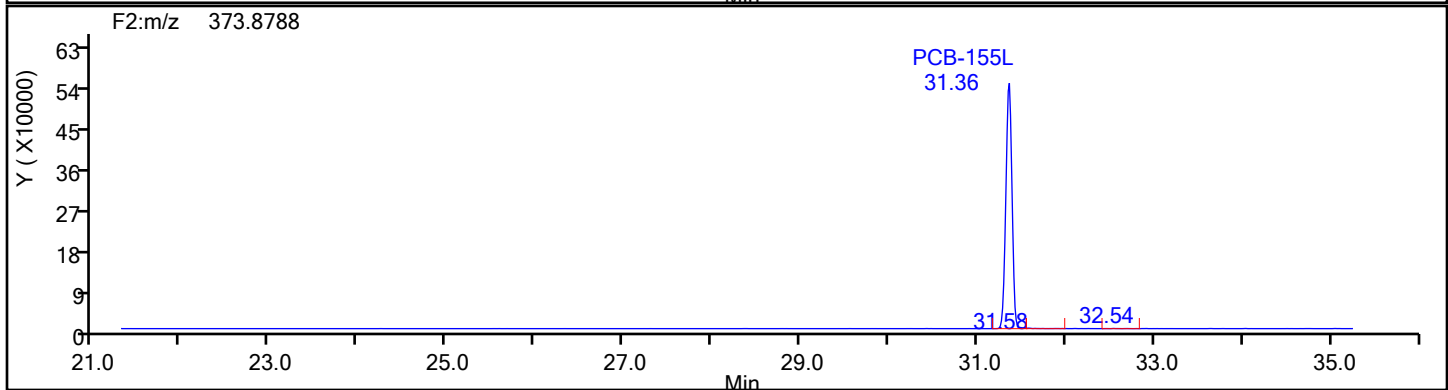
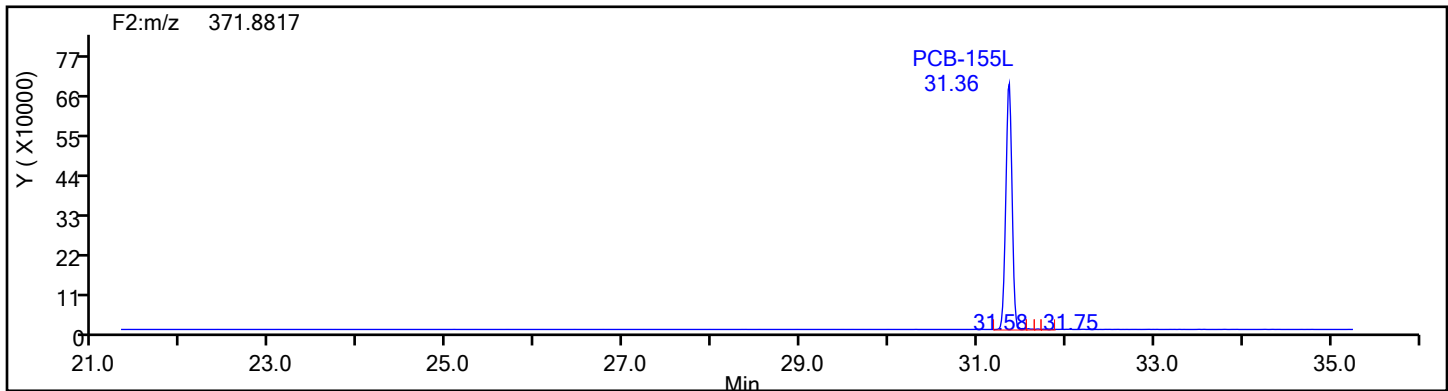
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

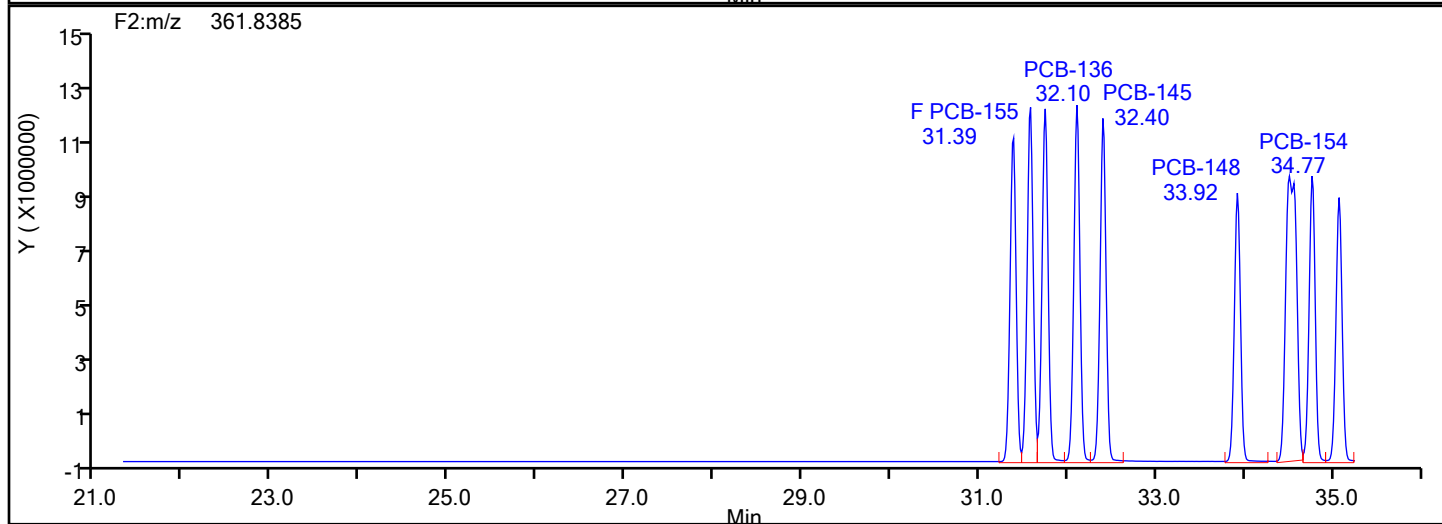
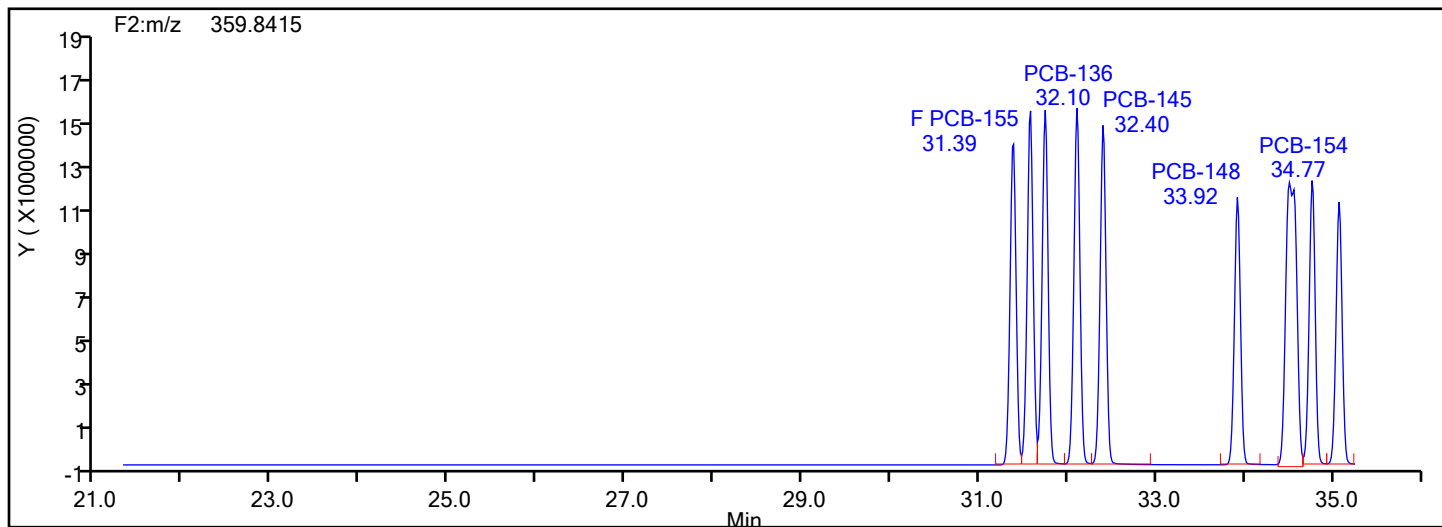


## HxPCB F2 Standards

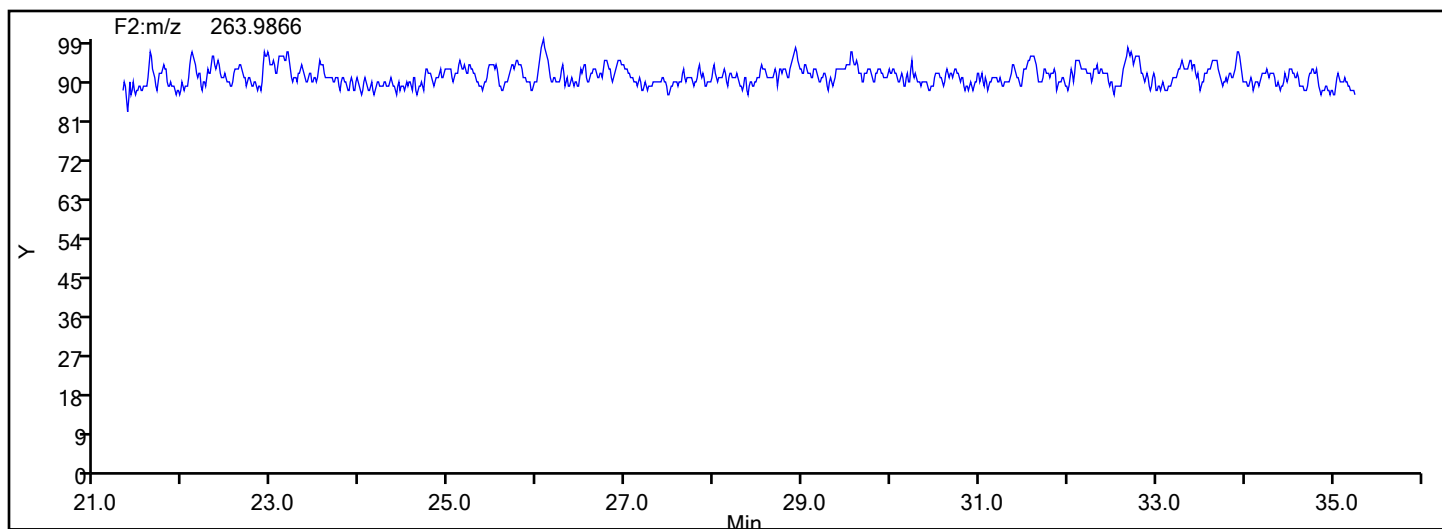


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d		
Injection Date:	31-May-2024 21:13:00	Instrument ID:	D2D
Lims ID:	IC L6		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl ( 0.25 mm)	Detector	F2(21.81 :35.5

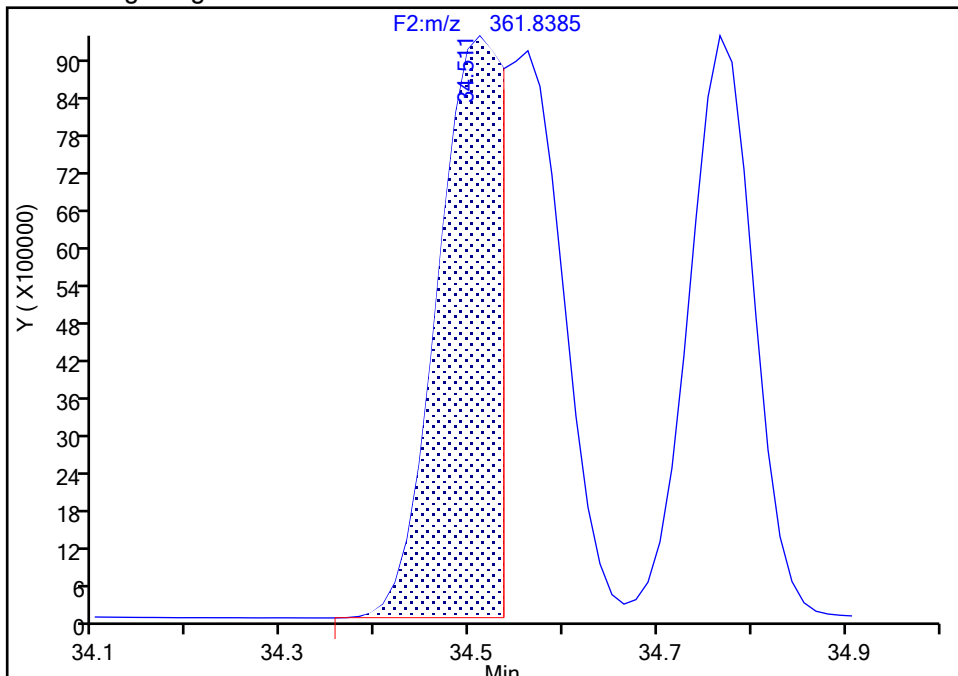
```

ALS Bottle#:      0           Worklist Smp#:      6
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F2(21.81 :35.54 )

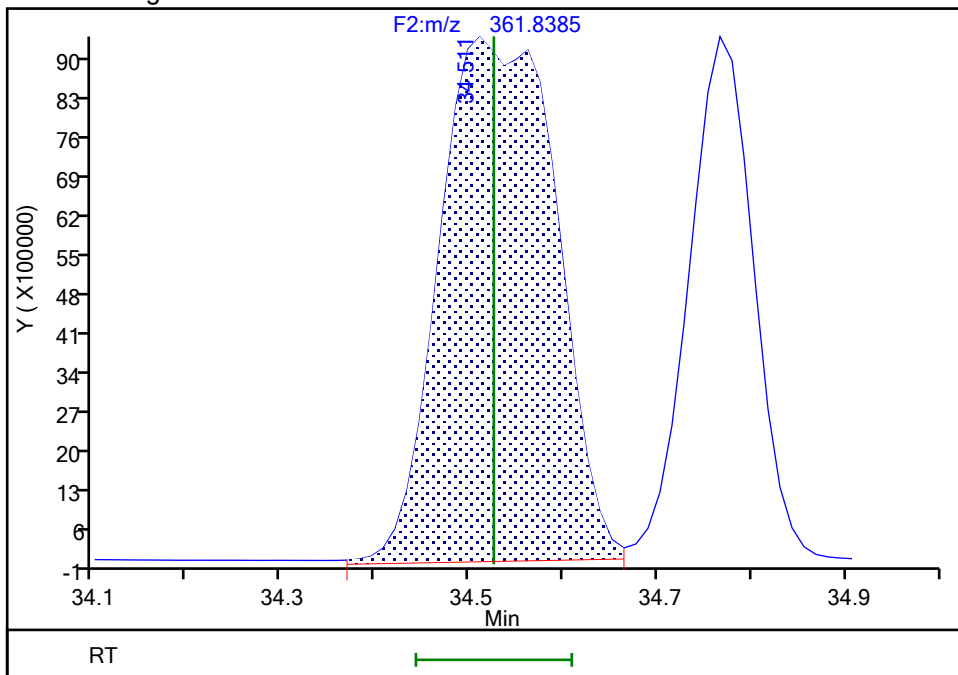
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Signal: 2

## Processing Integration Results



## Manual Integration Results



Audit Reason: Baseline

## Eurofins Knoxville

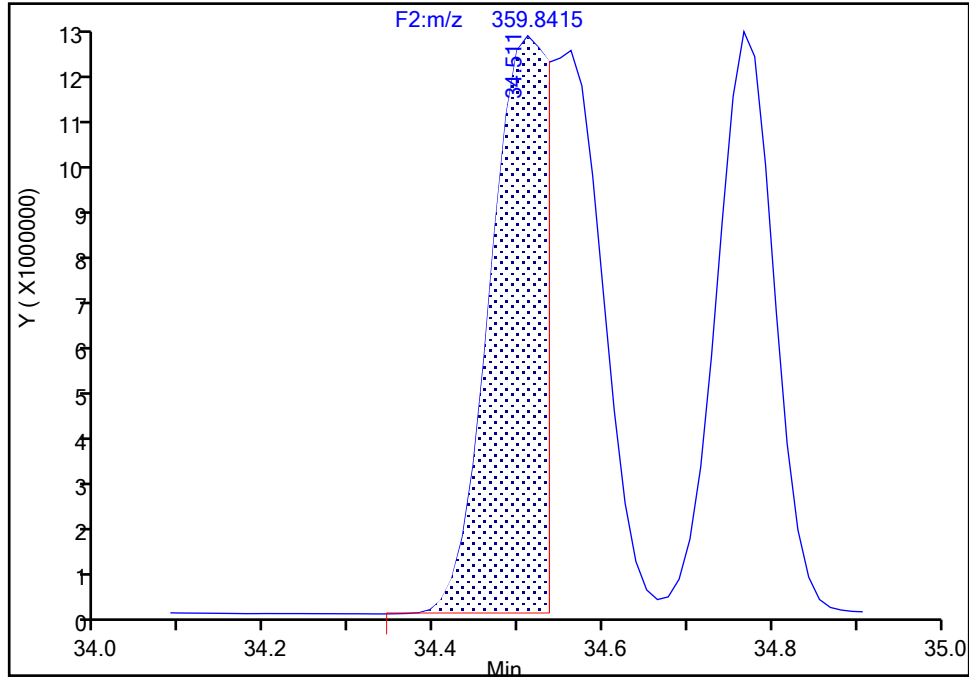
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 1

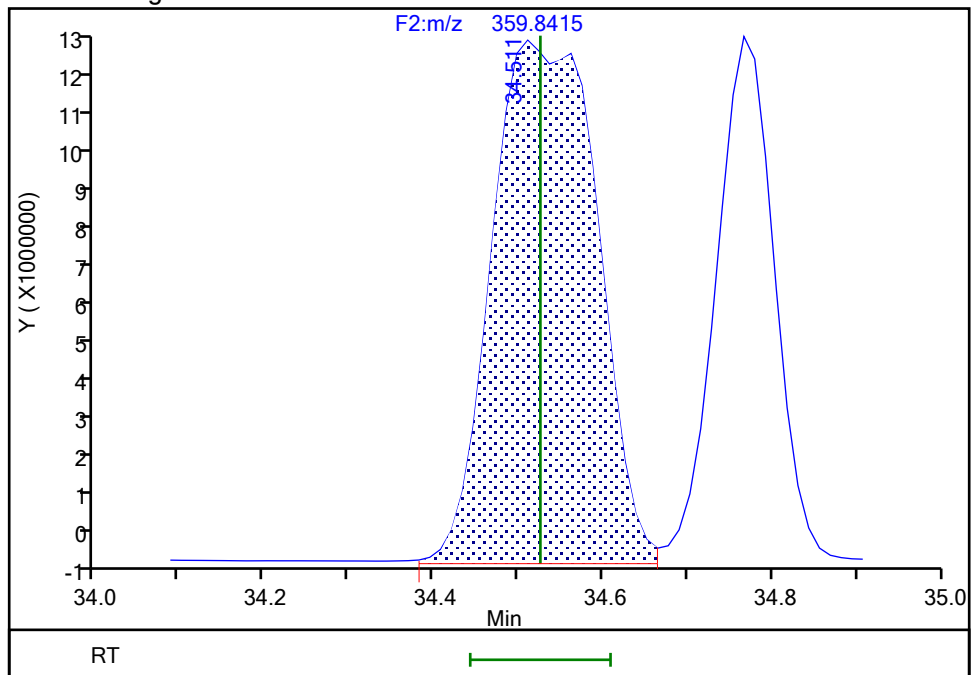
RT: 34.51  
Area: 54337182  
Amount: 2423.1663  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.51  
Area: 103820478  
Amount: 4229.7884  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:06:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-002024-04462  
9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

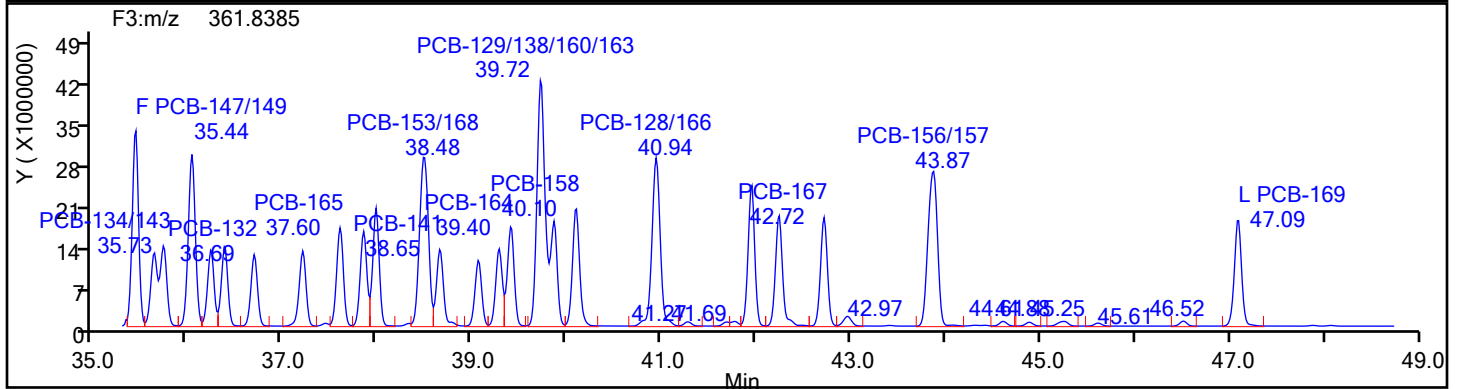
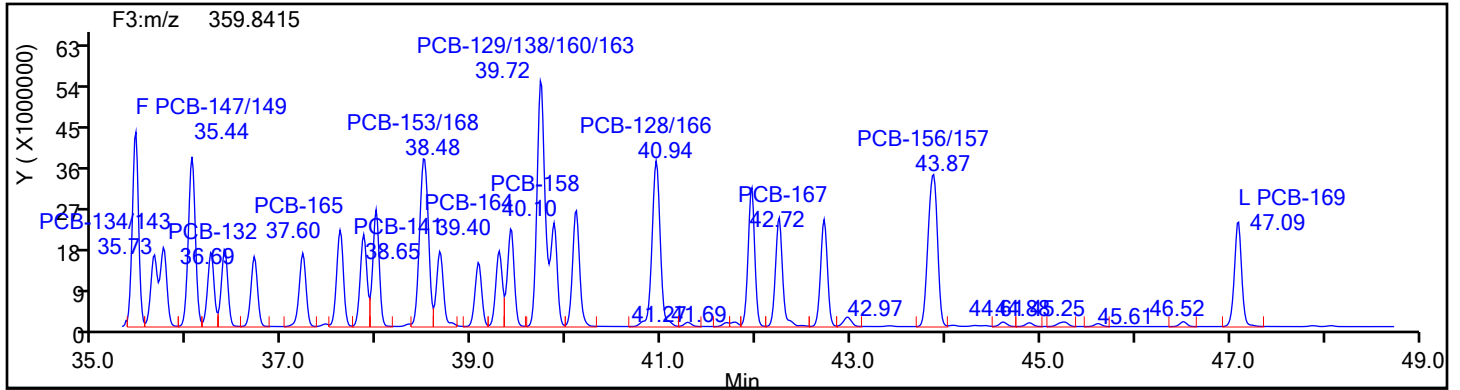
Worklist#: 87130

Sample Line#: 6

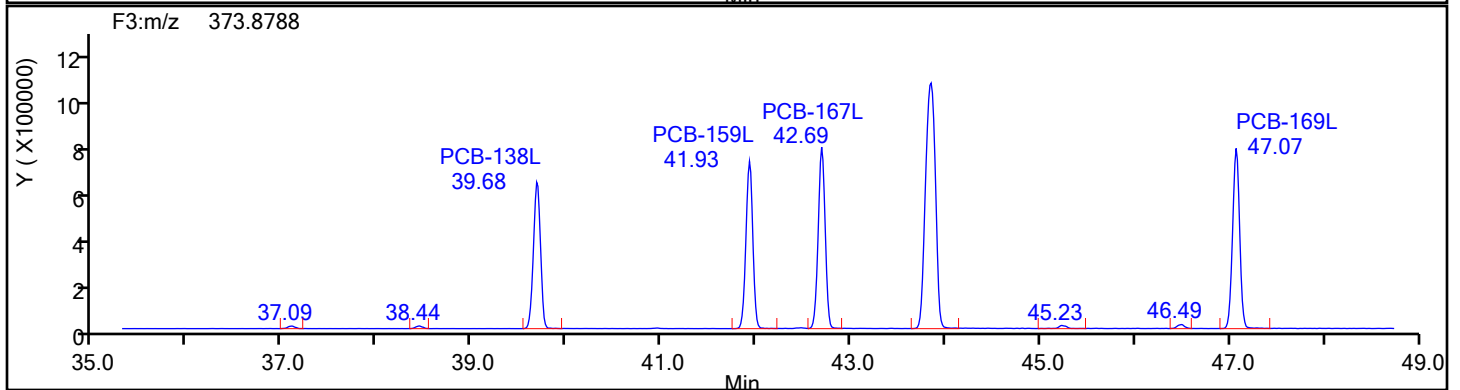
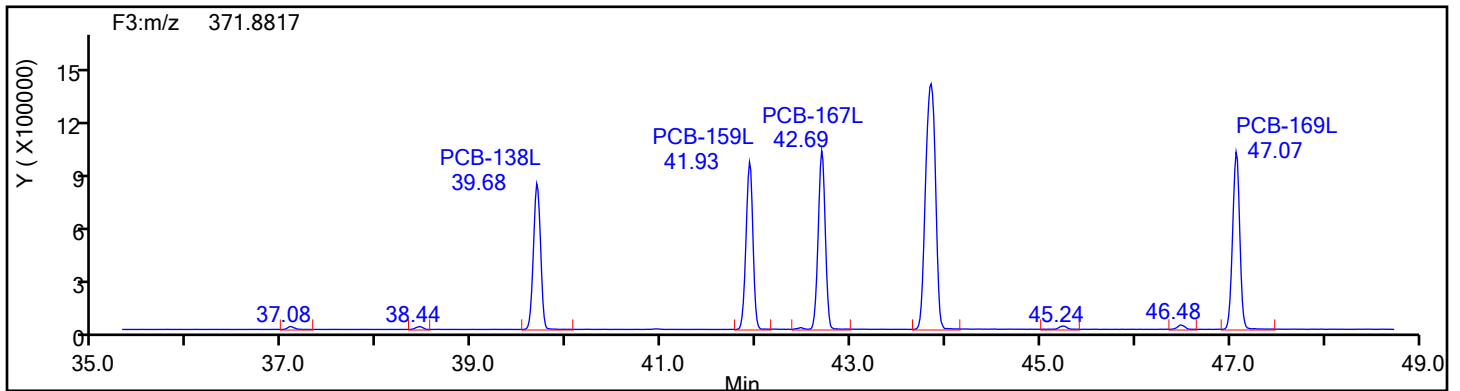
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

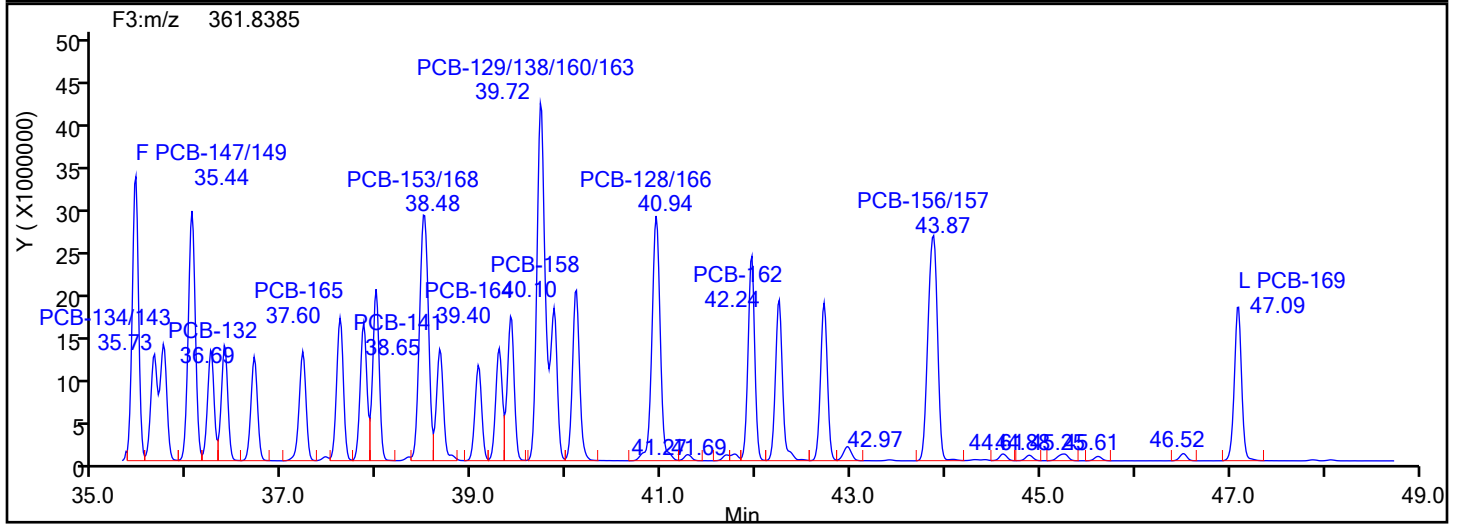
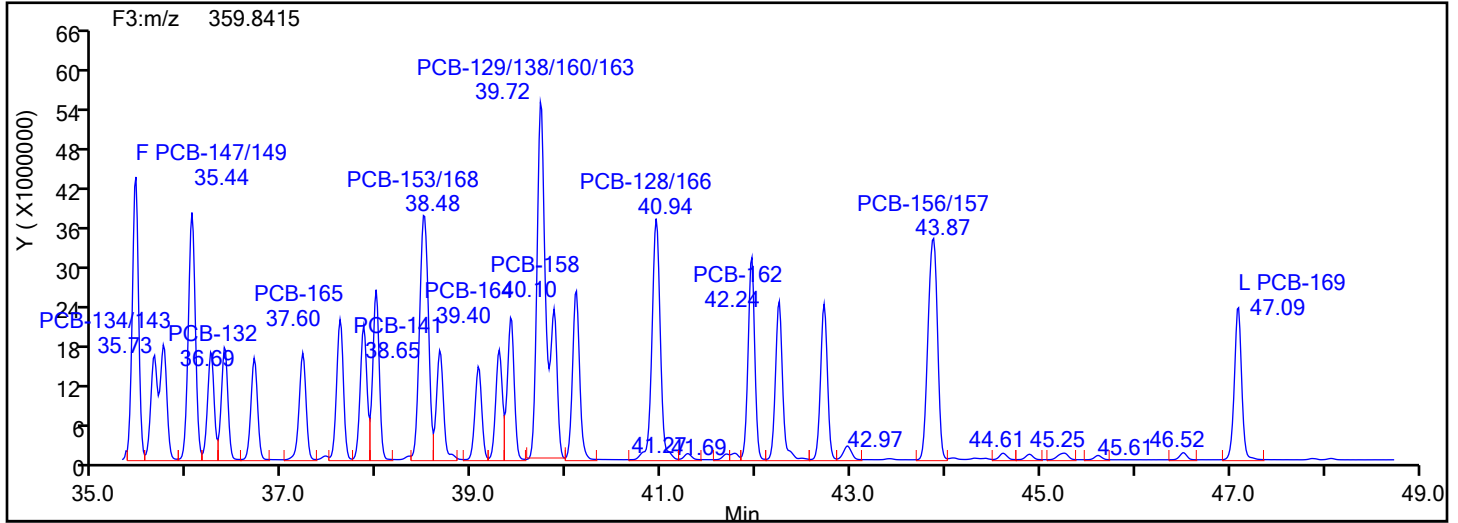
Worklist#: 87130

Sample Line#: 6

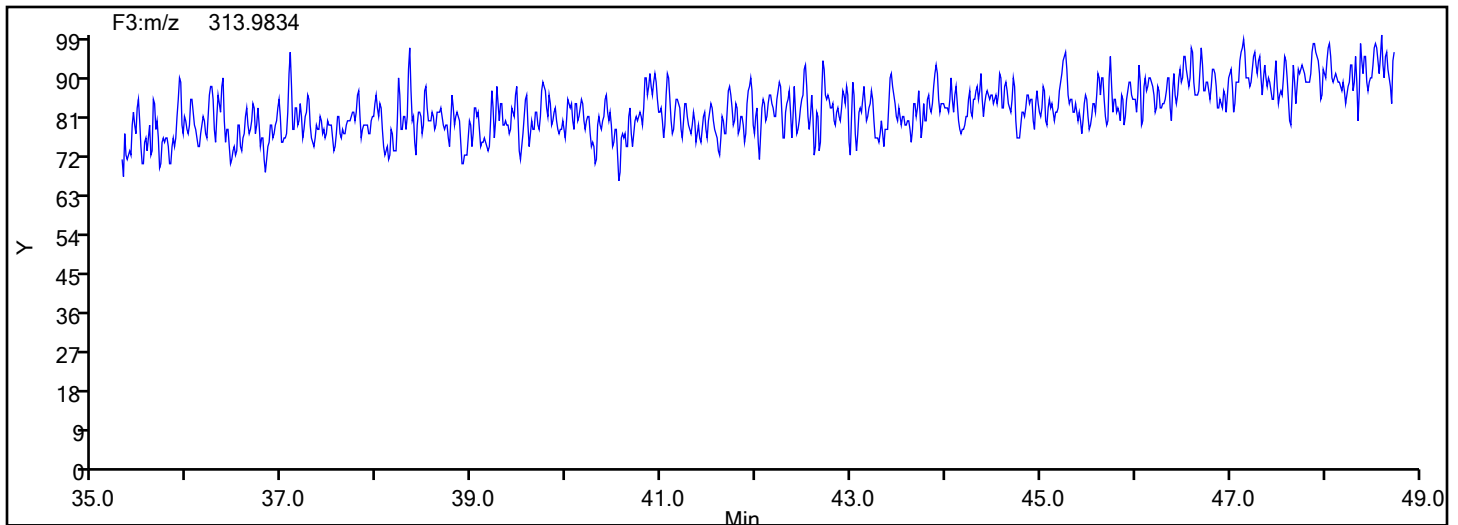
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass

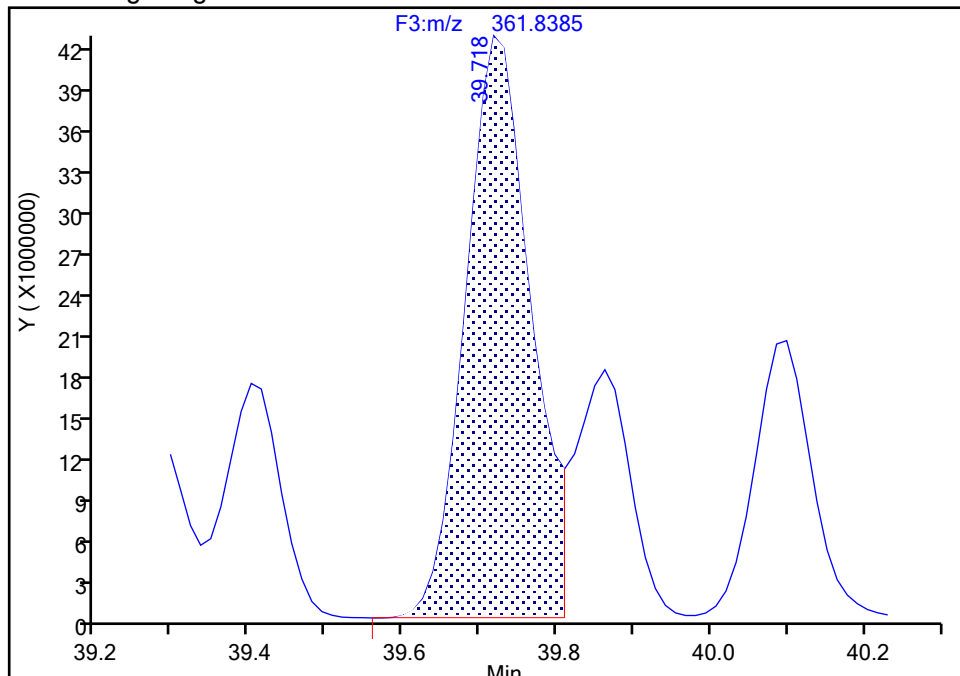


Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d		
Injection Date:	31-May-2024 21:13:00	Instrument ID:	D2D
Lims ID:	IC L6		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

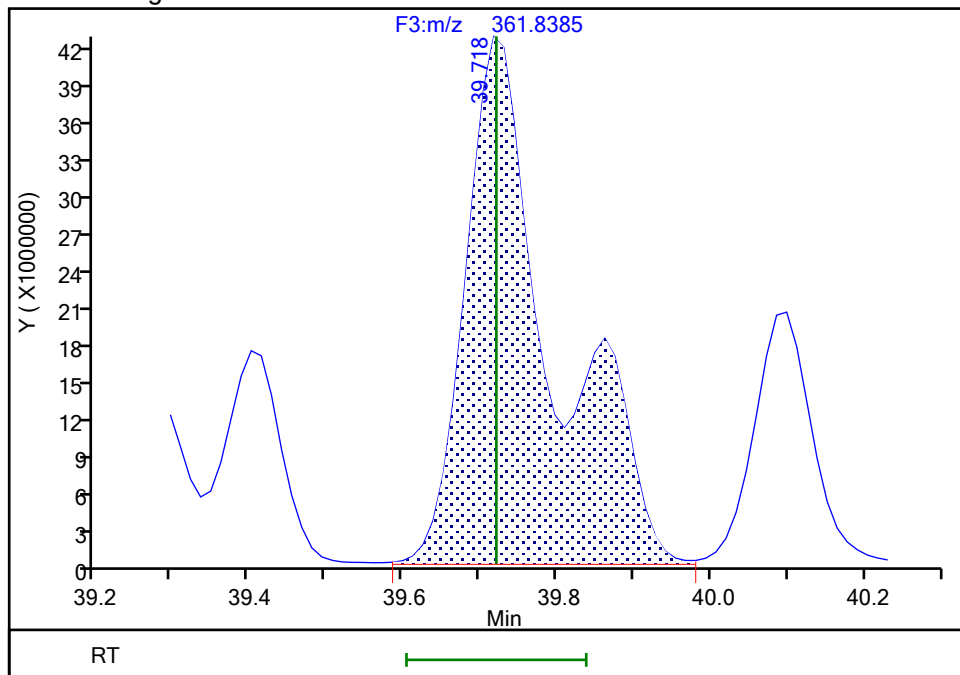
ALS Bottle#:	0	Worklist Smp#:	6
Dil. Factor:	1.0000		
Limit Group:	HR - EPA_23 PCB ICAL		
Detector	F3(35.64 :49.10 )		

Signal: 2

## Processing Integration Results



## Manual Integration Results



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

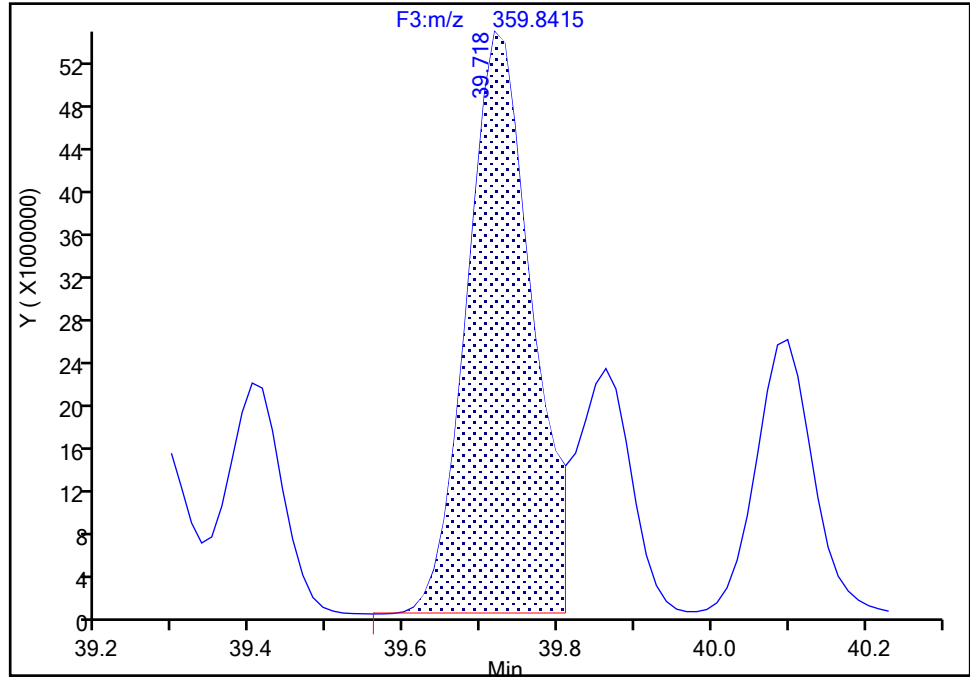
Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

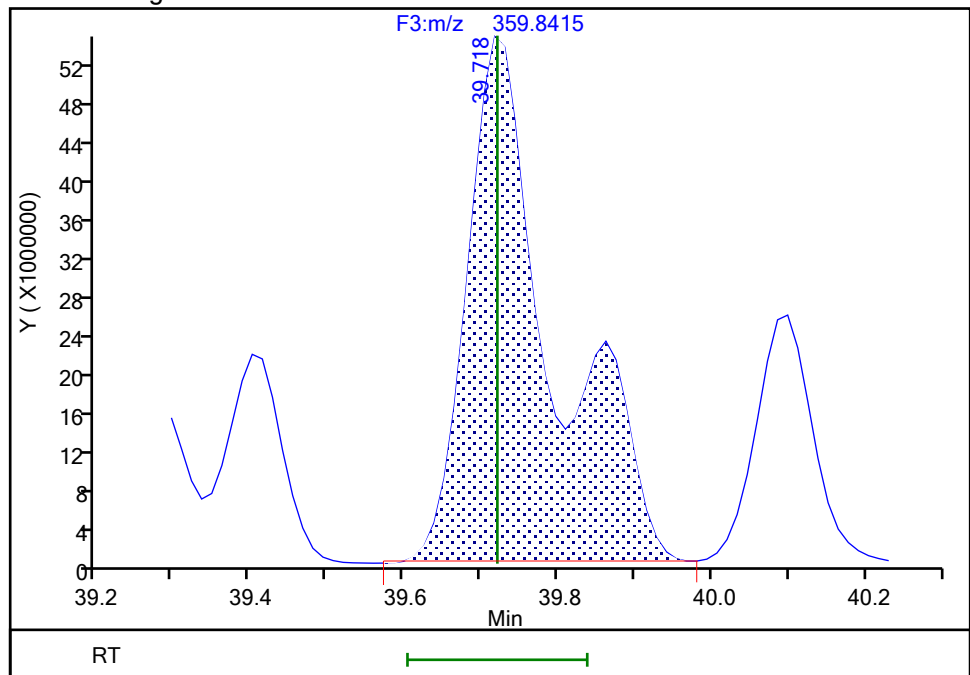
RT: 39.72  
Area: 318487189  
Amount: 6869.7619  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.72  
Area: 427397226  
Amount: 8823.7691  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

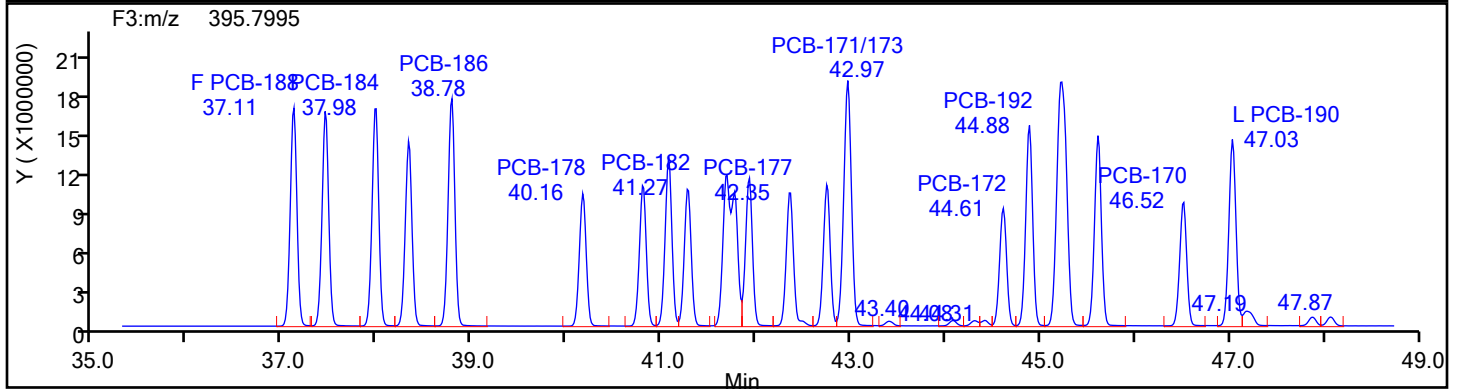
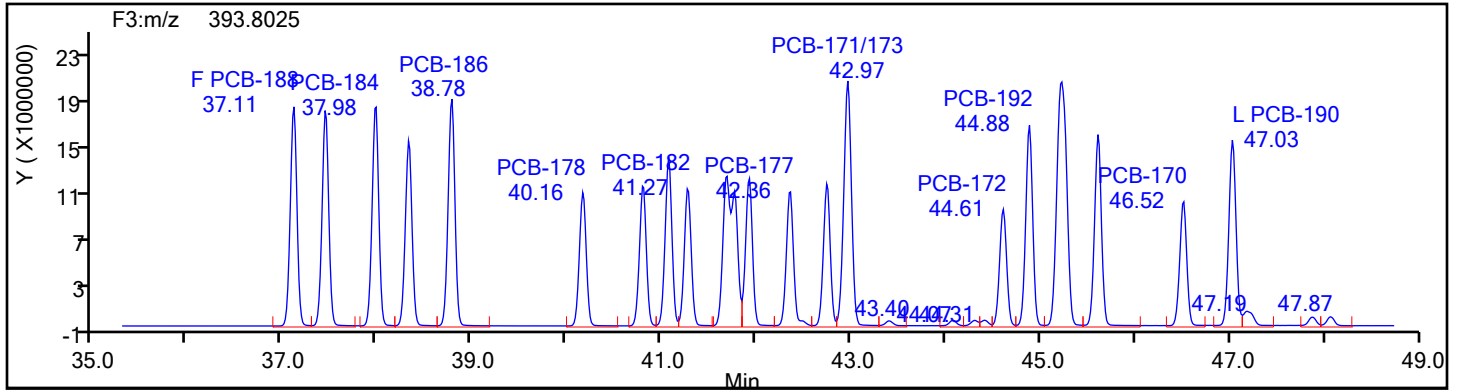
Worklist#: 87130

Sample Line#: 6

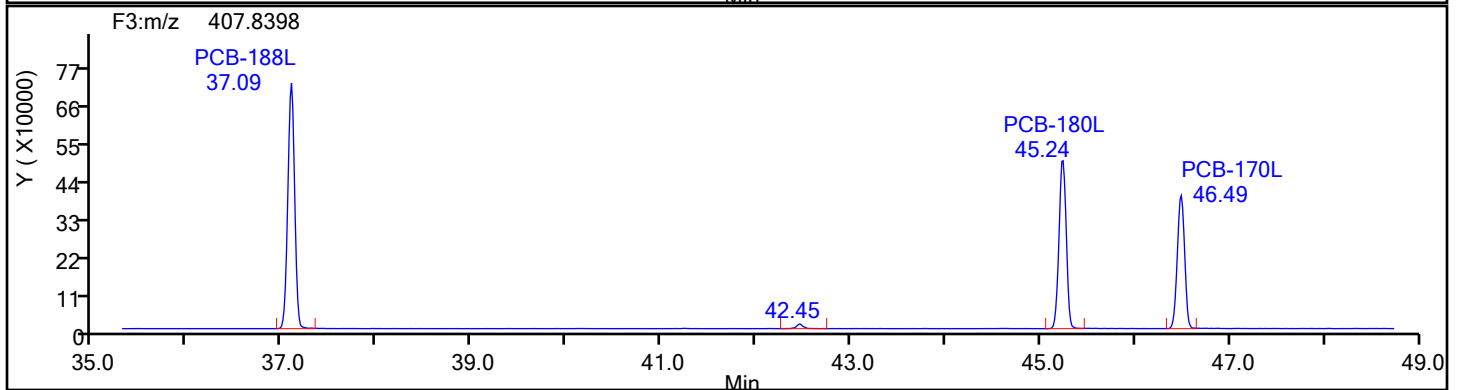
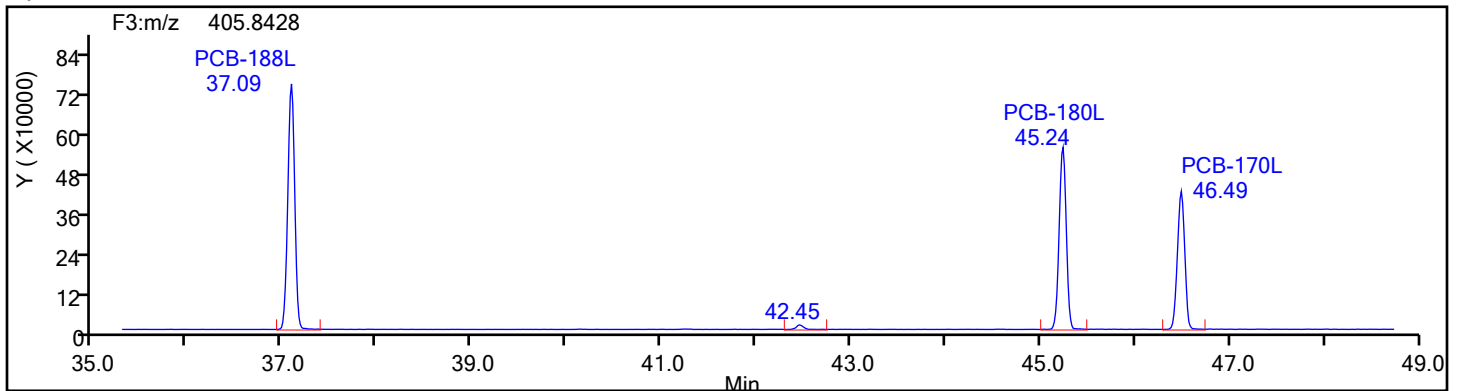
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

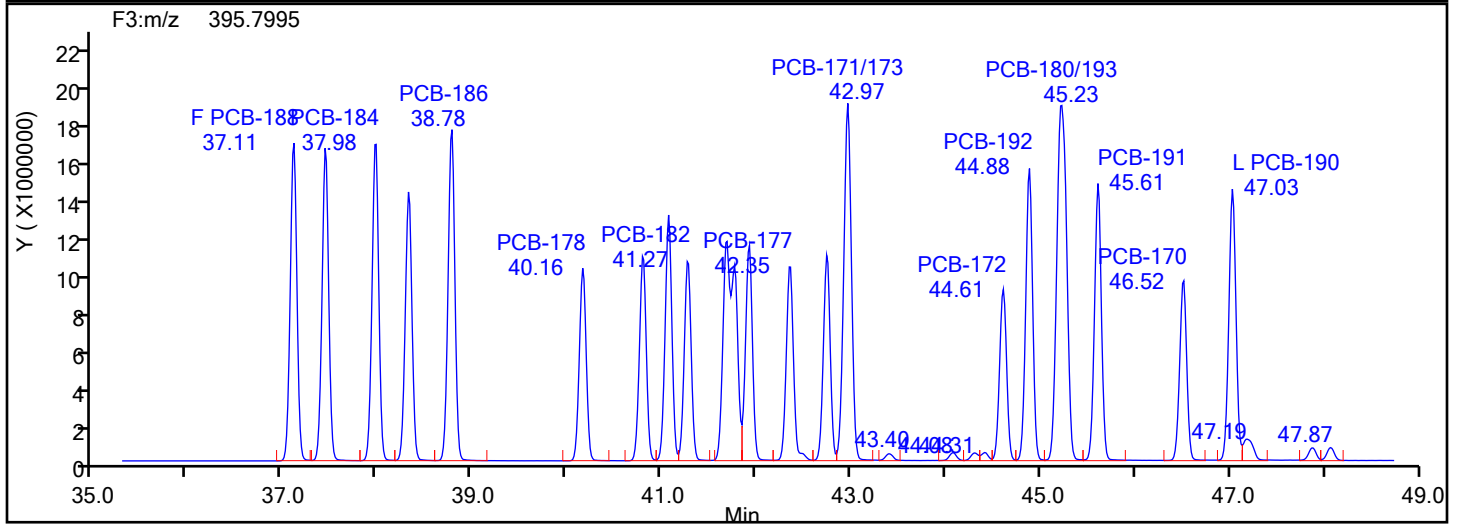
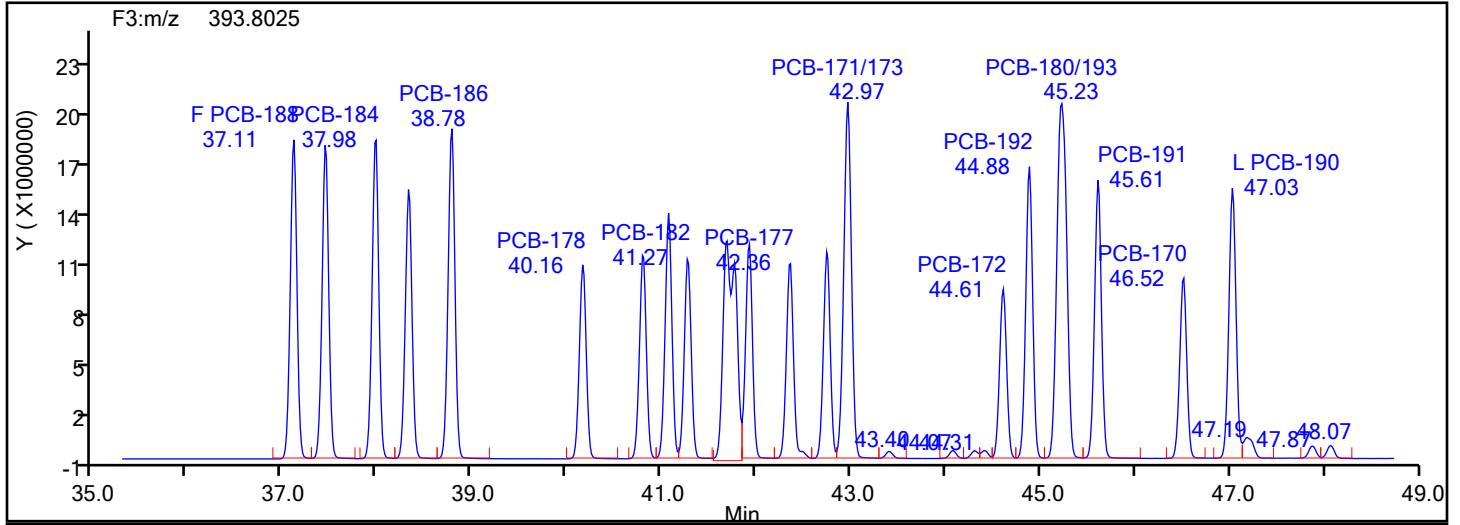
Worklist#: 87130

Sample Line#: 6

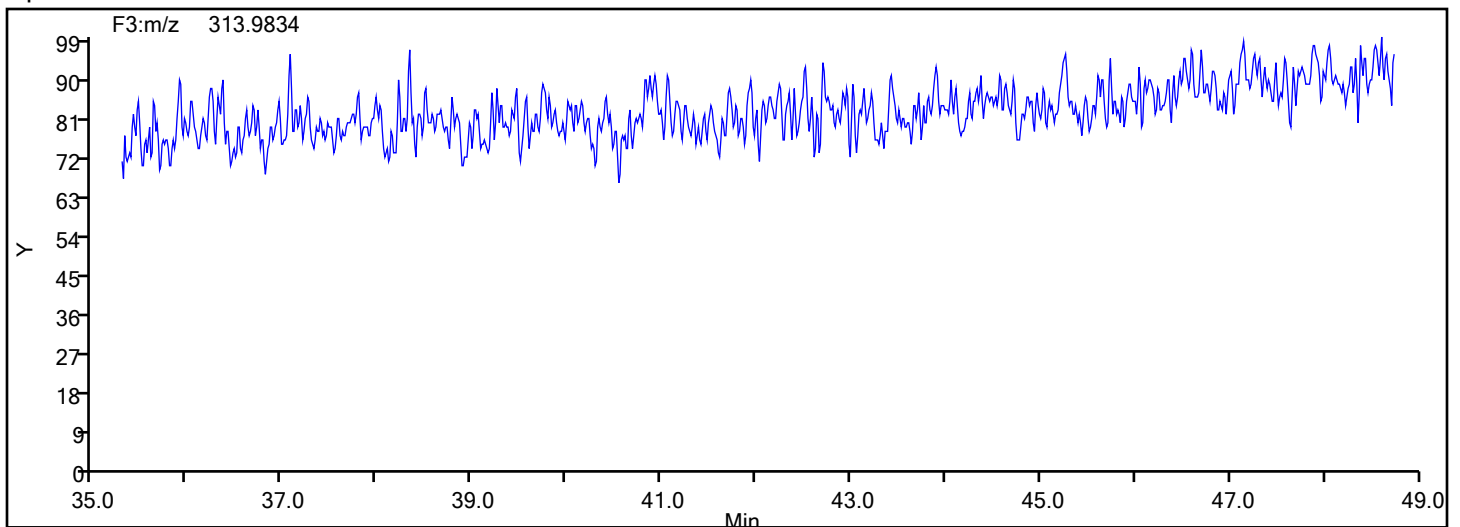
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass

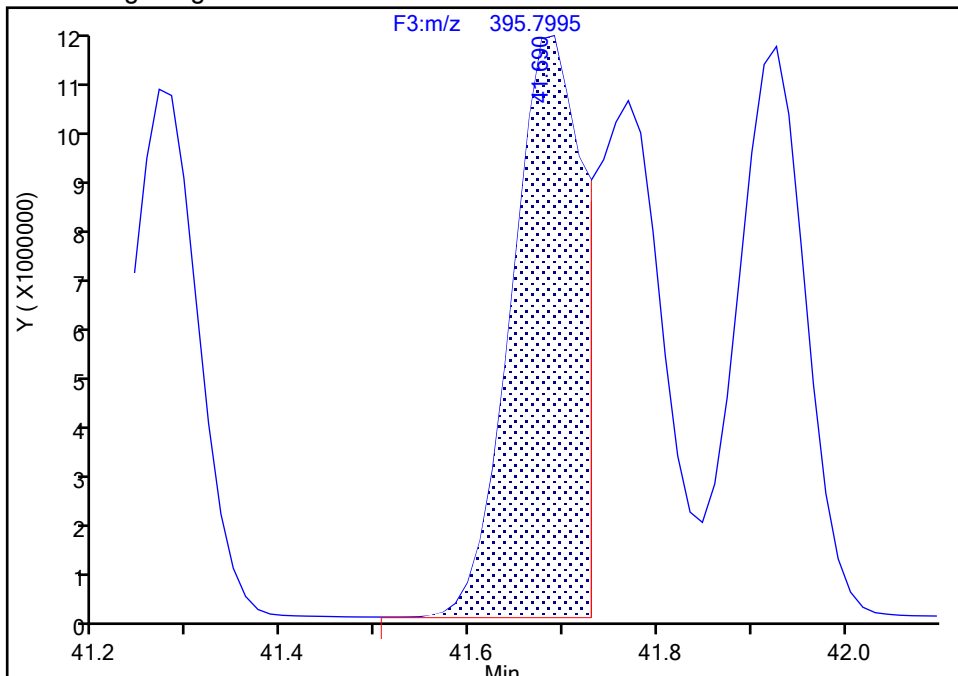


Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d		
Injection Date:	31-May-2024 21:13:00	Instrument ID:	D2D
Lims ID:	IC L6		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

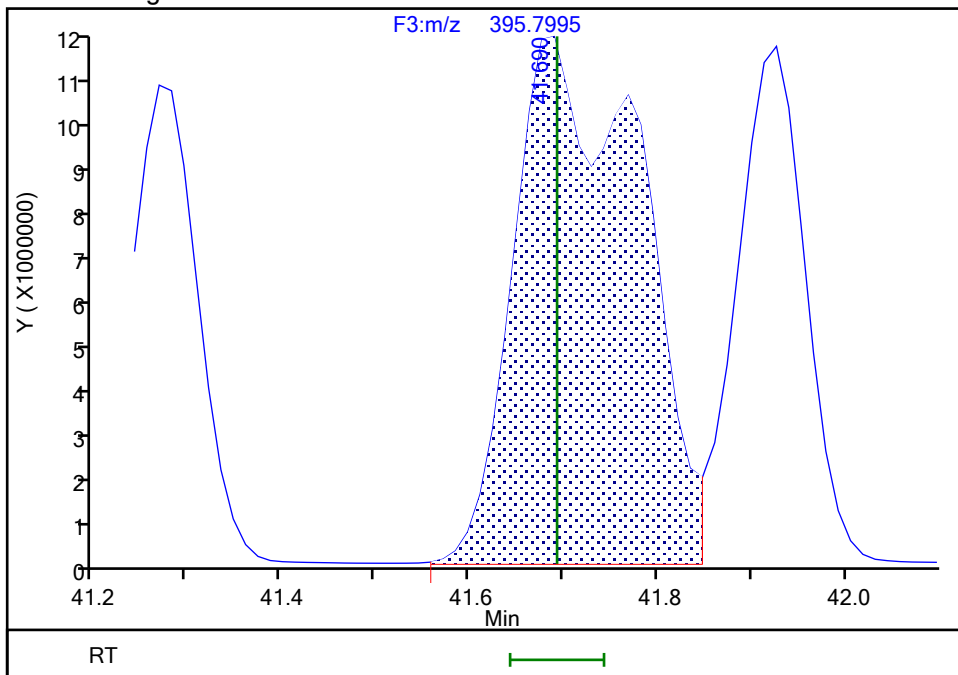
ALS Bottle#:	0	Worklist Smp#:	6
Dil. Factor:	1.0000		
Limit Group:	HR - EPA_23 PCB ICAL		
Detector	F3(35.64 :49.10 )		

Signal: 2

## Processing Integration Results



## Manual Integration Results



## Eurofins Knoxville

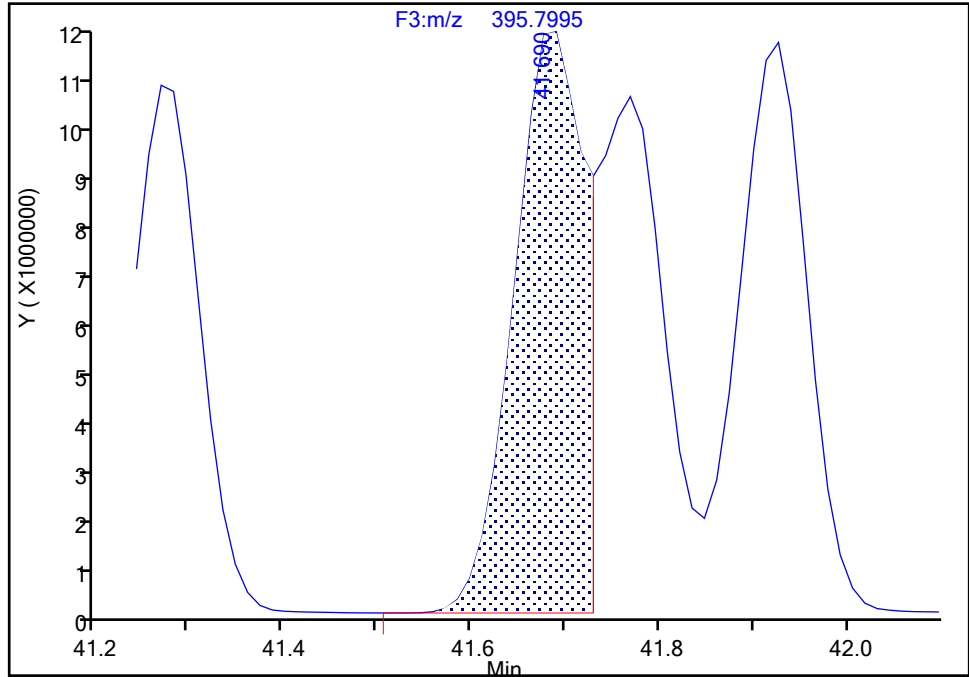
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 2

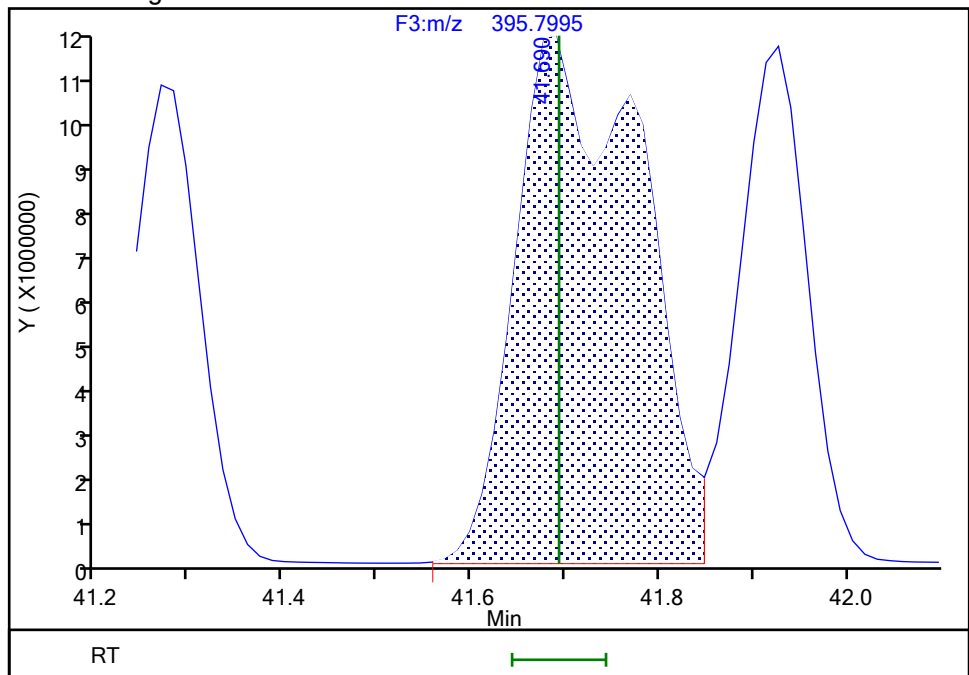
RT: 41.69  
Area: 60297364  
Amount: 2295.3297  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.69  
Area: 109695368  
Amount: 3898.4922  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:07:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

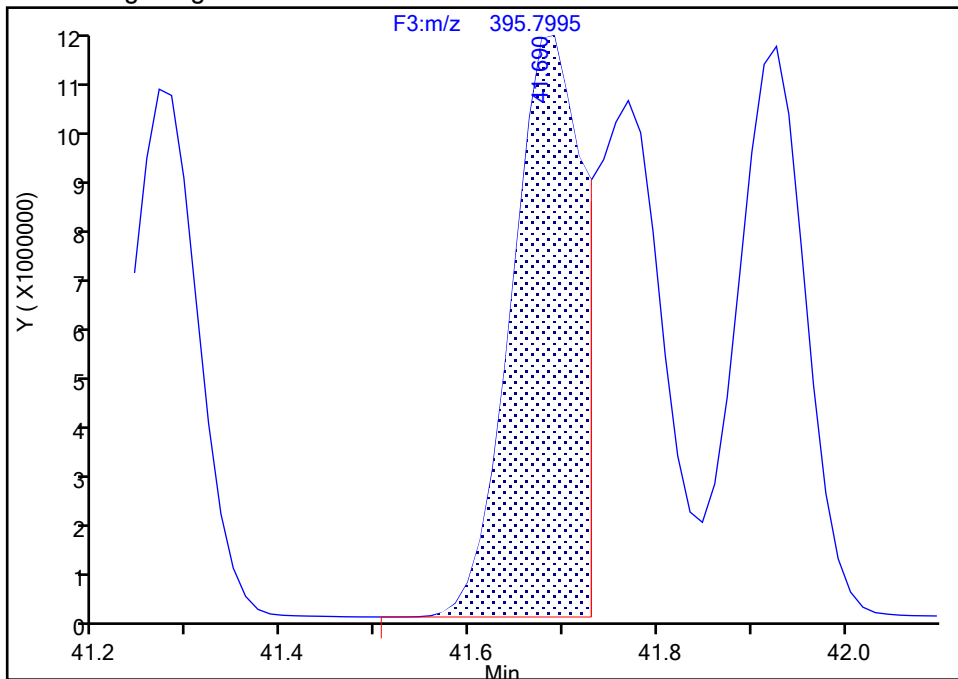
Audit Reason: Invalid Compound ID



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d		
Injection Date:	31-May-2024 21:13:00	Instrument ID:	D2D
Lims ID:	IC L6		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0 W
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

Signal: 3

RT: 41.69  
Area: 123693877  
Amount: 2295.3297  
Amount Units: pg/ul



RT: 41.69  
Area: 226842465  
Amount: 3898.4922  
Amount Units: pg/ul

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

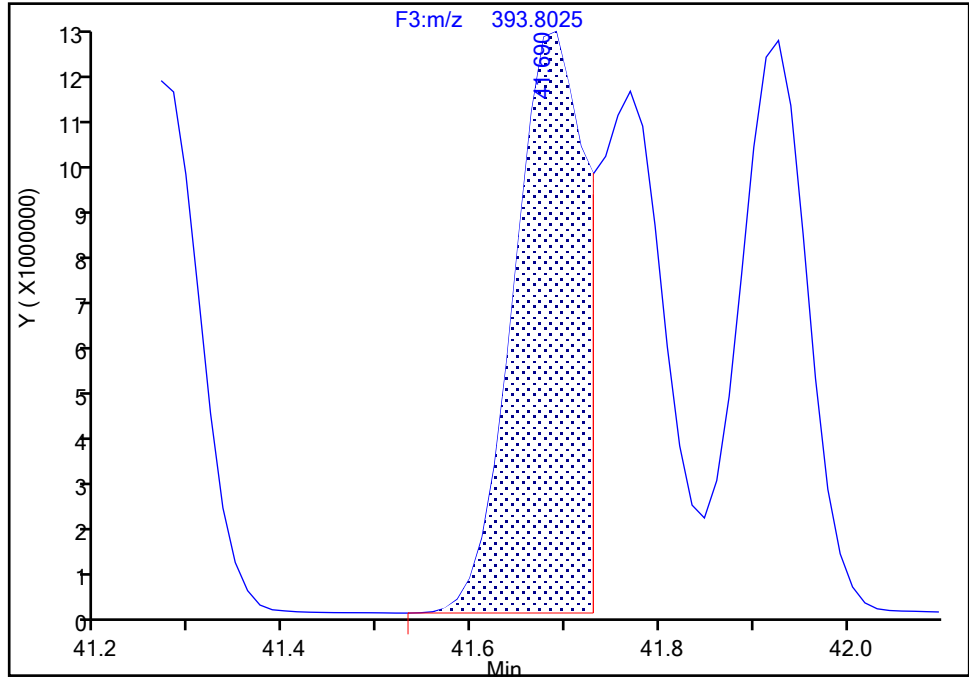
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Instrument ID: D2D  
Lims ID: IC L6  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 1

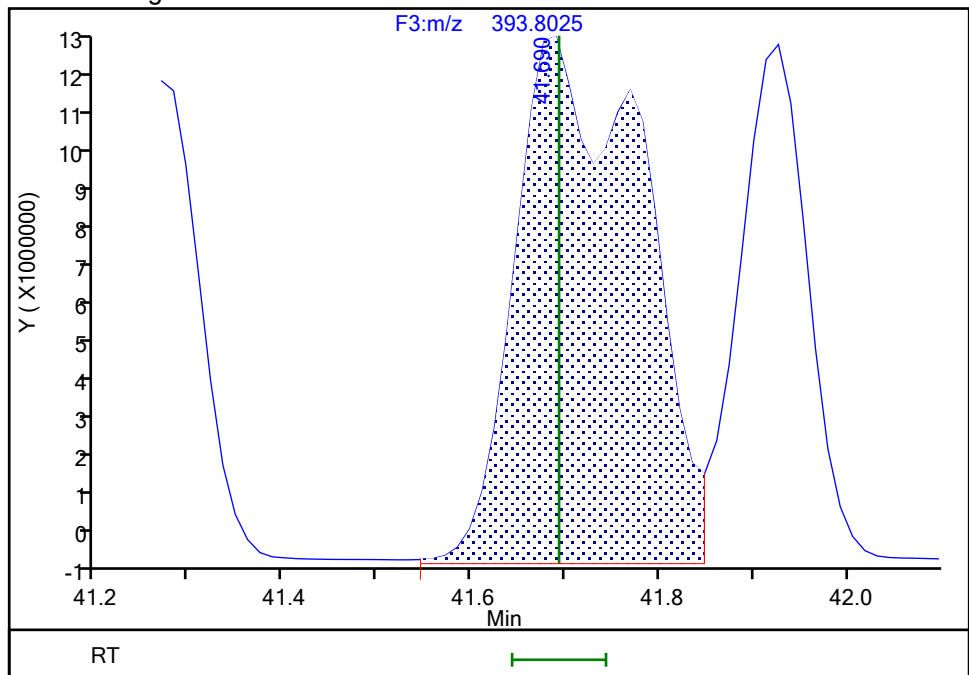
RT: 41.69  
Area: 63396513  
Amount: 2295.3297  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.69  
Area: 117147097  
Amount: 3898.4922  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 01-Jun-2024 03:08:01 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

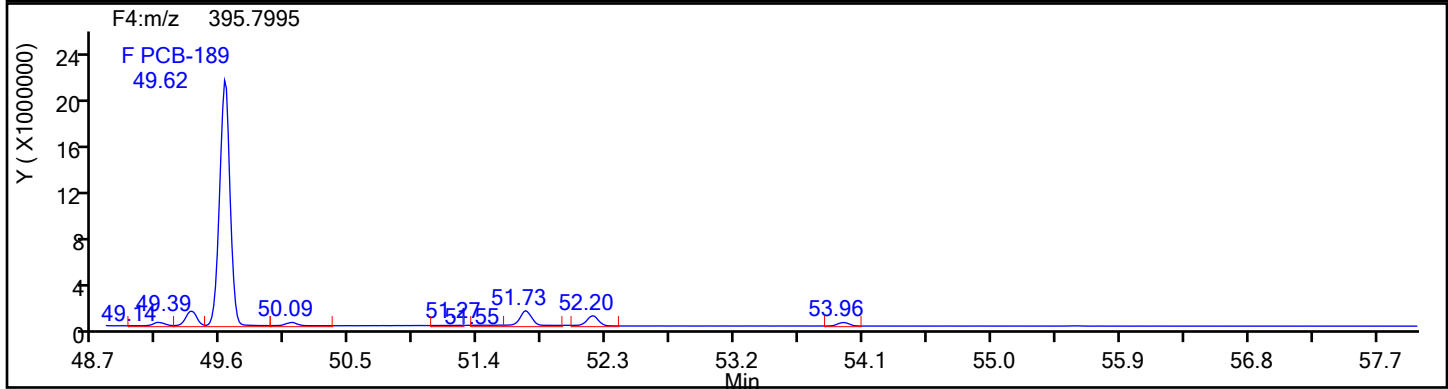
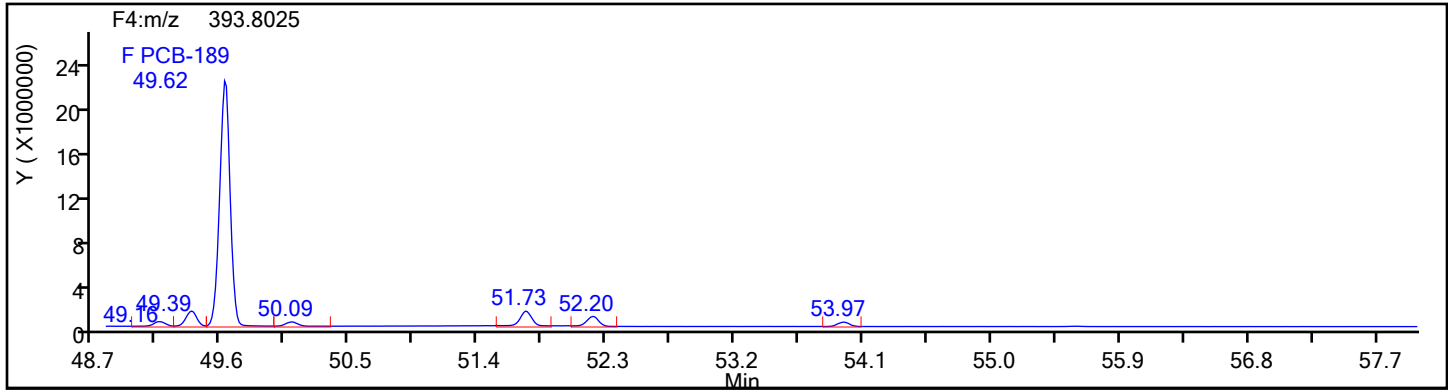
Worklist#: 87130

Sample Line#: 6

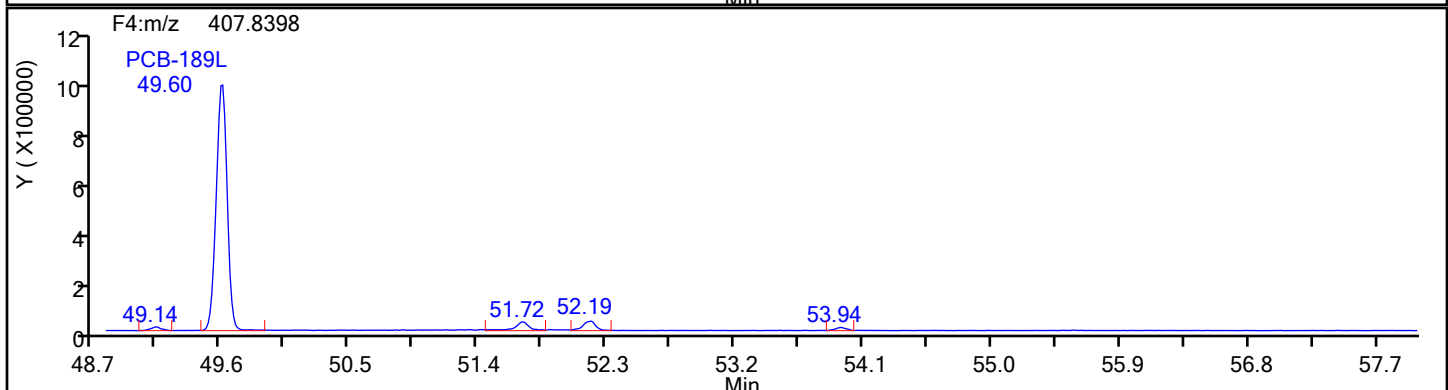
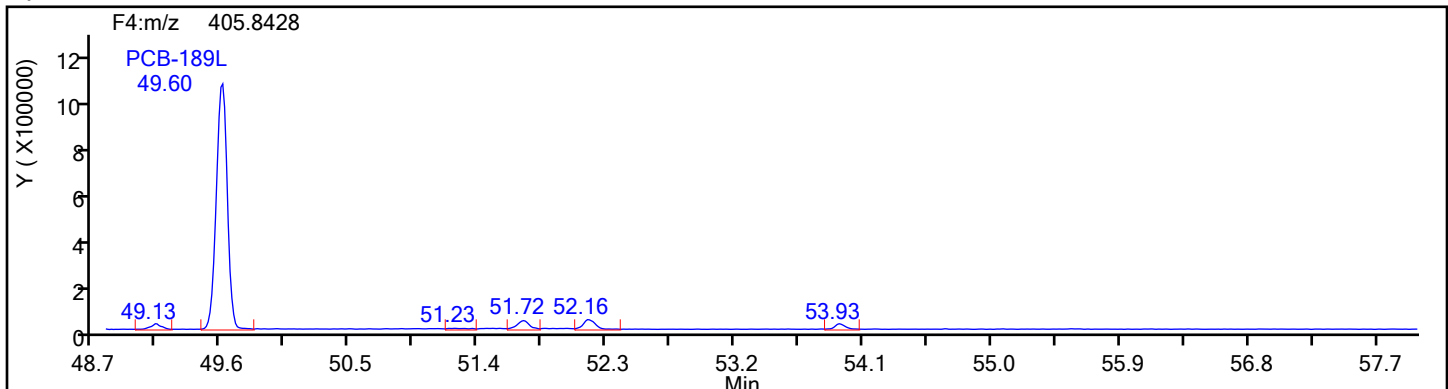
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

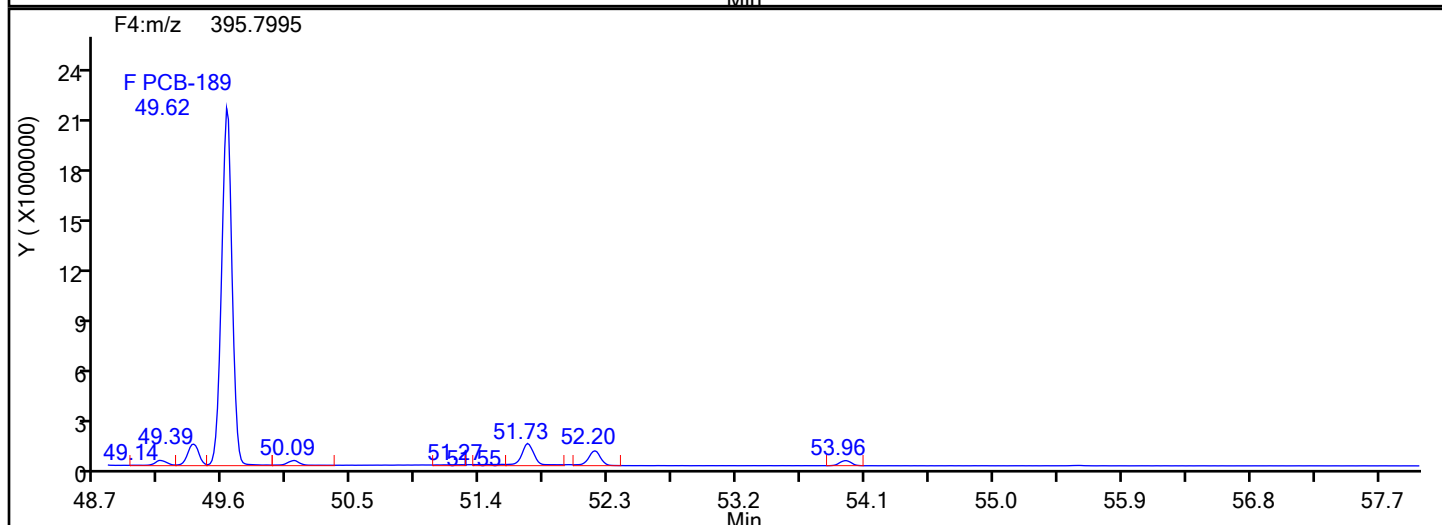
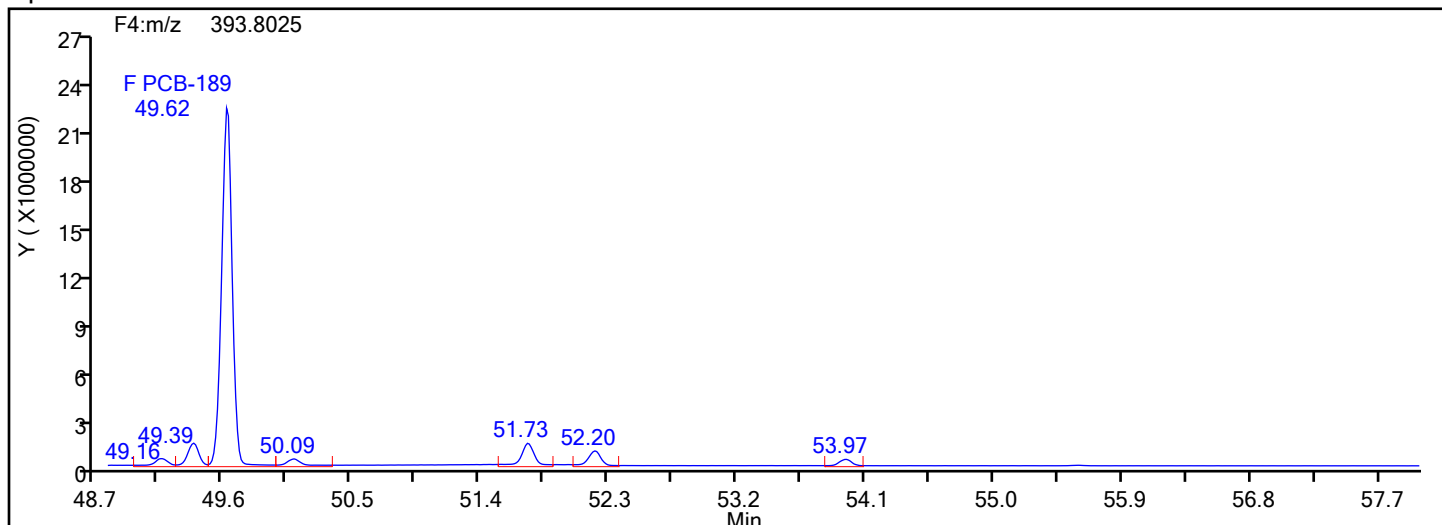
Worklist#: 87130

Sample Line#: 6

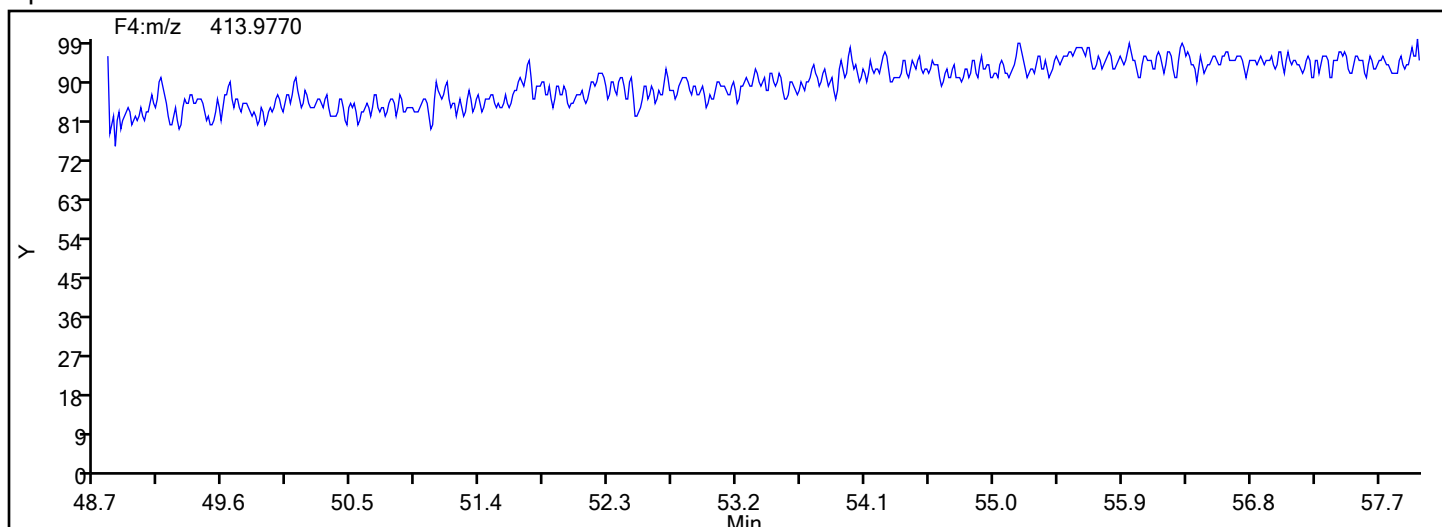
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

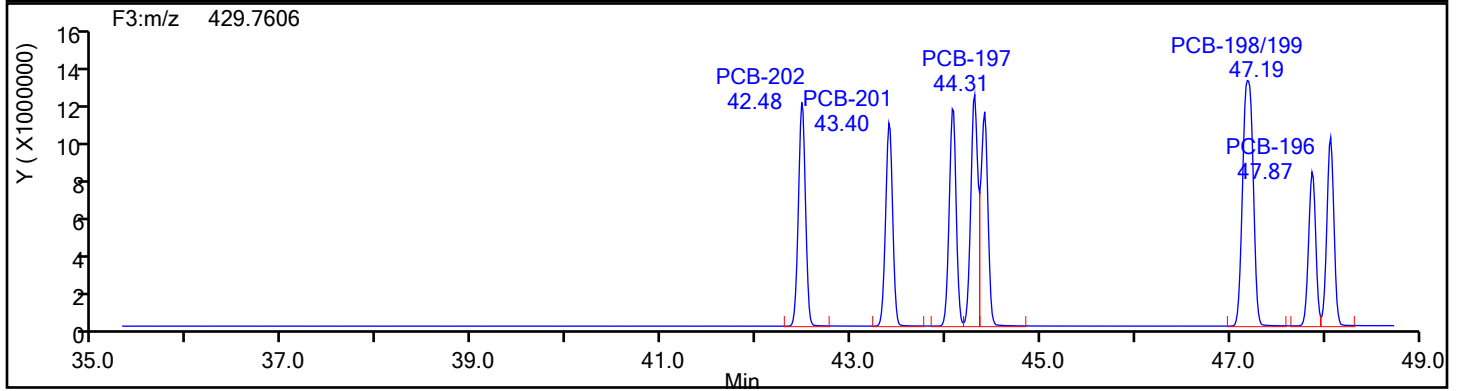
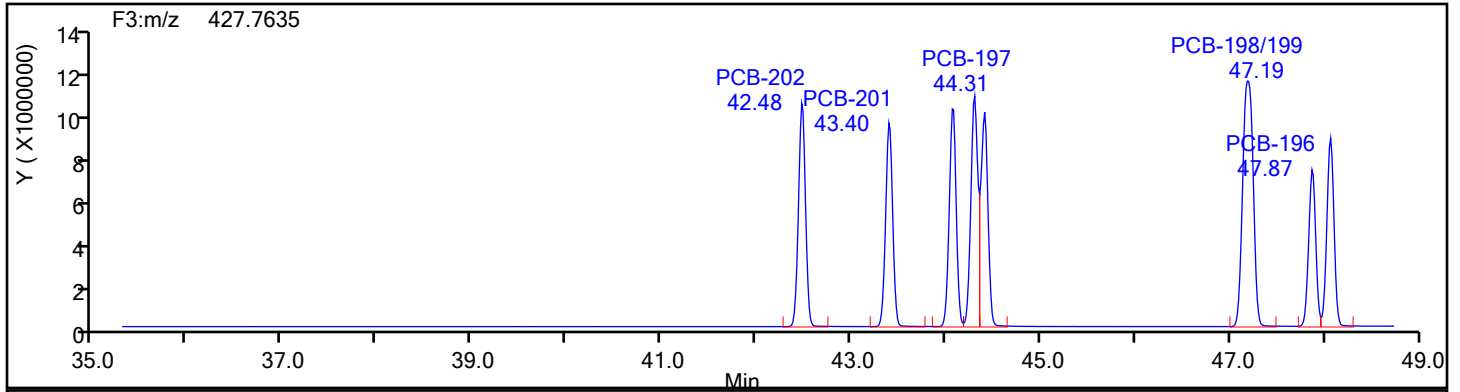
Worklist#: 87130

Sample Line#: 6

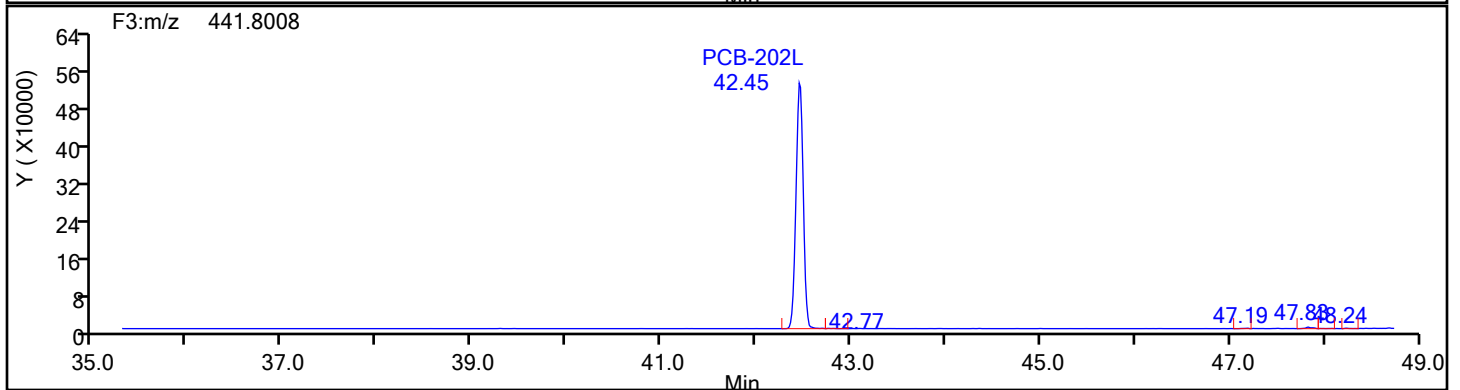
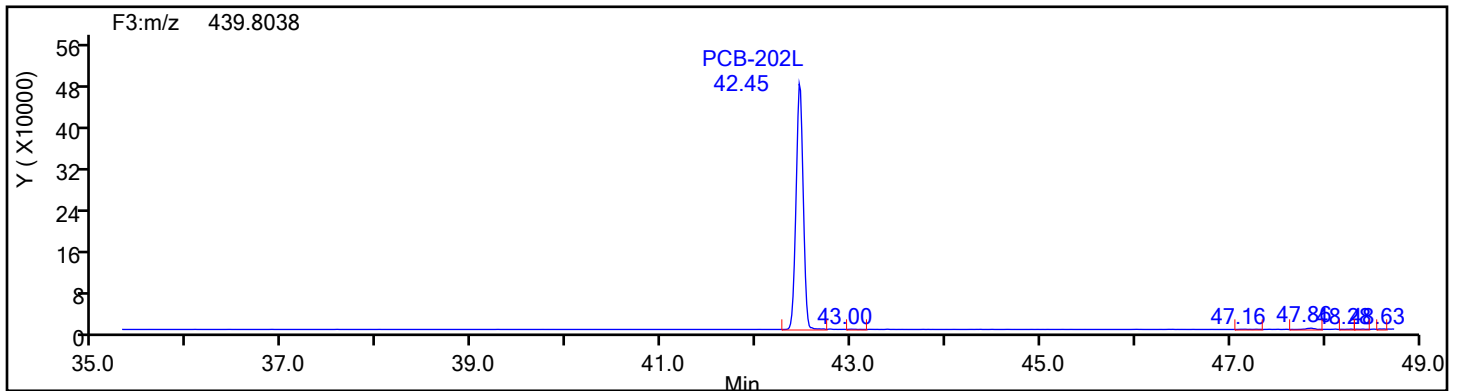
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

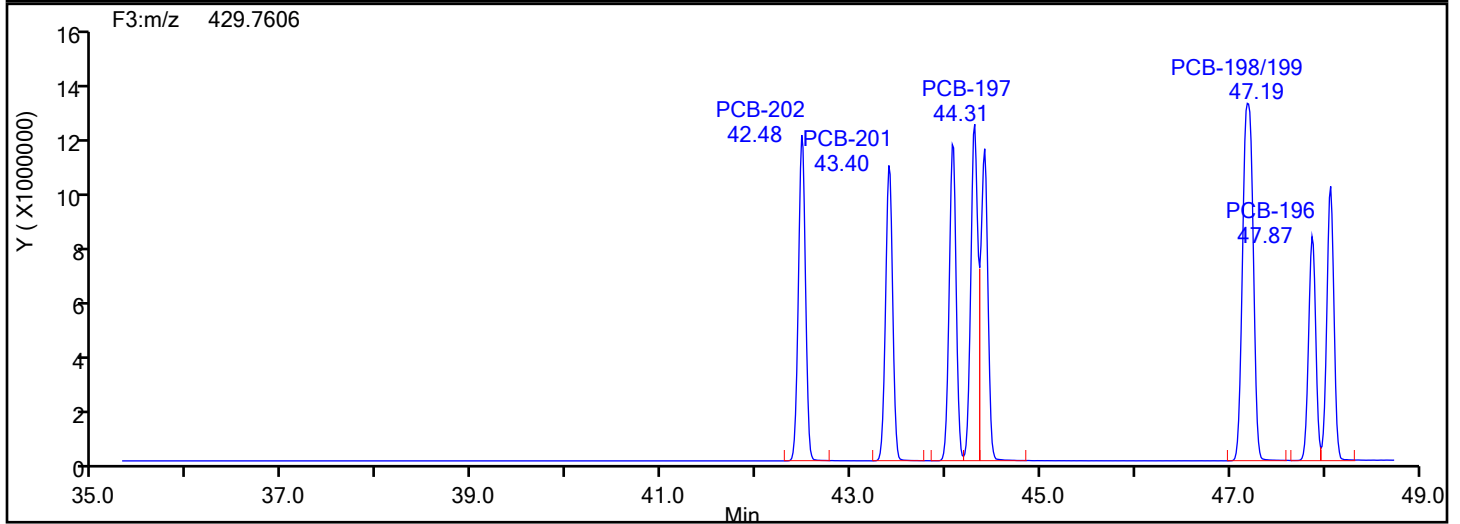
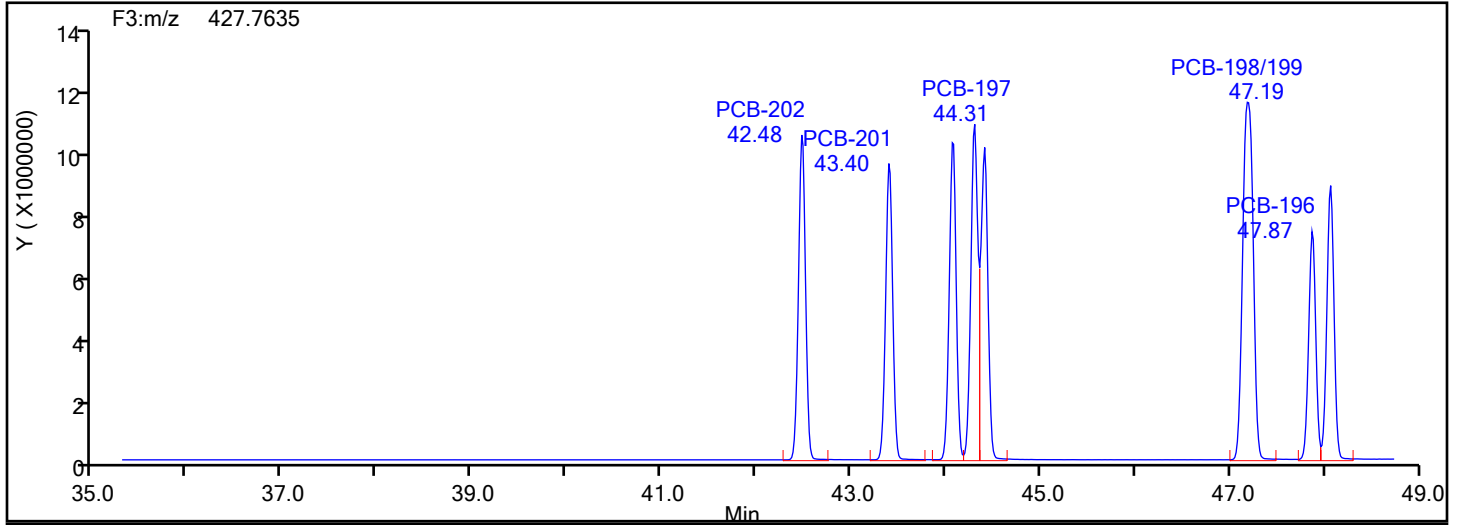


OcPCB F3 Standards

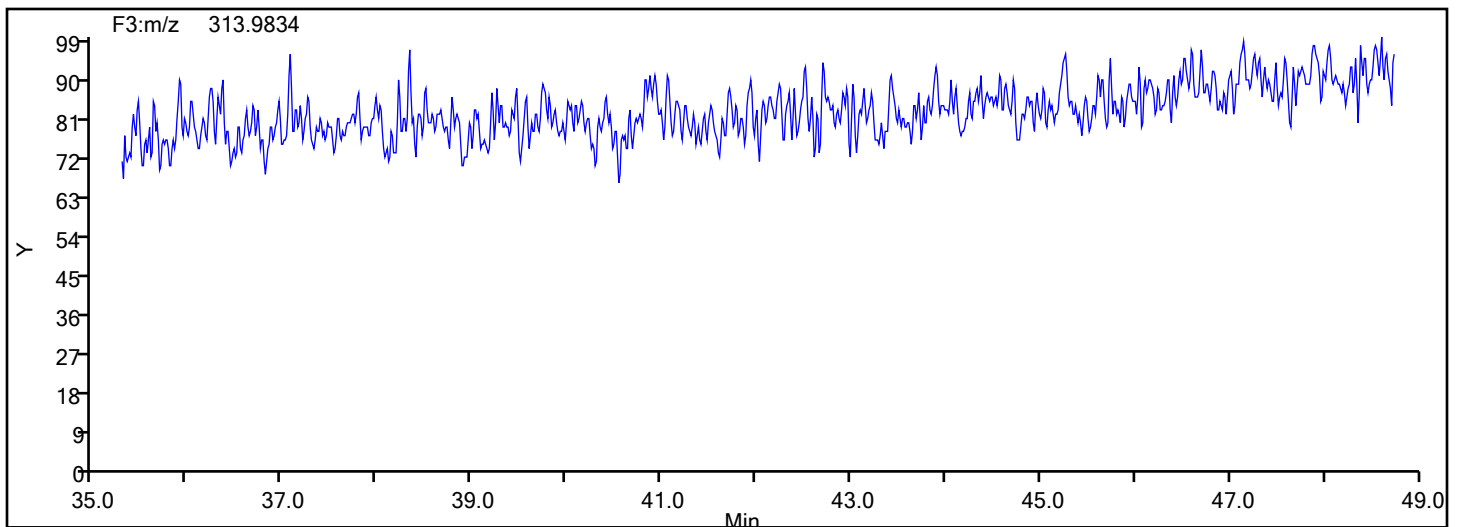


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

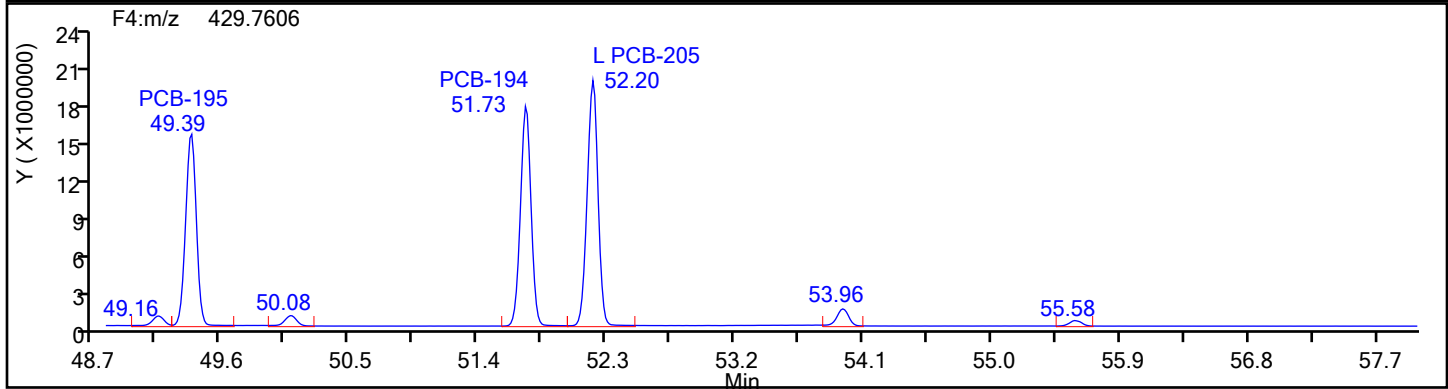
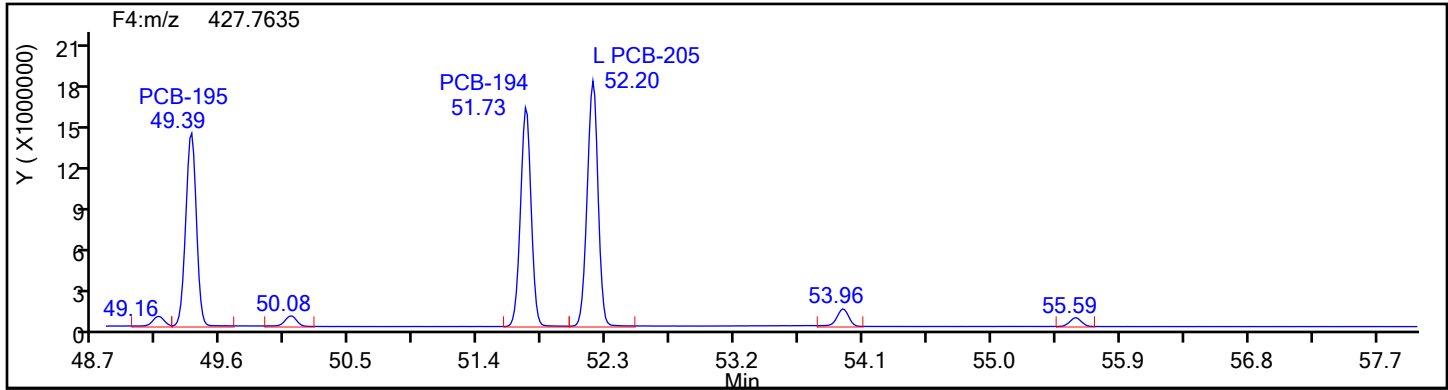


## OcPCB F3 Lock Mass

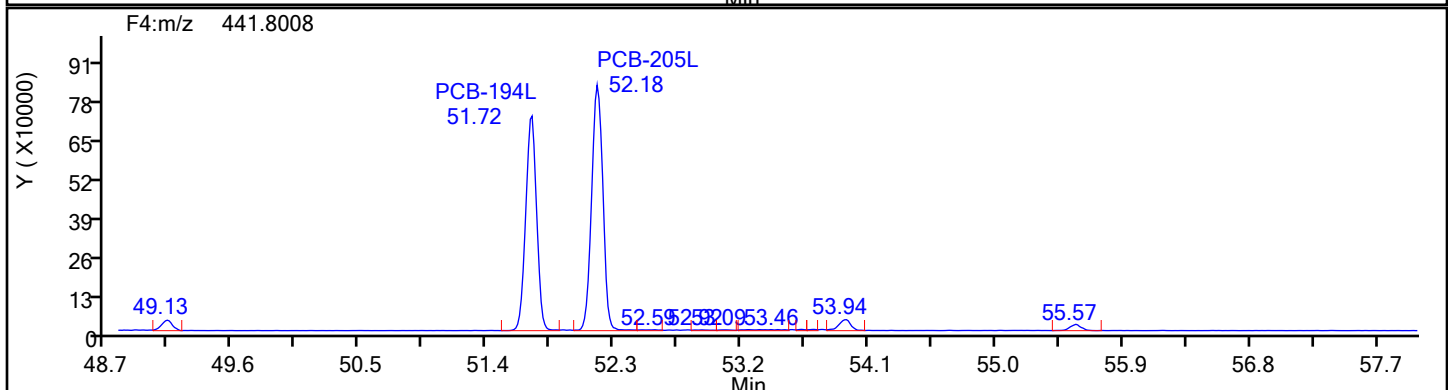
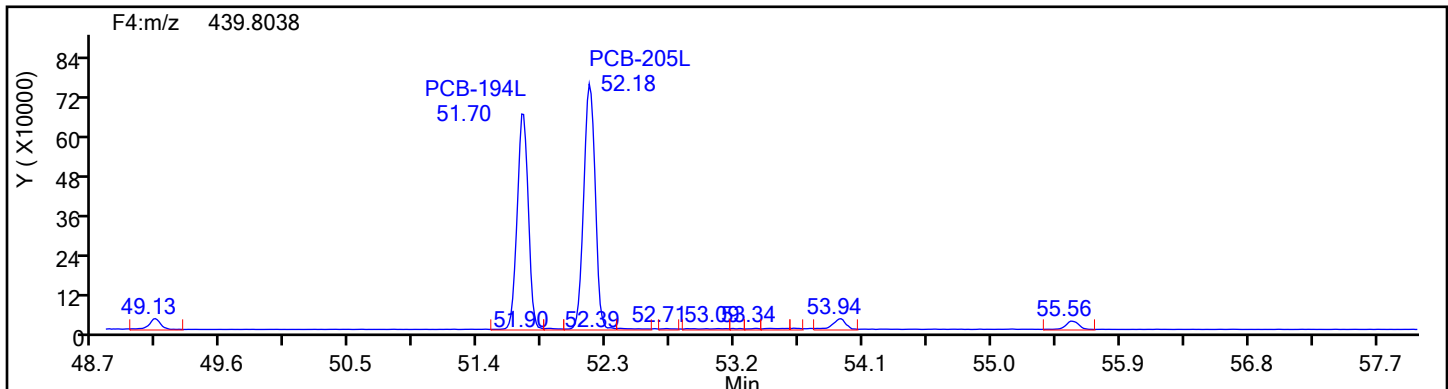


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4



## OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

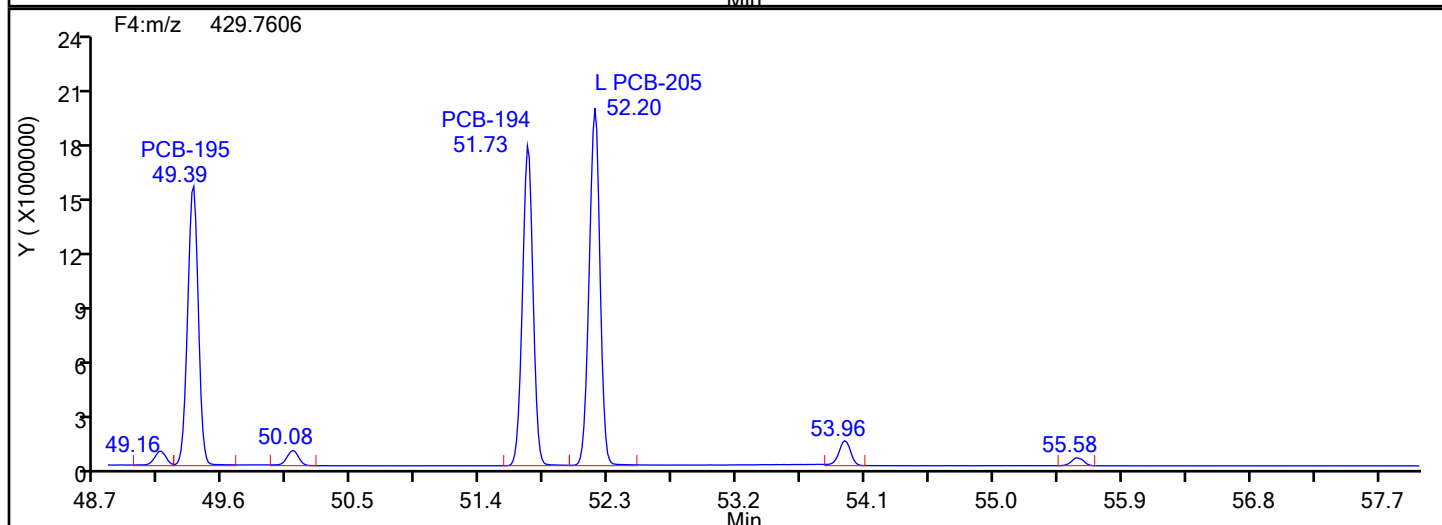
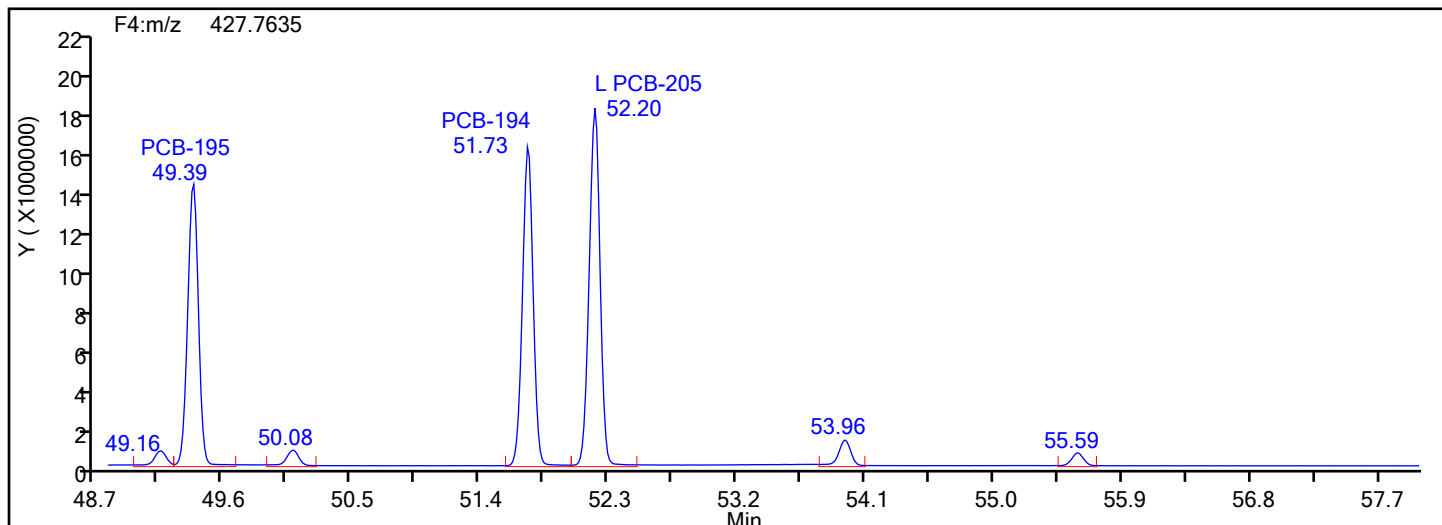
Worklist#: 87130

Sample Line#: 6

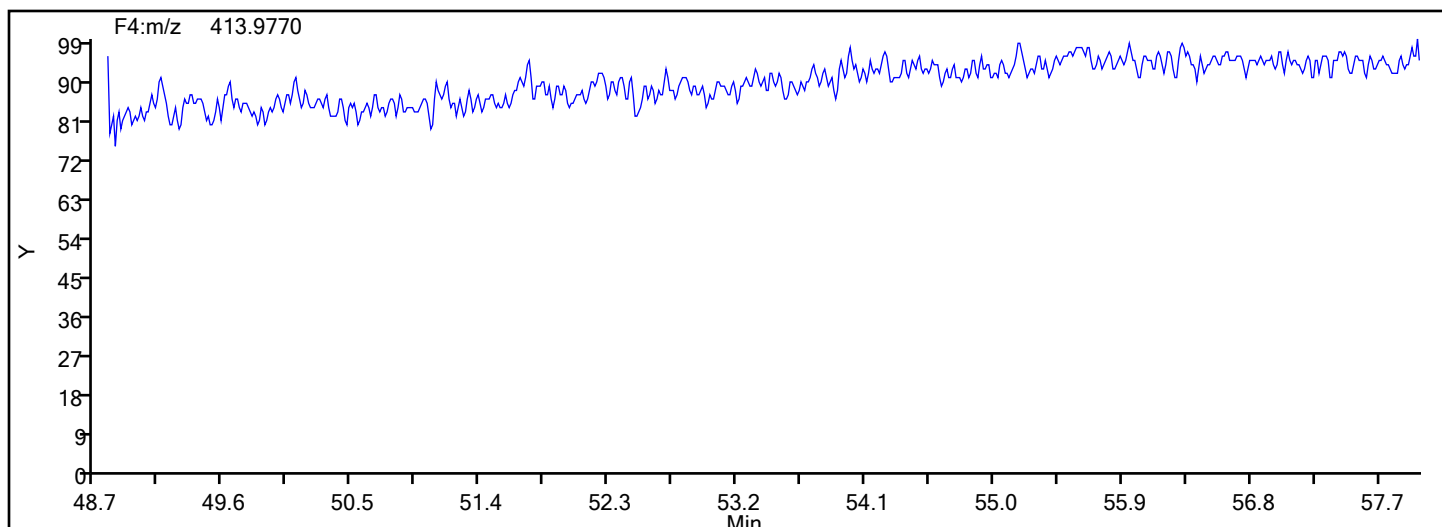
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



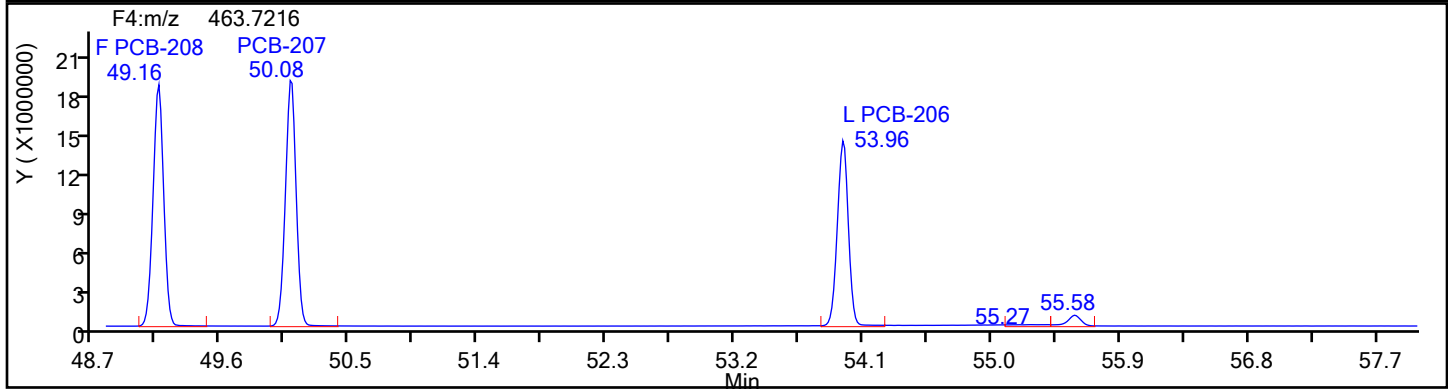
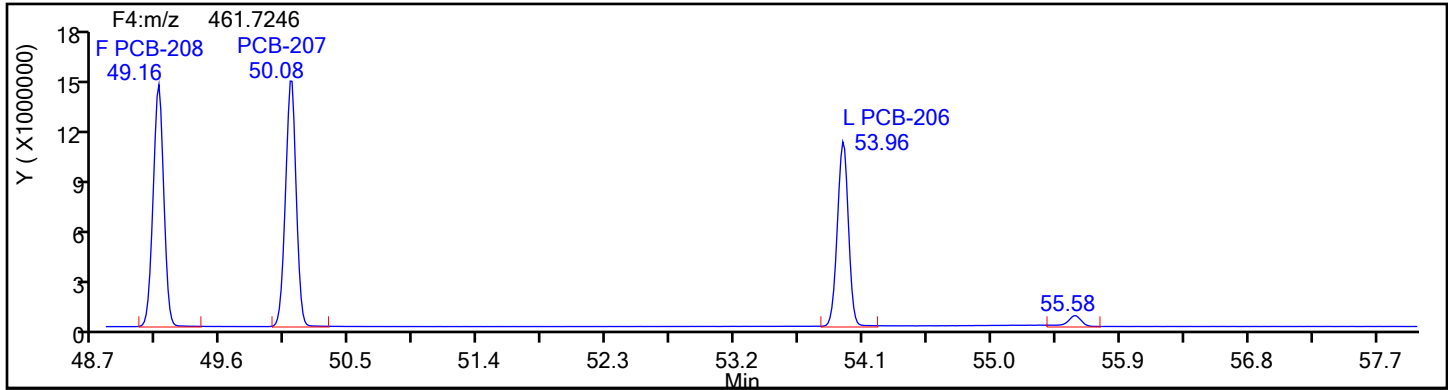
## OcPCB F4 Lock Mass



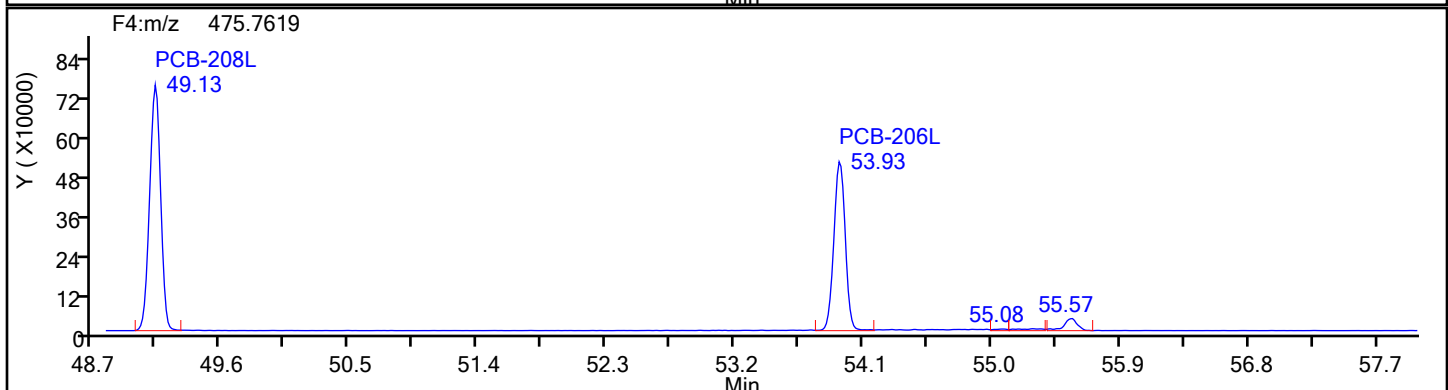
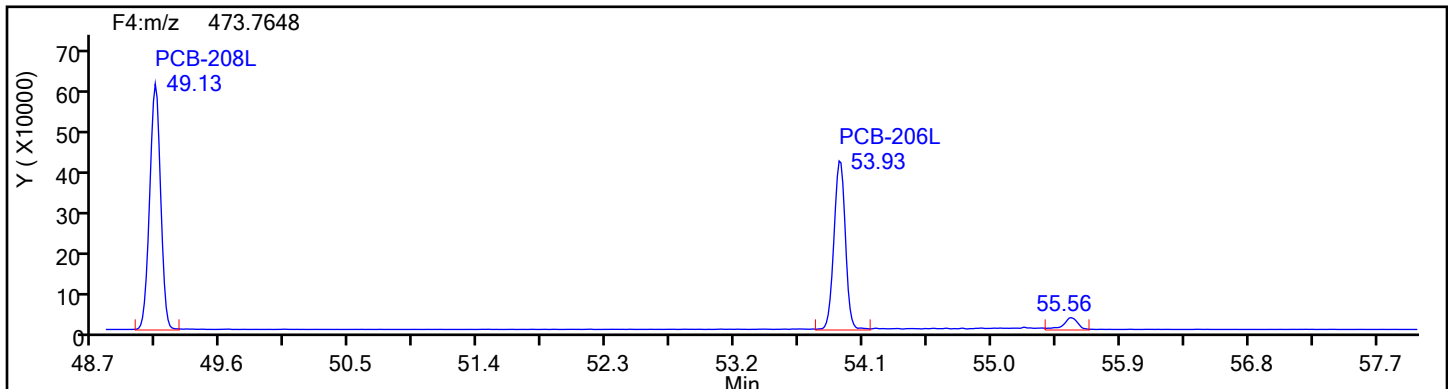


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



## NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

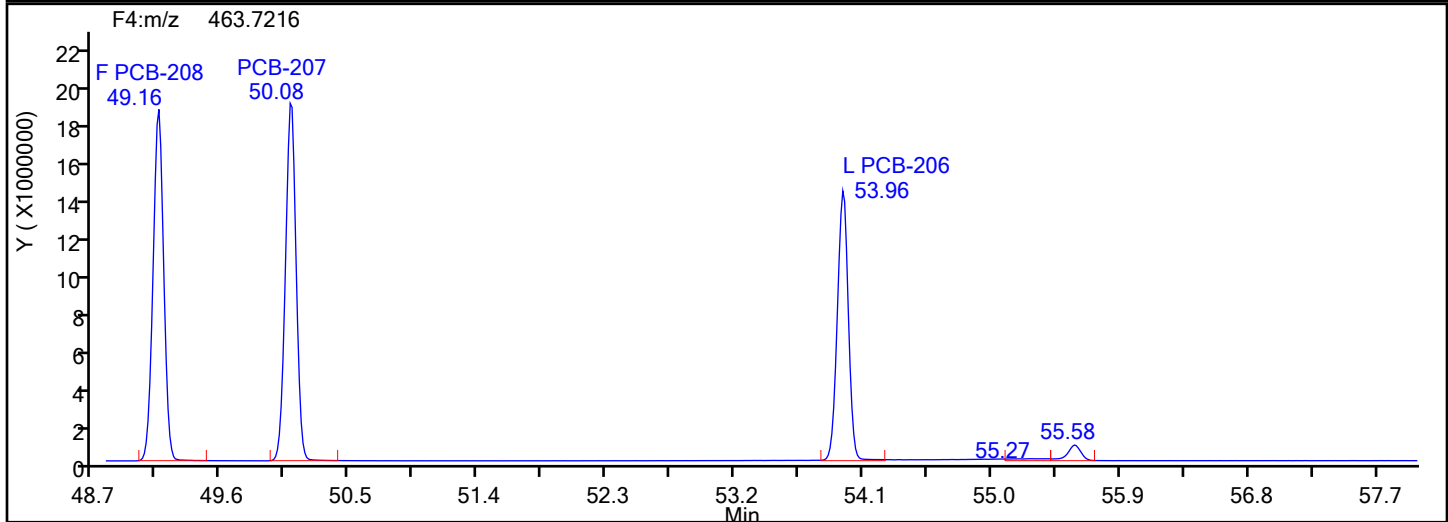
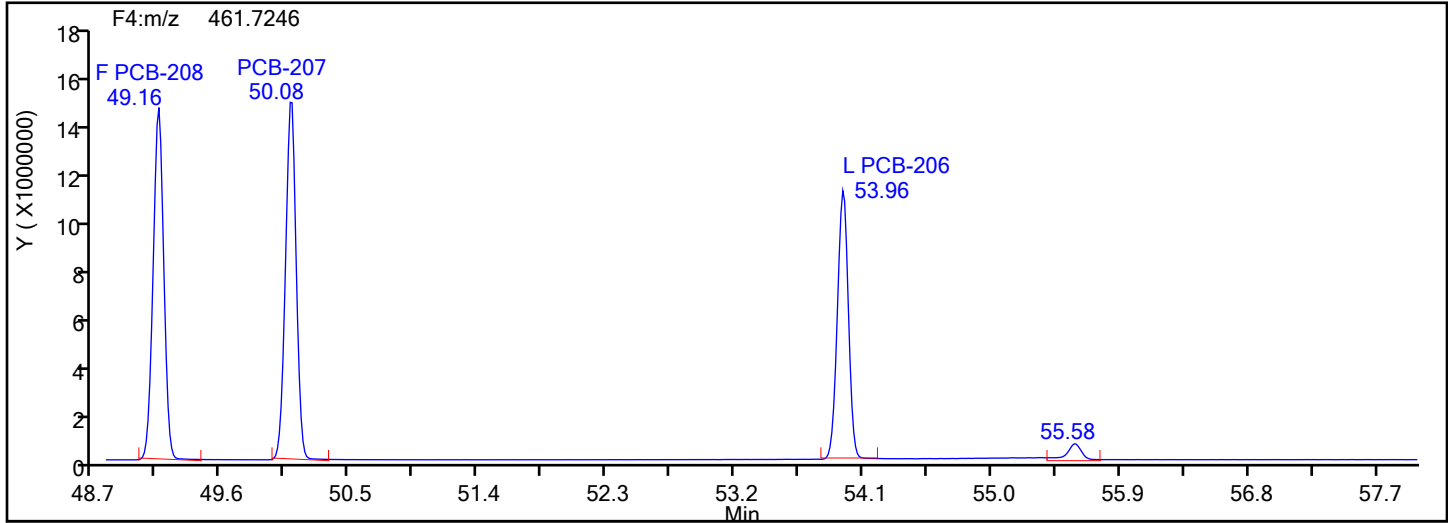
Worklist#: 87130

Sample Line#: 6

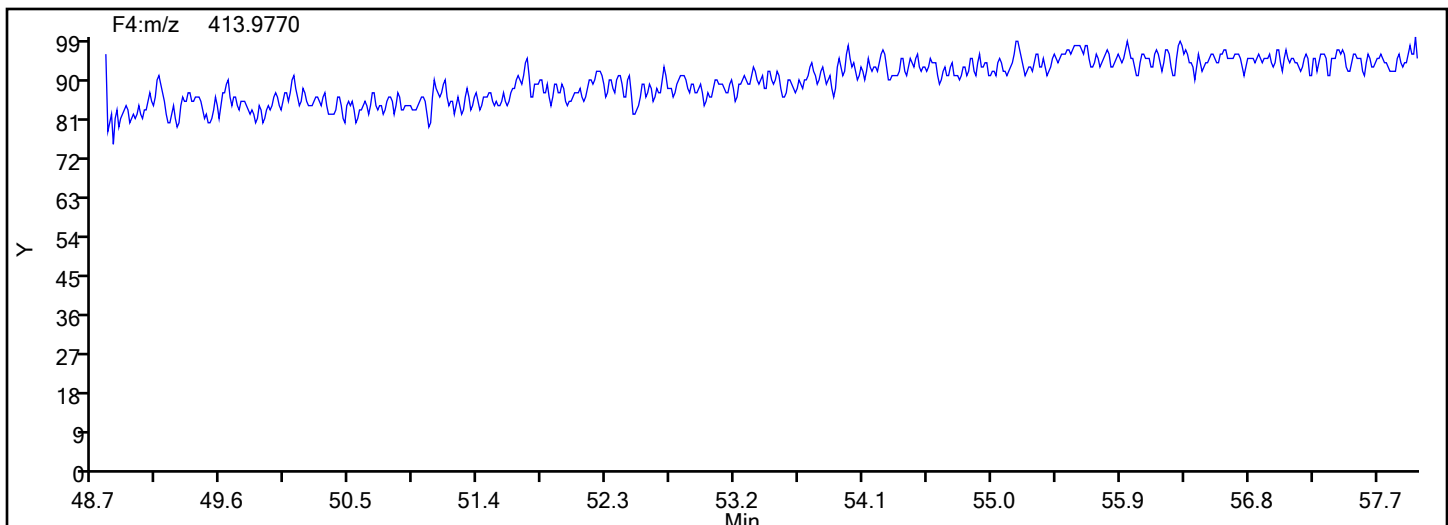
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Instrument ID: D2D

Lims ID: IC L6

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

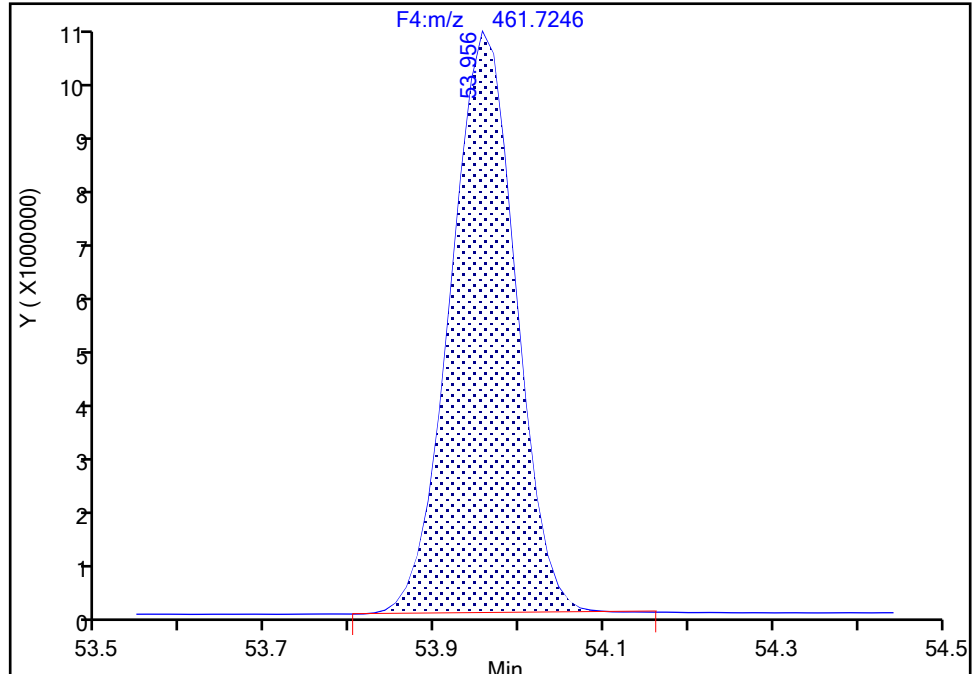
Detector F4(49.20 :57.50 )

**PCB-206, CAS: 40186-72-9**

Signal: 1

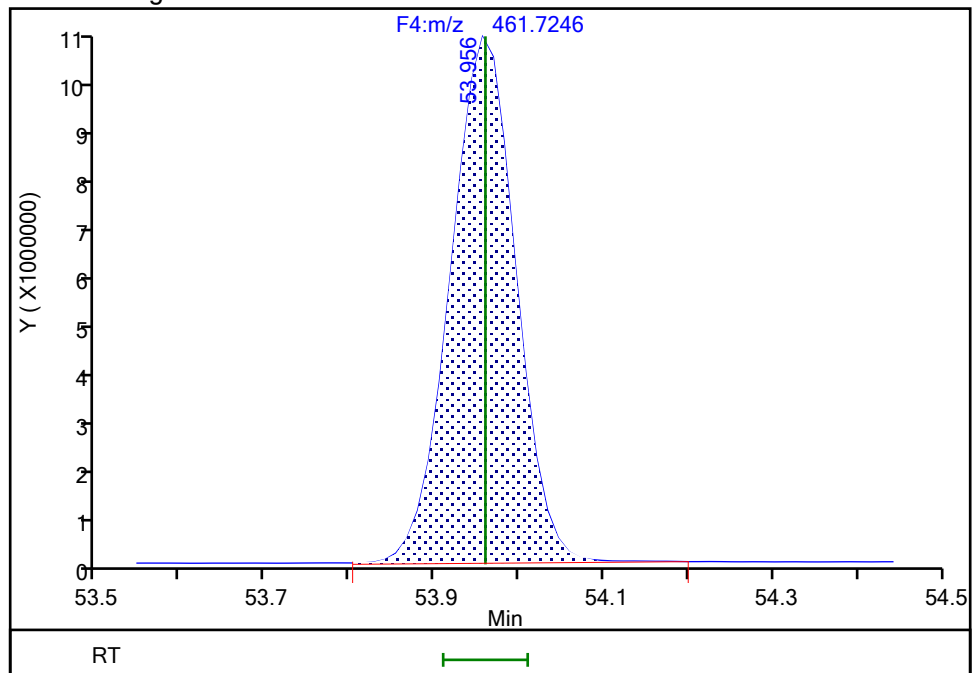
RT: 53.96  
Area: 57730691  
Amount: 1902.5597  
Amount Units: pg/ul

## Processing Integration Results



RT: 53.96  
Area: 58039089  
Amount: 1912.4054  
Amount Units: pg/ul

## Manual Integration Results



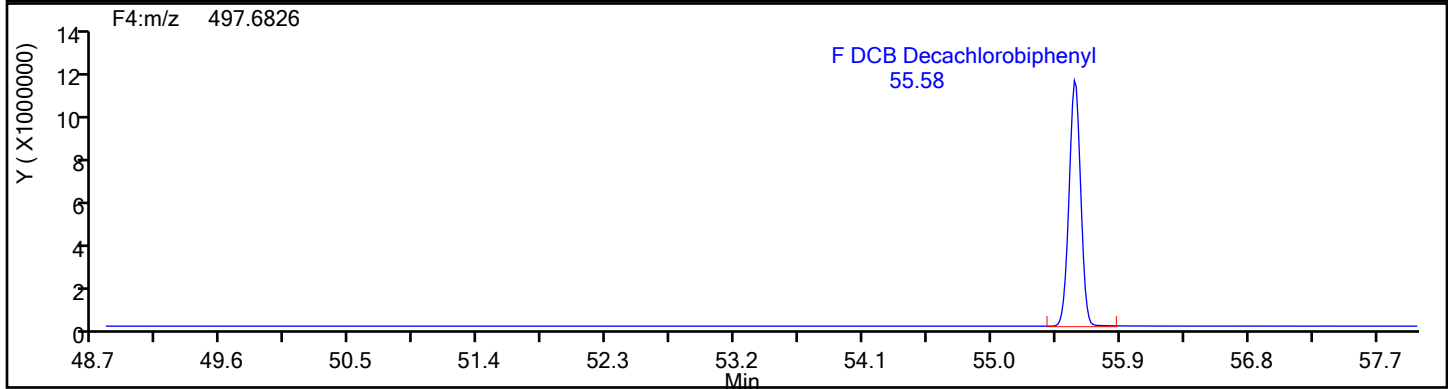
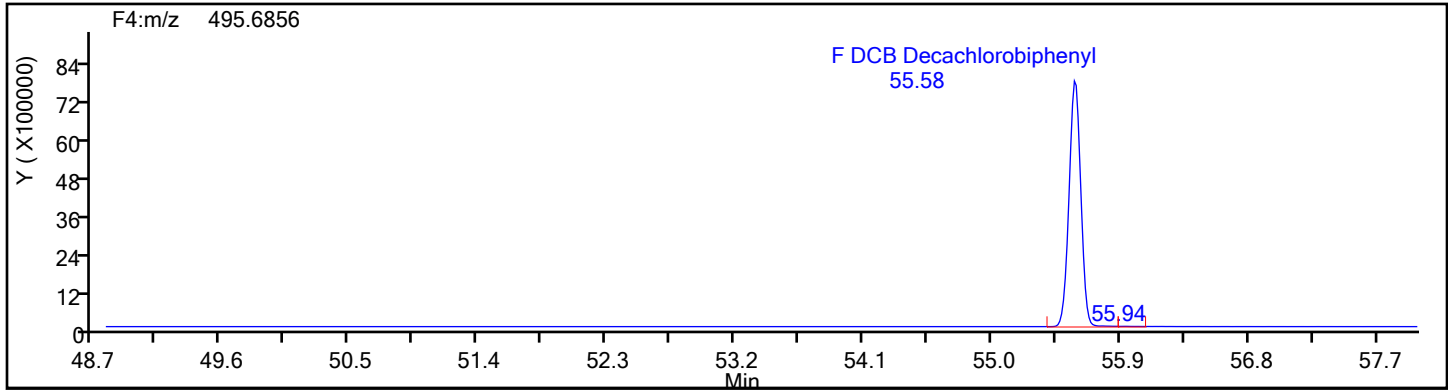
Reviewer: V4XA, 01-Jun-2024 03:12:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

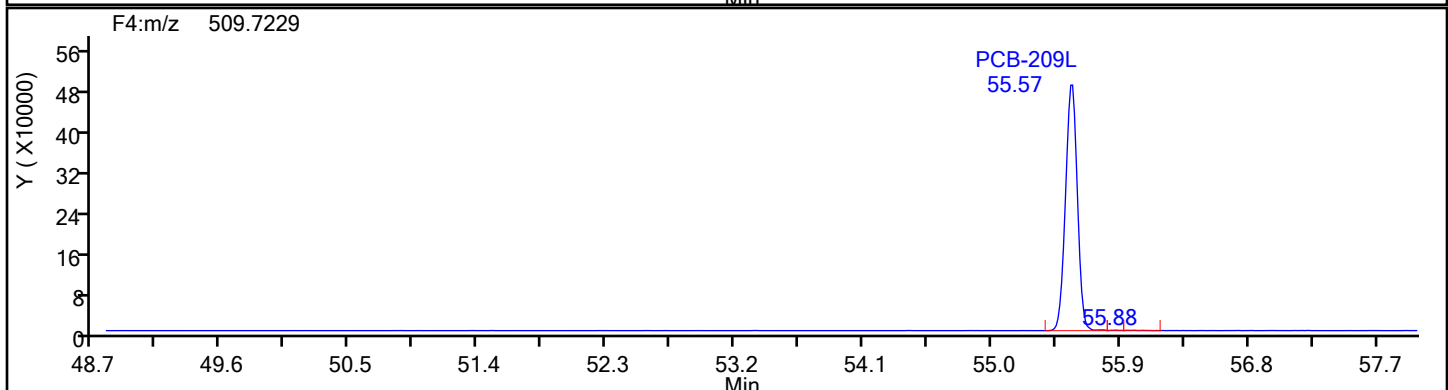
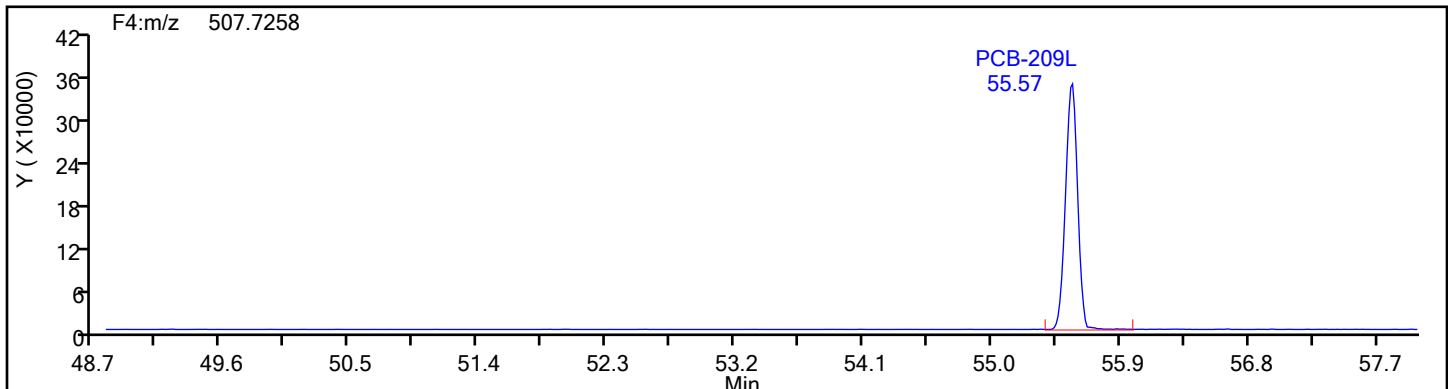
Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Injection Date: 31-May-2024 21:13:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 6  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d

Injection Date: 31-May-2024 21:13:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

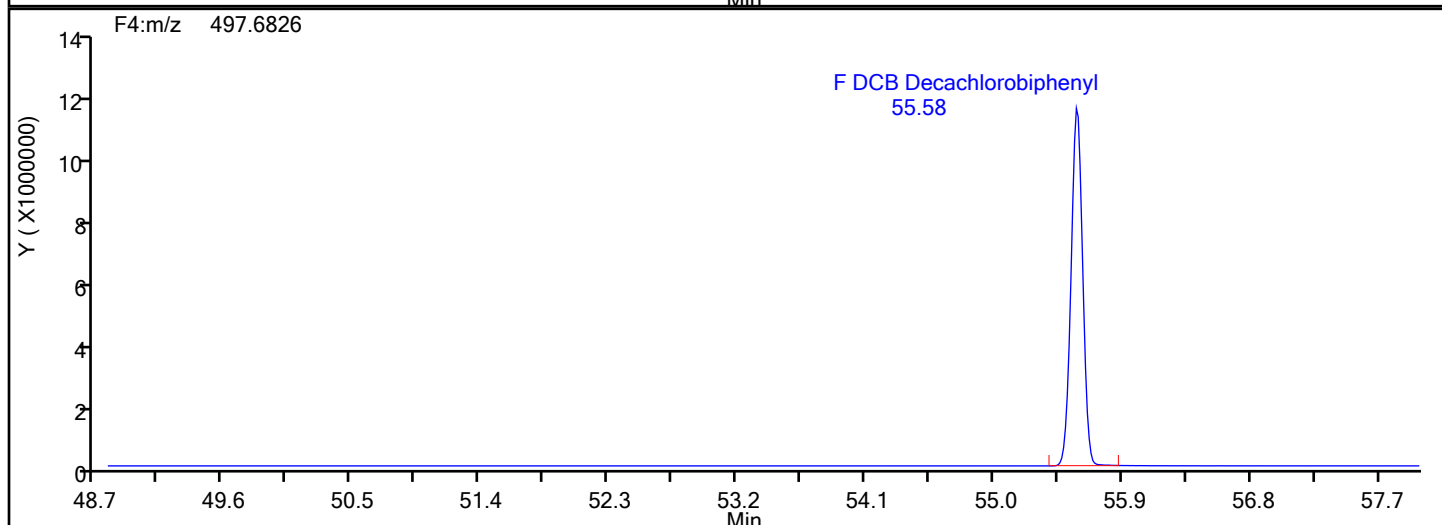
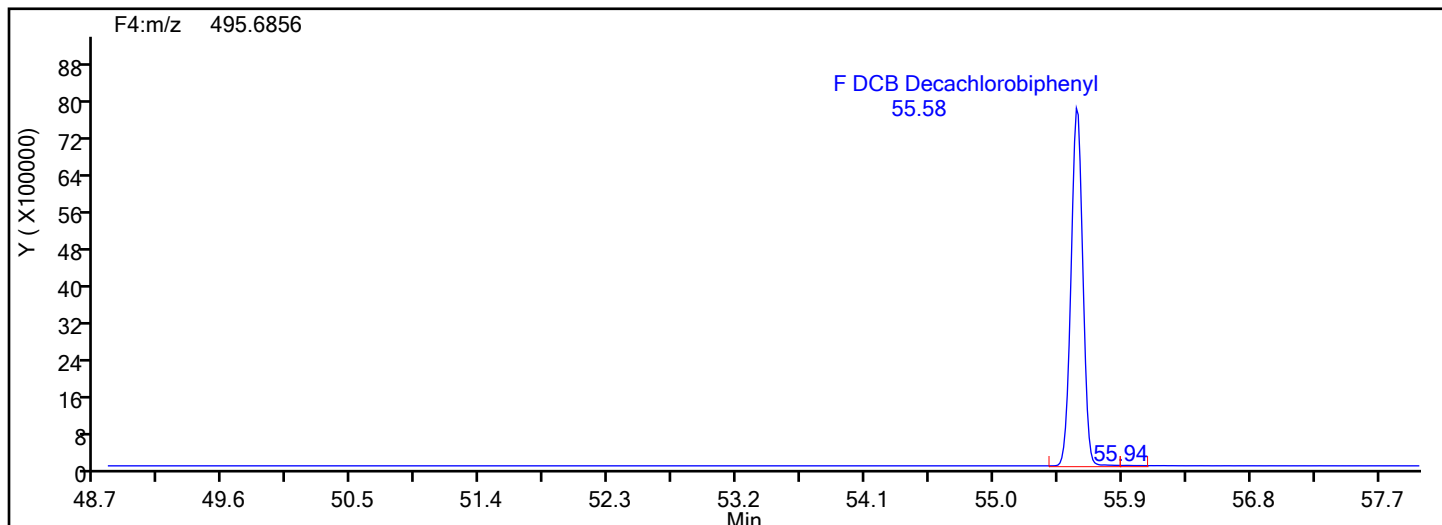
Worklist#: 87130

Sample Line#: 6

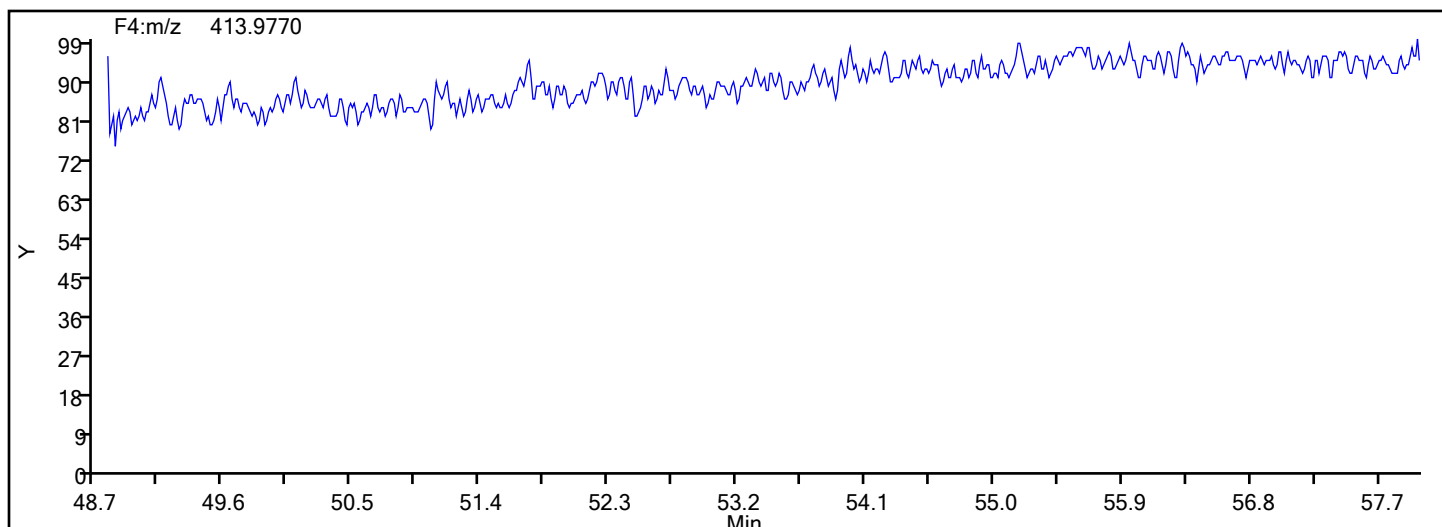
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



## DePCB F4 Lock Mass



# Calibration

/ DCB Decachlorobiphenyl

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

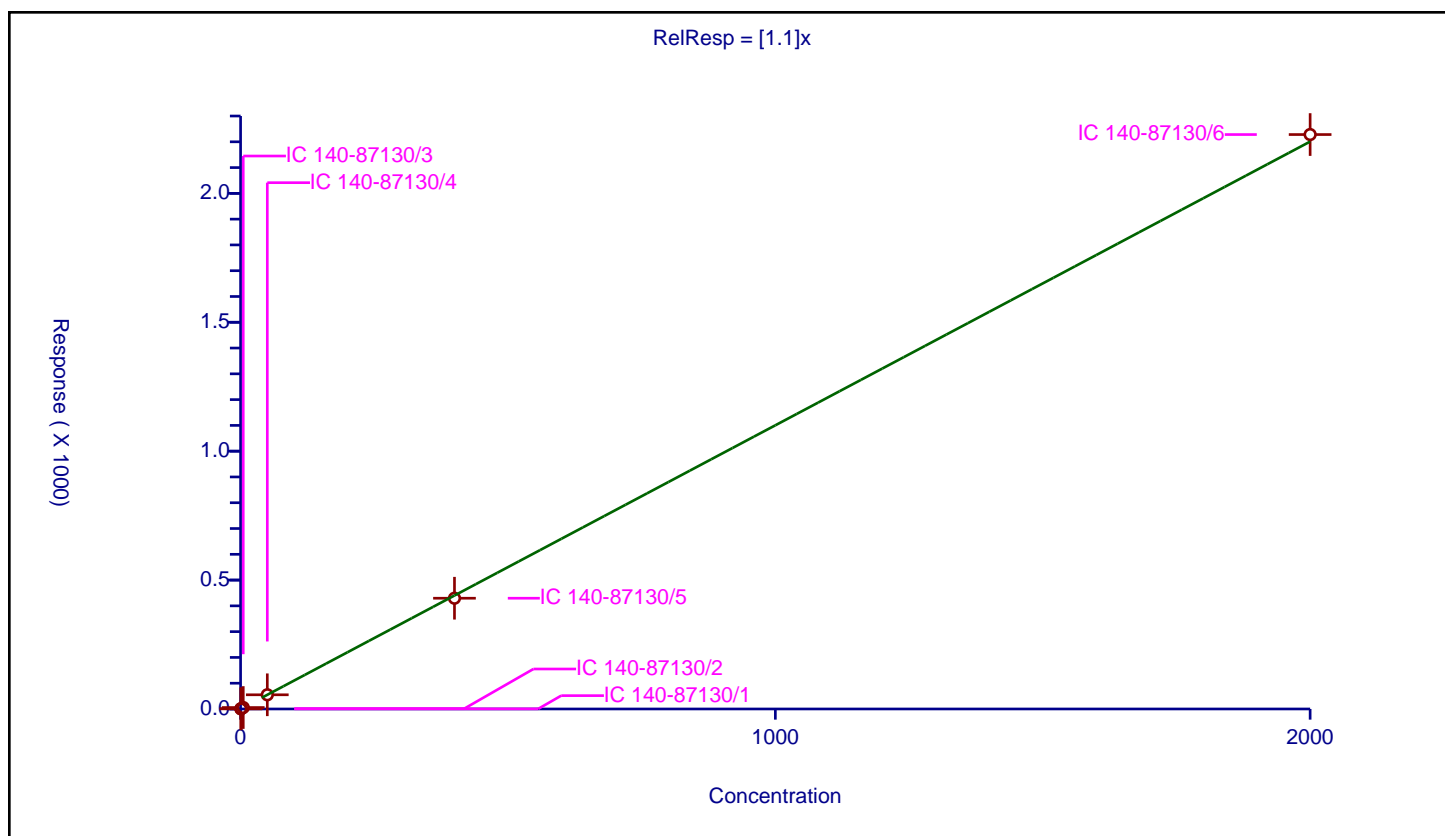
## Curve Coefficients

Intercept: 0  
Slope: 1.1

## Error Coefficients

Relative Standard Deviation: 1.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.548818	100.0	5278978.0	1.097637	Y
2	IC 140-87130/2	1.0	1.096209	100.0	4729024.0	1.096209	Y
3	IC 140-87130/3	5.0	5.590182	100.0	4889751.0	1.118036	Y
4	IC 140-87130/4	50.0	55.125547	100.0	4723291.0	1.102511	Y
5	IC 140-87130/5	400.0	429.572143	100.0	4867564.0	1.07393	Y
6	IC 140-87130/6	2000.0	2228.125224	100.0	4902169.0	1.114063	Y



# Calibration

/ PCB-1

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

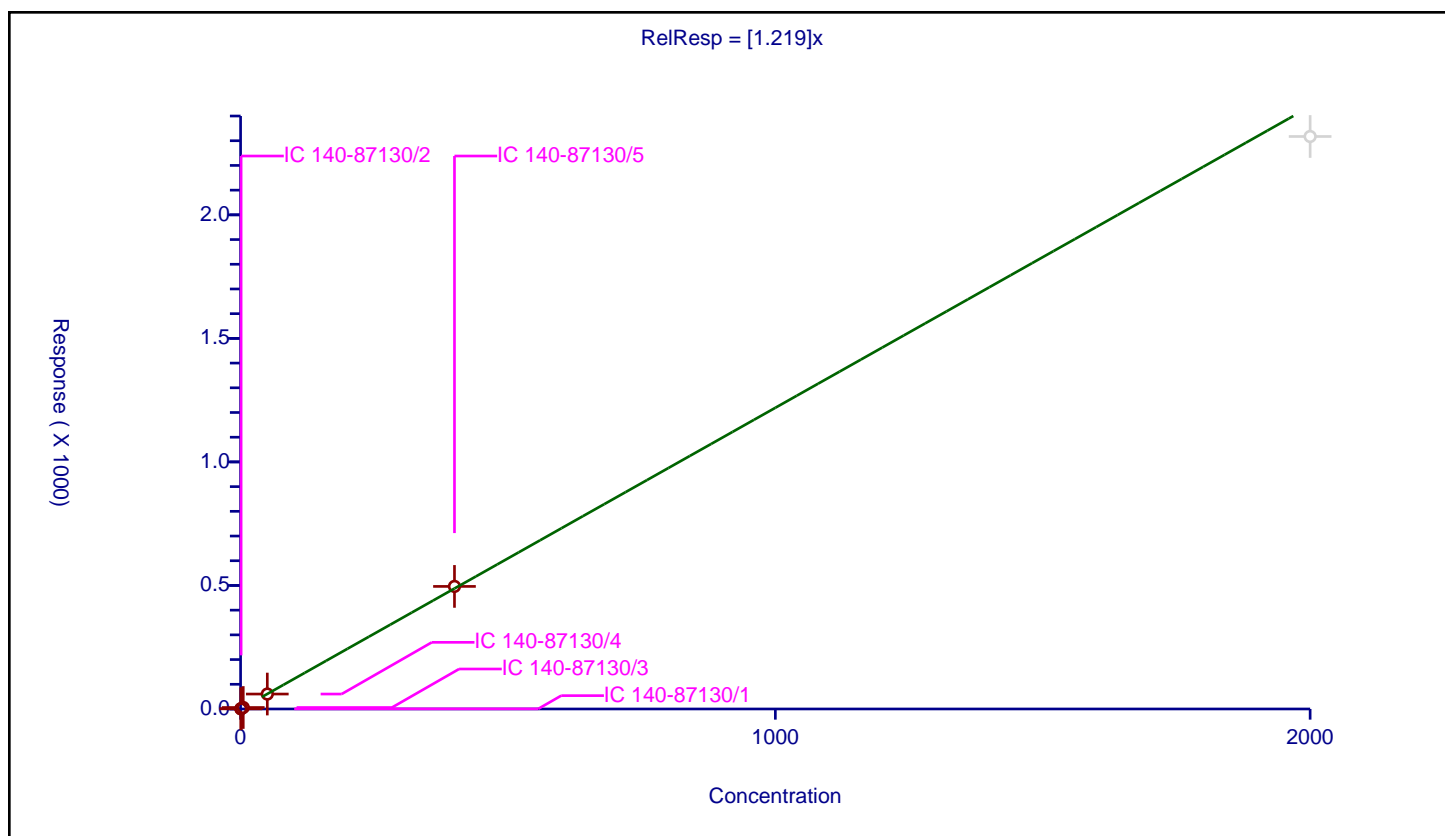
## Curve Coefficients

Intercept: 0  
Slope: 1.219

## Error Coefficients

Relative Standard Deviation: 2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.597017	100.0	14676977.0	1.194033	Y
2	IC 140-87130/2	1.0	1.250029	100.0	13411930.0	1.250029	Y
3	IC 140-87130/3	5.0	6.006275	100.0	13253788.0	1.201255	Y
4	IC 140-87130/4	50.0	60.496451	100.0	13654287.0	1.209929	Y
5	IC 140-87130/5	400.0	496.144941	100.0	13820437.0	1.240362	Y
6	IC 140-87130/6	2000.0	2317.124057	100.0	14103562.0	1.158562	N



# Calibration

/ PCB-10

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

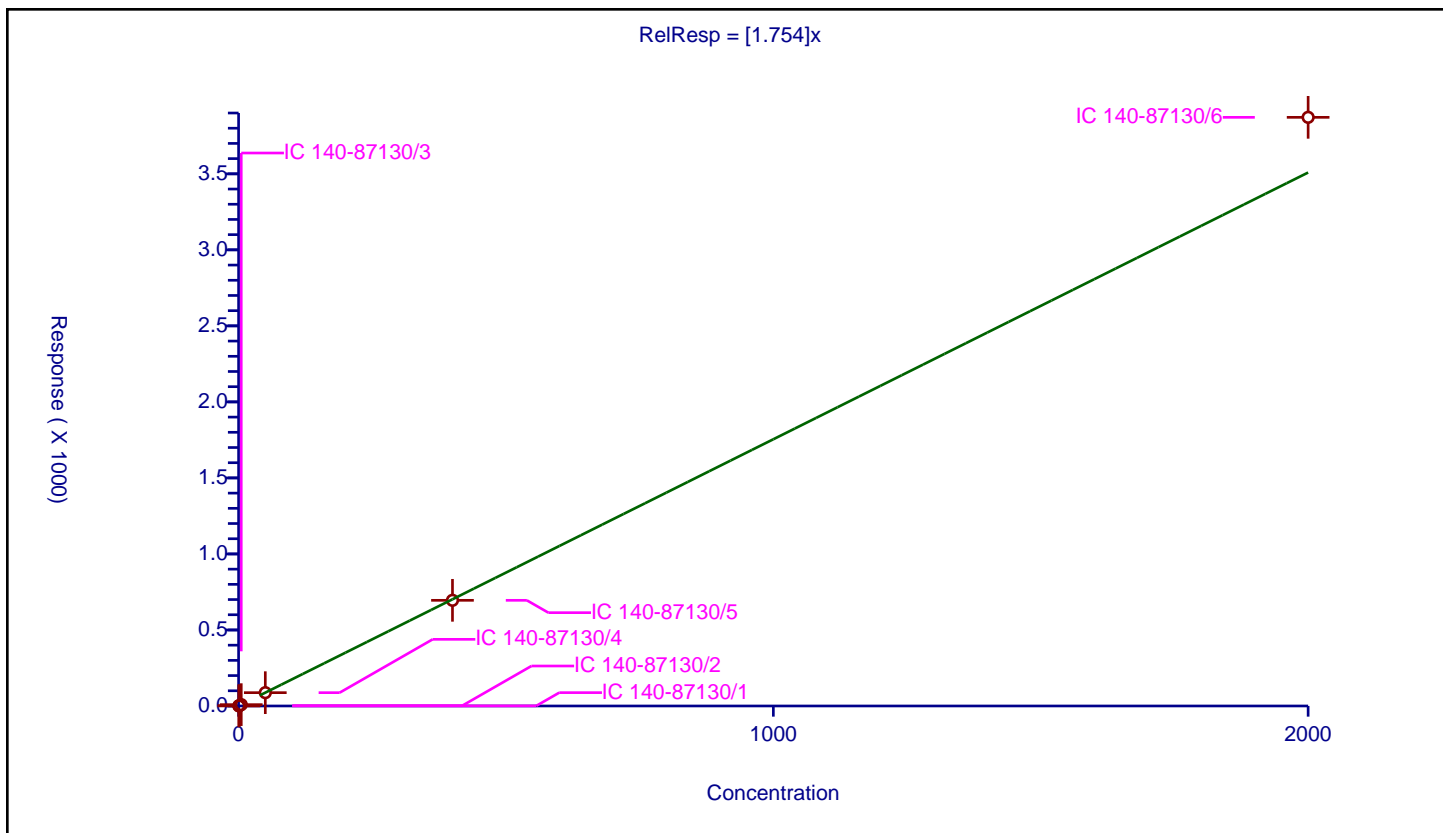
## Curve Coefficients

Intercept: 0  
 Slope: 1.754

## Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.821438	100.0	5904521.0	1.642877	Y
2	IC 140-87130/2	1.0	1.670823	100.0	5442766.0	1.670823	Y
3	IC 140-87130/3	5.0	8.937908	100.0	5279032.0	1.787582	Y
4	IC 140-87130/4	50.0	87.549993	100.0	5474214.0	1.751	Y
5	IC 140-87130/5	400.0	695.041767	100.0	5561618.0	1.737604	Y
6	IC 140-87130/6	2000.0	3871.627139	100.0	5672202.0	1.935814	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

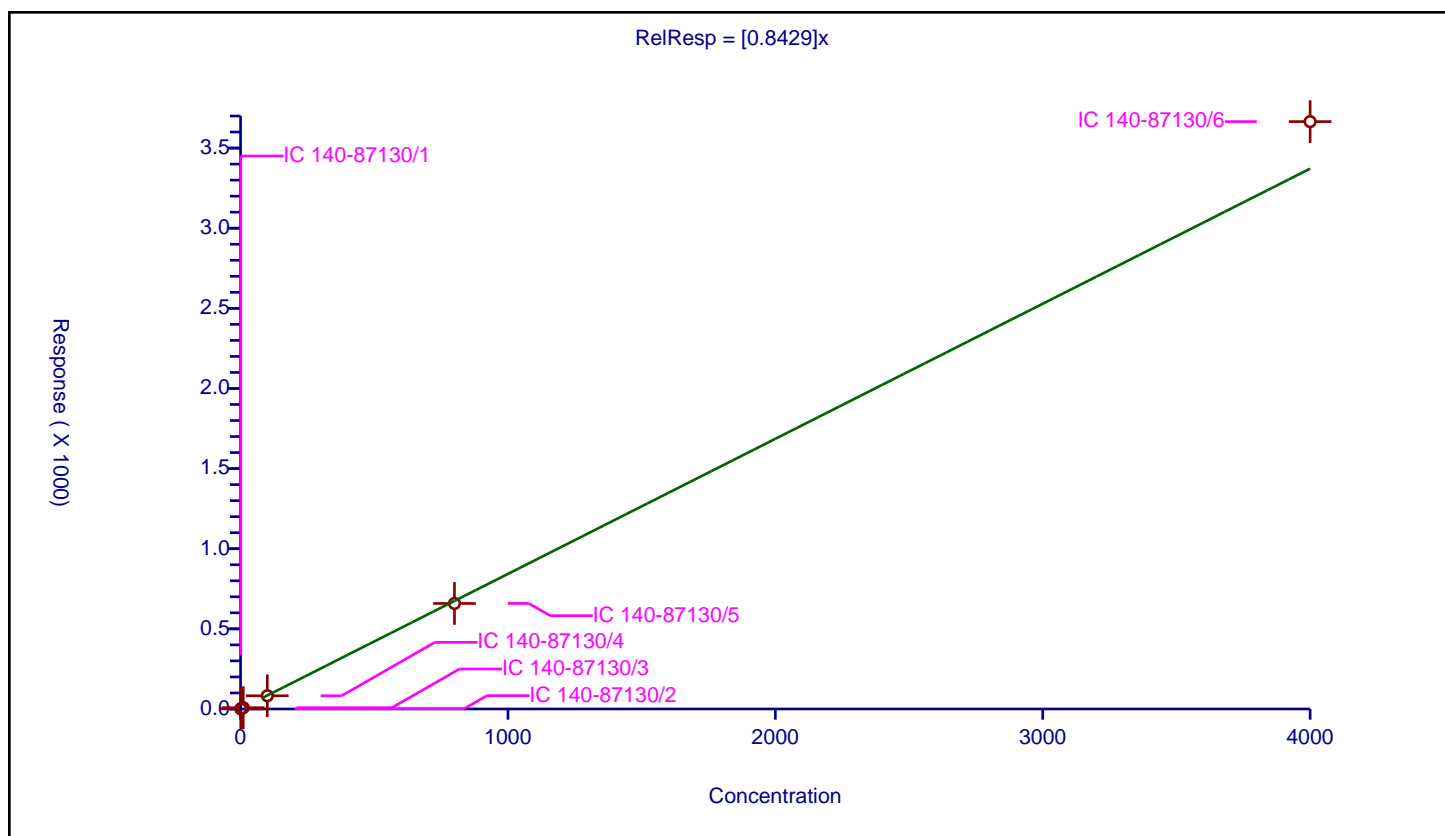
## Curve Coefficients

Intercept: 0  
Slope: 0.8429

## Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.852714	100.0	6938320.0	0.852714	Y
2	IC 140-87130/2	2.0	1.667508	100.0	6240748.0	0.833754	Y
3	IC 140-87130/3	10.0	8.061721	100.0	6307301.0	0.806172	Y
4	IC 140-87130/4	100.0	82.513091	100.0	6455349.0	0.825131	Y
5	IC 140-87130/5	800.0	658.540756	100.0	6672003.0	0.823176	Y
6	IC 140-87130/6	4000.0	3665.032714	100.0	6975966.0	0.916258	Y



# Calibration

/ PCB-101

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

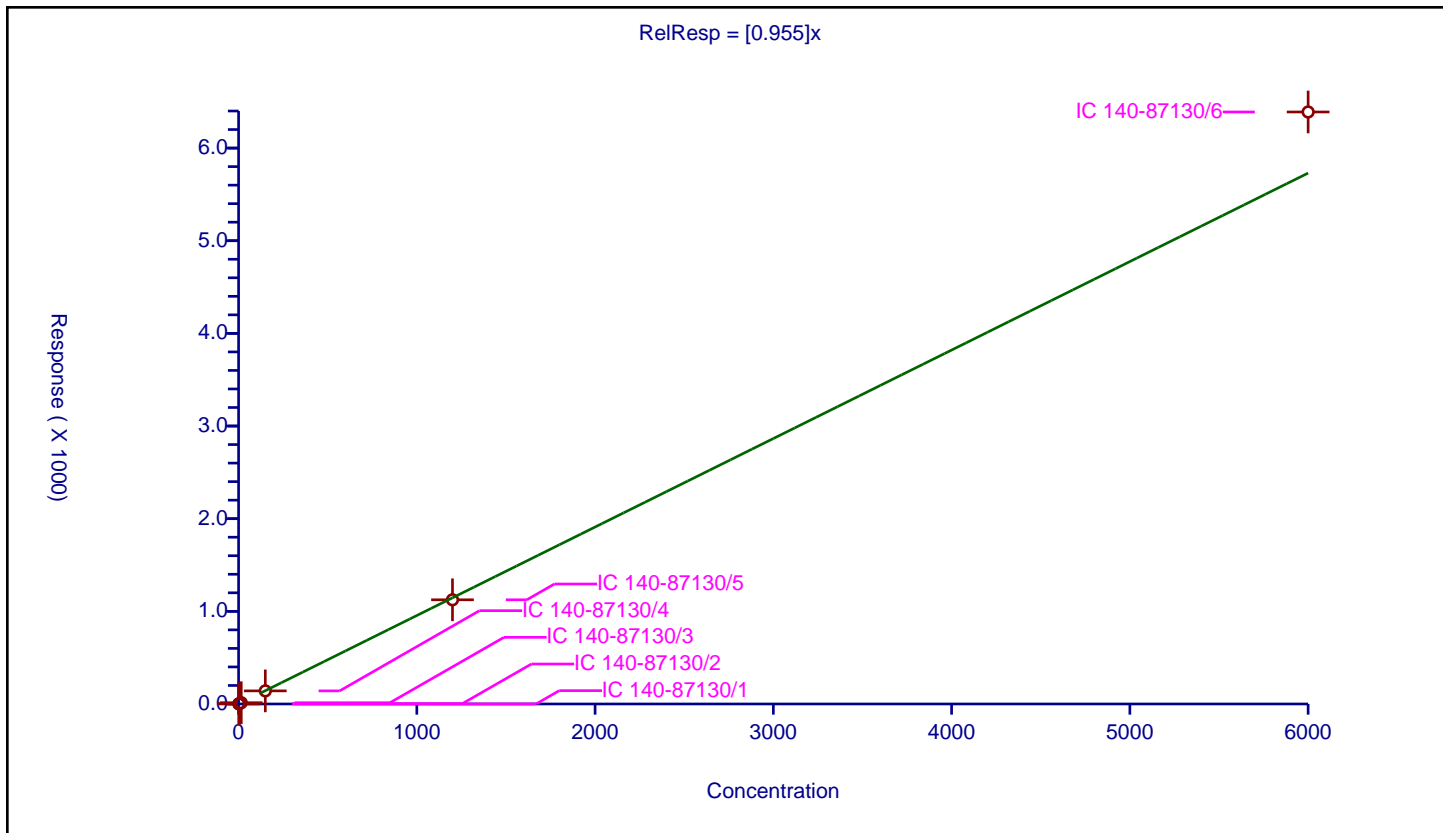
## Curve Coefficients

Intercept: 0  
Slope: 0.955

## Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

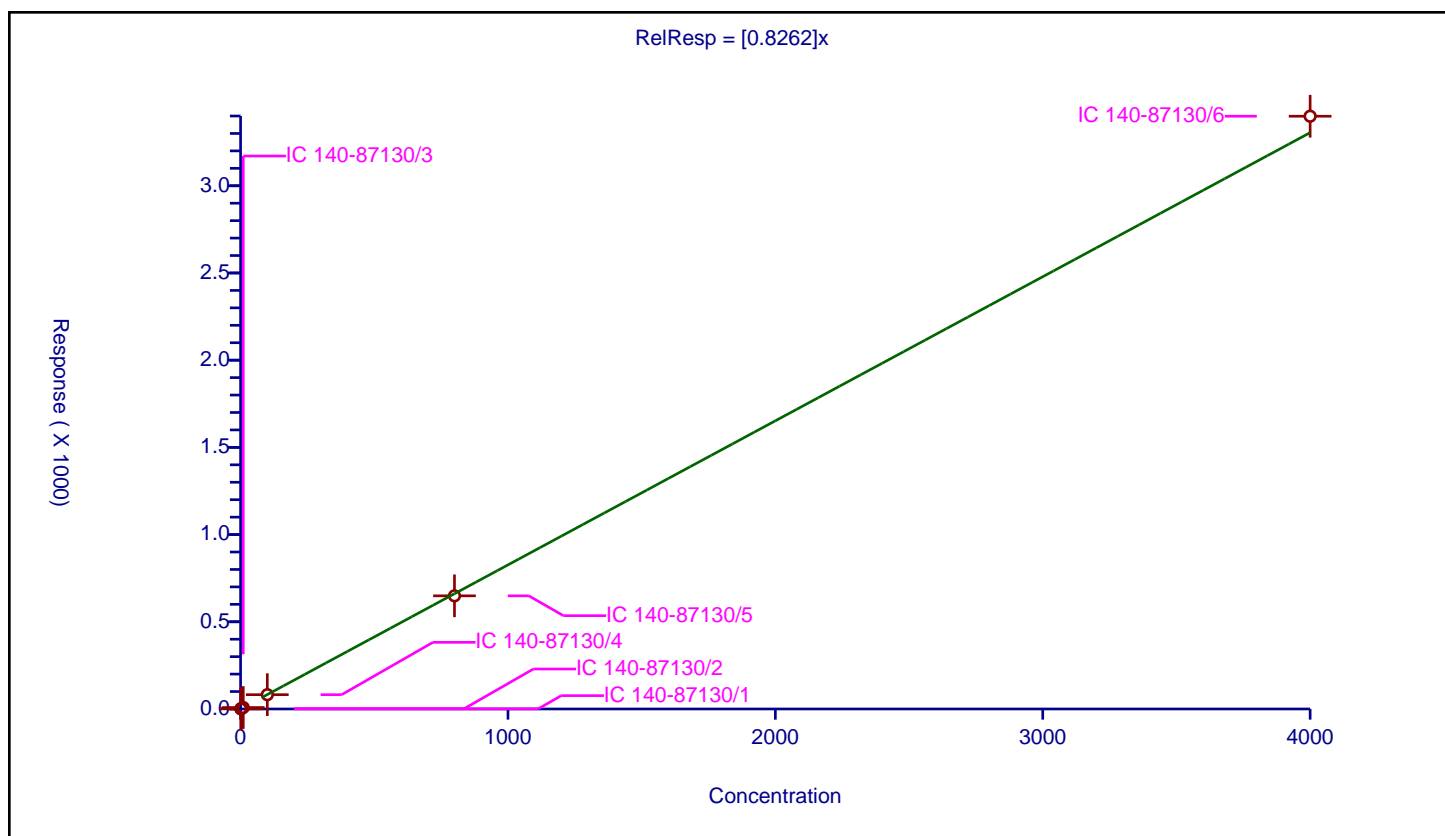
## Curve Coefficients

Intercept: 0  
Slope: 0.8262

## Error Coefficients

Relative Standard Deviation: 1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.825603	100.0	6938320.0	0.825603	Y
2	IC 140-87130/2	2.0	1.631167	100.0	6240748.0	0.815583	Y
3	IC 140-87130/3	10.0	8.347532	100.0	6307301.0	0.834753	Y
4	IC 140-87130/4	100.0	82.021111	100.0	6455349.0	0.820211	Y
5	IC 140-87130/5	800.0	648.883896	100.0	6672003.0	0.811105	Y
6	IC 140-87130/6	4000.0	3398.773116	100.0	6975966.0	0.849693	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

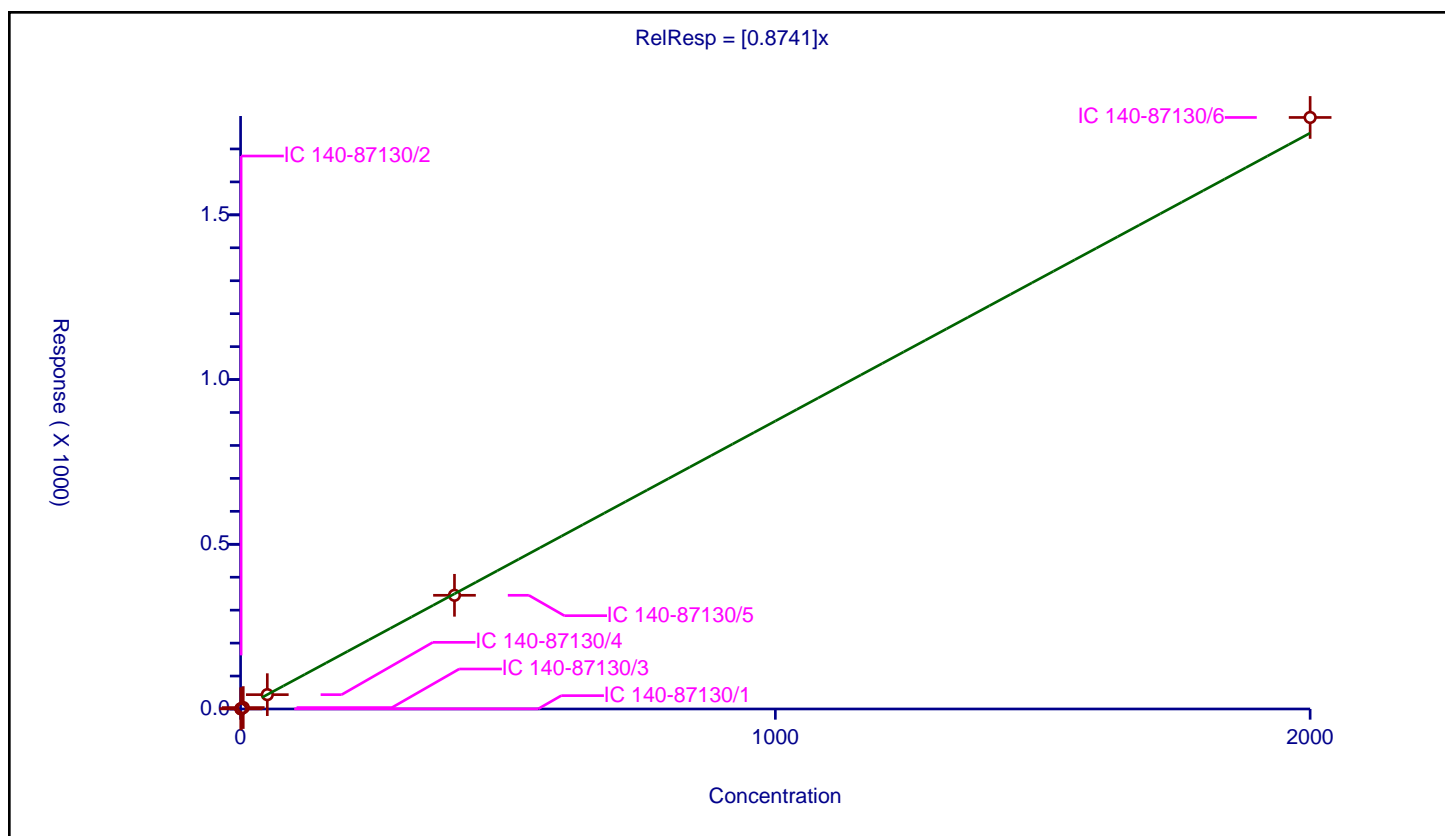
## Curve Coefficients

Intercept: 0  
Slope: 0.8741

## Error Coefficients

Relative Standard Deviation: 1.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.436777	100.0	6938320.0	0.873554	Y
2	IC 140-87130/2	1.0	0.875055	100.0	6240748.0	0.875055	Y
3	IC 140-87130/3	5.0	4.323926	100.0	6307301.0	0.864785	Y
4	IC 140-87130/4	50.0	43.540016	100.0	6455349.0	0.8708	Y
5	IC 140-87130/5	400.0	345.117681	100.0	6672003.0	0.862794	Y
6	IC 140-87130/6	2000.0	1795.657146	100.0	6975966.0	0.897829	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

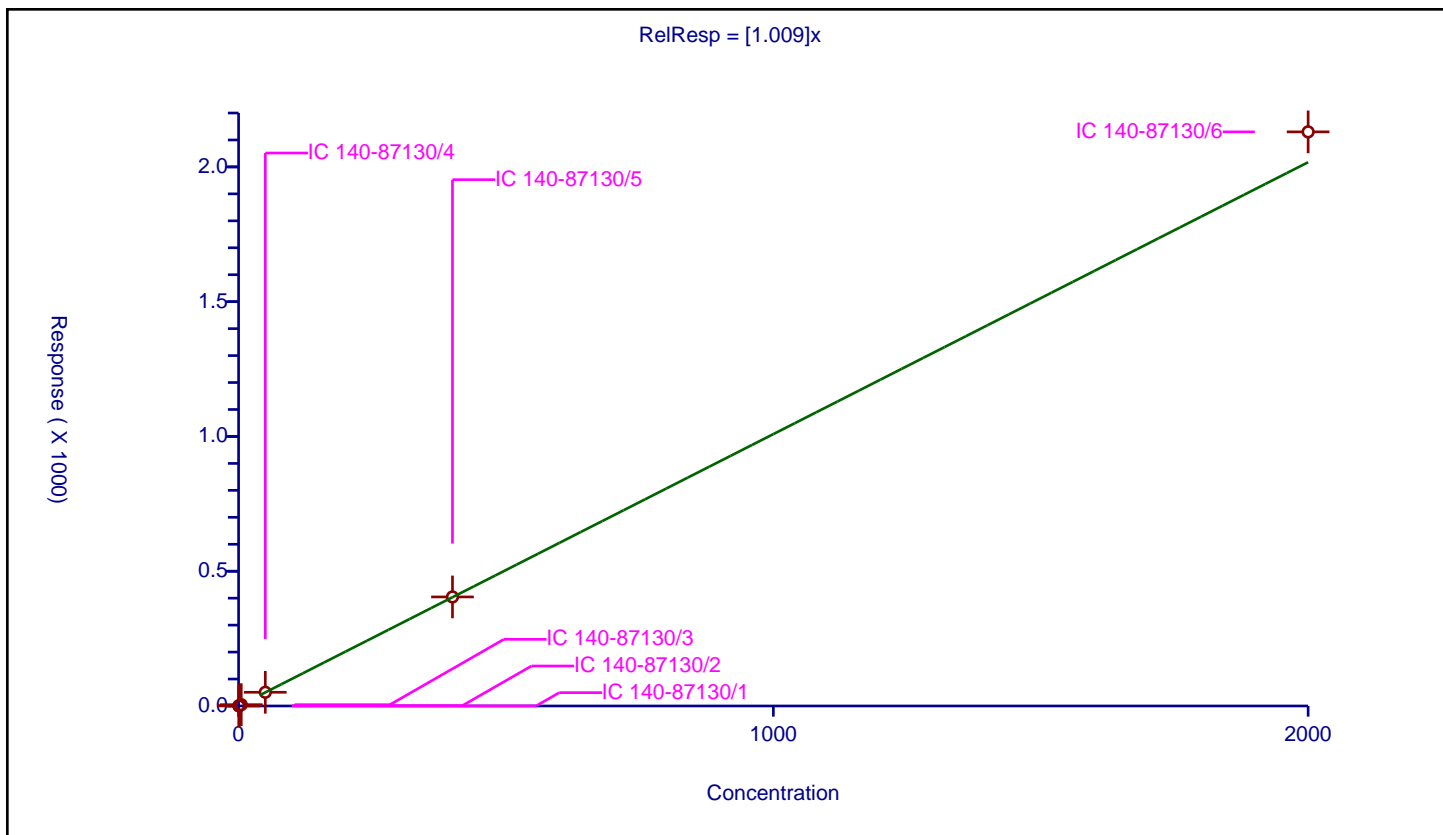
## Curve Coefficients

Intercept: 0  
Slope: 1.009

## Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.500899	100.0	6938320.0	1.001799	Y
2	IC 140-87130/2	1.0	0.985907	100.0	6240748.0	0.985907	Y
3	IC 140-87130/3	5.0	4.852313	100.0	6307301.0	0.970463	Y
4	IC 140-87130/4	50.0	50.879217	100.0	6455349.0	1.017584	Y
5	IC 140-87130/5	400.0	404.55307	100.0	6672003.0	1.011383	Y
6	IC 140-87130/6	2000.0	2130.089396	100.0	6975966.0	1.065045	Y



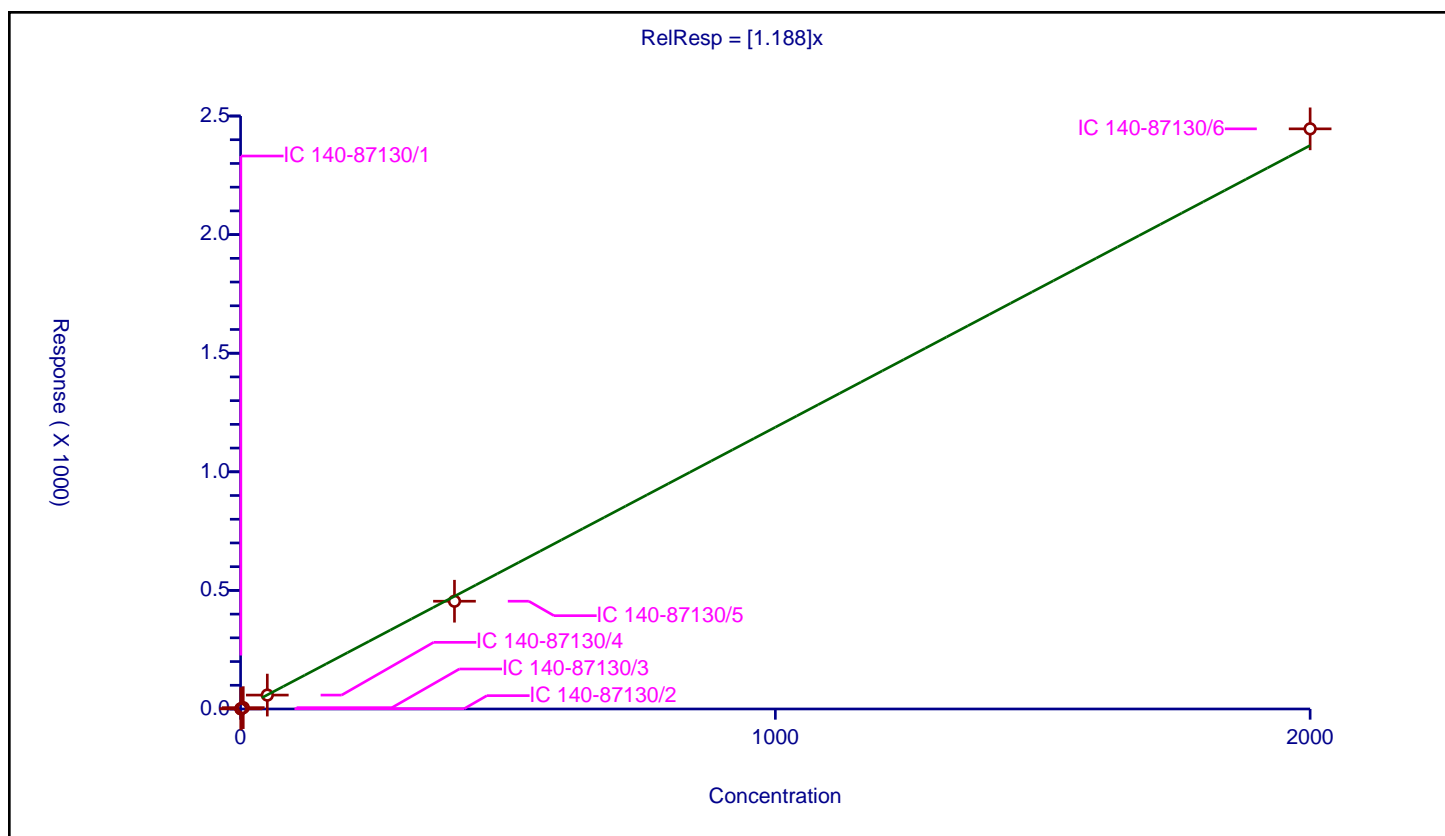
**/ PCB-105**

### Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.643369	100.0	10177357.0	1.286739	Y
2	IC 140-87130/2	1.0	1.18048	100.0	9101468.0	1.18048	Y
3	IC 140-87130/3	5.0	5.649296	100.0	9087875.0	1.129859	Y
4	IC 140-87130/4	50.0	58.580131	100.0	9433900.0	1.171603	Y
5	IC 140-87130/5	400.0	454.320655	100.0	10096861.0	1.135802	Y
6	IC 140-87130/6	2000.0	2445.973658	100.0	10771838.0	1.222987	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

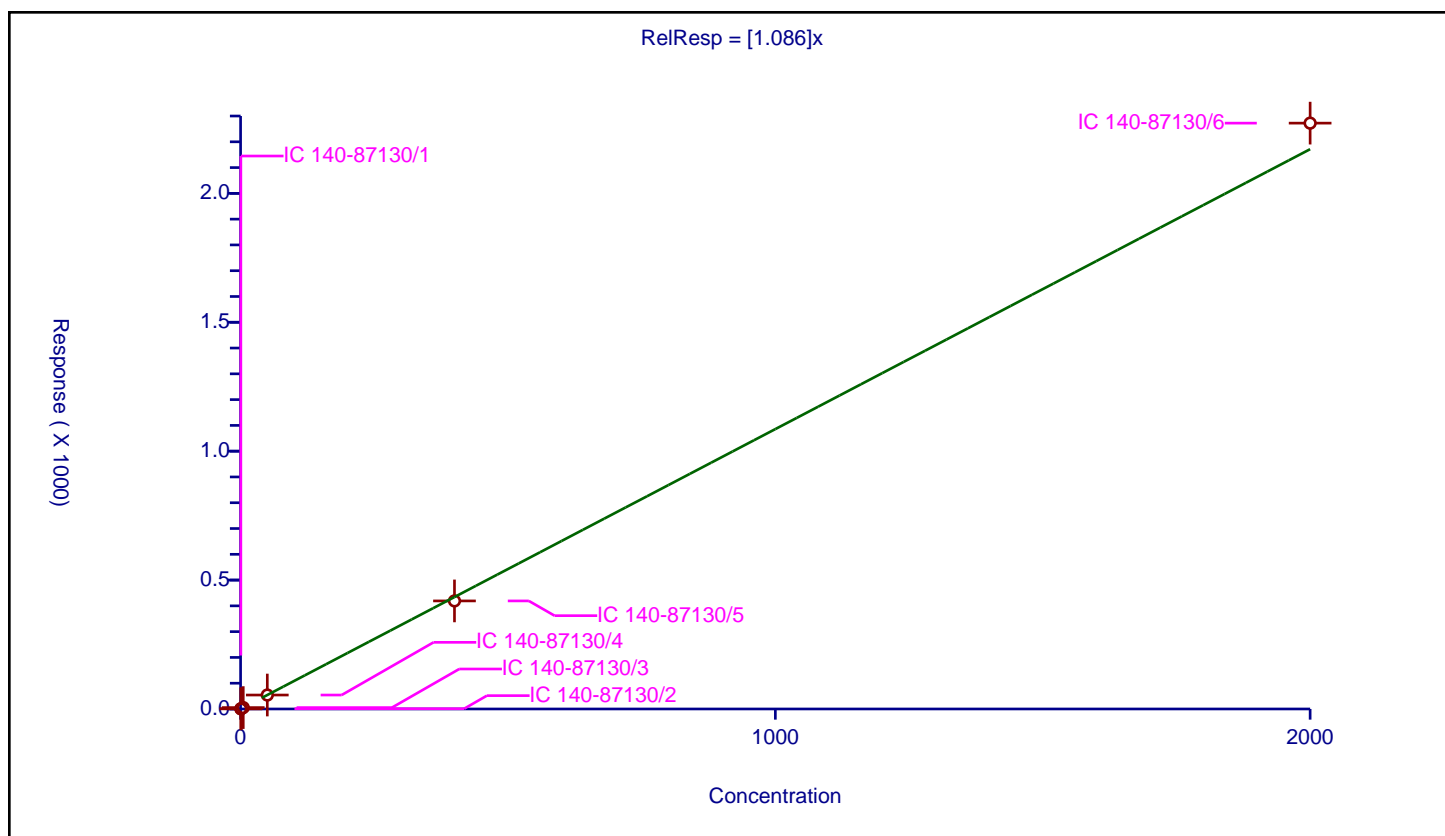
## Curve Coefficients

Intercept: 0  
Slope: 1.086

## Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.552515	100.0	10371480.0	1.10503	Y
2	IC 140-87130/2	1.0	1.066747	100.0	9073751.0	1.066747	Y
3	IC 140-87130/3	5.0	5.379468	100.0	9321962.0	1.075894	Y
4	IC 140-87130/4	50.0	54.09954	100.0	9501201.0	1.081991	Y
5	IC 140-87130/5	400.0	419.198391	100.0	10377703.0	1.047996	Y
6	IC 140-87130/6	2000.0	2272.377735	100.0	11406816.0	1.136189	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

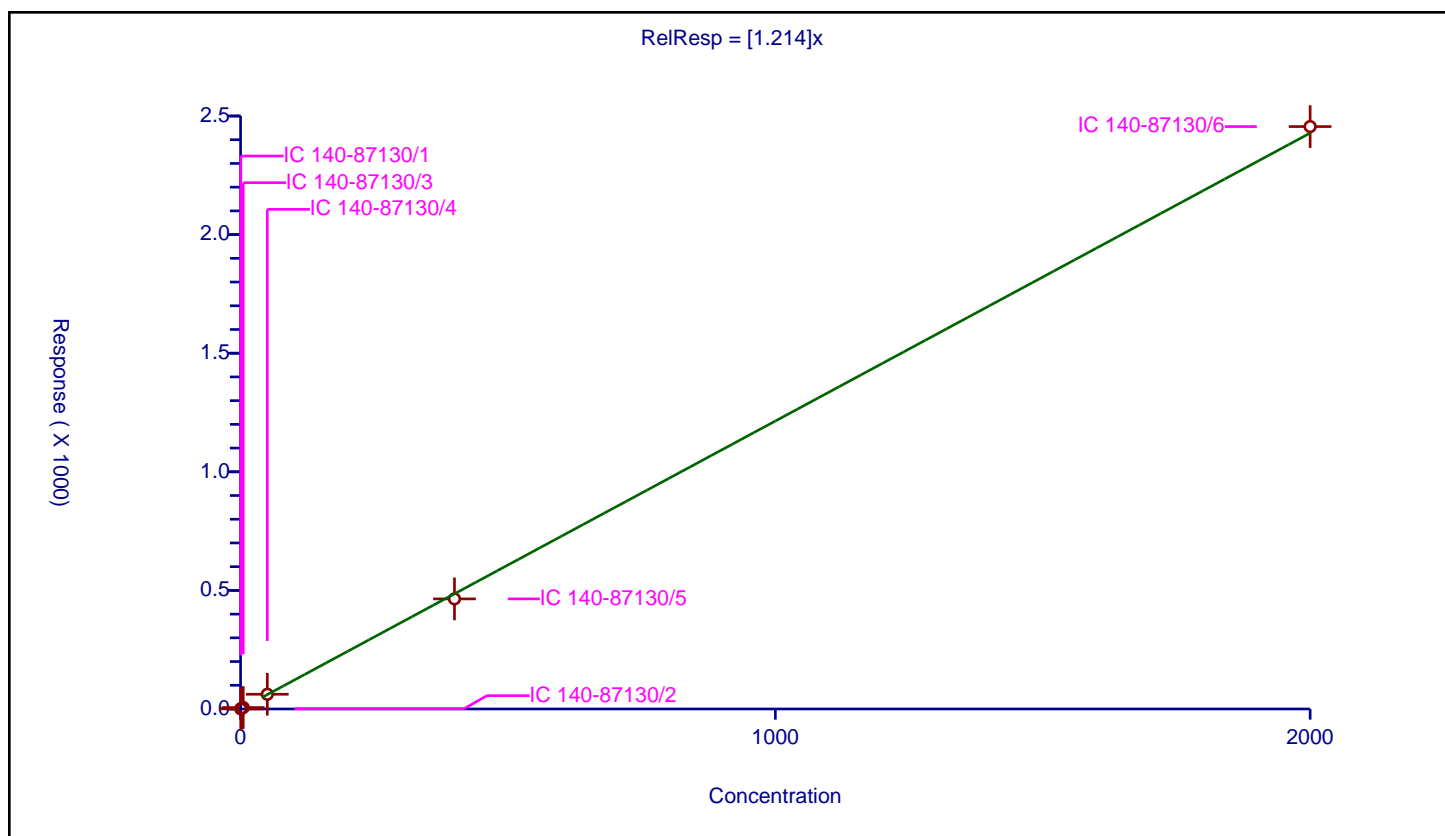
## Curve Coefficients

Intercept: 0  
Slope: 1.214

## Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.644141	100.0	10371480.0	1.288283	Y
2	IC 140-87130/2	1.0	1.130128	100.0	9073751.0	1.130128	Y
3	IC 140-87130/3	5.0	6.181971	100.0	9321962.0	1.236394	Y
4	IC 140-87130/4	50.0	62.070206	100.0	9501201.0	1.241404	Y
5	IC 140-87130/5	400.0	464.16233	100.0	10377703.0	1.160406	Y
6	IC 140-87130/6	2000.0	2455.446673	100.0	11406816.0	1.227723	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

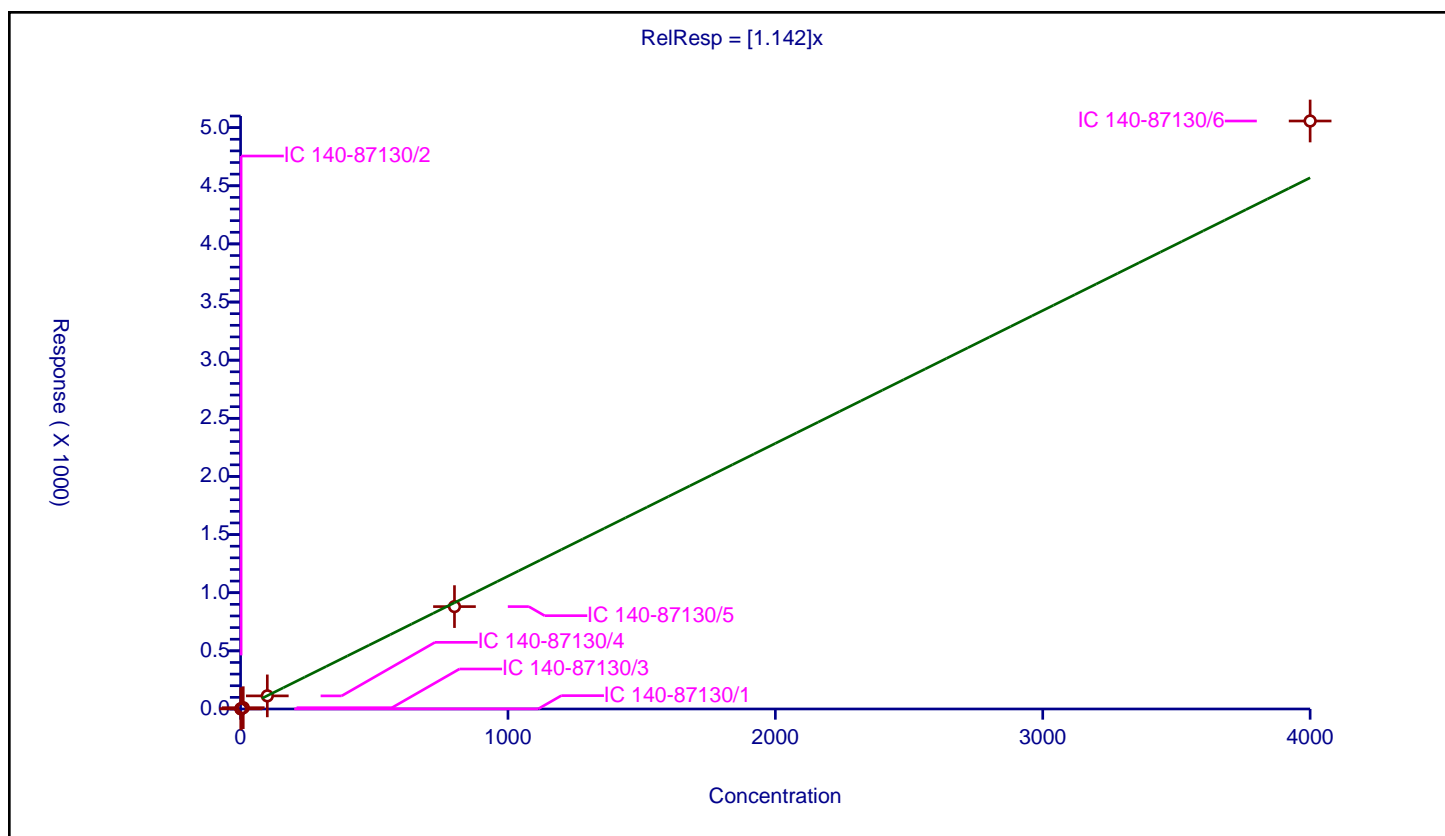
## Curve Coefficients

Intercept: 0  
Slope: 1.142

## Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.102851	100.0	10371480.0	1.102851	Y
2	IC 140-87130/2	2.0	2.298608	100.0	9073751.0	1.149304	Y
3	IC 140-87130/3	10.0	11.092751	100.0	9321962.0	1.109275	Y
4	IC 140-87130/4	100.0	112.681302	100.0	9501201.0	1.126813	Y
5	IC 140-87130/5	800.0	880.500569	100.0	10377703.0	1.100626	Y
6	IC 140-87130/6	4000.0	5057.136698	100.0	11406816.0	1.264284	Y



# Calibration

/ PCB-108/124

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

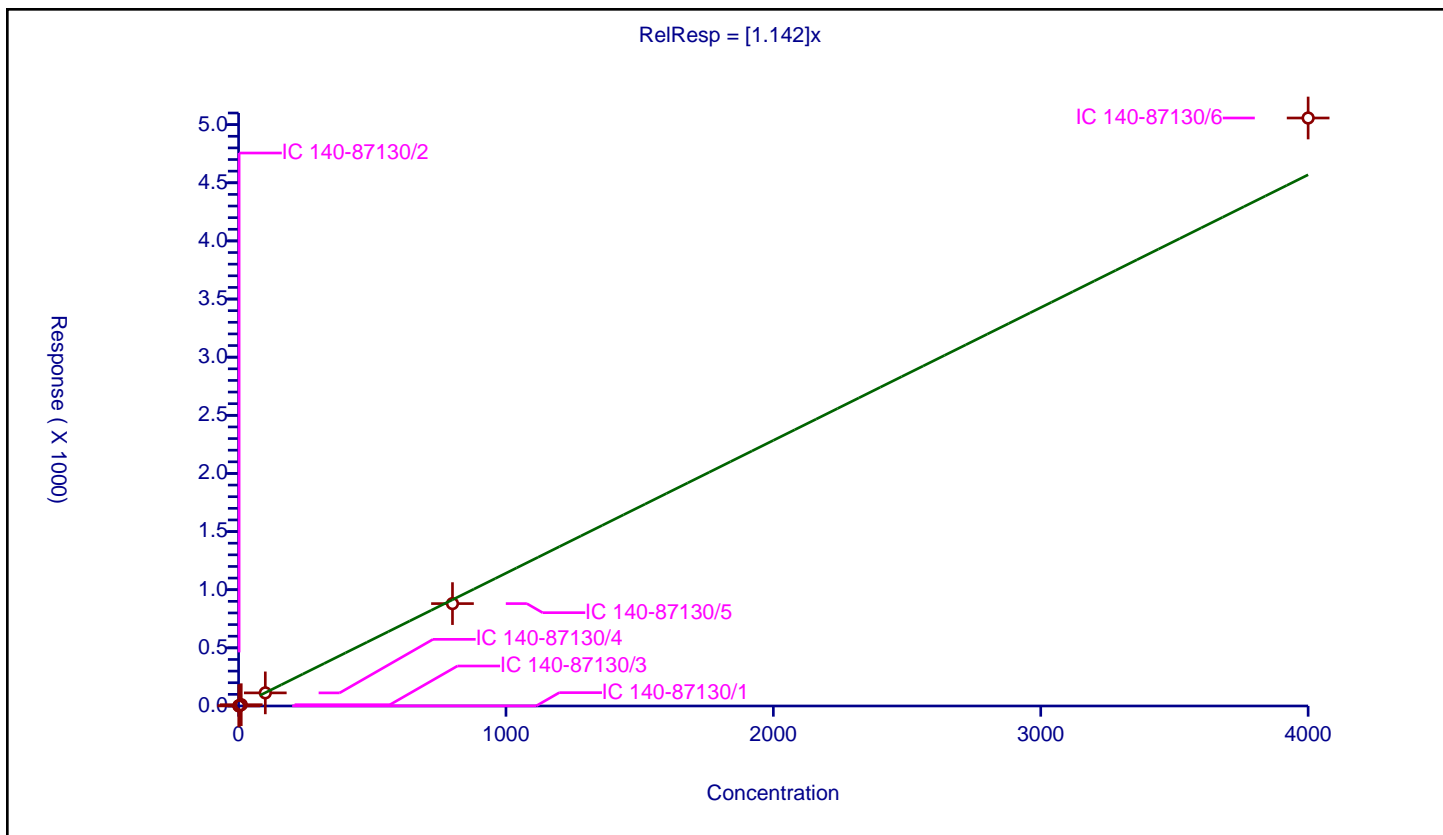
## Curve Coefficients

Intercept: 0  
 Slope: 1.142

## Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.102851	100.0	10371480.0	1.102851	Y
2	IC 140-87130/2	2.0	2.298608	100.0	9073751.0	1.149304	Y
3	IC 140-87130/3	10.0	11.092751	100.0	9321962.0	1.109275	Y
4	IC 140-87130/4	100.0	112.681302	100.0	9501201.0	1.126813	Y
5	IC 140-87130/5	800.0	880.500569	100.0	10377703.0	1.100626	Y
6	IC 140-87130/6	4000.0	5057.136698	100.0	11406816.0	1.264284	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

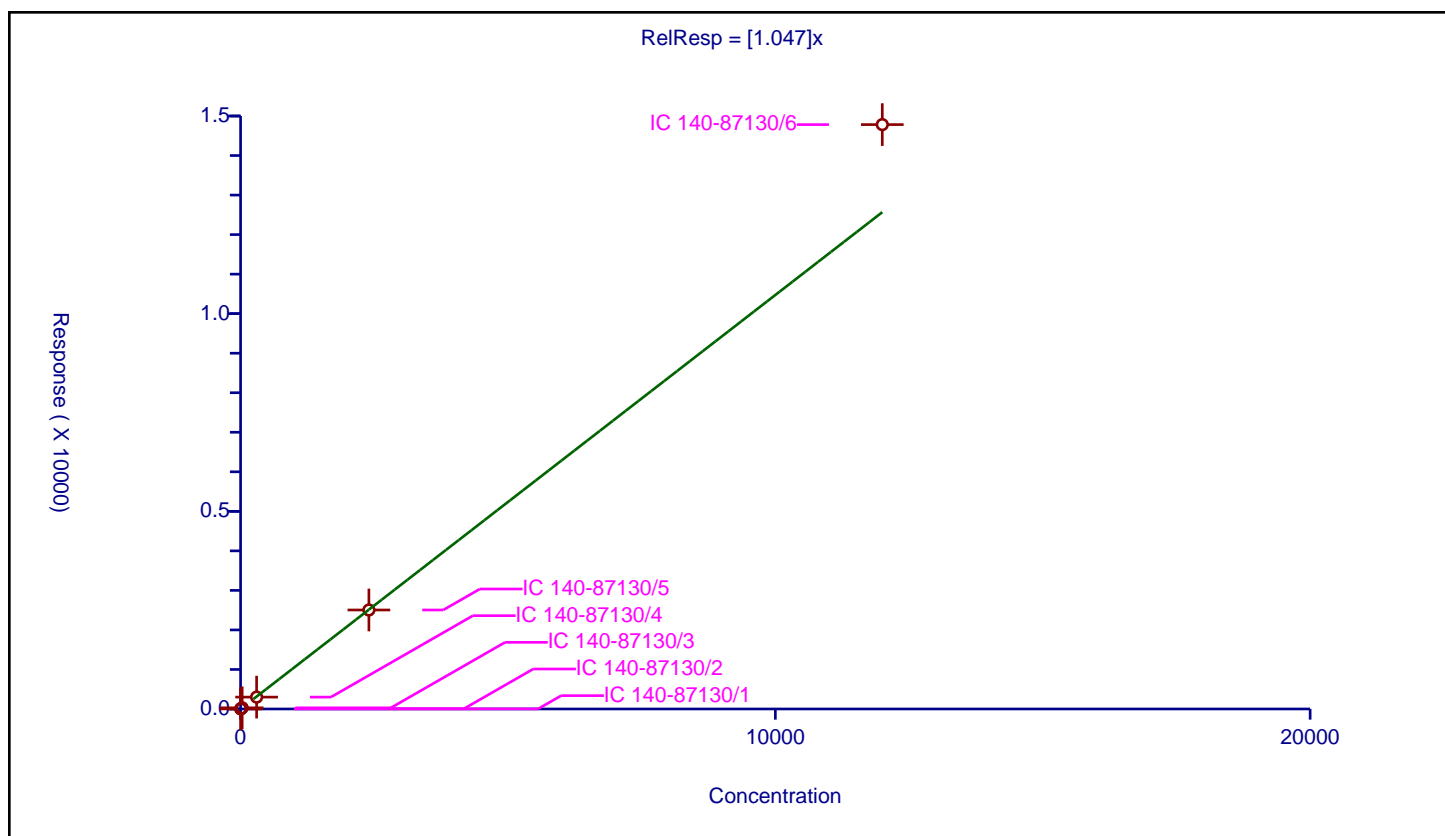
## Curve Coefficients

Intercept: 0  
Slope: 1.047

## Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

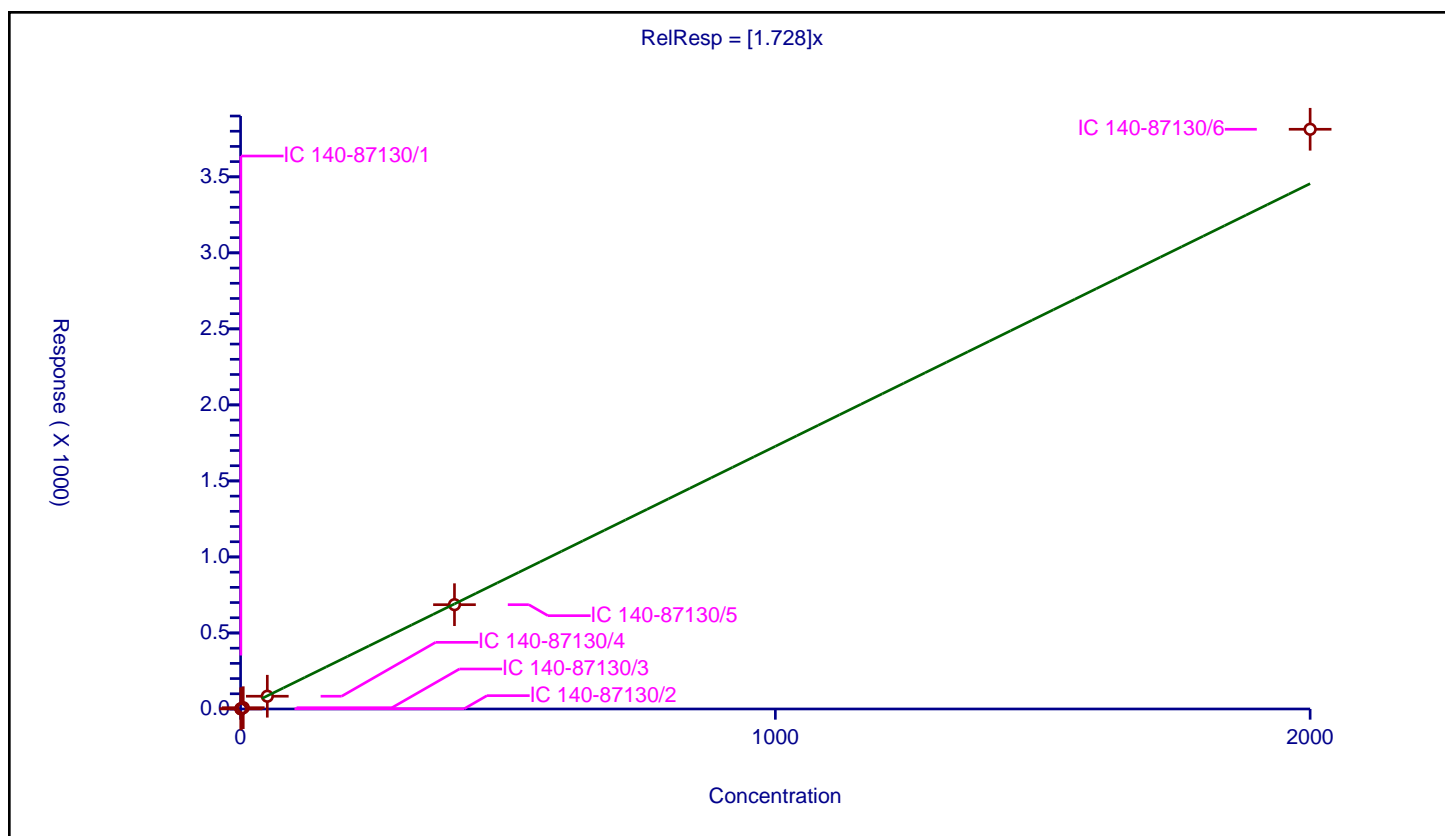
## Curve Coefficients

Intercept: 0  
Slope: 1.728

## Error Coefficients

Relative Standard Deviation: 7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.905984	100.0	5904521.0	1.811967	Y
2	IC 140-87130/2	1.0	1.53648	100.0	5442766.0	1.53648	Y
3	IC 140-87130/3	5.0	8.577671	100.0	5279032.0	1.715534	Y
4	IC 140-87130/4	50.0	84.007238	100.0	5474214.0	1.680145	Y
5	IC 140-87130/5	400.0	686.009431	100.0	5561618.0	1.715024	Y
6	IC 140-87130/6	2000.0	3812.897707	100.0	5672202.0	1.906449	Y



# Calibration

/ PCB-110

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

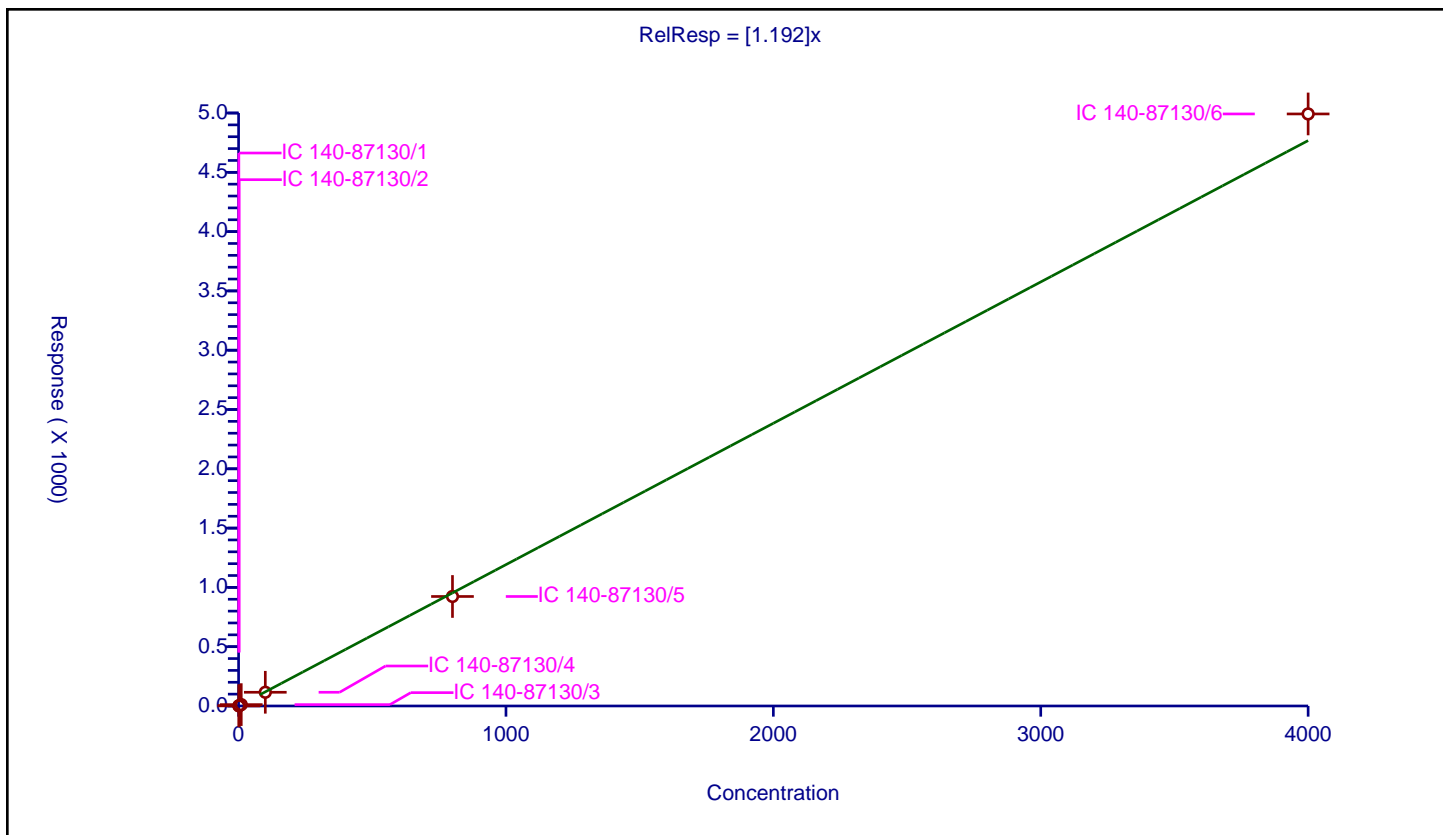
## Curve Coefficients

Intercept: 0  
 Slope: 1.192

## Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.201905	100.0	6938320.0	1.201905	Y
2	IC 140-87130/2	2.0	2.454065	100.0	6240748.0	1.227032	Y
3	IC 140-87130/3	10.0	11.638766	100.0	6307301.0	1.163877	Y
4	IC 140-87130/4	100.0	115.613439	100.0	6455349.0	1.156134	Y
5	IC 140-87130/5	800.0	923.3365	100.0	6672003.0	1.154171	Y
6	IC 140-87130/6	4000.0	4992.179348	100.0	6975966.0	1.248045	Y



# Calibration

/ PCB-110/115

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

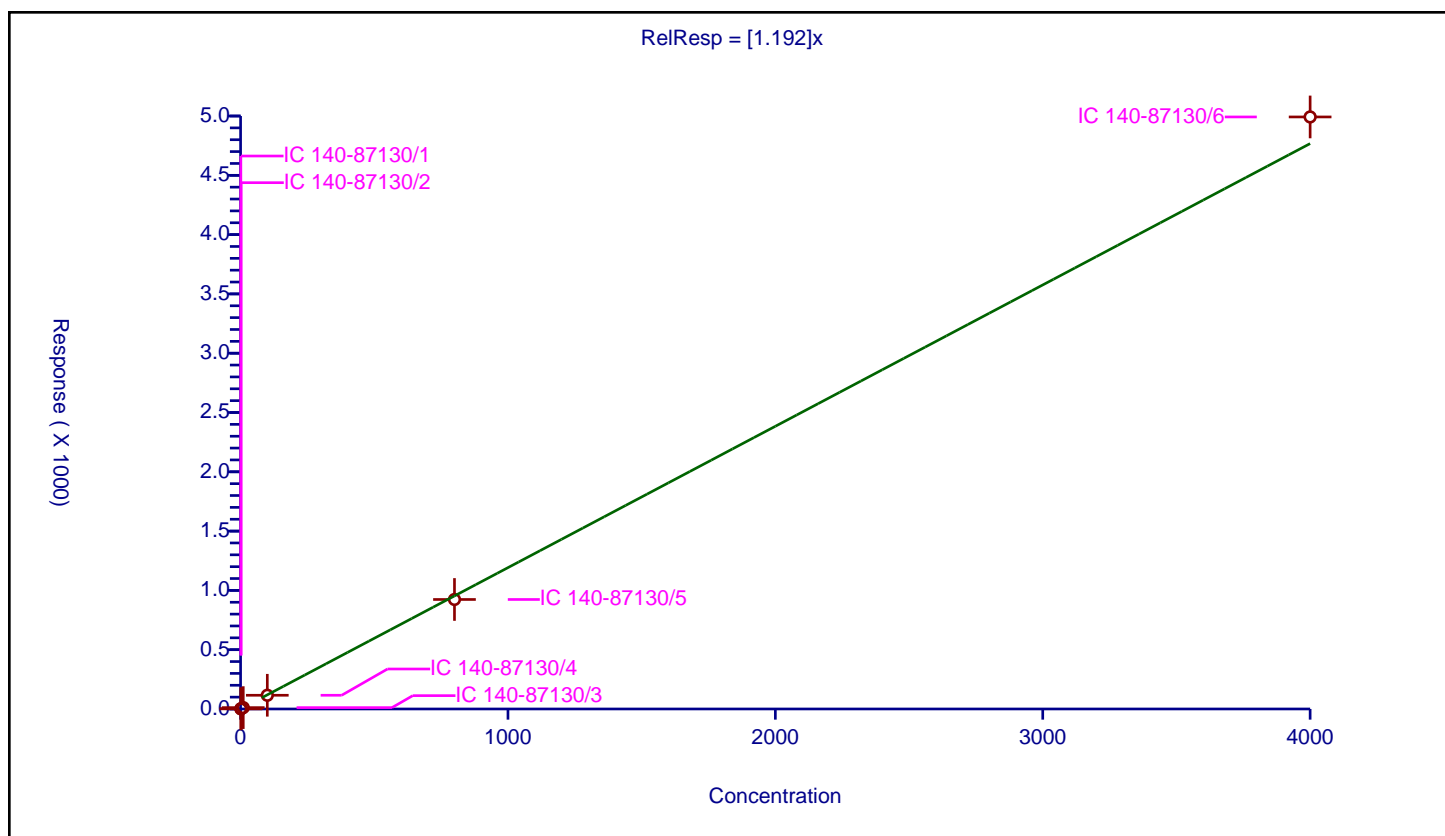
## Curve Coefficients

Intercept: 0  
 Slope: 1.192

## Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.201905	100.0	6938320.0	1.201905	Y
2	IC 140-87130/2	2.0	2.454065	100.0	6240748.0	1.227032	Y
3	IC 140-87130/3	10.0	11.638766	100.0	6307301.0	1.163877	Y
4	IC 140-87130/4	100.0	115.613439	100.0	6455349.0	1.156134	Y
5	IC 140-87130/5	800.0	923.3365	100.0	6672003.0	1.154171	Y
6	IC 140-87130/6	4000.0	4992.179348	100.0	6975966.0	1.248045	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

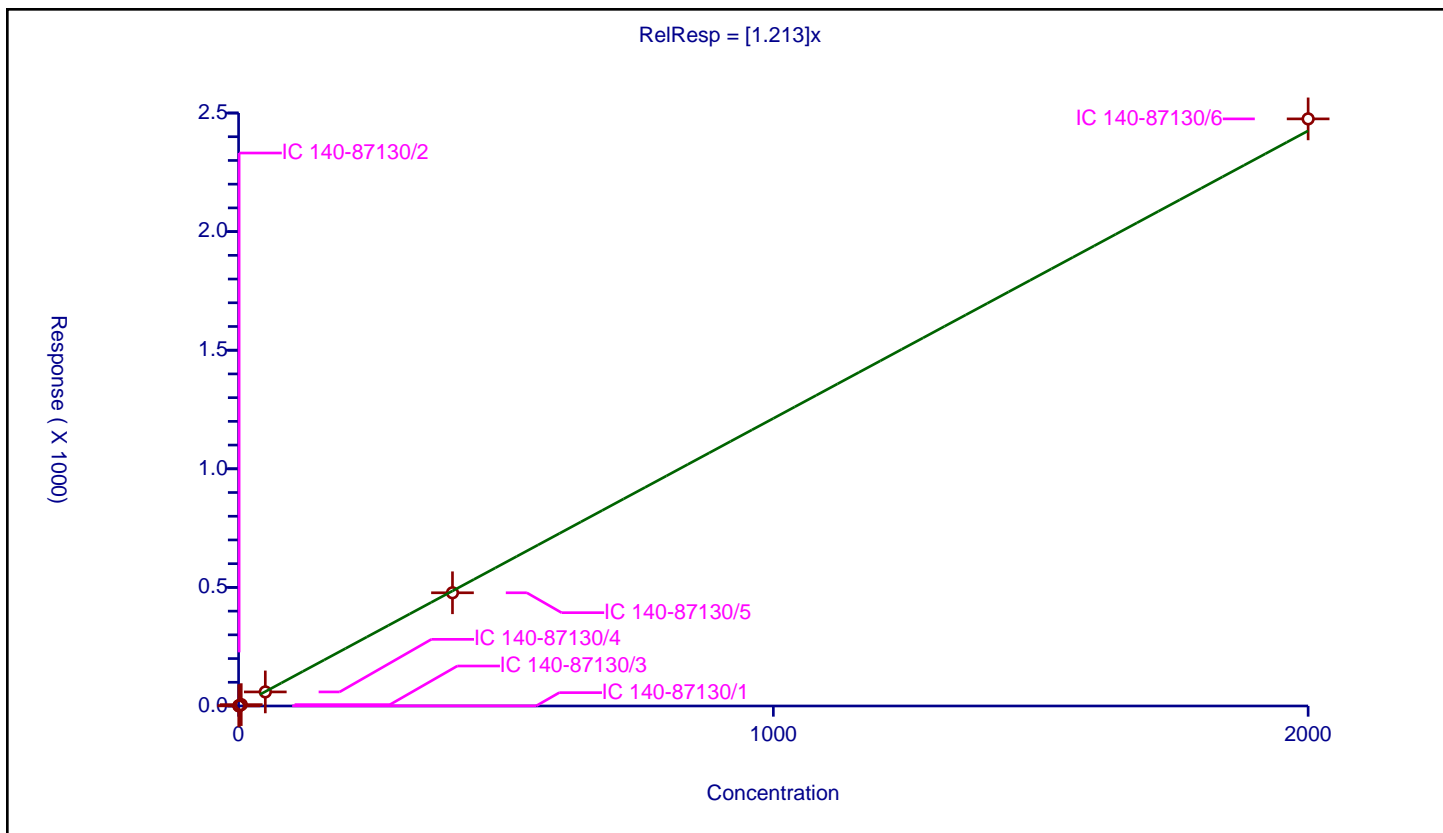
## Curve Coefficients

Intercept: 0  
Slope: 1.213

## Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.579305	100.0	6938320.0	1.158609	Y
2	IC 140-87130/2	1.0	1.336875	100.0	6240748.0	1.336875	Y
3	IC 140-87130/3	5.0	5.817496	100.0	6307301.0	1.163499	Y
4	IC 140-87130/4	50.0	59.254674	100.0	6455349.0	1.185093	Y
5	IC 140-87130/5	400.0	477.365927	100.0	6672003.0	1.193415	Y
6	IC 140-87130/6	2000.0	2475.269203	100.0	6975966.0	1.237635	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

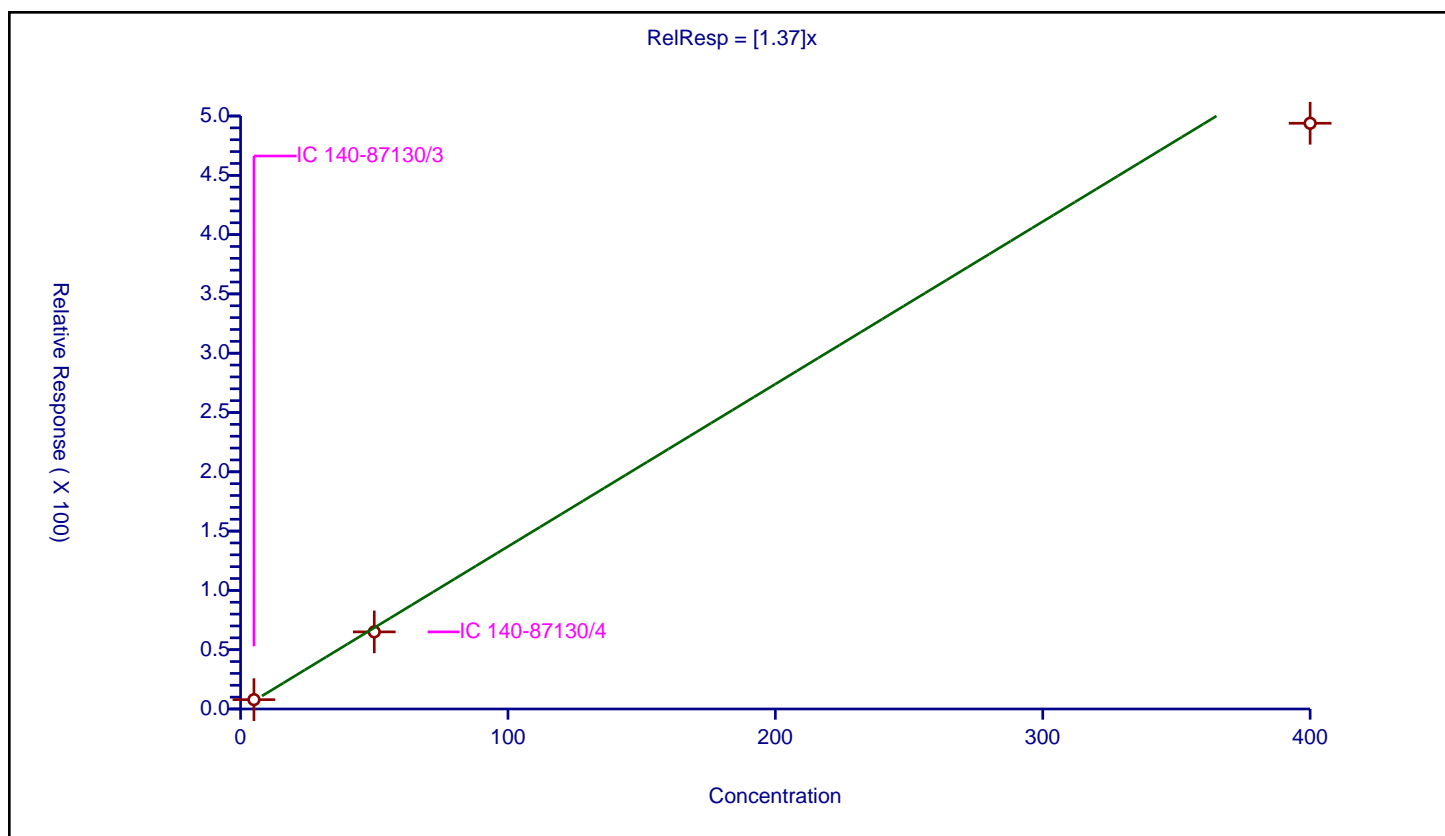
## Curve Coefficients

Intercept: 0  
Slope: 1.37

## Error Coefficients

Relative Standard Deviation: 13.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	7.872484	100.0	5008775.0	1.574497	Y
2	IC 140-87130/4	50.0	65.024134	100.0	5228368.0	1.300483	Y
3	IC 140-87130/5	400.0	493.88691	100.0	5633550.0	1.234717	Y





## Calibration

/ PCB-112

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

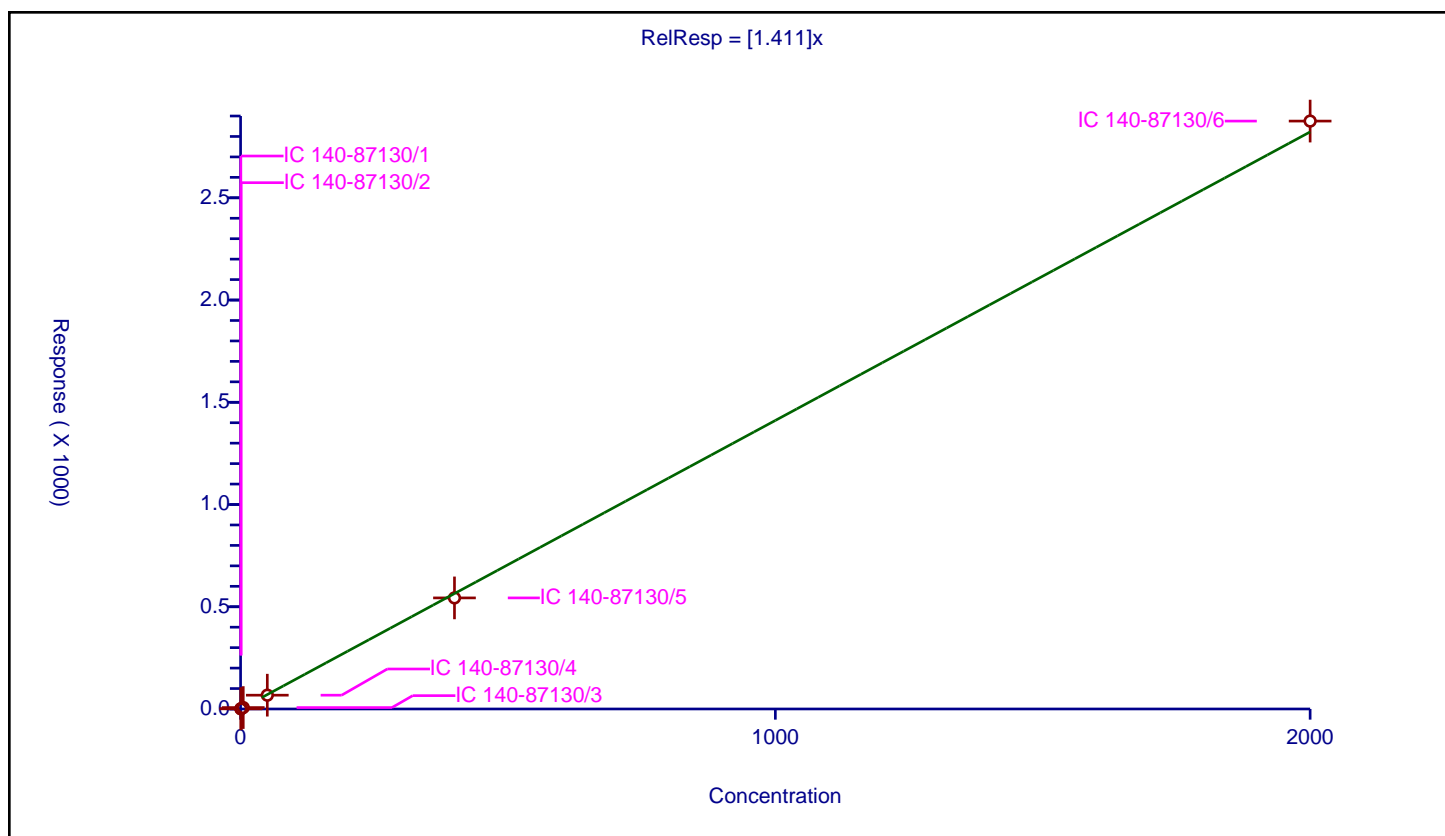
## Curve Coefficients

Intercept: 0  
Slope: 1.411

## Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.722279	100.0	6938320.0	1.444557	Y
2	IC 140-87130/2	1.0	1.488507	100.0	6240748.0	1.488507	Y
3	IC 140-87130/3	5.0	6.936121	100.0	6307301.0	1.387224	Y
4	IC 140-87130/4	50.0	67.531562	100.0	6455349.0	1.350631	Y
5	IC 140-87130/5	400.0	543.236282	100.0	6672003.0	1.358091	Y
6	IC 140-87130/6	2000.0	2875.272113	100.0	6975966.0	1.437636	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

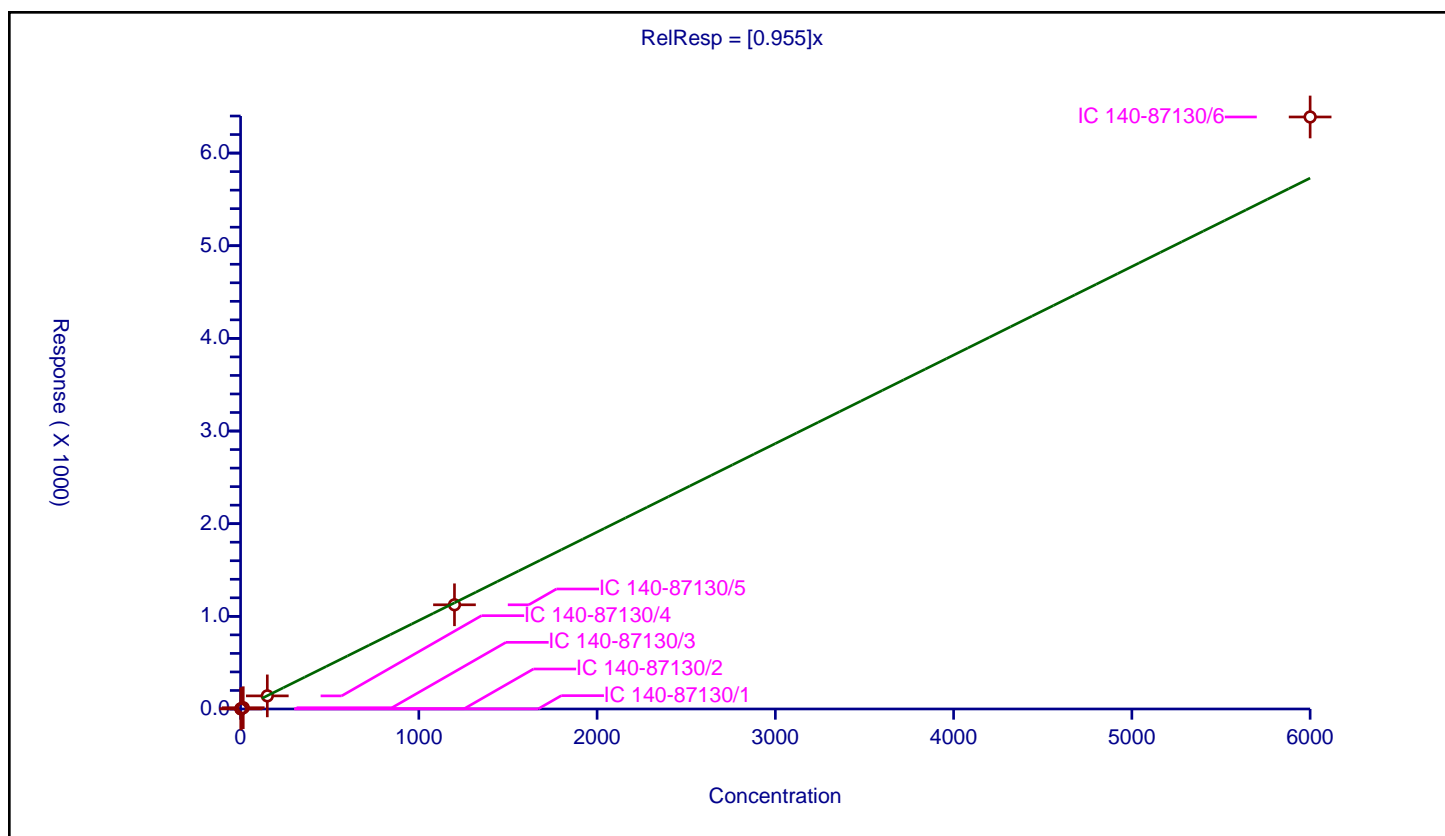
## Curve Coefficients

Intercept: 0  
Slope: 0.955

## Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



# Calibration

/ PCB-114

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

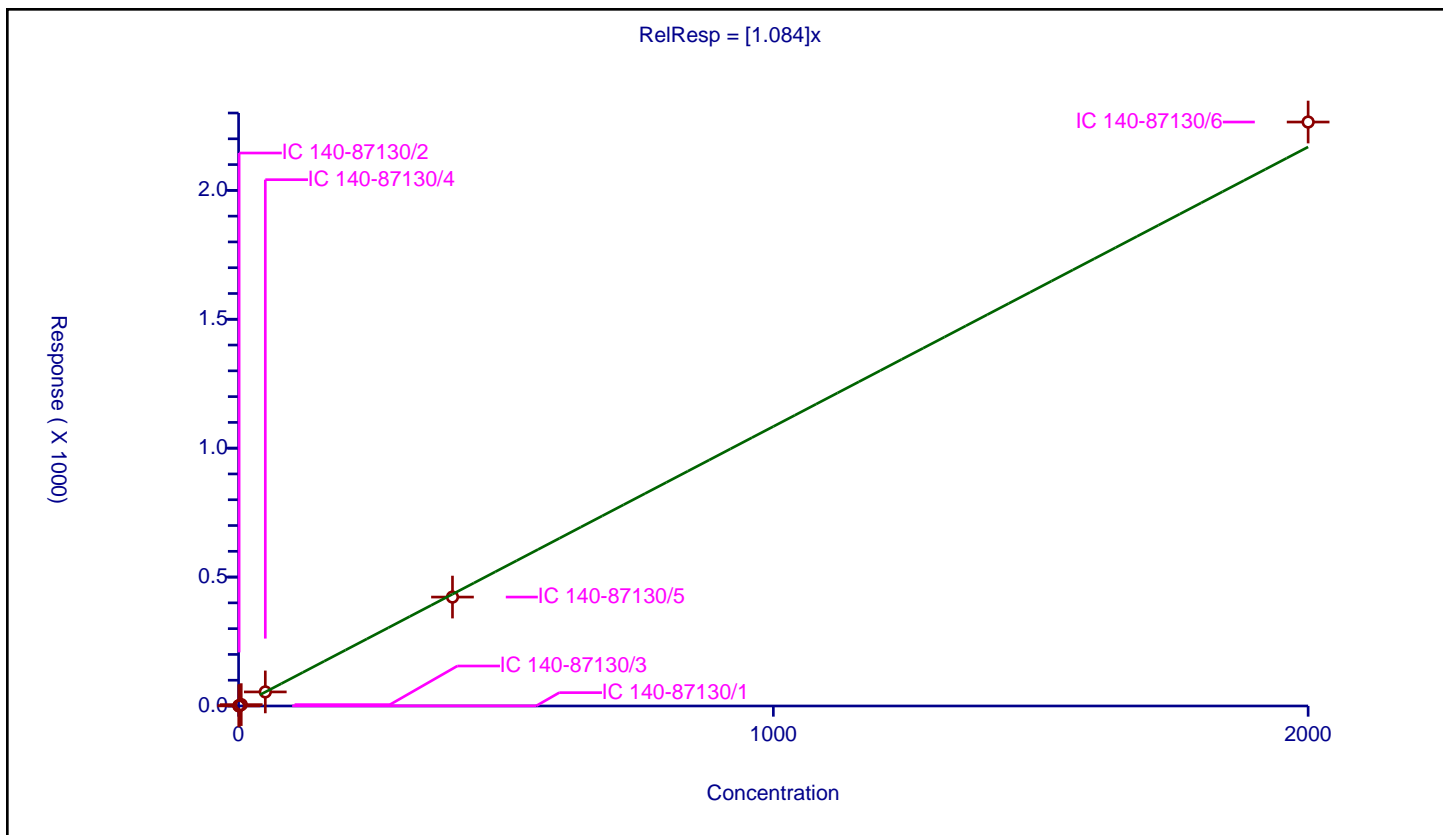
## Curve Coefficients

Intercept: 0  
 Slope: 1.084

## Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.530477	100.0	10504311.0	1.060955	Y
2	IC 140-87130/2	1.0	1.106681	100.0	9705413.0	1.106681	Y
3	IC 140-87130/3	5.0	5.290959	100.0	9387618.0	1.058192	Y
4	IC 140-87130/4	50.0	54.520315	100.0	9734953.0	1.090406	Y
5	IC 140-87130/5	400.0	422.463958	100.0	10559524.0	1.05616	Y
6	IC 140-87130/6	2000.0	2265.056641	100.0	11474644.0	1.132528	Y



# Calibration

/ PCB-115

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

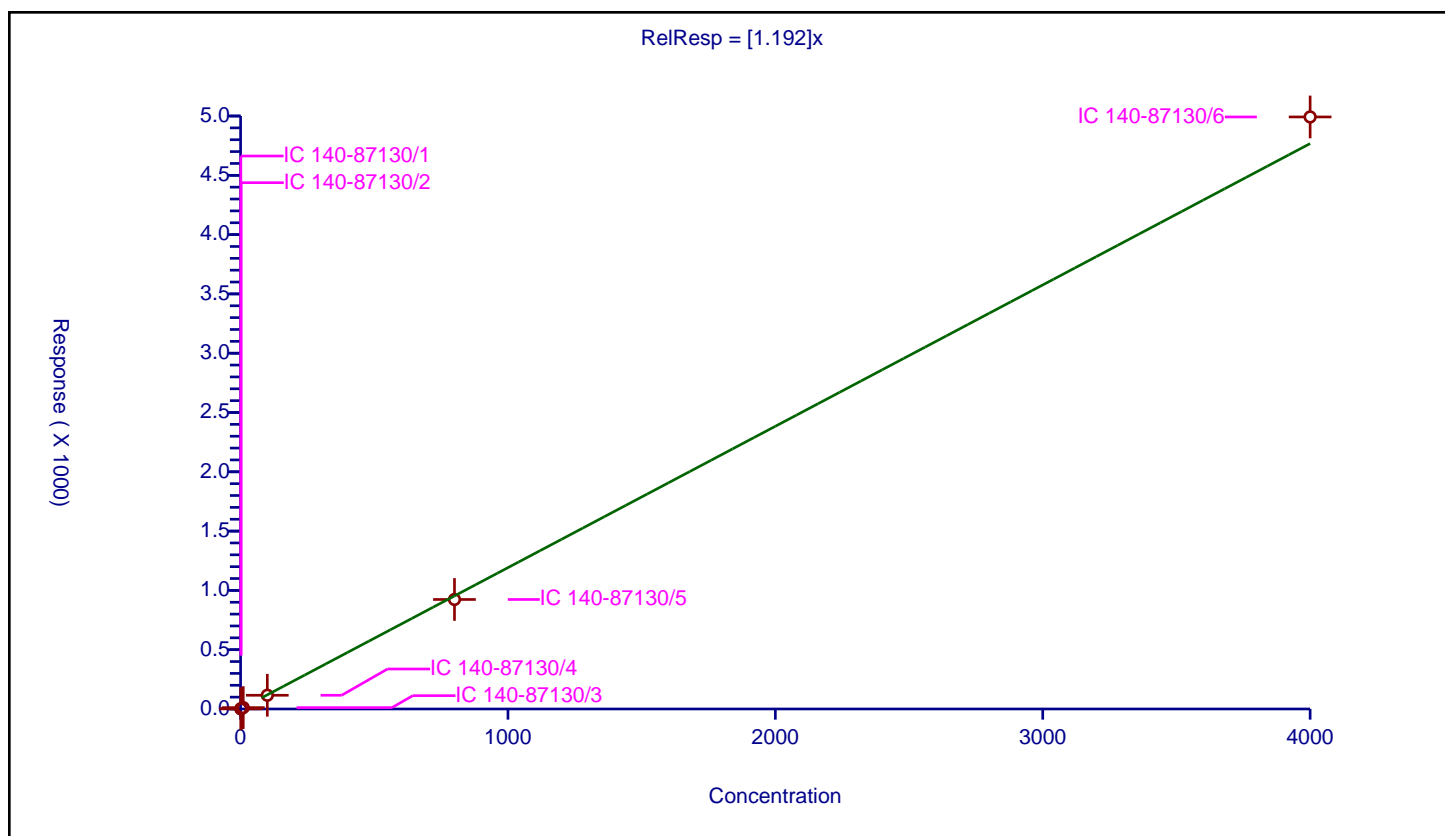
## Curve Coefficients

Intercept: 0  
Slope: 1.192

## Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.201905	100.0	6938320.0	1.201905	Y
2	IC 140-87130/2	2.0	2.454065	100.0	6240748.0	1.227032	Y
3	IC 140-87130/3	10.0	11.638766	100.0	6307301.0	1.163877	Y
4	IC 140-87130/4	100.0	115.613439	100.0	6455349.0	1.156134	Y
5	IC 140-87130/5	800.0	923.3365	100.0	6672003.0	1.154171	Y
6	IC 140-87130/6	4000.0	4992.179348	100.0	6975966.0	1.248045	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

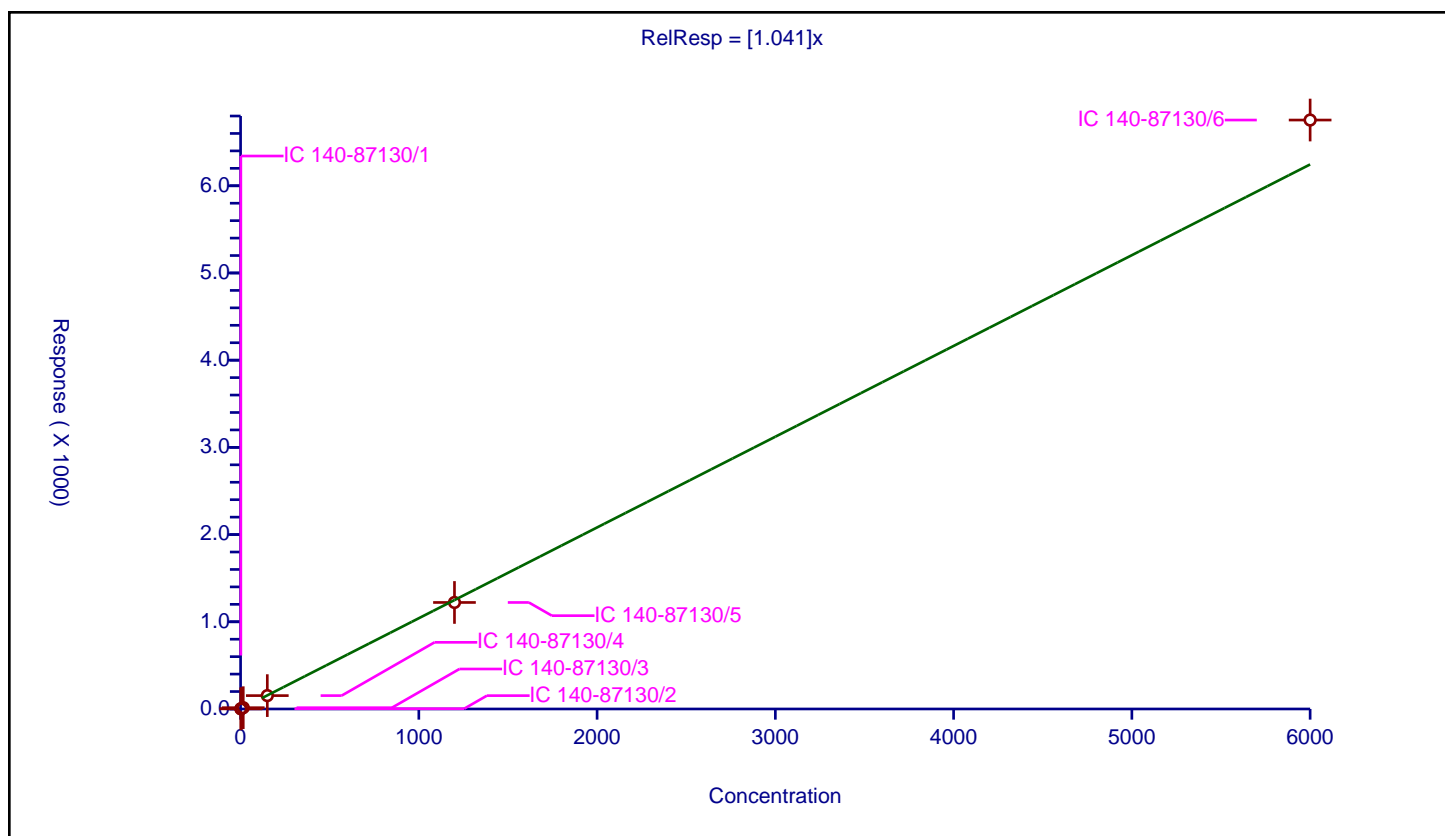
## Curve Coefficients

Intercept: 0  
Slope: 1.041

## Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

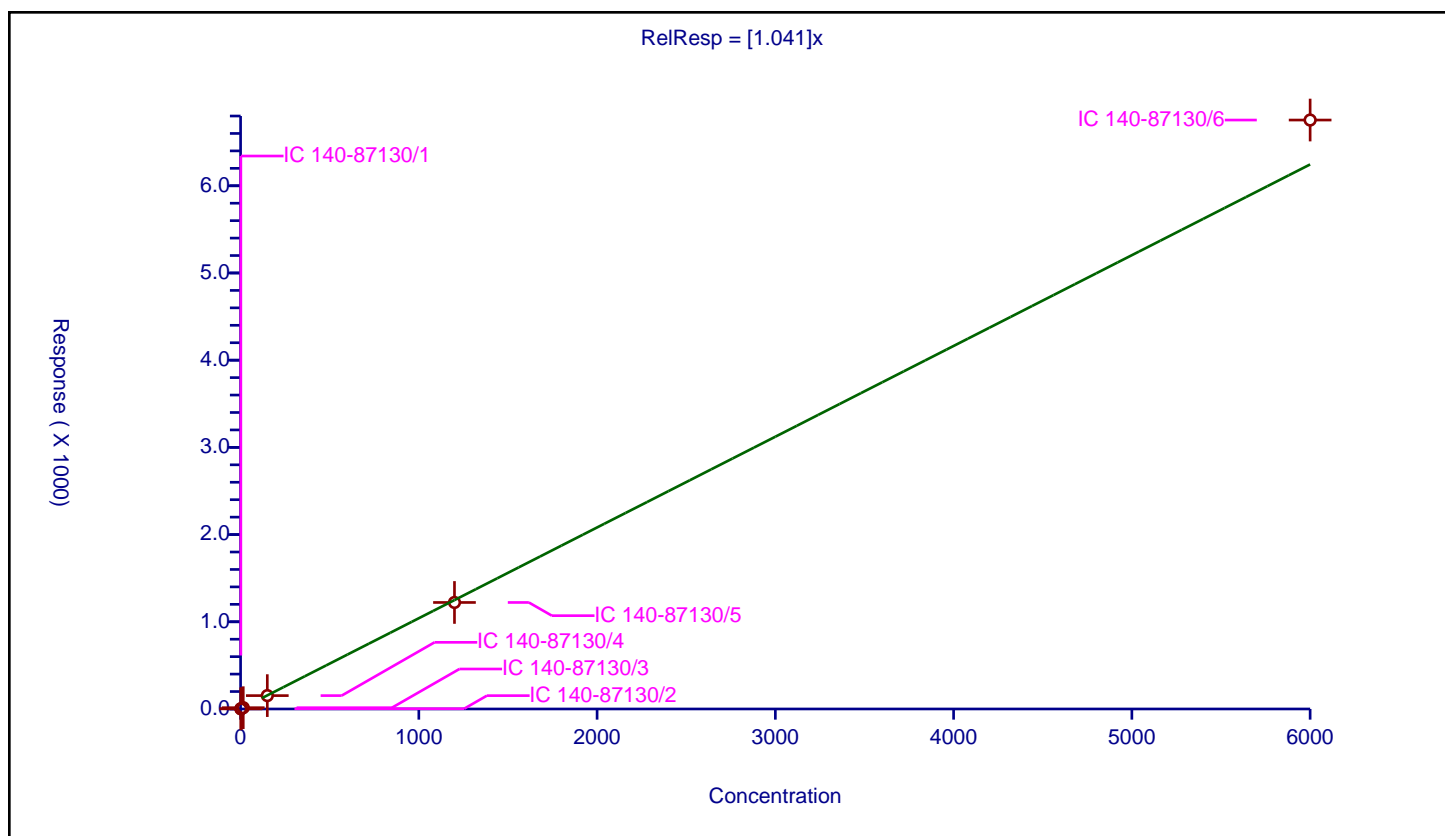
## Curve Coefficients

Intercept: 0  
Slope: 1.041

## Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

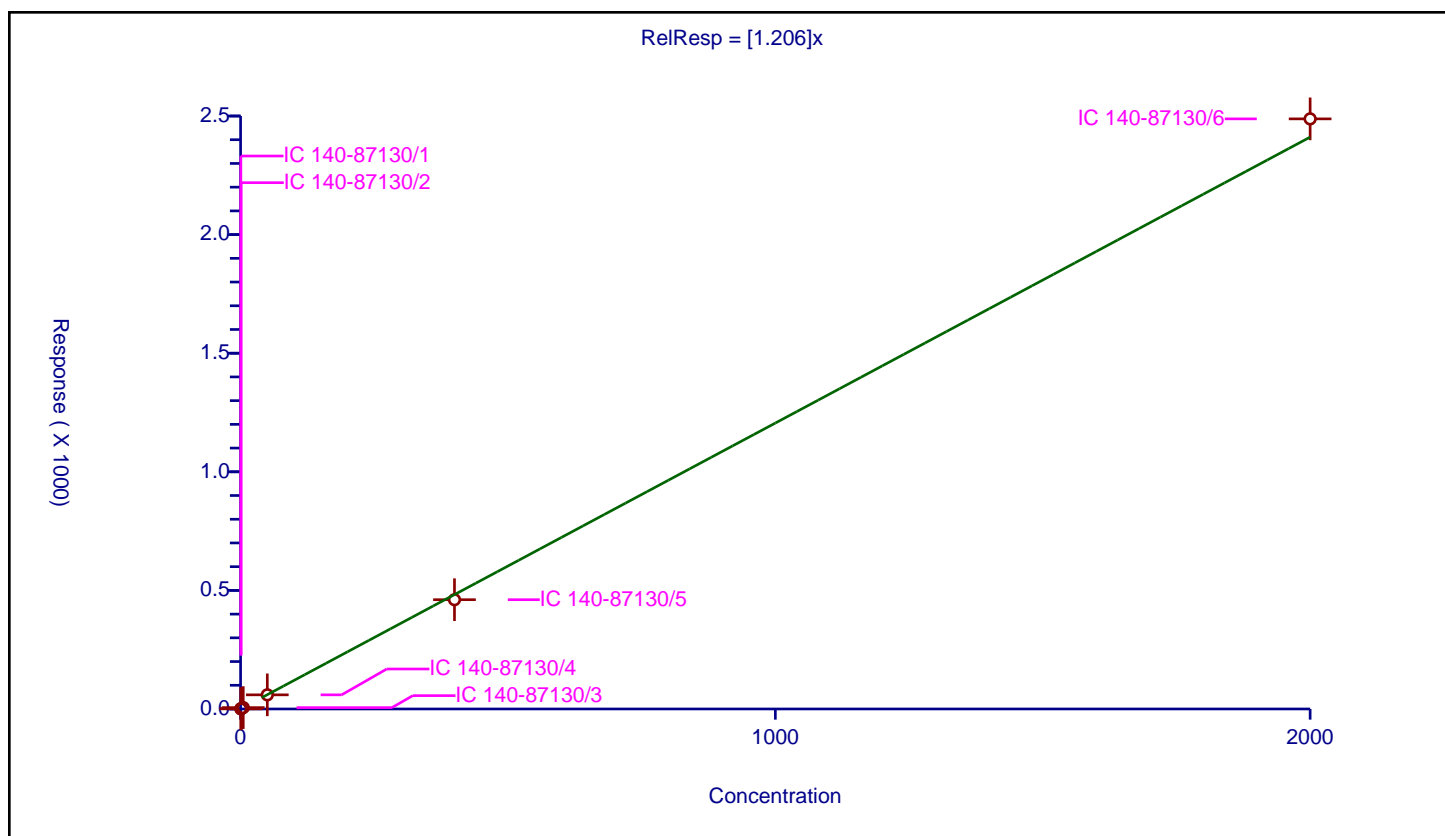
## Curve Coefficients

Intercept: 0  
Slope: 1.206

## Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.609173	100.0	10759990.0	1.218347	Y
2	IC 140-87130/2	1.0	1.261874	100.0	9353232.0	1.261874	Y
3	IC 140-87130/3	5.0	5.826279	100.0	9948185.0	1.165256	Y
4	IC 140-87130/4	50.0	59.595331	100.0	10094764.0	1.191907	Y
5	IC 140-87130/5	400.0	460.770003	100.0	10740248.0	1.151925	Y
6	IC 140-87130/6	2000.0	2487.929052	100.0	11370905.0	1.243965	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

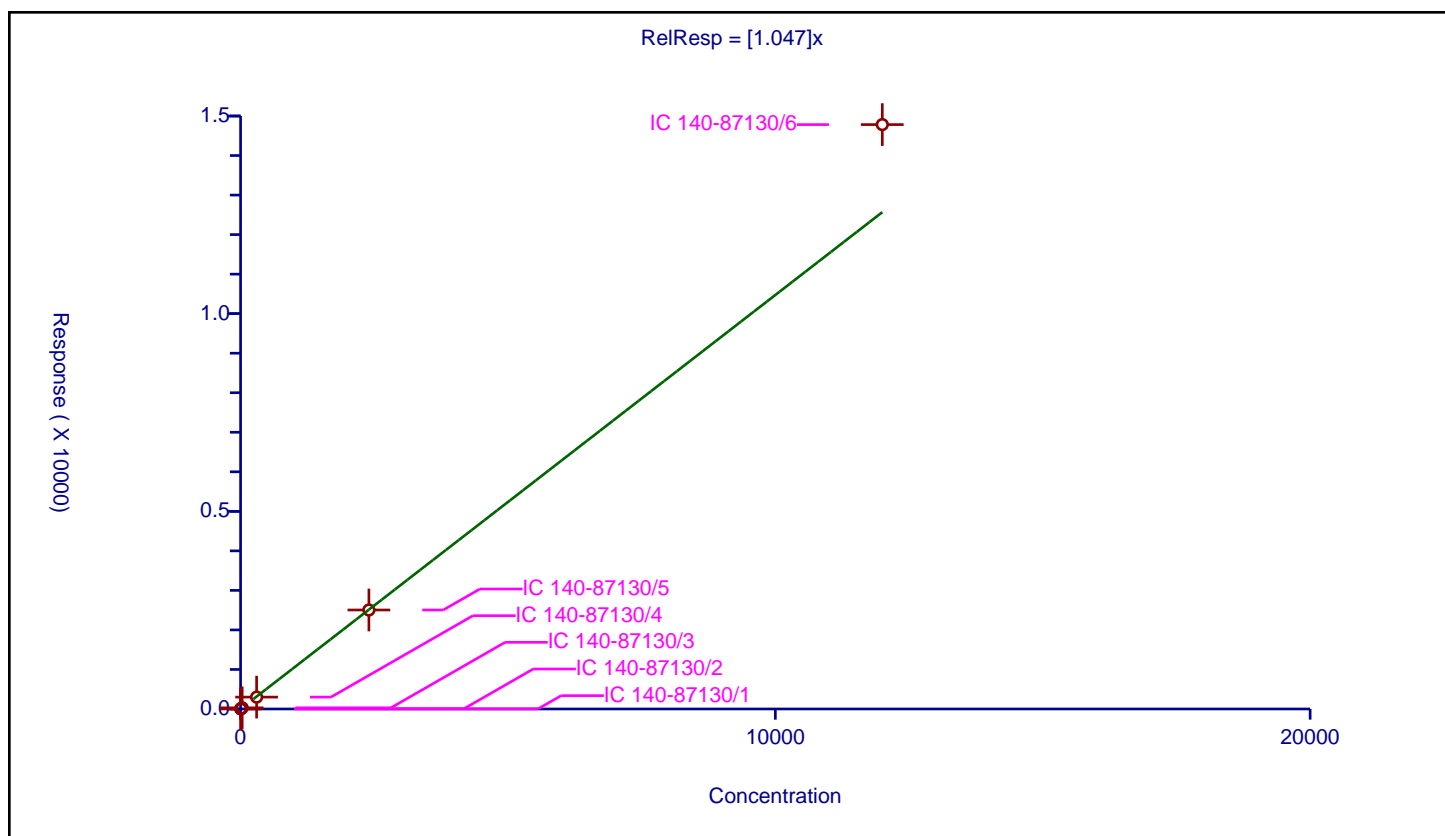
## Curve Coefficients

Intercept: 0  
Slope: 1.047

## Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

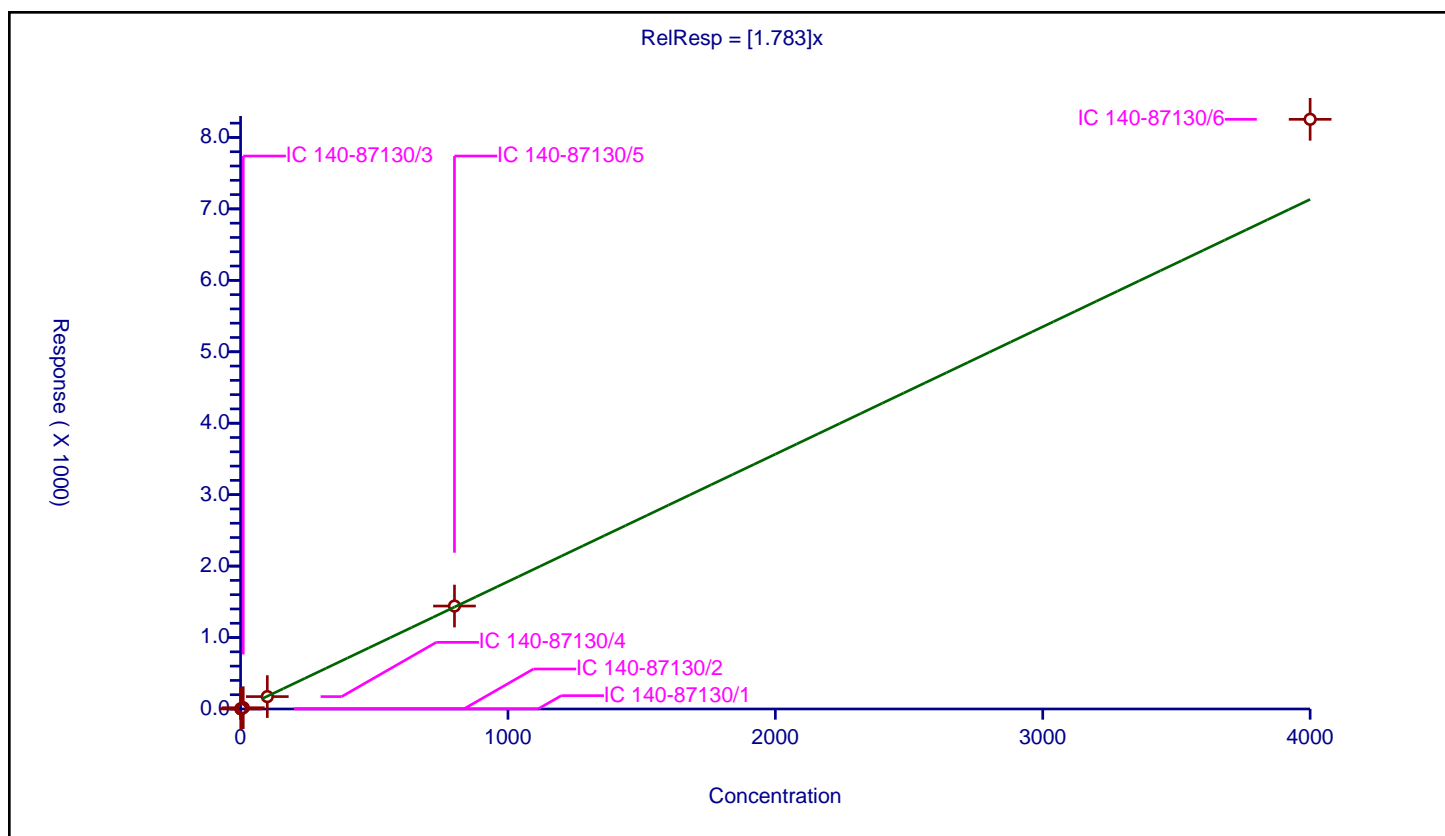
## Curve Coefficients

Intercept: 0  
Slope: 1.783

## Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.645773	100.0	5904521.0	1.645773	Y
2	IC 140-87130/2	2.0	3.337329	100.0	5442766.0	1.668664	Y
3	IC 140-87130/3	10.0	17.87178	100.0	5279032.0	1.787178	Y
4	IC 140-87130/4	100.0	173.311548	100.0	5474214.0	1.733115	Y
5	IC 140-87130/5	800.0	1441.118879	100.0	5561618.0	1.801399	Y
6	IC 140-87130/6	4000.0	8253.622121	100.0	5672202.0	2.063406	Y



# Calibration

/ PCB-12/13

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

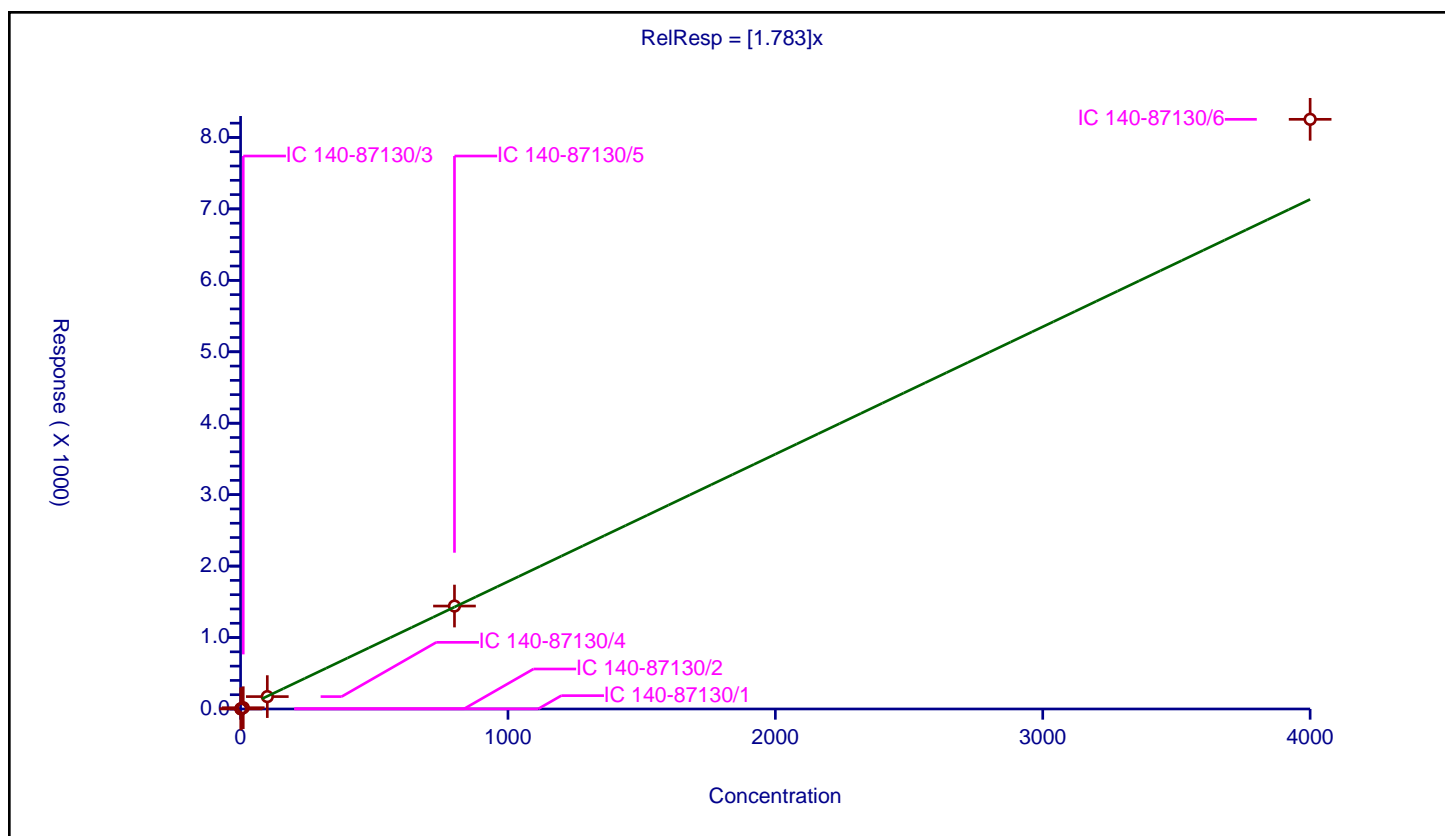
## Curve Coefficients

Intercept: 0  
 Slope: 1.783

## Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.645773	100.0	5904521.0	1.645773	Y
2	IC 140-87130/2	2.0	3.337329	100.0	5442766.0	1.668664	Y
3	IC 140-87130/3	10.0	17.87178	100.0	5279032.0	1.787178	Y
4	IC 140-87130/4	100.0	173.311548	100.0	5474214.0	1.733115	Y
5	IC 140-87130/5	800.0	1441.118879	100.0	5561618.0	1.801399	Y
6	IC 140-87130/6	4000.0	8253.622121	100.0	5672202.0	2.063406	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

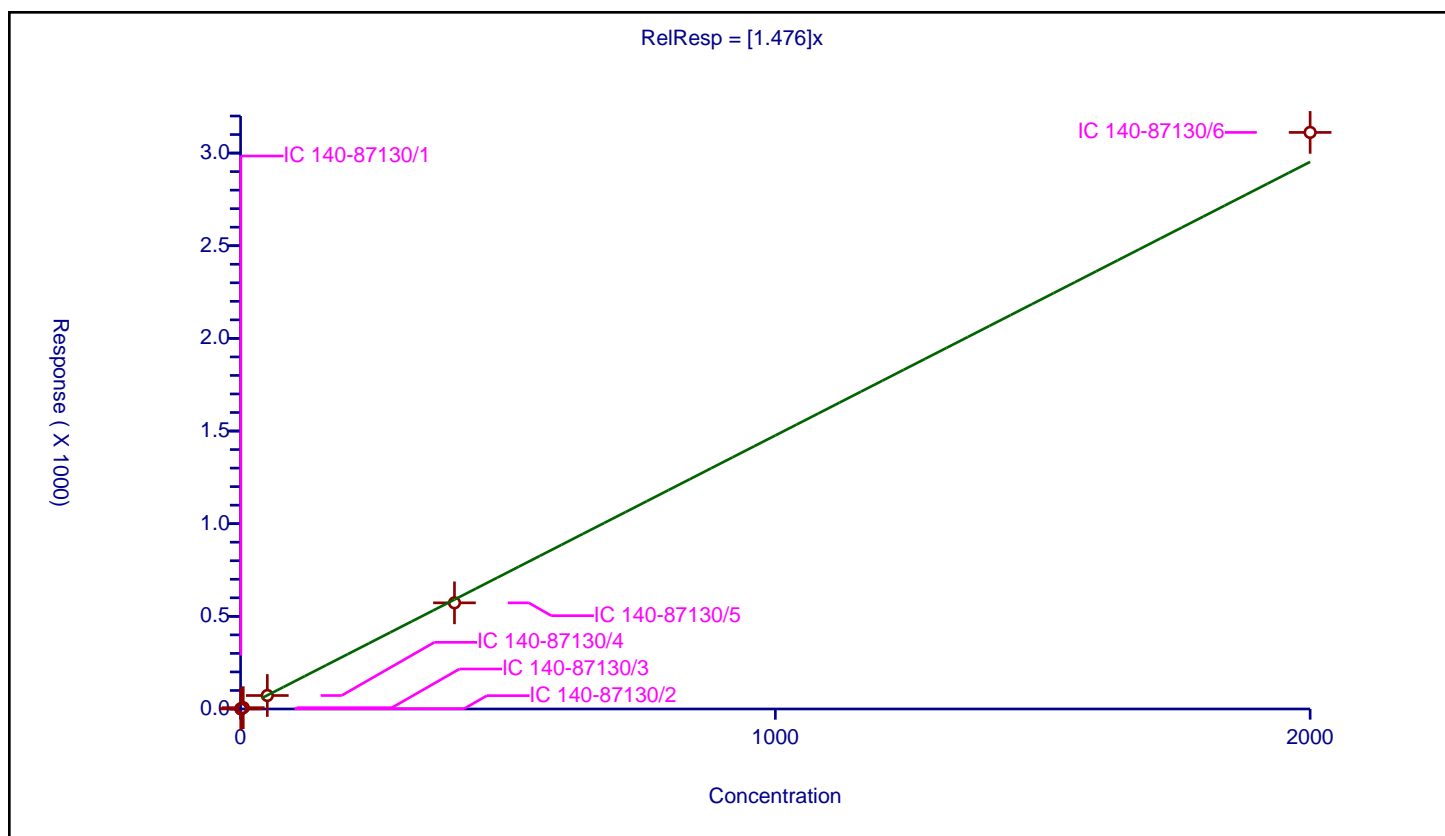
## Curve Coefficients

Intercept: 0  
Slope: 1.476

## Error Coefficients

Relative Standard Deviation: 3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.764782	100.0	6938320.0	1.529563	Y
2	IC 140-87130/2	1.0	1.468894	100.0	6240748.0	1.468894	Y
3	IC 140-87130/3	5.0	7.079066	100.0	6307301.0	1.415813	Y
4	IC 140-87130/4	50.0	72.764958	100.0	6455349.0	1.455299	Y
5	IC 140-87130/5	400.0	572.862857	100.0	6672003.0	1.432157	Y
6	IC 140-87130/6	2000.0	3111.506535	100.0	6975966.0	1.555753	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

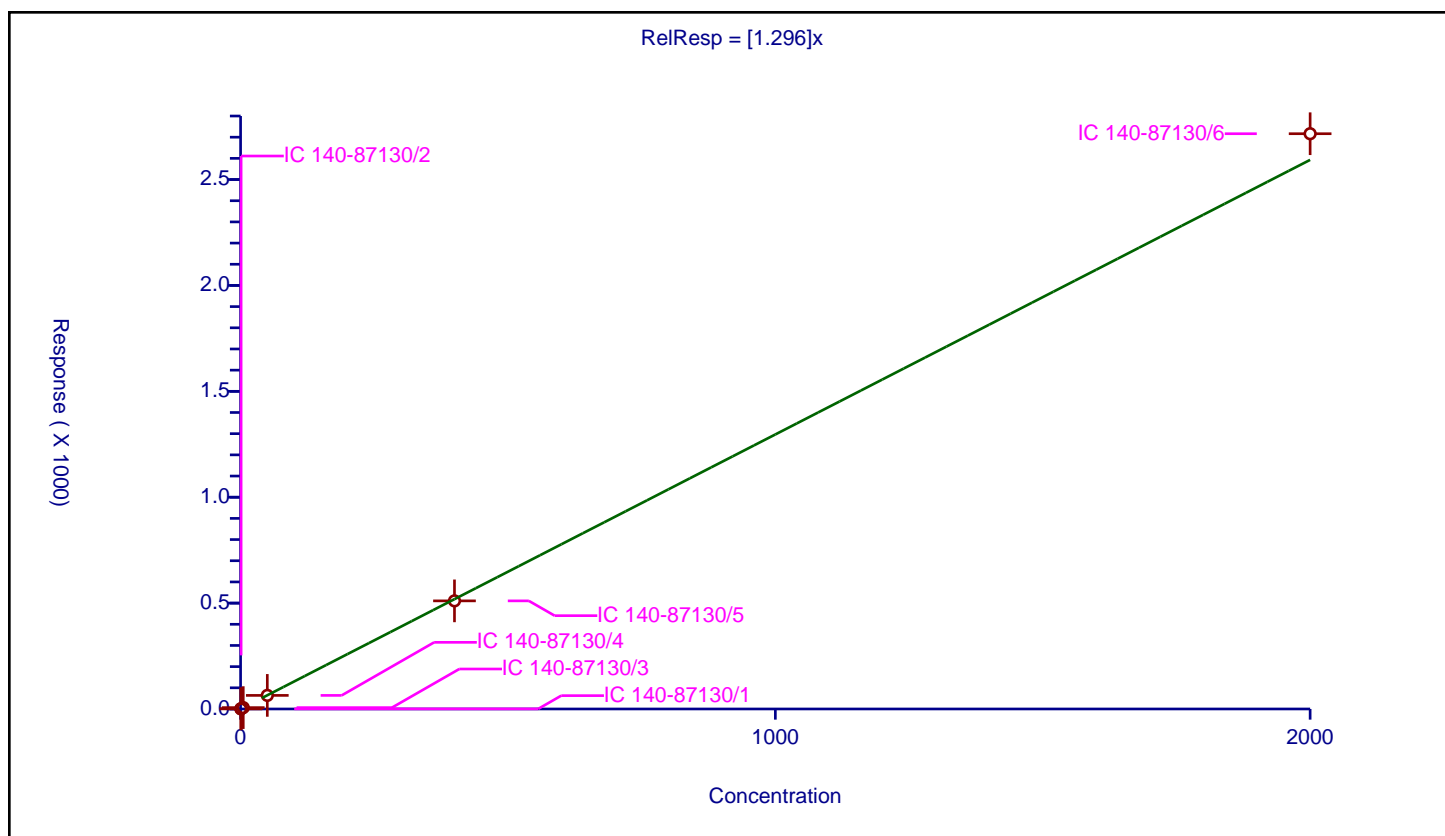
## Curve Coefficients

Intercept: 0  
Slope: 1.296

## Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.626074	100.0	6938320.0	1.252147	Y
2	IC 140-87130/2	1.0	1.317791	100.0	6240748.0	1.317791	Y
3	IC 140-87130/3	5.0	6.449113	100.0	6307301.0	1.289823	Y
4	IC 140-87130/4	50.0	64.202292	100.0	6455349.0	1.284046	Y
5	IC 140-87130/5	400.0	510.565253	100.0	6672003.0	1.276413	Y
6	IC 140-87130/6	2000.0	2716.396066	100.0	6975966.0	1.358198	Y



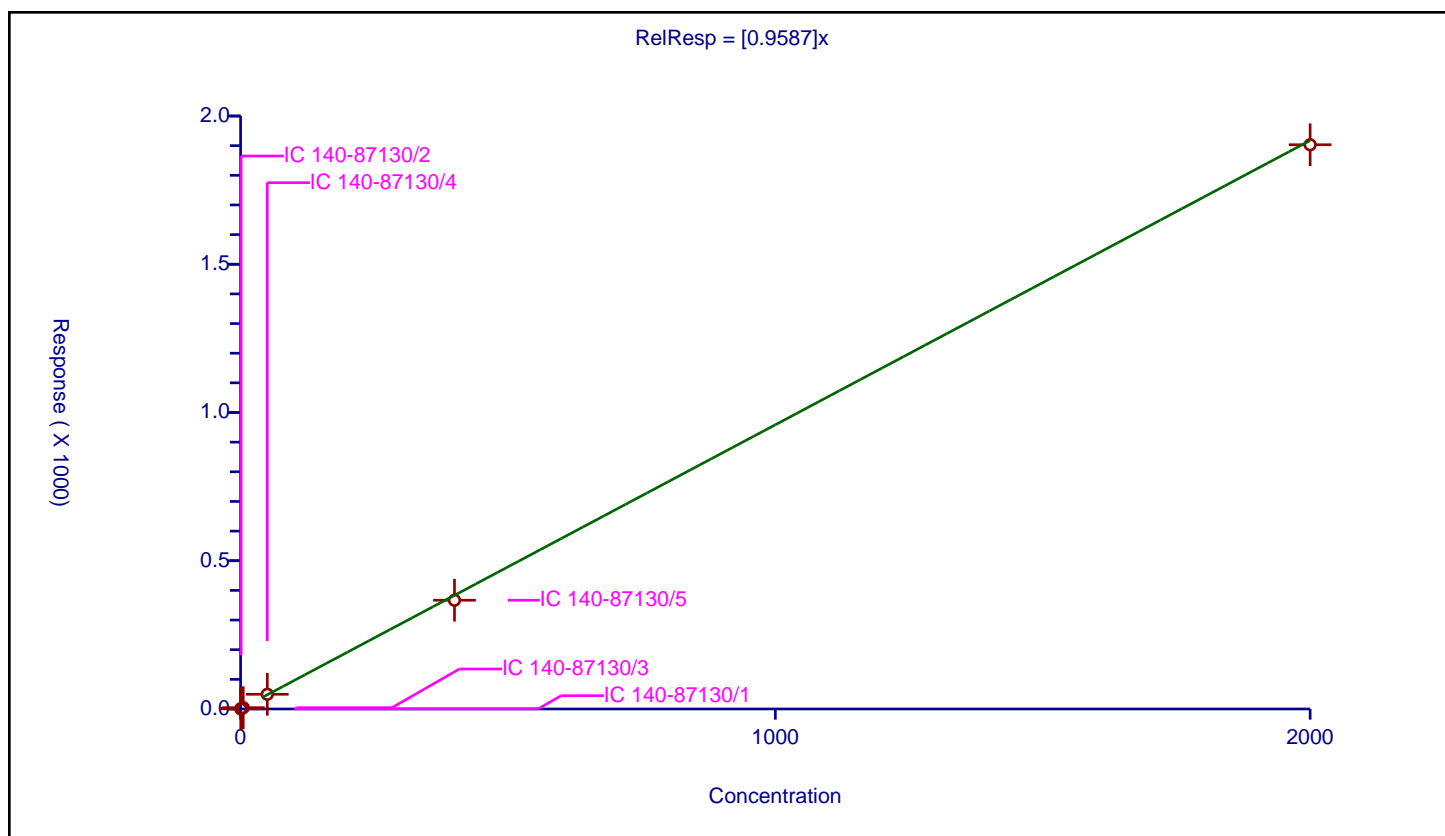
## / PCB-122

## Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.477126	100.0	10371480.0	0.954251	Y
2	IC 140-87130/2	1.0	1.043538	100.0	9073751.0	1.043538	Y
3	IC 140-87130/3	5.0	4.470647	100.0	9321962.0	0.894129	Y
4	IC 140-87130/4	50.0	49.566839	100.0	9501201.0	0.991337	Y
5	IC 140-87130/5	400.0	366.864546	100.0	10377703.0	0.917161	Y
6	IC 140-87130/6	2000.0	1903.10055	100.0	11406816.0	0.95155	Y



# Calibration

/ PCB-123

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

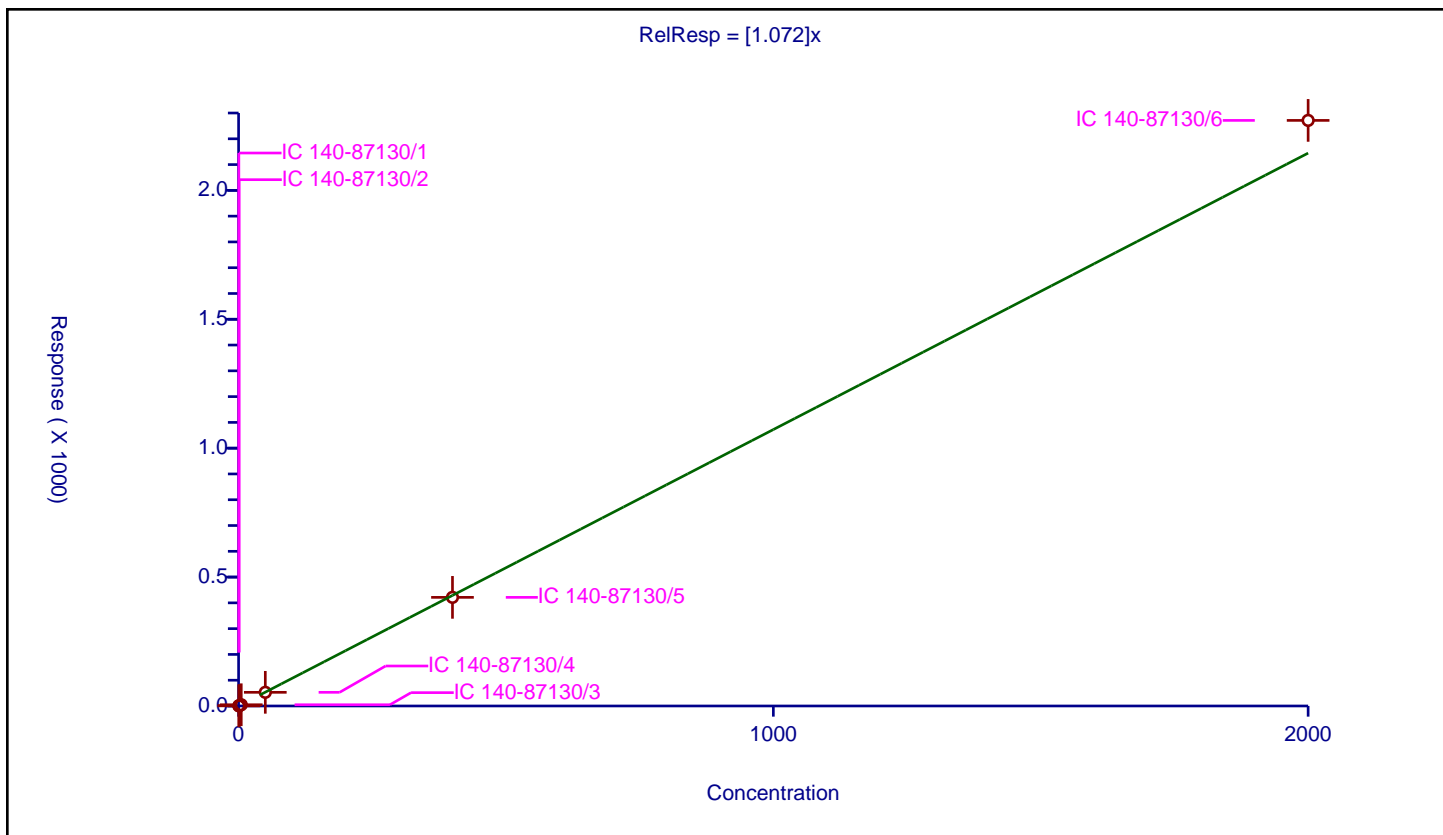
## Curve Coefficients

Intercept: 0  
 Slope: 1.072

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.542661	100.0	10371480.0	1.085322	Y
2	IC 140-87130/2	1.0	1.145469	100.0	9073751.0	1.145469	Y
3	IC 140-87130/3	5.0	4.769908	100.0	9321962.0	0.953982	Y
4	IC 140-87130/4	50.0	52.982691	100.0	9501201.0	1.059654	Y
5	IC 140-87130/5	400.0	421.35196	100.0	10377703.0	1.05338	Y
6	IC 140-87130/6	2000.0	2271.302132	100.0	11406816.0	1.135651	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

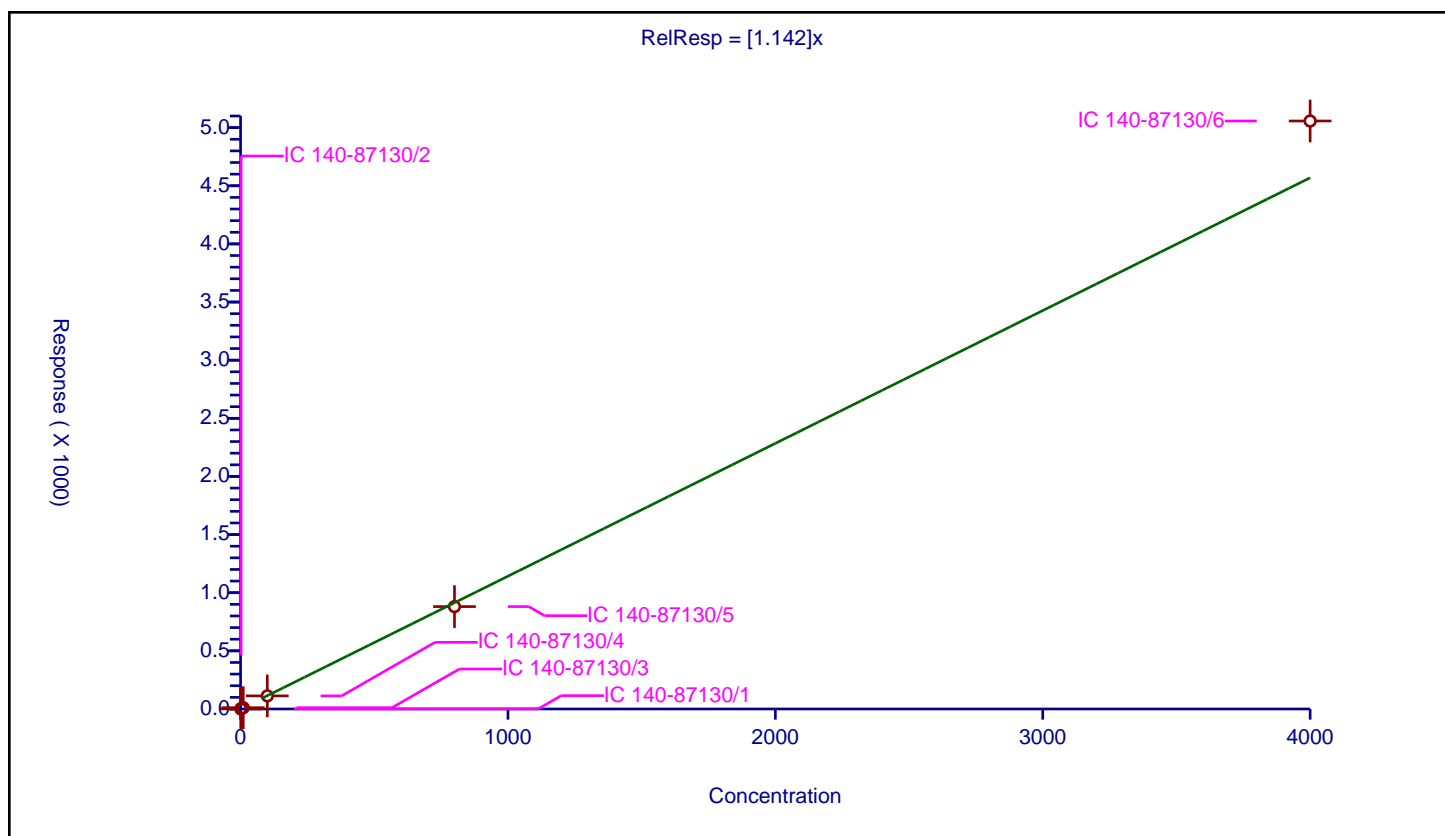
## Curve Coefficients

Intercept: 0  
Slope: 1.142

## Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.102851	100.0	10371480.0	1.102851	Y
2	IC 140-87130/2	2.0	2.298608	100.0	9073751.0	1.149304	Y
3	IC 140-87130/3	10.0	11.092751	100.0	9321962.0	1.109275	Y
4	IC 140-87130/4	100.0	112.681302	100.0	9501201.0	1.126813	Y
5	IC 140-87130/5	800.0	880.500569	100.0	10377703.0	1.100626	Y
6	IC 140-87130/6	4000.0	5057.136698	100.0	11406816.0	1.264284	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

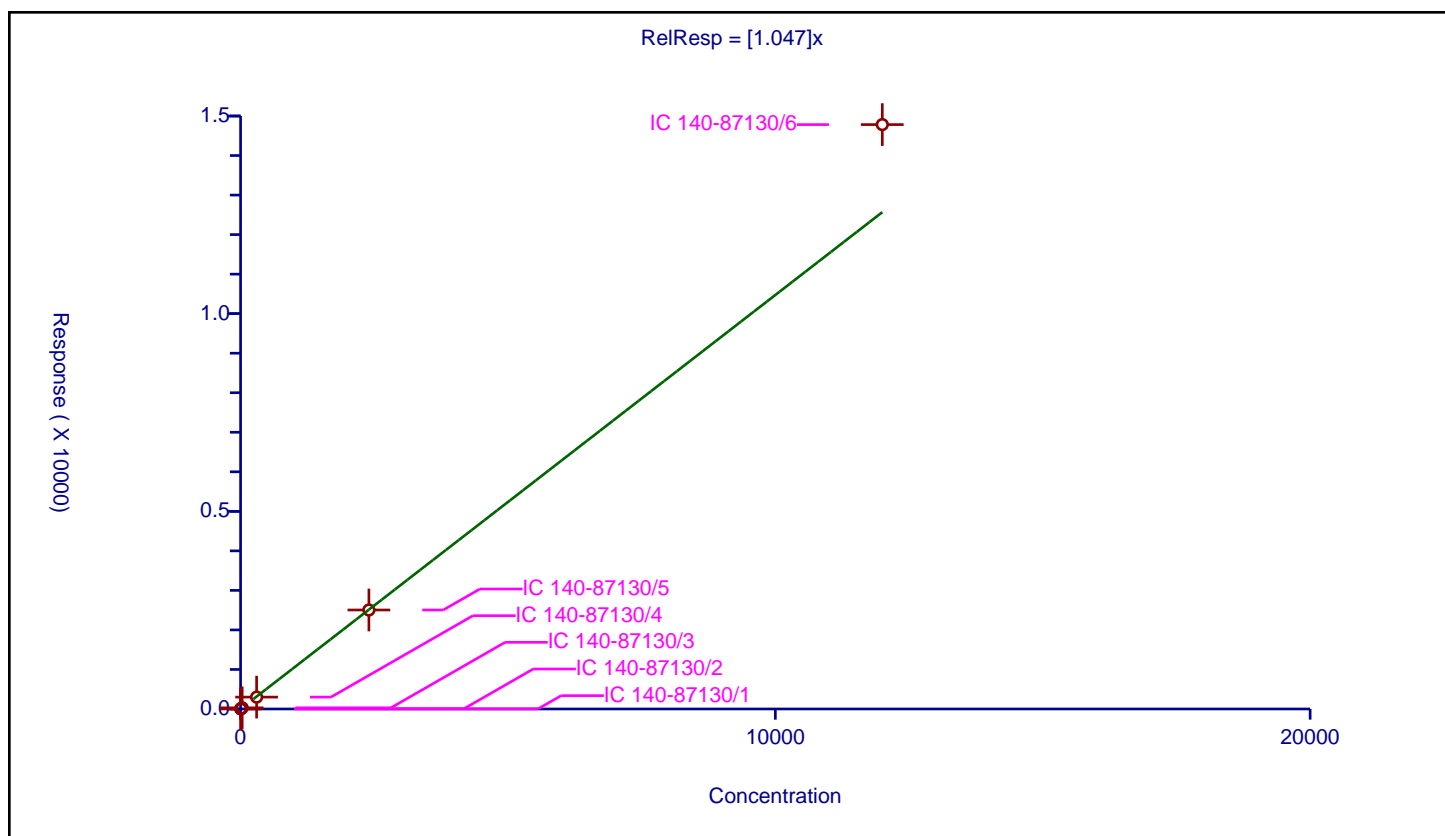
## Curve Coefficients

Intercept: 0  
Slope: 1.047

## Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

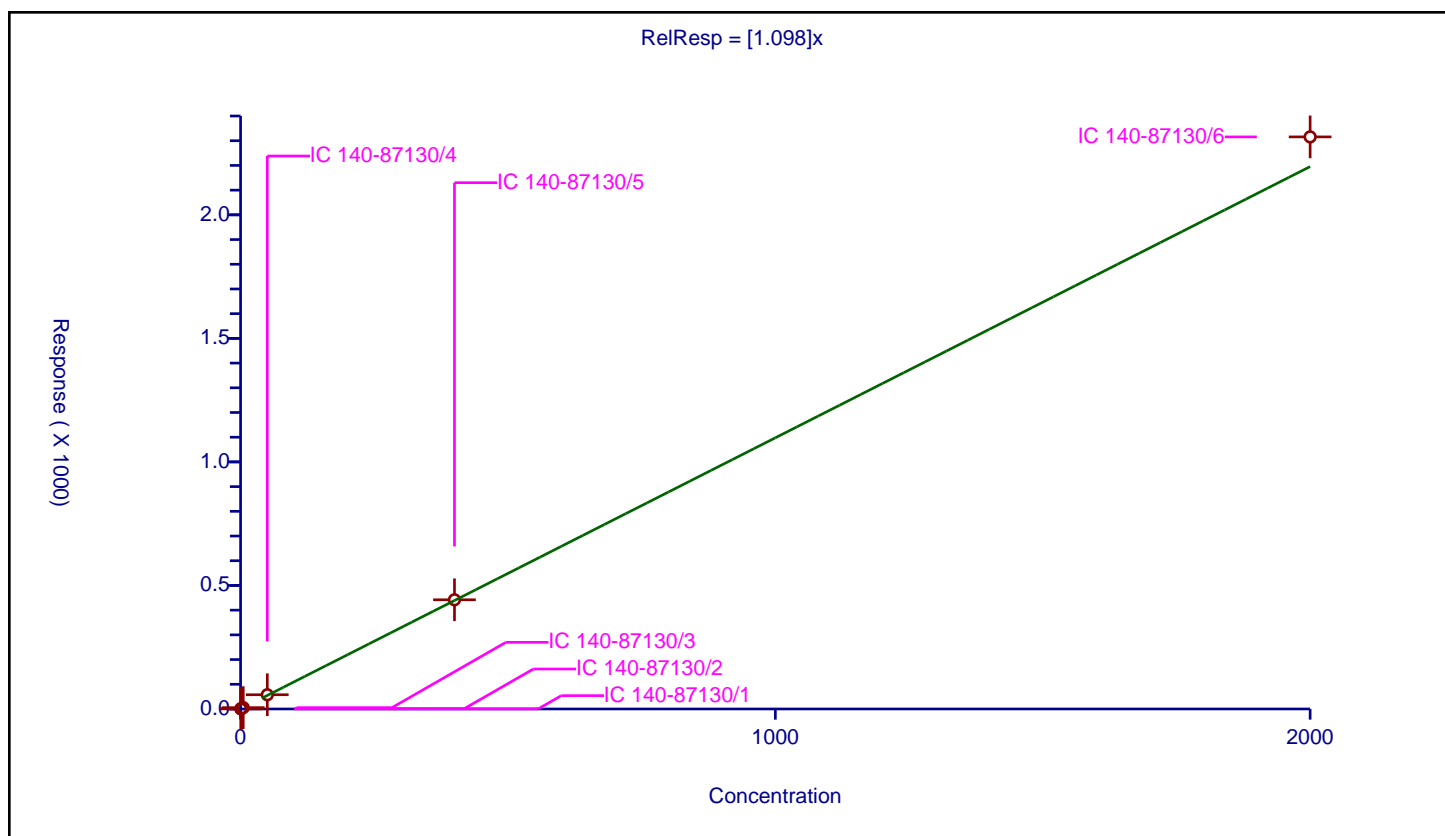
## Curve Coefficients

Intercept: 0  
Slope: 1.098

## Error Coefficients

Relative Standard Deviation: 5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.497752	100.0	9958778.0	0.995504	Y
2	IC 140-87130/2	1.0	1.094031	100.0	8756063.0	1.094031	Y
3	IC 140-87130/3	5.0	5.401953	100.0	8945635.0	1.080391	Y
4	IC 140-87130/4	50.0	57.642157	100.0	9388684.0	1.152843	Y
5	IC 140-87130/5	400.0	442.04375	100.0	10103302.0	1.105109	Y
6	IC 140-87130/6	2000.0	2315.466548	100.0	11098540.0	1.157733	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

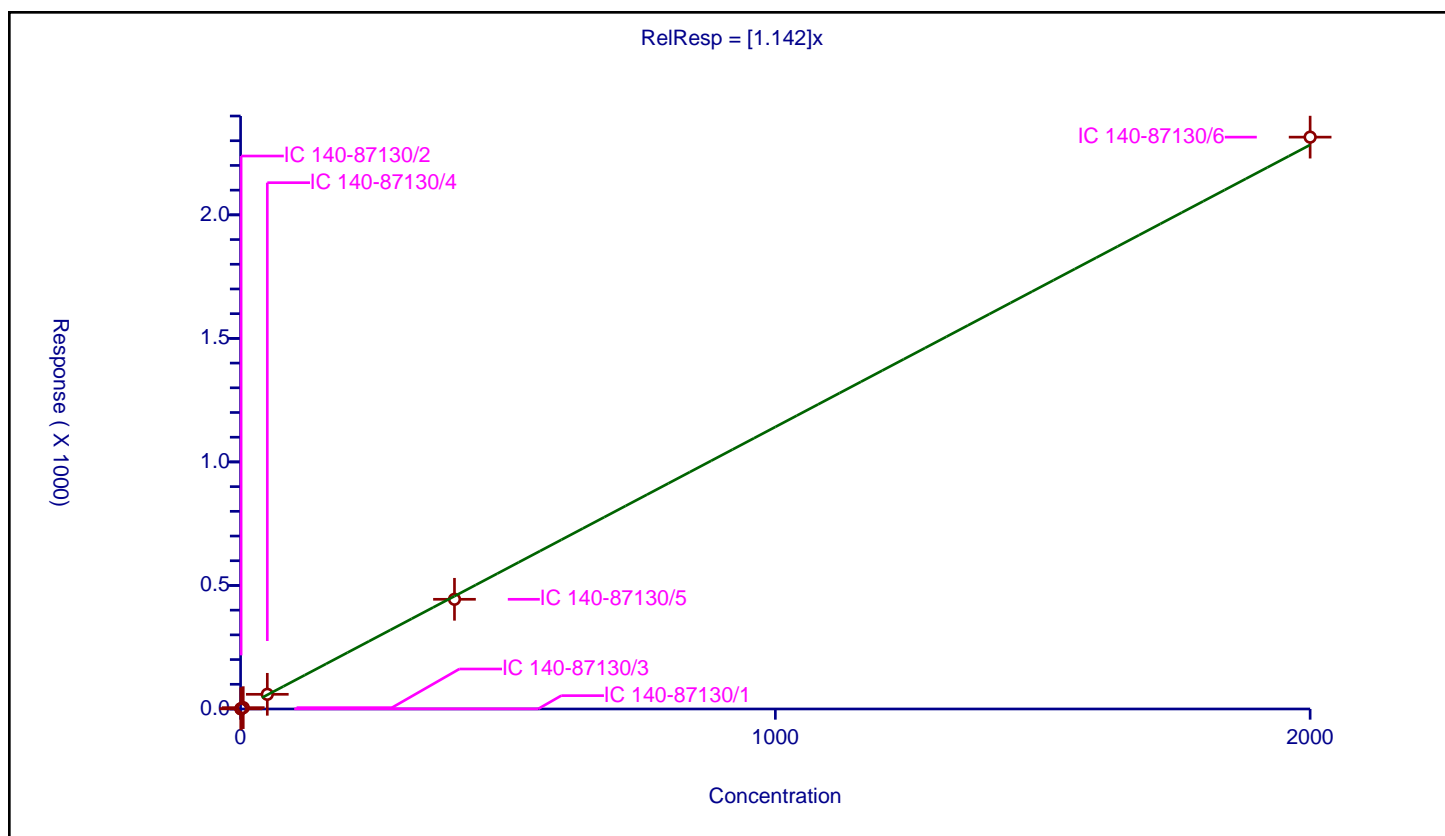
## Curve Coefficients

Intercept: 0  
Slope: 1.142

## Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.554569	100.0	10371480.0	1.109138	Y
2	IC 140-87130/2	1.0	1.199857	100.0	9073751.0	1.199857	Y
3	IC 140-87130/3	5.0	5.427334	100.0	9321962.0	1.085467	Y
4	IC 140-87130/4	50.0	59.390029	100.0	9501201.0	1.187801	Y
5	IC 140-87130/5	400.0	443.991517	100.0	10377703.0	1.109979	Y
6	IC 140-87130/6	2000.0	2314.503206	100.0	11406816.0	1.157252	Y



# Calibration

/ PCB-128

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

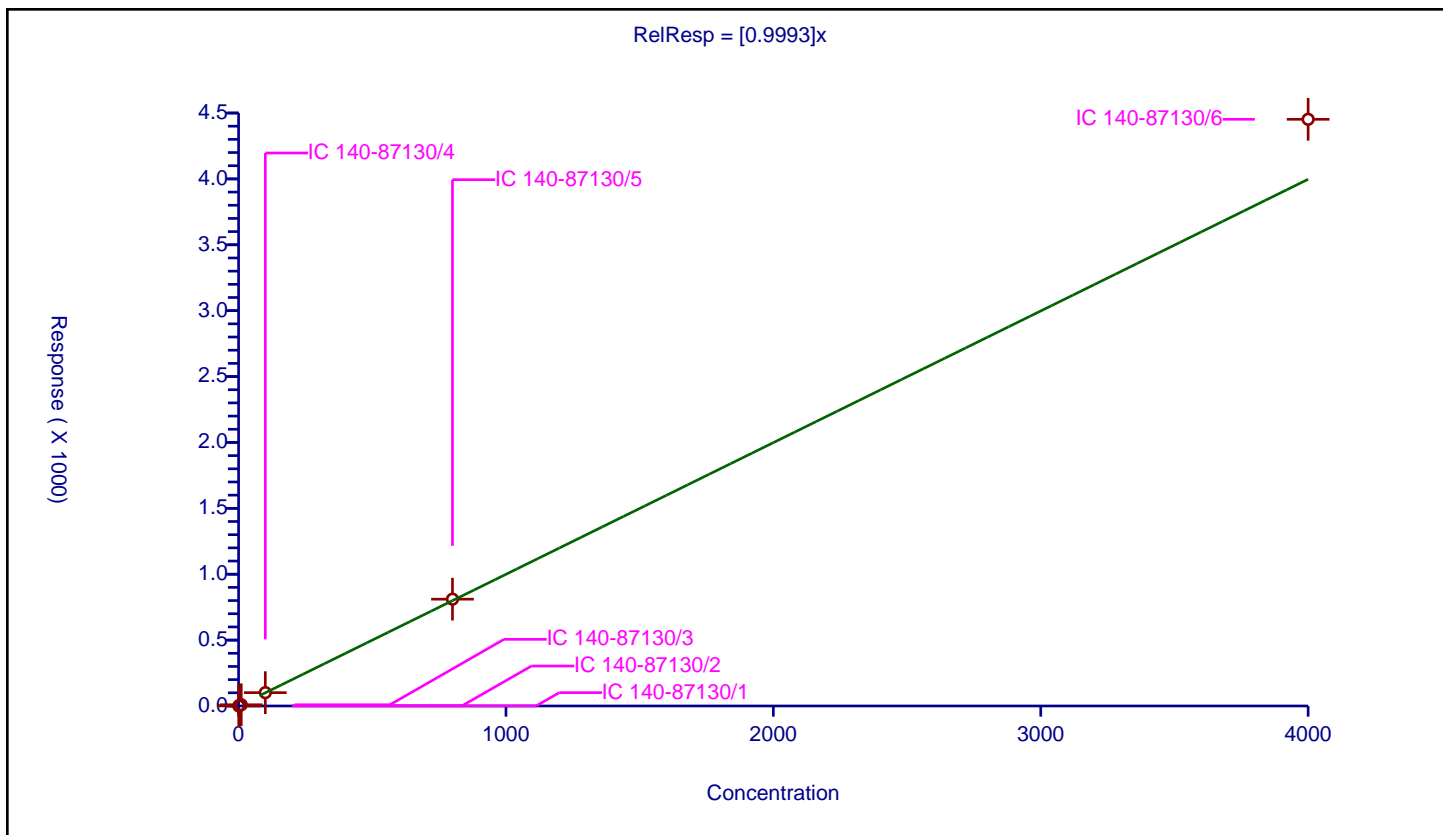
## Curve Coefficients

Intercept: 0  
 Slope: 0.9993

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.978717	200.0	17145311.0	0.978717	Y
2	IC 140-87130/2	2.0	1.885788	200.0	16075823.0	0.942894	Y
3	IC 140-87130/3	10.0	9.351869	200.0	15994835.0	0.935187	Y
4	IC 140-87130/4	100.0	101.248978	200.0	16048883.0	1.01249	Y
5	IC 140-87130/5	800.0	810.572802	200.0	16797326.0	1.013216	Y
6	IC 140-87130/6	4000.0	4452.331241	200.0	18003846.0	1.113083	Y



# Calibration

/ PCB-128/166

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

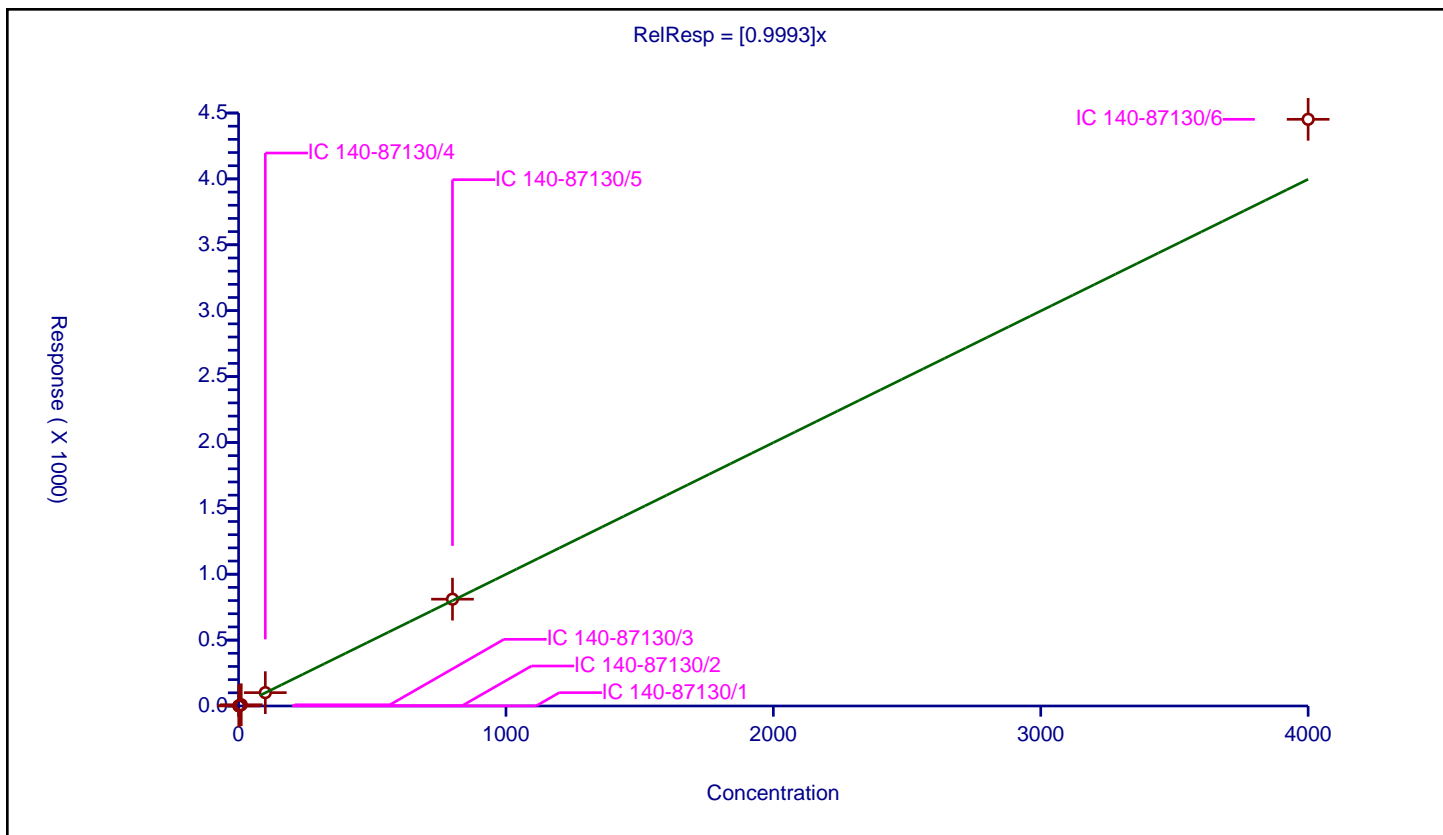
## Curve Coefficients

Intercept: 0  
 Slope: 0.9993

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.978717	200.0	17145311.0	0.978717	Y
2	IC 140-87130/2	2.0	1.885788	200.0	16075823.0	0.942894	Y
3	IC 140-87130/3	10.0	9.351869	200.0	15994835.0	0.935187	Y
4	IC 140-87130/4	100.0	101.248978	200.0	16048883.0	1.01249	Y
5	IC 140-87130/5	800.0	810.572802	200.0	16797326.0	1.013216	Y
6	IC 140-87130/6	4000.0	4452.331241	200.0	18003846.0	1.113083	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

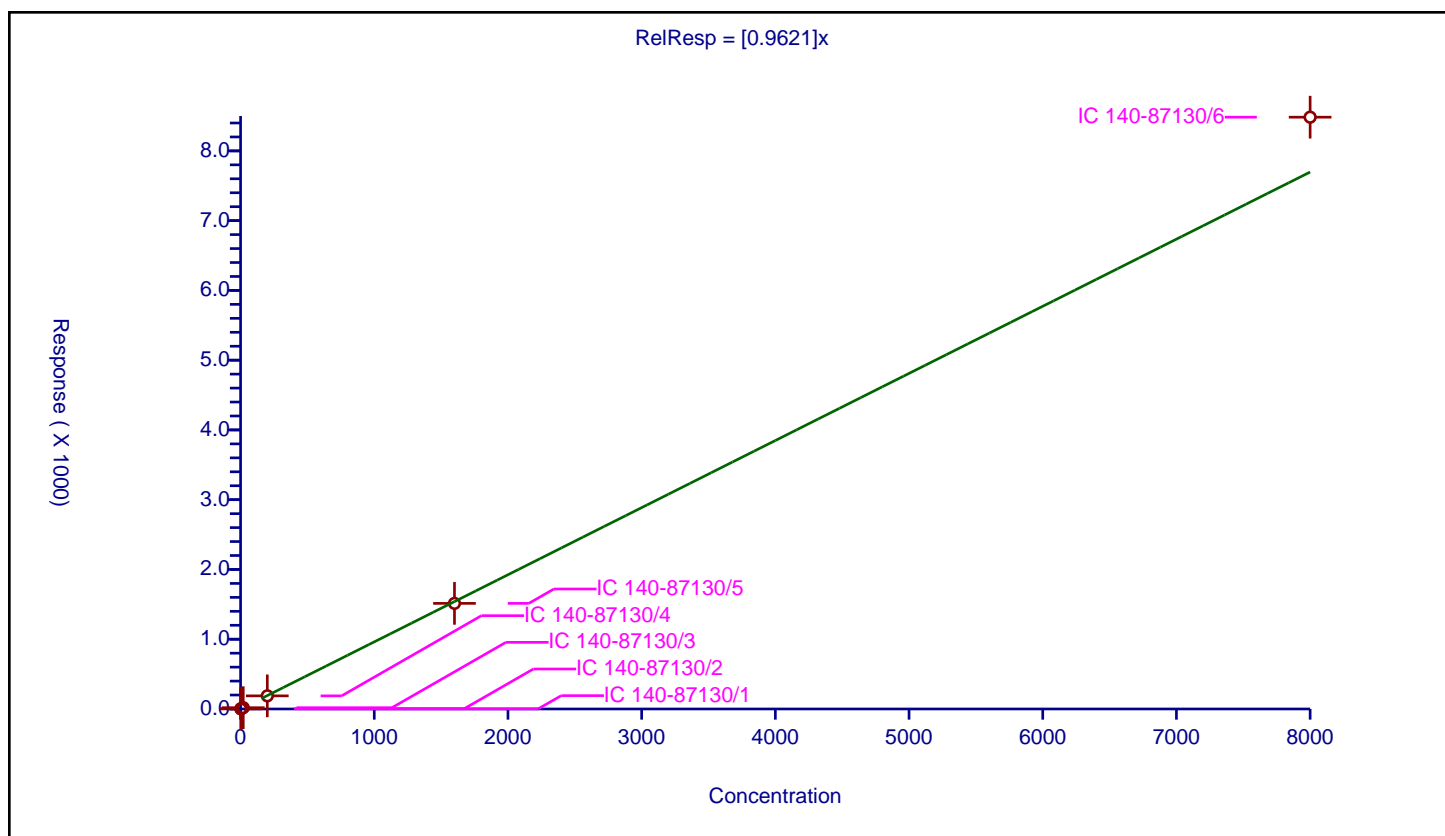
## Curve Coefficients

Intercept: 0  
Slope: 0.9621

## Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



# Calibration

/ PCB-129/138/160/163

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

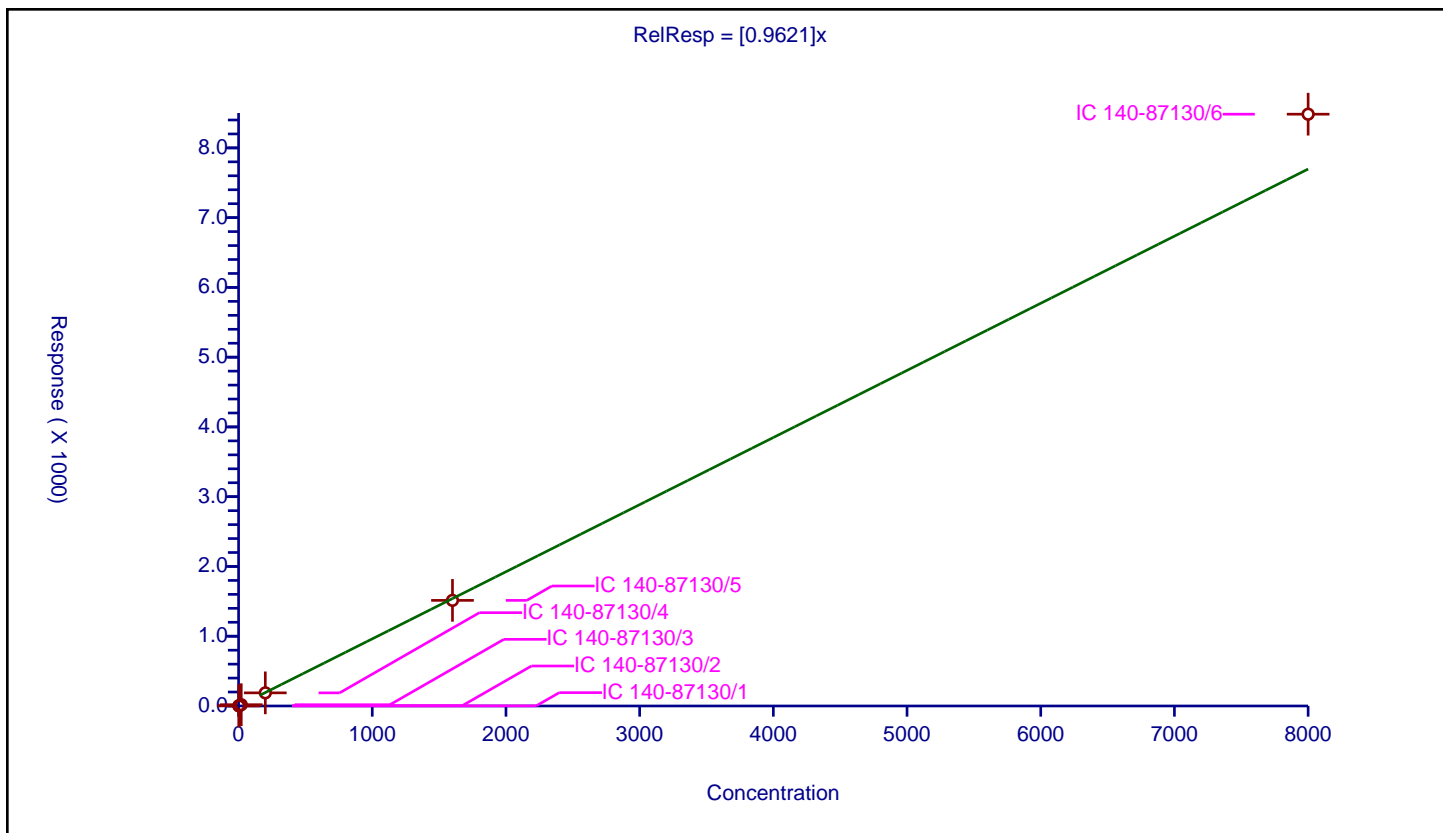
## Curve Coefficients

Intercept: 0  
 Slope: 0.9621

## Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

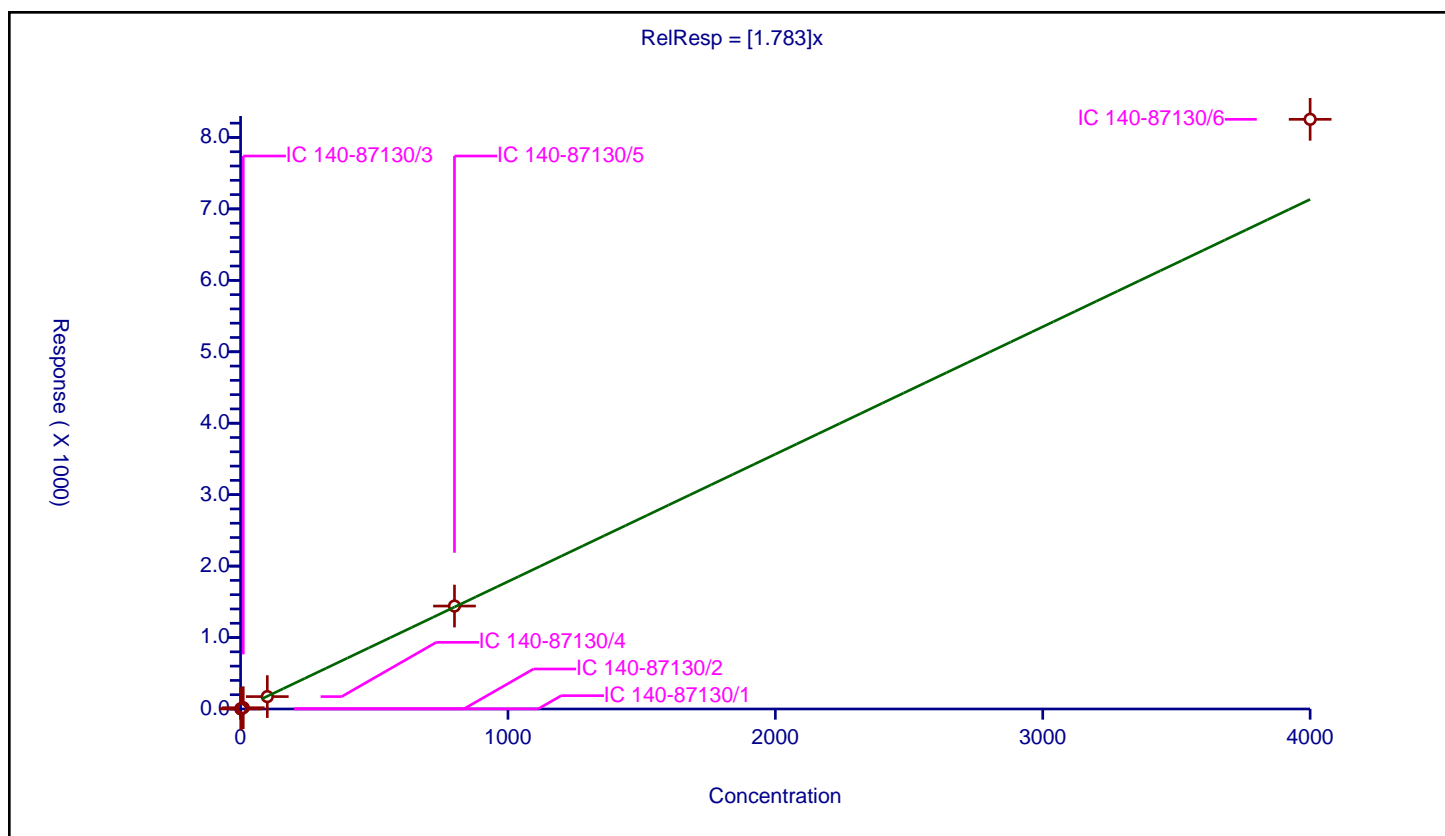
## Curve Coefficients

Intercept: 0  
Slope: 1.783

## Error Coefficients

Relative Standard Deviation: 8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.645773	100.0	5904521.0	1.645773	Y
2	IC 140-87130/2	2.0	3.337329	100.0	5442766.0	1.668664	Y
3	IC 140-87130/3	10.0	17.87178	100.0	5279032.0	1.787178	Y
4	IC 140-87130/4	100.0	173.311548	100.0	5474214.0	1.733115	Y
5	IC 140-87130/5	800.0	1441.118879	100.0	5561618.0	1.801399	Y
6	IC 140-87130/6	4000.0	8253.622121	100.0	5672202.0	2.063406	Y



## Calibration

/ PCB-130

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

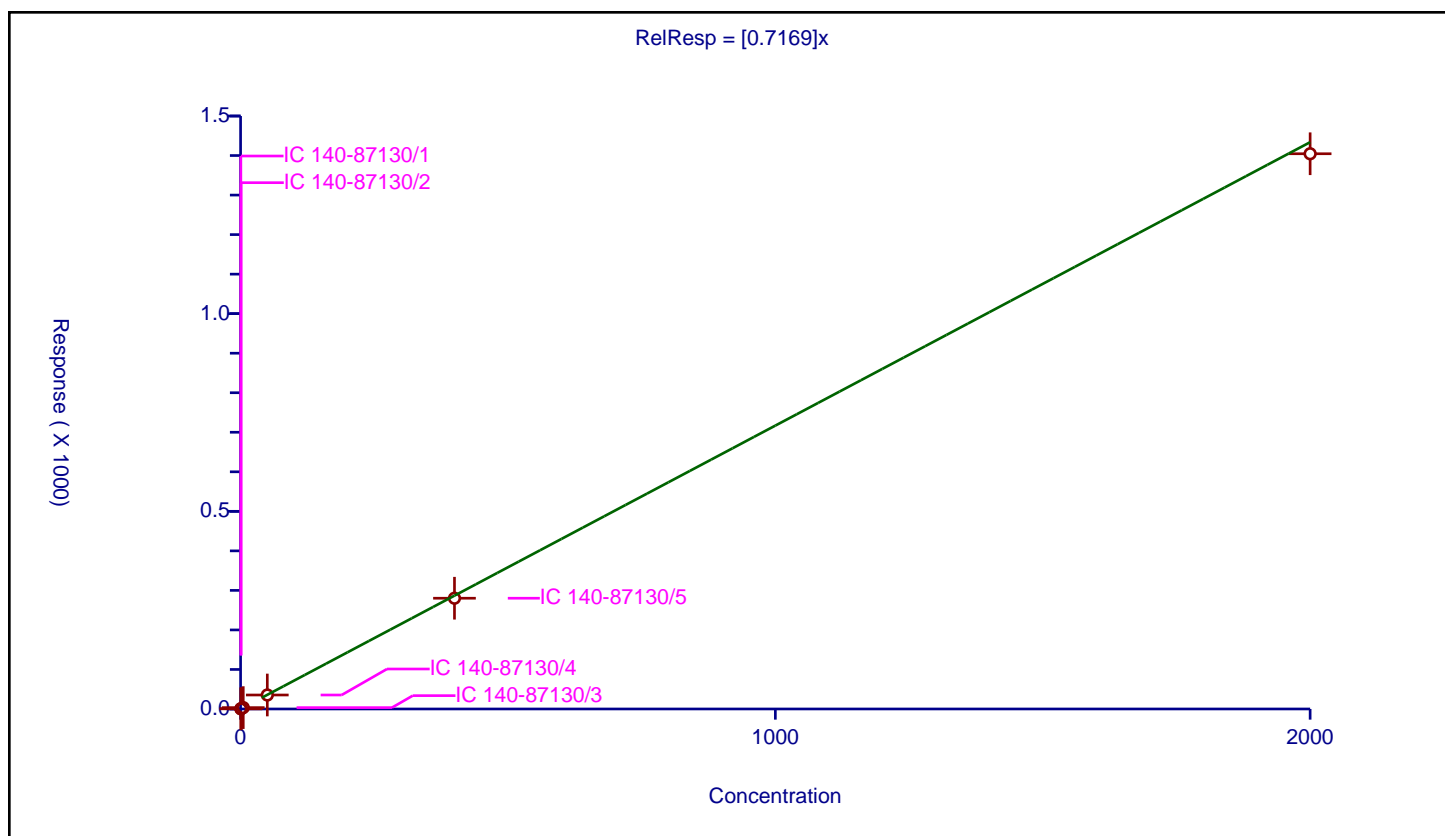
## Curve Coefficients

Intercept: 0  
Slope: 0.7169

## Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.374983	200.0	17145311.0	0.749966	Y
2	IC 140-87130/2	1.0	0.742768	200.0	16075823.0	0.742768	Y
3	IC 140-87130/3	5.0	3.49154	200.0	15994835.0	0.698308	Y
4	IC 140-87130/4	50.0	35.374985	200.0	16048883.0	0.7075	Y
5	IC 140-87130/5	400.0	280.165569	200.0	16797326.0	0.700414	Y
6	IC 140-87130/6	2000.0	1404.539452	200.0	18003846.0	0.70227	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

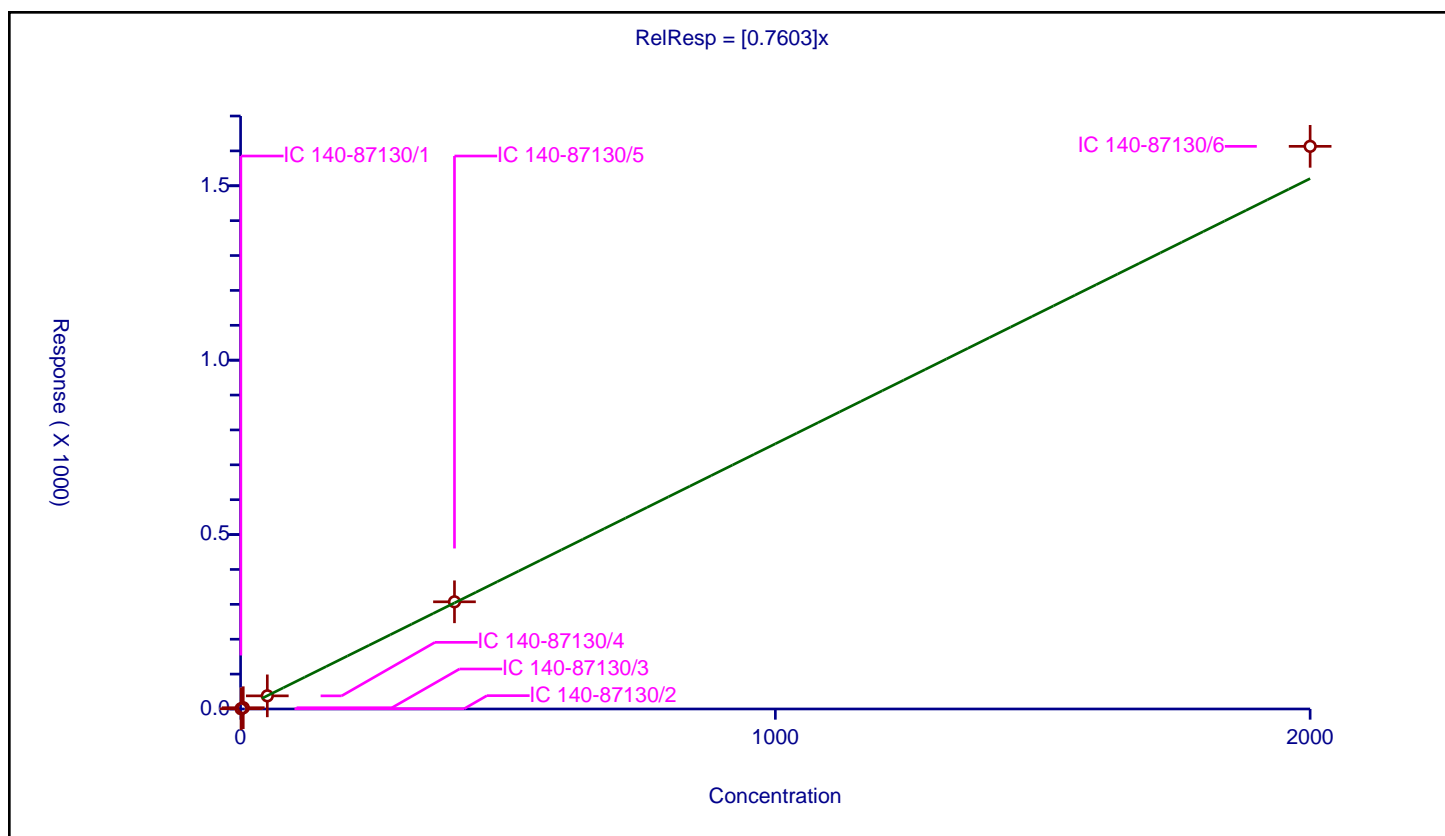
## Curve Coefficients

Intercept: 0  
Slope: 0.7603

## Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.495879	200.0	17145311.0	0.991758	N
2	IC 140-87130/2	1.0	0.750033	200.0	16075823.0	0.750033	Y
3	IC 140-87130/3	5.0	3.621982	200.0	15994835.0	0.724396	Y
4	IC 140-87130/4	50.0	37.621659	200.0	16048883.0	0.752433	Y
5	IC 140-87130/5	400.0	307.270824	200.0	16797326.0	0.768177	Y
6	IC 140-87130/6	2000.0	1613.043169	200.0	18003846.0	0.806522	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

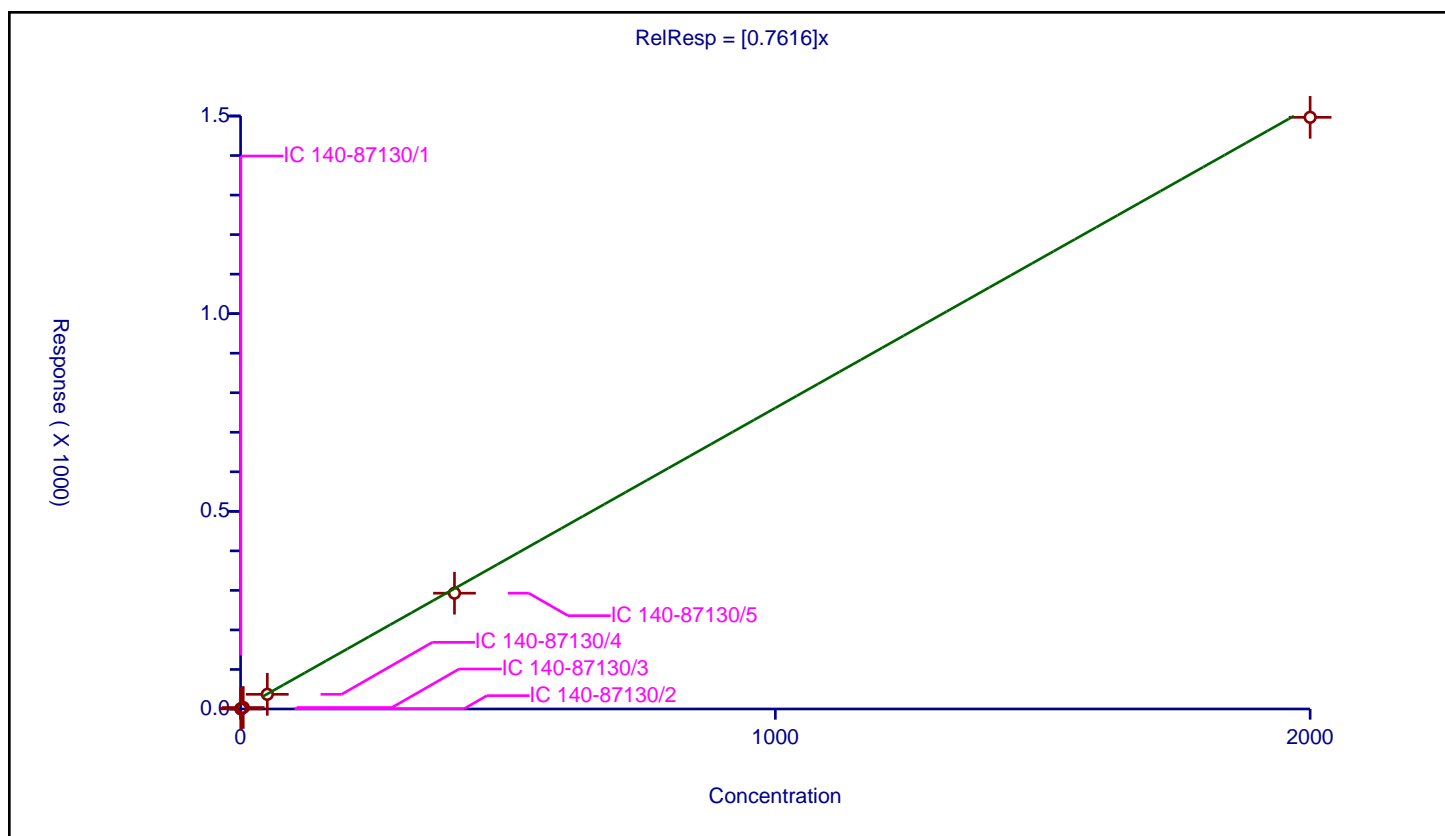
## Curve Coefficients

Intercept: 0  
Slope: 0.7616

## Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.426916	200.0	17145311.0	0.853831	Y
2	IC 140-87130/2	1.0	0.740528	200.0	16075823.0	0.740528	Y
3	IC 140-87130/3	5.0	3.758438	200.0	15994835.0	0.751688	Y
4	IC 140-87130/4	50.0	37.126459	200.0	16048883.0	0.742529	Y
5	IC 140-87130/5	400.0	292.951104	200.0	16797326.0	0.732378	Y
6	IC 140-87130/6	2000.0	1496.707792	200.0	18003846.0	0.748354	Y



# Calibration

/ PCB-133

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

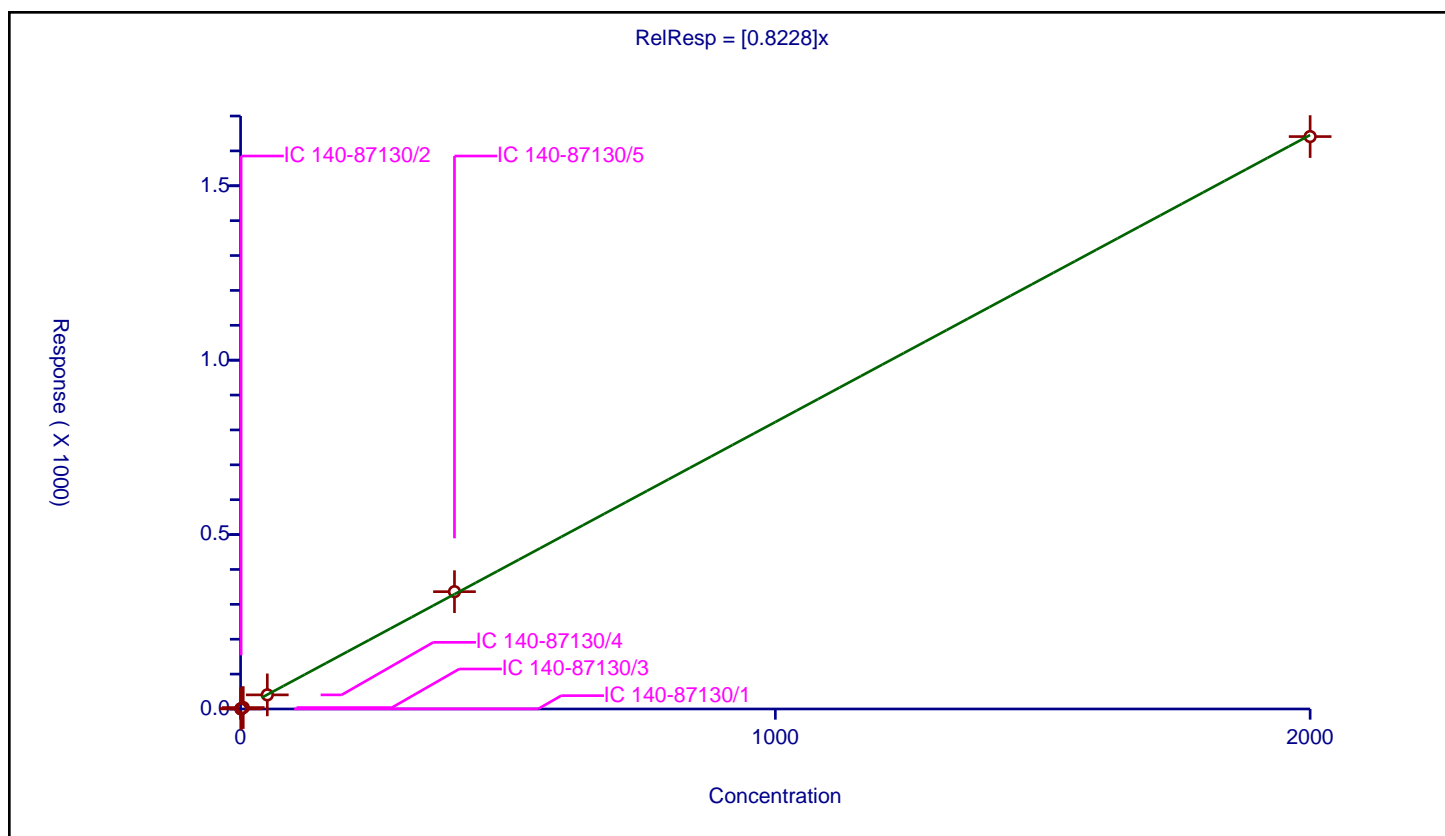
## Curve Coefficients

Intercept: 0  
 Slope: 0.8228

## Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.377678	200.0	17145311.0	0.755355	Y
2	IC 140-87130/2	1.0	0.890231	200.0	16075823.0	0.890231	Y
3	IC 140-87130/3	5.0	4.102987	200.0	15994835.0	0.820597	Y
4	IC 140-87130/4	50.0	40.451314	200.0	16048883.0	0.809026	Y
5	IC 140-87130/5	400.0	336.328449	200.0	16797326.0	0.840821	Y
6	IC 140-87130/6	2000.0	1641.094064	200.0	18003846.0	0.820547	Y



## Calibration

/ PCB-134

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

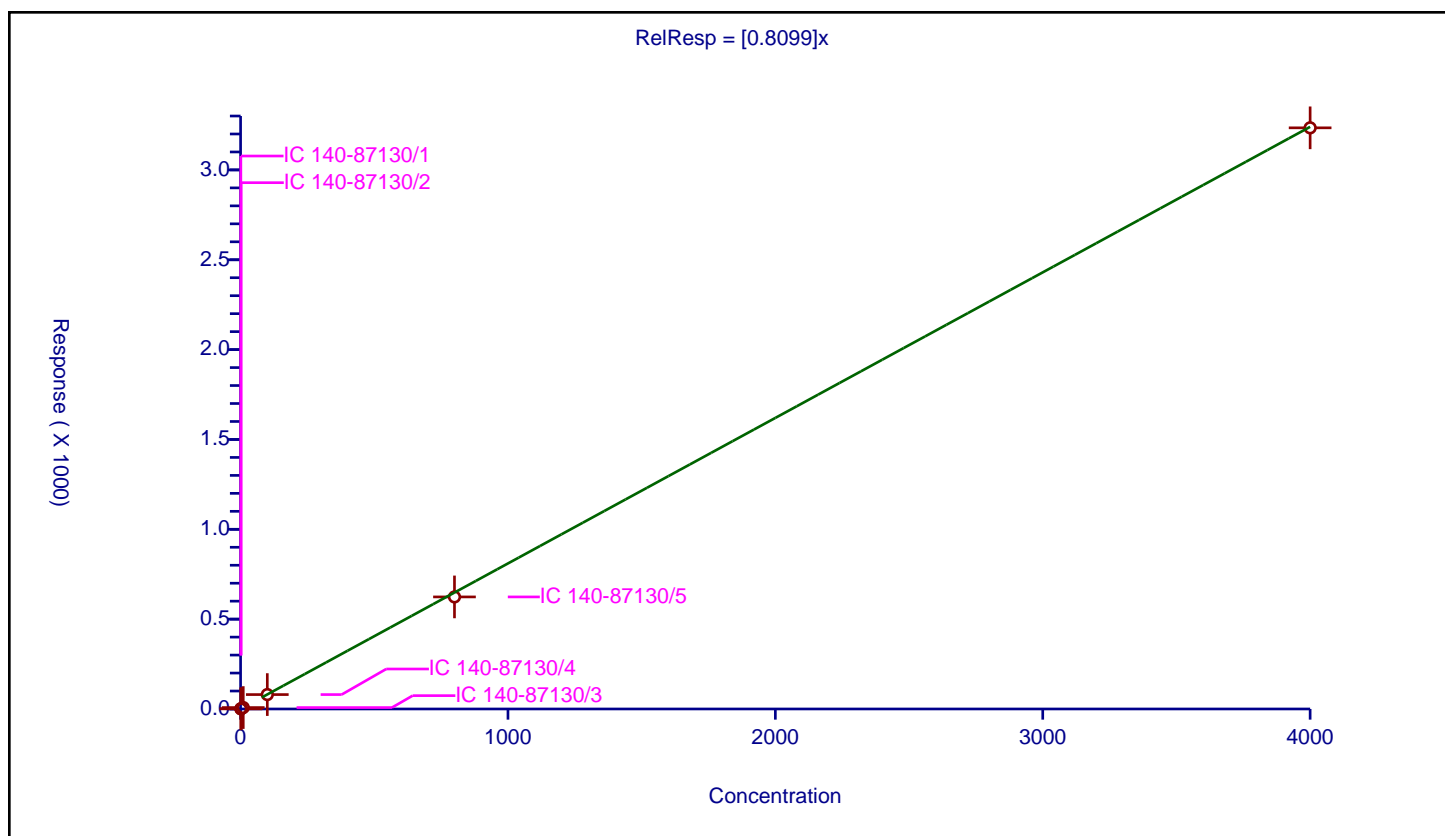
## Curve Coefficients

Intercept: 0  
Slope: 0.8099

## Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.853761	200.0	17145311.0	0.853761	Y
2	IC 140-87130/2	2.0	1.628296	200.0	16075823.0	0.814148	Y
3	IC 140-87130/3	10.0	8.010286	200.0	15994835.0	0.801029	Y
4	IC 140-87130/4	100.0	80.260988	200.0	16048883.0	0.80261	Y
5	IC 140-87130/5	800.0	623.646919	200.0	16797326.0	0.779559	Y
6	IC 140-87130/6	4000.0	3234.214523	200.0	18003846.0	0.808554	Y



# Calibration

/ PCB-134/143

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

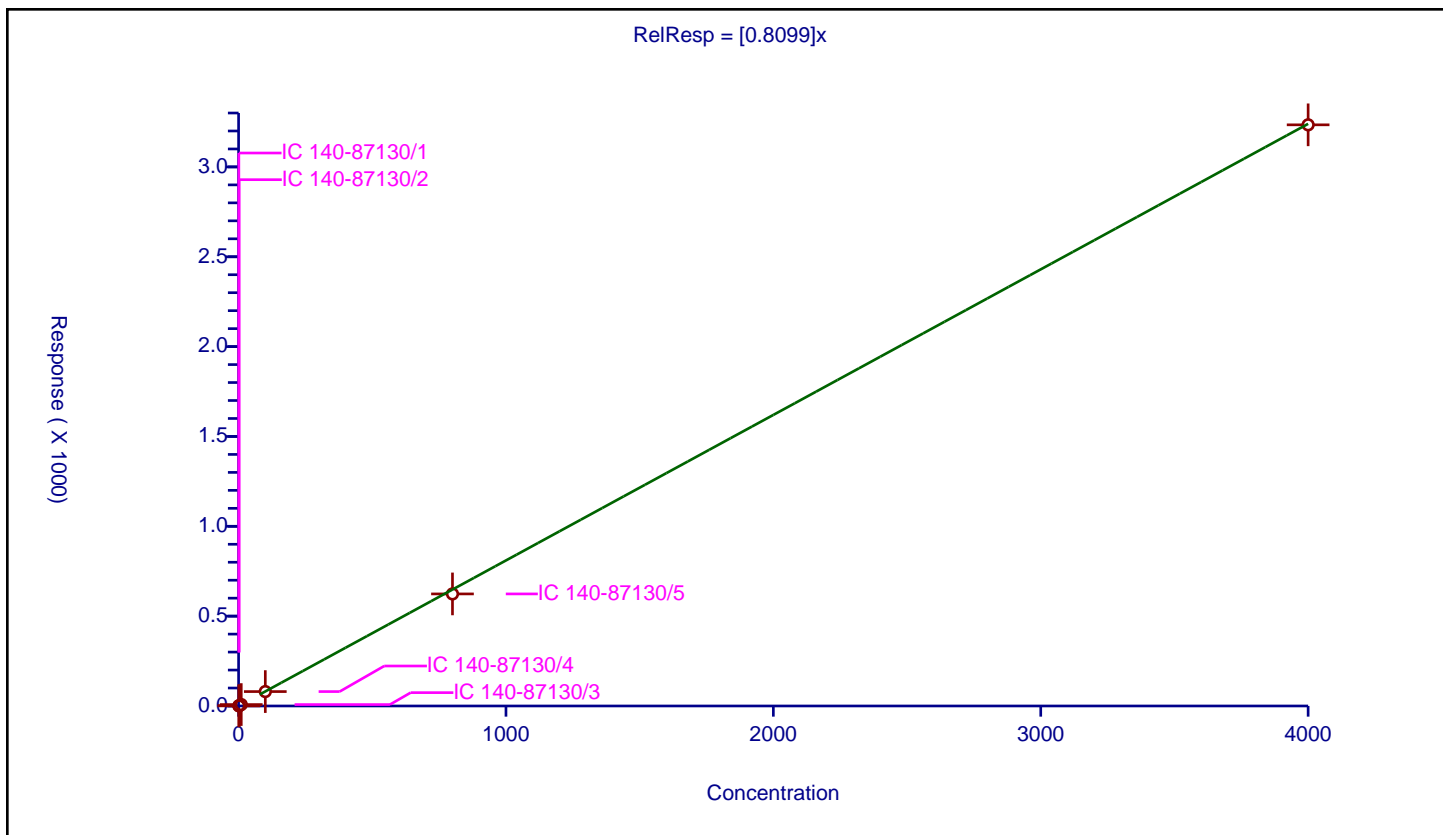
## Curve Coefficients

Intercept: 0  
 Slope: 0.8099

## Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.853761	200.0	17145311.0	0.853761	Y
2	IC 140-87130/2	2.0	1.628296	200.0	16075823.0	0.814148	Y
3	IC 140-87130/3	10.0	8.010286	200.0	15994835.0	0.801029	Y
4	IC 140-87130/4	100.0	80.260988	200.0	16048883.0	0.80261	Y
5	IC 140-87130/5	800.0	623.646919	200.0	16797326.0	0.779559	Y
6	IC 140-87130/6	4000.0	3234.214523	200.0	18003846.0	0.808554	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

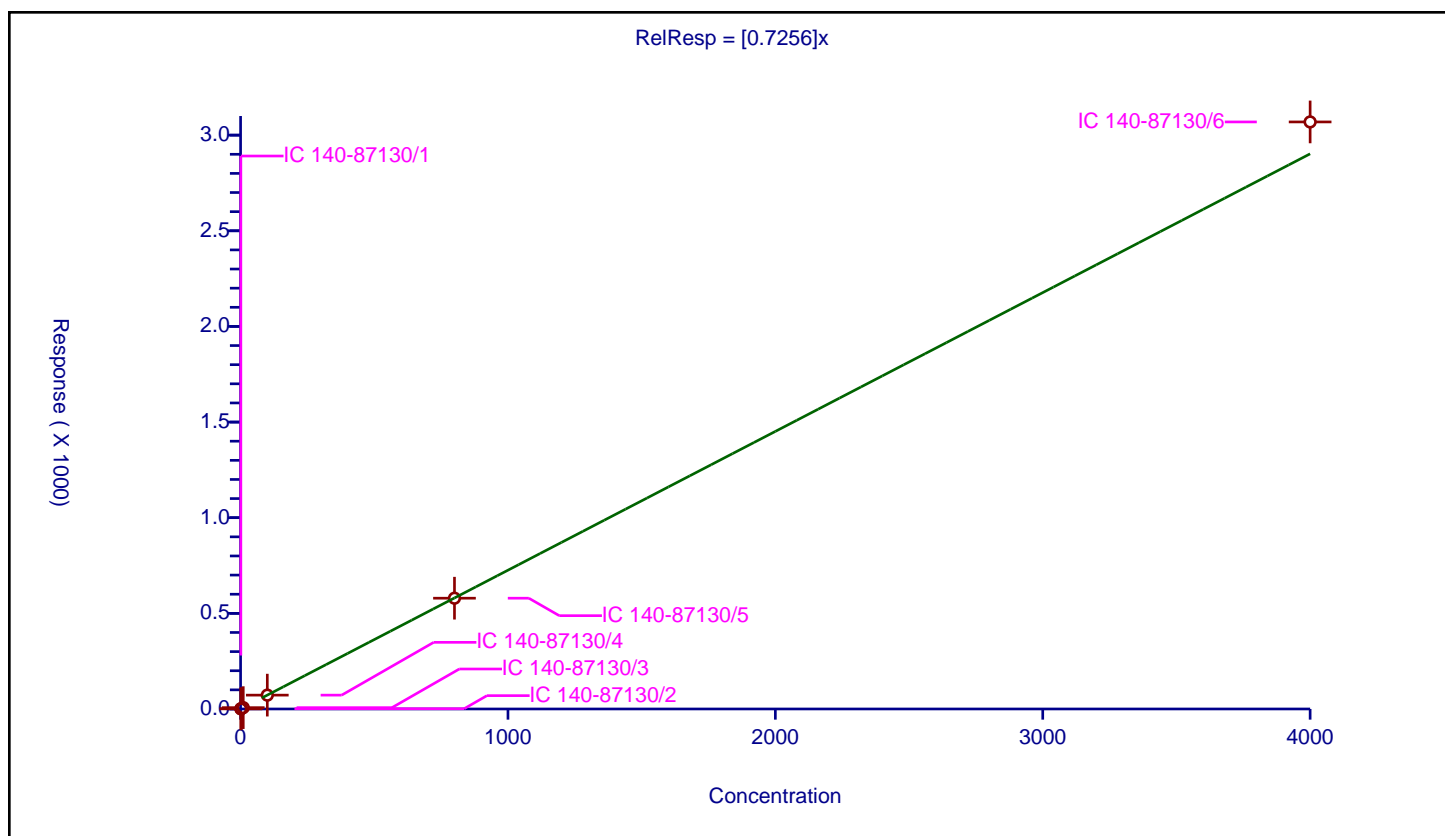
## Curve Coefficients

Intercept: 0  
Slope: 0.7256

## Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.728518	100.0	6307321.0	0.728518	Y
2	IC 140-87130/2	2.0	1.405889	100.0	5566942.0	0.702944	Y
3	IC 140-87130/3	10.0	7.063016	100.0	5708638.0	0.706302	Y
4	IC 140-87130/4	100.0	72.442307	100.0	5786925.0	0.724423	Y
5	IC 140-87130/5	800.0	579.168111	100.0	5892178.0	0.72396	Y
6	IC 140-87130/6	4000.0	3068.99001	100.0	6037909.0	0.767248	Y



# Calibration

/ PCB-135/151

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

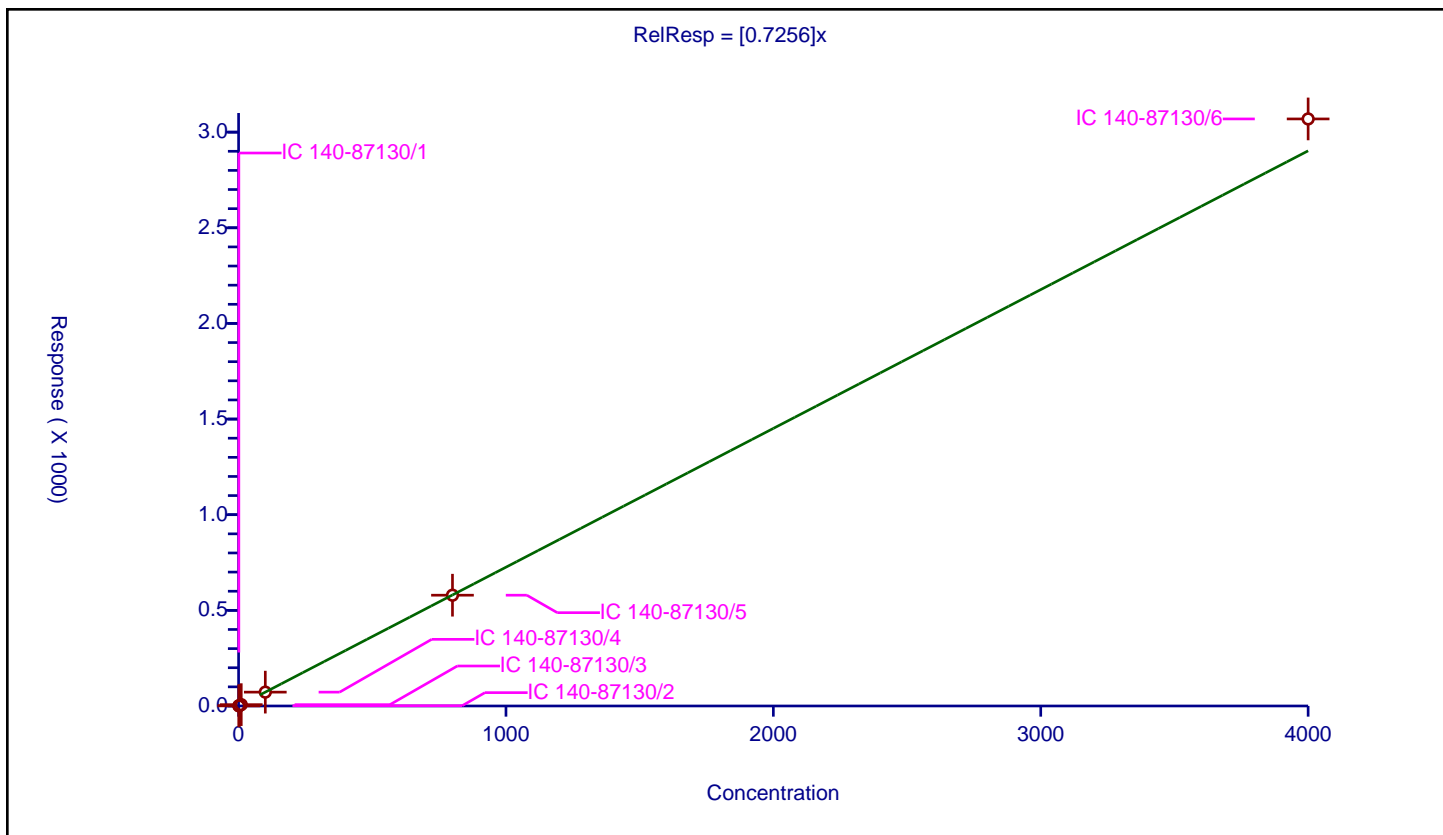
## Curve Coefficients

Intercept: 0  
 Slope: 0.7256

## Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.728518	100.0	6307321.0	0.728518	Y
2	IC 140-87130/2	2.0	1.405889	100.0	5566942.0	0.702944	Y
3	IC 140-87130/3	10.0	7.063016	100.0	5708638.0	0.706302	Y
4	IC 140-87130/4	100.0	72.442307	100.0	5786925.0	0.724423	Y
5	IC 140-87130/5	800.0	579.168111	100.0	5892178.0	0.72396	Y
6	IC 140-87130/6	4000.0	3068.99001	100.0	6037909.0	0.767248	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

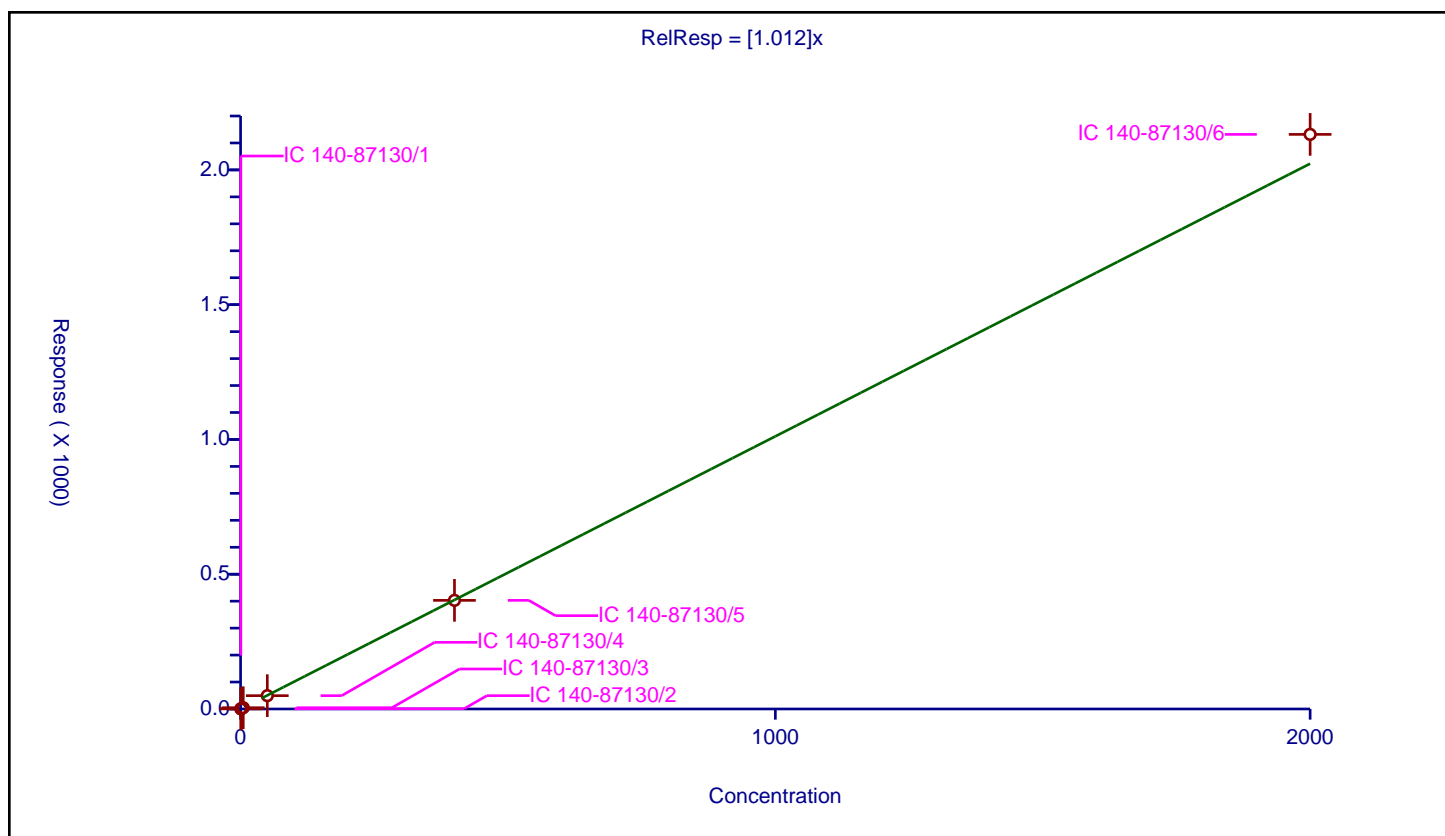
## Curve Coefficients

Intercept: 0  
Slope: 1.012

## Error Coefficients

Relative Standard Deviation: 4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.529337	100.0	6307321.0	1.058675	Y
2	IC 140-87130/2	1.0	1.000837	100.0	5566942.0	1.000837	Y
3	IC 140-87130/3	5.0	4.743653	100.0	5708638.0	0.948731	Y
4	IC 140-87130/4	50.0	49.401038	100.0	5786925.0	0.988021	Y
5	IC 140-87130/5	400.0	402.970667	100.0	5892178.0	1.007427	Y
6	IC 140-87130/6	2000.0	2131.795974	100.0	6037909.0	1.065898	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

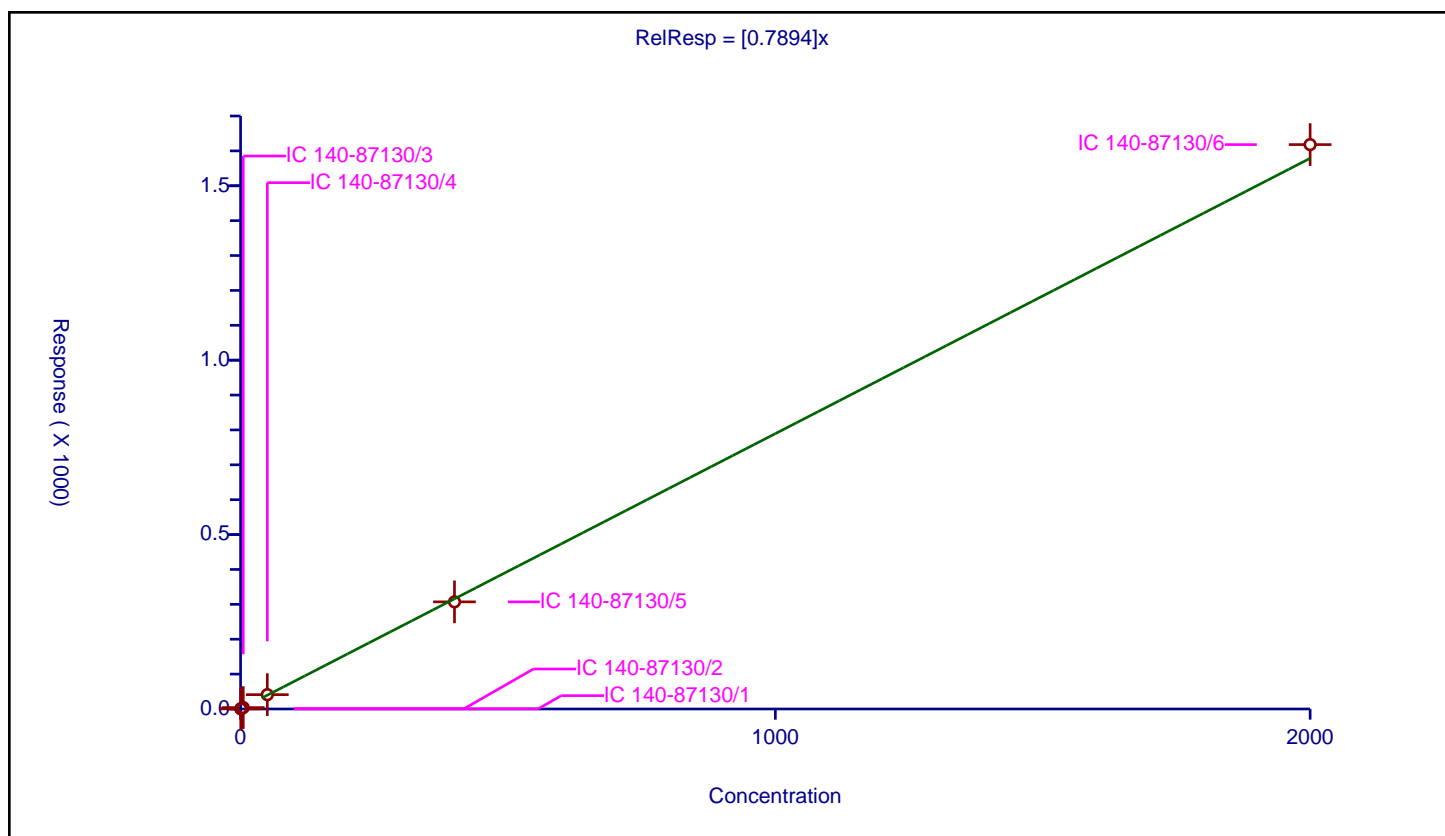
## Curve Coefficients

Intercept: 0  
Slope: 0.7894

## Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.387068	200.0	17145311.0	0.774136	Y
2	IC 140-87130/2	1.0	0.766692	200.0	16075823.0	0.766692	Y
3	IC 140-87130/3	5.0	3.98191	200.0	15994835.0	0.796382	Y
4	IC 140-87130/4	50.0	41.105116	200.0	16048883.0	0.822102	Y
5	IC 140-87130/5	400.0	307.159556	200.0	16797326.0	0.767899	Y
6	IC 140-87130/6	2000.0	1618.01164	200.0	18003846.0	0.809006	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

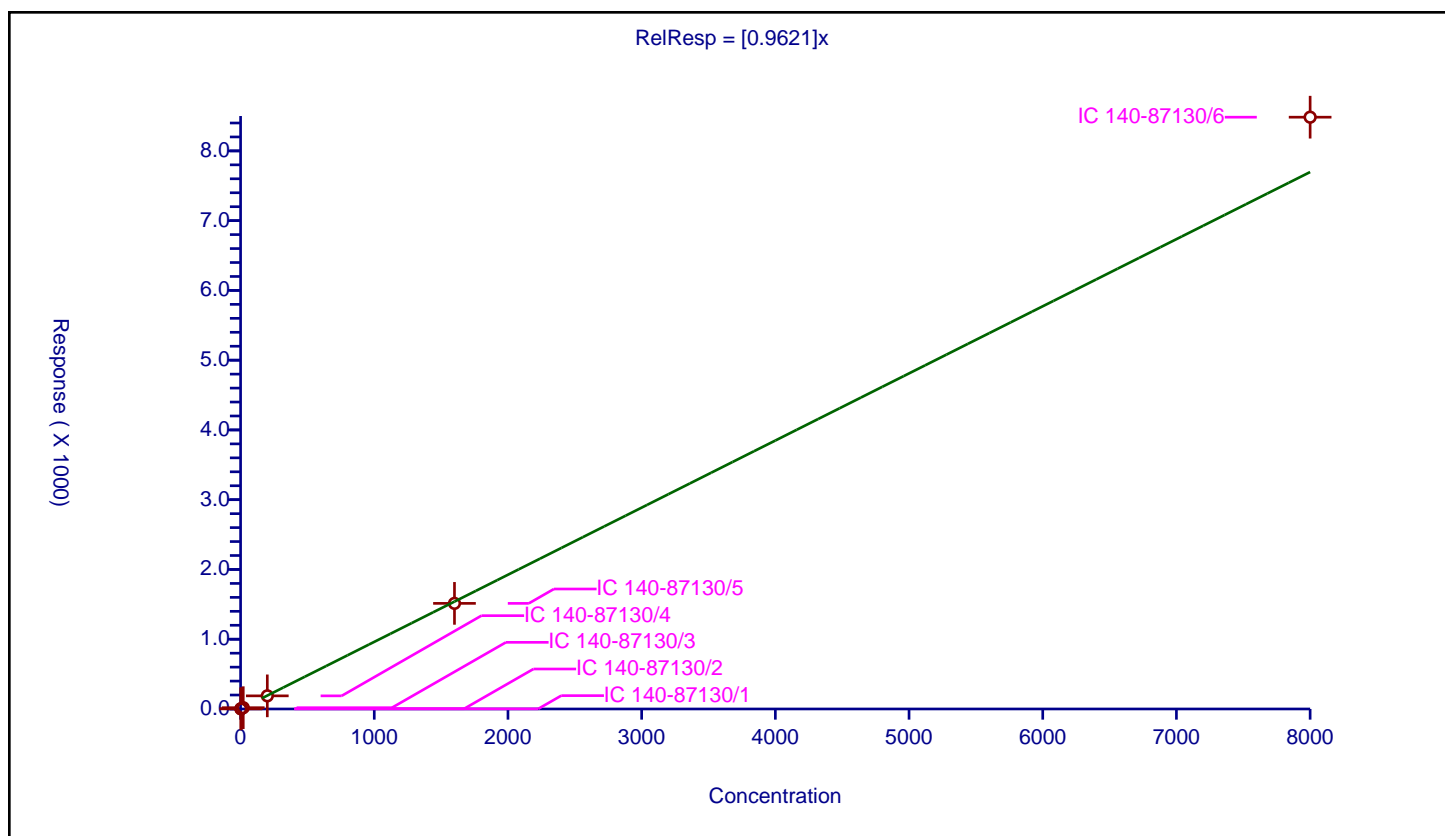
## Curve Coefficients

Intercept: 0  
Slope: 0.9621

## Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

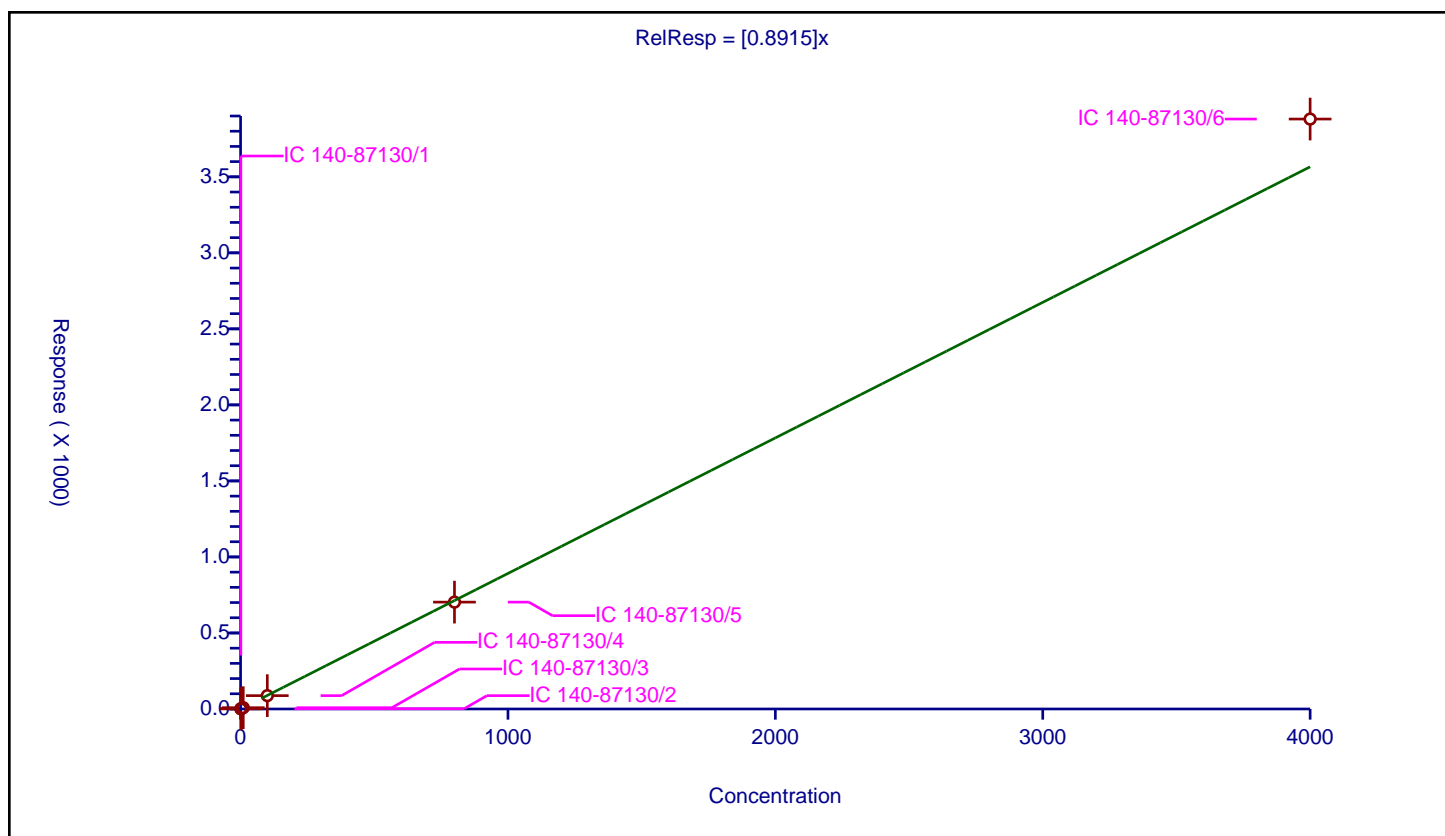
## Curve Coefficients

Intercept: 0  
Slope: 0.8915

## Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.89873	200.0	17145311.0	0.89873	Y
2	IC 140-87130/2	2.0	1.76409	200.0	16075823.0	0.882045	Y
3	IC 140-87130/3	10.0	8.421819	200.0	15994835.0	0.842182	Y
4	IC 140-87130/4	100.0	87.715687	200.0	16048883.0	0.877157	Y
5	IC 140-87130/5	800.0	702.950434	200.0	16797326.0	0.878688	Y
6	IC 140-87130/6	4000.0	3880.065815	200.0	18003846.0	0.970016	Y



# Calibration

/ PCB-139/140

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

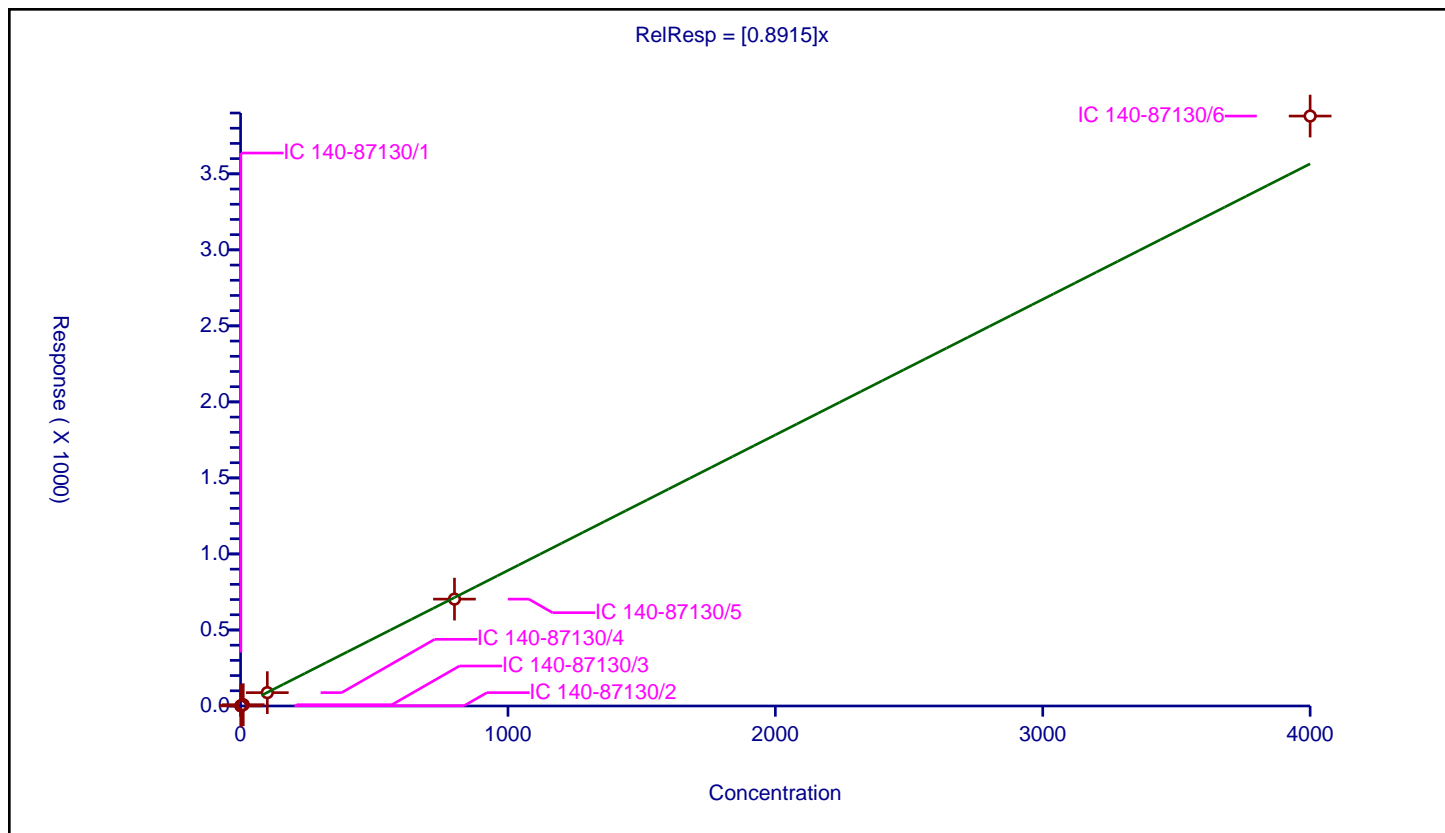
## Curve Coefficients

Intercept: 0  
Slope: 0.8915

## Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.89873	200.0	17145311.0	0.89873	Y
2	IC 140-87130/2	2.0	1.76409	200.0	16075823.0	0.882045	Y
3	IC 140-87130/3	10.0	8.421819	200.0	15994835.0	0.842182	Y
4	IC 140-87130/4	100.0	87.715687	200.0	16048883.0	0.877157	Y
5	IC 140-87130/5	800.0	702.950434	200.0	16797326.0	0.878688	Y
6	IC 140-87130/6	4000.0	3880.065815	200.0	18003846.0	0.970016	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

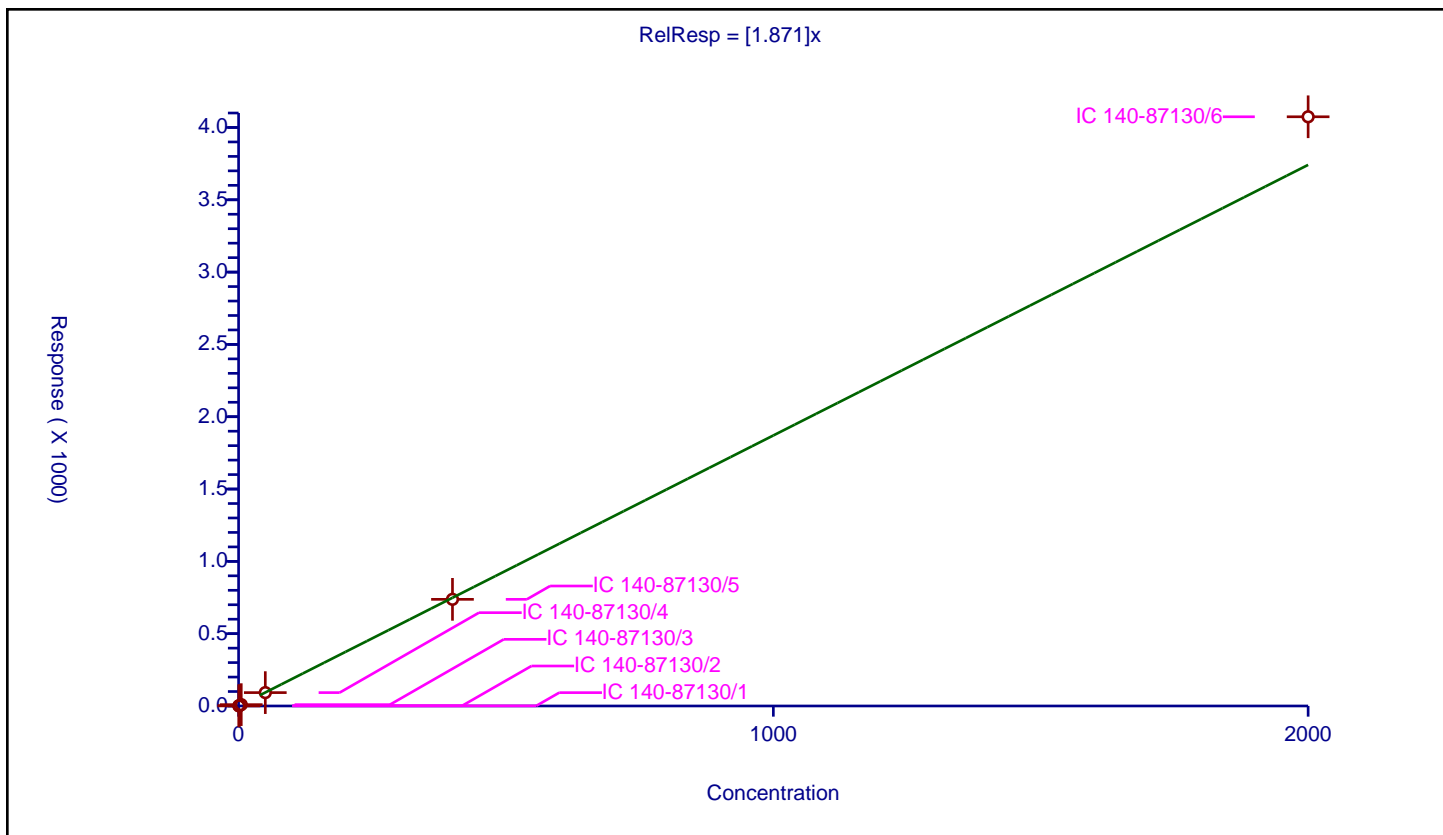
## Curve Coefficients

Intercept: 0  
Slope: 1.871

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.933302	100.0	5904521.0	1.866604	Y
2	IC 140-87130/2	1.0	1.758407	100.0	5442766.0	1.758407	Y
3	IC 140-87130/3	5.0	9.337166	100.0	5279032.0	1.867433	Y
4	IC 140-87130/4	50.0	92.543587	100.0	5474214.0	1.850872	Y
5	IC 140-87130/5	400.0	737.446207	100.0	5561618.0	1.843616	Y
6	IC 140-87130/6	2000.0	4073.908528	100.0	5672202.0	2.036954	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

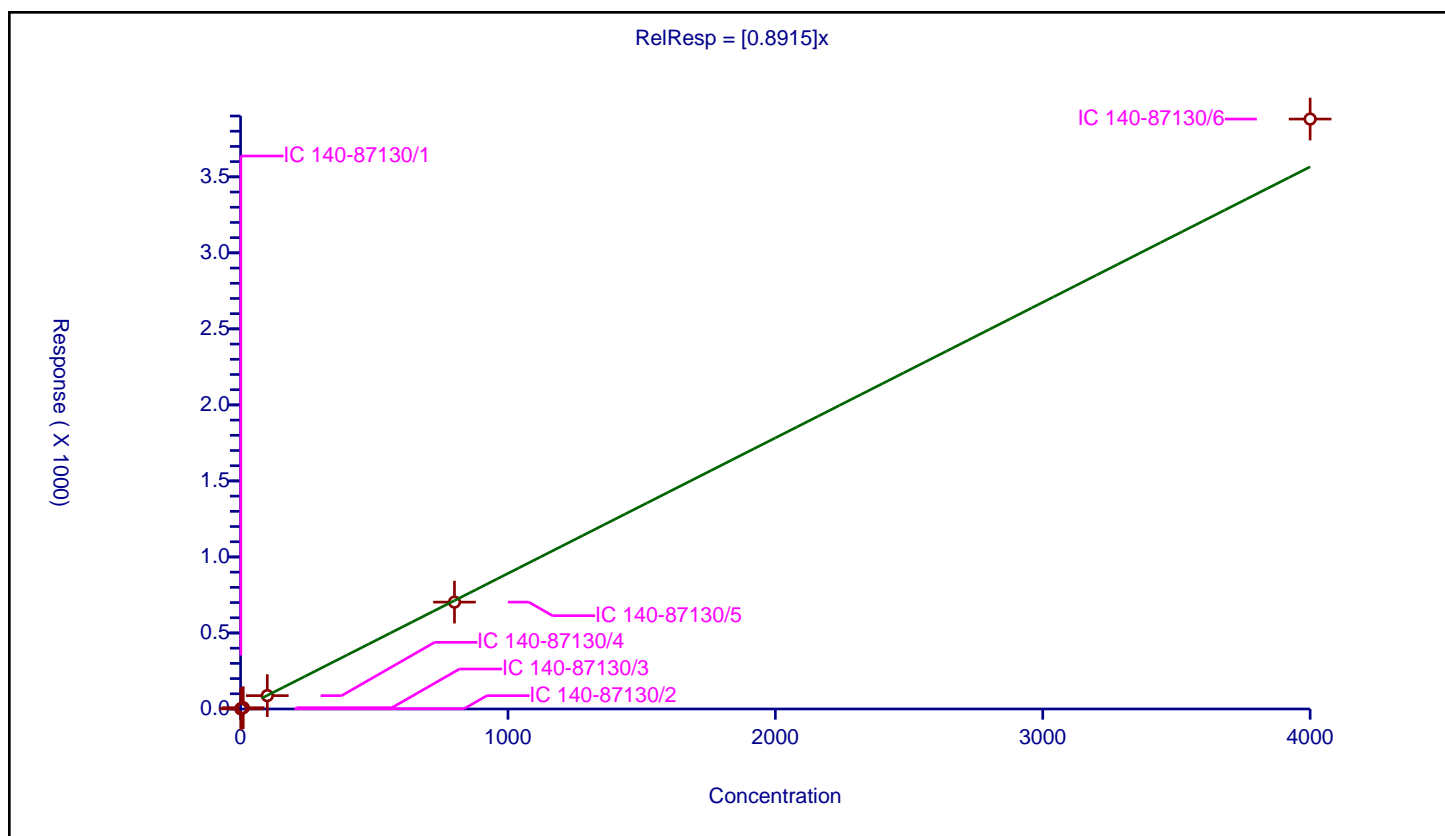
## Curve Coefficients

Intercept: 0  
Slope: 0.8915

## Error Coefficients

Relative Standard Deviation: 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.89873	200.0	17145311.0	0.89873	Y
2	IC 140-87130/2	2.0	1.76409	200.0	16075823.0	0.882045	Y
3	IC 140-87130/3	10.0	8.421819	200.0	15994835.0	0.842182	Y
4	IC 140-87130/4	100.0	87.715687	200.0	16048883.0	0.877157	Y
5	IC 140-87130/5	800.0	702.950434	200.0	16797326.0	0.878688	Y
6	IC 140-87130/6	4000.0	3880.065815	200.0	18003846.0	0.970016	Y



# Calibration

/ PCB-141

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

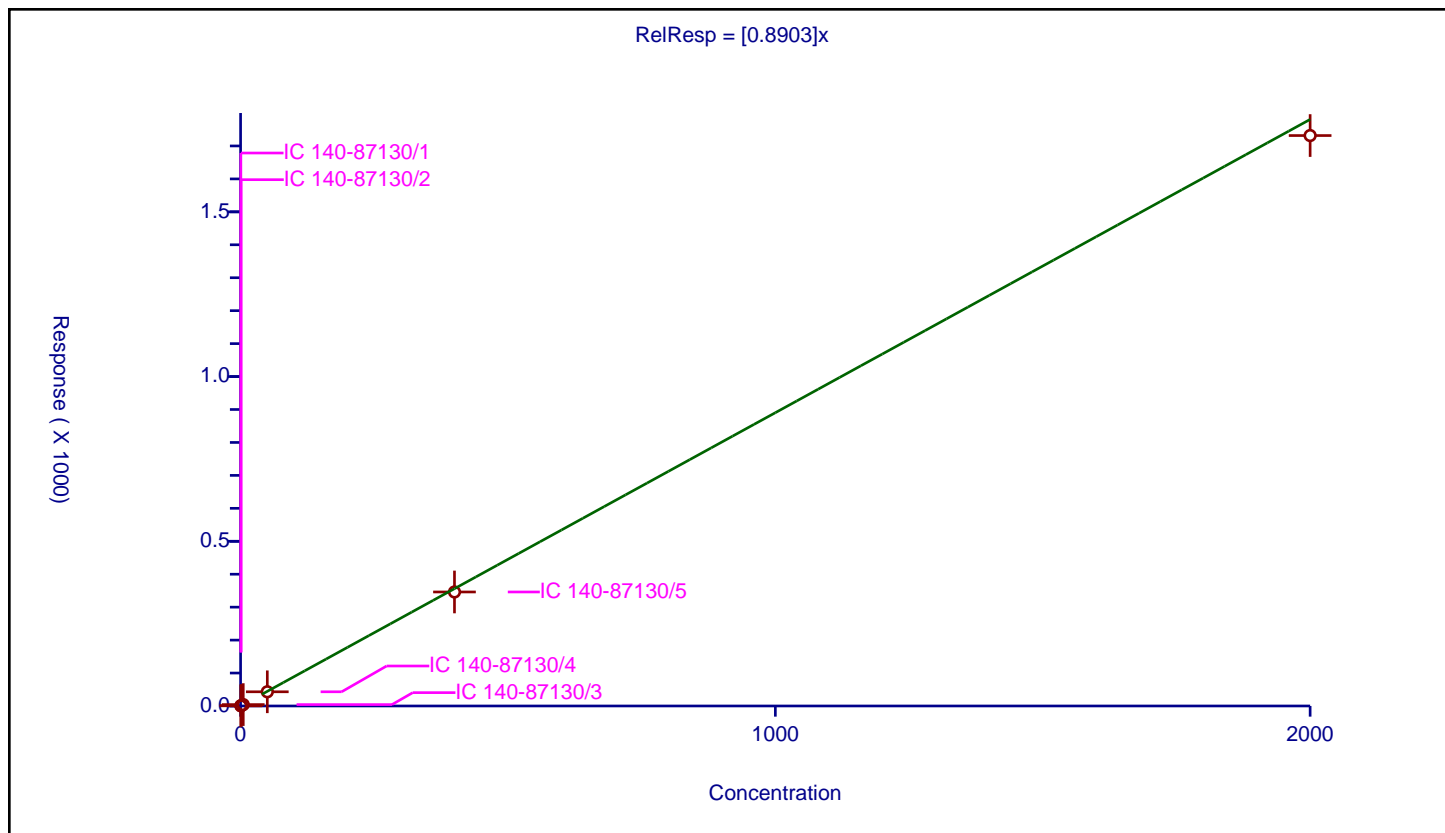
## Curve Coefficients

Intercept: 0  
 Slope: 0.8903

## Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.48601	200.0	17145311.0	0.972021	Y
2	IC 140-87130/2	1.0	0.929644	200.0	16075823.0	0.929644	Y
3	IC 140-87130/3	5.0	4.232141	200.0	15994835.0	0.846428	Y
4	IC 140-87130/4	50.0	43.135127	200.0	16048883.0	0.862703	Y
5	IC 140-87130/5	400.0	346.061427	200.0	16797326.0	0.865154	Y
6	IC 140-87130/6	2000.0	1731.592927	200.0	18003846.0	0.865796	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

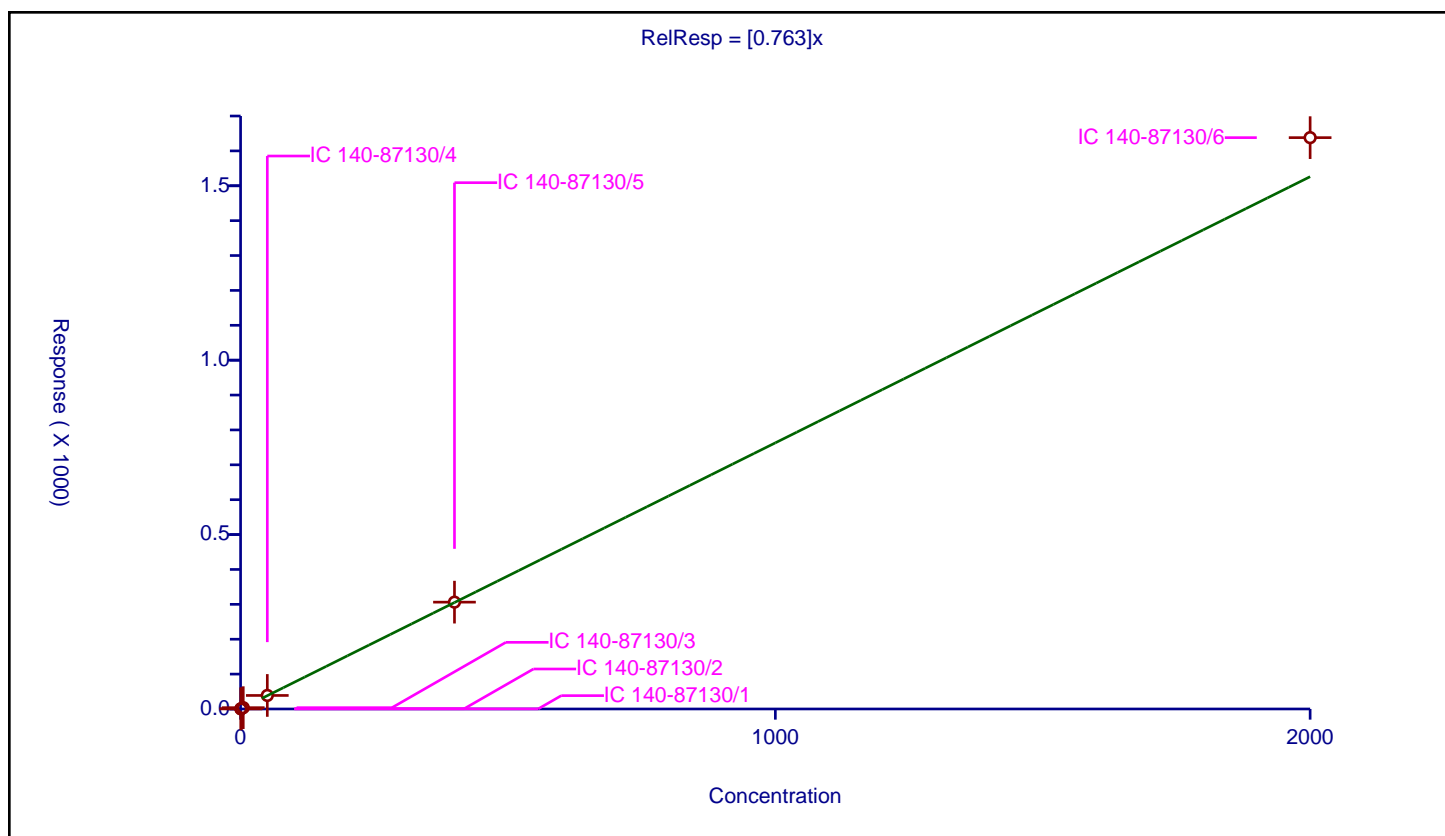
## Curve Coefficients

Intercept: 0  
Slope: 0.763

## Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.366992	200.0	17145311.0	0.733985	Y
2	IC 140-87130/2	1.0	0.729767	200.0	16075823.0	0.729767	Y
3	IC 140-87130/3	5.0	3.765791	200.0	15994835.0	0.753158	Y
4	IC 140-87130/4	50.0	38.820833	200.0	16048883.0	0.776417	Y
5	IC 140-87130/5	400.0	306.326043	200.0	16797326.0	0.765815	Y
6	IC 140-87130/6	2000.0	1638.013444	200.0	18003846.0	0.819007	Y





# Calibration

/ PCB-143

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

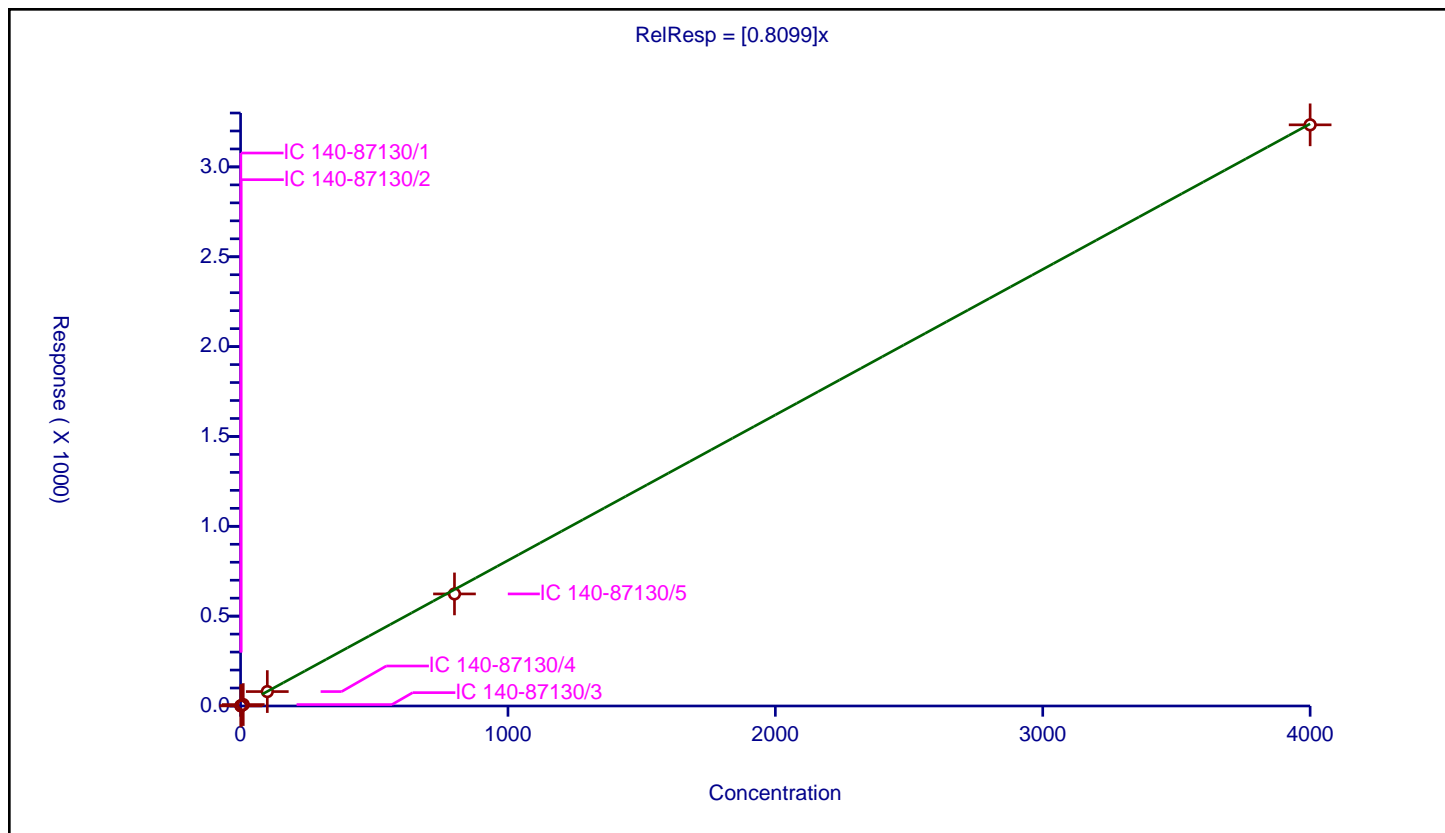
## Curve Coefficients

Intercept: 0  
 Slope: 0.8099

## Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.853761	200.0	17145311.0	0.853761	Y
2	IC 140-87130/2	2.0	1.628296	200.0	16075823.0	0.814148	Y
3	IC 140-87130/3	10.0	8.010286	200.0	15994835.0	0.801029	Y
4	IC 140-87130/4	100.0	80.260988	200.0	16048883.0	0.80261	Y
5	IC 140-87130/5	800.0	623.646919	200.0	16797326.0	0.779559	Y
6	IC 140-87130/6	4000.0	3234.214523	200.0	18003846.0	0.808554	Y



# Calibration

/ PCB-144

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

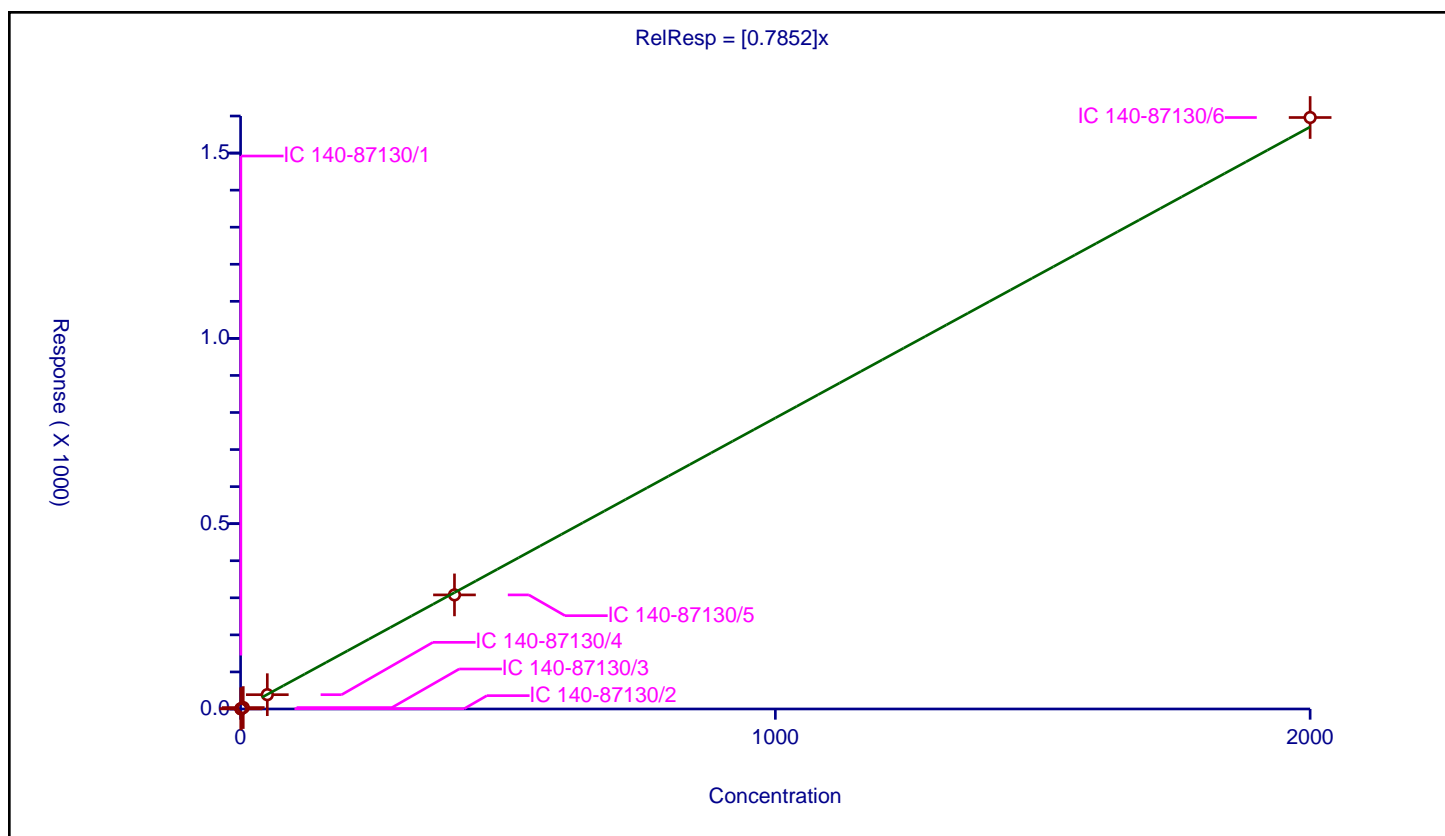
## Curve Coefficients

Intercept: 0  
 Slope: 0.7852

## Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.41279	100.0	6307321.0	0.82558	Y
2	IC 140-87130/2	1.0	0.783931	100.0	5566942.0	0.783931	Y
3	IC 140-87130/3	5.0	3.813957	100.0	5708638.0	0.762791	Y
4	IC 140-87130/4	50.0	38.575427	100.0	5786925.0	0.771509	Y
5	IC 140-87130/5	400.0	307.855126	100.0	5892178.0	0.769638	Y
6	IC 140-87130/6	2000.0	1595.950486	100.0	6037909.0	0.797975	Y



## Calibration

/ PCB-145

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

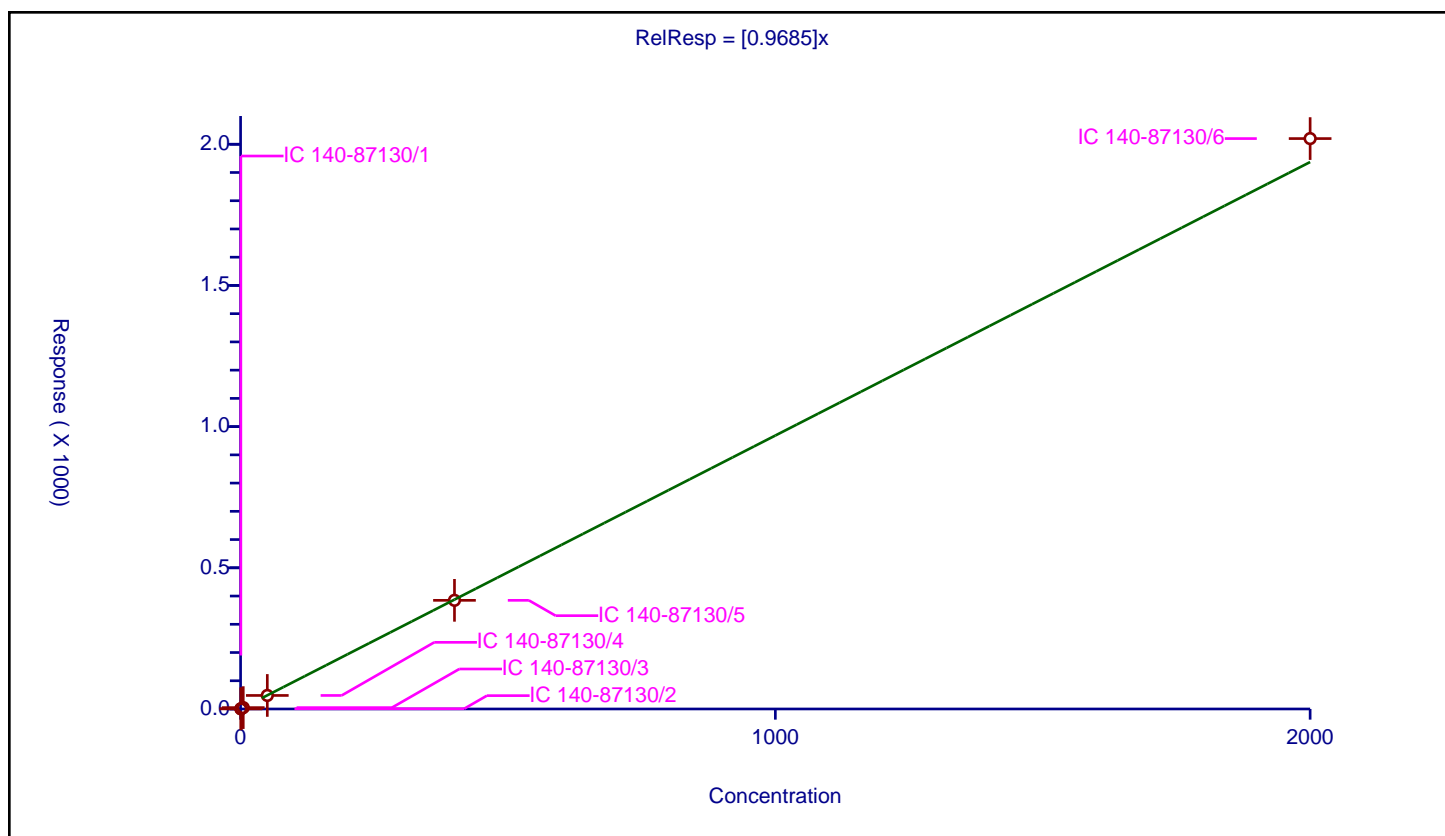
## Curve Coefficients

Intercept: 0  
Slope: 0.9685

## Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.498246	100.0	6307321.0	0.996493	Y
2	IC 140-87130/2	1.0	0.92011	100.0	5566942.0	0.92011	Y
3	IC 140-87130/3	5.0	4.817839	100.0	5708638.0	0.963568	Y
4	IC 140-87130/4	50.0	47.93449	100.0	5786925.0	0.95869	Y
5	IC 140-87130/5	400.0	384.788291	100.0	5892178.0	0.961971	Y
6	IC 140-87130/6	2000.0	2020.098349	100.0	6037909.0	1.010049	Y



# Calibration

/ PCB-146

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

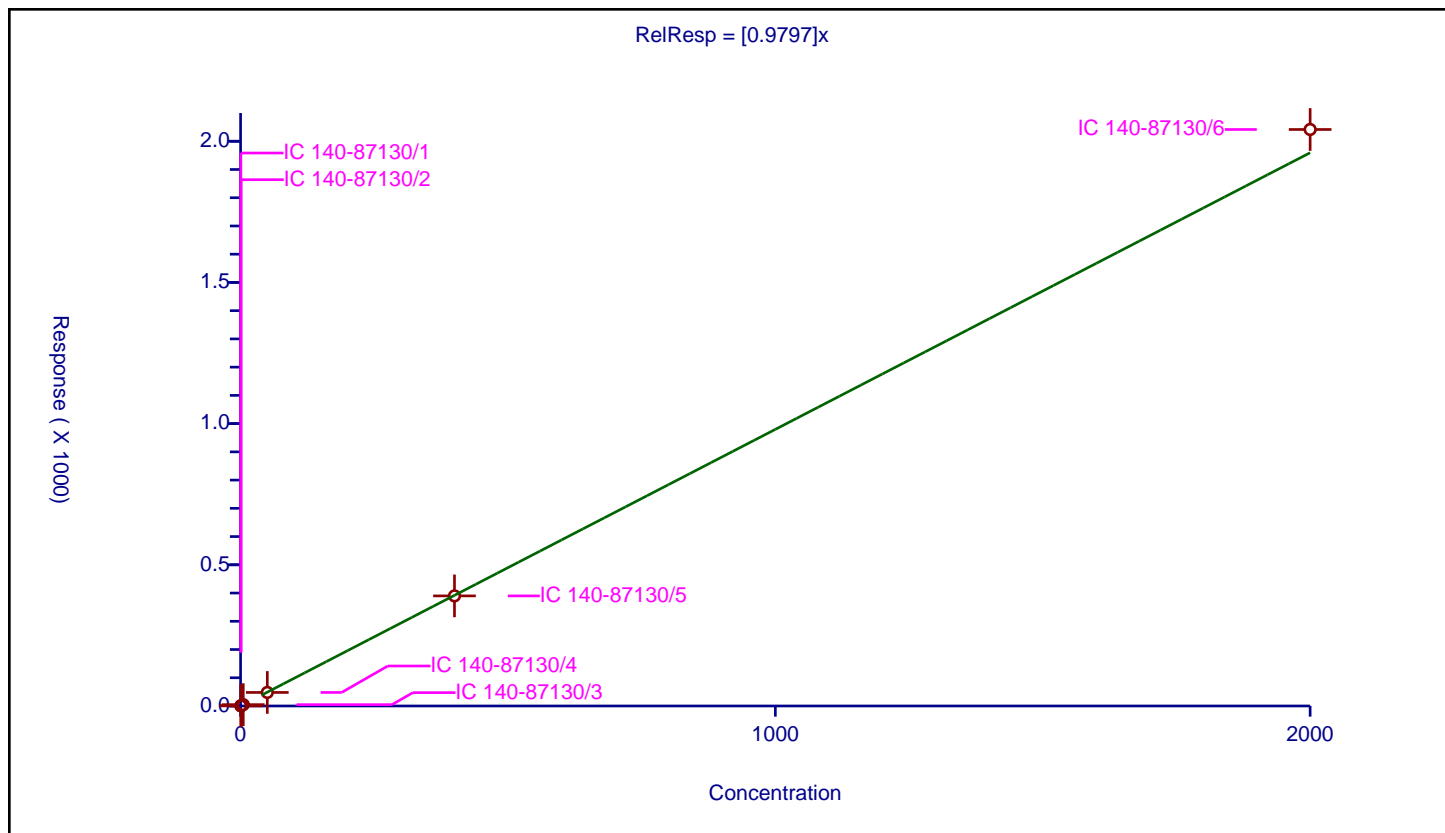
## Curve Coefficients

Intercept: 0  
 Slope: 0.9797

## Error Coefficients

Relative Standard Deviation: 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.49035	200.0	17145311.0	0.9807	Y
2	IC 140-87130/2	1.0	0.996254	200.0	16075823.0	0.996254	Y
3	IC 140-87130/3	5.0	4.734766	200.0	15994835.0	0.946953	Y
4	IC 140-87130/4	50.0	47.921154	200.0	16048883.0	0.958423	Y
5	IC 140-87130/5	400.0	389.923384	200.0	16797326.0	0.974808	Y
6	IC 140-87130/6	2000.0	2041.6516	200.0	18003846.0	1.020826	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

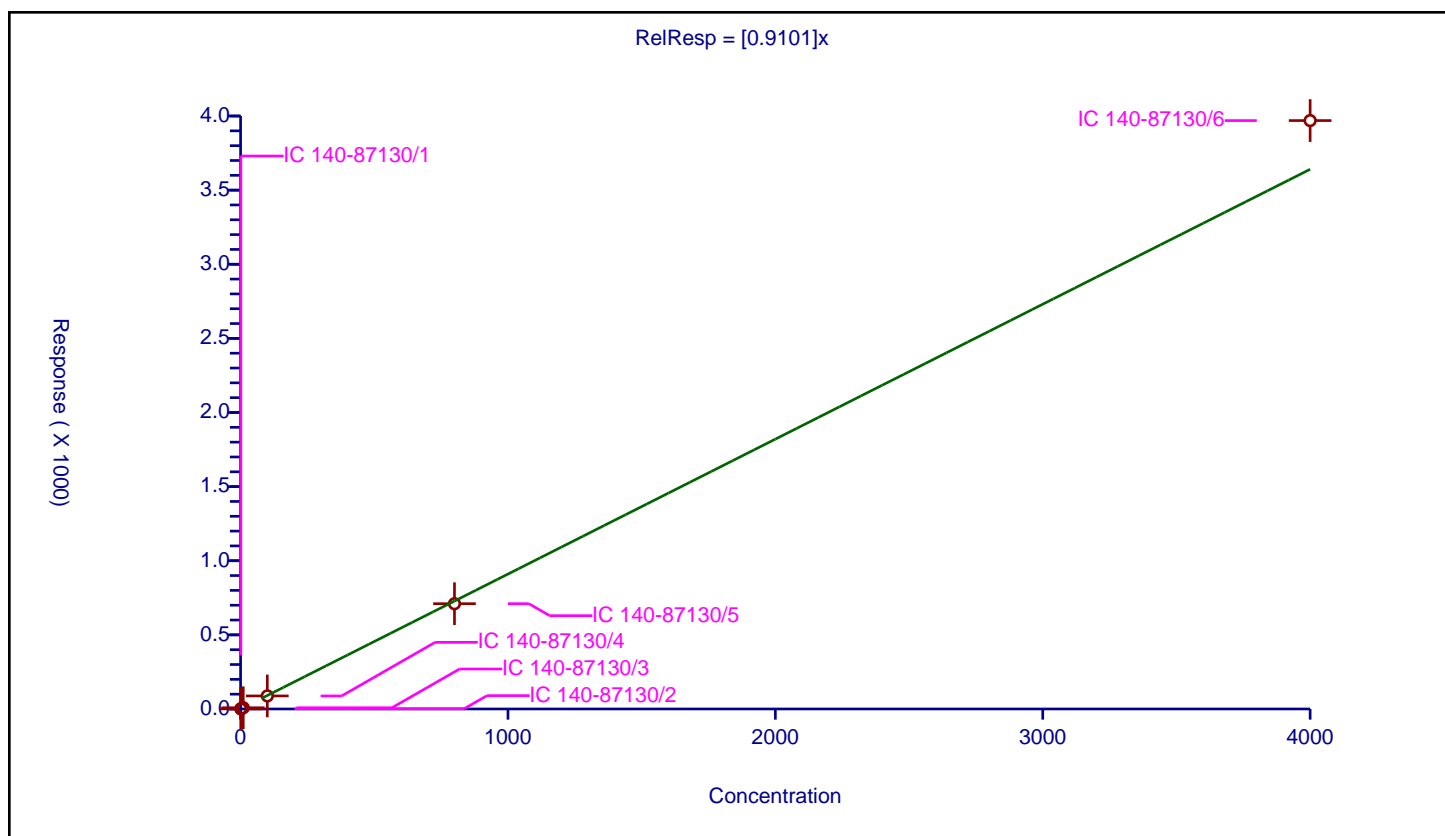
## Curve Coefficients

Intercept: 0  
Slope: 0.9101

## Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.99794	200.0	17145311.0	0.99794	Y
2	IC 140-87130/2	2.0	1.715968	200.0	16075823.0	0.857984	Y
3	IC 140-87130/3	10.0	8.442125	200.0	15994835.0	0.844213	Y
4	IC 140-87130/4	100.0	88.06993	200.0	16048883.0	0.880699	Y
5	IC 140-87130/5	800.0	710.182323	200.0	16797326.0	0.887728	Y
6	IC 140-87130/6	4000.0	3969.18404	200.0	18003846.0	0.992296	Y



# Calibration

/ PCB-147/149

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

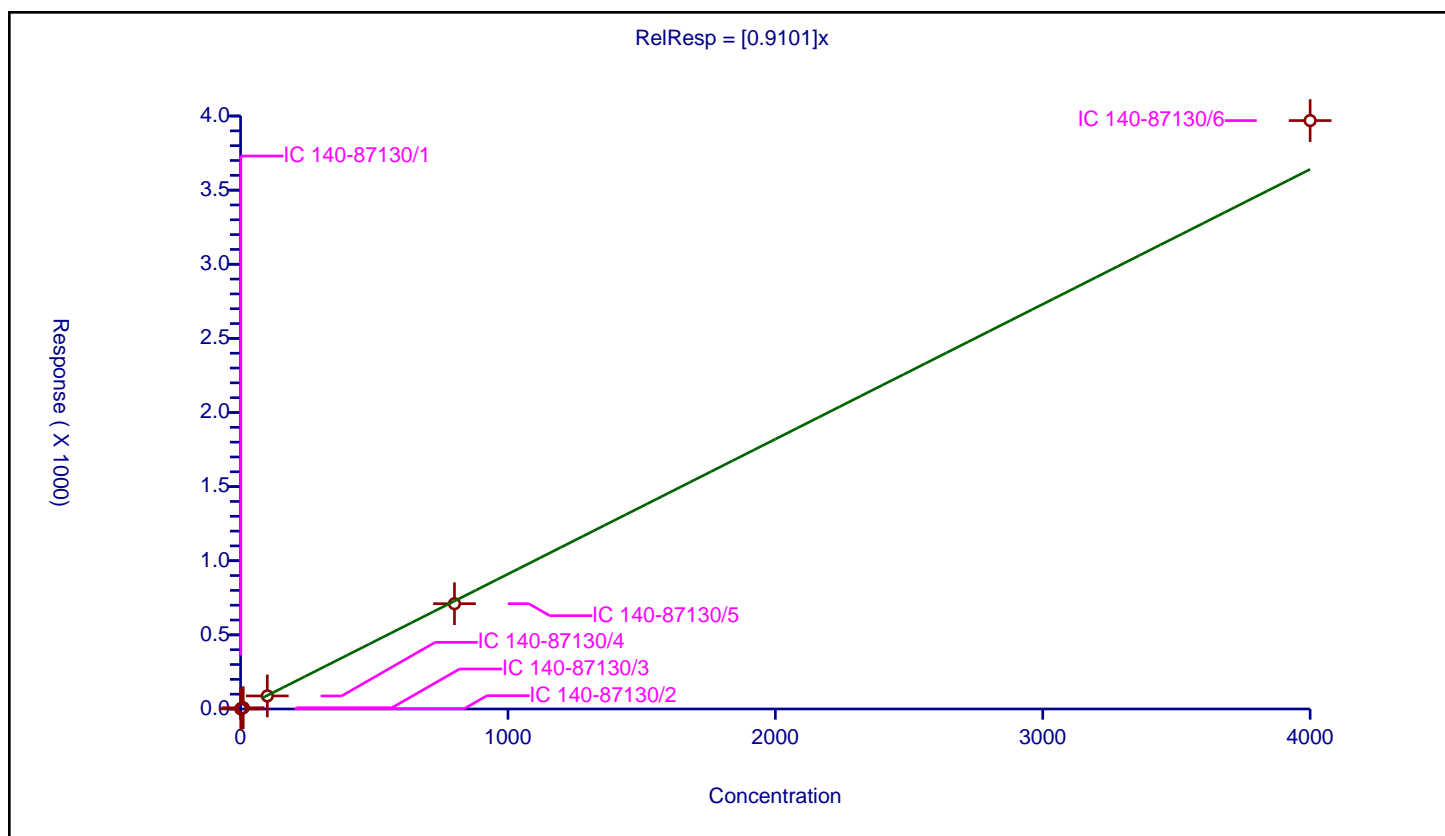
## Curve Coefficients

Intercept: 0  
 Slope: 0.9101

## Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.99794	200.0	17145311.0	0.99794	Y
2	IC 140-87130/2	2.0	1.715968	200.0	16075823.0	0.857984	Y
3	IC 140-87130/3	10.0	8.442125	200.0	15994835.0	0.844213	Y
4	IC 140-87130/4	100.0	88.06993	200.0	16048883.0	0.880699	Y
5	IC 140-87130/5	800.0	710.182323	200.0	16797326.0	0.887728	Y
6	IC 140-87130/6	4000.0	3969.18404	200.0	18003846.0	0.992296	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

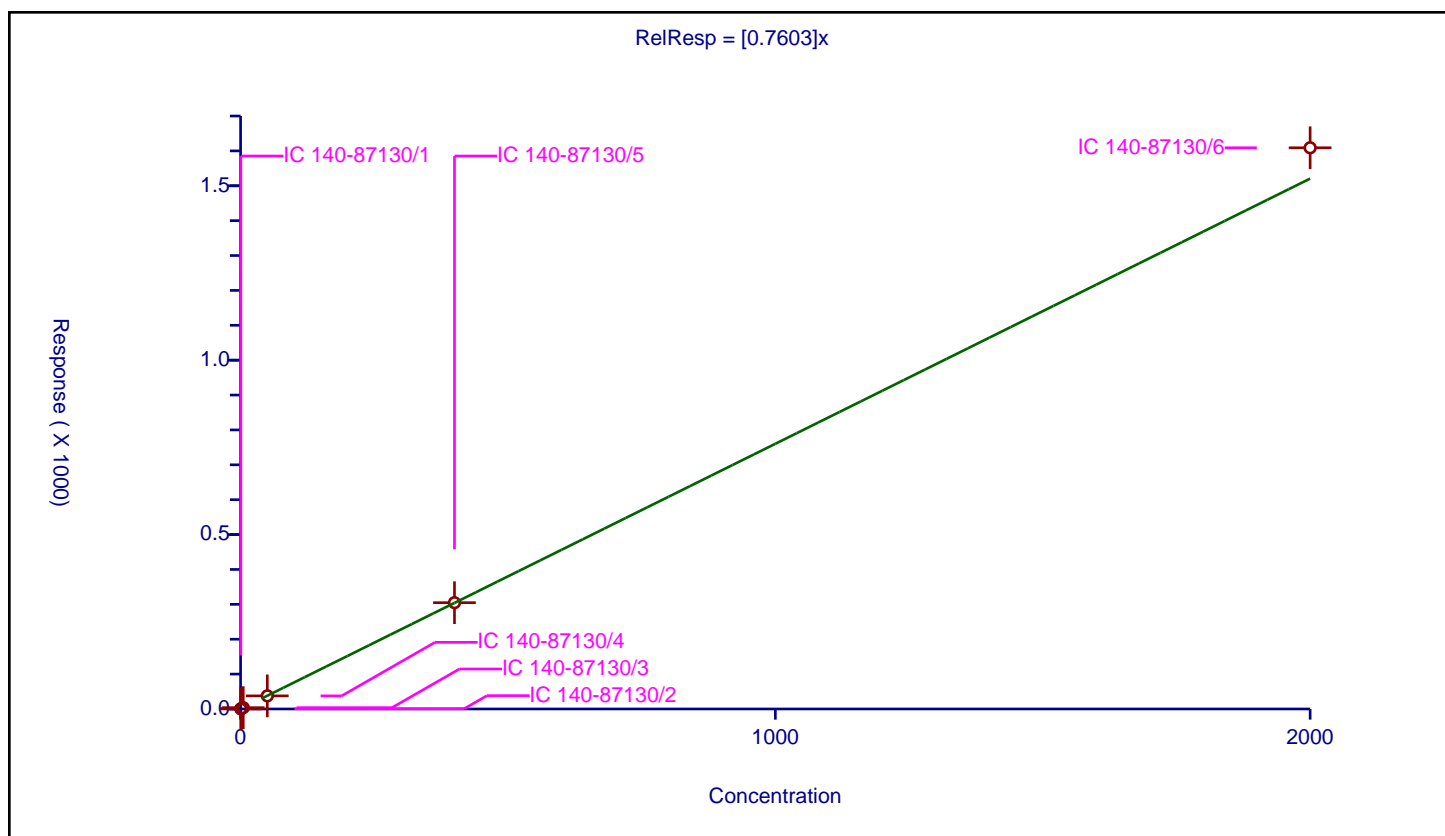
## Curve Coefficients

Intercept: 0  
Slope: 0.7603

## Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.382302	100.0	6307321.0	0.764604	Y
2	IC 140-87130/2	1.0	0.725138	100.0	5566942.0	0.725138	Y
3	IC 140-87130/3	5.0	3.767291	100.0	5708638.0	0.753458	Y
4	IC 140-87130/4	50.0	37.606414	100.0	5786925.0	0.752128	Y
5	IC 140-87130/5	400.0	304.766658	100.0	5892178.0	0.761917	Y
6	IC 140-87130/6	2000.0	1608.934318	100.0	6037909.0	0.804467	Y



# Calibration

/ PCB-149

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

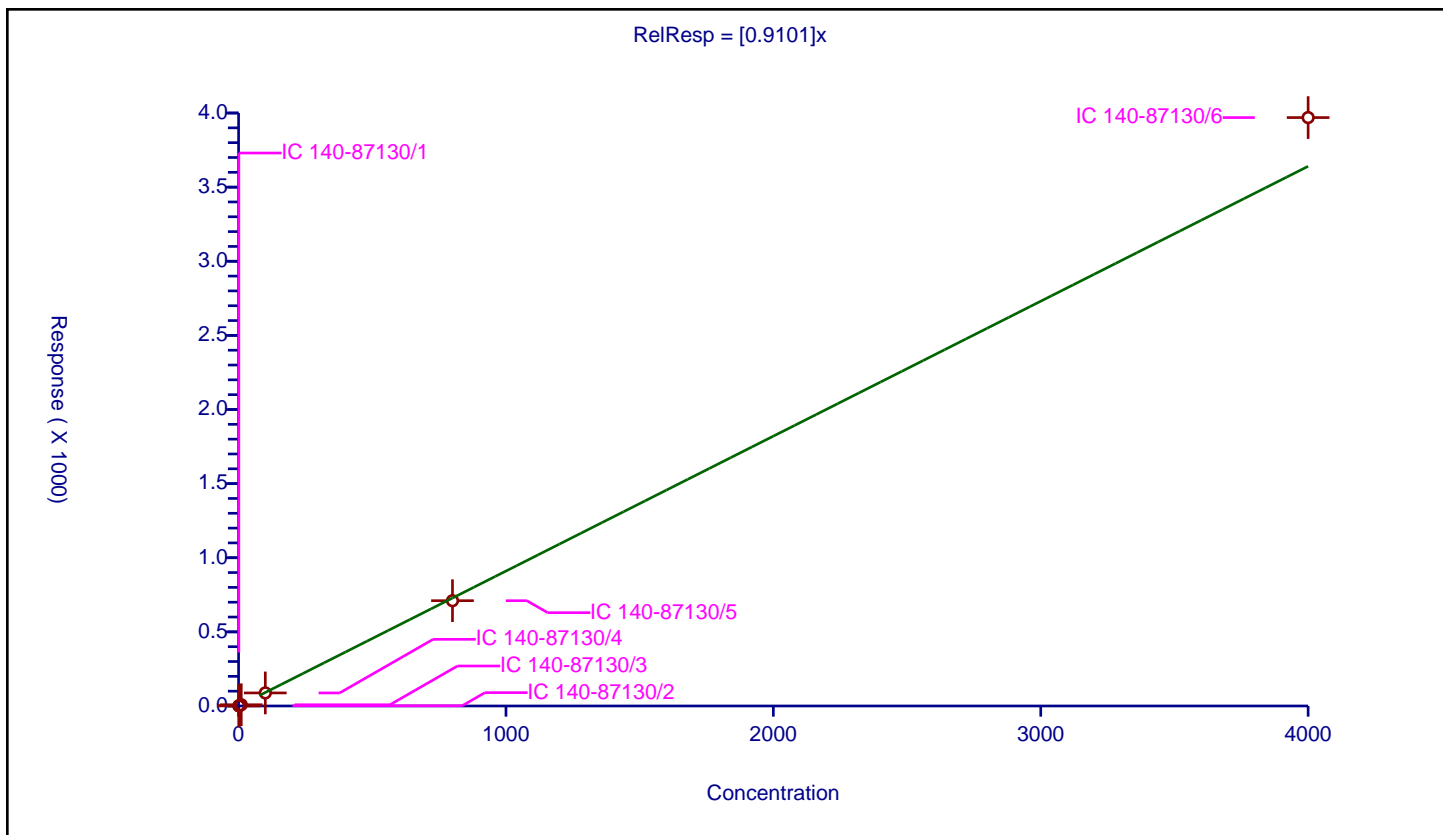
## Curve Coefficients

Intercept: 0  
 Slope: 0.9101

## Error Coefficients

Relative Standard Deviation: 7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.99794	200.0	17145311.0	0.99794	Y
2	IC 140-87130/2	2.0	1.715968	200.0	16075823.0	0.857984	Y
3	IC 140-87130/3	10.0	8.442125	200.0	15994835.0	0.844213	Y
4	IC 140-87130/4	100.0	88.06993	200.0	16048883.0	0.880699	Y
5	IC 140-87130/5	800.0	710.182323	200.0	16797326.0	0.887728	Y
6	IC 140-87130/6	4000.0	3969.18404	200.0	18003846.0	0.992296	Y





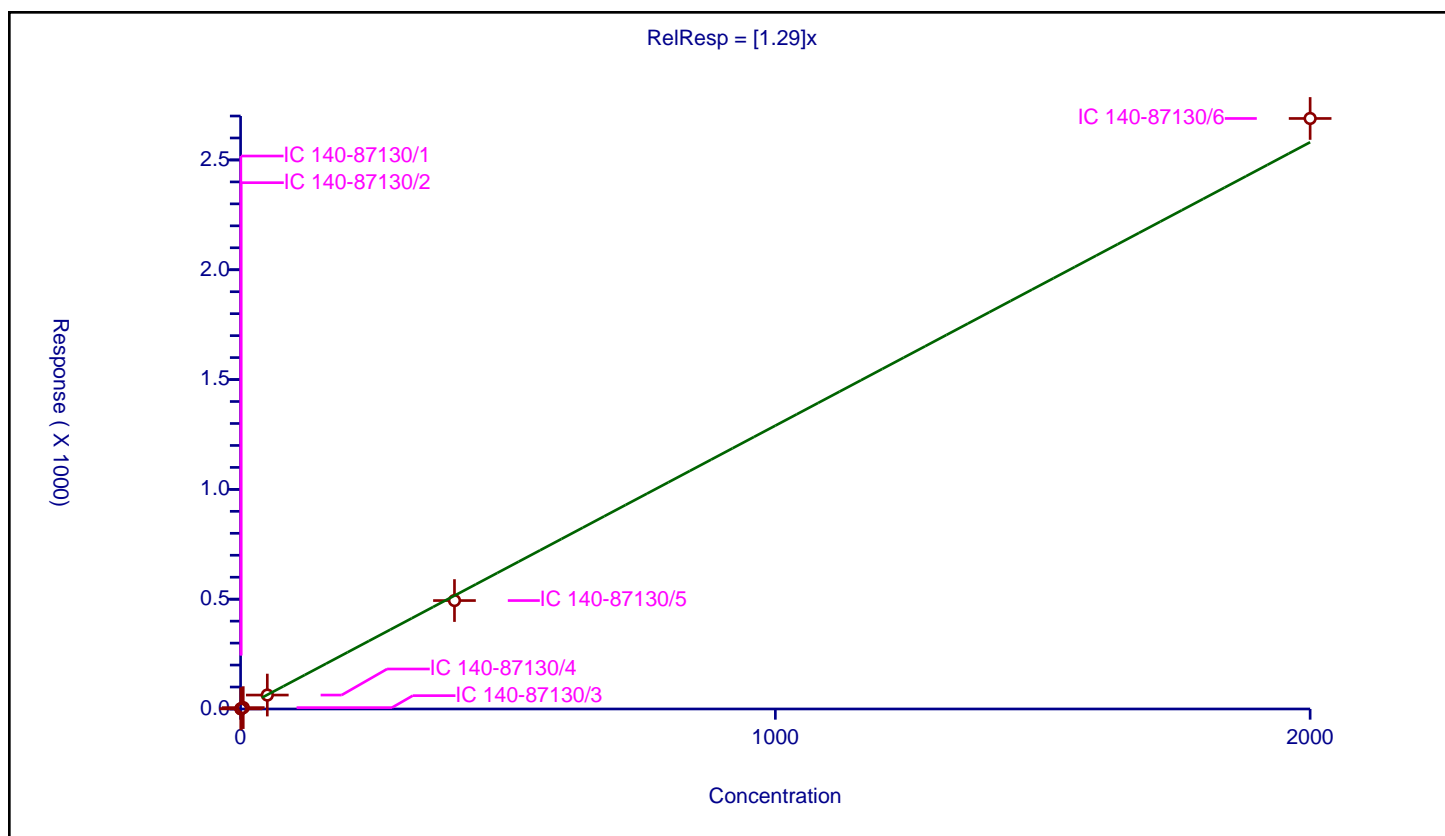
## / PCB-15

## Curve Coefficients

## Error Coefficients

**Relative Standard Deviation:** 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.673614	100.0	9483770.0	1.347228	Y
2	IC 140-87130/2	1.0	1.291522	100.0	8819361.0	1.291522	Y
3	IC 140-87130/3	5.0	6.271571	100.0	8806182.0	1.254314	Y
4	IC 140-87130/4	50.0	63.487669	100.0	8855244.0	1.269753	Y
5	IC 140-87130/5	400.0	493.815295	100.0	9575202.0	1.234538	Y
6	IC 140-87130/6	2000.0	2688.84542	100.0	10031243.0	1.344423	Y



# Calibration

/ PCB-150

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

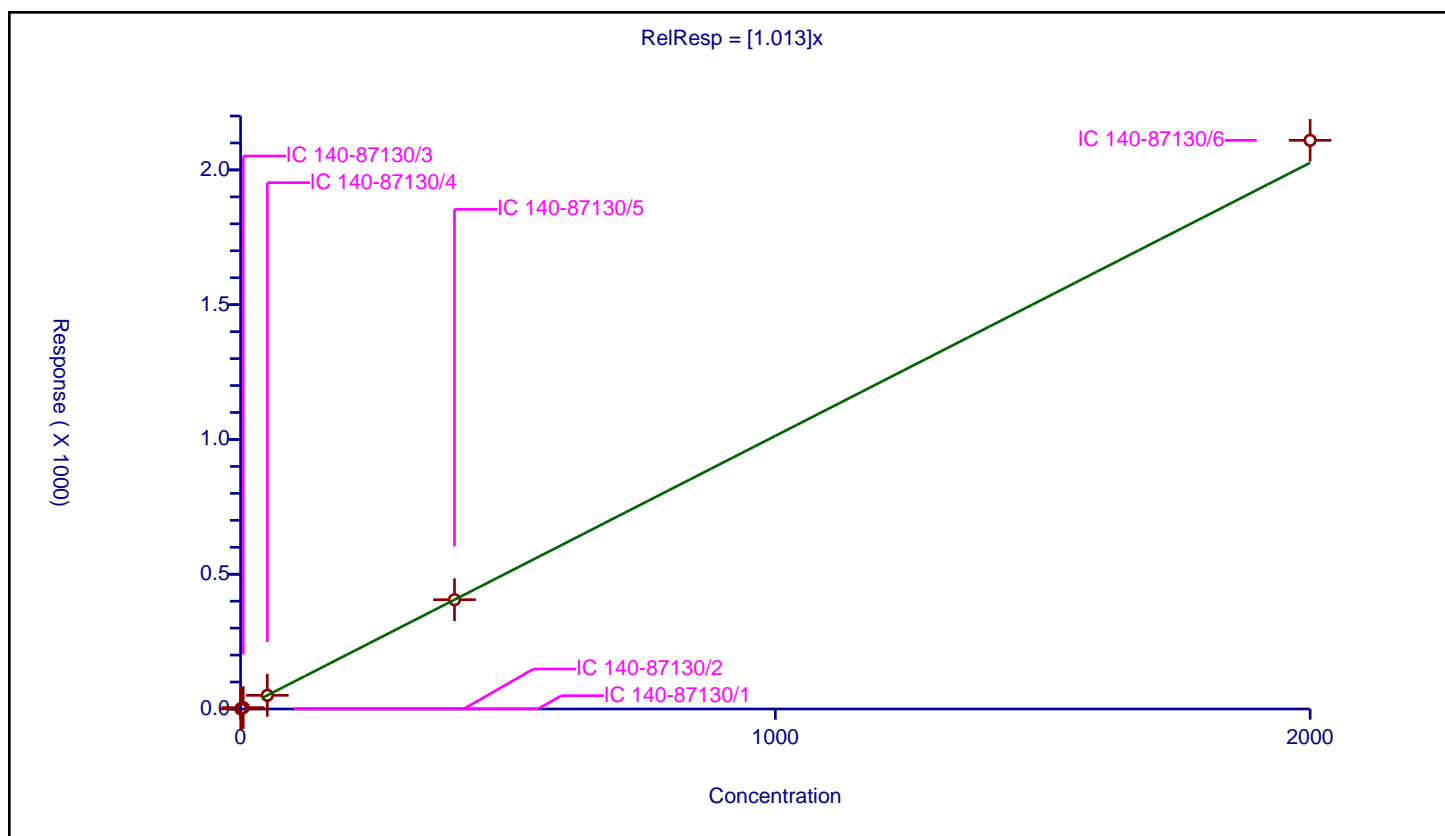
## Curve Coefficients

Intercept: 0  
 Slope: 1.013

## Error Coefficients

Relative Standard Deviation: 2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.48152	100.0	6307321.0	0.96304	Y
2	IC 140-87130/2	1.0	1.00795	100.0	5566942.0	1.00795	Y
3	IC 140-87130/3	5.0	5.130628	100.0	5708638.0	1.026126	Y
4	IC 140-87130/4	50.0	50.685381	100.0	5786925.0	1.013708	Y
5	IC 140-87130/5	400.0	405.467316	100.0	5892178.0	1.013668	Y
6	IC 140-87130/6	2000.0	2109.852633	100.0	6037909.0	1.054926	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

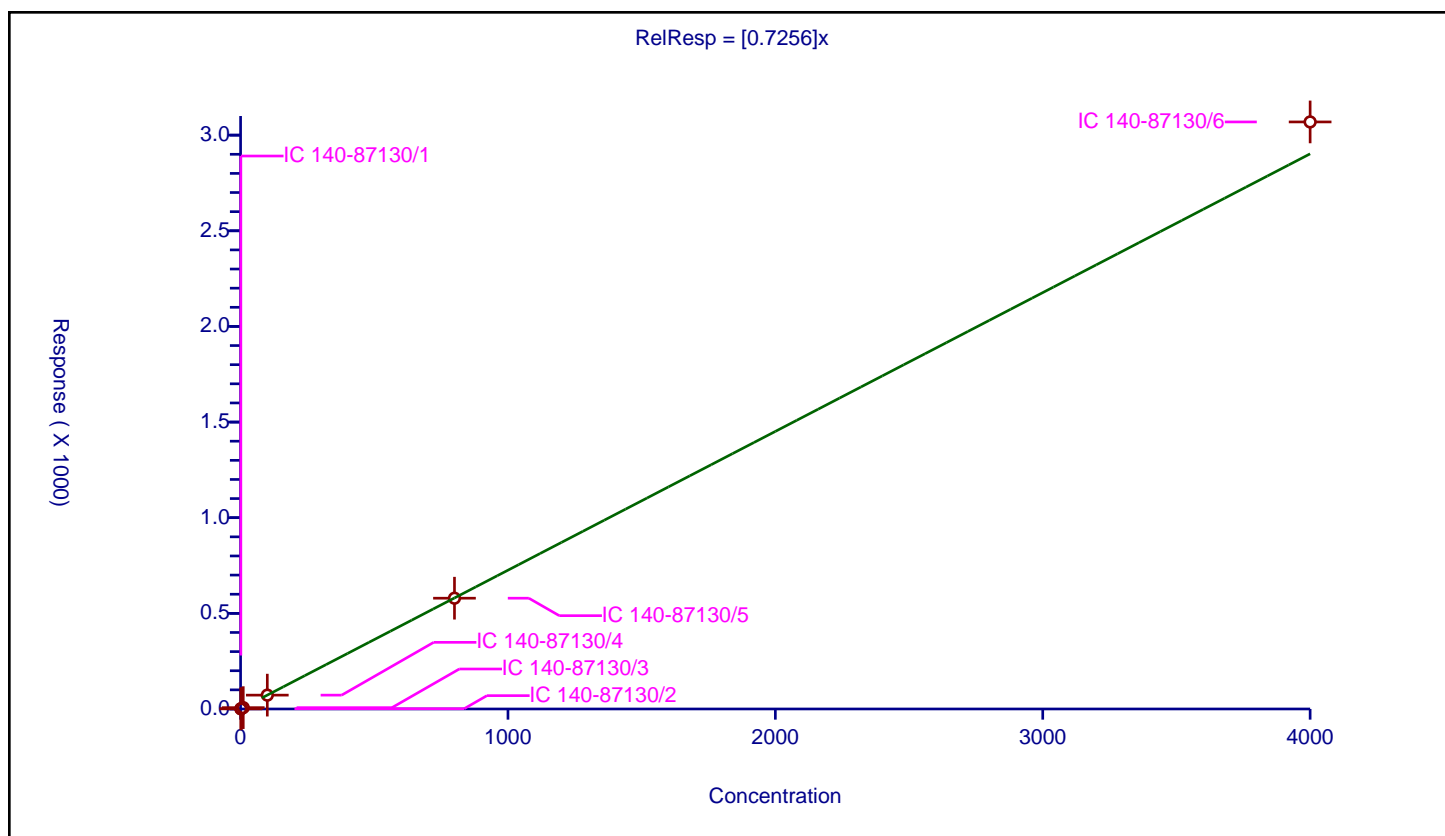
## Curve Coefficients

Intercept: 0  
Slope: 0.7256

## Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.728518	100.0	6307321.0	0.728518	Y
2	IC 140-87130/2	2.0	1.405889	100.0	5566942.0	0.702944	Y
3	IC 140-87130/3	10.0	7.063016	100.0	5708638.0	0.706302	Y
4	IC 140-87130/4	100.0	72.442307	100.0	5786925.0	0.724423	Y
5	IC 140-87130/5	800.0	579.168111	100.0	5892178.0	0.72396	Y
6	IC 140-87130/6	4000.0	3068.99001	100.0	6037909.0	0.767248	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

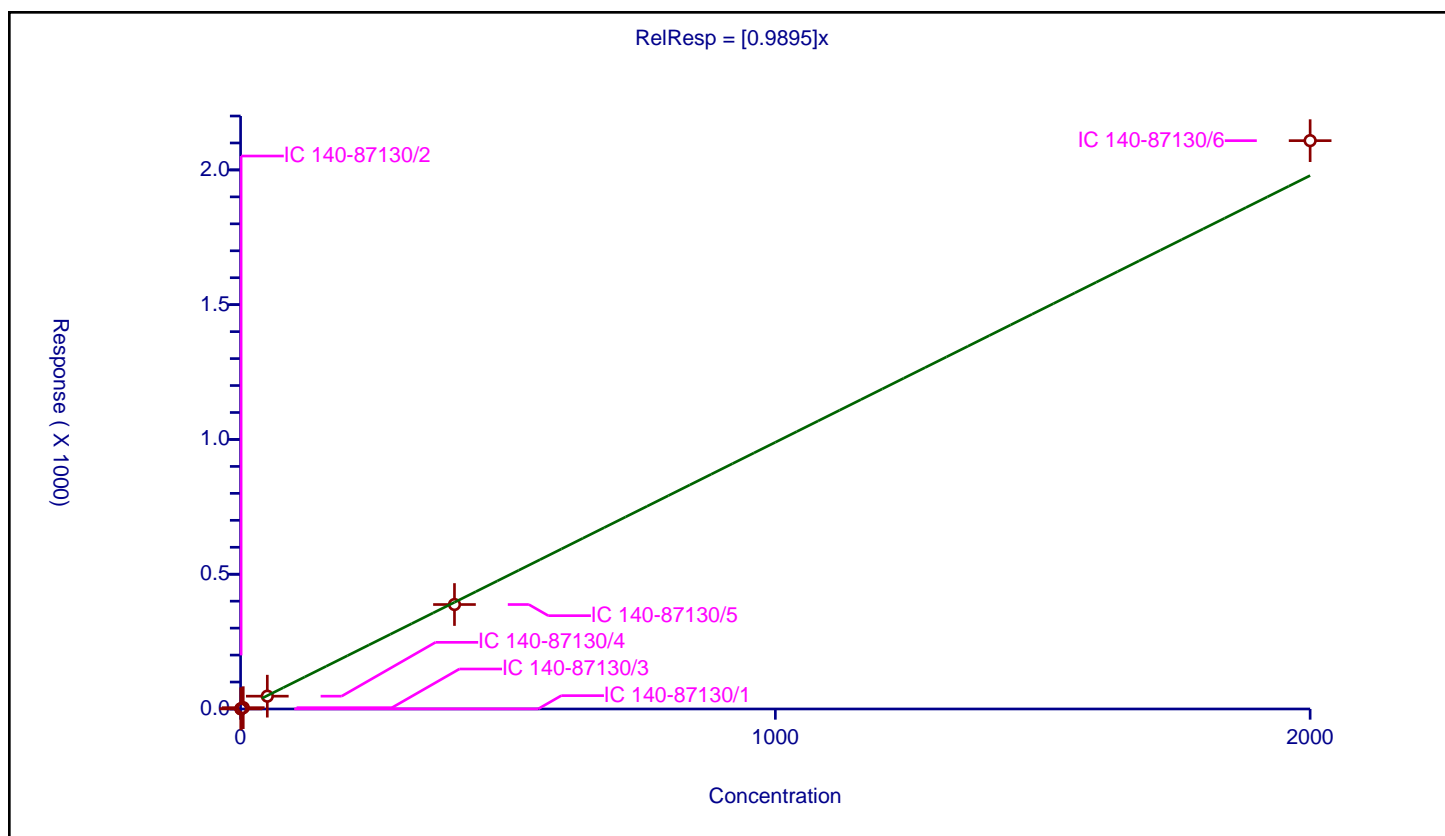
## Curve Coefficients

Intercept: 0  
Slope: 0.9895

## Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.492412	100.0	6307321.0	0.984824	Y
2	IC 140-87130/2	1.0	0.995142	100.0	5566942.0	0.995142	Y
3	IC 140-87130/3	5.0	4.912643	100.0	5708638.0	0.982529	Y
4	IC 140-87130/4	50.0	47.570428	100.0	5786925.0	0.951409	Y
5	IC 140-87130/5	400.0	387.571947	100.0	5892178.0	0.96893	Y
6	IC 140-87130/6	2000.0	2108.613131	100.0	6037909.0	1.054307	Y



# Calibration

/ PCB-153

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

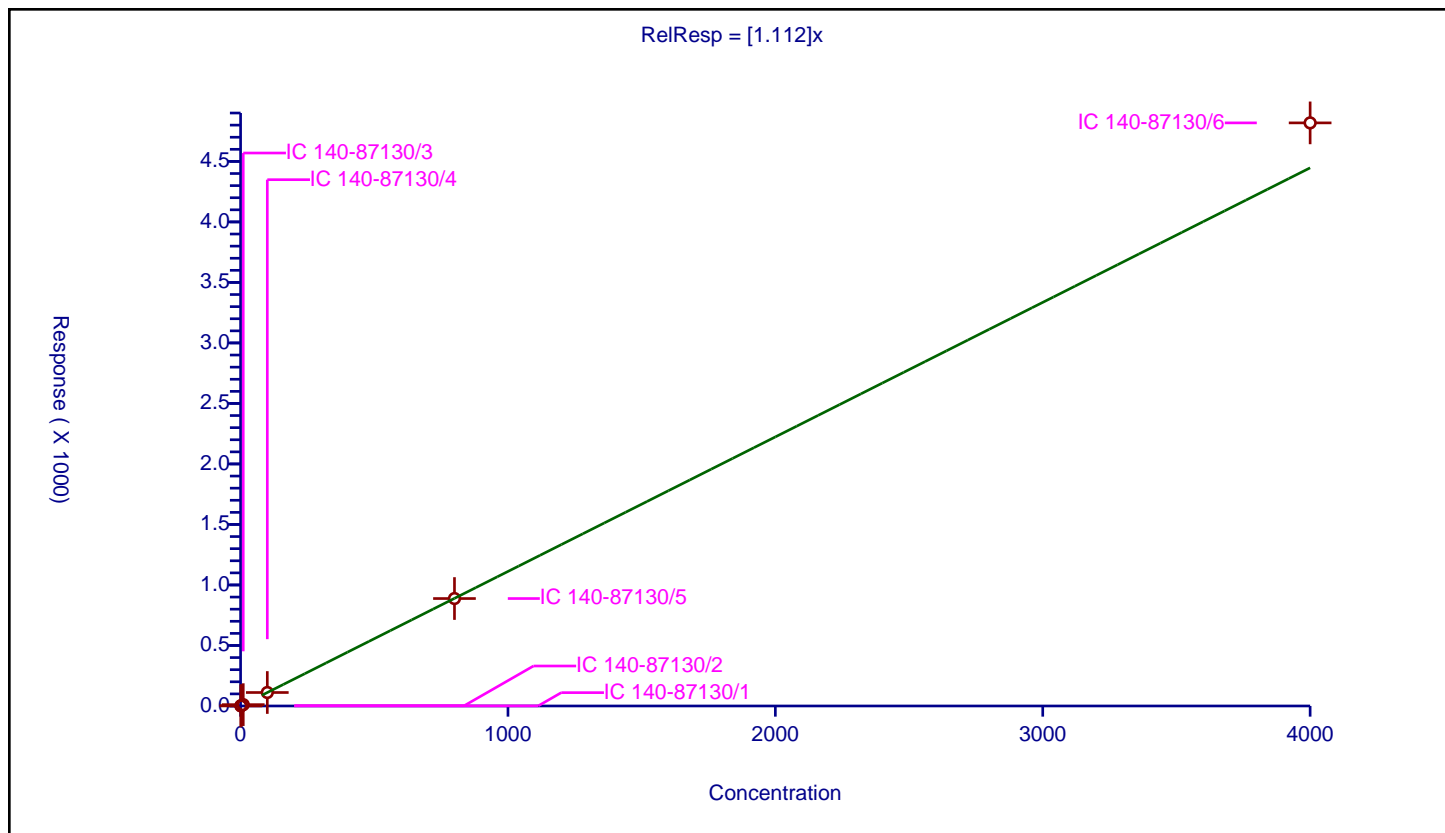
## Curve Coefficients

Intercept: 0  
Slope: 1.112

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.08579	200.0	17145311.0	1.08579	Y
2	IC 140-87130/2	2.0	2.076199	200.0	16075823.0	1.038099	Y
3	IC 140-87130/3	10.0	11.172444	200.0	15994835.0	1.117244	Y
4	IC 140-87130/4	100.0	111.466549	200.0	16048883.0	1.114665	Y
5	IC 140-87130/5	800.0	887.904587	200.0	16797326.0	1.109881	Y
6	IC 140-87130/6	4000.0	4818.405545	200.0	18003846.0	1.204601	Y



# Calibration

/ PCB-153/168

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

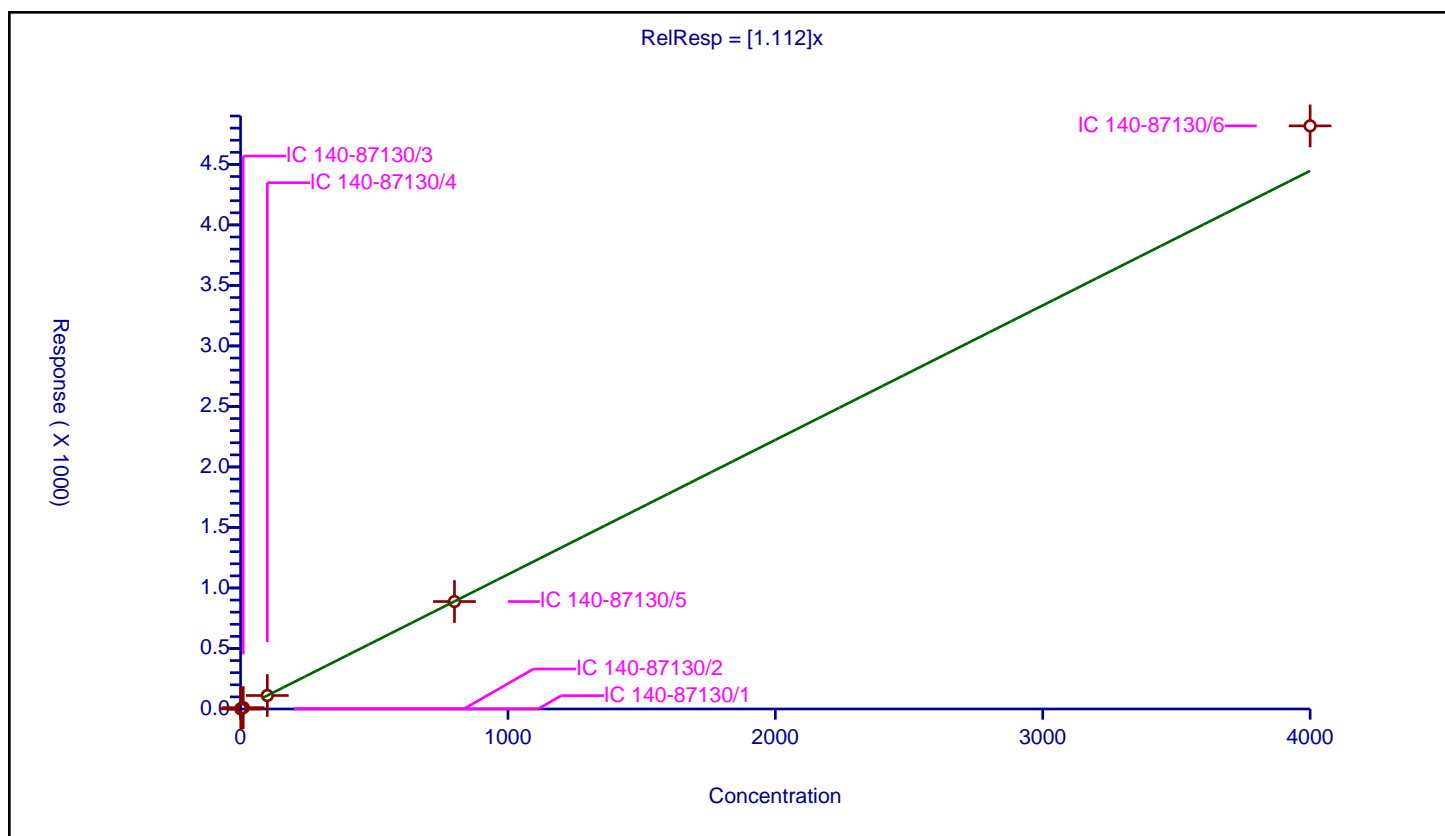
## Curve Coefficients

Intercept: 0  
Slope: 1.112

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.08579	200.0	17145311.0	1.08579	Y
2	IC 140-87130/2	2.0	2.076199	200.0	16075823.0	1.038099	Y
3	IC 140-87130/3	10.0	11.172444	200.0	15994835.0	1.117244	Y
4	IC 140-87130/4	100.0	111.466549	200.0	16048883.0	1.114665	Y
5	IC 140-87130/5	800.0	887.904587	200.0	16797326.0	1.109881	Y
6	IC 140-87130/6	4000.0	4818.405545	200.0	18003846.0	1.204601	Y



# Calibration

/ PCB-153L

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

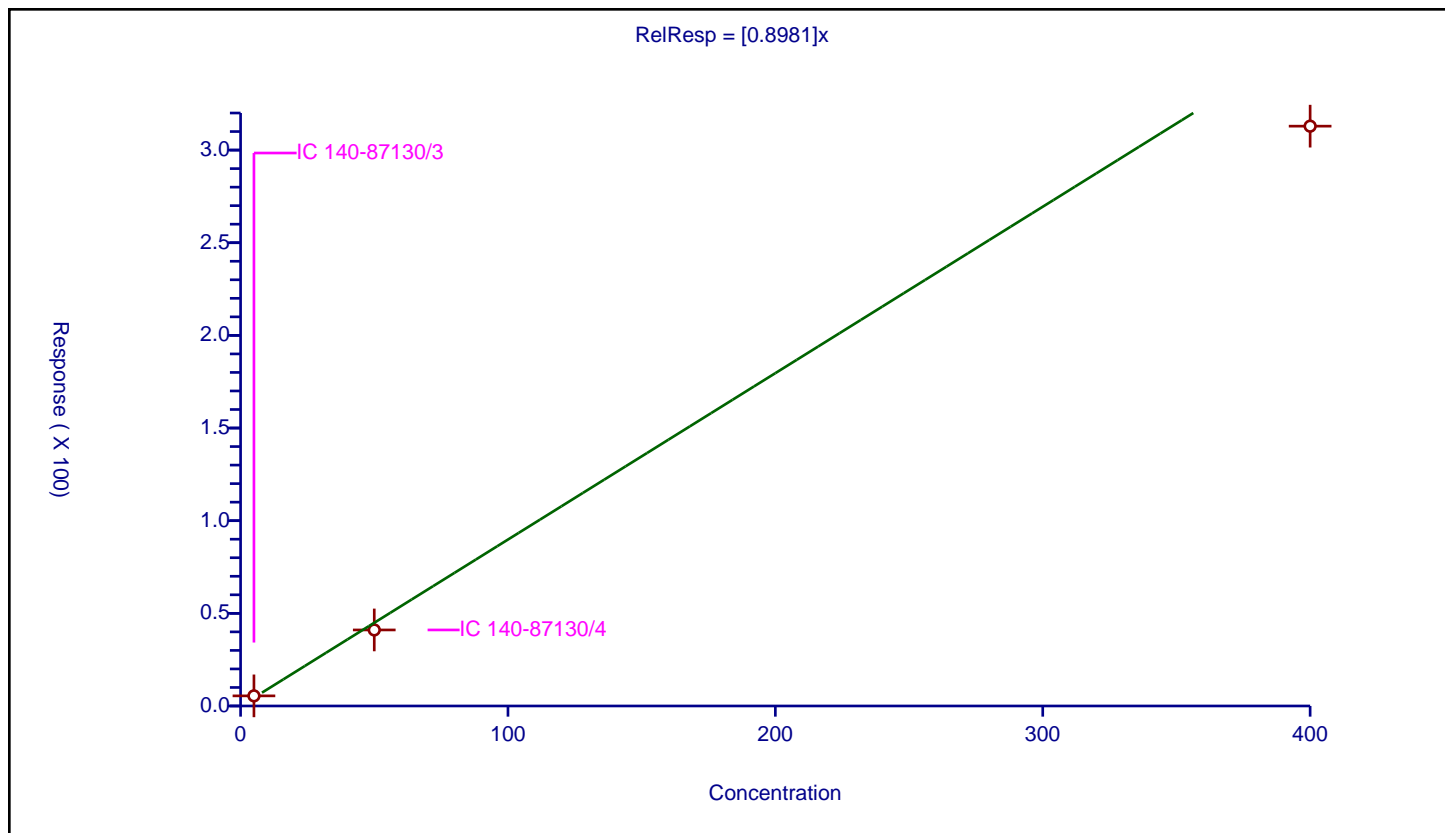
## Curve Coefficients

Intercept: 0  
Slope: 0.8981

## Error Coefficients

Relative Standard Deviation: 18.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	5.456872	100.0	8150383.0	1.091374	Y
2	IC 140-87130/4	50.0	41.031232	100.0	8329121.0	0.820625	Y
3	IC 140-87130/5	400.0	312.906899	100.0	8748546.0	0.782267	Y



# Calibration

/ PCB-154

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

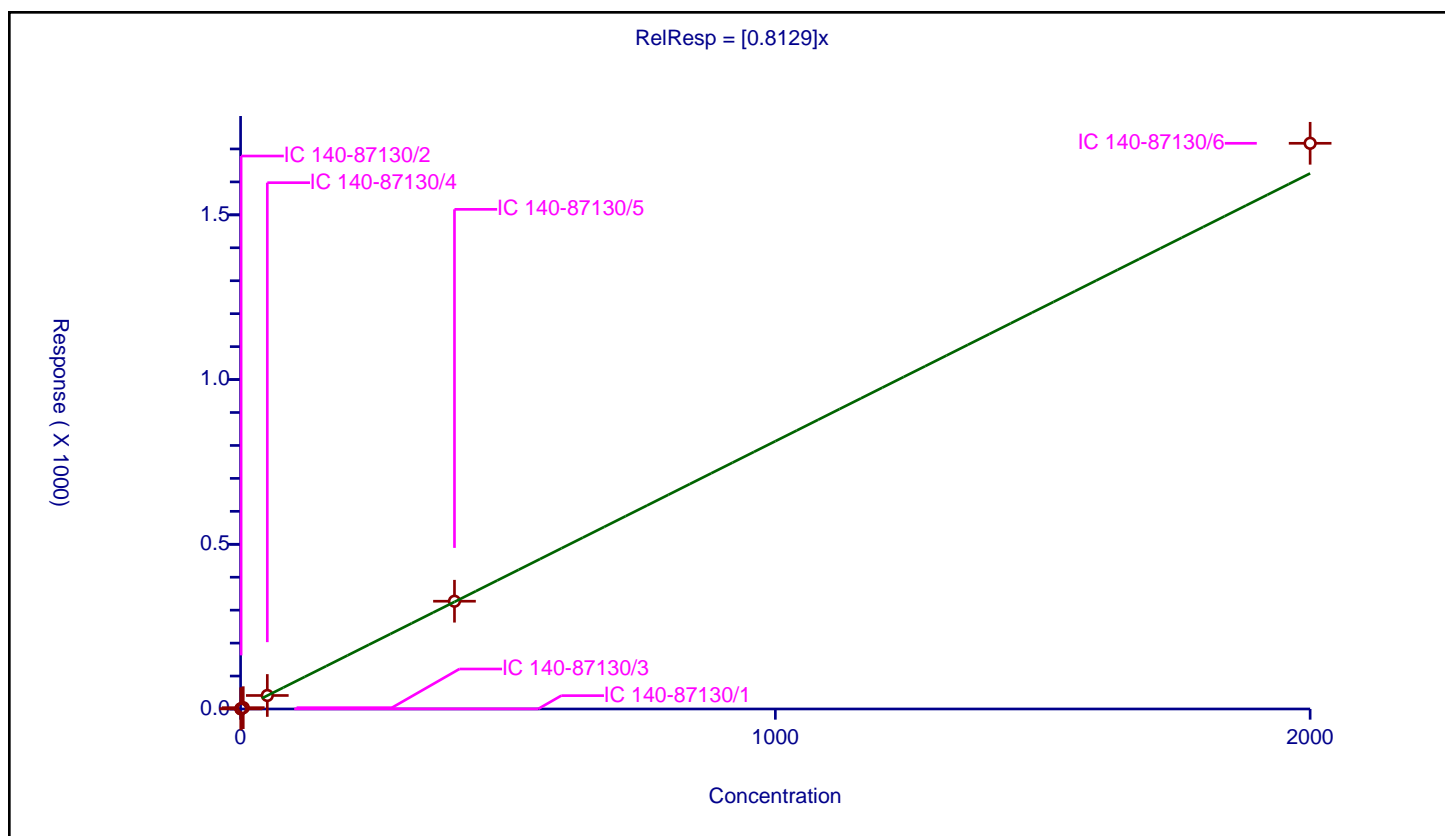
## Curve Coefficients

Intercept: 0  
 Slope: 0.8129

## Error Coefficients

Relative Standard Deviation: 5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.370554	100.0	6307321.0	0.741107	Y
2	IC 140-87130/2	1.0	0.840497	100.0	5566942.0	0.840497	Y
3	IC 140-87130/3	5.0	3.997836	100.0	5708638.0	0.799567	Y
4	IC 140-87130/4	50.0	40.980227	100.0	5786925.0	0.819605	Y
5	IC 140-87130/5	400.0	327.187315	100.0	5892178.0	0.817968	Y
6	IC 140-87130/6	2000.0	1717.150606	100.0	6037909.0	0.858575	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

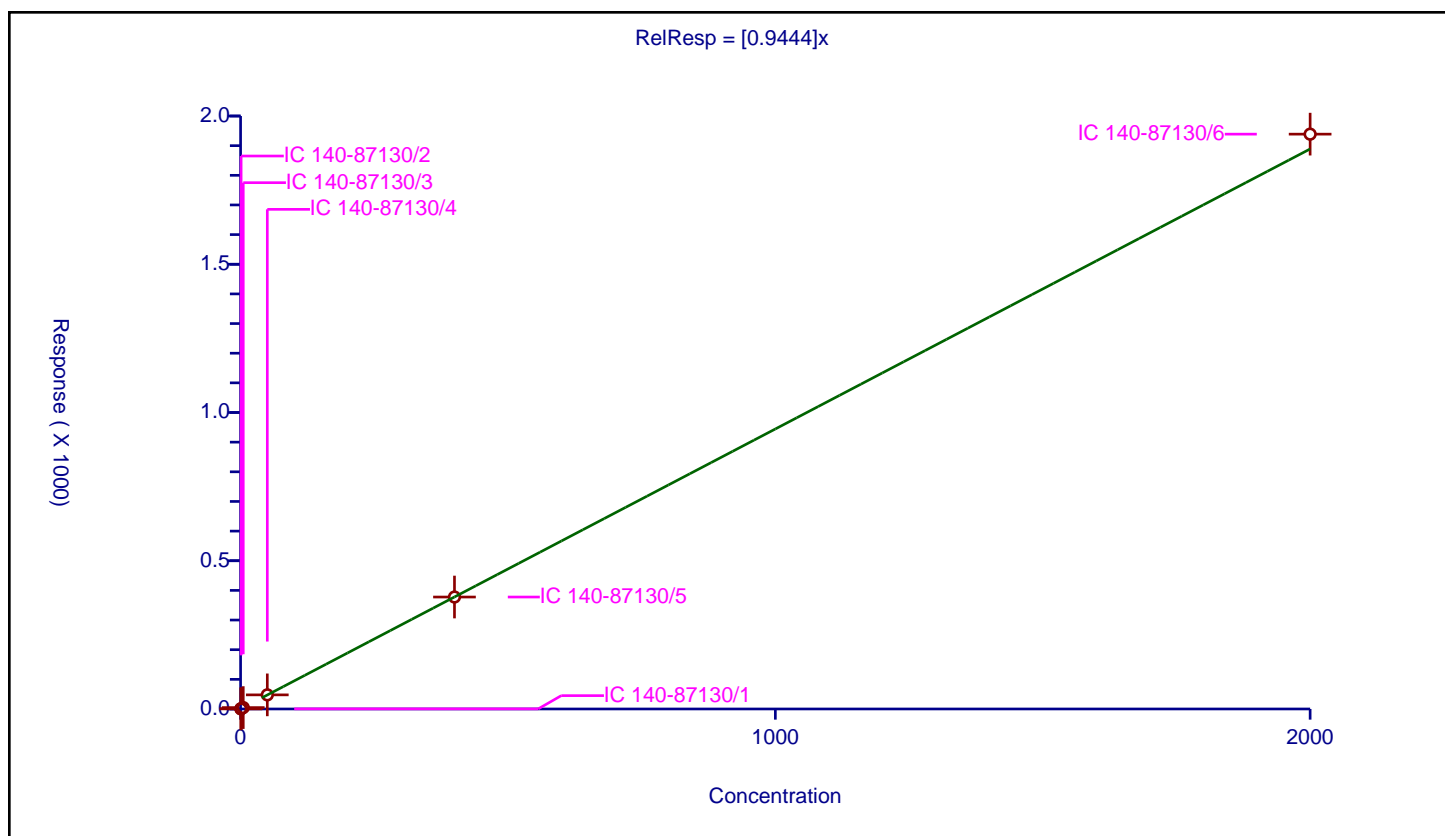
## Curve Coefficients

Intercept: 0  
Slope: 0.9444

## Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.444563	100.0	6307321.0	0.889126	Y
2	IC 140-87130/2	1.0	0.965503	100.0	5566942.0	0.965503	Y
3	IC 140-87130/3	5.0	4.727082	100.0	5708638.0	0.945416	Y
4	IC 140-87130/4	50.0	47.645269	100.0	5786925.0	0.952905	Y
5	IC 140-87130/5	400.0	377.648639	100.0	5892178.0	0.944122	Y
6	IC 140-87130/6	2000.0	1938.79656	100.0	6037909.0	0.969398	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

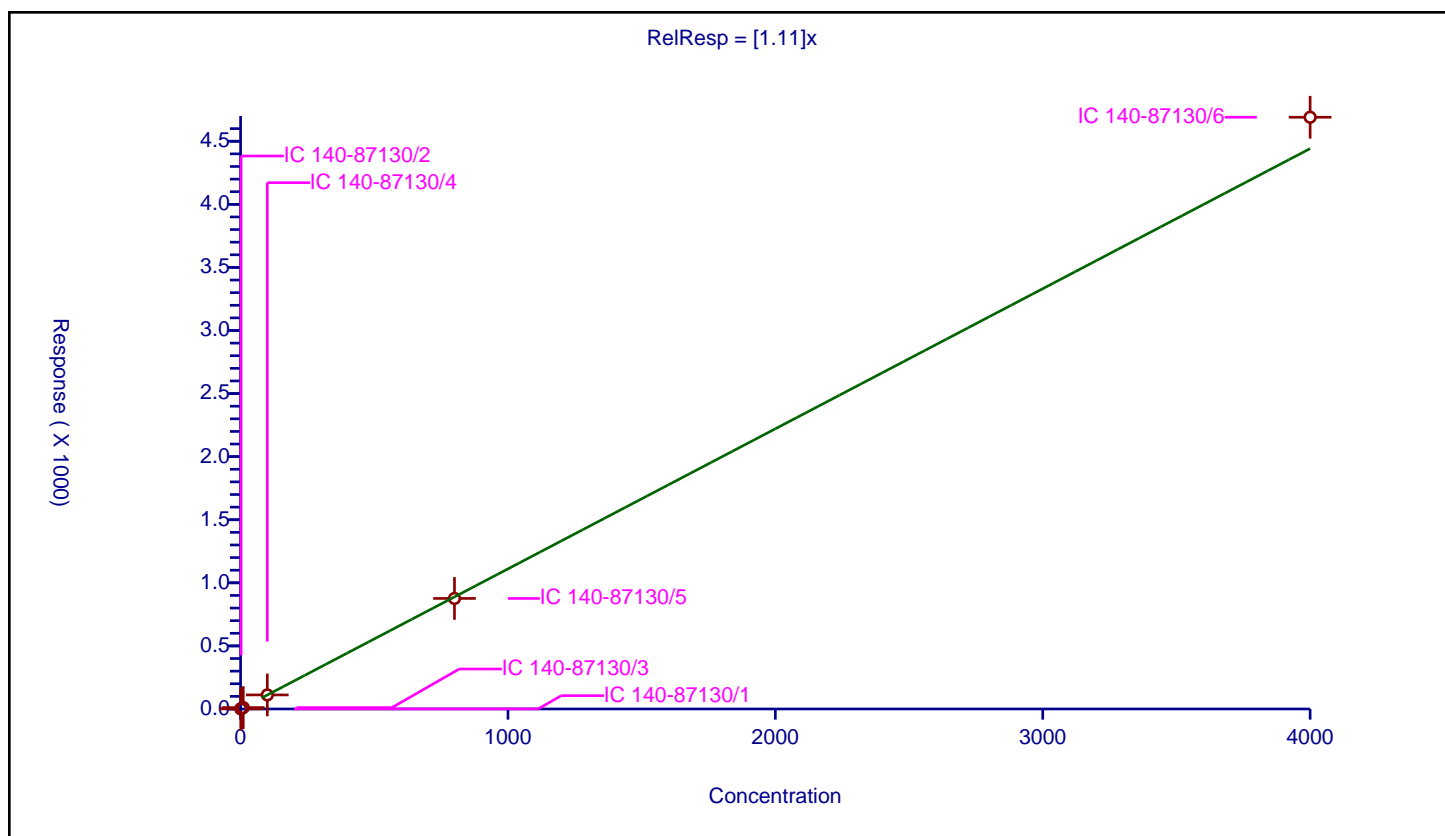
## Curve Coefficients

Intercept: 0  
Slope: 1.11

## Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.031781	200.0	17145311.0	1.031781	Y
2	IC 140-87130/2	2.0	2.281252	200.0	16075823.0	1.140626	Y
3	IC 140-87130/3	10.0	11.084466	200.0	15994835.0	1.108447	Y
4	IC 140-87130/4	100.0	111.389758	200.0	16048883.0	1.113898	Y
5	IC 140-87130/5	800.0	876.153157	200.0	16797326.0	1.095191	Y
6	IC 140-87130/6	4000.0	4690.374323	200.0	18003846.0	1.172594	Y



# Calibration

/ PCB-156/157

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

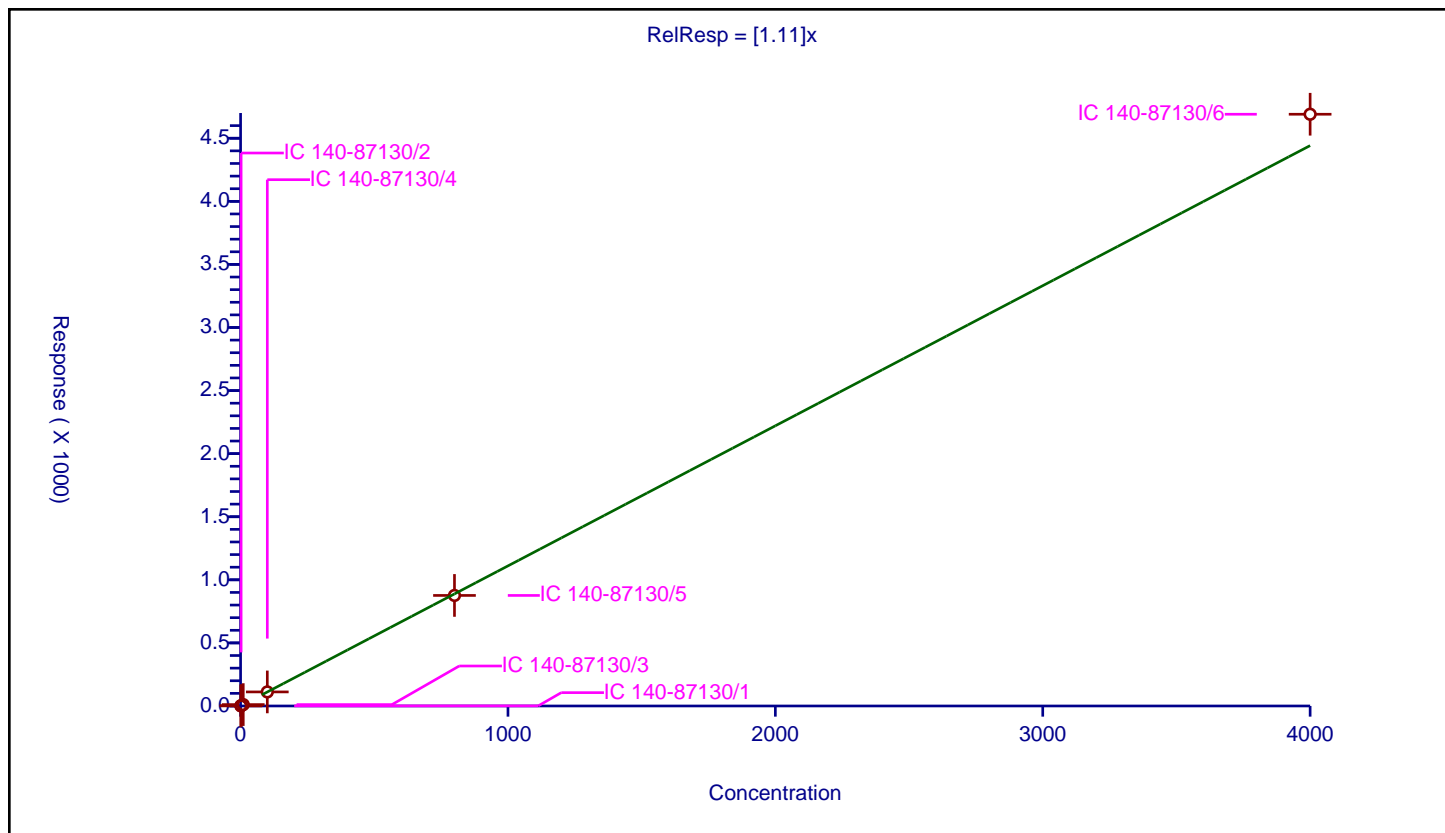
## Curve Coefficients

Intercept: 0  
Slope: 1.11

## Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.031781	200.0	17145311.0	1.031781	Y
2	IC 140-87130/2	2.0	2.281252	200.0	16075823.0	1.140626	Y
3	IC 140-87130/3	10.0	11.084466	200.0	15994835.0	1.108447	Y
4	IC 140-87130/4	100.0	111.389758	200.0	16048883.0	1.113898	Y
5	IC 140-87130/5	800.0	876.153157	200.0	16797326.0	1.095191	Y
6	IC 140-87130/6	4000.0	4690.374323	200.0	18003846.0	1.172594	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

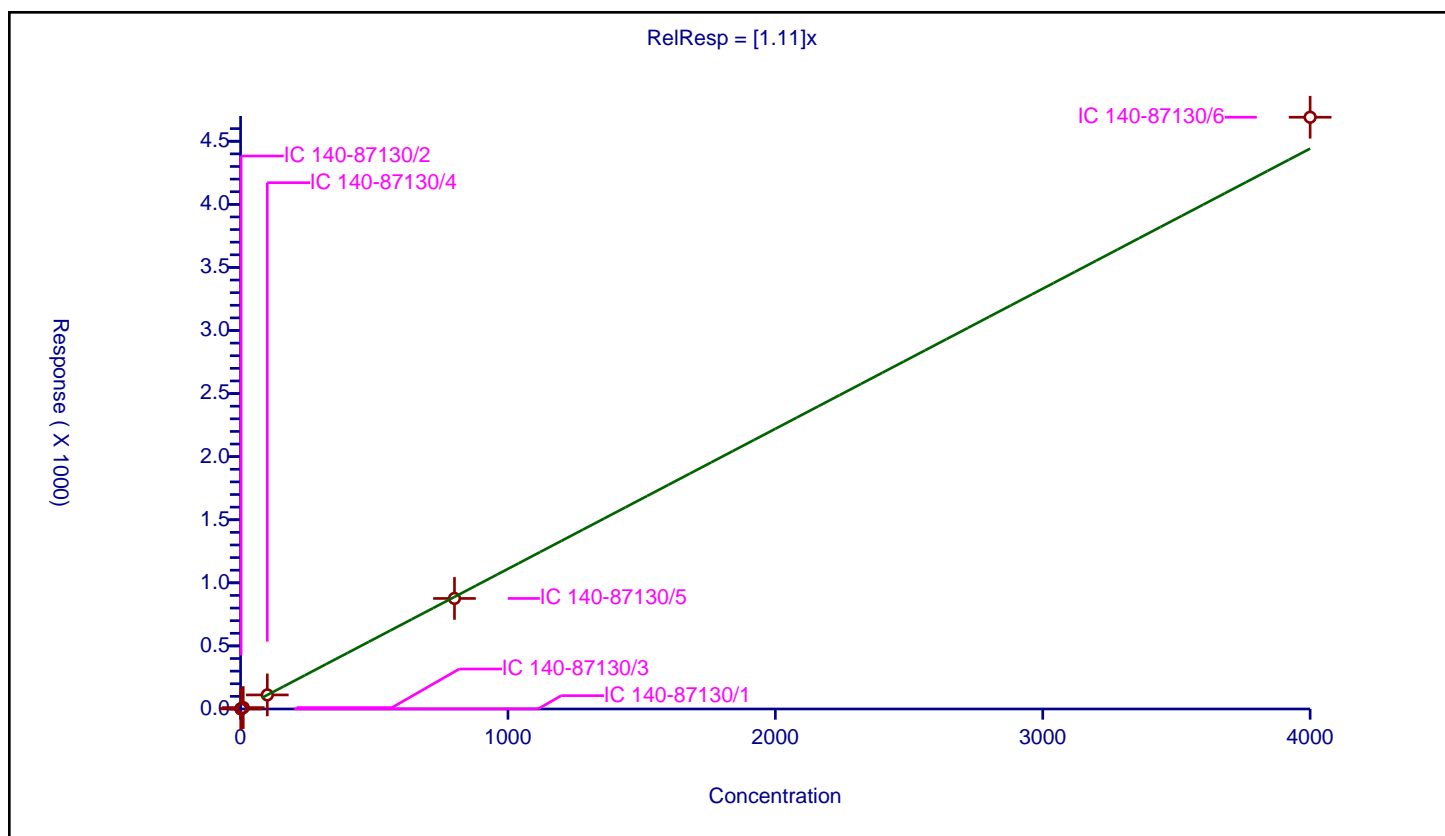
## Curve Coefficients

Intercept: 0  
Slope: 1.11

## Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.031781	200.0	17145311.0	1.031781	Y
2	IC 140-87130/2	2.0	2.281252	200.0	16075823.0	1.140626	Y
3	IC 140-87130/3	10.0	11.084466	200.0	15994835.0	1.108447	Y
4	IC 140-87130/4	100.0	111.389758	200.0	16048883.0	1.113898	Y
5	IC 140-87130/5	800.0	876.153157	200.0	16797326.0	1.095191	Y
6	IC 140-87130/6	4000.0	4690.374323	200.0	18003846.0	1.172594	Y



# Calibration

/ PCB-158

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

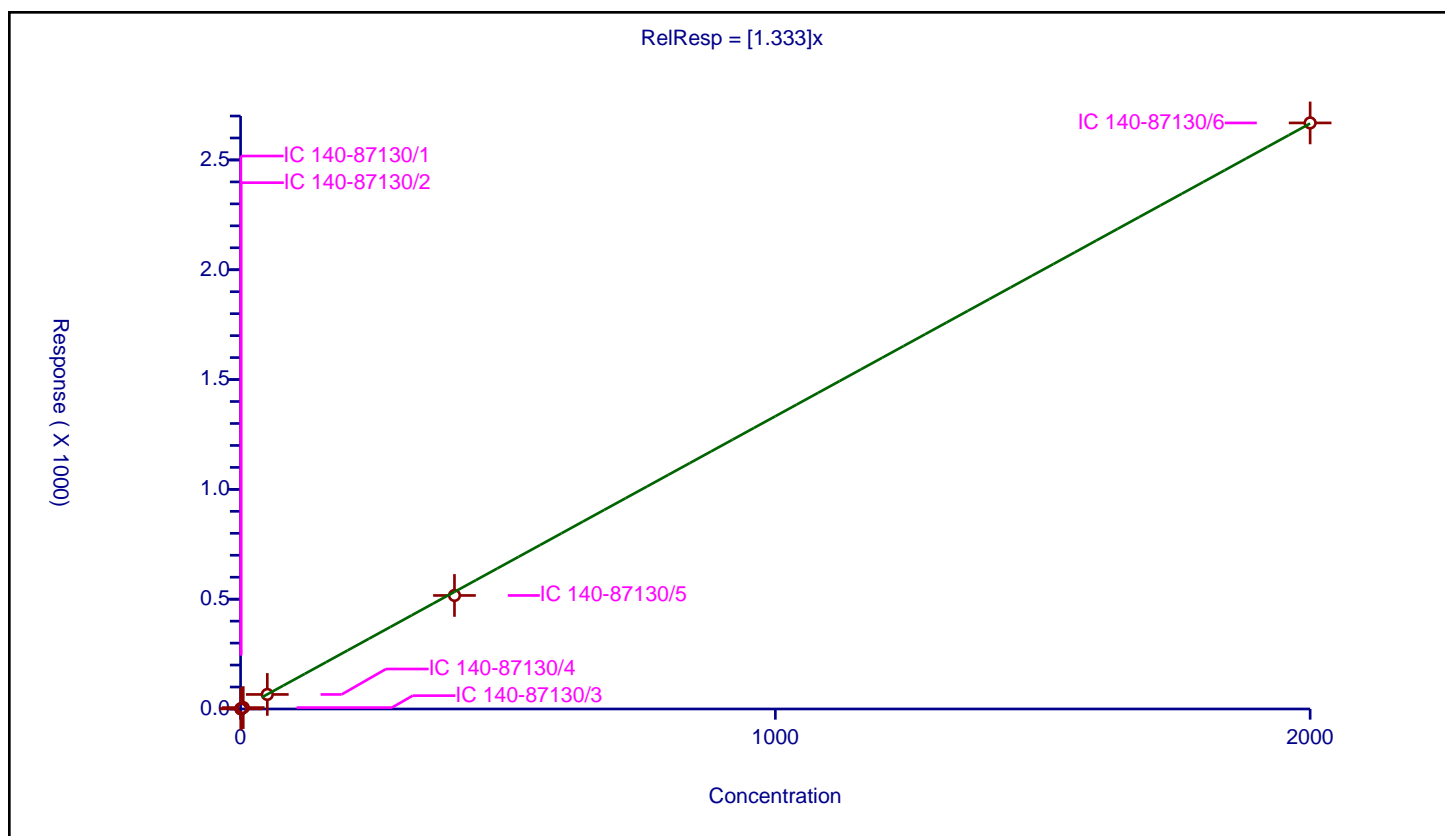
## Curve Coefficients

Intercept: 0  
 Slope: 1.333

## Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.703294	200.0	17145311.0	1.406589	Y
2	IC 140-87130/2	1.0	1.363426	200.0	16075823.0	1.363426	Y
3	IC 140-87130/3	5.0	6.376583	200.0	15994835.0	1.275317	Y
4	IC 140-87130/4	50.0	66.29148	200.0	16048883.0	1.32583	Y
5	IC 140-87130/5	400.0	516.99842	200.0	16797326.0	1.292496	Y
6	IC 140-87130/6	2000.0	2668.60553	200.0	18003846.0	1.334303	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

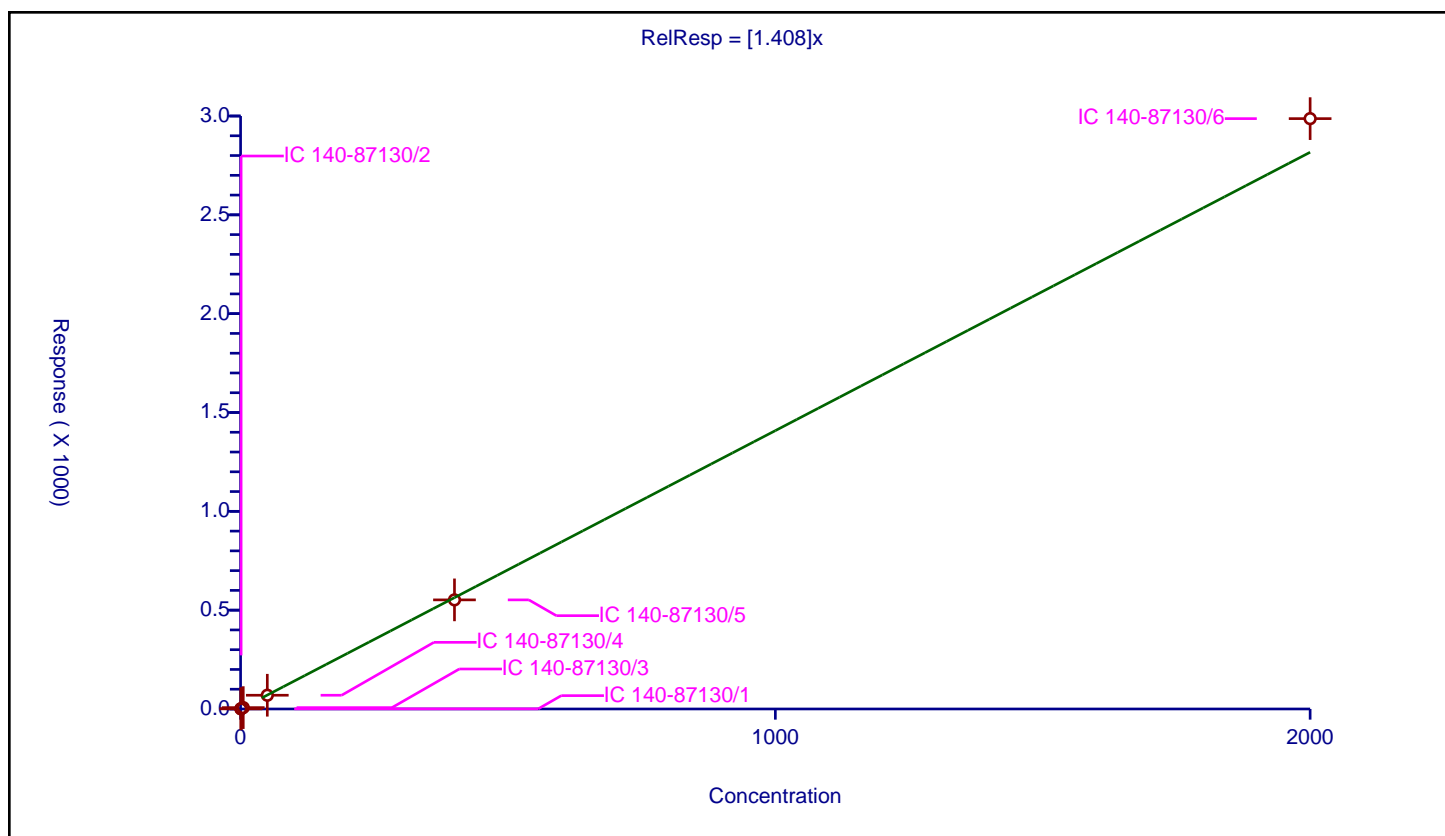
## Curve Coefficients

Intercept: 0  
Slope: 1.408

## Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.681014	200.0	17145311.0	1.362028	Y
2	IC 140-87130/2	1.0	1.428816	200.0	16075823.0	1.428816	Y
3	IC 140-87130/3	5.0	6.978053	200.0	15994835.0	1.395611	Y
4	IC 140-87130/4	50.0	69.519368	200.0	16048883.0	1.390387	Y
5	IC 140-87130/5	400.0	551.962318	200.0	16797326.0	1.379906	Y
6	IC 140-87130/6	2000.0	2986.779802	200.0	18003846.0	1.49339	Y



**/ PCB-159L**

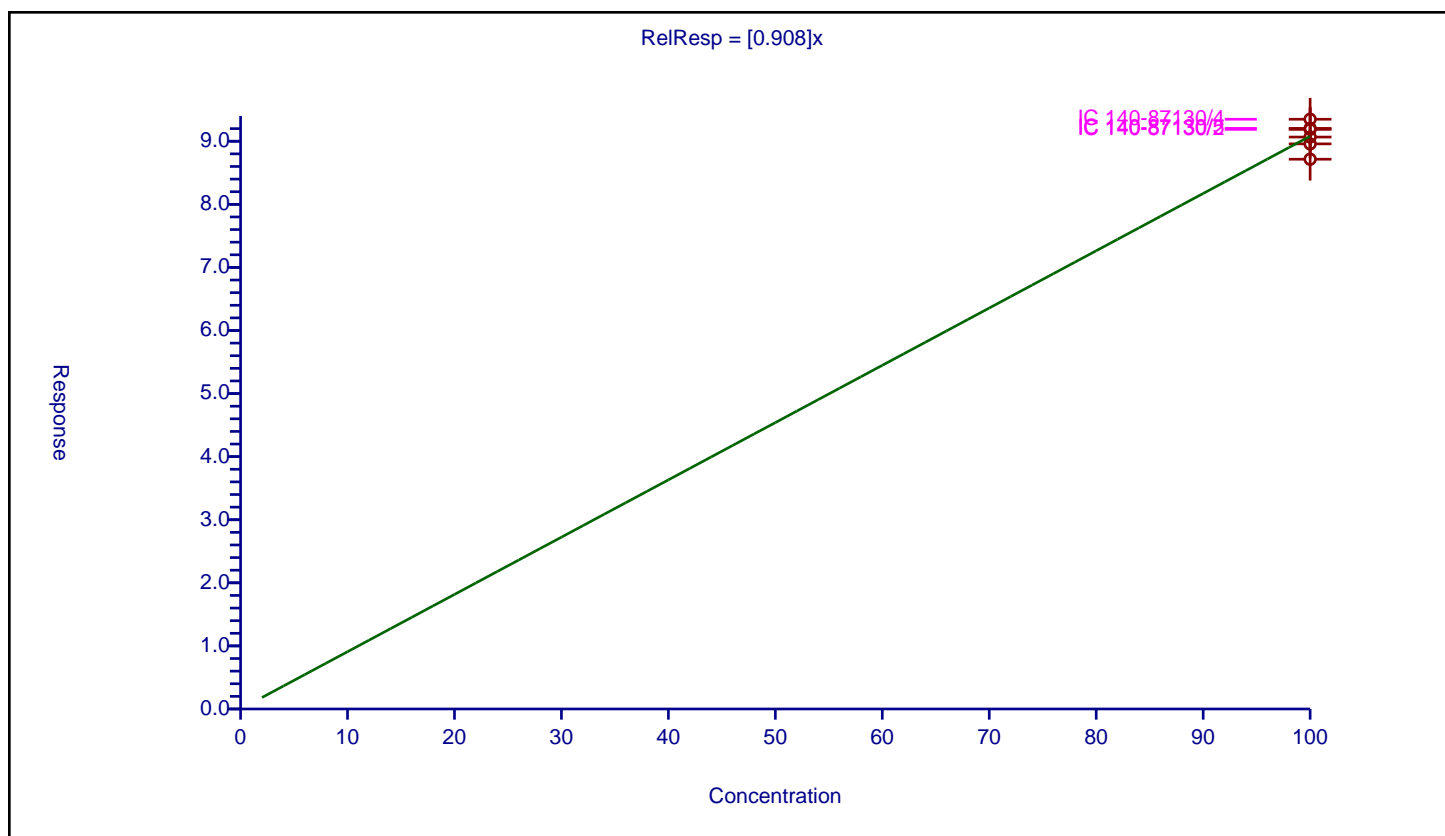
## Curve Coefficients

<b>Intercept:</b>	0
<b>Slope:</b>	0.908

### Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	100.0	87.152373	100.0	9105316.0	0.871524	Y
2	IC 140-87130/2	100.0	91.879793	100.0	8343026.0	0.918798	Y
3	IC 140-87130/3	100.0	89.580502	100.0	8150383.0	0.895805	Y
4	IC 140-87130/4	100.0	93.486792	100.0	8329121.0	0.934868	Y
5	IC 140-87130/5	100.0	92.037683	100.0	8748546.0	0.920377	Y
6	IC 140-87130/6	100.0	90.665672	100.0	9296213.0	0.906657	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

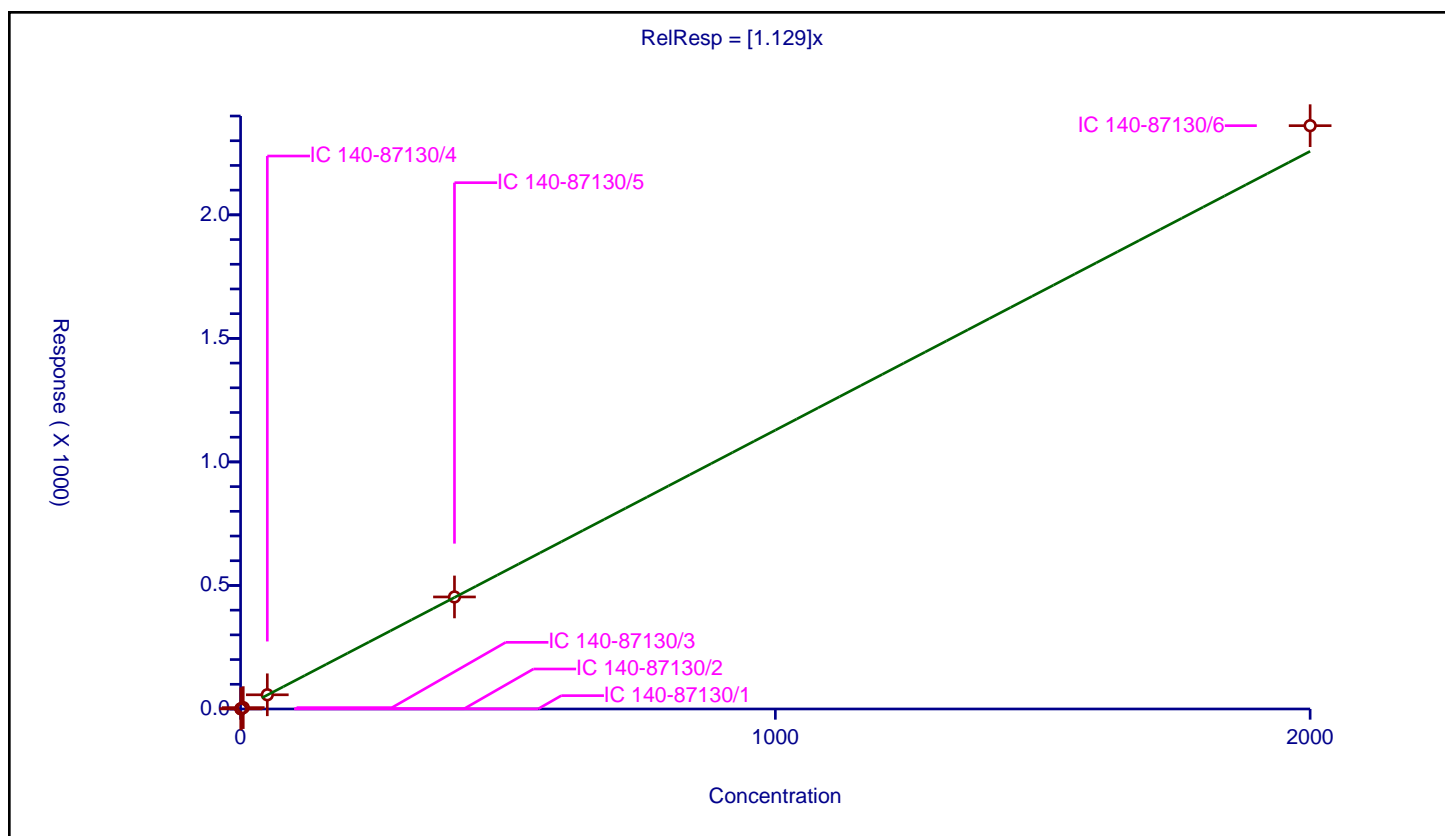
## Curve Coefficients

Intercept: 0  
Slope: 1.129

## Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.563663	100.0	3711790.0	1.127327	Y
2	IC 140-87130/2	1.0	1.063131	100.0	3424036.0	1.063131	Y
3	IC 140-87130/3	5.0	5.582269	100.0	3389482.0	1.116454	Y
4	IC 140-87130/4	50.0	57.525798	100.0	3406868.0	1.150516	Y
5	IC 140-87130/5	400.0	453.425121	100.0	3537933.0	1.133563	Y
6	IC 140-87130/6	2000.0	2360.941314	100.0	3634856.0	1.180471	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

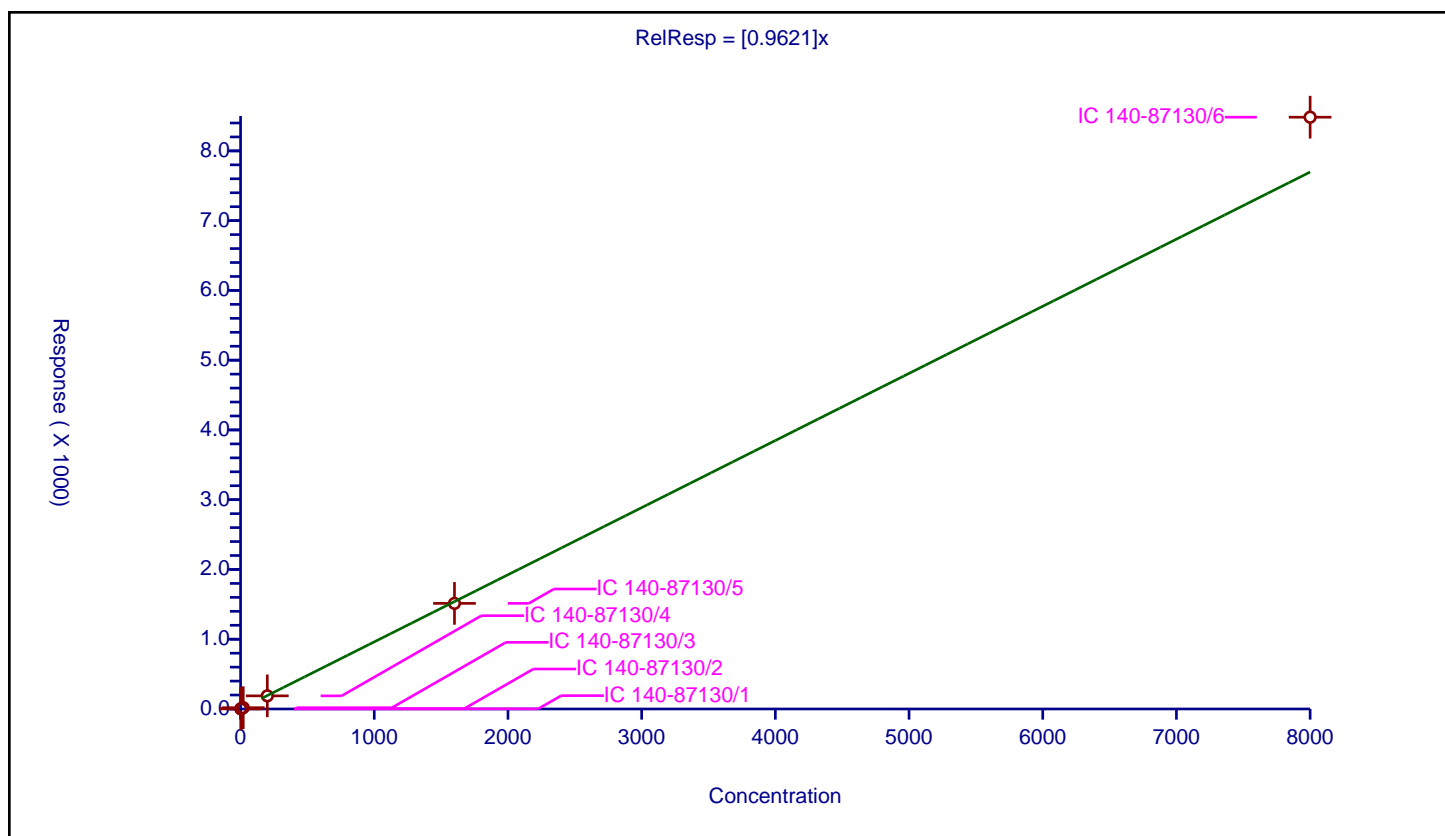
## Curve Coefficients

Intercept: 0  
Slope: 0.9621

## Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

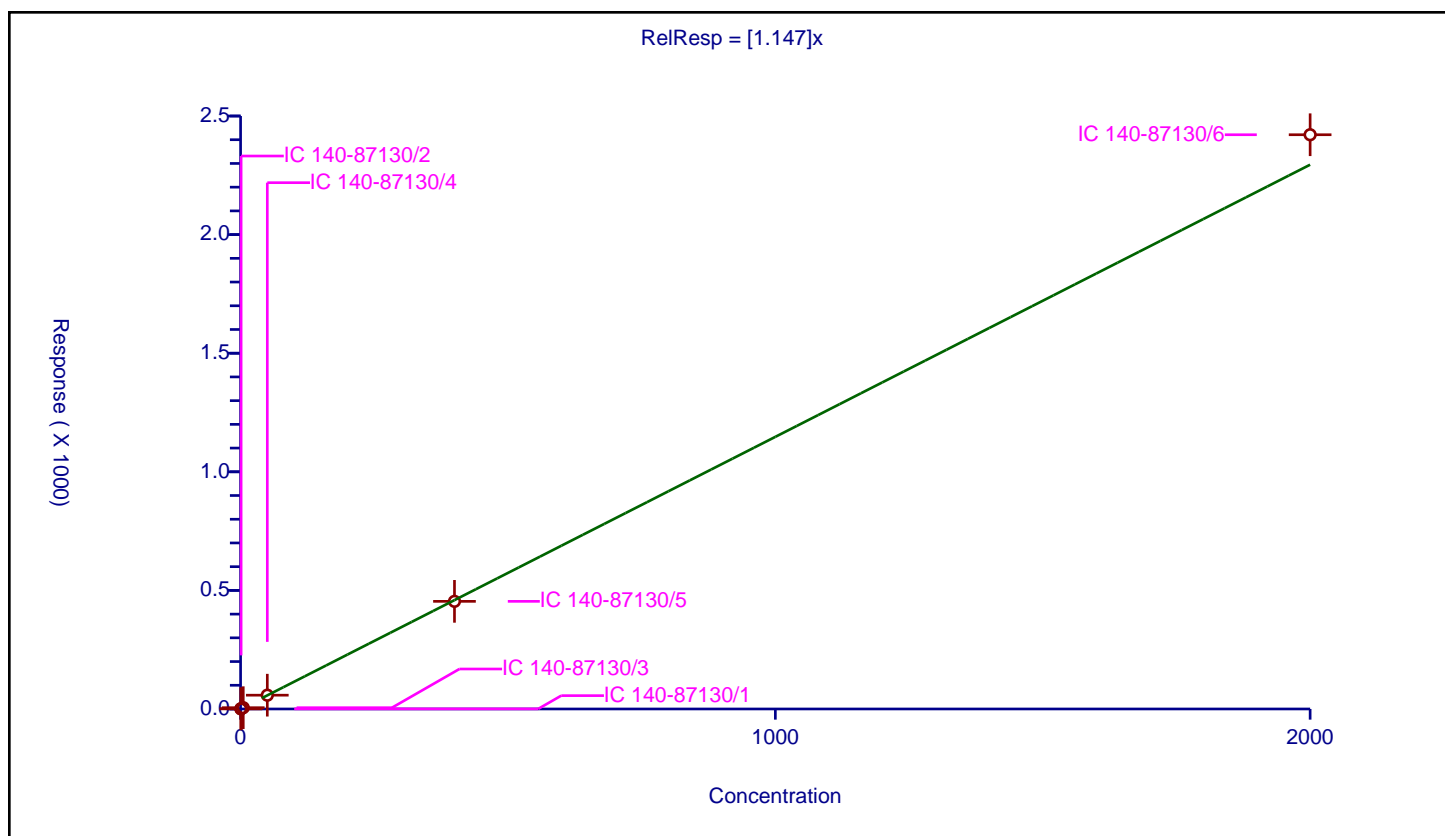
## Curve Coefficients

Intercept: 0  
Slope: 1.147

## Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.547625	200.0	17145311.0	1.09525	Y
2	IC 140-87130/2	1.0	1.183404	200.0	16075823.0	1.183404	Y
3	IC 140-87130/3	5.0	5.486896	200.0	15994835.0	1.097379	Y
4	IC 140-87130/4	50.0	58.148246	200.0	16048883.0	1.162965	Y
5	IC 140-87130/5	400.0	453.808231	200.0	16797326.0	1.134521	Y
6	IC 140-87130/6	2000.0	2421.10969	200.0	18003846.0	1.210555	Y



# Calibration

/ PCB-162

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

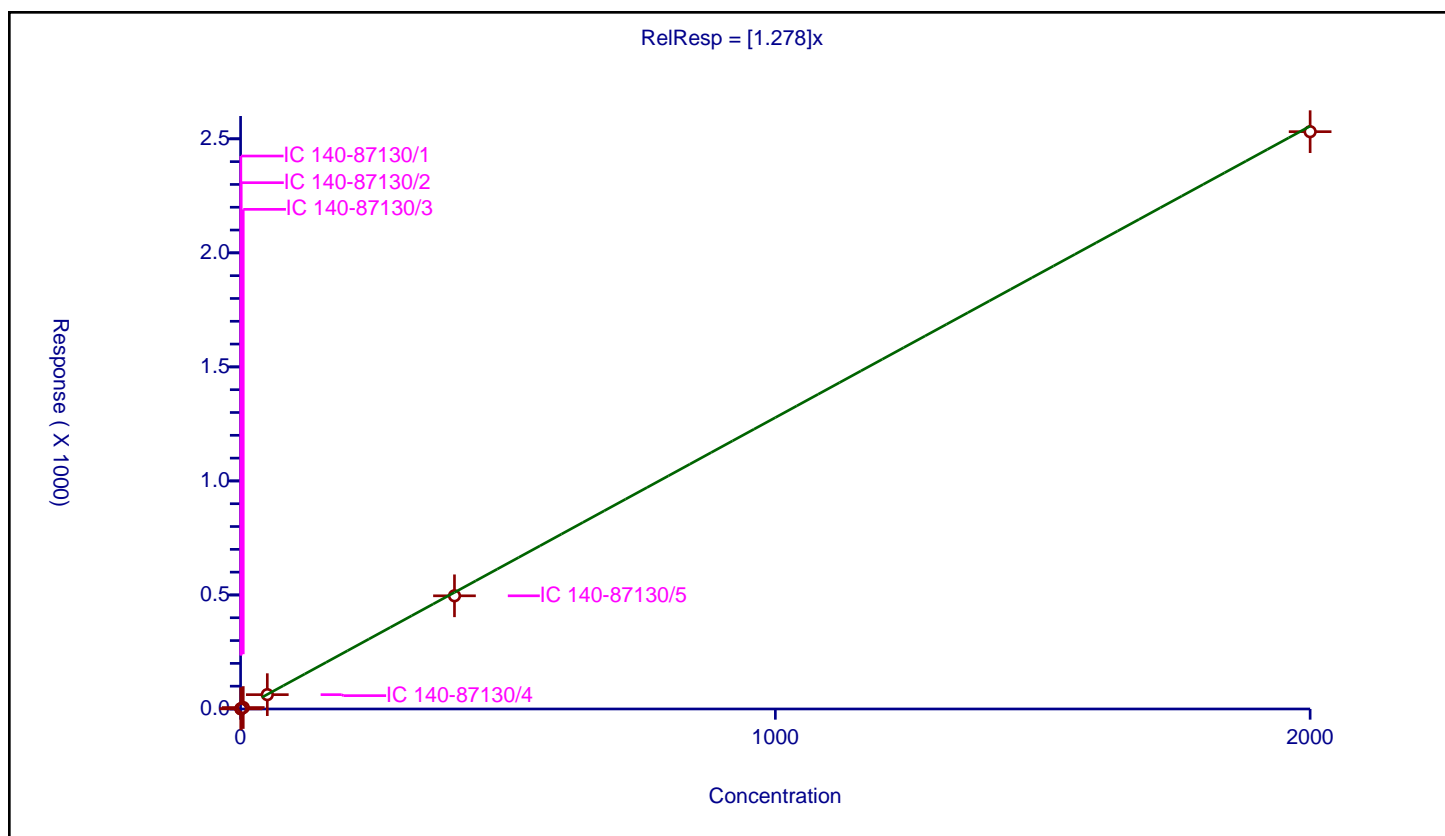
## Curve Coefficients

Intercept: 0  
Slope: 1.278

## Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.645086	200.0	17145311.0	1.290172	Y
2	IC 140-87130/2	1.0	1.327895	200.0	16075823.0	1.327895	Y
3	IC 140-87130/3	5.0	6.422936	200.0	15994835.0	1.284587	Y
4	IC 140-87130/4	50.0	62.887355	200.0	16048883.0	1.257747	Y
5	IC 140-87130/5	400.0	496.326558	200.0	16797326.0	1.240816	Y
6	IC 140-87130/6	2000.0	2531.405701	200.0	18003846.0	1.265703	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

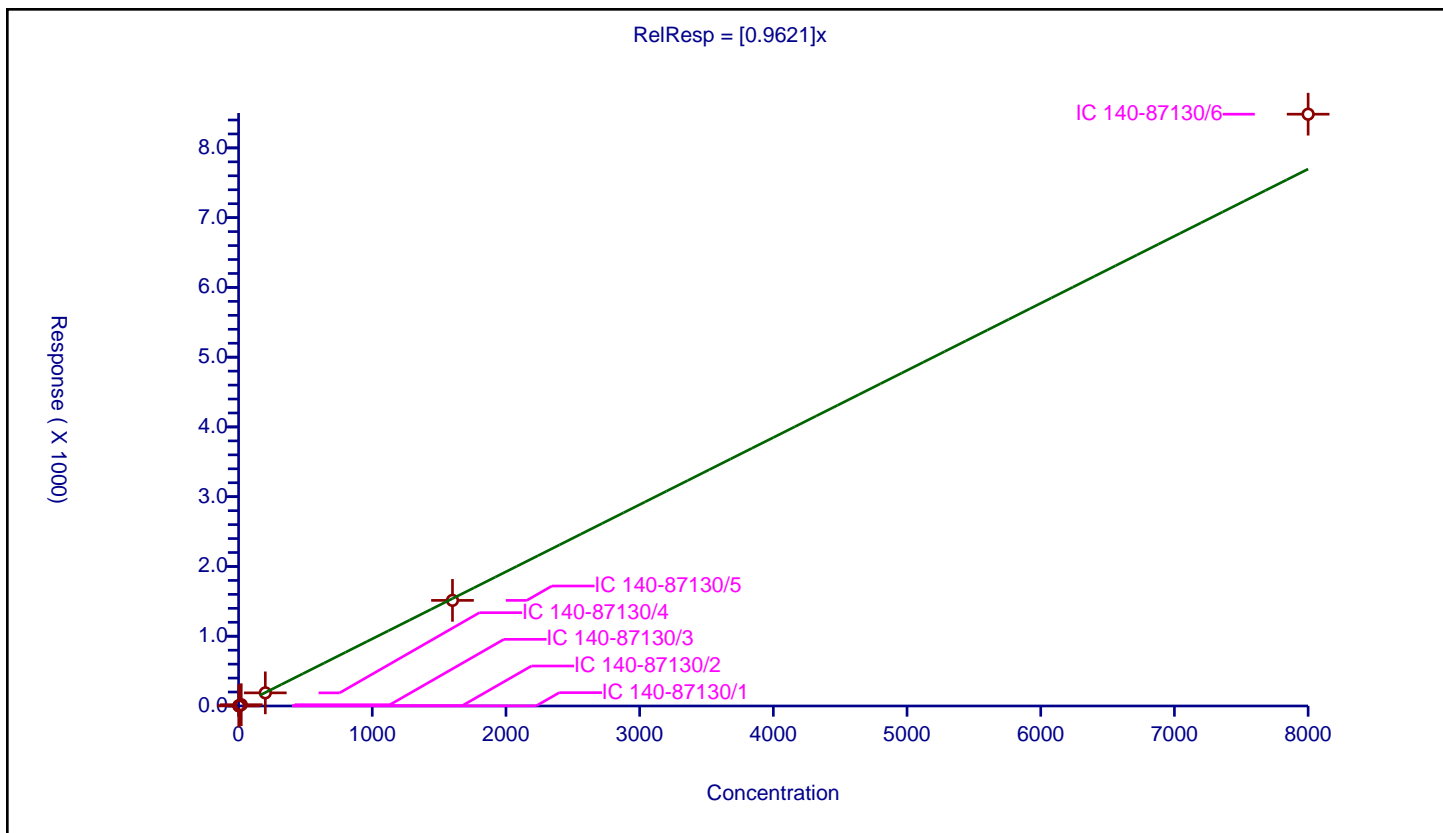
## Curve Coefficients

Intercept: 0  
Slope: 0.9621

## Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	1.921855	200.0	17145311.0	0.960927	Y
2	IC 140-87130/2	4.0	3.770532	200.0	16075823.0	0.942633	Y
3	IC 140-87130/3	20.0	18.421809	200.0	15994835.0	0.92109	Y
4	IC 140-87130/4	200.0	188.299871	200.0	16048883.0	0.941499	Y
5	IC 140-87130/5	1600.0	1513.757356	200.0	16797326.0	0.946098	Y
6	IC 140-87130/6	8000.0	8483.211276	200.0	18003846.0	1.060401	Y



# Calibration

/ PCB-164

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

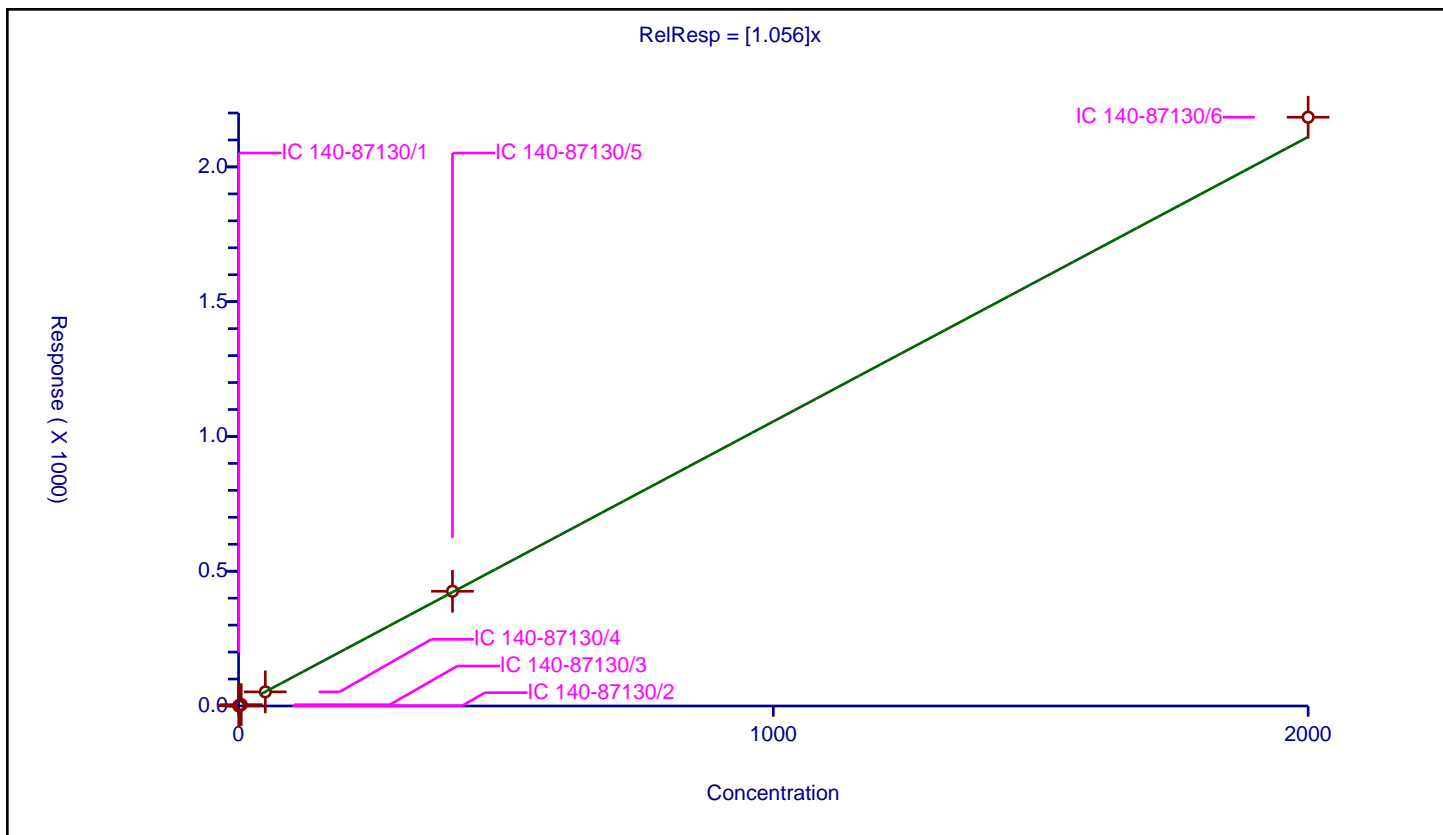
## Curve Coefficients

Intercept: 0  
 Slope: 1.056

## Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.542002	200.0	17145311.0	1.084005	Y
2	IC 140-87130/2	1.0	1.043891	200.0	16075823.0	1.043891	Y
3	IC 140-87130/3	5.0	5.01168	200.0	15994835.0	1.002336	Y
4	IC 140-87130/4	50.0	52.342334	200.0	16048883.0	1.046847	Y
5	IC 140-87130/5	400.0	425.718332	200.0	16797326.0	1.064296	Y
6	IC 140-87130/6	2000.0	2184.389236	200.0	18003846.0	1.092195	Y



# Calibration

/ PCB-165

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

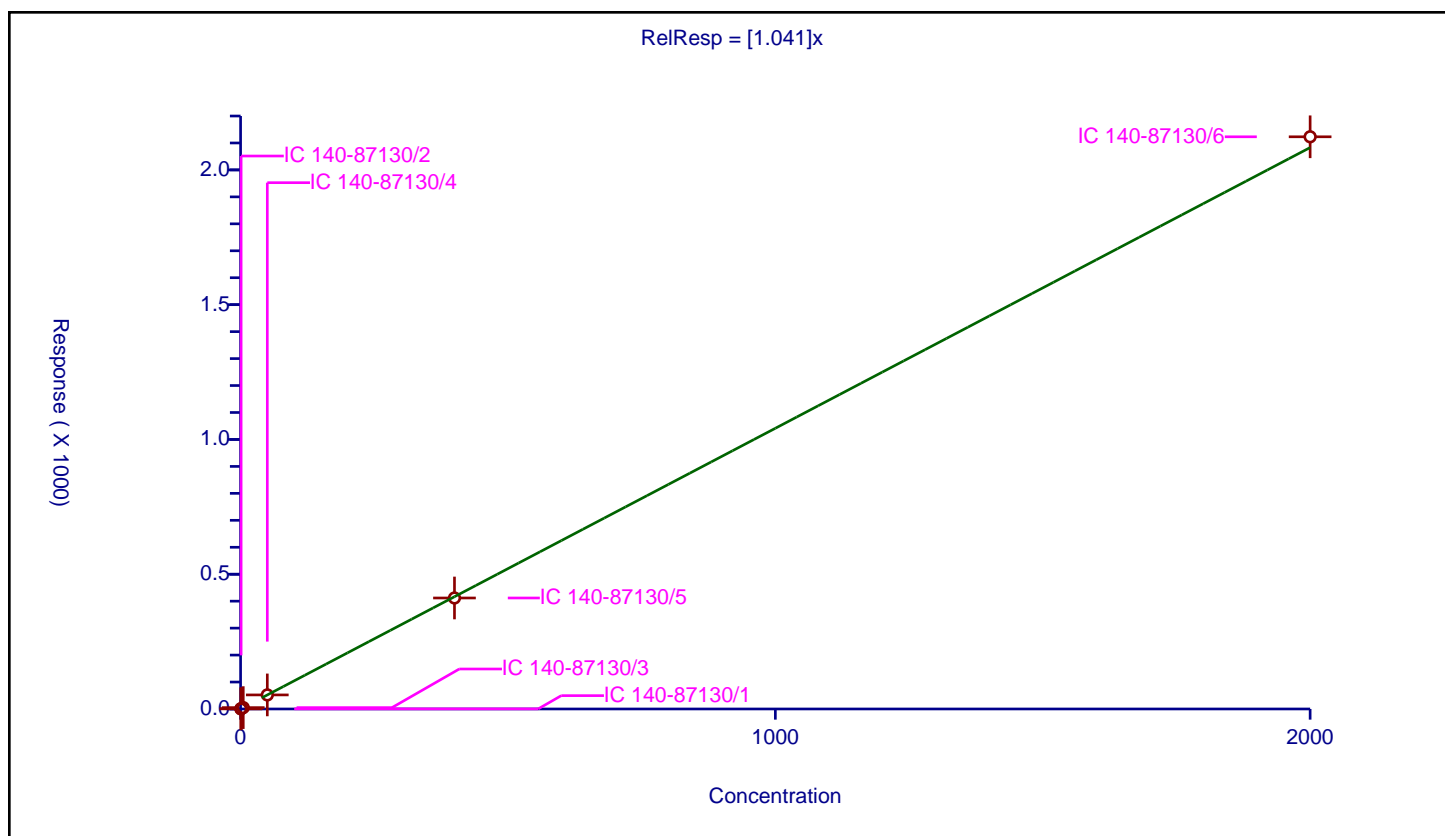
## Curve Coefficients

Intercept: 0  
Slope: 1.041

## Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.492858	200.0	17145311.0	0.985716	Y
2	IC 140-87130/2	1.0	1.107303	200.0	16075823.0	1.107303	Y
3	IC 140-87130/3	5.0	5.106886	200.0	15994835.0	1.021377	Y
4	IC 140-87130/4	50.0	52.176852	200.0	16048883.0	1.043537	Y
5	IC 140-87130/5	400.0	411.833276	200.0	16797326.0	1.029583	Y
6	IC 140-87130/6	2000.0	2122.946042	200.0	18003846.0	1.061473	Y



# Calibration

/ PCB-166

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

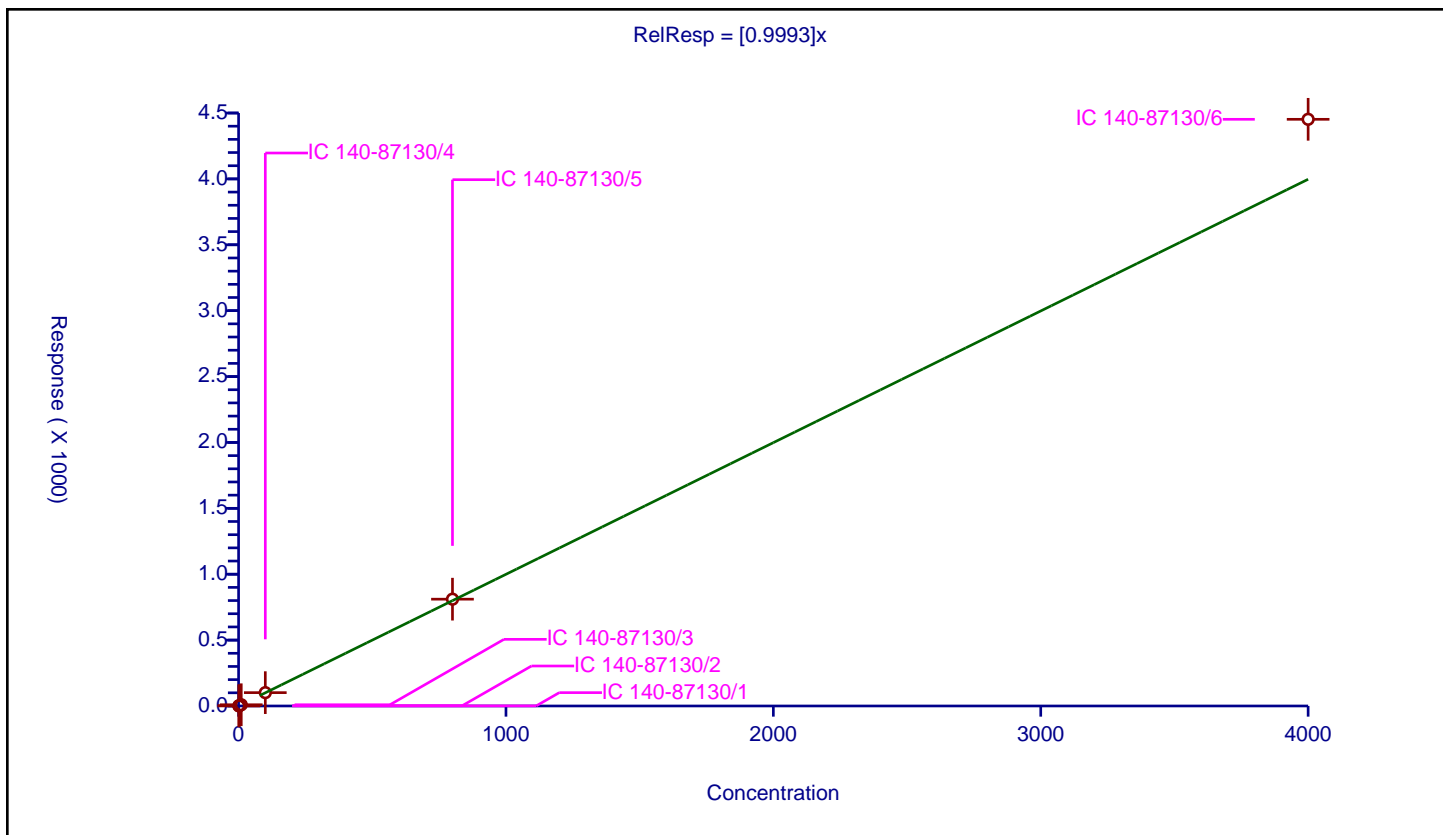
## Curve Coefficients

Intercept: 0  
 Slope: 0.9993

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.978717	200.0	17145311.0	0.978717	Y
2	IC 140-87130/2	2.0	1.885788	200.0	16075823.0	0.942894	Y
3	IC 140-87130/3	10.0	9.351869	200.0	15994835.0	0.935187	Y
4	IC 140-87130/4	100.0	101.248978	200.0	16048883.0	1.01249	Y
5	IC 140-87130/5	800.0	810.572802	200.0	16797326.0	1.013216	Y
6	IC 140-87130/6	4000.0	4452.331241	200.0	18003846.0	1.113083	Y



# Calibration

/ PCB-167

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

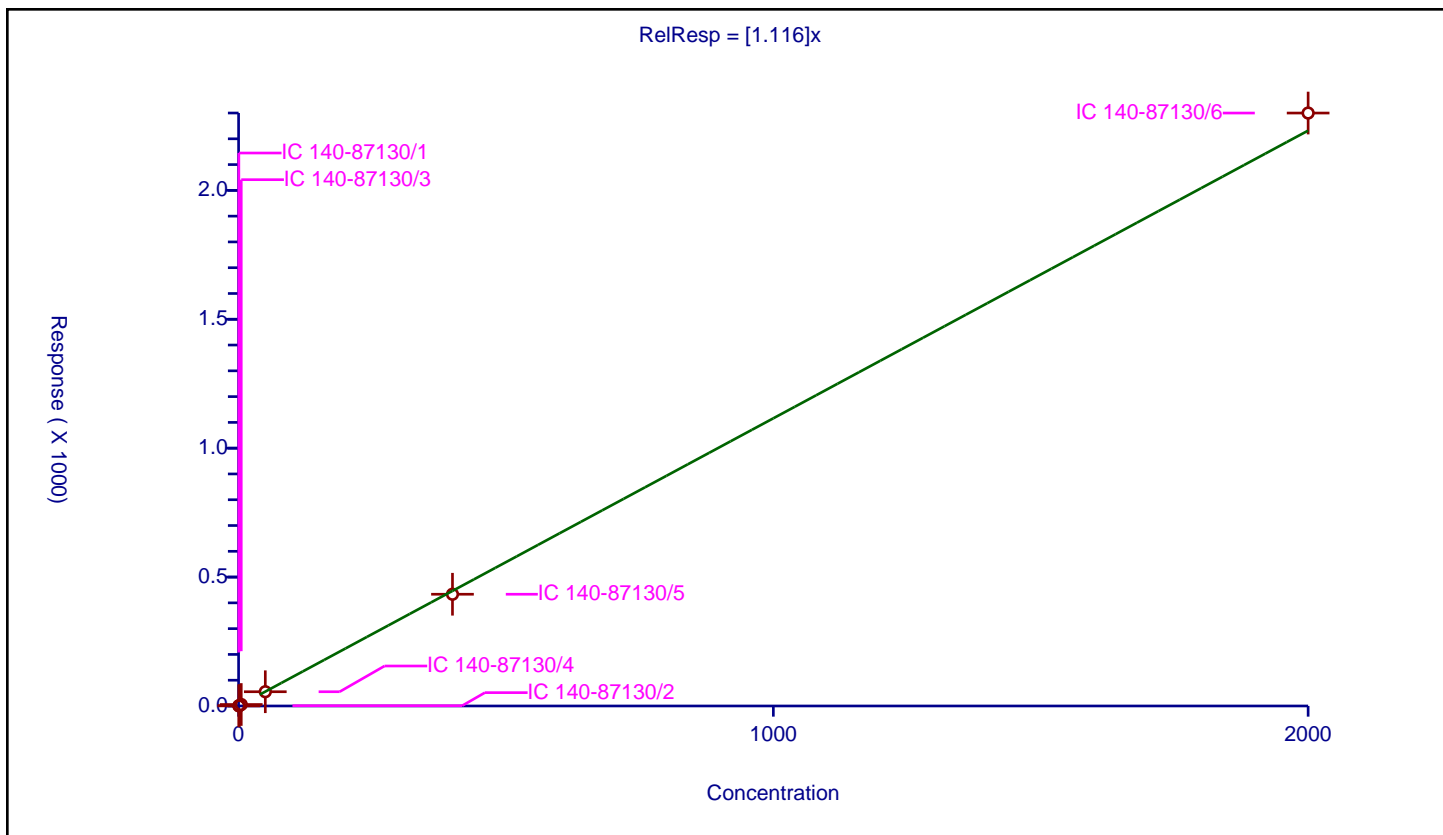
## Curve Coefficients

Intercept: 0  
 Slope: 1.116

## Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.562594	100.0	9105316.0	1.125189	Y
2	IC 140-87130/2	1.0	1.089125	100.0	8343026.0	1.089125	Y
3	IC 140-87130/3	5.0	5.704848	100.0	8150383.0	1.14097	Y
4	IC 140-87130/4	50.0	55.325958	100.0	8329121.0	1.106519	Y
5	IC 140-87130/5	400.0	433.408409	100.0	8748546.0	1.083521	Y
6	IC 140-87130/6	2000.0	2299.944203	100.0	9296213.0	1.149972	Y





# Calibration

/ PCB-168

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

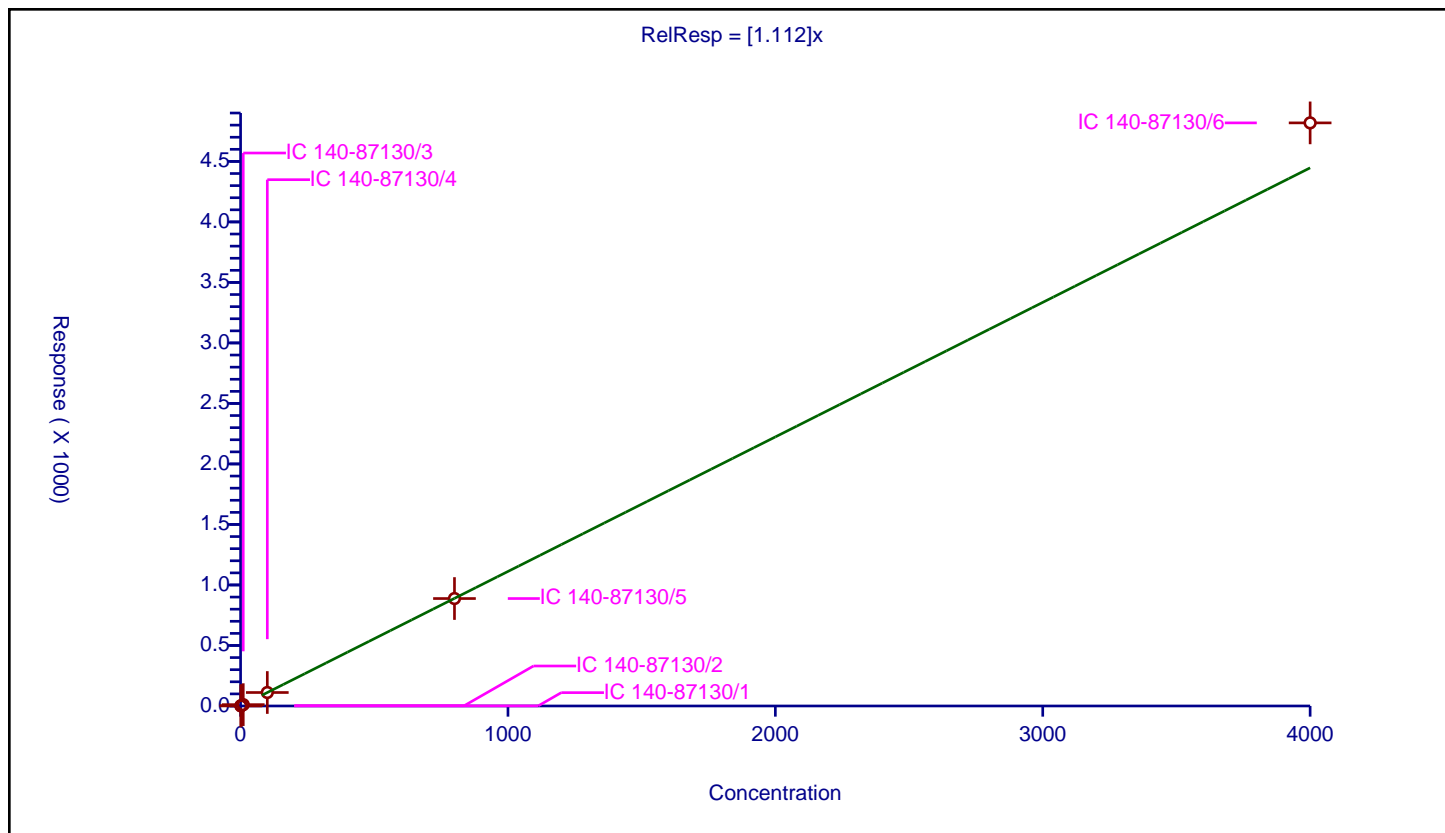
## Curve Coefficients

Intercept: 0  
Slope: 1.112

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.08579	200.0	17145311.0	1.08579	Y
2	IC 140-87130/2	2.0	2.076199	200.0	16075823.0	1.038099	Y
3	IC 140-87130/3	10.0	11.172444	200.0	15994835.0	1.117244	Y
4	IC 140-87130/4	100.0	111.466549	200.0	16048883.0	1.114665	Y
5	IC 140-87130/5	800.0	887.904587	200.0	16797326.0	1.109881	Y
6	IC 140-87130/6	4000.0	4818.405545	200.0	18003846.0	1.204601	Y



## Calibration

/ PCB-169

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

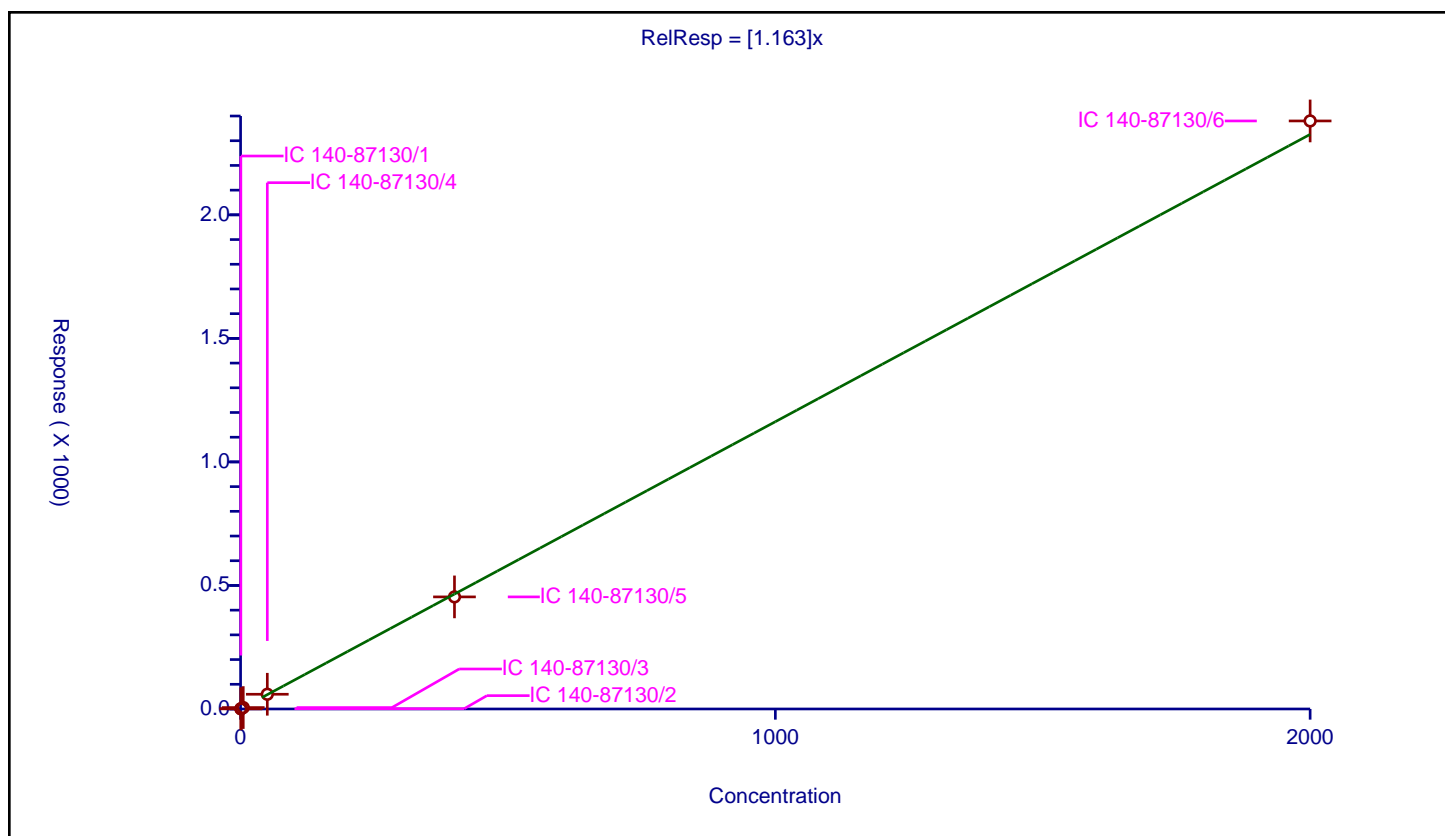
## Curve Coefficients

Intercept: 0  
Slope: 1.163

## Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.598025	100.0	9181390.0	1.19605	Y
2	IC 140-87130/2	1.0	1.109058	100.0	8243482.0	1.109058	Y
3	IC 140-87130/3	5.0	5.774115	100.0	7844285.0	1.154823	Y
4	IC 140-87130/4	50.0	59.649033	100.0	8145884.0	1.192981	Y
5	IC 140-87130/5	400.0	453.642676	100.0	8761705.0	1.134107	Y
6	IC 140-87130/6	2000.0	2380.008853	100.0	9278382.0	1.190004	Y



# Calibration

/ PCB-17

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

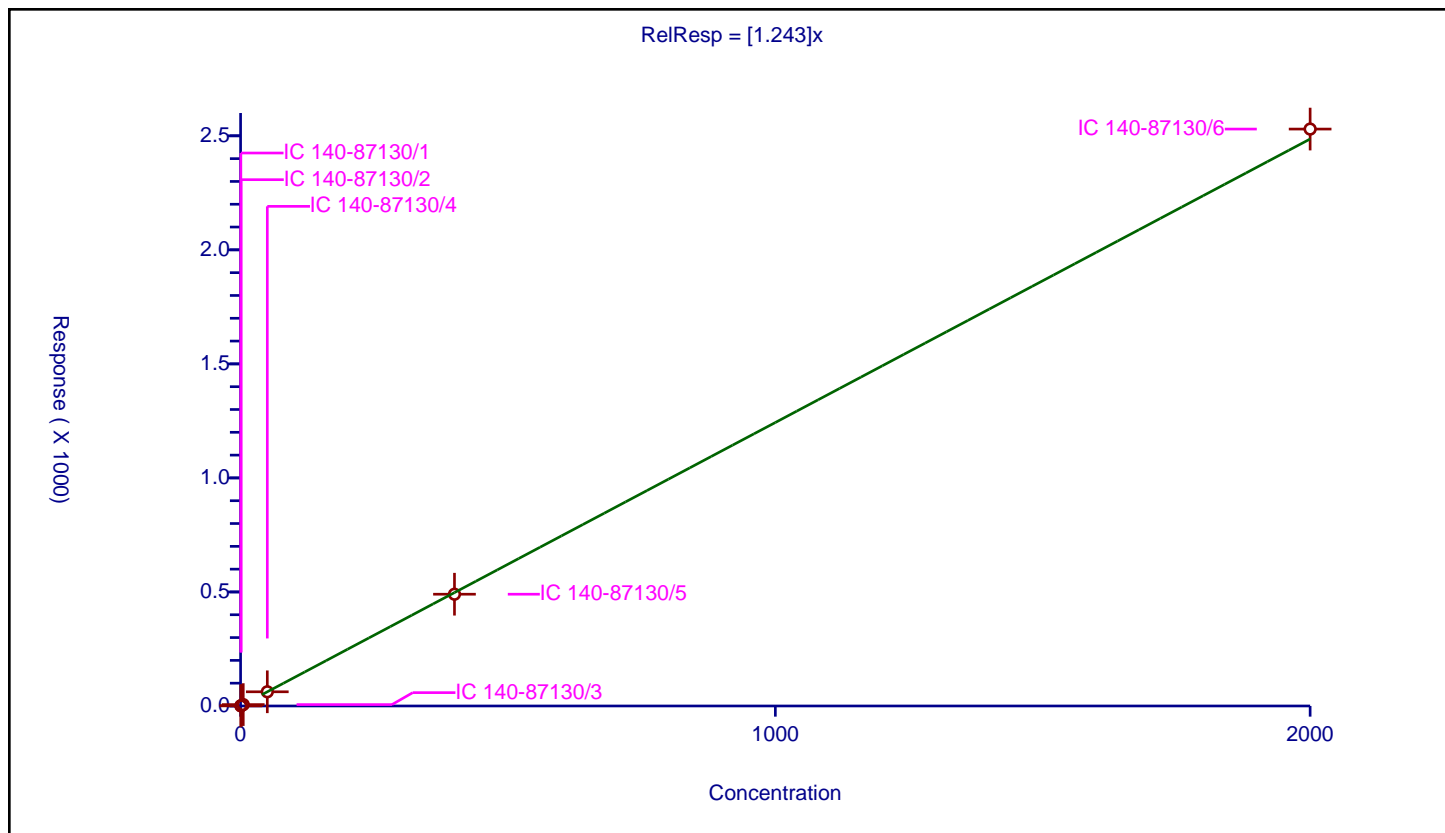
## Curve Coefficients

Intercept: 0  
Slope: 1.243

## Error Coefficients

Relative Standard Deviation: 1.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.624146	100.0	3711790.0	1.248293	Y
2	IC 140-87130/2	1.0	1.257347	100.0	3424036.0	1.257347	Y
3	IC 140-87130/3	5.0	6.082463	100.0	3389482.0	1.216493	Y
4	IC 140-87130/4	50.0	62.293197	100.0	3406868.0	1.245864	Y
5	IC 140-87130/5	400.0	490.092859	100.0	3537933.0	1.225232	Y
6	IC 140-87130/6	2000.0	2529.630527	100.0	3634856.0	1.264815	Y



# Calibration

/ PCB-170

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

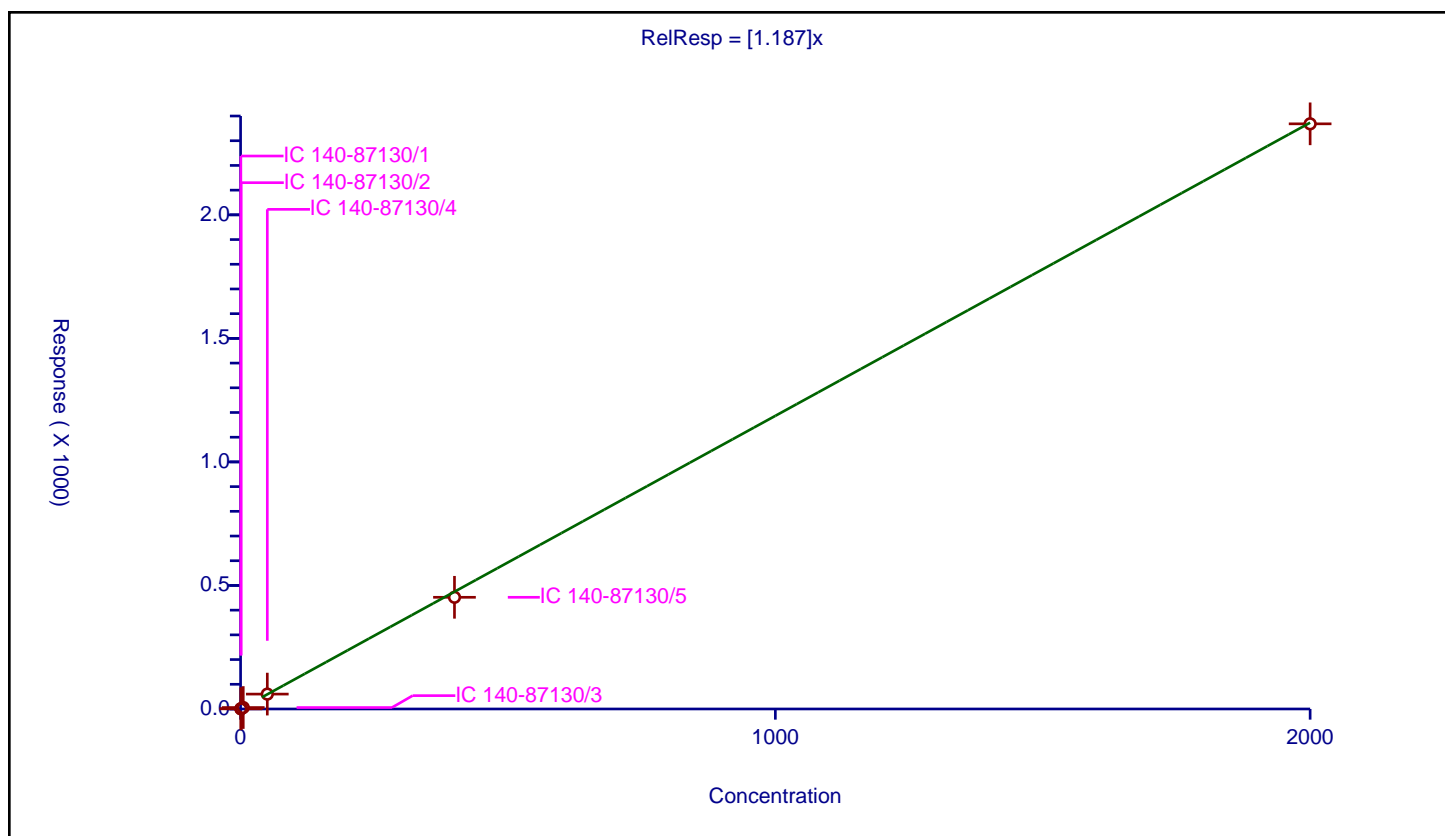
## Curve Coefficients

Intercept: 0  
Slope: 1.187

## Error Coefficients

Relative Standard Deviation: 2.7

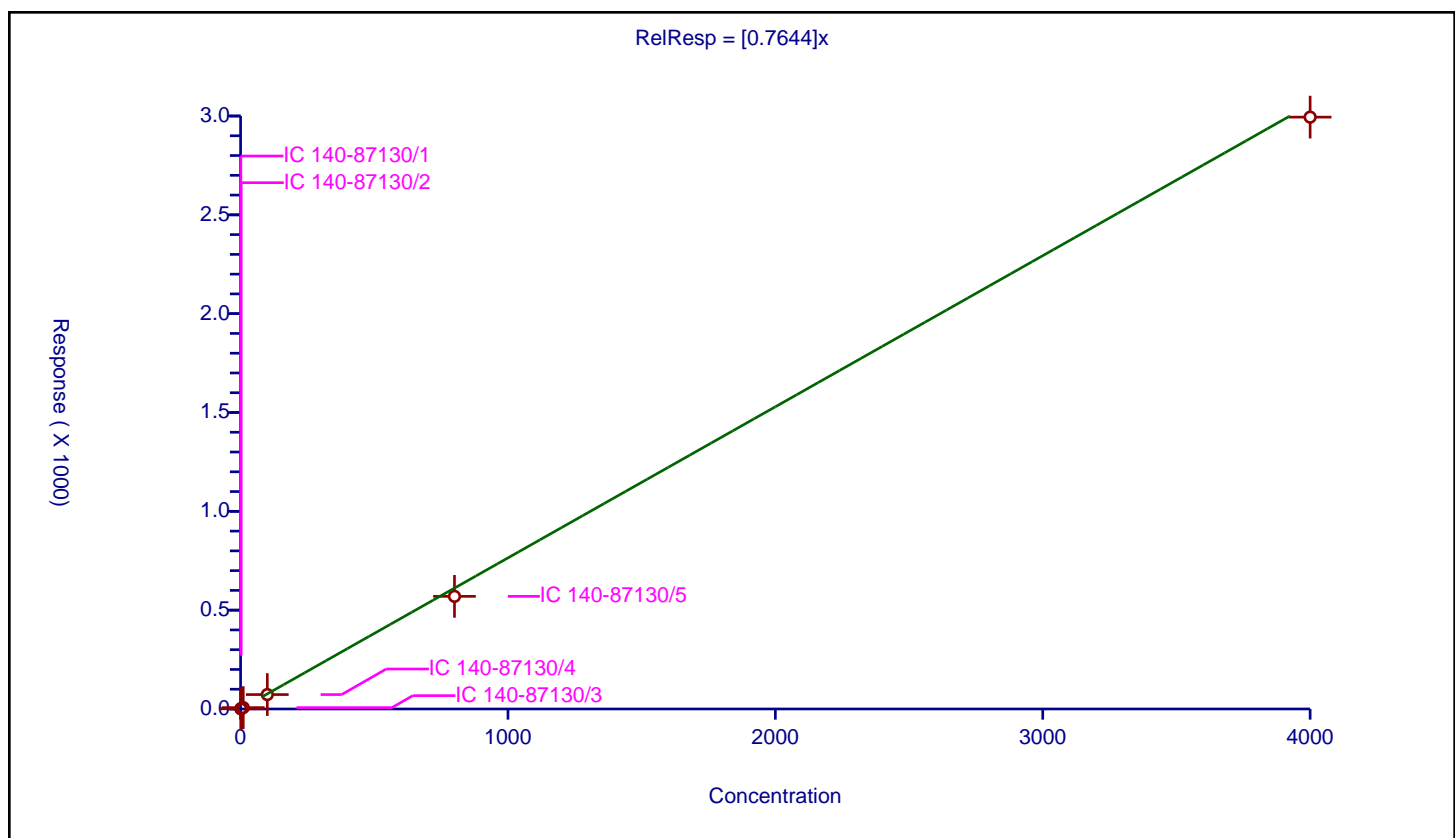
ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.609129	100.0	4764508.0	1.218258	Y
2	IC 140-87130/2	1.0	1.210137	100.0	4277780.0	1.210137	Y
3	IC 140-87130/3	5.0	5.856648	100.0	4357834.0	1.17133	Y
4	IC 140-87130/4	50.0	60.243724	100.0	4156589.0	1.204874	Y
5	IC 140-87130/5	400.0	452.105989	100.0	4386822.0	1.130265	Y
6	IC 140-87130/6	2000.0	2368.397586	100.0	4404173.0	1.184199	Y



## / PCB-171

Curve Coefficients	
Intercept:	0
Slope:	0.7644
Error Coefficients	
Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.849611	100.0	7116082.0	0.849611	Y
2	IC 140-87130/2	2.0	1.696349	100.0	6585200.0	0.848175	Y
3	IC 140-87130/3	10.0	6.987251	100.0	6664037.0	0.698725	Y
4	IC 140-87130/4	100.0	72.935277	100.0	6587579.0	0.729353	Y
5	IC 140-87130/5	800.0	569.795232	100.0	7006215.0	0.712244	Y
6	IC 140-87130/6	4000.0	2994.305697	100.0	7440630.0	0.748576	Y



# Calibration

/ PCB-171/173

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

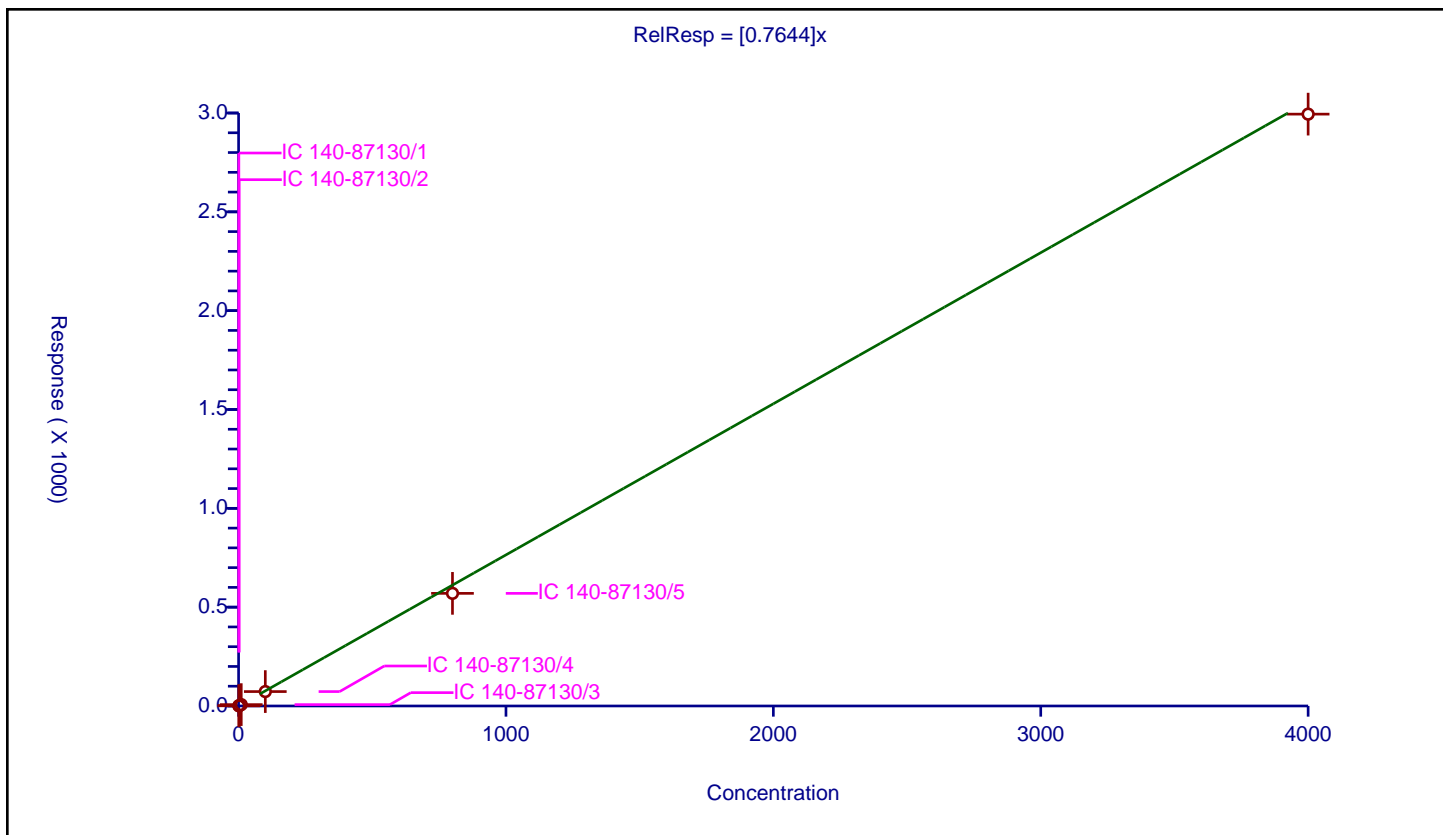
## Curve Coefficients

Intercept: 0  
 Slope: 0.7644

## Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.849611	100.0	7116082.0	0.849611	Y
2	IC 140-87130/2	2.0	1.696349	100.0	6585200.0	0.848175	Y
3	IC 140-87130/3	10.0	6.987251	100.0	6664037.0	0.698725	Y
4	IC 140-87130/4	100.0	72.935277	100.0	6587579.0	0.729353	Y
5	IC 140-87130/5	800.0	569.795232	100.0	7006215.0	0.712244	Y
6	IC 140-87130/6	4000.0	2994.305697	100.0	7440630.0	0.748576	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

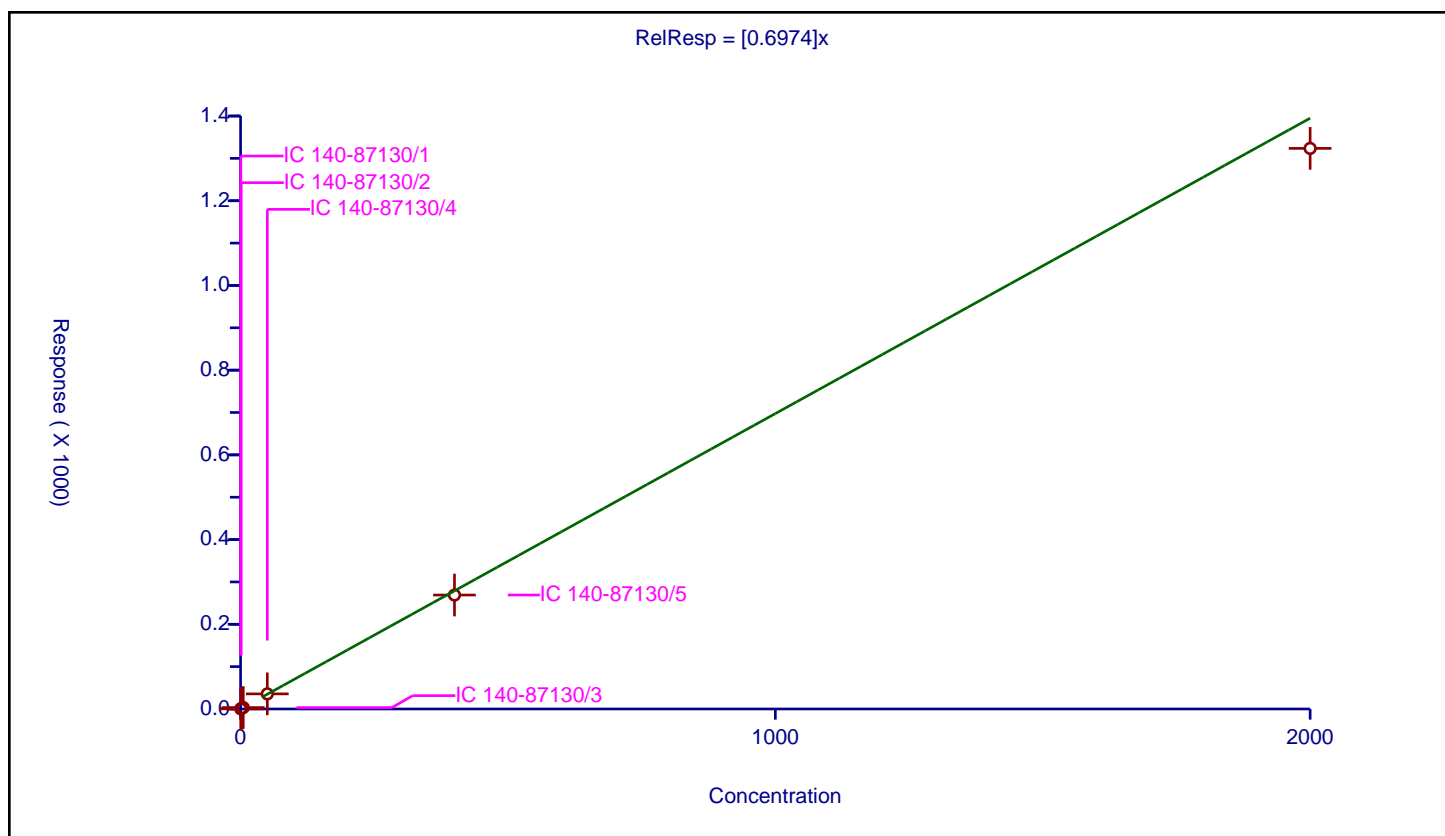
## Curve Coefficients

Intercept: 0  
Slope: 0.6974

## Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.371412	100.0	7116082.0	0.742824	Y
2	IC 140-87130/2	1.0	0.716652	100.0	6585200.0	0.716652	Y
3	IC 140-87130/3	5.0	3.389327	100.0	6664037.0	0.677865	Y
4	IC 140-87130/4	50.0	35.642275	100.0	6587579.0	0.712845	Y
5	IC 140-87130/5	400.0	269.045469	100.0	7006215.0	0.672614	Y
6	IC 140-87130/6	2000.0	1323.549578	100.0	7440630.0	0.661775	Y



## Calibration

/ PCB-173

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

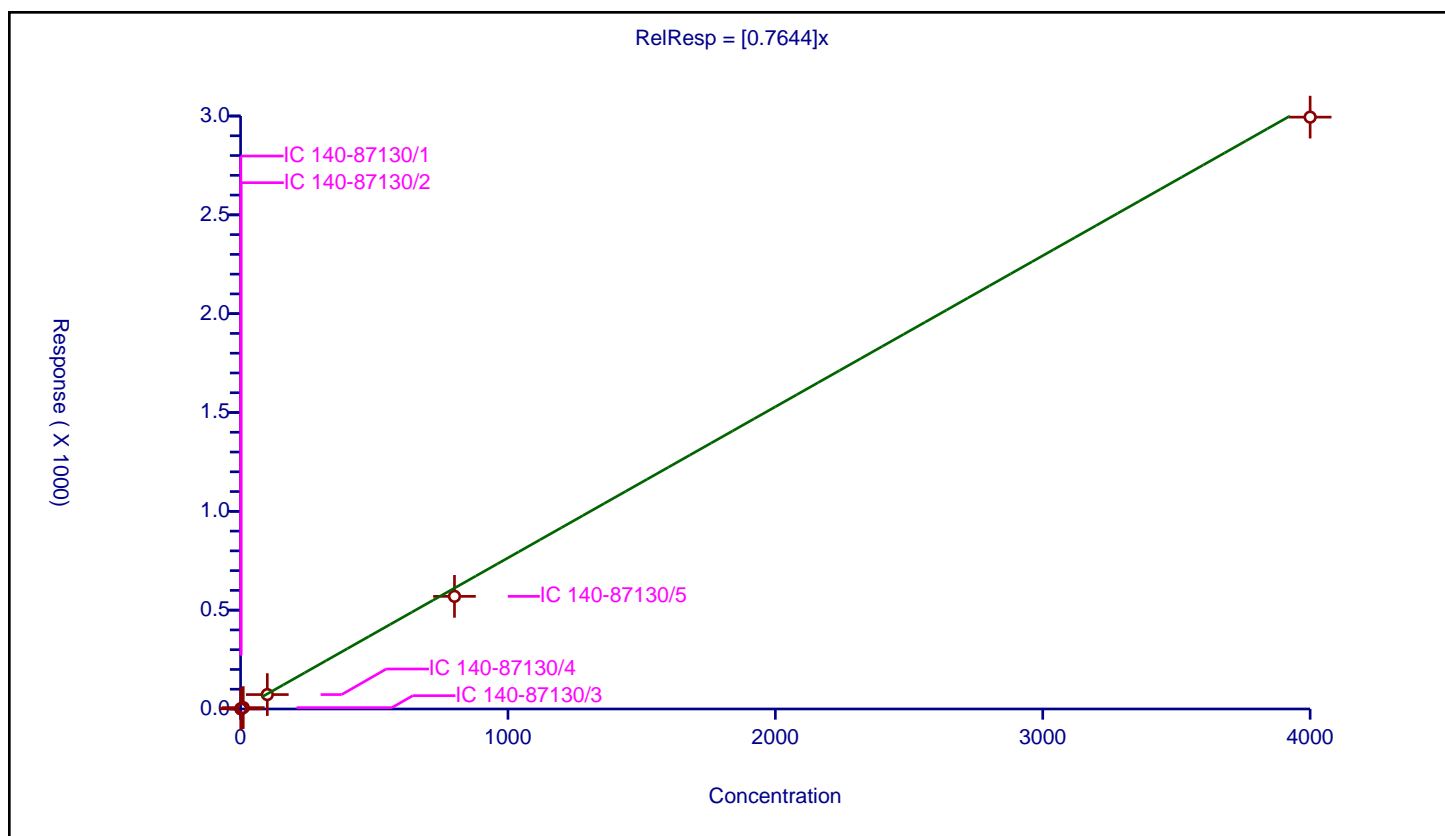
## Curve Coefficients

Intercept: 0  
Slope: 0.7644

## Error Coefficients

Relative Standard Deviation: 8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.849611	100.0	7116082.0	0.849611	Y
2	IC 140-87130/2	2.0	1.696349	100.0	6585200.0	0.848175	Y
3	IC 140-87130/3	10.0	6.987251	100.0	6664037.0	0.698725	Y
4	IC 140-87130/4	100.0	72.935277	100.0	6587579.0	0.729353	Y
5	IC 140-87130/5	800.0	569.795232	100.0	7006215.0	0.712244	Y
6	IC 140-87130/6	4000.0	2994.305697	100.0	7440630.0	0.748576	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

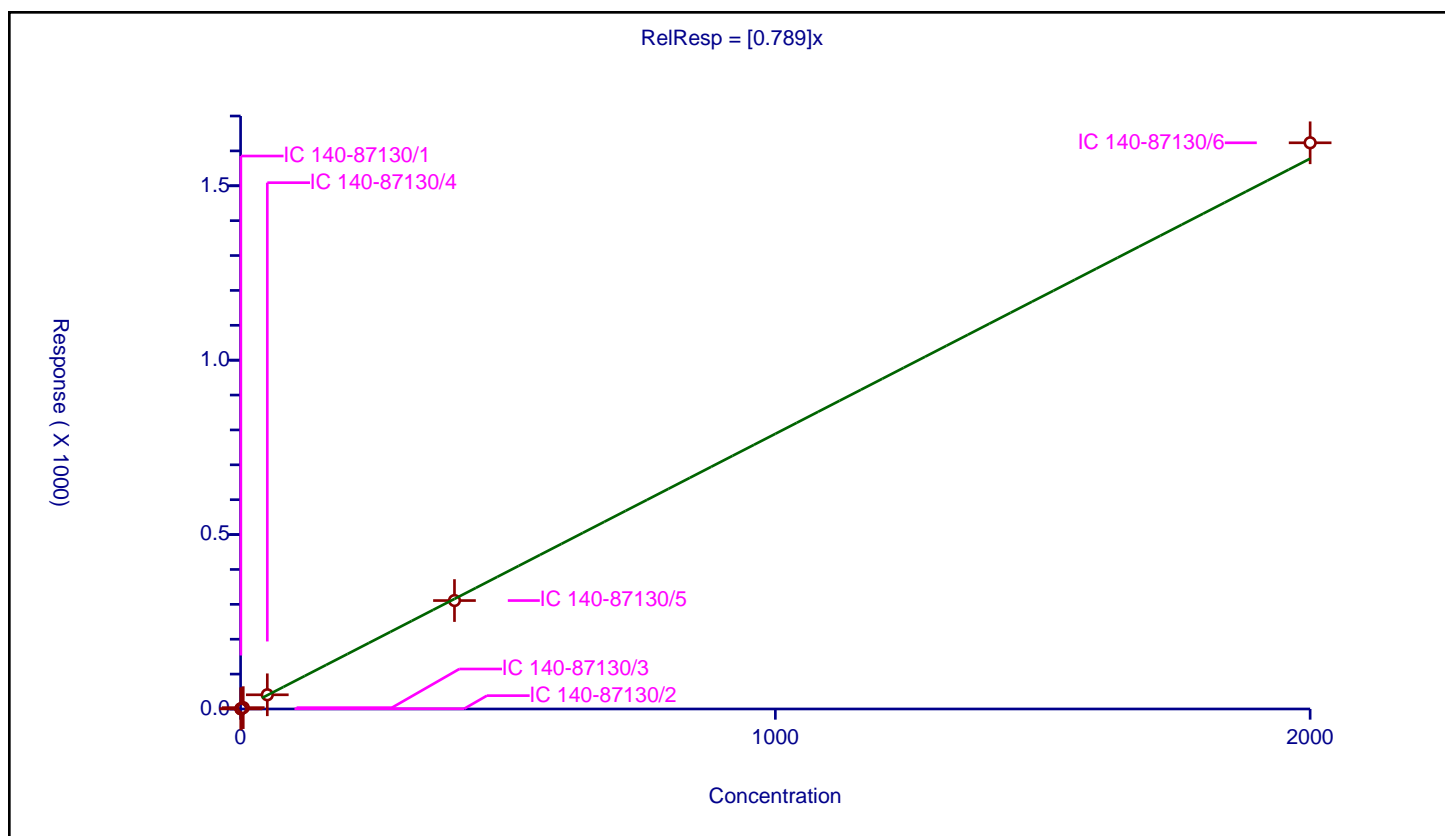
## Curve Coefficients

Intercept: 0  
Slope: 0.789

## Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.424531	100.0	7116082.0	0.849063	Y
2	IC 140-87130/2	1.0	0.704458	100.0	6585200.0	0.704458	Y
3	IC 140-87130/3	5.0	3.885423	100.0	6664037.0	0.777085	Y
4	IC 140-87130/4	50.0	40.710677	100.0	6587579.0	0.814214	Y
5	IC 140-87130/5	400.0	310.912083	100.0	7006215.0	0.77728	Y
6	IC 140-87130/6	2000.0	1623.223665	100.0	7440630.0	0.811612	Y



# Calibration

/ PCB-175

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

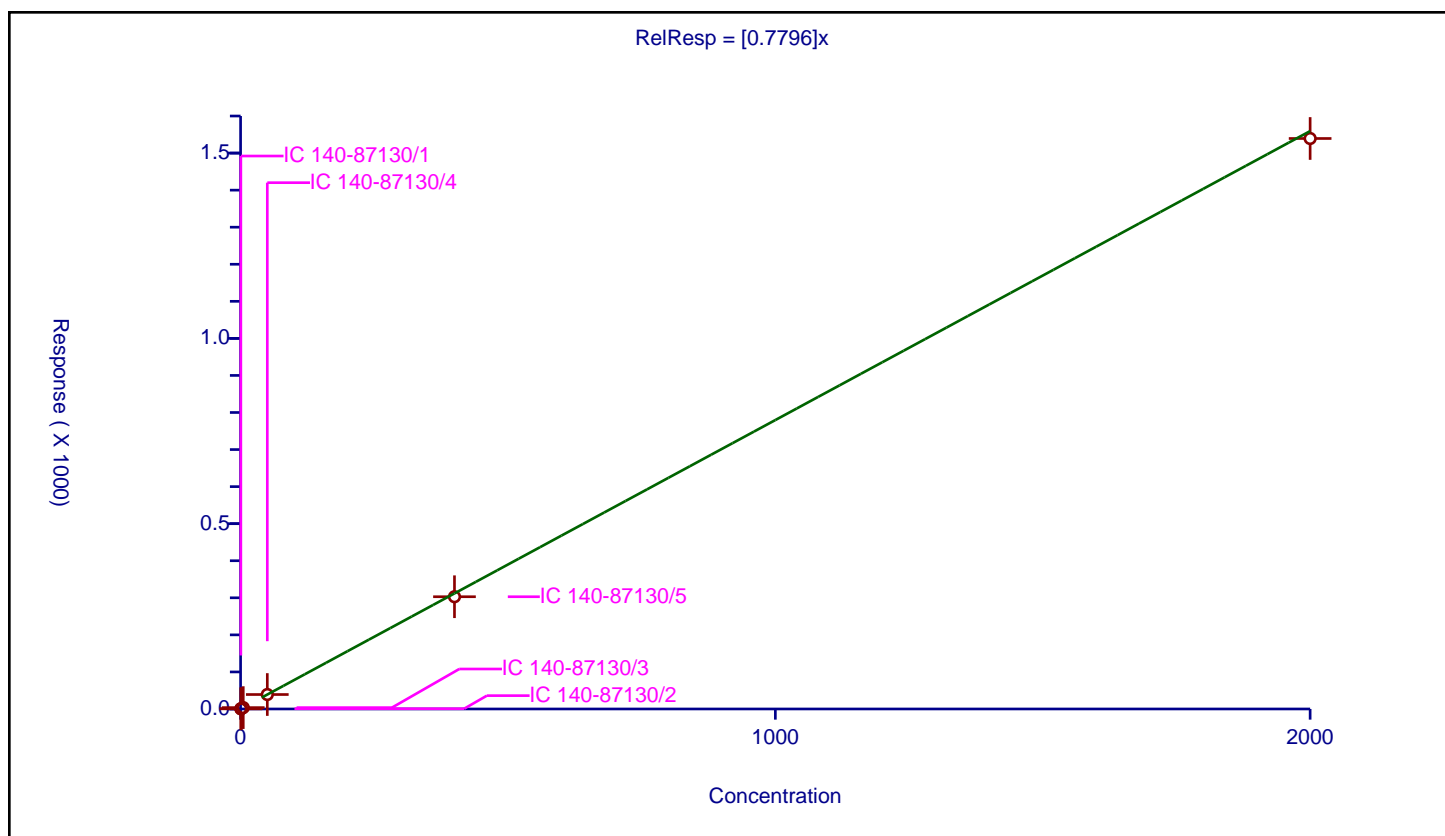
## Curve Coefficients

Intercept: 0  
Slope: 0.7796

## Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.43486	100.0	7116082.0	0.86972	Y
2	IC 140-87130/2	1.0	0.762209	100.0	6585200.0	0.762209	Y
3	IC 140-87130/3	5.0	3.694262	100.0	6664037.0	0.738852	Y
4	IC 140-87130/4	50.0	39.01116	100.0	6587579.0	0.780223	Y
5	IC 140-87130/5	400.0	302.879857	100.0	7006215.0	0.7572	Y
6	IC 140-87130/6	2000.0	1539.316523	100.0	7440630.0	0.769658	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

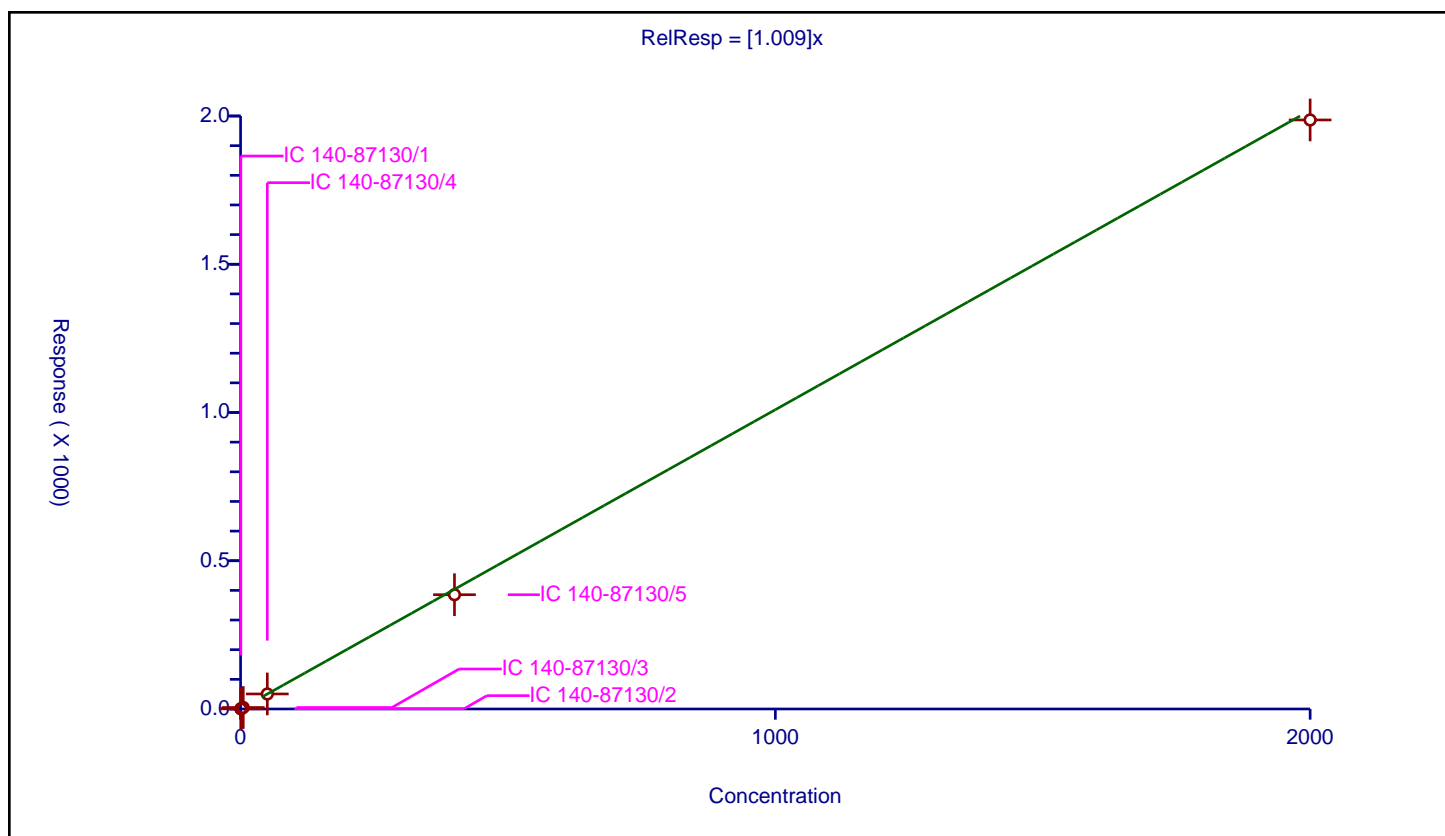
## Curve Coefficients

Intercept: 0  
Slope: 1.009

## Error Coefficients

Relative Standard Deviation: 6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.570314	100.0	7116082.0	1.140628	Y
2	IC 140-87130/2	1.0	0.950039	100.0	6585200.0	0.950039	Y
3	IC 140-87130/3	5.0	4.979729	100.0	6664037.0	0.995946	Y
4	IC 140-87130/4	50.0	50.662891	100.0	6587579.0	1.013258	Y
5	IC 140-87130/5	400.0	385.481076	100.0	7006215.0	0.963703	Y
6	IC 140-87130/6	2000.0	1986.671088	100.0	7440630.0	0.993336	Y



# Calibration

/ PCB-177

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

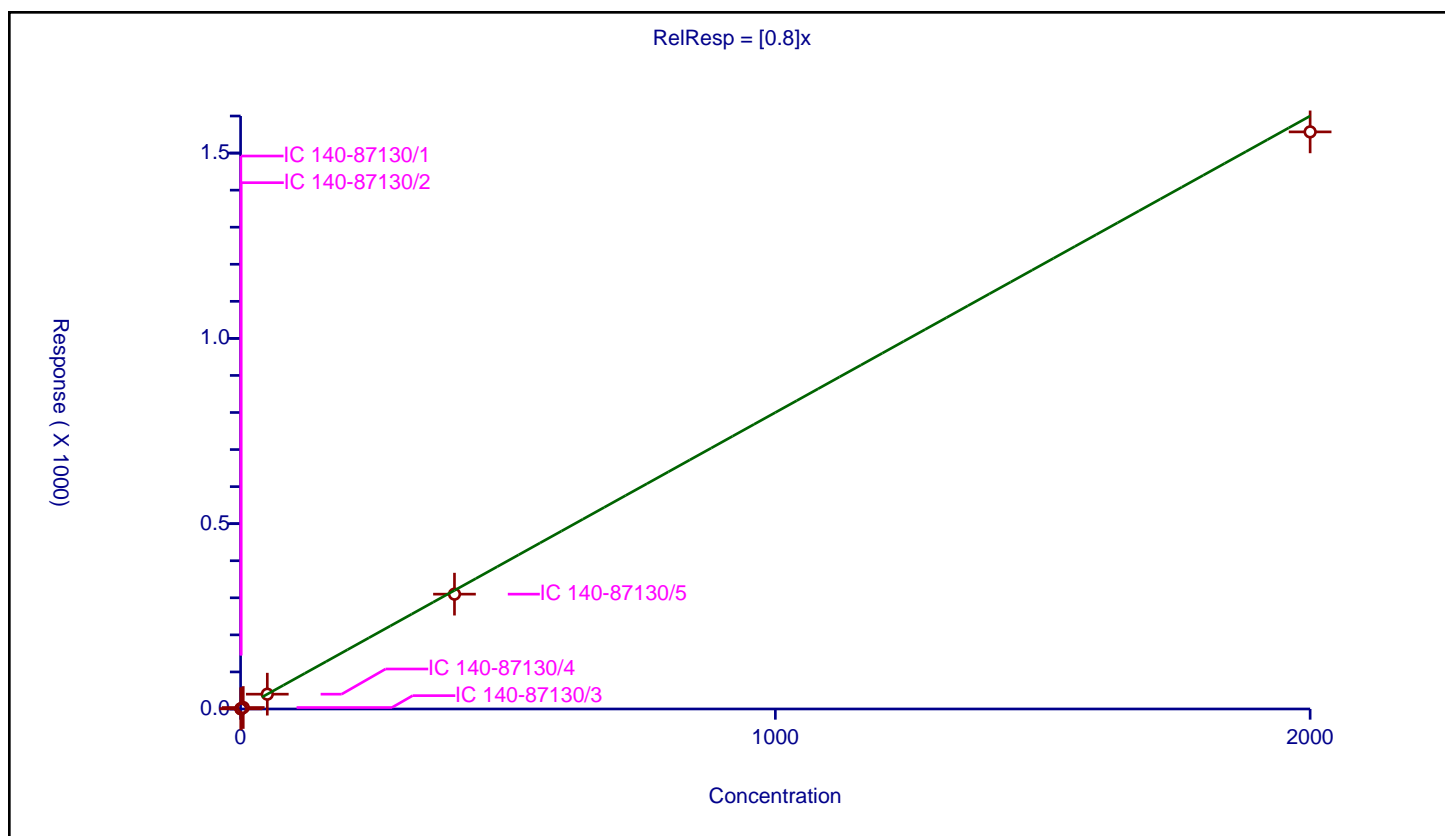
## Curve Coefficients

Intercept: 0  
 Slope: 0.8

## Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.420231	100.0	7116082.0	0.840462	Y
2	IC 140-87130/2	1.0	0.811016	100.0	6585200.0	0.811016	Y
3	IC 140-87130/3	5.0	3.977904	100.0	6664037.0	0.795581	Y
4	IC 140-87130/4	50.0	39.977904	100.0	6587579.0	0.799558	Y
5	IC 140-87130/5	400.0	309.878501	100.0	7006215.0	0.774696	Y
6	IC 140-87130/6	2000.0	1557.201218	100.0	7440630.0	0.778601	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

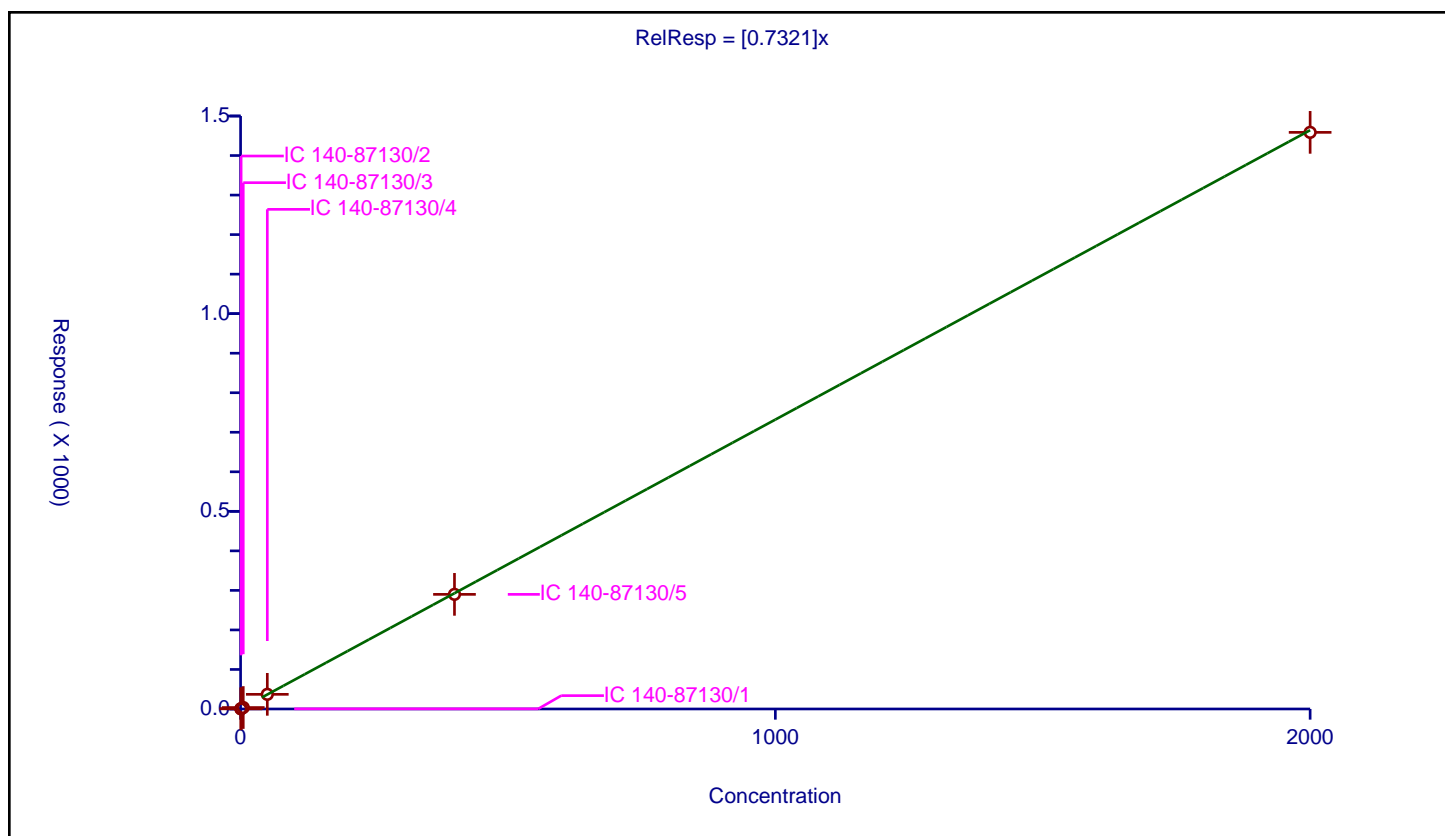
## Curve Coefficients

Intercept: 0  
Slope: 0.7321

## Error Coefficients

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.355308	100.0	7116082.0	0.710616	Y
2	IC 140-87130/2	1.0	0.746462	100.0	6585200.0	0.746462	Y
3	IC 140-87130/3	5.0	3.700895	100.0	6664037.0	0.740179	Y
4	IC 140-87130/4	50.0	37.046766	100.0	6587579.0	0.740935	Y
5	IC 140-87130/5	400.0	289.95459	100.0	7006215.0	0.724886	Y
6	IC 140-87130/6	2000.0	1458.627549	100.0	7440630.0	0.729314	Y



# Calibration

/ PCB-178L

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: ISTD  
Response Base: AREA  
RF Rounding: 0

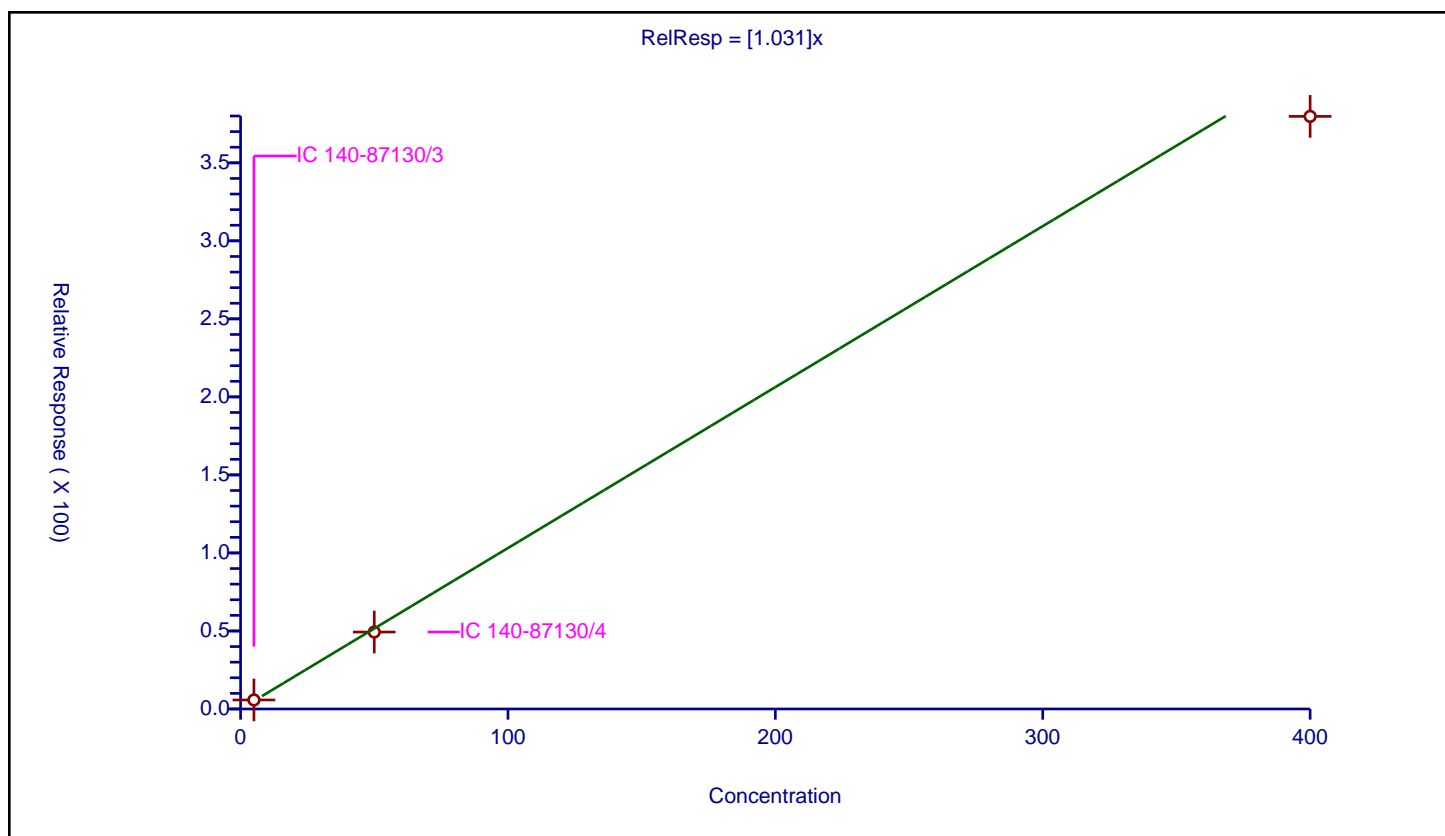
## Curve Coefficients

Intercept: 0  
Slope: 1.031

## Error Coefficients

Relative Standard Deviation: 10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	5.792413	100.0	5019998.0	1.158483	Y
2	IC 140-87130/4	50.0	49.304117	100.0	4977558.0	0.986082	Y
3	IC 140-87130/5	400.0	379.768667	100.0	5309833.0	0.949422	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

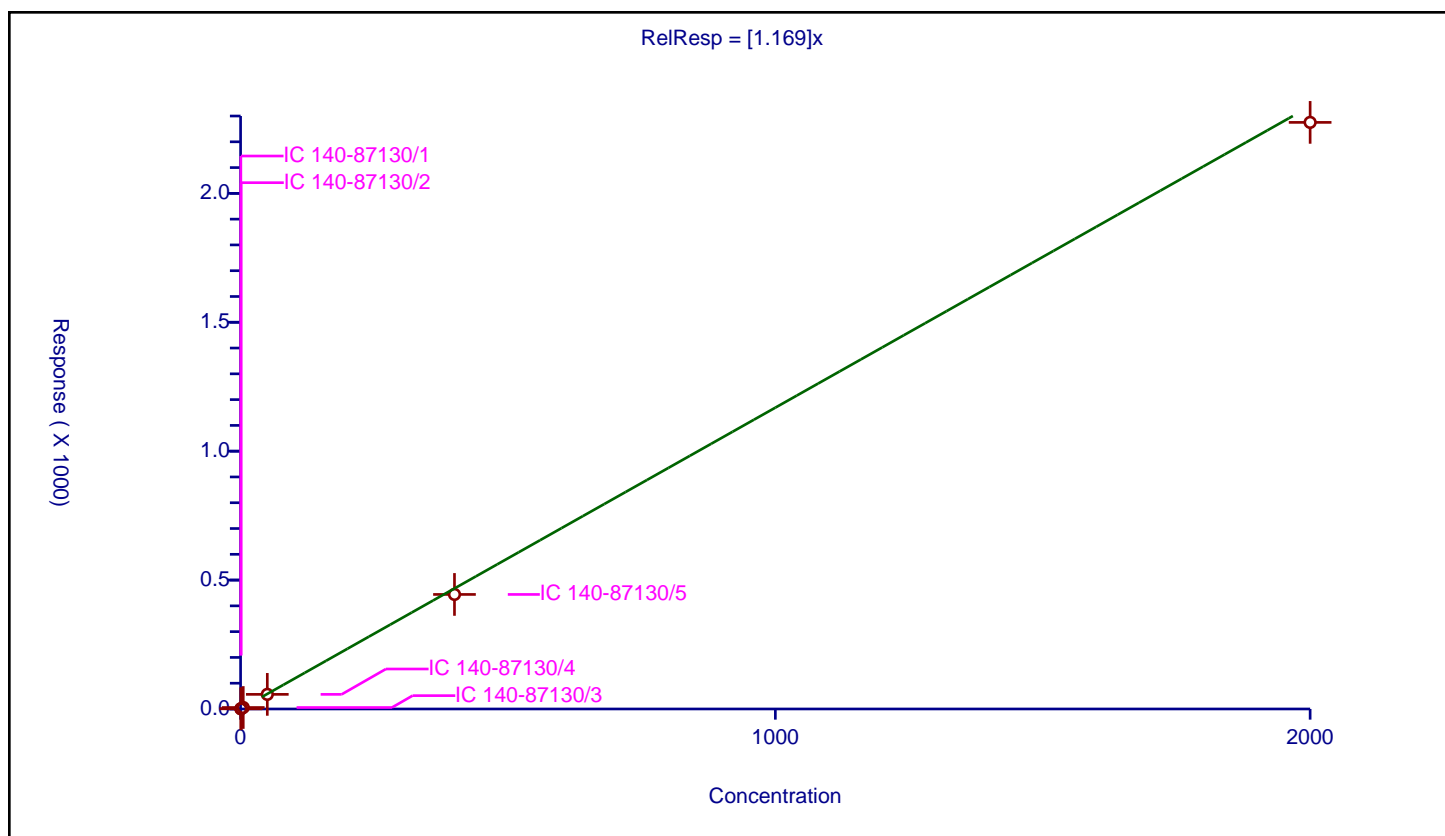
## Curve Coefficients

Intercept: 0  
Slope: 1.169

## Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.657342	100.0	7116082.0	1.314684	Y
2	IC 140-87130/2	1.0	1.170838	100.0	6585200.0	1.170838	Y
3	IC 140-87130/3	5.0	5.728405	100.0	6664037.0	1.145681	Y
4	IC 140-87130/4	50.0	56.681582	100.0	6587579.0	1.133632	Y
5	IC 140-87130/5	400.0	444.329071	100.0	7006215.0	1.110823	Y
6	IC 140-87130/6	2000.0	2275.27458	100.0	7440630.0	1.137637	Y



**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

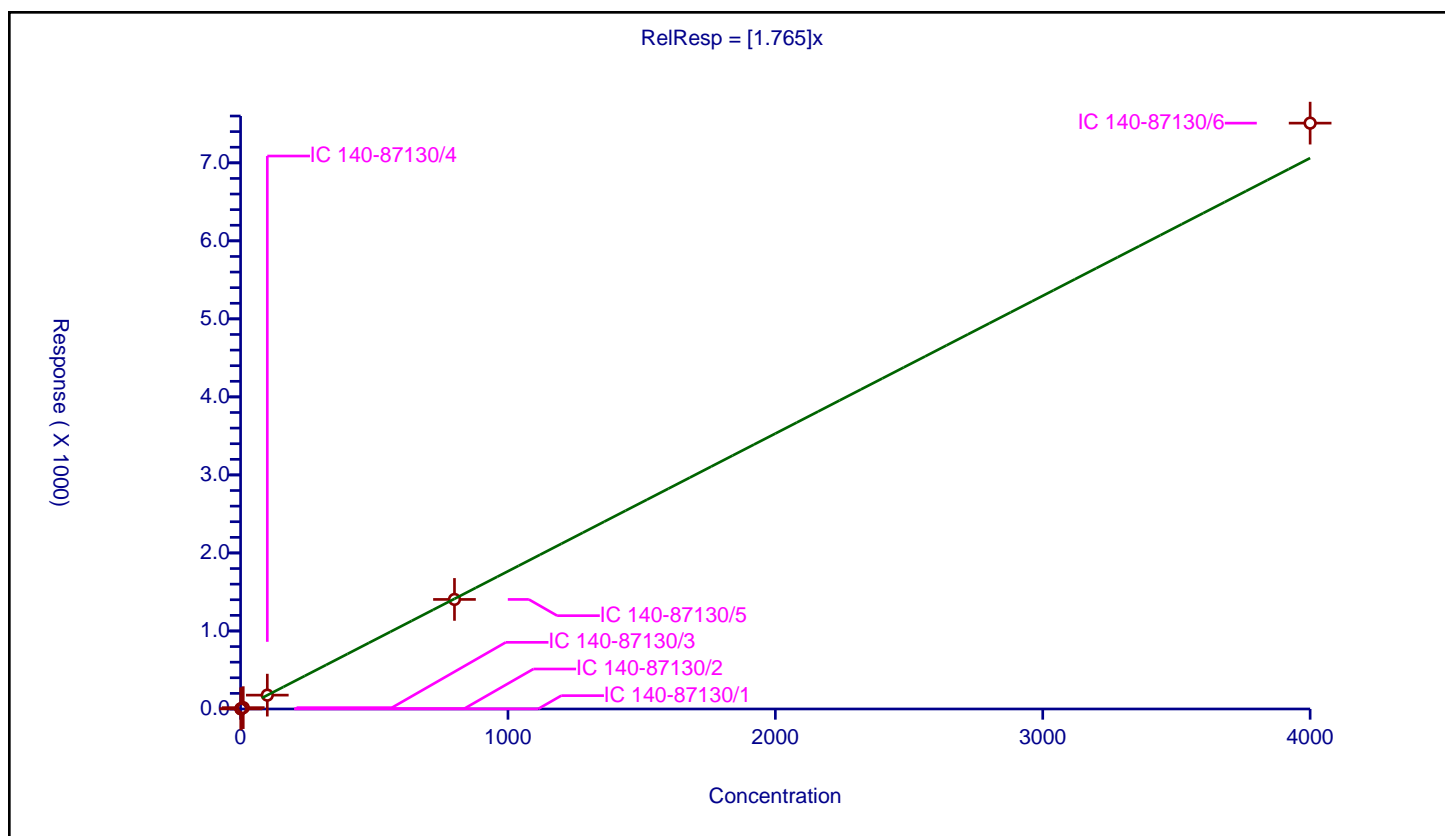
## Curve Coefficients

**Intercept:** 0  
**Slope:** 1.765

## Error Coefficients

**Relative Standard Deviation:** 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.697941	100.0	3711790.0	1.697941	Y
2	IC 140-87130/2	2.0	3.493684	100.0	3424036.0	1.746842	Y
3	IC 140-87130/3	10.0	17.367846	100.0	3389482.0	1.736785	Y
4	IC 140-87130/4	100.0	177.714869	100.0	3406868.0	1.777149	Y
5	IC 140-87130/5	800.0	1404.321535	100.0	3537933.0	1.755402	Y
6	IC 140-87130/6	4000.0	7508.781366	100.0	3634856.0	1.877195	Y





# Calibration

/ PCB-18/30

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

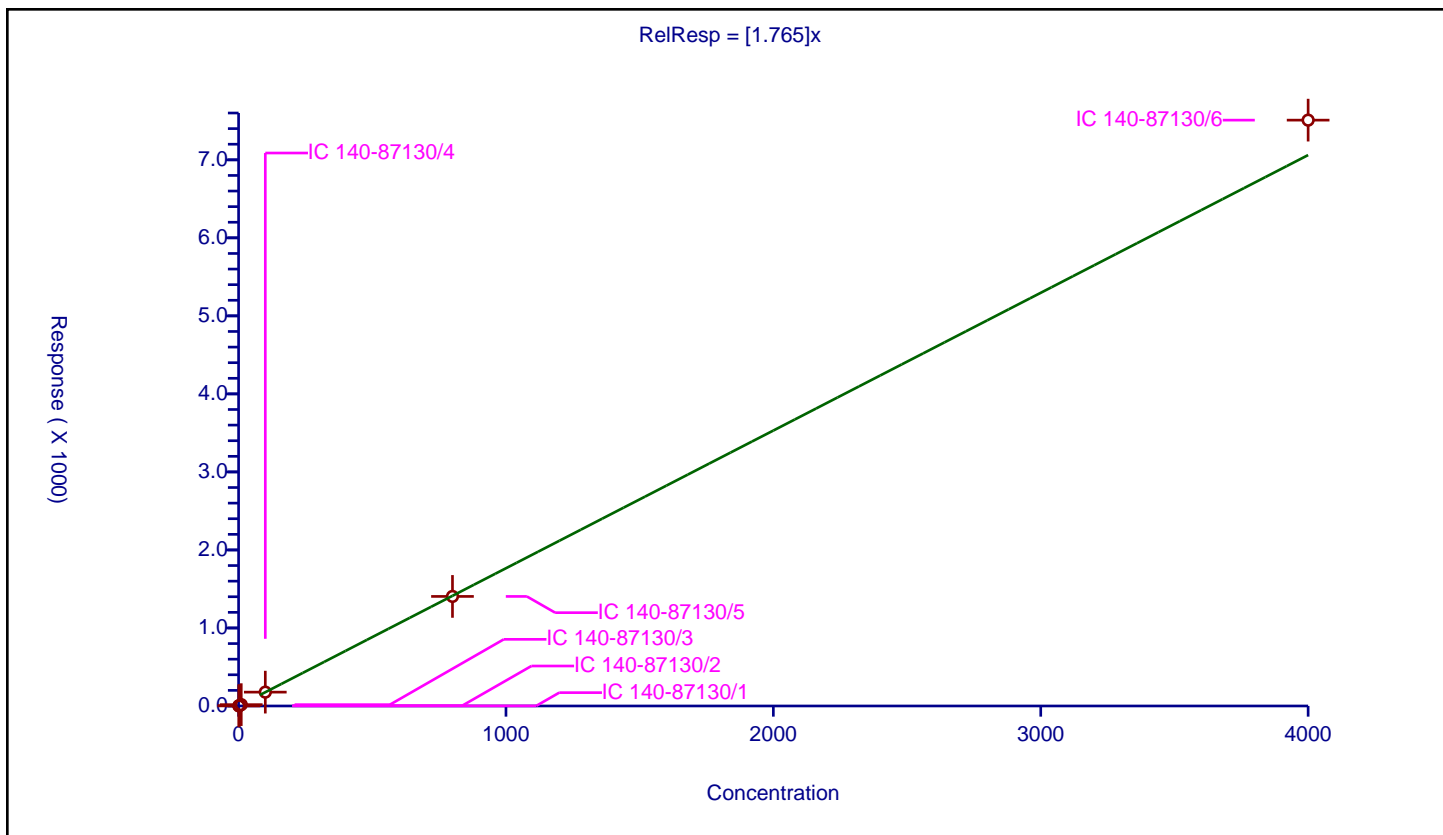
## Curve Coefficients

Intercept: 0  
 Slope: 1.765

## Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.697941	100.0	3711790.0	1.697941	Y
2	IC 140-87130/2	2.0	3.493684	100.0	3424036.0	1.746842	Y
3	IC 140-87130/3	10.0	17.367846	100.0	3389482.0	1.736785	Y
4	IC 140-87130/4	100.0	177.714869	100.0	3406868.0	1.777149	Y
5	IC 140-87130/5	800.0	1404.321535	100.0	3537933.0	1.755402	Y
6	IC 140-87130/6	4000.0	7508.781366	100.0	3634856.0	1.877195	Y



# Calibration

/ PCB-180

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

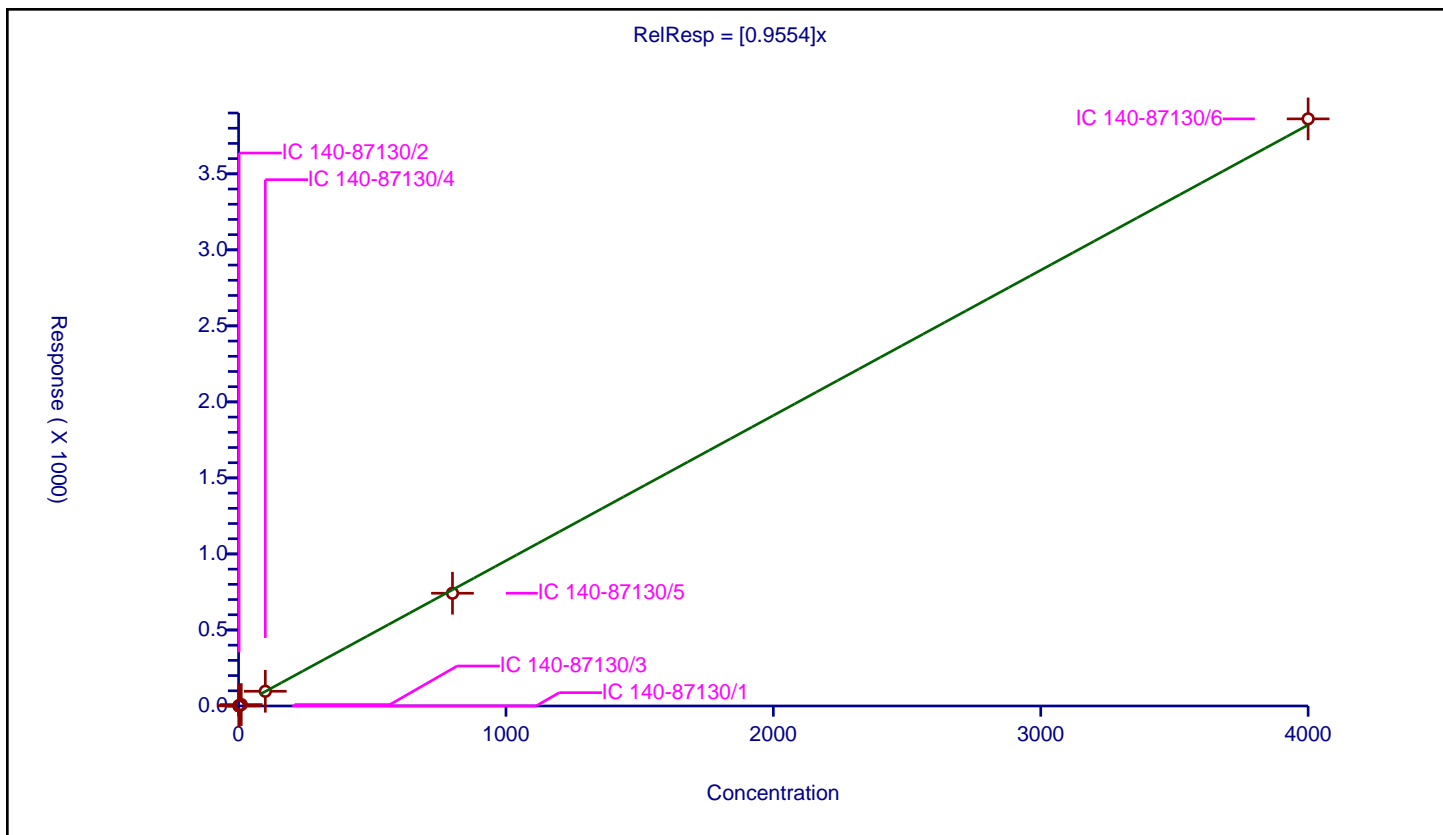
## Curve Coefficients

Intercept: 0  
Slope: 0.9554

## Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.940616	100.0	7116082.0	0.940616	Y
2	IC 140-87130/2	2.0	1.980942	100.0	6585200.0	0.990471	Y
3	IC 140-87130/3	10.0	9.403114	100.0	6664037.0	0.940311	Y
4	IC 140-87130/4	100.0	96.857131	100.0	6587579.0	0.968571	Y
5	IC 140-87130/5	800.0	741.672886	100.0	7006215.0	0.927091	Y
6	IC 140-87130/6	4000.0	3861.399881	100.0	7440630.0	0.96535	Y



# Calibration

/ PCB-180/193

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

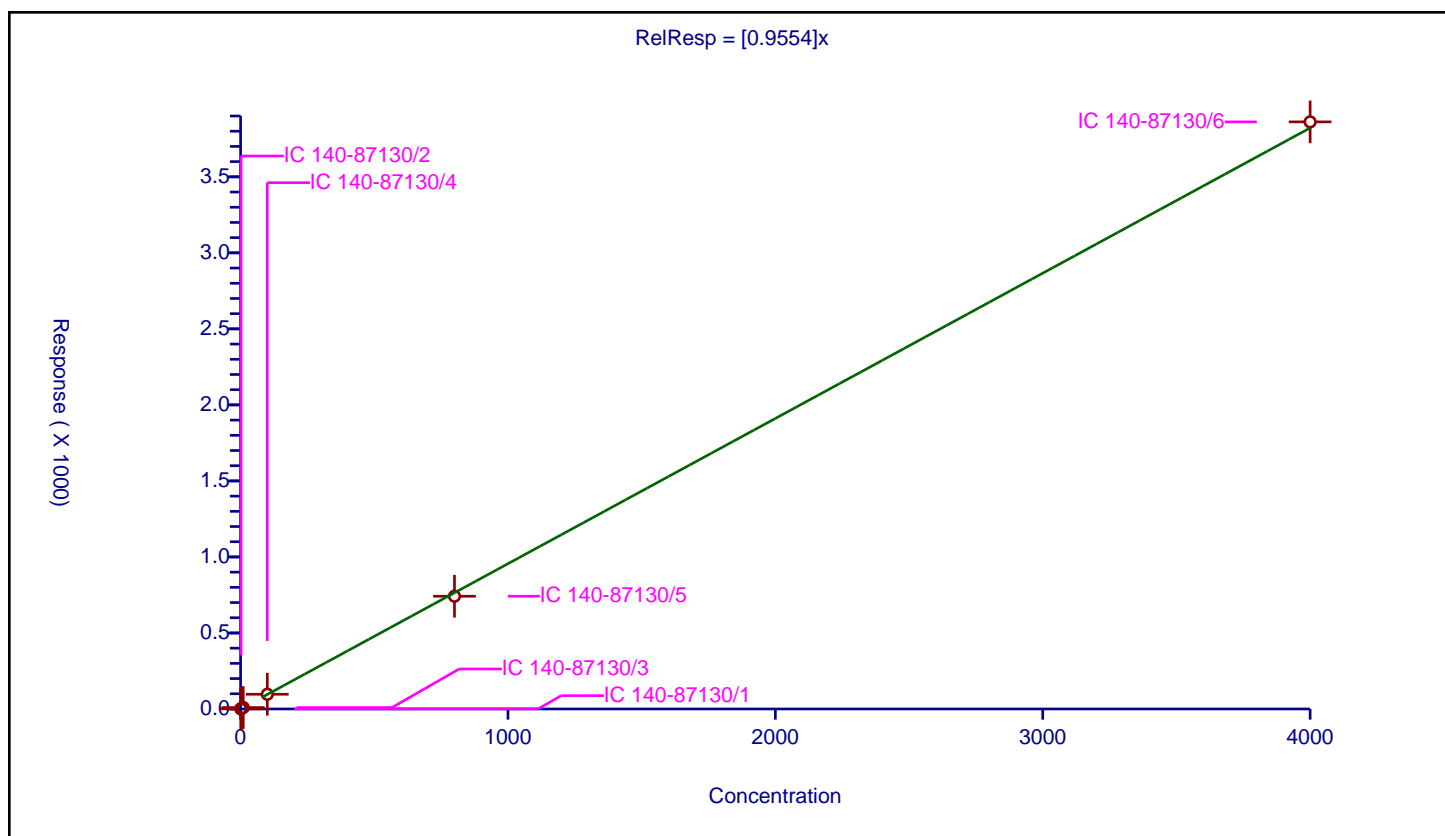
## Curve Coefficients

Intercept: 0  
 Slope: 0.9554

## Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.940616	100.0	7116082.0	0.940616	Y
2	IC 140-87130/2	2.0	1.980942	100.0	6585200.0	0.990471	Y
3	IC 140-87130/3	10.0	9.403114	100.0	6664037.0	0.940311	Y
4	IC 140-87130/4	100.0	96.857131	100.0	6587579.0	0.968571	Y
5	IC 140-87130/5	800.0	741.672886	100.0	7006215.0	0.927091	Y
6	IC 140-87130/6	4000.0	3861.399881	100.0	7440630.0	0.96535	Y



## Calibration

/ PCB-181

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

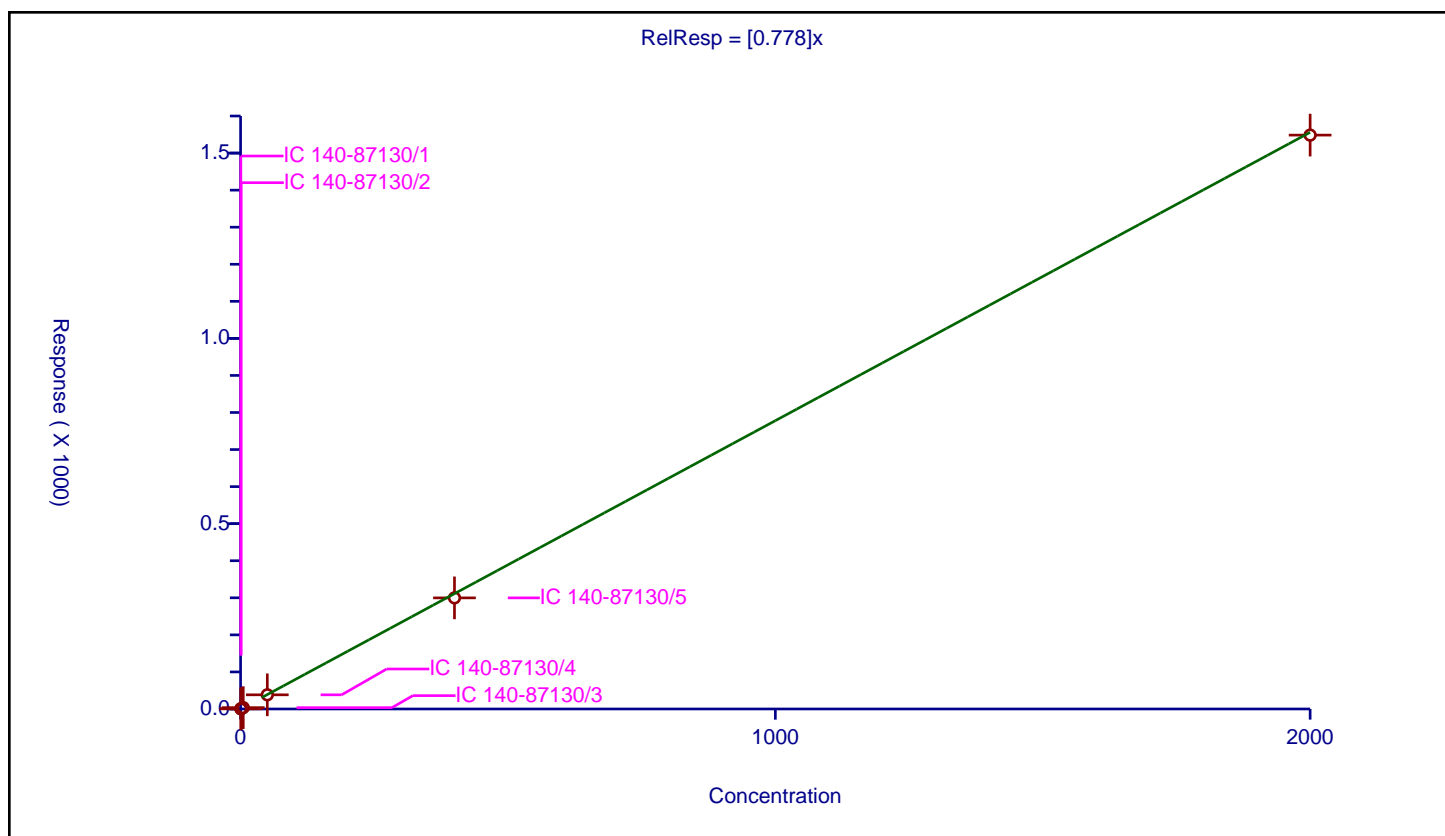
## Curve Coefficients

Intercept: 0  
Slope: 0.778

## Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.402427	100.0	7116082.0	0.804853	Y
2	IC 140-87130/2	1.0	0.844409	100.0	6585200.0	0.844409	Y
3	IC 140-87130/3	5.0	3.647774	100.0	6664037.0	0.729555	Y
4	IC 140-87130/4	50.0	38.269385	100.0	6587579.0	0.765388	Y
5	IC 140-87130/5	400.0	299.805216	100.0	7006215.0	0.749513	Y
6	IC 140-87130/6	2000.0	1548.502815	100.0	7440630.0	0.774251	Y



# Calibration

/ PCB-182

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

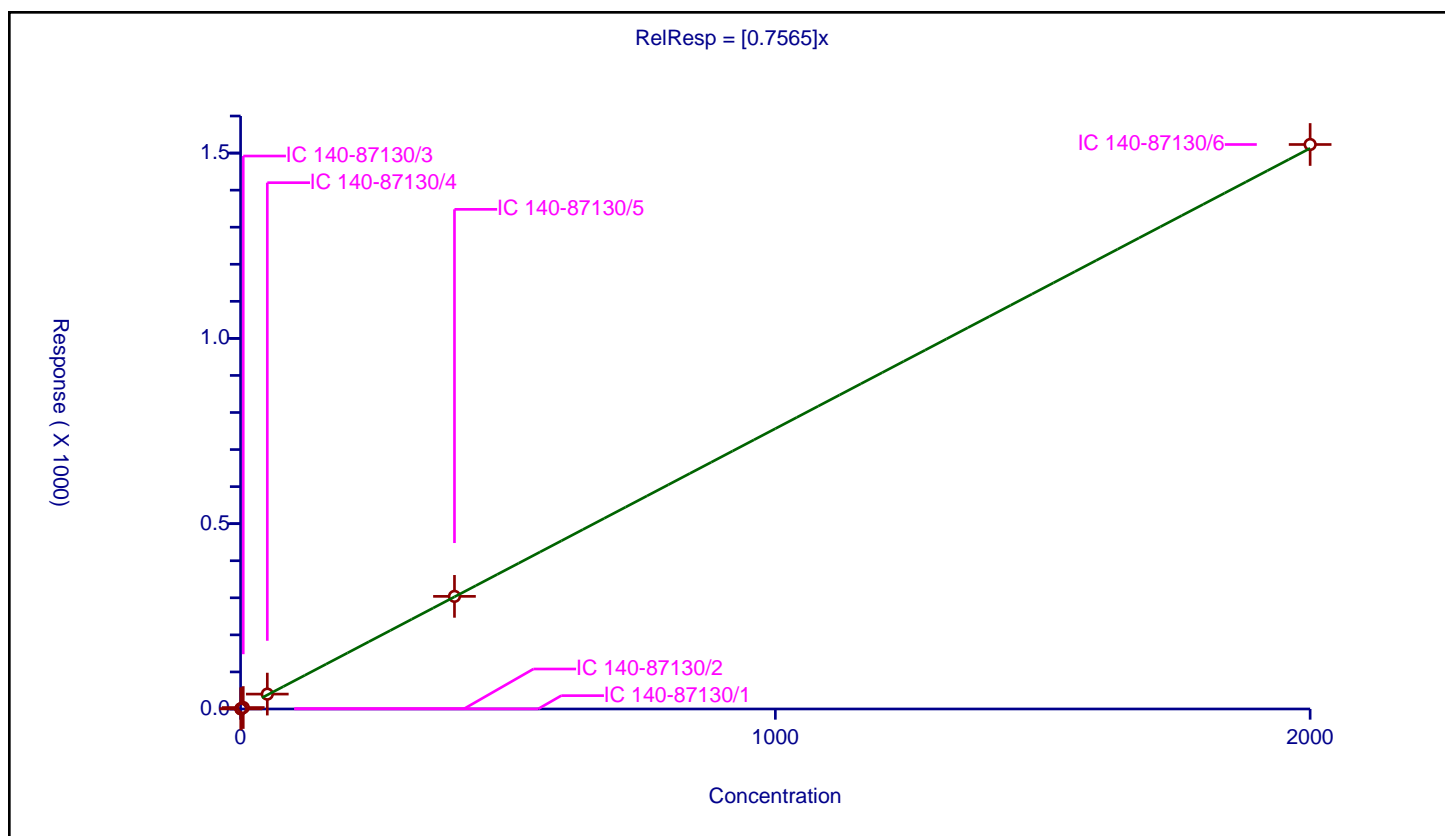
## Curve Coefficients

Intercept: 0  
 Slope: 0.7565

## Error Coefficients

Relative Standard Deviation: 5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.346314	100.0	7116082.0	0.692628	Y
2	IC 140-87130/2	1.0	0.731823	100.0	6585200.0	0.731823	Y
3	IC 140-87130/3	5.0	3.946692	100.0	6664037.0	0.789338	Y
4	IC 140-87130/4	50.0	40.182228	100.0	6587579.0	0.803645	Y
5	IC 140-87130/5	400.0	303.913739	100.0	7006215.0	0.759784	Y
6	IC 140-87130/6	2000.0	1523.171748	100.0	7440630.0	0.761586	Y



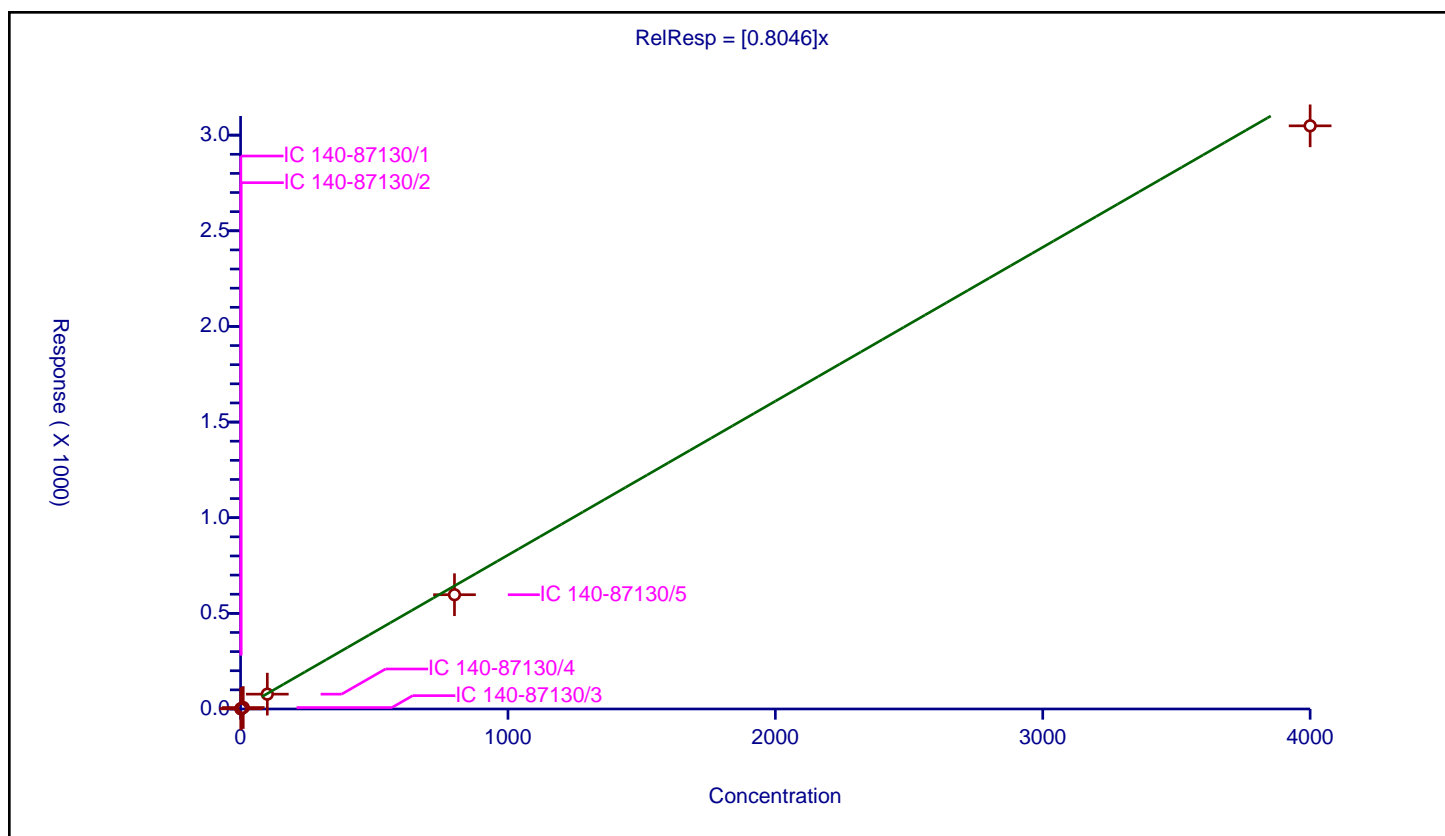
**/ PCB-183**

### Curve Coefficients

### Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.903503	100.0	7116082.0	0.903503	Y
2	IC 140-87130/2	2.0	1.760584	100.0	6585200.0	0.880292	Y
3	IC 140-87130/3	10.0	7.585957	100.0	6664037.0	0.758596	Y
4	IC 140-87130/4	100.0	77.639039	100.0	6587579.0	0.77639	Y
5	IC 140-87130/5	800.0	597.381539	100.0	7006215.0	0.746727	Y
6	IC 140-87130/6	4000.0	3048.699707	100.0	7440630.0	0.762175	Y



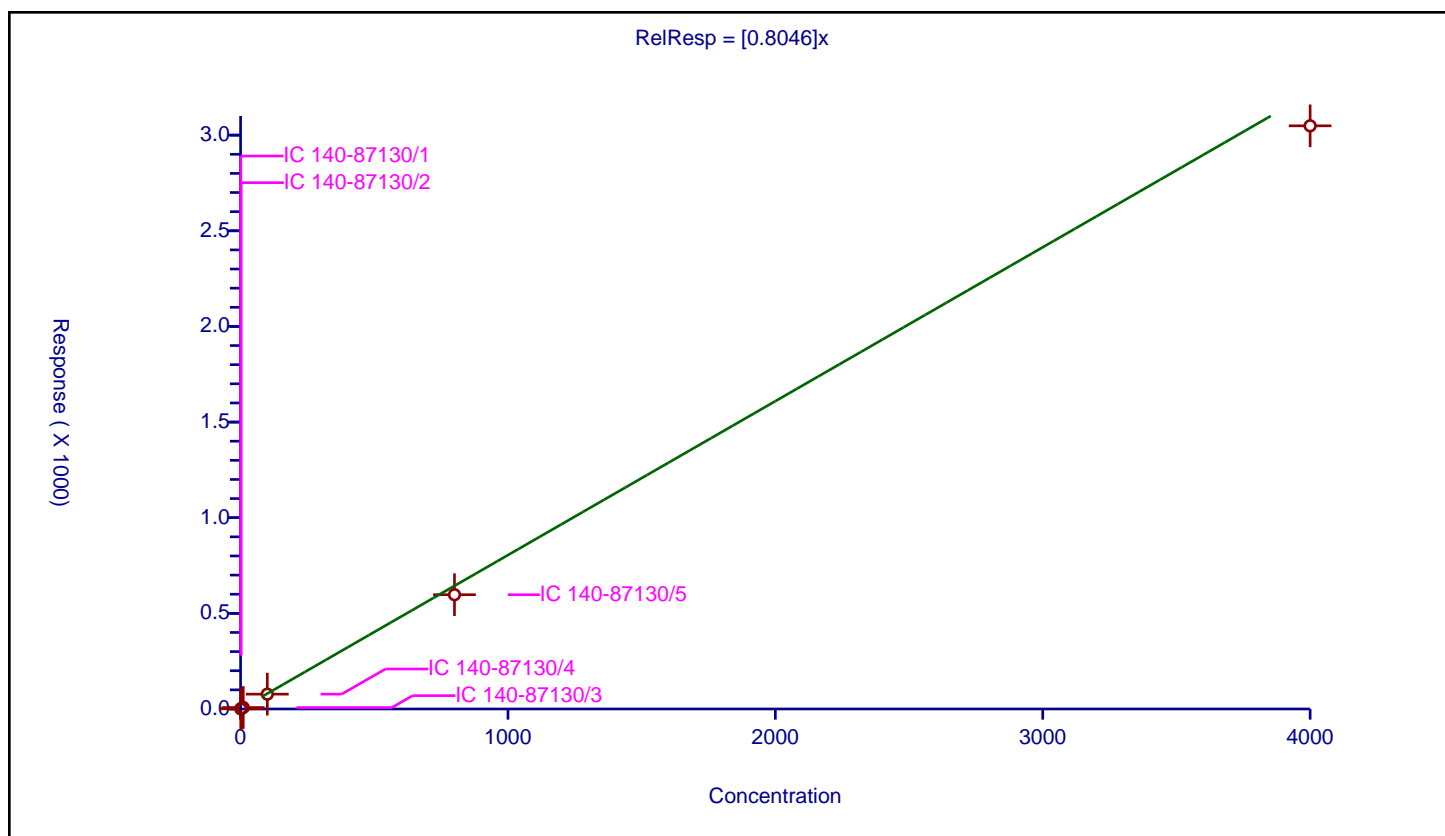
**/ PCB-183/185**

## Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.903503	100.0	7116082.0	0.903503	Y
2	IC 140-87130/2	2.0	1.760584	100.0	6585200.0	0.880292	Y
3	IC 140-87130/3	10.0	7.585957	100.0	6664037.0	0.758596	Y
4	IC 140-87130/4	100.0	77.639039	100.0	6587579.0	0.77639	Y
5	IC 140-87130/5	800.0	597.381539	100.0	7006215.0	0.746727	Y
6	IC 140-87130/6	4000.0	3048.699707	100.0	7440630.0	0.762175	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

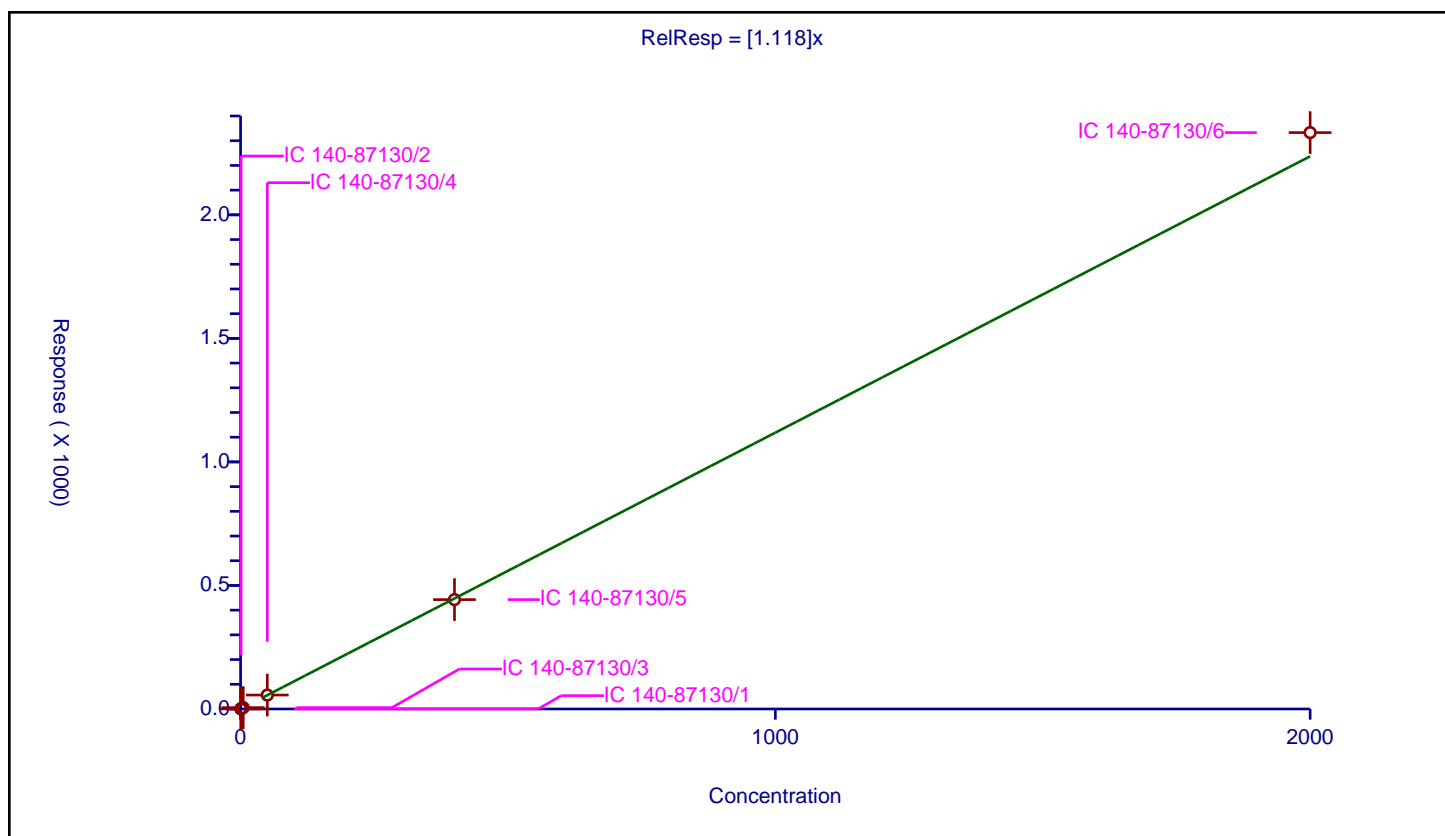
## Curve Coefficients

Intercept: 0  
Slope: 1.118

## Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.535885	100.0	7116082.0	1.07177	Y
2	IC 140-87130/2	1.0	1.125995	100.0	6585200.0	1.125995	Y
3	IC 140-87130/3	5.0	5.558913	100.0	6664037.0	1.111783	Y
4	IC 140-87130/4	50.0	56.38639	100.0	6587579.0	1.127728	Y
5	IC 140-87130/5	400.0	442.725409	100.0	7006215.0	1.106814	Y
6	IC 140-87130/6	2000.0	2332.867311	100.0	7440630.0	1.166434	Y





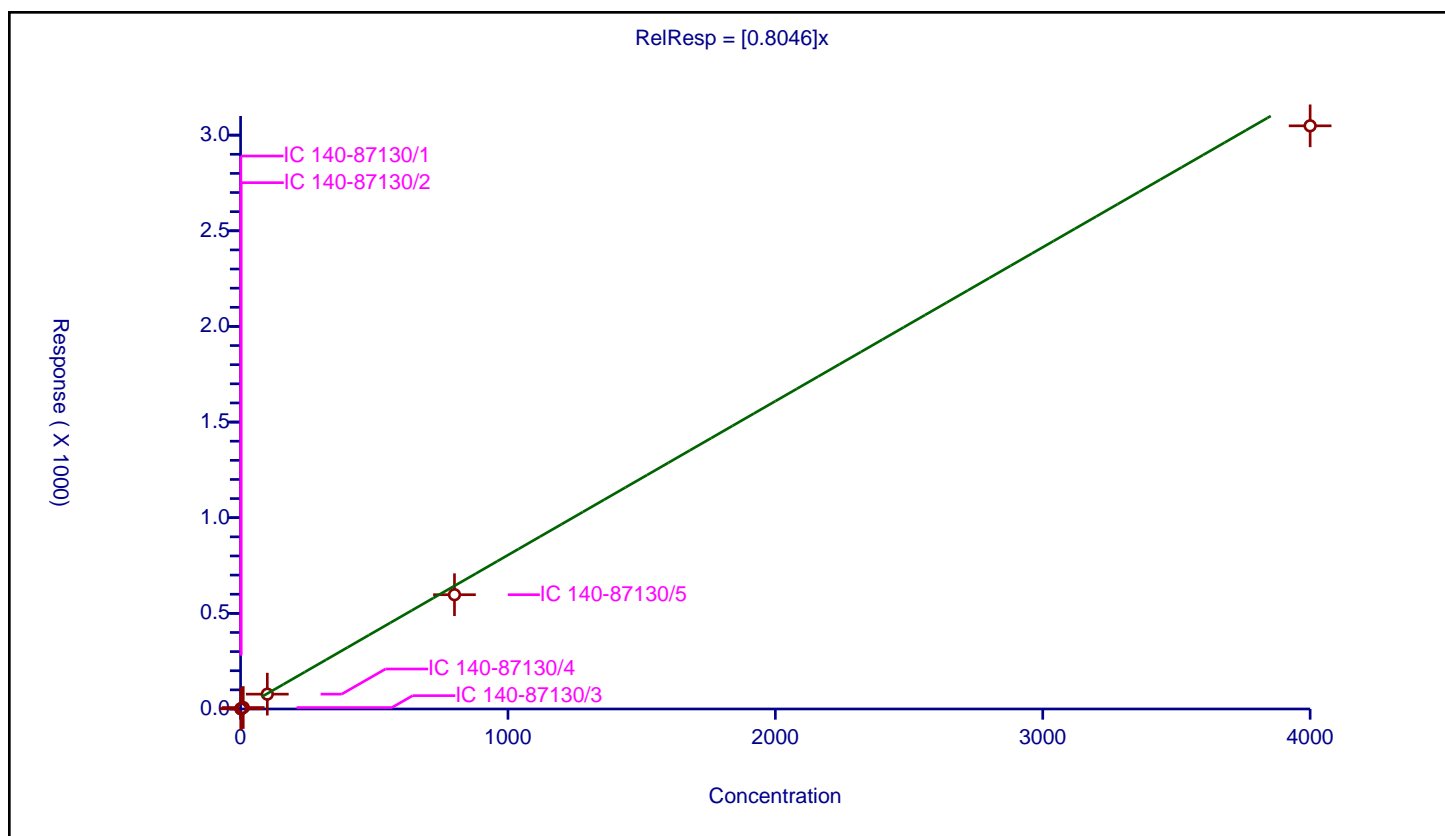
**/ PCB-185**

### Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.903503	100.0	7116082.0	0.903503	Y
2	IC 140-87130/2	2.0	1.760584	100.0	6585200.0	0.880292	Y
3	IC 140-87130/3	10.0	7.585957	100.0	6664037.0	0.758596	Y
4	IC 140-87130/4	100.0	77.639039	100.0	6587579.0	0.77639	Y
5	IC 140-87130/5	800.0	597.381539	100.0	7006215.0	0.746727	Y
6	IC 140-87130/6	4000.0	3048.699707	100.0	7440630.0	0.762175	Y



## / PCB-186

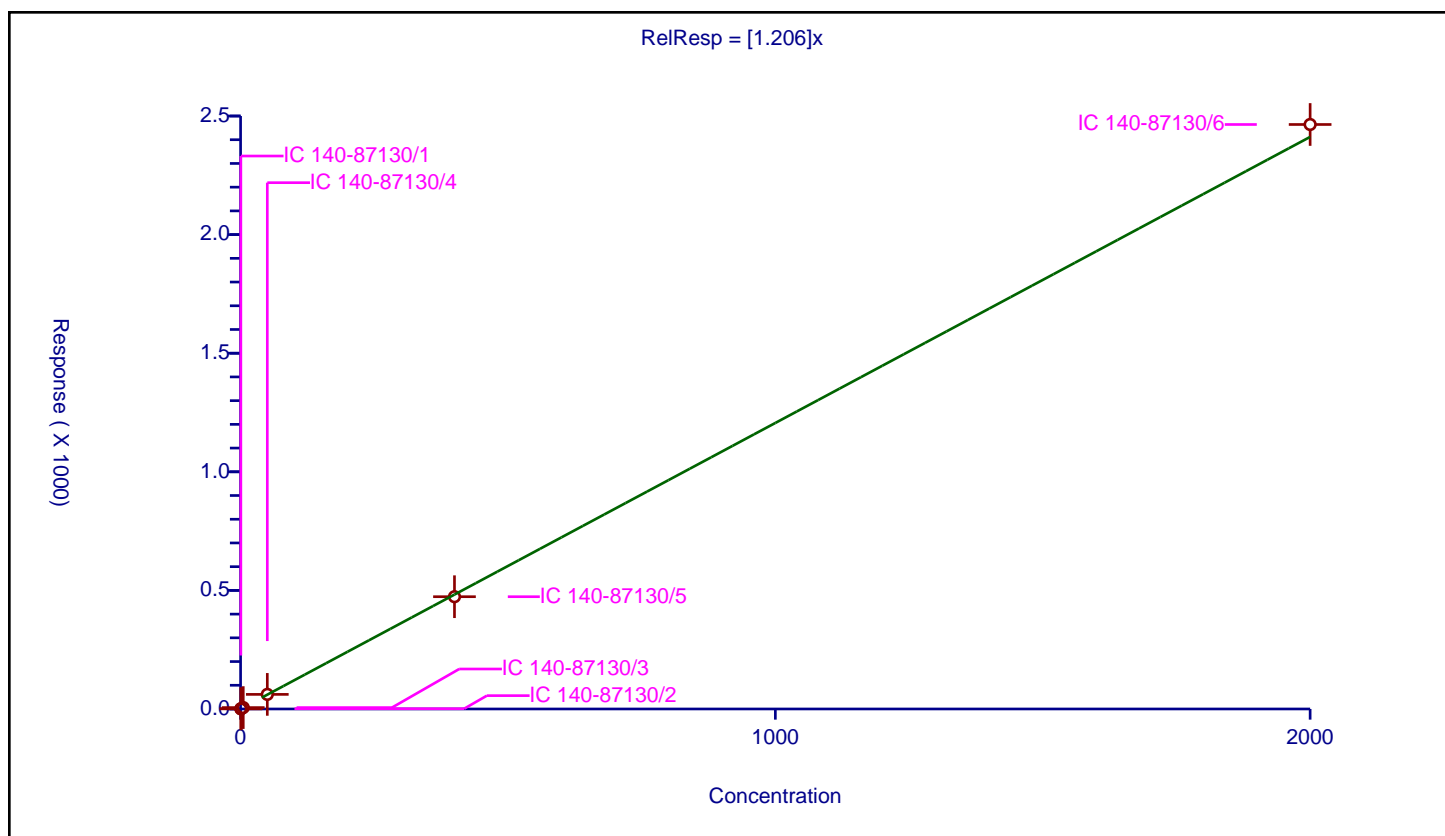
Curve Coefficients	
Intercept:	0
Slope:	1.206

**Error Coefficients**

---

**Relative Standard Deviation:** 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.628604	100.0	7116082.0	1.257209	Y
2	IC 140-87130/2	1.0	1.149077	100.0	6585200.0	1.149077	Y
3	IC 140-87130/3	5.0	5.918064	100.0	6664037.0	1.183613	Y
4	IC 140-87130/4	50.0	61.502352	100.0	6587579.0	1.230047	Y
5	IC 140-87130/5	400.0	473.346622	100.0	7006215.0	1.183367	Y
6	IC 140-87130/6	2000.0	2464.281049	100.0	7440630.0	1.232141	Y



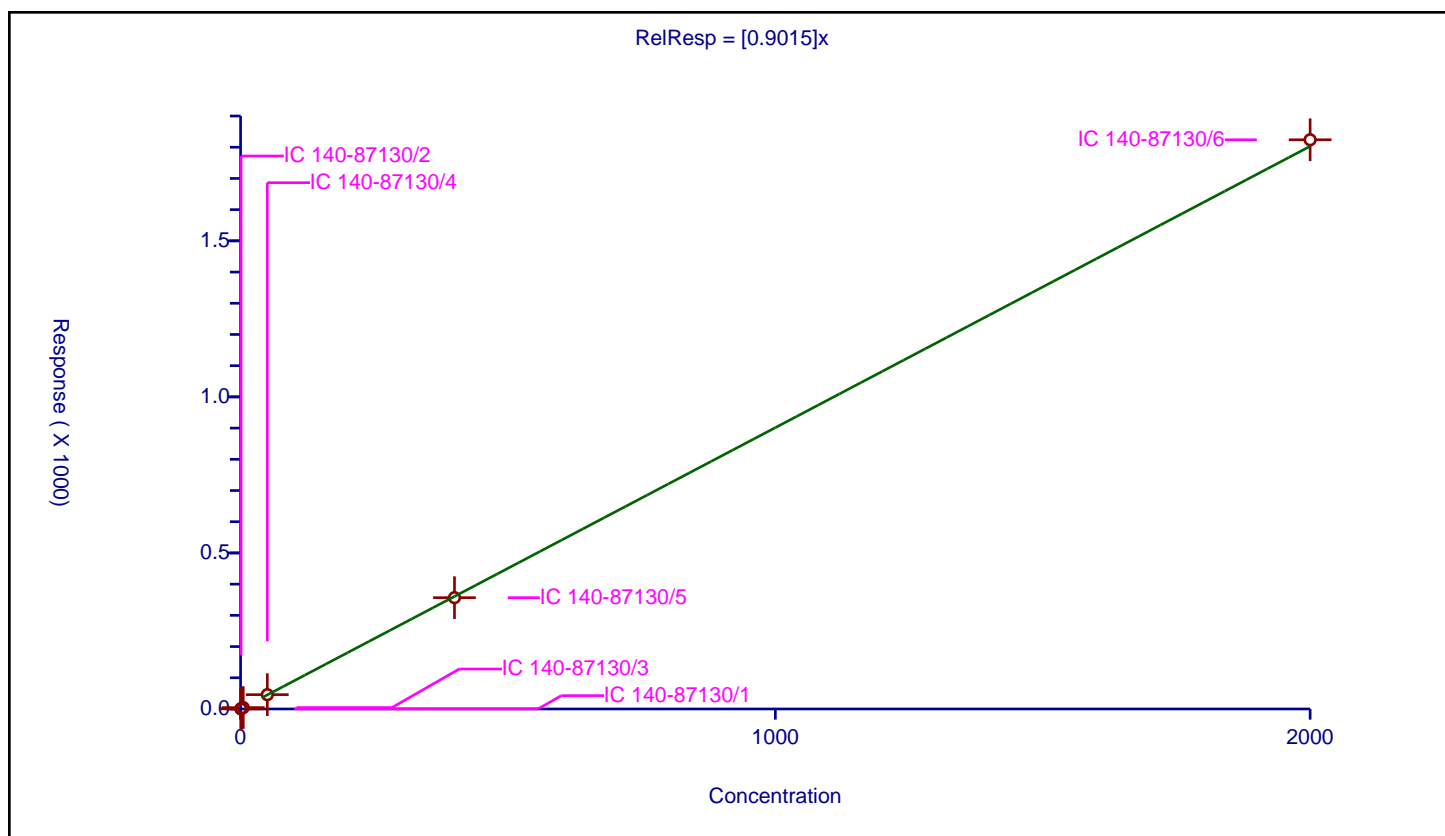
## / PCB-187

### Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.436364	100.0	7116082.0	0.872727	Y
2	IC 140-87130/2	1.0	0.925348	100.0	6585200.0	0.925348	Y
3	IC 140-87130/3	5.0	4.447409	100.0	6664037.0	0.889482	Y
4	IC 140-87130/4	50.0	45.892945	100.0	6587579.0	0.917859	Y
5	IC 140-87130/5	400.0	356.673596	100.0	7006215.0	0.891684	Y
6	IC 140-87130/6	2000.0	1823.906779	100.0	7440630.0	0.911953	Y



# Calibration

/ PCB-188

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

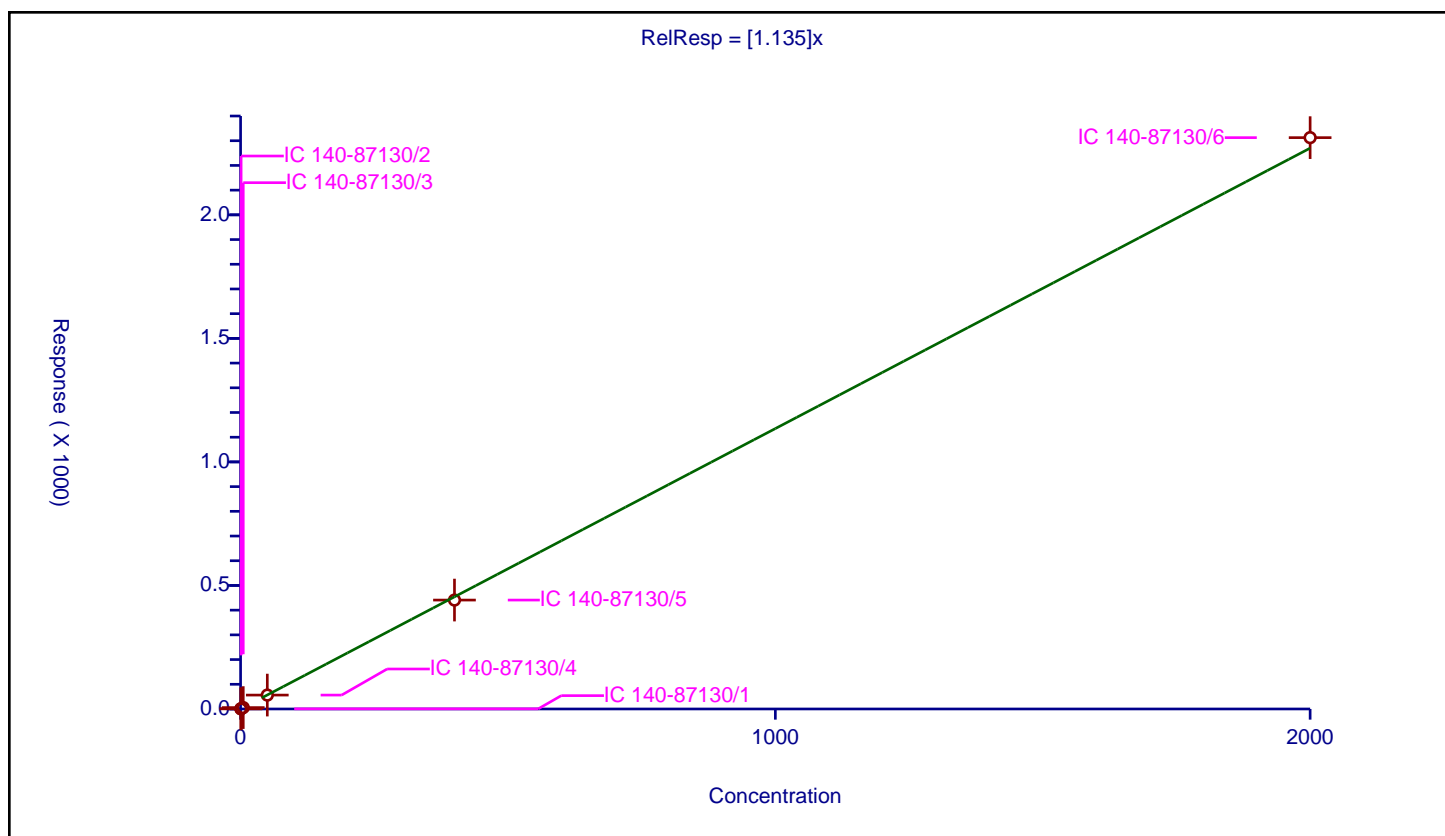
## Curve Coefficients

Intercept: 0  
Slope: 1.135

## Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.557793	100.0	7116082.0	1.115586	Y
2	IC 140-87130/2	1.0	1.170443	100.0	6585200.0	1.170443	Y
3	IC 140-87130/3	5.0	5.700374	100.0	6664037.0	1.140075	Y
4	IC 140-87130/4	50.0	56.267105	100.0	6587579.0	1.125342	Y
5	IC 140-87130/5	400.0	440.837985	100.0	7006215.0	1.102095	Y
6	IC 140-87130/6	2000.0	2312.414809	100.0	7440630.0	1.156207	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

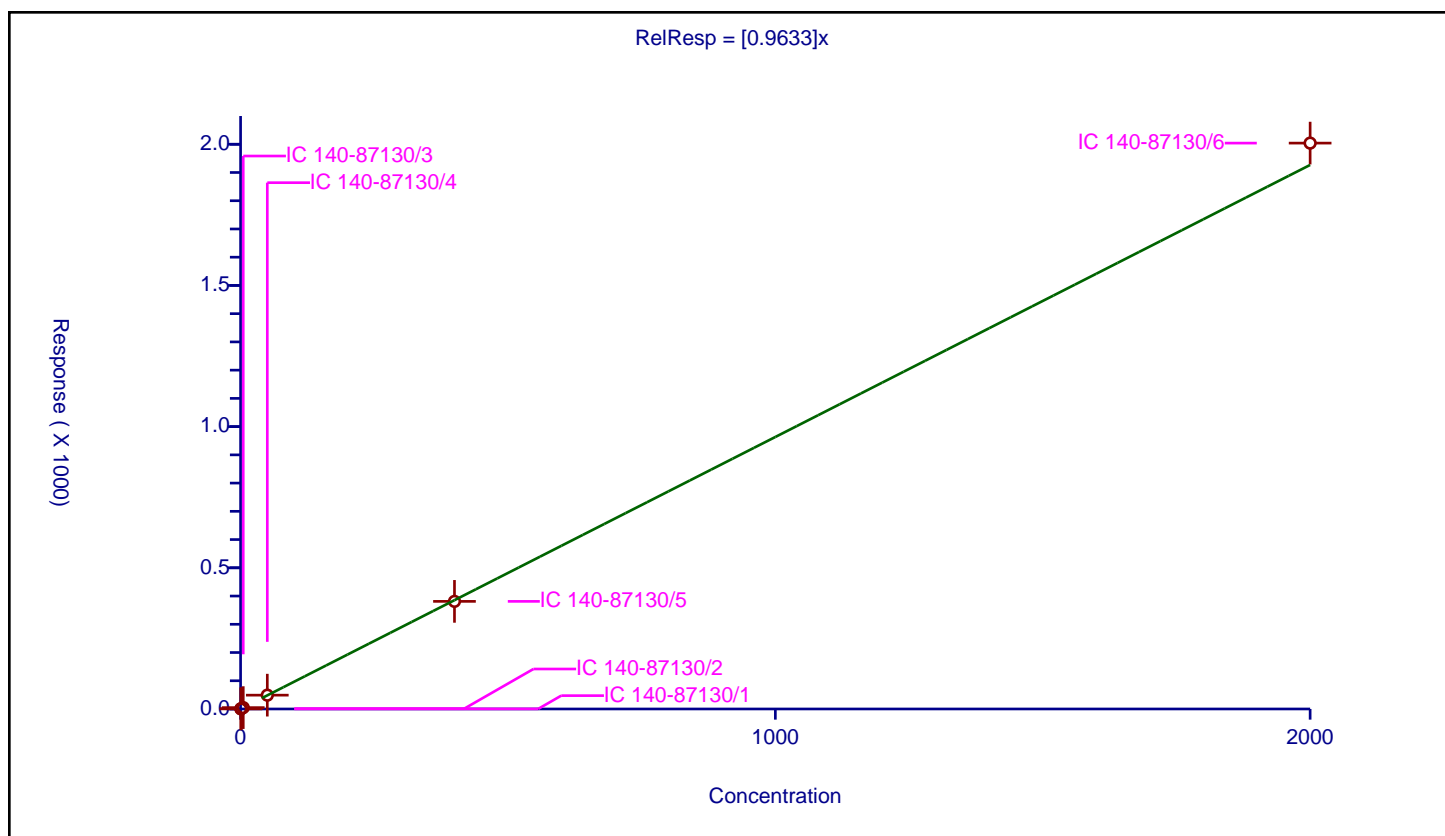
## Curve Coefficients

Intercept: 0  
Slope: 0.9633

## Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.468643	100.0	11329298.0	0.937287	Y
2	IC 140-87130/2	1.0	0.945522	100.0	10353644.0	0.945522	Y
3	IC 140-87130/3	5.0	4.818192	100.0	10235768.0	0.963638	Y
4	IC 140-87130/4	50.0	48.940921	100.0	10070777.0	0.978818	Y
5	IC 140-87130/5	400.0	381.078351	100.0	10502203.0	0.952696	Y
6	IC 140-87130/6	2000.0	2004.065707	100.0	11047526.0	1.002033	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

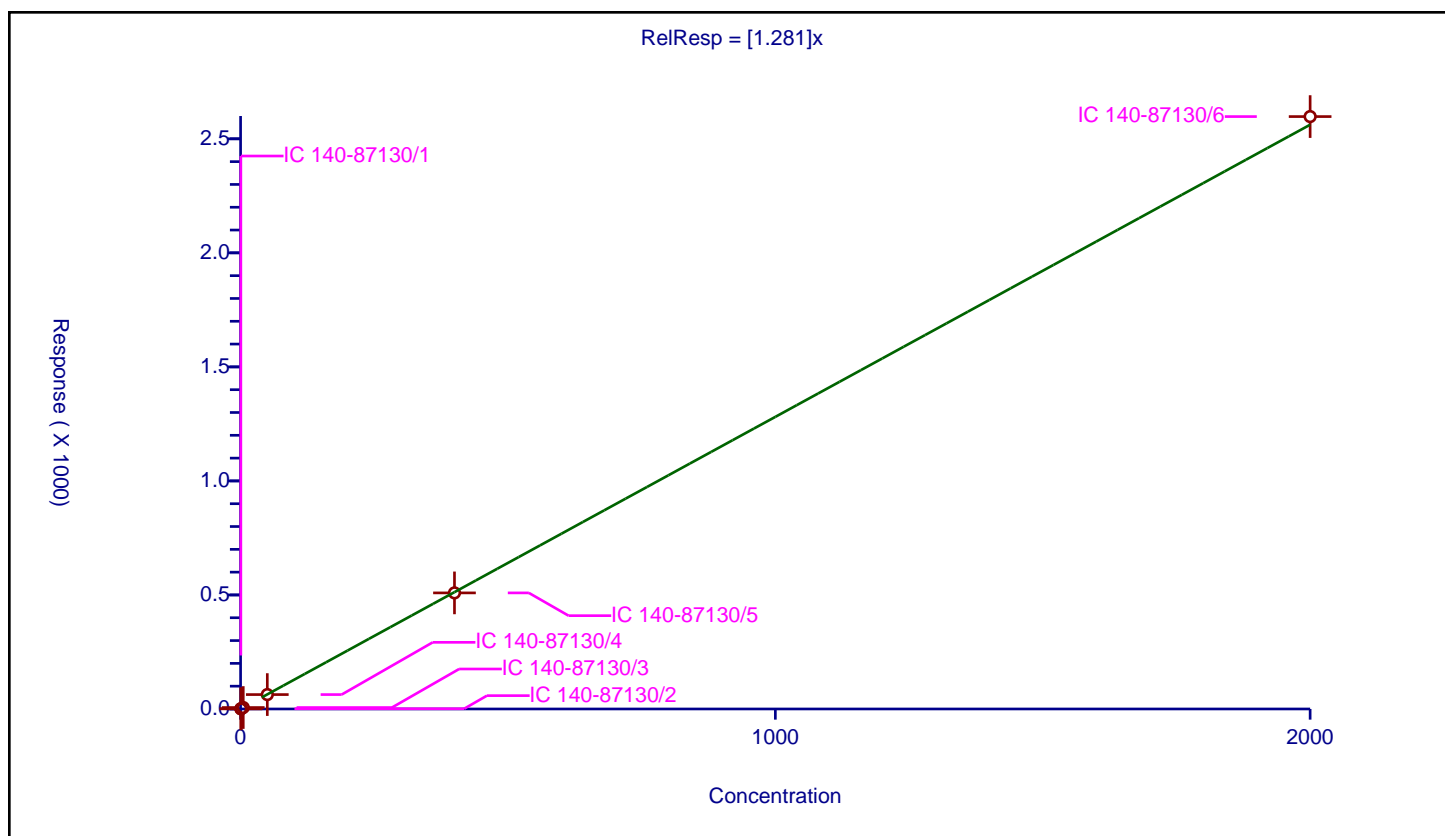
## Curve Coefficients

Intercept: 0  
Slope: 1.281

## Error Coefficients

Relative Standard Deviation: 9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.734093	100.0	3711790.0	1.468187	Y
2	IC 140-87130/2	1.0	1.107786	100.0	3424036.0	1.107786	Y
3	IC 140-87130/3	5.0	6.371947	100.0	3389482.0	1.274389	Y
4	IC 140-87130/4	50.0	63.176031	100.0	3406868.0	1.263521	Y
5	IC 140-87130/5	400.0	509.085164	100.0	3537933.0	1.272713	Y
6	IC 140-87130/6	2000.0	2597.600235	100.0	3634856.0	1.2988	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

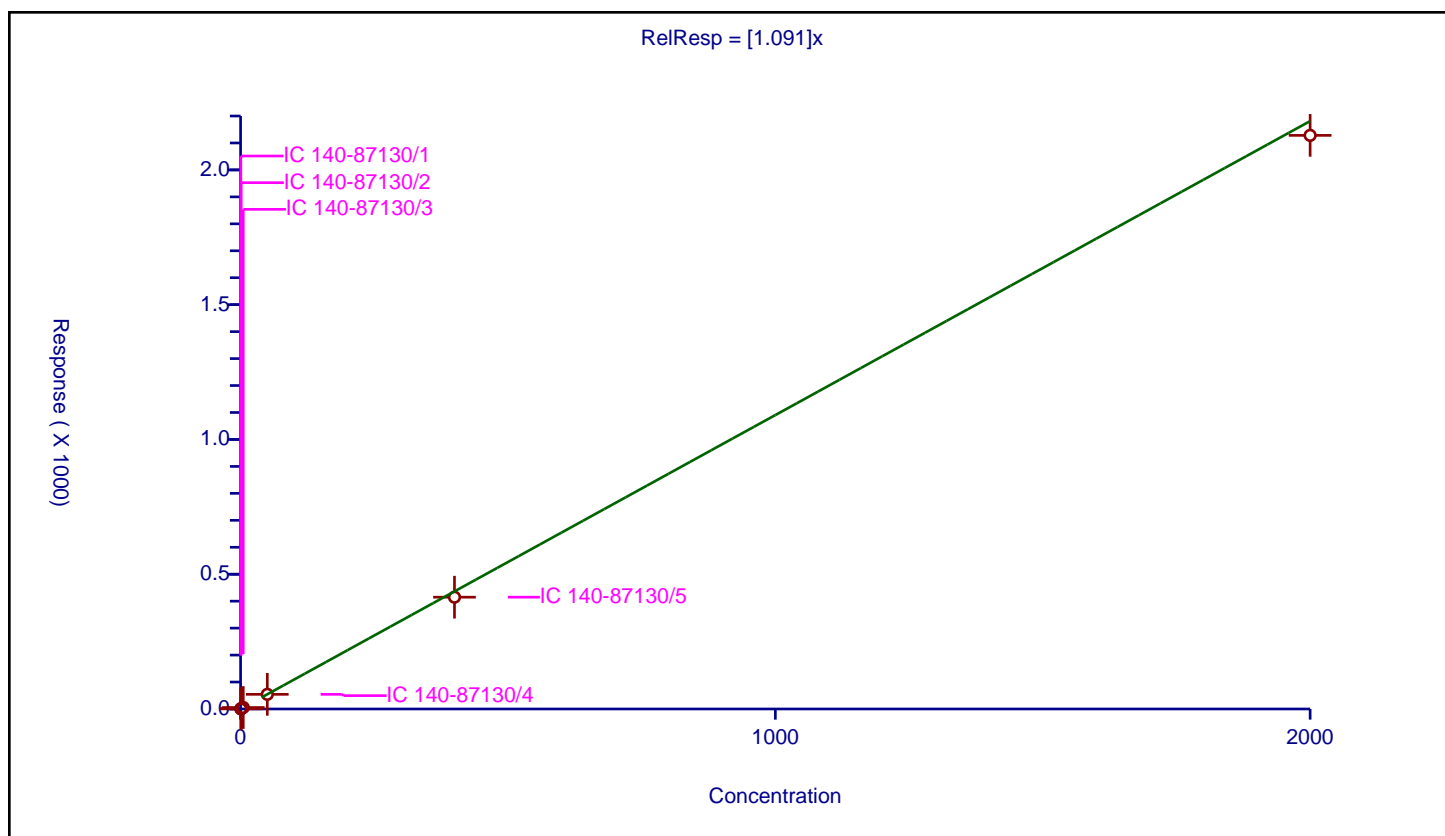
## Curve Coefficients

Intercept: 0  
Slope: 1.091

## Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.563751	100.0	7116082.0	1.127502	Y
2	IC 140-87130/2	1.0	1.132585	100.0	6585200.0	1.132585	Y
3	IC 140-87130/3	5.0	5.472809	100.0	6664037.0	1.094562	Y
4	IC 140-87130/4	50.0	54.377261	100.0	6587579.0	1.087545	Y
5	IC 140-87130/5	400.0	414.827564	100.0	7006215.0	1.037069	Y
6	IC 140-87130/6	2000.0	2128.212598	100.0	7440630.0	1.064106	Y



# Calibration

/ PCB-191

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

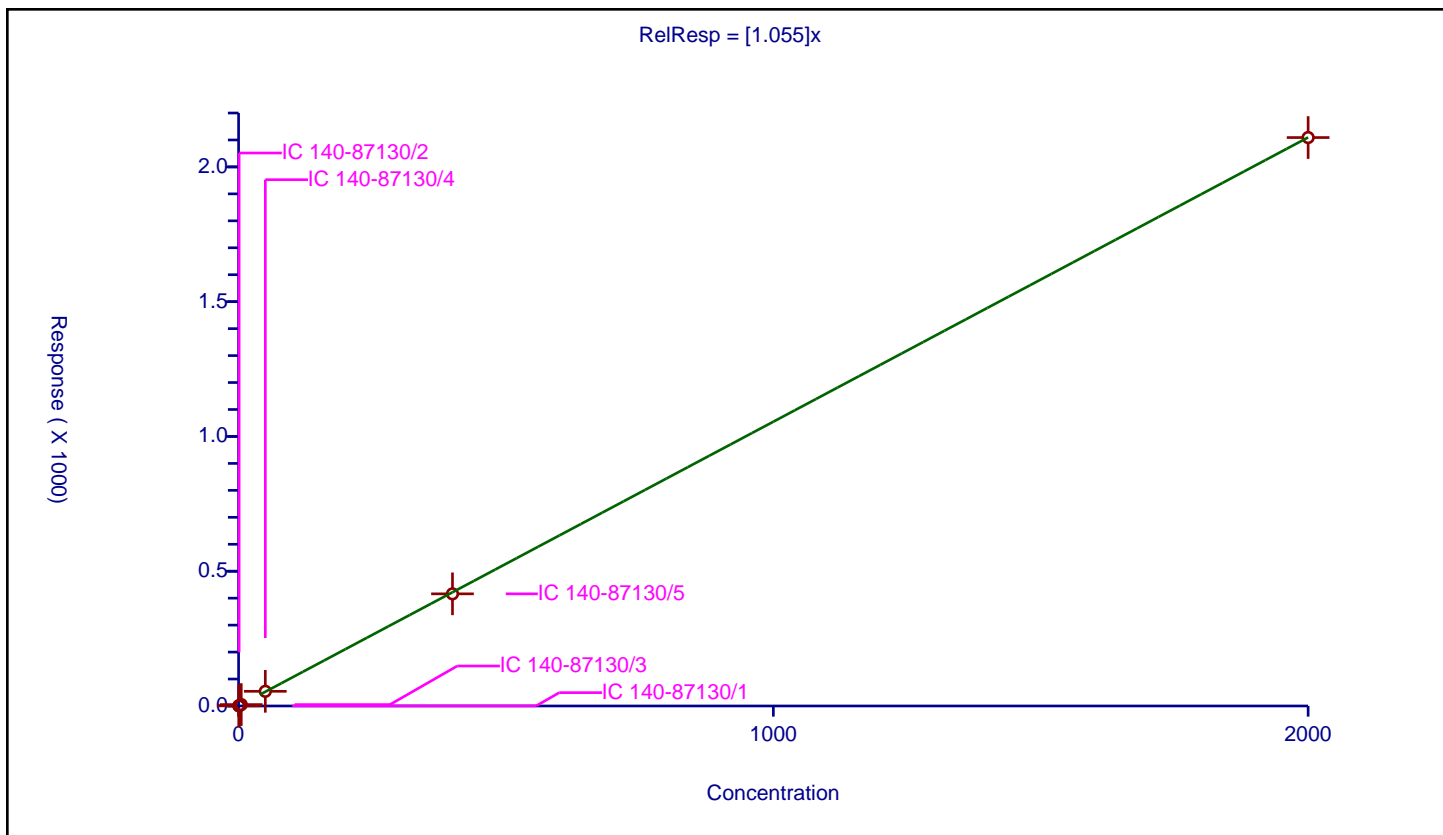
## Curve Coefficients

Intercept: 0  
Slope: 1.055

## Error Coefficients

Relative Standard Deviation: 3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.494977	100.0	7116082.0	0.989955	Y
2	IC 140-87130/2	1.0	1.108121	100.0	6585200.0	1.108121	Y
3	IC 140-87130/3	5.0	5.228152	100.0	6664037.0	1.04563	Y
4	IC 140-87130/4	50.0	54.504819	100.0	6587579.0	1.090096	Y
5	IC 140-87130/5	400.0	416.049764	100.0	7006215.0	1.040124	Y
6	IC 140-87130/6	2000.0	2108.943127	100.0	7440630.0	1.054472	Y





# Calibration

/ PCB-192

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

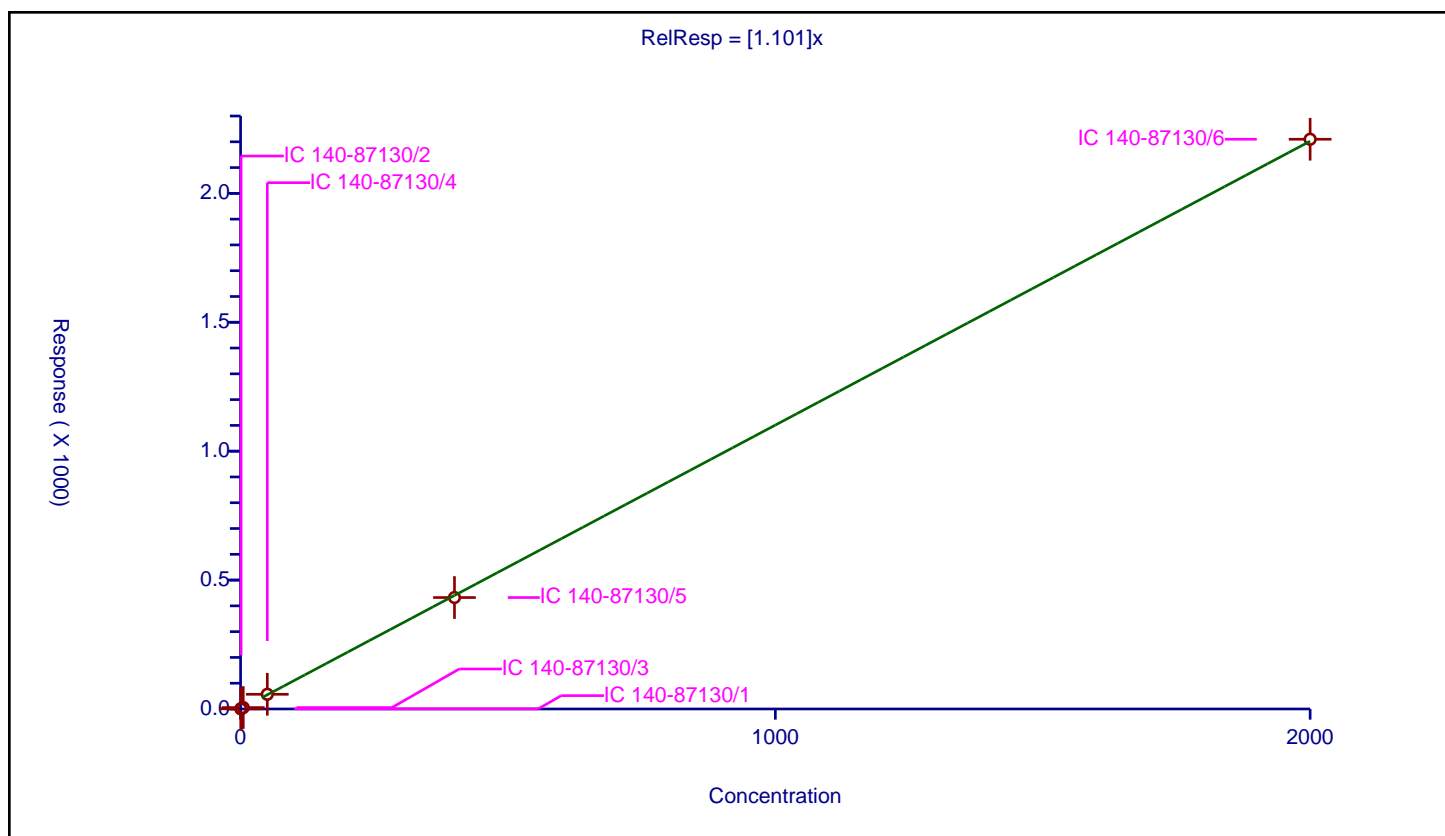
## Curve Coefficients

Intercept: 0  
 Slope: 1.101

## Error Coefficients

Relative Standard Deviation: 3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.520286	100.0	7116082.0	1.040573	Y
2	IC 140-87130/2	1.0	1.140785	100.0	6585200.0	1.140785	Y
3	IC 140-87130/3	5.0	5.494882	100.0	6664037.0	1.098976	Y
4	IC 140-87130/4	50.0	57.04891	100.0	6587579.0	1.140978	Y
5	IC 140-87130/5	400.0	432.344697	100.0	7006215.0	1.080862	Y
6	IC 140-87130/6	2000.0	2209.879217	100.0	7440630.0	1.10494	Y



# Calibration

/ PCB-193

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

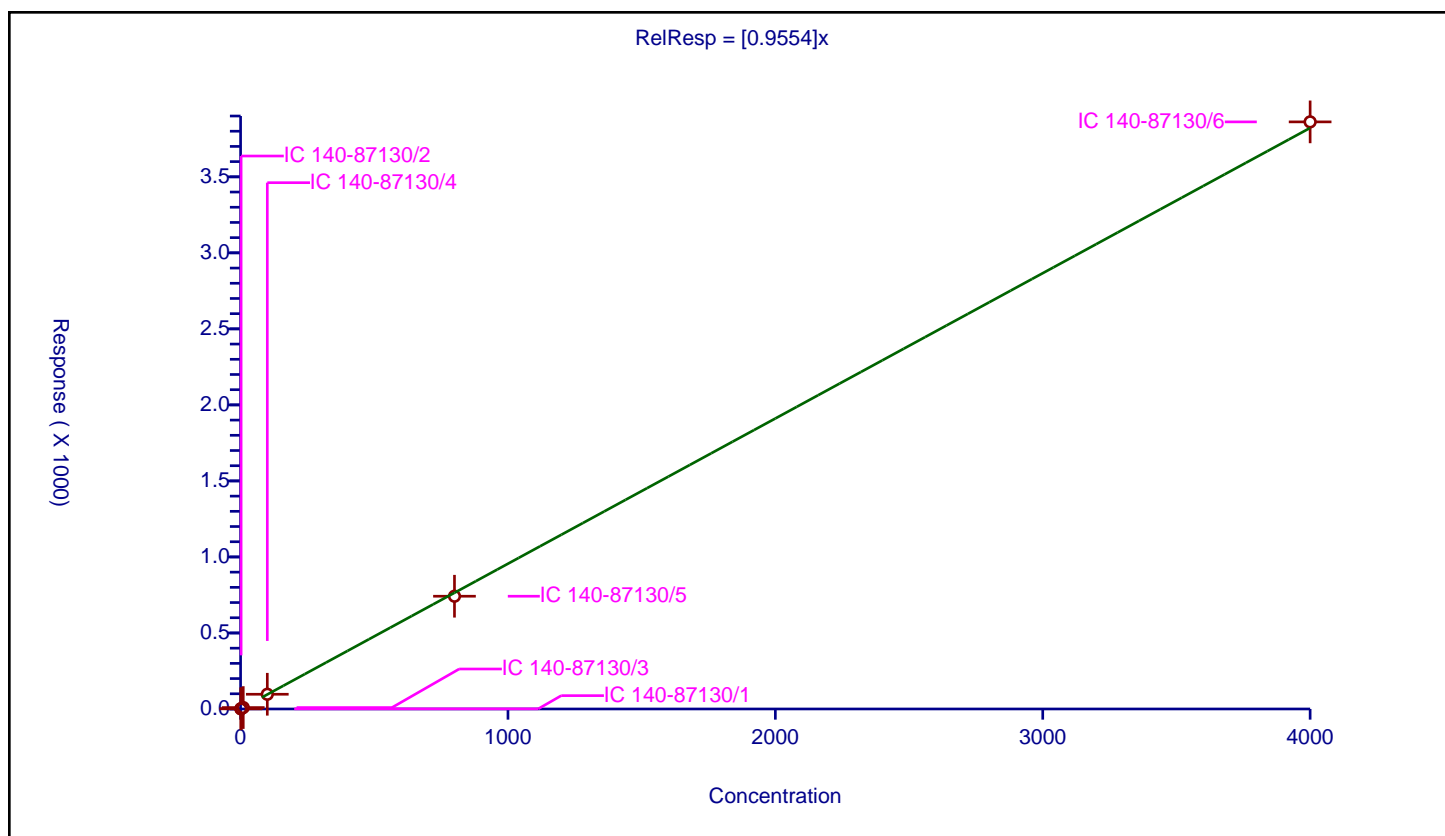
## Curve Coefficients

Intercept: 0  
Slope: 0.9554

## Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.940616	100.0	7116082.0	0.940616	Y
2	IC 140-87130/2	2.0	1.980942	100.0	6585200.0	0.990471	Y
3	IC 140-87130/3	10.0	9.403114	100.0	6664037.0	0.940311	Y
4	IC 140-87130/4	100.0	96.857131	100.0	6587579.0	0.968571	Y
5	IC 140-87130/5	800.0	741.672886	100.0	7006215.0	0.927091	Y
6	IC 140-87130/6	4000.0	3861.399881	100.0	7440630.0	0.96535	Y



## Calibration

/ PCB-194

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

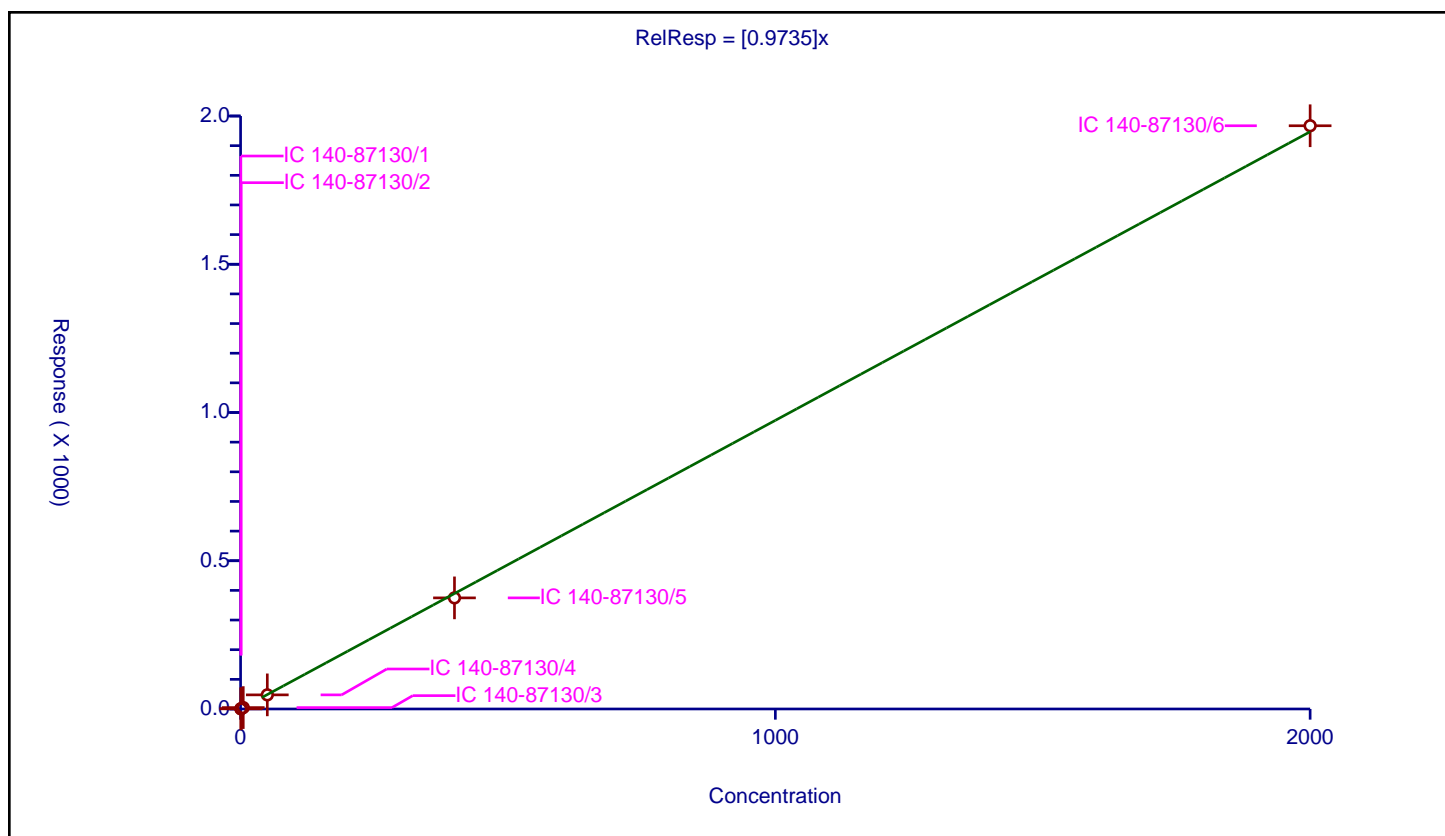
## Curve Coefficients

Intercept: 0  
Slope: 0.9735

## Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.516466	100.0	9259085.0	1.032931	Y
2	IC 140-87130/2	1.0	0.999097	100.0	8466946.0	0.999097	Y
3	IC 140-87130/3	5.0	4.68423	100.0	8416261.0	0.936846	Y
4	IC 140-87130/4	50.0	47.585287	100.0	8337493.0	0.951706	Y
5	IC 140-87130/5	400.0	374.752675	100.0	8638618.0	0.936882	Y
6	IC 140-87130/6	2000.0	1967.154527	100.0	8823289.0	0.983577	Y



# Calibration

/ PCB-195

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

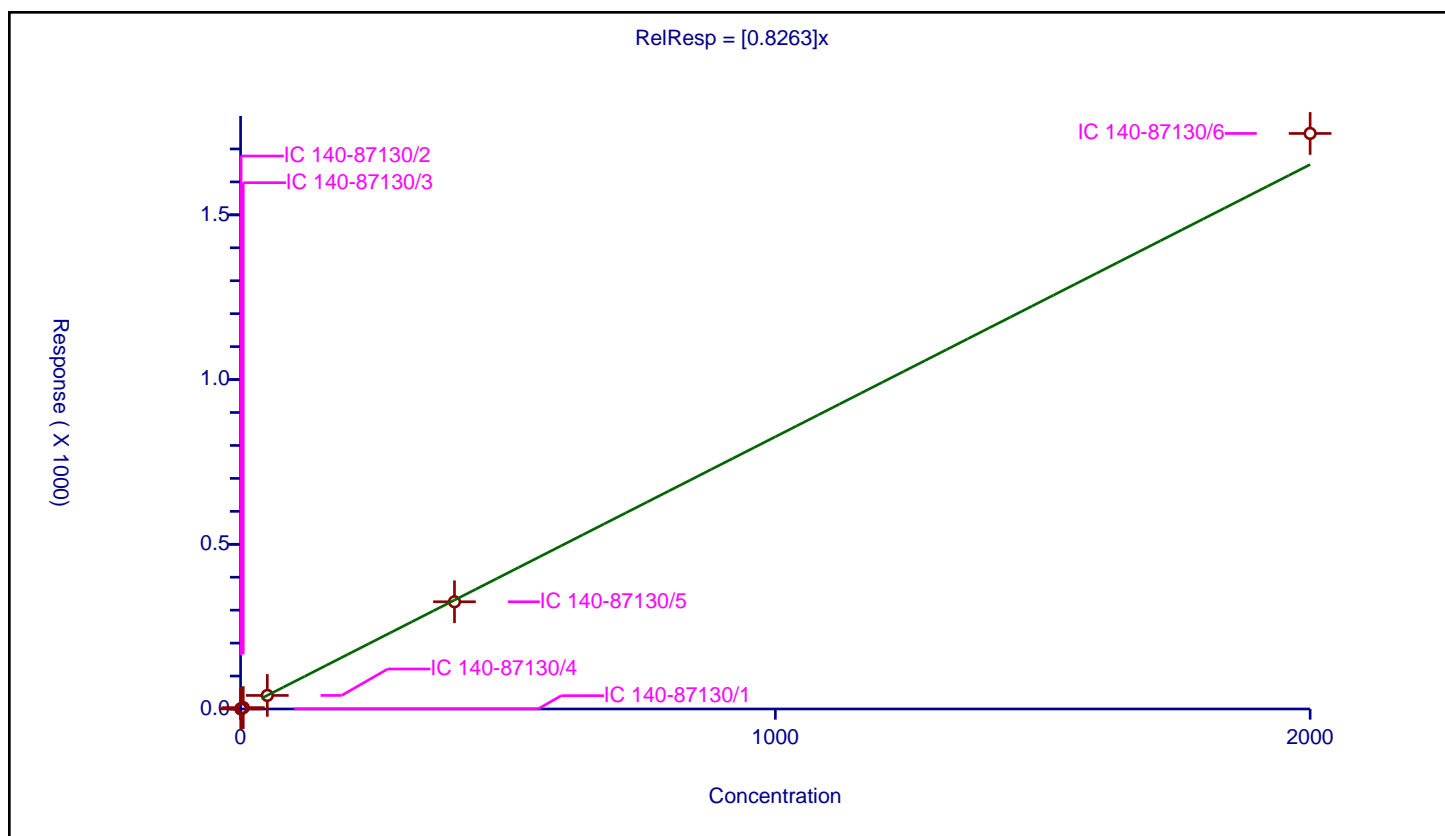
## Curve Coefficients

Intercept: 0  
 Slope: 0.8263

## Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.37022	100.0	9259085.0	0.74044	Y
2	IC 140-87130/2	1.0	0.879514	100.0	8466946.0	0.879514	Y
3	IC 140-87130/3	5.0	4.137823	100.0	8416261.0	0.827565	Y
4	IC 140-87130/4	50.0	41.162817	100.0	8337493.0	0.823256	Y
5	IC 140-87130/5	400.0	325.456769	100.0	8638618.0	0.813642	Y
6	IC 140-87130/6	2000.0	1747.0565	100.0	8823289.0	0.873528	Y



# Calibration

/ PCB-196

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

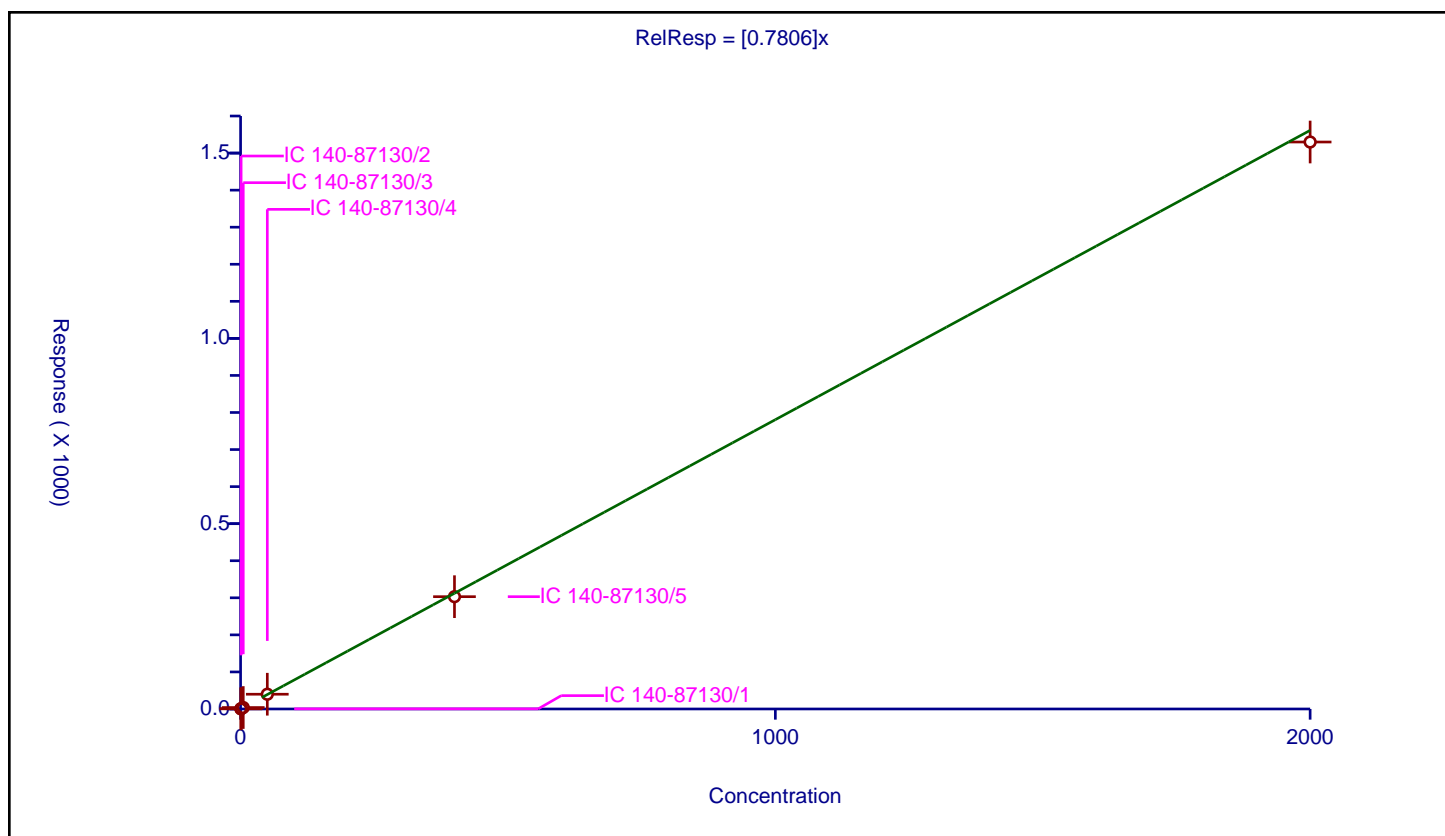
## Curve Coefficients

Intercept: 0  
 Slope: 0.7806

## Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.387234	100.0	5622444.0	0.774467	Y
2	IC 140-87130/2	1.0	0.808707	100.0	5103331.0	0.808707	Y
3	IC 140-87130/3	5.0	3.909539	100.0	5089577.0	0.781908	Y
4	IC 140-87130/4	50.0	39.809999	100.0	4754288.0	0.7962	Y
5	IC 140-87130/5	400.0	303.052393	100.0	5079458.0	0.757631	Y
6	IC 140-87130/6	2000.0	1529.853253	100.0	5299657.0	0.764927	Y



# Calibration

/ PCB-197

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

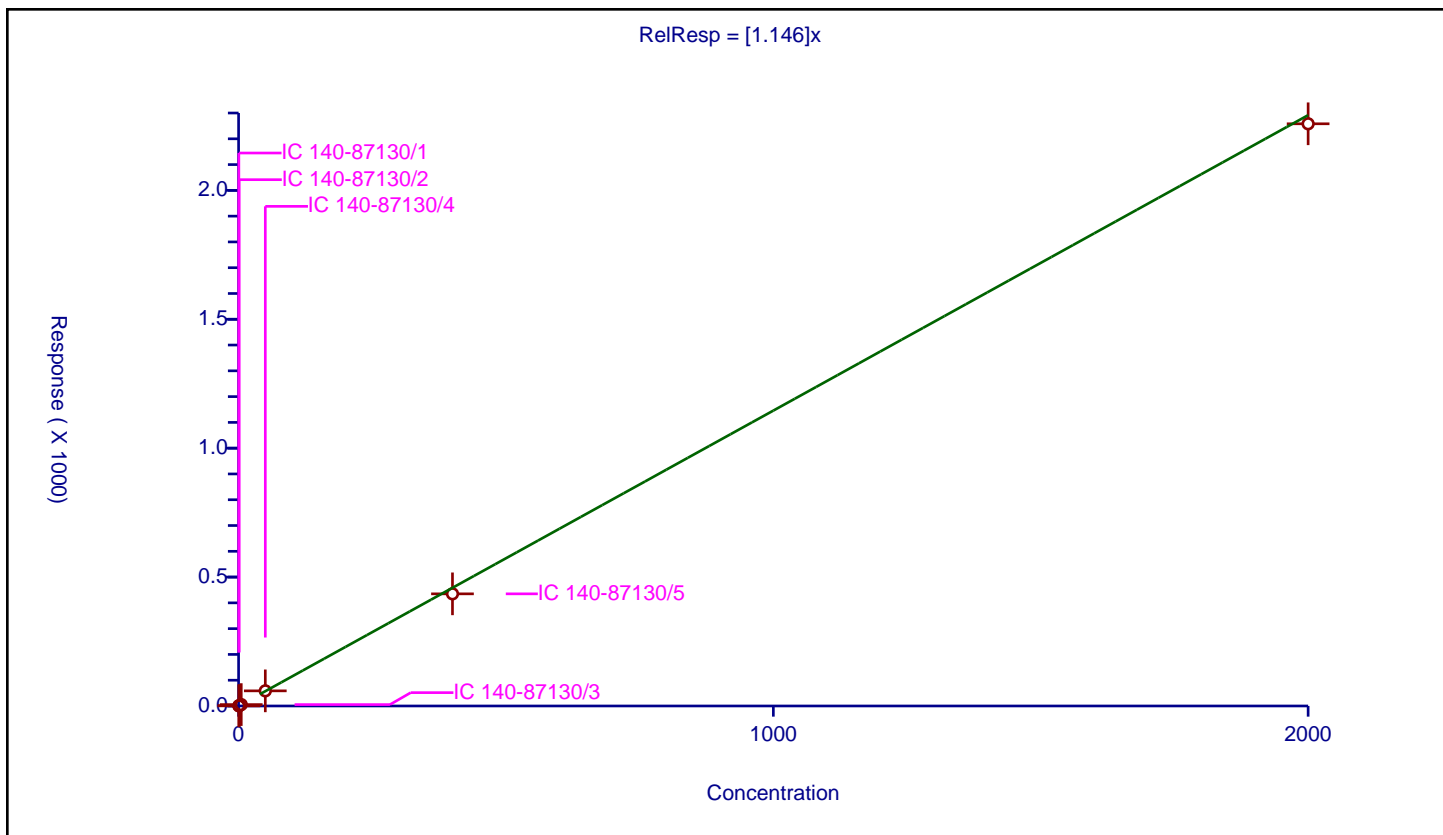
## Curve Coefficients

Intercept: 0  
 Slope: 1.146

## Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.614466	100.0	5622444.0	1.228932	Y
2	IC 140-87130/2	1.0	1.162123	100.0	5103331.0	1.162123	Y
3	IC 140-87130/3	5.0	5.464973	100.0	5089577.0	1.092995	Y
4	IC 140-87130/4	50.0	58.70349	100.0	4754288.0	1.17407	Y
5	IC 140-87130/5	400.0	434.995171	100.0	5079458.0	1.087488	Y
6	IC 140-87130/6	2000.0	2258.215975	100.0	5299657.0	1.129108	Y



# Calibration

/ PCB-198

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

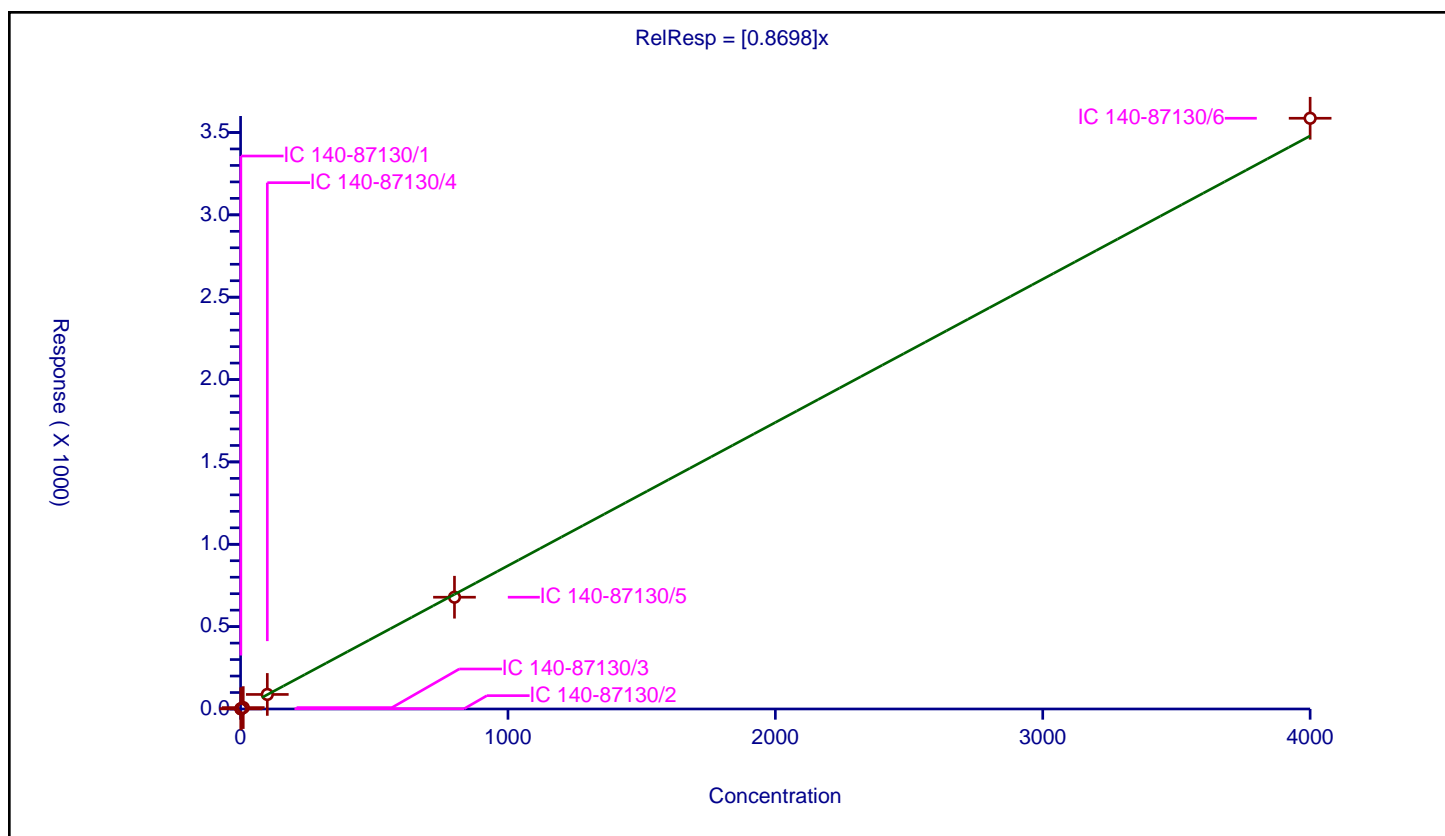
## Curve Coefficients

Intercept: 0  
Slope: 0.8698

## Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.881894	100.0	5622444.0	0.881894	Y
2	IC 140-87130/2	2.0	1.72697	100.0	5103331.0	0.863485	Y
3	IC 140-87130/3	10.0	8.456361	100.0	5089577.0	0.845636	Y
4	IC 140-87130/4	100.0	88.292758	100.0	4754288.0	0.882928	Y
5	IC 140-87130/5	800.0	678.541923	100.0	5079458.0	0.848177	Y
6	IC 140-87130/6	4000.0	3586.39161	100.0	5299657.0	0.896598	Y



# Calibration

/ PCB-198/199

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

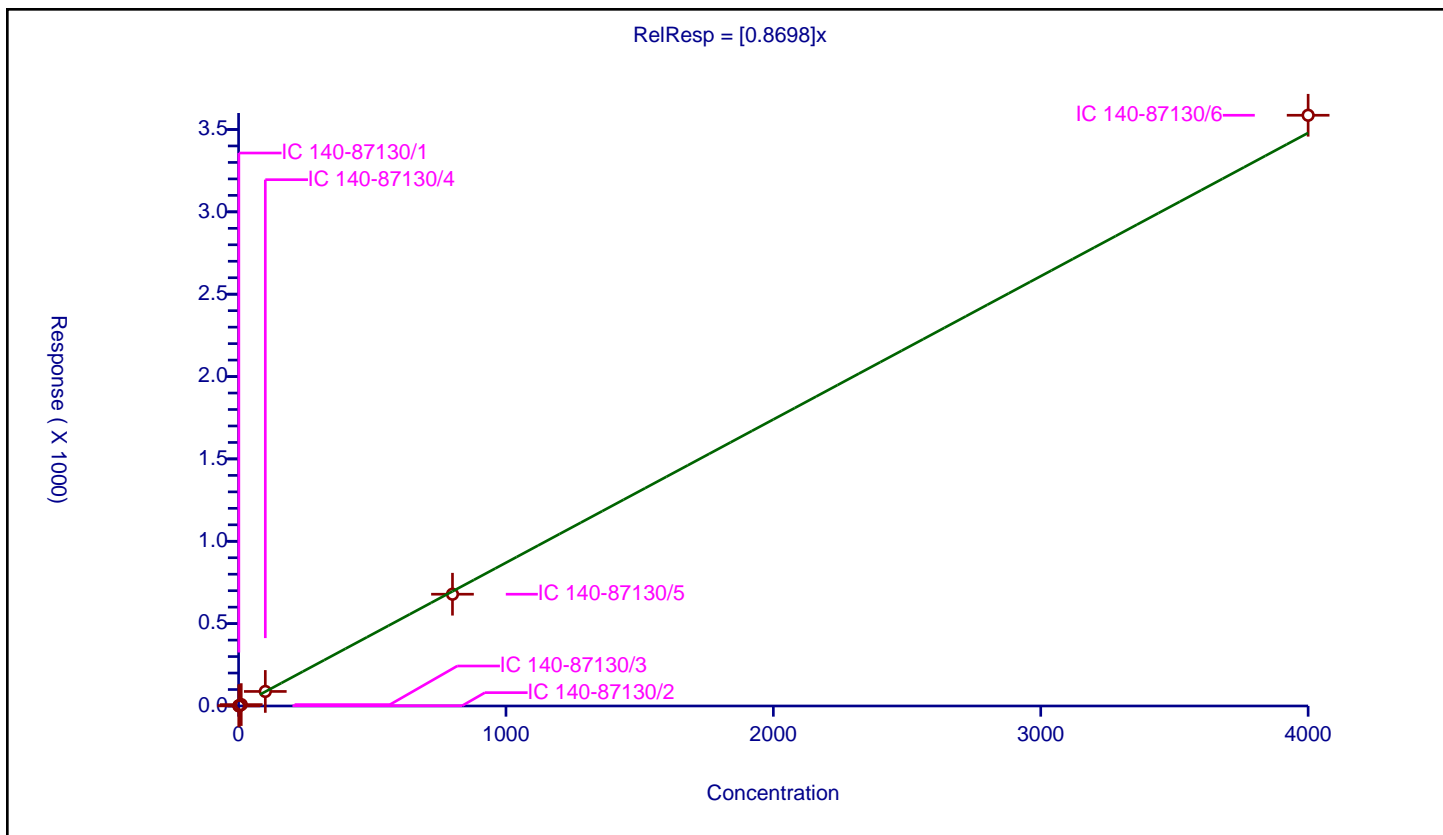
## Curve Coefficients

Intercept: 0  
 Slope: 0.8698

## Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.881894	100.0	5622444.0	0.881894	Y
2	IC 140-87130/2	2.0	1.72697	100.0	5103331.0	0.863485	Y
3	IC 140-87130/3	10.0	8.456361	100.0	5089577.0	0.845636	Y
4	IC 140-87130/4	100.0	88.292758	100.0	4754288.0	0.882928	Y
5	IC 140-87130/5	800.0	678.541923	100.0	5079458.0	0.848177	Y
6	IC 140-87130/6	4000.0	3586.39161	100.0	5299657.0	0.896598	Y





# Calibration

/ PCB-199

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

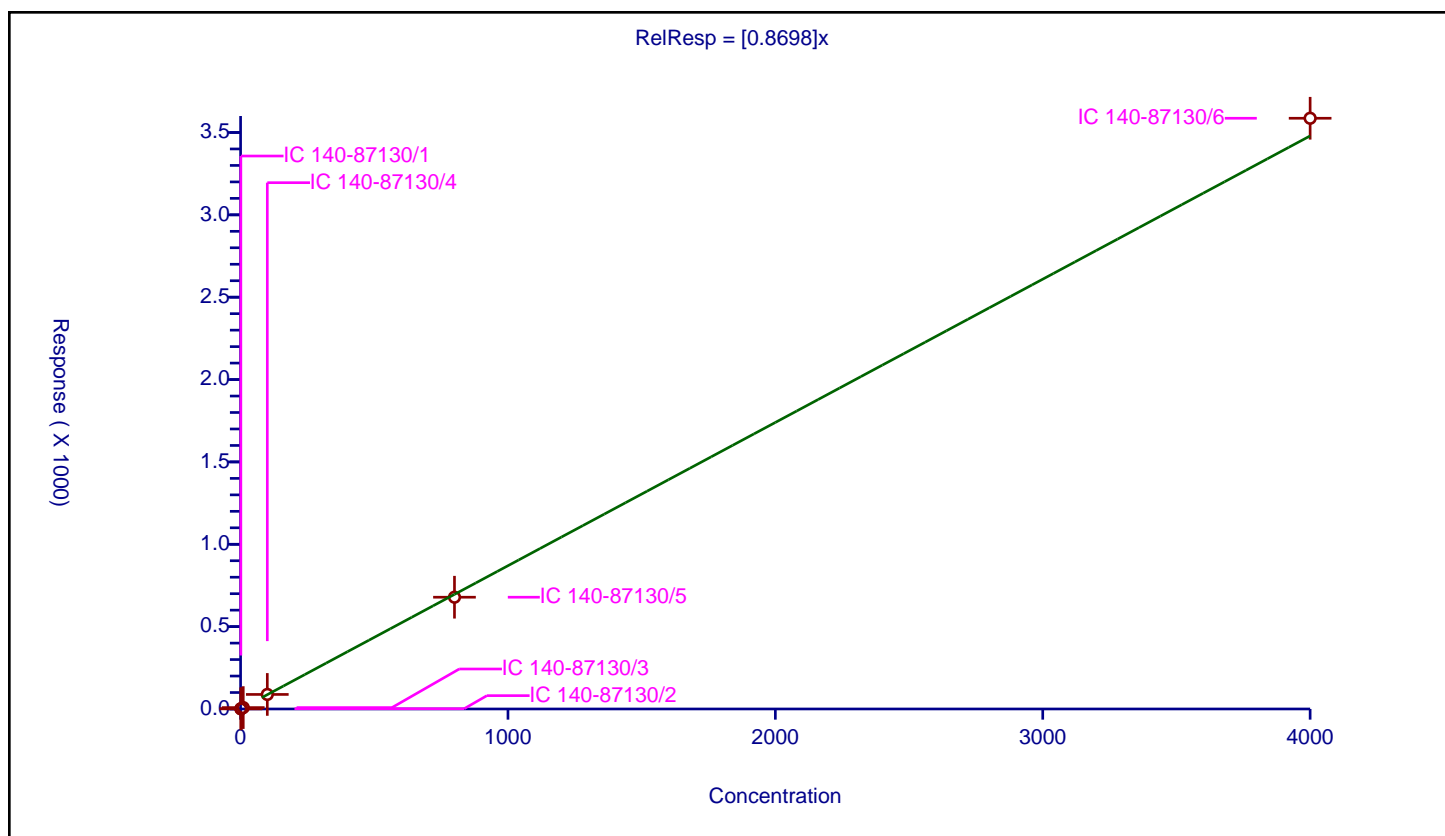
## Curve Coefficients

Intercept: 0  
 Slope: 0.8698

## Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.881894	100.0	5622444.0	0.881894	Y
2	IC 140-87130/2	2.0	1.72697	100.0	5103331.0	0.863485	Y
3	IC 140-87130/3	10.0	8.456361	100.0	5089577.0	0.845636	Y
4	IC 140-87130/4	100.0	88.292758	100.0	4754288.0	0.882928	Y
5	IC 140-87130/5	800.0	678.541923	100.0	5079458.0	0.848177	Y
6	IC 140-87130/6	4000.0	3586.39161	100.0	5299657.0	0.896598	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

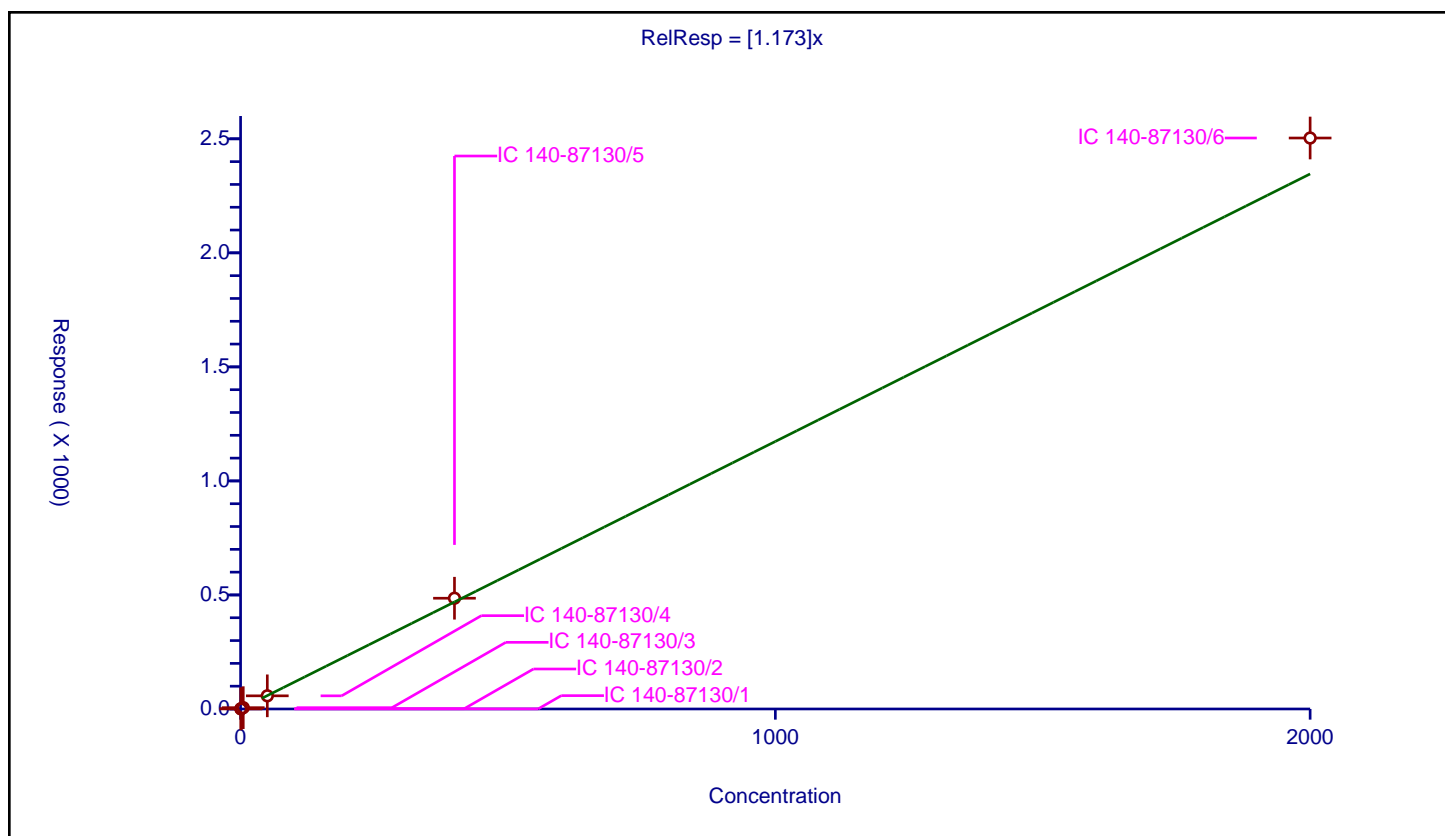
## Curve Coefficients

Intercept: 0  
Slope: 1.173

## Error Coefficients

Relative Standard Deviation: 4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.56171	100.0	14676977.0	1.123419	Y
2	IC 140-87130/2	1.0	1.134341	100.0	13411930.0	1.134341	Y
3	IC 140-87130/3	5.0	5.797565	100.0	13253788.0	1.159513	Y
4	IC 140-87130/4	50.0	57.755063	100.0	13654287.0	1.155101	Y
5	IC 140-87130/5	400.0	485.642646	100.0	13820437.0	1.214107	Y
6	IC 140-87130/6	2000.0	2503.512907	100.0	14103562.0	1.251756	Y



# Calibration

/ PCB-20

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

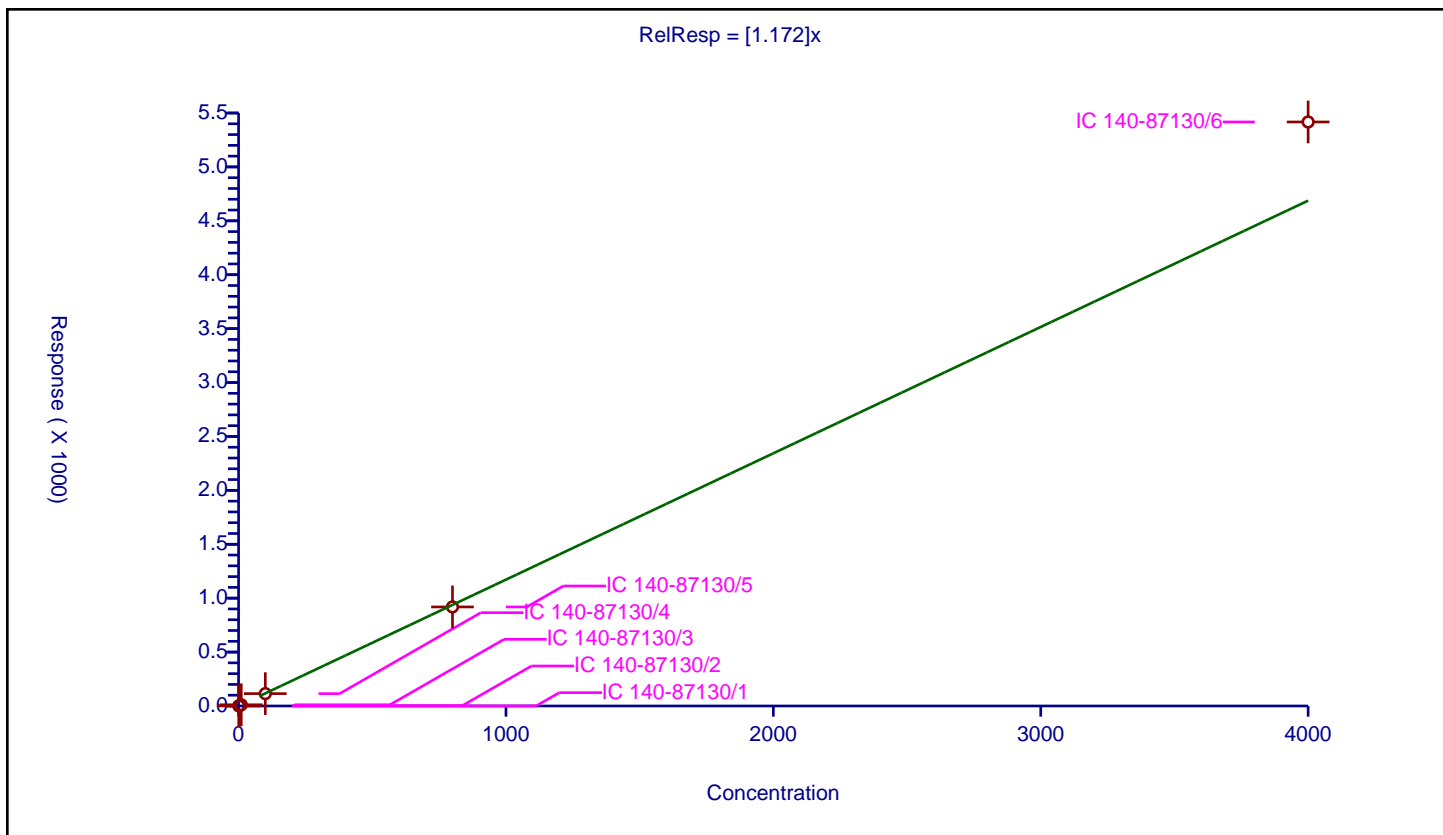
## Curve Coefficients

Intercept: 0  
 Slope: 1.172

## Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.125553	100.0	14507892.0	1.125553	Y
2	IC 140-87130/2	2.0	2.250698	100.0	13255798.0	1.125349	Y
3	IC 140-87130/3	10.0	11.314001	100.0	13114910.0	1.1314	Y
4	IC 140-87130/4	100.0	114.571284	100.0	13535671.0	1.145713	Y
5	IC 140-87130/5	800.0	918.868256	100.0	14730805.0	1.148585	Y
6	IC 140-87130/6	4000.0	5416.90331	100.0	15552321.0	1.354226	Y



# Calibration

/ PCB-20/28

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

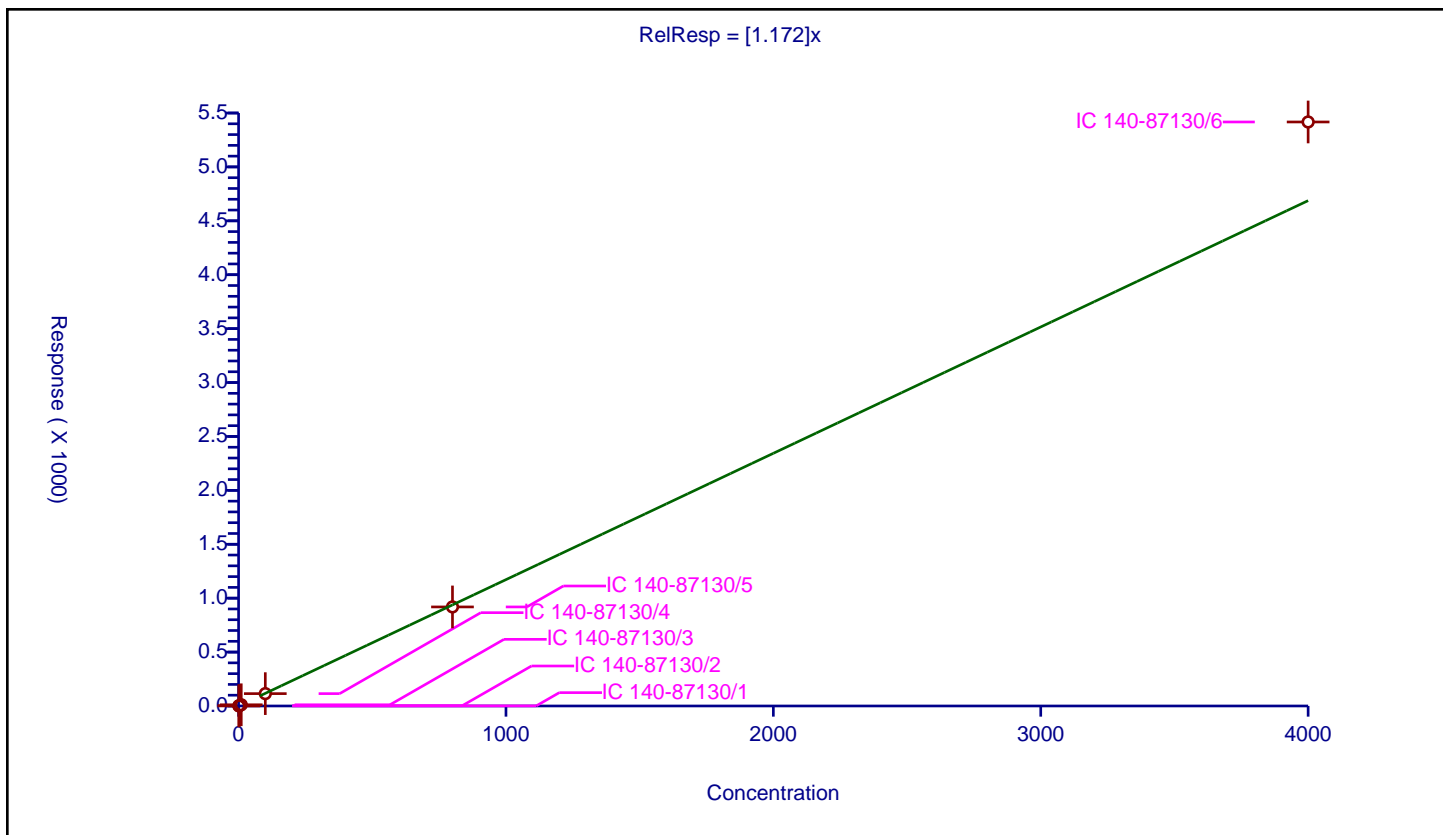
## Curve Coefficients

Intercept: 0  
 Slope: 1.172

## Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.125553	100.0	14507892.0	1.125553	Y
2	IC 140-87130/2	2.0	2.250698	100.0	13255798.0	1.125349	Y
3	IC 140-87130/3	10.0	11.314001	100.0	13114910.0	1.1314	Y
4	IC 140-87130/4	100.0	114.571284	100.0	13535671.0	1.145713	Y
5	IC 140-87130/5	800.0	918.868256	100.0	14730805.0	1.148585	Y
6	IC 140-87130/6	4000.0	5416.90331	100.0	15552321.0	1.354226	Y



# Calibration

/ PCB-200

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

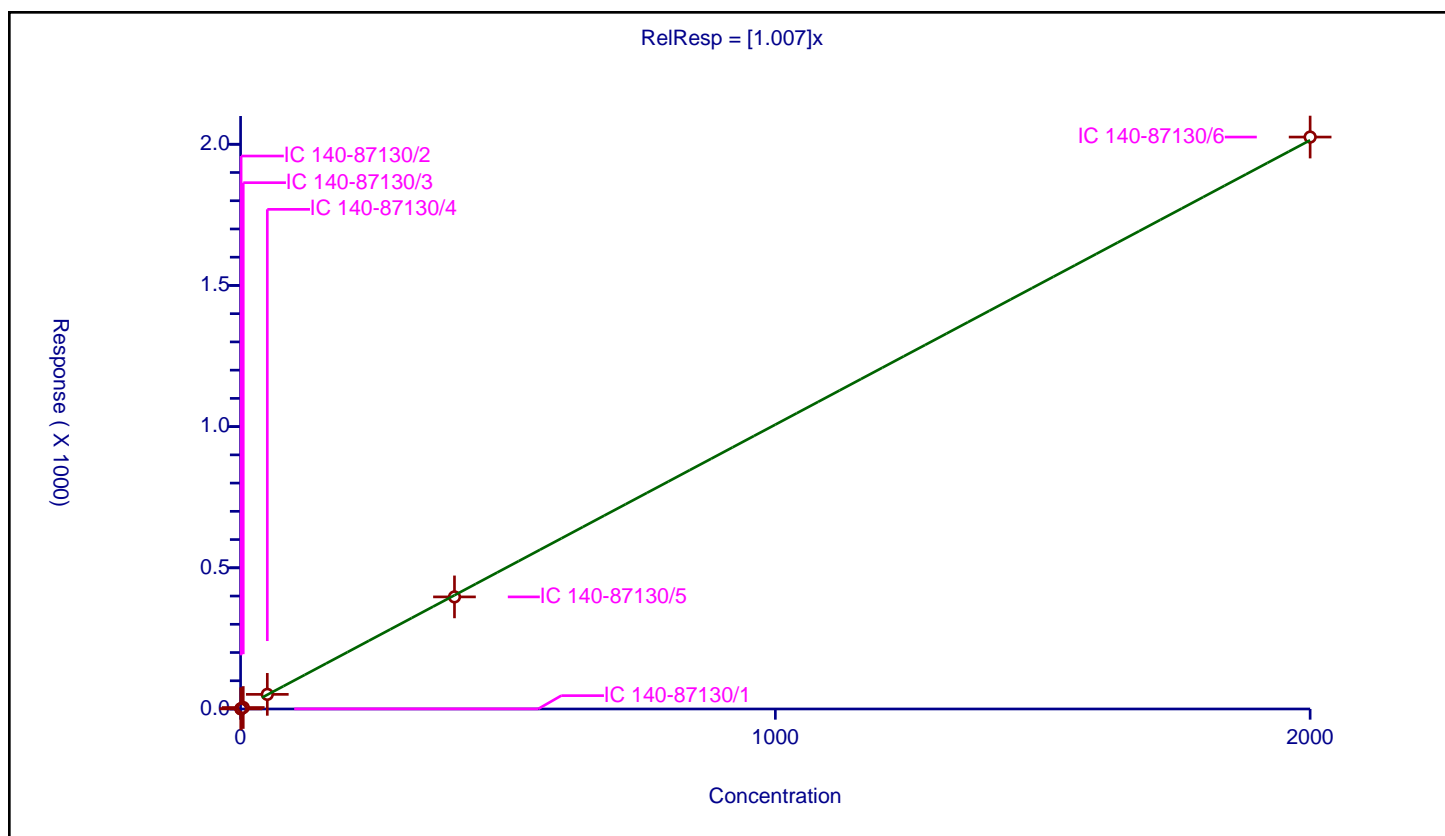
## Curve Coefficients

Intercept: 0  
Slope: 1.007

## Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.461383	100.0	5622444.0	0.922766	Y
2	IC 140-87130/2	1.0	1.039615	100.0	5103331.0	1.039615	Y
3	IC 140-87130/3	5.0	5.200629	100.0	5089577.0	1.040126	Y
4	IC 140-87130/4	50.0	51.768362	100.0	4754288.0	1.035367	Y
5	IC 140-87130/5	400.0	396.964026	100.0	5079458.0	0.99241	Y
6	IC 140-87130/6	2000.0	2025.474158	100.0	5299657.0	1.012737	Y



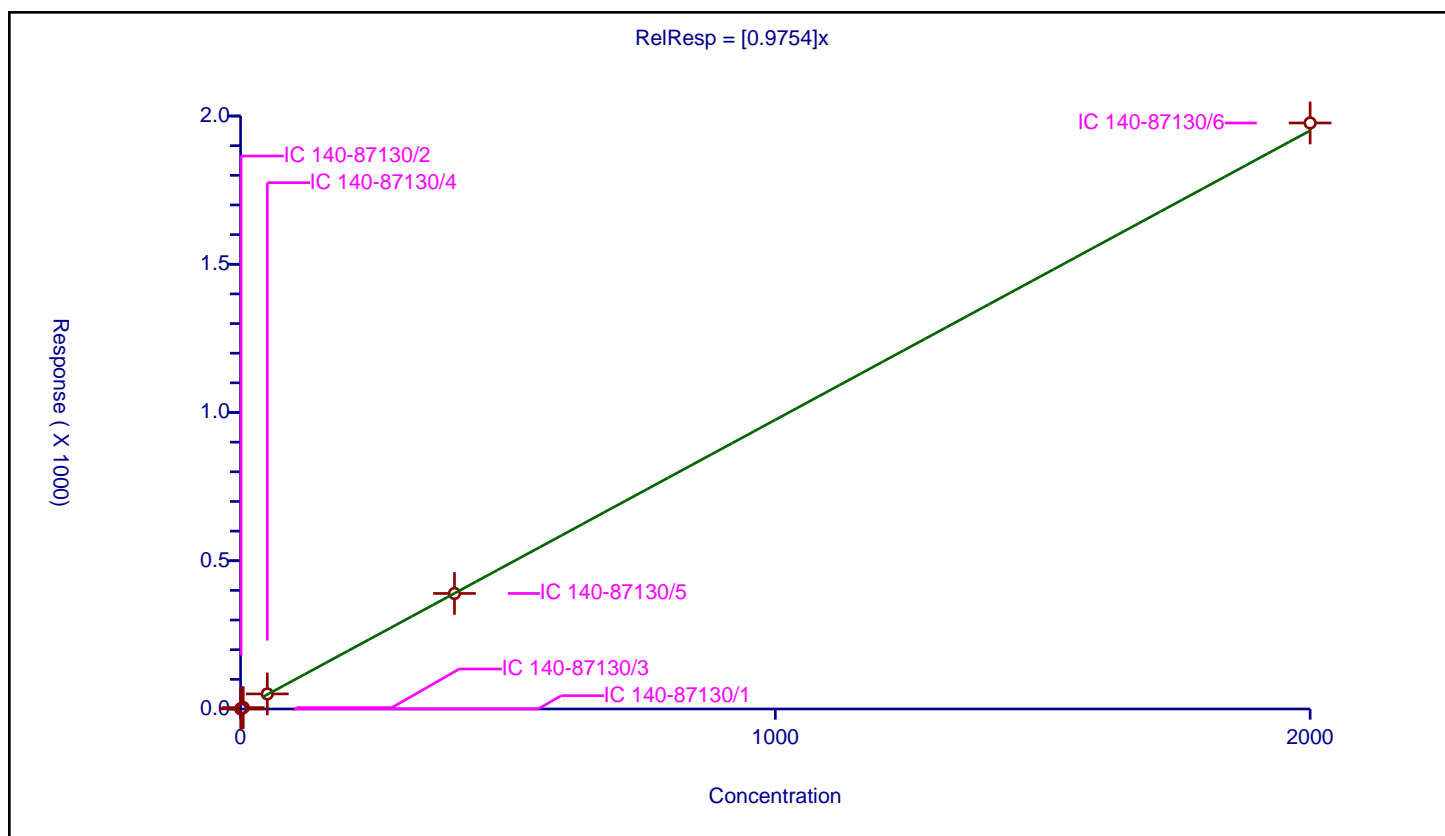
## / PCB-201

### Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.463571	100.0	5622444.0	0.927141	Y
2	IC 140-87130/2	1.0	0.993312	100.0	5103331.0	0.993312	Y
3	IC 140-87130/3	5.0	4.758627	100.0	5089577.0	0.951725	Y
4	IC 140-87130/4	50.0	50.882782	100.0	4754288.0	1.017656	Y
5	IC 140-87130/5	400.0	389.640312	100.0	5079458.0	0.974101	Y
6	IC 140-87130/6	2000.0	1976.55837	100.0	5299657.0	0.988279	Y



# Calibration

/ PCB-202

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

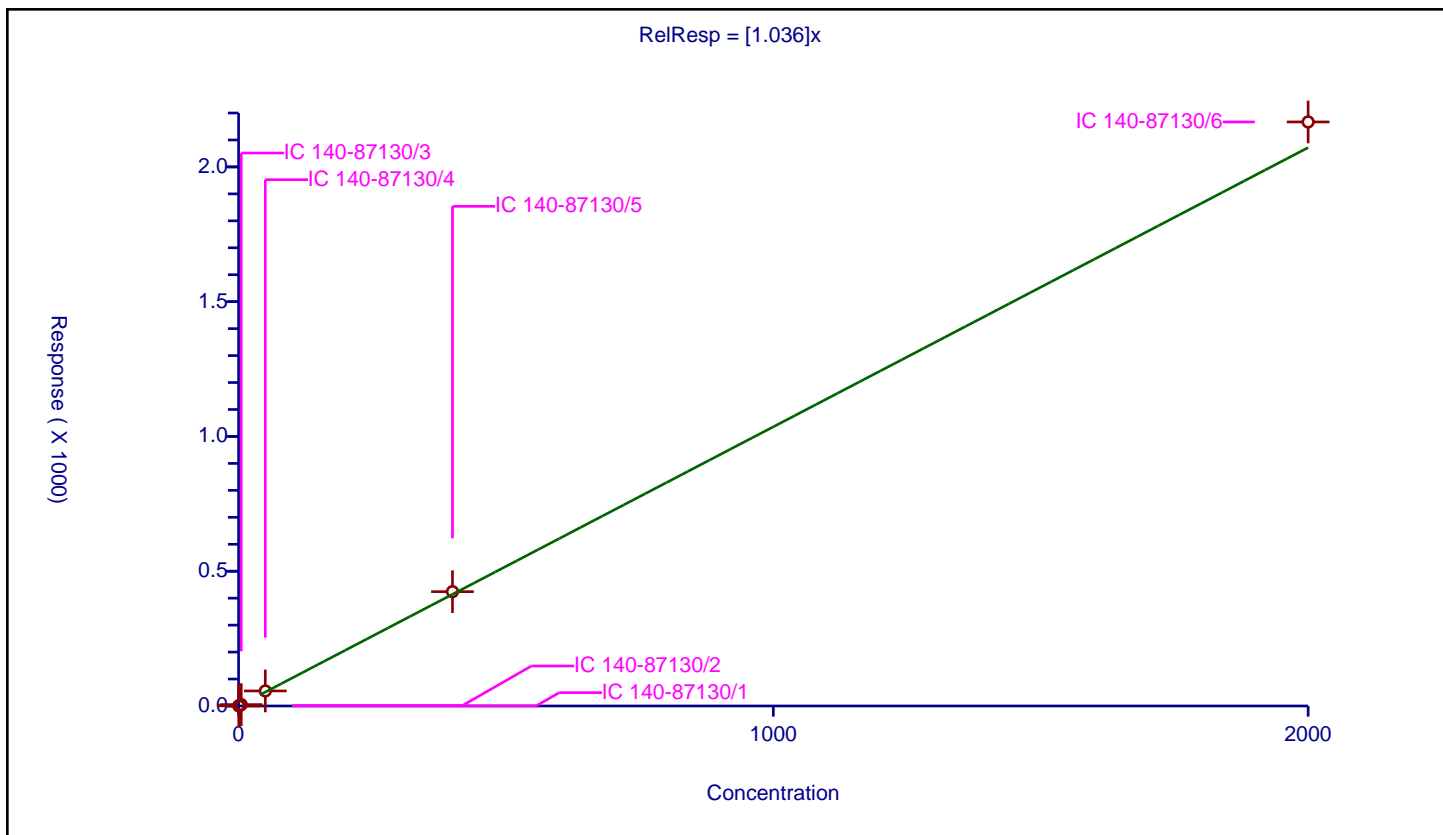
## Curve Coefficients

Intercept: 0  
 Slope: 1.036

## Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.457346	100.0	5622444.0	0.914691	Y
2	IC 140-87130/2	1.0	1.000699	100.0	5103331.0	1.000699	Y
3	IC 140-87130/3	5.0	5.196267	100.0	5089577.0	1.039253	Y
4	IC 140-87130/4	50.0	55.82857	100.0	4754288.0	1.116571	Y
5	IC 140-87130/5	400.0	424.203114	100.0	5079458.0	1.060508	Y
6	IC 140-87130/6	2000.0	2166.861082	100.0	5299657.0	1.083431	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

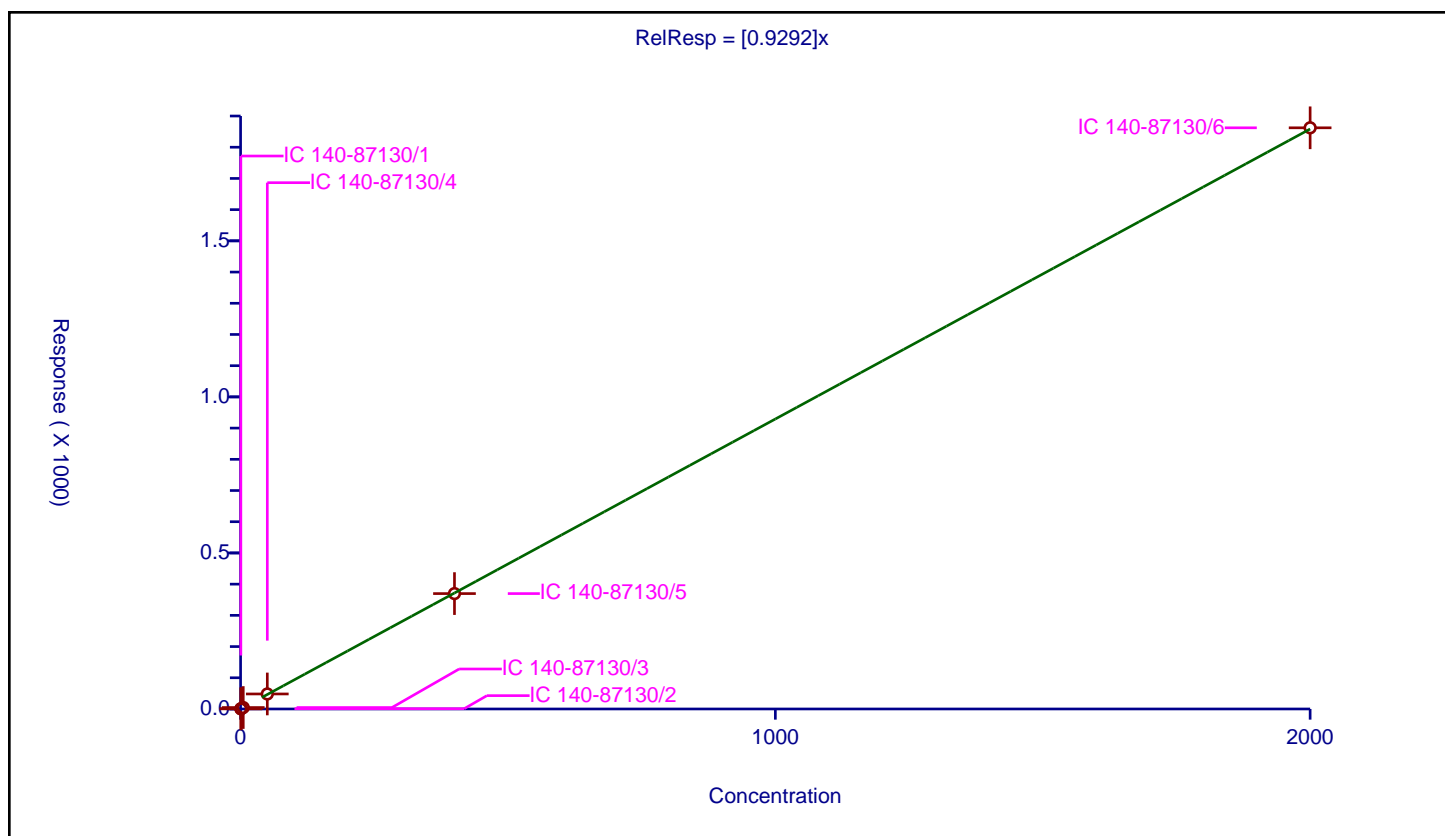
## Curve Coefficients

Intercept: 0  
Slope: 0.9292

## Error Coefficients

Relative Standard Deviation: 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.472855	100.0	5622444.0	0.94571	Y
2	IC 140-87130/2	1.0	0.884246	100.0	5103331.0	0.884246	Y
3	IC 140-87130/3	5.0	4.633136	100.0	5089577.0	0.926627	Y
4	IC 140-87130/4	50.0	48.15821	100.0	4754288.0	0.963164	Y
5	IC 140-87130/5	400.0	369.761282	100.0	5079458.0	0.924403	Y
6	IC 140-87130/6	2000.0	1862.268577	100.0	5299657.0	0.931134	Y





# Calibration

/ PCB-204

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

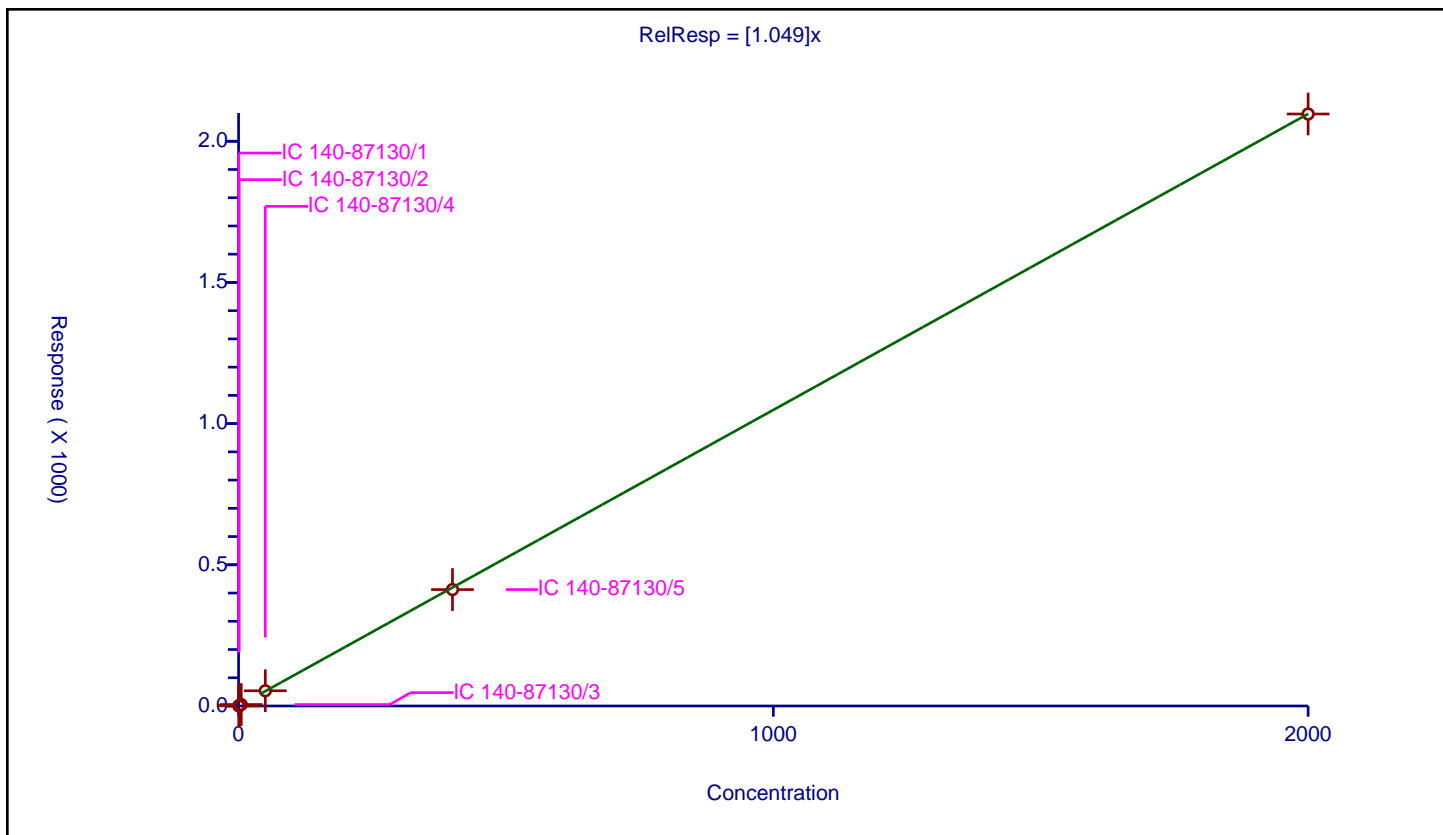
## Curve Coefficients

Intercept: 0  
 Slope: 1.049

## Error Coefficients

Relative Standard Deviation: 2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.532491	100.0	5622444.0	1.064982	Y
2	IC 140-87130/2	1.0	1.048786	100.0	5103331.0	1.048786	Y
3	IC 140-87130/3	5.0	5.102251	100.0	5089577.0	1.02045	Y
4	IC 140-87130/4	50.0	53.899553	100.0	4754288.0	1.077991	Y
5	IC 140-87130/5	400.0	412.258414	100.0	5079458.0	1.030646	Y
6	IC 140-87130/6	2000.0	2096.551437	100.0	5299657.0	1.048276	Y



# Calibration

/ PCB-205

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

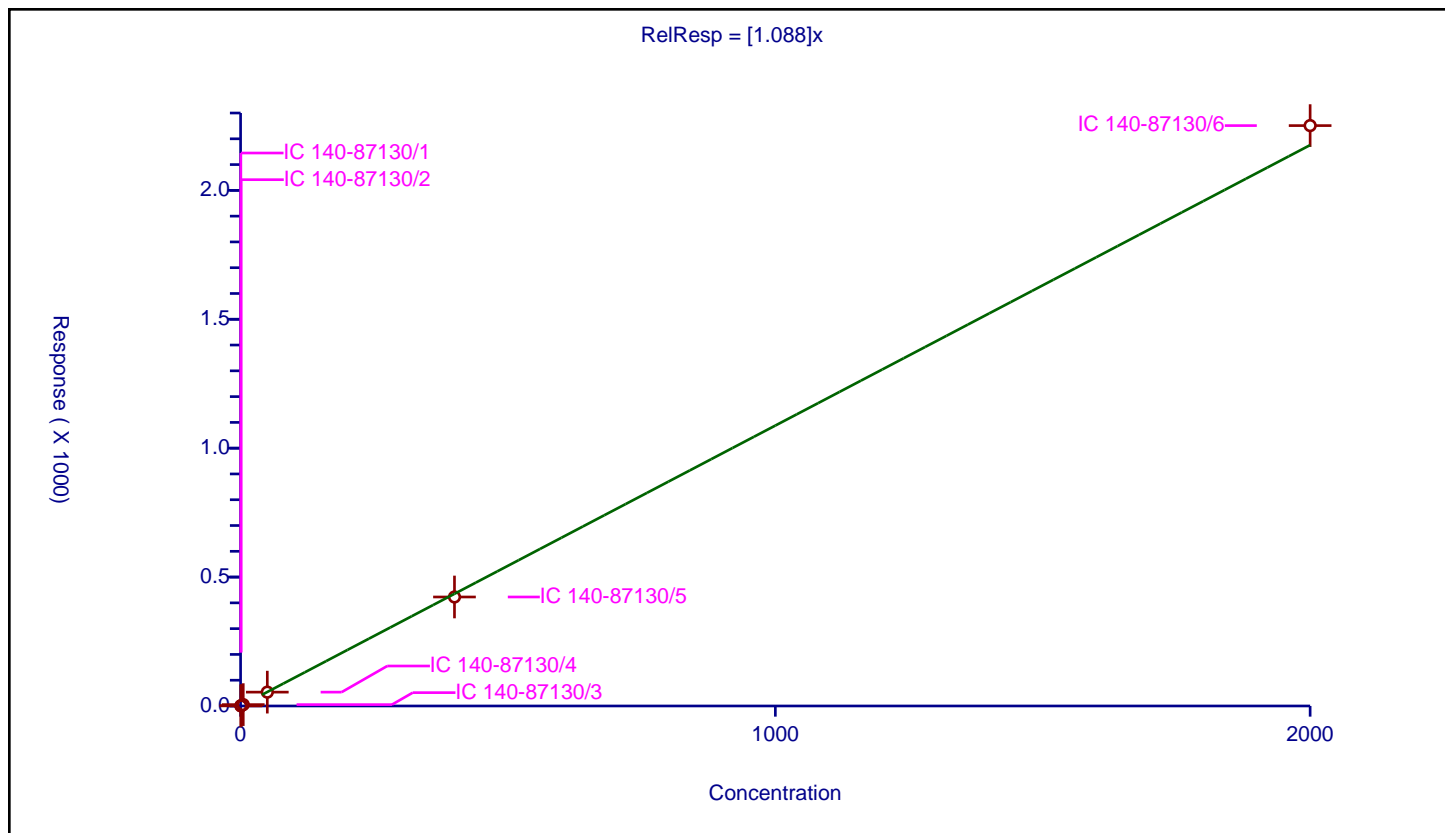
## Curve Coefficients

Intercept: 0  
Slope: 1.088

## Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.546091	100.0	9259085.0	1.092181	Y
2	IC 140-87130/2	1.0	1.112361	100.0	8466946.0	1.112361	Y
3	IC 140-87130/3	5.0	5.325952	100.0	8416261.0	1.06519	Y
4	IC 140-87130/4	50.0	53.71027	100.0	8337493.0	1.074205	Y
5	IC 140-87130/5	400.0	422.802224	100.0	8638618.0	1.057006	Y
6	IC 140-87130/6	2000.0	2251.219562	100.0	8823289.0	1.12561	Y



# Calibration

/ PCB-206

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

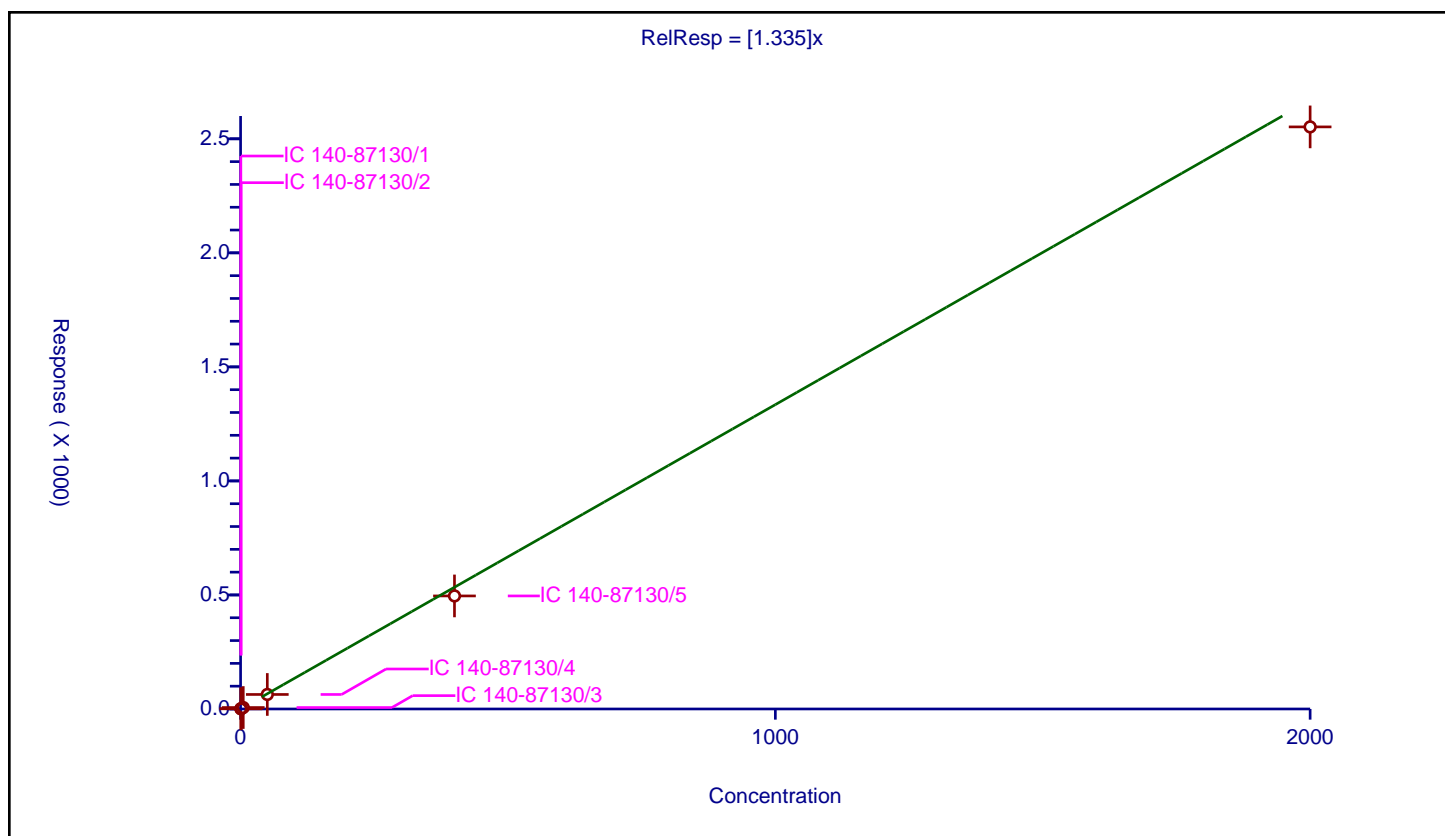
## Curve Coefficients

Intercept: 0  
 Slope: 1.335

## Error Coefficients

Relative Standard Deviation: 9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.790021	100.0	5499727.0	1.580042	Y
2	IC 140-87130/2	1.0	1.374218	100.0	4908757.0	1.374218	Y
3	IC 140-87130/3	5.0	6.317299	100.0	5024711.0	1.26346	Y
4	IC 140-87130/4	50.0	63.715313	100.0	4903942.0	1.274306	Y
5	IC 140-87130/5	400.0	495.726085	100.0	5087280.0	1.239315	Y
6	IC 140-87130/6	2000.0	2552.25413	100.0	5196483.0	1.276127	Y



# Calibration

/ PCB-207

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

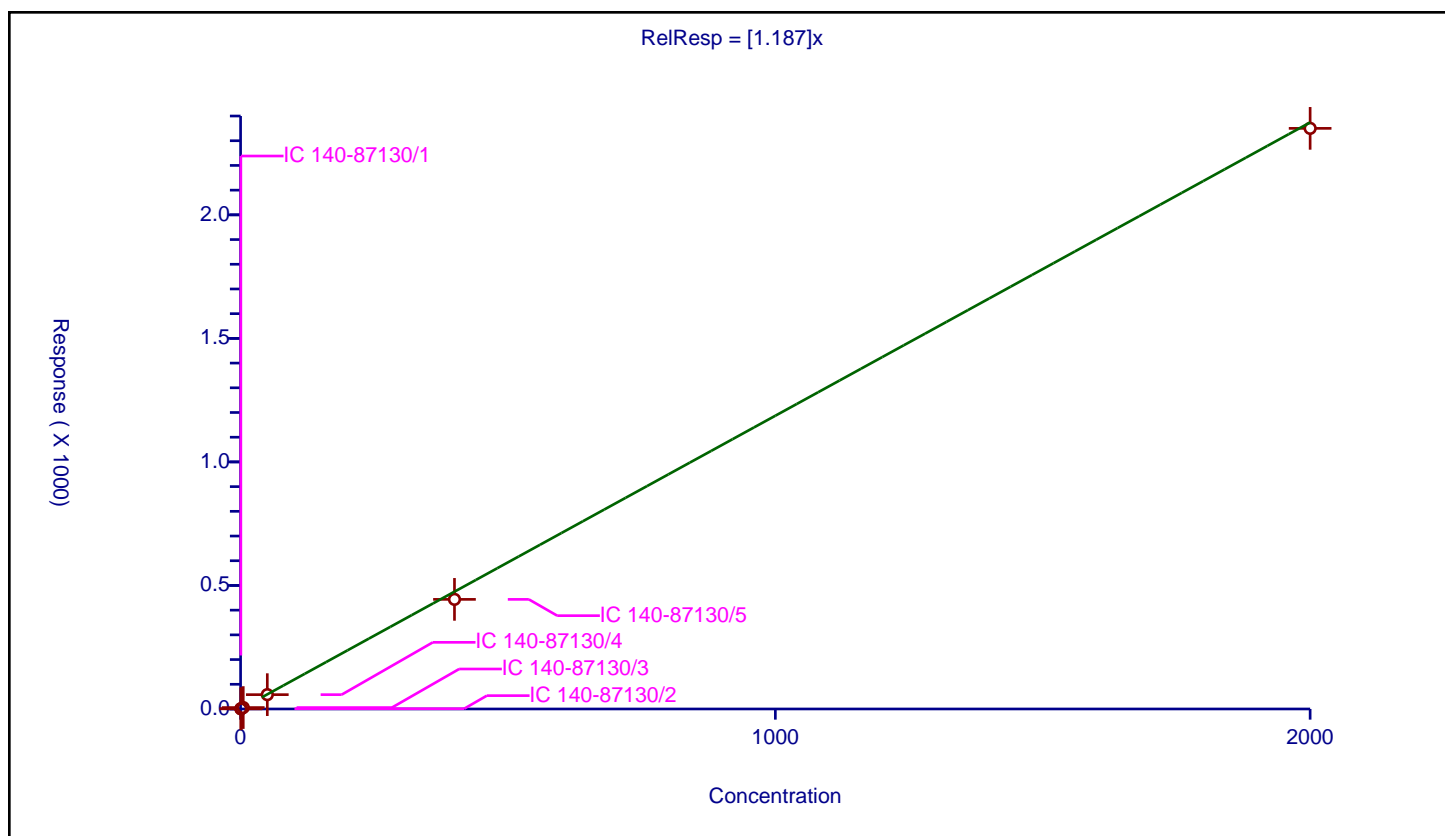
## Curve Coefficients

Intercept: 0  
Slope: 1.187

## Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.665599	100.0	7500908.0	1.331199	Y
2	IC 140-87130/2	1.0	1.181299	100.0	6757986.0	1.181299	Y
3	IC 140-87130/3	5.0	5.820938	100.0	6859651.0	1.164188	Y
4	IC 140-87130/4	50.0	58.054956	100.0	6680775.0	1.161099	Y
5	IC 140-87130/5	400.0	443.625932	100.0	7135804.0	1.109065	Y
6	IC 140-87130/6	2000.0	2350.061025	100.0	7275684.0	1.175031	Y



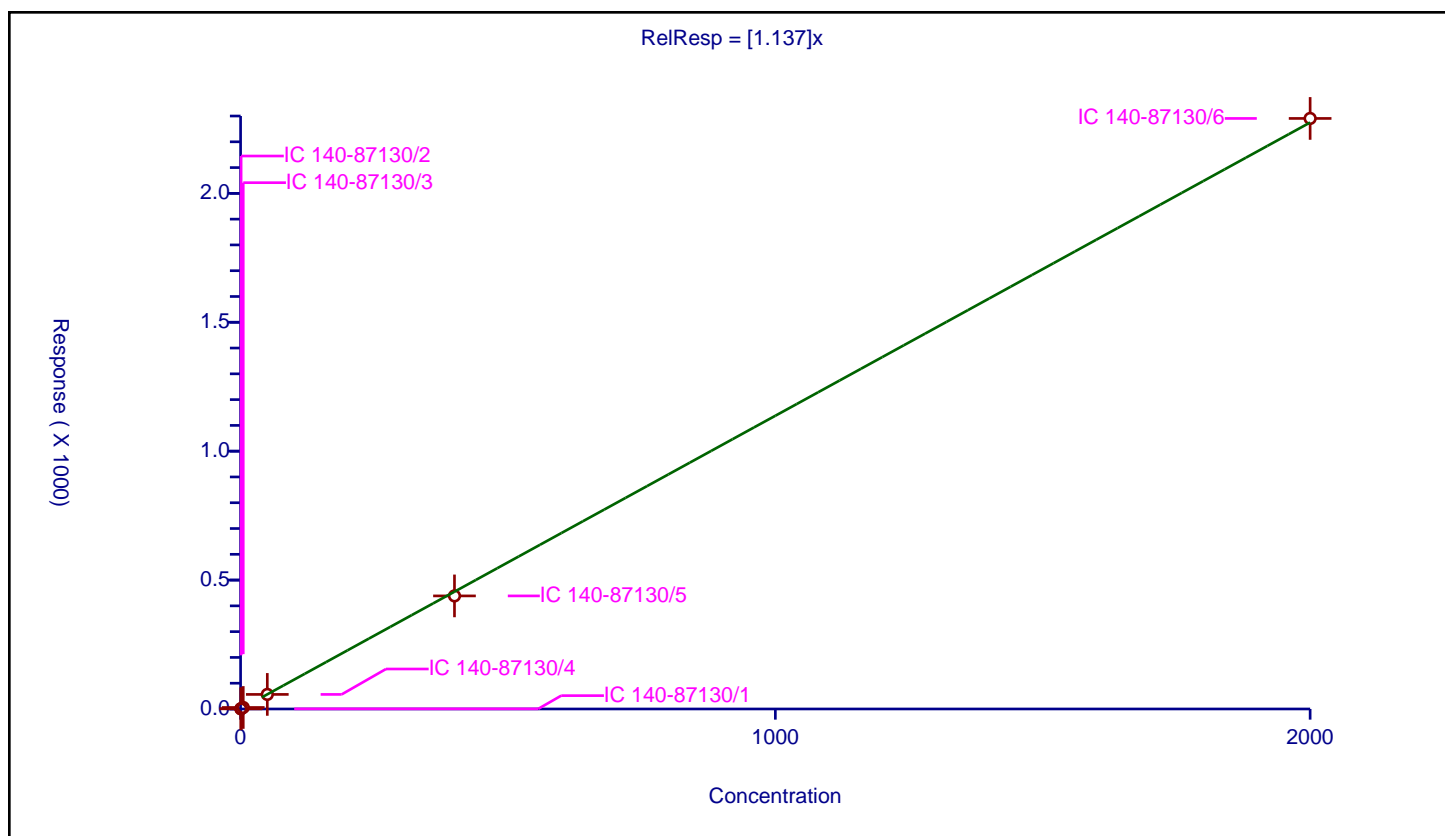
**/ PCB-208**

### Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.554533	100.0	7500908.0	1.109066	Y
2	IC 140-87130/2	1.0	1.178739	100.0	6757986.0	1.178739	Y
3	IC 140-87130/3	5.0	5.825005	100.0	6859651.0	1.165001	Y
4	IC 140-87130/4	50.0	56.499313	100.0	6680775.0	1.129986	Y
5	IC 140-87130/5	400.0	438.638533	100.0	7135804.0	1.096596	Y
6	IC 140-87130/6	2000.0	2290.579635	100.0	7275684.0	1.14529	Y



# Calibration

/ PCB-21

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

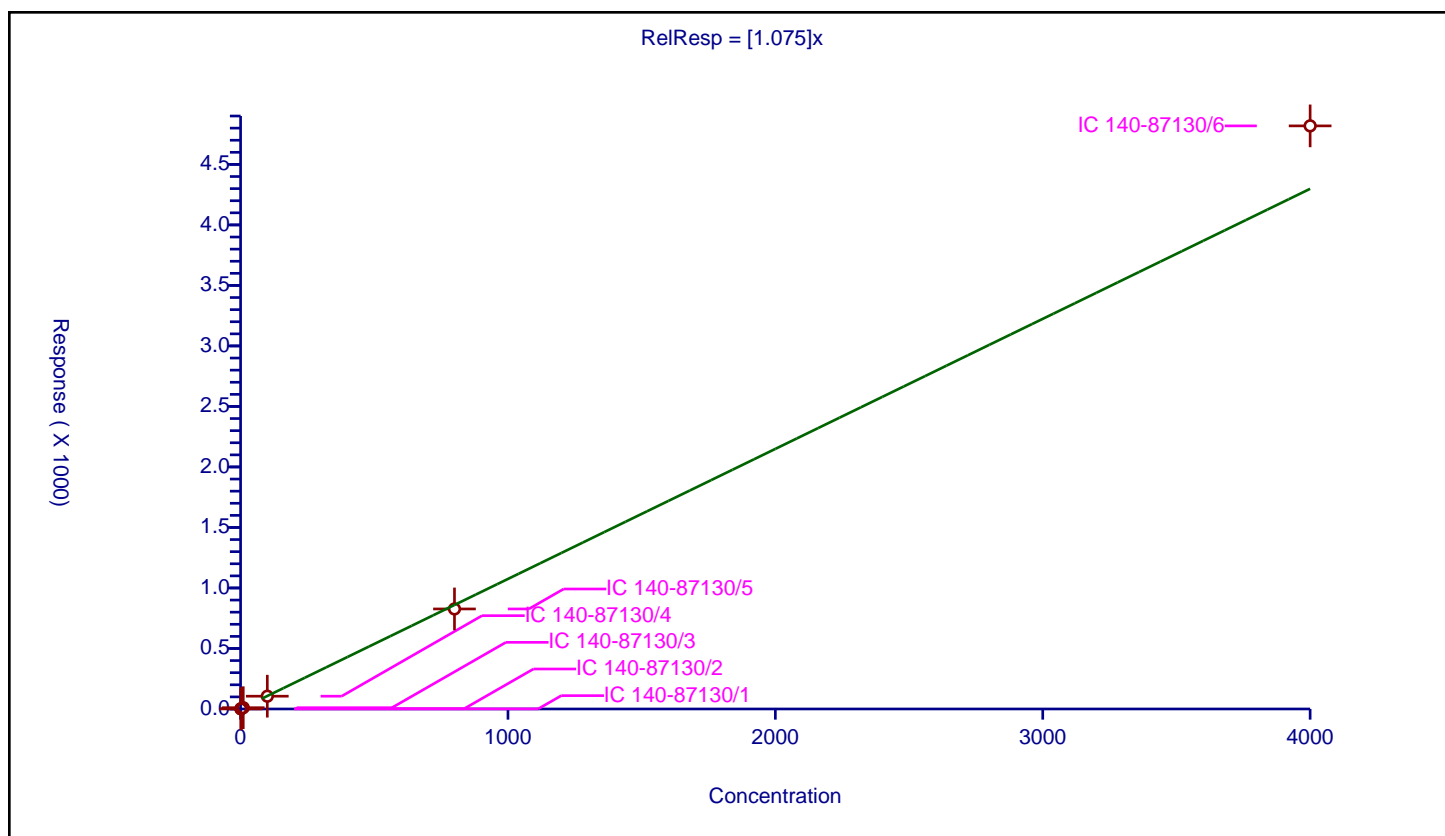
## Curve Coefficients

Intercept: 0  
Slope: 1.075

## Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.018136	100.0	14507892.0	1.018136	Y
2	IC 140-87130/2	2.0	2.127311	100.0	13255798.0	1.063655	Y
3	IC 140-87130/3	10.0	10.703085	100.0	13114910.0	1.070309	Y
4	IC 140-87130/4	100.0	105.751285	100.0	13535671.0	1.057513	Y
5	IC 140-87130/5	800.0	826.614581	100.0	14730805.0	1.033268	Y
6	IC 140-87130/6	4000.0	4818.507366	100.0	15552321.0	1.204627	Y



# Calibration

/ PCB-21/33

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

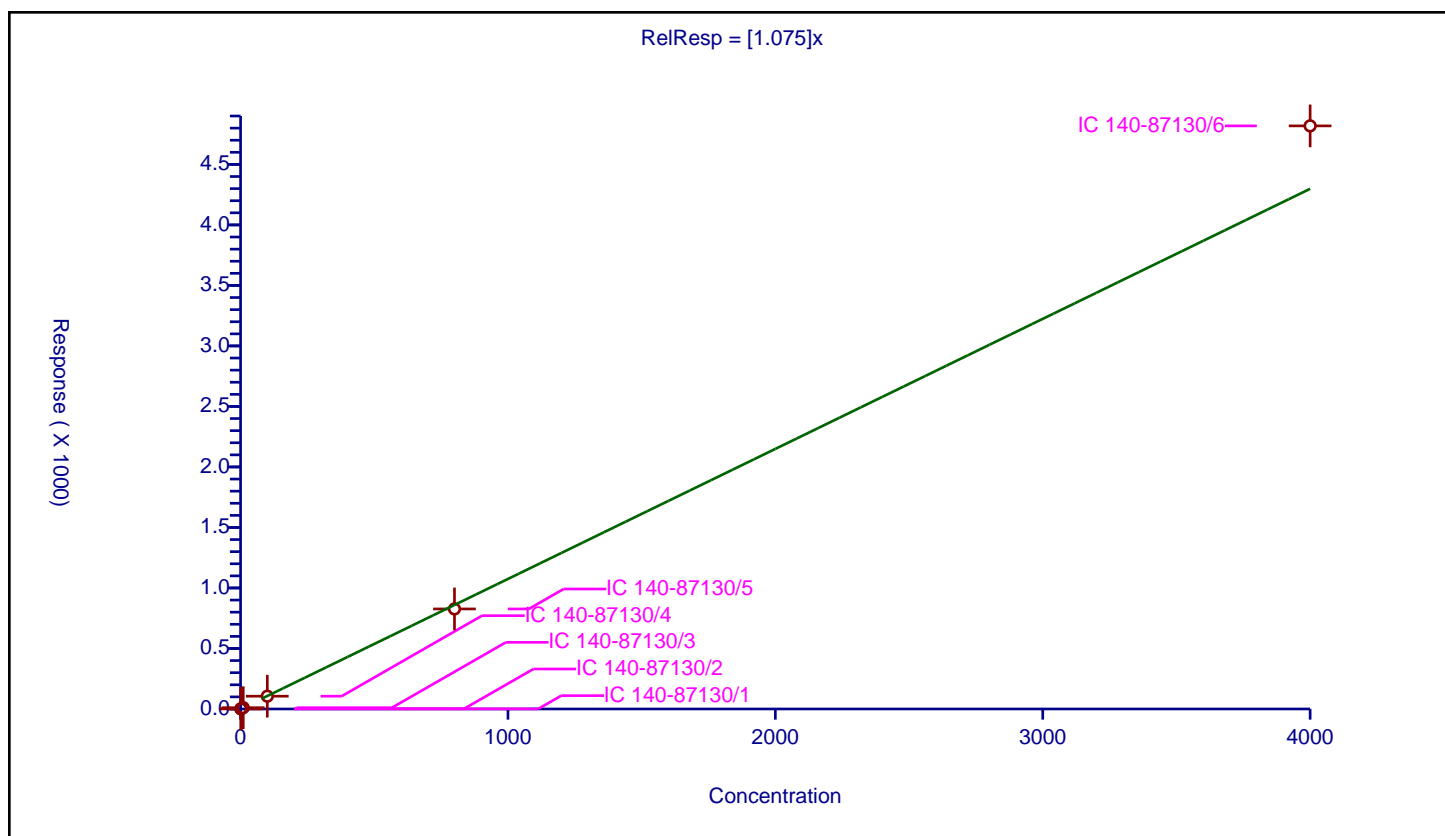
## Curve Coefficients

Intercept: 0  
 Slope: 1.075

## Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.018136	100.0	14507892.0	1.018136	Y
2	IC 140-87130/2	2.0	2.127311	100.0	13255798.0	1.063655	Y
3	IC 140-87130/3	10.0	10.703085	100.0	13114910.0	1.070309	Y
4	IC 140-87130/4	100.0	105.751285	100.0	13535671.0	1.057513	Y
5	IC 140-87130/5	800.0	826.614581	100.0	14730805.0	1.033268	Y
6	IC 140-87130/6	4000.0	4818.507366	100.0	15552321.0	1.204627	Y



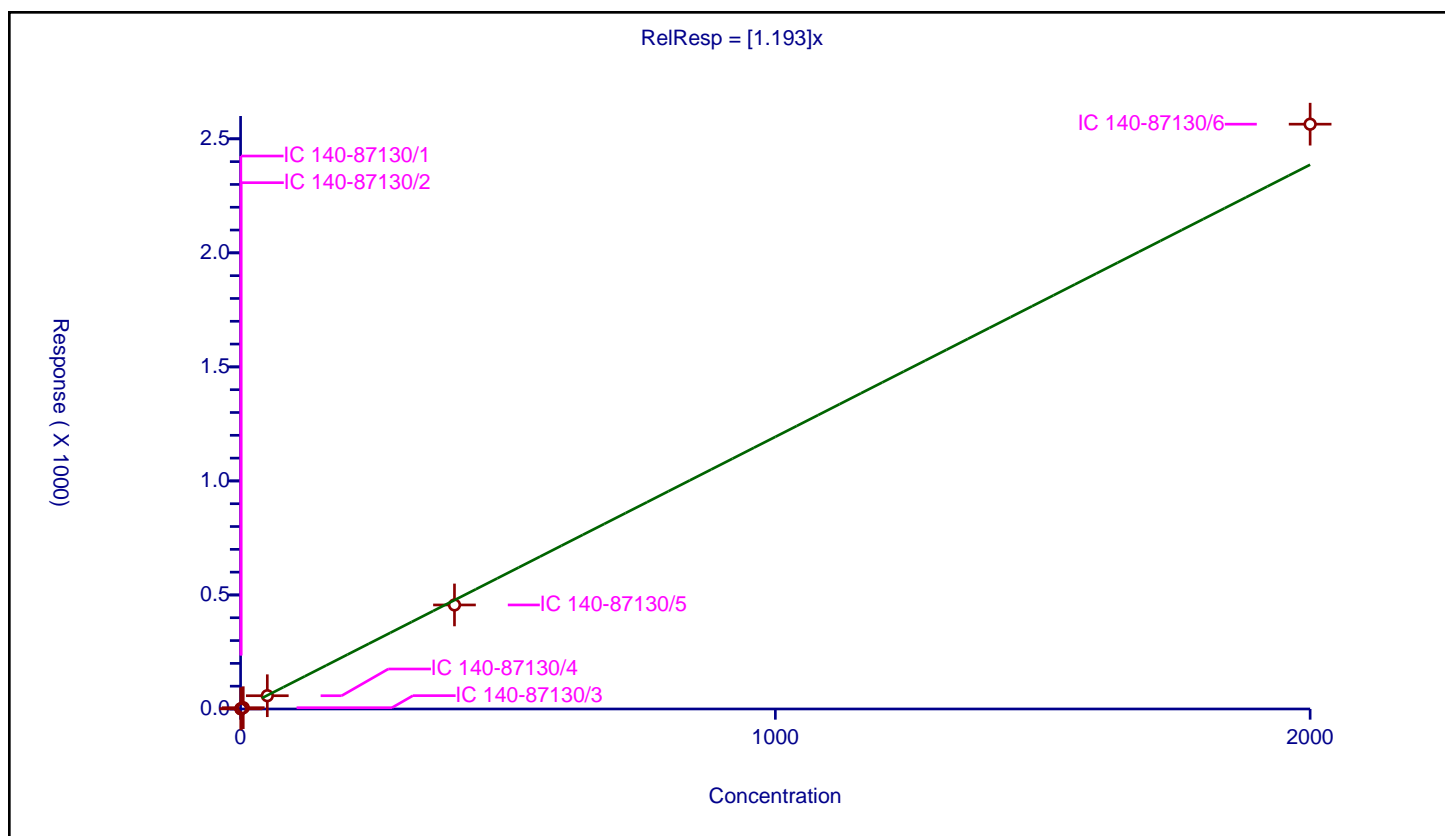
## / PCB-22

## Curve Coefficients

## Error Coefficients

**Relative Standard Deviation:** 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.60272	100.0	14507892.0	1.20544	Y
2	IC 140-87130/2	1.0	1.240031	100.0	13255798.0	1.240031	Y
3	IC 140-87130/3	5.0	5.639909	100.0	13114910.0	1.127982	Y
4	IC 140-87130/4	50.0	58.176	100.0	13535671.0	1.16352	Y
5	IC 140-87130/5	400.0	456.164439	100.0	14730805.0	1.140411	Y
6	IC 140-87130/6	2000.0	2564.170923	100.0	15552321.0	1.282085	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

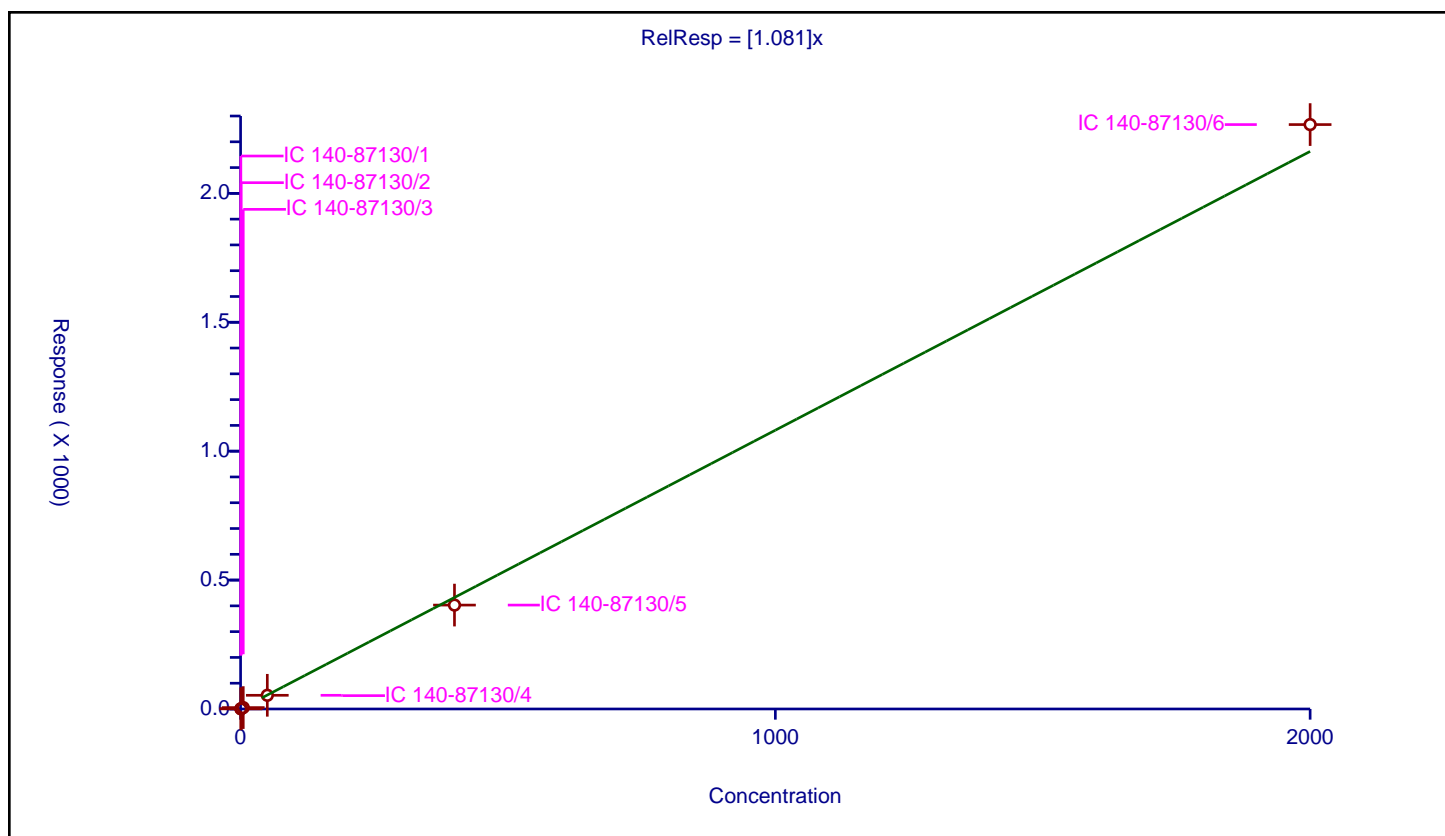
## Curve Coefficients

Intercept: 0  
Slope: 1.081

## Error Coefficients

Relative Standard Deviation: 4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.542298	100.0	14507892.0	1.084596	Y
2	IC 140-87130/2	1.0	1.117639	100.0	13255798.0	1.117639	Y
3	IC 140-87130/3	5.0	5.413869	100.0	13114910.0	1.082774	Y
4	IC 140-87130/4	50.0	53.092071	100.0	13535671.0	1.061841	Y
5	IC 140-87130/5	400.0	403.054334	100.0	14730805.0	1.007636	Y
6	IC 140-87130/6	2000.0	2266.78843	100.0	15552321.0	1.133394	Y



# Calibration

/ PCB-24

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

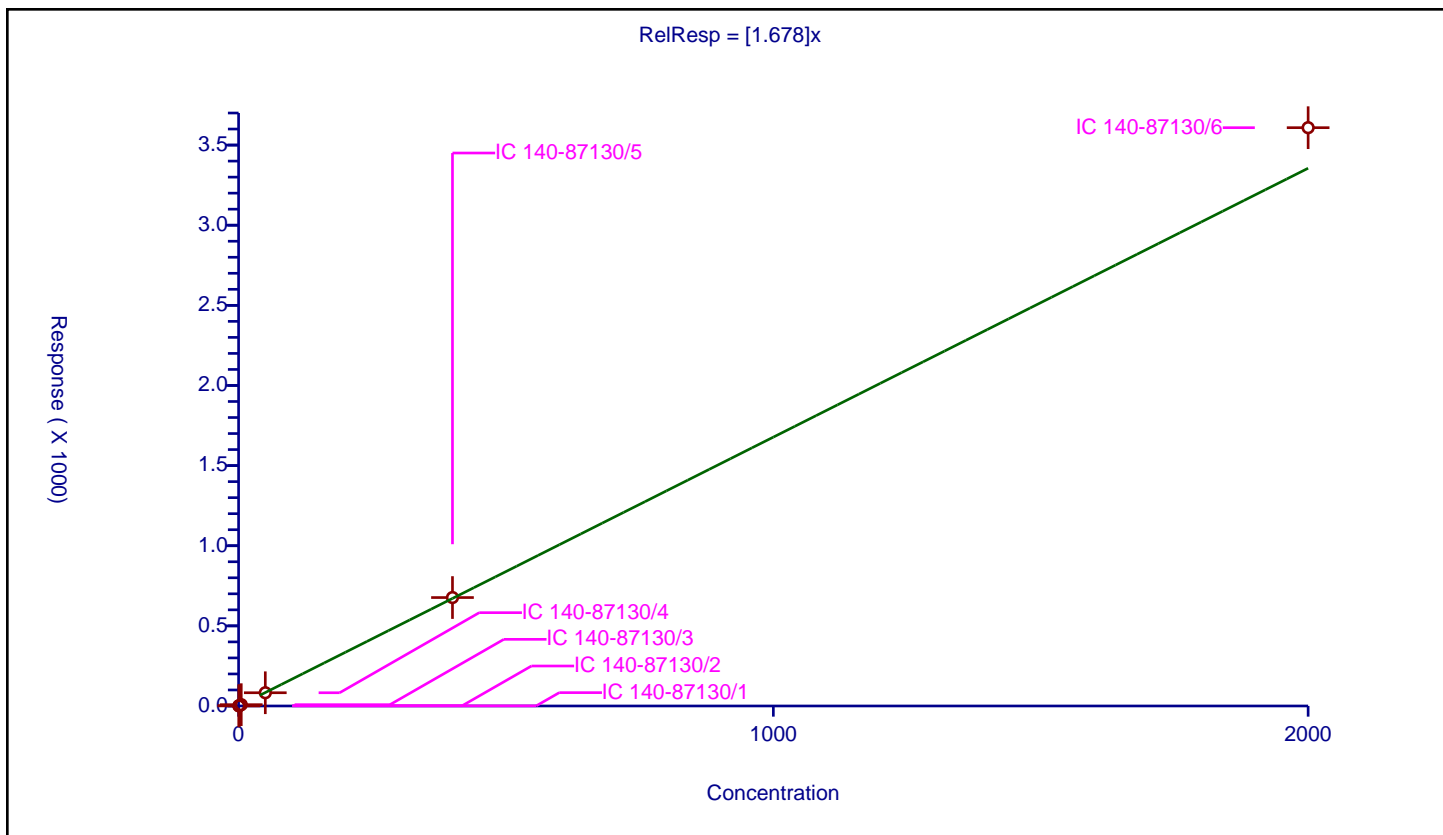
## Curve Coefficients

Intercept: 0  
Slope: 1.678

## Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.832321	100.0	3711790.0	1.664642	Y
2	IC 140-87130/2	1.0	1.622033	100.0	3424036.0	1.622033	Y
3	IC 140-87130/3	5.0	8.156379	100.0	3389482.0	1.631276	Y
4	IC 140-87130/4	50.0	82.607222	100.0	3406868.0	1.652144	Y
5	IC 140-87130/5	400.0	676.659253	100.0	3537933.0	1.691648	Y
6	IC 140-87130/6	2000.0	3608.425176	100.0	3634856.0	1.804213	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

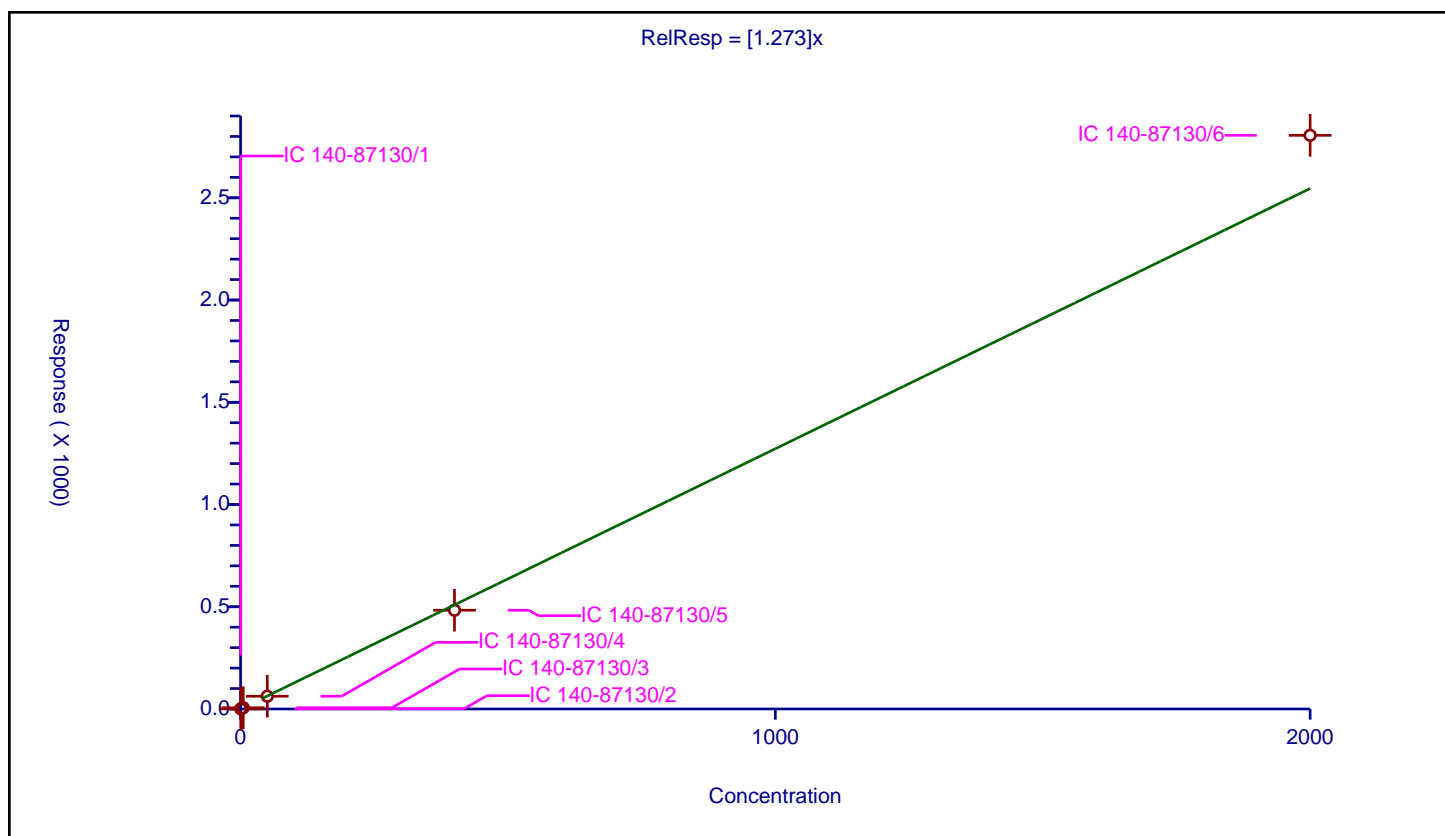
## Curve Coefficients

Intercept: 0  
Slope: 1.273

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.673964	100.0	14507892.0	1.347928	Y
2	IC 140-87130/2	1.0	1.213575	100.0	13255798.0	1.213575	Y
3	IC 140-87130/3	5.0	6.086302	100.0	13114910.0	1.21726	Y
4	IC 140-87130/4	50.0	62.388159	100.0	13535671.0	1.247763	Y
5	IC 140-87130/5	400.0	482.954306	100.0	14730805.0	1.207386	Y
6	IC 140-87130/6	2000.0	2805.539128	100.0	15552321.0	1.40277	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

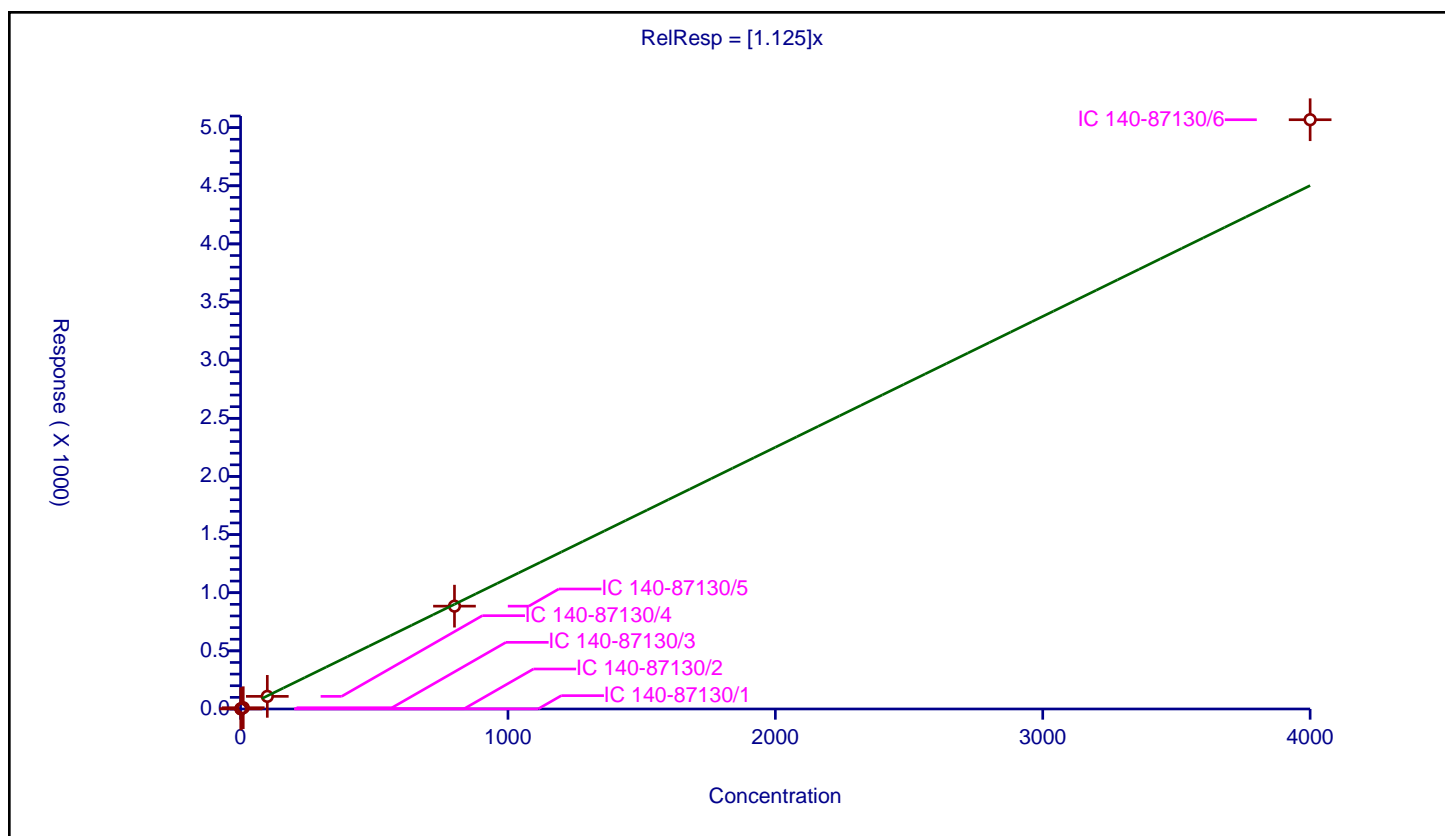
## Curve Coefficients

Intercept: 0  
Slope: 1.125

## Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.087491	100.0	14507892.0	1.087491	Y
2	IC 140-87130/2	2.0	2.23807	100.0	13255798.0	1.119035	Y
3	IC 140-87130/3	10.0	10.874516	100.0	13114910.0	1.087452	Y
4	IC 140-87130/4	100.0	108.610892	100.0	13535671.0	1.086109	Y
5	IC 140-87130/5	800.0	884.50471	100.0	14730805.0	1.105631	Y
6	IC 140-87130/6	4000.0	5068.172448	100.0	15552321.0	1.267043	Y



# Calibration

/ PCB-26/29

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

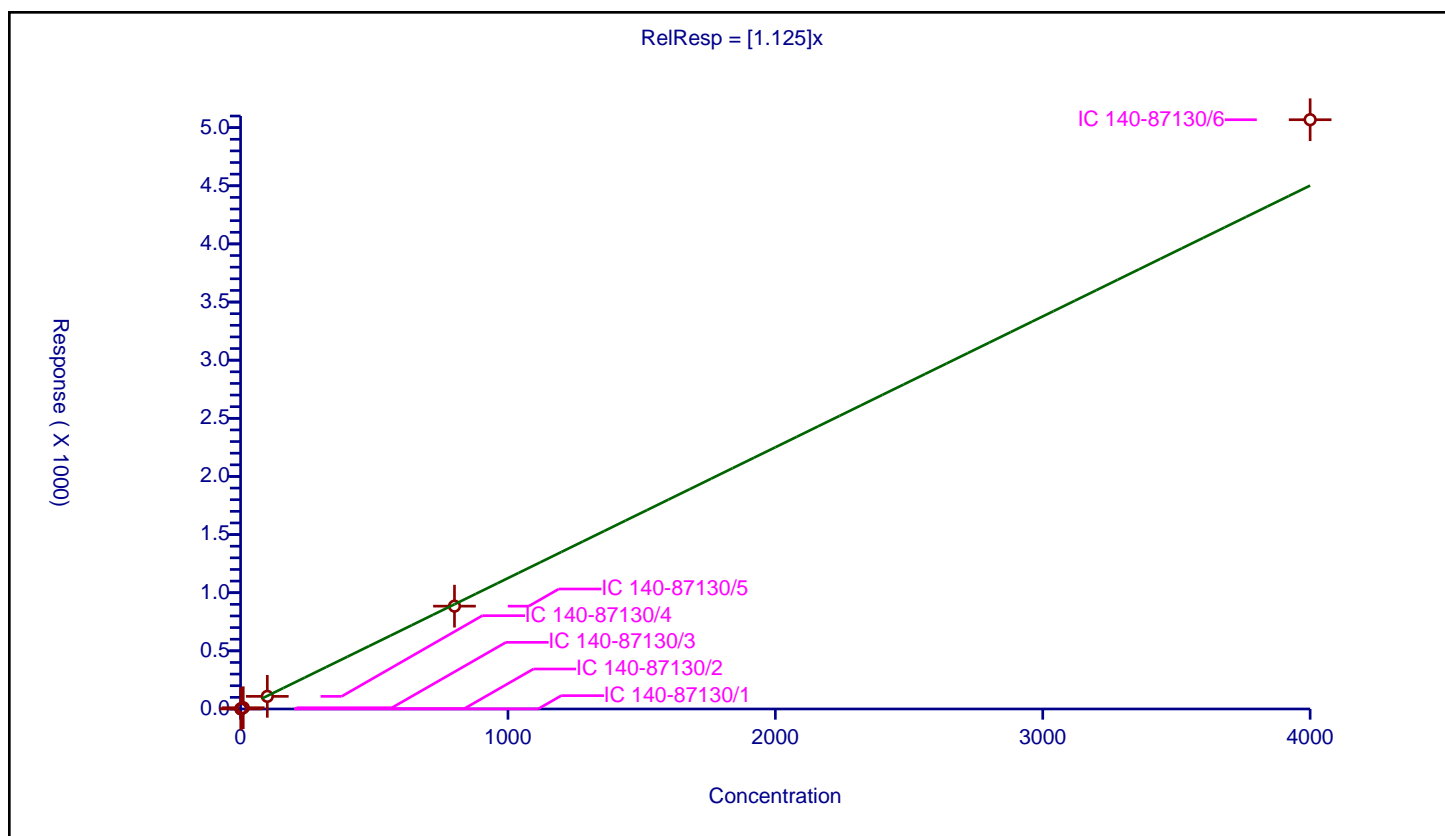
## Curve Coefficients

Intercept: 0  
 Slope: 1.125

## Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.087491	100.0	14507892.0	1.087491	Y
2	IC 140-87130/2	2.0	2.23807	100.0	13255798.0	1.119035	Y
3	IC 140-87130/3	10.0	10.874516	100.0	13114910.0	1.087452	Y
4	IC 140-87130/4	100.0	108.610892	100.0	13535671.0	1.086109	Y
5	IC 140-87130/5	800.0	884.50471	100.0	14730805.0	1.105631	Y
6	IC 140-87130/6	4000.0	5068.172448	100.0	15552321.0	1.267043	Y



**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

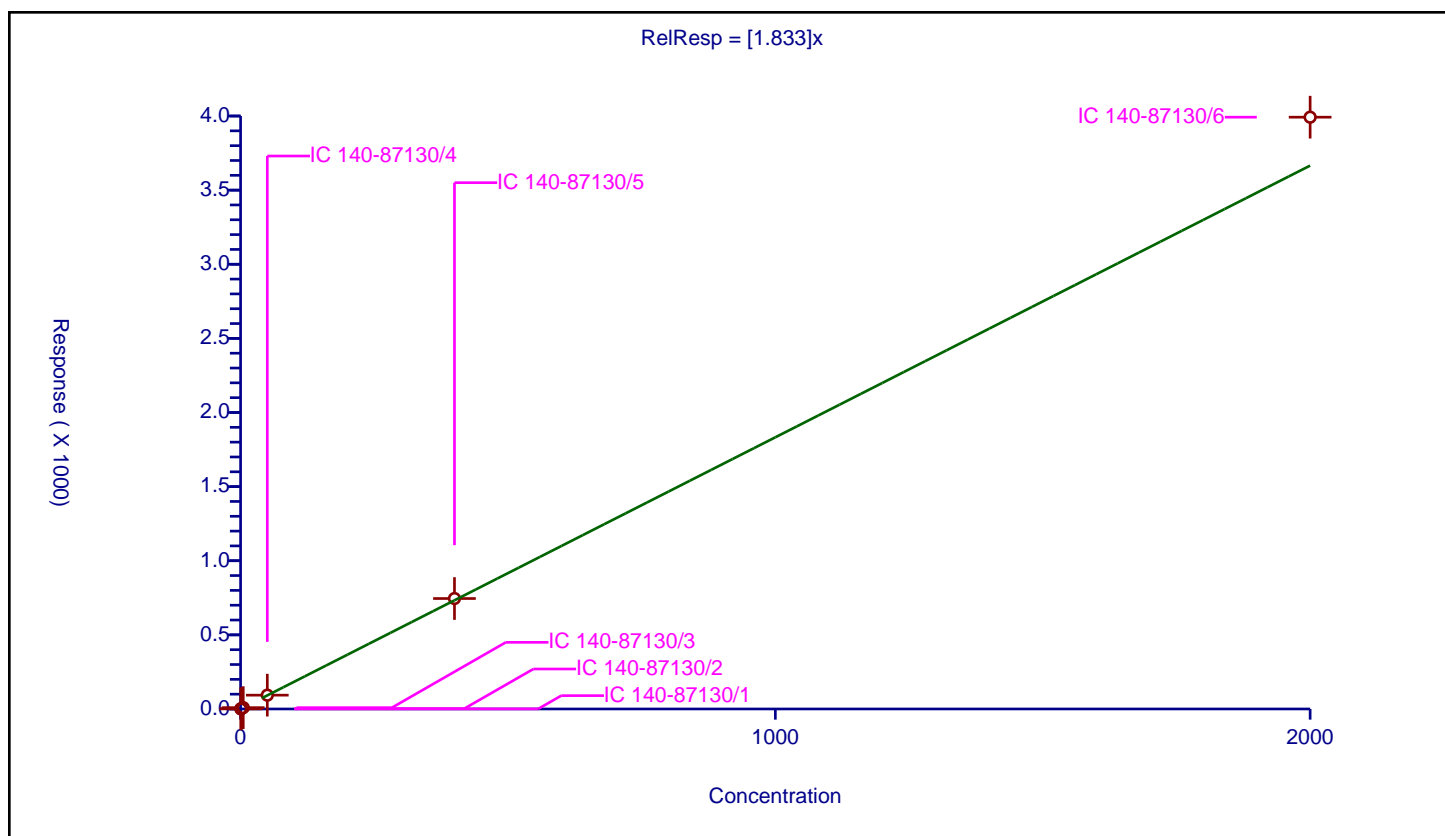
## Curve Coefficients

**Intercept:** 0  
**Slope:** 1.833

## Error Coefficients

**Relative Standard Deviation:** 6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.817234	100.0	3711790.0	1.634467	Y
2	IC 140-87130/2	1.0	1.804099	100.0	3424036.0	1.804099	Y
3	IC 140-87130/3	5.0	9.161901	100.0	3389482.0	1.83238	Y
4	IC 140-87130/4	50.0	93.3283	100.0	3406868.0	1.866566	Y
5	IC 140-87130/5	400.0	745.086524	100.0	3537933.0	1.862716	Y
6	IC 140-87130/6	2000.0	3992.112865	100.0	3634856.0	1.996056	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

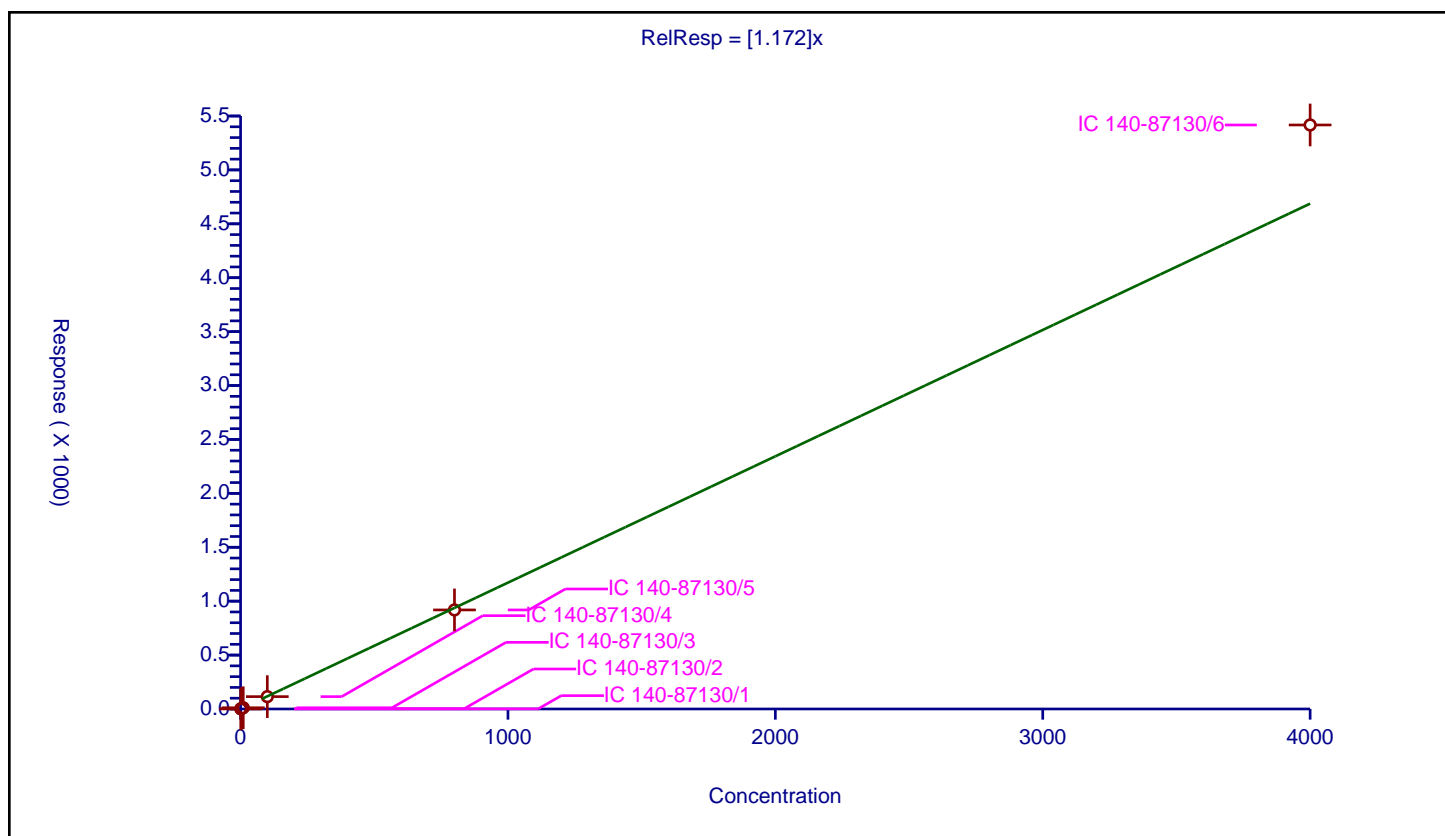
## Curve Coefficients

Intercept: 0  
Slope: 1.172

## Error Coefficients

Relative Standard Deviation: 7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.125553	100.0	14507892.0	1.125553	Y
2	IC 140-87130/2	2.0	2.250698	100.0	13255798.0	1.125349	Y
3	IC 140-87130/3	10.0	11.314001	100.0	13114910.0	1.1314	Y
4	IC 140-87130/4	100.0	114.571284	100.0	13535671.0	1.145713	Y
5	IC 140-87130/5	800.0	918.868256	100.0	14730805.0	1.148585	Y
6	IC 140-87130/6	4000.0	5416.90331	100.0	15552321.0	1.354226	Y



# Calibration

/ PCB-28L

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

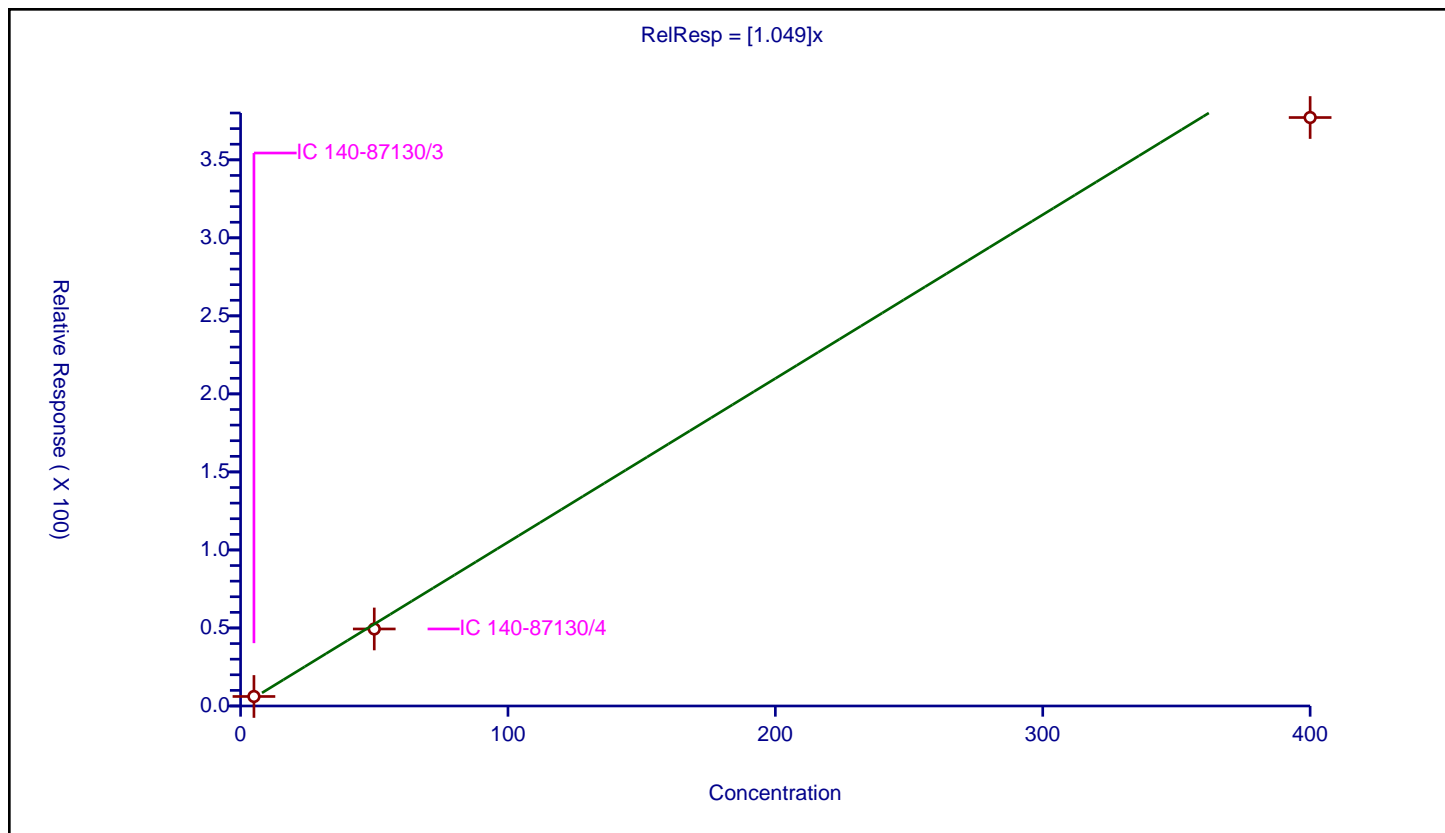
## Curve Coefficients

Intercept: 0  
 Slope: 1.049

## Error Coefficients

Relative Standard Deviation: 14.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	6.0904	100.0	15275204.0	1.21808	Y
2	IC 140-87130/4	50.0	49.365653	100.0	15561763.0	0.987313	Y
3	IC 140-87130/5	400.0	377.114819	100.0	16737748.0	0.942787	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

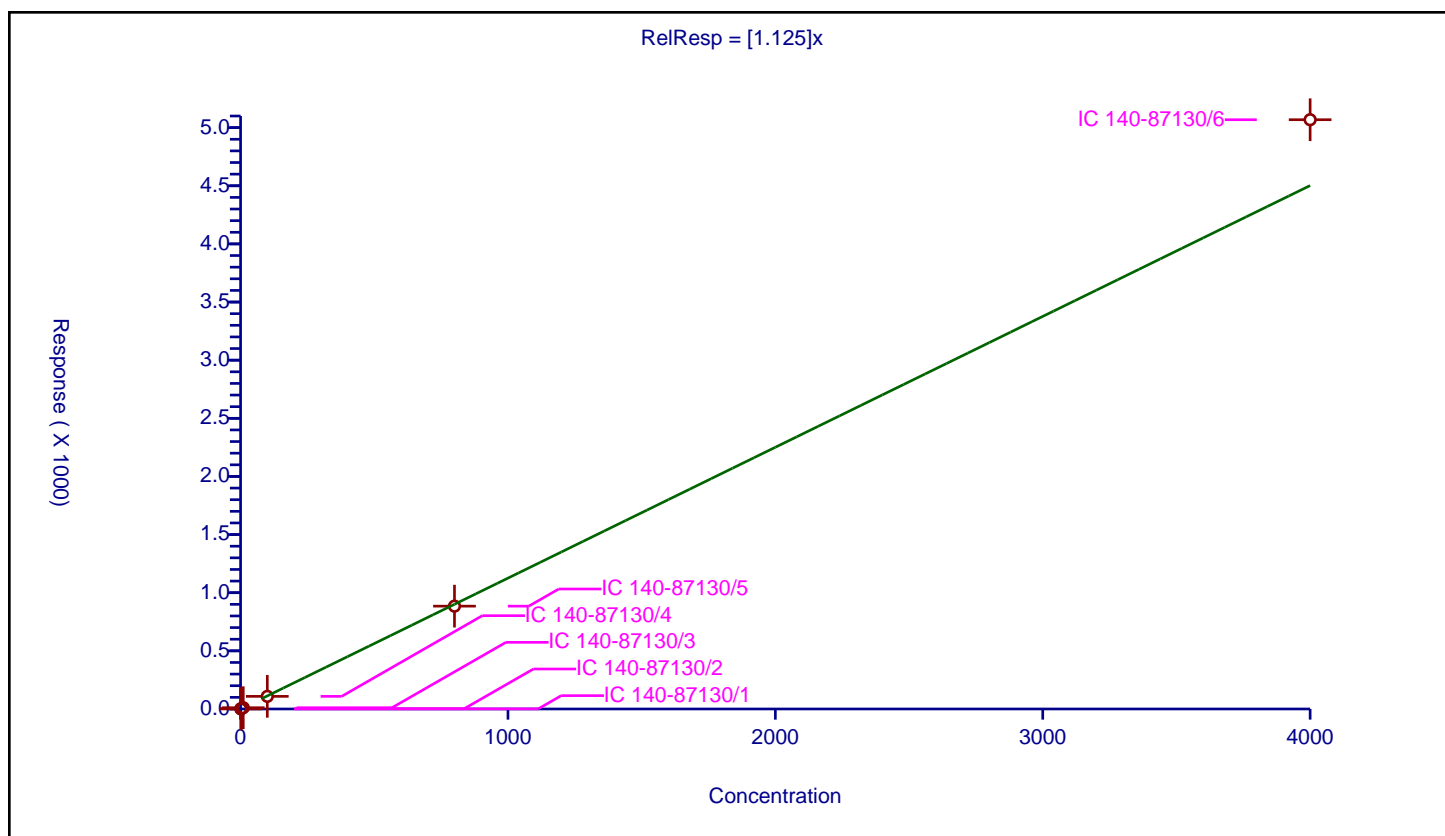
## Curve Coefficients

Intercept: 0  
Slope: 1.125

## Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.087491	100.0	14507892.0	1.087491	Y
2	IC 140-87130/2	2.0	2.23807	100.0	13255798.0	1.119035	Y
3	IC 140-87130/3	10.0	10.874516	100.0	13114910.0	1.087452	Y
4	IC 140-87130/4	100.0	108.610892	100.0	13535671.0	1.086109	Y
5	IC 140-87130/5	800.0	884.50471	100.0	14730805.0	1.105631	Y
6	IC 140-87130/6	4000.0	5068.172448	100.0	15552321.0	1.267043	Y



## Calibration

/ PCB-3

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

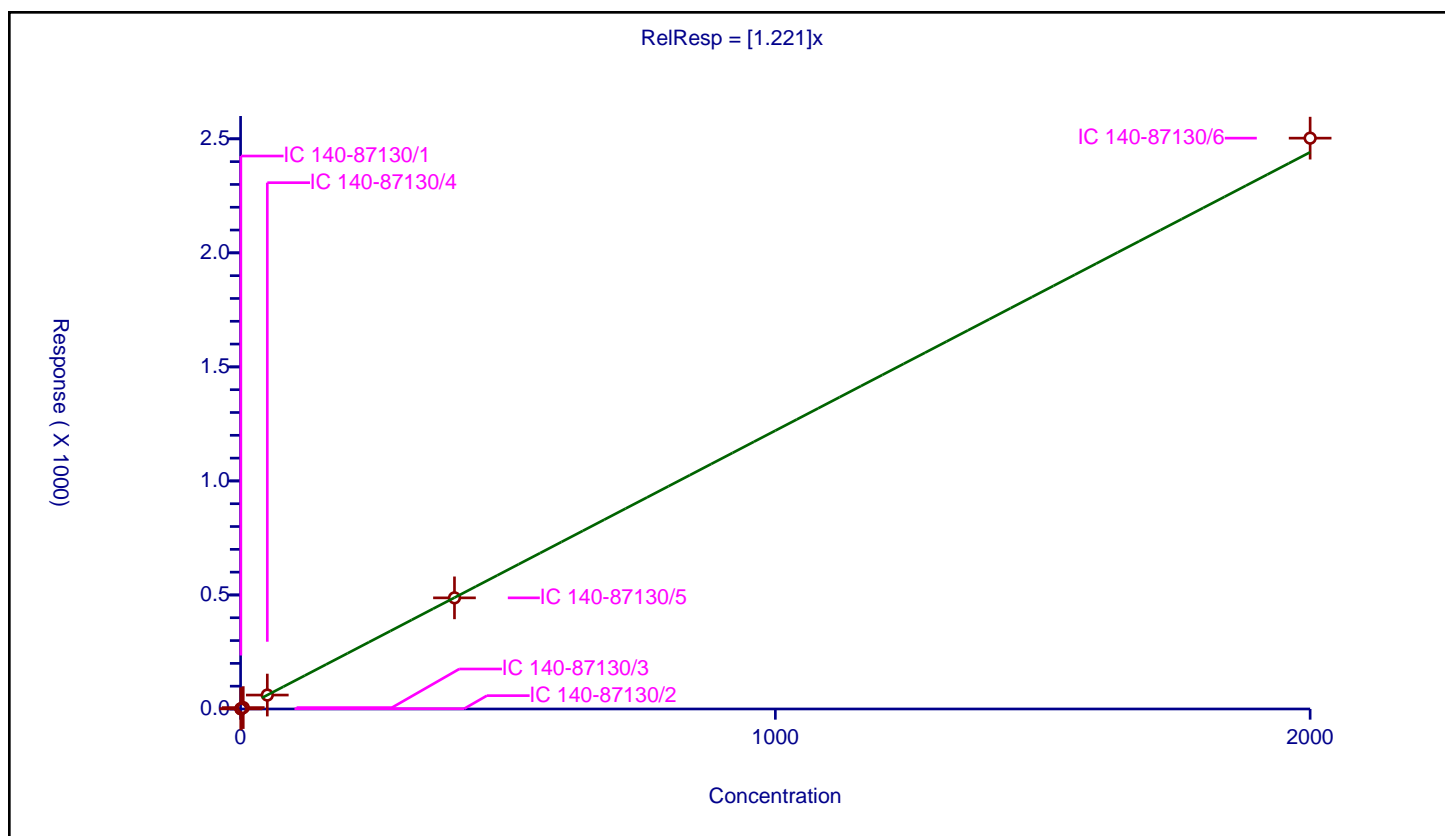
## Curve Coefficients

Intercept: 0  
Slope: 1.221

## Error Coefficients

Relative Standard Deviation: 1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.617382	100.0	14134368.0	1.234763	Y
2	IC 140-87130/2	1.0	1.180658	100.0	13166477.0	1.180658	Y
3	IC 140-87130/3	5.0	6.081014	100.0	13154993.0	1.216203	Y
4	IC 140-87130/4	50.0	61.104113	100.0	13165806.0	1.222082	Y
5	IC 140-87130/5	400.0	487.316703	100.0	13803706.0	1.218292	Y
6	IC 140-87130/6	2000.0	2502.98306	100.0	14397062.0	1.251492	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

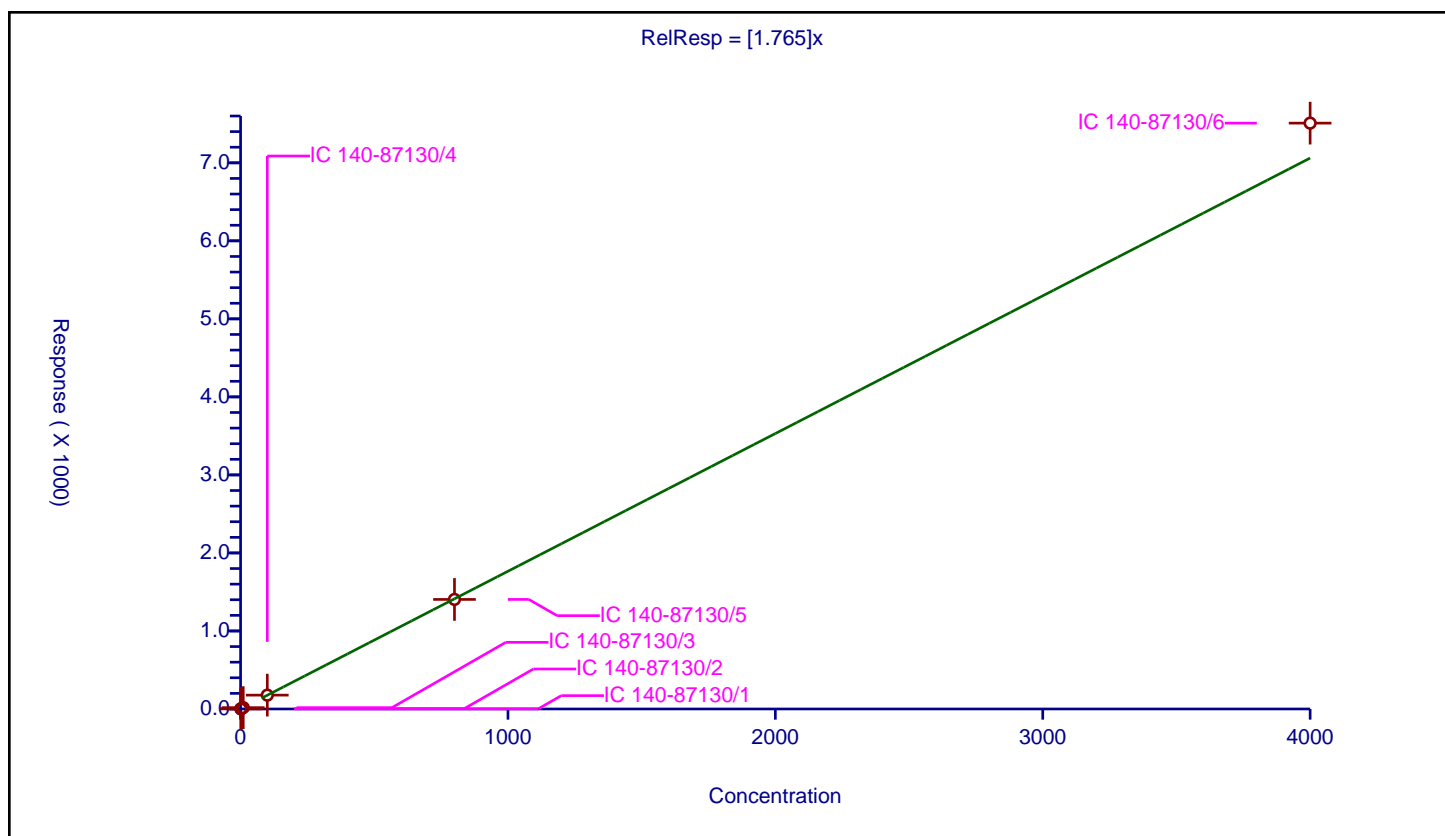
## Curve Coefficients

Intercept: 0  
Slope: 1.765

## Error Coefficients

Relative Standard Deviation: 3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.697941	100.0	3711790.0	1.697941	Y
2	IC 140-87130/2	2.0	3.493684	100.0	3424036.0	1.746842	Y
3	IC 140-87130/3	10.0	17.367846	100.0	3389482.0	1.736785	Y
4	IC 140-87130/4	100.0	177.714869	100.0	3406868.0	1.777149	Y
5	IC 140-87130/5	800.0	1404.321535	100.0	3537933.0	1.755402	Y
6	IC 140-87130/6	4000.0	7508.781366	100.0	3634856.0	1.877195	Y



# Calibration

/ PCB-31

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

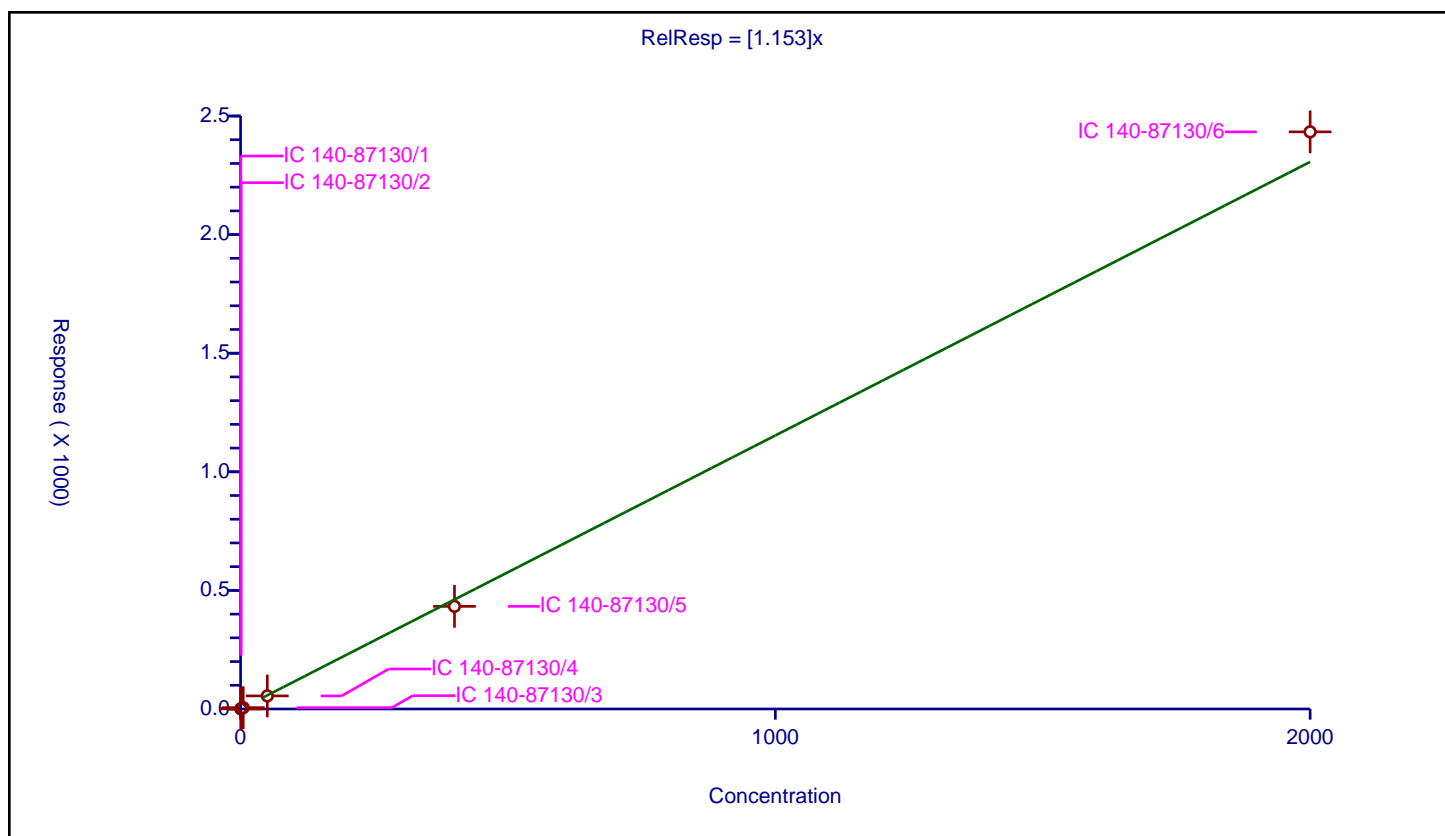
## Curve Coefficients

Intercept: 0  
Slope: 1.153

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.584882	100.0	14507892.0	1.169763	Y
2	IC 140-87130/2	1.0	1.213363	100.0	13255798.0	1.213363	Y
3	IC 140-87130/3	5.0	5.680359	100.0	13114910.0	1.136072	Y
4	IC 140-87130/4	50.0	55.103799	100.0	13535671.0	1.102076	Y
5	IC 140-87130/5	400.0	432.638725	100.0	14730805.0	1.081597	Y
6	IC 140-87130/6	2000.0	2433.21782	100.0	15552321.0	1.216609	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

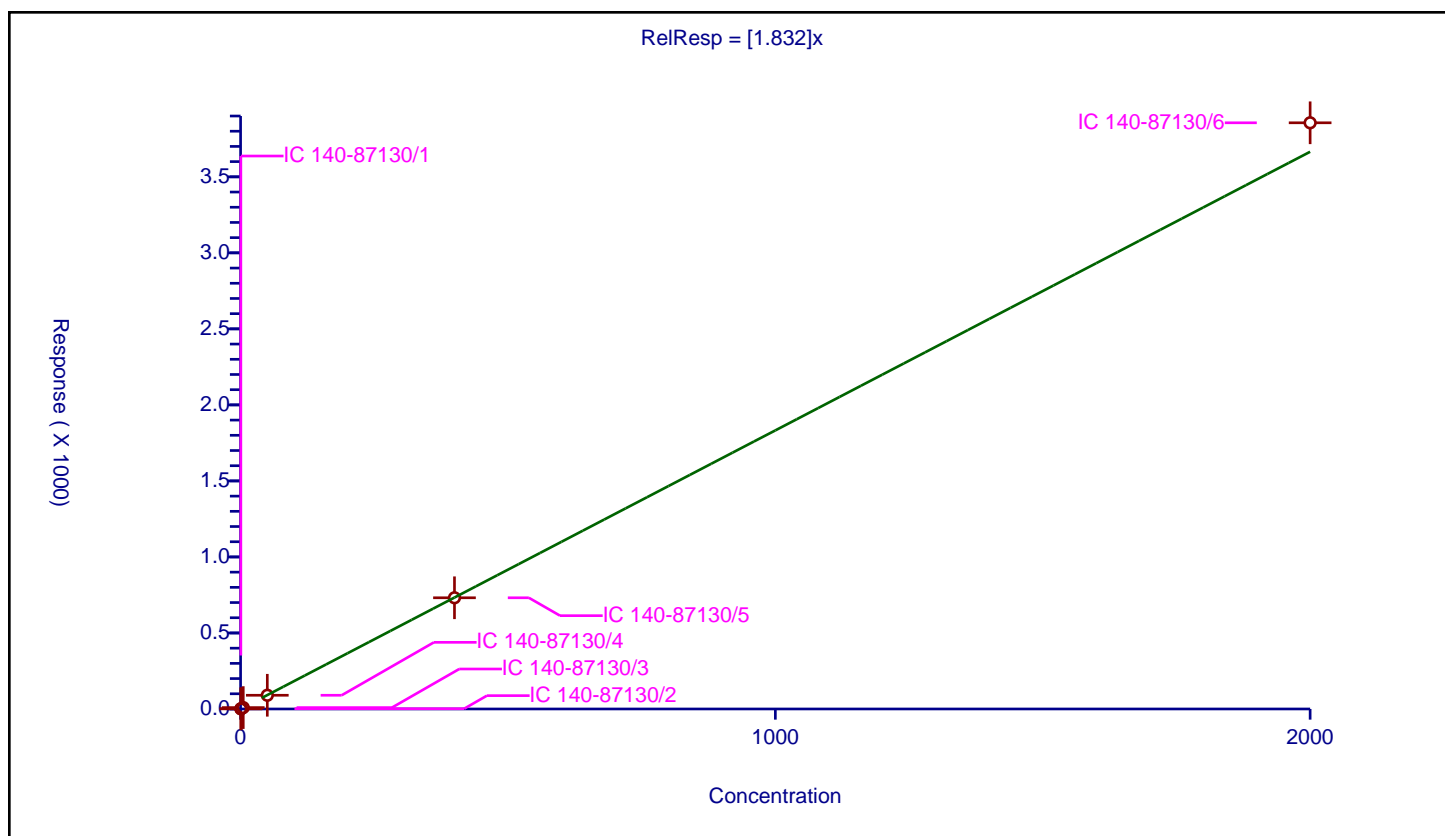
## Curve Coefficients

Intercept: 0  
Slope: 1.832

## Error Coefficients

Relative Standard Deviation: 3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.921792	100.0	3711790.0	1.843585	Y
2	IC 140-87130/2	1.0	1.758948	100.0	3424036.0	1.758948	Y
3	IC 140-87130/3	5.0	9.147651	100.0	3389482.0	1.82953	Y
4	IC 140-87130/4	50.0	90.314858	100.0	3406868.0	1.806297	Y
5	IC 140-87130/5	400.0	731.427955	100.0	3537933.0	1.82857	Y
6	IC 140-87130/6	2000.0	3855.398646	100.0	3634856.0	1.927699	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

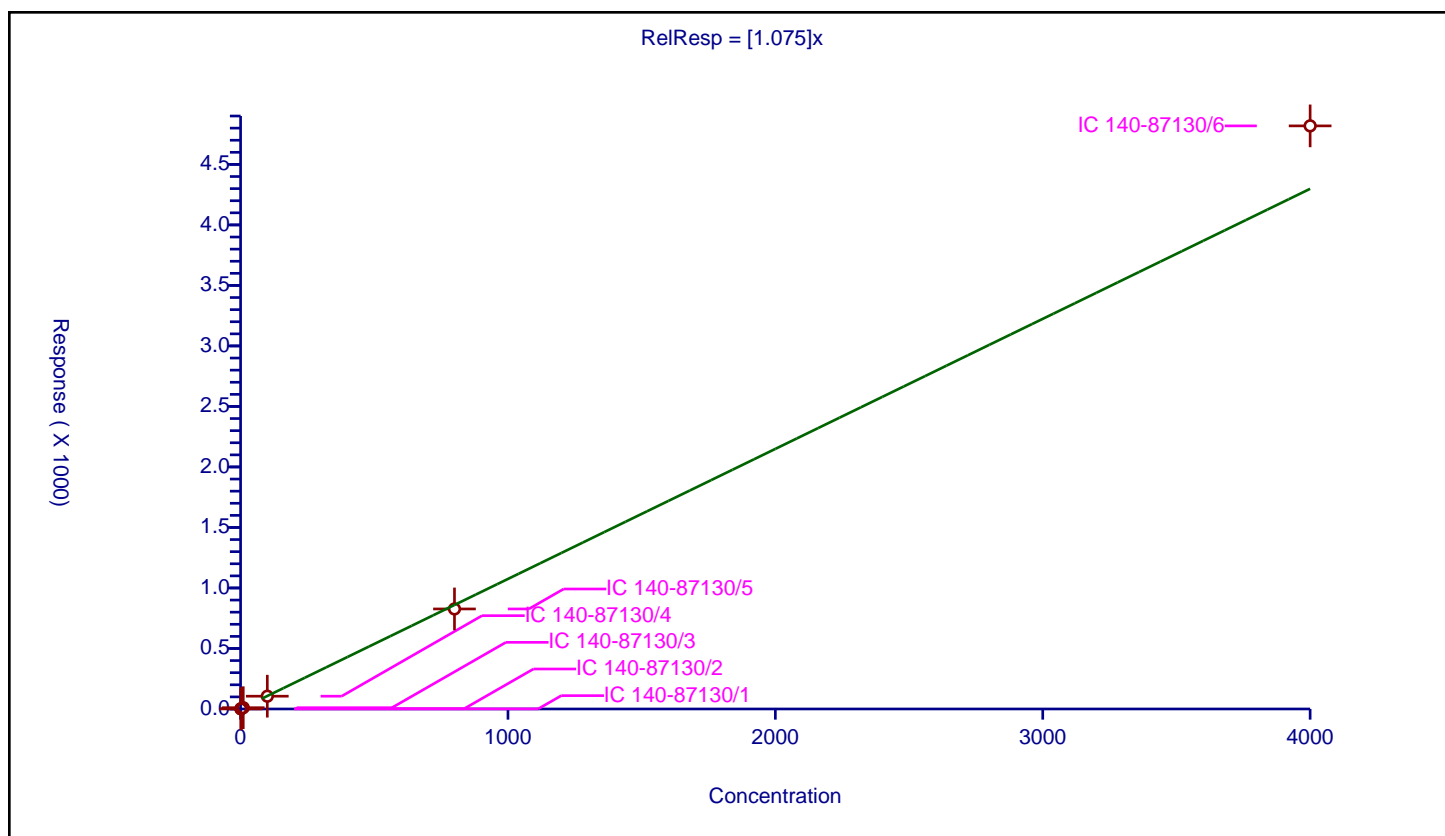
## Curve Coefficients

Intercept: 0  
Slope: 1.075

## Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.018136	100.0	14507892.0	1.018136	Y
2	IC 140-87130/2	2.0	2.127311	100.0	13255798.0	1.063655	Y
3	IC 140-87130/3	10.0	10.703085	100.0	13114910.0	1.070309	Y
4	IC 140-87130/4	100.0	105.751285	100.0	13535671.0	1.057513	Y
5	IC 140-87130/5	800.0	826.614581	100.0	14730805.0	1.033268	Y
6	IC 140-87130/6	4000.0	4818.507366	100.0	15552321.0	1.204627	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

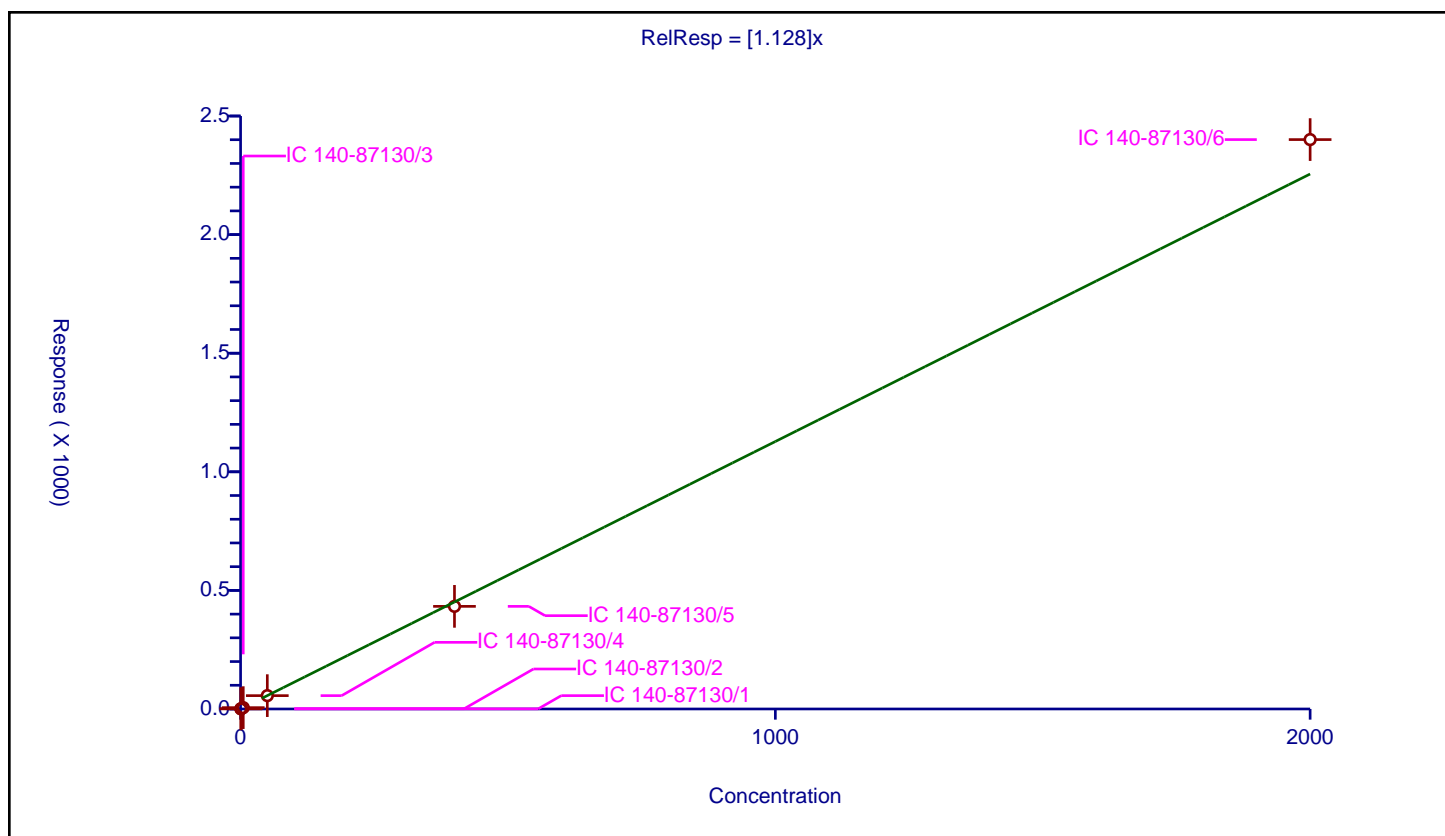
## Curve Coefficients

Intercept: 0  
Slope: 1.128

## Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.563776	100.0	14507892.0	1.127552	Y
2	IC 140-87130/2	1.0	1.100062	100.0	13255798.0	1.100062	Y
3	IC 140-87130/3	5.0	5.657286	100.0	13114910.0	1.131457	Y
4	IC 140-87130/4	50.0	56.272681	100.0	13535671.0	1.125454	Y
5	IC 140-87130/5	400.0	432.655065	100.0	14730805.0	1.081638	Y
6	IC 140-87130/6	2000.0	2400.579778	100.0	15552321.0	1.20029	Y



**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

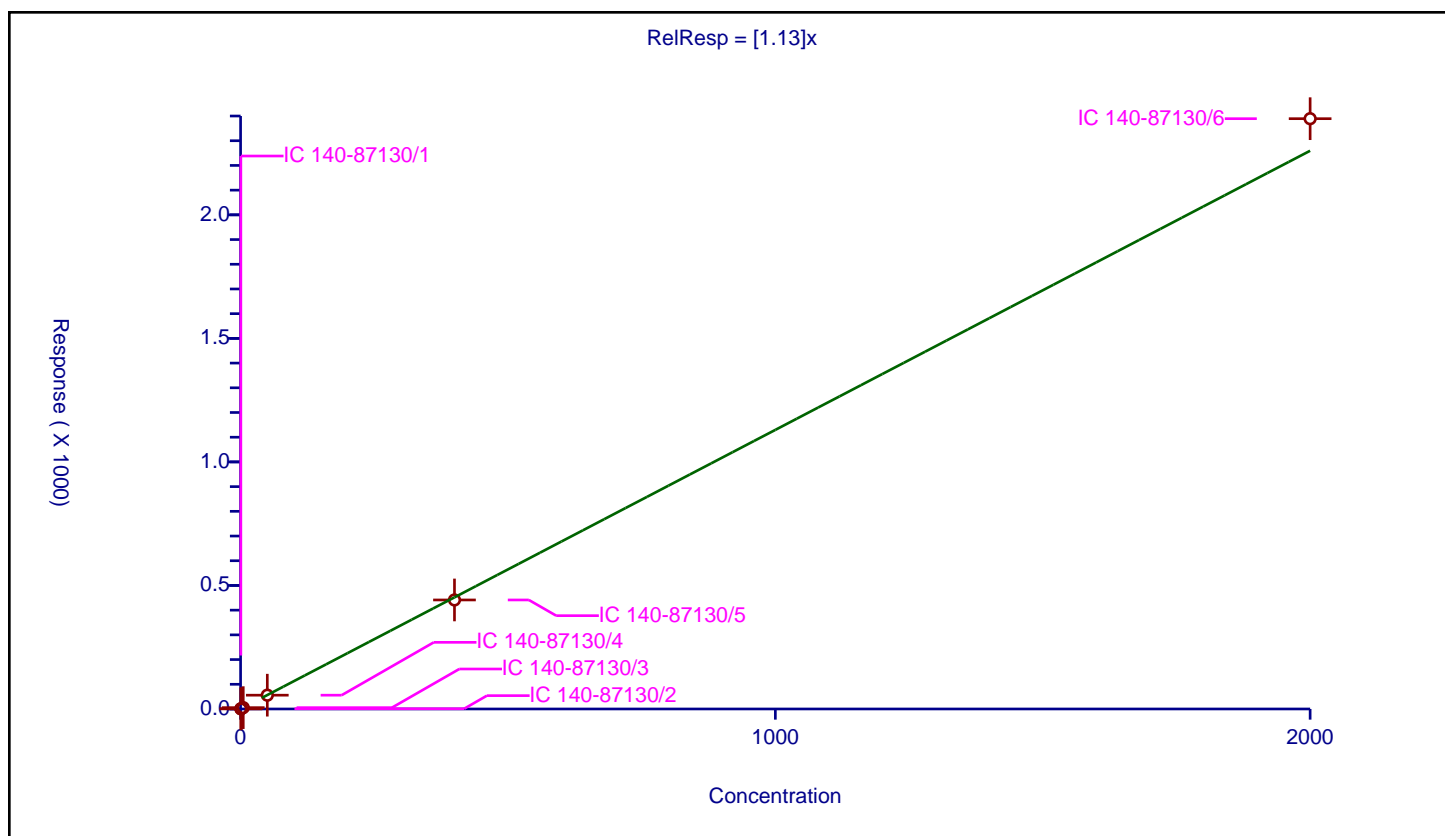
## Curve Coefficients

**Intercept:** 0  
**Slope:** 1.13

## Error Coefficients

**Relative Standard Deviation:** 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.593215	100.0	14507892.0	1.18643	Y
2	IC 140-87130/2	1.0	1.076827	100.0	13255798.0	1.076827	Y
3	IC 140-87130/3	5.0	5.498276	100.0	13114910.0	1.099655	Y
4	IC 140-87130/4	50.0	55.869347	100.0	13535671.0	1.117387	Y
5	IC 140-87130/5	400.0	441.28255	100.0	14730805.0	1.103206	Y
6	IC 140-87130/6	2000.0	2389.202557	100.0	15552321.0	1.194601	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

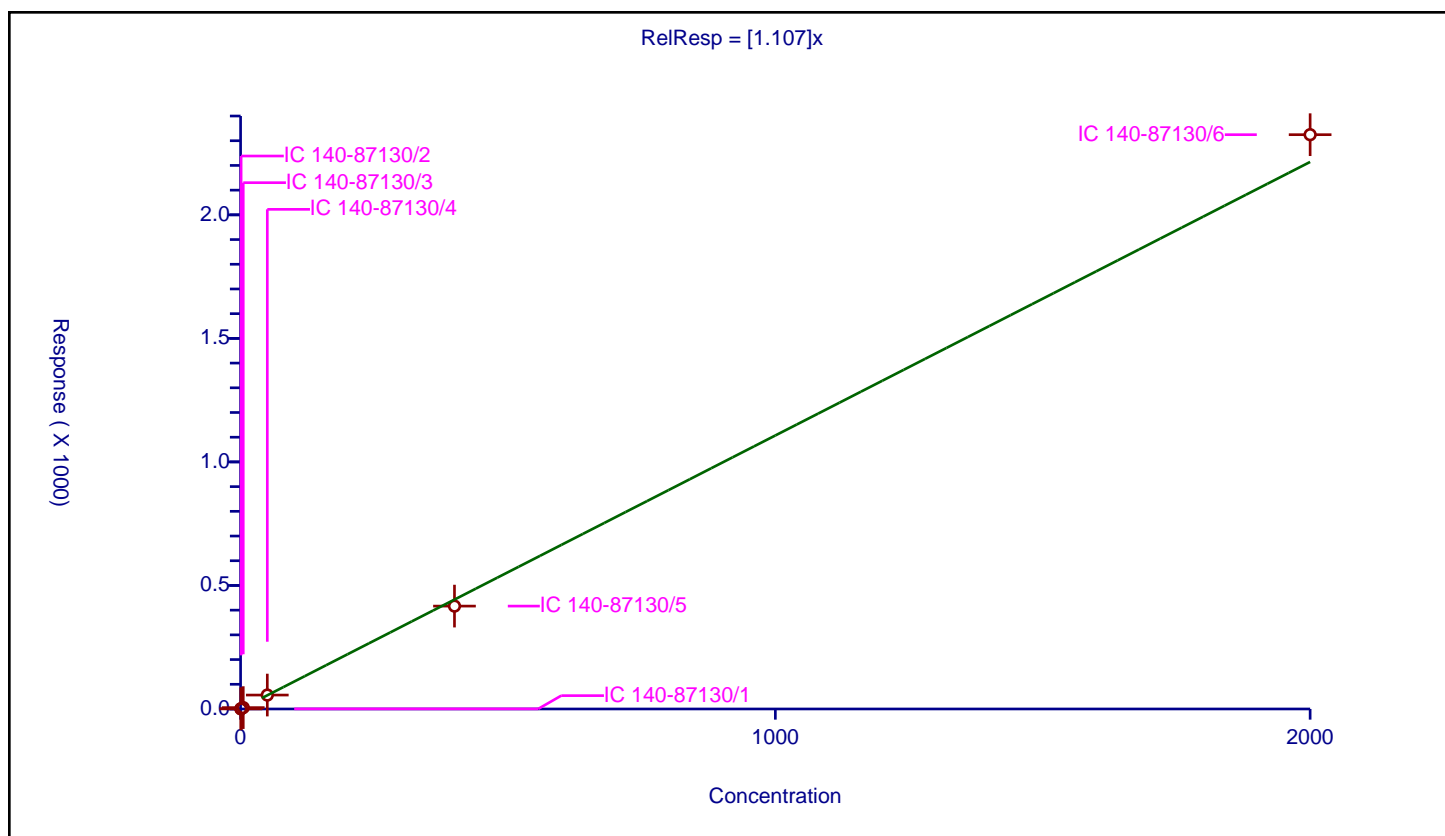
## Curve Coefficients

Intercept: 0  
Slope: 1.107

## Error Coefficients

Relative Standard Deviation: 4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.529546	100.0	14507892.0	1.059093	Y
2	IC 140-87130/2	1.0	1.136786	100.0	13255798.0	1.136786	Y
3	IC 140-87130/3	5.0	5.57727	100.0	13114910.0	1.115454	Y
4	IC 140-87130/4	50.0	56.385915	100.0	13535671.0	1.127718	Y
5	IC 140-87130/5	400.0	416.423699	100.0	14730805.0	1.041059	Y
6	IC 140-87130/6	2000.0	2324.412298	100.0	15552321.0	1.162206	Y



# Calibration

/ PCB-37

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

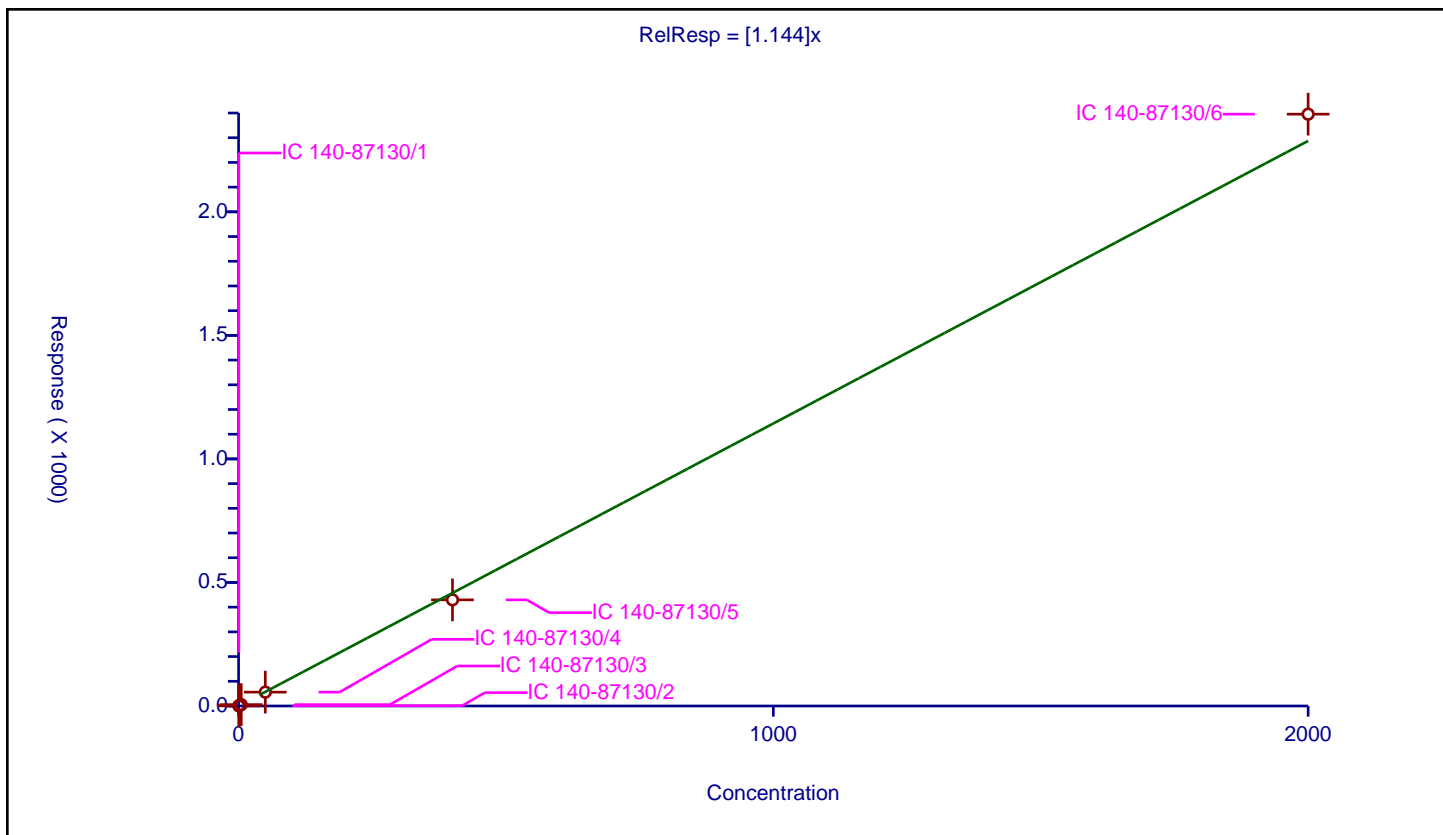
## Curve Coefficients

Intercept: 0  
 Slope: 1.144

## Error Coefficients

Relative Standard Deviation: 5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.622316	100.0	14507892.0	1.244633	Y
2	IC 140-87130/2	1.0	1.120151	100.0	13255798.0	1.120151	Y
3	IC 140-87130/3	5.0	5.516561	100.0	13114910.0	1.103312	Y
4	IC 140-87130/4	50.0	56.069758	100.0	13535671.0	1.121395	Y
5	IC 140-87130/5	400.0	429.577739	100.0	14730805.0	1.073944	Y
6	IC 140-87130/6	2000.0	2395.326453	100.0	15552321.0	1.197663	Y



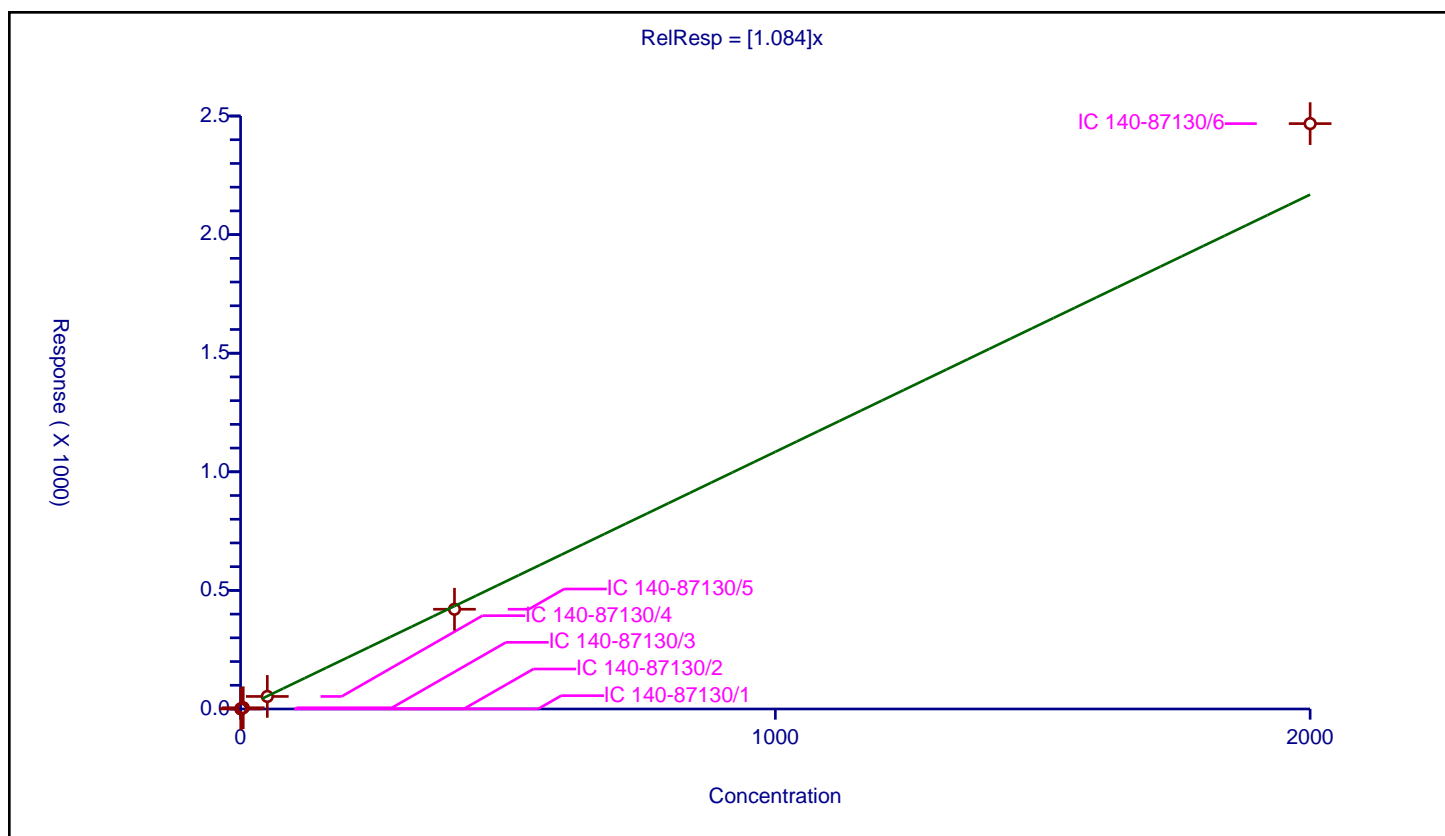
## / PCB-38

## Curve Coefficients

## Error Coefficients

Relative Standard Deviation: 6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.525011	100.0	14507892.0	1.050022	Y
2	IC 140-87130/2	1.0	1.076125	100.0	13255798.0	1.076125	Y
3	IC 140-87130/3	5.0	5.187546	100.0	13114910.0	1.037509	Y
4	IC 140-87130/4	50.0	52.845707	100.0	13535671.0	1.056914	Y
5	IC 140-87130/5	400.0	420.536977	100.0	14730805.0	1.051342	Y
6	IC 140-87130/6	2000.0	2467.944026	100.0	15552321.0	1.233972	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

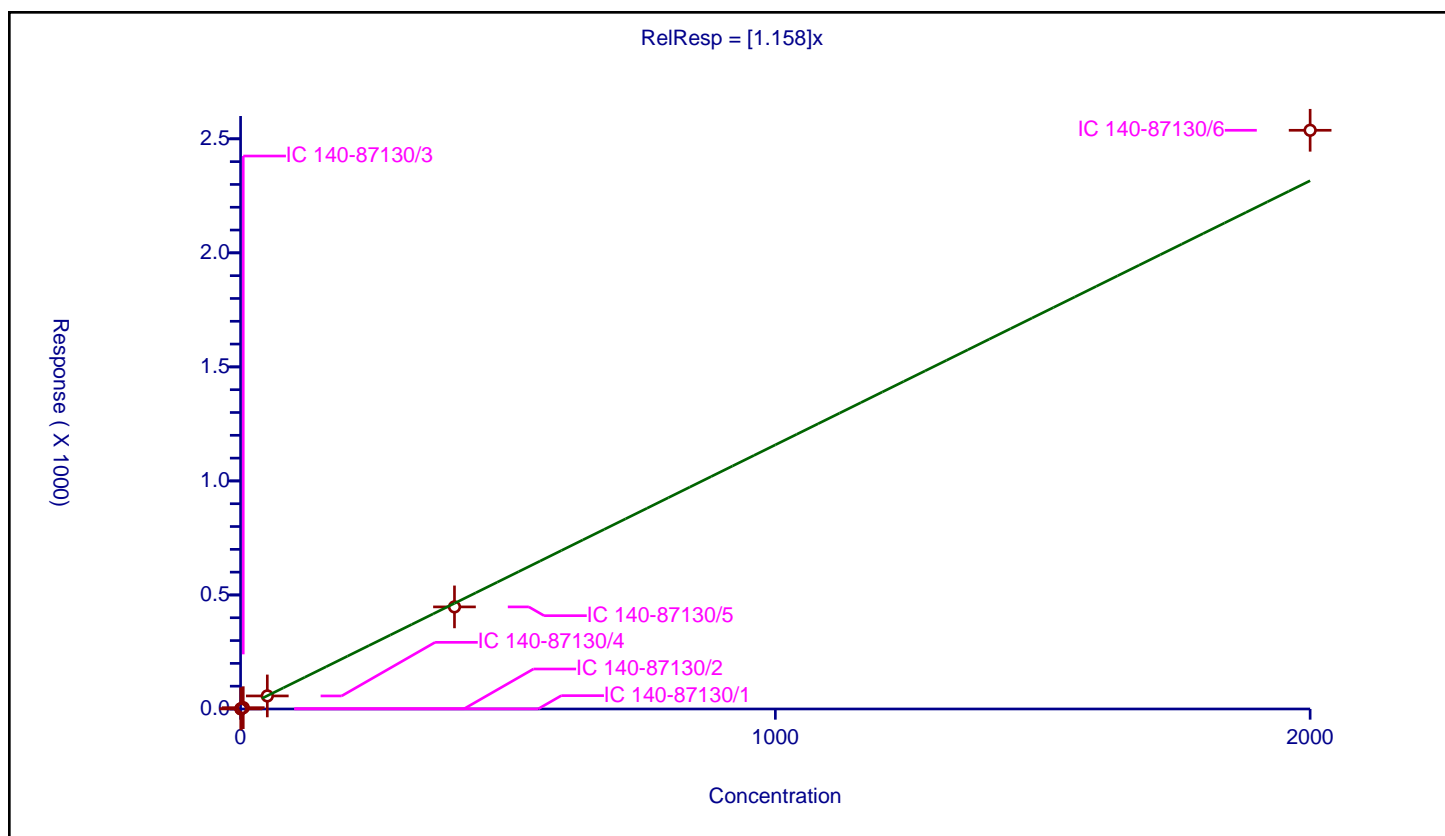
## Curve Coefficients

Intercept: 0  
Slope: 1.158

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.559309	100.0	14507892.0	1.118619	Y
2	IC 140-87130/2	1.0	1.137834	100.0	13255798.0	1.137834	Y
3	IC 140-87130/3	5.0	5.796189	100.0	13114910.0	1.159238	Y
4	IC 140-87130/4	50.0	57.27255	100.0	13535671.0	1.145451	Y
5	IC 140-87130/5	400.0	447.593434	100.0	14730805.0	1.118984	Y
6	IC 140-87130/6	2000.0	2537.463514	100.0	15552321.0	1.268732	Y



# Calibration

/ PCB-4

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

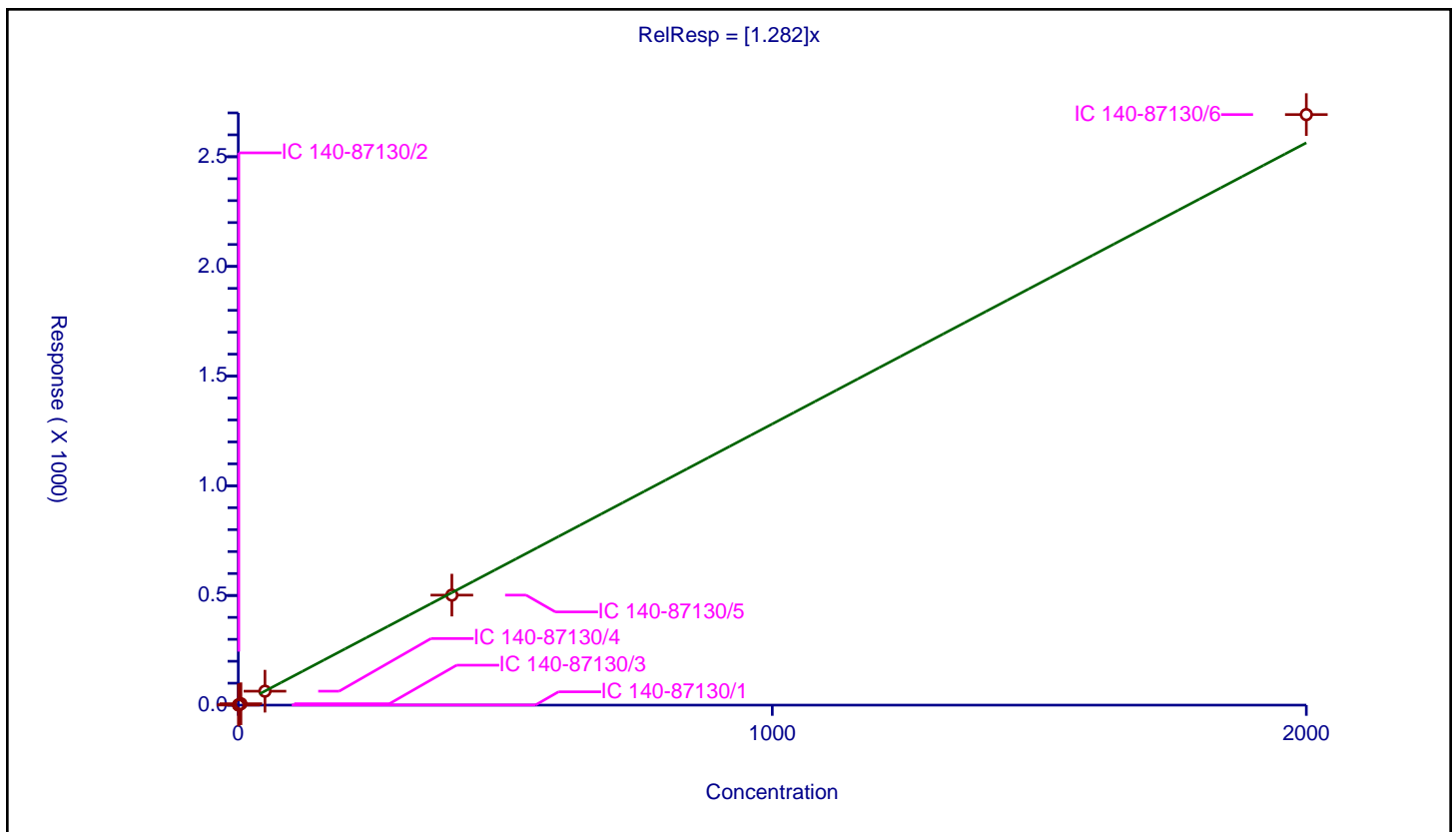
## Curve Coefficients

Intercept: 0  
Slope: 1.282

## Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.616036	100.0	5904521.0	1.232073	Y
2	IC 140-87130/2	1.0	1.309647	100.0	5442766.0	1.309647	Y
3	IC 140-87130/3	5.0	6.390433	100.0	5279032.0	1.278087	Y
4	IC 140-87130/4	50.0	63.568468	100.0	5474214.0	1.271369	Y
5	IC 140-87130/5	400.0	501.47876	100.0	5561618.0	1.253697	Y
6	IC 140-87130/6	2000.0	2692.23998	100.0	5672202.0	1.34612	Y



# Calibration

/ PCB-40

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

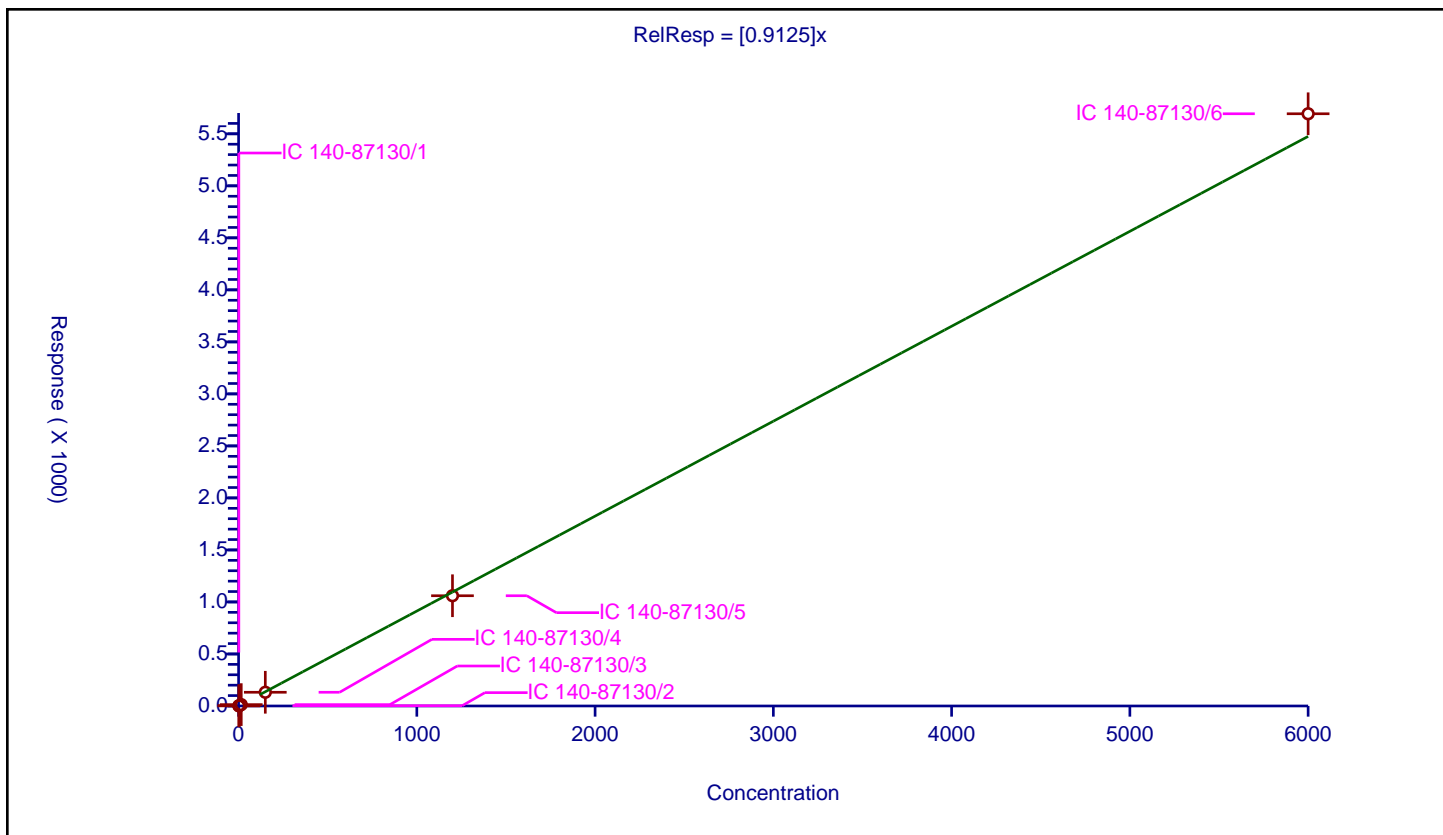
## Curve Coefficients

Intercept: 0  
 Slope: 0.9125

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



# Calibration

/ PCB-40/41/71

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

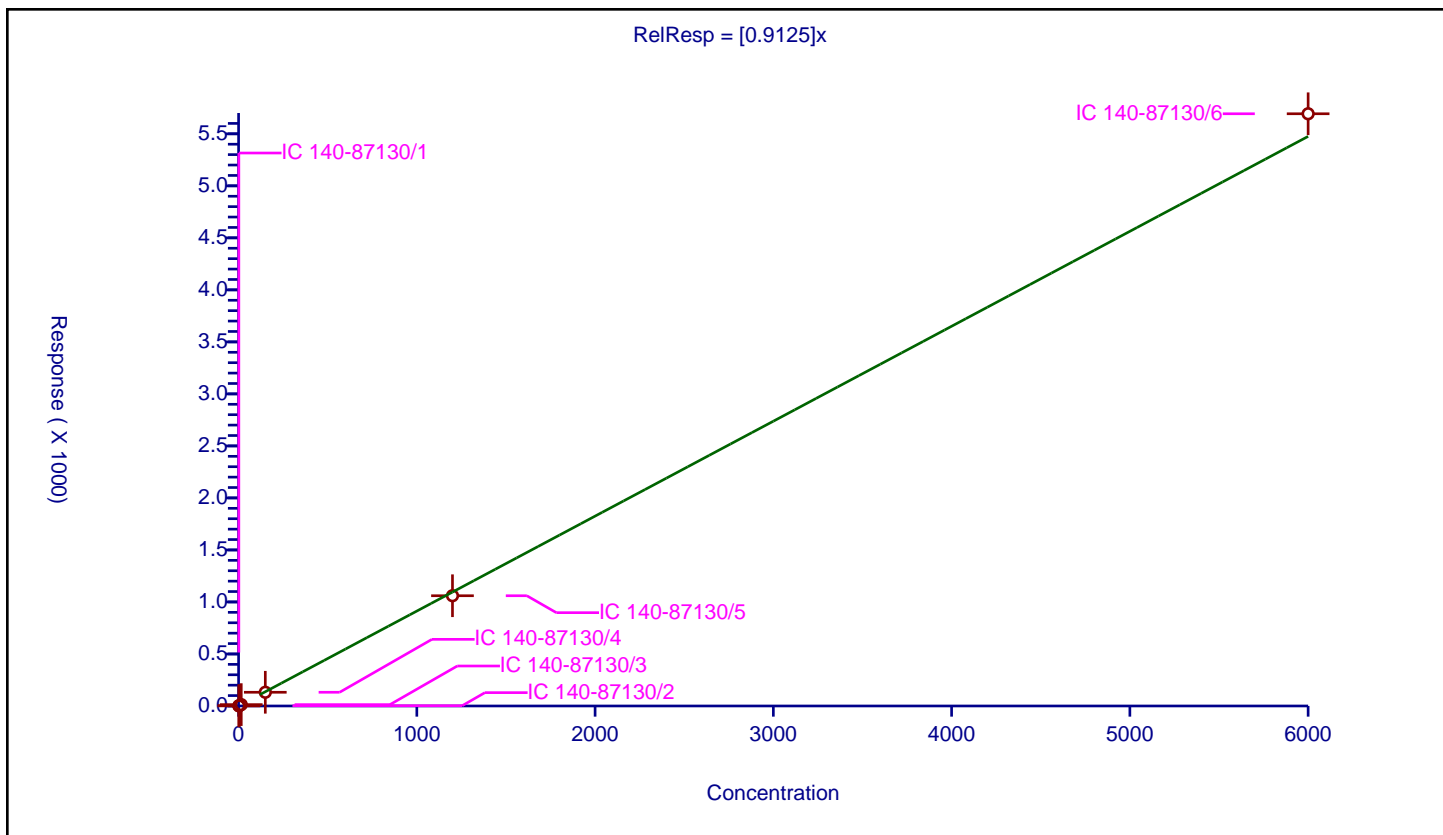
## Curve Coefficients

Intercept: 0  
Slope: 0.9125

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y



# Calibration

/ PCB-41

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

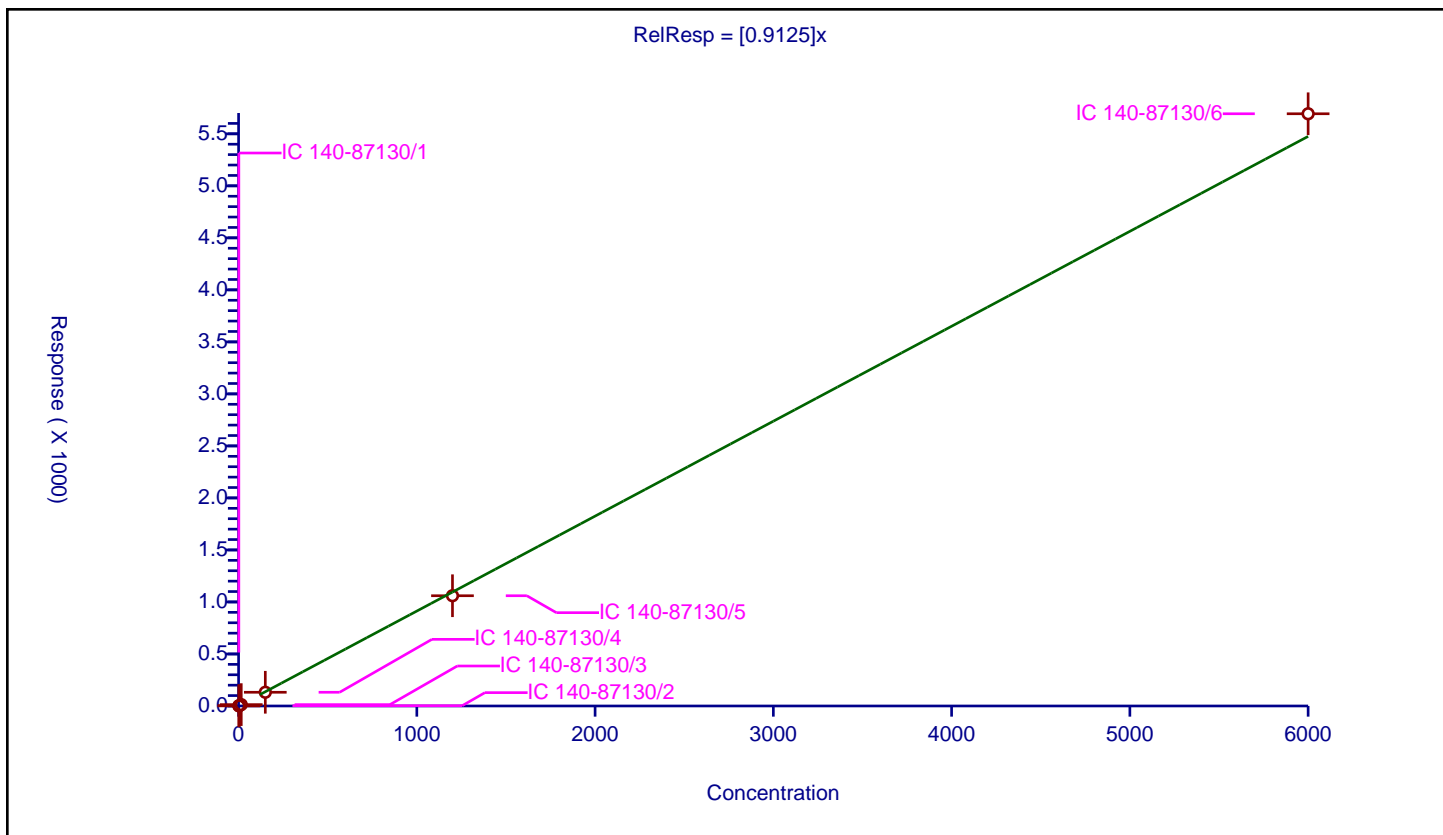
## Curve Coefficients

Intercept: 0  
Slope: 0.9125

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y





Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

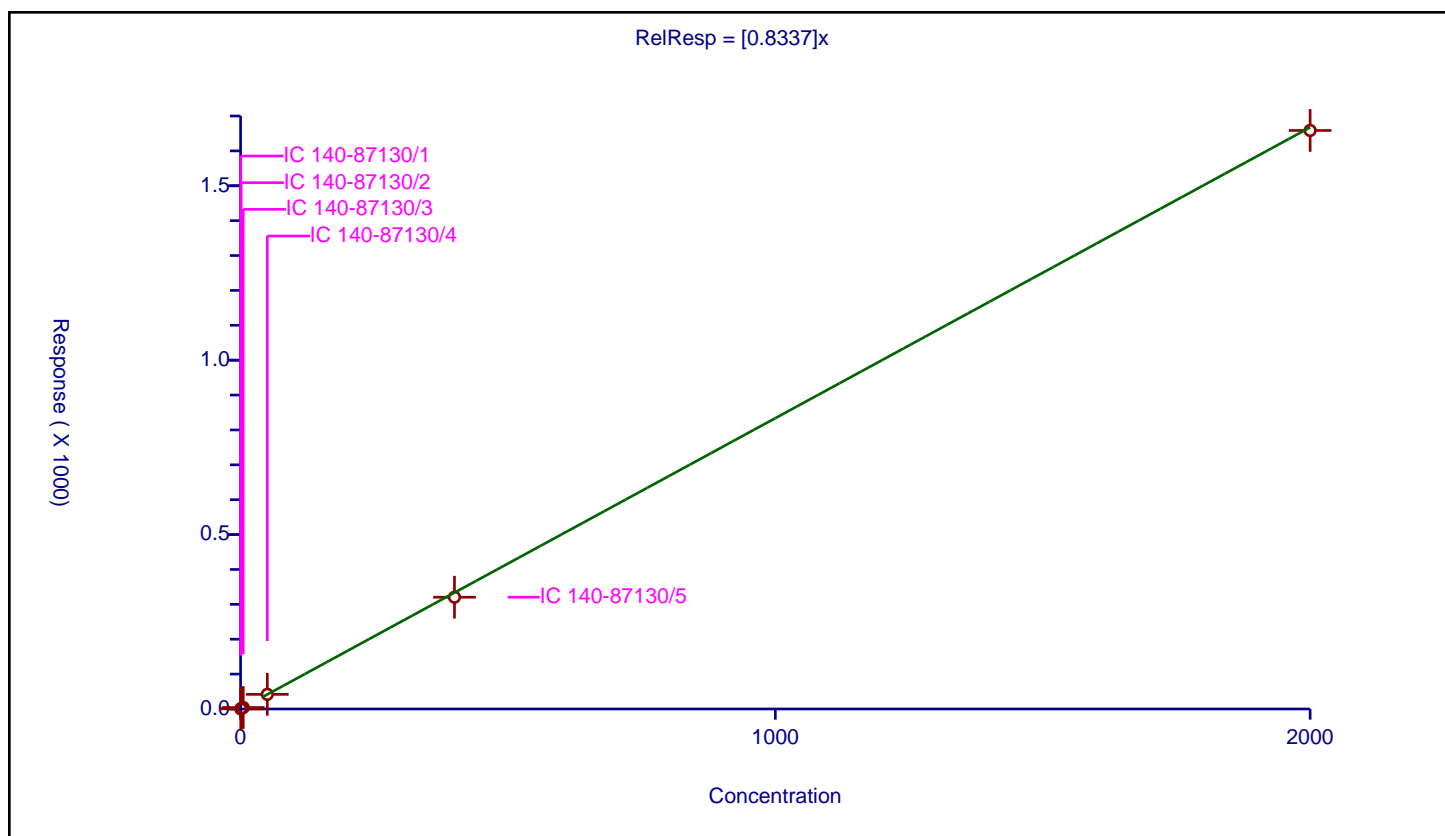
## Curve Coefficients

Intercept: 0  
Slope: 0.8337

## Error Coefficients

Relative Standard Deviation: 2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.41986	100.0	10352263.0	0.83972	Y
2	IC 140-87130/2	1.0	0.846767	100.0	9378026.0	0.846767	Y
3	IC 140-87130/3	5.0	4.235898	100.0	9411321.0	0.84718	Y
4	IC 140-87130/4	50.0	41.924978	100.0	9689577.0	0.8385	Y
5	IC 140-87130/5	400.0	320.413661	100.0	10335461.0	0.801034	Y
6	IC 140-87130/6	2000.0	1658.557826	100.0	11264701.0	0.829279	Y



# Calibration

/ PCB-43

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

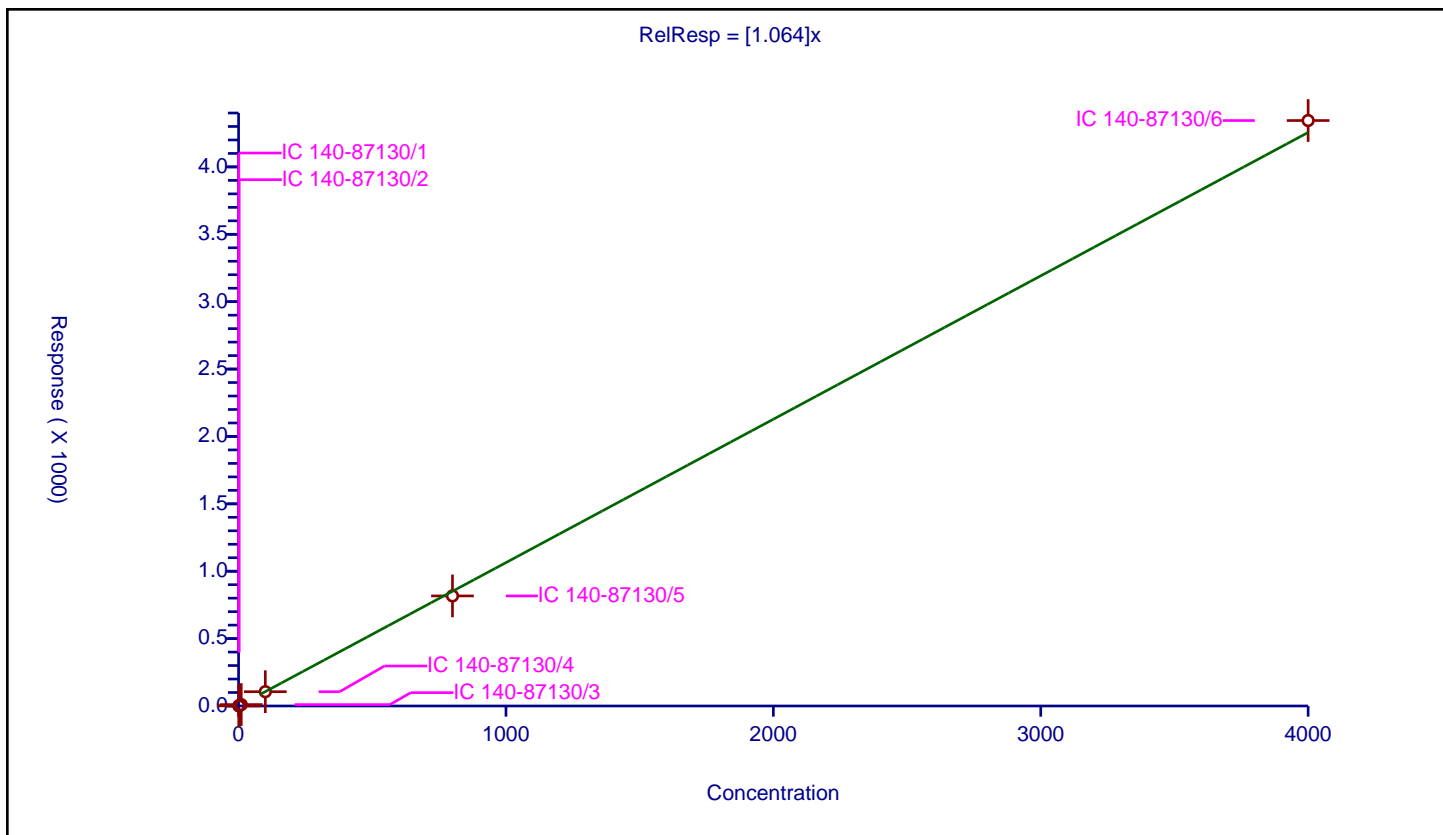
## Curve Coefficients

Intercept: 0  
Slope: 1.064

## Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.113409	100.0	10352263.0	1.113409	Y
2	IC 140-87130/2	2.0	2.135076	100.0	9378026.0	1.067538	Y
3	IC 140-87130/3	10.0	10.359183	100.0	9411321.0	1.035918	Y
4	IC 140-87130/4	100.0	105.993234	100.0	9689577.0	1.059932	Y
5	IC 140-87130/5	800.0	816.641241	100.0	10335461.0	1.020802	Y
6	IC 140-87130/6	4000.0	4344.200454	100.0	11264701.0	1.08605	Y



# Calibration

/ PCB-43/73

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

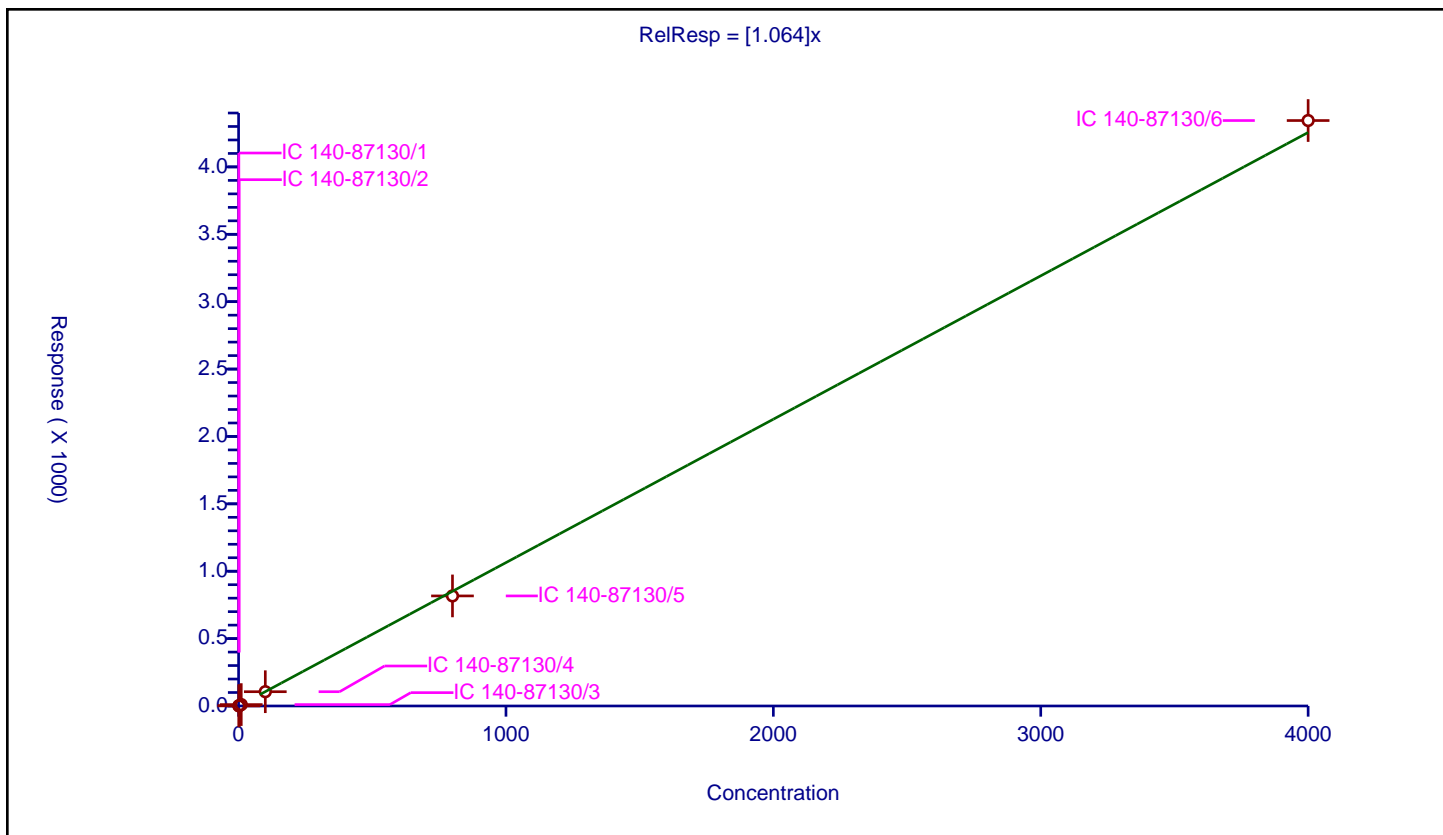
## Curve Coefficients

Intercept: 0  
Slope: 1.064

## Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.113409	100.0	10352263.0	1.113409	Y
2	IC 140-87130/2	2.0	2.135076	100.0	9378026.0	1.067538	Y
3	IC 140-87130/3	10.0	10.359183	100.0	9411321.0	1.035918	Y
4	IC 140-87130/4	100.0	105.993234	100.0	9689577.0	1.059932	Y
5	IC 140-87130/5	800.0	816.641241	100.0	10335461.0	1.020802	Y
6	IC 140-87130/6	4000.0	4344.200454	100.0	11264701.0	1.08605	Y



# Calibration

/ PCB-44

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

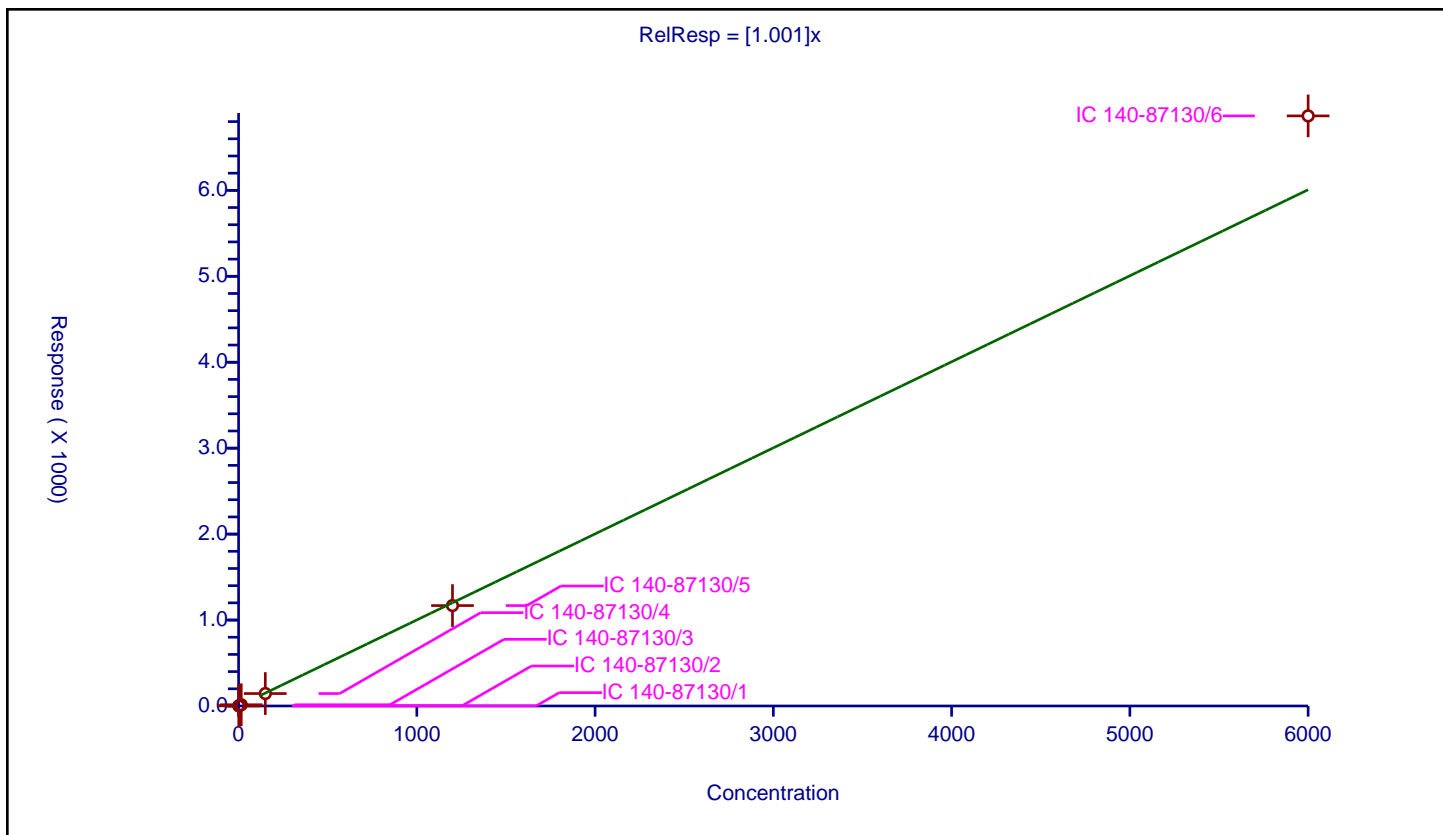
## Curve Coefficients

Intercept: 0  
 Slope: 1.001

## Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



# Calibration

/ PCB-44/47/65

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

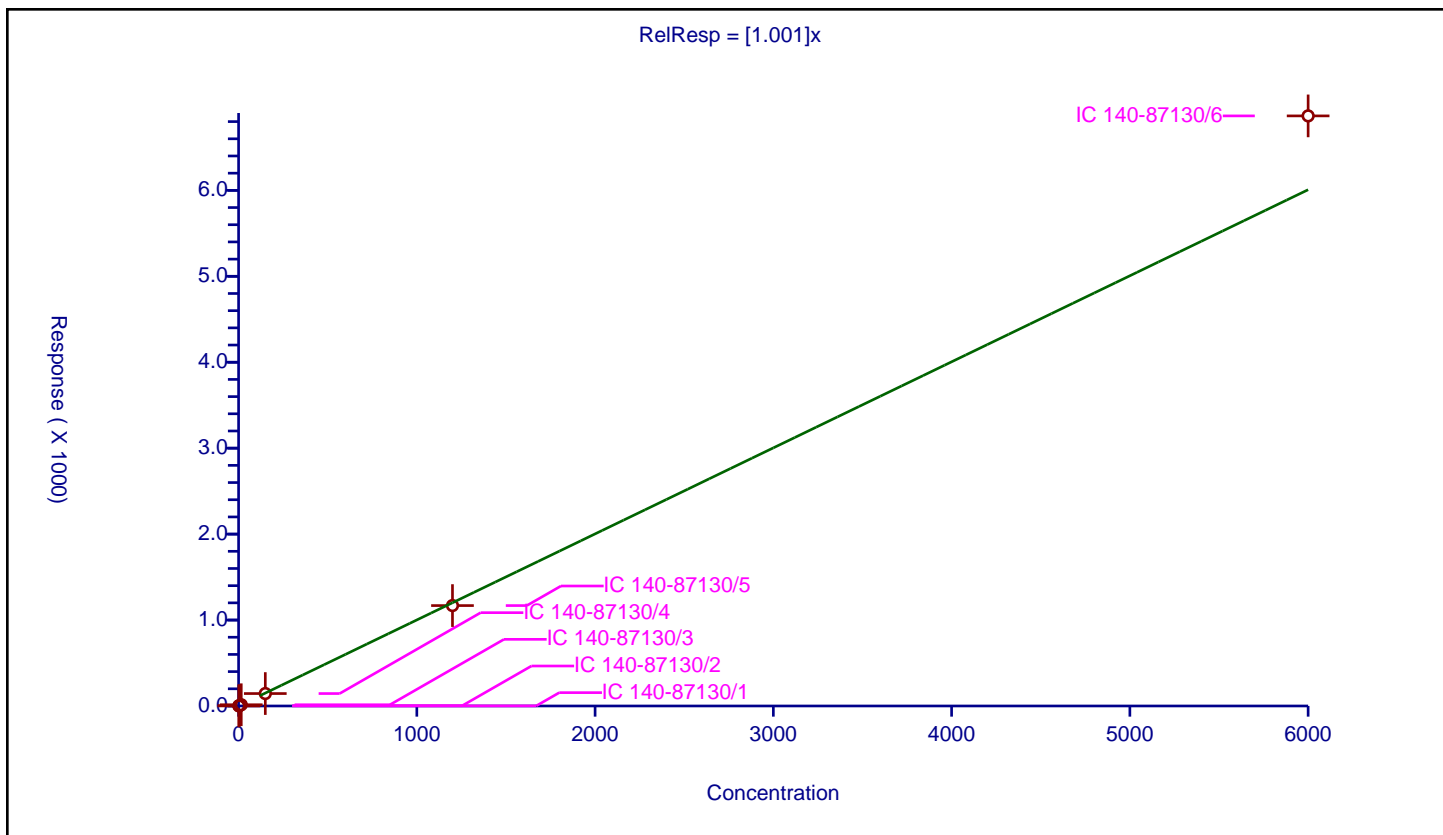
## Curve Coefficients

Intercept: 0  
Slope: 1.001

## Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



# Calibration

/ PCB-45

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

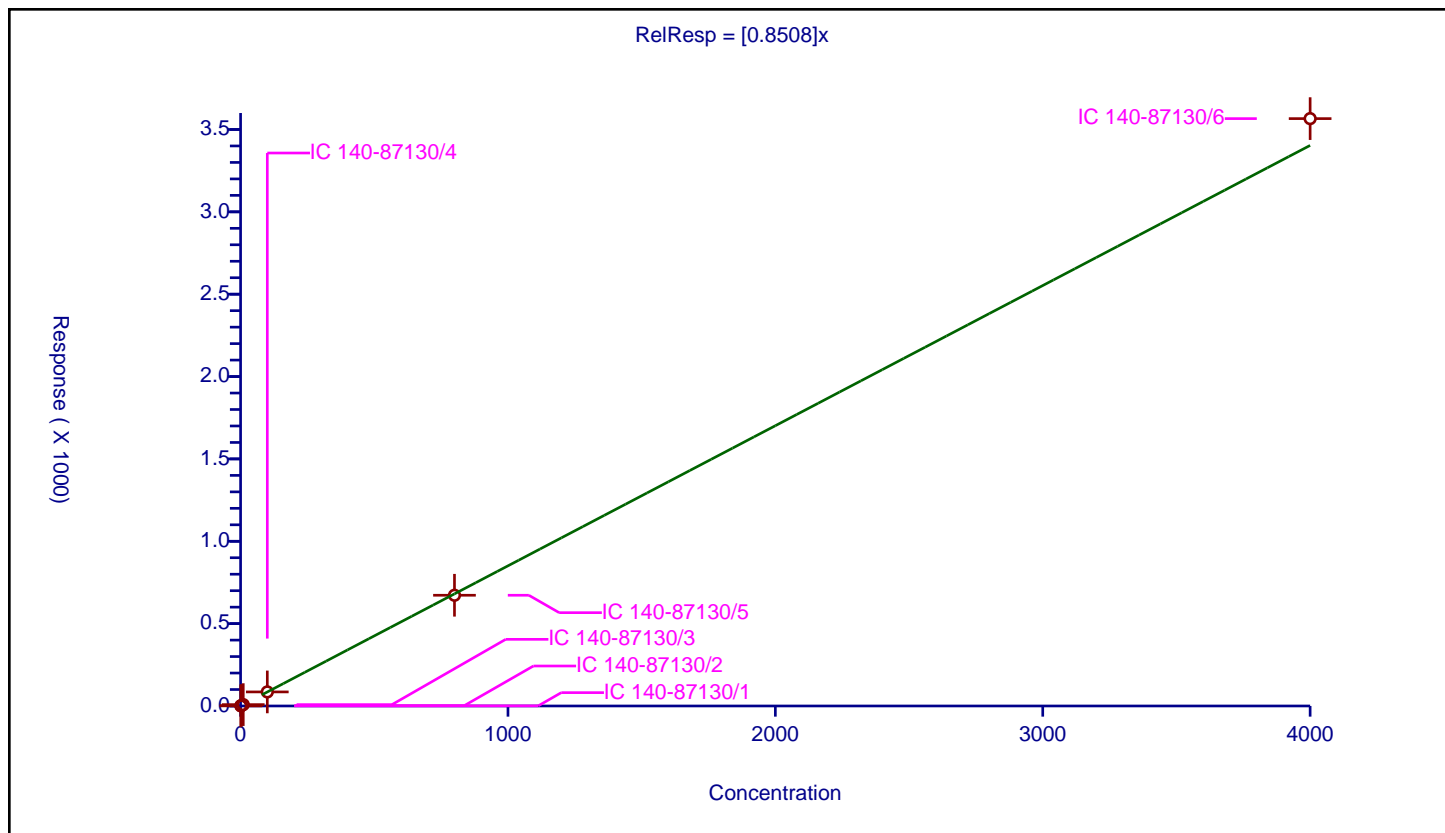
## Curve Coefficients

Intercept: 0  
Slope: 0.8508

## Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.83999	100.0	10352263.0	0.83999	Y
2	IC 140-87130/2	2.0	1.681751	100.0	9378026.0	0.840875	Y
3	IC 140-87130/3	10.0	8.378792	100.0	9411321.0	0.837879	Y
4	IC 140-87130/4	100.0	85.434194	100.0	9689577.0	0.854342	Y
5	IC 140-87130/5	800.0	672.30468	100.0	10335461.0	0.840381	Y
6	IC 140-87130/6	4000.0	3565.952545	100.0	11264701.0	0.891488	Y



# Calibration

/ PCB-45/51

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

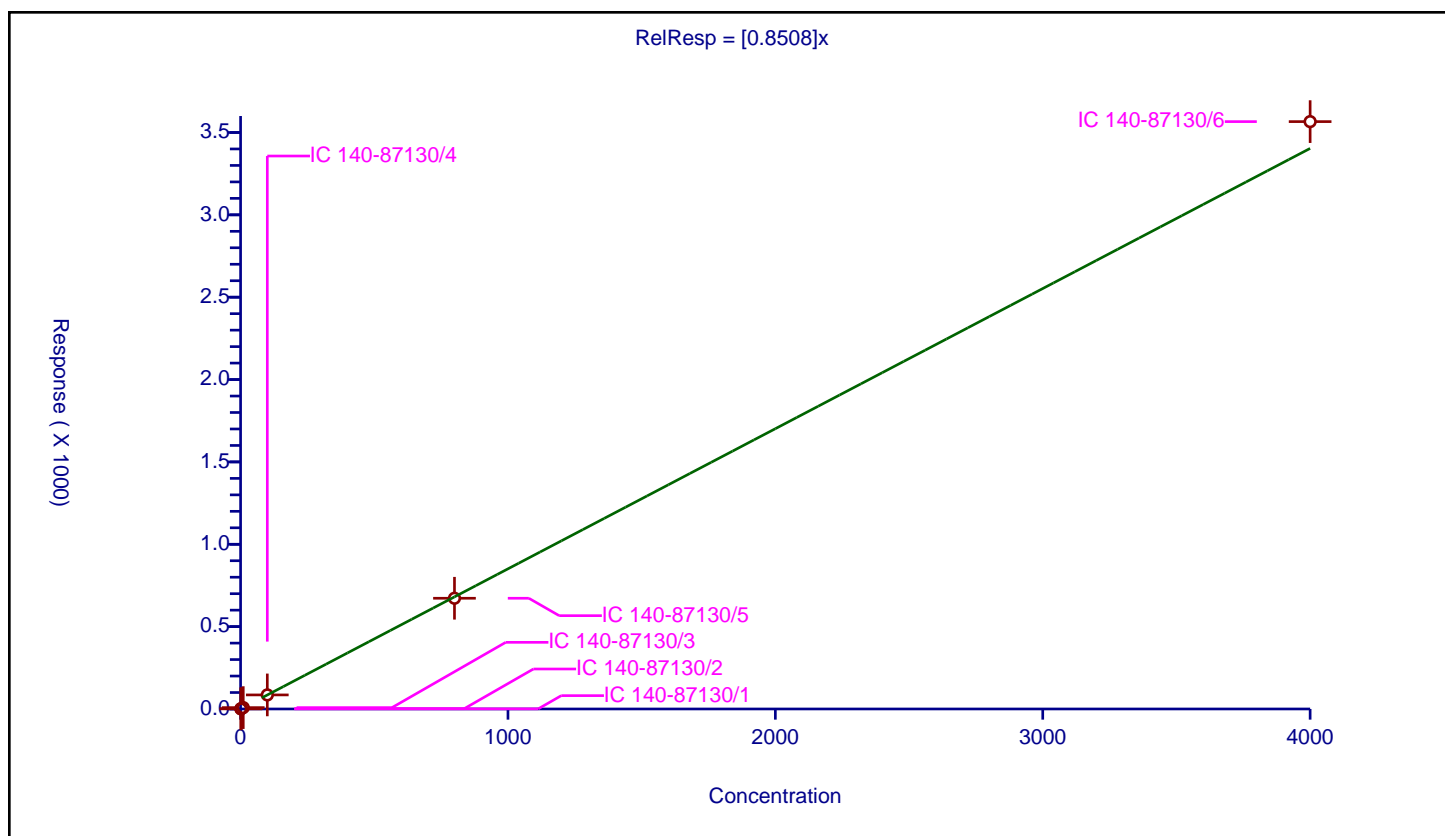
## Curve Coefficients

Intercept: 0  
 Slope: 0.8508

## Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.83999	100.0	10352263.0	0.83999	Y
2	IC 140-87130/2	2.0	1.681751	100.0	9378026.0	0.840875	Y
3	IC 140-87130/3	10.0	8.378792	100.0	9411321.0	0.837879	Y
4	IC 140-87130/4	100.0	85.434194	100.0	9689577.0	0.854342	Y
5	IC 140-87130/5	800.0	672.30468	100.0	10335461.0	0.840381	Y
6	IC 140-87130/6	4000.0	3565.952545	100.0	11264701.0	0.891488	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

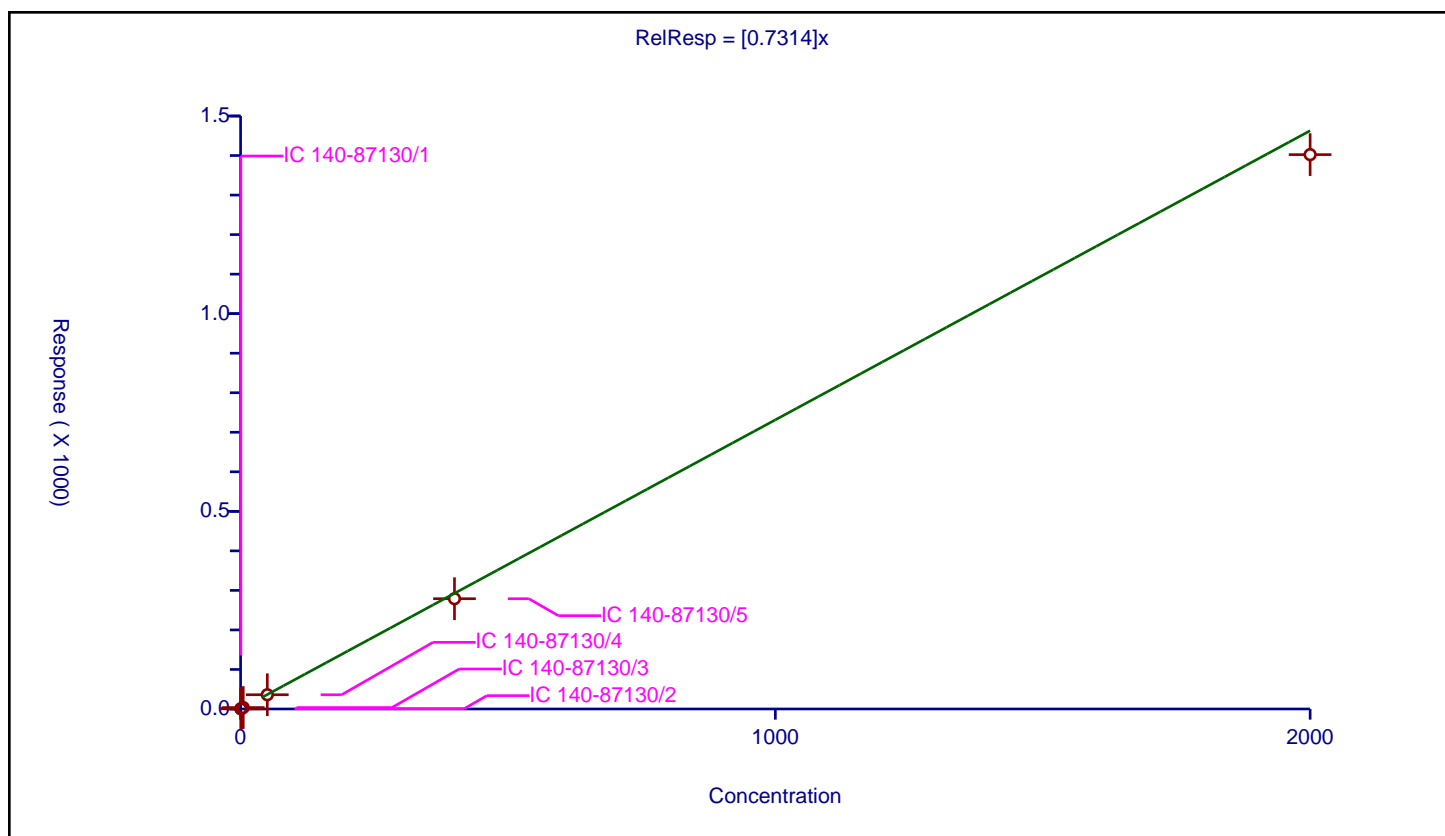
## Curve Coefficients

Intercept: 0  
Slope: 0.7314

## Error Coefficients

Relative Standard Deviation: 7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.421087	100.0	10352263.0	0.842173	Y
2	IC 140-87130/2	1.0	0.701907	100.0	9378026.0	0.701907	Y
3	IC 140-87130/3	5.0	3.620894	100.0	9411321.0	0.724179	Y
4	IC 140-87130/4	50.0	36.07884	100.0	9689577.0	0.721577	Y
5	IC 140-87130/5	400.0	278.986162	100.0	10335461.0	0.697465	Y
6	IC 140-87130/6	2000.0	1402.339911	100.0	11264701.0	0.70117	Y





# Calibration

/ PCB-47

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

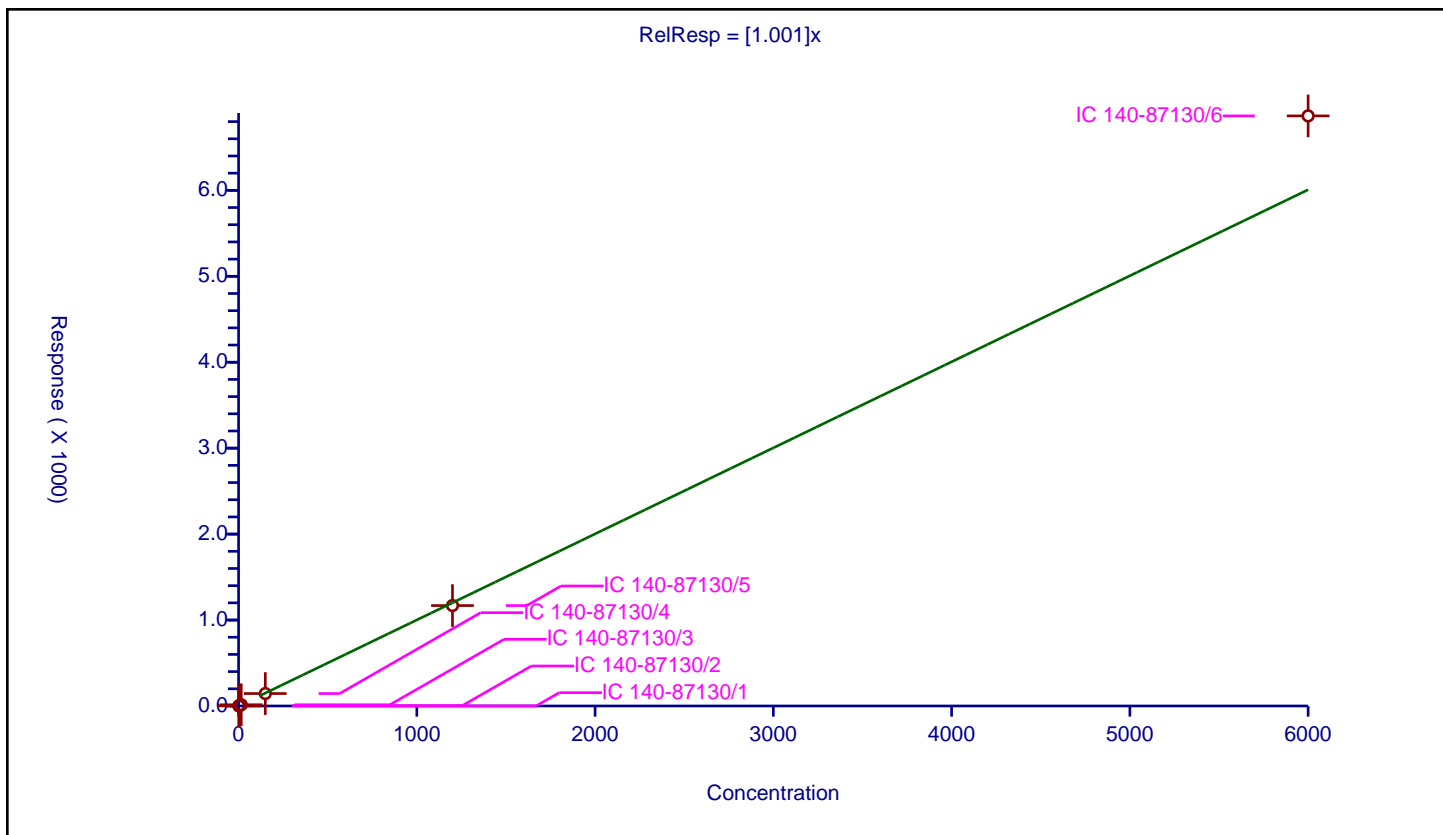
## Curve Coefficients

Intercept: 0  
 Slope: 1.001

## Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



# Calibration

/ PCB-48

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

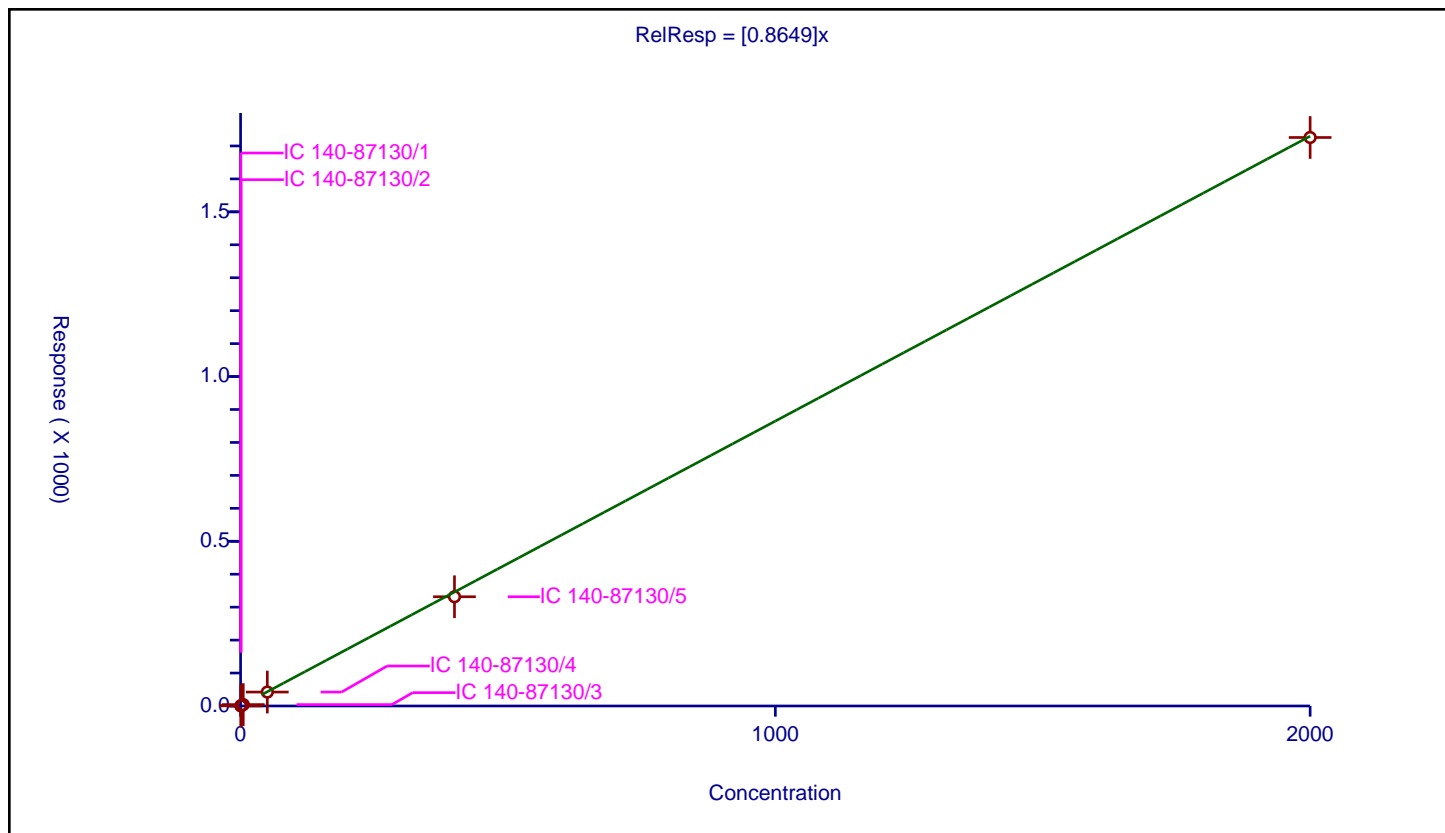
## Curve Coefficients

Intercept: 0  
 Slope: 0.8649

## Error Coefficients

Relative Standard Deviation: 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.451447	100.0	10352263.0	0.902894	Y
2	IC 140-87130/2	1.0	0.895178	100.0	9378026.0	0.895178	Y
3	IC 140-87130/3	5.0	4.269263	100.0	9411321.0	0.853853	Y
4	IC 140-87130/4	50.0	42.27265	100.0	9689577.0	0.845453	Y
5	IC 140-87130/5	400.0	331.59593	100.0	10335461.0	0.82899	Y
6	IC 140-87130/6	2000.0	1725.660699	100.0	11264701.0	0.86283	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

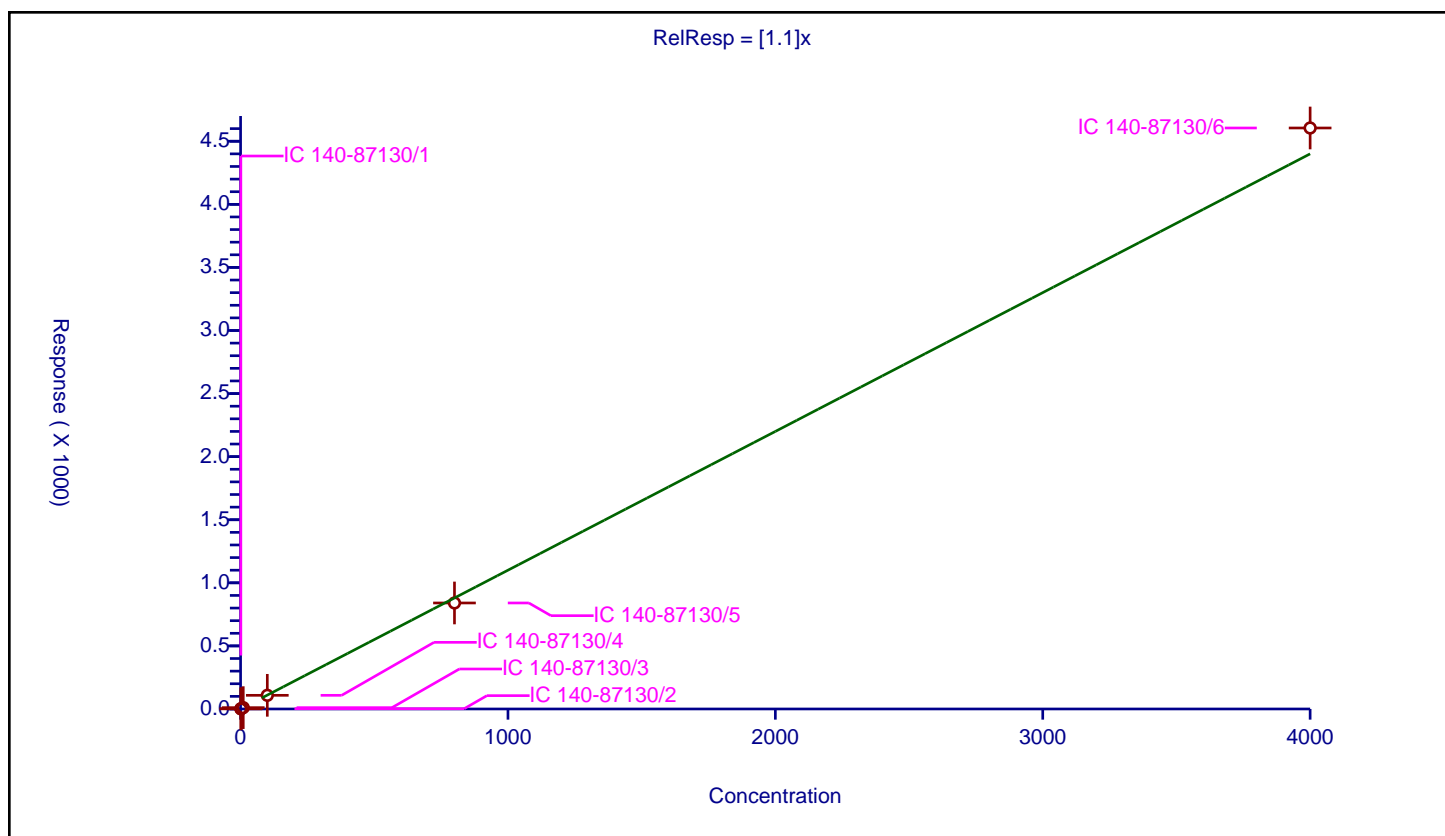
## Curve Coefficients

Intercept: 0  
Slope: 1.1

## Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.173569	100.0	10352263.0	1.173569	Y
2	IC 140-87130/2	2.0	2.152852	100.0	9378026.0	1.076426	Y
3	IC 140-87130/3	10.0	10.656952	100.0	9411321.0	1.065695	Y
4	IC 140-87130/4	100.0	108.268596	100.0	9689577.0	1.082686	Y
5	IC 140-87130/5	800.0	840.297438	100.0	10335461.0	1.050372	Y
6	IC 140-87130/6	4000.0	4605.085719	100.0	11264701.0	1.151271	Y



# Calibration

/ PCB-49/69

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

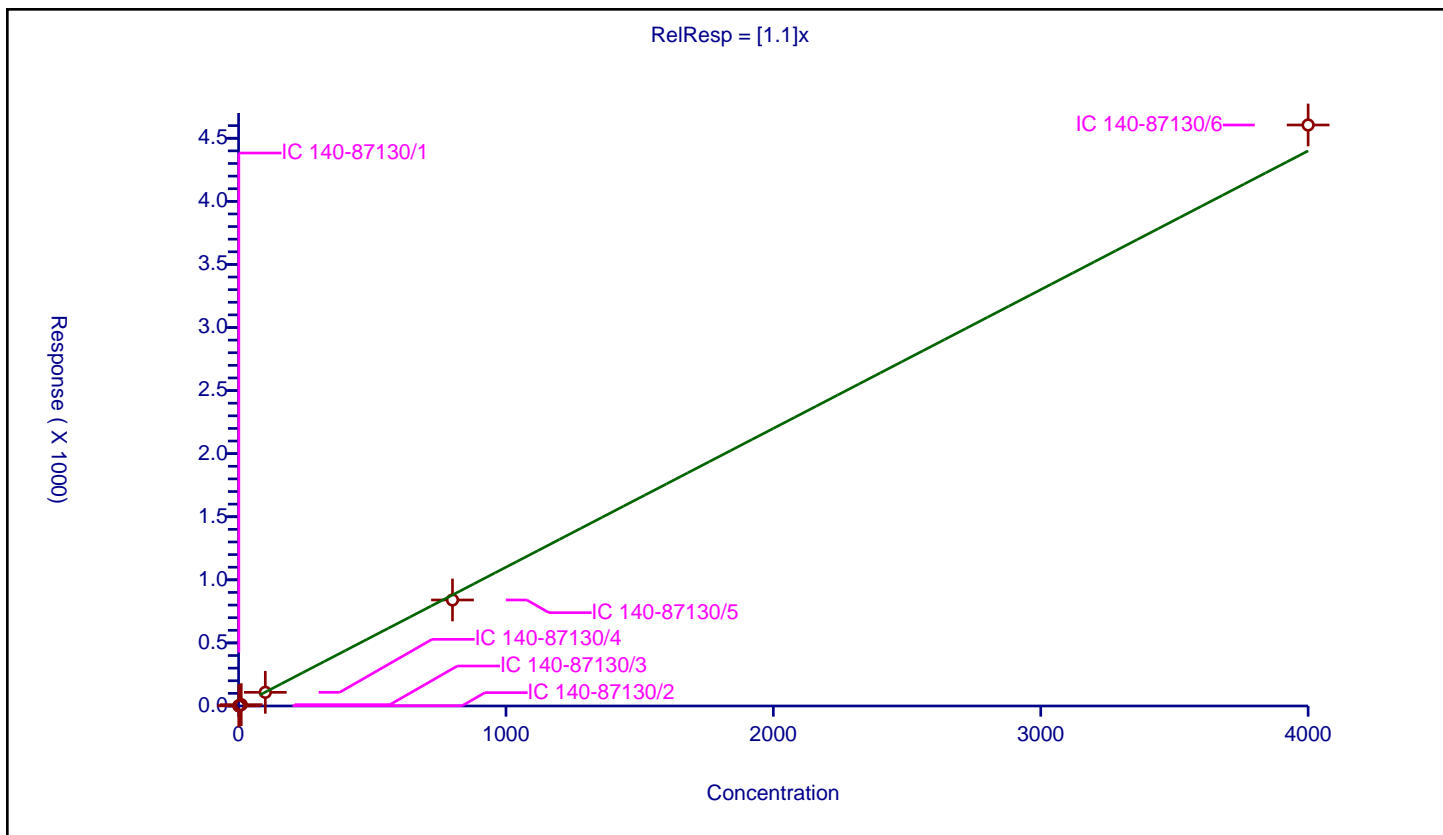
## Curve Coefficients

Intercept: 0  
Slope: 1.1

## Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.173569	100.0	10352263.0	1.173569	Y
2	IC 140-87130/2	2.0	2.152852	100.0	9378026.0	1.076426	Y
3	IC 140-87130/3	10.0	10.656952	100.0	9411321.0	1.065695	Y
4	IC 140-87130/4	100.0	108.268596	100.0	9689577.0	1.082686	Y
5	IC 140-87130/5	800.0	840.297438	100.0	10335461.0	1.050372	Y
6	IC 140-87130/6	4000.0	4605.085719	100.0	11264701.0	1.151271	Y



# Calibration

/ PCB-5

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

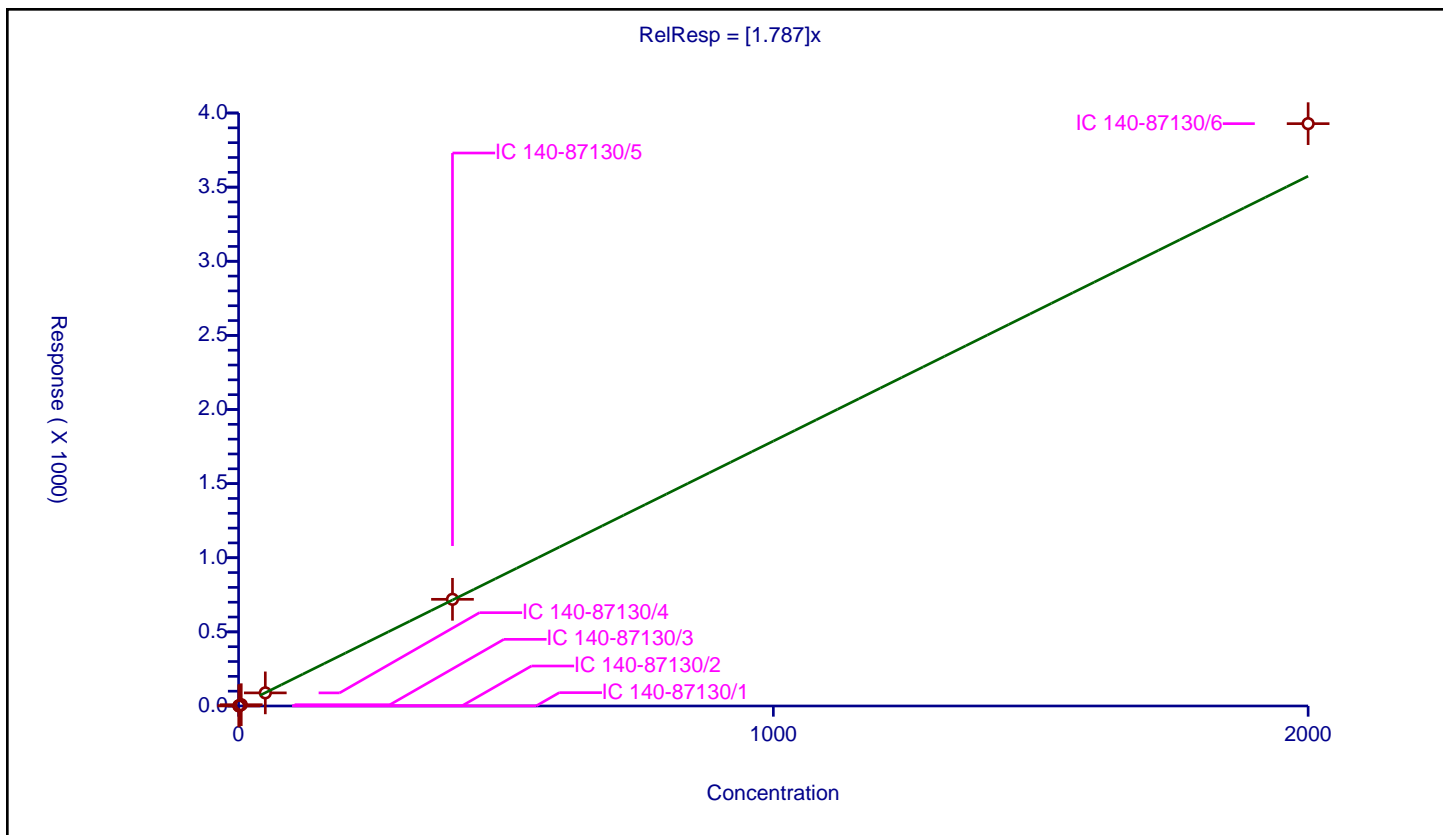
## Curve Coefficients

Intercept: 0  
Slope: 1.787

## Error Coefficients

Relative Standard Deviation: 5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.872535	100.0	5904521.0	1.74507	Y
2	IC 140-87130/2	1.0	1.710031	100.0	5442766.0	1.710031	Y
3	IC 140-87130/3	5.0	8.665964	100.0	5279032.0	1.733193	Y
4	IC 140-87130/4	50.0	88.499354	100.0	5474214.0	1.769987	Y
5	IC 140-87130/5	400.0	719.584445	100.0	5561618.0	1.798961	Y
6	IC 140-87130/6	2000.0	3928.252502	100.0	5672202.0	1.964126	Y



# Calibration

/ PCB-50

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

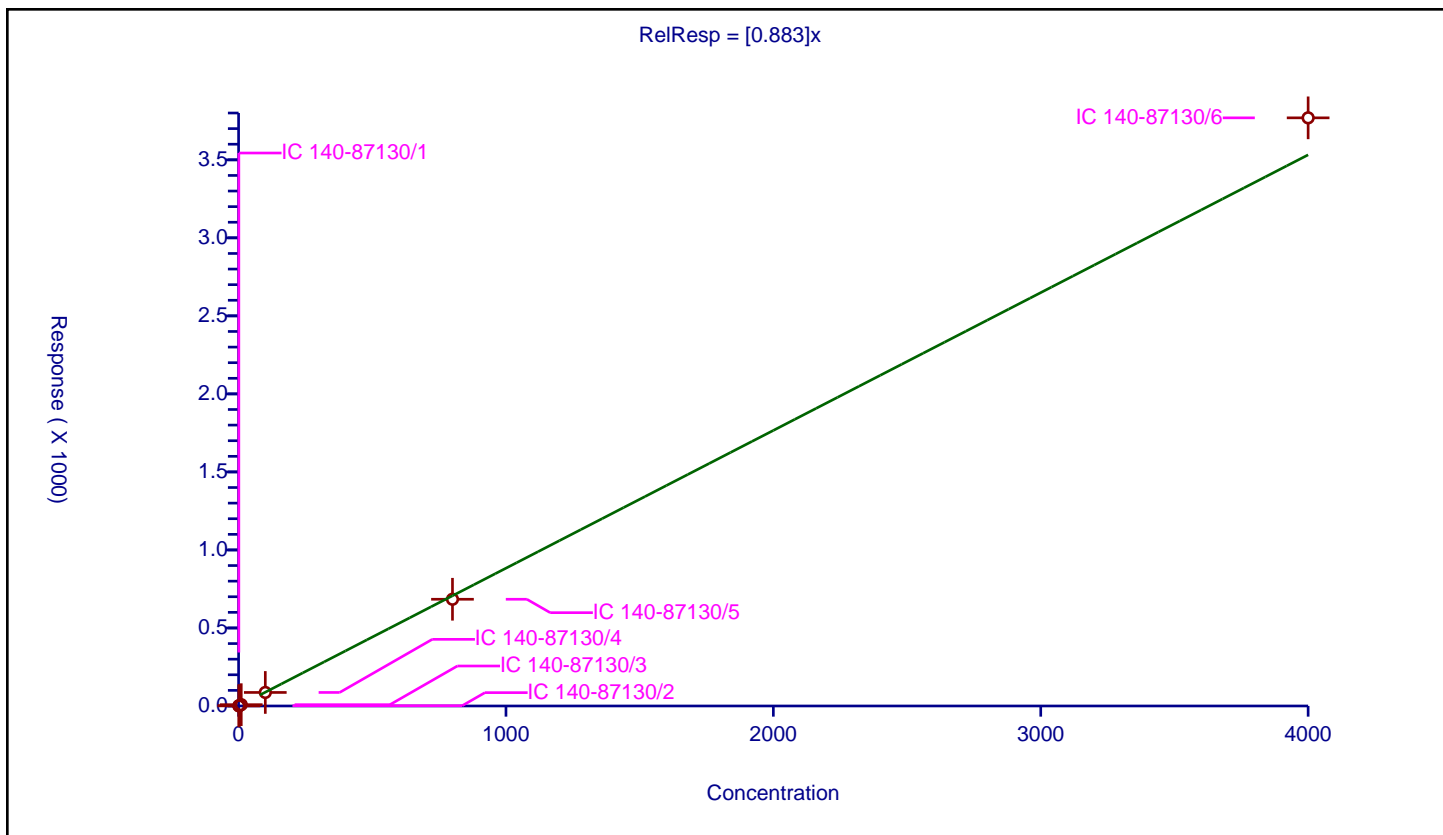
## Curve Coefficients

Intercept: 0  
Slope: 0.883

## Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.929536	100.0	10352263.0	0.929536	Y
2	IC 140-87130/2	2.0	1.711394	100.0	9378026.0	0.855697	Y
3	IC 140-87130/3	10.0	8.478693	100.0	9411321.0	0.847869	Y
4	IC 140-87130/4	100.0	86.753612	100.0	9689577.0	0.867536	Y
5	IC 140-87130/5	800.0	683.931554	100.0	10335461.0	0.854914	Y
6	IC 140-87130/6	4000.0	3769.047851	100.0	11264701.0	0.942262	Y



# Calibration

/ PCB-50/53

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

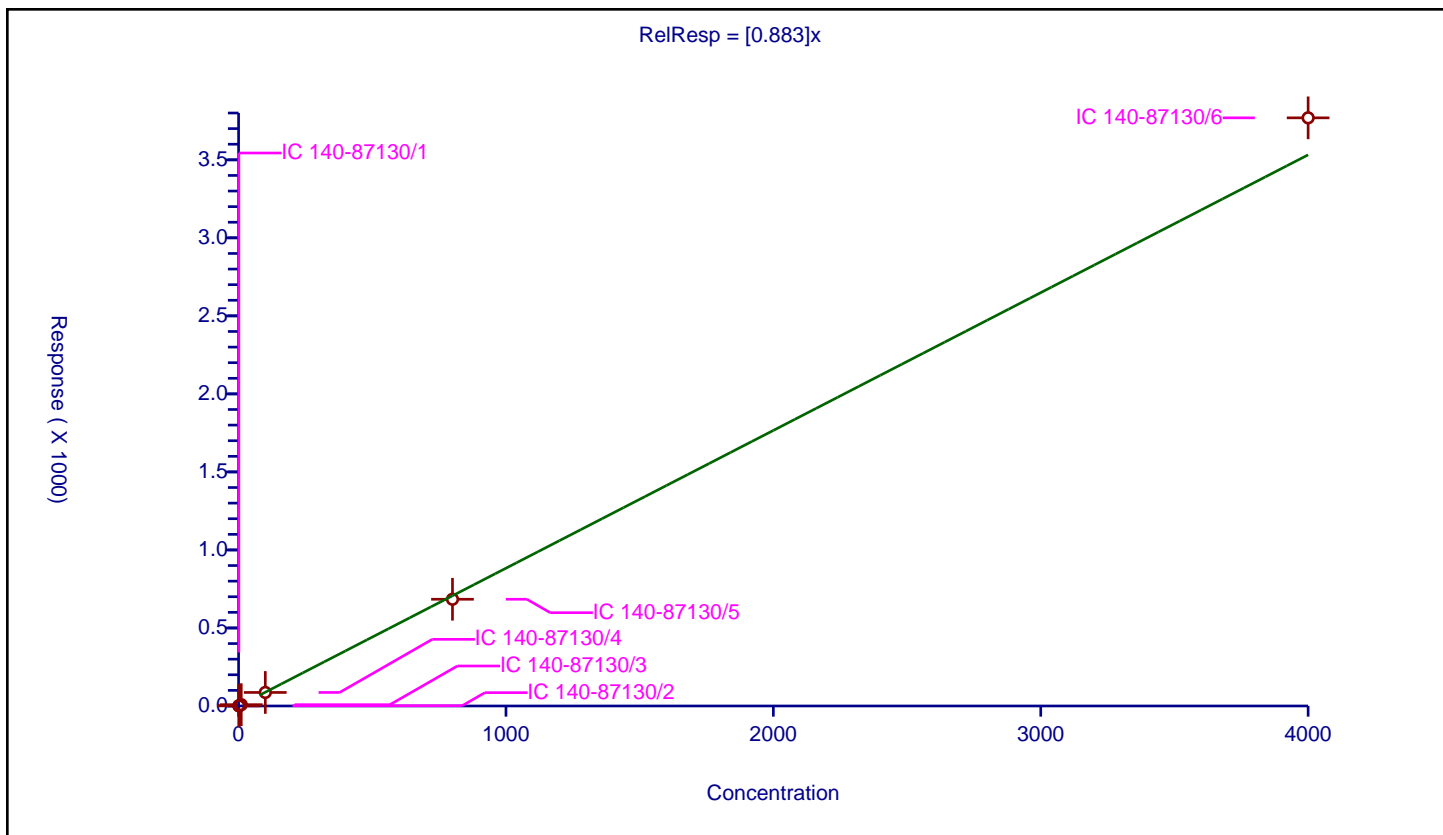
## Curve Coefficients

Intercept: 0  
 Slope: 0.883

## Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.929536	100.0	10352263.0	0.929536	Y
2	IC 140-87130/2	2.0	1.711394	100.0	9378026.0	0.855697	Y
3	IC 140-87130/3	10.0	8.478693	100.0	9411321.0	0.847869	Y
4	IC 140-87130/4	100.0	86.753612	100.0	9689577.0	0.867536	Y
5	IC 140-87130/5	800.0	683.931554	100.0	10335461.0	0.854914	Y
6	IC 140-87130/6	4000.0	3769.047851	100.0	11264701.0	0.942262	Y



# Calibration

/ PCB-51

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

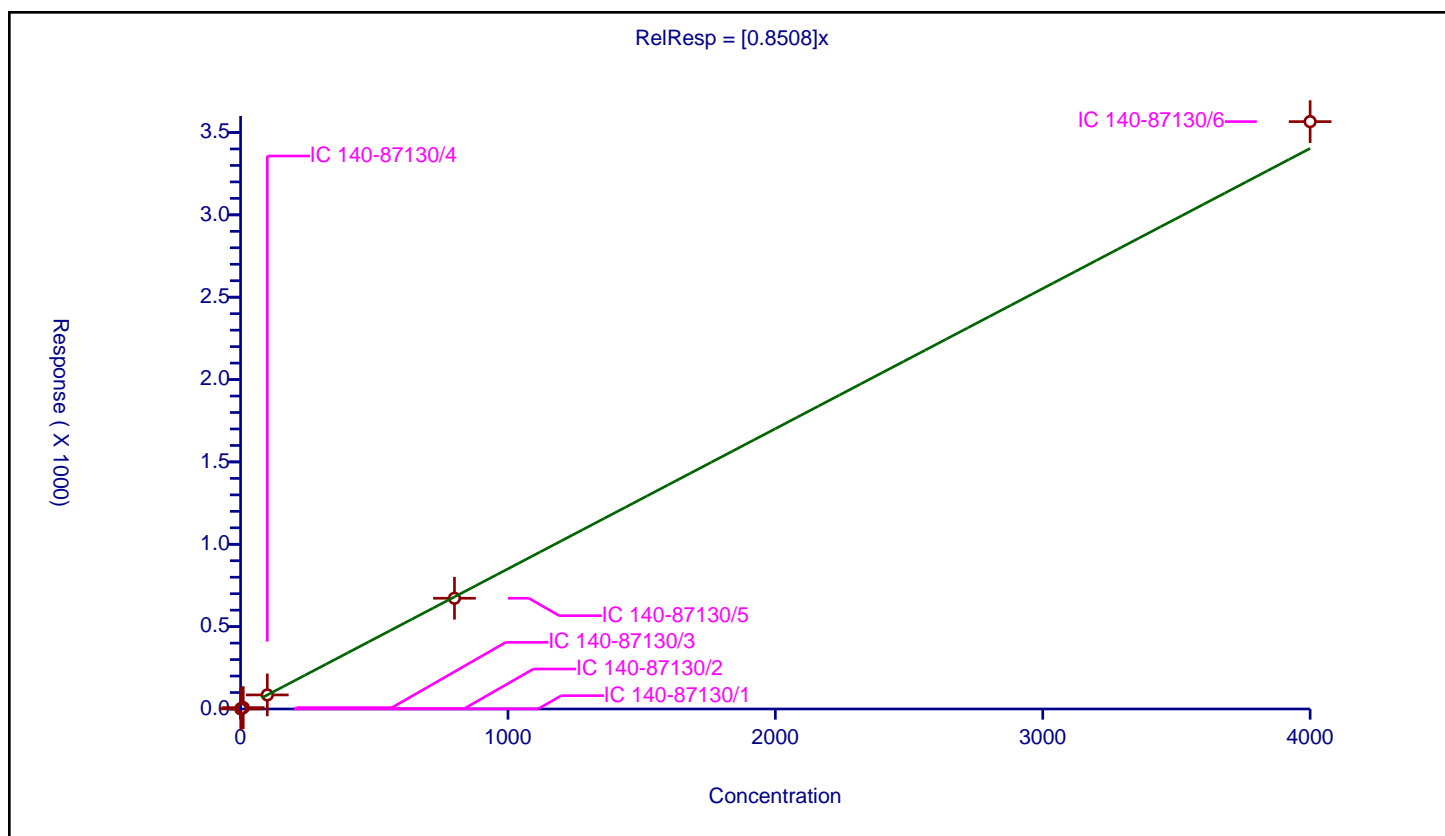
## Curve Coefficients

Intercept: 0  
Slope: 0.8508

## Error Coefficients

Relative Standard Deviation: 2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.83999	100.0	10352263.0	0.83999	Y
2	IC 140-87130/2	2.0	1.681751	100.0	9378026.0	0.840875	Y
3	IC 140-87130/3	10.0	8.378792	100.0	9411321.0	0.837879	Y
4	IC 140-87130/4	100.0	85.434194	100.0	9689577.0	0.854342	Y
5	IC 140-87130/5	800.0	672.30468	100.0	10335461.0	0.840381	Y
6	IC 140-87130/6	4000.0	3565.952545	100.0	11264701.0	0.891488	Y





# Calibration

/ PCB-52

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

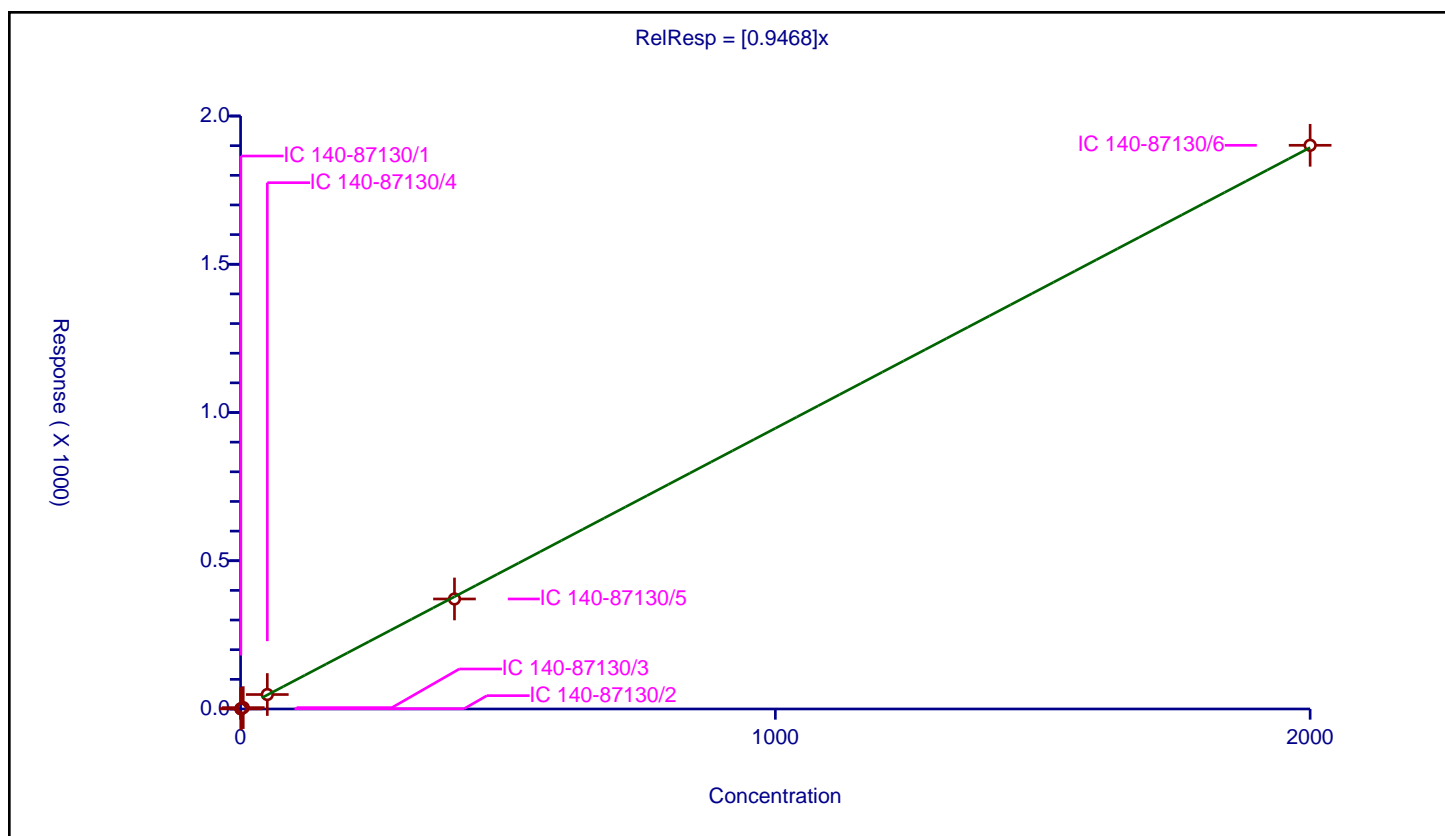
## Curve Coefficients

Intercept: 0  
Slope: 0.9468

## Error Coefficients

Relative Standard Deviation: 1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.47861	100.0	10352263.0	0.957221	Y
2	IC 140-87130/2	1.0	0.935517	100.0	9378026.0	0.935517	Y
3	IC 140-87130/3	5.0	4.673403	100.0	9411321.0	0.934681	Y
4	IC 140-87130/4	50.0	48.750436	100.0	9689577.0	0.975009	Y
5	IC 140-87130/5	400.0	371.091652	100.0	10335461.0	0.927729	Y
6	IC 140-87130/6	2000.0	1901.220503	100.0	11264701.0	0.95061	Y



# Calibration

/ PCB-53

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

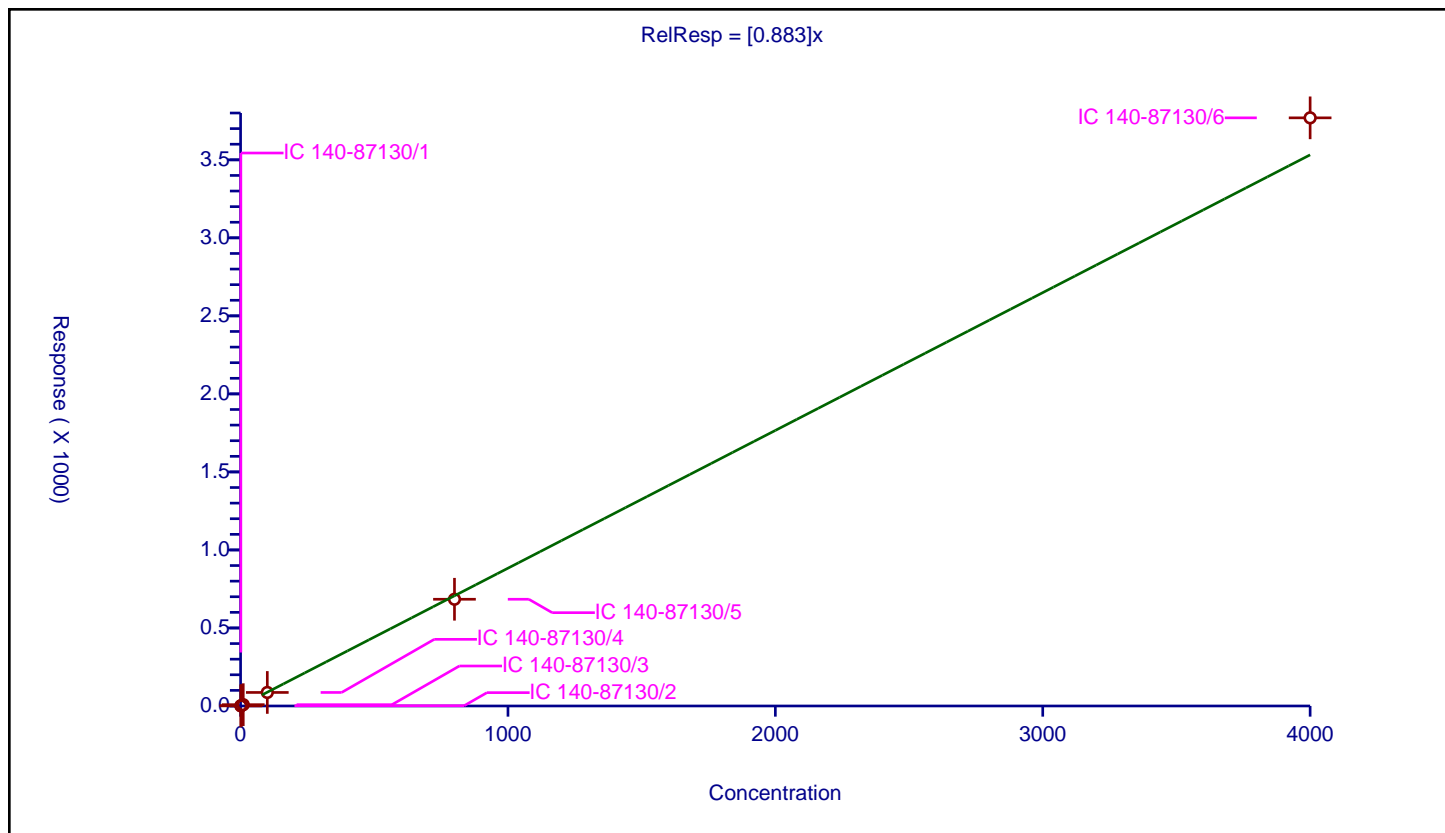
## Curve Coefficients

Intercept: 0  
Slope: 0.883

## Error Coefficients

Relative Standard Deviation: 4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.929536	100.0	10352263.0	0.929536	Y
2	IC 140-87130/2	2.0	1.711394	100.0	9378026.0	0.855697	Y
3	IC 140-87130/3	10.0	8.478693	100.0	9411321.0	0.847869	Y
4	IC 140-87130/4	100.0	86.753612	100.0	9689577.0	0.867536	Y
5	IC 140-87130/5	800.0	683.931554	100.0	10335461.0	0.854914	Y
6	IC 140-87130/6	4000.0	3769.047851	100.0	11264701.0	0.942262	Y



# Calibration

/ PCB-54

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

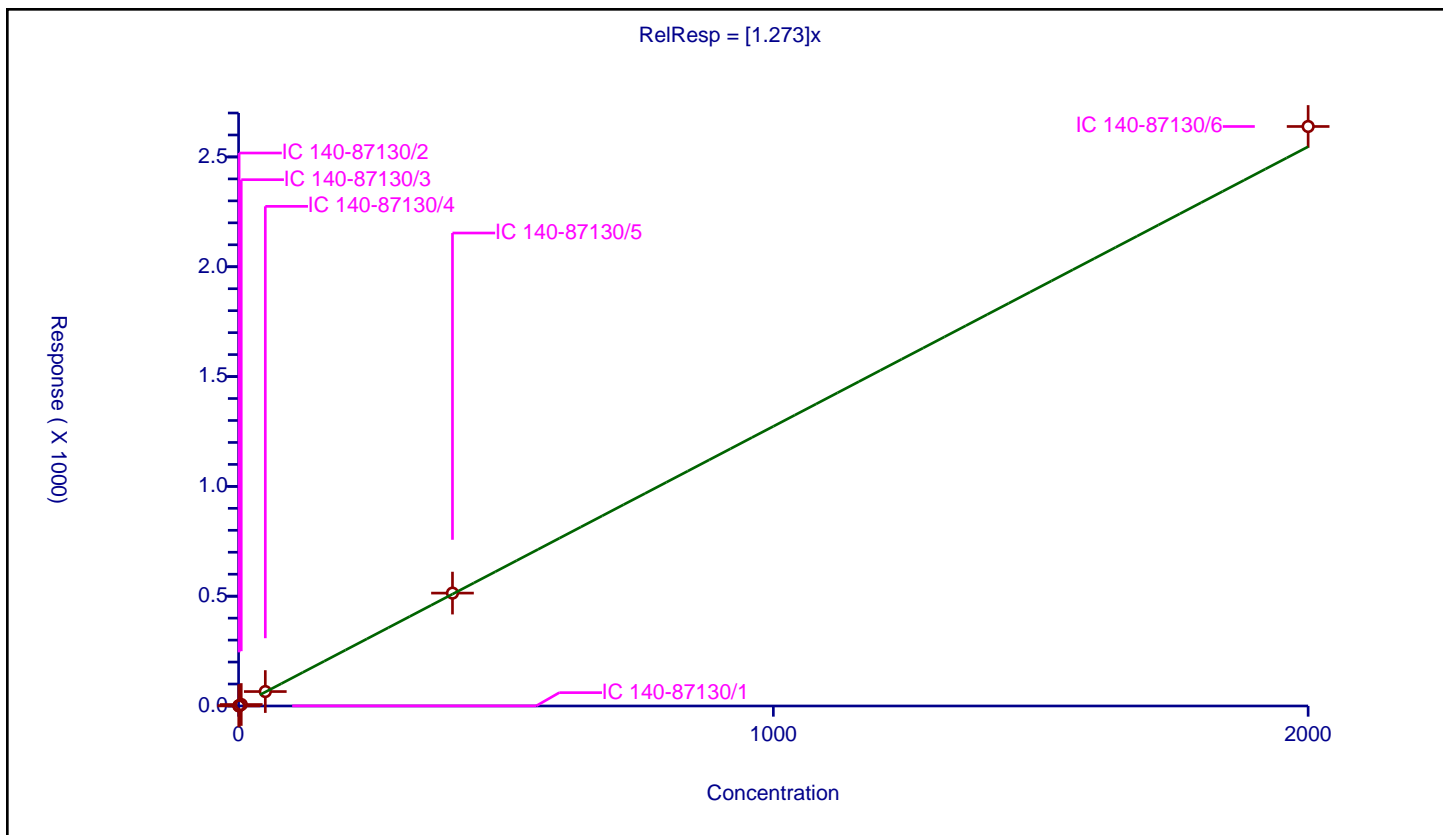
## Curve Coefficients

Intercept: 0  
 Slope: 1.273

## Error Coefficients

Relative Standard Deviation: 8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.527395	100.0	3394991.0	1.054789	Y
2	IC 140-87130/2	1.0	1.324963	100.0	3010951.0	1.324963	Y
3	IC 140-87130/3	5.0	6.698994	100.0	2803421.0	1.339799	Y
4	IC 140-87130/4	50.0	65.800259	100.0	3125781.0	1.316005	Y
5	IC 140-87130/5	400.0	513.98725	100.0	3162909.0	1.284968	Y
6	IC 140-87130/6	2000.0	2638.710193	100.0	3193810.0	1.319355	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

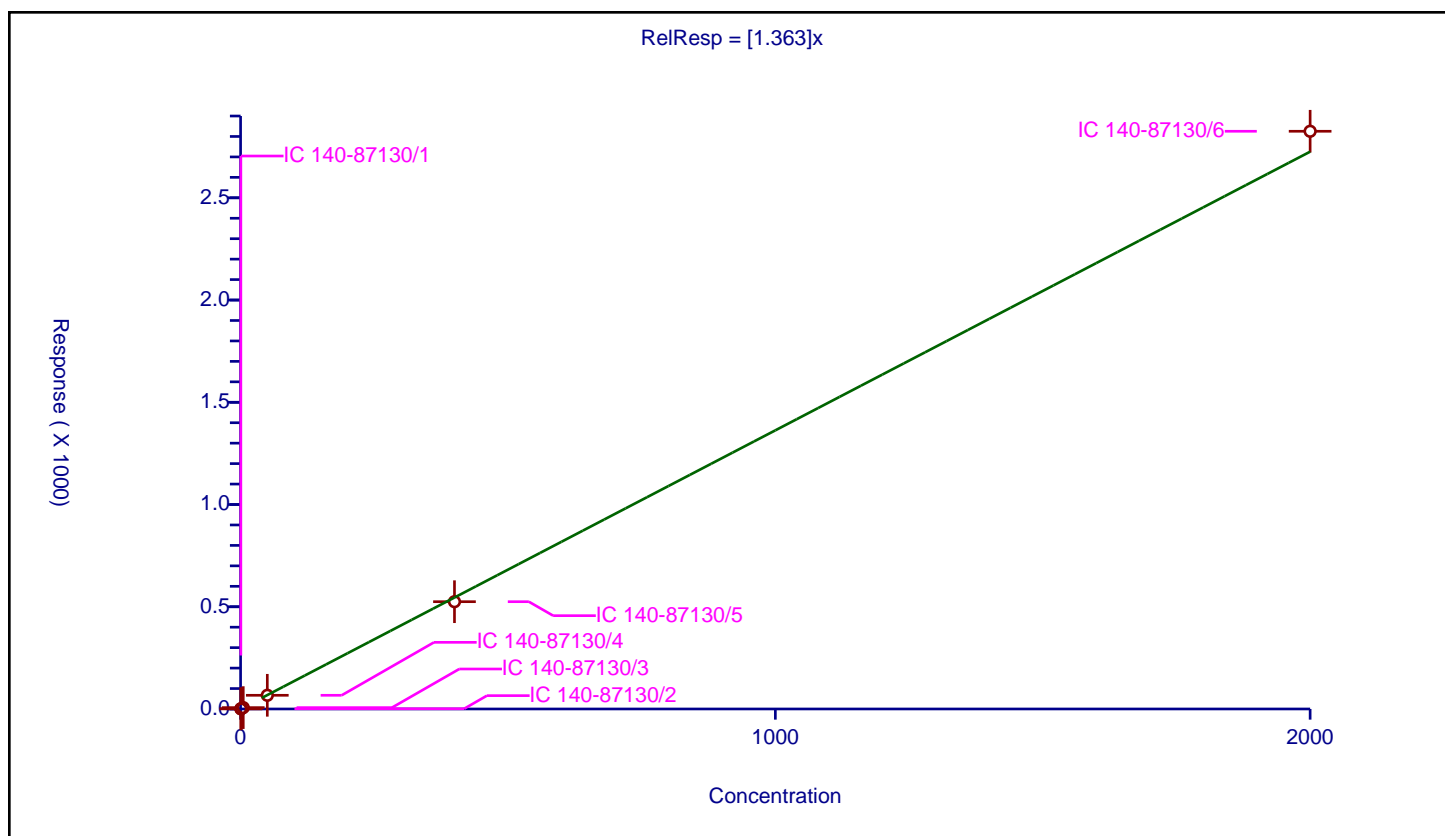
## Curve Coefficients

Intercept: 0  
Slope: 1.363

## Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.7503	100.0	10352263.0	1.500599	Y
2	IC 140-87130/2	1.0	1.274383	100.0	9378026.0	1.274383	Y
3	IC 140-87130/3	5.0	6.694958	100.0	9411321.0	1.338992	Y
4	IC 140-87130/4	50.0	66.912374	100.0	9689577.0	1.338247	Y
5	IC 140-87130/5	400.0	524.701162	100.0	10335461.0	1.311753	Y
6	IC 140-87130/6	2000.0	2825.418127	100.0	11264701.0	1.412709	Y



## Calibration

/ PCB-56

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

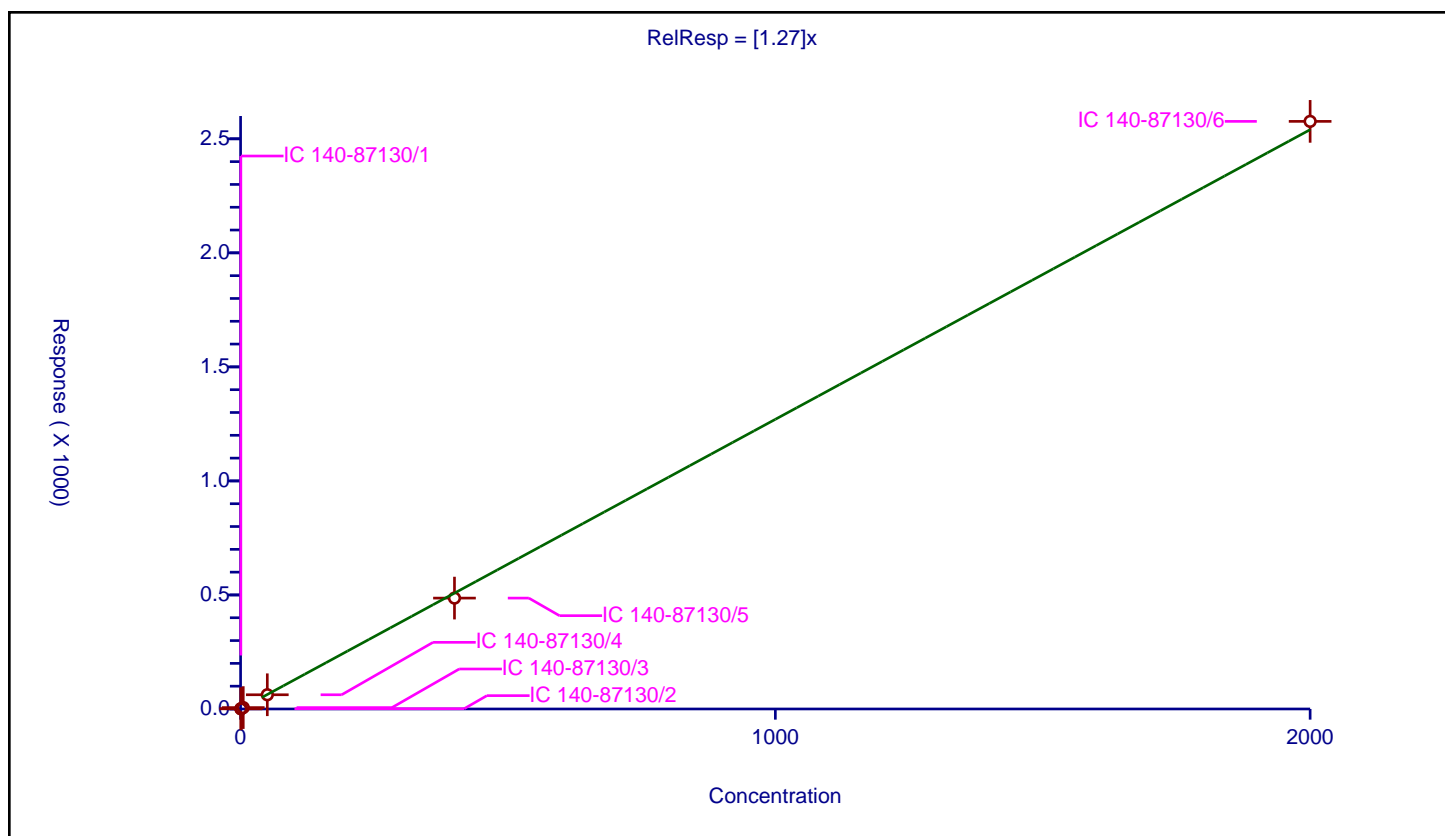
## Curve Coefficients

Intercept: 0  
Slope: 1.27

## Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.721185	100.0	10352263.0	1.442371	Y
2	IC 140-87130/2	1.0	1.200711	100.0	9378026.0	1.200711	Y
3	IC 140-87130/3	5.0	6.131732	100.0	9411321.0	1.226346	Y
4	IC 140-87130/4	50.0	62.350988	100.0	9689577.0	1.24702	Y
5	IC 140-87130/5	400.0	486.206024	100.0	10335461.0	1.215515	Y
6	IC 140-87130/6	2000.0	2576.543745	100.0	11264701.0	1.288272	Y



# Calibration

/ PCB-57

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

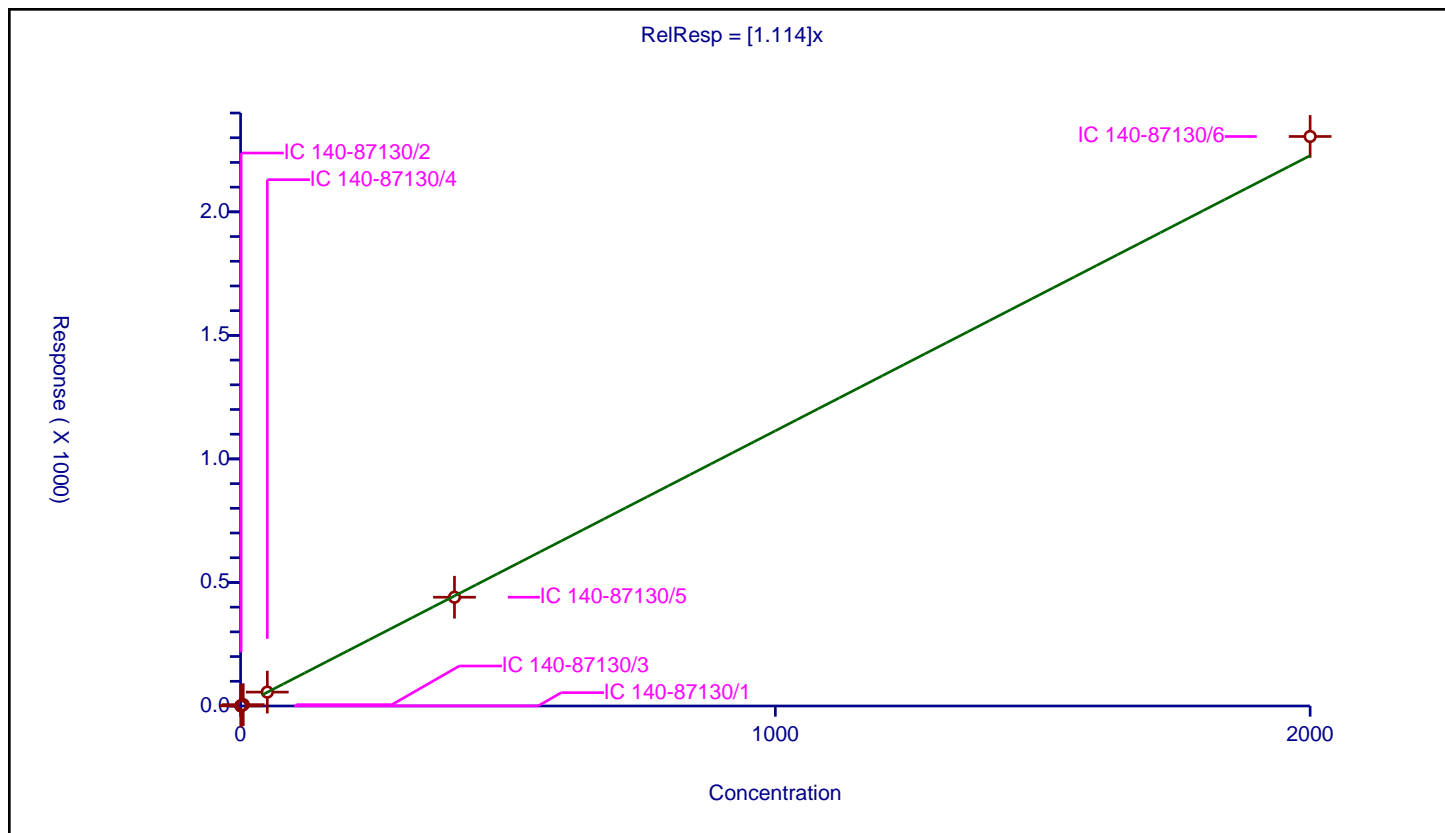
## Curve Coefficients

Intercept: 0  
Slope: 1.114

## Error Coefficients

Relative Standard Deviation: 3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.530493	100.0	10352263.0	1.060985	Y
2	IC 140-87130/2	1.0	1.149901	100.0	9378026.0	1.149901	Y
3	IC 140-87130/3	5.0	5.475012	100.0	9411321.0	1.095002	Y
4	IC 140-87130/4	50.0	56.200317	100.0	9689577.0	1.124006	Y
5	IC 140-87130/5	400.0	440.170961	100.0	10335461.0	1.100427	Y
6	IC 140-87130/6	2000.0	2305.01091	100.0	11264701.0	1.152505	Y



# Calibration

/ PCB-58

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

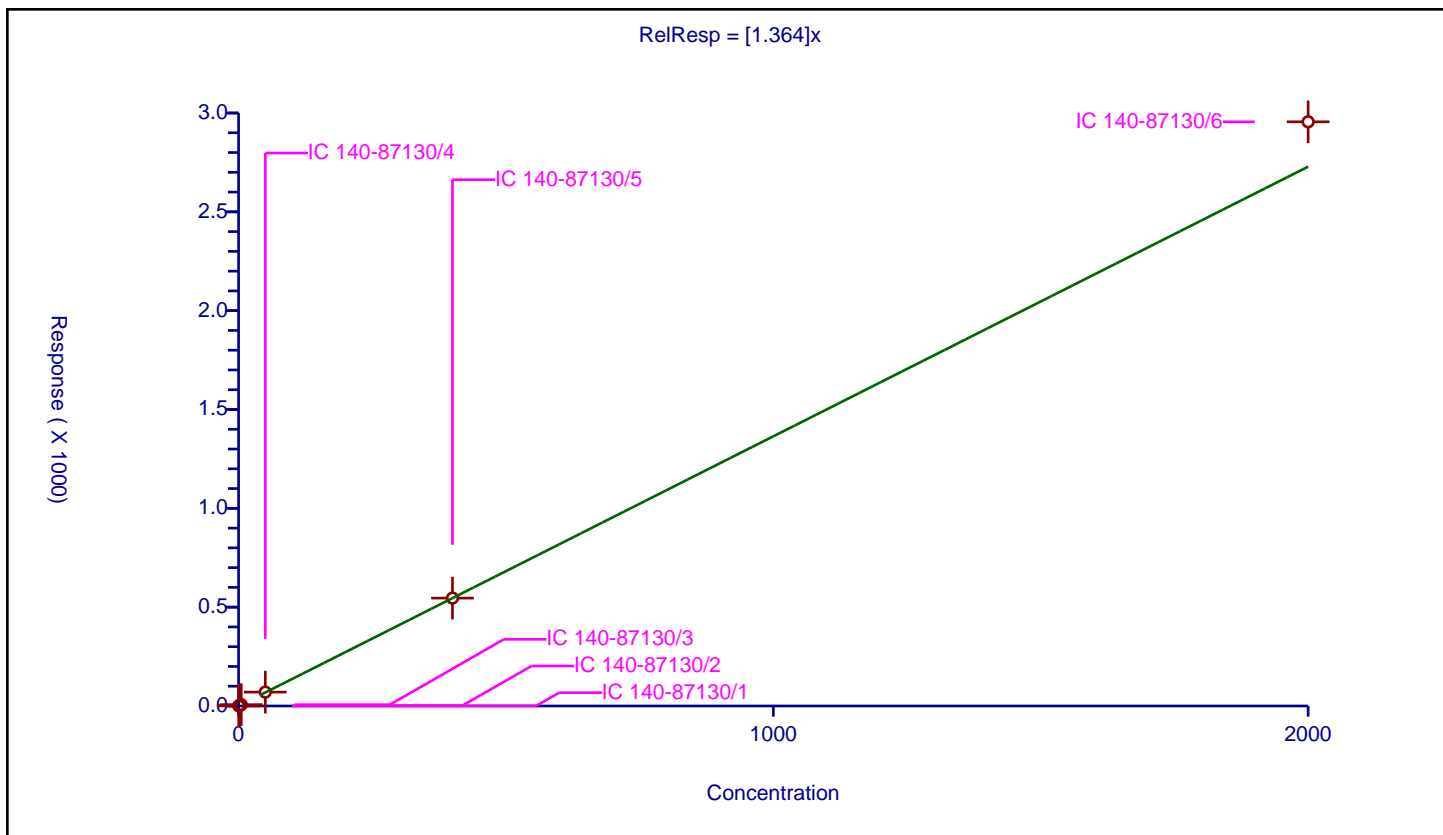
## Curve Coefficients

Intercept: 0  
Slope: 1.364

## Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.662531	100.0	10352263.0	1.325063	Y
2	IC 140-87130/2	1.0	1.255083	100.0	9378026.0	1.255083	Y
3	IC 140-87130/3	5.0	6.788739	100.0	9411321.0	1.357748	Y
4	IC 140-87130/4	50.0	70.262778	100.0	9689577.0	1.405256	Y
5	IC 140-87130/5	400.0	545.857509	100.0	10335461.0	1.364644	Y
6	IC 140-87130/6	2000.0	2955.489365	100.0	11264701.0	1.477745	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

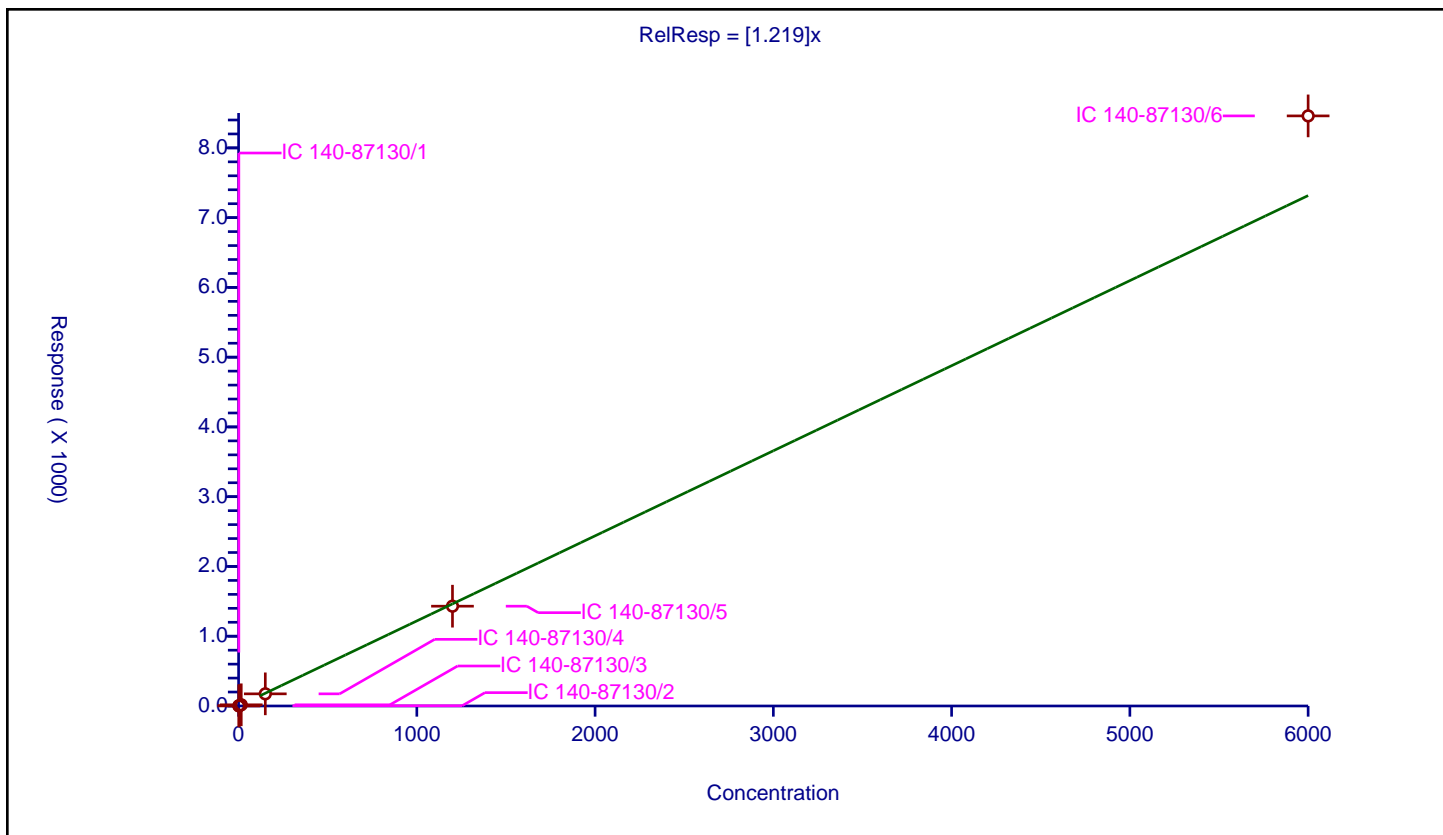
## Curve Coefficients

Intercept: 0  
Slope: 1.219

## Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y





# Calibration

/ PCB-59/62/75

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

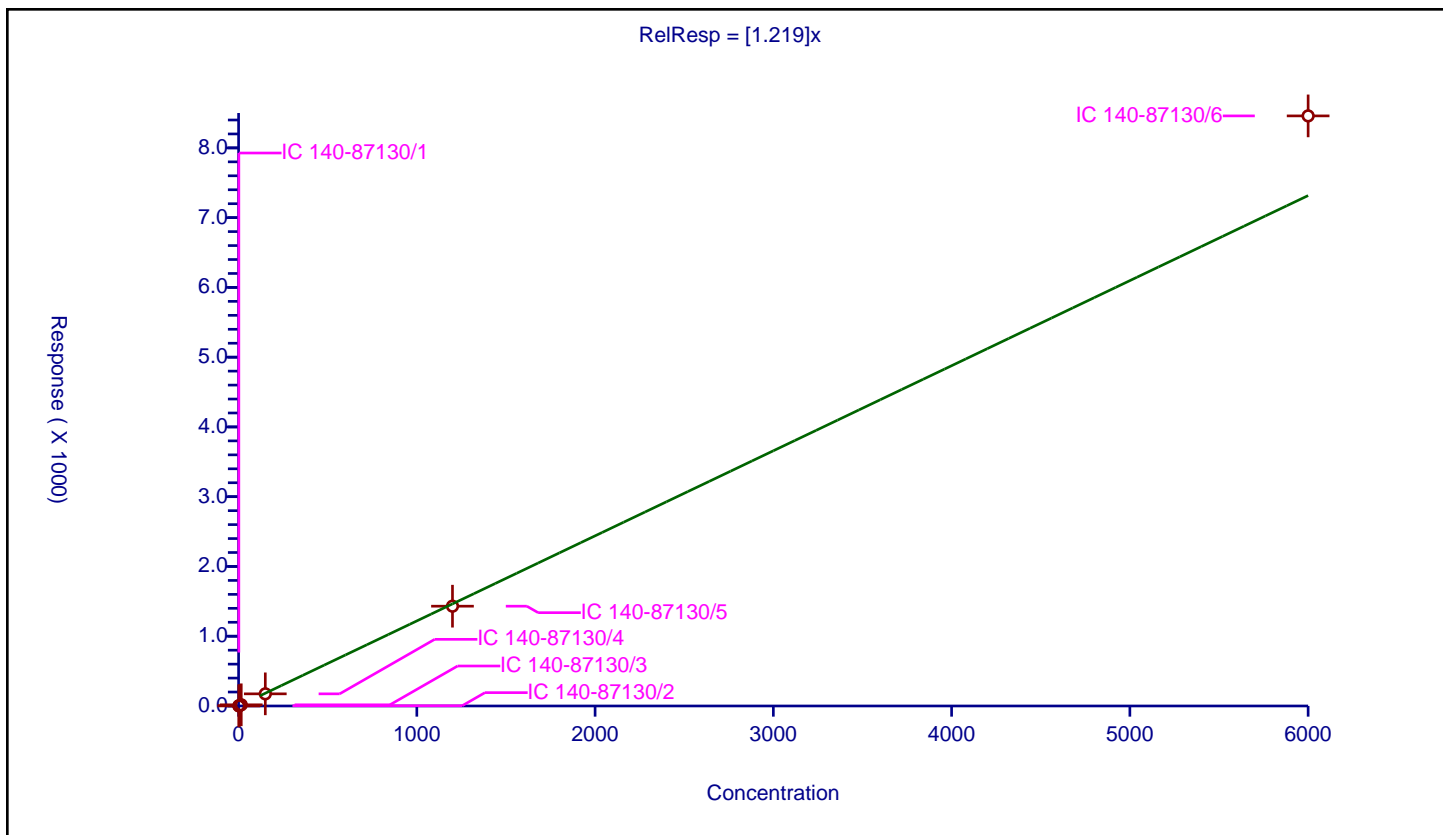
## Curve Coefficients

Intercept: 0  
Slope: 1.219

## Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



# Calibration

/ PCB-6

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

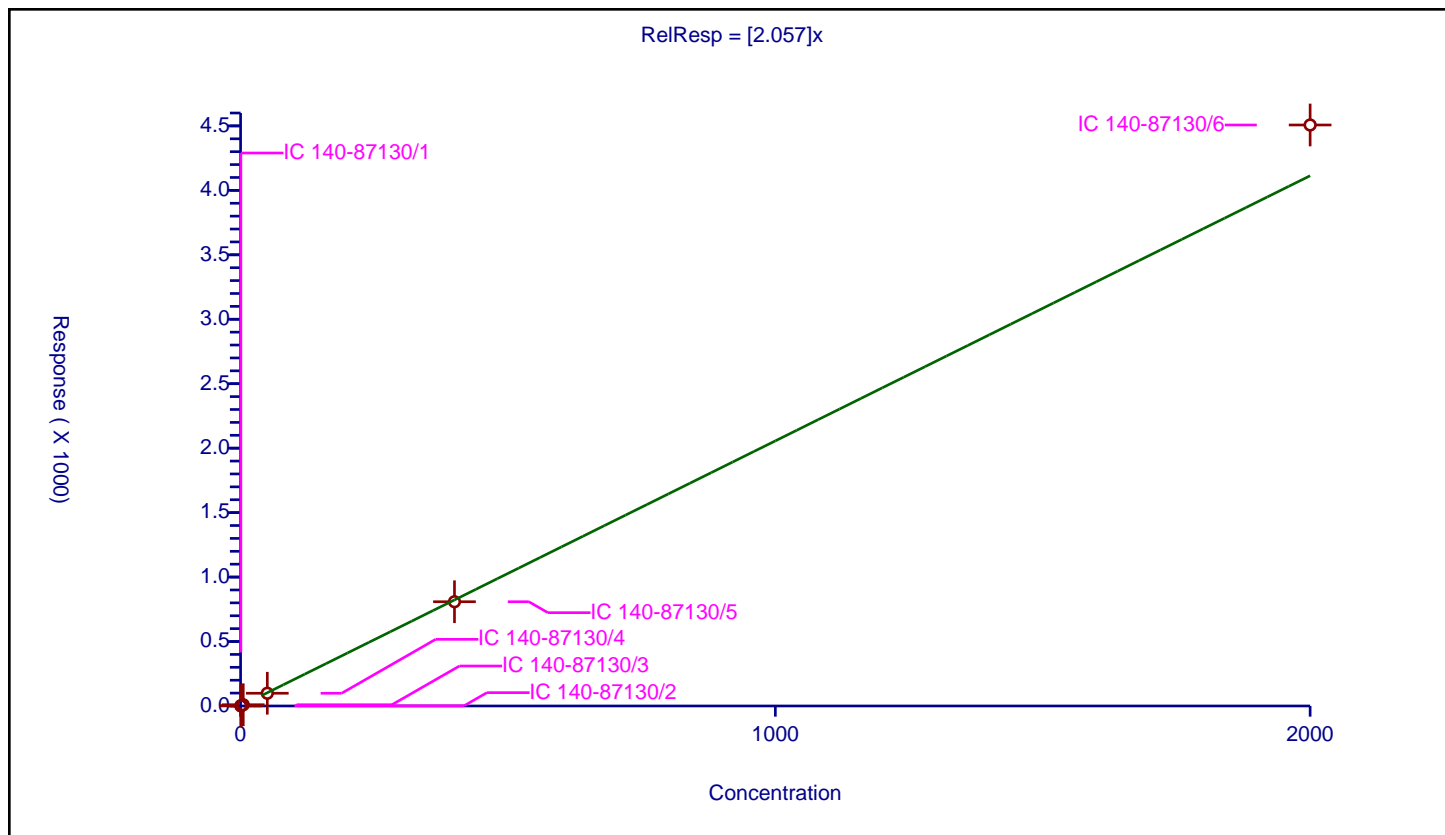
## Curve Coefficients

Intercept: 0  
Slope: 2.057

## Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	1.064168	100.0	5904521.0	2.128335	Y
2	IC 140-87130/2	1.0	1.998451	100.0	5442766.0	1.998451	Y
3	IC 140-87130/3	5.0	9.80909	100.0	5279032.0	1.961818	Y
4	IC 140-87130/4	50.0	98.79232	100.0	5474214.0	1.975846	Y
5	IC 140-87130/5	400.0	808.750943	100.0	5561618.0	2.021877	Y
6	IC 140-87130/6	2000.0	4507.022934	100.0	5672202.0	2.253511	Y



# Calibration

/ PCB-60

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

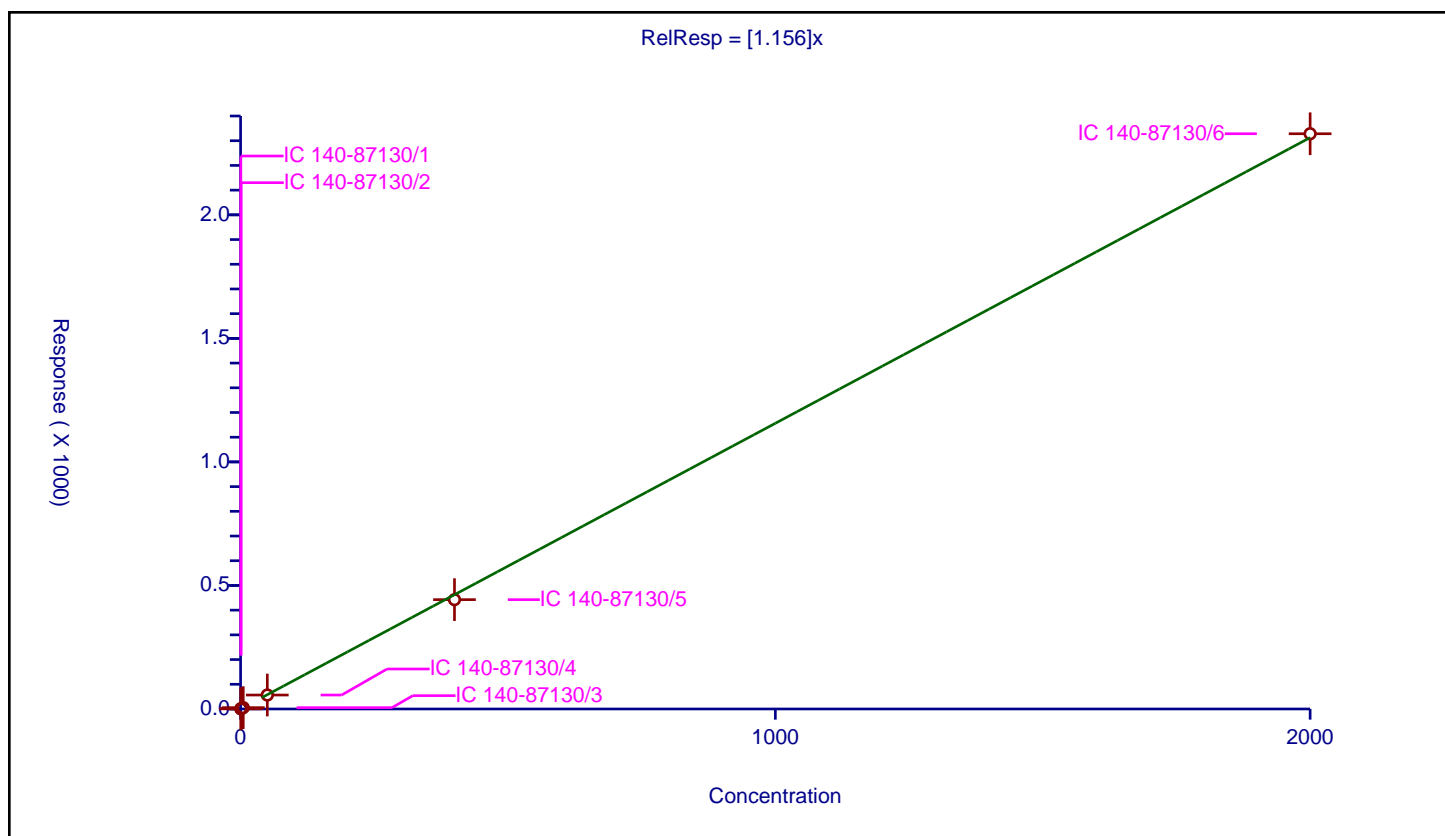
## Curve Coefficients

Intercept: 0  
Slope: 1.156

## Error Coefficients

Relative Standard Deviation: 6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.584143	100.0	10352263.0	1.168286	Y
2	IC 140-87130/2	1.0	1.283522	100.0	9378026.0	1.283522	Y
3	IC 140-87130/3	5.0	5.427495	100.0	9411321.0	1.085499	Y
4	IC 140-87130/4	50.0	56.506904	100.0	9689577.0	1.130138	Y
5	IC 140-87130/5	400.0	442.551619	100.0	10335461.0	1.106379	Y
6	IC 140-87130/6	2000.0	2328.177366	100.0	11264701.0	1.164089	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

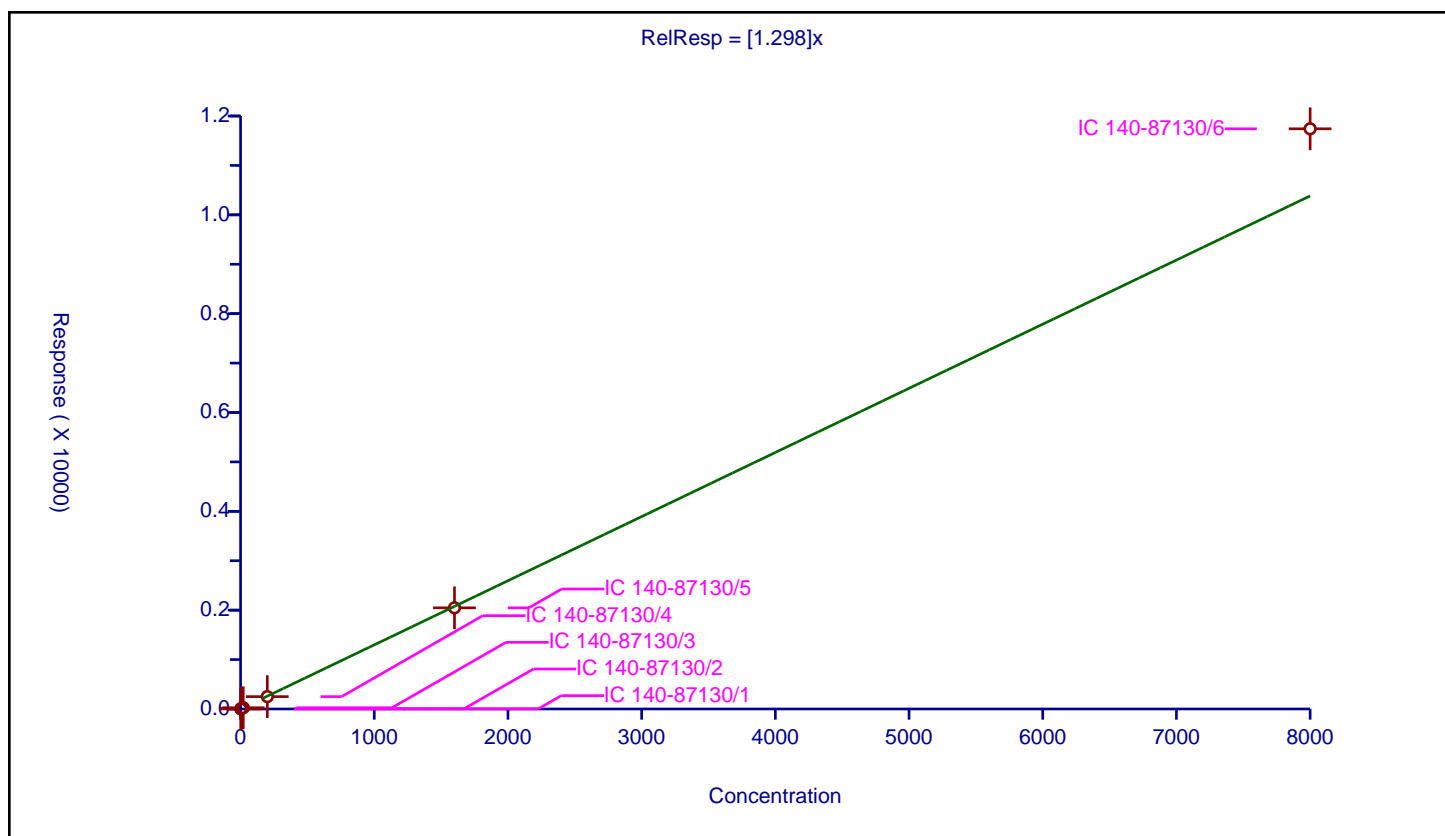
## Curve Coefficients

Intercept: 0  
Slope: 1.298

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



# Calibration

/ PCB-61/70/74/76

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

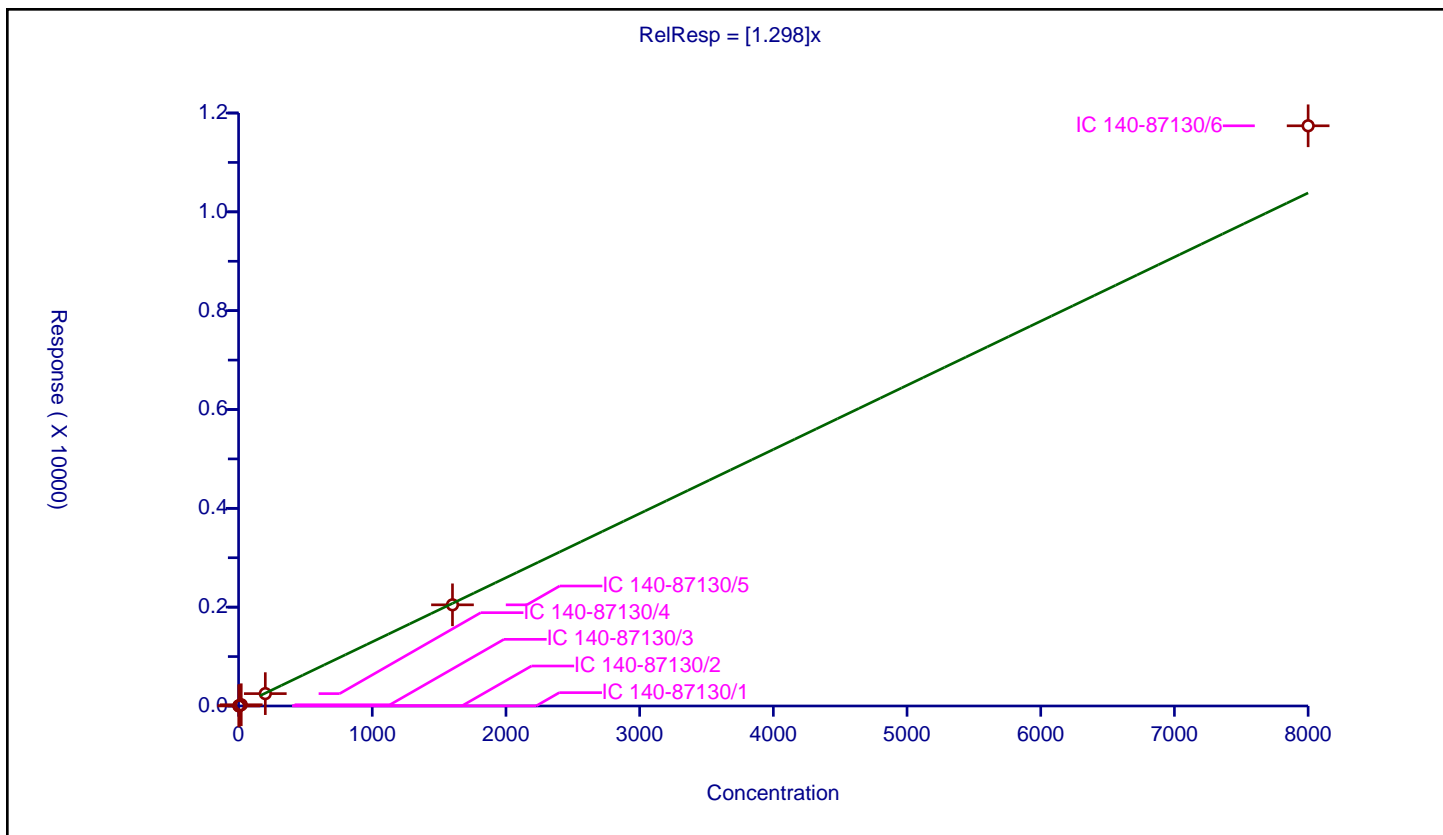
## Curve Coefficients

Intercept: 0  
 Slope: 1.298

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



# Calibration

/ PCB-62

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

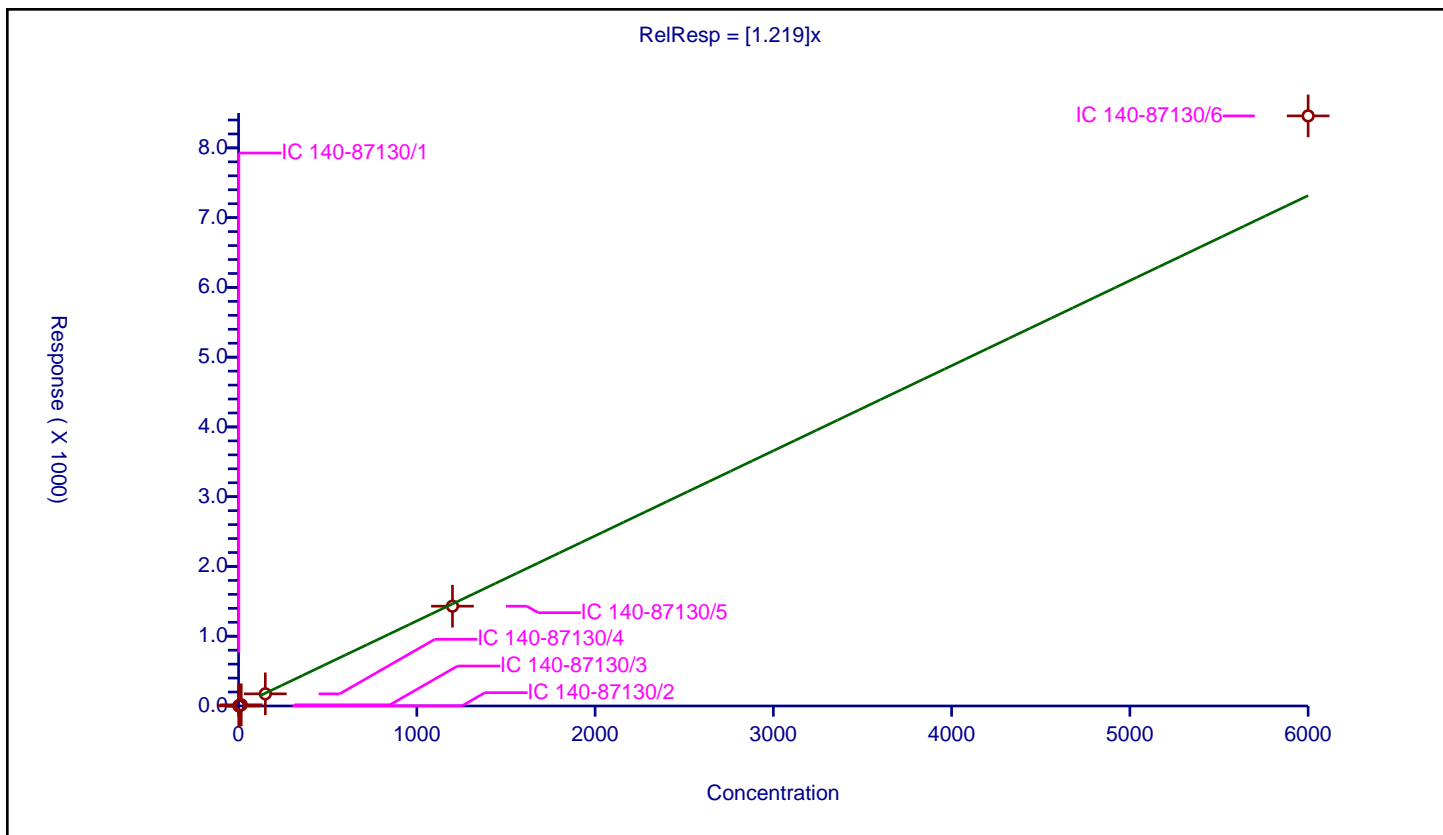
## Curve Coefficients

Intercept: 0  
Slope: 1.219

## Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



# Calibration

/ PCB-63

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

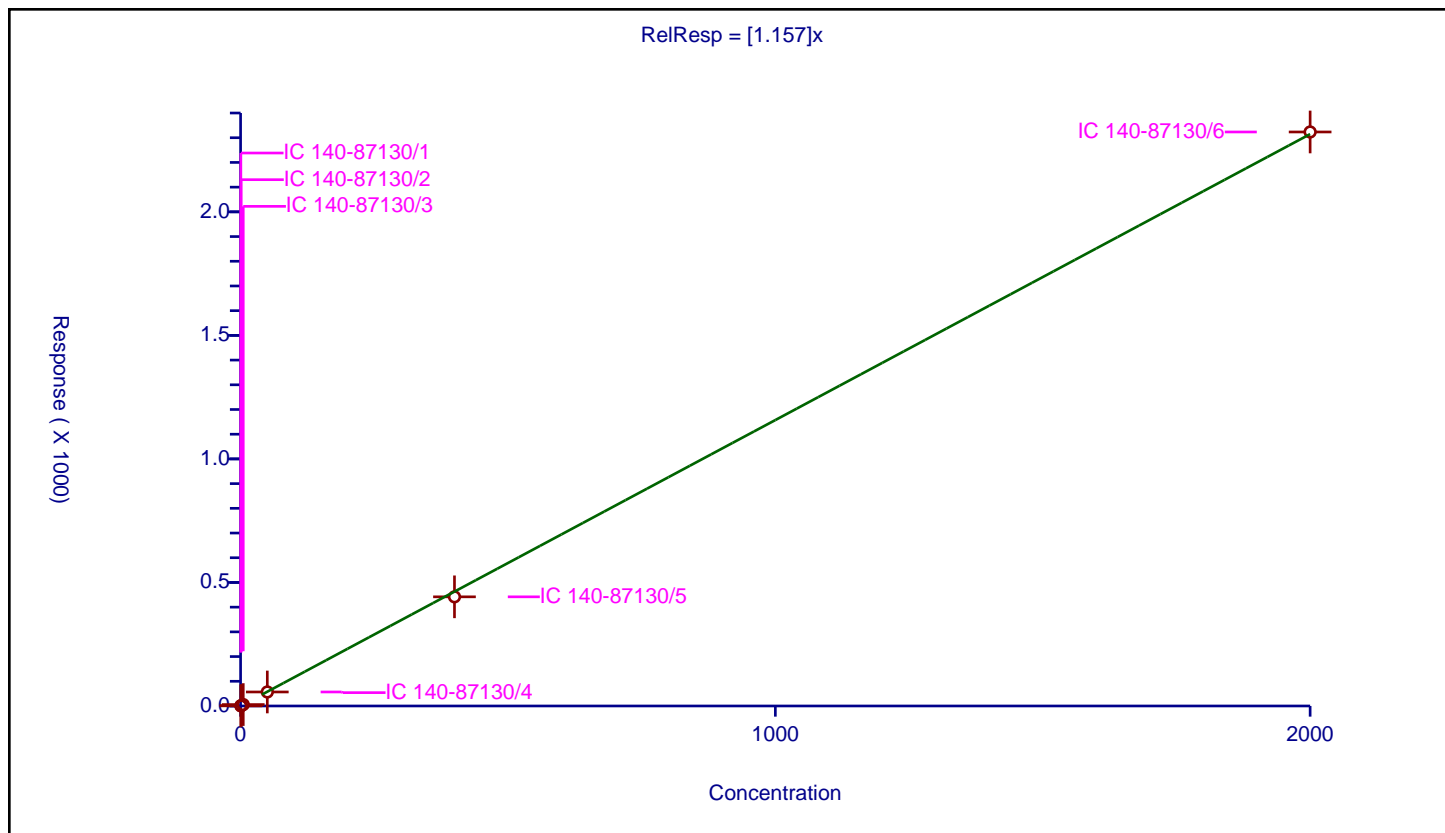
## Curve Coefficients

Intercept: 0  
Slope: 1.157

## Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.586538	100.0	10352263.0	1.173077	Y
2	IC 140-87130/2	1.0	1.21211	100.0	9378026.0	1.21211	Y
3	IC 140-87130/3	5.0	5.788412	100.0	9411321.0	1.157682	Y
4	IC 140-87130/4	50.0	56.746657	100.0	9689577.0	1.134933	Y
5	IC 140-87130/5	400.0	441.810288	100.0	10335461.0	1.104526	Y
6	IC 140-87130/6	2000.0	2323.277031	100.0	11264701.0	1.161639	Y



# Calibration

/ PCB-64

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

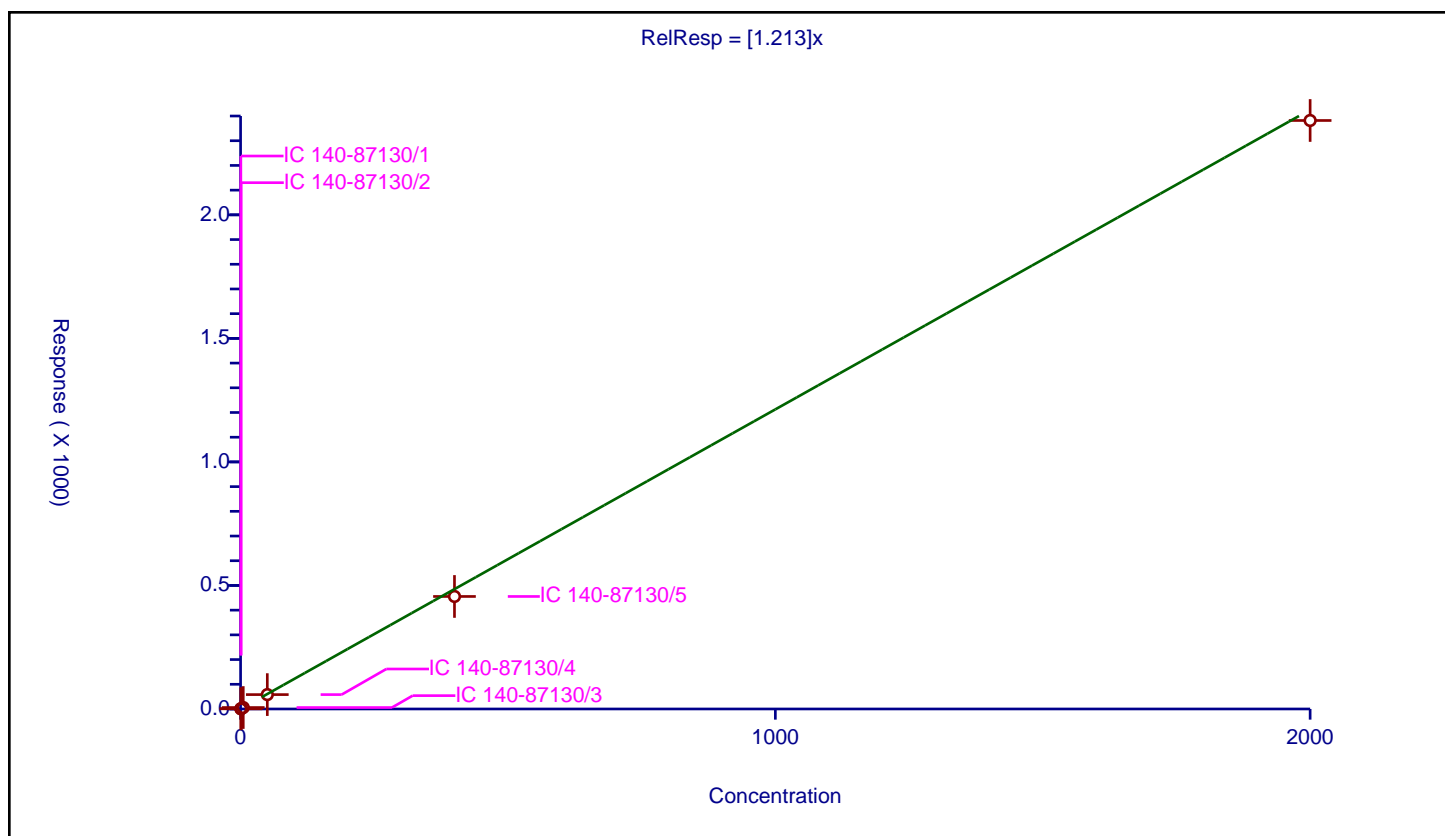
## Curve Coefficients

Intercept: 0  
 Slope: 1.213

## Error Coefficients

Relative Standard Deviation: 6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.660213	100.0	10352263.0	1.320426	Y
2	IC 140-87130/2	1.0	1.293726	100.0	9378026.0	1.293726	Y
3	IC 140-87130/3	5.0	5.840423	100.0	9411321.0	1.168085	Y
4	IC 140-87130/4	50.0	58.207061	100.0	9689577.0	1.164141	Y
5	IC 140-87130/5	400.0	455.392556	100.0	10335461.0	1.138481	Y
6	IC 140-87130/6	2000.0	2381.885866	100.0	11264701.0	1.190943	Y





# Calibration

/ PCB-65

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

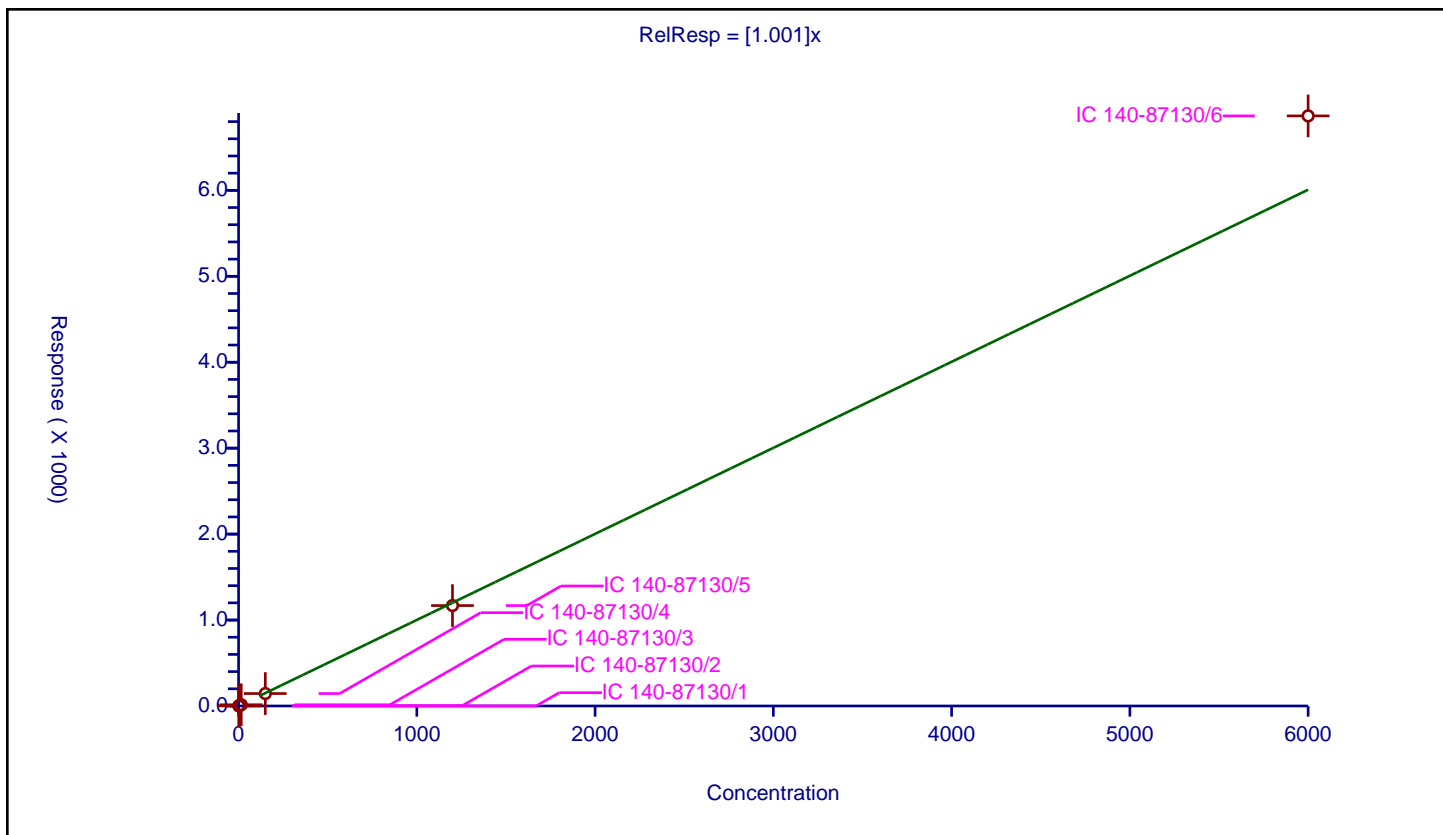
## Curve Coefficients

Intercept: 0  
 Slope: 1.001

## Error Coefficients

Relative Standard Deviation: 7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.477822	100.0	10352263.0	0.985215	Y
2	IC 140-87130/2	3.0	2.962852	100.0	9378026.0	0.987617	Y
3	IC 140-87130/3	15.0	14.283308	100.0	9411321.0	0.952221	Y
4	IC 140-87130/4	150.0	144.622474	100.0	9689577.0	0.96415	Y
5	IC 140-87130/5	1200.0	1168.291526	100.0	10335461.0	0.973576	Y
6	IC 140-87130/6	6000.0	6866.617871	100.0	11264701.0	1.144436	Y



**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

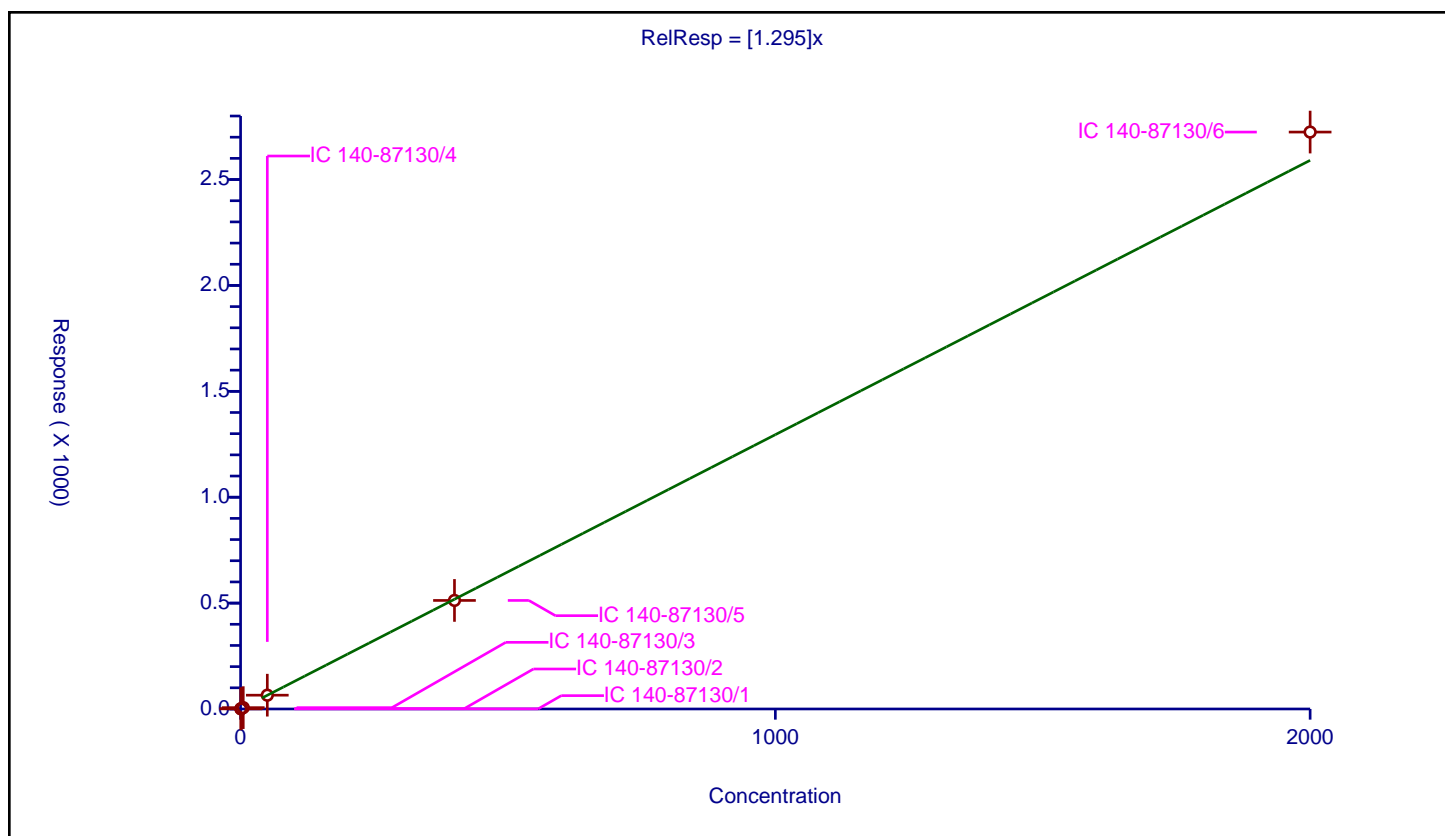
## Curve Coefficients

**Intercept:** 0  
**Slope:** 1.295

## Error Coefficients

**Relative Standard Deviation:** 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.639464	100.0	10352263.0	1.278928	Y
2	IC 140-87130/2	1.0	1.269617	100.0	9378026.0	1.269617	Y
3	IC 140-87130/3	5.0	6.385852	100.0	9411321.0	1.27717	Y
4	IC 140-87130/4	50.0	65.144454	100.0	9689577.0	1.302889	Y
5	IC 140-87130/5	400.0	512.613835	100.0	10335461.0	1.281535	Y
6	IC 140-87130/6	2000.0	2724.238389	100.0	11264701.0	1.362119	Y



# Calibration

/ PCB-67

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

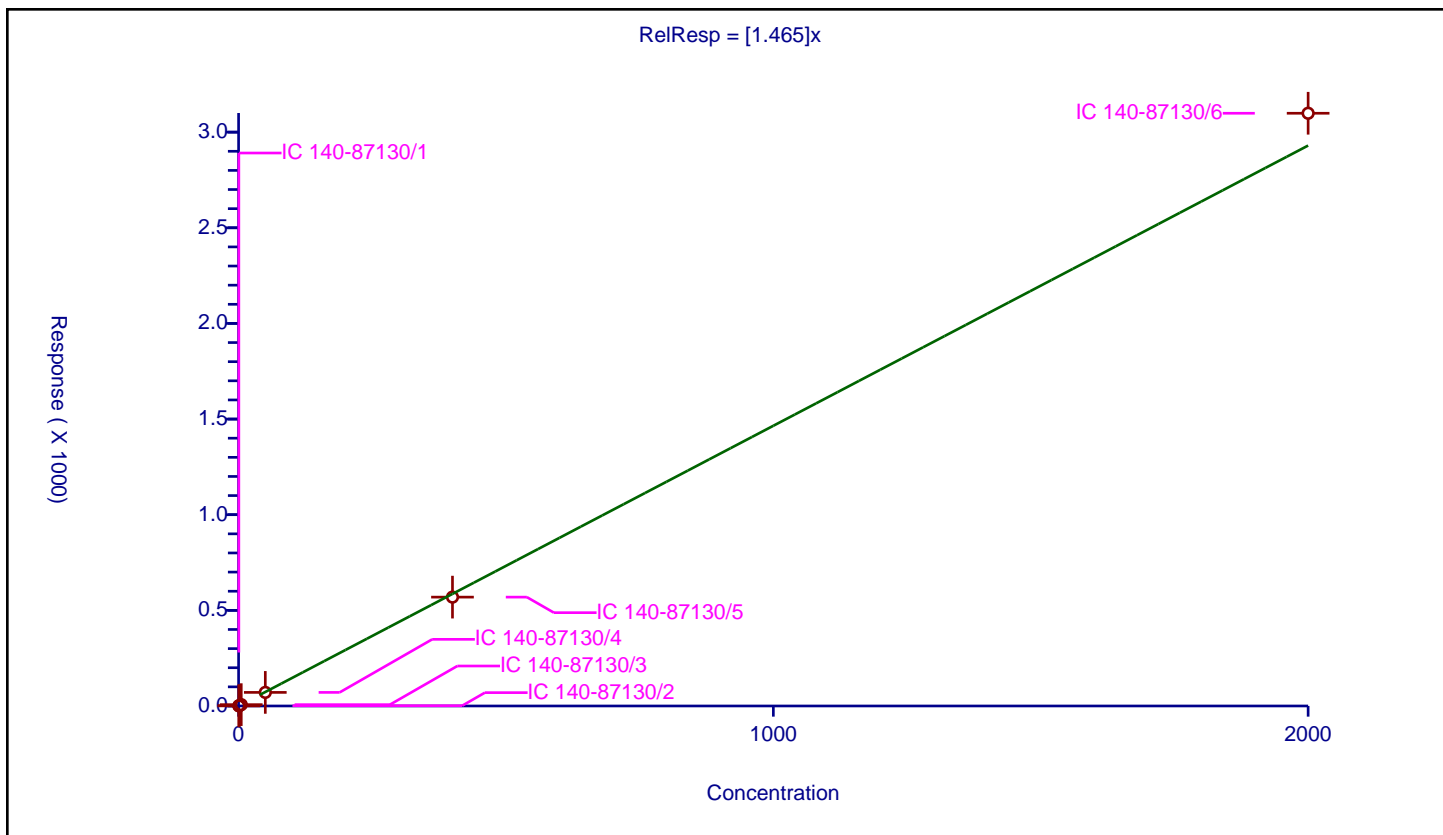
## Curve Coefficients

Intercept: 0  
 Slope: 1.465

## Error Coefficients

Relative Standard Deviation: 4.3

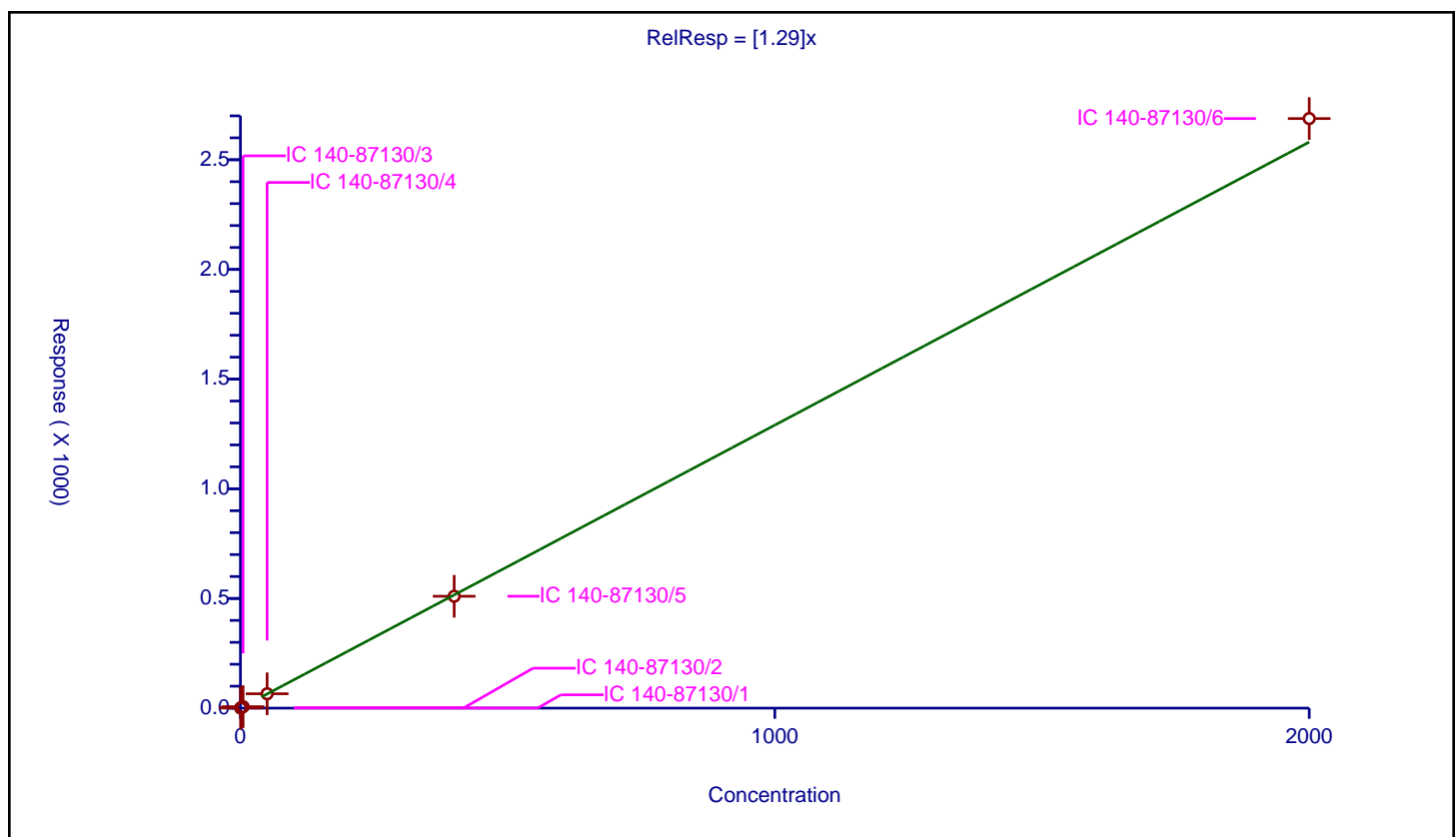
ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.76959	100.0	10352263.0	1.53918	Y
2	IC 140-87130/2	1.0	1.450231	100.0	9378026.0	1.450231	Y
3	IC 140-87130/3	5.0	7.044229	100.0	9411321.0	1.408846	Y
4	IC 140-87130/4	50.0	70.96219	100.0	9689577.0	1.419244	Y
5	IC 140-87130/5	400.0	569.077403	100.0	10335461.0	1.422694	Y
6	IC 140-87130/6	2000.0	3098.733362	100.0	11264701.0	1.549367	Y



## / PCB-68

Curve Coefficients	
Intercept:	0
Slope:	1.29
Error Coefficients	
Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.606167	100.0	10352263.0	1.212334	Y
2	IC 140-87130/2	1.0	1.286401	100.0	9378026.0	1.286401	Y
3	IC 140-87130/3	5.0	6.575751	100.0	9411321.0	1.31515	Y
4	IC 140-87130/4	50.0	65.452207	100.0	9689577.0	1.309044	Y
5	IC 140-87130/5	400.0	510.038391	100.0	10335461.0	1.275096	Y
6	IC 140-87130/6	2000.0	2687.75118	100.0	11264701.0	1.343876	Y



**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

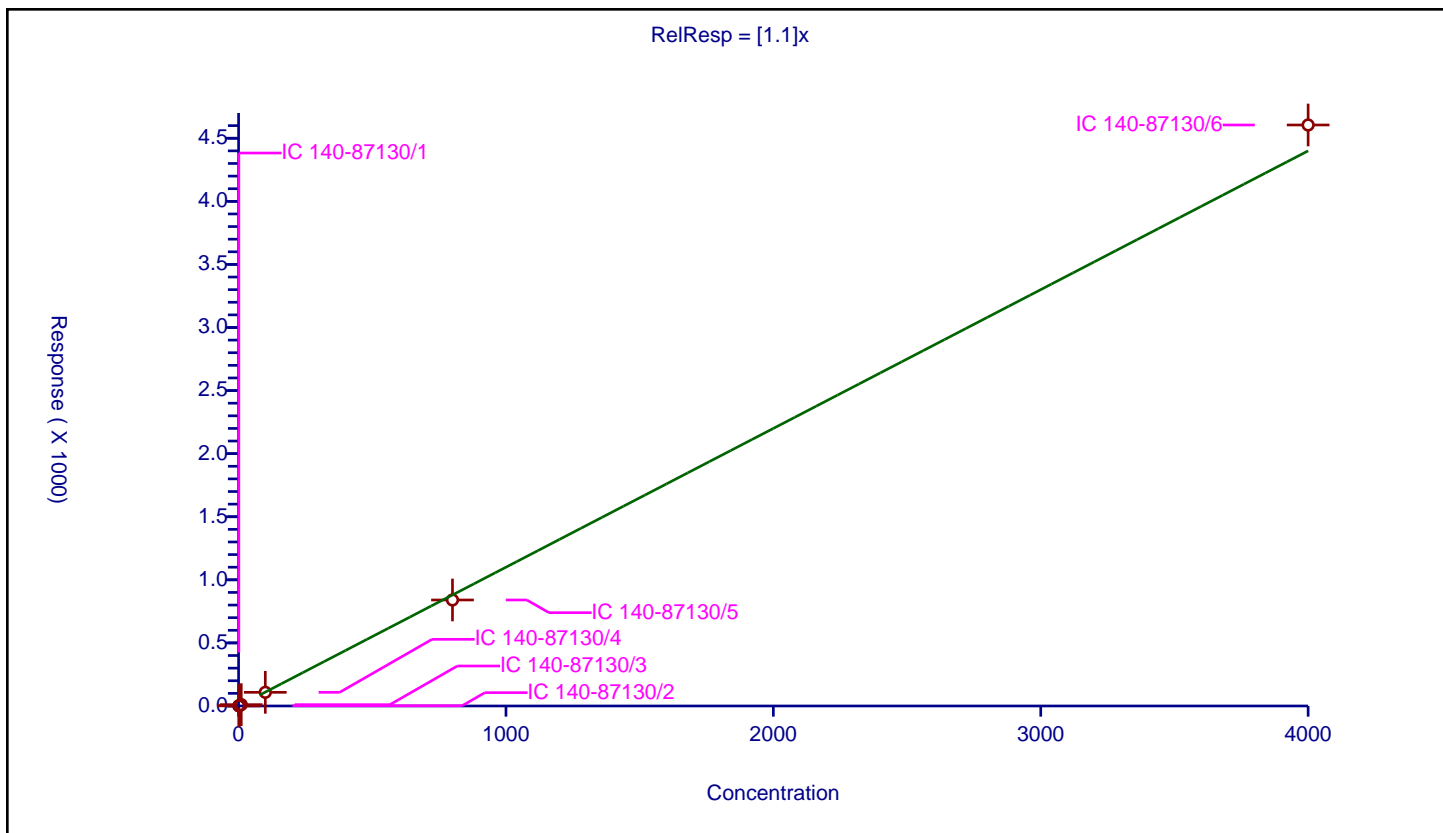
## Curve Coefficients

**Intercept:** 0  
**Slope:** 1.1

## Error Coefficients

**Relative Standard Deviation:** 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.173569	100.0	10352263.0	1.173569	Y
2	IC 140-87130/2	2.0	2.152852	100.0	9378026.0	1.076426	Y
3	IC 140-87130/3	10.0	10.656952	100.0	9411321.0	1.065695	Y
4	IC 140-87130/4	100.0	108.268596	100.0	9689577.0	1.082686	Y
5	IC 140-87130/5	800.0	840.297438	100.0	10335461.0	1.050372	Y
6	IC 140-87130/6	4000.0	4605.085719	100.0	11264701.0	1.151271	Y



# Calibration

/ PCB-7

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

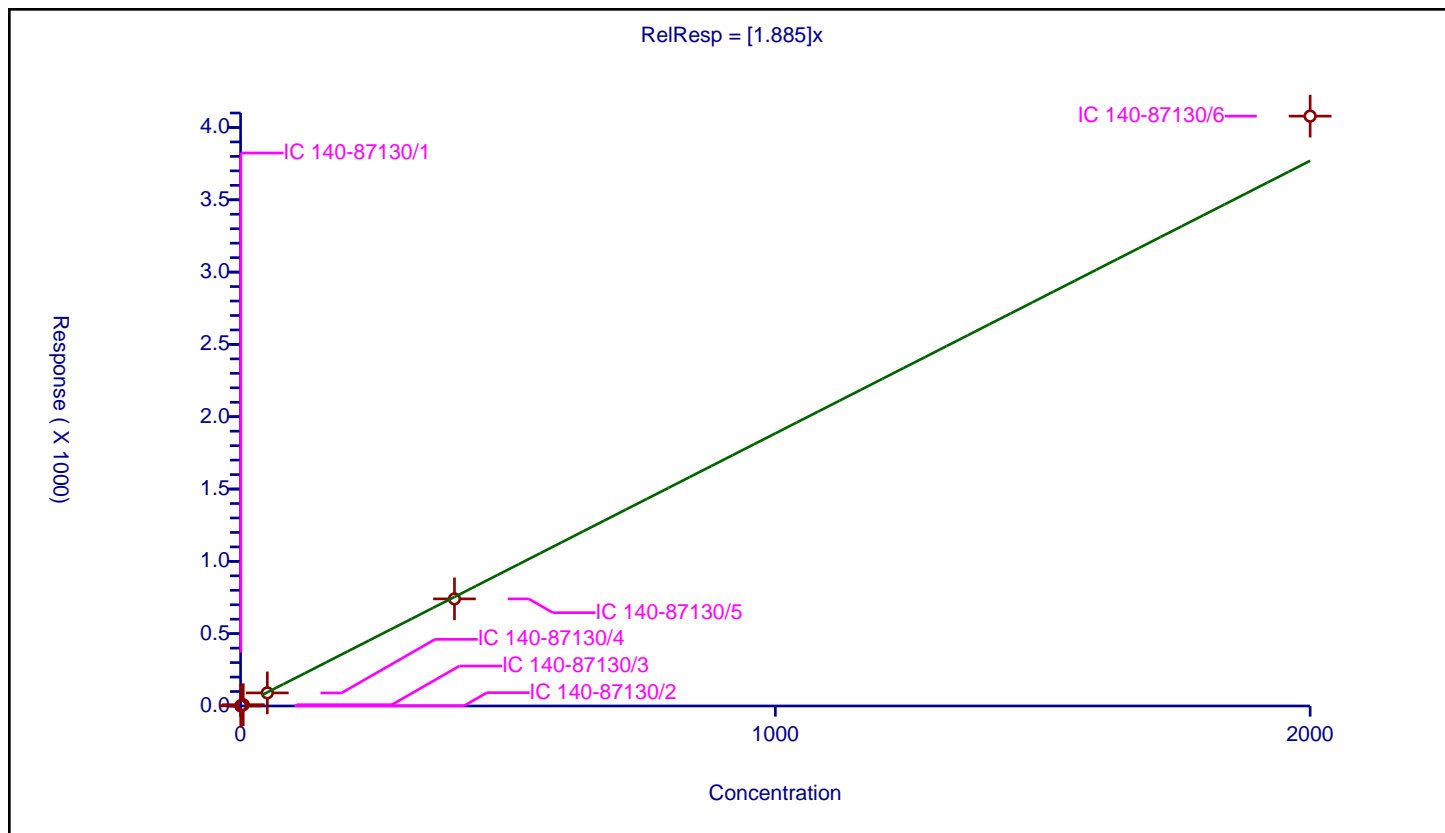
## Curve Coefficients

Intercept: 0  
Slope: 1.885

## Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.984957	100.0	5904521.0	1.969914	Y
2	IC 140-87130/2	1.0	1.833443	100.0	5442766.0	1.833443	Y
3	IC 140-87130/3	5.0	9.032736	100.0	5279032.0	1.806547	Y
4	IC 140-87130/4	50.0	90.425639	100.0	5474214.0	1.808513	Y
5	IC 140-87130/5	400.0	740.476153	100.0	5561618.0	1.85119	Y
6	IC 140-87130/6	2000.0	4078.342309	100.0	5672202.0	2.039171	Y



## Calibration

/ PCB-70

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

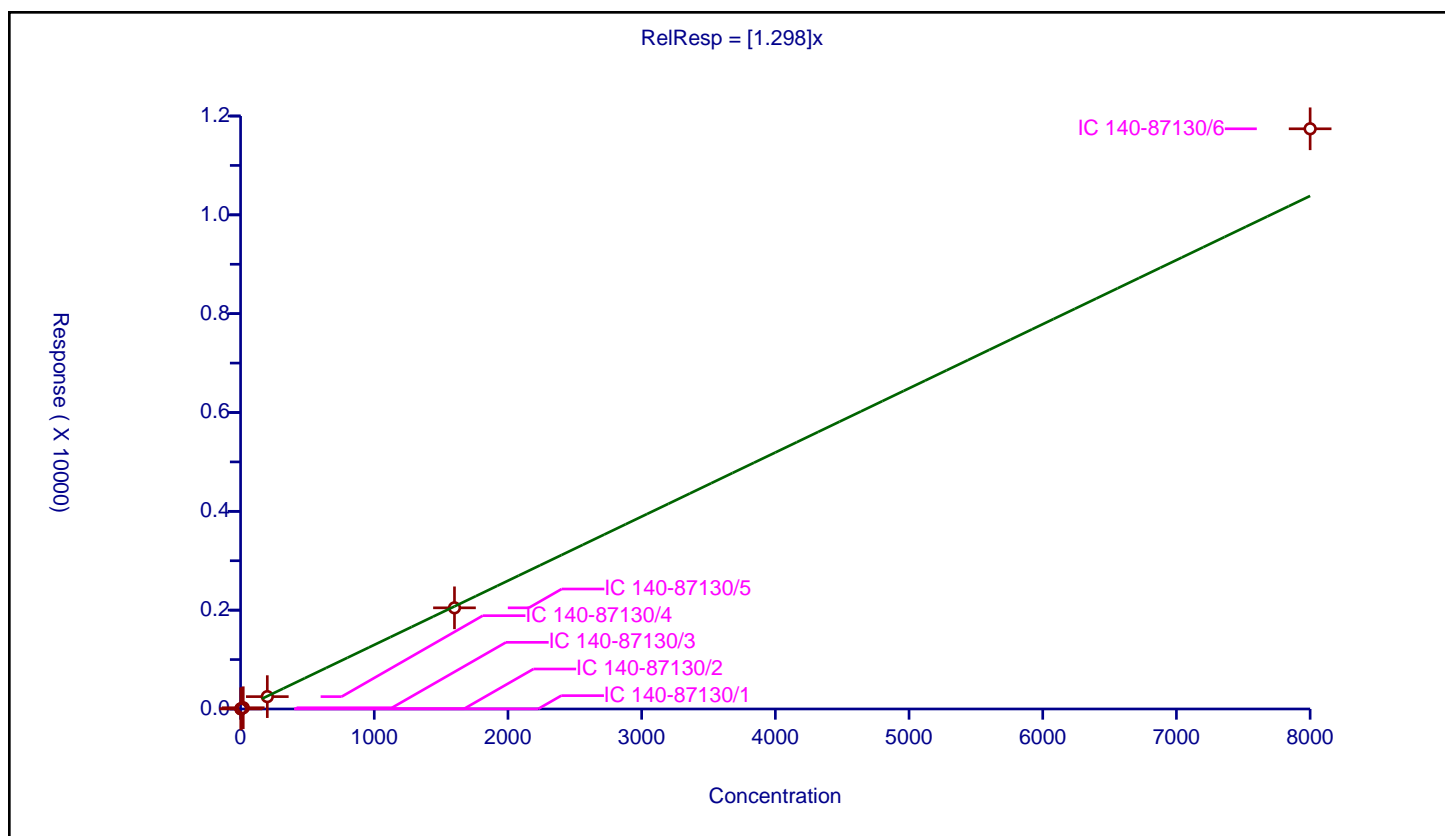
## Curve Coefficients

Intercept: 0  
Slope: 1.298

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



# Calibration

/ PCB-71

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

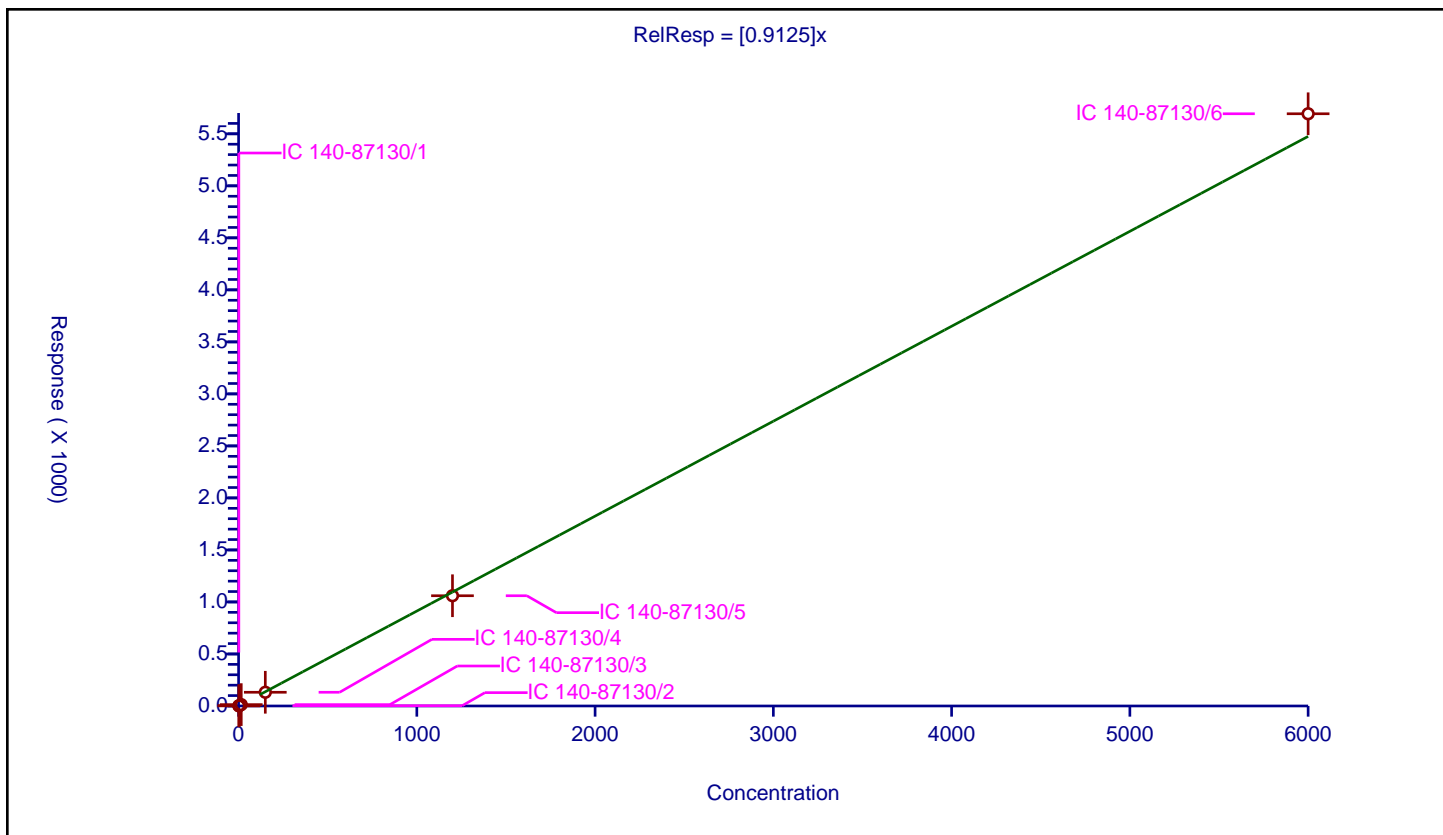
## Curve Coefficients

Intercept: 0  
 Slope: 0.9125

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.47845	100.0	10352263.0	0.985633	Y
2	IC 140-87130/2	3.0	2.69336	100.0	9378026.0	0.897787	Y
3	IC 140-87130/3	15.0	13.208581	100.0	9411321.0	0.880572	Y
4	IC 140-87130/4	150.0	131.86716	100.0	9689577.0	0.879114	Y
5	IC 140-87130/5	1200.0	1059.882622	100.0	10335461.0	0.883236	Y
6	IC 140-87130/6	6000.0	5692.828269	100.0	11264701.0	0.948805	Y





# Calibration

/ PCB-72

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

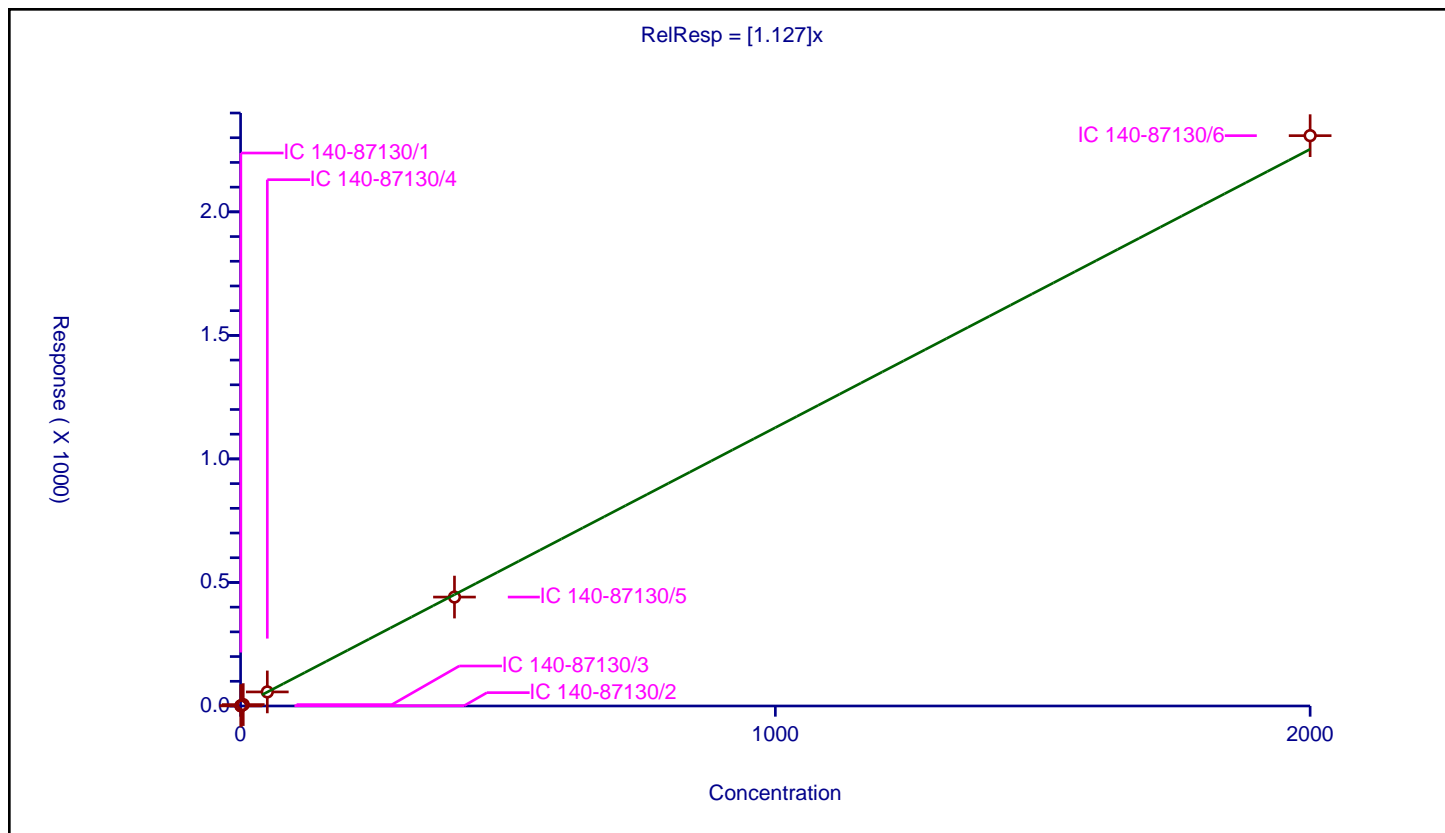
## Curve Coefficients

Intercept: 0  
 Slope: 1.127

## Error Coefficients

Relative Standard Deviation: 2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.573015	100.0	10352263.0	1.14603	Y
2	IC 140-87130/2	1.0	1.09618	100.0	9378026.0	1.09618	Y
3	IC 140-87130/3	5.0	5.619275	100.0	9411321.0	1.123855	Y
4	IC 140-87130/4	50.0	56.900337	100.0	9689577.0	1.138007	Y
5	IC 140-87130/5	400.0	440.810613	100.0	10335461.0	1.102027	Y
6	IC 140-87130/6	2000.0	2308.418555	100.0	11264701.0	1.154209	Y



# Calibration

/ PCB-73

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

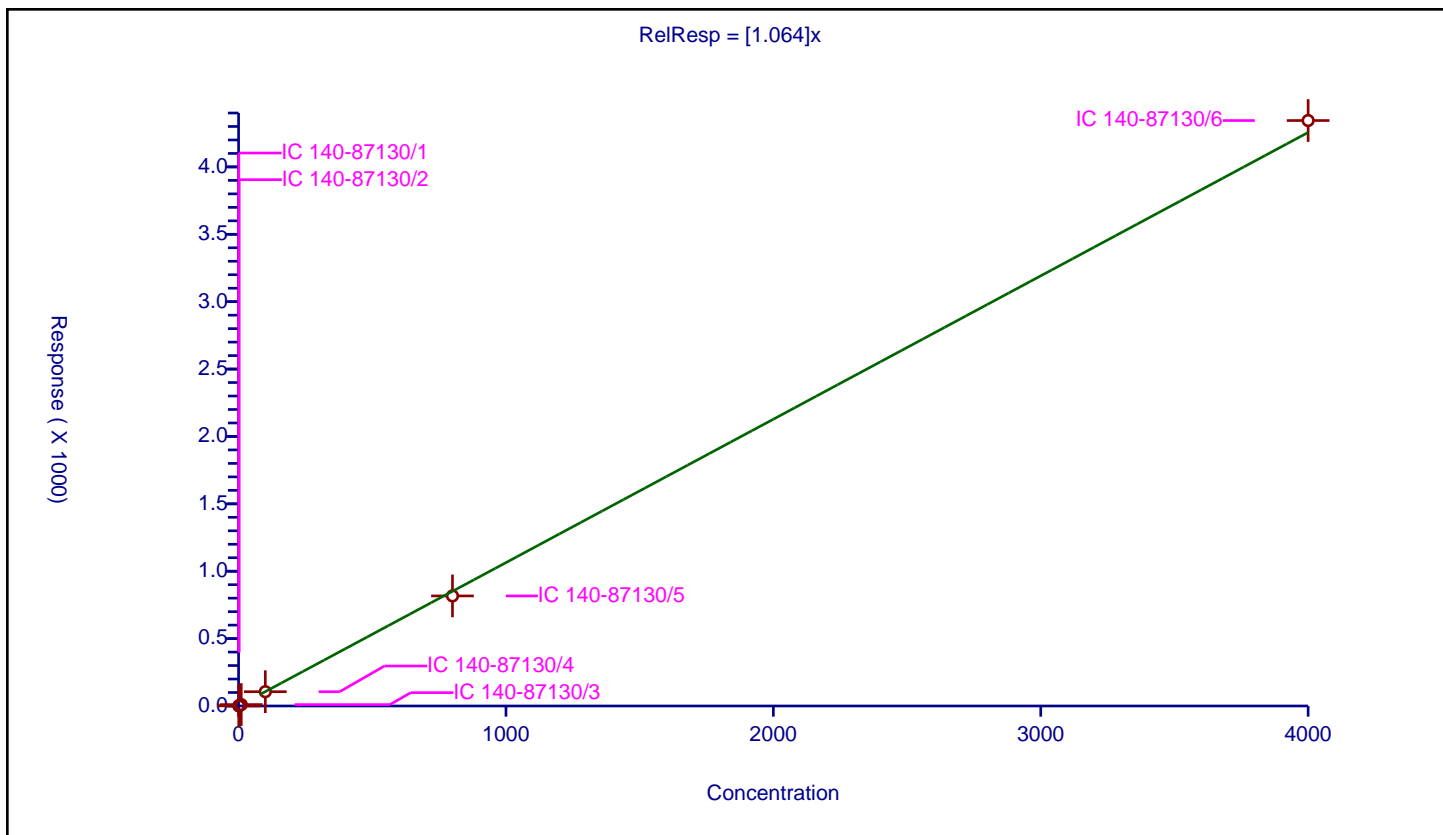
## Curve Coefficients

Intercept: 0  
Slope: 1.064

## Error Coefficients

Relative Standard Deviation: 3.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	1.113409	100.0	10352263.0	1.113409	Y
2	IC 140-87130/2	2.0	2.135076	100.0	9378026.0	1.067538	Y
3	IC 140-87130/3	10.0	10.359183	100.0	9411321.0	1.035918	Y
4	IC 140-87130/4	100.0	105.993234	100.0	9689577.0	1.059932	Y
5	IC 140-87130/5	800.0	816.641241	100.0	10335461.0	1.020802	Y
6	IC 140-87130/6	4000.0	4344.200454	100.0	11264701.0	1.08605	Y



## Calibration

/ PCB-74

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

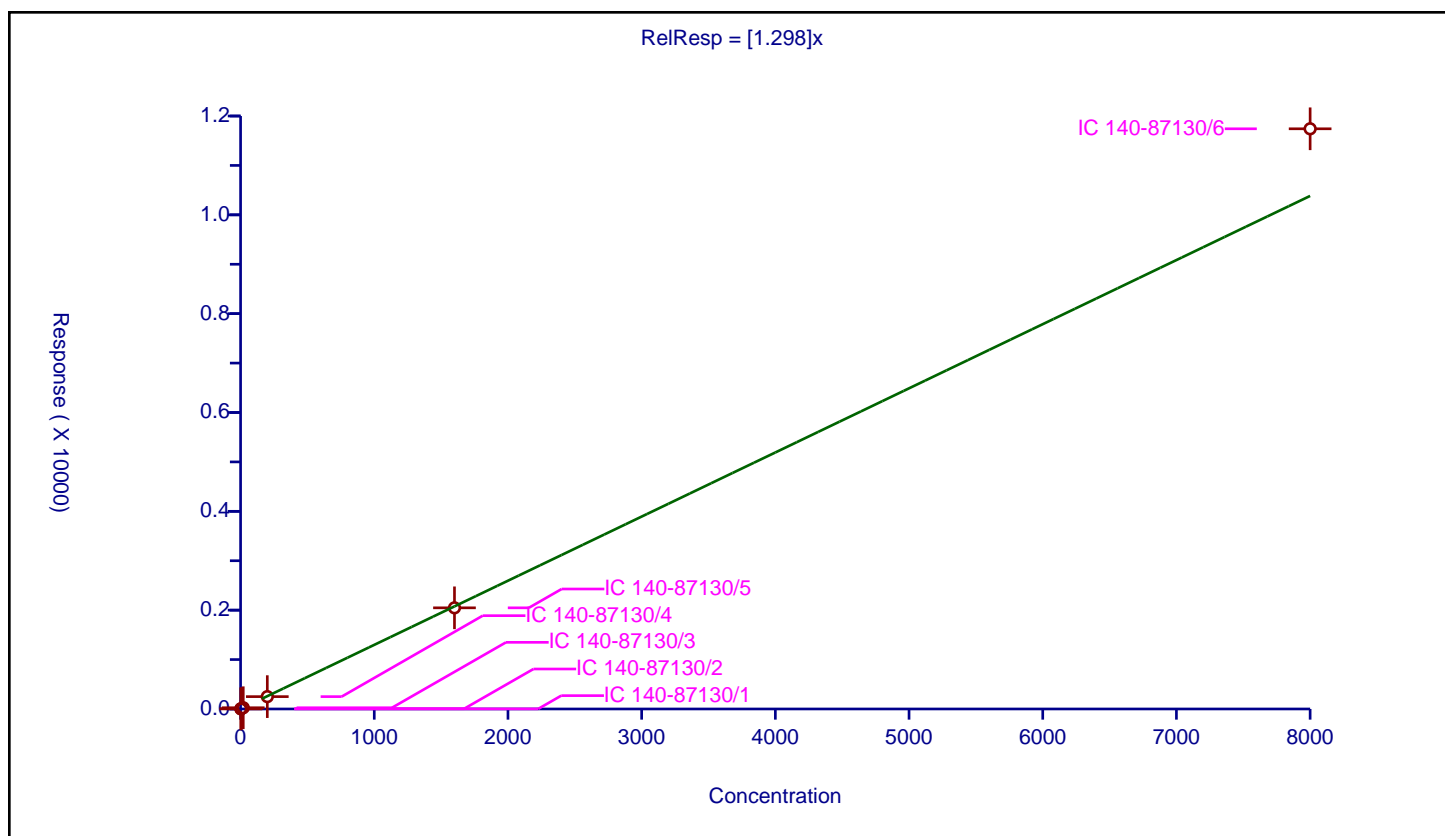
## Curve Coefficients

Intercept: 0  
Slope: 1.298

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



# Calibration

/ PCB-75

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

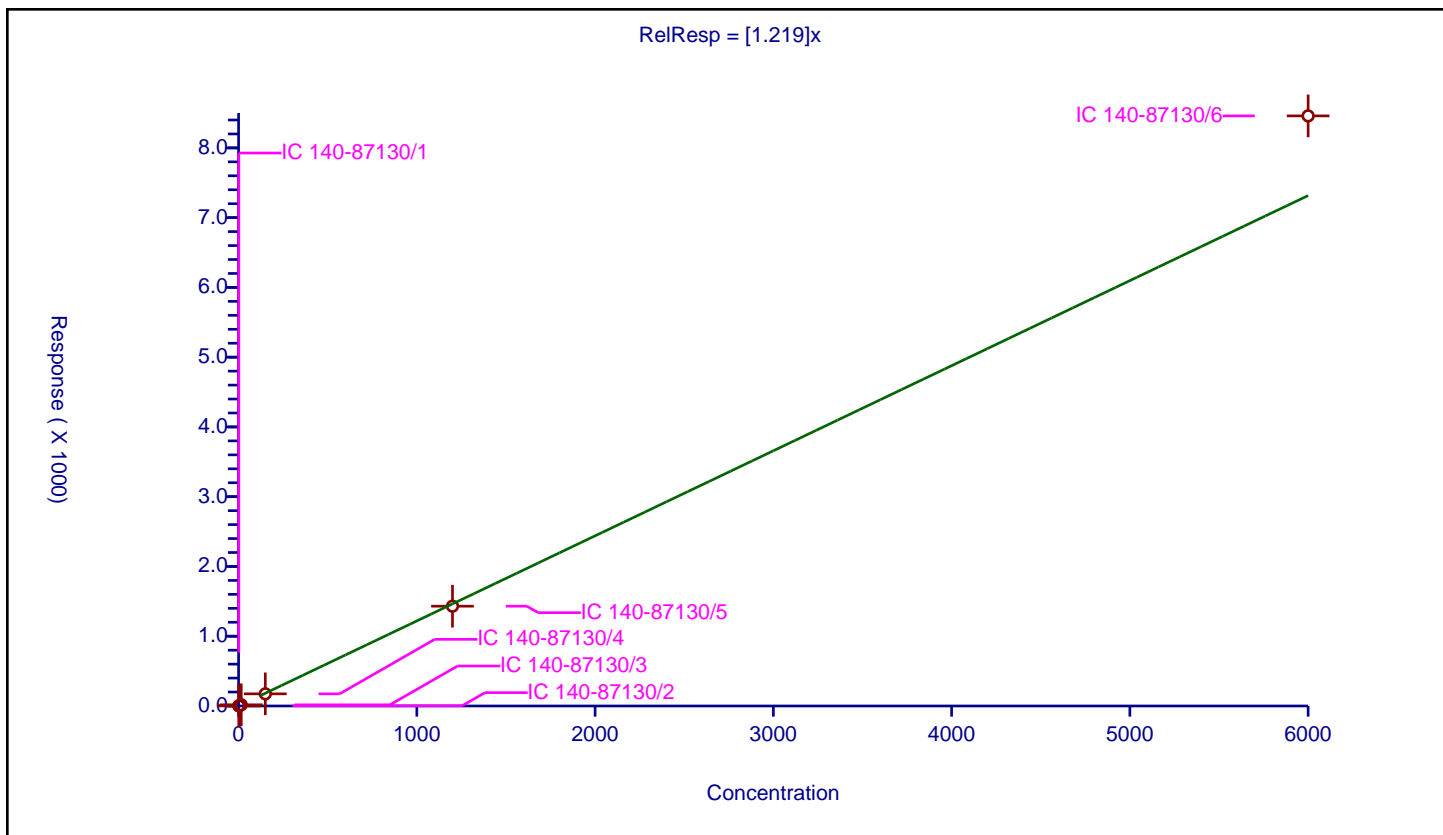
## Curve Coefficients

Intercept: 0  
 Slope: 1.219

## Error Coefficients

Relative Standard Deviation: 8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.866558	100.0	10352263.0	1.244372	Y
2	IC 140-87130/2	3.0	3.532332	100.0	9378026.0	1.177444	Y
3	IC 140-87130/3	15.0	16.979104	100.0	9411321.0	1.13194	Y
4	IC 140-87130/4	150.0	174.121842	100.0	9689577.0	1.160812	Y
5	IC 140-87130/5	1200.0	1430.71416	100.0	10335461.0	1.192262	Y
6	IC 140-87130/6	6000.0	8458.708198	100.0	11264701.0	1.409785	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

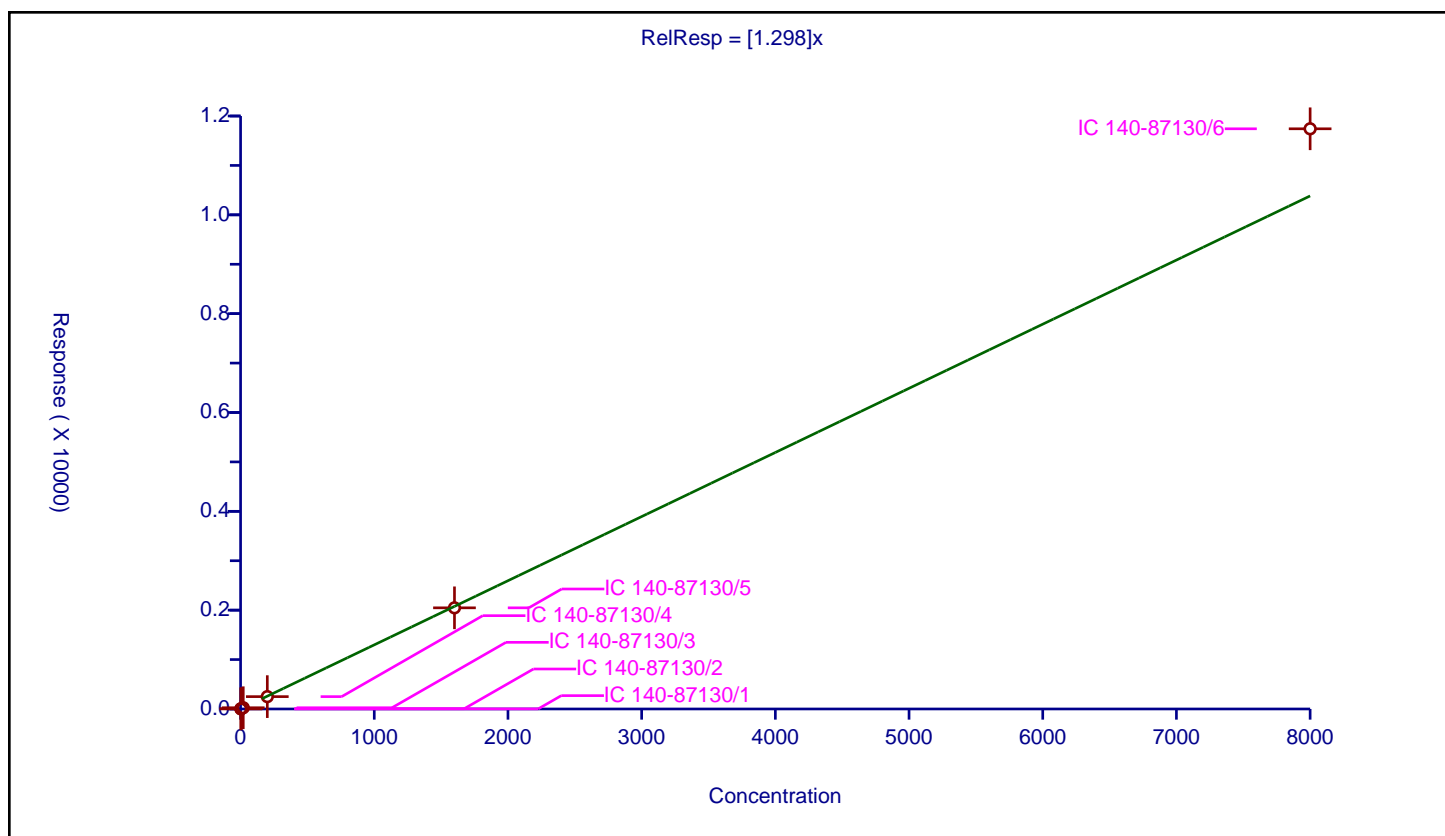
## Curve Coefficients

Intercept: 0  
Slope: 1.298

## Error Coefficients

Relative Standard Deviation: 6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	2.0	2.559344	100.0	10352263.0	1.279672	Y
2	IC 140-87130/2	4.0	5.038128	100.0	9378026.0	1.259532	Y
3	IC 140-87130/3	20.0	24.983804	100.0	9411321.0	1.24919	Y
4	IC 140-87130/4	200.0	250.320618	100.0	9689577.0	1.251603	Y
5	IC 140-87130/5	1600.0	2046.968142	100.0	10335461.0	1.279355	Y
6	IC 140-87130/6	8000.0	11741.247868	100.0	11264701.0	1.467656	Y



## Calibration

/ PCB-77

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

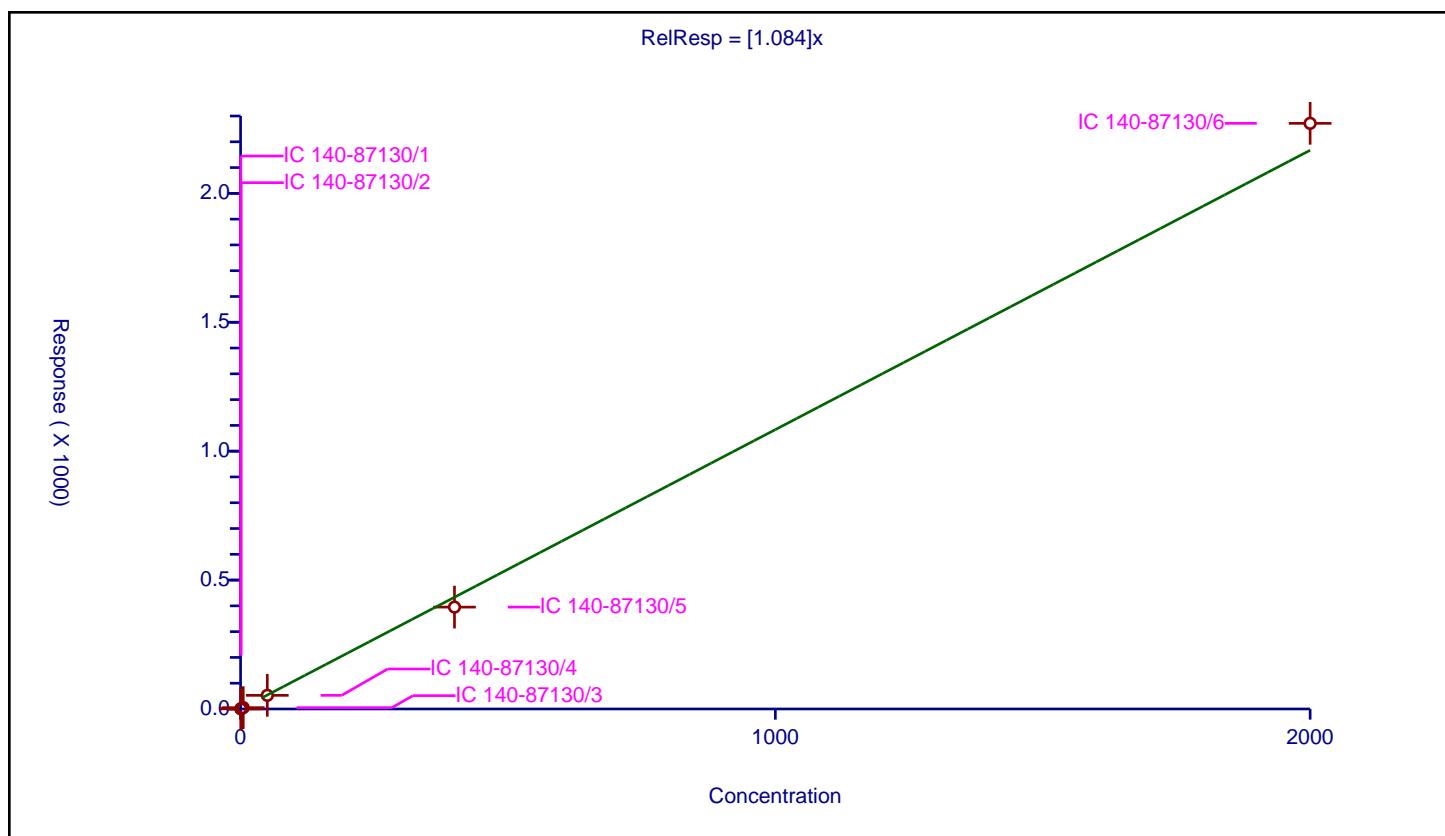
## Curve Coefficients

Intercept: 0  
Slope: 1.084

## Error Coefficients

Relative Standard Deviation: 6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.584412	100.0	11078136.0	1.168825	Y
2	IC 140-87130/2	1.0	1.114915	100.0	9952597.0	1.114915	Y
3	IC 140-87130/3	5.0	5.182303	100.0	10036639.0	1.036461	Y
4	IC 140-87130/4	50.0	52.886461	100.0	10298891.0	1.057729	Y
5	IC 140-87130/5	400.0	395.129456	100.0	11450569.0	0.987824	Y
6	IC 140-87130/6	2000.0	2271.504911	100.0	11187391.0	1.135752	Y



# Calibration

/ PCB-78

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

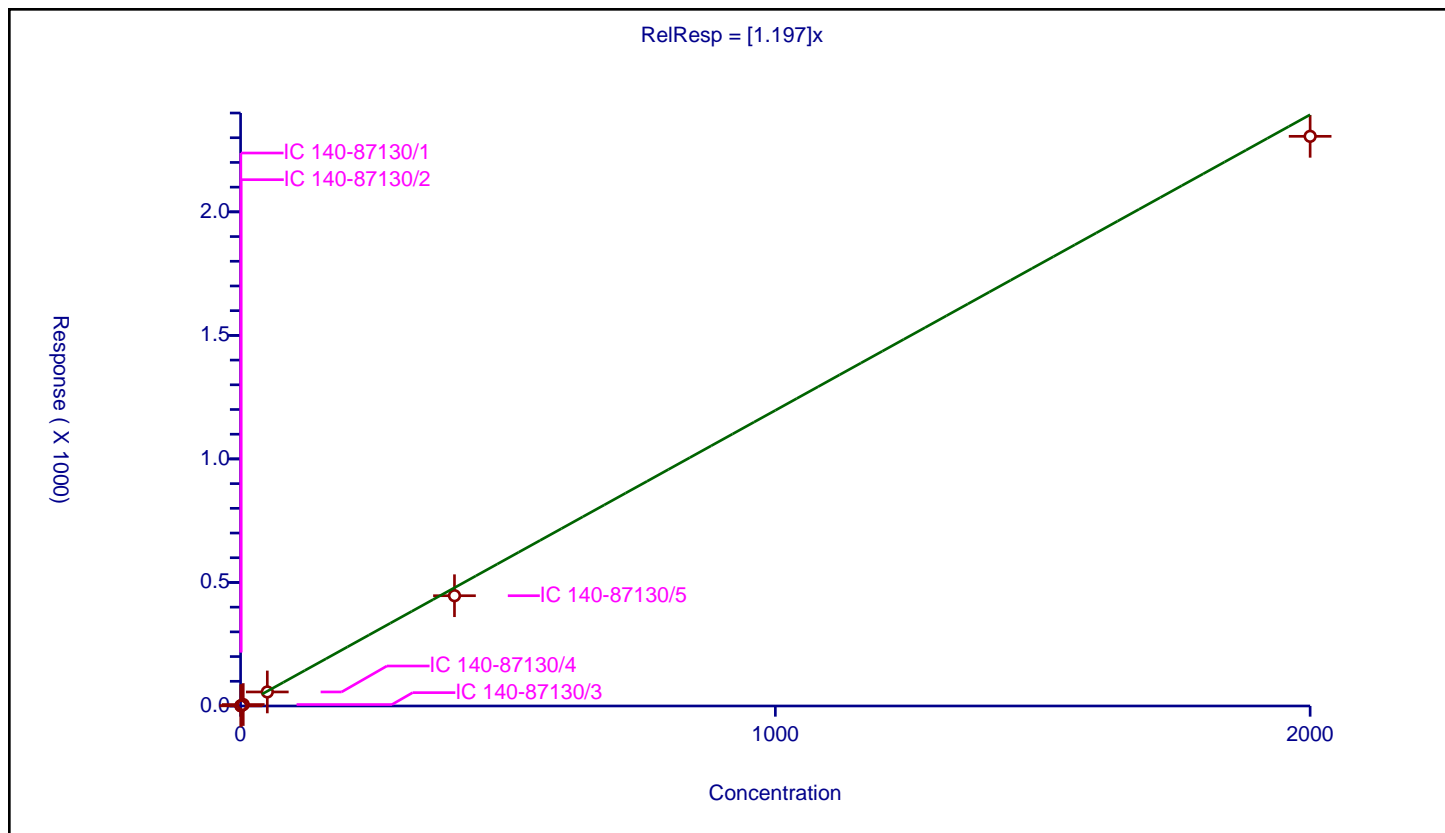
## Curve Coefficients

Intercept: 0  
 Slope: 1.197

## Error Coefficients

Relative Standard Deviation: 7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.68414	100.0	10352263.0	1.368281	Y
2	IC 140-87130/2	1.0	1.233095	100.0	9378026.0	1.233095	Y
3	IC 140-87130/3	5.0	5.863959	100.0	9411321.0	1.172792	Y
4	IC 140-87130/4	50.0	56.827187	100.0	9689577.0	1.136544	Y
5	IC 140-87130/5	400.0	446.394099	100.0	10335461.0	1.115985	Y
6	IC 140-87130/6	2000.0	2305.628964	100.0	11264701.0	1.152814	Y



# Calibration

/ PCB-79

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

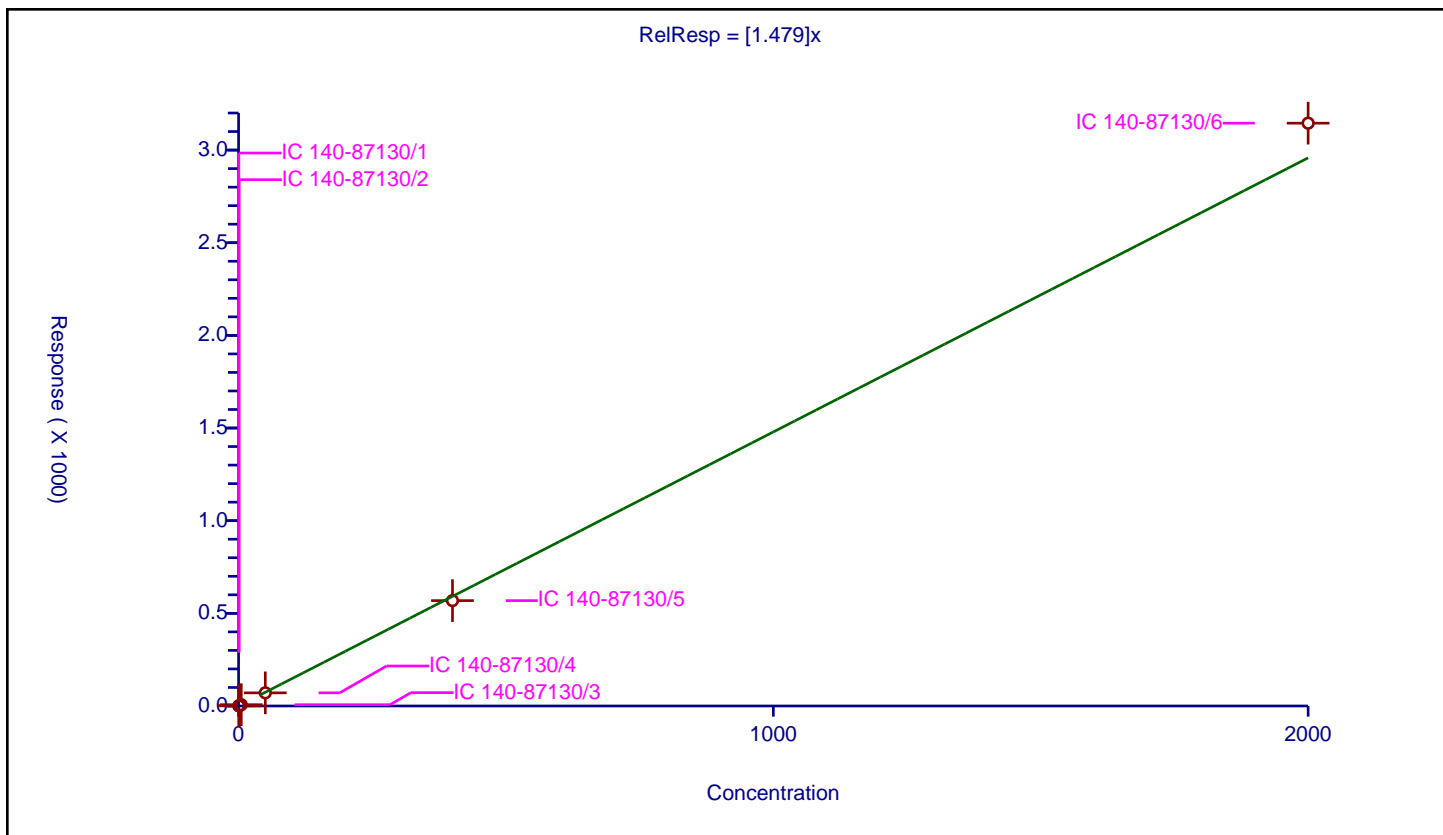
## Curve Coefficients

Intercept: 0  
 Slope: 1.479

## Error Coefficients

Relative Standard Deviation: 5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.747614	100.0	10352263.0	1.495229	Y
2	IC 140-87130/2	1.0	1.574468	100.0	9378026.0	1.574468	Y
3	IC 140-87130/3	5.0	6.968533	100.0	9411321.0	1.393707	Y
4	IC 140-87130/4	50.0	70.814226	100.0	9689577.0	1.416285	Y
5	IC 140-87130/5	400.0	568.587033	100.0	10335461.0	1.421468	Y
6	IC 140-87130/6	2000.0	3145.18333	100.0	11264701.0	1.572592	Y





# Calibration

/ PCB-79L

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

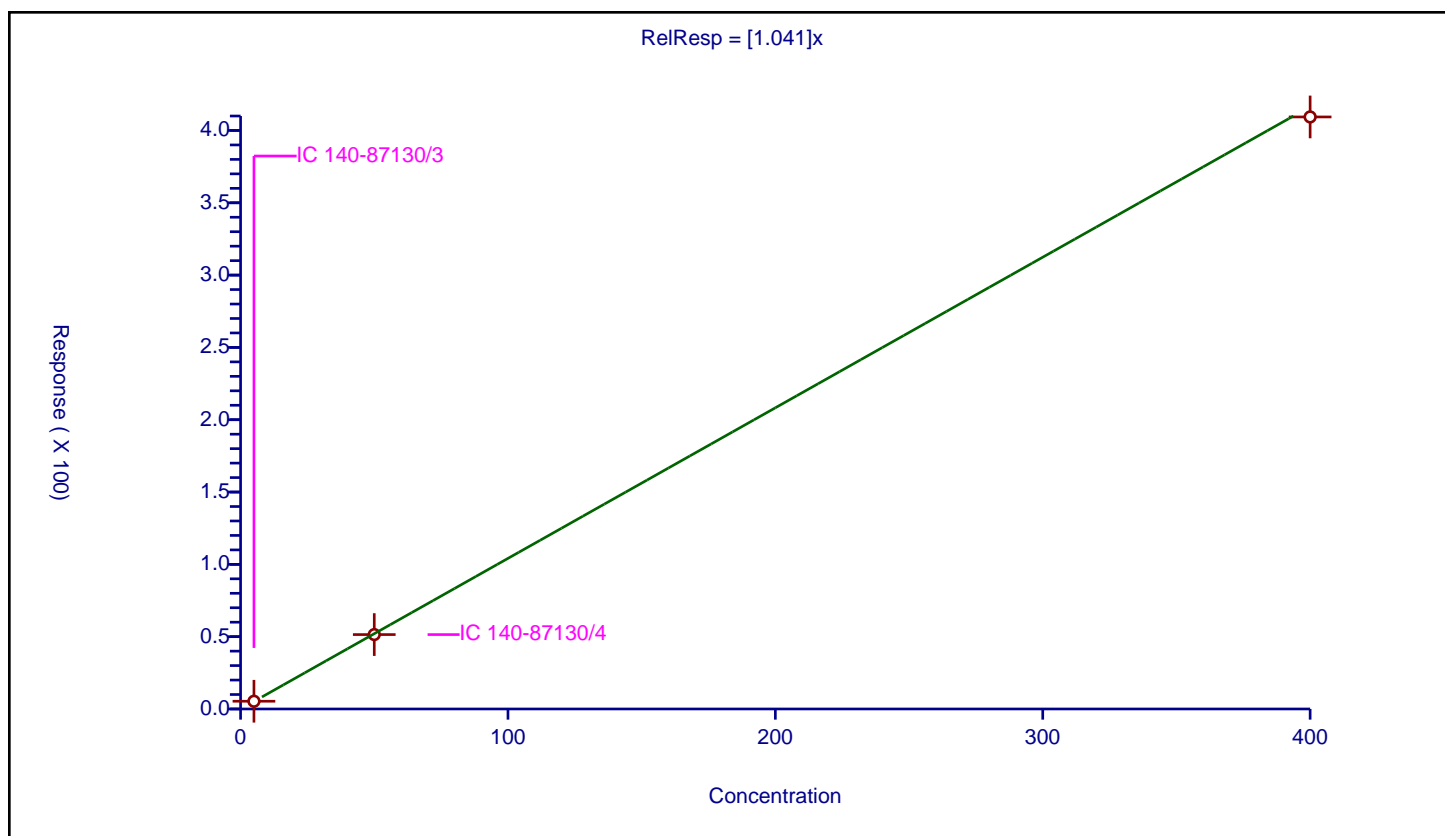
## Curve Coefficients

Intercept: 0  
 Slope: 1.041

## Error Coefficients

Relative Standard Deviation: 2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	5.355592	100.0	9411321.0	1.071118	Y
2	IC 140-87130/4	50.0	51.458056	100.0	9689577.0	1.029161	Y
3	IC 140-87130/5	400.0	409.362485	100.0	10335461.0	1.023406	Y



# Calibration

/ PCB-8

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

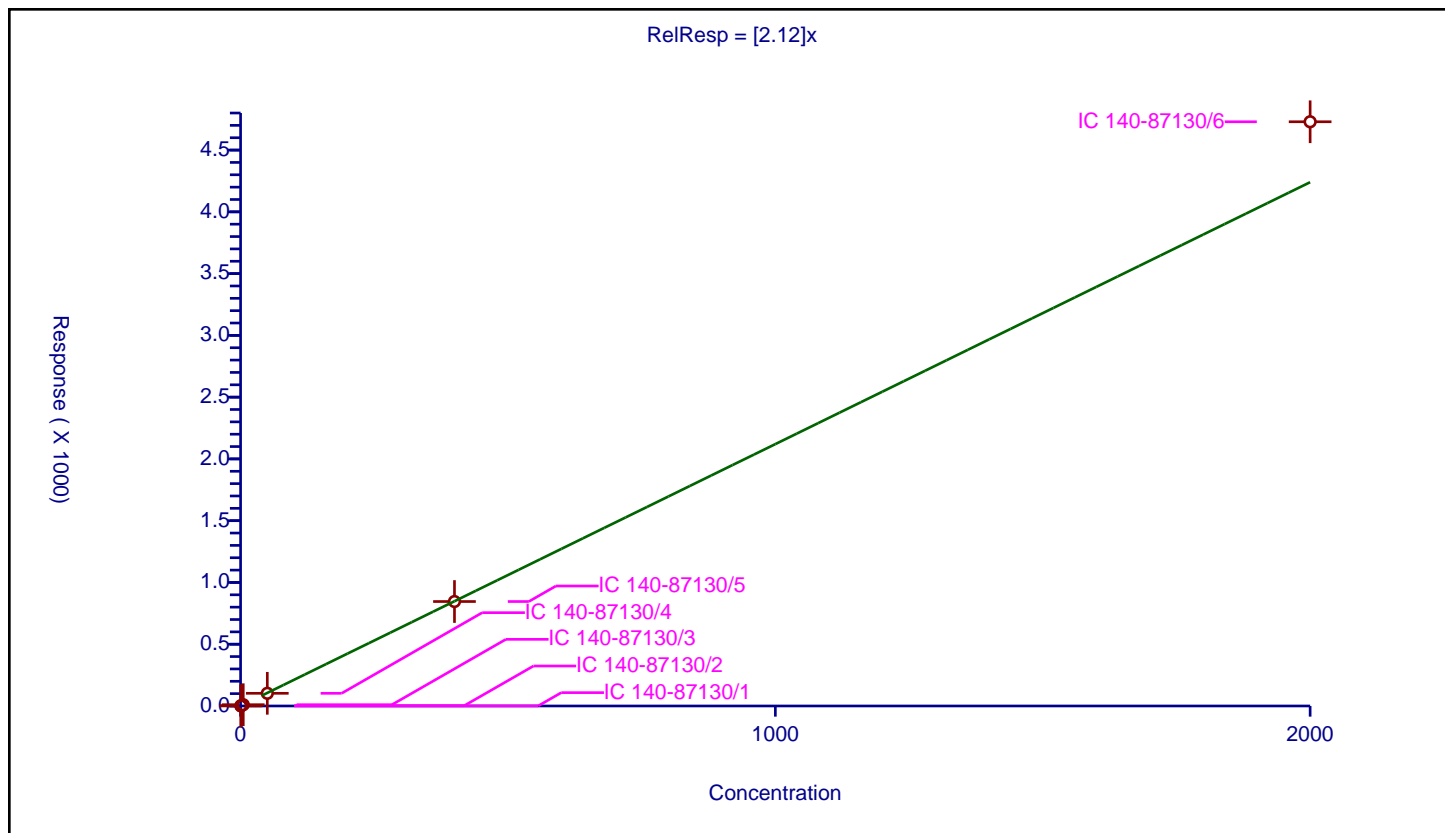
## Curve Coefficients

Intercept: 0  
Slope: 2.12

## Error Coefficients

Relative Standard Deviation: 6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	1.049653	100.0	5904521.0	2.099307	Y
2	IC 140-87130/2	1.0	1.993839	100.0	5442766.0	1.993839	Y
3	IC 140-87130/3	5.0	10.469003	100.0	5279032.0	2.093801	Y
4	IC 140-87130/4	50.0	102.692094	100.0	5474214.0	2.053842	Y
5	IC 140-87130/5	400.0	845.649881	100.0	5561618.0	2.114125	Y
6	IC 140-87130/6	2000.0	4729.113967	100.0	5672202.0	2.364557	Y



# Calibration

/ PCB-80

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

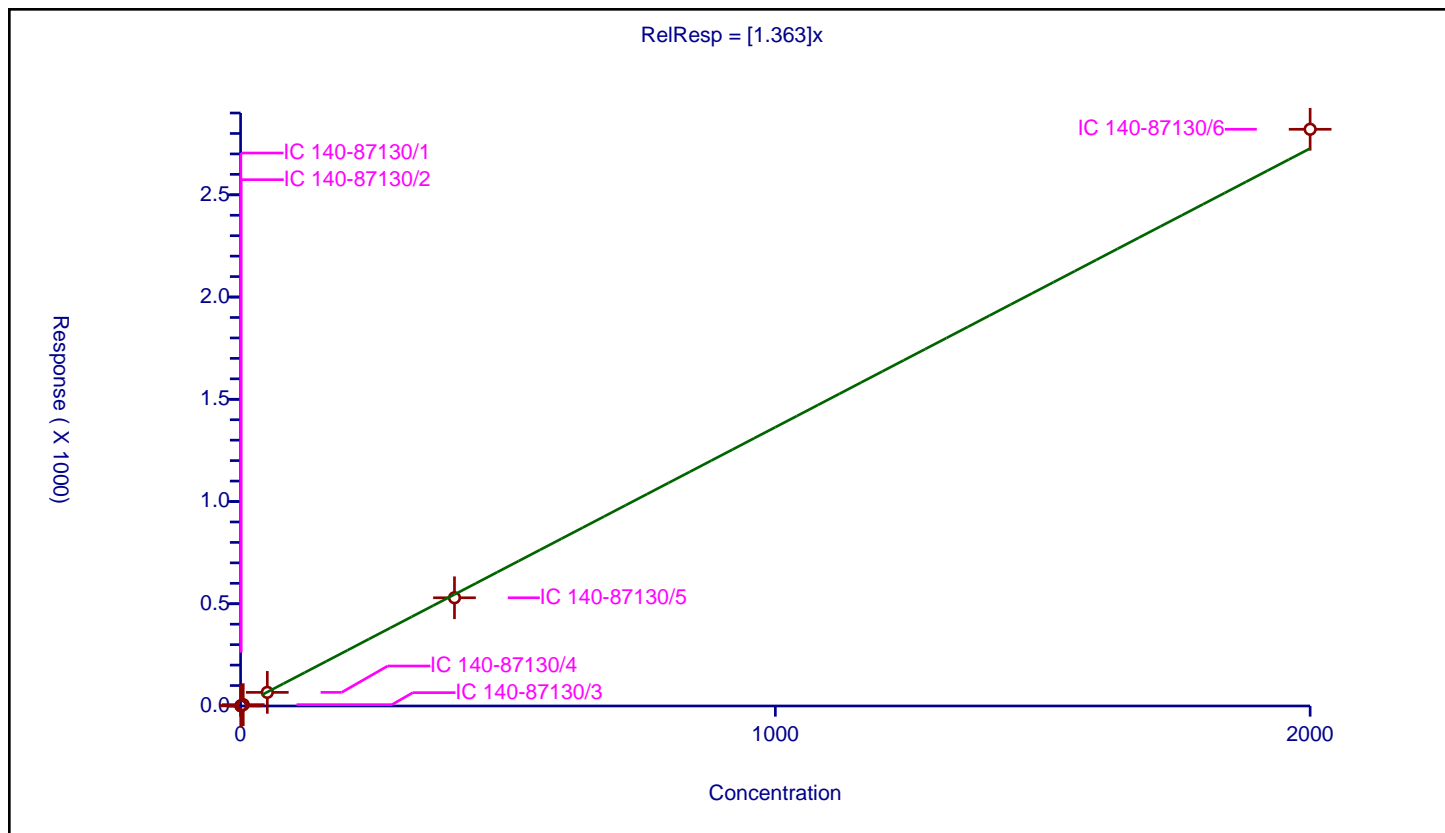
## Curve Coefficients

Intercept: 0  
Slope: 1.363

## Error Coefficients

Relative Standard Deviation: 3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.717428	100.0	10352263.0	1.434855	Y
2	IC 140-87130/2	1.0	1.365874	100.0	9378026.0	1.365874	Y
3	IC 140-87130/3	5.0	6.57286	100.0	9411321.0	1.314572	Y
4	IC 140-87130/4	50.0	66.586498	100.0	9689577.0	1.33173	Y
5	IC 140-87130/5	400.0	529.284528	100.0	10335461.0	1.323211	Y
6	IC 140-87130/6	2000.0	2820.449358	100.0	11264701.0	1.410225	Y



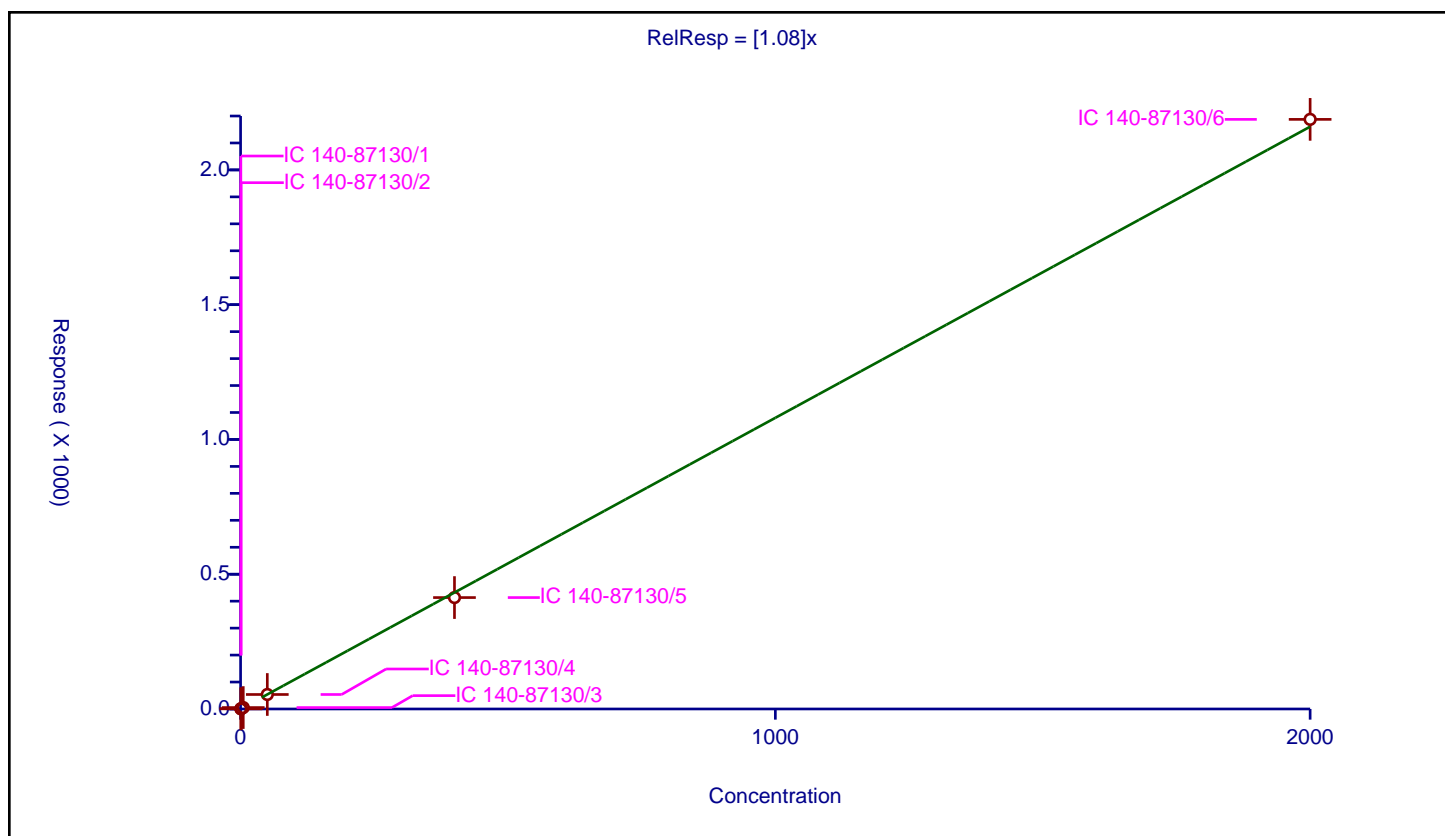
## / PCB-81

## Curve Coefficients

## Error Coefficients

**Relative Standard Deviation:** 2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.559887	100.0	10352263.0	1.119774	Y
2	IC 140-87130/2	1.0	1.09602	100.0	9378026.0	1.09602	Y
3	IC 140-87130/3	5.0	5.308309	100.0	9411321.0	1.061662	Y
4	IC 140-87130/4	50.0	53.818067	100.0	9689577.0	1.076361	Y
5	IC 140-87130/5	400.0	413.444625	100.0	10335461.0	1.033612	Y
6	IC 140-87130/6	2000.0	2187.539341	100.0	11264701.0	1.09377	Y



# Calibration

/ PCB-82

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

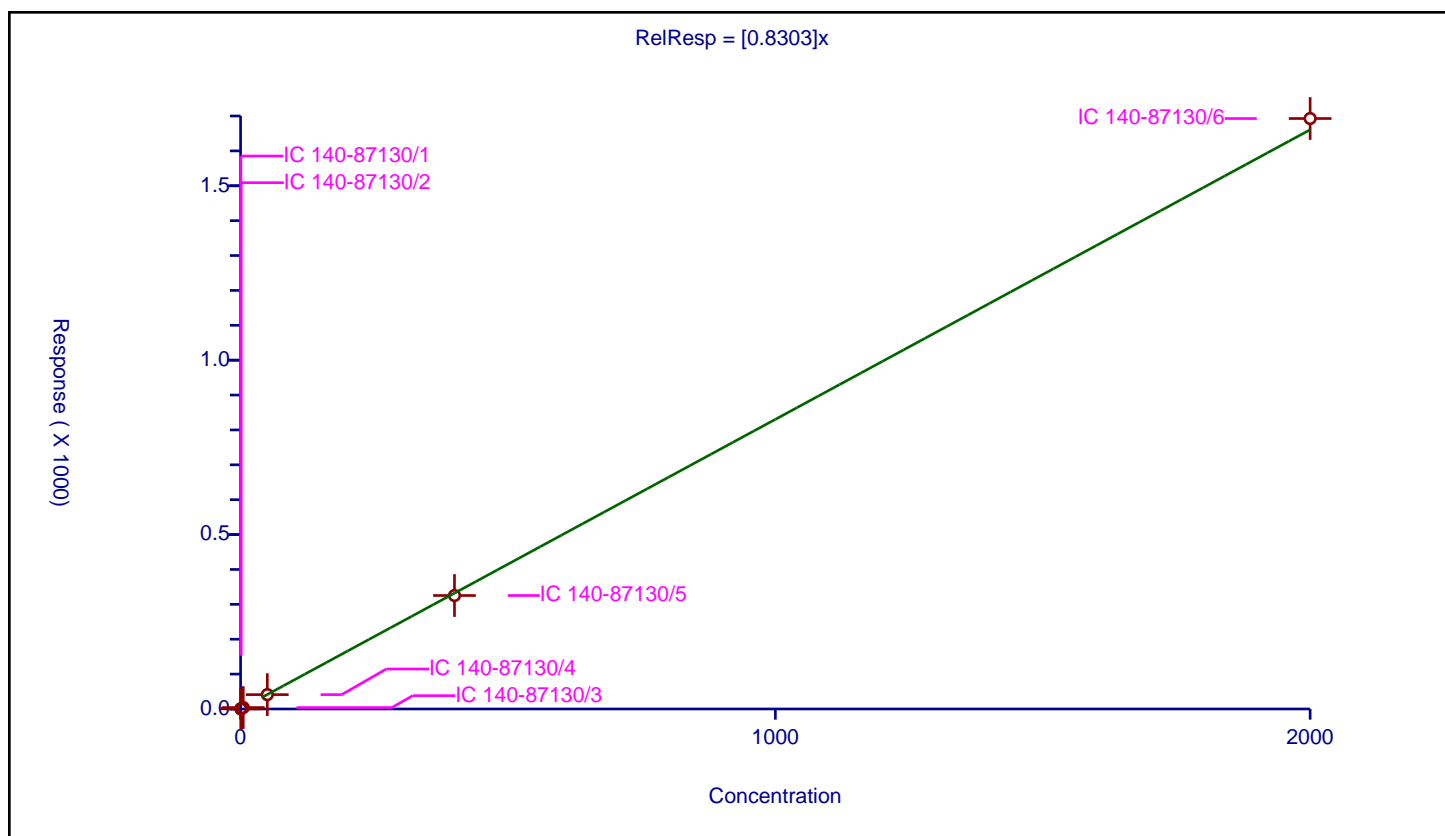
## Curve Coefficients

Intercept: 0  
Slope: 0.8303

## Error Coefficients

Relative Standard Deviation: 1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.417147	100.0	6938320.0	0.834294	Y
2	IC 140-87130/2	1.0	0.847078	100.0	6240748.0	0.847078	Y
3	IC 140-87130/3	5.0	4.084679	100.0	6307301.0	0.816936	Y
4	IC 140-87130/4	50.0	41.196704	100.0	6455349.0	0.823934	Y
5	IC 140-87130/5	400.0	325.326952	100.0	6672003.0	0.813317	Y
6	IC 140-87130/6	2000.0	1692.81655	100.0	6975966.0	0.846408	Y



# Calibration

/ PCB-83

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

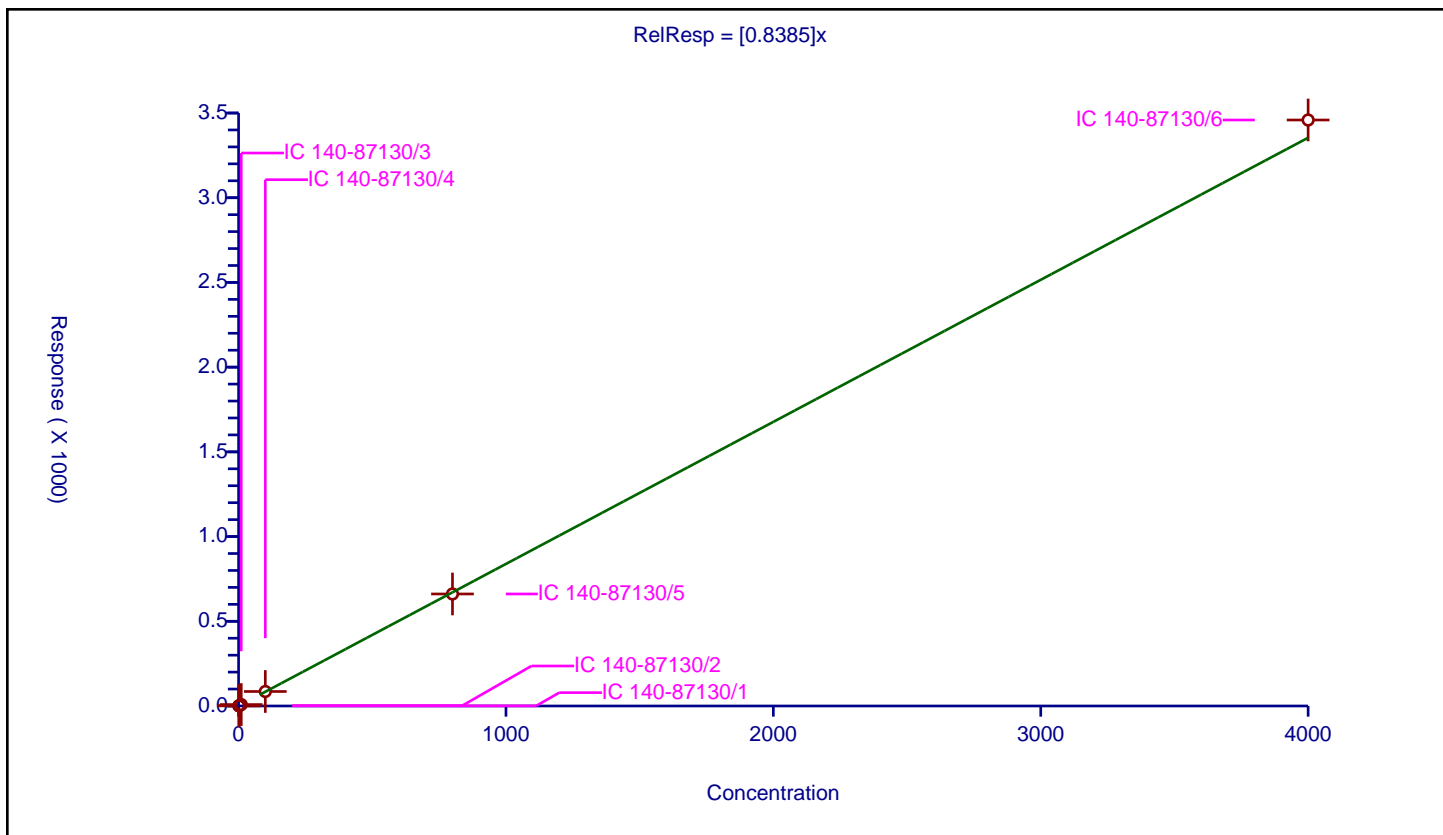
## Curve Coefficients

Intercept: 0  
 Slope: 0.8385

## Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.833516	100.0	6938320.0	0.833516	Y
2	IC 140-87130/2	2.0	1.623187	100.0	6240748.0	0.811593	Y
3	IC 140-87130/3	10.0	8.385393	100.0	6307301.0	0.838539	Y
4	IC 140-87130/4	100.0	85.61991	100.0	6455349.0	0.856199	Y
5	IC 140-87130/5	800.0	661.180518	100.0	6672003.0	0.826476	Y
6	IC 140-87130/6	4000.0	3458.757009	100.0	6975966.0	0.864689	Y



# Calibration

/ PCB-83/99

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

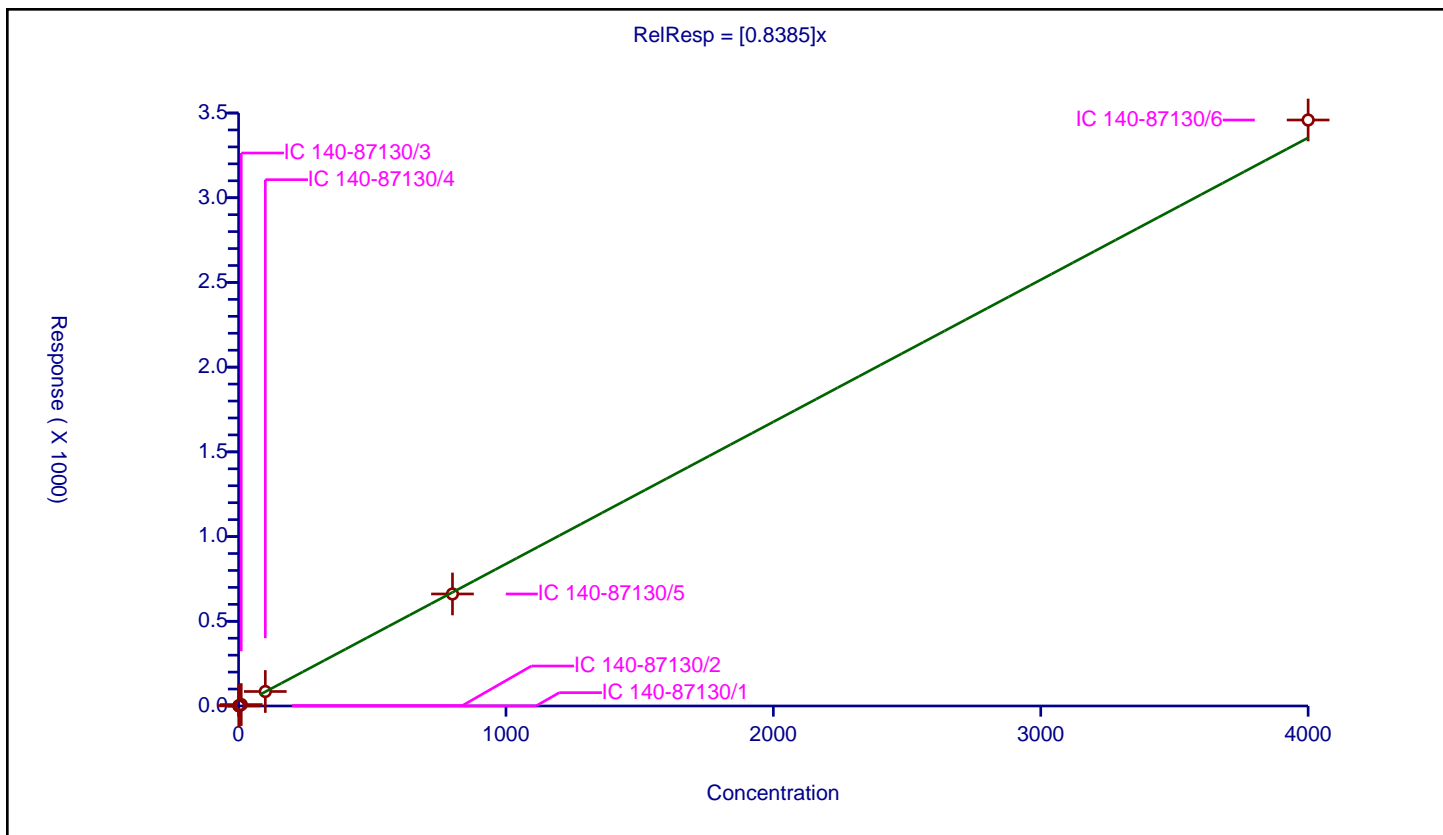
## Curve Coefficients

Intercept: 0  
Slope: 0.8385

## Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.833516	100.0	6938320.0	0.833516	Y
2	IC 140-87130/2	2.0	1.623187	100.0	6240748.0	0.811593	Y
3	IC 140-87130/3	10.0	8.385393	100.0	6307301.0	0.838539	Y
4	IC 140-87130/4	100.0	85.61991	100.0	6455349.0	0.856199	Y
5	IC 140-87130/5	800.0	661.180518	100.0	6672003.0	0.826476	Y
6	IC 140-87130/6	4000.0	3458.757009	100.0	6975966.0	0.864689	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

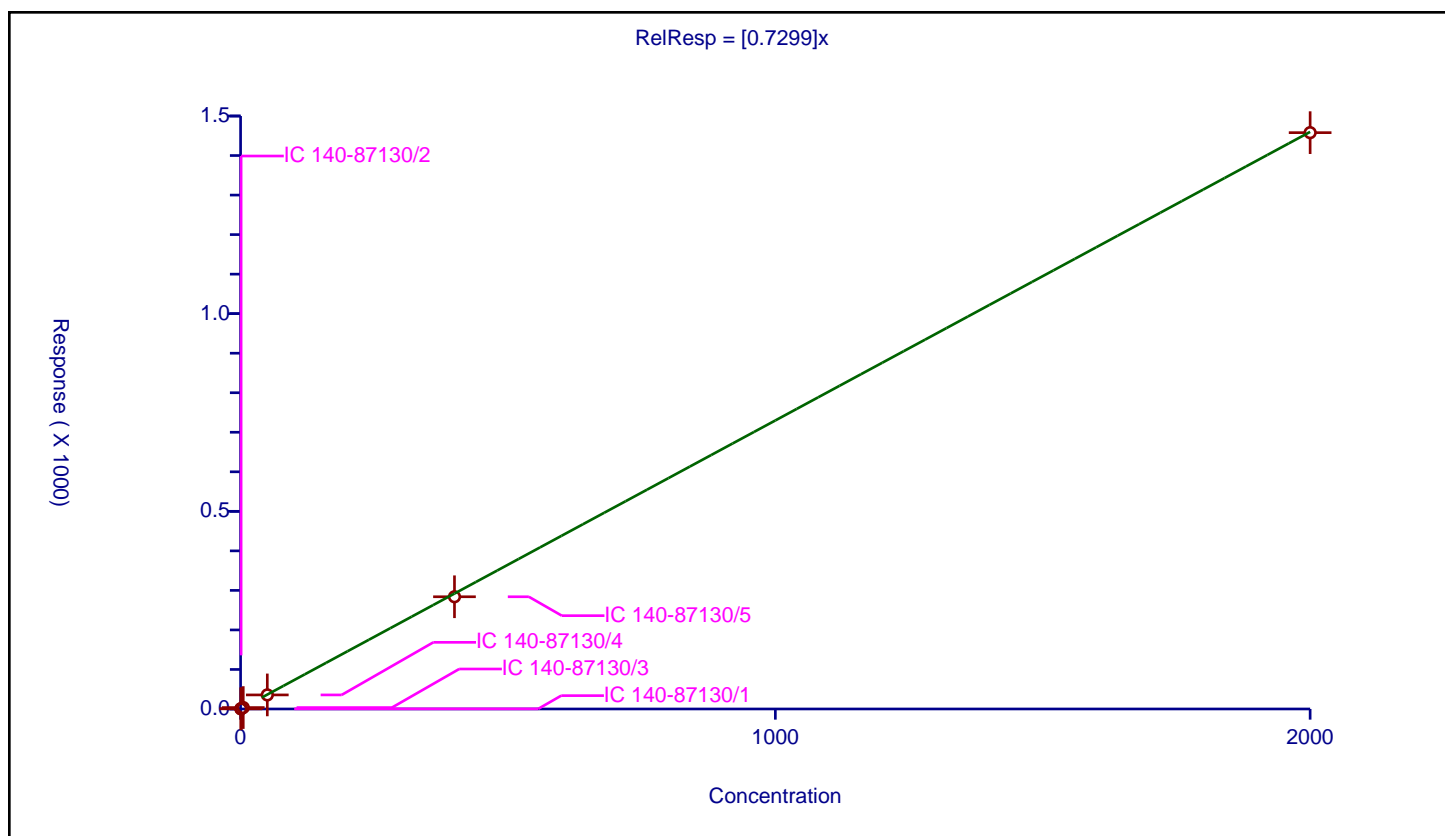
## Curve Coefficients

Intercept: 0  
Slope: 0.7299

## Error Coefficients

Relative Standard Deviation: 4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.362638	100.0	6938320.0	0.725276	Y
2	IC 140-87130/2	1.0	0.788015	100.0	6240748.0	0.788015	Y
3	IC 140-87130/3	5.0	3.578979	100.0	6307301.0	0.715796	Y
4	IC 140-87130/4	50.0	35.589292	100.0	6455349.0	0.711786	Y
5	IC 140-87130/5	400.0	283.911983	100.0	6672003.0	0.70978	Y
6	IC 140-87130/6	2000.0	1457.890993	100.0	6975966.0	0.728945	Y





# Calibration

/ PCB-85

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

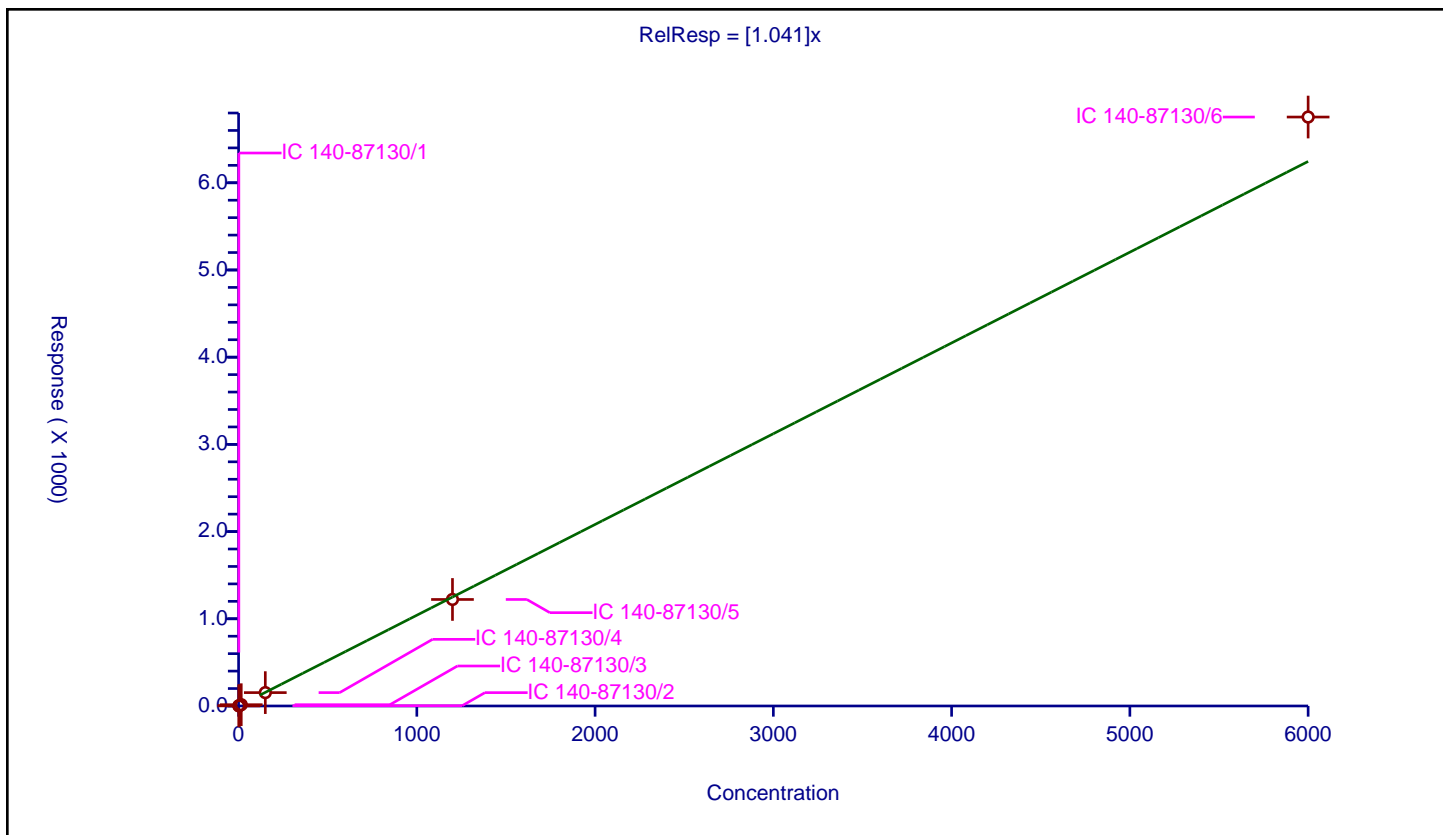
## Curve Coefficients

Intercept: 0  
 Slope: 1.041

## Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



# Calibration

/ PCB-85/116/117

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

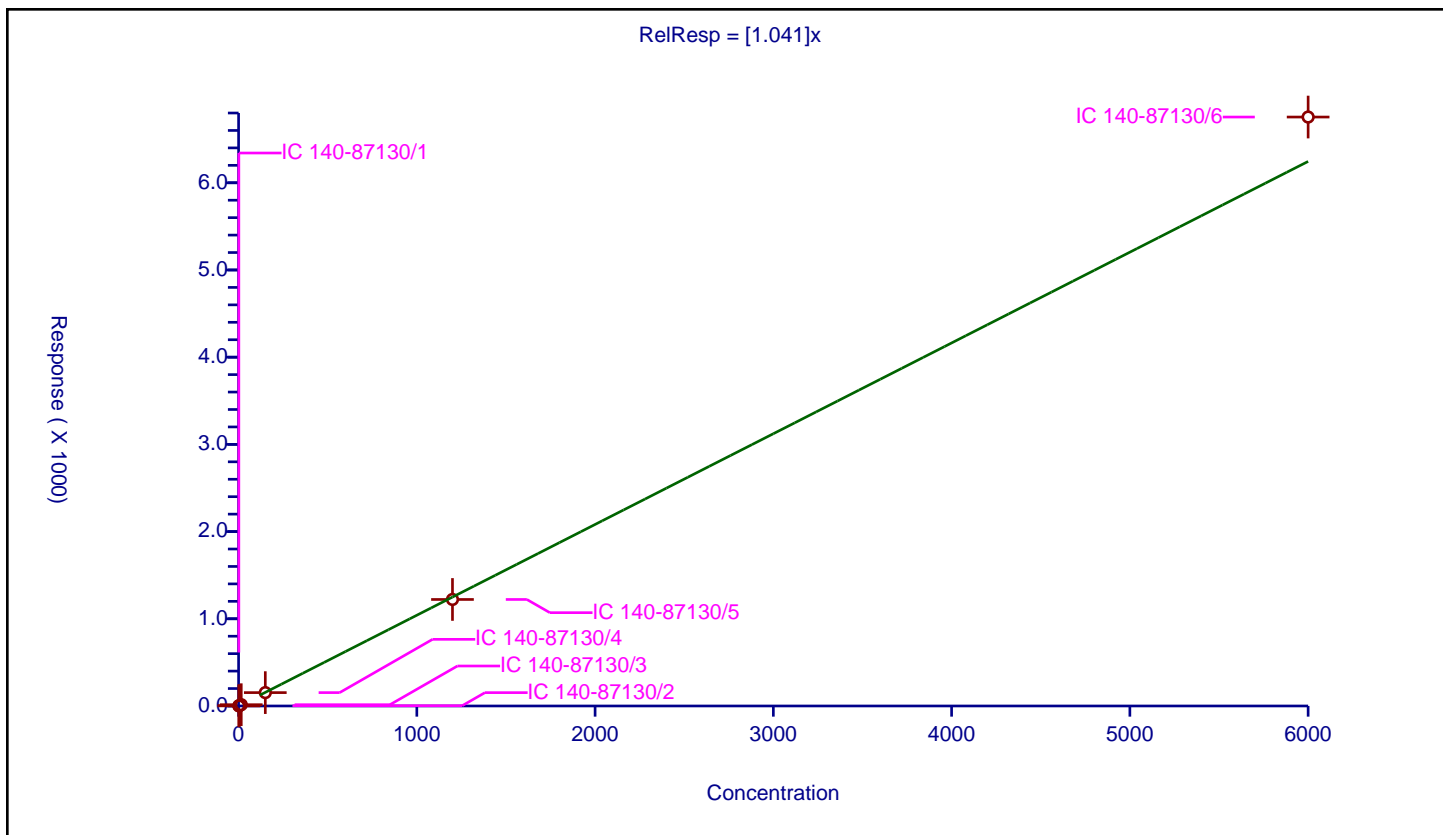
## Curve Coefficients

Intercept: 0  
Slope: 1.041

## Error Coefficients

Relative Standard Deviation: 4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.585528	100.0	6938320.0	1.057019	Y
2	IC 140-87130/2	3.0	3.091152	100.0	6240748.0	1.030384	Y
3	IC 140-87130/3	15.0	14.877029	100.0	6307301.0	0.991802	Y
4	IC 140-87130/4	150.0	153.280512	100.0	6455349.0	1.02187	Y
5	IC 140-87130/5	1200.0	1221.649091	100.0	6672003.0	1.018041	Y
6	IC 140-87130/6	6000.0	6753.818009	100.0	6975966.0	1.125636	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

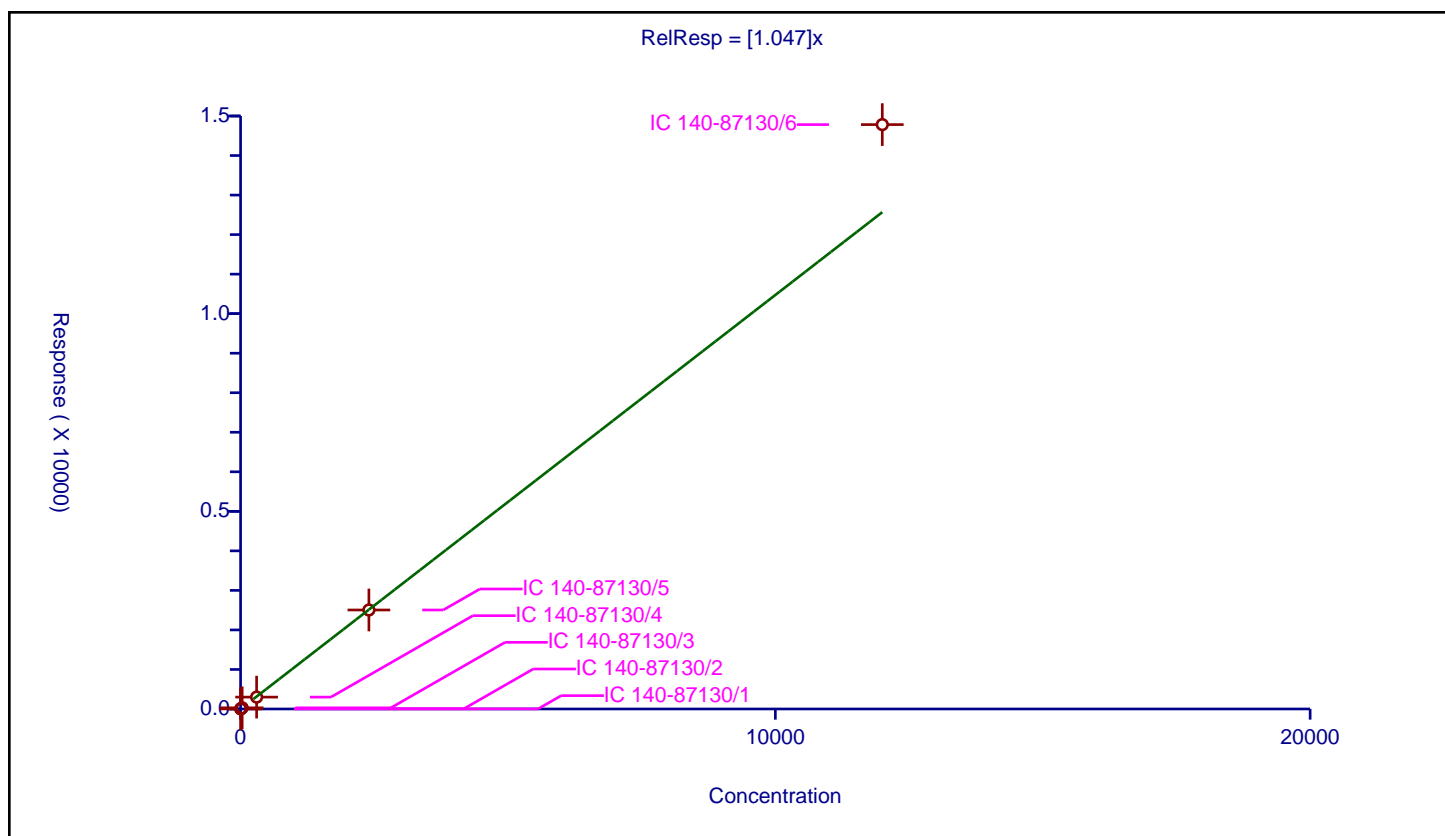
## Curve Coefficients

Intercept: 0  
Slope: 1.047

## Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



# Calibration

/ PCB-86/87/97/109/119/125

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

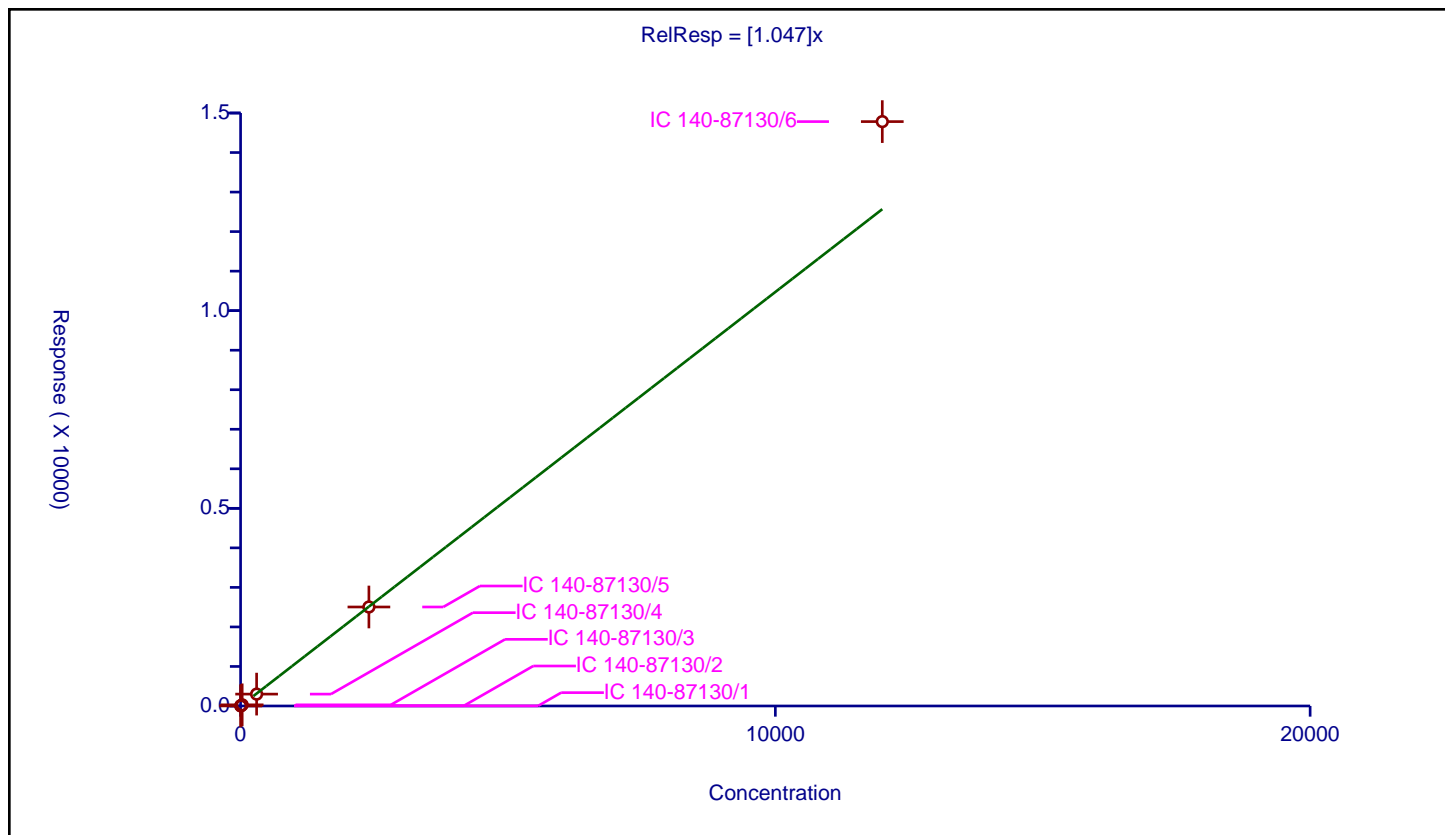
## Curve Coefficients

Intercept: 0  
Slope: 1.047

## Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

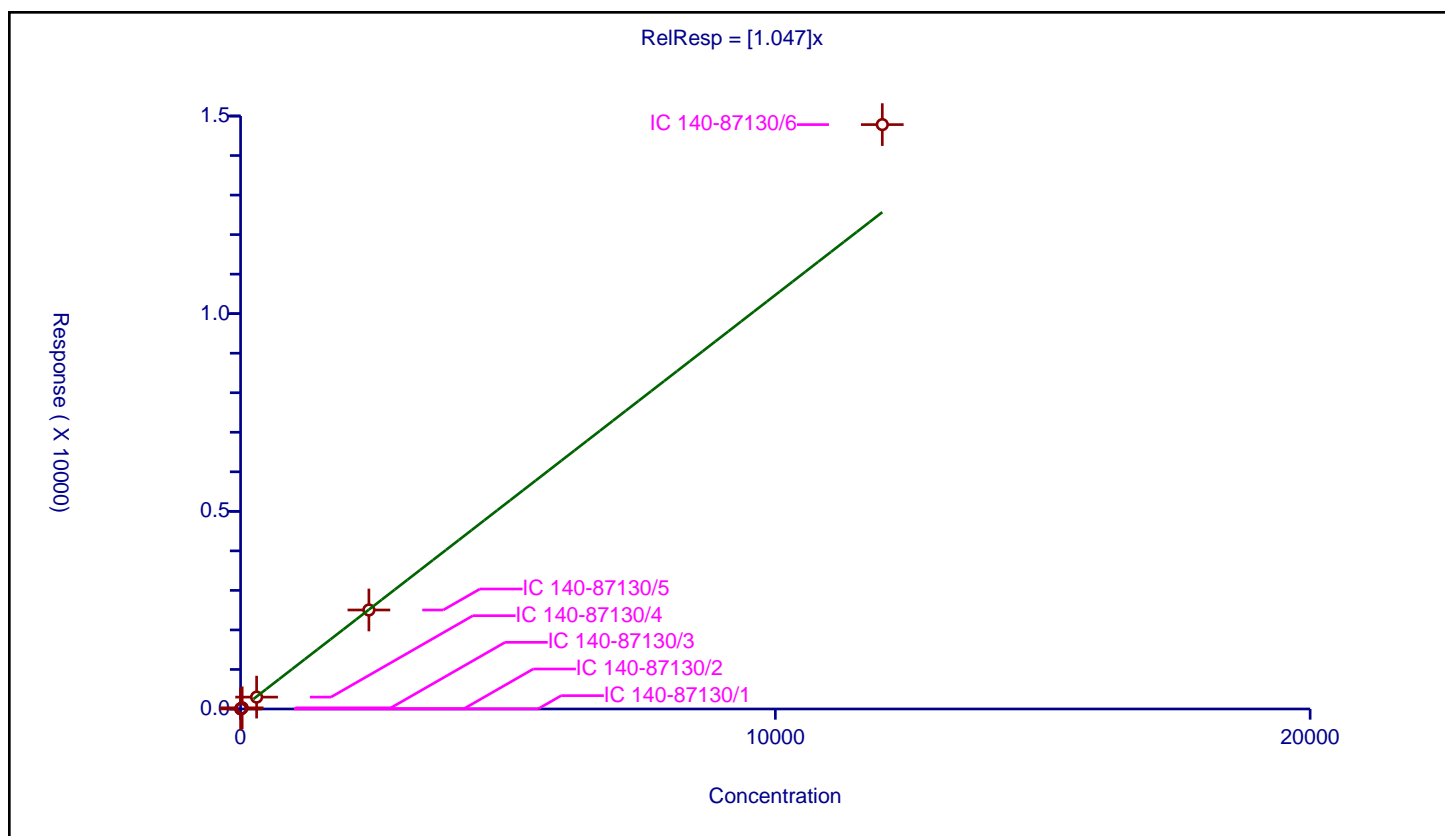
## Curve Coefficients

Intercept: 0  
Slope: 1.047

## Error Coefficients

Relative Standard Deviation: 8.9

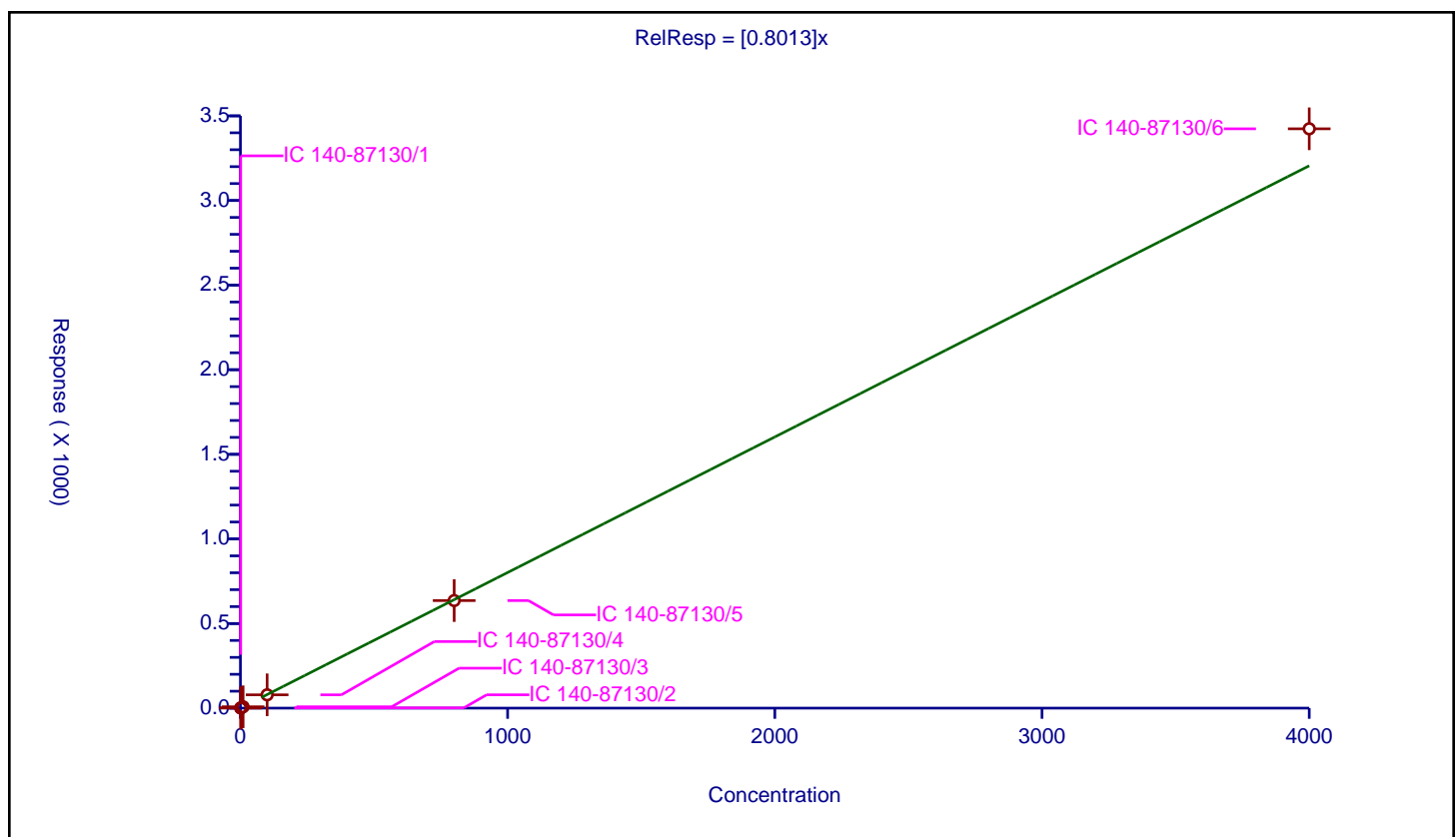
ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



## / PCB-88

Curve Coefficients	
Intercept:	0
Slope:	0.8013
Error Coefficients	
Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.836571	100.0	6938320.0	0.836571	Y
2	IC 140-87130/2	2.0	1.492049	100.0	6240748.0	0.746024	Y
3	IC 140-87130/3	10.0	7.888081	100.0	6307301.0	0.788808	Y
4	IC 140-87130/4	100.0	78.595348	100.0	6455349.0	0.785953	Y
5	IC 140-87130/5	800.0	635.606489	100.0	6672003.0	0.794508	Y
6	IC 140-87130/6	4000.0	3423.621675	100.0	6975966.0	0.855905	Y



# Calibration

/ PCB-88/91

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

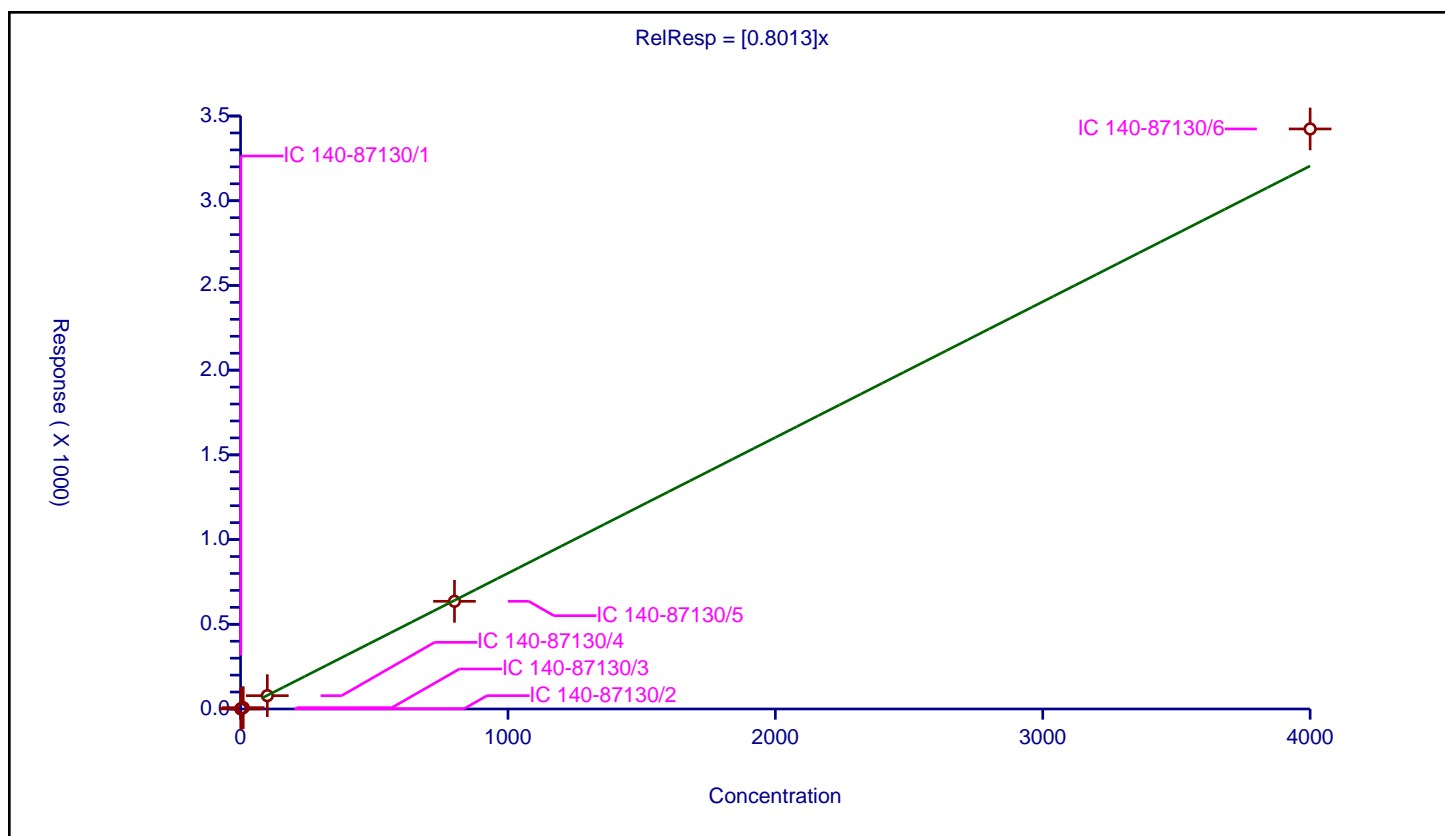
## Curve Coefficients

Intercept: 0  
 Slope: 0.8013

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.836571	100.0	6938320.0	0.836571	Y
2	IC 140-87130/2	2.0	1.492049	100.0	6240748.0	0.746024	Y
3	IC 140-87130/3	10.0	7.888081	100.0	6307301.0	0.788808	Y
4	IC 140-87130/4	100.0	78.595348	100.0	6455349.0	0.785953	Y
5	IC 140-87130/5	800.0	635.606489	100.0	6672003.0	0.794508	Y
6	IC 140-87130/6	4000.0	3423.621675	100.0	6975966.0	0.855905	Y



# Calibration

/ PCB-89

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

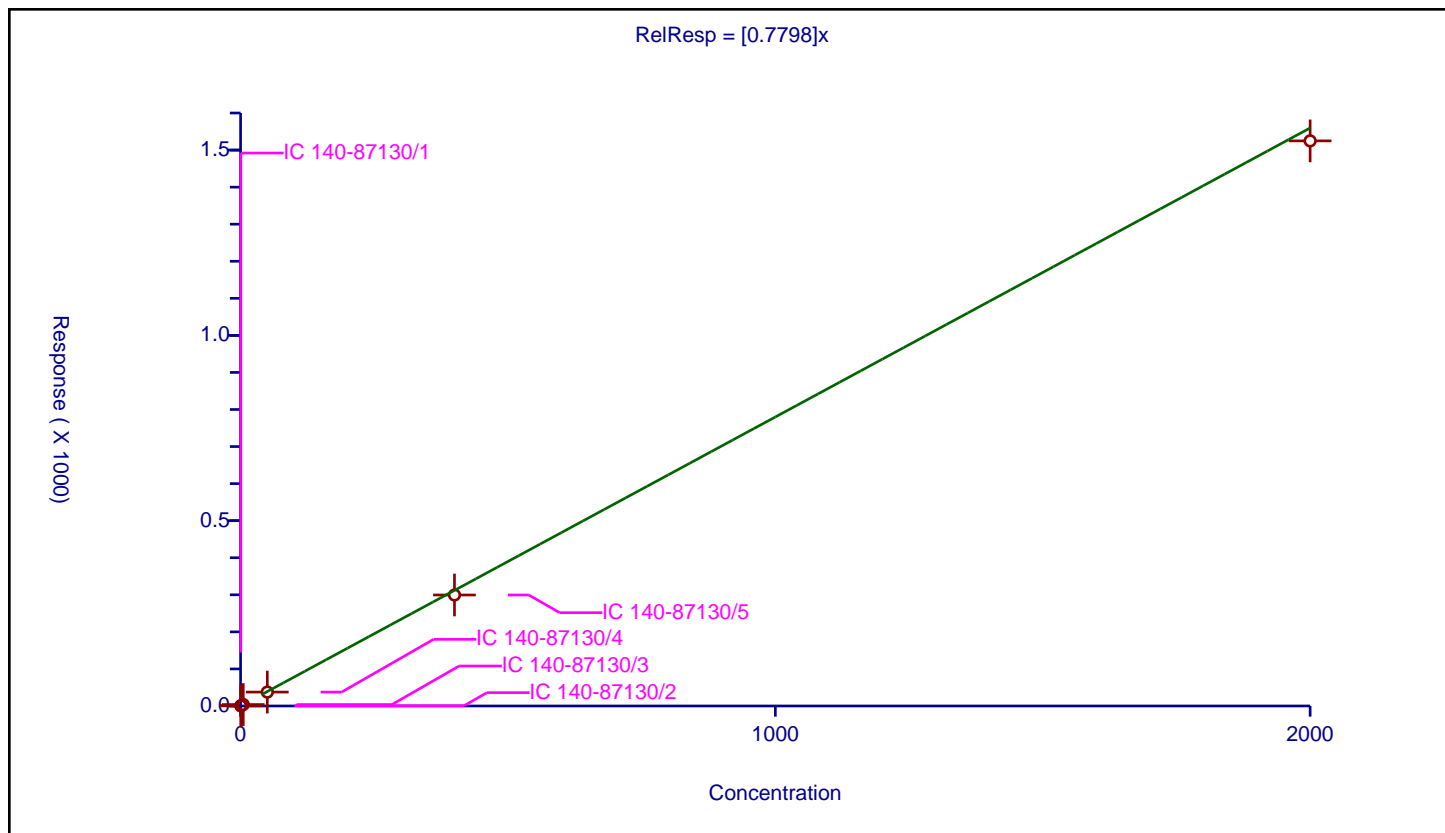
## Curve Coefficients

Intercept: 0  
 Slope: 0.7798

## Error Coefficients

Relative Standard Deviation: 7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.445929	100.0	6938320.0	0.891859	Y
2	IC 140-87130/2	1.0	0.746401	100.0	6240748.0	0.746401	Y
3	IC 140-87130/3	5.0	3.892885	100.0	6307301.0	0.778577	Y
4	IC 140-87130/4	50.0	37.551587	100.0	6455349.0	0.751032	Y
5	IC 140-87130/5	400.0	299.471148	100.0	6672003.0	0.748678	Y
6	IC 140-87130/6	2000.0	1524.826153	100.0	6975966.0	0.762413	Y

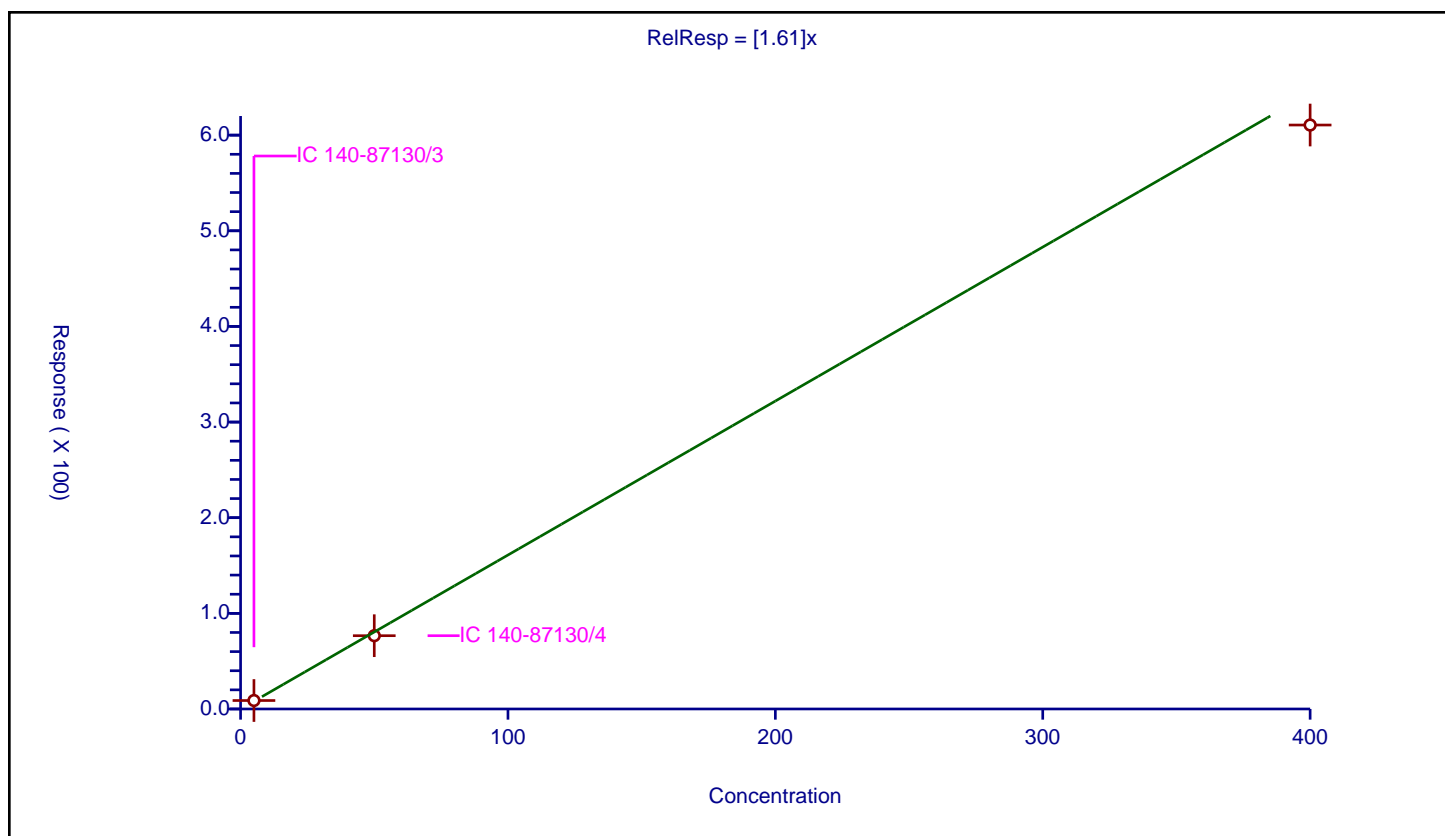




## / PCB-8L

Curve Coefficients	
Intercept:	0
Slope:	1.61
Error Coefficients	
Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	8.853044	100.0	5279032.0	1.770609	Y
2	IC 140-87130/4	50.0	76.624626	100.0	5474214.0	1.532493	Y
3	IC 140-87130/5	400.0	610.583449	100.0	5561618.0	1.526459	Y



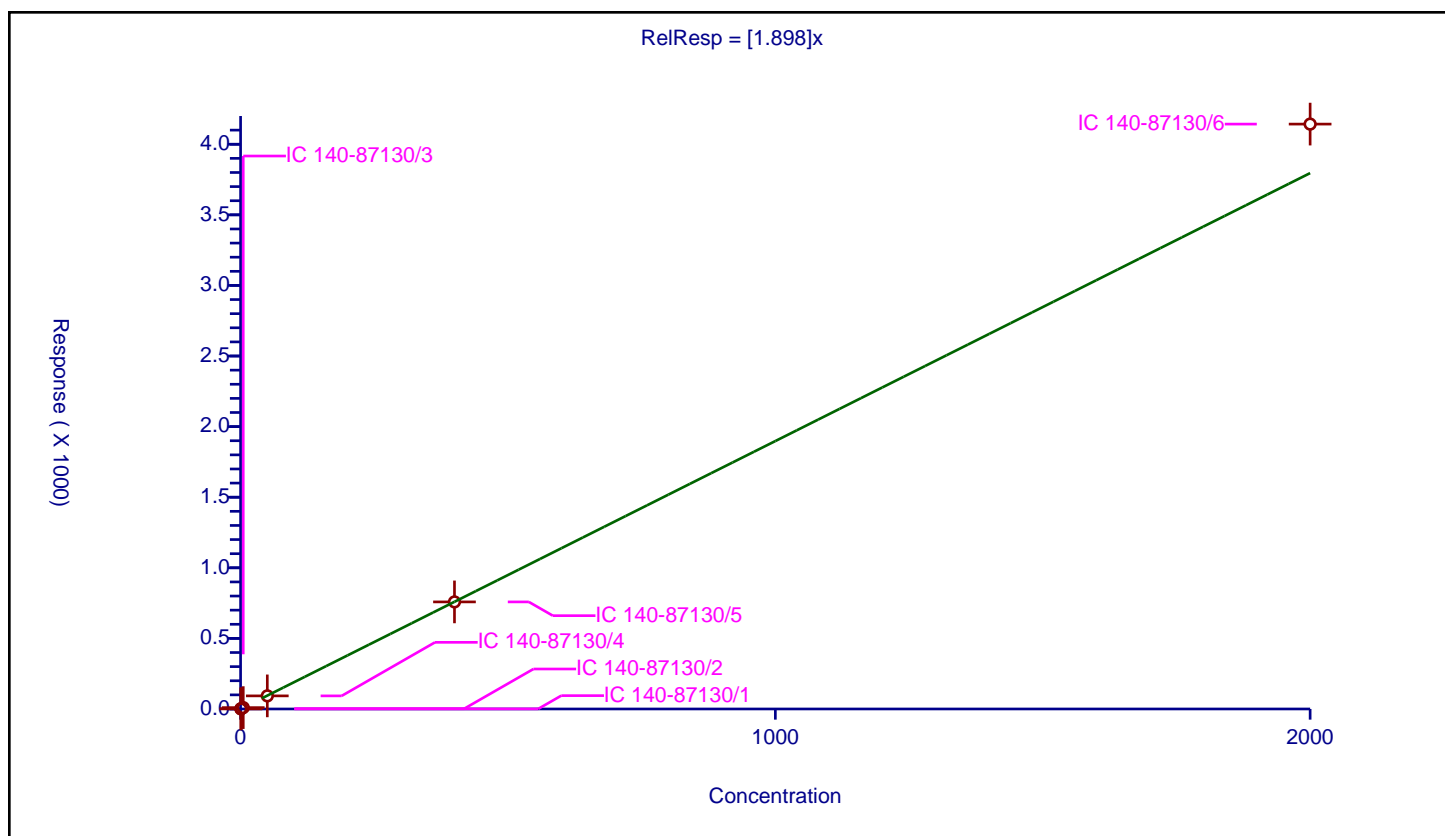
**/ PCB-9**

## Curve Coefficients

### Error Coefficients

Relative Standard Deviation: 5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.87223	100.0	5904521.0	1.74446	Y
2	IC 140-87130/2	1.0	1.869803	100.0	5442766.0	1.869803	Y
3	IC 140-87130/3	5.0	9.73902	100.0	5279032.0	1.947804	Y
4	IC 140-87130/4	50.0	92.863195	100.0	5474214.0	1.857264	Y
5	IC 140-87130/5	400.0	758.446067	100.0	5561618.0	1.896115	Y
6	IC 140-87130/6	2000.0	4142.830439	100.0	5672202.0	2.071415	Y



# Calibration

/ PCB-90

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

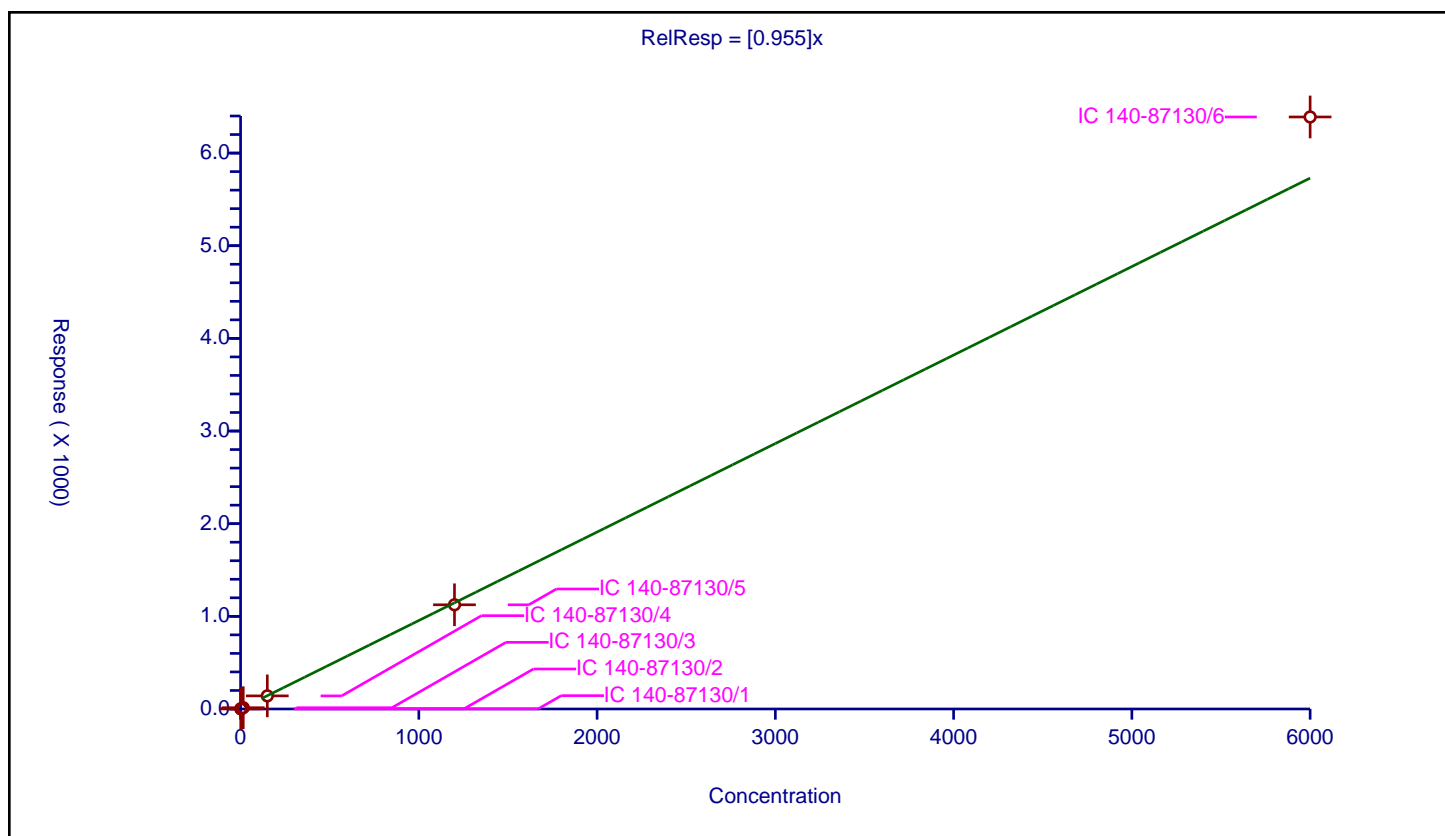
## Curve Coefficients

Intercept: 0  
Slope: 0.955

## Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



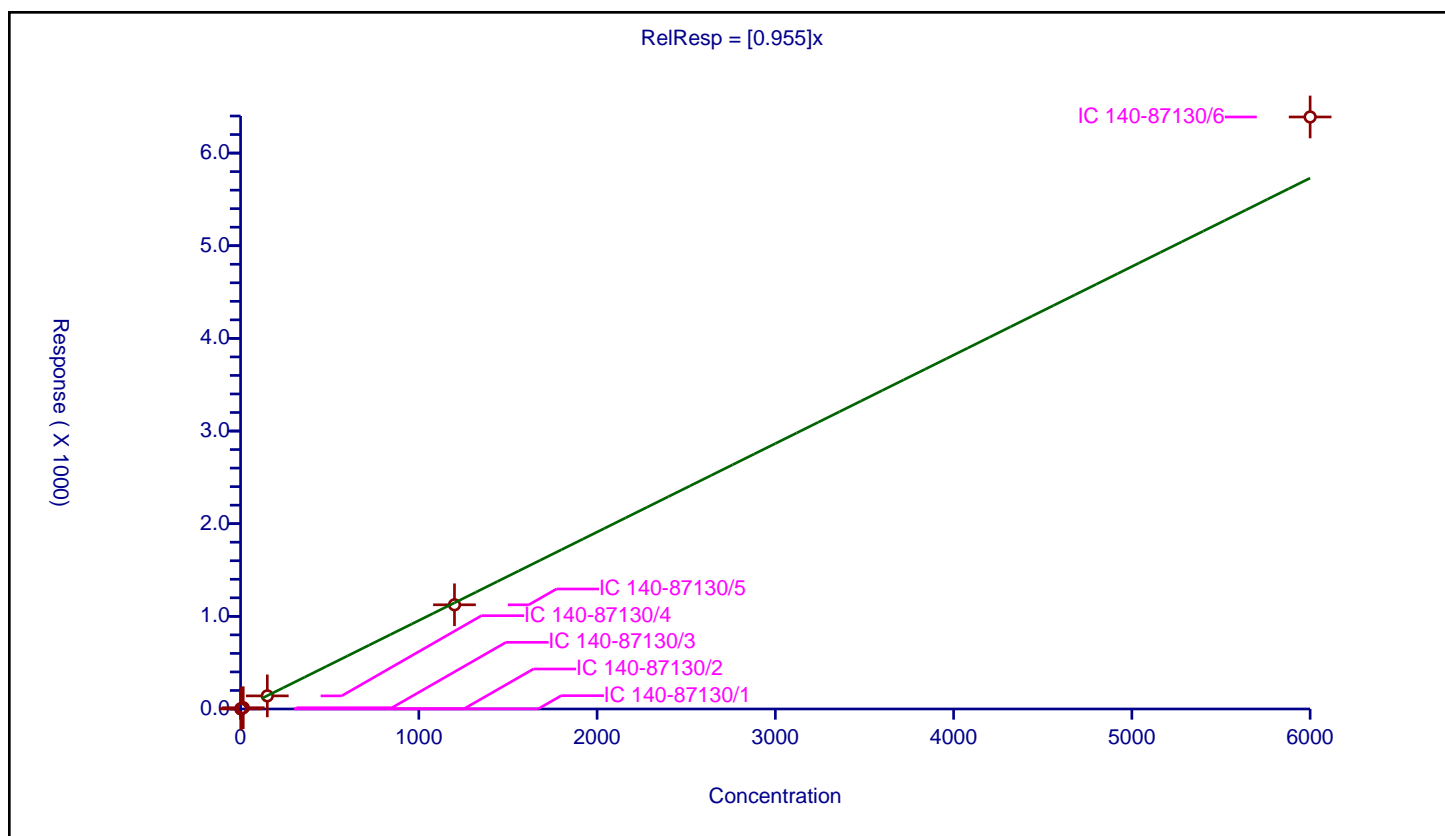
**/ PCB-90/101/113**

## Curve Coefficients

### Error Coefficients

Relative Standard Deviation: 5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.5	1.423053	100.0	6938320.0	0.948702	Y
2	IC 140-87130/2	3.0	2.801892	100.0	6240748.0	0.933964	Y
3	IC 140-87130/3	15.0	13.539722	100.0	6307301.0	0.902648	Y
4	IC 140-87130/4	150.0	141.38193	100.0	6455349.0	0.942546	Y
5	IC 140-87130/5	1200.0	1124.566761	100.0	6672003.0	0.937139	Y
6	IC 140-87130/6	6000.0	6389.746882	100.0	6975966.0	1.064958	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

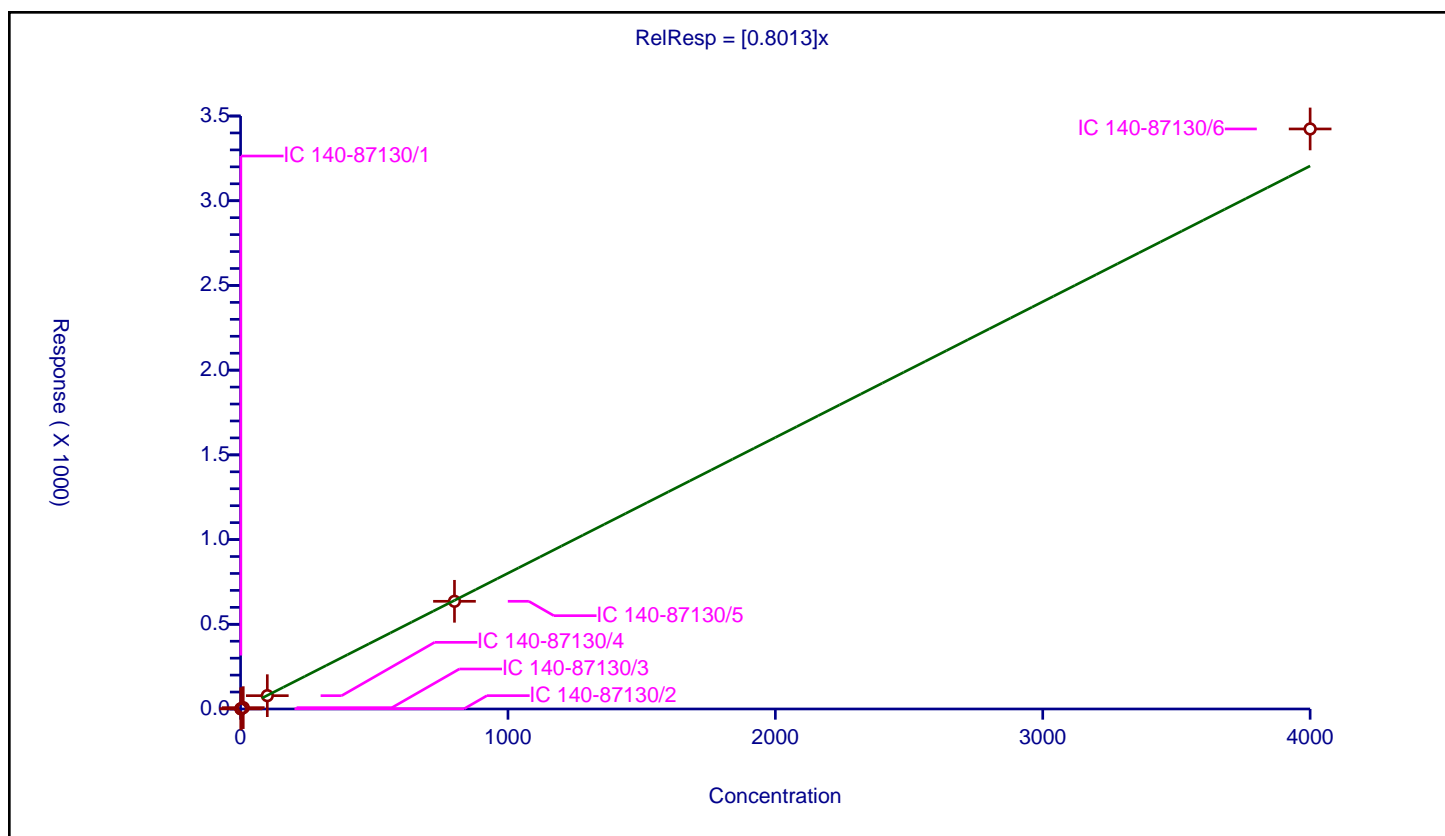
## Curve Coefficients

Intercept: 0  
Slope: 0.8013

## Error Coefficients

Relative Standard Deviation: 4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.836571	100.0	6938320.0	0.836571	Y
2	IC 140-87130/2	2.0	1.492049	100.0	6240748.0	0.746024	Y
3	IC 140-87130/3	10.0	7.888081	100.0	6307301.0	0.788808	Y
4	IC 140-87130/4	100.0	78.595348	100.0	6455349.0	0.785953	Y
5	IC 140-87130/5	800.0	635.606489	100.0	6672003.0	0.794508	Y
6	IC 140-87130/6	4000.0	3423.621675	100.0	6975966.0	0.855905	Y



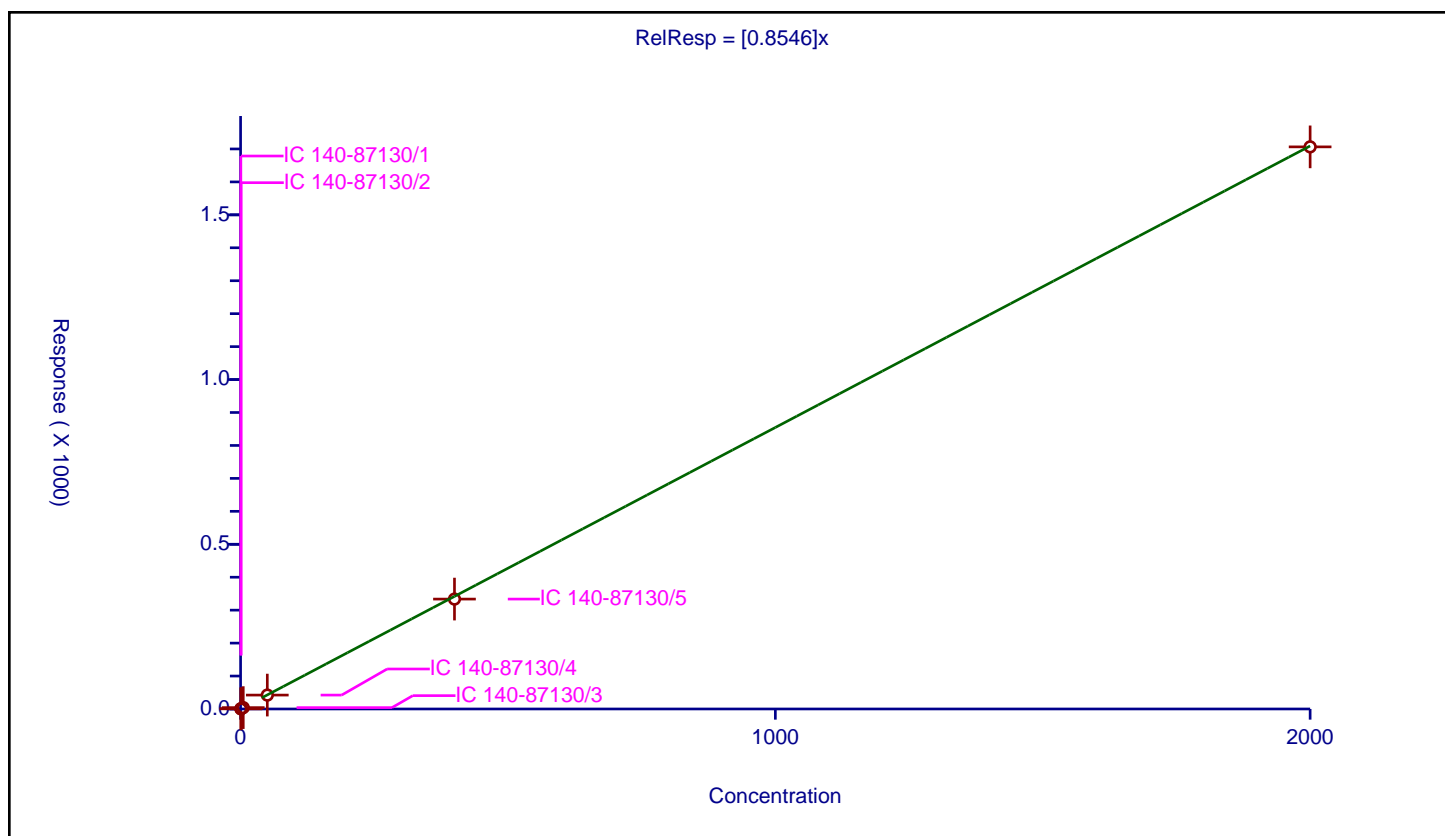
## / PCB-92

## Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.431473	100.0	6938320.0	0.862947	Y
2	IC 140-87130/2	1.0	0.905997	100.0	6240748.0	0.905997	Y
3	IC 140-87130/3	5.0	4.13589	100.0	6307301.0	0.827178	Y
4	IC 140-87130/4	50.0	42.202954	100.0	6455349.0	0.844059	Y
5	IC 140-87130/5	400.0	333.604152	100.0	6672003.0	0.83401	Y
6	IC 140-87130/6	2000.0	1706.355808	100.0	6975966.0	0.853178	Y



# Calibration

/ PCB-93

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

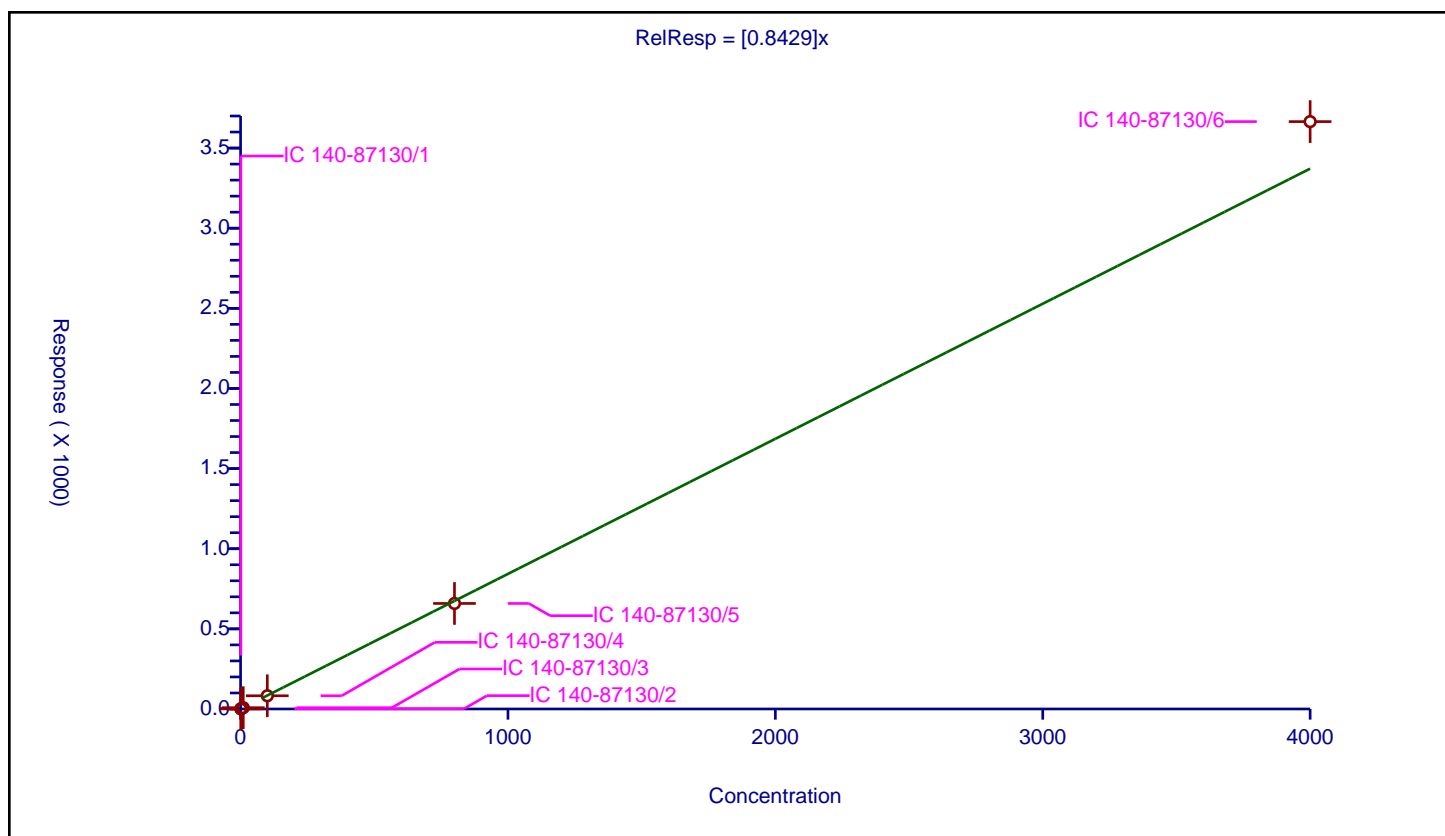
## Curve Coefficients

Intercept: 0  
 Slope: 0.8429

## Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.852714	100.0	6938320.0	0.852714	Y
2	IC 140-87130/2	2.0	1.667508	100.0	6240748.0	0.833754	Y
3	IC 140-87130/3	10.0	8.061721	100.0	6307301.0	0.806172	Y
4	IC 140-87130/4	100.0	82.513091	100.0	6455349.0	0.825131	Y
5	IC 140-87130/5	800.0	658.540756	100.0	6672003.0	0.823176	Y
6	IC 140-87130/6	4000.0	3665.032714	100.0	6975966.0	0.916258	Y



# Calibration

/ PCB-93/100

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

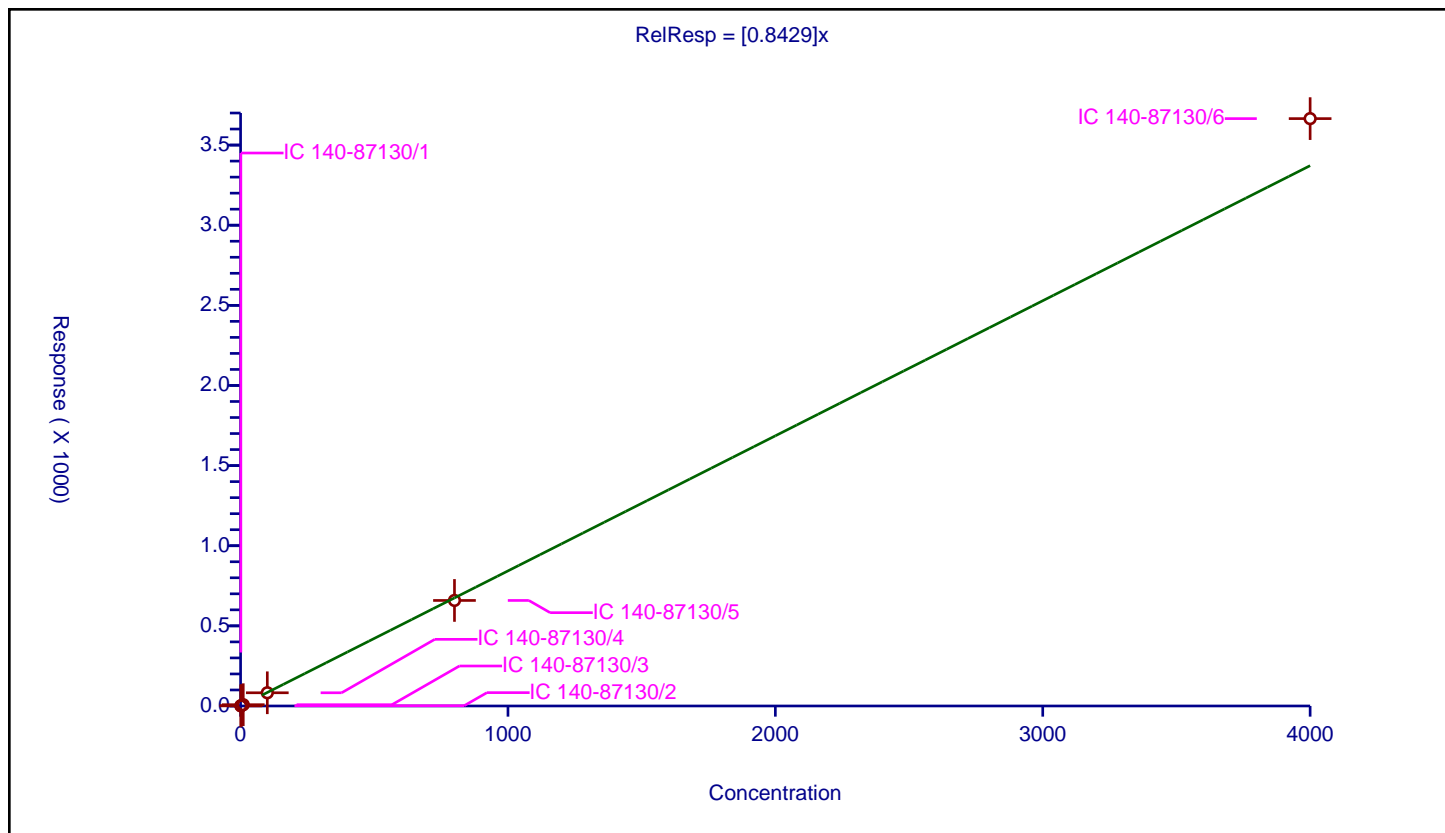
## Curve Coefficients

Intercept: 0  
Slope: 0.8429

## Error Coefficients

Relative Standard Deviation: 4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.852714	100.0	6938320.0	0.852714	Y
2	IC 140-87130/2	2.0	1.667508	100.0	6240748.0	0.833754	Y
3	IC 140-87130/3	10.0	8.061721	100.0	6307301.0	0.806172	Y
4	IC 140-87130/4	100.0	82.513091	100.0	6455349.0	0.825131	Y
5	IC 140-87130/5	800.0	658.540756	100.0	6672003.0	0.823176	Y
6	IC 140-87130/6	4000.0	3665.032714	100.0	6975966.0	0.916258	Y





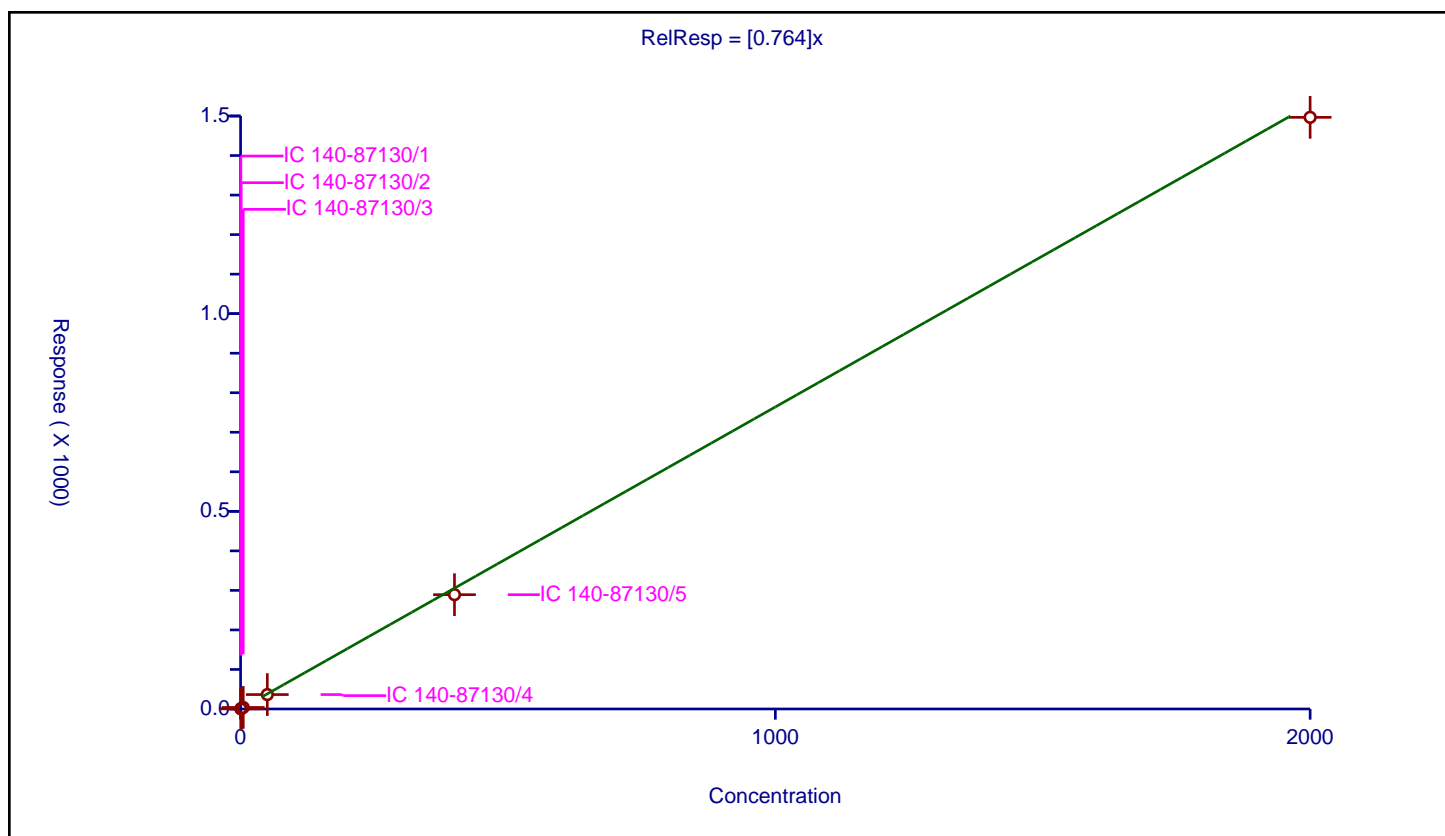
## / PCB-94

## Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.399996	100.0	6938320.0	0.799992	Y
2	IC 140-87130/2	1.0	0.811922	100.0	6240748.0	0.811922	Y
3	IC 140-87130/3	5.0	3.858291	100.0	6307301.0	0.771658	Y
4	IC 140-87130/4	50.0	36.464829	100.0	6455349.0	0.729297	Y
5	IC 140-87130/5	400.0	289.173836	100.0	6672003.0	0.722935	Y
6	IC 140-87130/6	2000.0	1496.625872	100.0	6975966.0	0.748313	Y



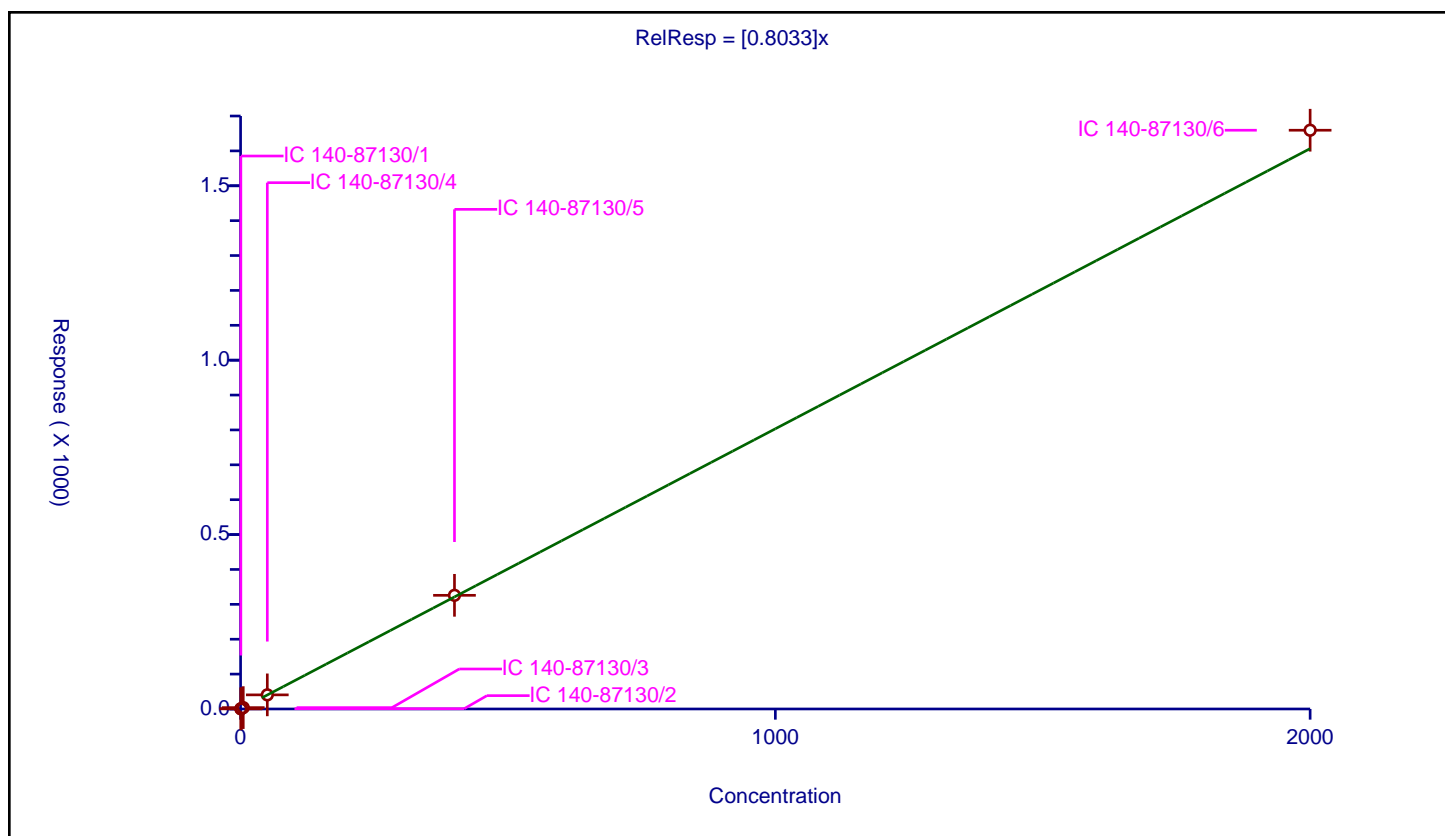
## / PCB-95

## Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.404839	100.0	6938320.0	0.809677	Y
2	IC 140-87130/2	1.0	0.771622	100.0	6240748.0	0.771622	Y
3	IC 140-87130/3	5.0	3.921138	100.0	6307301.0	0.784228	Y
4	IC 140-87130/4	50.0	40.490003	100.0	6455349.0	0.8098	Y
5	IC 140-87130/5	400.0	325.890921	100.0	6672003.0	0.814727	Y
6	IC 140-87130/6	2000.0	1659.27592	100.0	6975966.0	0.829638	Y



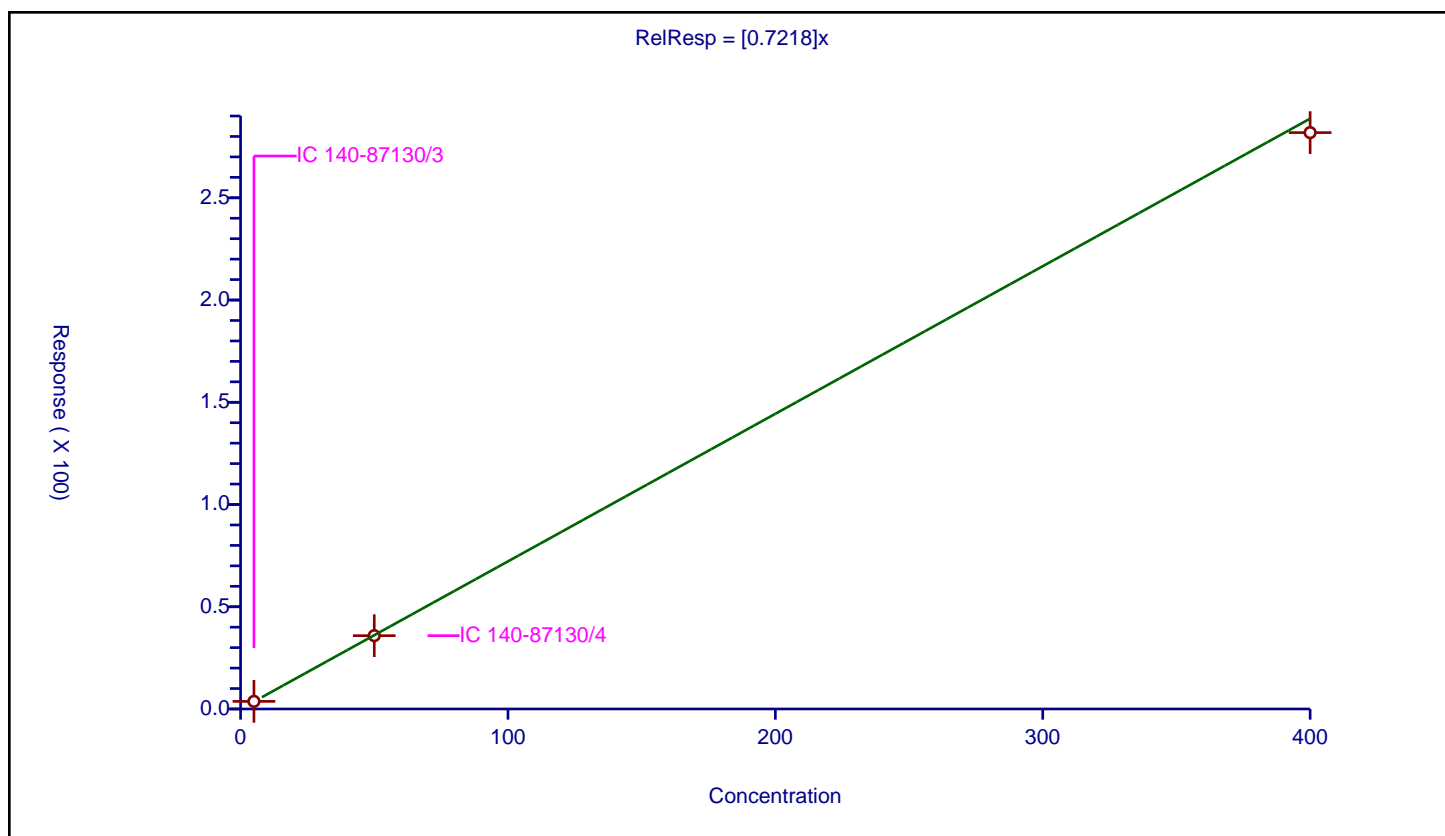
**/ PCB-95L**

## Curve Coefficients

### Error Coefficients

**Relative Standard Deviation:** 2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/3	5.0	3.717501	100.0	6307301.0	0.7435	Y
2	IC 140-87130/4	50.0	35.86119	100.0	6455349.0	0.717224	Y
3	IC 140-87130/5	400.0	281.878485	100.0	6672003.0	0.704696	Y



# Calibration

/ PCB-96

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

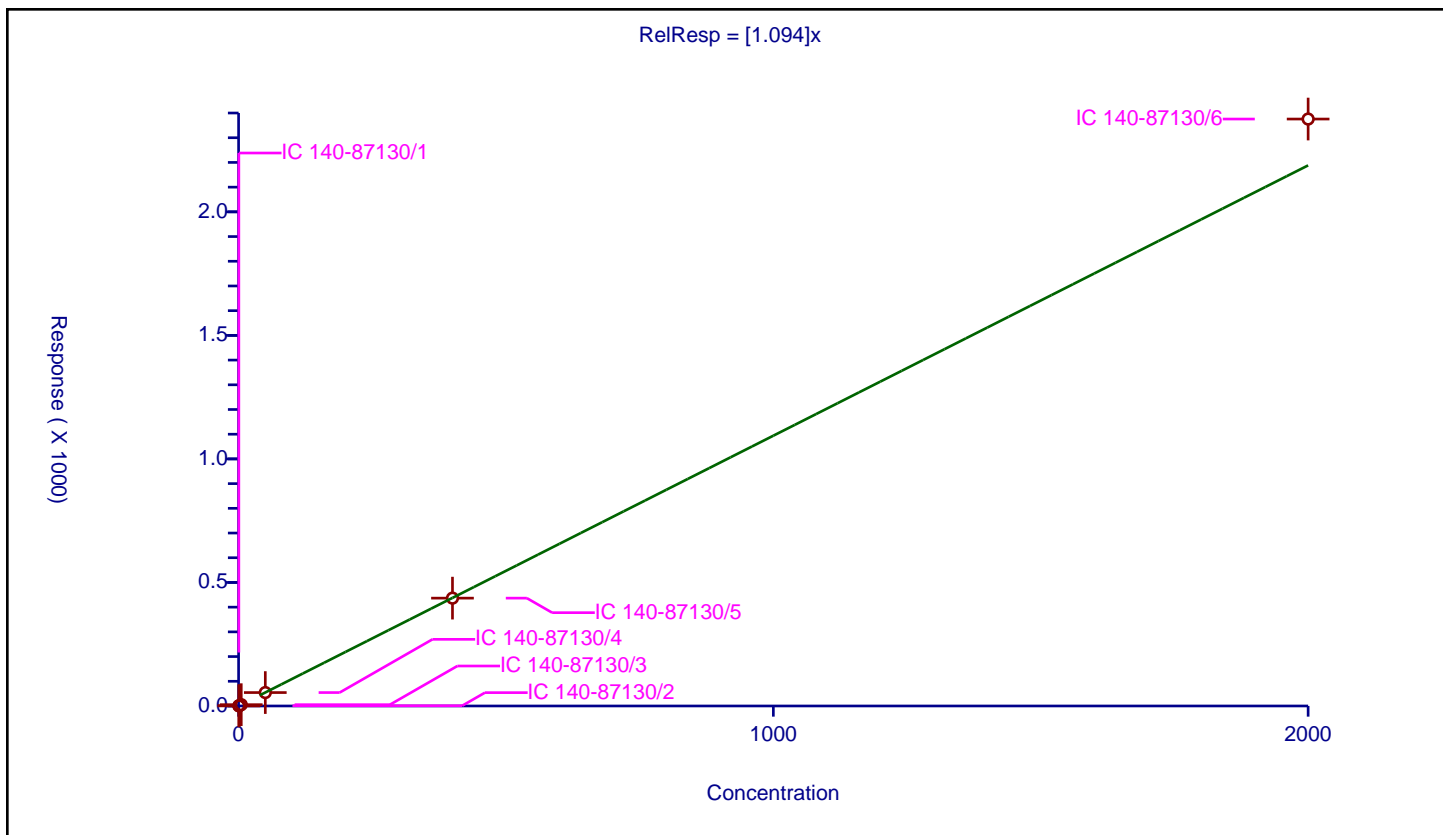
## Curve Coefficients

Intercept: 0  
Slope: 1.094

## Error Coefficients

Relative Standard Deviation: 5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	0.5	0.554745	100.0	6938320.0	1.10949	Y
2	IC 140-87130/2	1.0	1.015583	100.0	6240748.0	1.015583	Y
3	IC 140-87130/3	5.0	5.369507	100.0	6307301.0	1.073901	Y
4	IC 140-87130/4	50.0	54.300519	100.0	6455349.0	1.08601	Y
5	IC 140-87130/5	400.0	436.521941	100.0	6672003.0	1.091305	Y
6	IC 140-87130/6	2000.0	2375.560489	100.0	6975966.0	1.18778	Y



Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

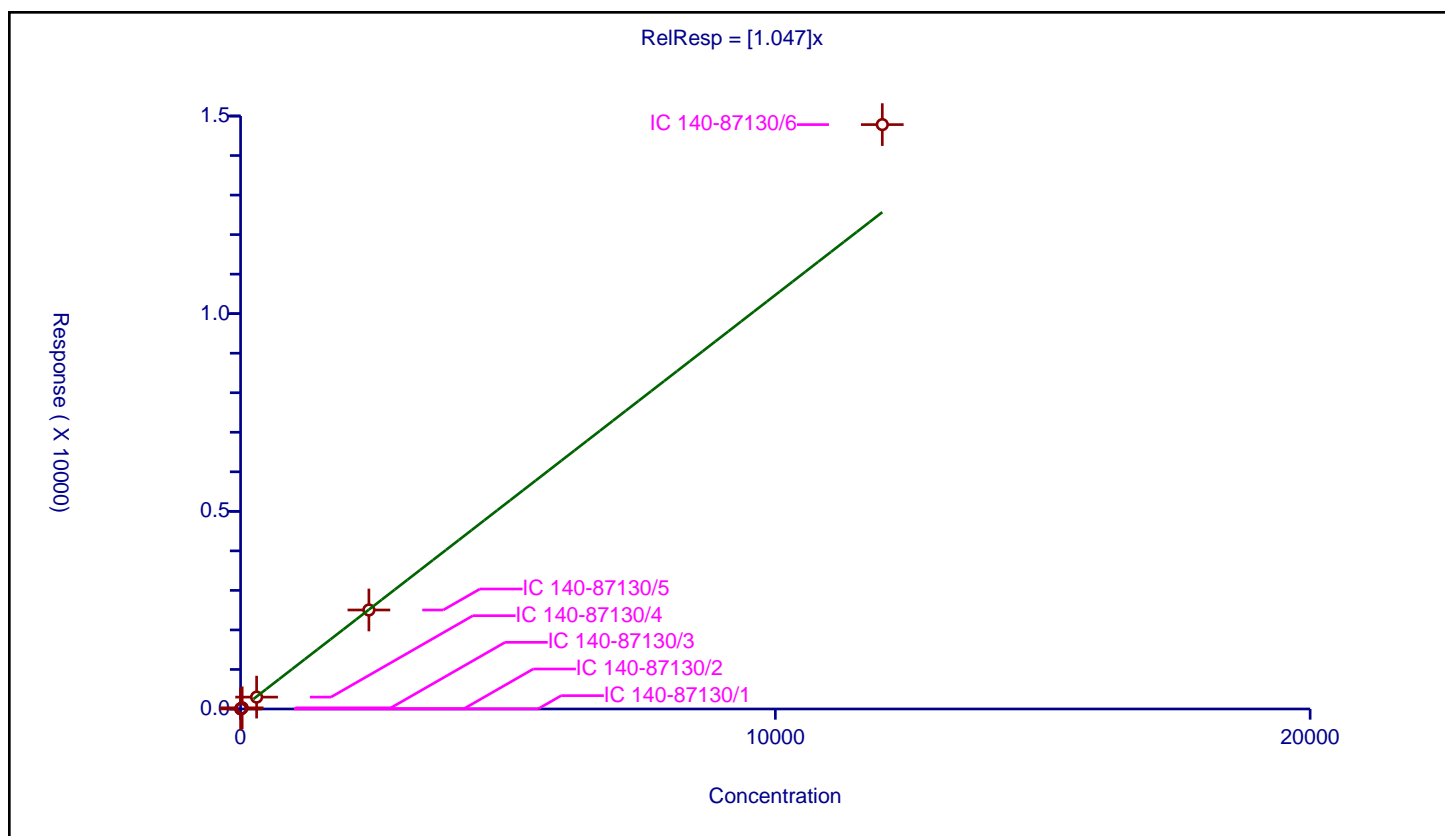
## Curve Coefficients

Intercept: 0  
Slope: 1.047

## Error Coefficients

Relative Standard Deviation: 8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	3.0	3.046213	100.0	6938320.0	1.015404	Y
2	IC 140-87130/2	6.0	6.09177	100.0	6240748.0	1.015295	Y
3	IC 140-87130/3	30.0	29.280004	100.0	6307301.0	0.976	Y
4	IC 140-87130/4	300.0	300.513187	100.0	6455349.0	1.001711	Y
5	IC 140-87130/5	2400.0	2504.032507	100.0	6672003.0	1.043347	Y
6	IC 140-87130/6	12000.0	14782.642777	100.0	6975966.0	1.231887	Y



# Calibration

/ PCB-98

Curve Type: Average  
Weighting: Conc\_Sq  
Origin: Force  
Dependency: Response  
Calib Mode: IsoDil  
Response Base: AREA  
RF Rounding: 0

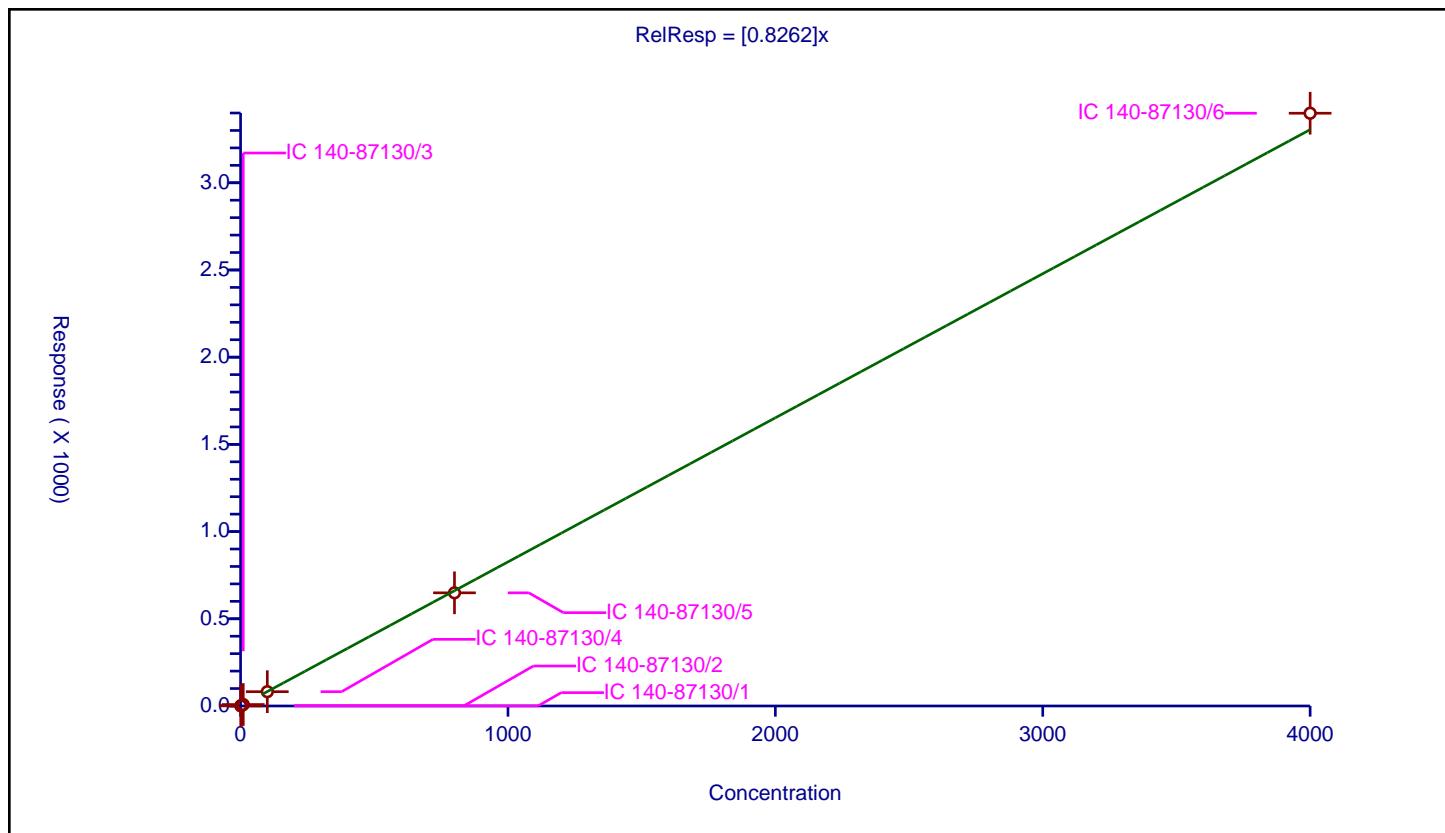
## Curve Coefficients

Intercept: 0  
Slope: 0.8262

## Error Coefficients

Relative Standard Deviation: 1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.825603	100.0	6938320.0	0.825603	Y
2	IC 140-87130/2	2.0	1.631167	100.0	6240748.0	0.815583	Y
3	IC 140-87130/3	10.0	8.347532	100.0	6307301.0	0.834753	Y
4	IC 140-87130/4	100.0	82.021111	100.0	6455349.0	0.820211	Y
5	IC 140-87130/5	800.0	648.883896	100.0	6672003.0	0.811105	Y
6	IC 140-87130/6	4000.0	3398.773116	100.0	6975966.0	0.849693	Y



# Calibration

/ PCB-98/102

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

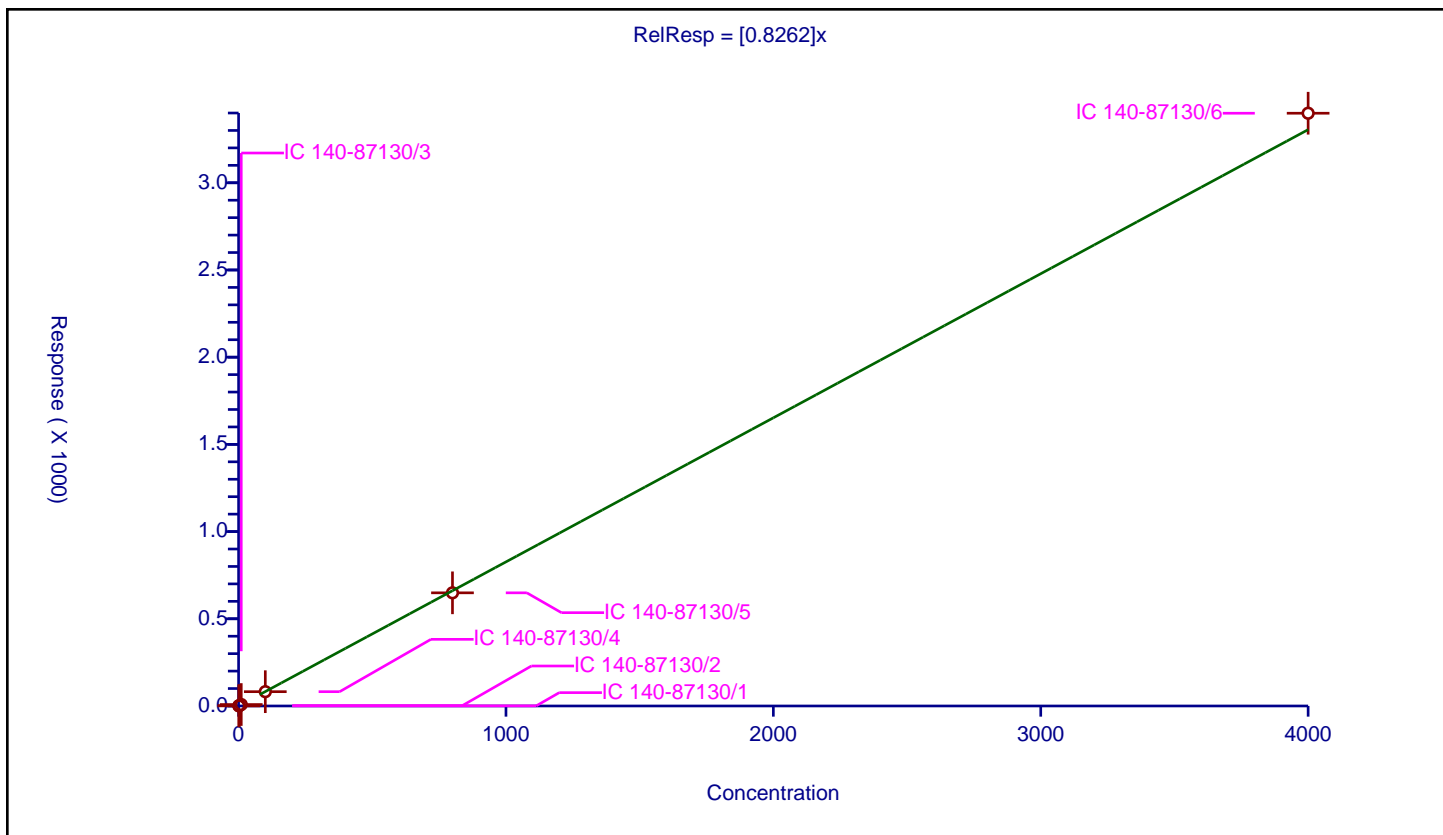
## Curve Coefficients

Intercept: 0  
 Slope: 0.8262

## Error Coefficients

Relative Standard Deviation: 1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.825603	100.0	6938320.0	0.825603	Y
2	IC 140-87130/2	2.0	1.631167	100.0	6240748.0	0.815583	Y
3	IC 140-87130/3	10.0	8.347532	100.0	6307301.0	0.834753	Y
4	IC 140-87130/4	100.0	82.021111	100.0	6455349.0	0.820211	Y
5	IC 140-87130/5	800.0	648.883896	100.0	6672003.0	0.811105	Y
6	IC 140-87130/6	4000.0	3398.773116	100.0	6975966.0	0.849693	Y



# Calibration

/ PCB-99

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

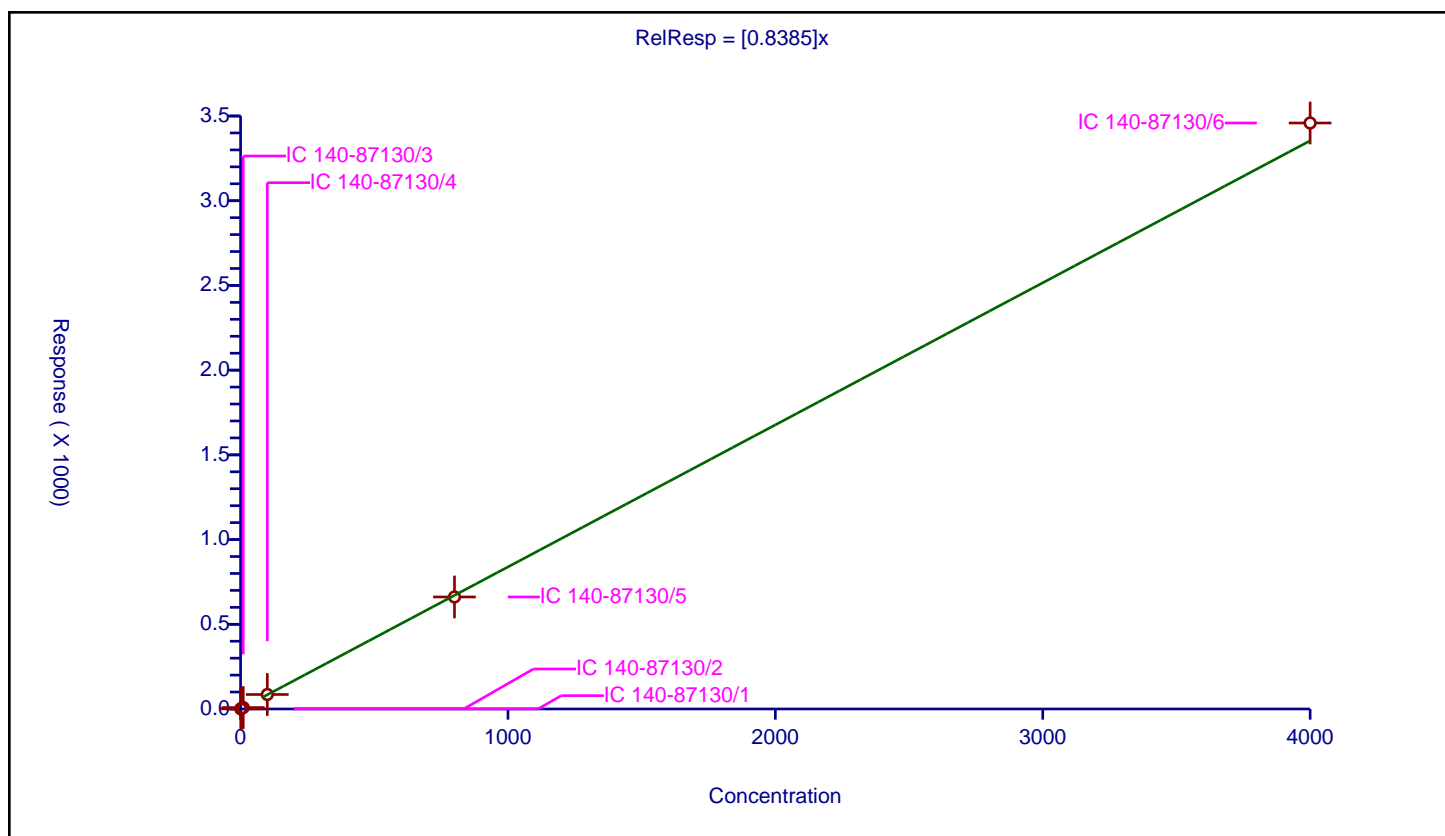
## Curve Coefficients

Intercept: 0  
 Slope: 0.8385

## Error Coefficients

Relative Standard Deviation: 2.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 140-87130/1	1.0	0.833516	100.0	6938320.0	0.833516	Y
2	IC 140-87130/2	2.0	1.623187	100.0	6240748.0	0.811593	Y
3	IC 140-87130/3	10.0	8.385393	100.0	6307301.0	0.838539	Y
4	IC 140-87130/4	100.0	85.61991	100.0	6455349.0	0.856199	Y
5	IC 140-87130/5	800.0	661.180518	100.0	6672003.0	0.826476	Y
6	IC 140-87130/6	4000.0	3458.757009	100.0	6975966.0	0.864689	Y





FORM VI  
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID (1): WDMCCV 140-88205/1 Instrument ID (1): D2D  
GC Column (1): SPB-Octyl ID: 0.25 (mm) Date Analyzed (1): 06/27/2024 22:00

ANALYTE	RT	RESOLUTION (%)
PCB-34	21.71	7
PCB-187	41.08	4

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: SPB-Octyl ( 0.25 mm)  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL

PCB-34 - PCB-23, Signal: 2

## Isotopic Dilution PCB Method

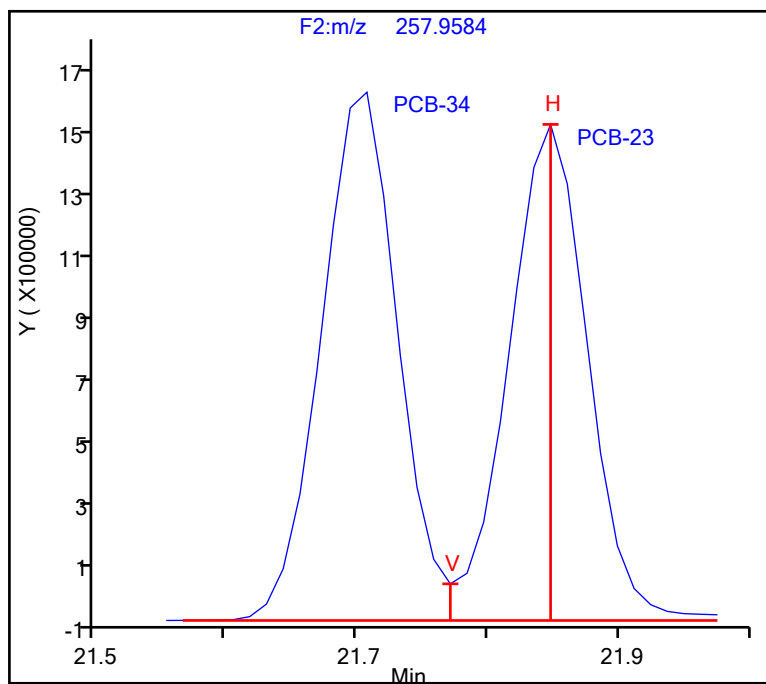
$$\%R = (V / H) * 100$$

V (Valley Height) = 113316

H (Peak Height) = 1534463

$$\%R = 7 \leq 40$$

Passed



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System  
Injection Vol: 1.0 ul  
Method: PCBs\_D2D

ALS Bottle#: 0 Worklist Smp#: 1  
Column: SPB-Octyl ( 0.25 mm)  
Limit Group: HR - EPA\_23 PCB ICAL

PCB-187 - PCB-182, Signal: 2

## Isotopic Dilution PCB Method

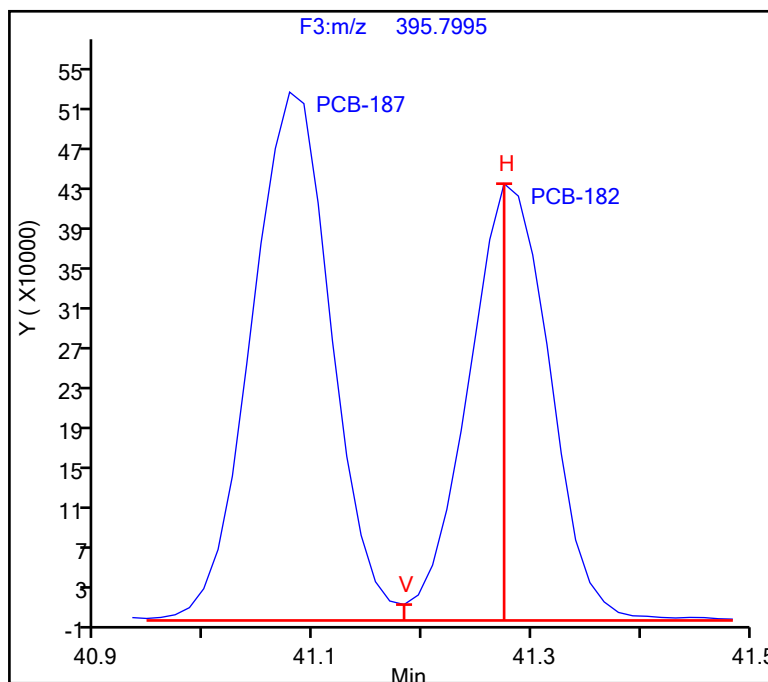
$$\%R = (V / H) * 100$$

V (Valley Height) = 15819

H (Peak Height) = 435390

$$\%R = 4 \leq 40$$

Passed



FORM VI  
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID (1): WDMCCV 140-88219/1 Instrument ID (1): D2D  
GC Column (1): SPB-Octyl ID: 0.25 (mm) Date Analyzed (1): 06/28/2024 09:53

ANALYTE	RT	RESOLUTION (%)
PCB-34	21.67	7
PCB-187	41.07	4

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System  
Injection Vol: 1.0 ul  
Method: PCBs\_D2D

ALS Bottle#: 0 Worklist Smp#: 1  
Column: SPB-Octyl ( 0.25 mm)  
Limit Group: HR - EPA\_23 PCB ICAL

PCB-34 - PCB-23, Signal: 2

## Isotopic Dilution PCB Method

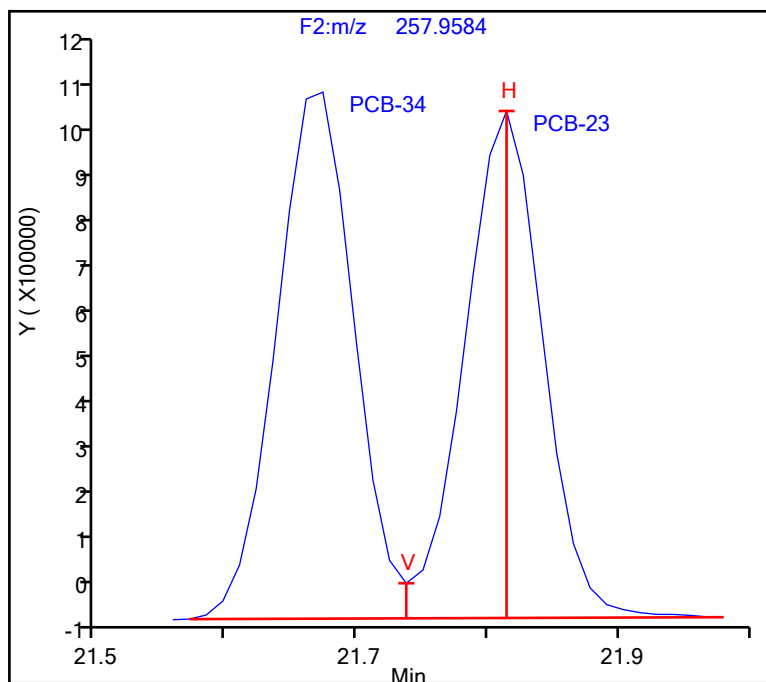
$$\%R = (V / H) * 100$$

V (Valley Height) = 70803

H (Peak Height) = 1021872

$$\%R = 7 \leq 40$$

Passed



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: SPB-Octyl ( 0.25 mm)  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL

PCB-187 - PCB-182, Signal: 2

## Isotopic Dilution PCB Method

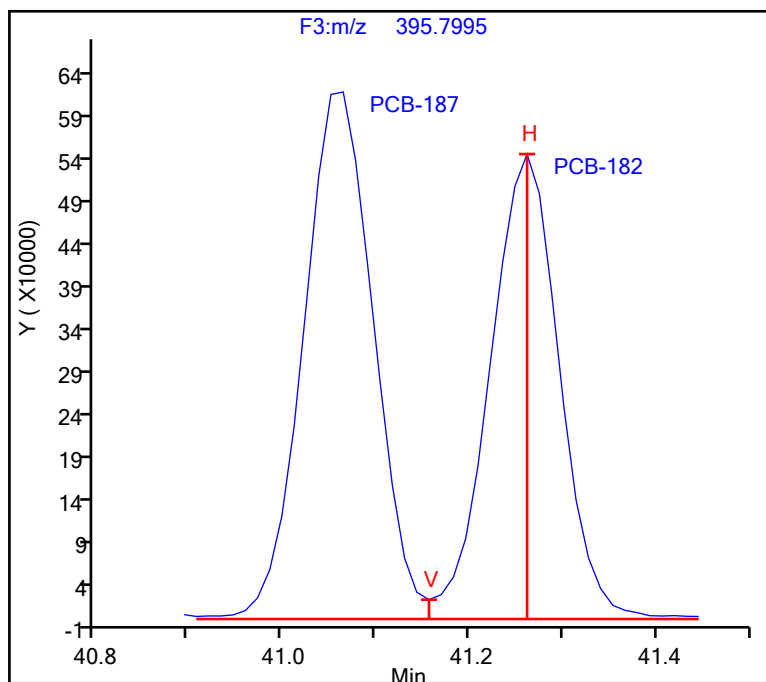
$$\%R = (V / H) * 100$$

V (Valley Height) = 22668

H (Peak Height) = 544300

$$\%R = 4 \leq 40$$

Passed



FORM VI  
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID (1): WDMCCV 140-88242/1 Instrument ID (1): D2D  
GC Column (1): SPB-Octyl ID: 0.25 (mm) Date Analyzed (1): 06/28/2024 23:29

ANALYTE	RT	RESOLUTION (%)
PCB-34	21.67	8
PCB-187	41.04	3

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Column: SPB-Octyl ( 0.25 mm)  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL

PCB-34 - PCB-23, Signal: 2

## Isotopic Dilution PCB Method

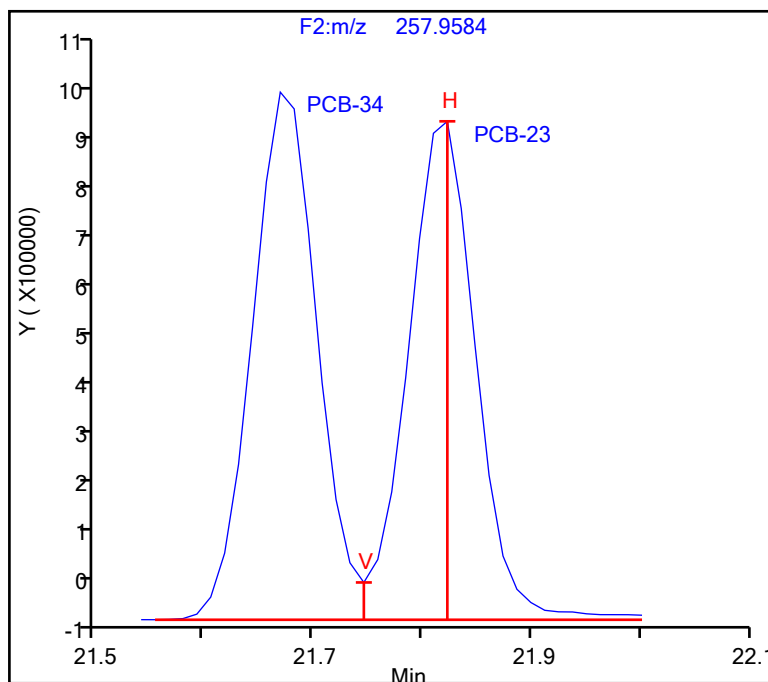
$$\%R = (V / H) * 100$$

V (Valley Height) = 67199

H (Peak Height) = 897618

$$\%R = 8 \leq 40$$

Passed





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System  
Injection Vol: 1.0 ul  
Method: PCBs\_D2D

ALS Bottle#: 0 Worklist Smp#: 1  
Column: SPB-Octyl ( 0.25 mm)  
Limit Group: HR - EPA\_23 PCB ICAL

PCB-187 - PCB-182, Signal: 2

## Isotopic Dilution PCB Method

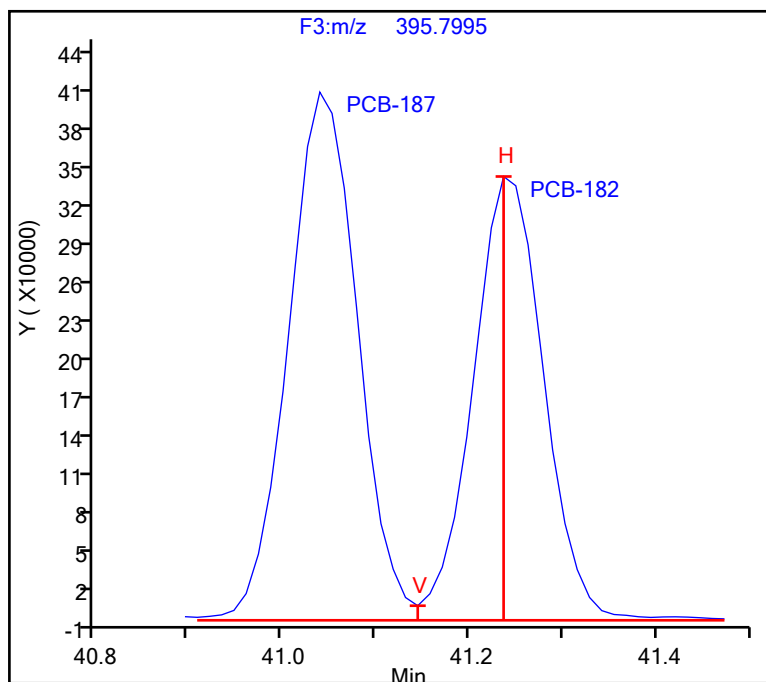
$$\%R = (V / H) * 100$$

V (Valley Height) = 11026

H (Peak Height) = 336243

$$\%R = 3 \leq 40$$

Passed



FORM VI  
RESOLUTION CHECK SUMMARY

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID (1): WDMCCV 140-88362/1 Instrument ID (1): D2D  
GC Column (1): SPB-Octyl ID: 0.25 (mm) Date Analyzed (1): 07/02/2024 17:01

ANALYTE	RT	RESOLUTION (%)
PCB-34	21.66	9
PCB-187	41.04	3

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System  
Injection Vol: 1.0 ul  
Method: PCBs\_D2D

ALS Bottle#: 0 Worklist Smp#: 1  
Column: SPB-Octyl ( 0.25 mm)  
Limit Group: HR - EPA\_23 PCB ICAL

PCB-34 - PCB-23, Signal: 2

## Isotopic Dilution PCB Method

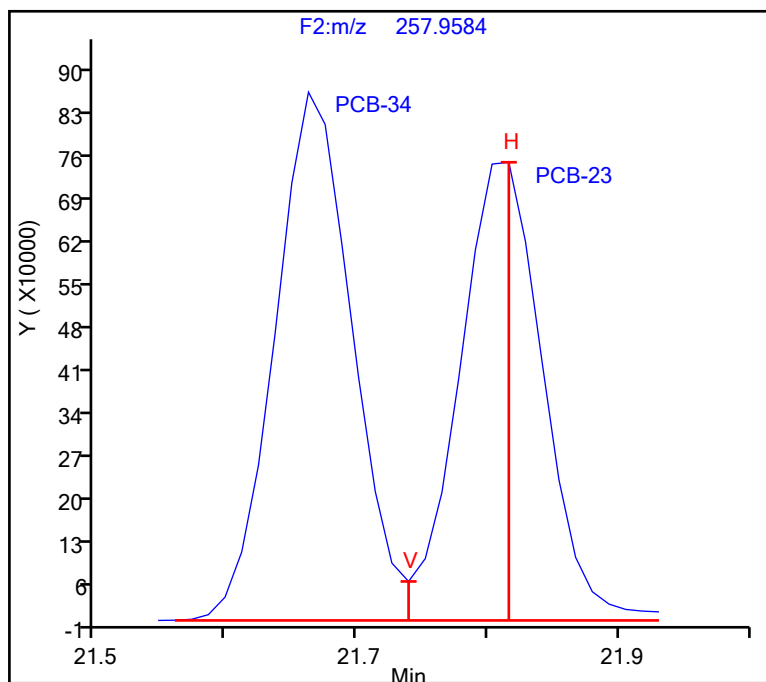
$$\%R = (V / H) * 100$$

V (Valley Height) = 63392

H (Peak Height) = 745432

$$\%R = 9 \leq 40$$

Passed



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System  
Injection Vol: 1.0 ul  
Method: PCBs\_D2D

ALS Bottle#: 0 Worklist Smp#: 1  
Column: SPB-Octyl ( 0.25 mm)  
Limit Group: HR - EPA\_23 PCB ICAL

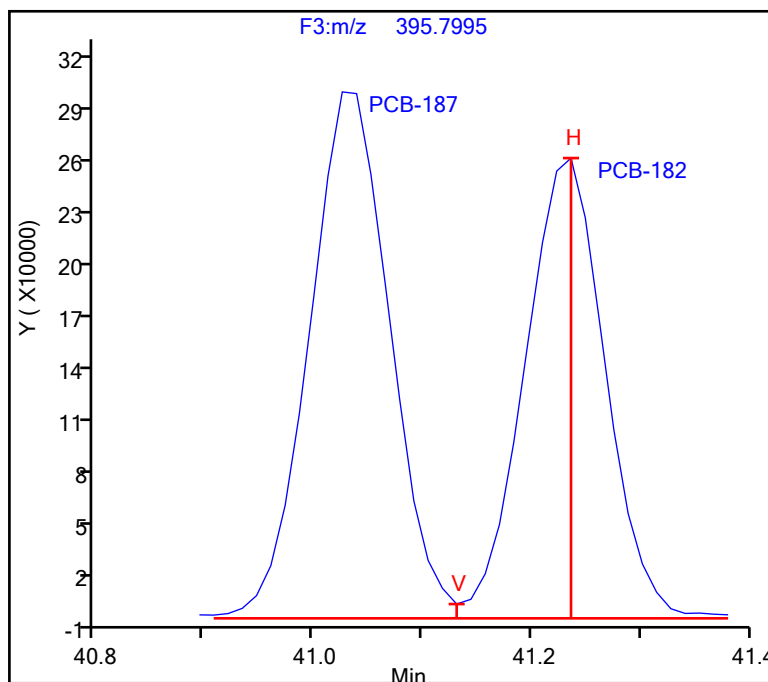
PCB-187 - PCB-182, Signal: 2

## Isotopic Dilution PCB Method

$$\%R = (V / H) * 100$$

V (Valley Height) = 8128  
H (Peak Height) = 262224

$\%R = 3 \leq 40$   
Passed



FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1L	Ave	1.611	1.602		99.4	100	-0.6	
PCB-3L	Ave	1.589	1.572		98.9	100	-1.1	
PCB-4L	Ave	0.6475	0.6470		99.9	100	-0.0	
PCB-19L	Ave	0.6285	0.6153		97.9	100	-2.1	
PCB-15L	Ave	1.079	1.068		99.0	100	-1.0	
PCB-54L	Ave	0.5562	0.5760		104	100	3.5	
PCB-104L	Ave	1.216	1.240		102	100	2.0	
PCB-37L	Ave	0.8749	0.8784		100	100	0.4	
PCB-155L	Ave	1.085	1.107		102	100	2.0	
PCB-81L	Ave	1.247	1.239		99.4	100	-0.6	
PCB-77L	Ave	1.321	1.319		99.8	100	-0.2	
PCB-123L	Ave	0.9731	0.9662		99.3	100	-0.7	
PCB-118L	Ave	1.010	1.010		100	100	0.0	
PCB-114L	Ave	0.9949	0.9887		99.4	100	-0.6	
PCB-188L	Ave	1.313	1.305		99.3	100	-0.7	
PCB-105L	Ave	0.9514	0.9507		99.9	100	-0.0	
PCB-126L	Ave	0.9439	0.9575		101	100	1.4	
PCB-202L	Ave	0.9818	0.9717		99.0	100	-1.0	
PCB-167L	Ave	1.257	1.287		102	100	2.3	
PCB-156L	Ave	1.211	1.226		203	200	1.3	
PCB-156L/157L	Ave	1.211	1.226		203	200	1.3	
PCB-157L	Ave	1.211	1.226		203	200	1.3	
PCB-170L	Ave	0.8362	0.8245		98.6	100	-1.4	
PCB-169L	Ave	1.244	1.250		101	100	0.5	
PCB-208L	Ave	0.9576	0.9509		99.3	100	-0.7	
PCB-189L	Ave	1.441	1.459		101	100	1.2	
PCB-205L	Ave	1.179	1.195		101	100	1.4	
PCB-206L	Ave	0.6947	0.7121		103	100	2.5	
PCB-209L	Ave	0.6669	0.6837		103	100	2.5	

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-1	AveID	1.219	1.149		47.1	50.0	94	70-130
PCB-2	AveID	1.181	1.115		47.2	50.0	94	70-130
PCB-3	AveID	1.221	1.170		47.9	50.0	96	70-130
PCB-4	AveID	1.282	1.154		45.0	50.0	90	70-130
PCB-10	AveID	1.315	1.428		54.3	50.0	109	70-130
PCB-9	AveID	1.422	1.369		48.1	50.0	96	70-130
PCB-7	AveID	1.413	1.412		49.9	50.0	100	70-130
PCB-6	AveID	1.542	1.393		45.2	50.0	90	70-130
PCB-5	AveID	1.339	1.380		51.5	50.0	103	70-130
PCB-8	AveID	1.589	1.481		46.6	50.0	93	70-130
PCB-19	AveID	1.281	1.218		47.5	50.0	95	70-130
PCB-14	AveID	1.402	1.395		49.8	50.0	99	70-130
PCB-18	AveID	1.765	1.608		91.1	100	91	70-130
PCB-18/30	AveID	1.765	1.608		91.1	100	91	70-130
PCB-30	AveID	1.765	1.608		91.1	100	91	70-130
PCB-11	AveID	1.295	1.339		51.7	50.0	103	70-130
PCB-17	AveID	1.243	1.402		56.4	50.0	113	70-130
PCB-12	AveID	1.336	1.487		111	100	111	70-130
PCB-12/13	AveID	1.336	1.487		111	100	111	70-130
PCB-13	AveID	1.336	1.487		111	100	111	70-130
PCB-27	AveID	1.833	1.850		50.5	50.0	101	70-130
PCB-24	AveID	1.678	1.757		52.4	50.0	105	70-130
PCB-16	AveID	1.129	1.193		52.9	50.0	106	70-130
PCB-15	AveID	1.290	1.218		47.2	50.0	94	70-130
PCB-54	AveID	1.273	1.393		109	100	109	70-130
PCB-32	AveID	1.832	1.953		53.3	50.0	107	70-130
PCB-34	AveID	1.128	1.077		47.7	50.0	95	70-130
PCB-23	AveID	1.081	1.073		49.6	50.0	99	70-130
PCB-26	AveID	1.125	1.136		101	100	101	70-130
PCB-26/29	AveID	1.125	1.136		101	100	101	70-130
PCB-29	AveID	1.125	1.136		101	100	101	70-130
PCB-25	AveID	1.273	1.217		47.8	50.0	96	70-130
PCB-50	AveID	0.8578	0.8549		199	200	100	70-130
PCB-50/53	AveID	0.8578	0.8549		199	200	100	70-130
PCB-53	AveID	0.8578	0.8549		199	200	100	70-130
PCB-31	AveID	1.153	1.163		50.4	50.0	101	70-130
PCB-20	AveID	1.172	1.133		96.7	100	97	70-130
PCB-20/28	AveID	1.172	1.133		96.7	100	97	70-130
PCB-28	AveID	1.172	1.133		96.7	100	97	70-130
PCB-21	AveID	1.075	1.145		107	100	107	70-130
PCB-21/33	AveID	1.075	1.145		107	100	107	70-130

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-33	AveID	1.075	1.145		107	100	107	70-130
PCB-45	AveID	0.8264	0.8245		200	200	100	70-130
PCB-45/51	AveID	0.8264	0.8245		200	200	100	70-130
PCB-51	AveID	0.8264	0.8245		200	200	100	70-130
PCB-46	AveID	0.7101	0.7715		109	100	109	70-130
PCB-22	AveID	1.193	1.041		43.6	50.0	87	70-130
PCB-52	AveID	0.9194	0.8343		90.7	100	91	70-130
PCB-43	AveID	1.033	0.9371		181	200	91	70-130
PCB-43/73	AveID	1.033	0.9371		181	200	91	70-130
PCB-73	AveID	1.033	0.9371		181	200	91	70-130
PCB-36	AveID	1.107	1.255		56.7	50.0	113	70-130
PCB-49	AveID	1.069	1.049		196	200	98	70-130
PCB-49/69	AveID	1.069	1.049		196	200	98	70-130
PCB-69	AveID	1.069	1.049		196	200	98	70-130
PCB-39	AveID	1.158	1.078		46.5	50.0	93	70-130
PCB-48	AveID	0.8399	0.8578		102	100	102	70-130
PCB-104	AveID	1.009	1.263		125	100	125	70-130
PCB-44	AveID	0.9731	0.9426		291	300	97	70-130
PCB-44/47/65	AveID	0.9731	0.9426		291	300	97	70-130
PCB-47	AveID	0.9731	0.9426		291	300	97	70-130
PCB-65	AveID	0.9731	0.9426		291	300	97	70-130
PCB-38	AveID	1.084	1.160		53.5	50.0	107	70-130
PCB-96	AveID	1.094	1.011		92.4	100	92	70-130
PCB-59	AveID	1.185	1.181		299	300	100	70-130
PCB-59/62/75	AveID	1.185	1.181		299	300	100	70-130
PCB-62	AveID	1.185	1.181		299	300	100	70-130
PCB-75	AveID	1.185	1.181		299	300	100	70-130
PCB-42	AveID	0.8097	0.7739		95.6	100	96	70-130
PCB-35	AveID	1.130	1.106		49.0	50.0	98	70-130
PCB-40	AveID	0.8863	0.8636		292	300	97	70-130
PCB-40/41/71	AveID	0.8863	0.8636		292	300	97	70-130
PCB-41	AveID	0.8863	0.8636		292	300	97	70-130
PCB-71	AveID	0.8863	0.8636		292	300	97	70-130
PCB-37	AveID	1.144	1.147		50.2	50.0	100	70-130
PCB-64	AveID	1.178	1.201		102	100	102	70-130
PCB-72	AveID	1.094	1.191		109	100	109	70-130
PCB-103	AveID	0.8741	0.8351		95.5	100	96	70-130
PCB-68	AveID	1.253	1.274		102	100	102	70-130
PCB-94	AveID	0.7640	0.7974		104	100	104	70-130
PCB-57	AveID	1.082	1.145		106	100	106	70-130
PCB-95	AveID	0.8033	0.7312		91.0	100	91	70-130

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-58	AveID	1.325	1.171		88.4	100	88	70-130
PCB-100	AveID	0.8429	0.8829		210	200	105	70-130
PCB-93	AveID	0.8429	0.8829		210	200	105	70-130
PCB-93/100	AveID	0.8429	0.8829		210	200	105	70-130
PCB-67	AveID	1.423	1.417		99.6	100	100	70-130
PCB-102	AveID	0.8262	0.8523		206	200	103	70-130
PCB-98	AveID	0.8262	0.8523		206	200	103	70-130
PCB-98/102	AveID	0.8262	0.8523		206	200	103	70-130
PCB-63	AveID	1.124	1.232		110	100	110	70-130
PCB-88	AveID	0.8013	0.7989		199	200	100	70-130
PCB-88/91	AveID	0.8013	0.7989		199	200	100	70-130
PCB-91	AveID	0.8013	0.7989		199	200	100	70-130
PCB-61	AveID	1.261	1.191		378	400	94	70-130
PCB-61/70/74/76	AveID	1.261	1.191		378	400	94	70-130
PCB-70	AveID	1.261	1.191		378	400	94	70-130
PCB-74	AveID	1.261	1.191		378	400	94	70-130
PCB-76	AveID	1.261	1.191		378	400	94	70-130
PCB-84	AveID	0.7299	0.8132		111	100	111	70-130
PCB-66	AveID	1.258	1.208		96.0	100	96	70-130
PCB-55	AveID	1.324	1.110		83.9	100	84	70-130
PCB-89	AveID	0.7798	0.6977		89.5	100	89	70-130
PCB-56	AveID	1.233	1.112		90.1	100	90	70-130
PCB-121	AveID	1.296	1.173		90.5	100	91	70-130
PCB-60	AveID	1.123	1.177		105	100	105	70-130
PCB-92	AveID	0.8546	0.7291		85.3	100	85	70-130
PCB-80	AveID	1.324	1.414		107	100	107	70-130
PCB-155	AveID	0.9444	1.062		113	100	112	70-130
PCB-152	AveID	0.9895	0.9505		96.1	100	96	70-130
PCB-101	AveID	0.9550	0.9763		307	300	102	70-130
PCB-113	AveID	0.9550	0.9763		307	300	102	70-130
PCB-90	AveID	0.9550	0.9763		307	300	102	70-130
PCB-90/101/113	AveID	0.9550	0.9763		307	300	102	70-130
PCB-150	AveID	1.013	1.069		106	100	105	70-130
PCB-136	AveID	1.012	0.9664		95.5	100	96	70-130
PCB-83	AveID	0.8385	0.7949		190	200	95	70-130
PCB-83/99	AveID	0.8385	0.7949		190	200	95	70-130
PCB-99	AveID	0.8385	0.7949		190	200	95	70-130
PCB-112	AveID	1.411	1.291		91.5	100	91	70-130
PCB-145	AveID	0.9685	1.019		105	100	105	70-130
PCB-109	AveID	1.047	1.001		574	600	96	70-130
PCB-119	AveID	1.047	1.001		574	600	96	70-130



FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-125	AveID	1.047	1.001		574	600	96	70-130
PCB-79	AveID	1.437	1.400		97.4	100	97	70-130
PCB-86	AveID	1.047	1.001		574	600	96	70-130
PCB-86/87/97/109/119/125	AveID	1.047	1.001		574	600	96	70-130
PCB-87	AveID	1.047	1.001		574	600	96	70-130
PCB-97	AveID	1.047	1.001		574	600	96	70-130
PCB-78	AveID	1.162	1.065		91.7	100	92	70-130
PCB-116	AveID	1.041	1.039		300	300	100	70-130
PCB-117	AveID	1.041	1.039		300	300	100	70-130
PCB-85	AveID	1.041	1.039		300	300	100	70-130
PCB-85/116/117	AveID	1.041	1.039		300	300	100	70-130
PCB-110	AveID	1.192	1.118		188	200	94	70-130
PCB-110/115	AveID	1.192	1.118		188	200	94	70-130
PCB-115	AveID	1.192	1.118		188	200	94	70-130
PCB-81	AveID	1.080	1.082		100	100	100	70-130
PCB-82	AveID	0.8303	0.7499		90.3	100	90	70-130
PCB-148	AveID	0.7603	0.7170		94.3	100	94	70-130
PCB-77	AveID	1.084	1.123		104	100	104	70-130
PCB-111	AveID	1.213	1.220		101	100	101	70-130
PCB-135	AveID	0.7256	0.7119		196	200	98	70-130
PCB-135/151	AveID	0.7256	0.7119		196	200	98	70-130
PCB-151	AveID	0.7256	0.7119		196	200	98	70-130
PCB-120	AveID	1.476	1.168		79.1	100	79	70-130
PCB-154	AveID	0.8129	0.9550		118	100	117	70-130
PCB-144	AveID	0.7852	0.7252		92.4	100	92	70-130
PCB-147	AveID	0.8950	0.9068		203	200	101	70-130
PCB-147/149	AveID	0.8950	0.9068		203	200	101	70-130
PCB-149	AveID	0.8950	0.9068		203	200	101	70-130
PCB-134	AveID	0.7967	0.7322		184	200	92	70-130
PCB-134/143	AveID	0.7967	0.7322		184	200	92	70-130
PCB-143	AveID	0.7967	0.7322		184	200	92	70-130
PCB-108	AveID	1.141	1.092		192	200	96	70-130
PCB-108/124	AveID	1.141	1.092		192	200	96	70-130
PCB-124	AveID	1.141	1.092		192	200	96	70-130
PCB-139	AveID	0.8769	0.9117		208	200	104	70-130
PCB-139/140	AveID	0.8769	0.9117		208	200	104	70-130
PCB-140	AveID	0.8769	0.9117		208	200	104	70-130
PCB-107	AveID	1.212	1.347		111	100	111	70-130
PCB-131	AveID	0.7503	0.7482		99.7	100	100	70-130
PCB-123	AveID	1.072	1.170		109	100	109	70-130
PCB-106	AveID	1.084	1.036		95.6	100	96	70-130

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-142	AveID	0.7507	0.7009		93.4	100	93	70-130
PCB-118	AveID	1.206	1.164		96.6	100	97	70-130
PCB-132	AveID	0.7489	0.7731		103	100	103	70-130
PCB-122	AveID	0.9567	0.8244		86.2	100	86	70-130
PCB-114	AveID	1.084	1.198		111	100	110	70-130
PCB-188	AveID	1.135	1.094		96.4	100	96	70-130
PCB-133	AveID	0.8096	0.7674		94.8	100	95	70-130
PCB-179	AveID	1.428	1.355		95.0	100	95	70-130
PCB-165	AveID	1.025	1.035		101	100	101	70-130
PCB-105	AveID	1.188	1.019		85.8	100	86	70-130
PCB-146	AveID	0.9637	0.997		103	100	103	70-130
PCB-184	AveID	1.367	1.441		105	100	105	70-130
PCB-161	AveID	1.129	1.137		101	100	101	70-130
PCB-176	AveID	1.233	1.339		109	100	109	70-130
PCB-153	AveID	1.094	1.059		194	200	97	70-130
PCB-153/168	AveID	1.094	1.059		194	200	97	70-130
PCB-168	AveID	1.094	1.059		194	200	97	70-130
PCB-141	AveID	0.8755	0.9597		110	100	110	70-130
PCB-186	AveID	1.474	1.315		89.2	100	89	70-130
PCB-130	AveID	0.7051	0.7475		106	100	106	70-130
PCB-127	AveID	1.139	1.130		99.2	100	99	70-130
PCB-137	AveID	0.7767	0.8332		107	100	107	70-130
PCB-164	AveID	1.038	1.221		118	100	118	70-130
PCB-129	AveID	0.9464	0.9336		395	400	99	70-130
PCB-129/138/160/163	AveID	0.9464	0.9336		395	400	99	70-130
PCB-138	AveID	0.9464	0.9336		395	400	99	70-130
PCB-160	AveID	0.9464	0.9336		395	400	99	70-130
PCB-163	AveID	0.9464	0.9336		395	400	99	70-130
PCB-158	AveID	1.311	1.375		105	100	105	70-130
PCB-178	AveID	0.8946	0.9371		105	100	105	70-130
PCB-175	AveID	0.9524	1.006		106	100	106	70-130
PCB-126	AveID	1.098	1.156		105	100	105	70-130
PCB-128	AveID	0.9829	1.021		208	200	104	70-130
PCB-128/166	AveID	0.9829	1.021		208	200	104	70-130
PCB-166	AveID	0.9829	1.021		208	200	104	70-130
PCB-187	AveID	1.102	1.066		96.8	100	97	70-130
PCB-182	AveID	0.9247	1.108		120	100	120	70-130
PCB-183	AveID	0.9825	1.030		210	200	105	70-130
PCB-183/185	AveID	0.9825	1.030		210	200	105	70-130
PCB-185	AveID	0.9825	1.030		210	200	105	70-130
PCB-174	AveID	0.9642	1.059		110	100	110	70-130

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d224053licv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-159	AveID	1.386	1.223		88.3	100	88	70-130
PCB-162	AveID	1.257	1.256		99.9	100	100	70-130
PCB-177	AveID	0.9773	0.9705		99.3	100	99	70-130
PCB-202	AveID	1.036	1.147		166	150	111	70-130
PCB-167	AveID	1.116			105	100	105	70-130
PCB-181	AveID	0.9505	0.9734		102	100	102	70-130
PCB-171	AveID	0.9336	0.9451		202	200	101	70-130
PCB-171/173	AveID	0.9336	0.9451		202	200	101	70-130
PCB-173	AveID	0.9336	0.9451		202	200	101	70-130
PCB-201	AveID	0.9754	1.182		182	150	121	70-130
PCB-156	AveID	1.110	1.136		205	200	102	70-130
PCB-156/157	AveID	1.110	1.136		205	200	102	70-130
PCB-157	AveID	1.110	1.136		205	200	102	70-130
PCB-204	AveID	1.049	1.143		164	150	109	70-130
PCB-197	AveID	1.146	1.072		140	150	94	70-130
PCB-200	AveID	1.007	1.121		167	150	111	70-130
PCB-172	AveID	0.8519	0.9291		109	100	109	70-130
PCB-192	AveID	1.346	1.188		88.3	100	88	70-130
PCB-180	AveID	1.168	1.237		212	200	106	70-130
PCB-180/193	AveID	1.168	1.237		212	200	106	70-130
PCB-193	AveID	1.168	1.237		212	200	106	70-130
PCB-191	AveID	1.289	1.335		104	100	104	70-130
PCB-170	AveID	1.187	1.248		105	100	105	70-130
PCB-190	AveID	1.332	1.297		97.4	100	97	70-130
PCB-169	AveID	1.163	1.151		99.0	100	99	70-130
PCB-198	AveID	0.8698	0.7707		266	300	89	70-130
PCB-198/199	AveID	0.8698	0.7707		266	300	89	70-130
PCB-199	AveID	0.8698	0.7707		266	300	89	70-130
PCB-196	AveID	0.7806	0.8313		160	150	106	70-130
PCB-203	AveID	0.9292	0.8581		139	150	92	70-130
PCB-208	AveID	1.137	1.121		148	150	99	70-130
PCB-195	AveID	0.8263	0.7848		143	150	95	70-130
PCB-189	AveID	0.9633	1.028		107	100	107	70-130
PCB-207	AveID	1.376	1.307		143	150	95	70-130
PCB-194	AveID	0.9735	0.9023		139	150	93	70-130
PCB-205	AveID	1.088	1.125		155	150	103	70-130
PCB-206	AveID	1.335	1.185		133	150	89	70-130
PCB-209	AveID	1.100	1.108		151	150	101	70-130
PCB-8L	AveID	1.207	1.152		47.8	50.0	96	70-130
PCB-28L	Ave	1.049	0.9712		46.3	50.0	93	70-130
PCB-95L	AveID	0.7218	0.6977		48.3	50.0	97	70-130

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: ICV 140-87130/7 Calibration Date: 05/31/2024 22:58  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240531icv.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%REC	%REC LIMITS
PCB-79L	AveID	1.002	0.9895		49.4	50.0	99	70-130
PCB-111L	Ave	1.370	1.294		47.2	50.0	94	70-130
PCB-153L	AveID	0.9169	0.8168		44.5	50.0	89	70-130
PCB-178L	Ave	1.031	0.9547		46.3	50.0	93	70-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d  
Lims ID: ICV  
Client ID:  
Sample Type: ICV  
Inject. Date: 31-May-2024 22:58:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-007  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist:  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 25-Jun-2024 14:34:14 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1632

First Level Reviewer: P0IK

Date: 01-Jun-2024 11:13:58

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					142.3	142.3	0.1520	0.1520		
D PCB-1L	11:36	13414069	3.05	1.6108	99.4	99.4	0.3050	0.3050	99.43	
D PCB-3L	13:45	13162192	3.20	1.5891	98.9	98.9	0.3091	0.3091	98.89	
PCB-1	11:36	7705547	3.15	1.2191	47.1	47.1	0.1363	0.1363	94.24	
PCB-2	13:35	7406759	3.15	1.1805	47.2	47.2	0.1544	0.1544	94.43	
PCB-3	13:46	7702403	3.18	1.2206	47.9	47.9	0.1655	0.1655	95.89	
S Total Dichlorobiphenyls					600.7	600.7	0.0371	0.0371		
D PCB-4L	14:00	5419001	1.61	0.6475	99.9	99.9	0.2147	0.2147	99.92	
* PCB-9L	15:58	8375462	1.59		100.0	100.0				
\$ PCB-8L	16:48	4139554	1.62	1.2066	47.8	47.8	0.1418	0.1418	95.51	
D PCB-15L	19:53	8949015	1.65	1.0789	99.0	99.0	0.1288	0.1288	99.03	
PCB-4	14:01	3127338	1.60	1.2818	45.0	45.0	0.0447	0.0447	90.04	
PCB-10	14:11	5130776	1.61	1.3149	54.3	54.3	0.0388	0.0388	109	
PCB-9	15:59	4916901	1.64	1.4224	48.1	48.1	0.0359	0.0359	96.23	
PCB-7	16:09	5070472	1.57	1.4134	49.9	49.9	0.0361	0.0361	99.87	
PCB-6	16:23	5004501	1.60	1.5421	45.2	45.2	0.0331	0.0331	90.35	
PCB-5	16:42	4956608	1.59	1.3395	51.5	51.5	0.0381	0.0381	103	
PCB-8	16:50	5320885	1.59	1.5889	46.6	46.6	0.0321	0.0321	93.23	
PCB-14	18:27	5012029	1.59	1.4025	49.7	49.7	0.0364	0.0364	99.49	
PCB-11	19:17	4810913	1.59	1.2951	51.7	51.7	0.0394	0.0394	103	
PCB-12	19:35	10683830	1.59	1.3358	111.3	111.3	0.0382	0.0382	111	
PCB-13 (C12)	19:35	10683830	1.59	1.3358	111.3	111.3	0.0382	0.0382	111	
PCB-15	19:54	5451192	1.60	1.2903	47.2	47.2	0.0356	0.0356	94.42	
S Total Trichlorobiphenyls					1203.3	1203.3	0.6825	0.6825		
D PCB-19L	17:06	3365213	1.06	0.6285	97.9	97.9	0.4414	0.4414	97.89	
* PCB-32L	20:22	5469284	1.12		100.0	100.0				
* PCB-31L	22:37	15618533	1.05		100.0	100.0				
\$ PCB-28L	22:55	7584009	1.04	1.0494	46.3	46.3	0.0861	0.0861	92.54	
D PCB-37L	26:54	13719981	1.07	0.8749	100.4	100.4	0.1032	0.1032	100	
PCB-19	17:08	2049308	1.04	1.2809	47.5	47.5	0.0689	0.0689	95.08	
PCB-18	18:57	5412289	1.06	1.7652	91.1	91.1	0.0500	0.0500	91.11	
PCB-30 (C18)	18:57	5412289	1.06	1.7652	91.1	91.1	0.0500	0.0500	91.11	
PCB-17	19:24	2359724	1.04	1.2430	56.4	56.4	0.0710	0.0710	113	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:38	3112171	1.03	1.8327	50.5	50.5	0.0481	0.0481	101	
PCB-24	19:45	2956499	1.04	1.6777	52.4	52.4	0.0526	0.0526	105	
PCB-16	19:52	2007108	1.05	1.1286	52.8	52.8	0.0782	0.0782	106	
PCB-32	20:23	3286329	1.05	1.8324	53.3	53.3	0.0481	0.0481	107	
PCB-34	21:38	7386673	1.06	1.1277	47.7	47.7	1.027	1.027	95.48	
PCB-23	21:47	7363564	1.07	1.0813	49.6	49.6	1.071	1.071	99.27	
PCB-26	22:07	15586173	1.05	1.1255	100.9	100.9	1.029	1.029	101	
PCB-29 (C26)	22:07	15586173	1.05	1.1255	100.9	100.9	1.029	1.029	101	
PCB-25	22:20	8348692	1.06	1.2728	47.8	47.8	0.9102	0.9102	95.62	
PCB-31	22:38	7977672	1.05	1.1532	50.4	50.4	1.005	1.005	101	
PCB-20	22:57	15549506	1.06	1.1718	96.7	96.7	0.9886	0.9886	96.72	
PCB-28 (C20)	22:57	15549506	1.06	1.1718	96.7	96.7	0.9886	0.9886	96.72	
PCB-21	23:06	15708308	1.03	1.0746	106.5	106.5	1.078	1.078	107	M
PCB-33 (C21)	23:06	15708308	1.03	1.0746	106.5	106.5	1.078	1.078	107	M
PCB-22	23:34	7141111	1.05	1.1932	43.6	43.6	0.9709	0.9709	87.24	
PCB-36	25:08	8610244	1.12	1.1071	56.7	56.7	1.046	1.046	113	
PCB-39	25:29	7392700	1.04	1.1581	46.5	46.5	1.000	1.000	93.05	
PCB-38	26:04	7958217	1.06	1.0843	53.5	53.5	1.068	1.068	107	
PCB-35	26:31	7588192	1.07	1.1297	49.0	49.0	1.025	1.025	97.92	
PCB-37	26:56	7868173	1.06	1.1435	50.2	50.2	1.013	1.013	100	
S Total Tetrachlorobiphenyls					4133.2	4133.2	0.7839	0.7839		
D PCB-54L	20:11	3150116	0.82	0.5562	103.5	103.5	0.0525	0.0525	104	
* PCB-52L	24:45	7783825	0.80		100.0	100.0				
\$ PCB-79L	32:41	4925323	0.80	1.0018	49.4	49.4	0.3933	0.3933	98.77	
D PCB-81L	33:40	9646433	0.81	1.2470	99.4	99.4	0.3558	0.3558	99.39	
D PCB-77L	34:13	10262985	0.80	1.3212	99.8	99.8	0.3358	0.3358	99.80	
PCB-54	20:12	4387976	0.79	1.2733	109.4	109.4	0.0935	0.0935	109	
PCB-50	22:23	17020303	0.79	0.8578	199.3	199.3	1.006	1.006	99.66	
PCB-53 (C50)	22:23	17020303	0.79	0.8578	199.3	199.3	1.006	1.006	99.66	
PCB-45	23:06	16414642	0.79	0.8264	199.5	199.5	1.044	1.044	99.76	M
PCB-51 (C45)	23:06	16414642	0.79	0.8264	199.5	199.5	1.044	1.044	99.76	M
PCB-46	23:21	7680120	0.79	0.7101	108.6	108.6	1.215	1.215	109	
PCB-52	24:46	8305512	0.80	0.9194	90.7	90.7	0.9384	0.9384	90.74	
PCB-43	24:55	18656318	0.79	1.0333	181.4	181.4	0.8350	0.8350	90.68	M
PCB-73 (C43)	24:55	18656318	0.79	1.0333	181.4	181.4	0.8350	0.8350	90.68	M
PCB-49	25:13	20893404	0.79	1.0685	196.4	196.4	0.8075	0.8075	98.21	
PCB-69 (C49)	25:13	20893404	0.79	1.0685	196.4	196.4	0.8075	0.8075	98.21	
PCB-48	25:32	8538932	0.79	0.8399	102.1	102.1	1.027	1.027	102	
PCB-44	25:47	28148593	0.80	0.9731	290.6	290.6	0.8867	0.8867	96.86	
PCB-47 (C44)	25:47	28148593	0.80	0.9731	290.6	290.6	0.8867	0.8867	96.86	
PCB-65 (C44)	25:47	28148593	0.80	0.9731	290.6	290.6	0.8867	0.8867	96.86	
PCB-59	26:05	35280314	0.80	1.1853	299.0	299.0	0.7280	0.7280	99.67	
PCB-62 (C59)	26:05	35280314	0.80	1.1853	299.0	299.0	0.7280	0.7280	99.67	
PCB-75 (C59)	26:05	35280314	0.80	1.1853	299.0	299.0	0.7280	0.7280	99.67	
PCB-42	26:18	7704424	0.77	0.8097	95.6	95.6	1.066	1.066	95.59	
PCB-40	26:47	25791445	0.80	0.8863	292.3	292.3	0.9735	0.9735	97.44	M
PCB-41 (C40)	26:47	25791445	0.80	0.8863	292.3	292.3	0.9735	0.9735	97.44	M
PCB-71 (C40)	26:47	25791445	0.80	0.8863	292.3	292.3	0.9735	0.9735	97.44	M
PCB-64	27:00	11956915	0.78	1.1776	102.0	102.0	0.7327	0.7327	102	
PCB-72	27:50	11854927	0.81	1.0943	108.8	108.8	0.7885	0.7885	109	
PCB-68	28:07	12678056	0.81	1.2533	101.6	101.6	0.6885	0.6885	102	
PCB-57	28:33	11397207	0.79	1.0818	105.8	105.8	0.7976	0.7976	106	
PCB-58	28:47	11659254	0.80	1.3253	88.4	88.4	0.6510	0.6510	88.37	
PCB-67	28:57	14108728	0.79	1.4230	99.6	99.6	0.6063	0.6063	99.60	
PCB-63	29:13	12259353	0.79	1.1240	109.6	109.6	0.7677	0.7677	110	
PCB-61	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-70 (C61)	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-74 (C61)	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-76 (C61)	29:33	47420190	0.79	1.2612	377.7	377.7	0.6841	0.6841	94.42	
PCB-66	29:52	12027199	0.79	1.2583	96.0	96.0	0.6857	0.6857	96.02	
PCB-55	30:02	11053300	0.79	1.3236	83.9	83.9	0.6519	0.6519	83.89	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:32	11065342	0.79	1.2334	90.1	90.1	0.6996	0.6996	90.12	
PCB-60	30:45	11714864	0.79	1.1230	104.8	104.8	0.7683	0.7683	105	
PCB-80	31:10	14080645	0.80	1.3243	106.8	106.8	0.6516	0.6516	107	
PCB-79	32:41	13935476	0.80	1.4368	97.4	97.4	0.6005	0.6005	97.43	
PCB-78	33:15	10602840	0.80	1.1618	91.7	91.7	0.7426	0.7426	91.67	
PCB-81	33:41	10440515	0.81	1.0802	100.2	100.2	0.8094	0.8094	100	
PCB-77	34:15	11527488	0.79	1.0836	103.7	103.7	0.7860	0.7860	104	
S Total Pentachlorobiphenyls					4510.1	4510.1	0.4493	0.4493		
D PCB-104L	25:41	6421083	1.59	1.2161	102.0	102.0	0.0354	0.0354	102	
\$ PCB-95L	28:40	2240078	1.60	0.7218	48.3	48.3	0.0427	0.0427	96.66	
* PCB-101L	31:36	5178918	1.59		100.0	100.0				
\$ PCB-111L	34:17	3351426	1.63	1.3699	47.2	47.2	0.0314	0.0314	94.48	
D PCB-123L	36:14	9572782	1.59	0.9731	99.3	99.3	1.187	1.187	99.29	
D PCB-118L	36:34	10007737	1.59	1.0102	100.0	100.0	1.143	1.143	100	
D PCB-114L	37:06	9795358	1.58	0.9949	99.4	99.4	1.161	1.161	99.38	
D PCB-105L	37:44	9418380	1.60	0.9514	99.9	99.9	1.214	1.214	99.92	
* PCB-127L	39:13	9907302	1.59		100.0	100.0				
D PCB-126L	40:50	9486247	1.59	0.9439	101.4	101.4	1.224	1.224	101	
PCB-104	25:43	8111515	1.58	1.0087	125.2	125.2	0.0552	0.0552	125	
PCB-96	26:04	6493983	1.57	1.0940	92.4	92.4	0.0509	0.0509	92.44	
PCB-103	28:01	5362312	1.59	0.8741	95.5	95.5	0.0637	0.0637	95.54	
PCB-94	28:15	5120381	1.56	0.7640	104.4	104.4	0.0728	0.0728	104	
PCB-95	28:41	4695325	1.57	0.8033	91.0	91.0	0.0693	0.0693	91.03	
PCB-93	28:54	11337838	1.58	0.8429	209.5	209.5	0.0660	0.0660	105	
PCB-100 (C93)	28:54	11337838	1.58	0.8429	209.5	209.5	0.0660	0.0660	105	
PCB-98	29:03	10945909	1.56	0.8262	206.3	206.3	0.0674	0.0674	103	M
PCB-102 (C98)	29:03	10945909	1.56	0.8262	206.3	206.3	0.0674	0.0674	103	M
PCB-88	29:33	10260203	1.58	0.8013	199.4	199.4	0.0695	0.0695	99.71	
PCB-91 (C88)	29:33	10260203	1.58	0.8013	199.4	199.4	0.0695	0.0695	99.71	
PCB-84	29:46	5221560	1.62	0.7299	111.4	111.4	0.0762	0.0762	111	
PCB-89	30:15	4480089	1.54	0.7798	89.5	89.5	0.0714	0.0714	89.47	
PCB-121	30:40	7533942	1.60	1.2964	90.5	90.5	0.0429	0.0429	90.51	
PCB-92	31:02	4681623	1.58	0.8546	85.3	85.3	0.0651	0.0651	85.32	
PCB-90	31:37	18807306	1.58	0.9550	306.7	306.7	0.0583	0.0583	102	
PCB-101 (C90)	31:37	18807306	1.58	0.9550	306.7	306.7	0.0583	0.0583	102	
PCB-113 (C90)	31:37	18807306	1.58	0.9550	306.7	306.7	0.0583	0.0583	102	
PCB-83	32:12	10207726	1.58	0.8385	189.6	189.6	0.0664	0.0664	94.80	
PCB-99 (C83)	32:12	10207726	1.58	0.8385	189.6	189.6	0.0664	0.0664	94.80	
PCB-112	32:19	8287611	1.60	1.4111	91.5	91.5	0.0394	0.0394	91.47	
PCB-86	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-87 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-97 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-109 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-119 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-125 (C86)	32:41	38576882	1.56	1.0473	573.7	573.7	0.0531	0.0531	95.61	M
PCB-85	33:24	20019818	1.59	1.0408	299.6	299.6	0.0535	0.0535	99.85	
PCB-116 (C85)	33:24	20019818	1.59	1.0408	299.6	299.6	0.0535	0.0535	99.85	
PCB-117 (C85)	33:24	20019818	1.59	1.0408	299.6	299.6	0.0535	0.0535	99.85	
PCB-110	33:37	14360543	1.58	1.1919	187.6	187.6	0.0467	0.0467	93.82	
PCB-115 (C110)	33:37	14360543	1.58	1.1919	187.6	187.6	0.0467	0.0467	93.82	
PCB-82	33:54	4814852	1.58	0.8303	90.3	90.3	0.0670	0.0670	90.31	
PCB-111	34:18	7831052	1.56	1.2125	100.6	100.6	0.0459	0.0459	101	
PCB-120	34:46	7497947	1.59	1.4762	79.1	79.1	0.0377	0.0377	79.10	
PCB-108	35:54	21095145	1.57	1.1405	191.5	191.5	1.237	1.237	95.77	
PCB-124 (C108)	35:54	21095145	1.57	1.1405	191.5	191.5	1.237	1.237	95.77	
PCB-107	36:09	13007450	1.56	1.2121	111.1	111.1	1.164	1.164	111	
PCB-123	36:16	11197845	1.57	1.0722	109.1	109.1	1.291	1.291	109	
PCB-106	36:22	10002249	1.58	1.0839	95.6	95.6	1.302	1.302	95.57	
PCB-118	36:35	11653704	1.56	1.2055	96.6	96.6	1.124	1.124	96.59	
PCB-122	36:56	7960489	1.57	0.9567	86.2	86.2	1.475	1.475	86.17	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:06	11734136	1.57	1.0842	110.5	110.5	1.295	1.295	110	
PCB-105	37:46	9597079	1.55	1.1879	85.8	85.8	1.213	1.213	85.78	
PCB-127	39:14	10912279	1.60	1.1394	99.2	99.2	1.239	1.239	99.18	
PCB-126	40:50	10965999	1.58	1.0976	105.3	105.3	1.350	1.350	105	
S Total Hexachlorobiphenyls					4243.4	4243.4	0.6932	0.6932		
D PCB-155L	31:22	5734390	1.30	1.0851	102.0	102.0	0.0185	0.0185	102	
\$ PCB-153L	38:27	3343428	1.30	0.9169	44.5	44.5	0.4214	0.4214	89.08	
* PCB-138L	39:41	6563932	1.28		100.0	100.0				
\$ PCB-159L	41:56	4312836	1.30	0.5118	99.8	99.8	0.6210	0.6210	99.77	
D PCB-167L	42:42	8445294	1.31	1.2572	102.3	102.3	0.3206	0.3206	102	
D PCB-156L	43:50	16094647	1.28	1.2106	202.5	202.5	0.3330	0.3330	101	
D PCB-157L (C156L)	43:50	16094647	1.28	1.2106	202.5	202.5	0.3330	0.3330	101	
D PCB-169L	47:04	8207279	1.29	1.2439	100.5	100.5	0.3241	0.3241	101	
PCB-155	31:24	6090078	1.28	0.9444	112.5	112.5	0.0796	0.0796	112	
PCB-152	31:35	5450811	1.27	0.9895	96.1	96.1	0.0760	0.0760	96.06	
PCB-150	31:45	6127358	1.25	1.0132	105.5	105.5	0.0742	0.0742	105	
PCB-136	32:07	5541573	1.28	1.0116	95.5	95.5	0.0744	0.0744	95.53	
PCB-145	32:24	5840861	1.26	0.9685	105.2	105.2	0.0777	0.0777	105	
PCB-148	33:56	4111619	1.25	0.7603	94.3	94.3	0.0989	0.0989	94.31	
PCB-135	34:34	8164147	1.26	0.7256	196.2	196.2	0.1037	0.1037	98.11	M
PCB-151 (C135)	34:34	8164147	1.26	0.7256	196.2	196.2	0.1037	0.1037	98.11	M
PCB-154	34:46	5476583	1.25	0.8129	117.5	117.5	0.0925	0.0925	117	
PCB-144	35:05	4158464	1.28	0.7852	92.4	92.4	0.0958	0.0958	92.35	
PCB-147	35:27	14847787	1.26	0.8950	202.6	202.6	0.9838	0.9838	101	
PCB-149 (C147)	35:27	14847787	1.26	0.8950	202.6	202.6	0.9838	0.9838	101	
PCB-134	35:44	11988900	1.25	0.7967	183.8	183.8	1.105	1.105	91.91	
PCB-143 (C134)	35:44	11988900	1.25	0.7967	183.8	183.8	1.105	1.105	91.91	
PCB-139	36:02	14927416	1.24	0.8769	207.9	207.9	1.004	1.004	104	
PCB-140 (C139)	36:02	14927416	1.24	0.8769	207.9	207.9	1.004	1.004	104	
PCB-131	36:14	6125595	1.25	0.7503	99.7	99.7	1.174	1.174	99.73	
PCB-142	36:23	5738296	1.24	0.7507	93.4	93.4	1.173	1.173	93.37	
PCB-132	36:42	6329307	1.24	0.7489	103.2	103.2	1.176	1.176	103	
PCB-133	37:13	6282580	1.24	0.8096	94.8	94.8	1.088	1.088	94.79	
PCB-165	37:36	8477247	1.26	1.0247	101.1	101.1	0.8592	0.8592	101	
PCB-146	37:51	8161387	1.24	0.9637	103.4	103.4	0.9137	0.9137	103	
PCB-161	37:59	9304402	1.25	1.1288	100.7	100.7	0.7800	0.7800	101	
PCB-153	38:30	17338020	1.25	1.0938	193.6	193.6	0.8050	0.8050	96.81	
PCB-168 (C153)	38:30	17338020	1.25	1.0938	193.6	193.6	0.8050	0.8050	96.81	
PCB-141	38:39	7856757	1.24	0.8755	109.6	109.6	1.006	1.006	110	
PCB-130	39:04	6119481	1.24	0.7051	106.0	106.0	1.249	1.249	106	
PCB-137	39:17	6821305	1.21	0.7767	107.3	107.3	1.134	1.134	107	
PCB-164	39:24	9995366	1.25	1.0382	117.6	117.6	0.8480	0.8480	118	
PCB-129	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-138 (C129)	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-160 (C129)	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-163 (C129)	39:43	30572353	1.26	0.9464	394.6	394.6	0.9303	0.9303	98.65	M
PCB-158	40:06	11258096	1.24	1.3110	104.9	104.9	0.6716	0.6716	105	
PCB-128	40:57	16714613	1.24	0.9829	207.7	207.7	0.8958	0.8958	104	
PCB-166 (C128)	40:57	16714613	1.24	0.9829	207.7	207.7	0.8958	0.8958	104	
PCB-159	41:57	10014801	1.23	1.3856	88.3	88.3	0.6354	0.6354	88.28	
PCB-162	42:14	10282972	1.22	1.2571	99.9	99.9	0.7004	0.7004	99.92	
PCB-167	42:43	9852940	1.23	1.1159	104.6	104.6	0.6491	0.6491	105	
PCB-156	43:52	18279006	1.24	1.1104	204.6	204.6	0.9827	0.9827	102	
PCB-157 (C156)	43:52	18279006	1.24	1.1104	204.6	204.6	0.9827	0.9827	102	
PCB-169	47:05	9448864	1.27	1.1628	99.0	99.0	0.6468	0.6468	99.01	
S Total Heptachlorobiphenyls					2467.5	2467.5	0.0680	0.0680		
D PCB-188L	37:06	6609962	1.05	1.3133	99.3	99.3	0.0226	0.0226	99.34	
\$ PCB-178L	40:09	2418279	1.05	1.0313	46.3	46.3	0.0287	0.0287	92.57	
* PCB-180L	45:14	5066313	1.06		100.0	100.0				



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-170L	46:29	4177003	1.08	0.8362	98.6	98.6	0.0354	0.0354	98.60	
D PCB-189L	49:36	10375043	1.07	1.4414	101.2	101.2	0.3972	0.3972	101	
PCB-188	37:07	7230306	1.08	1.1350	96.4	96.4	0.0462	0.0462	96.38	
PCB-179	37:27	7310684	1.07	1.4276	94.9	94.9	0.0460	0.0460	94.95	
PCB-184	37:58	7772186	1.05	1.3672	105.4	105.4	0.0480	0.0480	105	
PCB-176	38:20	7223648	1.06	1.2331	108.6	108.6	0.0533	0.0533	109	
PCB-186	38:47	7091463	1.04	1.4737	89.2	89.2	0.0446	0.0446	89.22	
PCB-178	40:10	5054358	1.06	0.8946	104.8	104.8	0.0734	0.0734	105	
PCB-175	40:48	5425795	1.06	0.9524	105.6	105.6	0.0690	0.0690	106	
PCB-187	41:05	5750661	1.07	1.1018	96.8	96.8	0.0596	0.0596	96.77	
PCB-182	41:16	5978453	1.06	0.9247	119.9	119.9	0.0710	0.0710	120	
PCB-183	41:41	11114963	1.04	0.9825	209.8	209.8	0.0668	0.0668	105	M
PCB-185 (C183)	41:41	11114963	1.04	0.9825	209.8	209.8	0.0668	0.0668	105	M
PCB-174	41:55	5712753	1.07	0.9642	109.9	109.9	0.0681	0.0681	110	
PCB-177	42:21	5234215	0.99	0.9773	99.3	99.3	0.0672	0.0672	99.30	
PCB-181	42:45	5249952	1.06	0.9505	102.4	102.4	0.0691	0.0691	102	
PCB-171	42:58	10194311	1.05	0.9336	202.4	202.4	0.0703	0.0703	101	
PCB-173 (C171)	42:58	10194311	1.05	0.9336	202.4	202.4	0.0703	0.0703	101	
PCB-172	44:36	5010827	1.05	0.8519	109.1	109.1	0.0771	0.0771	109	
PCB-192	44:53	6407979	1.07	1.3459	88.3	88.3	0.0488	0.0488	88.28	
PCB-180	45:13	13348093	1.06	1.1676	212.0	212.0	0.0562	0.0562	106	
PCB-193 (C180)	45:13	13348093	1.06	1.1676	212.0	212.0	0.0562	0.0562	106	
PCB-191	45:37	7199239	1.06	1.2891	103.5	103.5	0.0509	0.0509	104	
PCB-170	46:30	5214600	1.04	1.1865	105.2	105.2	0.0741	0.0741	105	
PCB-190	47:02	6997680	1.06	1.3322	97.4	97.4	0.0493	0.0493	97.39	
PCB-189	49:38	10666309	1.05	0.9633	106.7	106.7	0.2183	0.2183	107	
S Total Octachlorobiphenyls					1819.4	1819.4	0.1226	0.1226		
D PCB-202L	42:27	4923092	0.90	0.9818	99.0	99.0	0.0140	0.0140	98.97	
* PCB-194L	51:43	7109366	0.91		100.0	100.0				
D PCB-205L	52:10	8498492	0.92	1.1786	101.4	101.4	0.0712	0.0712	101	
PCB-202	42:29	8468737	0.90	1.0359	166.1	166.1	0.0575	0.0575	111	
PCB-201	43:24	8730003	0.91	0.9754	181.8	181.8	0.0610	0.0610	121	
PCB-204	44:05	8442210	0.91	1.0485	163.5	163.5	0.0568	0.0568	109	
PCB-197	44:18	7912802	0.89	1.1458	140.3	140.3	0.0520	0.0520	93.52	
PCB-200	44:25	8280585	0.91	1.0072	167.0	167.0	0.0591	0.0591	111	
PCB-198	47:12	11381972	0.90	0.8698	265.8	265.8	0.0685	0.0685	88.60	
PCB-199 (C198)	47:12	11381972	0.90	0.8698	265.8	265.8	0.0685	0.0685	88.60	
PCB-196	47:53	6138982	0.89	0.7806	159.7	159.7	0.0763	0.0763	106	
PCB-203	48:04	6336967	0.91	0.9292	138.5	138.5	0.0641	0.0641	92.35	
PCB-195	49:23	10004472	0.90	0.8263	142.5	142.5	0.3271	0.3271	94.98	
PCB-194	51:44	11502338	0.91	0.9735	139.0	139.0	0.2776	0.2776	92.69	
PCB-205	52:12	14343070	0.90	1.0878	155.2	155.2	0.2485	0.2485	103	
S Total Nonachlorobiphenyls					423.6	423.6	0.3600	0.3600		
D PCB-208L	49:08	6760397	0.82	0.9576	99.3	99.3	0.2461	0.2461	99.30	
D PCB-206L	53:56	5062798	0.82	0.6947	102.5	102.5	0.3392	0.3392	103	
PCB-208	49:09	11369581	0.78	1.1374	147.9	147.9	0.3498	0.3498	98.57	
PCB-207	50:05	11589174	0.79	1.3756	142.5	142.5	0.3311	0.3311	95.01	
PCB-206	53:57	8998894	0.80	1.3346	133.2	133.2	0.3990	0.3990	88.79	
D PCB-209L	55:34	4860874	0.73	0.6669	102.5	102.5	0.0770	0.0770	103	
DCB Decachlorobiphenyl	55:35	8078366	0.70	1.1004	151.0	151.0	0.0505	0.0505	101	
S Polychlorinated biphenyls, Total					19552	19552	0.3608	0.3608		

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

61MX209ICVS\_00010

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d  
Lims ID: ICV  
Client ID:  
Sample Type: ICV  
Inject. Date: 31-May-2024 22:58:00 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0032883-007  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist:  
Method: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 25-Jun-2024 14:34:14 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1632

First Level Reviewer: P0IK

Date: 01-Jun-2024 11:13:58

Signal	RT (min.)	Adj RT (min.)	¶ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:36	11:36	-1	0.726	10103777	4095861	3106	7765	1319		
202.0766	11:36	11:36	-1	0.726	3310292	1331893	1619	4047	823	3.05(2.66-3.60)	
PCB-3L											
200.0795	13:45	13:46	-1	0.861	10030467	3409421	3106	7765	1098		
202.0766	13:45	13:46	-1	0.861	3131725	1055587	1619	4047	652	3.20(2.66-3.60)	
PCB-1											
188.0393	11:36	11:37	-1	1.001	5850066	2371808	2745	6862	864		
190.0363	11:36	11:37	-1	1.001	1855481	744562	862	2155	864	3.15(2.66-3.60)	
PCB-2											
188.0393	13:35	13:36	-2	0.988	5623875	1844092	2745	6862	672		
190.0363	13:35	13:36	-2	0.988	1782884	586009	862	2155	680	3.15(2.66-3.60)	
PCB-3											
188.0393	13:46	13:47	-1	1.001	5859143	1964980	2745	6862	716		
190.0363	13:46	13:47	-1	1.001	1843260	617524	862	2155	716	3.18(2.66-3.60)	
PCB-4L											
234.0406	14:00	14:02	-2	0.876	3344986	1063170	1120	2800	949		
236.0376	14:00	14:02	-2	0.876	2074015	675055	217	542	3111	1.61(1.33-1.79)	
PCB-9L											
234.0406	15:58	15:59	-1		5147891	1483695	1120	2800	1325		
236.0376	15:58	15:59	-1		3227571	920658	217	542	4243	1.59(1.33-1.79)	
PCB-8L											
234.0406	16:48	16:50	-2	1.200	2560875	700385	1120	2800	625		
236.0376	16:48	16:50	-2	1.200	1578679	440253	217	542	2029	1.62(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:53	19:54	-2	1.245	5569429	1333844	1120	2800	1191		
236.0376	19:53	19:54	-2	1.245	3379586	834330	217	542	3845	1.65(1.33-1.79)	
PCB-4											
222.0003	14:01	14:02	-1	1.002	1925034	613170	147	367	4171		
223.9974	14:01	14:02	-1	1.002	1202304	380856	252	630	1511	1.60(1.33-1.79)	
PCB-10											
222.0003	14:11	14:13	-2	1.013	3166372	1003249	147	367	6825		
223.9974	14:11	14:13	-2	1.013	1964404	631997	252	630	2508	1.61(1.33-1.79)	
PCB-9											
222.0003	15:59	16:00	-1	1.142	3056424	916469	147	367	6234		
223.9974	15:59	16:00	-1	1.142	1860477	551822	252	630	2190	1.64(1.33-1.79)	
PCB-7											
222.0003	16:09	16:10	-2	1.153	3100401	891503	147	367	6065		
223.9974	16:09	16:10	-2	1.153	1970071	559010	252	630	2218	1.57(1.33-1.79)	
PCB-6											
222.0003	16:23	16:25	-2	1.171	3081385	875858	147	367	5958		
223.9974	16:23	16:25	-2	1.171	1923116	542995	252	630	2155	1.60(1.33-1.79)	
PCB-5											
222.0003	16:42	16:43	-2	1.193	3041883	865913	147	367	5891		
223.9974	16:42	16:43	-2	1.193	1914725	543382	252	630	2156	1.59(1.33-1.79)	
PCB-8											
222.0003	16:50	16:50	-1	1.202	3269707	892828	147	367	6074		
223.9974	16:49	16:50	-2	1.201	2051178	550386	252	630	2184	1.59(1.33-1.79)	
PCB-14											
222.0003	18:27	18:28	-1	0.928	3077529	817580	147	367	5562		
223.9974	18:27	18:28	-1	0.928	1934500	501236	252	630	1989	1.59(1.33-1.79)	
PCB-11											
222.0003	19:17	19:18	-1	0.970	2956006	745986	147	367	5075		
223.9974	19:17	19:18	-1	0.970	1854907	474147	252	630	1882	1.59(1.33-1.79)	
PCB-12											
222.0003	19:35	19:36	-1	0.985	6551161	1073913	147	367	7306		
223.9974	19:35	19:36	-1	0.985	4132669	684210	252	630	2715	1.59(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:35	19:36	-1	0.985	6551161	1073913	147	367	7306		
223.9974	19:35	19:36	-1	0.985	4132669	684210	252	630	2715	1.59(1.33-1.79)	
PCB-15											
222.0003	19:54	19:55	-1	1.001	3350939	782858	147	367	5326		
223.9974	19:54	19:55	-1	1.001	2100253	483826	252	630	1920	1.60(1.33-1.79)	
PCB-19L											
268.0016	17:06	17:08	-2	0.840	1732998	475392	445	1112	1068		
269.9986	17:06	17:08	-2	0.840	1632215	450808	1019	2547	442	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:22	20:23	-1		2891371	674119	445	1112	1515		
269.9986	20:22	20:23	-1		2577913	644990	1019	2547	633	1.12(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:37	22:38	-1		8002433	1889916	810	2025	2333		
269.9986	22:37	22:38	-1		7616100	1792994	521	1302	3441	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:55	22:56	-1	1.013	3873743	895493	810	2025	1106		
269.9986	22:55	22:56	-1	1.013	3710266	837875	521	1302	1608	1.04(0.88-1.20)	
PCB-37L											
268.0016	26:54	26:55	-1	1.190	7101526	1479555	810	2025	1827		
269.9986	26:54	26:55	-1	1.190	6618455	1372655	521	1302	2635	1.07(0.88-1.20)	
PCB-19											
255.9613	17:08	17:09	-1	1.002	1046701	279702	211	527	1326		
257.9584	17:07	17:09	-2	1.001	1002607	271758	116	290	2343	1.04(0.88-1.20)	
PCB-18											
255.9613	18:57	18:59	-2	1.108	2781051	529177	211	527	2508		
257.9584	18:57	18:59	-2	1.108	2631238	493719	116	290	4256	1.06(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:57	18:59	-2	1.108	2781051	529177	211	527	2508		
257.9584	18:57	18:59	-2	1.108	2631238	493719	116	290	4256	1.06(0.88-1.20)	
PCB-17											
255.9613	19:24	19:26	-2	1.135	1202754	306907	211	527	1455		
257.9584	19:24	19:26	-2	1.135	1156970	293962	116	290	2534	1.04(0.88-1.20)	
PCB-27											
255.9613	19:38	19:39	-1	1.148	1582269	396871	211	527	1881		
257.9584	19:37	19:39	-2	1.147	1529902	372926	116	290	3215	1.03(0.88-1.20)	
PCB-24											
255.9613	19:45	19:46	-1	1.155	1504350	375414	211	527	1779		
257.9584	19:45	19:46	-1	1.155	1452149	376031	116	290	3242	1.04(0.88-1.20)	
PCB-16											
255.9613	19:52	19:53	-1	1.162	1030230	261432	211	527	1239		
257.9584	19:52	19:53	-1	1.162	976878	247521	116	290	2134	1.05(0.88-1.20)	
PCB-32											
255.9613	20:23	20:23	-1	1.192	1682114	415647	211	527	1970		
257.9584	20:23	20:23	-1	1.192	1604215	403987	116	290	3483	1.05(0.88-1.20)	
PCB-34											
255.9613	21:38	21:39	-1	1.265	3797306	924707	7638	19095	121		
257.9584	21:38	21:39	-1	1.265	3589367	879511	5579	13947	158	1.06(0.88-1.20)	
PCB-23											
255.9613	21:47	21:48	-1	1.274	3807327	894920	7638	19095	117		
257.9584	21:47	21:48	-1	1.274	3556237	839685	5579	13947	151	1.07(0.88-1.20)	
PCB-26											
255.9613	22:07	22:08	-1	1.293	7998616	1624921	7638	19095	213		
257.9584	22:07	22:08	-1	1.293	7587557	1580194	5579	13947	283	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:07	22:08	-1	1.293	7998616	1624921	7638	19095	213		
257.9584	22:07	22:08	-1	1.293	7587557	1580194	5579	13947	283	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:20	22:21	-1	0.830	4297437	911223	7638	19095	119		
257.9584	22:20	22:21	-1	0.830	4051255	853504	5579	13947	153	1.06(0.88-1.20)	
PCB-31											
255.9613	22:38	22:40	-2	0.841	4092978	943513	7638	19095	124		
257.9584	22:38	22:40	-2	0.841	3884694	904096	5579	13947	162	1.05(0.88-1.20)	
PCB-20											
255.9613	22:57	22:58	-1	0.853	8003444	1512347	7638	19095	198		
257.9584	22:57	22:58	-1	0.853	7546062	1449629	5579	13947	260	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:57	22:58	-1	0.853	8003444	1512347	7638	19095	198		
257.9584	22:57	22:58	-1	0.853	7546062	1449629	5579	13947	260	1.06(0.88-1.20)	
PCB-21											
255.9613	23:06	23:07	-1	0.859	7956098	1000870	7638	19095	131		M
257.9584	23:06	23:07	-1	0.859	7752210	969315	5579	13947	174	1.03(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:06	23:07	-1	0.859	7956098	1000870	7638	19095	131		M
257.9584	23:06	23:07	-1	0.859	7752210	969315	5579	13947	174	1.03(0.88-1.20)	M
PCB-22											
255.9613	23:34	23:35	-1	0.876	3655206	842267	7638	19095	110		
257.9584	23:34	23:35	-1	0.876	3485905	798810	5579	13947	143	1.05(0.88-1.20)	
PCB-36											
255.9613	25:08	25:09	-1	0.934	4540214	882522	7638	19095	116		
257.9584	25:08	25:09	-1	0.934	4070030	828526	5579	13947	149	1.12(0.88-1.20)	
PCB-39											
255.9613	25:29	25:30	-1	0.947	3760741	789234	7638	19095	103		
257.9584	25:29	25:30	-1	0.947	3631959	759447	5579	13947	136	1.04(0.88-1.20)	
PCB-38											
255.9613	26:04	26:05	-1	0.969	4102901	877260	7638	19095	115		
257.9584	26:04	26:05	-1	0.969	3855316	824339	5579	13947	148	1.06(0.88-1.20)	
PCB-35											
255.9613	26:31	26:32	-1	0.986	3921309	785906	7638	19095	103		
257.9584	26:31	26:32	-1	0.986	3666883	736665	5579	13947	132	1.07(0.88-1.20)	
PCB-37											
255.9613	26:56	26:57	-1	1.001	4057382	824639	7638	19095	108		
257.9584	26:56	26:57	-1	1.001	3810791	794829	5579	13947	142	1.06(0.88-1.20)	
PCB-54L											
301.9626	20:11	20:12	-2	0.815	1418019	347973	146	365	2383		
303.9597	20:11	20:12	-2	0.815	1732097	439160	8	20	54895	0.82(0.65-0.89)	
PCB-52L											
301.9626	24:45	24:46	-2		3456171	771135	1272	3180	606		
303.9597	24:45	24:46	-2		4327654	957616	1796	4490	533	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.971	2192285	441931	1272	3180	347		
303.9597	32:40	32:41	-1	0.970	2733038	553333	1796	4490	308	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:40	33:41	-1	1.360	4308382	864591	1272	3180	680		
303.9597	33:40	33:41	-1	1.360	5338051	1056607	1796	4490	588	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:13	34:14	-1	1.383	4563300	872792	1272	3180	686		
303.9597	34:13	34:14	-1	1.383	5699685	1099462	1796	4490	612	0.80(0.65-0.89)	
PCB-54											
289.9224	20:12	20:13	-1	1.000	1939754	496773	183	457	2715		
291.9194	20:12	20:13	-1	1.000	2448222	619151	192	480	3225	0.79(0.65-0.89)	
PCB-50											
289.9224	22:23	22:24	-1	1.109	7508551	1520529	3079	7697	494		
291.9194	22:23	22:24	-1	1.109	9511752	1951569	3640	9100	536	0.79(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:23	22:24	-1	1.109	7508551	1520529	3079	7697	494		
291.9194	22:23	22:24	-1	1.109	9511752	1951569	3640	9100	536	0.79(0.65-0.89)	
PCB-45											
289.9224	23:06	23:08	-2	1.145	7266784	922591	3079	7697	300		M
291.9194	23:06	23:08	-2	1.145	9147858	1162065	3640	9100	319	0.79(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:06	23:08	-2	1.145	7266784	922591	3079	7697	300		M
291.9194	23:06	23:08	-2	1.145	9147858	1162065	3640	9100	319	0.79(0.65-0.89)	M
PCB-46											
289.9224	23:21	23:22	-1	1.157	3391513	798861	3079	7697	259		
291.9194	23:21	23:22	-1	1.157	4288607	1003242	3640	9100	276	0.79(0.65-0.89)	
PCB-52											
289.9224	24:46	24:47	-1	1.228	3687517	835179	3079	7697	271		
291.9194	24:46	24:47	-1	1.228	4617995	1048972	3640	9100	288	0.80(0.65-0.89)	
PCB-43											
289.9224	24:55	24:56	-1	1.235	8232470	1181226	3079	7697	384		M
291.9194	24:55	24:56	-2	1.235	10423848	1485849	3640	9100	408	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:55	24:56	-1	1.235	8232470	1181226	3079	7697	384		M
291.9194	24:55	24:56	-2	1.235	10423848	1485849	3640	9100	408	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:13	25:14	-1	1.250	9217804	1370345	3079	7697	445		
291.9194	25:13	25:14	-1	1.250	11675600	1750179	3640	9100	481	0.79(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:13	25:14	-1	1.250	9217804	1370345	3079	7697	445		
291.9194	25:13	25:14	-1	1.250	11675600	1750179	3640	9100	481	0.79(0.65-0.89)	
PCB-48											
289.9224	25:32	25:33	-1	1.266	3761963	851454	3079	7697	277		
291.9194	25:32	25:33	-1	1.266	4776969	1070664	3640	9100	294	0.79(0.65-0.89)	
PCB-44											
289.9224	25:47	25:48	-1	1.278	12479341	2247450	3079	7697	730		
291.9194	25:47	25:48	-1	1.278	15669252	2847732	3640	9100	782	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:47	25:48	-1	1.278	12479341	2247450	3079	7697	730		
291.9194	25:47	25:48	-1	1.278	15669252	2847732	3640	9100	782	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:47	25:48	-1	1.278	12479341	2247450	3079	7697	730		
291.9194	25:47	25:48	-1	1.278	15669252	2847732	3640	9100	782	0.80(0.65-0.89)	
PCB-59											
289.9224	26:05	26:06	-1	1.293	15647059	2235842	3079	7697	726		
291.9194	26:05	26:06	-1	1.293	19633255	2829582	3640	9100	777	0.80(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:05	26:06	-1	1.293	15647059	2235842	3079	7697	726		
291.9194	26:05	26:06	-1	1.293	19633255	2829582	3640	9100	777	0.80(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:05	26:06	-1	1.293	15647059	2235842	3079	7697	726		
291.9194	26:05	26:06	-1	1.293	19633255	2829582	3640	9100	777	0.80(0.65-0.89)	
PCB-42											
289.9224	26:18	26:18	-1	1.303	3359085	745228	3079	7697	242		
291.9194	26:18	26:18	-1	1.303	4345339	956578	3640	9100	263	0.77(0.65-0.89)	
PCB-40											
289.9224	26:47	26:48	-2	1.327	11455207	1738694	3079	7697	565		M
291.9194	26:47	26:48	-2	1.327	14336238	2175715	3640	9100	598	0.80(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:47	26:48	-2	1.327	11455207	1738694	3079	7697	565		M
291.9194	26:47	26:48	-2	1.327	14336238	2175715	3640	9100	598	0.80(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:47	26:48	-2	1.327	11455207	1738694	3079	7697	565		M
291.9194	26:47	26:48	-2	1.327	14336238	2175715	3640	9100	598	0.80(0.65-0.89)	M
PCB-64											
289.9224	27:00	27:01	-1	1.338	5246898	1140770	3079	7697	371		
291.9194	27:00	27:01	-1	1.338	6710017	1452540	3640	9100	399	0.78(0.65-0.89)	
PCB-72											
289.9224	27:50	27:51	-1	0.827	5289603	1145156	3079	7697	372		
291.9194	27:50	27:51	-1	0.827	6565324	1425591	3640	9100	392	0.81(0.65-0.89)	
PCB-68											
289.9224	28:07	28:09	-2	0.835	5656579	1099567	3079	7697	357		
291.9194	28:07	28:09	-2	0.835	7021477	1397838	3640	9100	384	0.81(0.65-0.89)	
PCB-57											
289.9224	28:33	28:34	-1	0.848	5039105	1076197	3079	7697	350		
291.9194	28:33	28:34	-1	0.848	6358102	1375881	3640	9100	378	0.79(0.65-0.89)	
PCB-58											
289.9224	28:47	28:48	-1	0.855	5176893	1063979	3079	7697	346		
291.9194	28:47	28:48	-1	0.855	6482361	1333018	3640	9100	366	0.80(0.65-0.89)	
PCB-67											
289.9224	28:57	28:58	-1	0.860	6227236	1210732	3079	7697	393		
291.9194	28:57	28:58	-1	0.860	7881492	1546045	3640	9100	425	0.79(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:13	29:14	-1	0.868	5423527	1089464	3079	7697	354		
291.9194	29:13	29:14	-1	0.868	6835826	1372350	3640	9100	377	0.79(0.65-0.89)	
PCB-61											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:33	29:34	-1	0.878	20914188	2330691	3079	7697	757		
291.9194	29:33	29:34	-1	0.878	26506002	2975026	3640	9100	817	0.79(0.65-0.89)	
PCB-66											
289.9224	29:52	29:53	-1	0.887	5322566	1060845	3079	7697	345		
291.9194	29:52	29:53	-1	0.887	6704633	1361616	3640	9100	374	0.79(0.65-0.89)	
PCB-55											
289.9224	30:02	30:03	0	0.892	4892403	1008379	3079	7697	328		
291.9194	30:02	30:03	-1	0.892	6160897	1266861	3640	9100	348	0.79(0.65-0.89)	
PCB-56											
289.9224	30:32	30:33	-1	0.907	4870744	1000617	3079	7697	325		
291.9194	30:33	30:33	0	0.908	6194598	1259566	3640	9100	346	0.79(0.65-0.89)	
PCB-60											
289.9224	30:45	30:46	-1	0.914	5172901	1057678	3079	7697	344		
291.9194	30:45	30:46	-1	0.914	6541963	1324261	3640	9100	364	0.79(0.65-0.89)	
PCB-80											
289.9224	31:10	31:11	-1	0.926	6237956	1241113	3079	7697	403		
291.9194	31:10	31:11	-1	0.926	7842689	1574931	3640	9100	433	0.80(0.65-0.89)	
PCB-79											
289.9224	32:41	32:42	-1	0.971	6199108	1193231	3079	7697	388		
291.9194	32:41	32:42	-1	0.971	7736368	1491950	3640	9100	410	0.80(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.988	4701413	887555	3079	7697	288		
291.9194	33:15	33:15	0	0.988	5901427	1157905	3640	9100	318	0.80(0.65-0.89)	
PCB-81											
289.9224	33:41	33:42	-1	1.001	4661203	888530	3079	7697	289		
291.9194	33:41	33:42	-1	1.001	5779312	1112088	3640	9100	306	0.81(0.65-0.89)	
PCB-77											
289.9224	34:15	34:16	-1	1.001	5090422	986507	3079	7697	320		
291.9194	34:15	34:16	-1	1.001	6437066	1241053	3640	9100	341	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:41	25:42	-1	0.813	3945007	897940	86	215	10441		
339.9178	25:41	25:42	-1	0.813	2476076	561112	94	235	5969	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:40	28:41	-1	1.116	1377977	294169	86	215	3421		
339.9178	28:40	28:41	-1	1.116	862101	191325	94	235	2035	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:37	-1		3180729	645710	86	215	7508		
339.9178	31:36	31:37	-1		1998189	400831	94	235	4264	1.59(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	2075145	417586	86	215	4856		
339.9178	34:16	34:17	-1	1.085	1276281	263893	94	235	2807	1.63(1.32-1.78)	
PCB-123L											
337.9207	36:14	36:15	0	1.147	5869660	1170803	5247	13117	223		
339.9178	36:14	36:15	0	1.147	3703122	739285	3633	9082	203	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	6143066	1196225	5247	13117	228		
339.9178	36:34	36:34	0	1.157	3864671	754827	3633	9082	208	1.59(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.174	5991890	1148412	5247	13117	219		
339.9178	37:05	37:06	-1	1.173	3803468	734858	3633	9082	202	1.58(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:45	0	1.194	5801657	1127585	5247	13117	215		
339.9178	37:44	37:45	0	1.194	3616723	707507	3633	9082	195	1.60(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		6084552	1180716	5247	13117	225		
339.9178	39:13	39:14	-1		3822750	741401	3633	9082	204	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	5820339	1092467	5247	13117	208		
339.9178	40:49	40:50	-1	1.292	3665908	691827	3633	9082	190	1.59(1.32-1.78)	
PCB-104											
325.8804	25:43	25:44	-1	1.001	4970315	1094090	175	437	6252		
327.8775	25:43	25:44	-1	1.001	3141200	689066	150	375	4594	1.58(1.32-1.78)	
PCB-96											
325.8804	26:04	26:06	-2	1.015	3965677	853238	175	437	4876		
327.8775	26:04	26:06	-2	1.015	2528306	543557	150	375	3624	1.57(1.32-1.78)	
PCB-103											
325.8804	28:01	28:02	-1	1.091	3292810	688553	175	437	3935		
327.8775	28:01	28:02	-1	1.091	2069502	436911	150	375	2913	1.59(1.32-1.78)	
PCB-94											
325.8804	28:15	28:16	-1	1.100	3124029	645282	175	437	3687		
327.8775	28:14	28:16	-2	1.099	1996352	416634	150	375	2778	1.56(1.32-1.78)	
PCB-95											
325.8804	28:41	28:42	-1	1.117	2870473	604866	175	437	3456		
327.8775	28:41	28:42	-1	1.117	1824852	382101	150	375	2547	1.57(1.32-1.78)	
PCB-93											
325.8804	28:54	28:55	-1	1.125	6945007	1409471	175	437	8054		
327.8775	28:54	28:55	-1	1.125	4392831	893198	150	375	5955	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:54	28:55	-1	1.125	6945007	1409471	175	437	8054		
327.8775	28:54	28:55	-1	1.125	4392831	893198	150	375	5955	1.58(1.32-1.78)	
PCB-98											
325.8804	29:03	29:04	-1	1.131	6677250	814225	175	437	4653		M
327.8775	29:03	29:04	-1	1.131	4268659	526991	150	375	3513	1.56(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:03	29:04	-1	1.131	6677250	814225	175	437	4653		M
327.8775	29:03	29:04	-1	1.131	4268659	526991	150	375	3513	1.56(1.32-1.78)	M
PCB-88											
325.8804	29:33	29:33	-1	1.150	6287512	723191	175	437	4133		
327.8775	29:33	29:33	-1	1.150	3972691	461744	150	375	3078	1.58(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	-1	1.150	6287512	723191	175	437	4133		
327.8775	29:33	29:33	-1	1.150	3972691	461744	150	375	3078	1.58(1.32-1.78)	
PCB-84											
325.8804	29:46	29:47	-1	1.159	3225200	646939	175	437	3697		
327.8775	29:46	29:47	-1	1.159	1996360	401164	150	375	2674	1.62(1.32-1.78)	
PCB-89											
325.8804	30:15	30:16	-1	1.177	2719038	558420	175	437	3191		
327.8775	30:15	30:16	-1	1.177	1761051	356973	150	375	2380	1.54(1.32-1.78)	
PCB-121											
325.8804	30:40	30:41	-1	1.194	4634993	969529	175	437	5540		
327.8775	30:40	30:41	-1	1.194	2898949	600754	150	375	4005	1.60(1.32-1.78)	
PCB-92											
325.8804	31:02	31:03	-1	0.856	2864439	576958	175	437	3297		
327.8775	31:02	31:03	-1	0.856	1817184	361184	150	375	2408	1.58(1.32-1.78)	
PCB-90											
325.8804	31:37	31:37	0	1.231	11516863	1724783	175	437	9856		
327.8775	31:37	31:37	0	1.231	7290443	1071998	150	375	7147	1.58(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	0	1.231	11516863	1724783	175	437	9856		
327.8775	31:37	31:37	0	1.231	7290443	1071998	150	375	7147	1.58(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	0	1.231	11516863	1724783	175	437	9856		
327.8775	31:37	31:37	0	1.231	7290443	1071998	150	375	7147	1.58(1.32-1.78)	
PCB-83											
325.8804	32:12	32:13	-1	1.254	6253236	769809	175	437	4399		
327.8775	32:12	32:13	-1	1.254	3954490	483126	150	375	3221	1.58(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:13	-1	1.254	6253236	769809	175	437	4399		
327.8775	32:12	32:13	-1	1.254	3954490	483126	150	375	3221	1.58(1.32-1.78)	
PCB-112											
325.8804	32:19	32:20	-1	1.258	5101475	998365	175	437	5705		
327.8775	32:19	32:20	-1	1.258	3186136	628612	150	375	4191	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:41	32:42	-1	1.272	23519251	2503396	175	437	14305		M
327.8775	32:41	32:42	-1	1.272	15057631	1557378	150	375	10383	1.56(1.32-1.78)	M
PCB-85											
325.8804	33:24	33:25	-1	1.300	12280070	1489665	175	437	8512		
327.8775	33:24	33:25	-1	1.300	7739748	938017	150	375	6253	1.59(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:24	33:25	-1	1.300	12280070	1489665	175	437	8512		
327.8775	33:24	33:25	-1	1.300	7739748	938017	150	375	6253	1.59(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:24	33:25	-1	1.300	12280070	1489665	175	437	8512		
327.8775	33:24	33:25	-1	1.300	7739748	938017	150	375	6253	1.59(1.32-1.78)	
PCB-110											
325.8804	33:37	33:37	0	1.308	8804870	1025036	175	437	5857		
327.8775	33:37	33:37	0	1.308	5555673	659284	150	375	4395	1.58(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:37	33:37	0	1.308	8804870	1025036	175	437	5857		
327.8775	33:37	33:37	0	1.308	5555673	659284	150	375	4395	1.58(1.32-1.78)	
PCB-82											
325.8804	33:54	33:55	-1	1.320	2950994	544151	175	437	3109		
327.8775	33:54	33:55	-1	1.320	1863858	342832	150	375	2286	1.58(1.32-1.78)	
PCB-111											
325.8804	34:18	34:19	-1	1.335	4776944	953835	175	437	5450		
327.8775	34:18	34:19	-1	1.335	3054108	601055	150	375	4007	1.56(1.32-1.78)	
PCB-120											
325.8804	34:46	34:47	-1	1.353	4605720	900570	175	437	5146		
327.8775	34:46	34:47	-1	1.353	2892227	572211	150	375	3815	1.59(1.32-1.78)	
PCB-108											
325.8804	35:54	35:55	-1	1.397	12878349	2458421	6049	15122	406		
327.8775	35:54	35:55	-1	1.397	8216796	1564060	4524	11310	346	1.57(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:54	35:55	-1	1.397	12878349	2458421	6049	15122	406		
327.8775	35:54	35:55	-1	1.397	8216796	1564060	4524	11310	346	1.57(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.407	7924661	1469063	6049	15122	243		
327.8775	36:09	36:09	0	1.407	5082789	950730	4524	11310	210	1.56(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.001	6845228	1322505	6049	15122	219		
327.8775	36:16	36:16	0	1.001	4352617	836312	4524	11310	185	1.57(1.32-1.78)	
PCB-106											
325.8804	36:22	36:23	-1	1.004	6125838	1201365	6049	15122	199		
327.8775	36:22	36:23	-1	1.004	3876411	760237	4524	11310	168	1.58(1.32-1.78)	
PCB-118											
325.8804	36:35	36:36	-1	1.000	7093346	1292708	6049	15122	214		
327.8775	36:35	36:36	-1	1.000	4560358	828709	4524	11310	183	1.56(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	4868640	945045	6049	15122	156		
327.8775	36:56	36:56	0	1.010	3091849	615669	4524	11310	136	1.57(1.32-1.78)	
PCB-114											
325.8804	37:06	37:08	-1	1.000	7173348	1322839	6049	15122	219		
327.8775	37:06	37:08	-1	1.000	4560788	848772	4524	11310	188	1.57(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	5830889	1039658	6049	15122	172		
327.8775	37:45	37:46	-1	1.000	3766190	674957	4524	11310	149	1.55(1.32-1.78)	
PCB-127											
325.8804	39:14	39:15	0	1.040	6722234	1205018	6049	15122	199		
327.8775	39:14	39:15	0	1.040	4190045	767073	4524	11310	170	1.60(1.32-1.78)	
PCB-126											
325.8804	40:50	40:52	-1	1.000	6710597	1146373	6049	15122	190		
327.8775	40:50	40:52	-1	1.000	4255402	738709	4524	11310	163	1.58(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:23	-1	0.790	3236837	659635	51	127	12934		
373.8788	31:22	31:23	-1	0.790	2497553	519602	33	82	15746	1.30(1.05-1.43)	
PCB-153L											
371.8817	38:27	38:27	0	0.900	1886831	360399	165	412	2184		
373.8788	38:27	38:27	0	0.900	1456597	277060	1856	4640	149	1.30(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		3681908	707682	165	412	4289		
373.8788	39:41	39:41	0		2882024	545586	1856	4640	294	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:56	41:56	0	0.982	4312836	821131	165	412	4977		
373.8788	41:55	41:56	-1	0.982	3318028	629774	1856	4640	339	1.30(0.00-0.00)	
PCB-167L											
371.8817	42:42	42:42	0	1.076	4782672	899237	165	412	5450		
373.8788	42:42	42:42	0	1.076	3662622	690148	1856	4640	372	1.31(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-156L											
371.8817	43:50	43:51	0	1.105	9039628	1181674	165	412	7162		
373.8788	43:50	43:51	0	1.105	7055019	928275	1856	4640	500	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:50	43:51	0	1.105	9039628	1181674	165	412	7162		
373.8788	43:50	43:51	0	1.105	7055019	928275	1856	4640	500	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:04	47:05	0	1.186	4621255	858979	165	412	5206		
373.8788	47:04	47:05	0	1.186	3586024	671593	1856	4640	362	1.29(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	3423414	679395	208	520	3266		
361.8385	31:24	31:25	-1	1.001	2666664	538086	147	367	3660	1.28(1.05-1.43)	
PCB-152											
359.8415	31:35	31:36	0	1.007	3047507	619126	208	520	2977		
361.8385	31:35	31:36	0	1.007	2403304	491932	147	367	3346	1.27(1.05-1.43)	
PCB-150											
359.8415	31:45	31:46	-1	1.012	3408883	678983	208	520	3264		
361.8385	31:45	31:46	-1	1.012	2718475	547506	147	367	3725	1.25(1.05-1.43)	
PCB-136											
359.8415	32:07	32:08	-1	1.024	3112024	624136	208	520	3001		
361.8385	32:07	32:08	-1	1.024	2429549	485399	147	367	3302	1.28(1.05-1.43)	
PCB-145											
359.8415	32:24	32:25	-1	1.033	3252992	638880	208	520	3072		
361.8385	32:25	32:25	0	1.033	2587869	504483	147	367	3432	1.26(1.05-1.43)	
PCB-148											
359.8415	33:56	33:57	-1	1.082	2286267	460304	208	520	2213		
361.8385	33:56	33:57	-1	1.082	1825352	366935	147	367	2496	1.25(1.05-1.43)	
PCB-135											
359.8415	34:34	34:32	2	1.102	4550681	501980	208	520	2413		M
361.8385	34:34	34:32	2	1.102	3613466	404607	147	367	2752	1.26(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:34	34:32	2	1.102	4550681	501980	208	520	2413		M
361.8385	34:34	34:32	2	1.102	3613466	404607	147	367	2752	1.26(1.05-1.43)	M
PCB-154											
359.8415	34:46	34:47	-1	1.108	3043947	607352	208	520	2920		
361.8385	34:46	34:47	-1	1.108	2432636	480602	147	367	3269	1.25(1.05-1.43)	
PCB-144											
359.8415	35:05	35:06	-1	1.118	2335991	461355	208	520	2218		
361.8385	35:05	35:06	-1	1.118	1822473	361277	147	367	2458	1.28(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	8267625	1672589	2719	6797	615		
361.8385	35:27	35:27	0	1.130	6580162	1334929	1886	4715	708	1.26(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	8267625	1672589	2719	6797	615		
361.8385	35:27	35:27	0	1.130	6580162	1334929	1886	4715	708	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-134											
359.8415	35:44	35:45	-1	1.139	6668754	684003	2719	6797	252		
361.8385	35:44	35:45	-1	1.139	5320146	532316	1886	4715	282	1.25(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:44	35:45	-1	1.139	6668754	684003	2719	6797	252		
361.8385	35:44	35:45	-1	1.139	5320146	532316	1886	4715	282	1.25(1.05-1.43)	
PCB-139											
359.8415	36:02	36:04	-1	1.149	8260616	1460924	2719	6797	537		
361.8385	36:02	36:04	-1	1.149	6666800	1168612	1886	4715	620	1.24(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:02	36:04	-1	1.149	8260616	1460924	2719	6797	537		
361.8385	36:02	36:04	-1	1.149	6666800	1168612	1886	4715	620	1.24(1.05-1.43)	
PCB-131											
359.8415	36:14	36:15	-1	1.155	3399023	659195	2719	6797	242		
361.8385	36:14	36:15	-1	1.155	2726572	530364	1886	4715	281	1.25(1.05-1.43)	
PCB-142											
359.8415	36:23	36:24	-1	1.160	3172191	626792	2719	6797	231		
361.8385	36:23	36:24	-1	1.160	2566105	514056	1886	4715	273	1.24(1.05-1.43)	
PCB-132											
359.8415	36:42	36:43	-1	1.170	3498390	683595	2719	6797	251		
361.8385	36:42	36:43	-1	1.170	2830917	557675	1886	4715	296	1.24(1.05-1.43)	
PCB-133											
359.8415	37:13	37:14	-1	1.186	3472826	659110	2719	6797	242		
361.8385	37:13	37:14	-1	1.186	2809754	532295	1886	4715	282	1.24(1.05-1.43)	
PCB-165											
359.8415	37:36	37:37	0	0.881	4724402	934644	2719	6797	344		
361.8385	37:36	37:37	0	0.881	3752845	740627	1886	4715	393	1.26(1.05-1.43)	
PCB-146											
359.8415	37:51	37:52	-1	0.887	4519906	873952	2719	6797	321		
361.8385	37:51	37:52	-1	0.887	3641481	702218	1886	4715	372	1.24(1.05-1.43)	
PCB-161											
359.8415	37:59	38:00	0	0.890	5166670	1028442	2719	6797	378		
361.8385	37:59	38:00	0	0.890	4137732	820414	1886	4715	435	1.25(1.05-1.43)	
PCB-153											
359.8415	38:30	38:30	0	0.902	9632697	1396569	2719	6797	514		
361.8385	38:30	38:30	0	0.902	7705323	1111468	1886	4715	589	1.25(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:30	38:30	0	0.902	9632697	1396569	2719	6797	514		
361.8385	38:30	38:30	0	0.902	7705323	1111468	1886	4715	589	1.25(1.05-1.43)	
PCB-141											
359.8415	38:39	38:41	-1	0.905	4356749	803270	2719	6797	295		
361.8385	38:39	38:41	-1	0.905	3500008	641579	1886	4715	340	1.24(1.05-1.43)	
PCB-130											
359.8415	39:04	39:05	-1	0.915	3392503	654070	2719	6797	241		
361.8385	39:04	39:05	-1	0.915	2726978	522713	1886	4715	277	1.24(1.05-1.43)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-137											
359.8415	39:17	39:18	0	0.920	3740933	745496	2719	6797	274		
361.8385	39:17	39:18	0	0.920	3080372	605157	1886	4715	321	1.21(1.05-1.43)	
PCB-164											
359.8415	39:24	39:26	-1	0.923	5553440	1057763	2719	6797	389		
361.8385	39:24	39:26	-1	0.923	4441926	833843	1886	4715	442	1.25(1.05-1.43)	
PCB-129											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:43	39:44	0	0.930	17023216	1862257	2719	6797	685		M
361.8385	39:43	39:44	0	0.930	13549137	1485875	1886	4715	788	1.26(1.05-1.43)	M
PCB-158											
359.8415	40:06	40:07	0	0.939	6236353	1132240	2719	6797	416		
361.8385	40:05	40:07	-1	0.939	5021743	895627	1886	4715	475	1.24(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	9265833	1358905	2719	6797	500		
361.8385	40:56	40:57	-1	0.959	7448780	1086387	1886	4715	576	1.24(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	9265833	1358905	2719	6797	500		
361.8385	40:56	40:57	-1	0.959	7448780	1086387	1886	4715	576	1.24(1.05-1.43)	
PCB-159											
359.8415	41:57	41:58	-1	0.982	5530168	1041554	2719	6797	383		
361.8385	41:57	41:58	-1	0.982	4484633	839095	1886	4715	445	1.23(1.05-1.43)	
PCB-162											
359.8415	42:14	42:15	-1	0.989	5643066	1004015	2719	6797	369		
361.8385	42:14	42:15	-1	0.989	4639906	810778	1886	4715	430	1.22(1.05-1.43)	
PCB-167											
359.8415	42:43	42:44	0	1.001	5427011	1011850	2719	6797	372		
361.8385	42:43	42:44	0	1.001	4425929	829096	1886	4715	440	1.23(1.05-1.43)	
PCB-156											
359.8415	43:52	43:53	-1	1.001	10127265	1339171	2719	6797	493		
361.8385	43:51	43:53	-2	1.000	8151741	1066491	1886	4715	565	1.24(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:52	43:53	-1	1.001	10127265	1339171	2719	6797	493		
361.8385	43:51	43:53	-2	1.000	8151741	1066491	1886	4715	565	1.24(1.05-1.43)	
PCB-169											
359.8415	47:05	47:06	-1	1.000	5277331	919179	2719	6797	338		
361.8385	47:05	47:06	-1	1.000	4171533	719310	1886	4715	381	1.27(1.05-1.43)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-188L											
405.8428	37:06	37:07	-1	0.820	3378327	667769	50	125	13355		
407.8398	37:06	37:07	-1	0.820	3231635	643310	62	155	10376	1.05(0.89-1.21)	
PCB-178L											
405.8428	40:09	40:10	-1	0.887	1238512	231317	50	125	4626		
407.8398	40:09	40:10	-1	0.887	1179767	230498	62	155	3718	1.05(0.89-1.21)	
PCB-180L											
405.8428	45:14	45:15	-1		2609315	490821	50	125	9816		
407.8398	45:14	45:15	-1		2456998	454151	62	155	7325	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:29	46:30	-1	1.028	2172983	407370	50	125	8147		
407.8398	46:30	46:30	0	1.028	2004020	373735	62	155	6028	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:36	49:37	-1	1.097	5352309	993846	1111	2777	895		
407.8398	49:36	49:37	-1	1.097	5022734	914139	1909	4772	479	1.07(0.89-1.21)	
PCB-188											
393.8025	37:07	37:08	-1	1.001	3750366	746036	90	225	8289		
395.7995	37:07	37:08	-1	1.001	3479940	695531	185	462	3760	1.08(0.89-1.21)	
PCB-179											
393.8025	37:27	37:28	-1	1.010	3776100	716036	90	225	7956		
395.7995	37:27	37:28	-1	1.010	3534584	673941	185	462	3643	1.07(0.89-1.21)	
PCB-184											
393.8025	37:58	38:00	-1	1.024	3972950	758687	90	225	8430		
395.7995	37:58	38:00	-1	1.024	3799236	730690	185	462	3950	1.05(0.89-1.21)	
PCB-176											
393.8025	38:20	38:21	-1	1.033	3724635	705192	90	225	7835		
395.7995	38:20	38:21	-1	1.033	3499013	665545	185	462	3598	1.06(0.89-1.21)	
PCB-186											
393.8025	38:47	38:48	0	1.046	3607055	686680	90	225	7630		
395.7995	38:47	38:48	0	1.046	3484408	662988	185	462	3584	1.04(0.89-1.21)	
PCB-178											
393.8025	40:10	40:11	-1	1.083	2598475	494710	90	225	5497		
395.7995	40:10	40:11	-1	1.083	2455883	461843	185	462	2496	1.06(0.89-1.21)	
PCB-175											
393.8025	40:48	40:49	-1	1.100	2789029	529892	90	225	5888		
395.7995	40:48	40:49	-1	1.100	2636766	499737	185	462	2701	1.06(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	2968885	541557	90	225	6017		
395.7995	41:05	41:05	0	1.107	2781776	534149	185	462	2887	1.07(0.89-1.21)	
PCB-182											
393.8025	41:16	41:18	-1	1.113	3074190	588191	90	225	6535		
395.7995	41:16	41:18	-1	1.113	2904263	557135	185	462	3012	1.06(0.89-1.21)	
PCB-183											
393.8025	41:41	41:42	-1	1.124	5668555	606402	90	225	6738		M
395.7995	41:41	41:42	-1	1.124	5446408	560626	185	462	3030	1.04(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-185 (C183)											M
393.8025	41:41	41:42	-1	1.124	5668555	606402	90	225	6738		M
395.7995	41:41	41:42	-1	1.124	5446408	560626	185	462	3030	1.04(0.89-1.21)	M
PCB-174											
393.8025	41:55	41:56	-1	1.130	2954114	568489	90	225	6317		
395.7995	41:55	41:56	-1	1.130	2758639	534835	185	462	2891	1.07(0.89-1.21)	
PCB-177											
393.8025	42:21	42:22	-1	1.142	2598761	478406	90	225	5316		
395.7995	42:21	42:22	-1	1.142	2635454	451016	185	462	2438	0.99(0.89-1.21)	
PCB-181											
393.8025	42:45	42:45	0	1.152	2704744	510664	90	225	5674		
395.7995	42:45	42:45	0	1.152	2545208	488044	185	462	2638	1.06(0.89-1.21)	
PCB-171											
393.8025	42:58	42:59	0	1.159	5228087	848459	90	225	9427		
395.7995	42:58	42:59	0	1.159	4966224	788943	185	462	4265	1.05(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:59	0	1.159	5228087	848459	90	225	9427		
395.7995	42:58	42:59	0	1.159	4966224	788943	185	462	4265	1.05(0.89-1.21)	
PCB-172											
393.8025	44:36	44:37	-1	0.899	2565831	469395	90	225	5216		
395.7995	44:37	44:37	0	0.899	2444996	452663	185	462	2447	1.05(0.89-1.21)	
PCB-192											
393.8025	44:53	44:54	-1	0.905	3309907	616848	90	225	6854		
395.7995	44:53	44:54	-1	0.905	3098072	579332	185	462	3132	1.07(0.89-1.21)	
PCB-180											
393.8025	45:13	45:14	-1	0.912	6860897	911561	90	225	10128		
395.7995	45:13	45:14	-1	0.912	6487196	871309	185	462	4710	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:13	45:14	-1	0.912	6860897	911561	90	225	10128		
395.7995	45:13	45:14	-1	0.912	6487196	871309	185	462	4710	1.06(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.920	3696851	689822	90	225	7665		
395.7995	45:37	45:37	0	0.920	3502388	644505	185	462	3484	1.06(0.89-1.21)	
PCB-170											
393.8025	46:30	46:32	-1	0.938	2657108	490977	90	225	5455		
395.7995	46:30	46:32	-1	0.938	2557492	473371	185	462	2559	1.04(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	3605706	656895	90	225	7299		
395.7995	47:02	47:02	0	0.948	3391974	623690	185	462	3371	1.06(0.89-1.21)	
PCB-189											
393.8025	49:38	49:38	0	1.001	5461066	973634	938	2345	1038		
395.7995	49:38	49:38	0	1.001	5205243	945731	667	1667	1418	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:27	42:28	0	0.821	2329254	446693	28	70	15953		
441.8008	42:27	42:28	0	0.821	2593838	485378	24	60	20224	0.90(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-194L											
439.8038	51:43	51:43	0		3382819	627342	122	305	5142		
441.8008	51:43	51:43	0		3726547	691291	321	802	2154	0.91(0.76-1.02)	
PCB-205L											
439.8038	52:10	52:11	-1	1.009	4062544	730307	122	305	5986		
441.8008	52:11	52:11	0	1.009	4435948	797659	321	802	2485	0.92(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	4016801	755995	82	205	9219		
429.7606	42:29	42:29	0	1.001	4451936	853705	140	350	6098	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:25	0	1.022	4156385	799459	82	205	9750		
429.7606	43:24	43:25	0	1.022	4573618	864876	140	350	6178	0.91(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	4032845	761792	82	205	9290		
429.7606	44:05	44:05	0	1.038	4409365	830238	140	350	5930	0.91(0.76-1.02)	
PCB-197											
427.7635	44:18	44:19	-1	1.043	3736624	734663	82	205	8959		
429.7606	44:18	44:19	-1	1.043	4176178	829326	140	350	5924	0.89(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	3946314	723429	82	205	8822		
429.7606	44:24	44:25	-1	1.046	4334271	788726	140	350	5634	0.91(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.112	5393438	673383	82	205	8212		
429.7606	47:12	47:12	0	1.112	5988534	737056	140	350	5265	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.112	5393438	673383	82	205	8212		
429.7606	47:12	47:12	0	1.112	5988534	737056	140	350	5265	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.918	2895071	536113	82	205	6538		
429.7606	47:53	47:53	0	0.918	3243911	599537	140	350	4282	0.89(0.76-1.02)	
PCB-203											
427.7635	48:04	48:05	-1	0.921	3025190	547111	82	205	6672		
429.7606	48:04	48:05	-1	0.921	3311777	605013	140	350	4322	0.91(0.76-1.02)	
PCB-195											
427.7635	49:23	49:23	0	0.946	4733065	847348	895	2237	947		
429.7606	49:23	49:23	0	0.946	5271407	964193	757	1892	1274	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.992	5467988	1007507	895	2237	1126		
429.7606	51:44	51:44	0	0.992	6034350	1121390	757	1892	1481	0.91(0.76-1.02)	
PCB-205											
427.7635	52:12	52:13	-1	1.000	6798161	1208832	895	2237	1351		
429.7606	52:12	52:13	-1	1.000	7544909	1343915	757	1892	1775	0.90(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	3041296	547519	561	1402	976		
475.7619	49:08	49:09	-1	0.950	3719101	685364	682	1705	1005	0.82(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
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## PCB-206L

473.7648	53:56	53:57	0	1.043	2275732	420434	561	1402	749		
475.7619	53:56	53:57	0	1.043	2787066	500674	682	1705	734	0.82(0.65-0.89)	

## PCB-208

461.7246	49:09	49:10	-1	1.000	4971587	912861	865	2162	1055		
463.7216	49:09	49:10	-1	1.000	6397994	1174241	1097	2742	1070	0.78(0.65-0.89)	

## PCB-207

461.7246	50:05	50:05	0	1.019	5118756	951202	865	2162	1100		
463.7216	50:05	50:05	0	1.019	6470418	1179746	1097	2742	1075	0.79(0.65-0.89)	

## PCB-206

461.7246	53:57	53:58	-1	1.000	3990172	711220	865	2162	822		
463.7216	53:57	53:58	-1	1.000	5008722	906973	1097	2742	827	0.80(0.65-0.89)	

## PCB-209L

507.7258	55:34	55:34	0	1.075	2052514	351405	144	360	2440		
509.7229	55:34	55:34	0	1.075	2808360	479413	127	317	3775	0.73(0.59-0.79)	

## DCB Decachlorobiphenyl

495.6856	55:35	55:36	0	1.000	3319436	562420	80	200	7030		
497.6826	55:35	55:36	0	1.000	4758930	795243	105	262	7574	0.70(0.59-0.79)	

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

## Reagents:

61MX209ICVS\_00010

Amount Added: 20.00

Units: uL

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

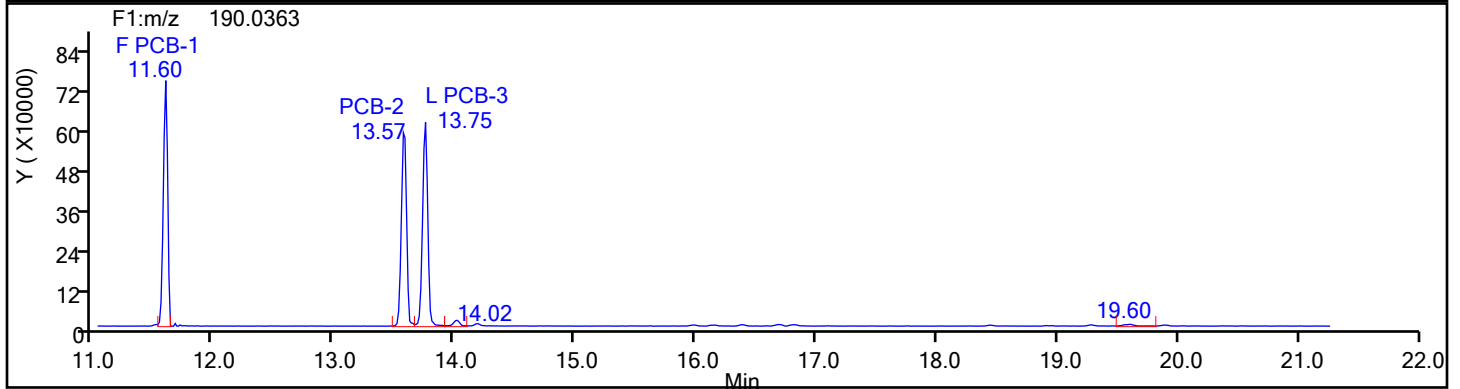
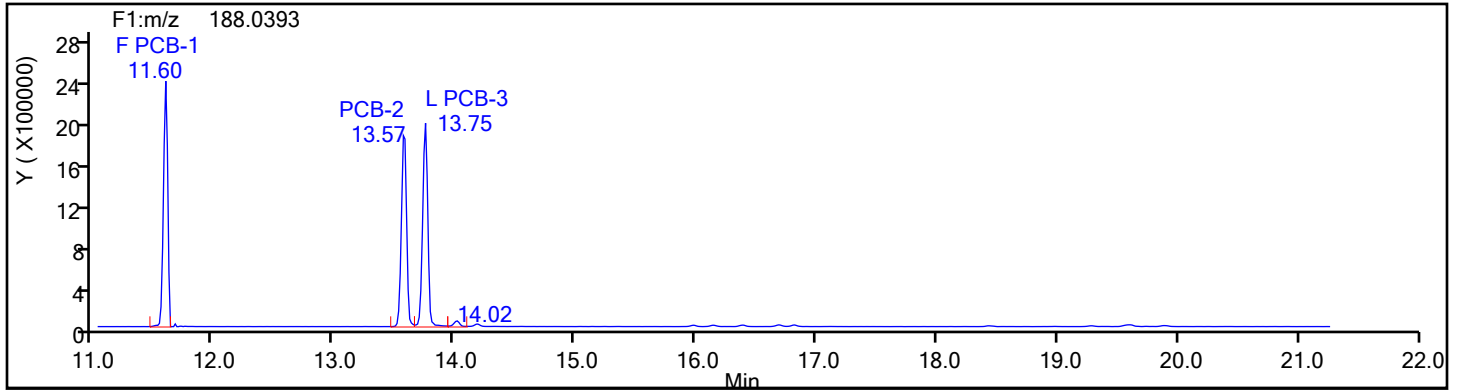
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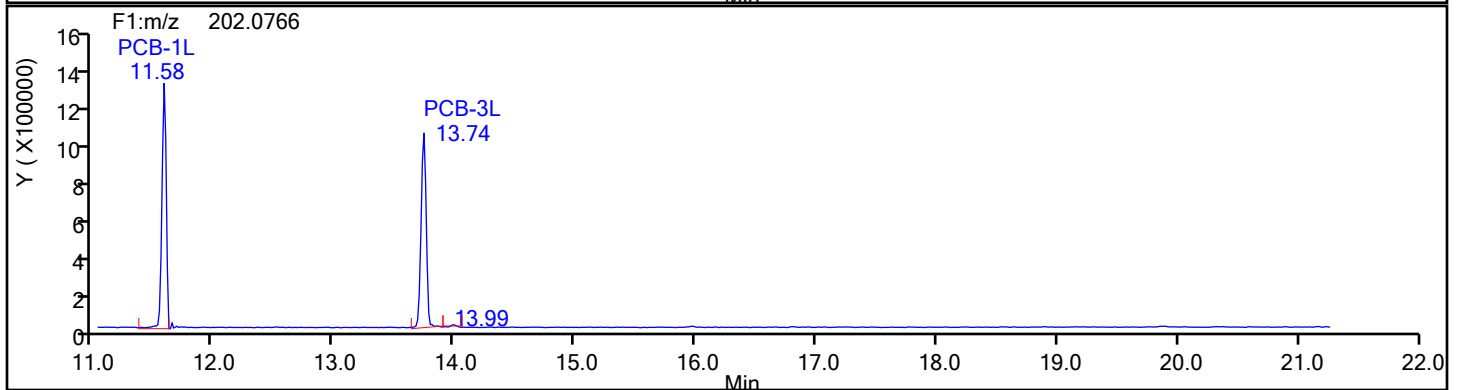
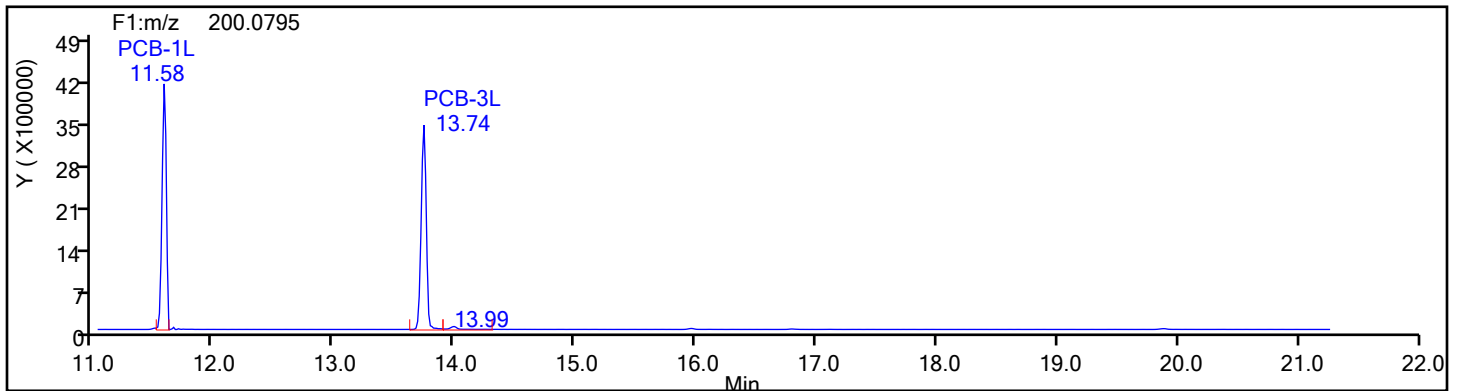
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

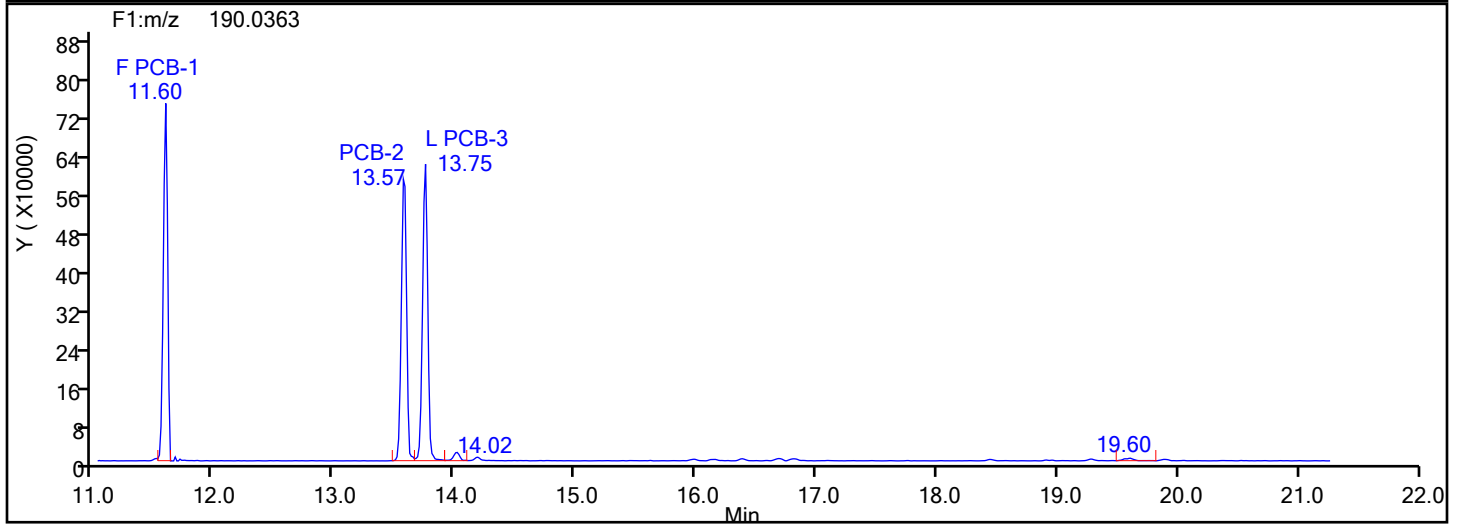
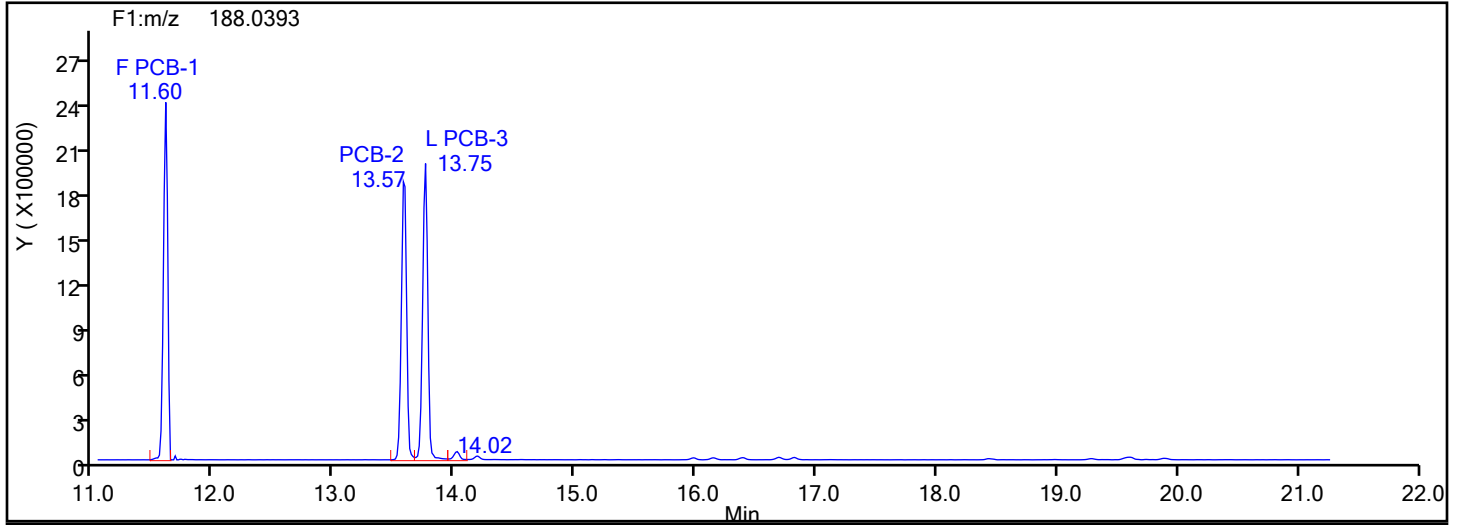
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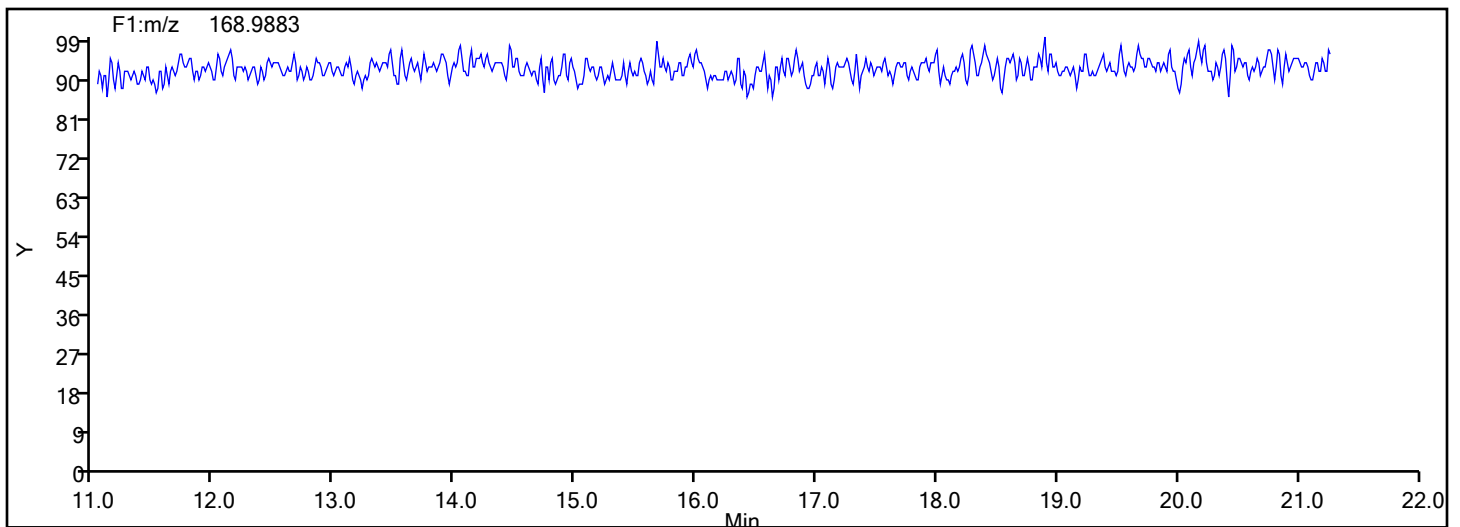
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

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Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

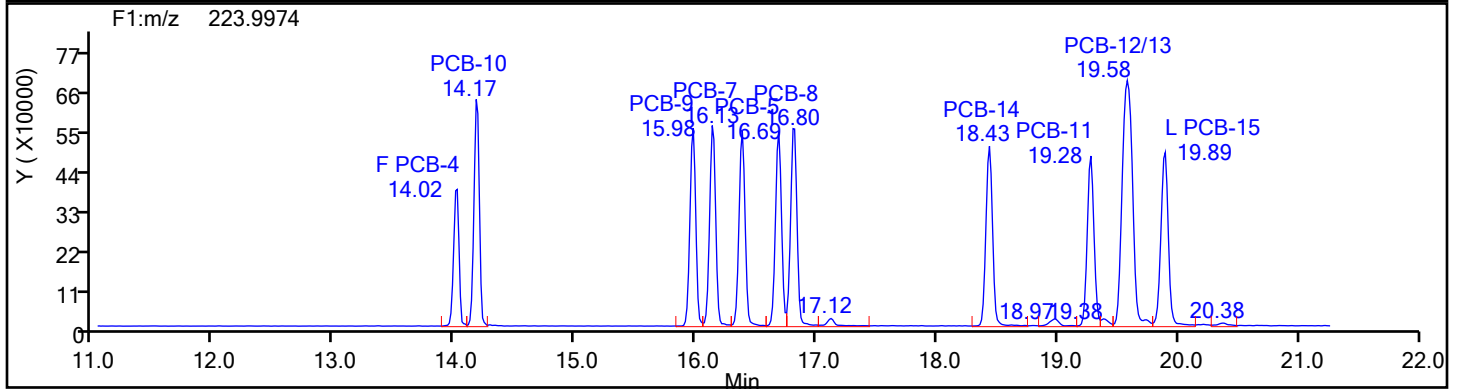
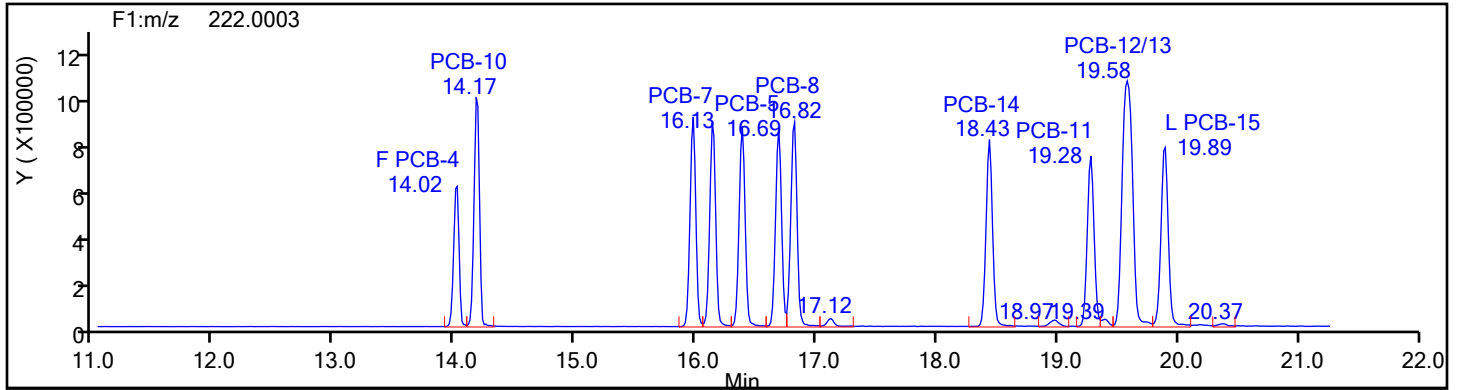
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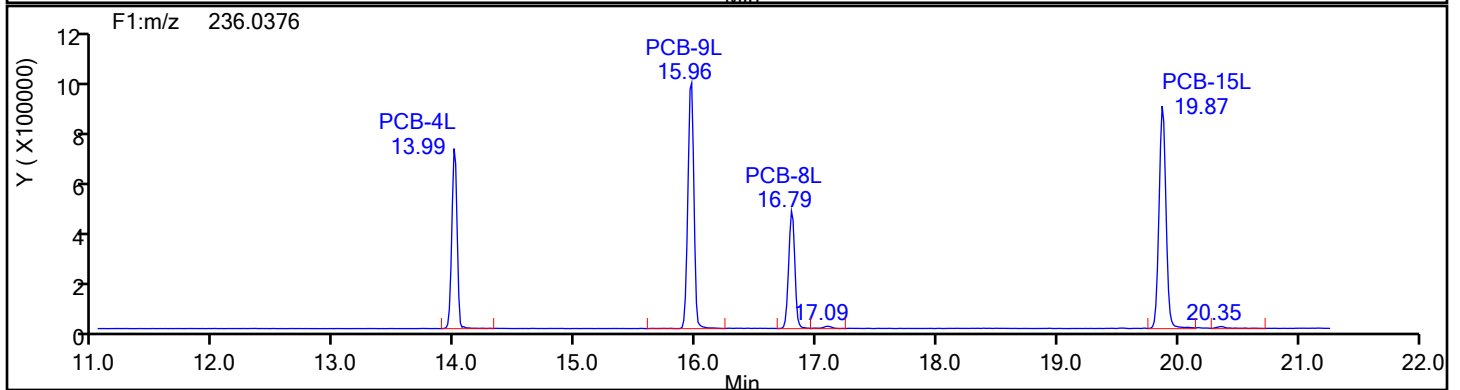
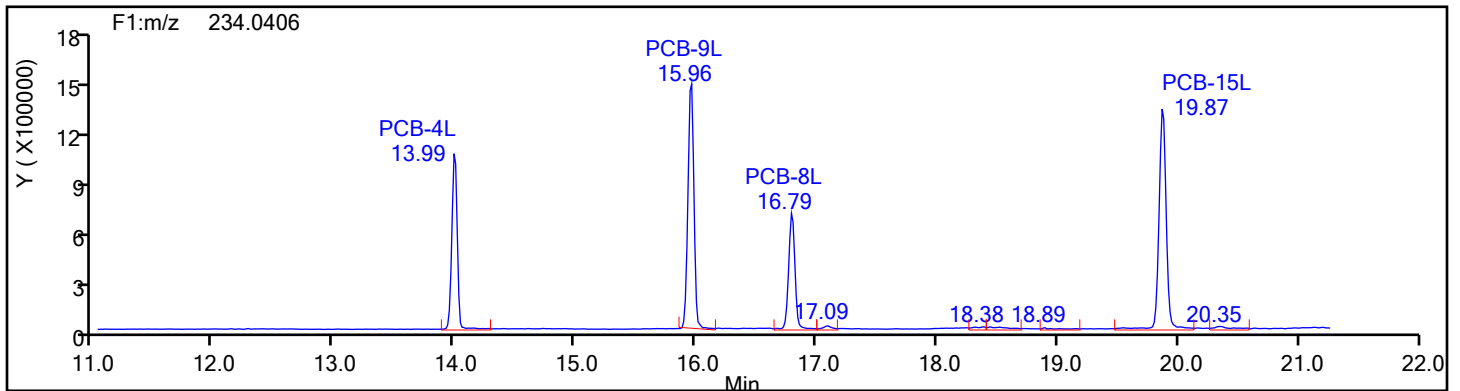
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

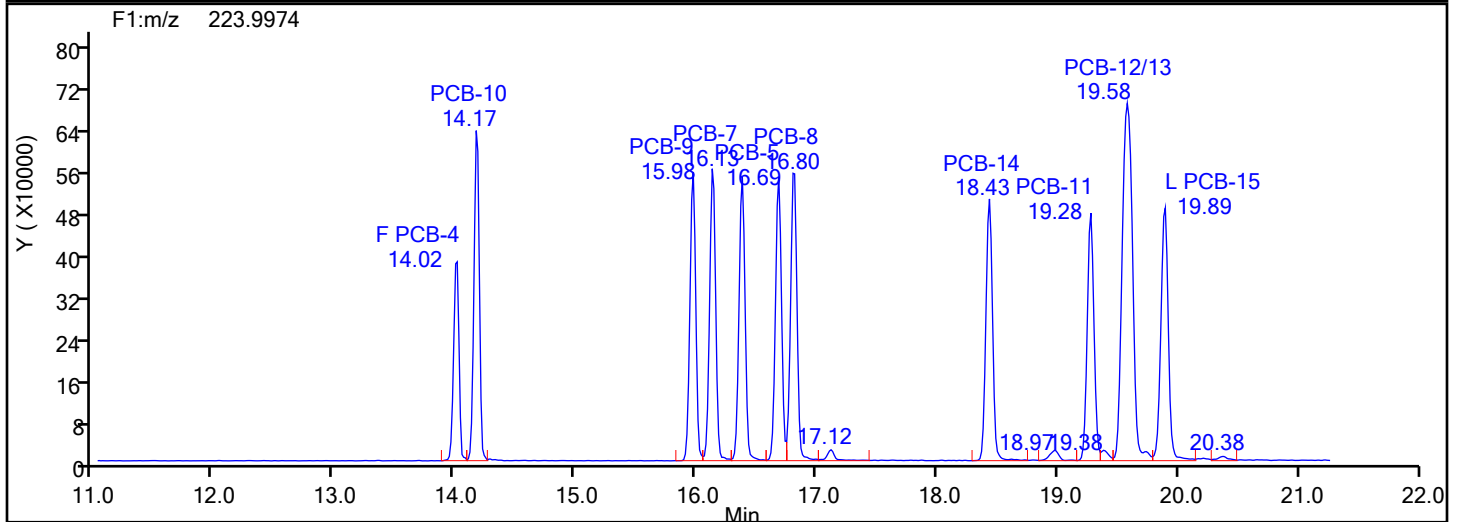
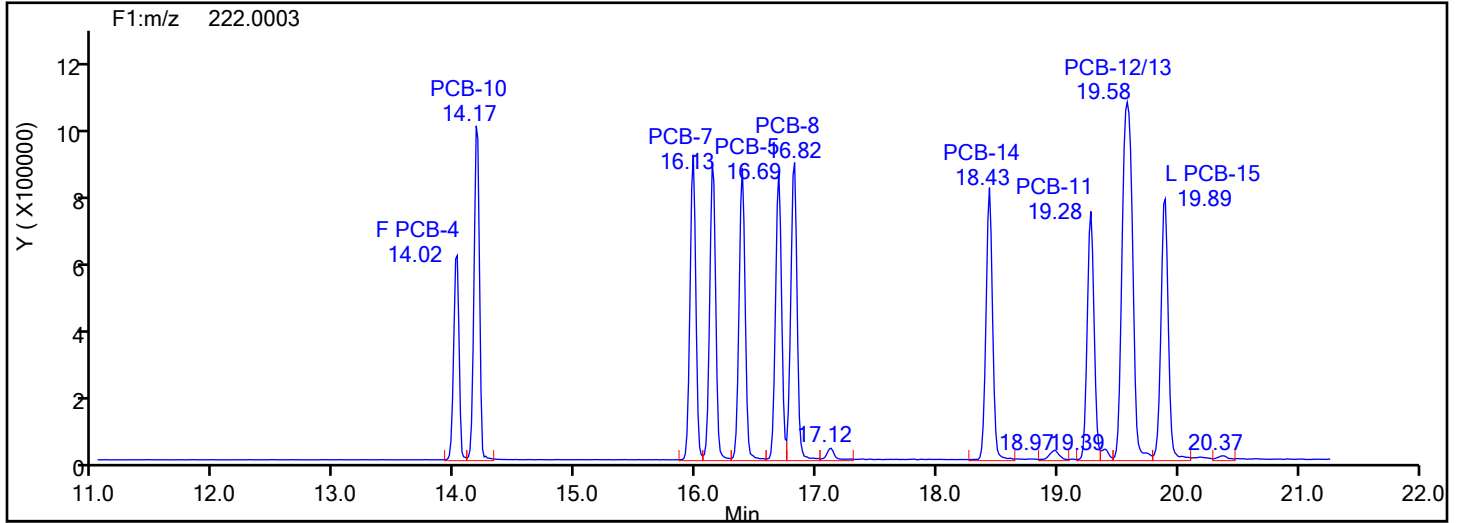
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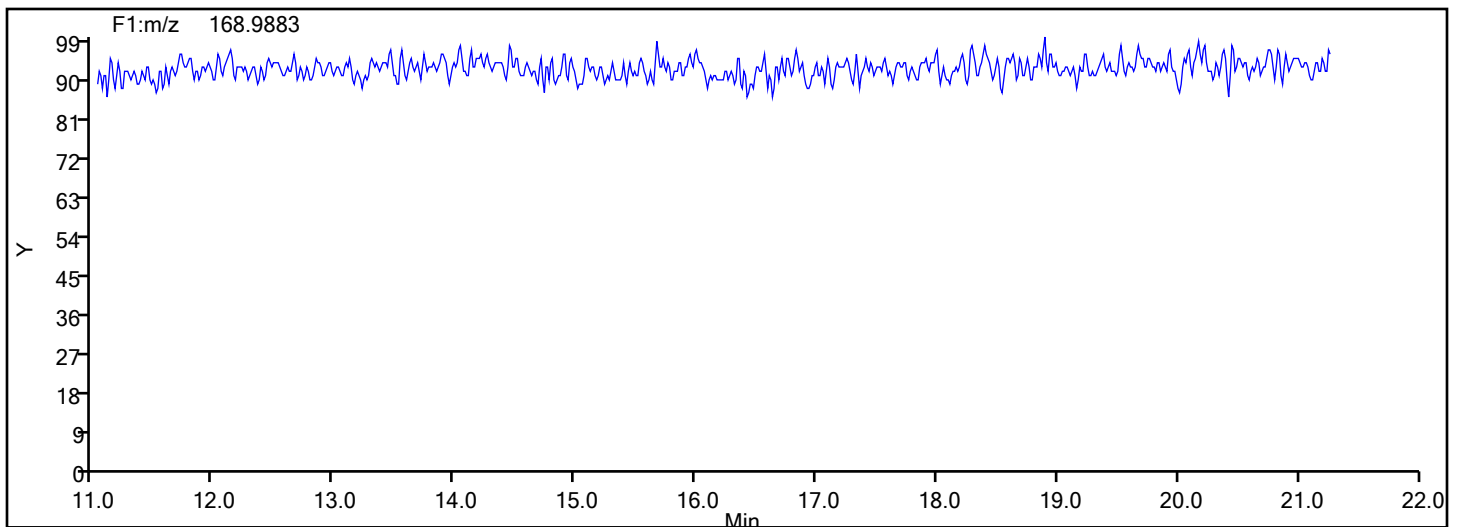
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

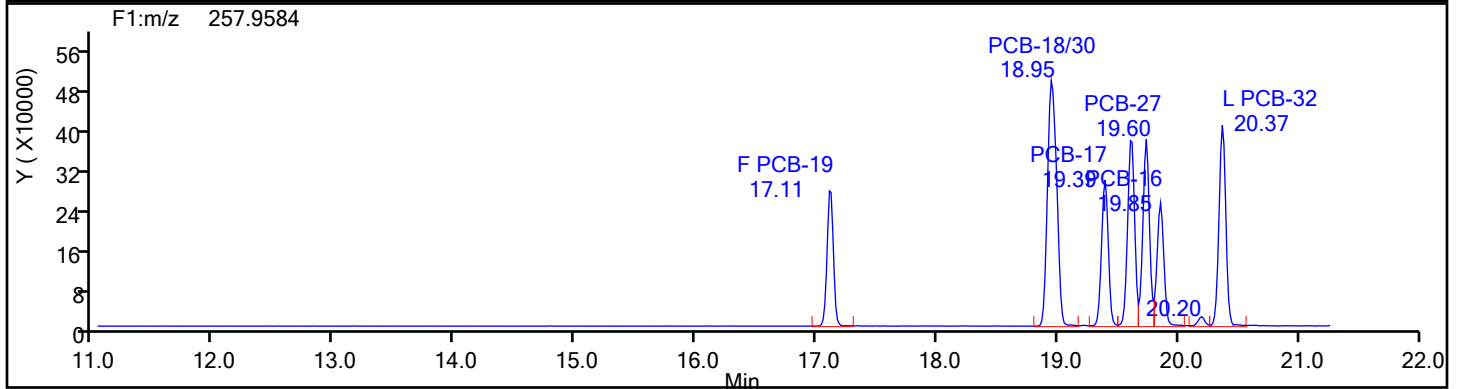
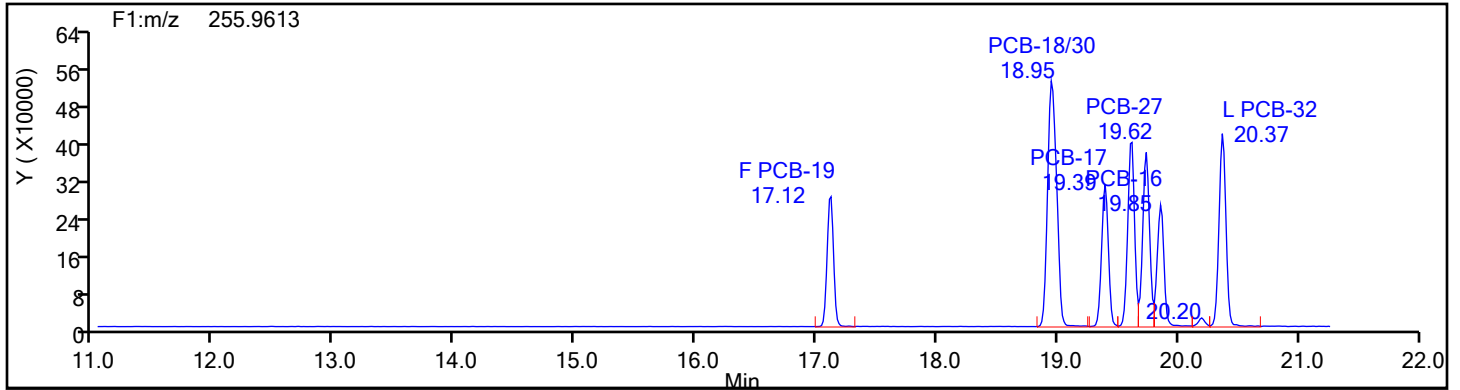
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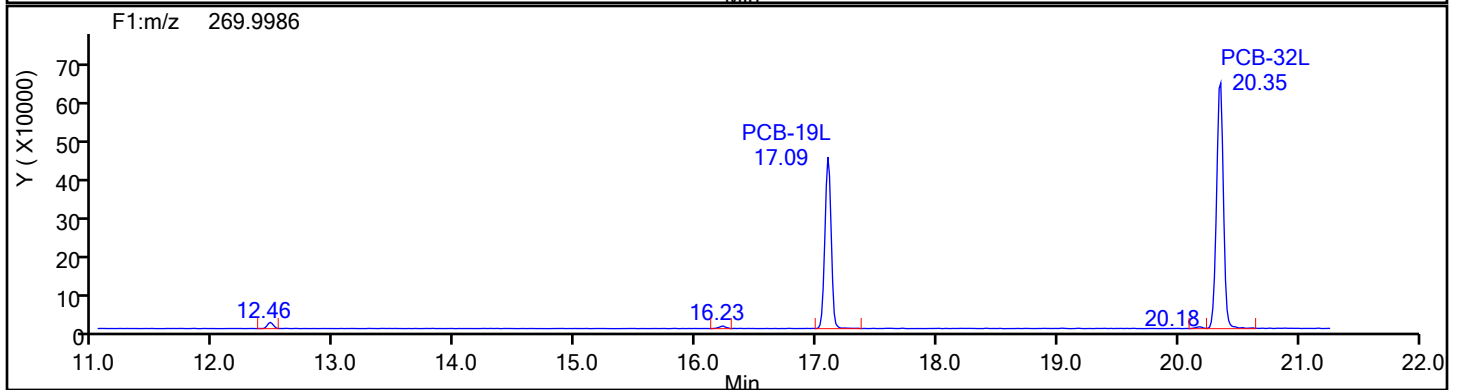
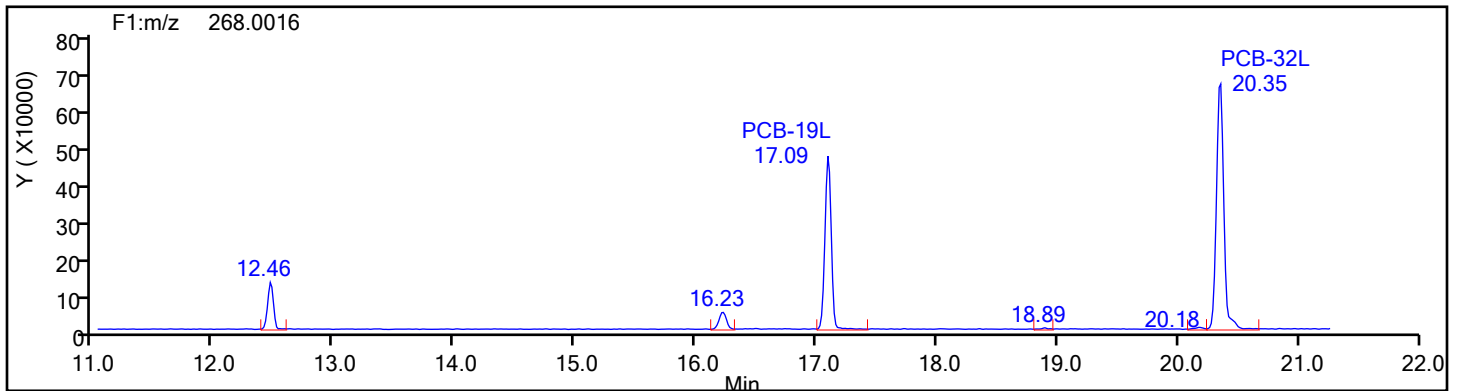
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

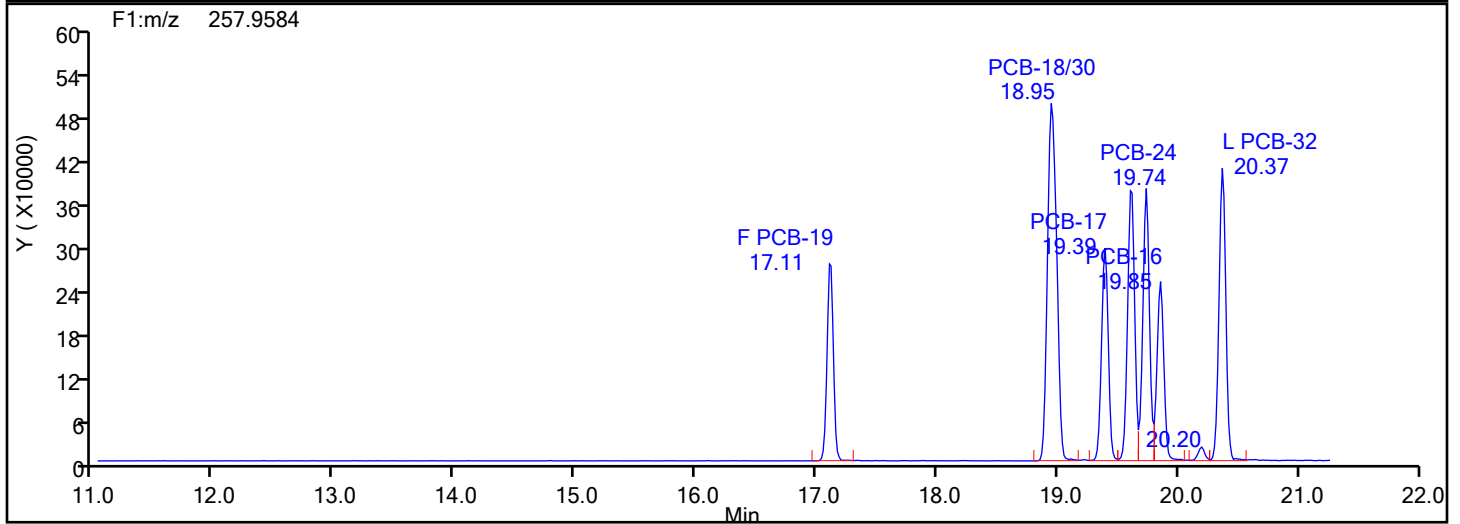
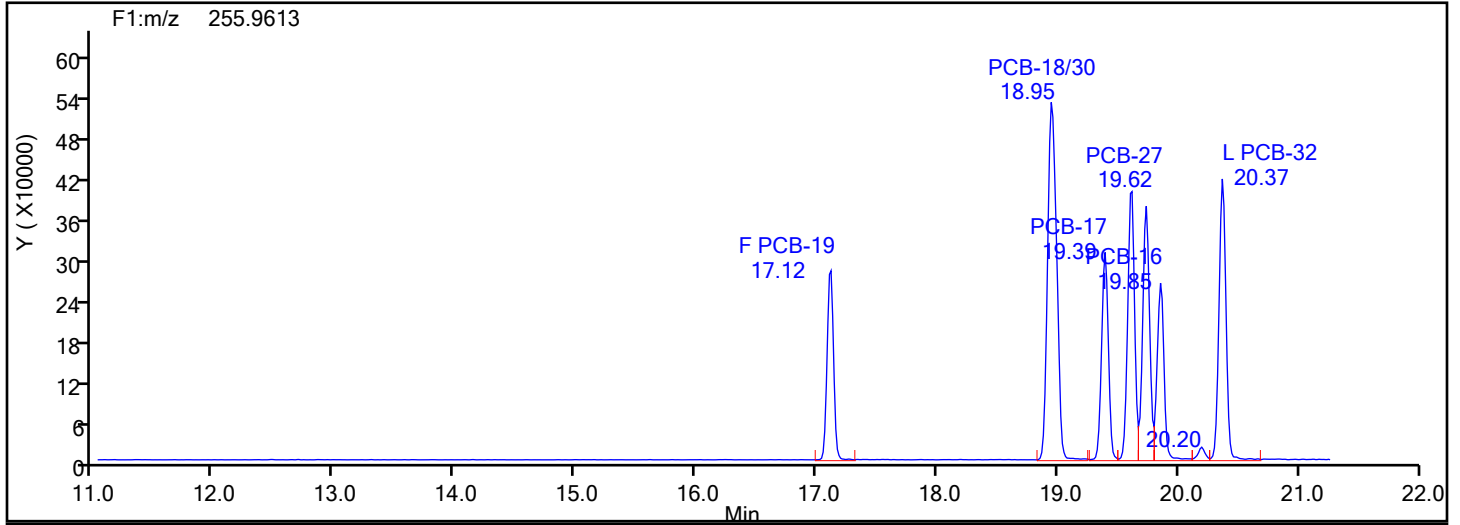
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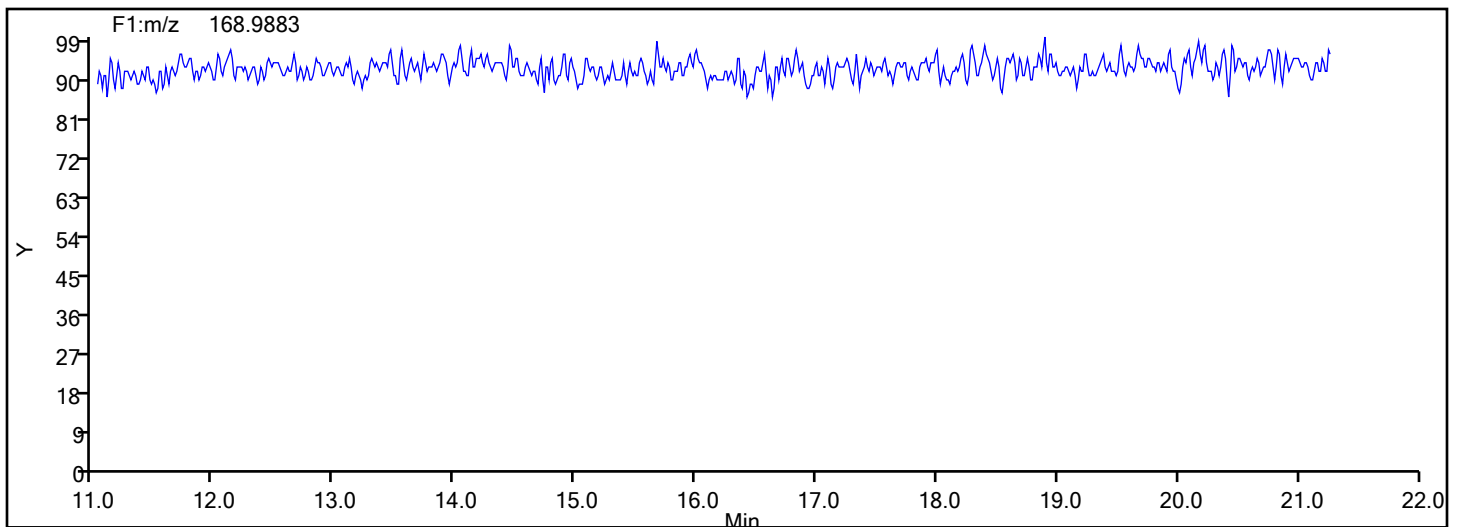
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



## Eurofins Knoxville

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Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

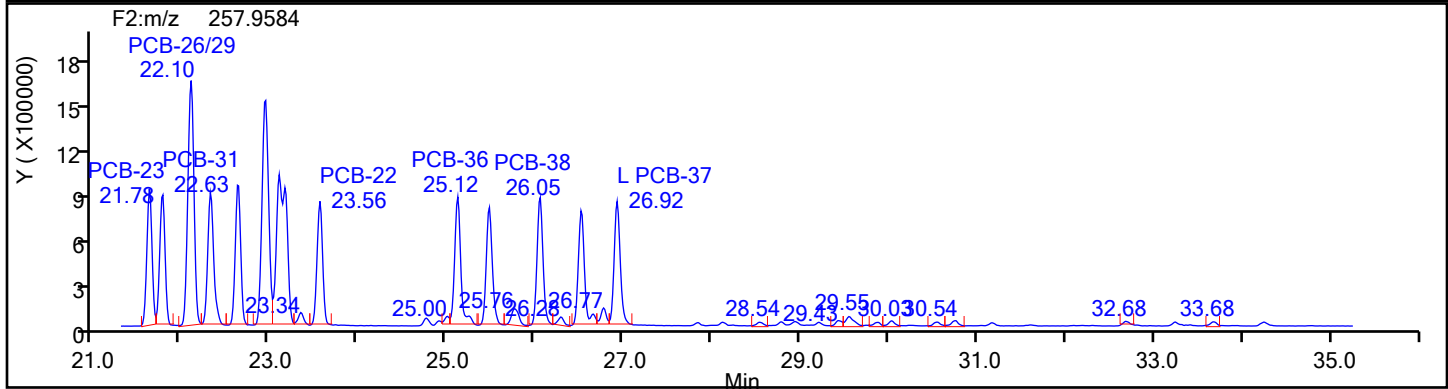
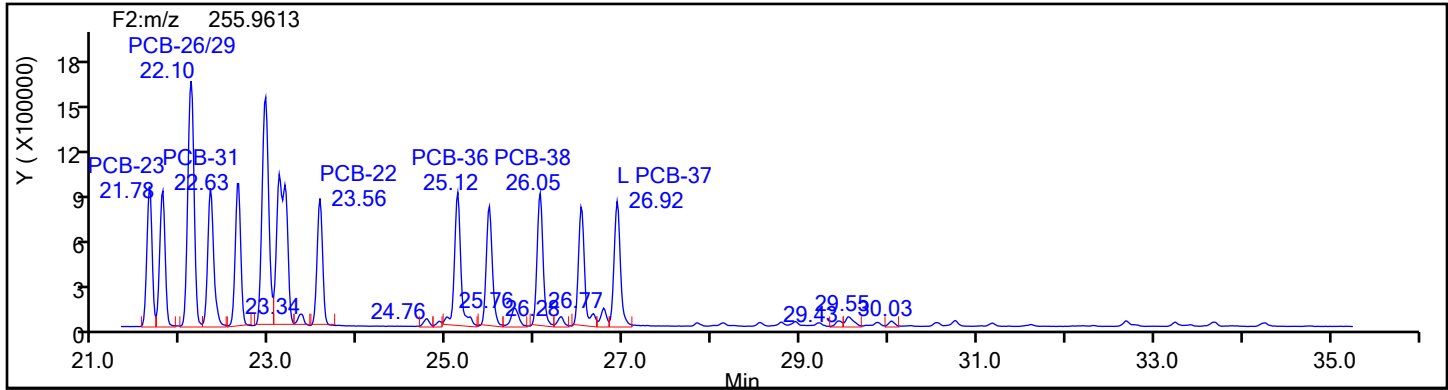
Worklist#: 87130

Sample Line#: 7

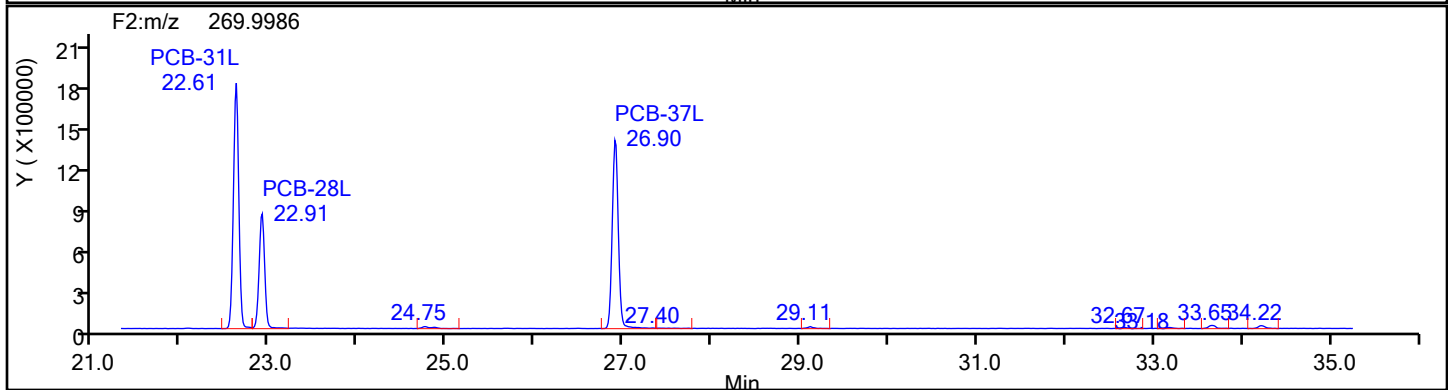
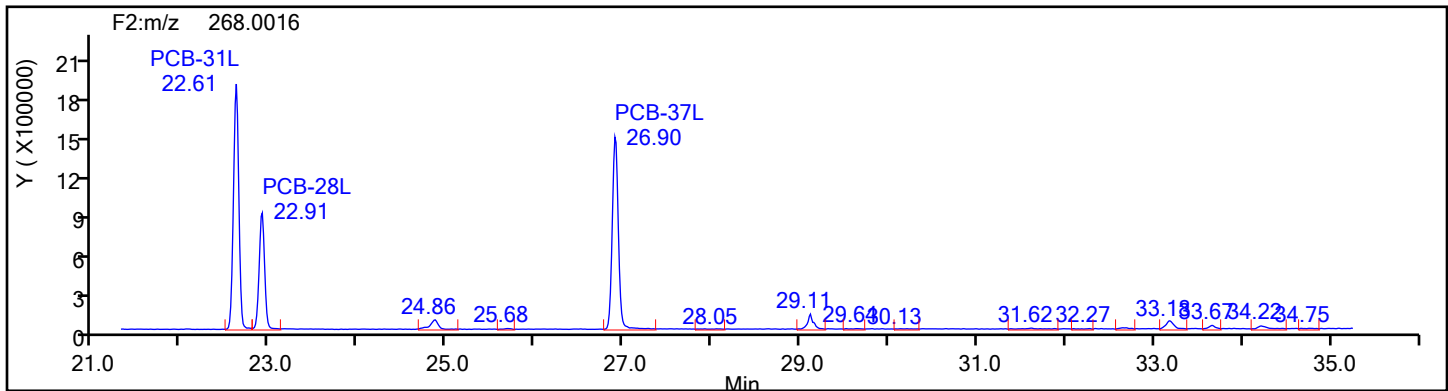
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

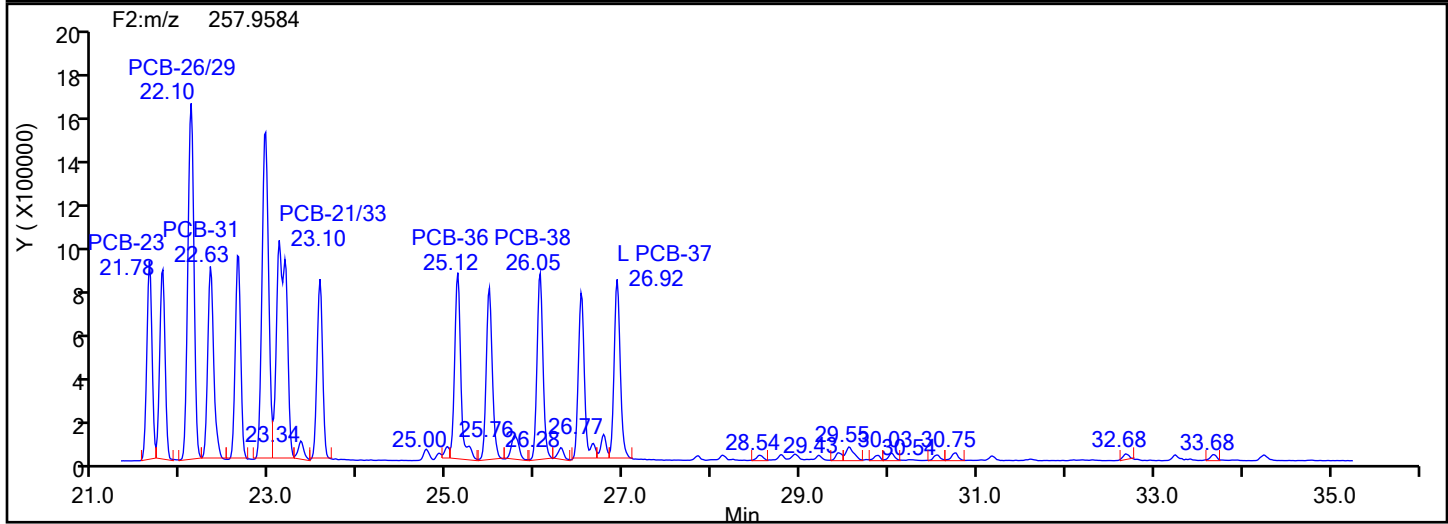
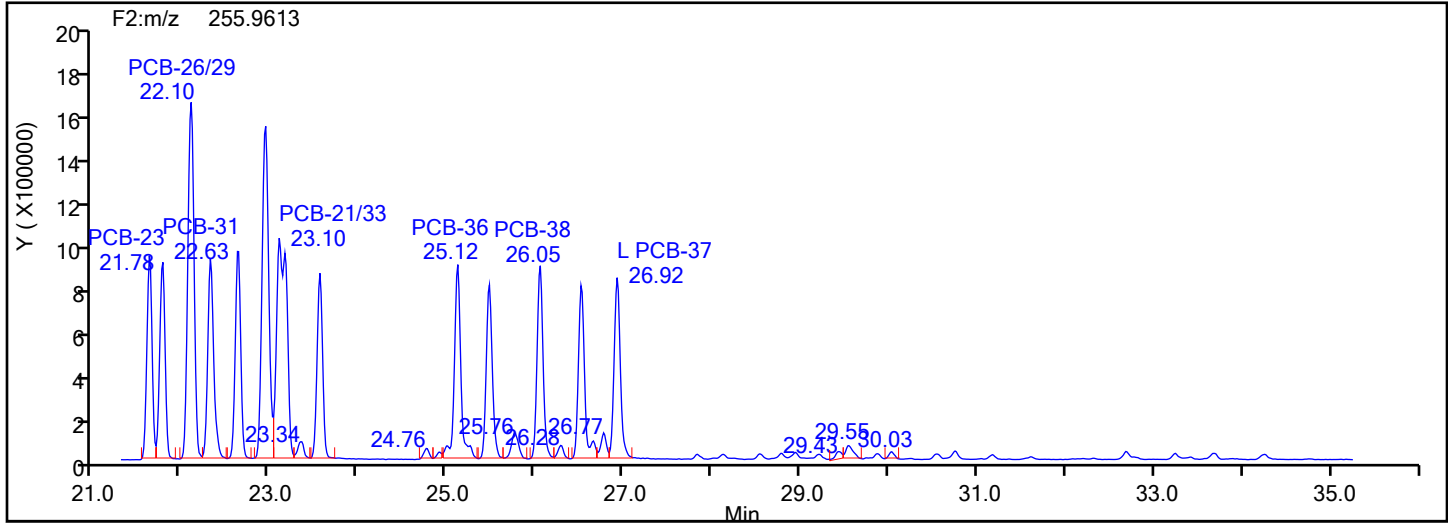
Worklist#: 87130

Sample Line#: 7

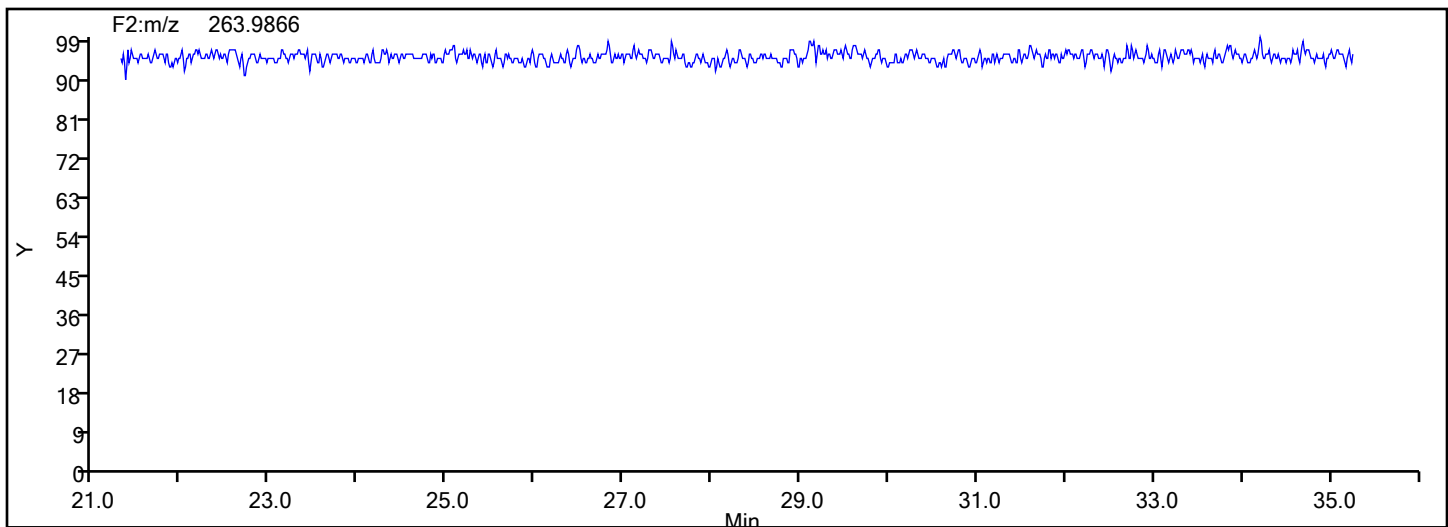
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

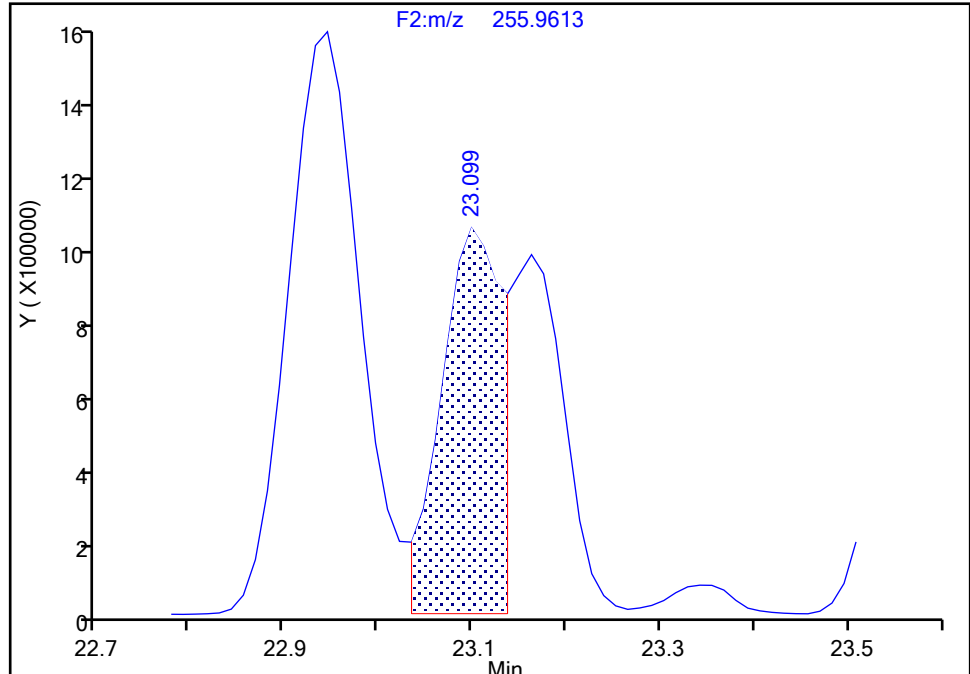
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

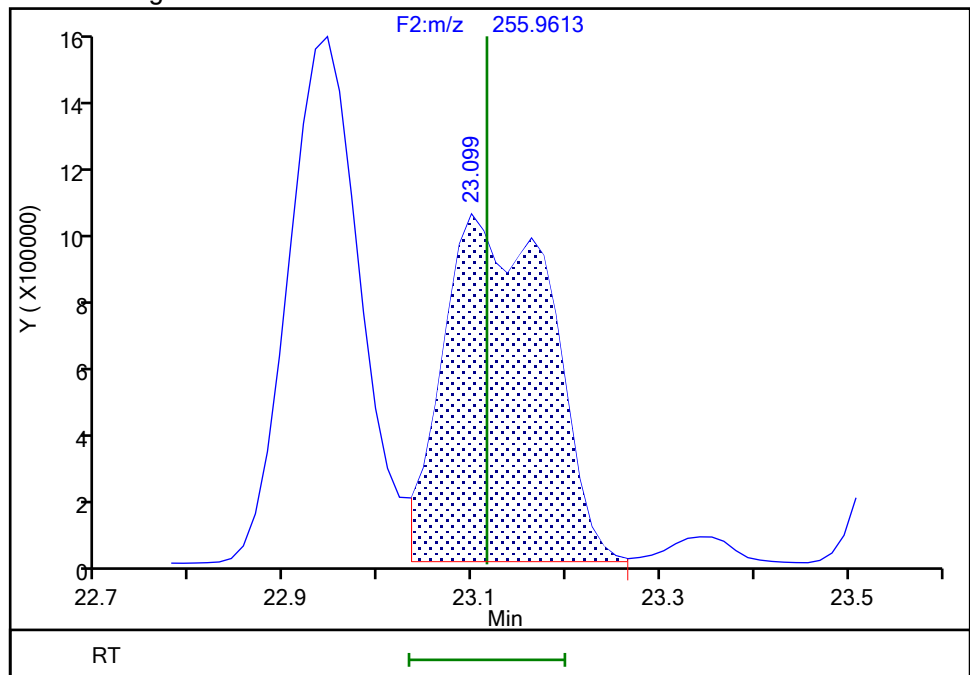
RT: 23.10  
Area: 4348927  
Amount: 58.859184  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.10  
Area: 7956098  
Amount: 106.5455  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

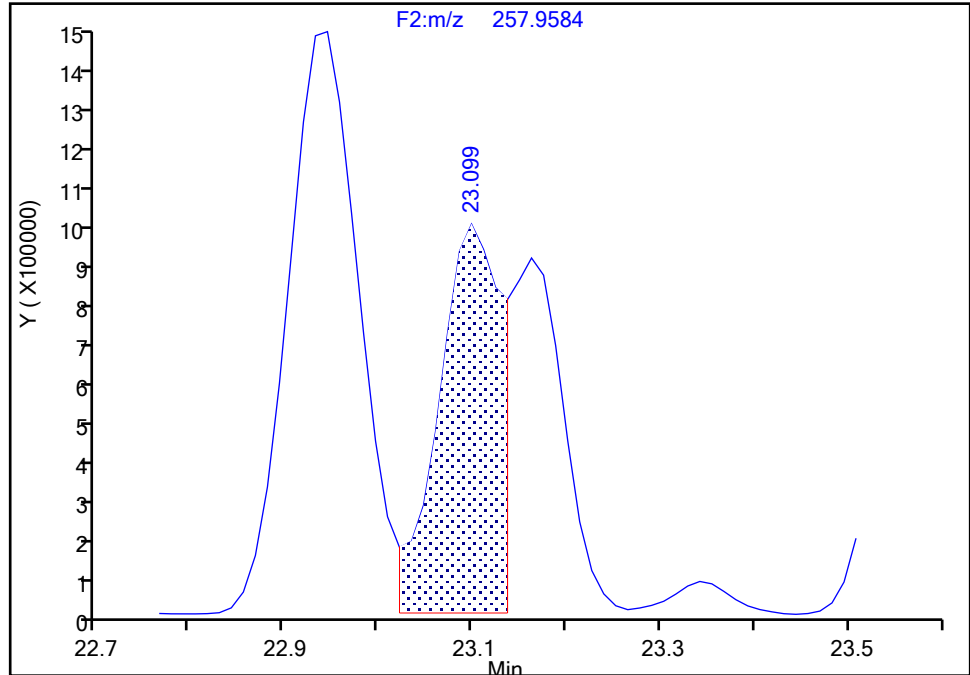
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

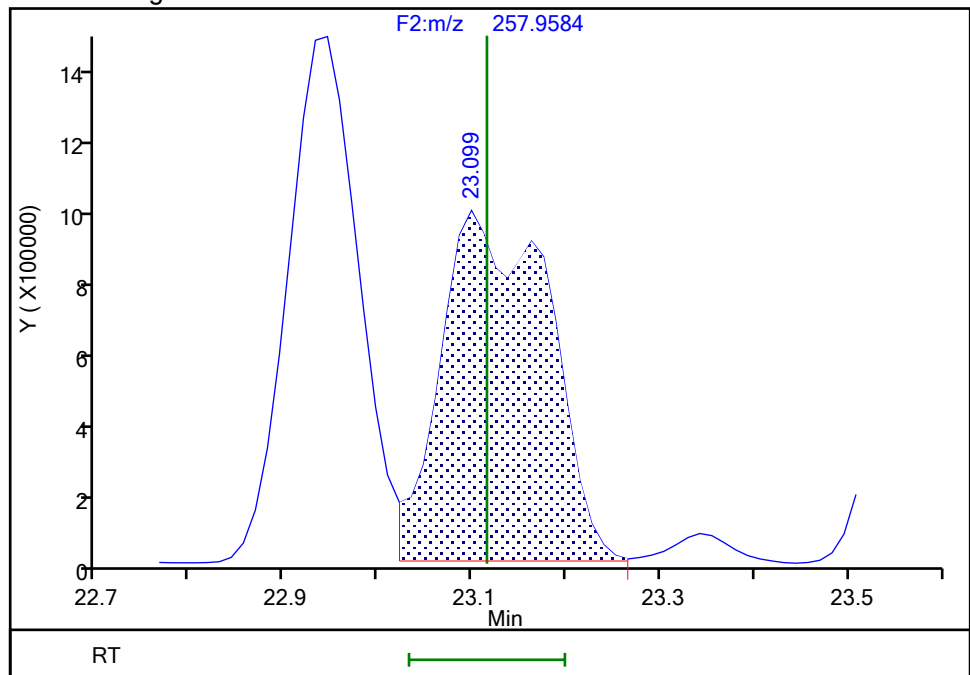
RT: 23.10  
Area: 4328847  
Amount: 58.859184  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.10  
Area: 7752210  
Amount: 106.5455  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

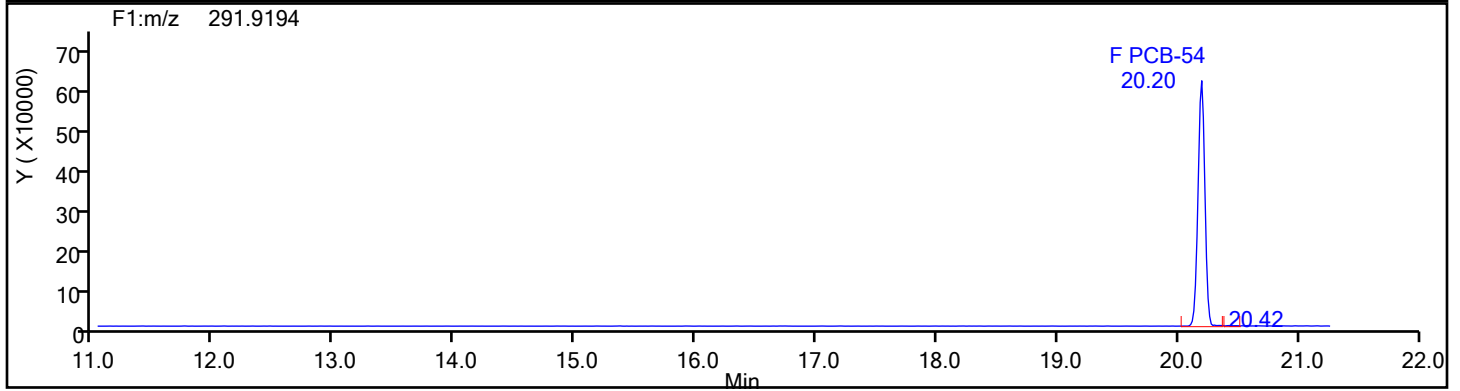
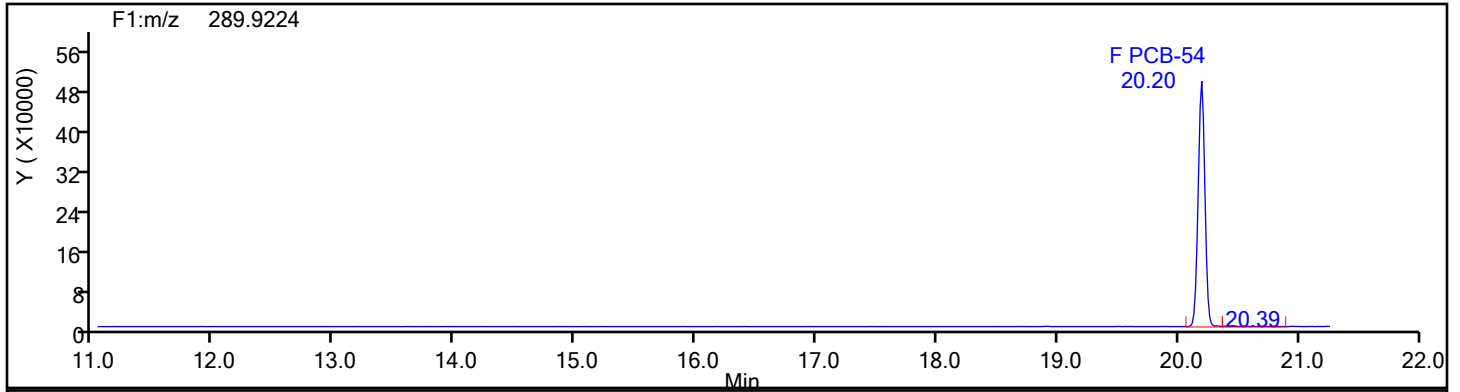
Worklist#: 87130

Sample Line#: 7

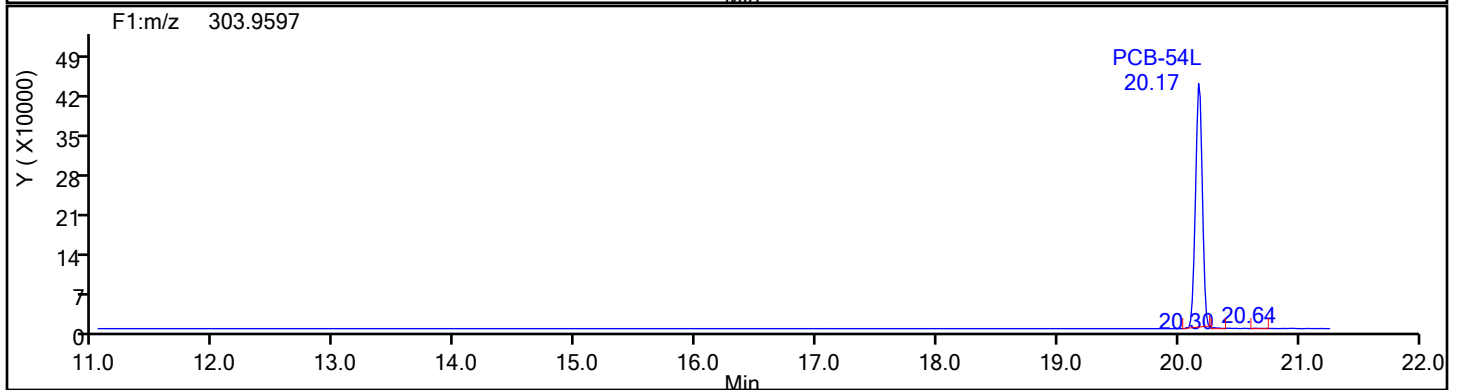
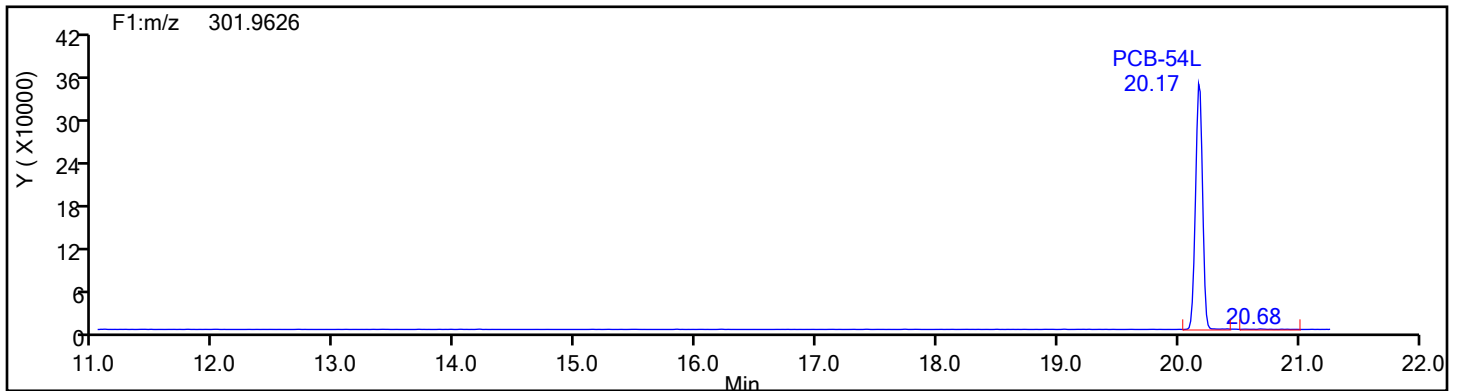
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

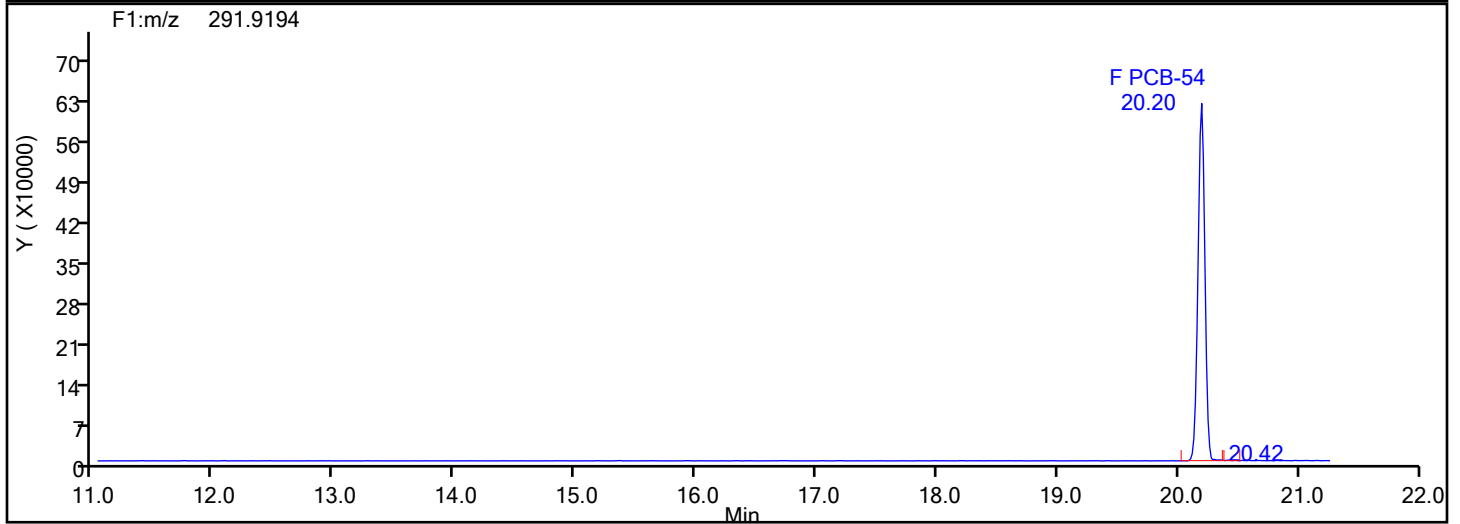
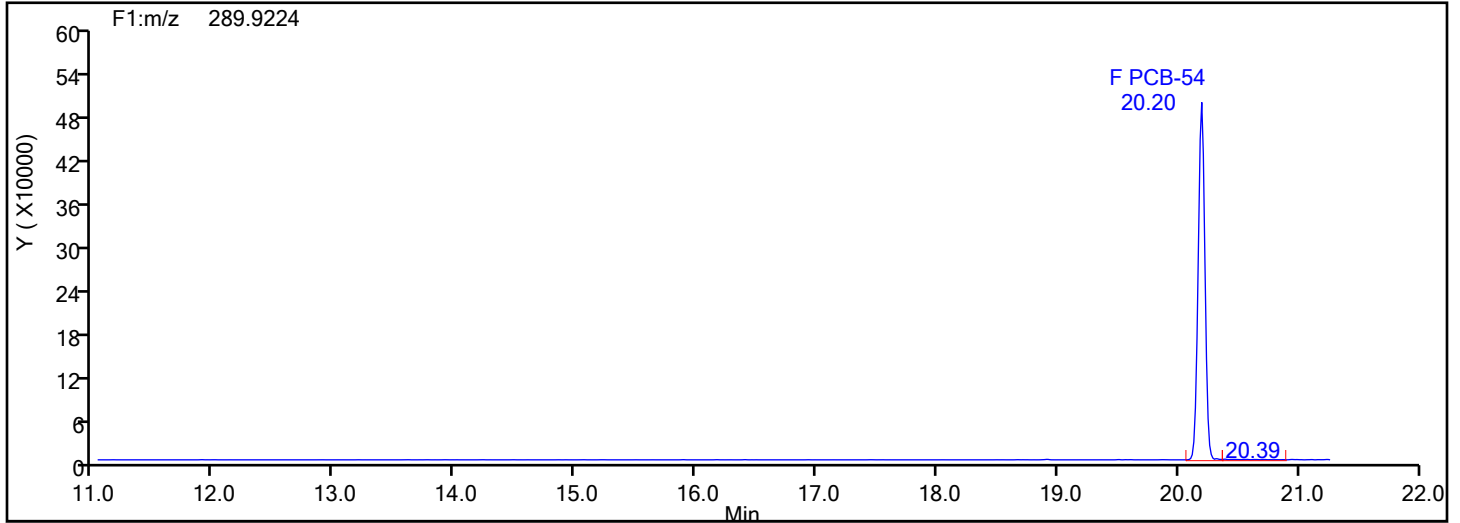
Worklist#: 87130

Sample Line#: 7

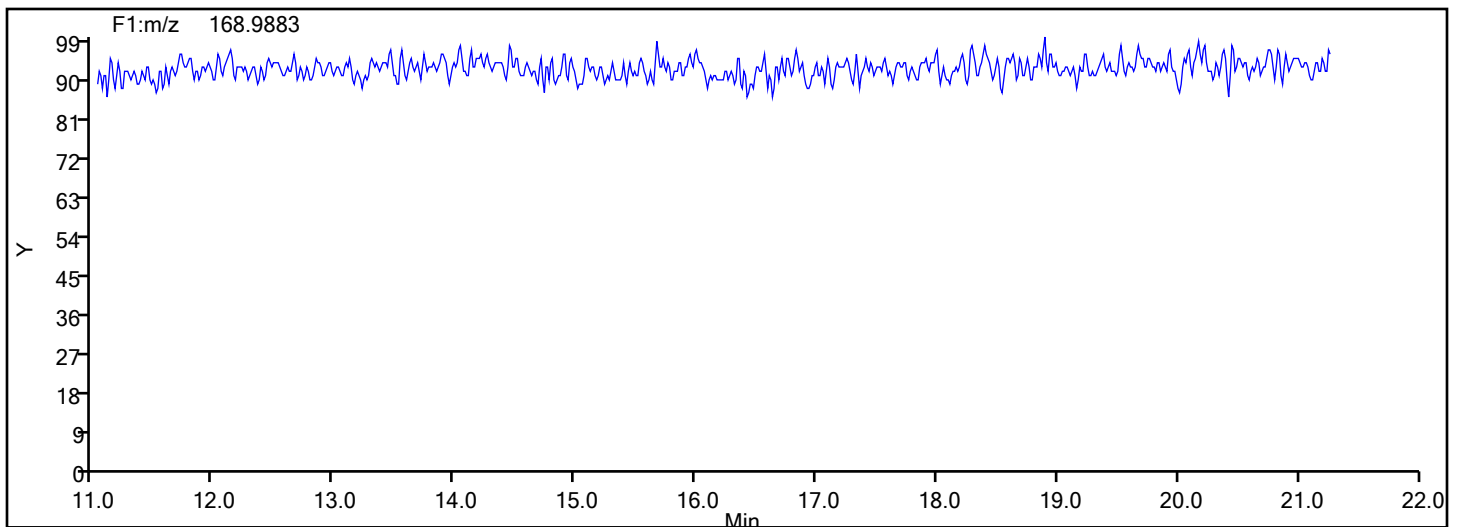
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

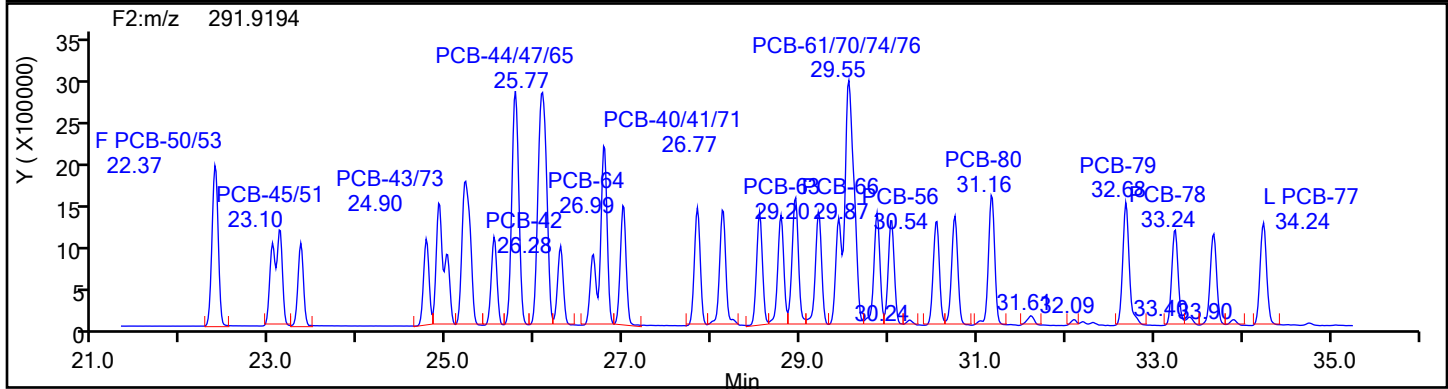
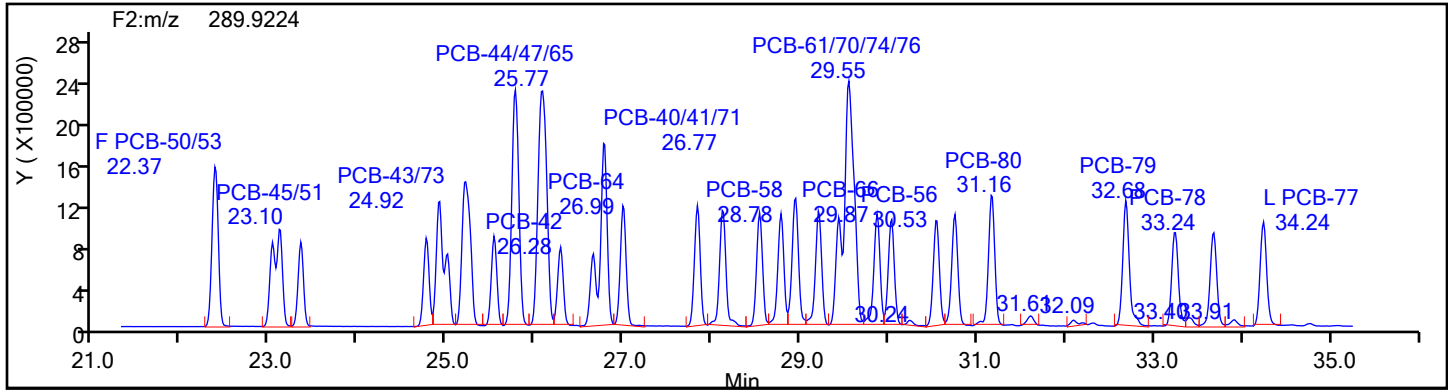
Worklist#: 87130

Sample Line#: 7

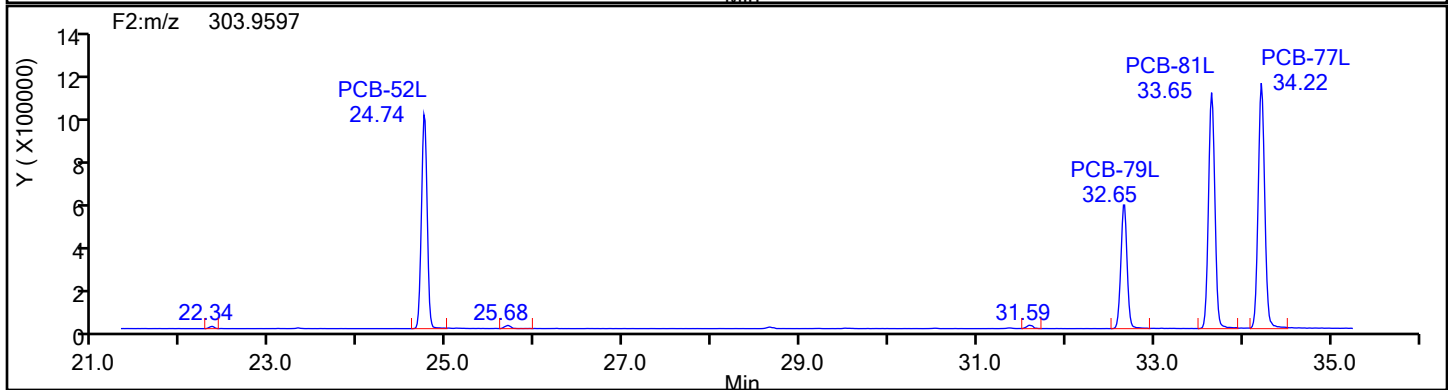
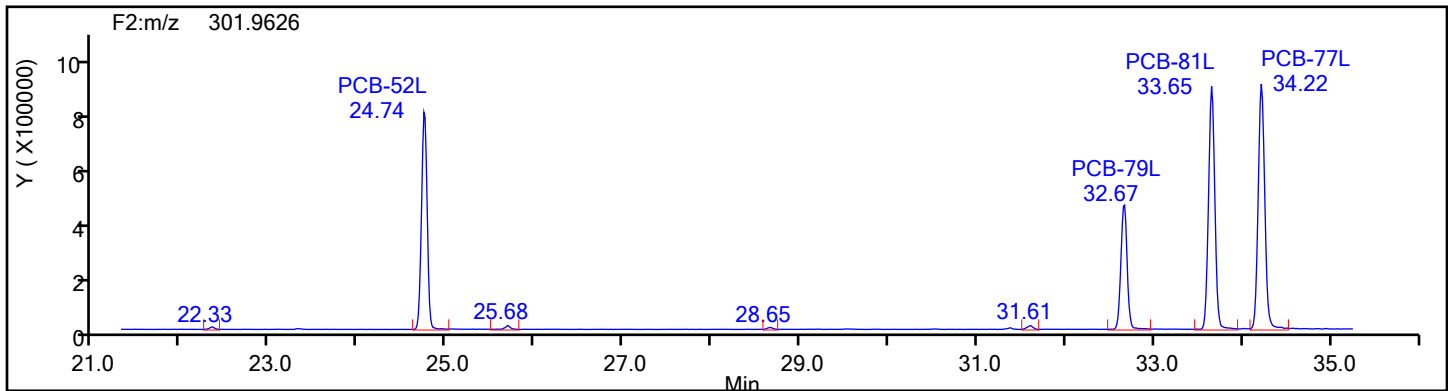
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

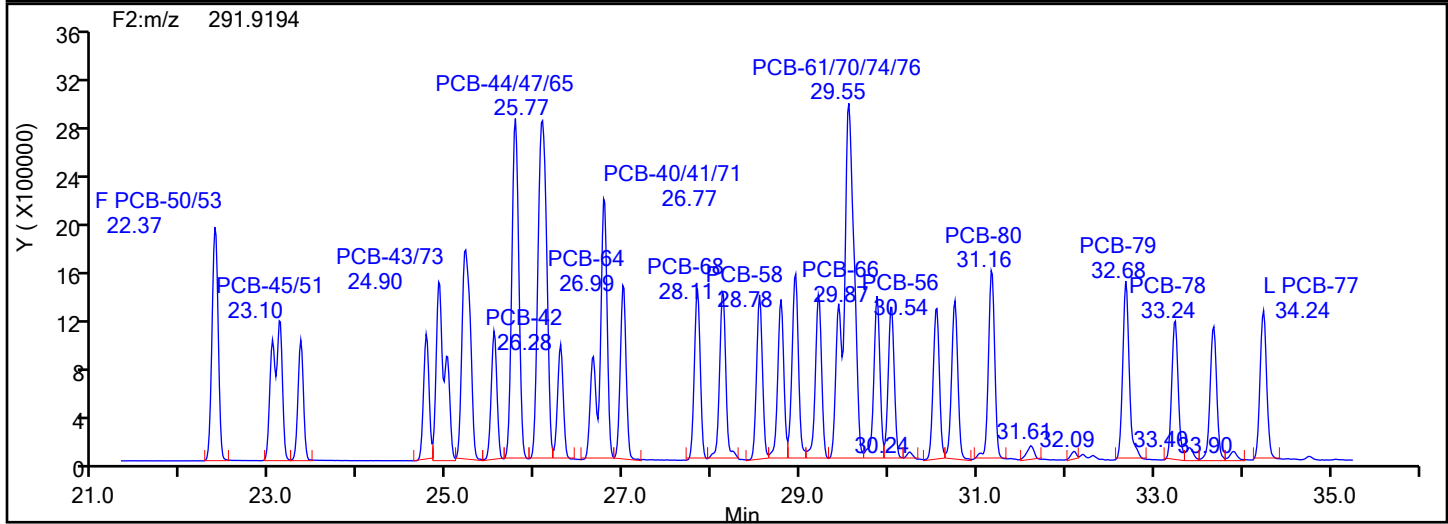
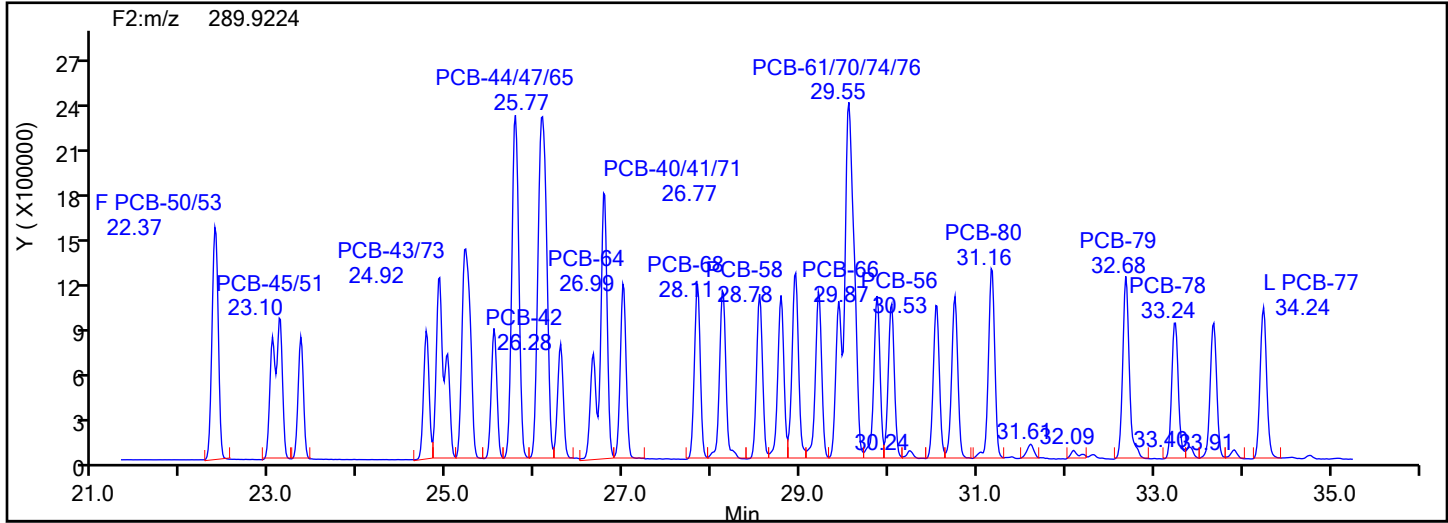
Worklist#: 87130

Sample Line#: 7

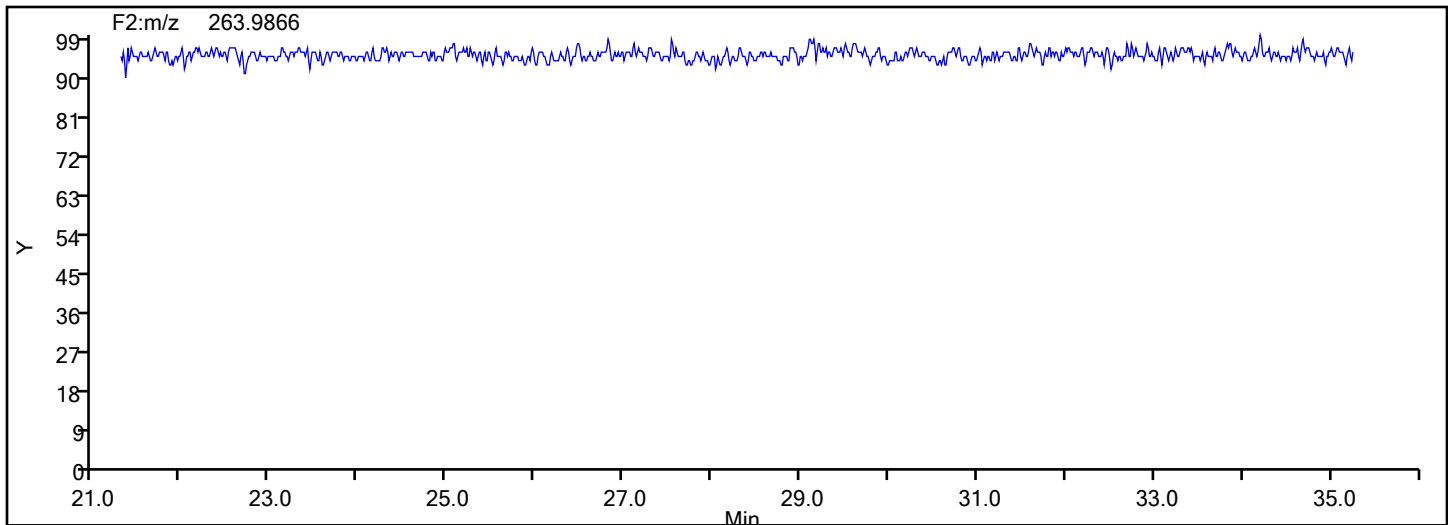
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

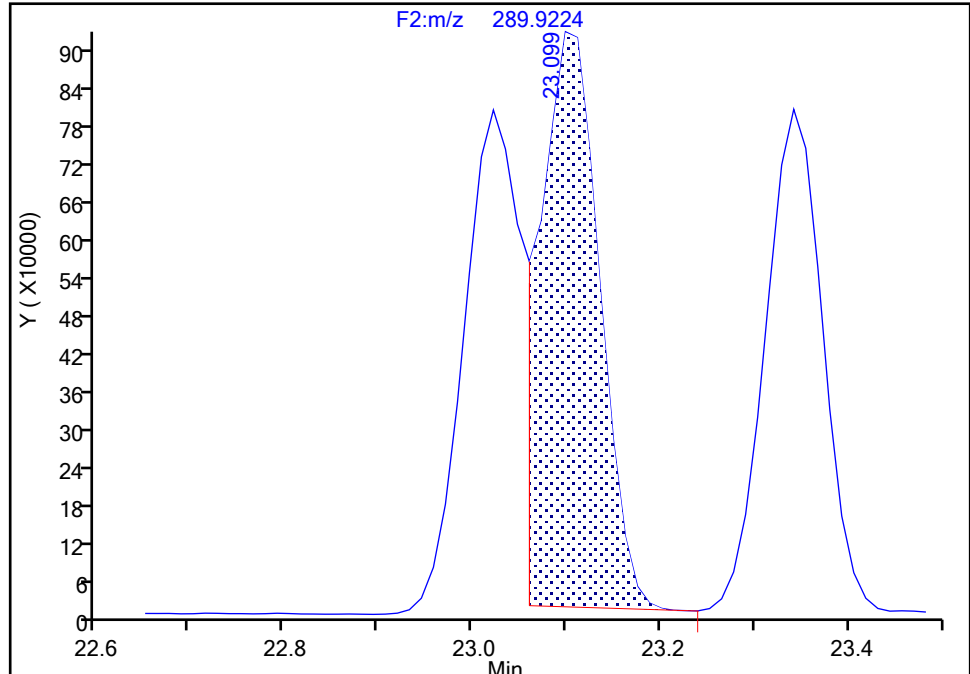
F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 1

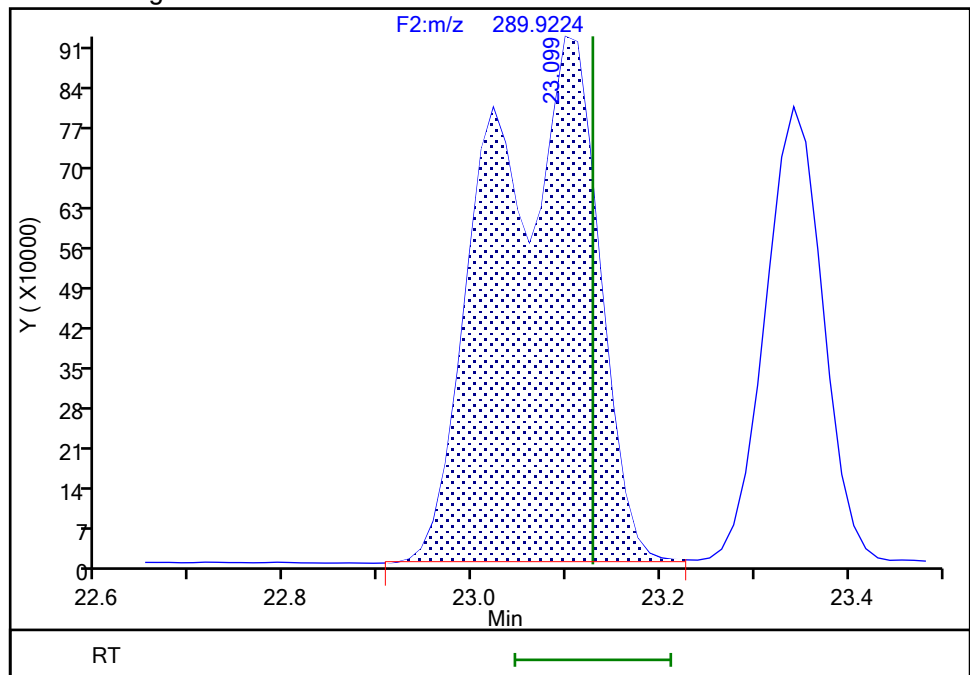
RT: 23.10  
Area: 3944356  
Amount: 108.0837  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.10  
Area: 7266784  
Amount: 199.5247  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

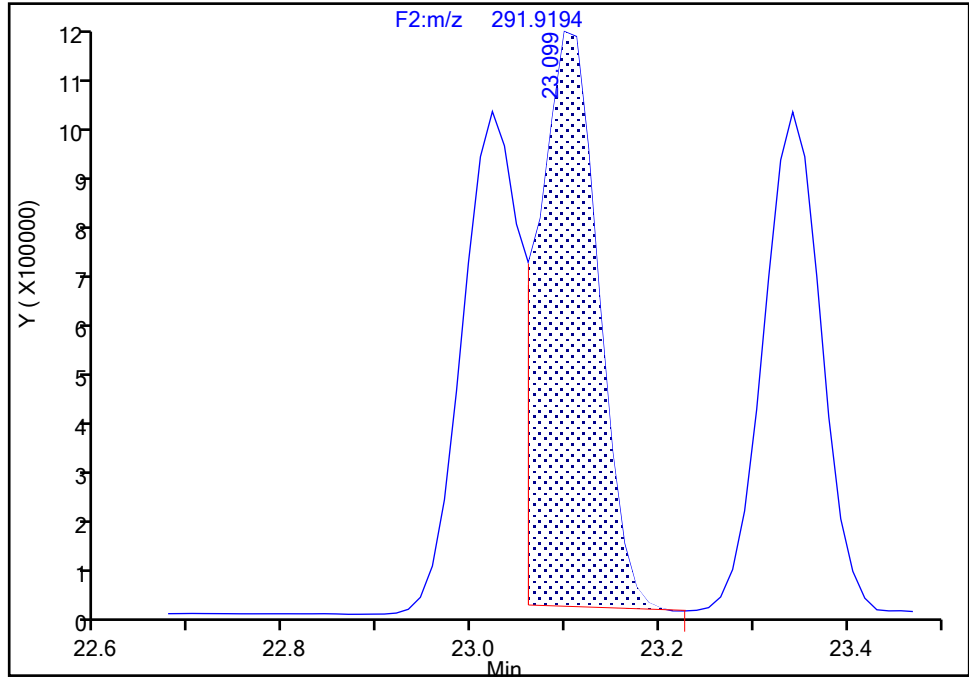
Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 2

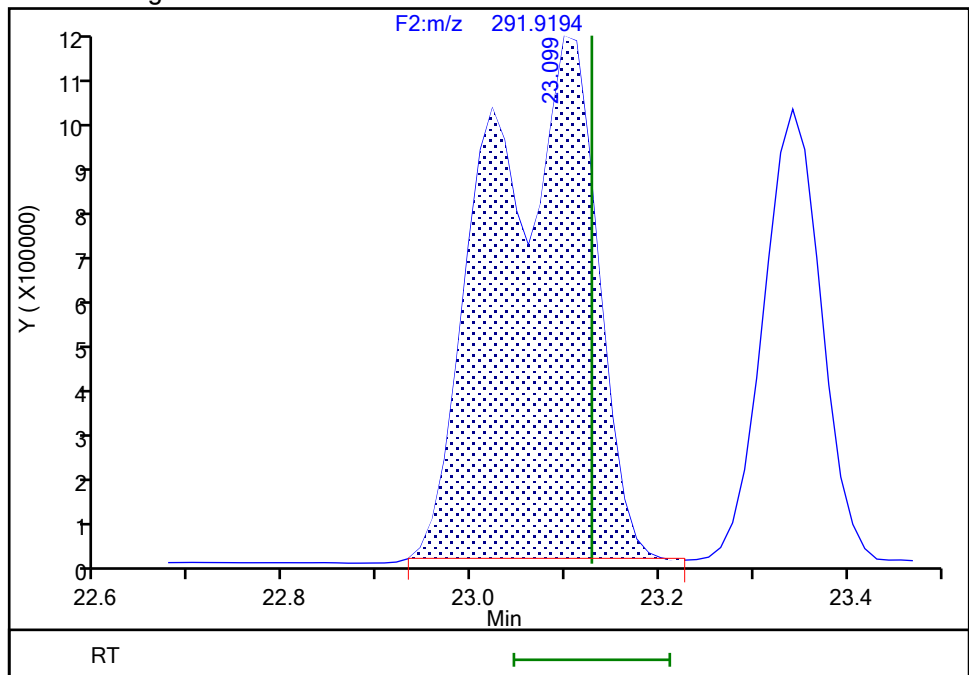
RT: 23.10  
Area: 4947557  
Amount: 108.0837  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.10  
Area: 9147858  
Amount: 199.5247  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:07:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

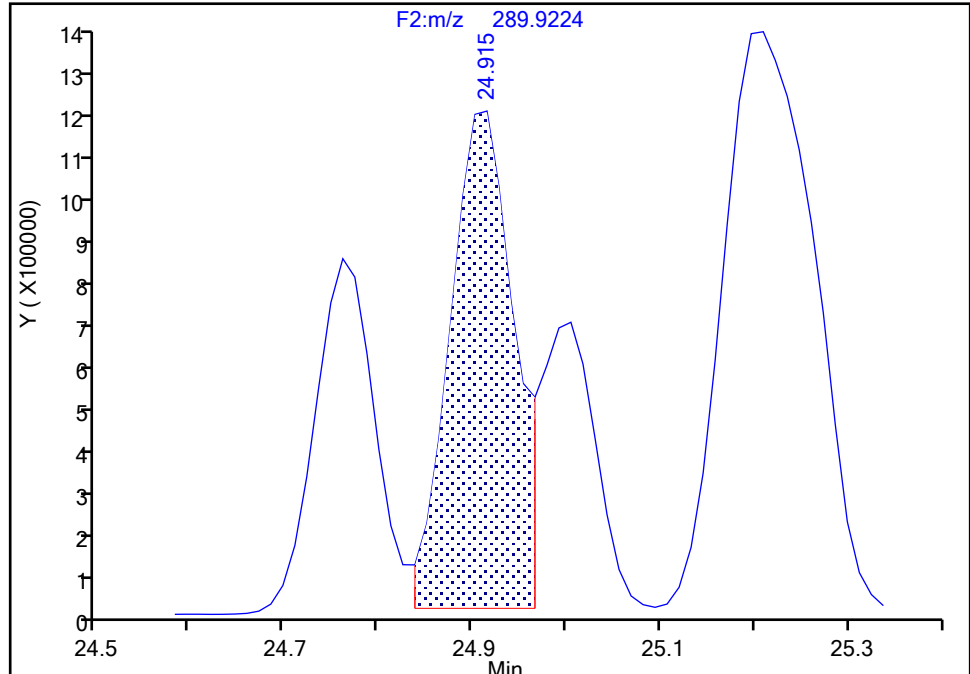
Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 1

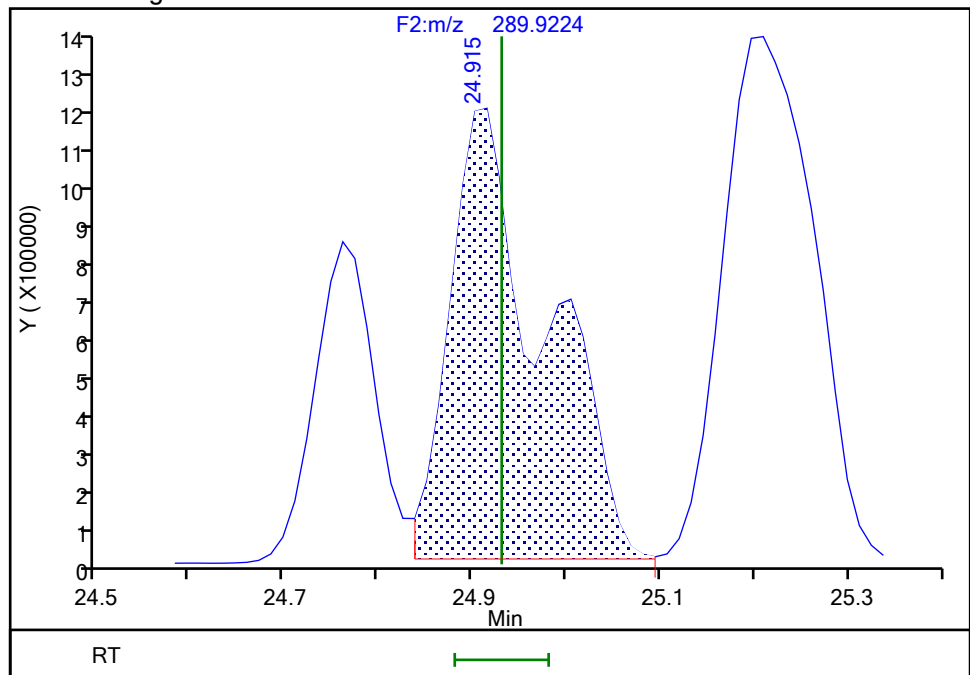
RT: 24.92  
Area: 5521608  
Amount: 120.8756  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.92  
Area: 8232470  
Amount: 181.3642  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

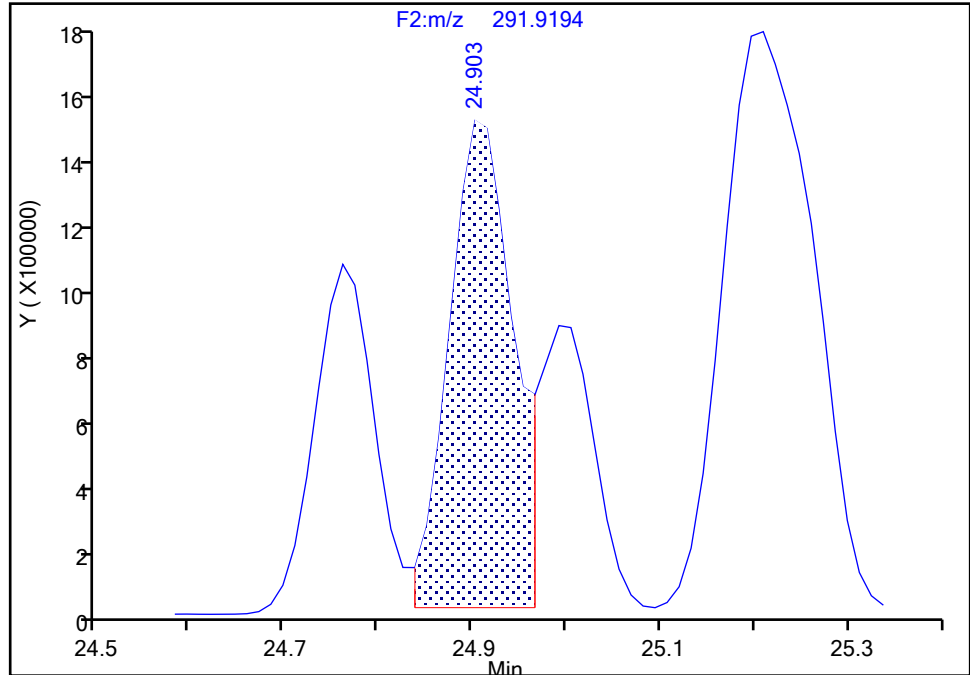
F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

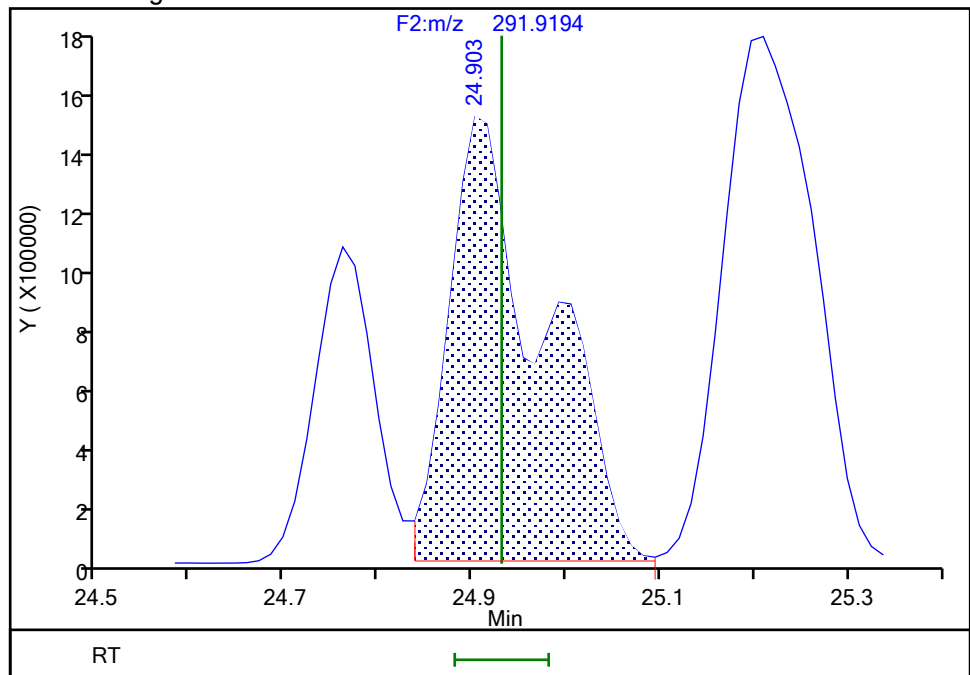
RT: 24.90  
Area: 6912452  
Amount: 120.8756  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.90  
Area: 10423848  
Amount: 181.3642  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:18 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

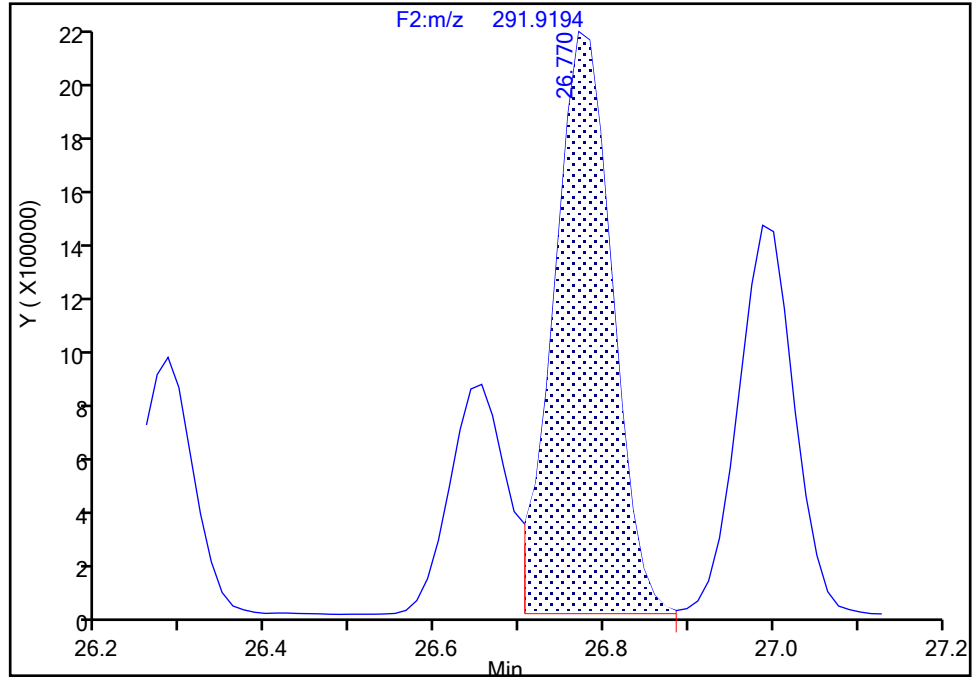
Detector F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 2

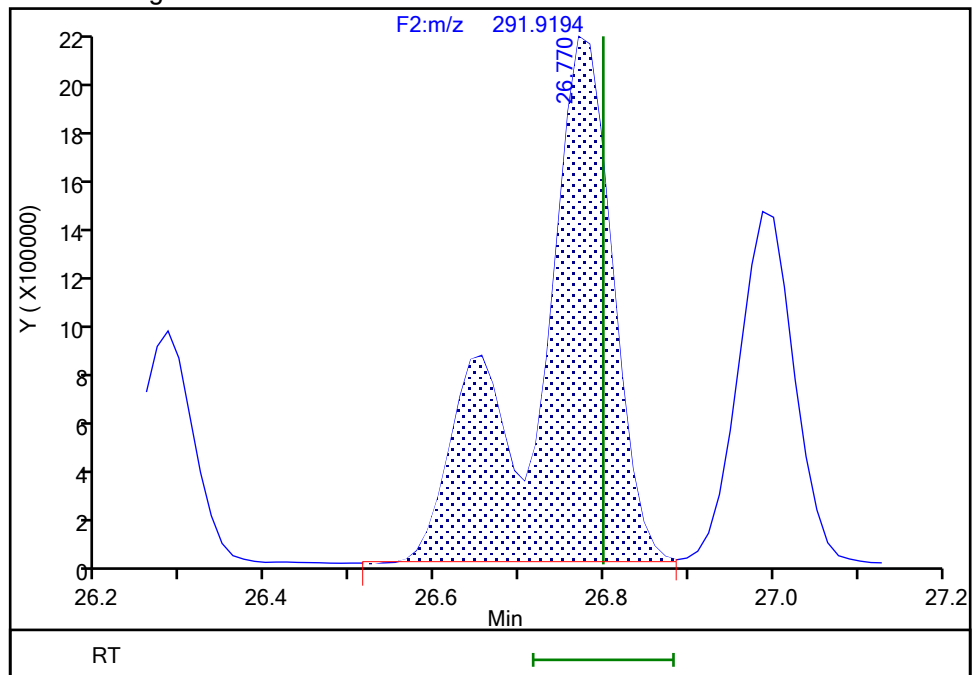
RT: 26.77  
Area: 10371796  
Amount: 211.0123  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.77  
Area: 14336238  
Amount: 292.3129  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

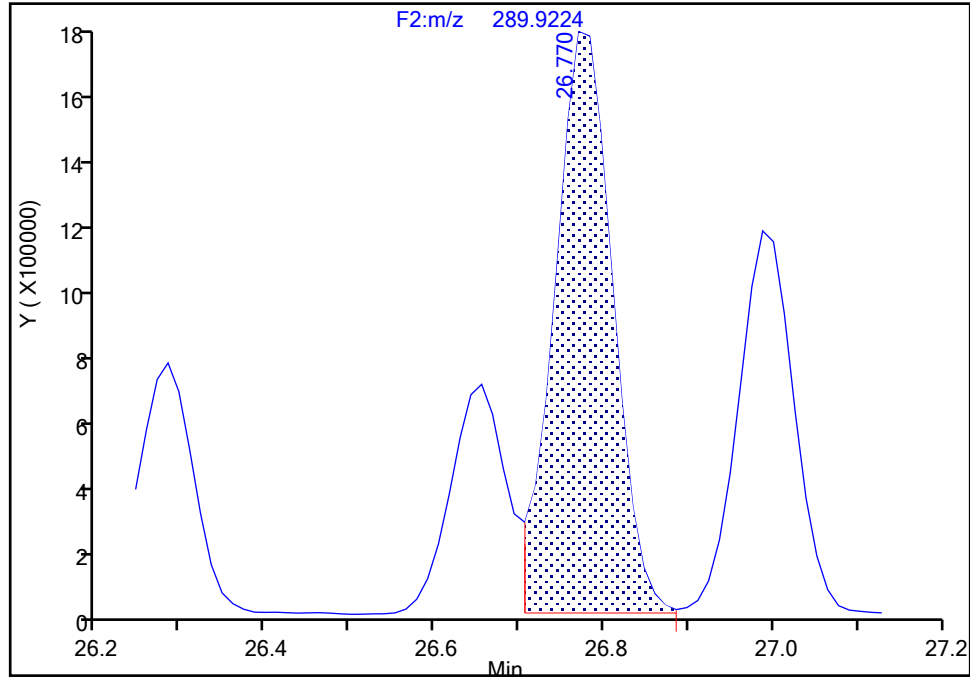
F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 1

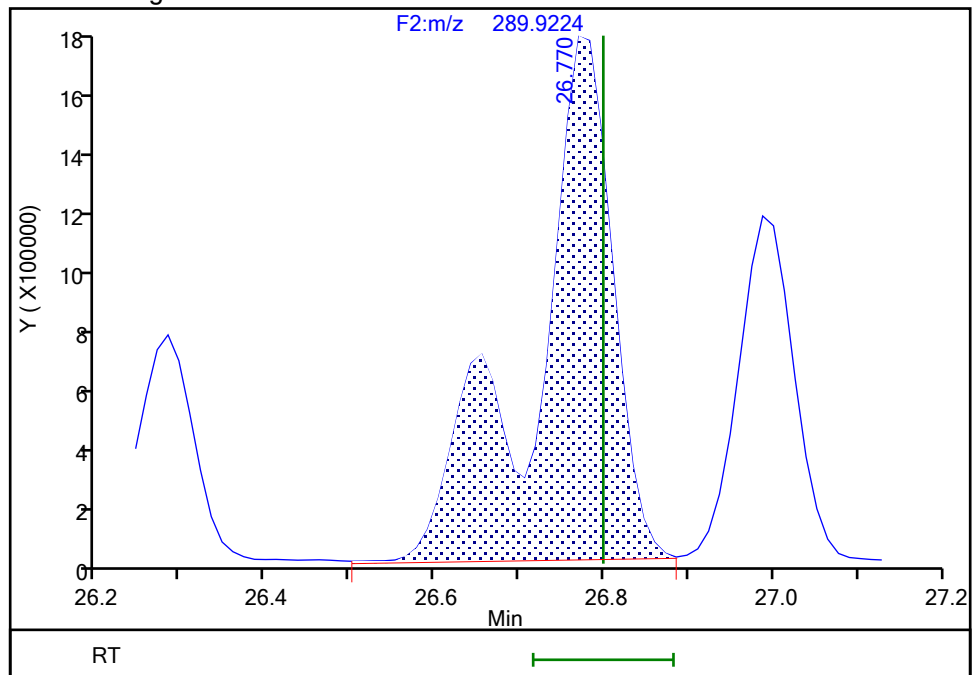
RT: 26.77  
Area: 8246305  
Amount: 211.0123  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.77  
Area: 11455207  
Amount: 292.3129  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:08:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

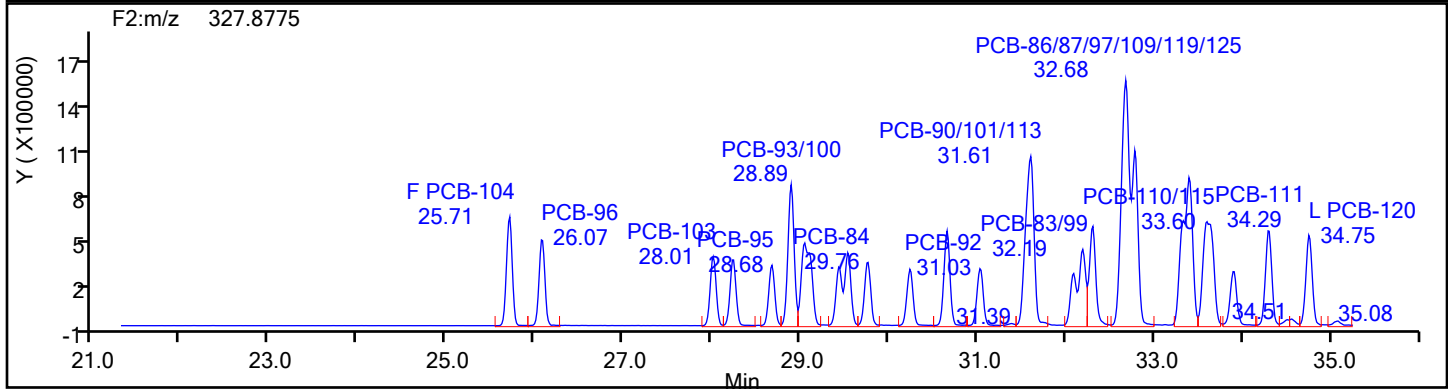
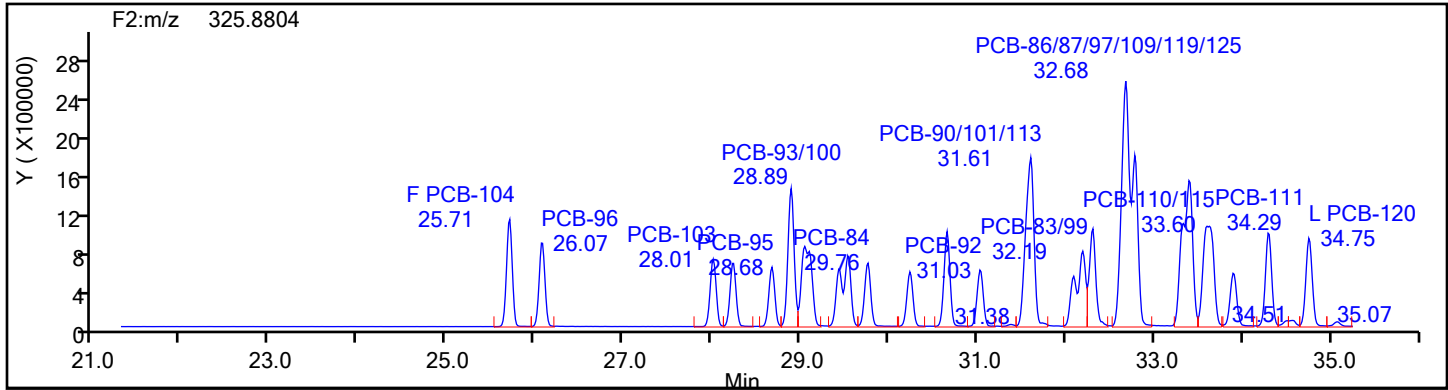
Worklist#: 87130

Sample Line#: 7

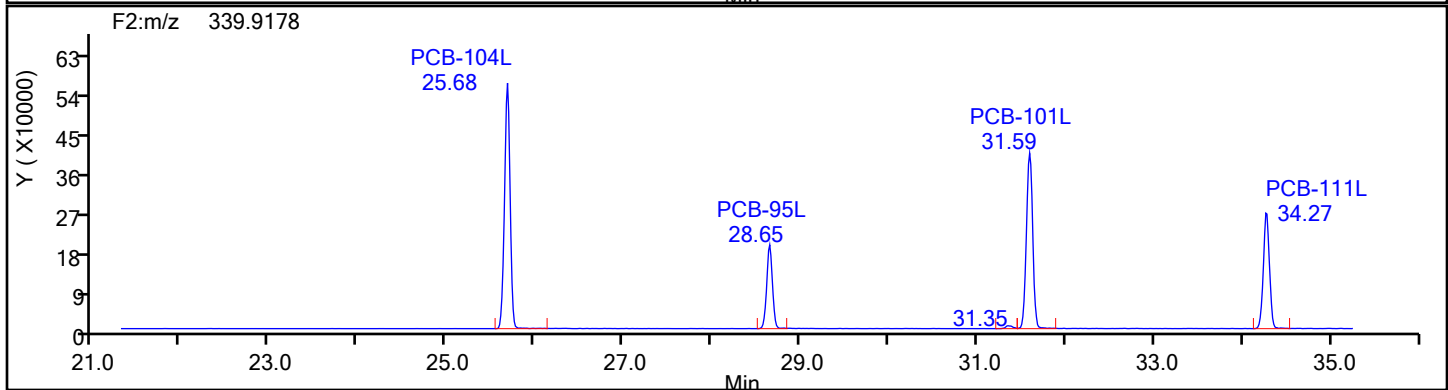
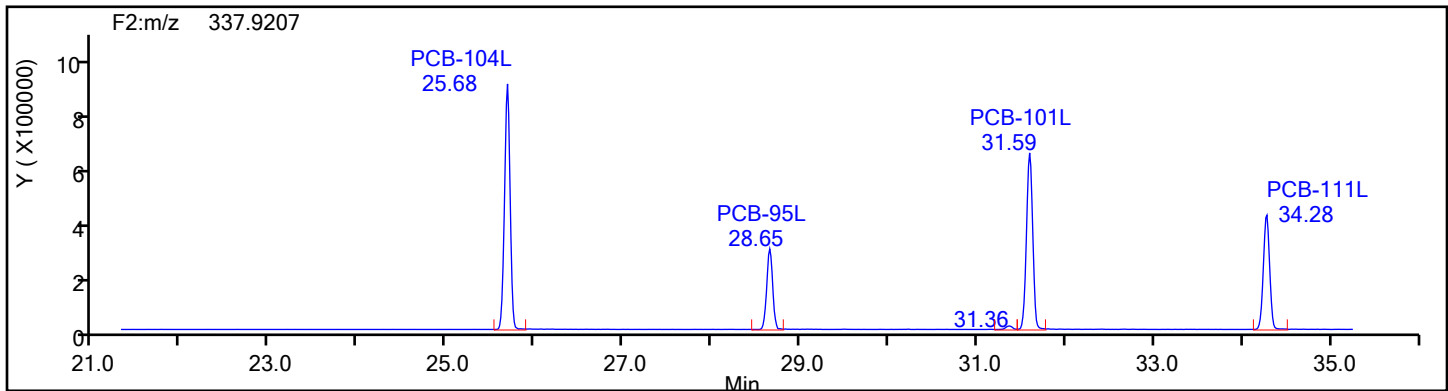
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

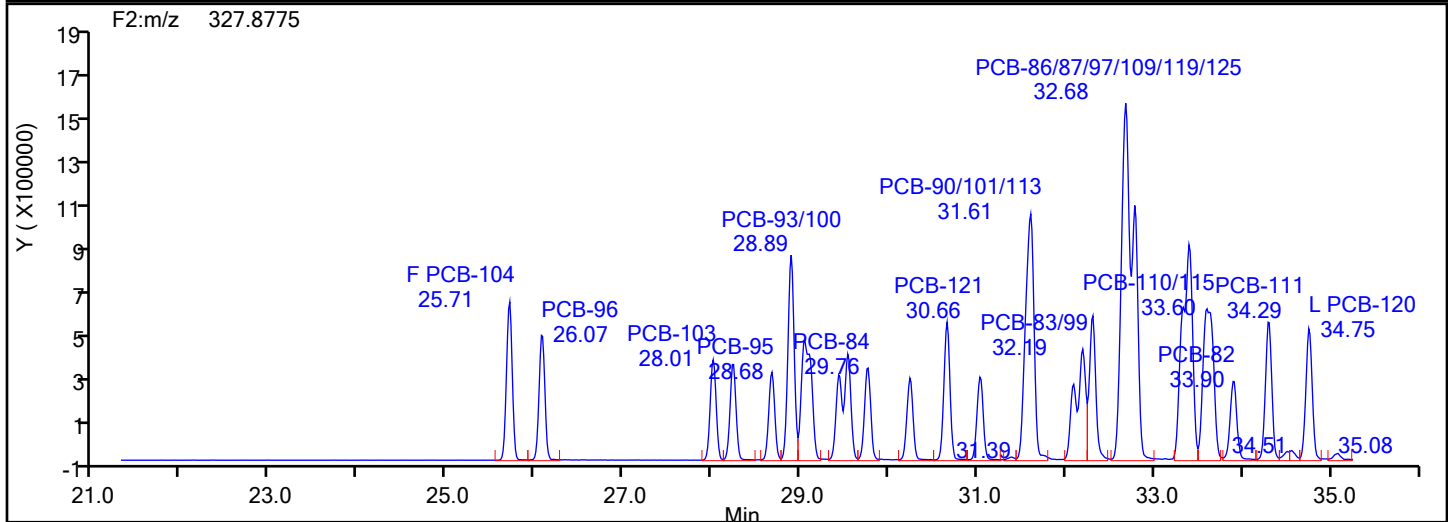
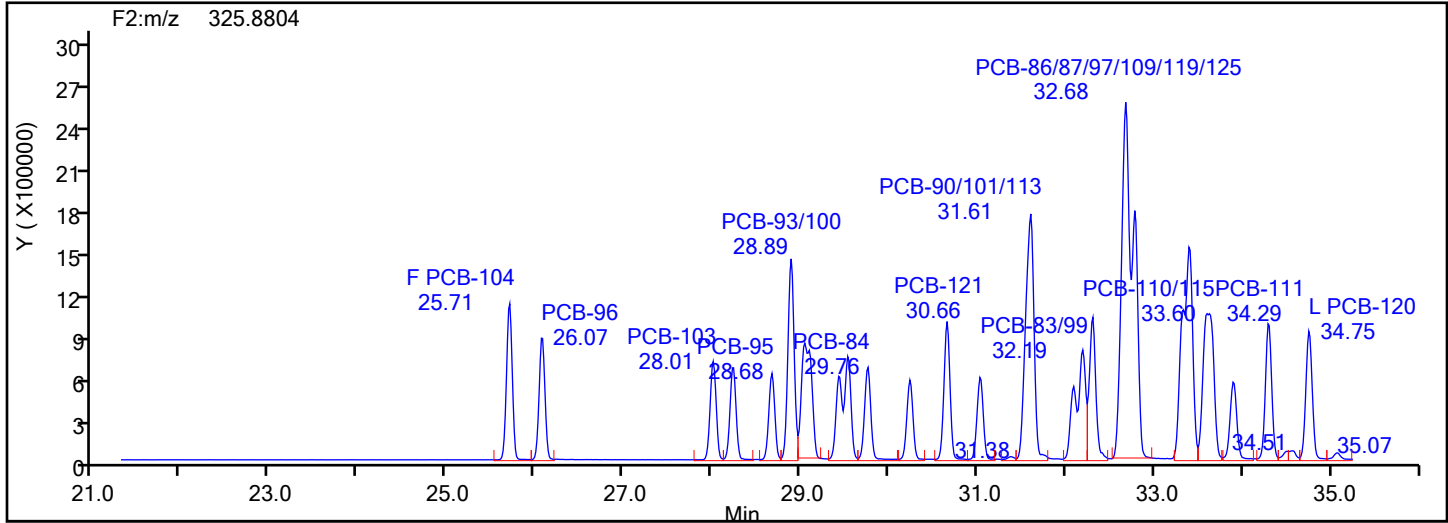


## PePCB F2 Standards

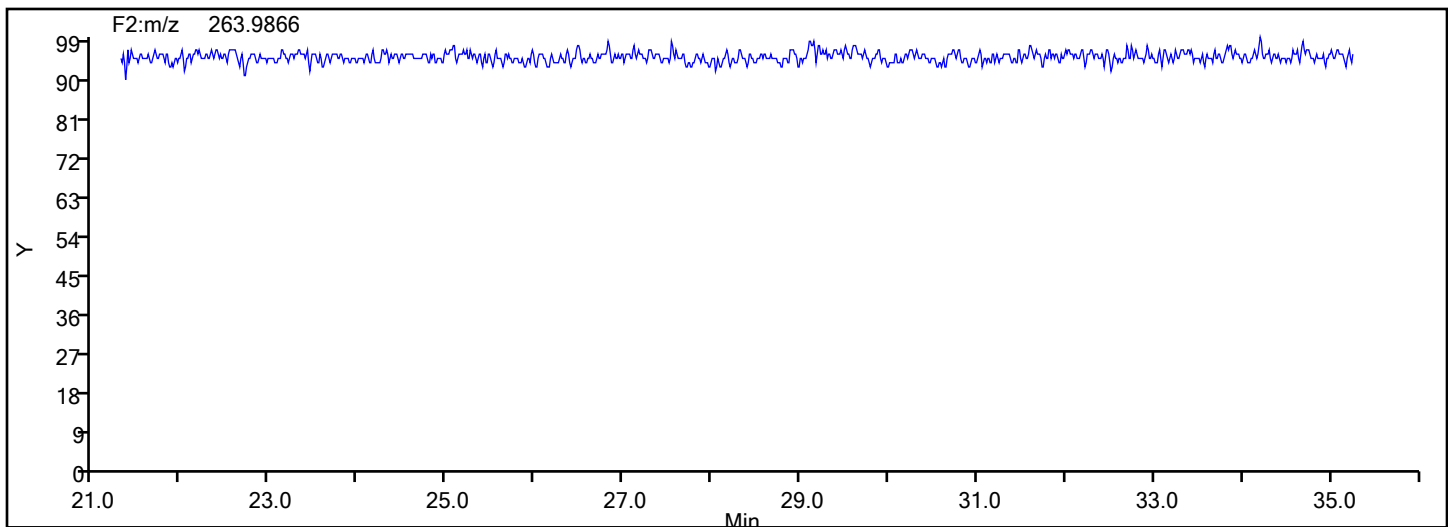


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d  
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

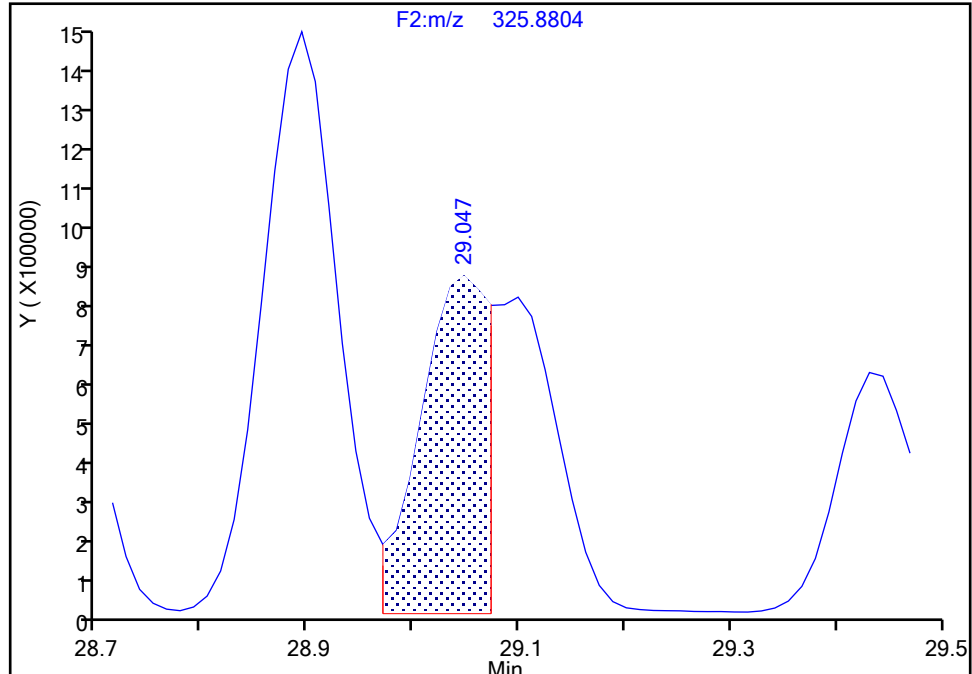
Detector F2(21.81 :35.54 )

**PCB-98/102, CAS: STL01843**

Signal: 1

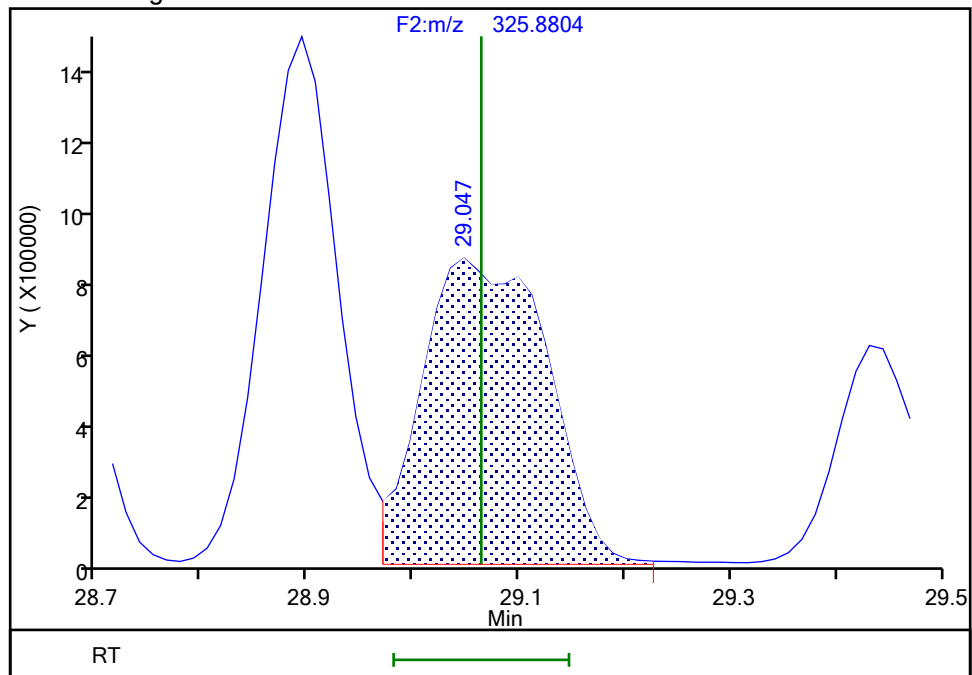
RT: 29.05  
Area: 3518179  
Amount: 143.9766  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.05  
Area: 6677250  
Amount: 206.3385  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

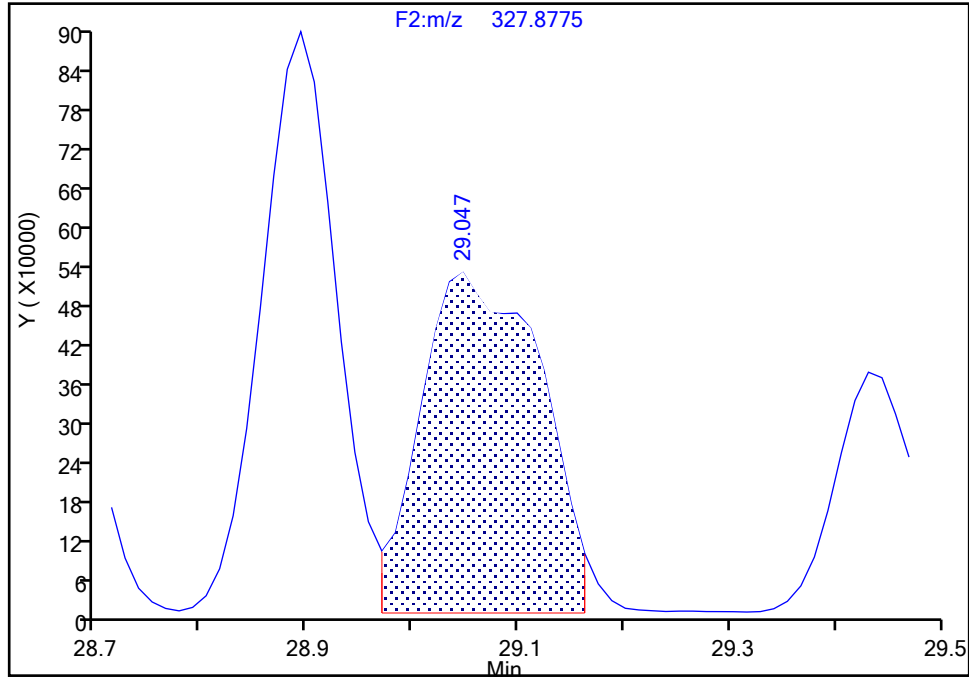
F2(21.81 :35.54 )

PCB-98/102, CAS: STL01843

Signal: 2

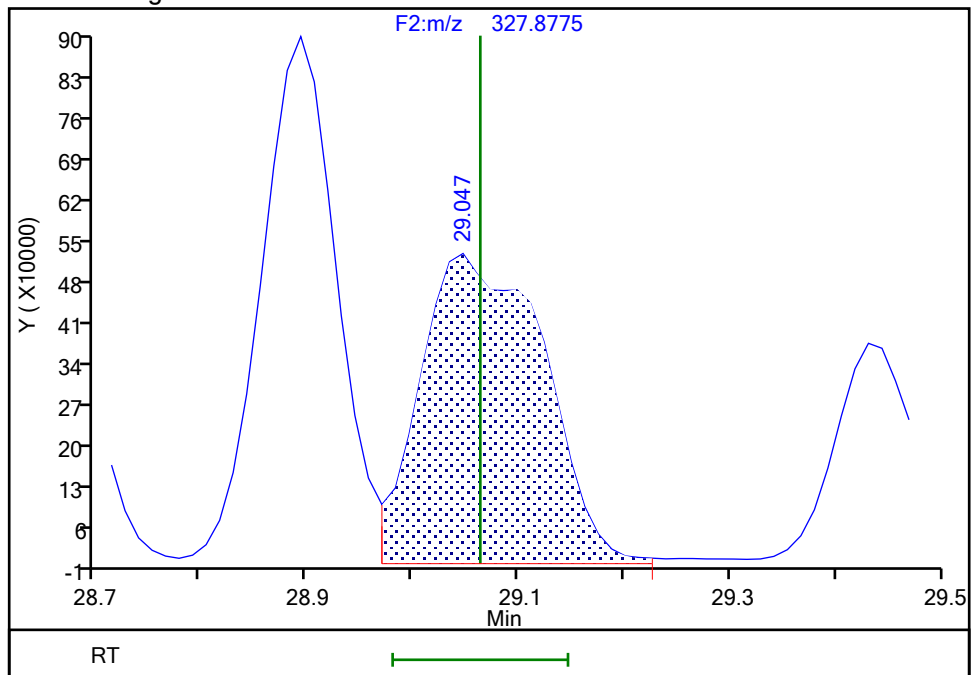
RT: 29.05  
Area: 4119534  
Amount: 143.9766  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.05  
Area: 4268659  
Amount: 206.3385  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

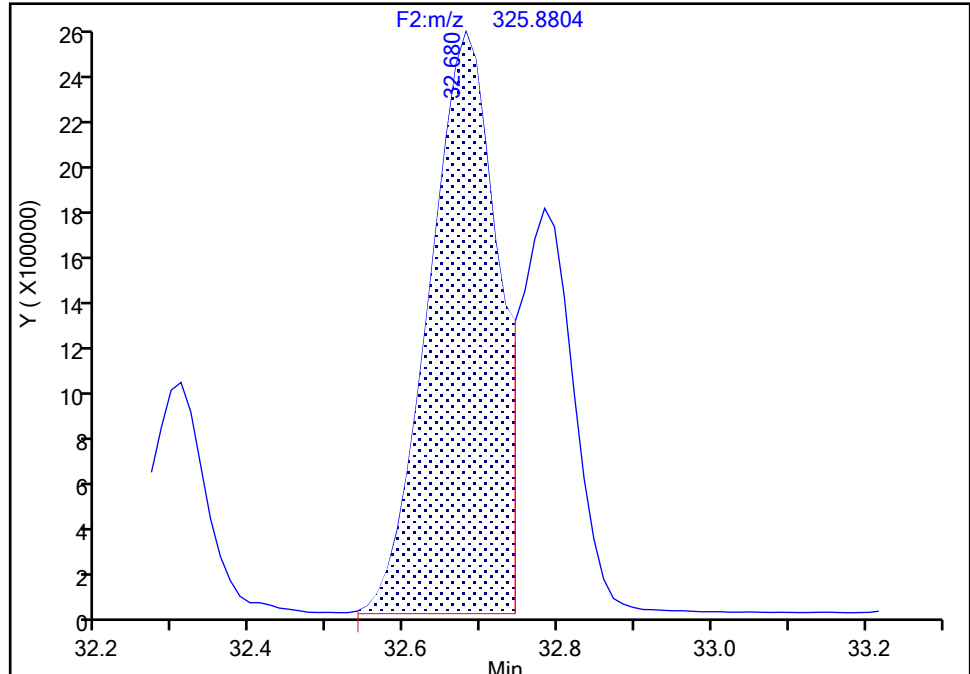
F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

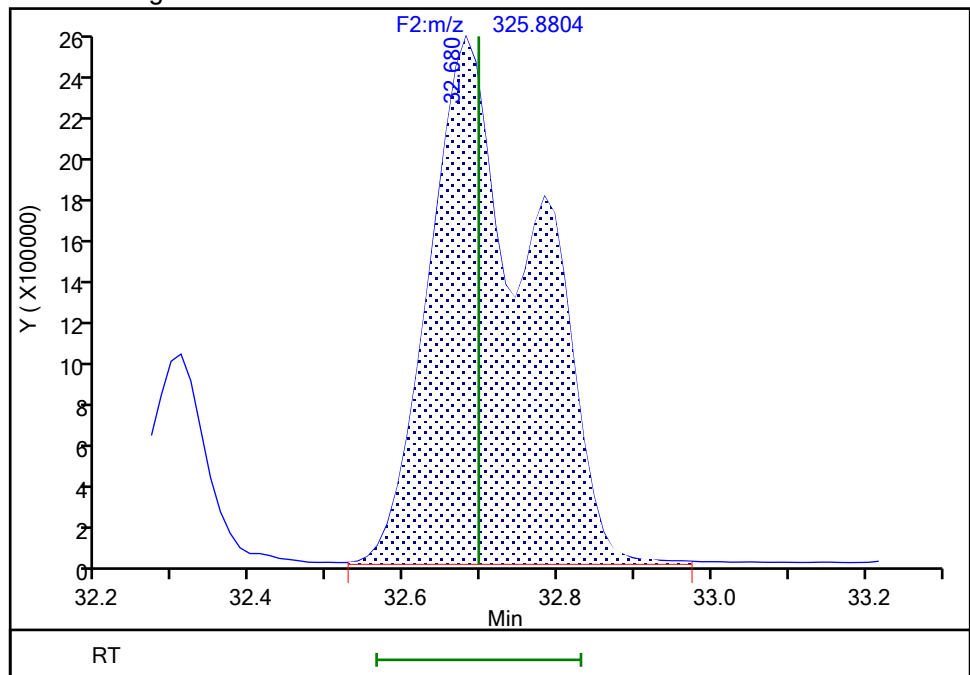
RT: 32.68  
Area: 15425847  
Amount: 374.4641  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.68  
Area: 23519251  
Amount: 573.6652  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:41 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

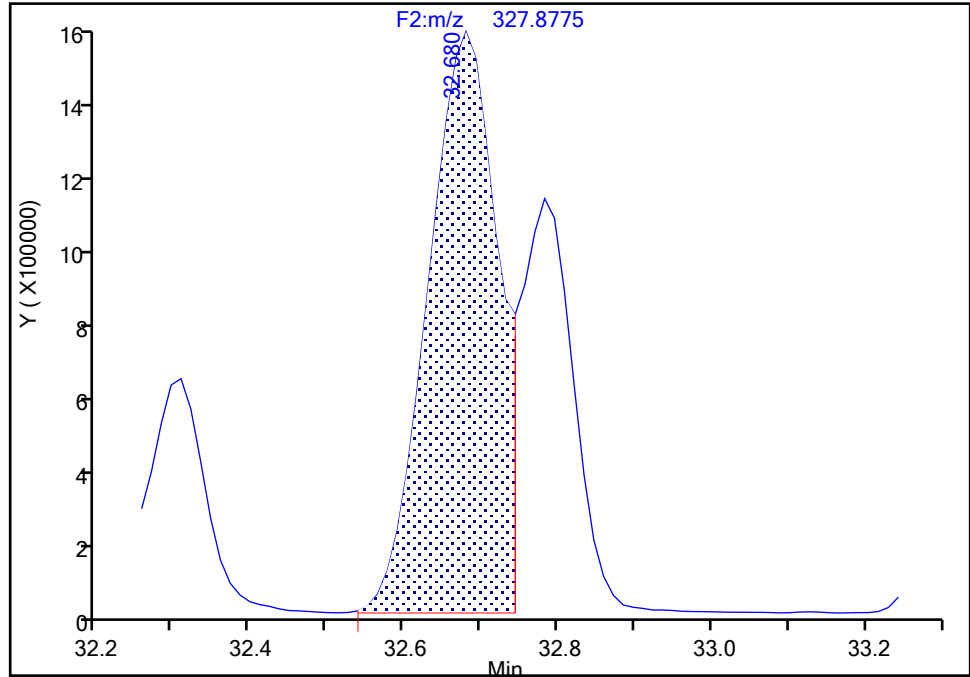
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d  
Injection Date: 31-May-2024 22:58:00 Instrument ID: D2D  
Lims ID: ICV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

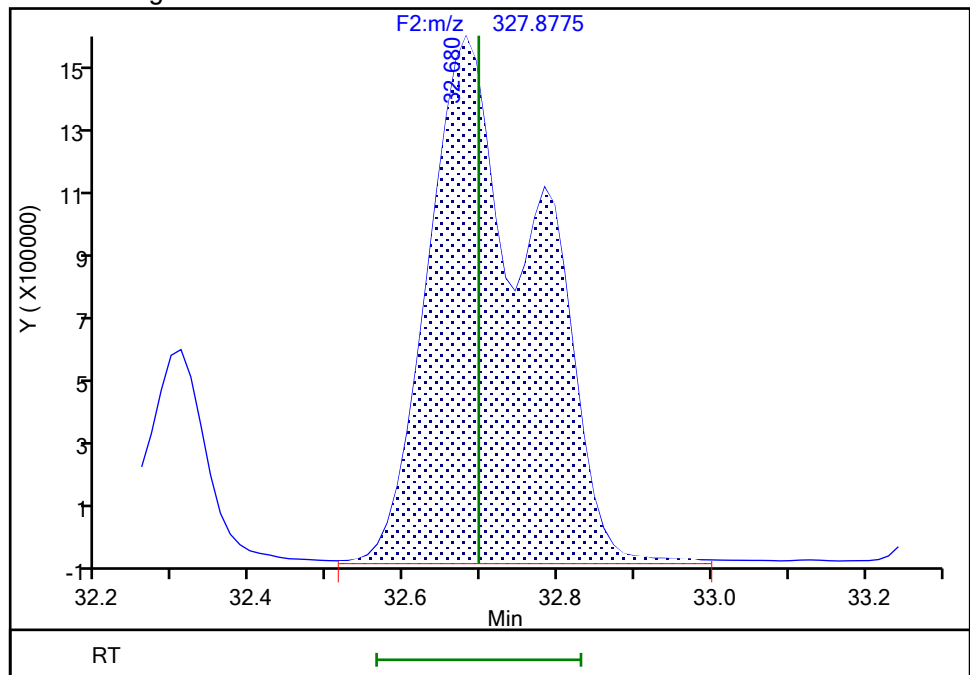
RT: 32.68  
Area: 9755487  
Amount: 374.4641  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.68  
Area: 15057631  
Amount: 573.6652  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:09:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-F-2024-04804  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

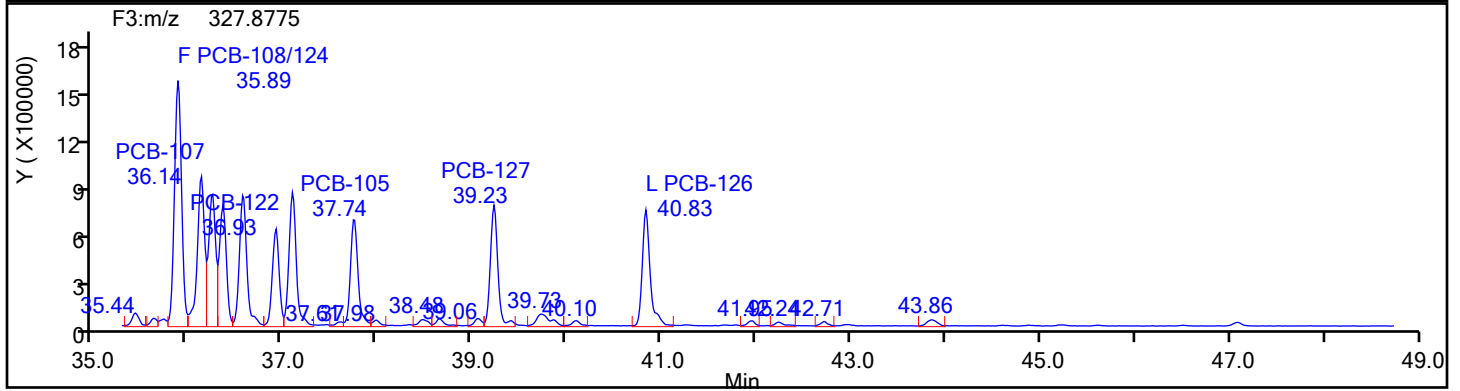
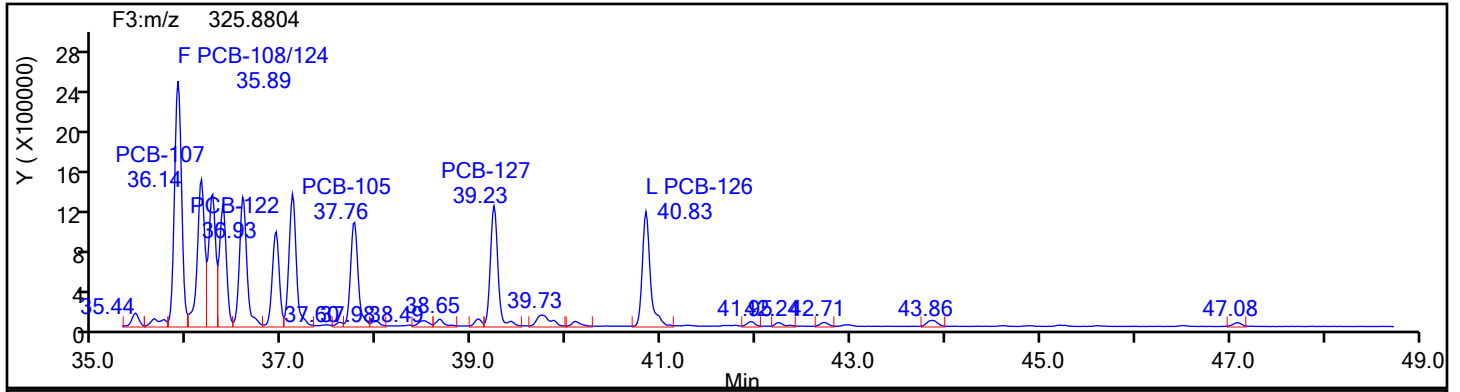
Worklist#: 87130

Sample Line#: 7

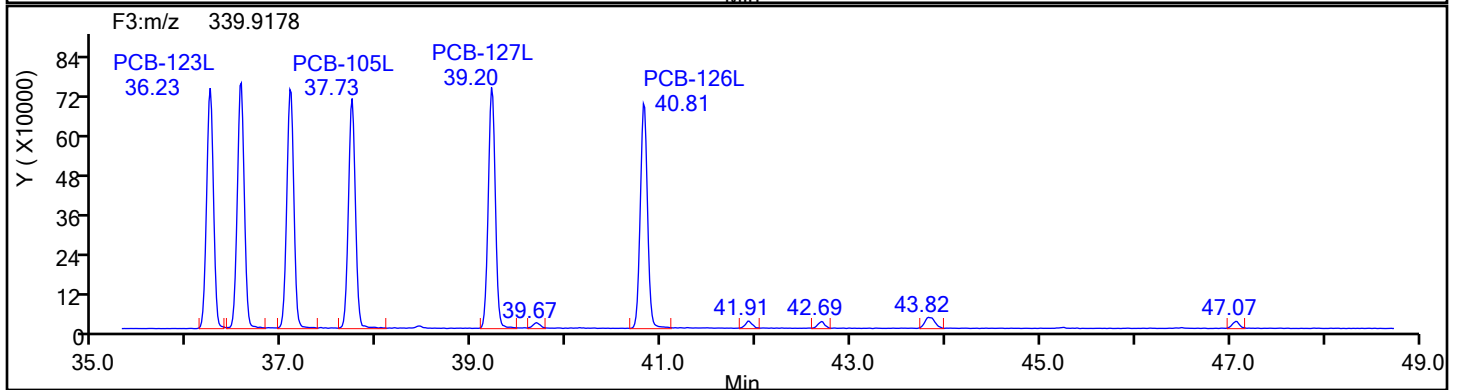
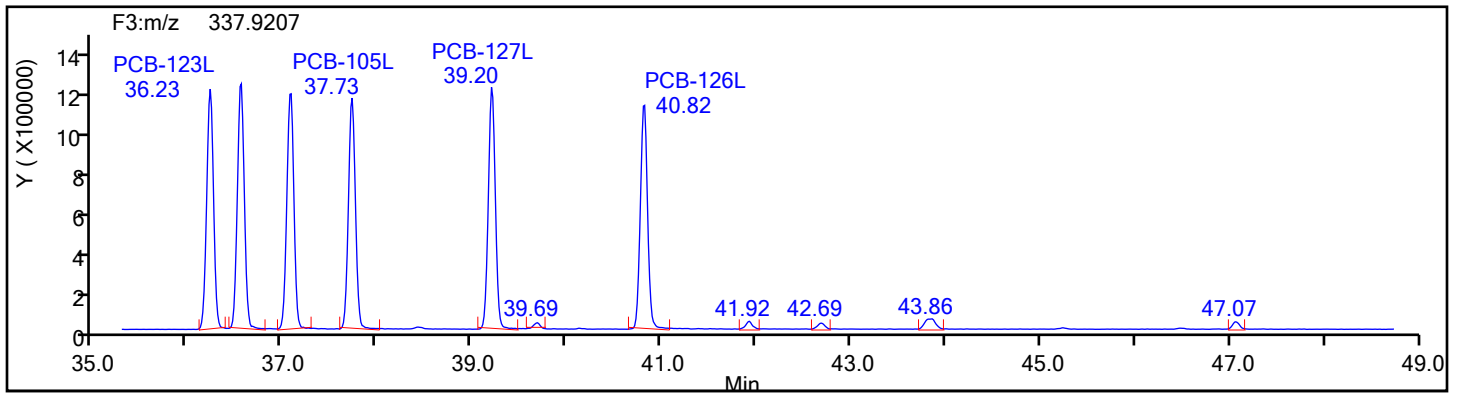
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

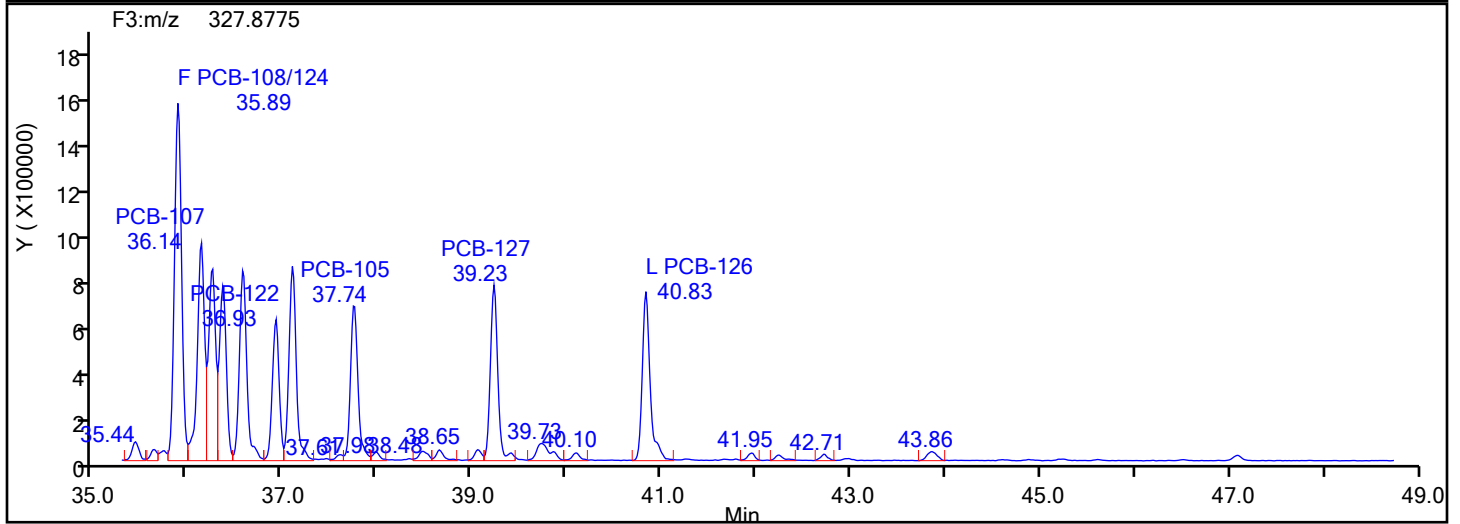
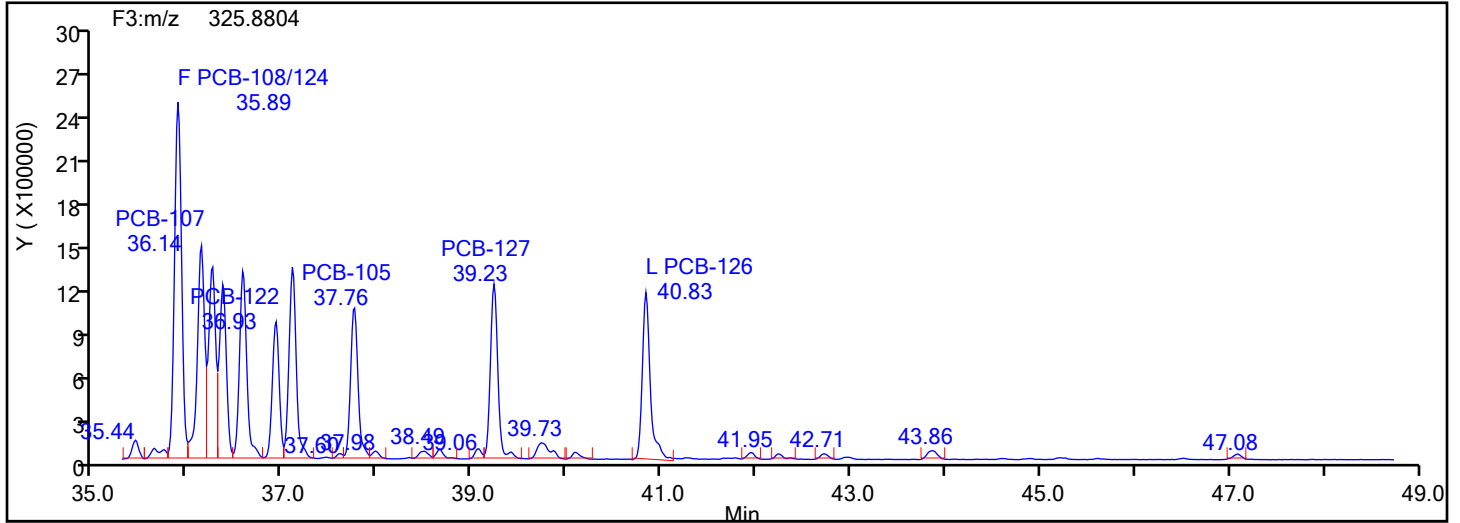
Worklist#: 87130

Sample Line#: 7

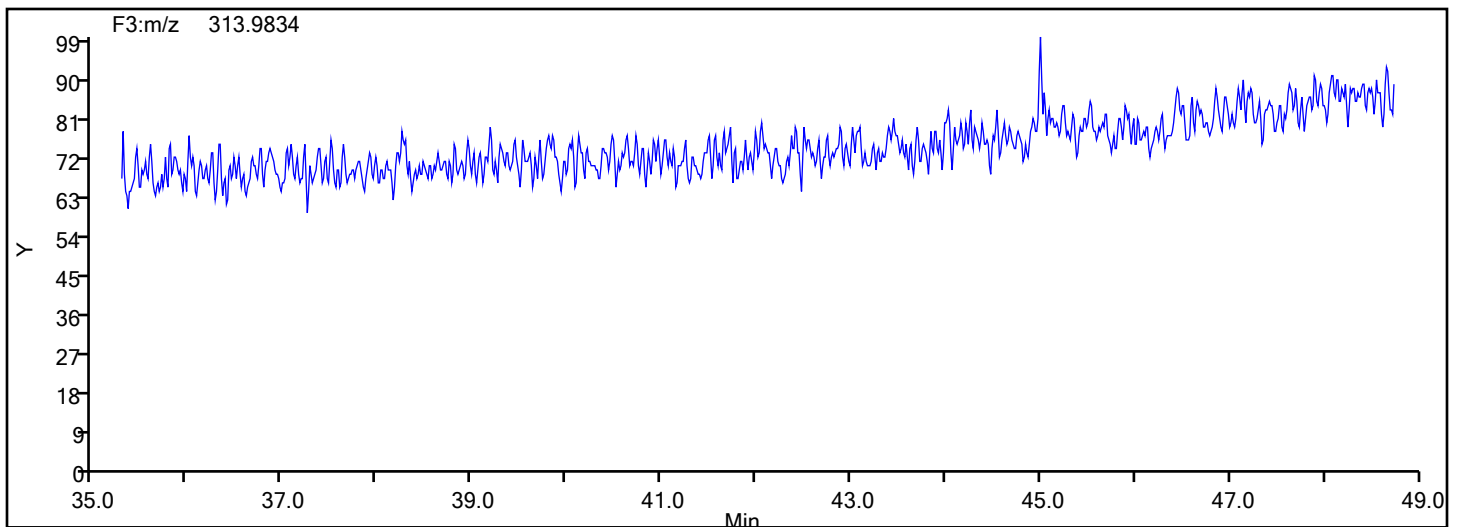
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



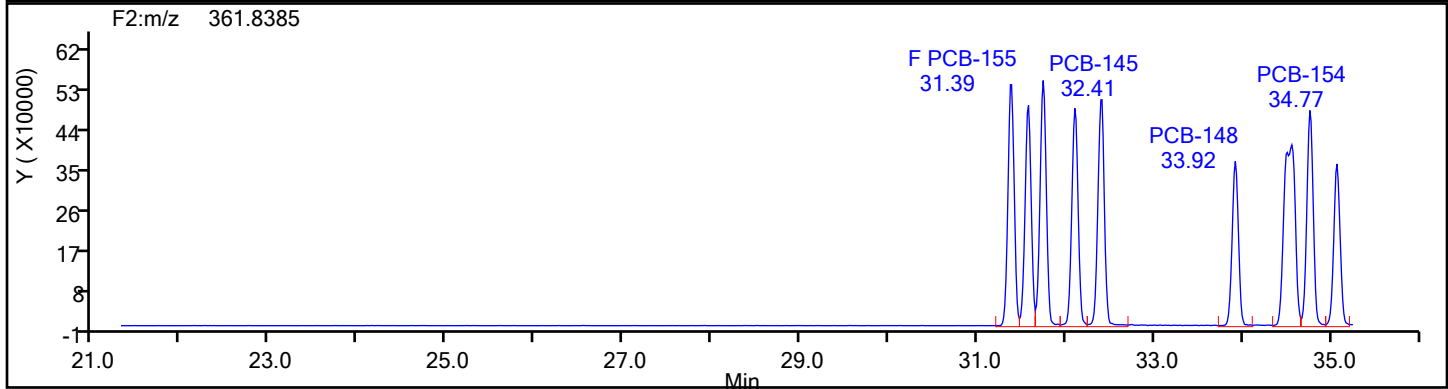
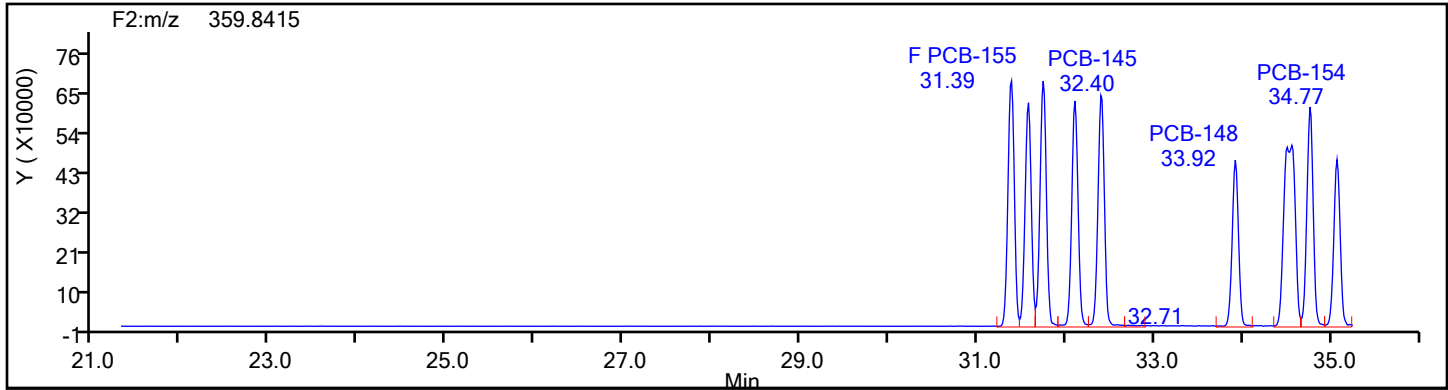
## PePCB F3 Lock Mass



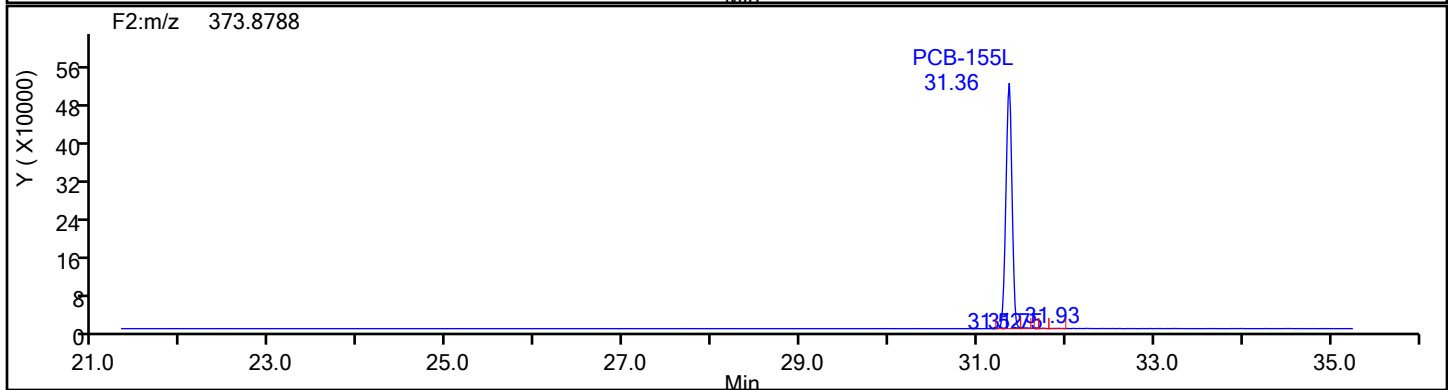
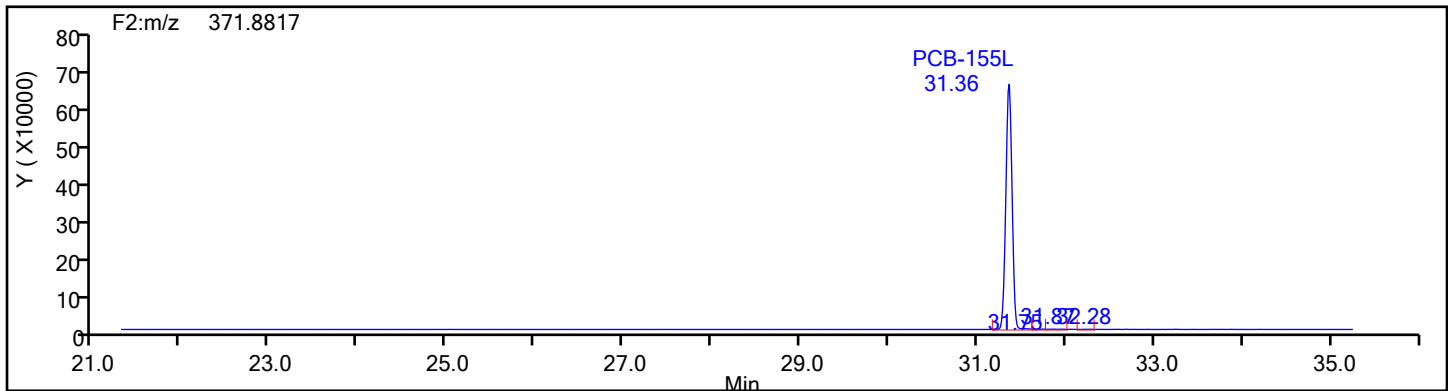


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d  
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

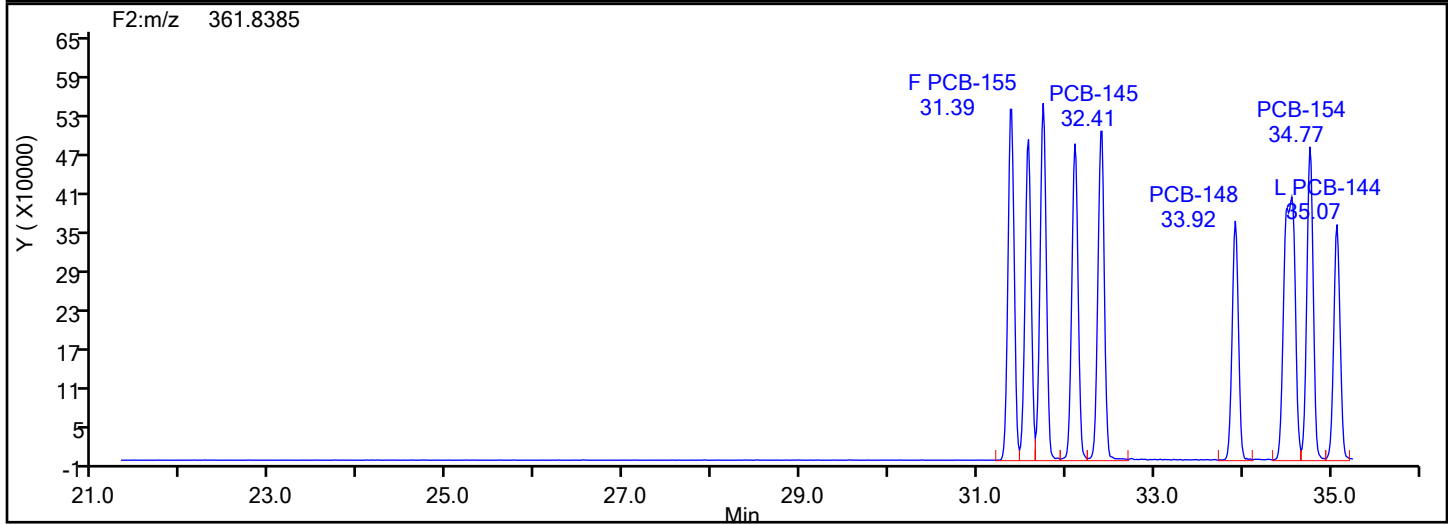
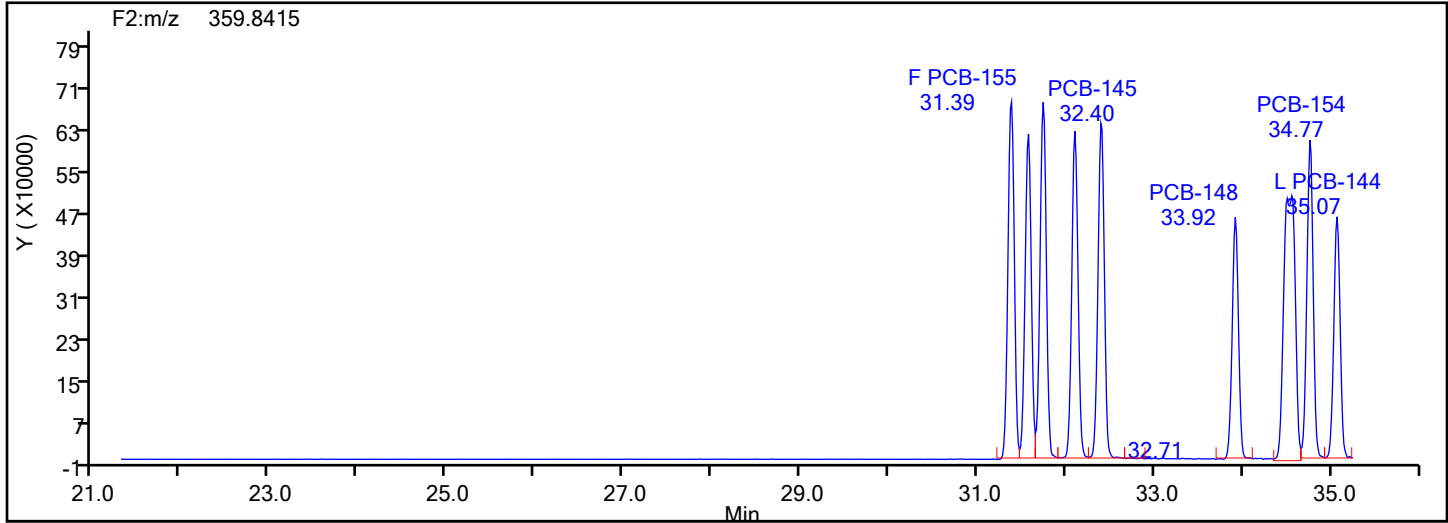
Worklist#: 87130

Sample Line#: 7

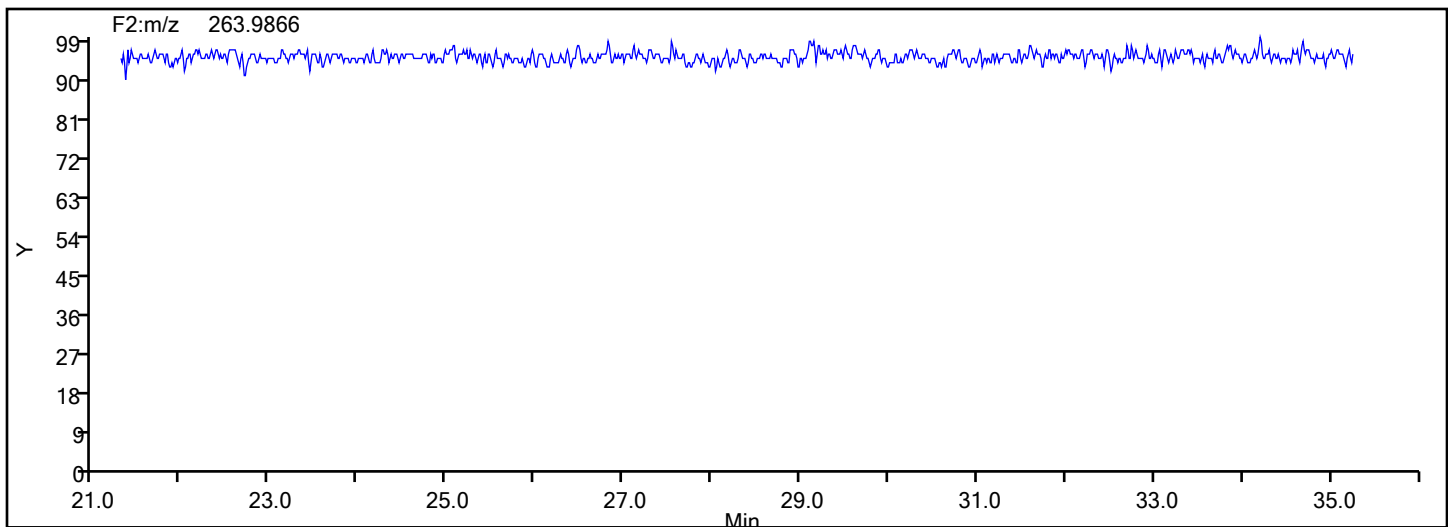
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

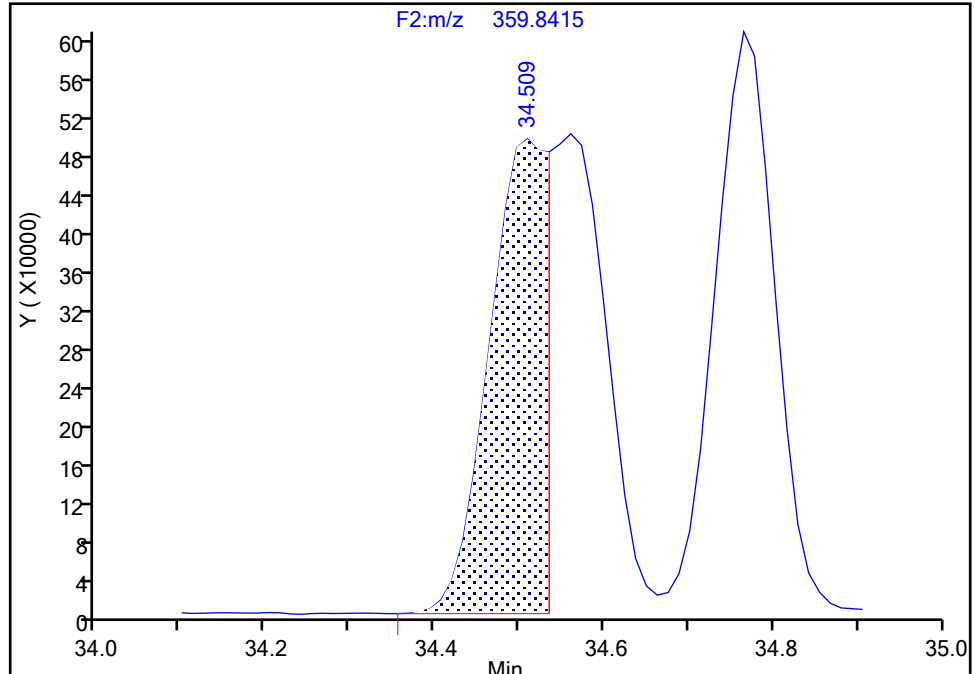
F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 1

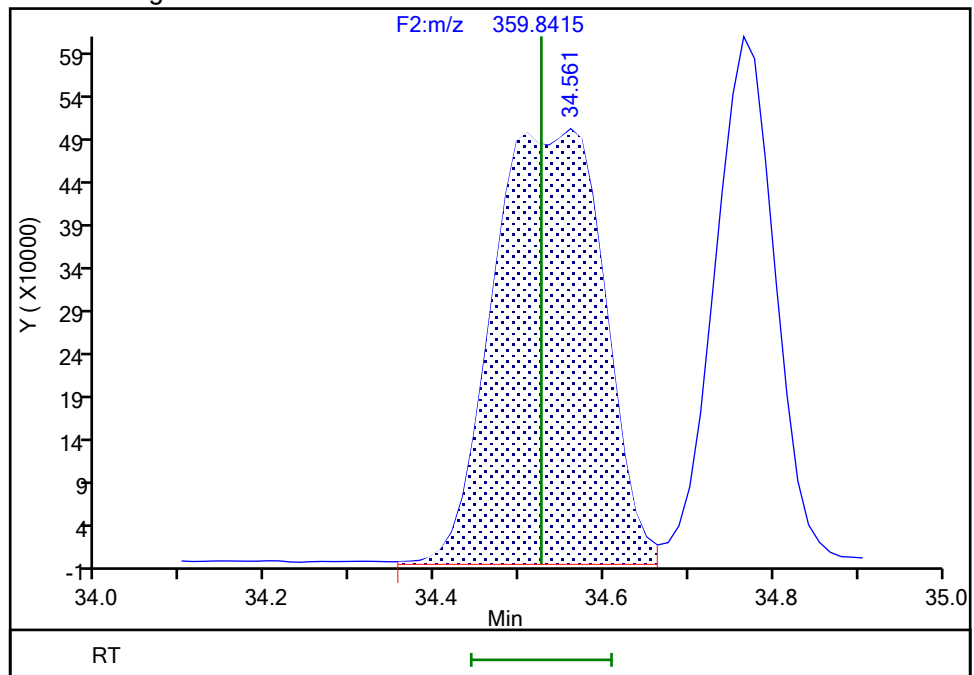
RT: 34.51  
Area: 2291087  
Amount: 91.434676  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.56  
Area: 4550681  
Amount: 196.2216  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:10:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

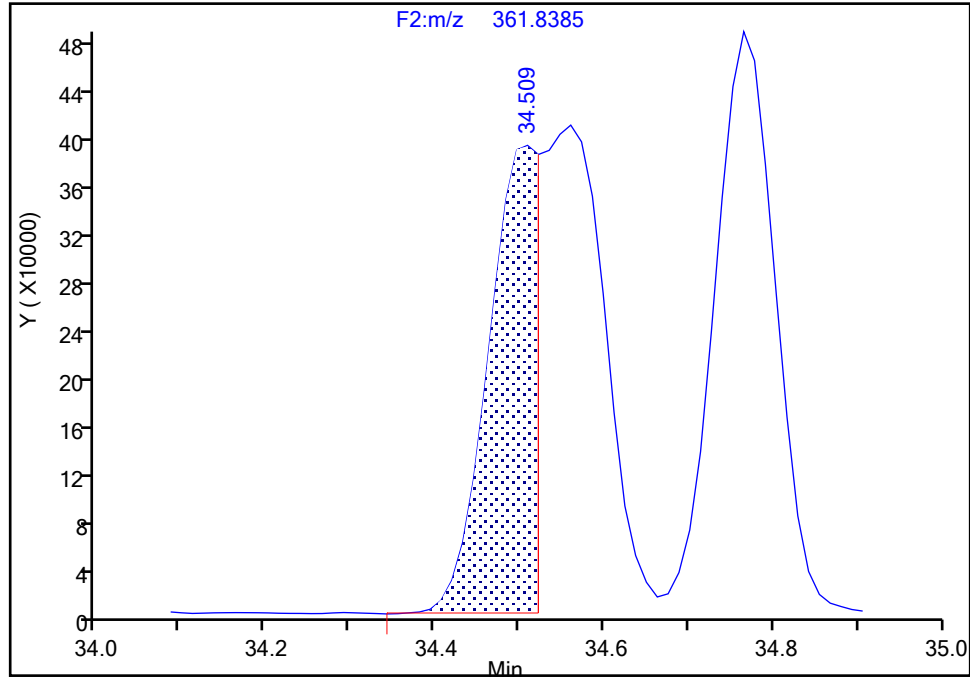
F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 2

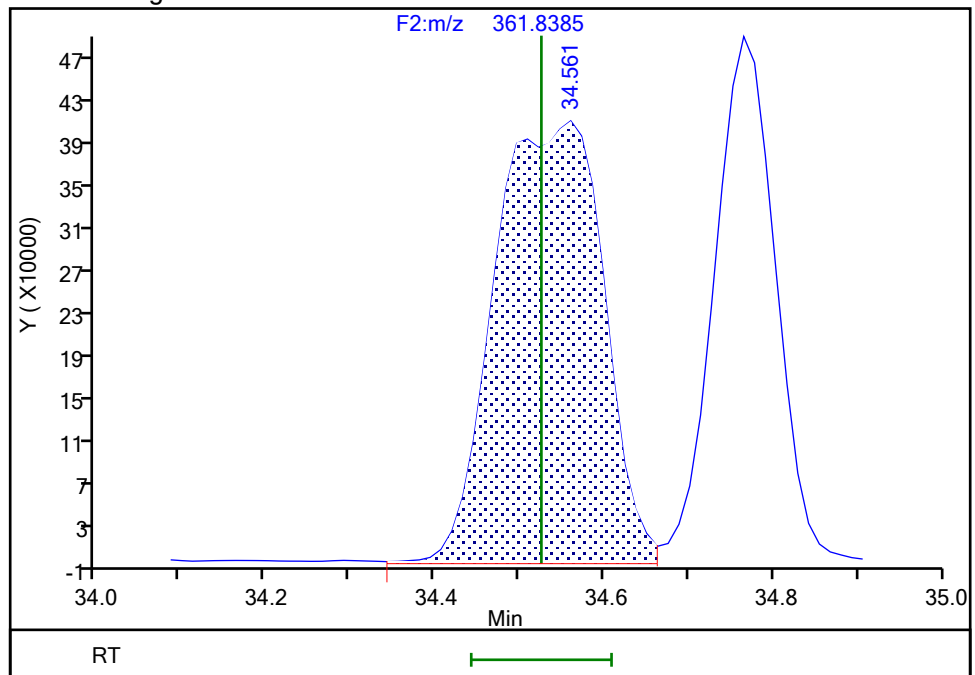
RT: 34.51  
Area: 1513215  
Amount: 91.434676  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.56  
Area: 3613466  
Amount: 196.2216  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:10:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

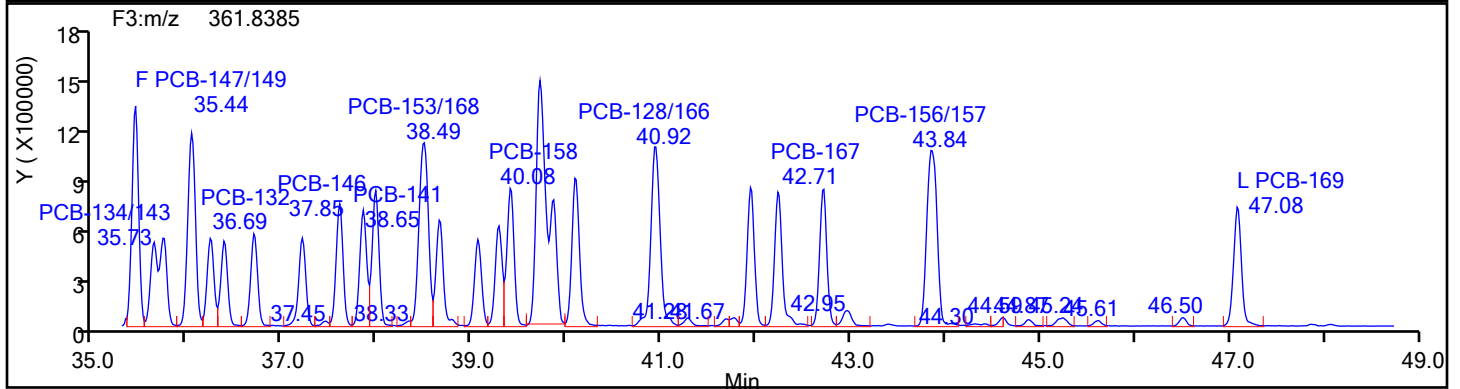
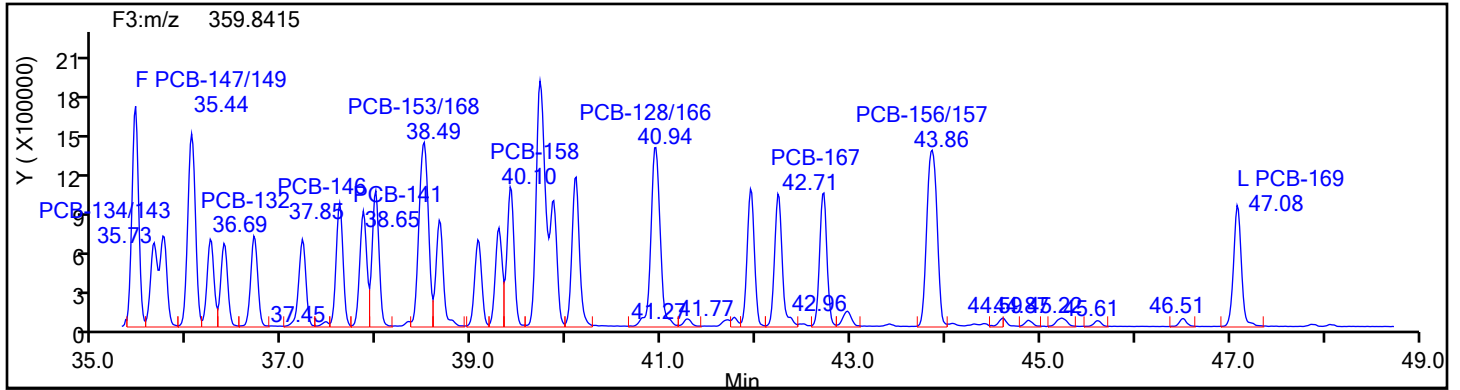
Worklist#: 87130

Sample Line#: 7

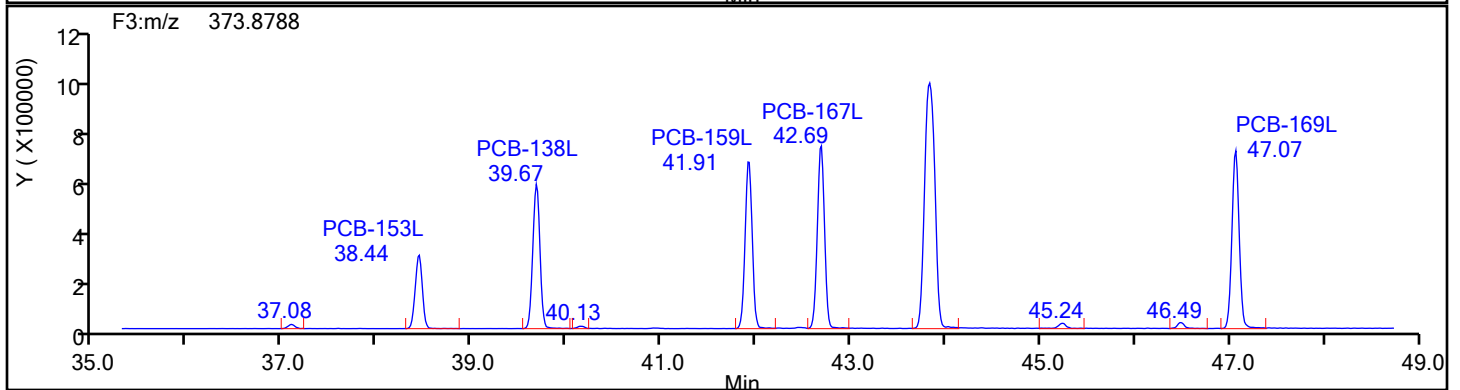
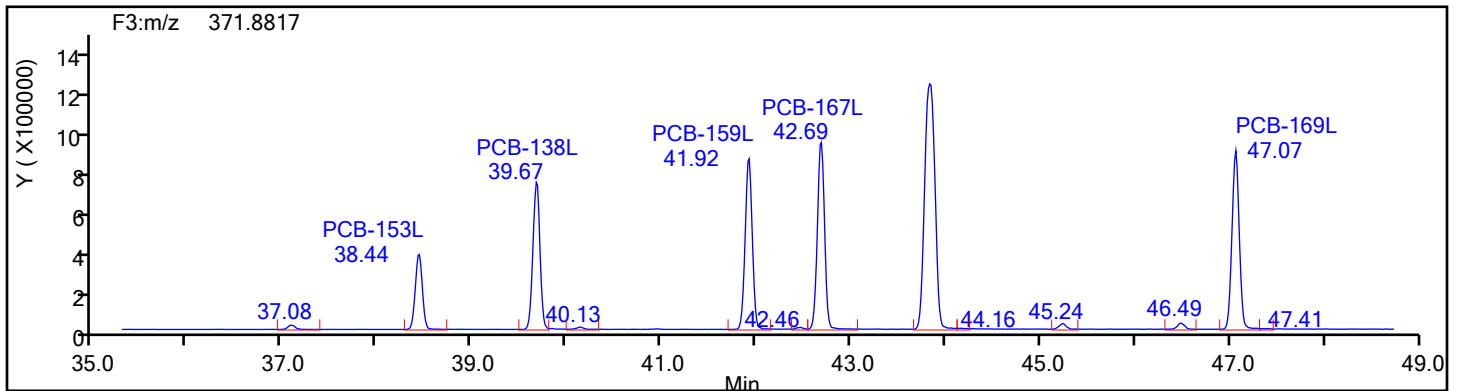
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

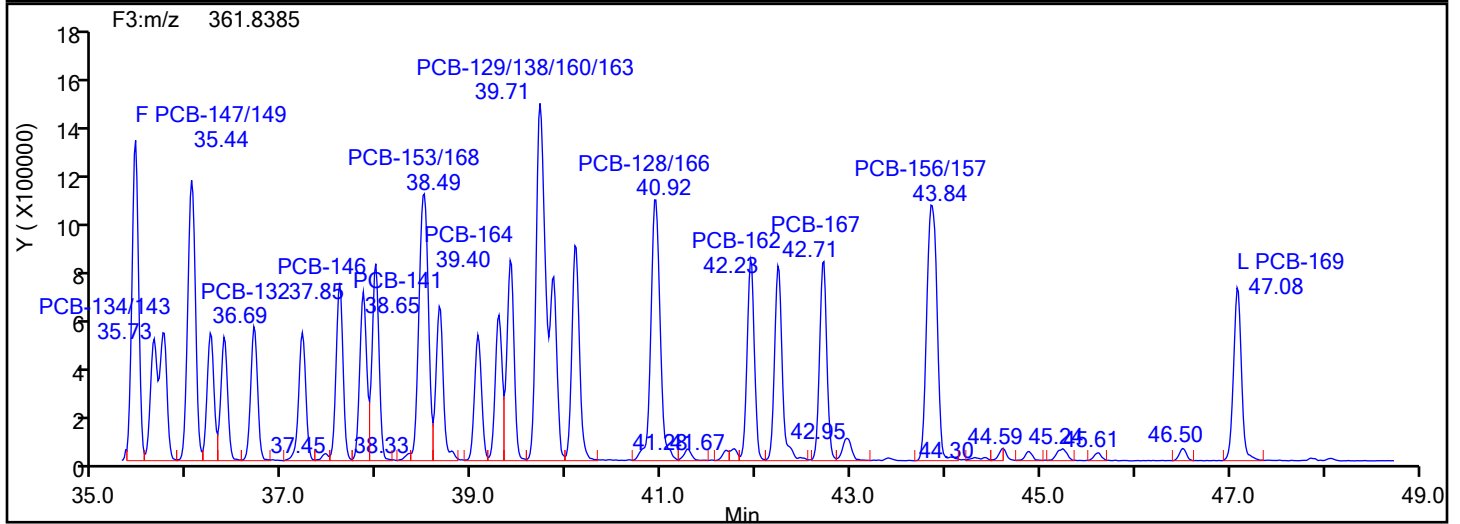
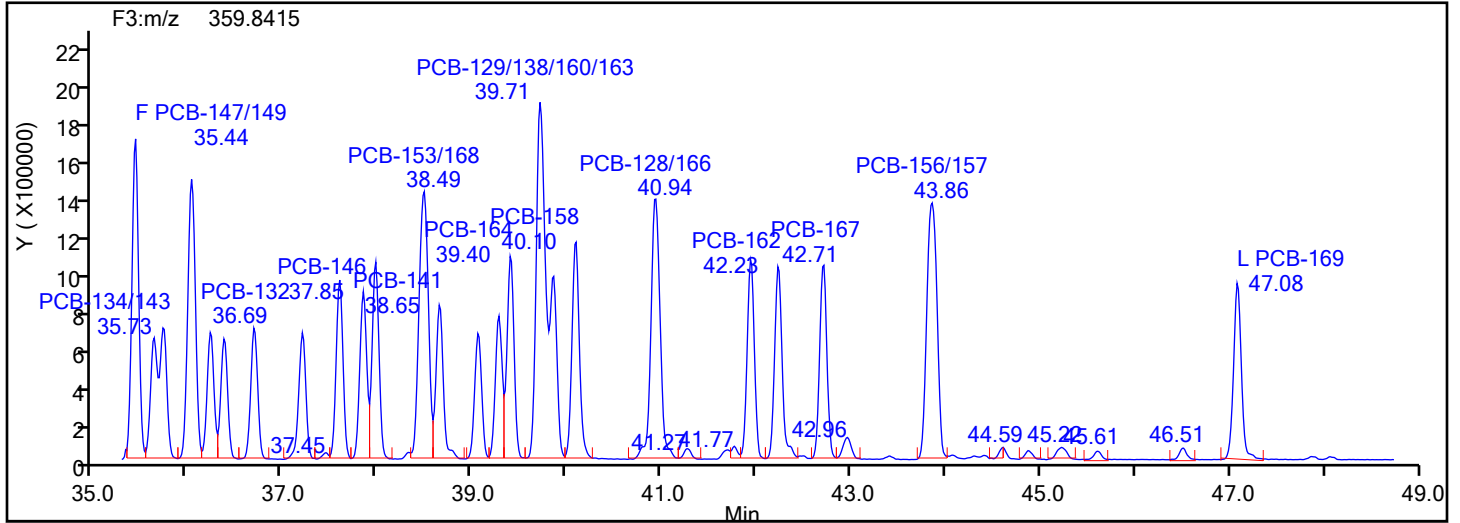
Worklist#: 87130

Sample Line#: 7

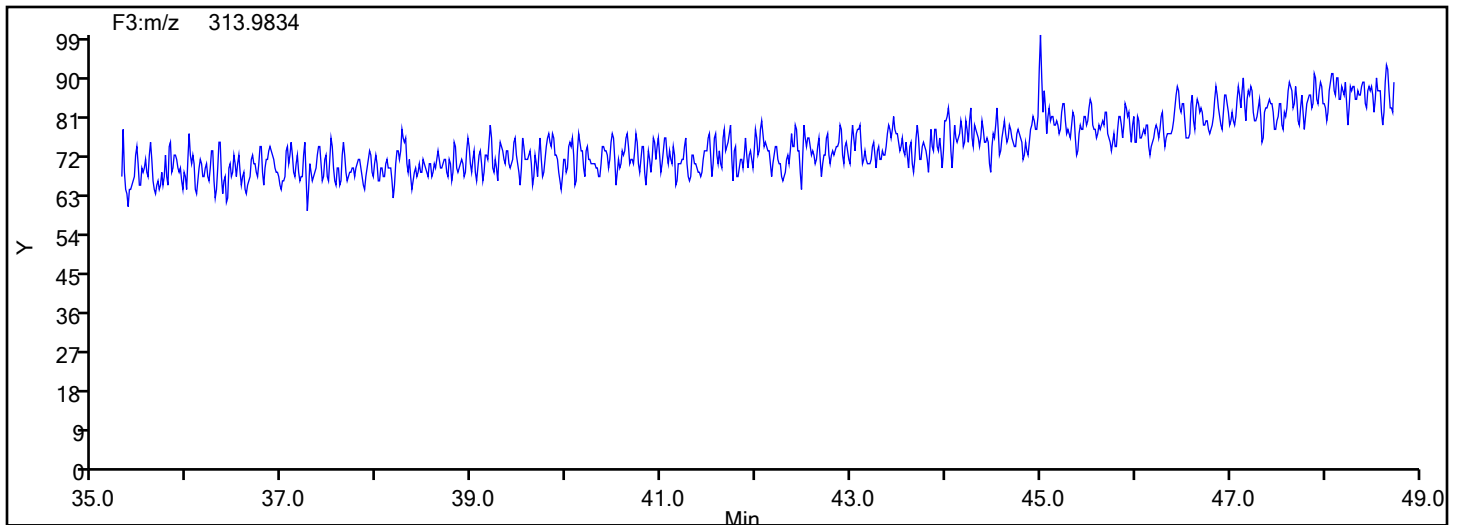
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

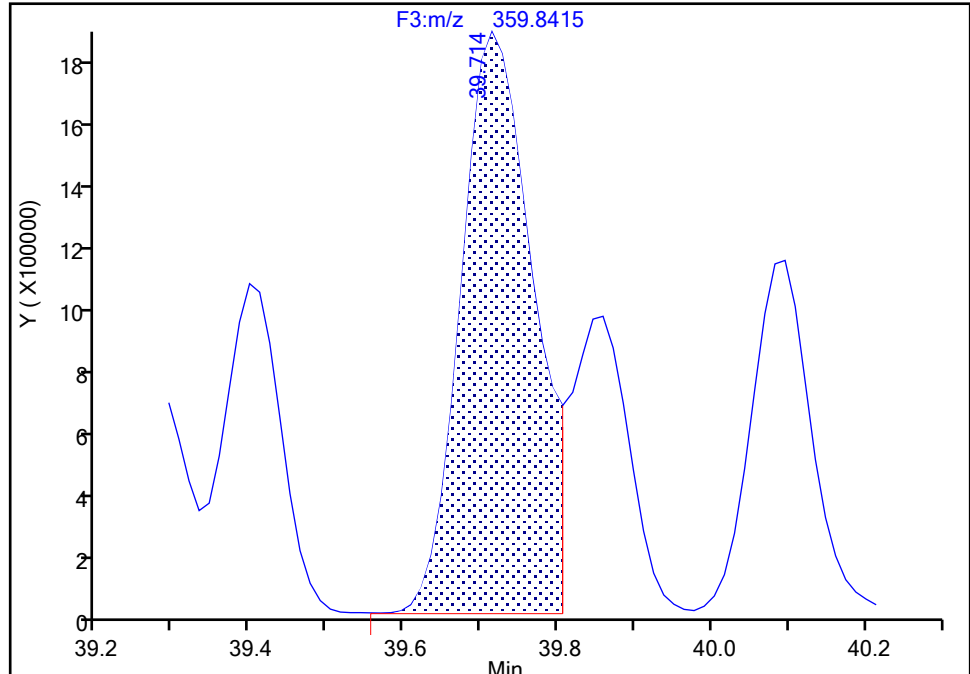
F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

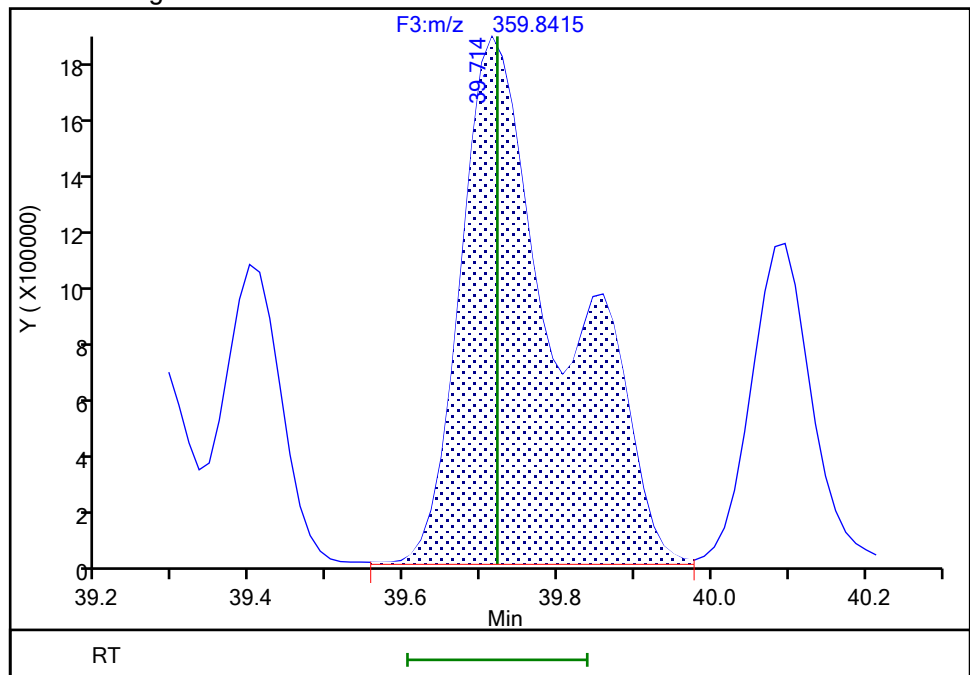
RT: 39.71  
Area: 12104636  
Amount: 281.2795  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.71  
Area: 17023216  
Amount: 394.5828  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:10:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

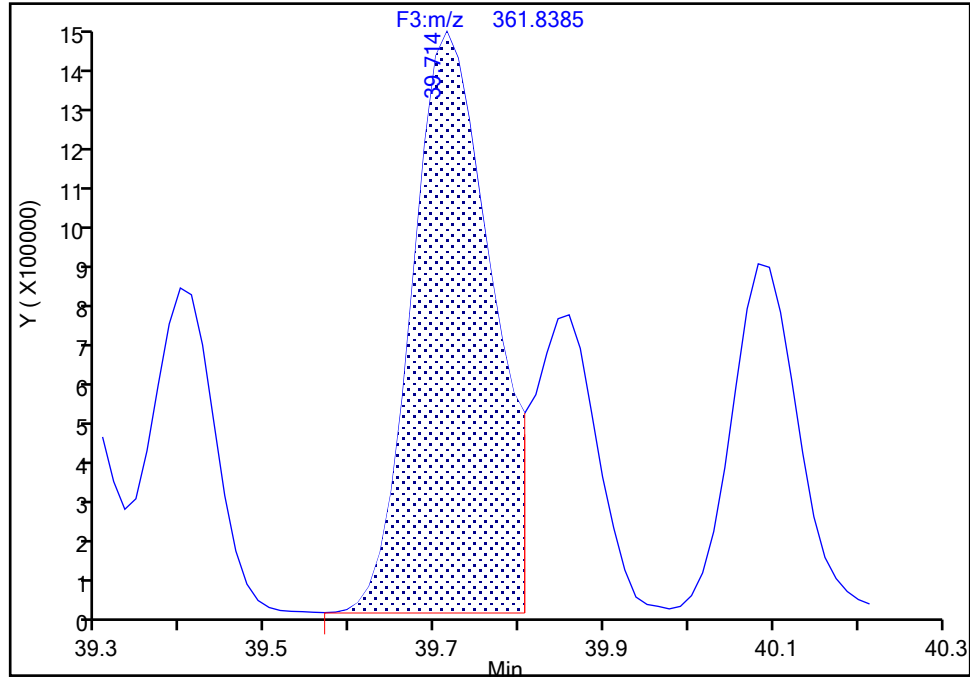
Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d  
Injection Date: 31-May-2024 22:58:00 Instrument ID: D2D  
Lims ID: ICV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

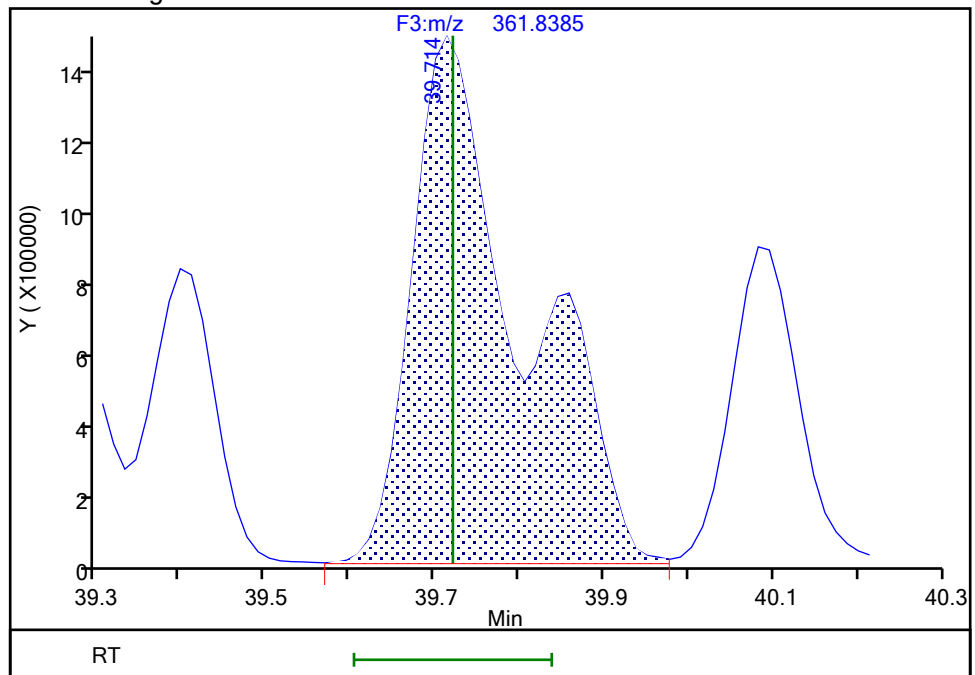
RT: 39.71  
Area: 9688953  
Amount: 281.2795  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.71  
Area: 13549137  
Amount: 394.5828  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:11:03 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

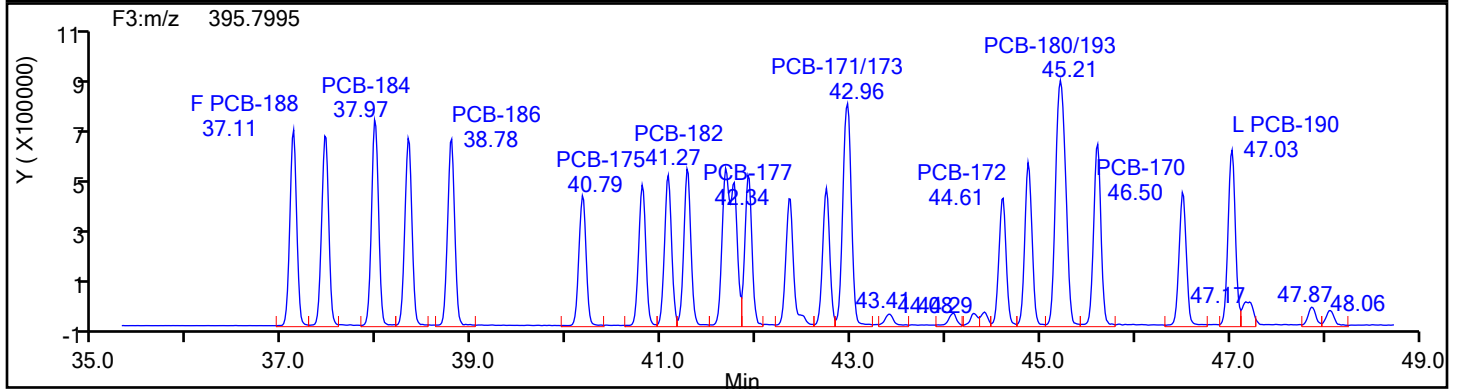
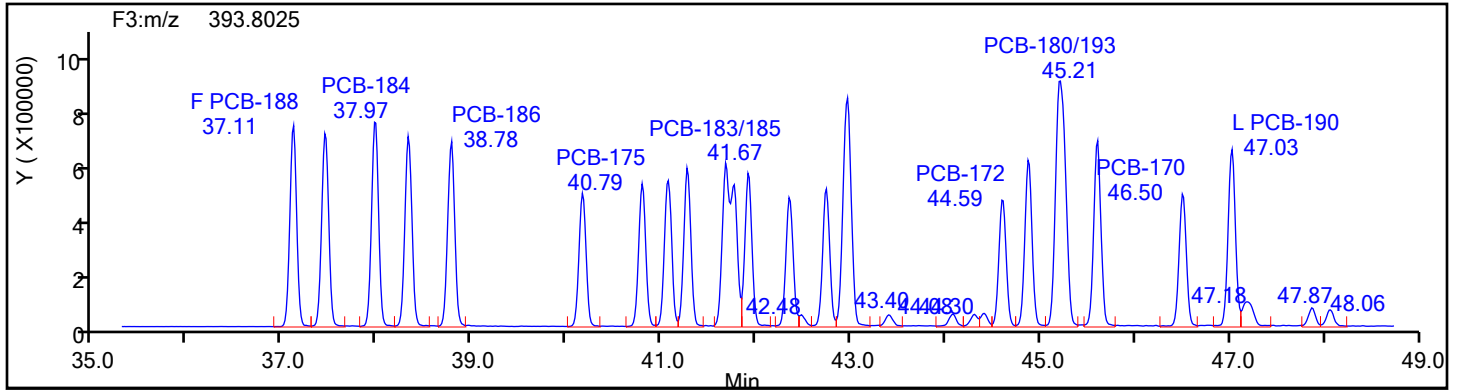
Worklist#: 87130

Sample Line#: 7

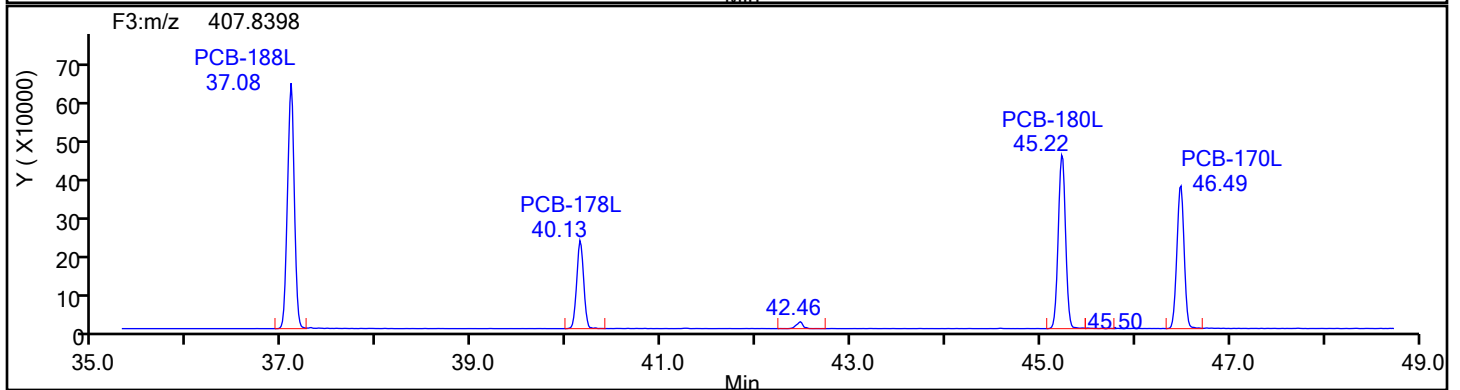
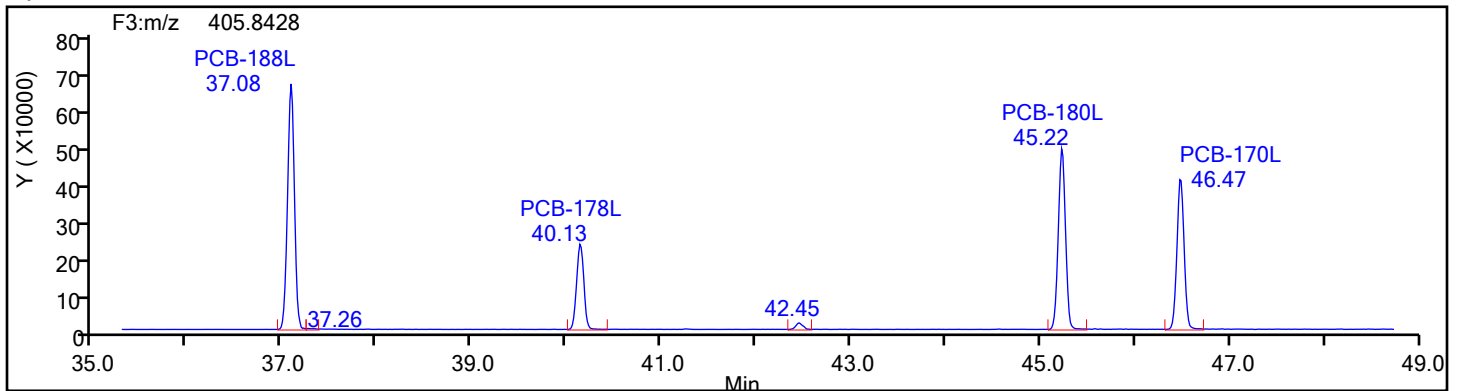
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

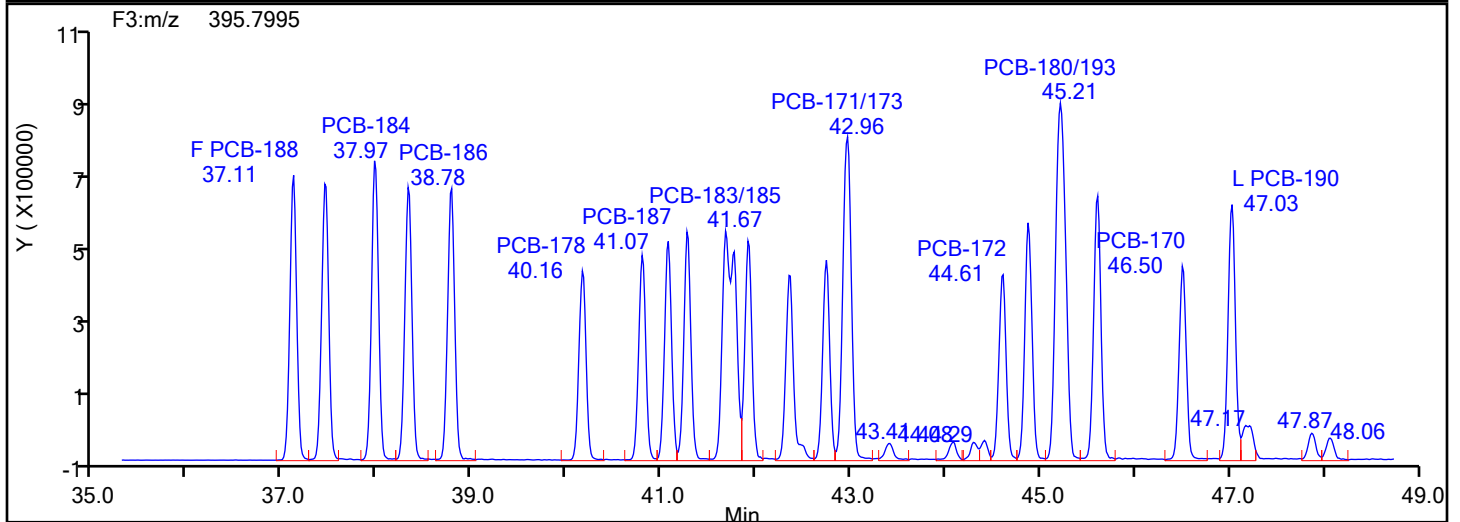
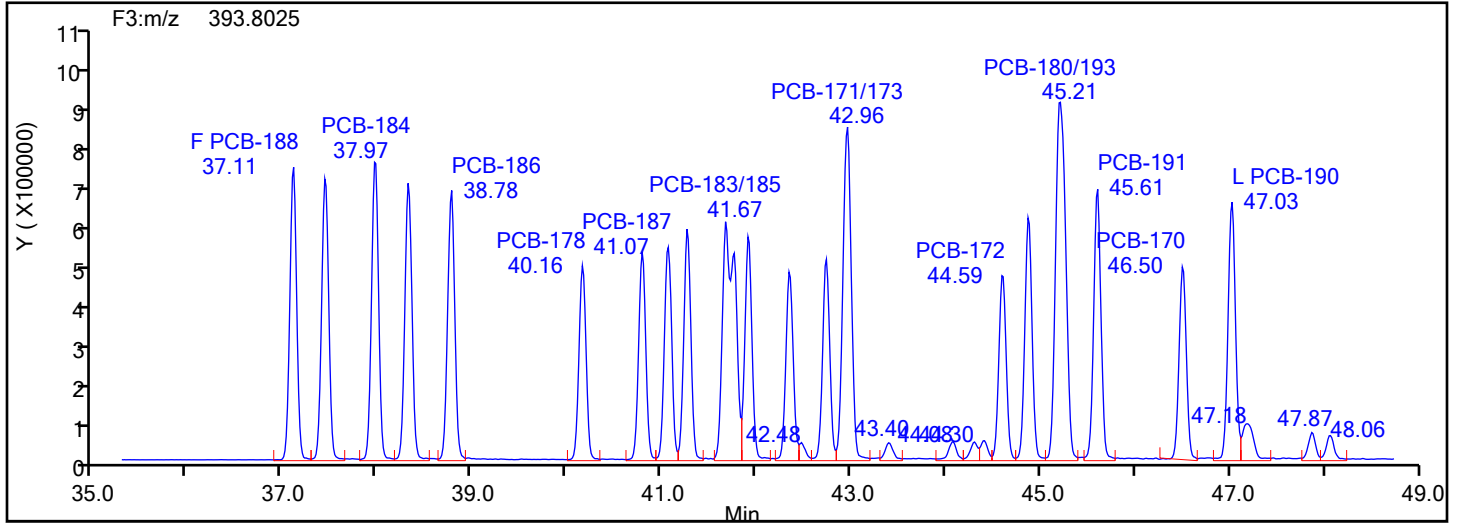
Worklist#: 87130

Sample Line#: 7

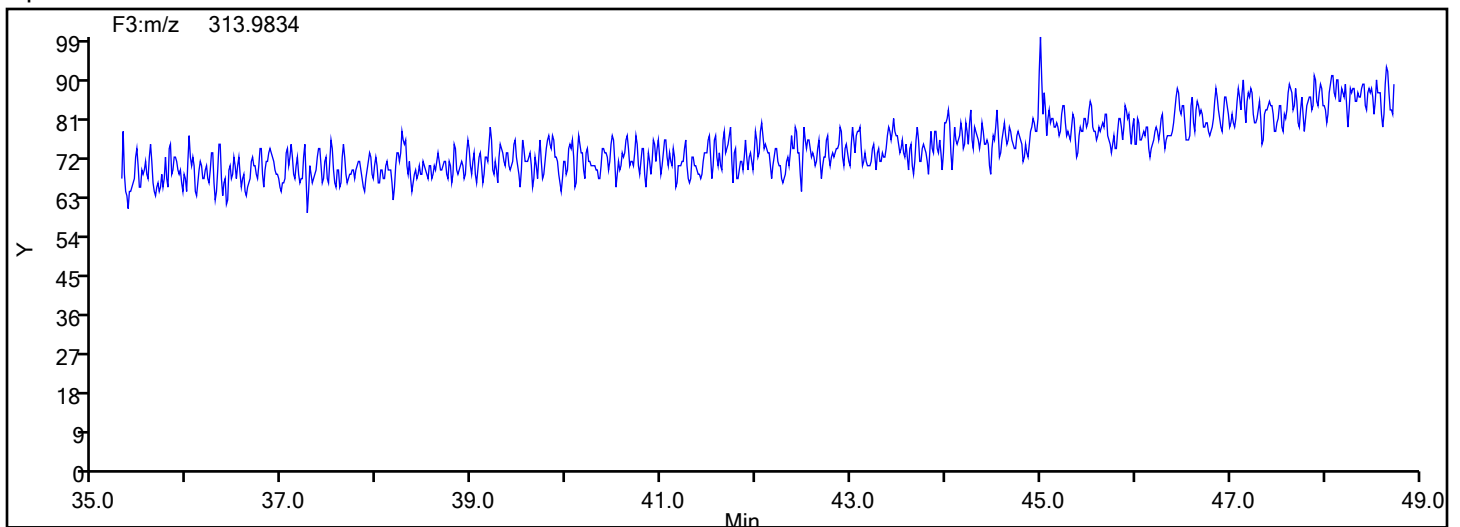
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

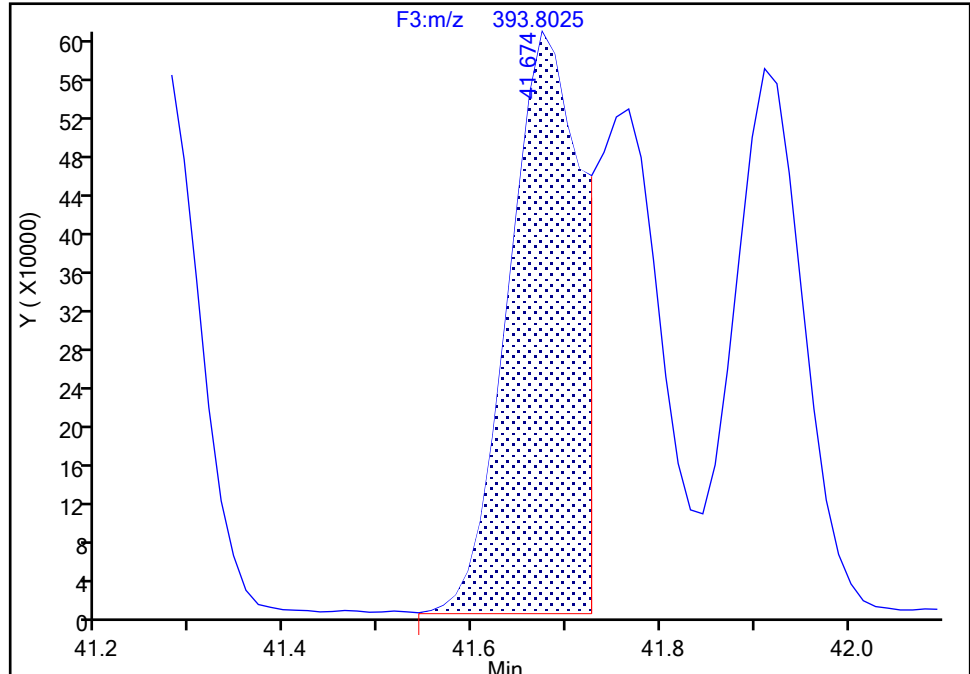
Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 1

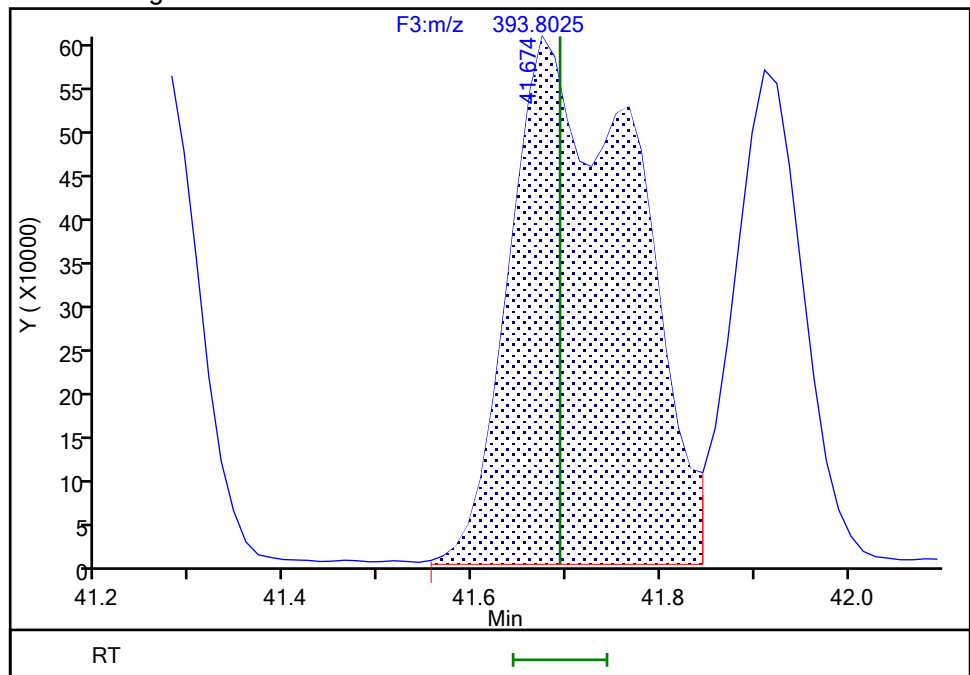
RT: 41.67  
Area: 3179859  
Amount: 117.0323  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.67  
Area: 5668555  
Amount: 209.7534  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:11:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Instrument ID: D2D

Lims ID: ICV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

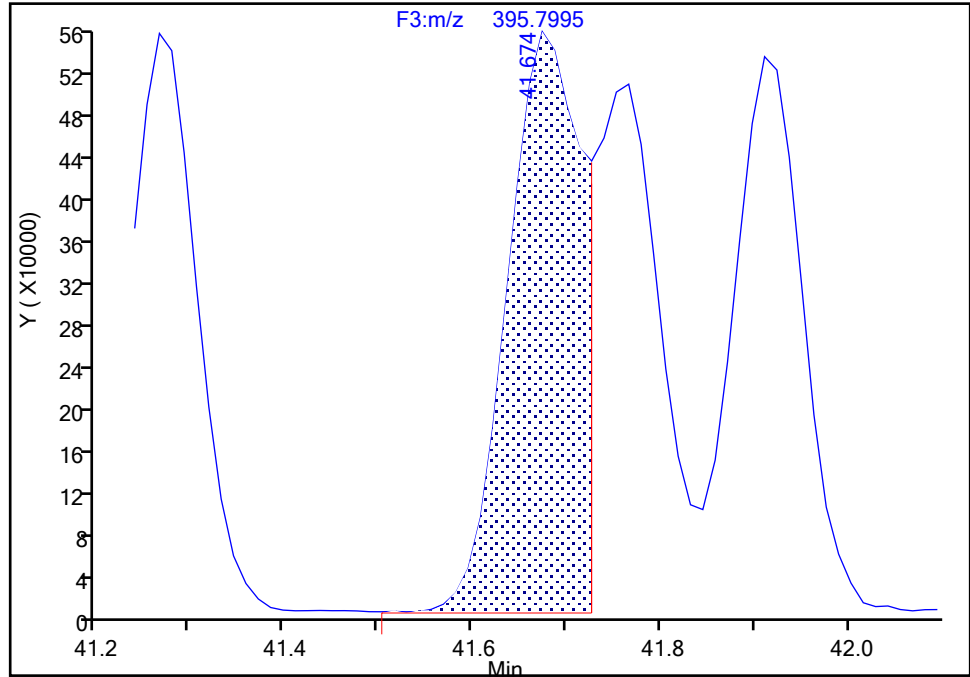
Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 2

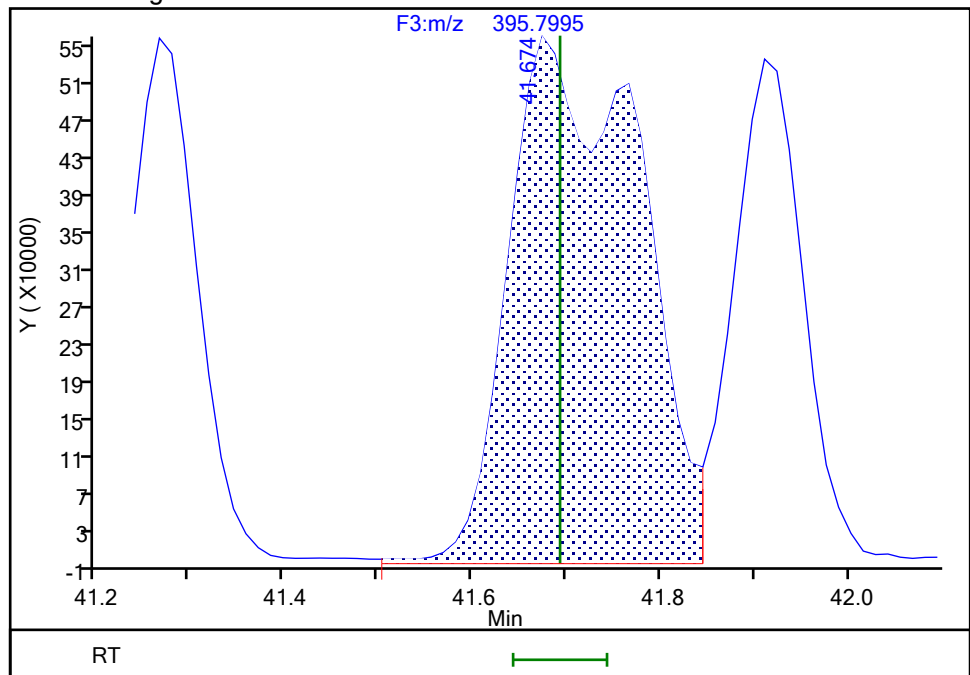
RT: 41.67  
Area: 3021759  
Amount: 117.0323  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.67  
Area: 5446408  
Amount: 209.7534  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 01-Jun-2024 11:11:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

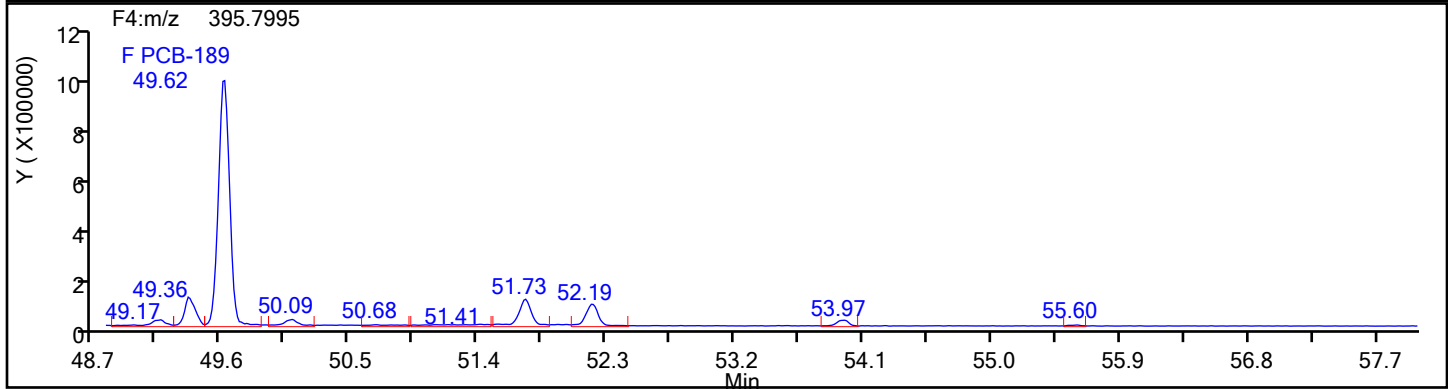
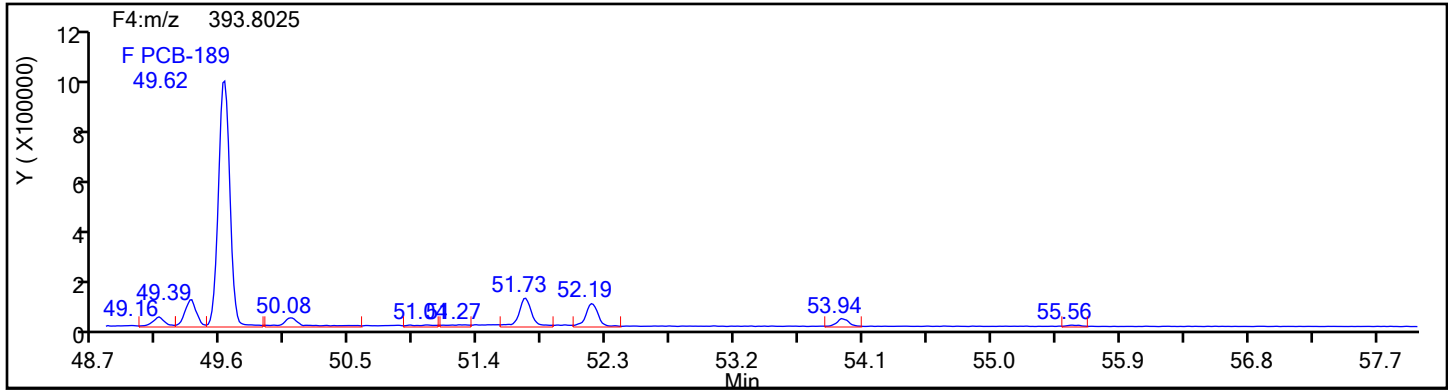
Worklist#: 87130

Sample Line#: 7

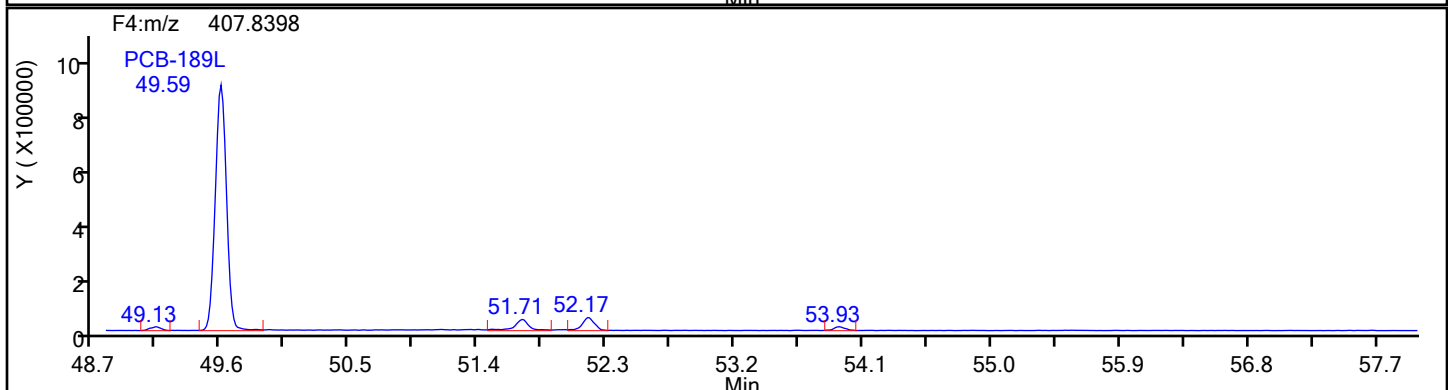
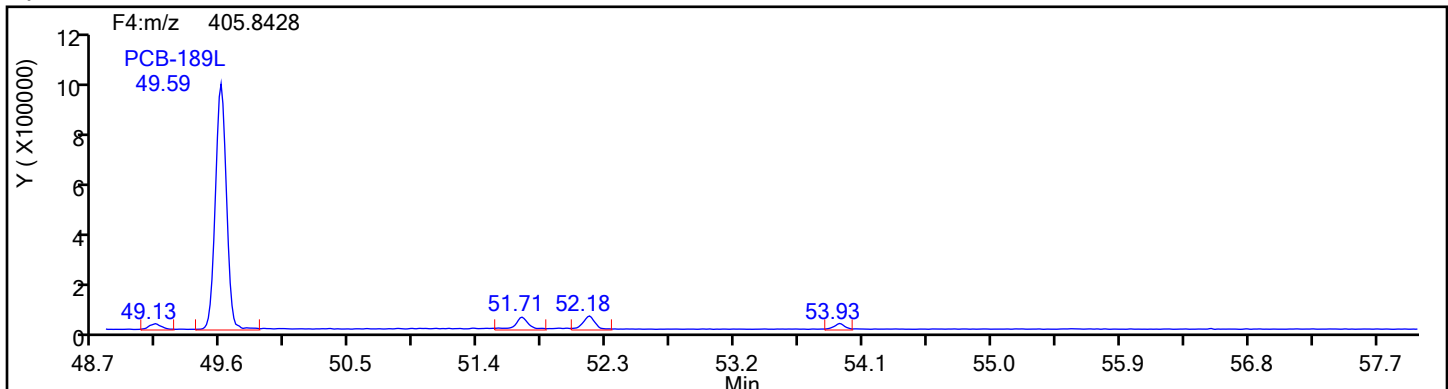
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

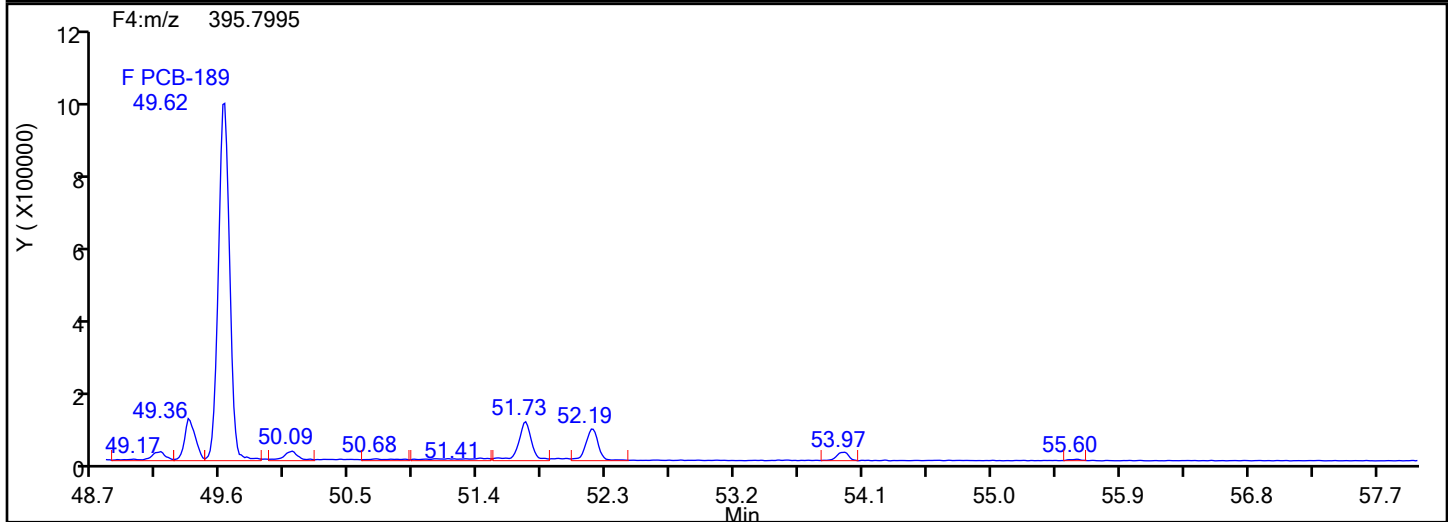
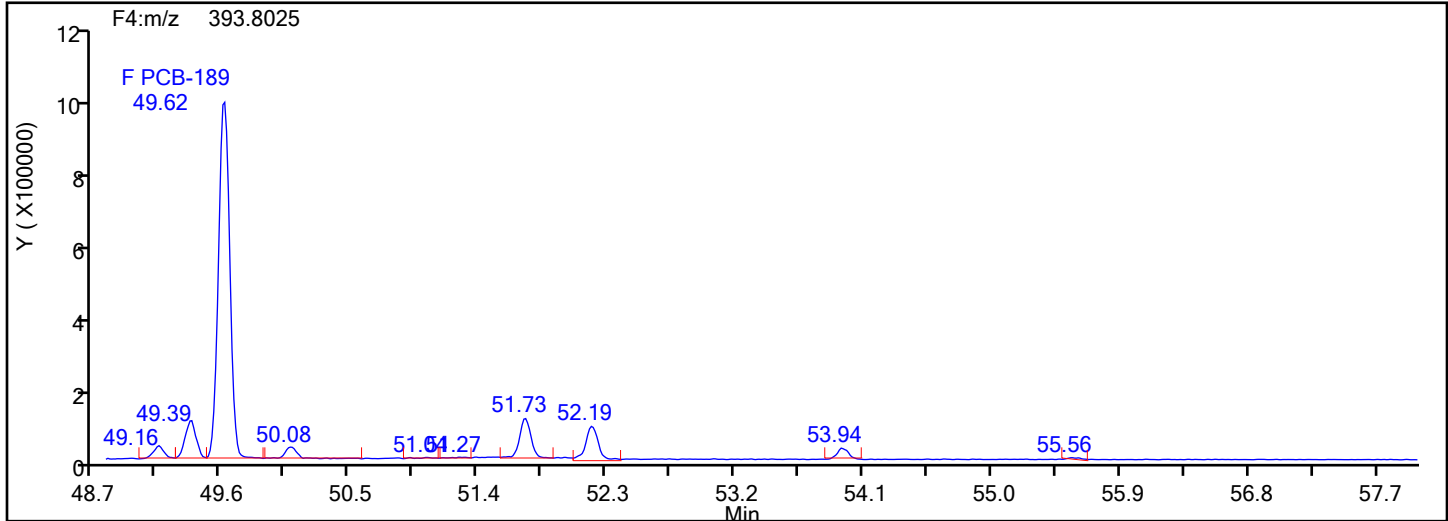
Worklist#: 87130

Sample Line#: 7

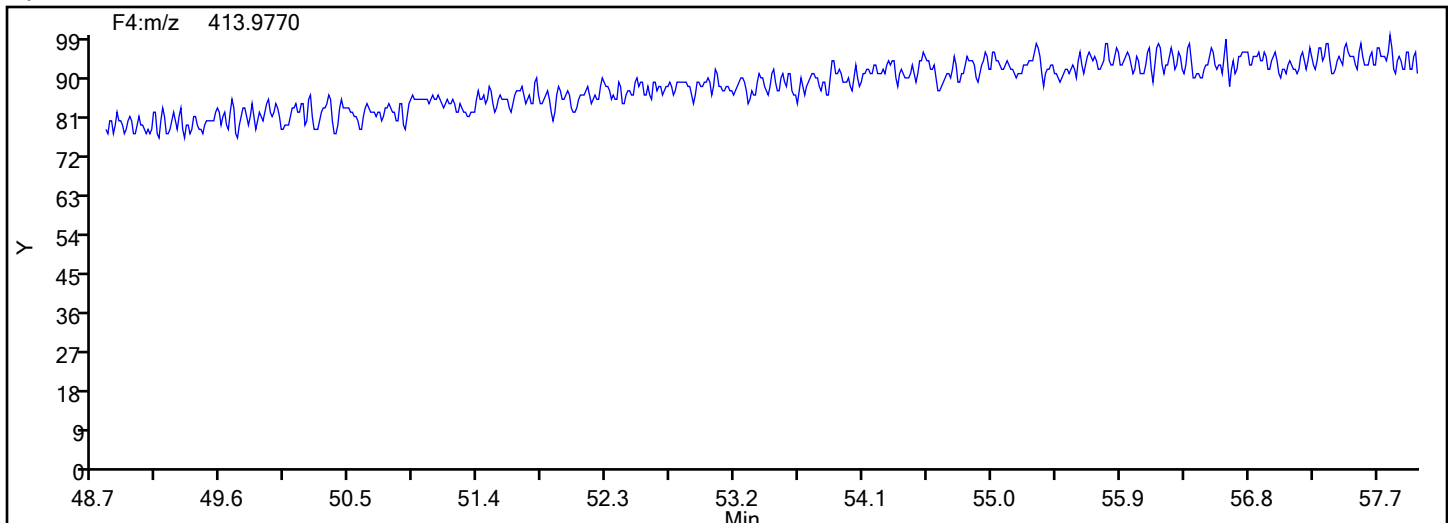
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

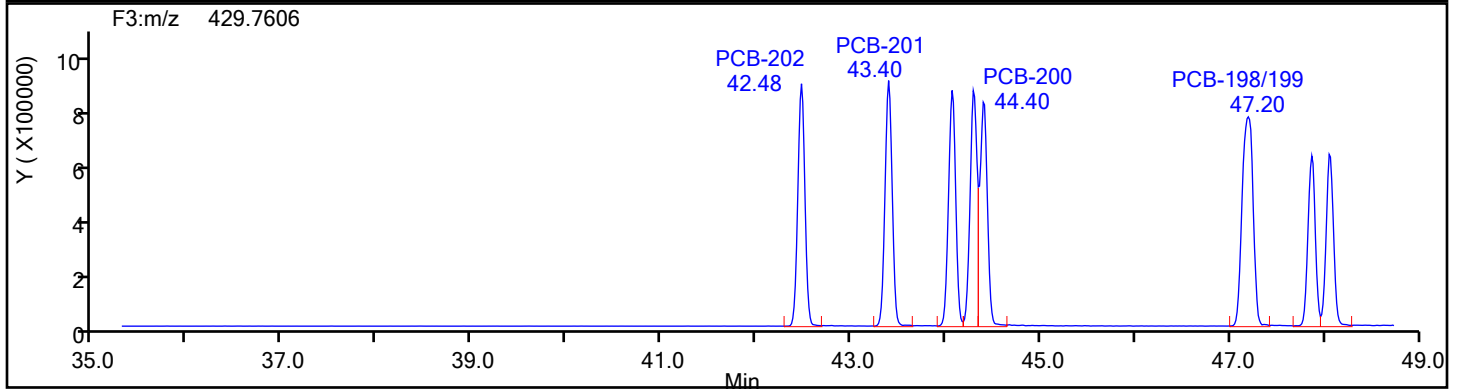
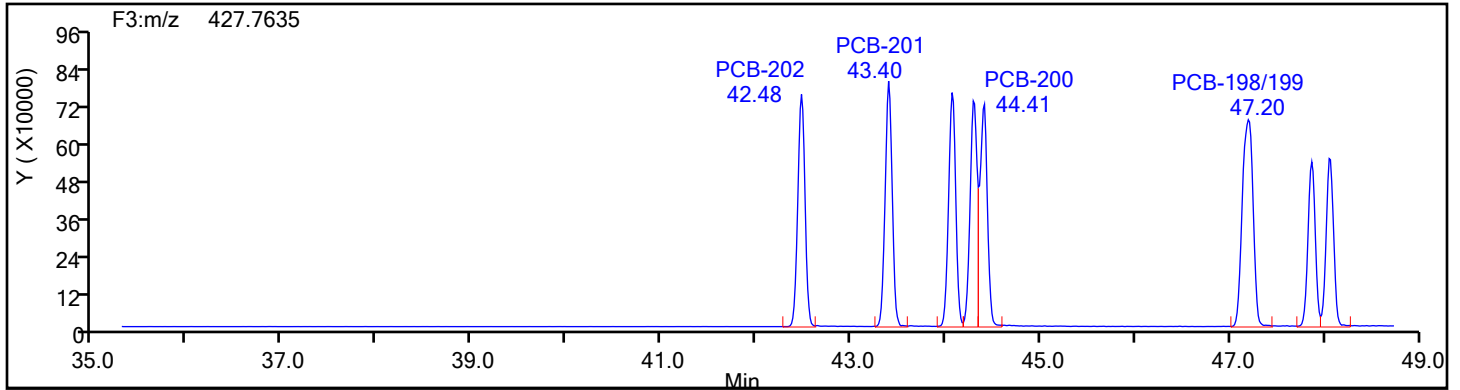
Worklist#: 87130

Sample Line#: 7

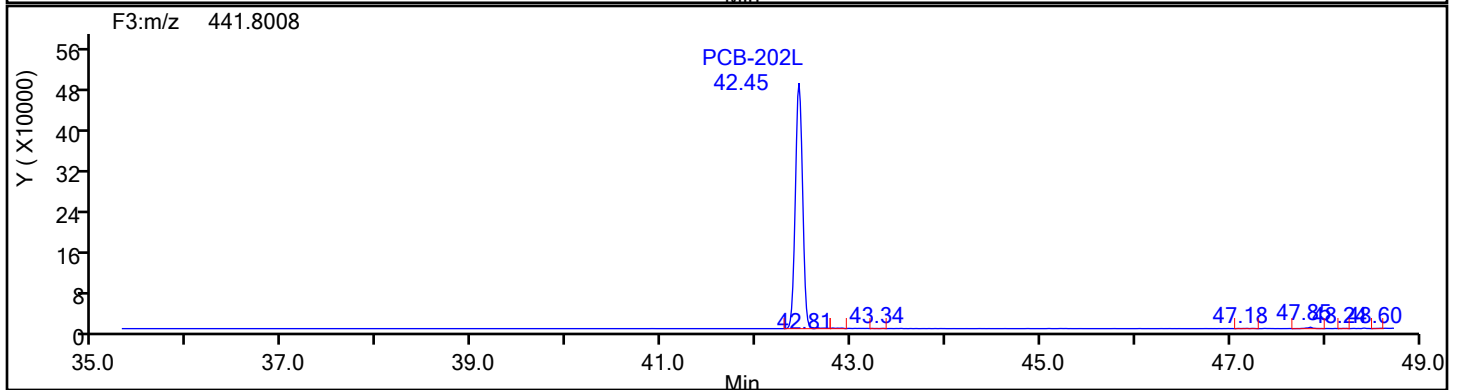
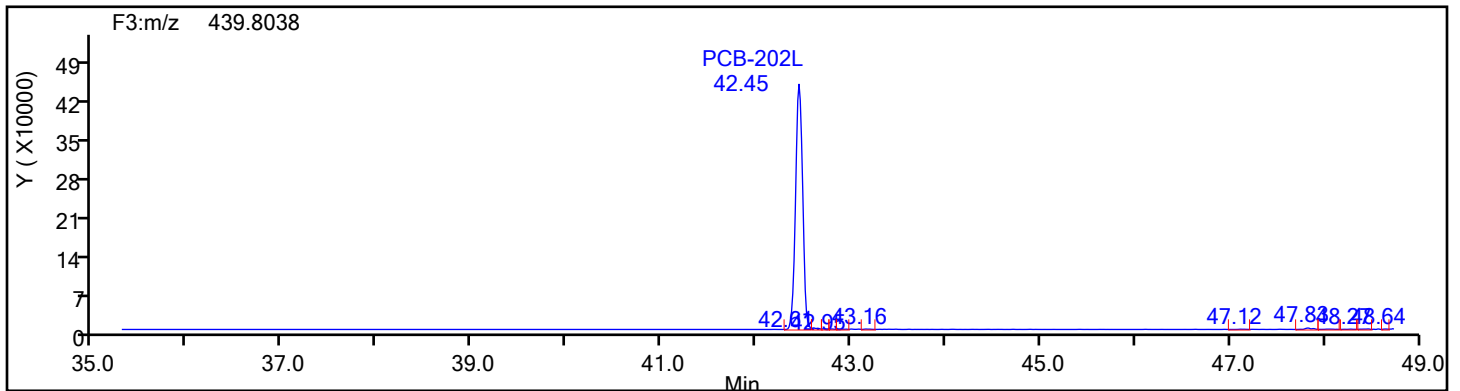
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

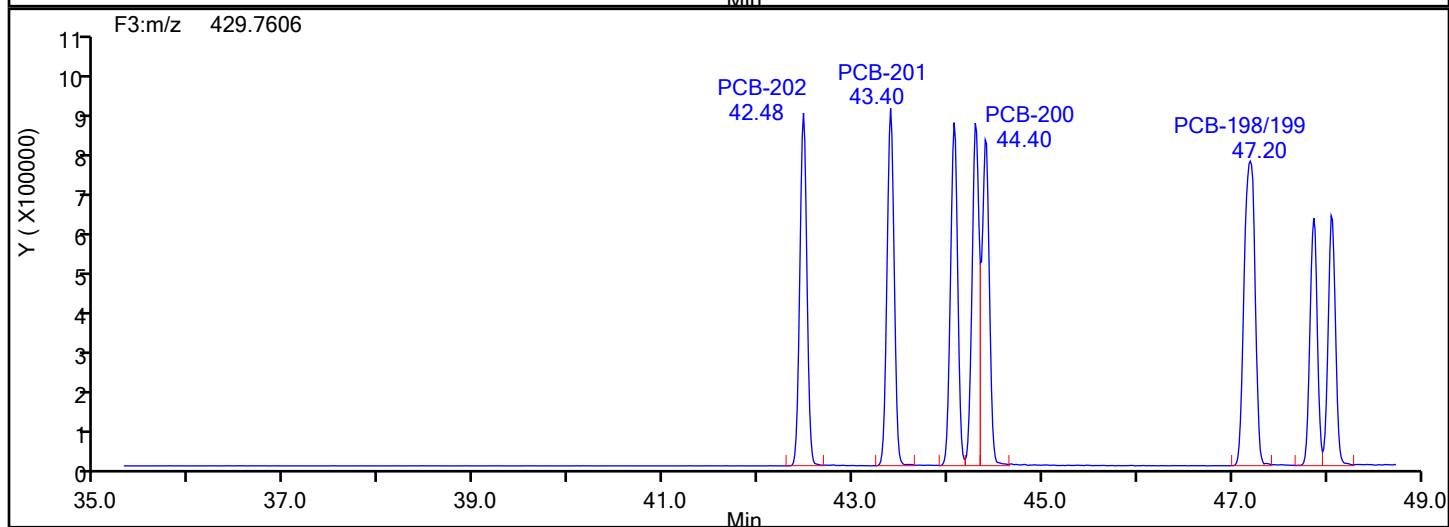
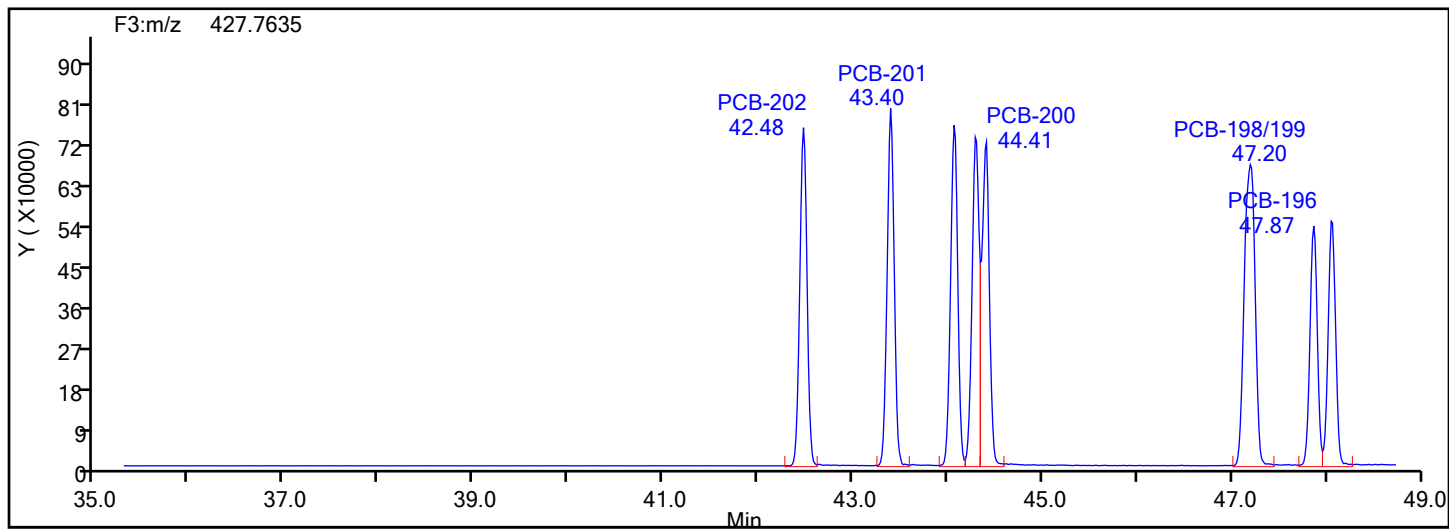
Worklist#: 87130

Sample Line#: 7

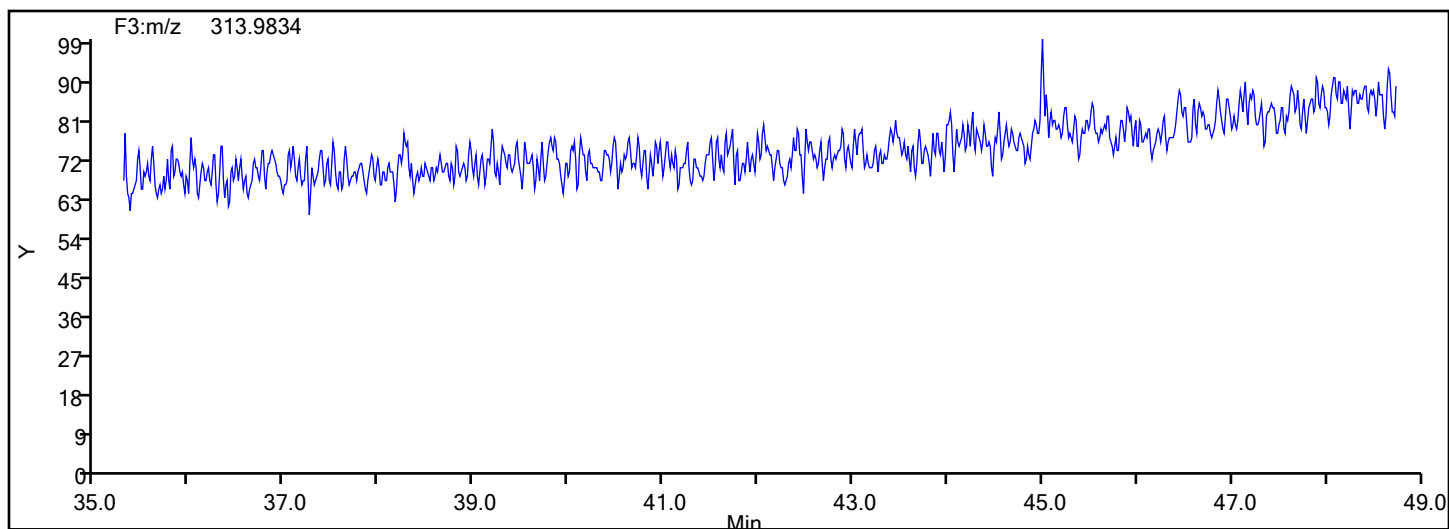
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



## OcPCB F3 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

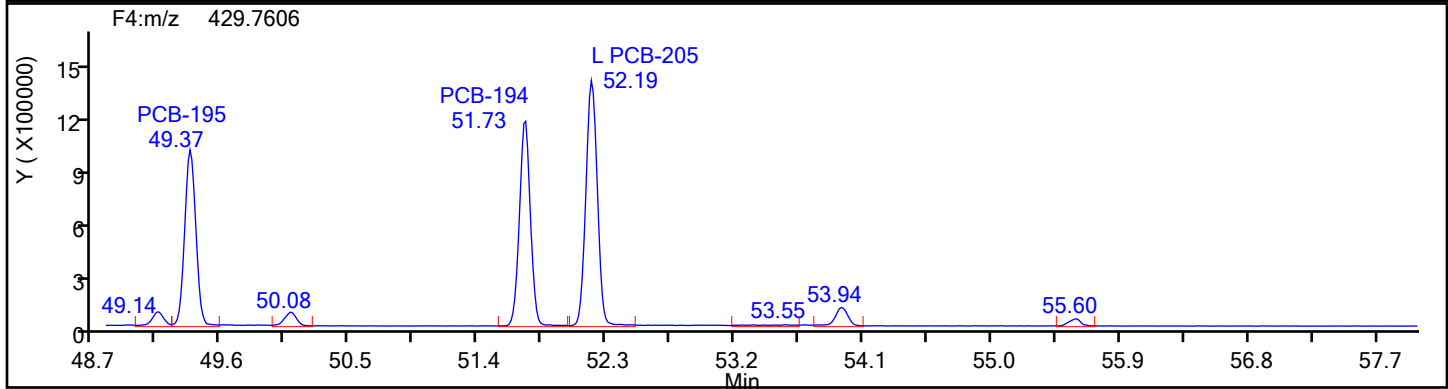
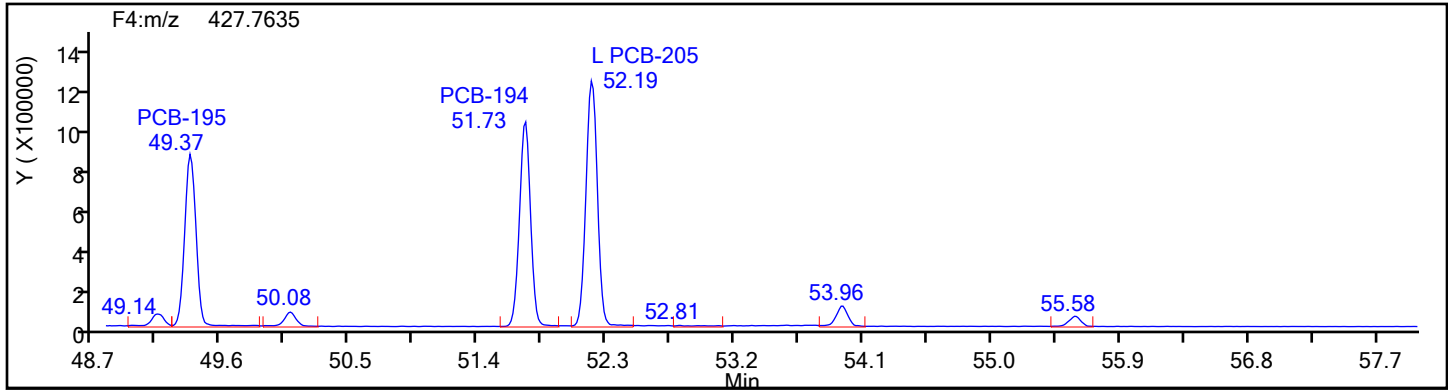
Worklist#: 87130

Sample Line#: 7

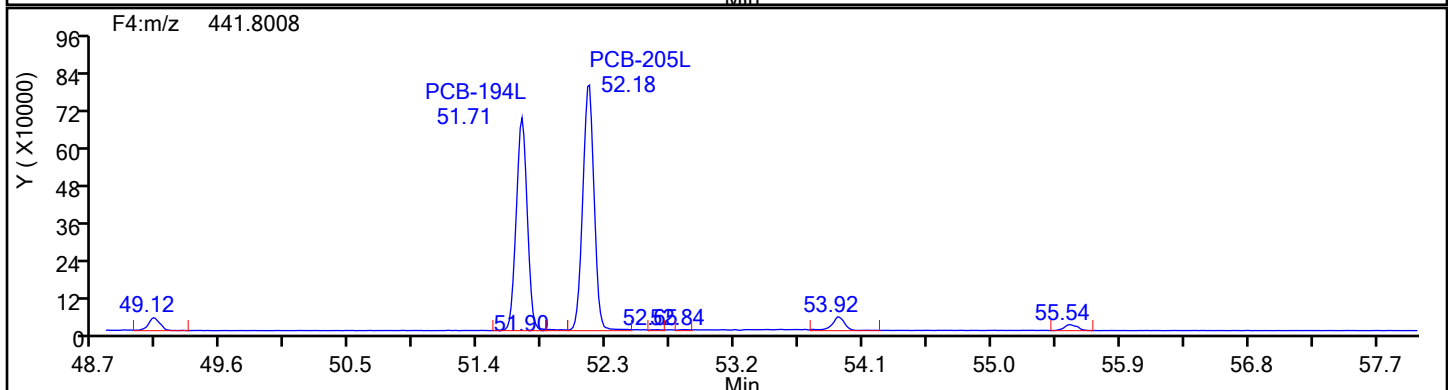
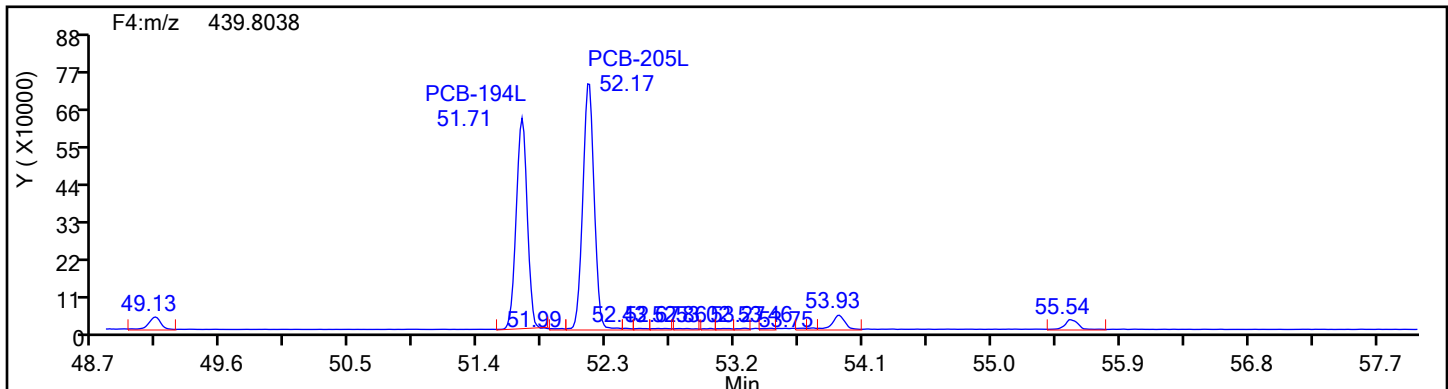
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

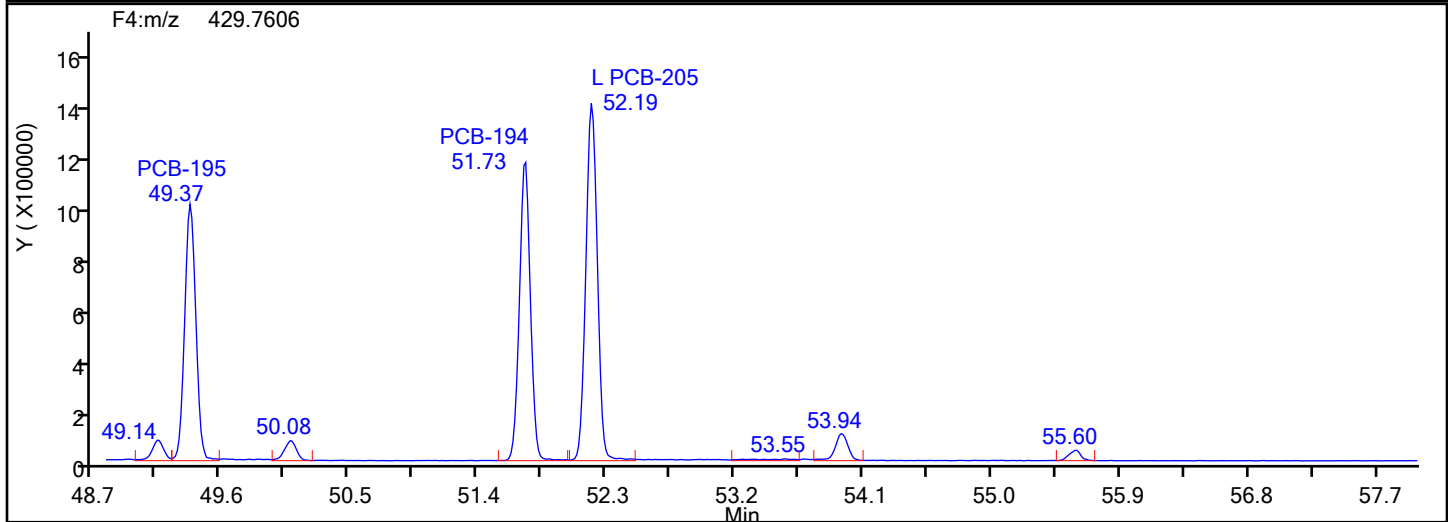
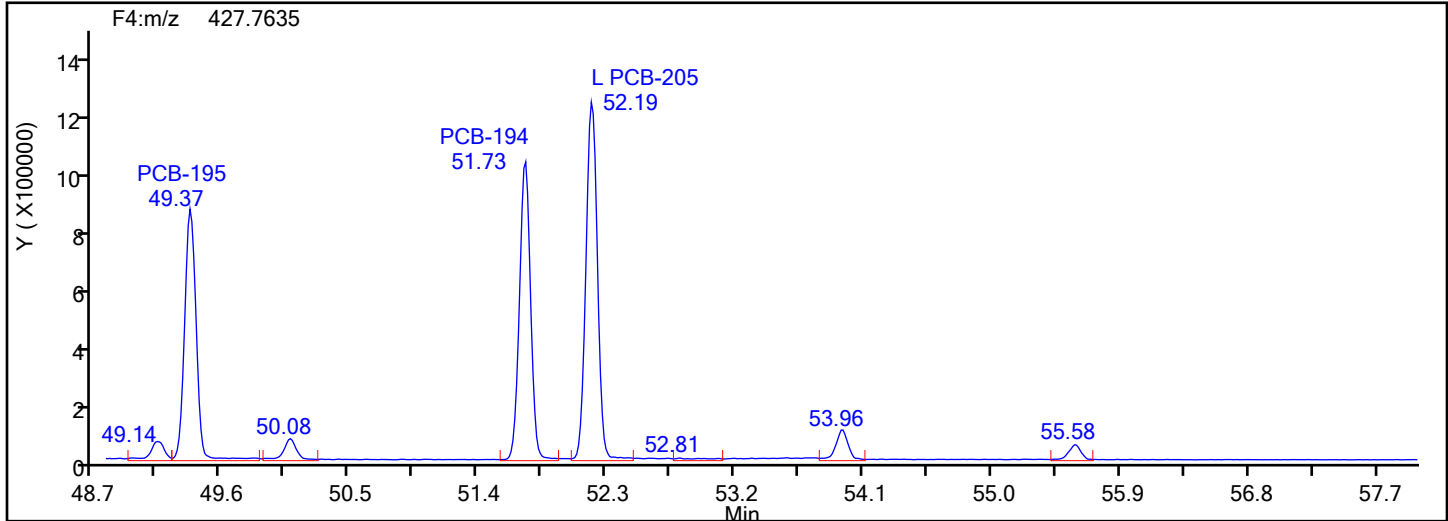
Worklist#: 87130

Sample Line#: 7

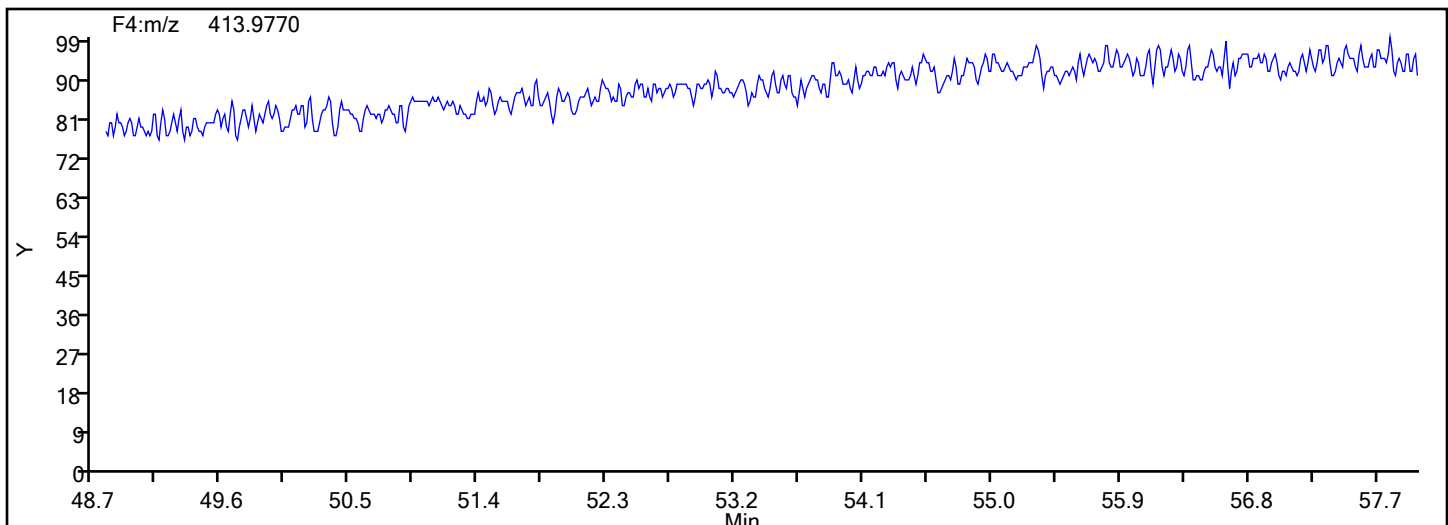
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



## OcPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

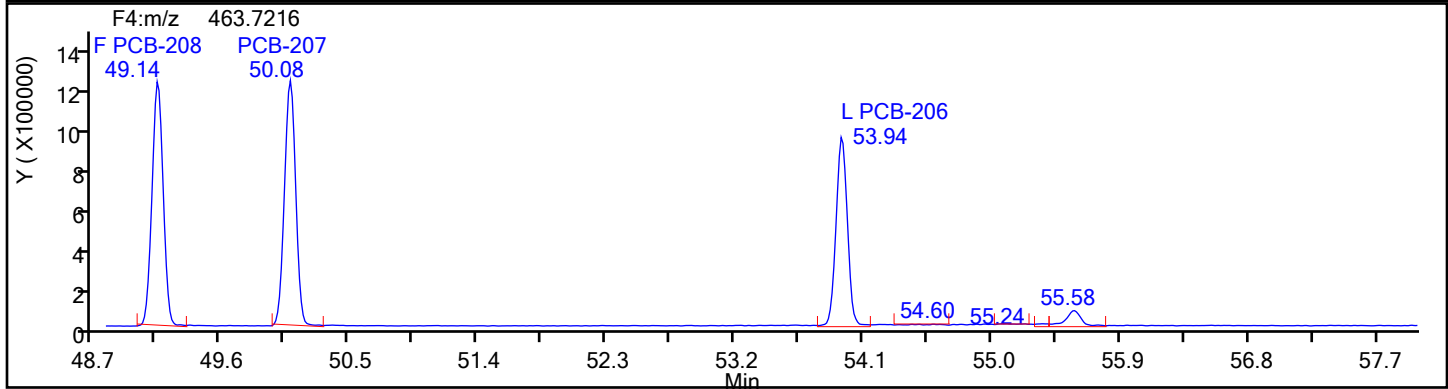
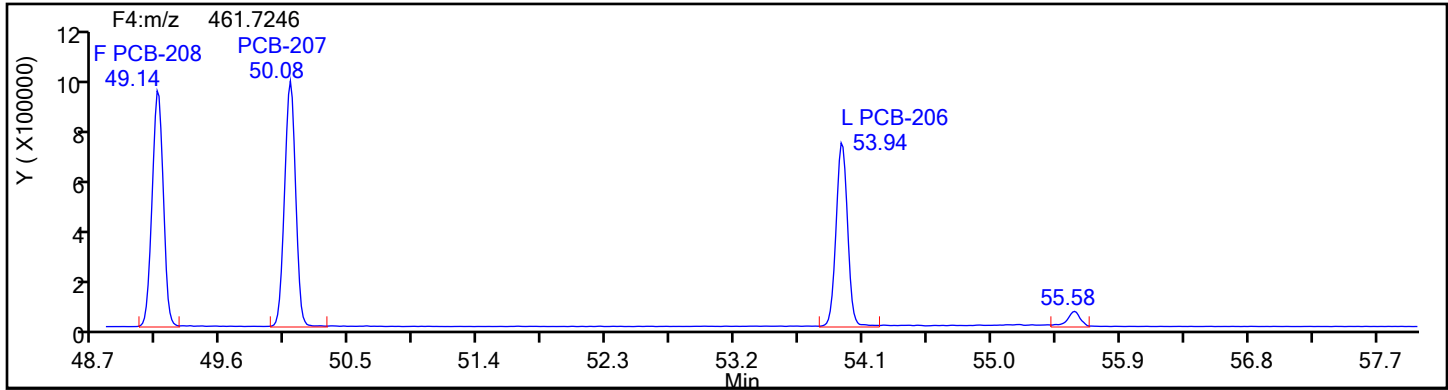
Worklist#: 87130

Sample Line#: 7

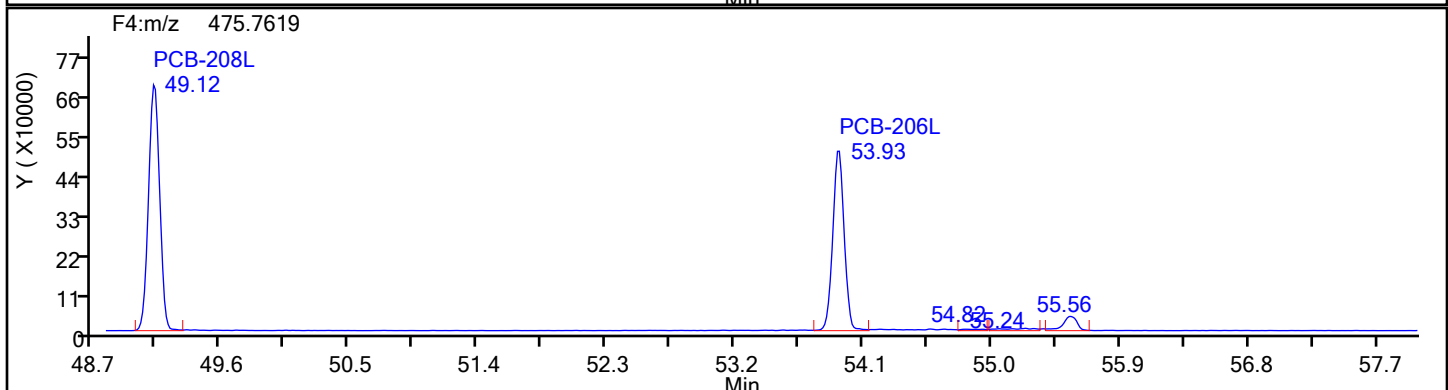
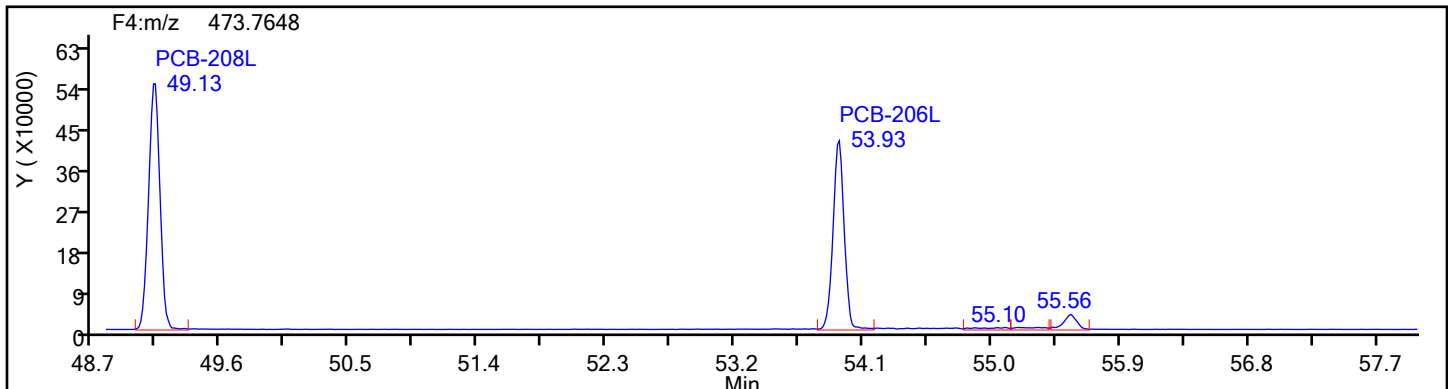
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

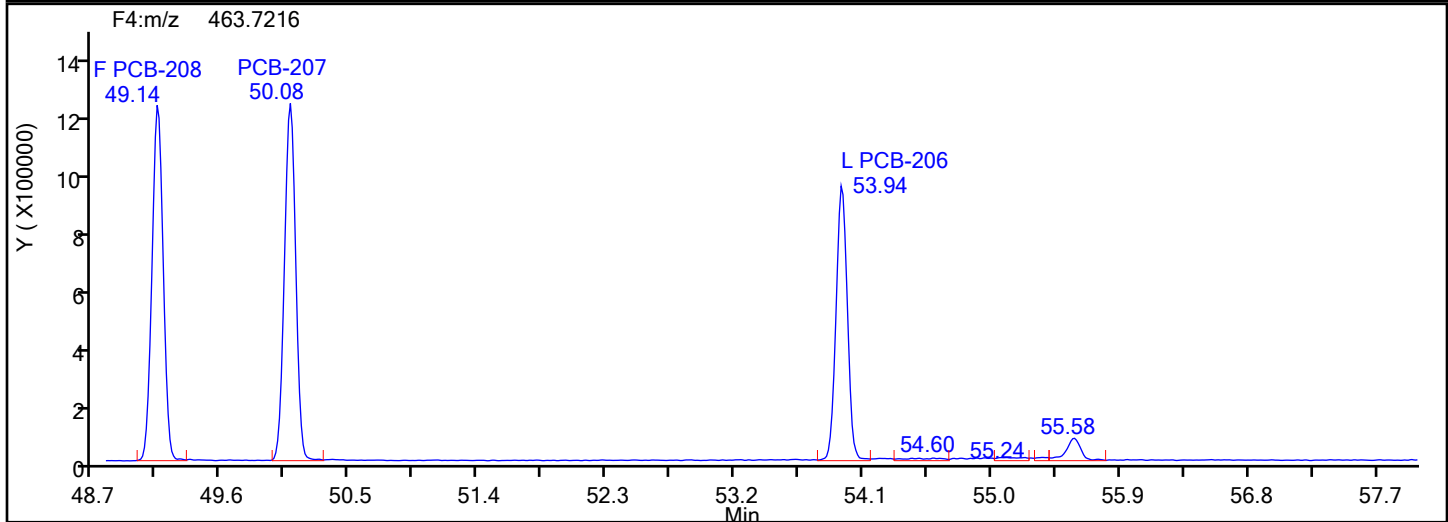
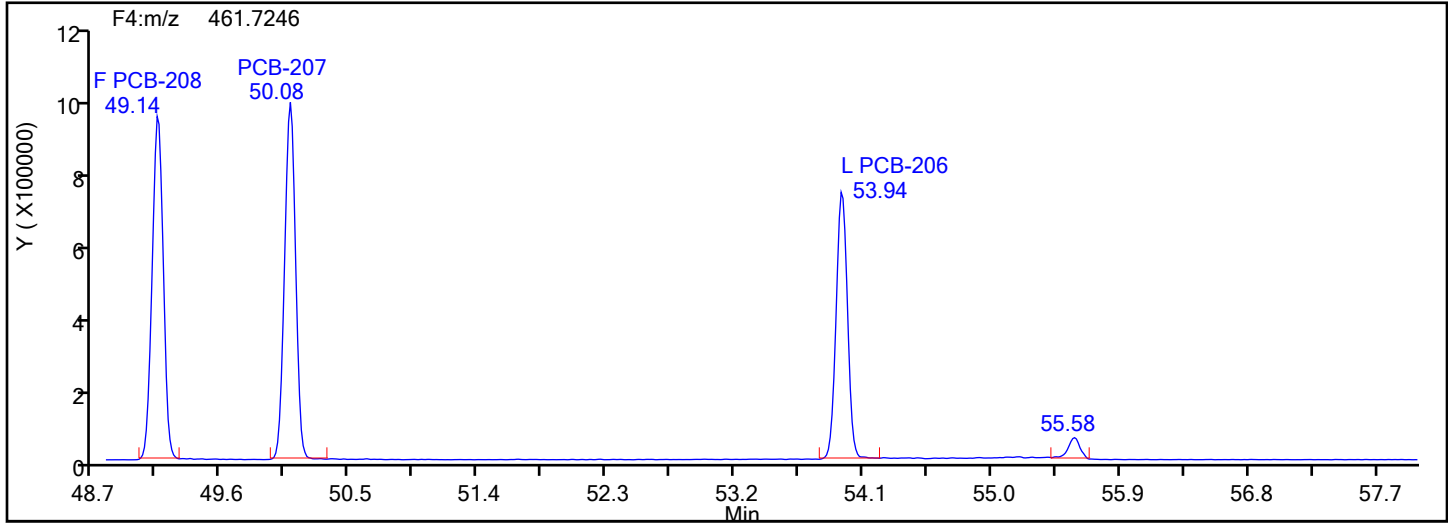
Worklist#: 87130

Sample Line#: 7

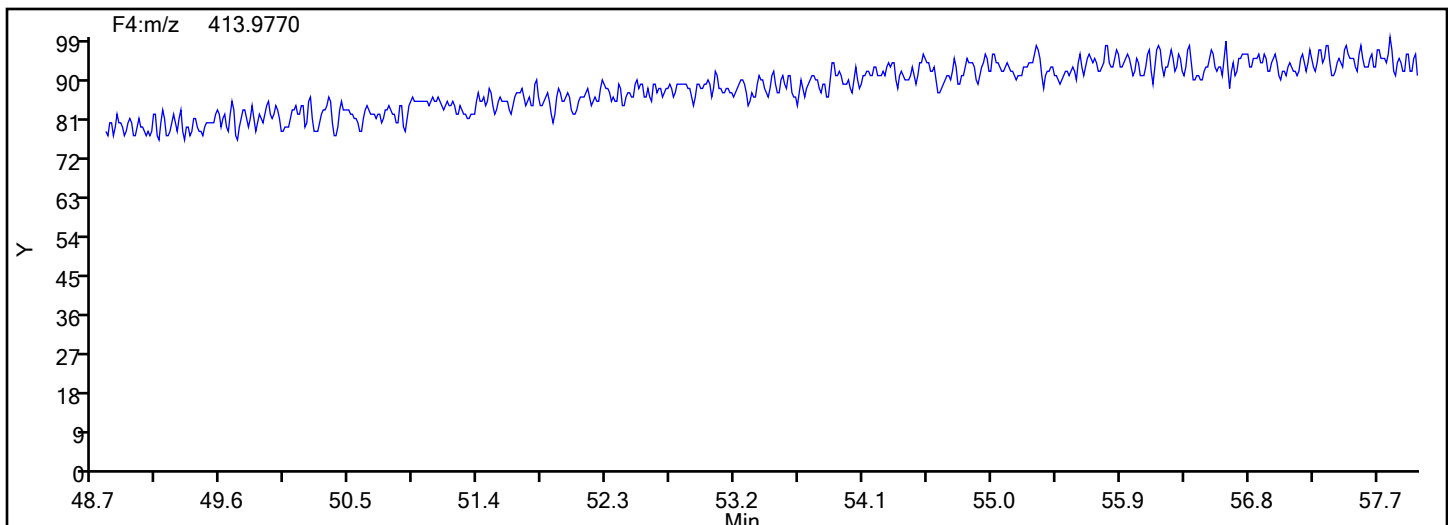
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



## NoPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d

Injection Date: 31-May-2024 22:58:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

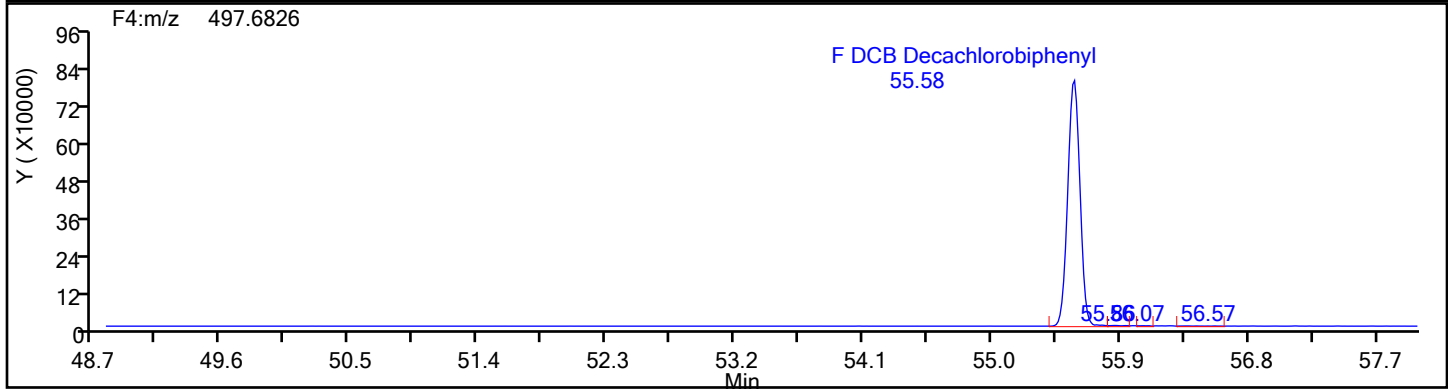
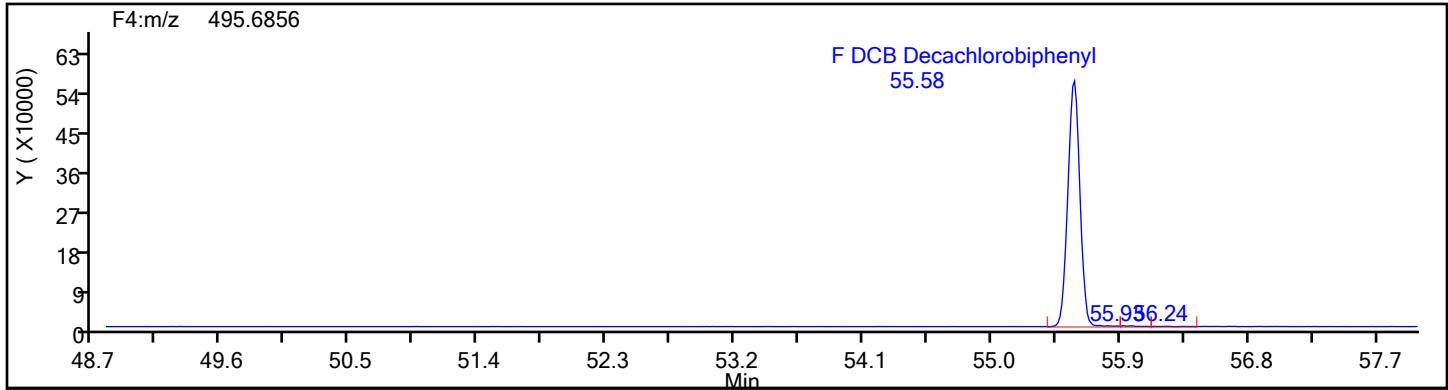
Worklist#: 87130

Sample Line#: 7

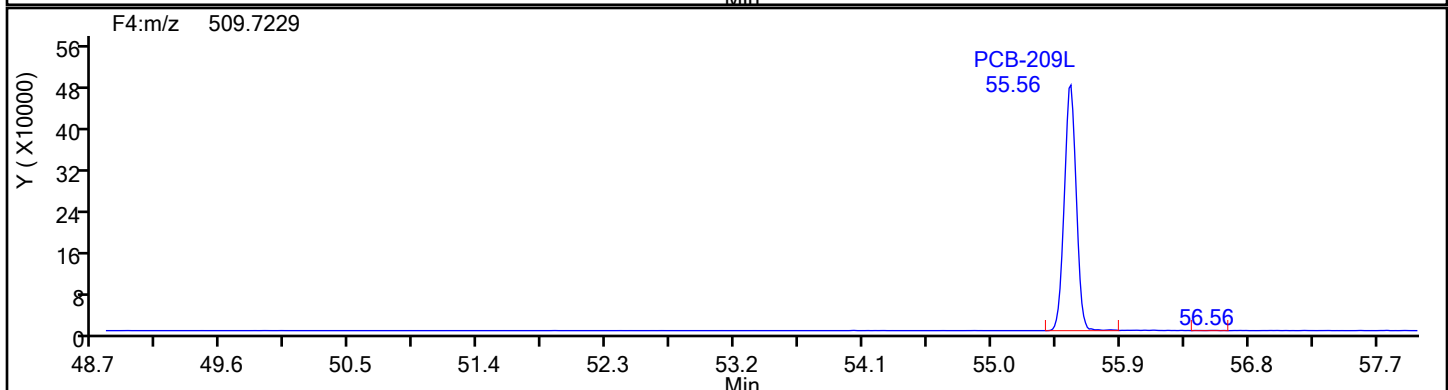
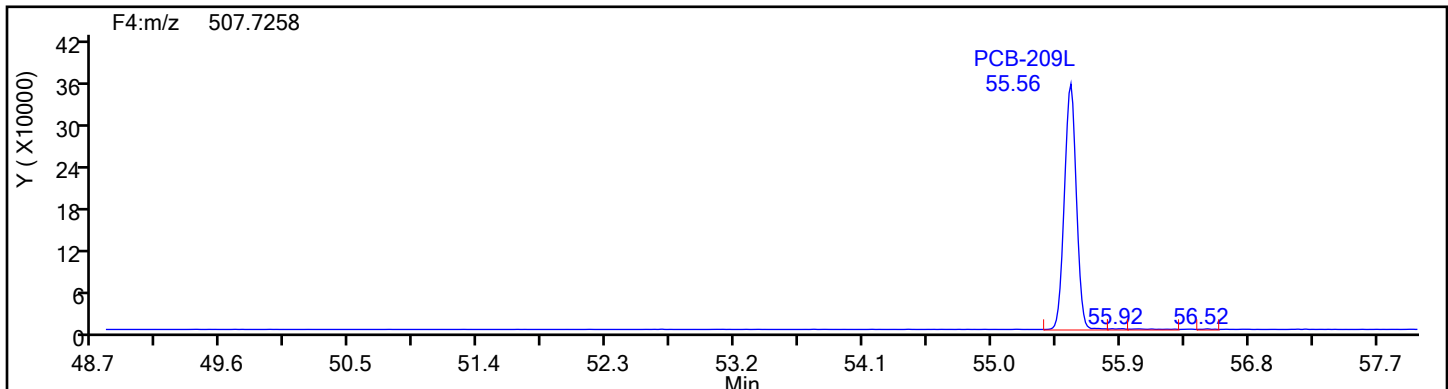
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4

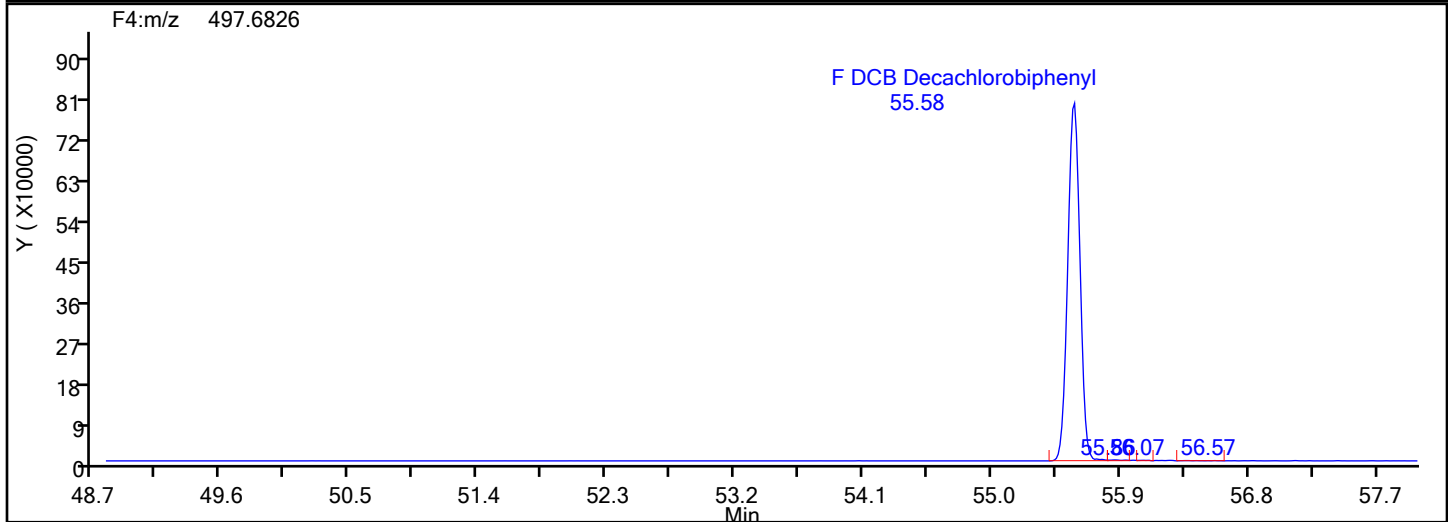
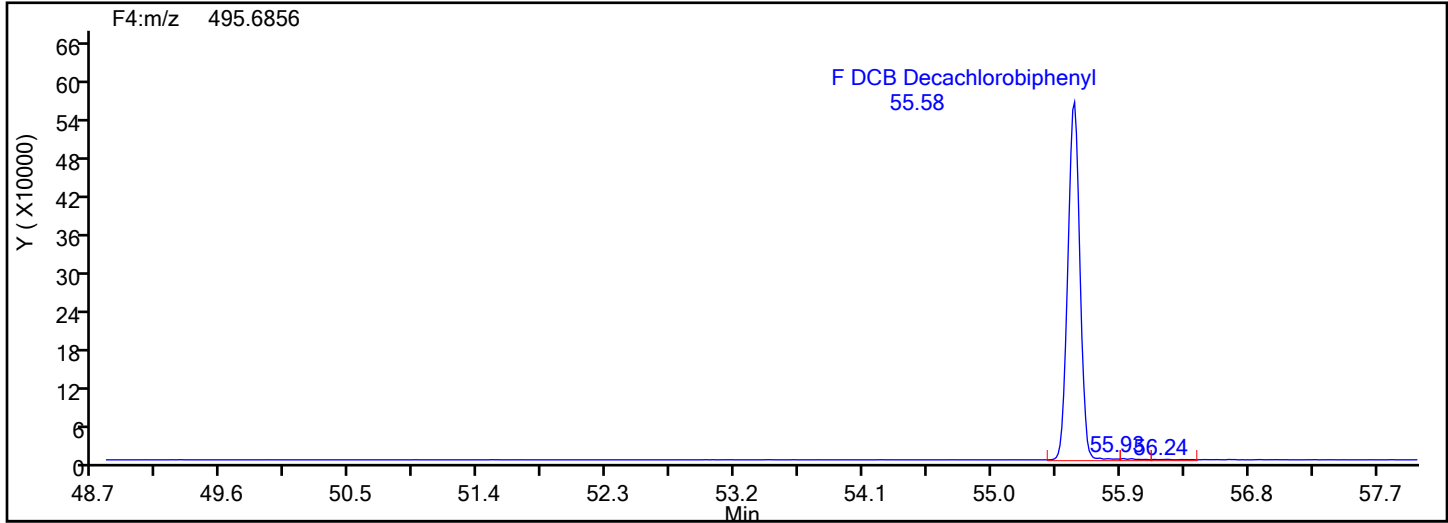


DePCB F4 Standards

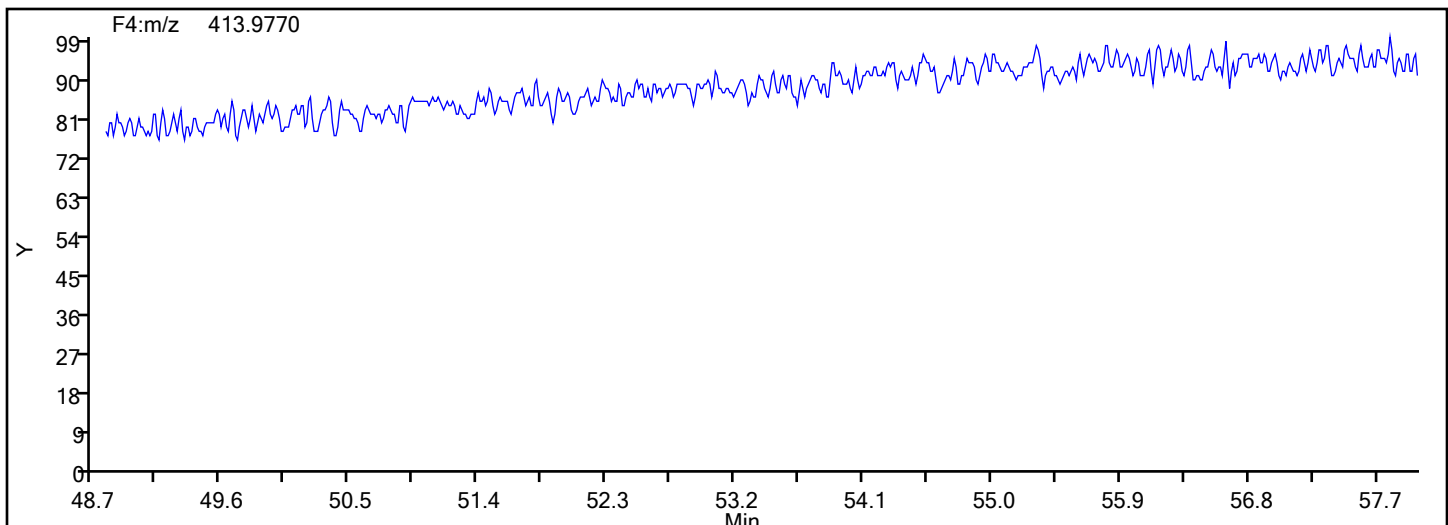


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531icv.d  
Injection Date: 31-May-2024 22:58:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 87130 Sample Line#: 7  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Lock Mass



FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88205/1 Calibration Date: 06/27/2024 22:00  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240627c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1	AveID	1.219	1.306		53.6	50.0	7.1	25.0
PCB-2	AveID	1.181	1.259		53.3	50.0	6.6	25.0
PCB-3	AveID	1.221	1.297		53.1	50.0	6.3	25.0
PCB-4	AveID	1.282	1.373		53.6	50.0	7.1	25.0
PCB-10	AveID	1.315	1.478		56.2	50.0	12.4	25.0
PCB-9	AveID	1.422	1.590		55.9	50.0	11.8	25.0
PCB-7	AveID	1.413	1.541		54.5	50.0	9.0	25.0
PCB-6	AveID	1.542	1.644		53.3	50.0	6.6	25.0
PCB-5	AveID	1.339	1.452		54.2	50.0	8.4	25.0
PCB-8	AveID	1.589	1.748		55.0	50.0	10.0	25.0
PCB-19	AveID	1.281	1.342		52.4	50.0	4.8	25.0
PCB-14	AveID	1.402	1.495		53.3	50.0	6.6	25.0
PCB-18	AveID	1.765	1.854		105	100	5.0	25.0
PCB-18/30	AveID	1.765	1.854		105	100	5.0	25.0
PCB-30	AveID	1.765	1.854		105	100	5.0	25.0
PCB-11	AveID	1.295	1.391		53.7	50.0	7.4	25.0
PCB-17	AveID	1.243	1.284		51.6	50.0	3.3	25.0
PCB-12	AveID	1.336	1.439		108	100	7.8	25.0
PCB-12/13	AveID	1.336	1.439		108	100	7.8	25.0
PCB-13	AveID	1.336	1.439		108	100	7.8	25.0
PCB-27	AveID	1.833	1.942		53.0	50.0	5.9	25.0
PCB-24	AveID	1.678	1.814		54.1	50.0	8.1	25.0
PCB-16	AveID	1.129	1.258		55.7	50.0	11.5	25.0
PCB-15	AveID	1.290	1.409		54.6	50.0	9.2	25.0
PCB-54	AveID	1.273	1.246		49.0	50.0	-2.1	25.0
PCB-32	AveID	1.832	2.017		55.0	50.0	10.0	25.0
PCB-34	AveID	1.128	1.139		50.5	50.0	1.0	25.0
PCB-23	AveID	1.081	1.110		51.3	50.0	2.7	25.0
PCB-26	AveID	1.125	1.138		101	100	1.1	25.0
PCB-26/29	AveID	1.125	1.138		101	100	1.1	25.0
PCB-29	AveID	1.125	1.138		101	100	1.1	25.0
PCB-25	AveID	1.273	1.323		52.0	50.0	3.9	25.0
PCB-50	AveID	0.8578	0.8512		99.2	100	-0.8	25.0
PCB-50/53	AveID	0.8578	0.8512		99.2	100	-0.8	25.0
PCB-53	AveID	0.8578	0.8512		99.2	100	-0.8	25.0
PCB-31	AveID	1.153	1.184		51.4	50.0	2.7	25.0
PCB-20	AveID	1.172	1.175		100	100	0.3	25.0
PCB-20/28	AveID	1.172	1.175		100	100	0.3	25.0
PCB-28	AveID	1.172	1.175		100	100	0.3	25.0
PCB-45	AveID	0.8264	0.8430		102	100	2.0	25.0
PCB-45/51	AveID	0.8264	0.8430		102	100	2.0	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88205/1 Calibration Date: 06/27/2024 22:00  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240627c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-51	AveID	0.8264	0.8430		102	100	2.0	25.0
PCB-21	AveID	1.075	1.115		104	100	3.8	25.0
PCB-21/33	AveID	1.075	1.115		104	100	3.8	25.0
PCB-33	AveID	1.075	1.115		104	100	3.8	25.0
PCB-46	AveID	0.7101	0.7370		51.9	50.0	3.8	25.0
PCB-22	AveID	1.193	1.229		51.5	50.0	3.0	25.0
PCB-52	AveID	0.9194	0.9849		53.6	50.0	7.1	25.0
PCB-43	AveID	1.033	1.064		103	100	2.9	25.0
PCB-43/73	AveID	1.033	1.064		103	100	2.9	25.0
PCB-73	AveID	1.033	1.064		103	100	2.9	25.0
PCB-36	AveID	1.107	1.083		48.9	50.0	-2.2	25.0
PCB-49	AveID	1.069	1.080		101	100	1.1	25.0
PCB-49/69	AveID	1.069	1.080		101	100	1.1	25.0
PCB-69	AveID	1.069	1.080		101	100	1.1	25.0
PCB-39	AveID	1.158	1.159		50.0	50.0	0.0	25.0
PCB-48	AveID	0.8399	0.8587		51.1	50.0	2.2	25.0
PCB-104	AveID	1.009	1.073		53.2	50.0	6.4	25.0
PCB-44	AveID	0.9731	0.9617		148	150	-1.2	25.0
PCB-44/47/65	AveID	0.9731	0.9617		148	150	-1.2	25.0
PCB-47	AveID	0.9731	0.9617		148	150	-1.2	25.0
PCB-65	AveID	0.9731	0.9617		148	150	-1.2	25.0
PCB-38	AveID	1.084	1.076		49.6	50.0	-0.8	25.0
PCB-59	AveID	1.185	1.153		146	150	-2.7	25.0
PCB-59/62/75	AveID	1.185	1.153		146	150	-2.7	25.0
PCB-62	AveID	1.185	1.153		146	150	-2.7	25.0
PCB-75	AveID	1.185	1.153		146	150	-2.7	25.0
PCB-96	AveID	1.094	1.115		51.0	50.0	1.9	25.0
PCB-42	AveID	0.8097	0.8791		54.3	50.0	8.6	25.0
PCB-35	AveID	1.130	1.142		50.5	50.0	1.1	25.0
PCB-40	AveID	0.8863	0.8911		151	150	0.5	25.0
PCB-40/41/71	AveID	0.8863	0.8911		151	150	0.5	25.0
PCB-41	AveID	0.8863	0.8911		151	150	0.5	25.0
PCB-71	AveID	0.8863	0.8911		151	150	0.5	25.0
PCB-37	AveID	1.144	1.133		49.6	50.0	-0.9	25.0
PCB-64	AveID	1.178	1.205		51.1	50.0	2.3	25.0
PCB-72	AveID	1.094	1.135		51.9	50.0	3.8	25.0
PCB-103	AveID	0.8741	0.9369		53.6	50.0	7.2	25.0
PCB-68	AveID	1.253	1.303		52.0	50.0	4.0	25.0
PCB-94	AveID	0.7640	0.7891		51.6	50.0	3.3	25.0
PCB-57	AveID	1.082	1.136		52.5	50.0	5.0	25.0
PCB-95	AveID	0.8033	0.8490		52.9	50.0	5.7	25.0



FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88205/1 Calibration Date: 06/27/2024 22:00  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240627c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-58	AveID	1.325	1.442		54.4	50.0	8.8	25.0
PCB-100	AveID	0.8429	0.8847		105	100	5.0	25.0
PCB-93	AveID	0.8429	0.8847		105	100	5.0	25.0
PCB-93/100	AveID	0.8429	0.8847		105	100	5.0	25.0
PCB-67	AveID	1.423	1.423		50.0	50.0	-0.0	25.0
PCB-102	AveID	0.8262	0.8755		106	100	6.0	25.0
PCB-98	AveID	0.8262	0.8755		106	100	6.0	25.0
PCB-98/102	AveID	0.8262	0.8755		106	100	6.0	25.0
PCB-63	AveID	1.124	1.151		51.2	50.0	2.4	25.0
PCB-88	AveID	0.8013	0.8604		107	100	7.4	25.0
PCB-88/91	AveID	0.8013	0.8604		107	100	7.4	25.0
PCB-91	AveID	0.8013	0.8604		107	100	7.4	25.0
PCB-61	AveID	1.261	1.268		201	200	0.6	25.0
PCB-61/70/74/76	AveID	1.261	1.268		201	200	0.6	25.0
PCB-70	AveID	1.261	1.268		201	200	0.6	25.0
PCB-74	AveID	1.261	1.268		201	200	0.6	25.0
PCB-76	AveID	1.261	1.268		201	200	0.6	25.0
PCB-84	AveID	0.7299	0.7788		53.4	50.0	6.7	25.0
PCB-66	AveID	1.258	1.333		53.0	50.0	5.9	25.0
PCB-55	AveID	1.324	1.381		52.2	50.0	4.3	25.0
PCB-89	AveID	0.7798	0.8112		52.0	50.0	4.0	25.0
PCB-56	AveID	1.233	1.266		51.3	50.0	2.6	25.0
PCB-121	AveID	1.296	1.387		53.5	50.0	7.0	25.0
PCB-60	AveID	1.123	1.173		52.2	50.0	4.5	25.0
PCB-92	AveID	0.8546	0.8997		52.6	50.0	5.3	25.0
PCB-80	AveID	1.324	1.391		52.5	50.0	5.0	25.0
PCB-155	AveID	0.9444	0.9433		49.9	50.0	-0.1	25.0
PCB-101	AveID	0.9550	1.006		158	150	5.3	25.0
PCB-113	AveID	0.9550	1.006		158	150	5.3	25.0
PCB-152	AveID	0.9895	0.9661		48.8	50.0	-2.4	25.0
PCB-90	AveID	0.9550	1.006		158	150	5.3	25.0
PCB-90/101/113	AveID	0.9550	1.006		158	150	5.3	25.0
PCB-150	AveID	1.013	1.009		49.8	50.0	-0.4	25.0
PCB-136	AveID	1.012	0.9938		49.1	50.0	-1.8	25.0
PCB-83	AveID	0.8385	0.9039		108	100	7.8	25.0
PCB-83/99	AveID	0.8385	0.9039		108	100	7.8	25.0
PCB-99	AveID	0.8385	0.9039		108	100	7.8	25.0
PCB-112	AveID	1.411	1.462		51.8	50.0	3.6	25.0
PCB-145	AveID	0.9685	0.9685		50.0	50.0	0.0	25.0
PCB-109	AveID	1.047	1.104		316	300	5.5	25.0
PCB-119	AveID	1.047	1.104		316	300	5.5	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88205/1 Calibration Date: 06/27/2024 22:00

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240627c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-125	AveID	1.047	1.104		316	300	5.5	25.0
PCB-86	AveID	1.047	1.104		316	300	5.5	25.0
PCB-86/87/97/109/119/125	AveID	1.047	1.104		316	300	5.5	25.0
PCB-87	AveID	1.047	1.104		316	300	5.5	25.0
PCB-97	AveID	1.047	1.104		316	300	5.5	25.0
PCB-79	AveID	1.437	1.421		49.5	50.0	-1.1	25.0
PCB-78	AveID	1.162	1.170		50.3	50.0	0.7	25.0
PCB-116	AveID	1.041	1.107		160	150	6.4	25.0
PCB-117	AveID	1.041	1.107		160	150	6.4	25.0
PCB-85	AveID	1.041	1.107		160	150	6.4	25.0
PCB-85/116/117	AveID	1.041	1.107		160	150	6.4	25.0
PCB-110	AveID	1.192	1.275		107	100	7.0	25.0
PCB-110/115	AveID	1.192	1.275		107	100	7.0	25.0
PCB-115	AveID	1.192	1.275		107	100	7.0	25.0
PCB-81	AveID	1.080	1.110		51.4	50.0	2.7	25.0
PCB-148	AveID	0.7603	0.7492		49.3	50.0	-1.5	25.0
PCB-82	AveID	0.8303	0.8898		53.6	50.0	7.2	25.0
PCB-77	AveID	1.084	1.152		53.2	50.0	6.3	25.0
PCB-111	AveID	1.213	1.302		53.7	50.0	7.4	25.0
PCB-135	AveID	0.7256	0.7392		102	100	1.9	25.0
PCB-135/151	AveID	0.7256	0.7392		102	100	1.9	25.0
PCB-151	AveID	0.7256	0.7392		102	100	1.9	25.0
PCB-120	AveID	1.476	1.566		53.1	50.0	6.1	25.0
PCB-154	AveID	0.8129	0.8177		50.3	50.0	0.6	25.0
PCB-144	AveID	0.7852	0.7790		49.6	50.0	-0.8	25.0
PCB-147	AveID	0.8950	0.8949		100.0	100	-0.0	25.0
PCB-147/149	AveID	0.8950	0.8949		100.0	100	-0.0	25.0
PCB-149	AveID	0.8950	0.8949		100.0	100	-0.0	25.0
PCB-134	AveID	0.7967	0.7685		96.5	100	-3.5	25.0
PCB-134/143	AveID	0.7967	0.7685		96.5	100	-3.5	25.0
PCB-143	AveID	0.7967	0.7685		96.5	100	-3.5	25.0
PCB-108	AveID	1.141	1.106		97.0	100	-3.0	25.0
PCB-108/124	AveID	1.141	1.106		97.0	100	-3.0	25.0
PCB-124	AveID	1.141	1.106		97.0	100	-3.0	25.0
PCB-139	AveID	0.8769	0.8331		95.0	100	-5.0	25.0
PCB-139/140	AveID	0.8769	0.8331		95.0	100	-5.0	25.0
PCB-140	AveID	0.8769	0.8331		95.0	100	-5.0	25.0
PCB-107	AveID	1.212	1.256		51.8	50.0	3.6	25.0
PCB-131	AveID	0.7503	0.7173		47.8	50.0	-4.4	25.0
PCB-123	AveID	1.072	1.018		47.5	50.0	-5.1	25.0
PCB-106	AveID	1.084	1.105		51.0	50.0	1.9	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88205/1 Calibration Date: 06/27/2024 22:00  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240627c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-142	AveID	0.7507	0.7561		50.4	50.0	0.7	25.0
PCB-118	AveID	1.206	1.201		49.8	50.0	-0.4	25.0
PCB-132	AveID	0.7489	0.7130		47.6	50.0	-4.8	25.0
PCB-122	AveID	0.9567	0.9728		50.8	50.0	1.7	25.0
PCB-188	AveID	1.135	1.172		51.6	50.0	3.2	25.0
PCB-114	AveID	1.084	1.106		51.0	50.0	2.0	25.0
PCB-133	AveID	0.8096	0.7827		48.3	50.0	-3.3	25.0
PCB-179	AveID	1.428	1.394		48.8	50.0	-2.3	25.0
PCB-165	AveID	1.025	1.006		49.1	50.0	-1.8	25.0
PCB-105	AveID	1.188	1.251		52.7	50.0	5.4	25.0
PCB-146	AveID	0.9637	0.9451		49.0	50.0	-1.9	25.0
PCB-184	AveID	1.367	1.379		50.4	50.0	0.9	25.0
PCB-161	AveID	1.129	1.092		48.4	50.0	-3.3	25.0
PCB-176	AveID	1.233	1.257		51.0	50.0	2.0	25.0
PCB-153	AveID	1.094	1.092		99.9	100	-0.1	25.0
PCB-153/168	AveID	1.094	1.092		99.9	100	-0.1	25.0
PCB-168	AveID	1.094	1.092		99.9	100	-0.1	25.0
PCB-141	AveID	0.8755	0.8240		47.1	50.0	-5.9	25.0
PCB-186	AveID	1.474	1.501		50.9	50.0	1.9	25.0
PCB-130	AveID	0.7051	0.6893		48.9	50.0	-2.2	25.0
PCB-127	AveID	1.139	1.159		50.9	50.0	1.7	25.0
PCB-137	AveID	0.7767	0.7625		49.1	50.0	-1.8	25.0
PCB-164	AveID	1.038	1.086		52.3	50.0	4.6	25.0
PCB-129	AveID	0.9464	0.9342		197	200	-1.3	25.0
PCB-129/138/160/163	AveID	0.9464	0.9342		197	200	-1.3	25.0
PCB-138	AveID	0.9464	0.9342		197	200	-1.3	25.0
PCB-160	AveID	0.9464	0.9342		197	200	-1.3	25.0
PCB-163	AveID	0.9464	0.9342		197	200	-1.3	25.0
PCB-158	AveID	1.311	1.268		48.4	50.0	-3.3	25.0
PCB-178	AveID	0.8946	0.9162		51.2	50.0	2.4	25.0
PCB-175	AveID	0.9524	1.002		52.6	50.0	5.2	25.0
PCB-126	AveID	1.098	1.137		51.8	50.0	3.6	25.0
PCB-128	AveID	0.9829	0.9831		100	100	0.0	25.0
PCB-128/166	AveID	0.9829	0.9831		100	100	0.0	25.0
PCB-166	AveID	0.9829	0.9831		100	100	0.0	25.0
PCB-187	AveID	1.102	1.161		52.7	50.0	5.4	25.0
PCB-182	AveID	0.9247	0.9885		53.5	50.0	6.9	25.0
PCB-183	AveID	0.9825	0.9548		97.2	100	-2.8	25.0
PCB-183/185	AveID	0.9825	0.9548		97.2	100	-2.8	25.0
PCB-185	AveID	0.9825	0.9548		97.2	100	-2.8	25.0
PCB-174	AveID	0.9642	1.010		52.4	50.0	4.7	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88205/1 Calibration Date: 06/27/2024 22:00

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240627c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-159	AveID	1.386	1.356		48.9	50.0	-2.2	25.0
PCB-162	AveID	1.257	1.219		48.5	50.0	-3.0	25.0
PCB-177	AveID	0.9773	1.011		51.7	50.0	3.5	25.0
PCB-202	AveID	1.036	1.083		52.3	50.0	4.5	25.0
PCB-167	AveID	1.116	1.122		50.3	50.0	0.6	25.0
PCB-181	AveID	0.9505	0.9677		50.9	50.0	1.8	25.0
PCB-171	AveID	0.9336	0.9193		98.5	100	-1.5	25.0
PCB-171/173	AveID	0.9336	0.9193		98.5	100	-1.5	25.0
PCB-173	AveID	0.9336	0.9193		98.5	100	-1.5	25.0
PCB-201	AveID	0.9754	1.017		52.1	50.0	4.3	25.0
PCB-156	AveID	1.110	1.136		102	100	2.3	25.0
PCB-156/157	AveID	1.110	1.136		102	100	2.3	25.0
PCB-157	AveID	1.110	1.136		102	100	2.3	25.0
PCB-204	AveID	1.049	1.073		51.2	50.0	2.4	25.0
PCB-197	AveID	1.146	1.148		50.1	50.0	0.2	25.0
PCB-200	AveID	1.007	1.082		53.7	50.0	7.4	25.0
PCB-172	AveID	0.8519	0.8976		52.7	50.0	5.4	25.0
PCB-192	AveID	1.346	1.465		54.4	50.0	8.9	25.0
PCB-180	AveID	1.168	1.240		106	100	6.2	25.0
PCB-180/193	AveID	1.168	1.240		106	100	6.2	25.0
PCB-193	AveID	1.168	1.240		106	100	6.2	25.0
PCB-191	AveID	1.289	1.402		54.4	50.0	8.7	25.0
PCB-170	AveID	1.187	1.178		49.6	50.0	-0.7	25.0
PCB-190	AveID	1.332	1.464		54.9	50.0	9.9	25.0
PCB-169	AveID	1.163	1.179		50.7	50.0	1.4	25.0
PCB-198	AveID	0.8698	0.9203		106	100	5.8	25.0
PCB-198/199	AveID	0.8698	0.9203		106	100	5.8	25.0
PCB-199	AveID	0.8698	0.9203		106	100	5.8	25.0
PCB-196	AveID	0.7806	0.8418		53.9	50.0	7.8	25.0
PCB-203	AveID	0.9292	1.018		54.8	50.0	9.6	25.0
PCB-208	AveID	1.137	1.141		50.2	50.0	0.3	25.0
PCB-195	AveID	0.8263	0.8867		53.7	50.0	7.3	25.0
PCB-189	AveID	0.9633	1.007		52.3	50.0	4.5	25.0
PCB-207	AveID	1.376	1.358		49.3	50.0	-1.3	25.0
PCB-194	AveID	0.9735	0.9744		50.1	50.0	0.0	25.0
PCB-205	AveID	1.088	1.134		52.2	50.0	4.3	25.0
PCB-206	AveID	1.335	1.263		47.3	50.0	-5.3	25.0
PCB-209	AveID	1.100	1.115		50.7	50.0	1.3	25.0
PCB-1L	Ave	1.611	1.804		112	100	12.0	30.0
PCB-3L	Ave	1.589	1.805		114	100	13.6	30.0
PCB-4L	Ave	0.6475	0.6345		98.0	100	-2.0	30.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88205/1 Calibration Date: 06/27/2024 22:00

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240627c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-19L	Ave	0.6285	0.6020		95.8	100	-4.2	30.0
PCB-15L	Ave	1.079	1.027		95.2	100	-4.8	30.0
PCB-54L	Ave	0.5562	0.5921		106	100	6.4	30.0
PCB-104L	Ave	1.216	1.203		98.9	100	-1.1	30.0
PCB-37L	Ave	0.8749	0.8671		99.1	100	-0.9	30.0
PCB-155L	Ave	1.085	1.101		102	100	1.5	30.0
PCB-81L	Ave	1.247	1.252		100	100	0.4	30.0
PCB-77L	Ave	1.321	1.316		99.6	100	-0.4	30.0
PCB-123L	Ave	0.9731	0.9681		99.5	100	-0.5	30.0
PCB-118L	Ave	1.010	1.023		101	100	1.3	30.0
PCB-188L	Ave	1.313	1.260		95.9	100	-4.1	30.0
PCB-114L	Ave	0.9949	0.996		100	100	0.1	30.0
PCB-105L	Ave	0.9514	0.9507		99.9	100	-0.0	30.0
PCB-126L	Ave	0.9439	0.9947		105	100	5.4	30.0
PCB-202L	Ave	0.9818	0.9111		92.8	100	-7.2	30.0
PCB-167L	Ave	1.257	1.257		100.0	100	-0.0	30.0
PCB-156L	Ave	1.211	1.233		204	200	1.8	30.0
PCB-156L/157L	Ave	1.211	1.233		204	200	1.8	30.0
PCB-157L	Ave	1.211	1.233		204	200	1.8	30.0
PCB-170L	Ave	0.8362	0.8563		102	100	2.4	30.0
PCB-169L	Ave	1.244	1.302		105	100	4.6	30.0
PCB-208L	Ave	0.9576	0.9695		101	100	1.2	30.0
PCB-189L	Ave	1.441	1.655		115	100	14.8	30.0
PCB-205L	Ave	1.179	1.229		104	100	4.3	30.0
PCB-206L	Ave	0.6947	0.7043		101	100	1.4	30.0
PCB-209L	Ave	0.6669	0.6869		103	100	3.0	30.0
PCB-8L	AveID	1.207	1.151		47.7	50.0	-4.6	25.0
PCB-28L	Ave	1.049	0.9754		46.5	50.0	-7.1	30.0
PCB-95L	AveID	0.7218	0.7051		48.8	50.0	-2.3	25.0
PCB-79L	AveID	1.002	0.9774		48.8	50.0	-2.4	25.0
PCB-111L	Ave	1.370	1.293		47.2	50.0	-5.6	30.0
PCB-153L	AveID	0.9169	0.8043		43.9	50.0	-12.3	25.0
PCB-178L	Ave	1.031	0.9179		44.5	50.0	-11.0	30.0

# Resolution Check Report ( DFS SN: 3190 )

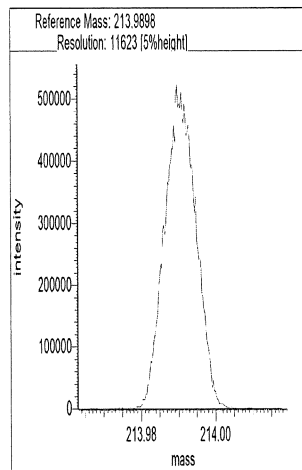
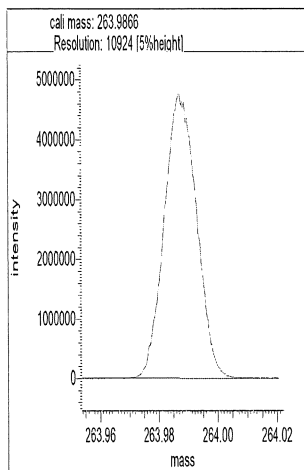
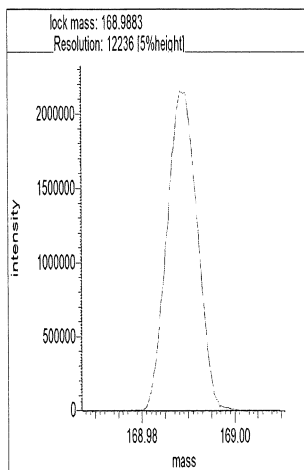
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MID Experiment: ResCheck\_1668  
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Status: RESOLUTION PASSED

## Segment 1

Lock mass 168.9883 [m/z] Resolution: 12236 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 10924 [5%height]

Ref. mass 213.9898 [m/z] Resolution: 11623 [5%height]



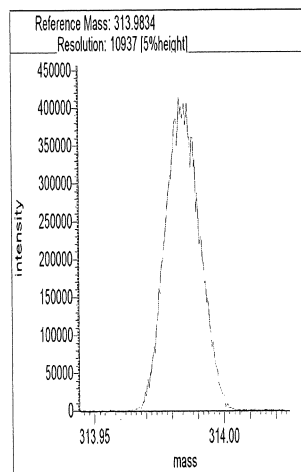
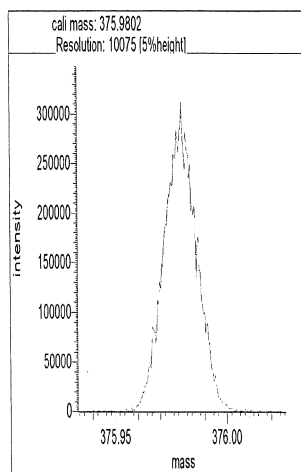
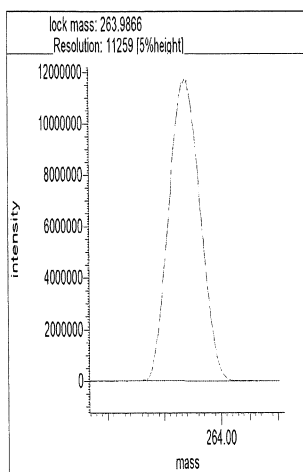
## Segment 2

Lock mass 263.9866 [m/z] Resolution: 11259 [5%height]

Cali. mass 375.9802 [m/z] Resolution: 10075 [5%height]

Ref. mass 313.9834 [m/z] Resolution: 10937 [5%height]

d2240627r2

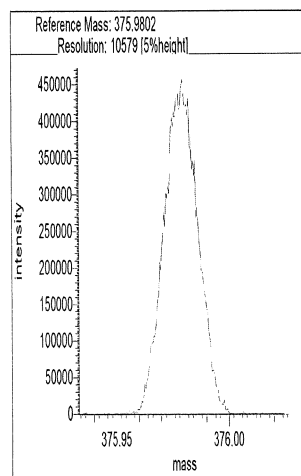
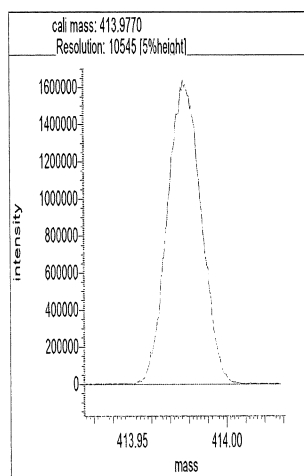
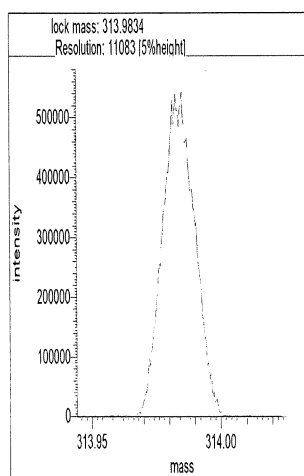


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11083 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10545 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 10579 [5%height]

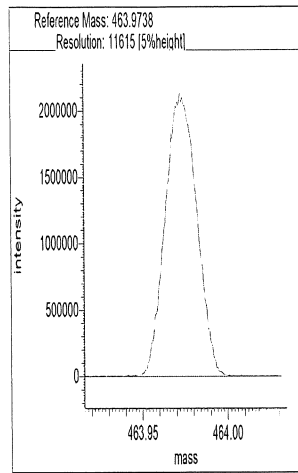
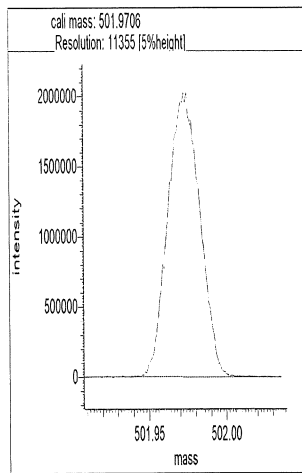
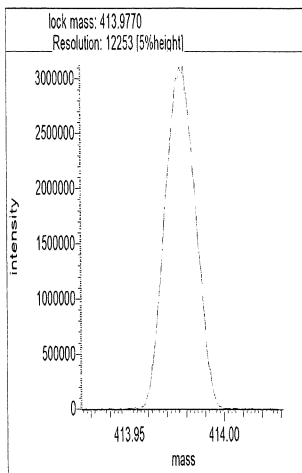


### Segment 4

Lock mass 413.9770 [m/z] Resolution: 12253 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11355 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 11615 [5%height]






## Reports

21:54:27: Peak matching procedure started  
21:54:27:  
21:54:28: Reference mass: 168.98827  
21:54:28: Sample mass: 214.0  
21:54:28:  
21:54:29: Finding reference mass  
21:54:30: Finding sample mass  
21:54:30:  
21:54:37: [1] 213.9899 amu, mean: 213.9899  
21:54:40: [2] 213.9900 amu, mean: 213.9899 SD: 0.05 mmu or: 0.23 ppm  
21:54:43: [3] 213.9895 amu, mean: 213.9898 SD: 0.22 mmu or: 1.02 ppm  
21:54:46: [4] 213.9900 amu, mean: 213.9898 SD: 0.20 mmu or: 0.92 ppm  
21:54:47:  
21:54:47: Stop requested. Please wait for procedure to finish.  
21:54:47:  
21:54:49:  
21:54:50: Peakmatching stopped

Signature

 6/27/24

## Reports

21:55:04: Peak matching procedure started  
21:55:04:  
21:55:05: Reference mass: 213.98975  
21:55:05: Sample mass: 264.0  
21:55:06:  
21:55:06: Finding reference mass  
21:55:07: Finding sample mass  
21:55:08:  
21:55:14: [1] 263.9871 amu, mean: 263.9871  
21:55:17: [2] 263.9870 amu, mean: 263.9871 SD: 0.06 mmu or: 0.25 ppm  
21:55:20: [3] 263.9868 amu, mean: 263.9870 SD: 0.15 mmu or: 0.57 ppm  
21:55:23: [4] 263.9869 amu, mean: 263.9870 SD: 0.14 mmu or: 0.52 ppm  
21:55:24:  
21:55:24: Stop requested. Please wait for procedure to finish.  
21:55:24:  
21:55:26:  
21:55:27: Peakmatching stopped

Signature

*mar* 6/27/24

## Reports

21:55:40: Peak matching procedure started  
21:55:40:  
21:55:41: Reference mass: 263.98656  
21:55:41: Sample mass: 314.0  
21:55:42:  
21:55:42: Finding reference mass  
21:55:43: Finding sample mass  
21:55:44:  
21:55:49: [1] 313.9837 amu, mean: 313.9837  
21:55:53: [2] 313.9834 amu, mean: 313.9836 SD: 0.21 mmu or: 0.68 ppm  
21:55:56: [3] 313.9835 amu, mean: 313.9835 SD: 0.16 mmu or: 0.50 ppm  
21:55:59: [4] 313.9838 amu, mean: 313.9836 SD: 0.18 mmu or: 0.58 ppm  
21:56:00:  
21:56:00: Stop requested. Please wait for procedure to finish.  
21:56:00:  
21:56:02:  
21:56:03: Peakmatching stopped

Signature

*mmf* 6/27/24

## Reports

21:56:16: Peak matching procedure started  
21:56:17:  
21:56:17: Reference mass: 313.98336  
21:56:18: Sample mass: 376.0  
21:56:18:  
21:56:19: Finding reference mass  
21:56:20: Finding sample mass  
21:56:20:  
21:56:26: [1] 375.9812 amu, mean: 375.9812  
21:56:29: [2] 375.9813 amu, mean: 375.9812 SD: 0.09 mmu or: 0.24 ppm  
21:56:32: [3] 375.9811 amu, mean: 375.9812 SD: 0.08 mmu or: 0.22 ppm  
21:56:35: [4] 375.9805 amu, mean: 375.9810 SD: 0.35 mmu or: 0.94 ppm  
21:56:36:  
21:56:36: Stop requested. Please wait for procedure to finish.  
21:56:36:  
21:56:39:  
21:56:39: Peakmatching stopped


Signature

mm 6/27/24

## Reports

21:56:16: Peak matching procedure started  
21:56:17:  
21:56:17: Reference mass: 313.98336  
21:56:18: Sample mass: 376.0  
21:56:18:  
21:56:19: Finding reference mass  
21:56:20: Finding sample mass  
21:56:20:  
21:56:26: [1] 375.9812 amu, mean: 375.9812  
21:56:29: [2] 375.9813 amu, mean: 375.9812 SD: 0.09 mmu or: 0.24 ppm  
21:56:32: [3] 375.9811 amu, mean: 375.9812 SD: 0.08 mmu or: 0.22 ppm  
21:56:35: [4] 375.9805 amu, mean: 375.9810 SD: 0.35 mmu or: 0.94 ppm  
21:56:36:  
21:56:36: Stop requested. Please wait for procedure to finish.  
21:56:36:  
21:56:39:  
21:56:39: Peakmatching stopped

Signature

 6/27/24

## Reports

21:56:57: Peak matching procedure started  
21:56:58:  
21:56:58: Reference mass: 375.98017  
21:56:59: Sample mass: 414.0  
21:56:59:  
21:57:00: Finding reference mass  
21:57:01: Finding sample mass  
21:57:01:  
21:57:07: [1] 413.9773 amu, mean: 413.9773  
21:57:10: [2] 413.9775 amu, mean: 413.9774 SD: 0.13 mmu or: 0.32 ppm  
21:57:14: [3] 413.9776 amu, mean: 413.9775 SD: 0.18 mmu or: 0.43 ppm  
21:57:17: [4] 413.9774 amu, mean: 413.9775 SD: 0.15 mmu or: 0.36 ppm  
21:57:17:  
21:57:17: Stop requested. Please wait for procedure to finish.  
21:57:17:  
21:57:20:  
21:57:20: Peakmatching stopped

Signature

*mdr* 6/27/24

## Reports

21:57:36: Peak matching procedure started  
21:57:36:  
21:57:37: Reference mass: 413.97698  
21:57:37: Sample mass: 464.0  
21:57:38:  
21:57:38: Finding reference mass  
21:57:39: Finding sample mass  
21:57:40:  
21:57:45: [1] 463.9739 amu, mean: 463.9739  
21:57:49: [2] 463.9739 amu, mean: 463.9739 SD: 0.02 mmu or: 0.04 ppm  
21:57:52: [3] 463.9739 amu, mean: 463.9739 SD: 0.03 mmu or: 0.07 ppm  
21:57:55: [4] 463.9739 amu, mean: 463.9739 SD: 0.03 mmu or: 0.07 ppm  
21:57:56:  
21:57:56: Stop requested. Please wait for procedure to finish.  
21:57:56:  
21:57:58:  
21:57:59: Peakmatching stopped

Signature

*mal 6/27/24*

## Reports

21:58:12: Peak matching procedure started  
21:58:12:  
21:58:13: Reference mass: 463.97378  
21:58:13: Sample mass: 502.0  
21:58:14:  
21:58:14: Finding reference mass  
21:58:15: Finding sample mass  
21:58:16:  
21:58:21: [1] 501.9708 amu, mean: 501.9708  
21:58:25: [2] 501.9705 amu, mean: 501.9707 SD: 0.16 mmu or: 0.31 ppm  
21:58:28: [3] 501.9709 amu, mean: 501.9708 SD: 0.20 mmu or: 0.41 ppm  
21:58:31: [4] 501.9707 amu, mean: 501.9707 SD: 0.17 mmu or: 0.33 ppm  
21:58:31:  
21:58:31: Stop requested. Please wait for procedure to finish.  
21:58:31:  
21:58:34:  
21:58:35: Peakmatching stopped

Signature

mal 6/27/24



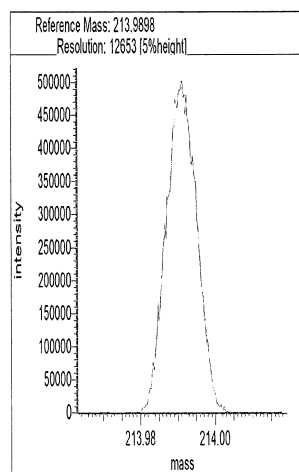
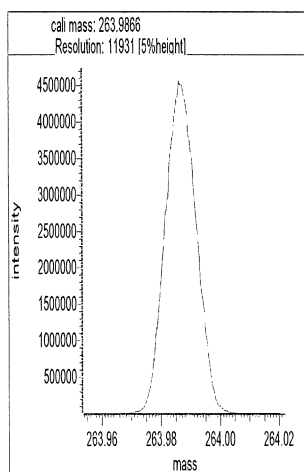
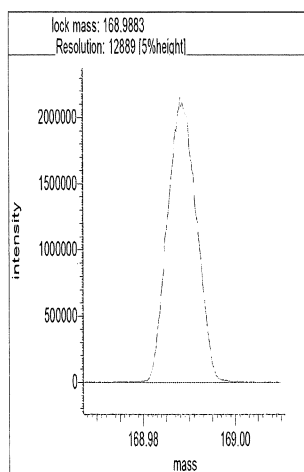
# Resolution Check Report ( DFS SN: 3190 )

Date: 28 Jun 2024 09:25  
MID Experiment: ResCheck\_1668  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43KnxPCB.lua  
Status: RESOLUTION PASSED

## Segment 1

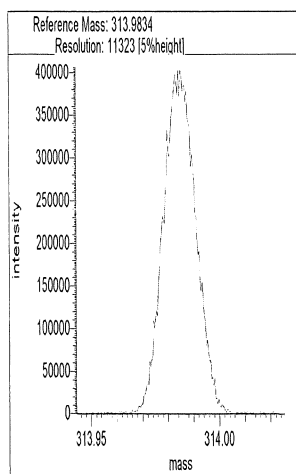
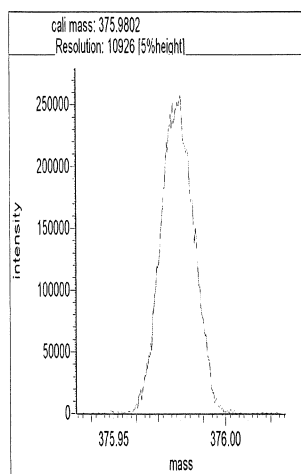
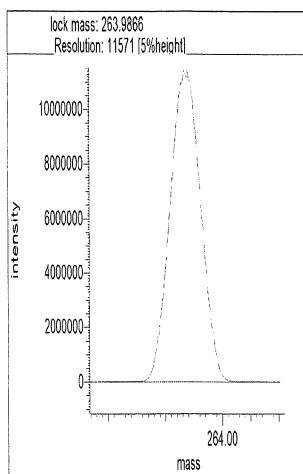
Lock mass 168.9883 [m/z] Resolution: 12889 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 11931 [5%height]  
Ref. mass 213.9898 [m/z] Resolution: 12653 [5%height]

-d 2290628.1



## Segment 2

Lock mass 263.9866 [m/z] Resolution: 11571 [5%height]  
Cali. mass 375.9802 [m/z] Resolution: 10926 [5%height]  
Ref. mass 313.9834 [m/z] Resolution: 11323 [5%height]

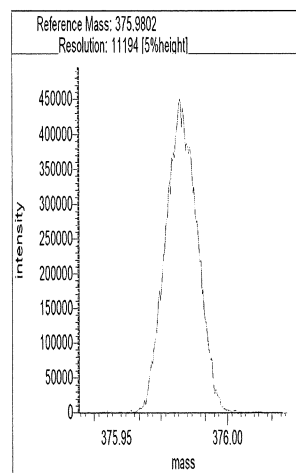
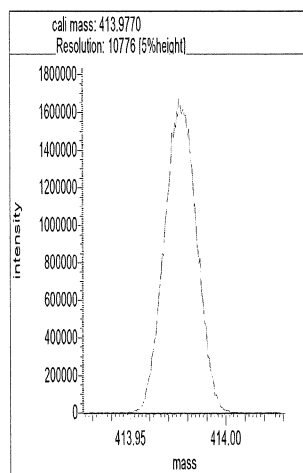
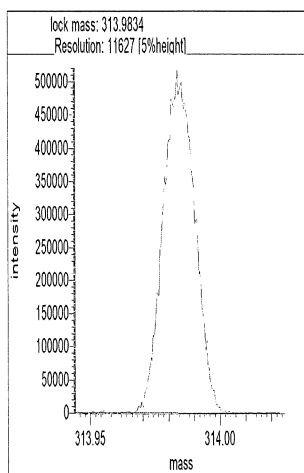


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11627 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10776 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 11194 [5%height]

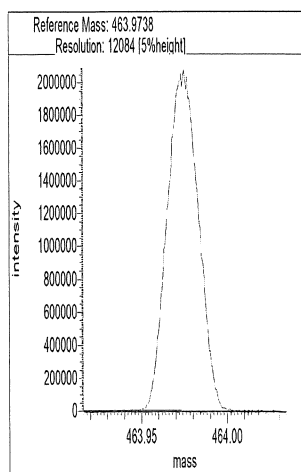
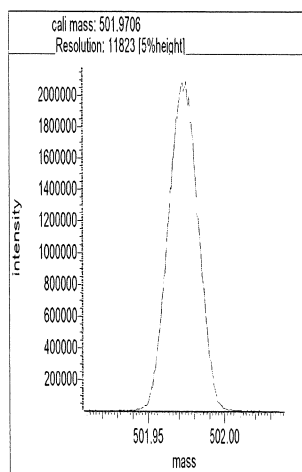
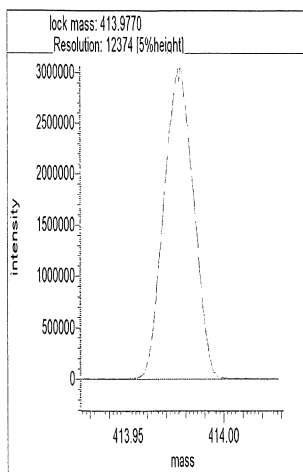


### Segment 4

Lock mass 413.9770 [m/z] Resolution: 12374 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11823 [5%height]

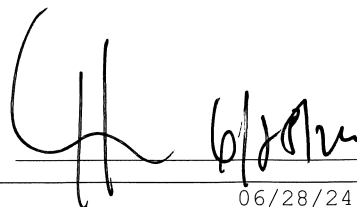
Ref. mass 463.9738 [m/z] Resolution: 12084 [5%height]



## Reports

09:34:23: Peak matching procedure started  
09:34:24:  
09:34:24: Reference mass: 168.98827  
09:34:25: Sample mass: 214.0  
09:34:25:  
09:34:26: Finding reference mass  
09:34:27: Finding sample mass  
09:34:27:  
09:34:33: [1] 213.9895 amu, mean: 213.9895  
09:34:37: [2] 213.9896 amu, mean: 213.9895 SD: 0.04 mmu or: 0.16 ppm  
09:34:40: [3] 213.9898 amu, mean: 213.9896 SD: 0.14 mmu or: 0.66 ppm  
09:34:43: [4] 213.9897 amu, mean: 213.9896 SD: 0.12 mmu or: 0.57 ppm  
09:34:44:  
09:34:44: Stop requested. Please wait for procedure to finish.  
09:34:44:  
09:34:46: [5] 213.9897 amu, mean: 213.9897 SD: 0.11 mmu or: 0.52 ppm  
09:34:48:  
09:34:48: Peakmatching stopped

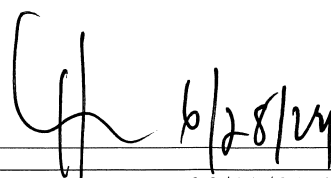
Signature



## Reports

09:35:00: Peak matching procedure started  
09:35:00:  
09:35:01: Reference mass: 213.98975  
09:35:01: Sample mass: 264.0  
09:35:02:  
09:35:02: Finding reference mass  
09:35:03: Finding sample mass  
09:35:03:  
09:35:09: [1] 263.9867 amu, mean: 263.9867  
09:35:12: [2] 263.9865 amu, mean: 263.9866 SD: 0.14 mmu or: 0.53 ppm  
09:35:15: [3] 263.9865 amu, mean: 263.9865 SD: 0.10 mmu or: 0.39 ppm  
09:35:19: [4] 263.9867 amu, mean: 263.9866 SD: 0.10 mmu or: 0.38 ppm  
09:35:19:  
09:35:19: Stop requested. Please wait for procedure to finish.  
09:35:19:  
09:35:22:  
09:35:22: Peakmatching stopped

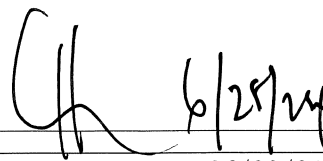
Signature



## Reports

09:35:32: Peak matching procedure started  
09:35:33: Reference mass: 263.98656  
09:35:34: Sample mass: 314.0  
09:35:34: Finding reference mass  
09:35:36: Finding sample mass  
09:35:36:  
09:35:42: [1] 313.9838 amu, mean: 313.9838  
09:35:45: [2] 313.9836 amu, mean: 313.9837 SD: 0.09 mmu or: 0.28 ppm  
09:35:48: [3] 313.9840 amu, mean: 313.9838 SD: 0.17 mmu or: 0.54 ppm  
09:35:51: [4] 313.9831 amu, mean: 313.9836 SD: 0.38 mmu or: 1.22 ppm  
09:35:52: Stop requested. Please wait for procedure to finish.  
09:35:52:  
09:35:55: Peakmatching stopped

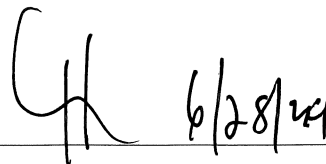
Signature



## Reports

09:36:07: Peak matching procedure started  
09:36:08:  
09:36:08: Reference mass: 313.98336  
09:36:09: Sample mass: 376.0  
09:36:09:  
09:36:10: Finding reference mass  
09:36:11: Finding sample mass  
09:36:11:  
09:36:17: [1] 375.9809 amu, mean: 375.9809  
09:36:20: [2] 375.9802 amu, mean: 375.9805 SD: 0.55 mmu or: 1.45 ppm  
09:36:23: [3] 375.9802 amu, mean: 375.9804 SD: 0.43 mmu or: 1.15 ppm  
09:36:27: [4] 375.9802 amu, mean: 375.9804 SD: 0.38 mmu or: 1.00 ppm  
09:36:28:  
09:36:28: Stop requested. Please wait for procedure to finish.  
09:36:28:  
09:36:30: [5] 375.9810 amu, mean: 375.9805 SD: 0.42 mmu or: 1.12 ppm  
09:36:31:  
09:36:32: Peakmatching stopped

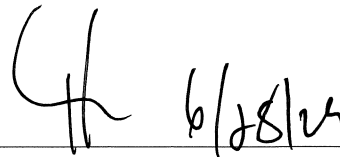
Signature



## Reports

09:36:07: Peak matching procedure started  
09:36:08:  
09:36:08: Reference mass: 313.98336  
09:36:09: Sample mass: 376.0  
09:36:09:  
09:36:10: Finding reference mass  
09:36:11: Finding sample mass  
09:36:11:  
09:36:17: [1] 375.9809 amu, mean: 375.9809  
09:36:20: [2] 375.9802 amu, mean: 375.9805 SD: 0.55 mmu or: 1.45 ppm  
09:36:23: [3] 375.9802 amu, mean: 375.9804 SD: 0.43 mmu or: 1.15 ppm  
09:36:27: [4] 375.9802 amu, mean: 375.9804 SD: 0.38 mmu or: 1.00 ppm  
09:36:28:  
09:36:28: Stop requested. Please wait for procedure to finish.  
09:36:28:  
09:36:30: [5] 375.9810 amu, mean: 375.9805 SD: 0.42 mmu or: 1.12 ppm  
09:36:31:  
09:36:32: Peakmatching stopped

Signature

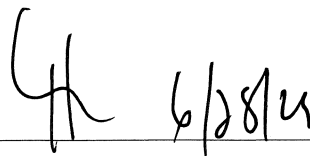




## Reports

09:36:46: Peak matching procedure started  
09:36:46:  
09:36:47: Reference mass: 375.98017  
09:36:47: Sample mass: 414.0  
09:36:48:  
09:36:48: Finding reference mass  
09:36:49: Finding sample mass  
09:36:50:  
09:36:55: [1] 413.9771 amu, mean: 413.9771 SD: 0.02 mmu or: 0.04 ppm  
09:36:59: [2] 413.9770 amu, mean: 413.9771 SD: 0.04 mmu or: 0.09 ppm  
09:37:02: [3] 413.9771 amu, mean: 413.9771 SD: 0.04 mmu or: 0.09 ppm  
09:37:05: [4] 413.9762 amu, mean: 413.9769 SD: 0.44 mmu or: 1.06 ppm  
09:37:06:  
09:37:06: Stop requested. Please wait for procedure to finish.  
09:37:06:  
09:37:08: [5] 413.9770 amu, mean: 413.9769 SD: 0.39 mmu or: 0.93 ppm  
09:37:09:  
09:37:10: Peakmatching stopped

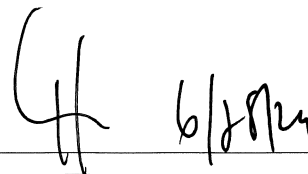
Signature



## Reports

09:37:21: Peak matching procedure started  
09:37:22:  
09:37:22: Reference mass: 413.97698  
09:37:23: Sample mass: 464.0  
09:37:23:  
09:37:24: Finding reference mass  
09:37:25: Finding sample mass  
09:37:25:  
09:37:31: [1] 463.9735 amu, mean: 463.9735  
09:37:34: [2] 463.9738 amu, mean: 463.9737 SD: 0.18 mmu or: 0.39 ppm  
09:37:37: [3] 463.9730 amu, mean: 463.9734 SD: 0.43 mmu or: 0.92 ppm  
09:37:40: [4] 463.9732 amu, mean: 463.9734 SD: 0.36 mmu or: 0.78 ppm  
09:37:40:  
09:37:40: Stop requested. Please wait for procedure to finish.  
09:37:40:  
09:37:43:  
09:37:43: Peakmatching stopped

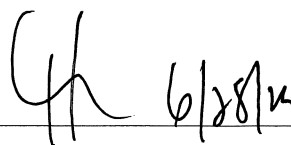
Signature



## Reports

09:37:55: Peak matching procedure started  
09:37:56:  
09:37:56: Reference mass: 463.97378  
09:37:57: Sample mass: 502.0  
09:37:57:  
09:37:58: Finding reference mass  
09:37:59: Finding sample mass  
09:37:59:  
09:38:05: [1] 501.9704 amu, mean: 501.9704  
09:38:08: [2] 501.9699 amu, mean: 501.9702 SD: 0.30 mmu or: 0.59 ppm  
09:38:11: [3] 501.9708 amu, mean: 501.9704 SD: 0.42 mmu or: 0.84 ppm  
09:38:14: [4] 501.9712 amu, mean: 501.9706 SD: 0.56 mmu or: 1.11 ppm  
09:38:14:  
09:38:14: Stop requested. Please wait for procedure to finish.  
09:38:14:  
09:38:17:  
09:38:18: Peakmatching stopped

Signature



Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Lims ID: WDMCCV  
Client ID:  
Sample Type: WDMCCV  
Inject. Date: 27-Jun-2024 22:00:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub2  
  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 27-Jun-2024 23:21:19 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1639

First Level Reviewer: Q9DB

Date: 27-Jun-2024 23:21:19

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					160.0	160.0	0.1168	0.1168		
D PCB-1L	11:42	24682282	3.18	1.6108	112.0	112.0	0.1384	0.1384	112	
D PCB-3L	13:50	24696459	3.28	1.5891	113.6	113.6	0.1403	0.1403	114	
PCB-1	11:42	16120086	3.21	1.2191	53.6	53.6	0.1070	0.1070	107	
PCB-2	13:41	15540488	3.17	1.1805	53.3	53.3	0.1189	0.1189	107	
PCB-3	13:51	16019049	3.14	1.2206	53.1	53.1	0.1246	0.1246	106	
S Total Dichlorobiphenyls					652.0	652.0	0.0245	0.0245		
D PCB-4L	14:06	8681095	1.62	0.6475	98.0	98.0	0.0403	0.0403	97.99	
* PCB-9L	16:04	13681187	1.60		100.0	100.0				
\$ PCB-8L	16:54	6542482	1.63	1.2066	47.7	47.7	0.0276	0.0276	95.41	
D PCB-15L	19:58	14051687	1.61	1.0789	95.2	95.2	0.0242	0.0242	95.19	
PCB-4	14:07	5960747	1.59	1.2818	53.6	53.6	0.0284	0.0284	107	
PCB-10	14:17	8398040	1.61	1.3149	56.2	56.2	0.0256	0.0256	112	
PCB-9	16:04	9034271	1.60	1.4224	55.9	55.9	0.0237	0.0237	112	
PCB-7	16:15	8759097	1.61	1.4134	54.5	54.5	0.0238	0.0238	109	
PCB-6	16:29	9341107	1.61	1.5421	53.3	53.3	0.0218	0.0218	107	
PCB-5	16:48	8252600	1.63	1.3395	54.2	54.2	0.0251	0.0251	108	
PCB-8	16:55	9932621	1.62	1.5889	55.0	55.0	0.0212	0.0212	110	
PCB-14	18:32	8495670	1.64	1.4025	53.3	53.3	0.0240	0.0240	107	
PCB-11	19:22	7907832	1.63	1.2951	53.7	53.7	0.0260	0.0260	107	
PCB-12	19:40	16361452	1.60	1.3358	107.8	107.8	0.0252	0.0252	108	
PCB-13 (C12)	19:40	16361452	1.60	1.3358	107.8	107.8	0.0252	0.0252	108	
PCB-15	19:59	9902031	1.66	1.2903	54.6	54.6	0.0242	0.0242	109	
S Total Trichlorobiphenyls					1237.4	1237.4	0.2432	0.2432		
D PCB-19L	17:12	5358283	1.06	0.6285	95.8	95.8	0.1384	0.1384	95.77	
* PCB-32L	20:27	8901144	1.15		100.0	100.0				
* PCB-31L	22:42	27563929	1.07		100.0	100.0				
\$ PCB-28L	22:59	13442431	1.05	1.0494	46.5	46.5	0.0998	0.0998	92.95	
D PCB-37L	26:59	23902029	1.07	0.8749	99.1	99.1	0.1197	0.1197	99.11	
PCB-19	17:13	3596464	1.08	1.2809	52.4	52.4	0.0213	0.0213	105	
PCB-18	19:02	9934591	1.05	1.7652	105.0	105.0	0.0155	0.0155	105	
PCB-30 (C18)	19:02	9934591	1.05	1.7652	105.0	105.0	0.0155	0.0155	105	
PCB-17	19:29	3439752	1.05	1.2430	51.6	51.6	0.0220	0.0220	103	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:43	5201819	1.05	1.8327	53.0	53.0	0.0149	0.0149	106	
PCB-24	19:50	4859095	1.05	1.6777	54.1	54.1	0.0163	0.0163	108	
PCB-16	19:58	3370930	1.08	1.1286	55.7	55.7	0.0242	0.0242	111	
PCB-32	20:28	5402698	1.05	1.8324	55.0	55.0	0.0149	0.0149	110	
PCB-34	21:43	13613888	1.06	1.1277	50.5	50.5	0.3675	0.3675	101	
PCB-23	21:51	13268843	1.07	1.0813	51.3	51.3	0.3833	0.3833	103	
PCB-26	22:11	27199873	1.05	1.1255	101.1	101.1	0.3683	0.3683	101	
PCB-29 (C26)	22:11	27199873	1.05	1.1255	101.1	101.1	0.3683	0.3683	101	
PCB-25	22:24	15809555	1.05	1.2728	52.0	52.0	0.3257	0.3257	104	
PCB-31	22:43	14155174	1.06	1.1532	51.4	51.4	0.3594	0.3594	103	
PCB-20	23:01	28089527	1.05	1.1718	100.3	100.3	0.3537	0.3537	100	
PCB-28 (C20)	23:01	28089527	1.05	1.1718	100.3	100.3	0.3537	0.3537	100	
PCB-21	23:15	26655405	1.05	1.0746	103.8	103.8	0.3857	0.3857	104	M
PCB-33 (C21)	23:15	26655405	1.05	1.0746	103.8	103.8	0.3857	0.3857	104	M
PCB-22	23:39	14693724	1.07	1.1932	51.5	51.5	0.3474	0.3474	103	
PCB-36	25:11	12939957	1.06	1.1071	48.9	48.9	0.3744	0.3744	97.80	
PCB-39	25:33	13853340	1.05	1.1581	50.0	50.0	0.3579	0.3579	100	
PCB-38	26:07	12858905	1.06	1.0843	49.6	49.6	0.3823	0.3823	99.23	
PCB-35	26:36	13644140	1.03	1.1297	50.5	50.5	0.3669	0.3669	101	
PCB-37	27:00	13546046	1.04	1.1435	49.6	49.6	0.3625	0.3625	99.12	
S Total Tetrachlorobiphenyls					2139.7	2139.7	0.0403	0.0403		
D PCB-54L	20:16	5270274	0.80	0.5562	106.4	106.4	0.0134	0.0134	106	
* PCB-52L	24:49	12779771	0.80		100.0	100.0				
\$ PCB-79L	32:43	8020617	0.80	1.0018	48.8	48.8	0.3035	0.3035	97.56	
D PCB-81L	33:43	16000530	0.82	1.2470	100.4	100.4	0.2713	0.2713	100	
D PCB-77L	34:17	16822597	0.82	1.3212	99.6	99.6	0.2561	0.2561	99.63	
PCB-54	20:18	3284670	0.79	1.2733	48.9	48.9	0.0201	0.0201	97.89	
PCB-50	22:27	13969652	0.80	0.8578	99.2	99.2	0.0510	0.0510	99.23	
PCB-53 (C50)	22:27	13969652	0.80	0.8578	99.2	99.2	0.0510	0.0510	99.23	
PCB-45	23:11	13834643	0.80	0.8264	102.0	102.0	0.0529	0.0529	102	
PCB-51 (C45)	23:11	13834643	0.80	0.8264	102.0	102.0	0.0529	0.0529	102	
PCB-46	23:26	6047716	0.80	0.7101	51.9	51.9	0.0616	0.0616	104	
PCB-52	24:51	8081653	0.79	0.9194	53.6	53.6	0.0476	0.0476	107	
PCB-43	24:59	17453989	0.79	1.0333	102.9	102.9	0.0423	0.0423	103	M
PCB-73 (C43)	24:59	17453989	0.79	1.0333	102.9	102.9	0.0423	0.0423	103	M
PCB-49	25:16	17730093	0.80	1.0685	101.1	101.1	0.0410	0.0410	101	
PCB-69 (C49)	25:16	17730093	0.80	1.0685	101.1	101.1	0.0410	0.0410	101	
PCB-48	25:36	7046162	0.79	0.8399	51.1	51.1	0.0521	0.0521	102	
PCB-44	25:51	23675042	0.80	0.9731	148.2	148.2	0.0450	0.0450	98.83	
PCB-47 (C44)	25:51	23675042	0.80	0.9731	148.2	148.2	0.0450	0.0450	98.83	
PCB-65 (C44)	25:51	23675042	0.80	0.9731	148.2	148.2	0.0450	0.0450	98.83	
PCB-59	26:10	28379960	0.80	1.1853	145.9	145.9	0.0369	0.0369	97.27	
PCB-62 (C59)	26:10	28379960	0.80	1.1853	145.9	145.9	0.0369	0.0369	97.27	
PCB-75 (C59)	26:10	28379960	0.80	1.1853	145.9	145.9	0.0369	0.0369	97.27	
PCB-42	26:21	7213719	0.80	0.8097	54.3	54.3	0.0540	0.0540	109	
PCB-40	26:51	21935693	0.80	0.8863	150.8	150.8	0.0494	0.0494	101	
PCB-41 (C40)	26:51	21935693	0.80	0.8863	150.8	150.8	0.0494	0.0494	101	
PCB-71 (C40)	26:51	21935693	0.80	0.8863	150.8	150.8	0.0494	0.0494	101	
PCB-64	27:04	9883945	0.79	1.1776	51.1	51.1	0.0372	0.0372	102	
PCB-72	27:53	9317616	0.80	1.0943	51.9	51.9	0.0400	0.0400	104	
PCB-68	28:11	10692958	0.77	1.2533	52.0	52.0	0.0349	0.0349	104	
PCB-57	28:36	9318470	0.80	1.0818	52.5	52.5	0.0404	0.0404	105	
PCB-58	28:51	11829916	0.80	1.3253	54.4	54.4	0.0330	0.0330	109	
PCB-67	29:00	11673570	0.79	1.4230	50.0	50.0	0.0307	0.0307	99.97	
PCB-63	29:16	9445139	0.79	1.1240	51.2	51.2	0.0389	0.0389	102	
PCB-61	29:37	41632617	0.79	1.2612	201.1	201.1	0.0347	0.0347	101	
PCB-70 (C61)	29:37	41632617	0.79	1.2612	201.1	201.1	0.0347	0.0347	101	
PCB-74 (C61)	29:37	41632617	0.79	1.2612	201.1	201.1	0.0347	0.0347	101	
PCB-76 (C61)	29:37	41632617	0.79	1.2612	201.1	201.1	0.0347	0.0347	101	
PCB-66	29:56	10934621	0.80	1.2583	53.0	53.0	0.0348	0.0348	106	
PCB-55	30:06	11329557	0.80	1.3236	52.2	52.2	0.0331	0.0331	104	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:37	10384737	0.80	1.2334	51.3	51.3	0.0355	0.0355	103	
PCB-60	30:49	9627280	0.79	1.1230	52.2	52.2	0.0390	0.0390	104	
PCB-80	31:13	11412302	0.80	1.3243	52.5	52.5	0.0330	0.0330	105	
PCB-79	32:45	11659669	0.81	1.4368	49.4	49.4	0.0305	0.0305	98.89	
PCB-78	33:18	9599212	0.79	1.1618	50.3	50.3	0.0377	0.0377	101	
PCB-81	33:44	8878127	0.80	1.0802	51.4	51.4	0.0409	0.0409	103	
PCB-77	34:18	9689545	0.79	1.0836	53.2	53.2	0.0400	0.0400	106	
S Total Pentachlorobiphenyls					2407.0	2407.0	0.1763	0.1763		
D PCB-104L	25:45	9895111	1.59	1.2161	98.9	98.9	0.0198	0.0198	98.92	
\$ PCB-95L	28:44	3488421	1.67	0.7218	48.8	48.8	0.0261	0.0261	97.68	
* PCB-101L	31:39	8226072	1.61		100.0	100.0				
\$ PCB-111L	34:18	5318958	1.62	1.3699	47.2	47.2	0.0176	0.0176	94.40	
D PCB-123L	36:16	18248504	1.61	0.9731	99.5	99.5	0.8009	0.8009	99.48	
D PCB-118L	36:36	19291909	1.61	1.0102	101.3	101.3	0.7715	0.7715	101	
D PCB-114L	37:07	18780085	1.62	0.9949	100.1	100.1	0.7834	0.7834	100	
D PCB-105L	37:47	17920547	1.61	0.9514	99.9	99.9	0.8192	0.8192	99.93	
* PCB-127L	39:14	18849407	1.62		100.0	100.0				
D PCB-126L	40:51	18749133	1.62	0.9439	105.4	105.4	0.8257	0.8257	105	
PCB-104	25:47	5310399	1.58	1.0087	53.2	53.2	0.0293	0.0293	106	
PCB-96	26:10	5514990	1.59	1.0940	50.9	50.9	0.0271	0.0271	102	
PCB-103	28:04	4635524	1.63	0.8741	53.6	53.6	0.0339	0.0339	107	
PCB-94	28:18	3904318	1.62	0.7640	51.6	51.6	0.0387	0.0387	103	
PCB-95	28:45	4200608	1.56	0.8033	52.8	52.8	0.0369	0.0369	106	
PCB-93	28:57	8754619	1.61	0.8429	105.0	105.0	0.0351	0.0351	105	
PCB-100 (C93)	28:57	8754619	1.61	0.8429	105.0	105.0	0.0351	0.0351	105	
PCB-98	29:06	8662889	1.62	0.8262	106.0	106.0	0.0358	0.0358	106	
PCB-102 (C98)	29:06	8662889	1.62	0.8262	106.0	106.0	0.0358	0.0358	106	
PCB-88	29:36	8513345	1.61	0.8013	107.4	107.4	0.0369	0.0369	107	
PCB-91 (C88)	29:36	8513345	1.61	0.8013	107.4	107.4	0.0369	0.0369	107	
PCB-84	29:51	3853185	1.64	0.7299	53.3	53.3	0.0406	0.0406	107	
PCB-89	30:18	4013578	1.58	0.7798	52.0	52.0	0.0380	0.0380	104	
PCB-121	30:42	6861457	1.61	1.2964	53.5	53.5	0.0228	0.0228	107	M
PCB-92	31:05	4451305	1.66	0.8546	52.6	52.6	0.0346	0.0346	105	M
PCB-90	31:39	14925182	1.60	0.9550	157.9	157.9	0.0310	0.0310	105	
PCB-101 (C90)	31:39	14925182	1.60	0.9550	157.9	157.9	0.0310	0.0310	105	
PCB-113 (C90)	31:39	14925182	1.60	0.9550	157.9	157.9	0.0310	0.0310	105	
PCB-83	32:14	8944011	1.58	0.8385	107.8	107.8	0.0353	0.0353	108	
PCB-99 (C83)	32:14	8944011	1.58	0.8385	107.8	107.8	0.0353	0.0353	108	
PCB-112	32:22	7234914	1.60	1.4111	51.8	51.8	0.0210	0.0210	104	
PCB-86	32:44	32783716	1.58	1.0473	316.4	316.4	0.0283	0.0283	105	M
PCB-87 (C86)	32:44	32783716	1.58	1.0473	316.4	316.4	0.0283	0.0283	105	M
PCB-97 (C86)	32:44	32783716	1.58	1.0473	316.4	316.4	0.0283	0.0283	105	M
PCB-109 (C86)	32:44	32783716	1.58	1.0473	316.4	316.4	0.0283	0.0283	105	M
PCB-119 (C86)	32:44	32783716	1.58	1.0473	316.4	316.4	0.0283	0.0283	105	M
PCB-125 (C86)	32:44	32783716	1.58	1.0473	316.4	316.4	0.0283	0.0283	105	M
PCB-85	33:28	16431446	1.58	1.0408	159.5	159.5	0.0284	0.0284	106	
PCB-116 (C85)	33:28	16431446	1.58	1.0408	159.5	159.5	0.0284	0.0284	106	
PCB-117 (C85)	33:28	16431446	1.58	1.0408	159.5	159.5	0.0284	0.0284	106	
PCB-110	33:39	12619392	1.58	1.1919	107.0	107.0	0.0248	0.0248	107	
PCB-115 (C110)	33:39	12619392	1.58	1.1919	107.0	107.0	0.0248	0.0248	107	
PCB-82	33:57	4402328	1.61	0.8303	53.6	53.6	0.0357	0.0357	107	
PCB-111	34:20	6444070	1.59	1.2125	53.7	53.7	0.0244	0.0244	107	
PCB-120	34:47	7749228	1.57	1.4762	53.0	53.0	0.0201	0.0201	106	
PCB-108	35:56	20565849	1.56	1.1405	97.0	97.0	0.4687	0.4687	96.96	
PCB-124 (C108)	35:56	20565849	1.56	1.1405	97.0	97.0	0.4687	0.4687	96.96	
PCB-107	36:10	11677851	1.58	1.2121	51.8	51.8	0.4410	0.4410	104	
PCB-123	36:18	9286082	1.59	1.0722	47.5	47.5	0.4915	0.4915	94.92	
PCB-106	36:25	10275881	1.56	1.0839	51.0	51.0	0.4932	0.4932	102	
PCB-118	36:37	11586630	1.56	1.2055	49.8	49.8	0.4299	0.4299	99.64	
PCB-122	36:59	9046086	1.57	0.9567	50.8	50.8	0.5588	0.5588	102	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:09	10383122	1.60	1.0842	51.0	51.0	0.4769	0.4769	102	
PCB-105	37:48	11213615	1.59	1.1879	52.7	52.7	0.4696	0.4696	105	
PCB-127	39:16	10774566	1.60	1.1394	50.8	50.8	0.4692	0.4692	102	
PCB-126	40:53	10662070	1.56	1.0976	51.8	51.8	0.5063	0.5063	104	
S Total Hexachlorobiphenyls					2074.5	2074.5	0.2159	0.2159		
D PCB-155L	31:24	9059740	1.24	1.0851	101.5	101.5	0.0182	0.0182	101	
\$ PCB-153L	38:28	6037248	1.29	0.9169	43.9	43.9	0.4201	0.4201	87.71	
* PCB-138L	39:42	11952247	1.28		100.0	100.0				
D PCB-167L	42:42	15021669	1.28	1.2572	100.0	100.0	0.3080	0.3080	99.97	
D PCB-156L	43:52	29473316	1.29	1.2106	203.7	203.7	0.3199	0.3199	102	
D PCB-157L (C156L)	43:52	29473316	1.29	1.2106	203.7	203.7	0.3199	0.3199	102	
D PCB-169L	47:05	15556393	1.29	1.2439	104.6	104.6	0.3113	0.3113	105	
PCB-155	31:25	4273015	1.28	0.9444	49.9	49.9	0.0213	0.0213	99.88	
PCB-152	31:39	4376427	1.26	0.9895	48.8	48.8	0.0203	0.0203	97.64	
PCB-150	31:48	4572331	1.27	1.0132	49.8	49.8	0.0198	0.0198	99.62	
PCB-136	32:10	4501872	1.28	1.0116	49.1	49.1	0.0199	0.0199	98.24	
PCB-145	32:28	4387163	1.25	0.9685	50.0	50.0	0.0208	0.0208	100	
PCB-148	33:57	3393749	1.27	0.7603	49.3	49.3	0.0265	0.0265	98.54	
PCB-135	34:33	6697127	1.24	0.7256	101.9	101.9	0.0277	0.0277	102	M
PCB-151 (C135)	34:33	6697127	1.24	0.7256	101.9	101.9	0.0277	0.0277	102	M
PCB-154	34:48	3704167	1.25	0.8129	50.3	50.3	0.0247	0.0247	101	
PCB-144	35:07	3528656	1.28	0.7852	49.6	49.6	0.0256	0.0256	99.20	
PCB-147	35:29	13434620	1.28	0.8950	100.0	100.0	0.3080	0.3080	99.99	
PCB-149 (C147)	35:29	13434620	1.28	0.8950	100.0	100.0	0.3080	0.3080	99.99	
PCB-134	35:47	11537011	1.26	0.7967	96.5	96.5	0.3460	0.3460	96.46	
PCB-143 (C134)	35:47	11537011	1.26	0.7967	96.5	96.5	0.3460	0.3460	96.46	
PCB-139	36:04	12507109	1.26	0.8769	95.0	95.0	0.3144	0.3144	95.01	
PCB-140 (C139)	36:04	12507109	1.26	0.8769	95.0	95.0	0.3144	0.3144	95.01	
PCB-131	36:17	5384141	1.26	0.7503	47.8	47.8	0.3674	0.3674	95.60	
PCB-142	36:25	5675864	1.27	0.7507	50.4	50.4	0.3672	0.3672	101	
PCB-132	36:45	5351930	1.27	0.7489	47.6	47.6	0.3681	0.3681	95.20	
PCB-133	37:14	5875586	1.28	0.8096	48.3	48.3	0.3405	0.3405	96.69	
PCB-165	37:38	7550650	1.26	1.0247	49.1	49.1	0.2690	0.2690	98.16	
PCB-146	37:52	7093959	1.25	0.9637	49.0	49.0	0.2860	0.2860	98.07	
PCB-161	38:00	8196091	1.29	1.1288	48.4	48.4	0.2442	0.2442	96.73	
PCB-153	38:31	16400665	1.26	1.0938	99.9	99.9	0.2520	0.2520	99.88	
PCB-168 (C153)	38:31	16400665	1.26	1.0938	99.9	99.9	0.2520	0.2520	99.88	
PCB-141	38:41	6185024	1.25	0.8755	47.1	47.1	0.3148	0.3148	94.11	
PCB-130	39:06	5174351	1.25	0.7051	48.9	48.9	0.3909	0.3909	97.76	
PCB-137	39:19	5723383	1.26	0.7767	49.1	49.1	0.3549	0.3549	98.17	
PCB-164	39:27	8154792	1.27	1.0382	52.3	52.3	0.2655	0.2655	105	
PCB-129	39:45	28051473	1.27	0.9464	197.4	197.4	0.2913	0.2913	98.72	M
PCB-138 (C129)	39:45	28051473	1.27	0.9464	197.4	197.4	0.2913	0.2913	98.72	M
PCB-160 (C129)	39:45	28051473	1.27	0.9464	197.4	197.4	0.2913	0.2913	98.72	M
PCB-163 (C129)	39:45	28051473	1.27	0.9464	197.4	197.4	0.2913	0.2913	98.72	M
PCB-158	40:07	9518094	1.26	1.3110	48.4	48.4	0.2103	0.2103	96.72	
PCB-128	40:58	14759718	1.26	0.9829	100.0	100.0	0.2804	0.2804	100	
PCB-166 (C128)	40:58	14759718	1.26	0.9829	100.0	100.0	0.2804	0.2804	100	
PCB-159	41:58	10174975	1.27	1.3856	48.9	48.9	0.1989	0.1989	97.83	
PCB-162	42:15	9149058	1.25	1.2571	48.5	48.5	0.2193	0.2193	96.96	
PCB-167	42:44	8429636	1.26	1.1159	50.3	50.3	0.2031	0.2031	101	
PCB-156	43:54	16734948	1.24	1.1104	102.3	102.3	0.3118	0.3118	102	
PCB-157 (C156)	43:54	16734948	1.24	1.1104	102.3	102.3	0.3118	0.3118	102	
PCB-169	47:06	9173043	1.27	1.1628	50.7	50.7	0.1990	0.1990	101	
S Total Heptachlorobiphenyls					1237.9	1237.9	0.0187	0.0187		
D PCB-188L	37:06	11420624	1.06	1.3133	95.9	95.9	0.006921	0.006921	95.93	
\$ PCB-178L	40:10	4160357	1.06	1.0313	44.5	44.5	0.008813	0.008813	89.01	
* PCB-180L	45:14	9064486	1.06		100.0	100.0				
D PCB-170L	46:30	7761587	1.08	0.8362	102.4	102.4	0.0109	0.0109	102	
D PCB-189L	49:37	21919001	1.06	1.4414	114.8	114.8	0.3749	0.3749	115	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-188	37:08	6689789	1.06	1.1350	51.6	51.6	0.008569	0.008569	103	
PCB-179	37:29	6687081	1.06	1.4276	48.8	48.8	0.008258	0.008258	97.68	
PCB-184	37:59	6613589	1.05	1.3672	50.4	50.4	0.008623	0.008623	101	
PCB-176	38:22	6028960	1.04	1.2331	51.0	51.0	0.009561	0.009561	102	
PCB-186	38:49	7198259	1.04	1.4737	50.9	50.9	0.008000	0.008000	102	
PCB-178	40:12	4393811	1.06	0.8946	51.2	51.2	0.0132	0.0132	102	
PCB-175	40:49	4806487	1.06	0.9524	52.6	52.6	0.0124	0.0124	105	
PCB-187	41:05	5567999	1.07	1.1018	52.7	52.7	0.0107	0.0107	105	
PCB-182	41:17	4740455	1.09	0.9247	53.4	53.4	0.0127	0.0127	107	
PCB-183	41:41	9157750	1.05	0.9825	97.2	97.2	0.0120	0.0120	97.18	M
PCB-185 (C183)	41:41	9157750	1.05	0.9825	97.2	97.2	0.0120	0.0120	97.18	M
PCB-174	41:57	4841362	1.09	0.9642	52.4	52.4	0.0122	0.0122	105	
PCB-177	42:23	4848571	1.05	0.9773	51.7	51.7	0.0121	0.0121	103	
PCB-181	42:46	4640559	1.05	0.9505	50.9	50.9	0.0124	0.0124	102	
PCB-171	42:59	8817059	1.06	0.9336	98.5	98.5	0.0126	0.0126	98.46	
PCB-173 (C171)	42:59	8817059	1.06	0.9336	98.5	98.5	0.0126	0.0126	98.46	
PCB-172	44:37	4304274	1.05	0.8519	52.7	52.7	0.0138	0.0138	105	
PCB-192	44:54	7026375	1.06	1.3459	54.4	54.4	0.008760	0.008760	109	
PCB-180	45:14	11890309	1.07	1.1676	106.2	106.2	0.0101	0.0101	106	
PCB-193 (C180)	45:14	11890309	1.07	1.1676	106.2	106.2	0.0101	0.0101	106	
PCB-191	45:37	6721426	1.05	1.2891	54.4	54.4	0.009145	0.009145	109	
PCB-170	46:31	4570124	1.06	1.1865	49.6	49.6	0.0126	0.0126	99.25	M
PCB-190	47:02	7019878	1.07	1.3322	54.9	54.9	0.008849	0.008849	110	
PCB-189	49:37	11036086	1.05	0.9633	52.3	52.3	0.1757	0.1757	105	
S Total Octachlorobiphenyls					629.8	629.8	0.1267	0.1267		
D PCB-202L	42:29	8258793	0.89	0.9818	92.8	92.8	0.0225	0.0225	92.80	
* PCB-194L	51:43	13241212	0.91		100.0	100.0				
D PCB-205L	52:11	16280023	0.93	1.1786	104.3	104.3	0.0377	0.0377	104	
PCB-202	42:30	4472035	0.91	1.0359	52.3	52.3	0.0257	0.0257	105	
PCB-201	43:25	4199357	0.90	0.9754	52.1	52.1	0.0273	0.0273	104	
PCB-204	44:05	4432258	0.91	1.0485	51.2	51.2	0.0254	0.0254	102	
PCB-197	44:18	4740793	0.91	1.1458	50.1	50.1	0.0233	0.0233	100	
PCB-200	44:26	4467712	0.92	1.0072	53.7	53.7	0.0265	0.0265	107	
PCB-198	47:12	7600702	0.90	0.8698	105.8	105.8	0.0306	0.0306	106	
PCB-199 (C198)	47:12	7600702	0.90	0.8698	105.8	105.8	0.0306	0.0306	106	
PCB-196	47:53	3476208	0.92	0.7806	53.9	53.9	0.0341	0.0341	108	
PCB-203	48:04	4204902	0.90	0.9292	54.8	54.8	0.0287	0.0287	110	
PCB-195	49:24	7218111	0.90	0.8263	53.7	53.7	0.4492	0.4492	107	
PCB-194	51:44	7931786	0.89	0.9735	50.0	50.0	0.3813	0.3813	100	
PCB-205	52:12	9234381	0.91	1.0878	52.1	52.1	0.3413	0.3413	104	
S Total Nonachlorobiphenyls					146.8	146.8	0.4879	0.4879		
D PCB-208L	49:08	12836777	0.80	0.9576	101.2	101.2	0.1138	0.1138	101	
D PCB-206L	53:56	9326019	0.81	0.6947	101.4	101.4	0.1568	0.1568	101	
PCB-208	49:09	7322734	0.79	1.1374	50.2	50.2	0.4622	0.4622	100	
PCB-207	50:05	7521678	0.79	1.3756	49.3	49.3	0.4469	0.4469	98.69	
PCB-206	53:58	5890583	0.78	1.3346	47.3	47.3	0.5545	0.5545	94.66	
D PCB-209L	55:33	9095537	0.72	0.6669	103.0	103.0	0.0246	0.0246	103	
DCB Decachlorobiphenyl	55:35	5069414	0.71	1.1004	50.7	50.7	0.0147	0.0147	101	
S Polychlorinated biphenyls, Total					10576	10576	0.1498	0.1498		

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

61CV1668CS3\_00018

Amount Added: 20.00

Units: uL



Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Lims ID: WDMCCV  
Client ID:  
Sample Type: WDMCCV  
Inject. Date: 27-Jun-2024 22:00:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub2  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 27-Jun-2024 23:21:19 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1639

First Level Reviewer: Q9DB

Date: 27-Jun-2024 23:21:19

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:42	11:42	0	0.728	18771855	7324484	2641	6602	2773		
202.0766	11:42	11:42	0	0.728	5910427	2272239	949	2372	2394	3.18(2.66-3.60)	
PCB-3L											
200.0795	13:50	13:50	0	0.862	18921404	6290682	2641	6602	2382		
202.0766	13:50	13:50	0	0.862	5775055	1939440	949	2372	2044	3.28(2.66-3.60)	
PCB-1											
188.0393	11:42	11:42	0	1.000	12286995	4725606	3872	9680	1220		
190.0363	11:42	11:42	0	1.000	3833091	1482017	1134	2835	1307	3.21(2.66-3.60)	
PCB-2											
188.0393	13:41	13:41	0	0.989	11815931	4126217	3872	9680	1066		
190.0363	13:41	13:41	0	0.989	3724557	1278824	1134	2835	1128	3.17(2.66-3.60)	
PCB-3											
188.0393	13:51	13:51	0	1.001	12146395	4018159	3872	9680	1038		
190.0363	13:51	13:51	0	1.001	3872654	1289246	1134	2835	1137	3.14(2.66-3.60)	
PCB-4L											
234.0406	14:06	14:06	0	0.878	5366141	1791141	307	767	5834		
236.0376	14:06	14:06	0	0.878	3314954	1121719	113	282	9927	1.62(1.33-1.79)	
PCB-9L											
234.0406	16:04	16:04	0		8418646	2473481	307	767	8057		
236.0376	16:04	16:04	0		5262541	1551600	113	282	13731	1.60(1.33-1.79)	
PCB-8L											
234.0406	16:54	16:54	0	1.199	4058331	1120060	307	767	3648		
236.0376	16:54	16:54	0	1.199	2484151	690965	113	282	6115	1.63(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:58	19:58	0	1.244	8668527	2106297	307	767	6861		
236.0376	19:58	19:58	0	1.244	5383160	1290188	113	282	11418	1.61(1.33-1.79)	
PCB-4											
222.0003	14:07	14:07	0	1.001	3662092	1219489	205	512	5949		
223.9974	14:07	14:07	0	1.001	2298655	759679	220	550	3453	1.59(1.33-1.79)	
PCB-10											
222.0003	14:17	14:17	0	1.013	5180264	1715022	205	512	8366		
223.9974	14:17	14:17	0	1.013	3217776	1072279	220	550	4874	1.61(1.33-1.79)	
PCB-9											
222.0003	16:04	16:04	0	1.140	5565591	1670680	205	512	8150		
223.9974	16:04	16:04	0	1.140	3468680	1050654	220	550	4776	1.60(1.33-1.79)	
PCB-7											
222.0003	16:15	16:15	0	1.152	5407942	1505797	205	512	7345		
223.9974	16:14	16:15	-1	1.151	3351155	923124	220	550	4196	1.61(1.33-1.79)	
PCB-6											
222.0003	16:29	16:29	0	1.169	5755872	1588936	205	512	7751		
223.9974	16:29	16:29	0	1.169	3585235	1002725	220	550	4558	1.61(1.33-1.79)	
PCB-5											
222.0003	16:48	16:48	0	1.191	5109451	1447065	205	512	7059		
223.9974	16:48	16:48	0	1.191	3143149	891883	220	550	4054	1.63(1.33-1.79)	
PCB-8											
222.0003	16:55	16:55	0	1.199	6141318	1670876	205	512	8151		
223.9974	16:55	16:55	0	1.199	3791303	1033319	220	550	4697	1.62(1.33-1.79)	
PCB-14											
222.0003	18:32	18:32	0	0.928	5278524	1339168	205	512	6533		
223.9974	18:32	18:32	0	0.928	3217146	811492	220	550	3689	1.64(1.33-1.79)	
PCB-11											
222.0003	19:22	19:22	0	0.970	4900453	1204970	205	512	5878		
223.9974	19:22	19:22	0	0.970	3007379	739804	220	550	3363	1.63(1.33-1.79)	
PCB-12											
222.0003	19:40	19:40	0	0.985	10067930	1679725	205	512	8194		
223.9974	19:40	19:40	0	0.985	6293522	1041201	220	550	4733	1.60(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:40	19:40	0	0.985	10067930	1679725	205	512	8194		
223.9974	19:40	19:40	0	0.985	6293522	1041201	220	550	4733	1.60(1.33-1.79)	
PCB-15											
222.0003	19:59	19:59	0	1.001	6179035	1420431	205	512	6929		
223.9974	19:59	19:59	0	1.001	3722996	875704	220	550	3980	1.66(1.33-1.79)	
PCB-19L											
268.0016	17:12	17:12	0	0.841	2753129	799449	510	1275	1568		
269.9986	17:12	17:12	0	0.841	2605154	738563	244	610	3027	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:27	20:27	0		4754286	1149143	510	1275	2253		
269.9986	20:27	20:27	0		4146858	1017415	244	610	4170	1.15(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:42	22:42	0		14231715	3346890	1223	3057	2737		
269.9986	22:41	22:42	-1		13332214	3134428	1491	3727	2102	1.07(0.88-1.20)	
PCB-28L											
268.0016	22:59	22:59	0	1.012	6896185	1562831	1223	3057	1278		
269.9986	22:59	22:59	0	1.012	6546246	1498175	1491	3727	1005	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:59	26:59	0	1.189	12349228	2571561	1223	3057	2103		
269.9986	26:59	26:59	0	1.189	11552801	2404967	1491	3727	1613	1.07(0.88-1.20)	
PCB-19											
255.9613	17:13	17:13	0	1.001	1863700	507109	122	305	4157		
257.9584	17:13	17:13	0	1.001	1732764	487364	46	115	10595	1.08(0.88-1.20)	
PCB-18											
255.9613	19:02	19:02	0	1.106	5078612	885427	122	305	7258		
257.9584	19:02	19:02	0	1.106	4855979	842275	46	115	18310	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:02	19:02	0	1.106	5078612	885427	122	305	7258		
257.9584	19:02	19:02	0	1.106	4855979	842275	46	115	18310	1.05(0.88-1.20)	
PCB-17											
255.9613	19:29	19:29	0	1.133	1760563	462400	122	305	3790		
257.9584	19:29	19:29	0	1.133	1679189	429420	46	115	9335	1.05(0.88-1.20)	
PCB-27											
255.9613	19:43	19:43	0	1.146	2658968	693542	122	305	5685		
257.9584	19:43	19:43	0	1.146	2542851	657168	46	115	14286	1.05(0.88-1.20)	
PCB-24											
255.9613	19:50	19:50	0	1.153	2493236	649605	122	305	5325		
257.9584	19:50	19:50	0	1.153	2365859	611866	46	115	13301	1.05(0.88-1.20)	
PCB-16											
255.9613	19:58	19:58	0	1.160	1749420	417008	122	305	3418		
257.9584	19:57	19:58	-1	1.160	1621510	392375	46	115	8530	1.08(0.88-1.20)	
PCB-32											
255.9613	20:28	20:28	0	1.189	2769107	681527	122	305	5586		
257.9584	20:28	20:28	0	1.189	2633591	656843	46	115	14279	1.05(0.88-1.20)	
PCB-34											
255.9613	21:43	21:43	0	1.263	6993635	1705253	3895	9737	438		
257.9584	21:43	21:43	0	1.263	6620253	1634125	4356	10890	375	1.06(0.88-1.20)	
PCB-23											
255.9613	21:51	21:51	0	1.271	6858898	1648436	3895	9737	423		
257.9584	21:51	21:51	0	1.271	6409945	1534463	4356	10890	352	1.07(0.88-1.20)	
PCB-26											
255.9613	22:11	22:11	0	1.289	13914483	3100798	3895	9737	796		
257.9584	22:11	22:11	0	1.289	13285390	2963567	4356	10890	680	1.05(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:11	22:11	0	1.289	13914483	3100798	3895	9737	796		
257.9584	22:11	22:11	0	1.289	13285390	2963567	4356	10890	680	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:24	22:24	0	0.830	8101501	1777465	3895	9737	456		
257.9584	22:24	22:24	0	0.830	7708054	1695431	4356	10890	389	1.05(0.88-1.20)	
PCB-31											
255.9613	22:43	22:43	0	0.842	7276007	1706920	3895	9737	438		
257.9584	22:43	22:43	0	0.842	6879167	1622627	4356	10890	373	1.06(0.88-1.20)	
PCB-20											
255.9613	23:01	23:01	0	0.853	14366336	2538487	3895	9737	652		
257.9584	23:01	23:01	0	0.853	13723191	2427207	4356	10890	557	1.05(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:01	23:01	0	0.853	14366336	2538487	3895	9737	652		
257.9584	23:01	23:01	0	0.853	13723191	2427207	4356	10890	557	1.05(0.88-1.20)	
PCB-21											
255.9613	23:15	23:15	0	0.862	13684353	1653337	3895	9737	424		M
257.9584	23:11	23:15	-4	0.859	12971052	1575634	4356	10890	362	1.05(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:15	23:15	0	0.862	13684353	1653337	3895	9737	424		M
257.9584	23:11	23:15	-4	0.859	12971052	1575634	4356	10890	362	1.05(0.88-1.20)	M
PCB-22											
255.9613	23:39	23:39	0	0.876	7588533	1704619	3895	9737	438		
257.9584	23:39	23:39	0	0.876	7105191	1617862	4356	10890	371	1.07(0.88-1.20)	
PCB-36											
255.9613	25:11	25:11	0	0.934	6648343	1417575	3895	9737	364		
257.9584	25:11	25:11	0	0.934	6291614	1344735	4356	10890	309	1.06(0.88-1.20)	
PCB-39											
255.9613	25:33	25:33	0	0.947	7110569	1520601	3895	9737	390		
257.9584	25:33	25:33	0	0.947	6742771	1467592	4356	10890	337	1.05(0.88-1.20)	
PCB-38											
255.9613	26:07	26:07	0	0.968	6603311	1424769	3895	9737	366		
257.9584	26:07	26:07	0	0.968	6255594	1342155	4356	10890	308	1.06(0.88-1.20)	
PCB-35											
255.9613	26:36	26:36	0	0.986	6929750	1455567	3895	9737	374		
257.9584	26:36	26:36	0	0.986	6714390	1394728	4356	10890	320	1.03(0.88-1.20)	
PCB-37											
255.9613	27:00	27:00	0	1.001	6902192	1442902	3895	9737	370		
257.9584	27:00	27:00	0	1.001	6643854	1353177	4356	10890	311	1.04(0.88-1.20)	
PCB-54L											
301.9626	20:16	20:16	0	0.817	2344227	605277	37	92	16359		
303.9597	20:16	20:16	0	0.817	2926047	752303	28	70	26868	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:49	24:49	0		5671033	1297261	1817	4542	714		
303.9597	24:49	24:49	0		7108738	1623502	2136	5340	760	0.80(0.65-0.89)	
PCB-79L											
301.9626	32:43	32:43	0	0.970	3553193	711247	1817	4542	391		
303.9597	32:43	32:43	0	0.970	4467424	917579	2136	5340	430	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:43	33:43	0	1.358	7186074	1435305	1817	4542	790		
303.9597	33:43	33:43	0	1.358	8814456	1782117	2136	5340	834	0.82(0.65-0.89)	
PCB-77L											
301.9626	34:17	34:17	0	1.381	7559589	1472477	1817	4542	810		
303.9597	34:17	34:17	0	1.381	9263008	1809618	2136	5340	847	0.82(0.65-0.89)	
PCB-54											
289.9224	20:18	20:18	0	1.000	1454677	366145	60	150	6102		
291.9194	20:18	20:18	0	1.000	1829993	456419	79	197	5777	0.79(0.65-0.89)	
PCB-50											
289.9224	22:27	22:27	0	1.108	6203446	1397703	215	537	6501		
291.9194	22:27	22:27	0	1.108	7766206	1744401	354	885	4928	0.80(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:27	22:27	0	1.108	6203446	1397703	215	537	6501		
291.9194	22:27	22:27	0	1.108	7766206	1744401	354	885	4928	0.80(0.65-0.89)	
PCB-45											
289.9224	23:11	23:11	0	1.144	6169096	806558	215	537	3751		
291.9194	23:11	23:11	0	1.144	7665547	997165	354	885	2817	0.80(0.65-0.89)	
PCB-51 (C45)											
289.9224	23:11	23:11	0	1.144	6169096	806558	215	537	3751		
291.9194	23:11	23:11	0	1.144	7665547	997165	354	885	2817	0.80(0.65-0.89)	
PCB-46											
289.9224	23:26	23:26	0	1.156	2688884	605064	215	537	2814		
291.9194	23:26	23:26	-1	1.156	3358832	736839	354	885	2081	0.80(0.65-0.89)	
PCB-52											
289.9224	24:51	24:51	0	1.226	3574786	810789	215	537	3771		
291.9194	24:51	24:51	0	1.226	4506867	1032315	354	885	2916	0.79(0.65-0.89)	
PCB-43											
289.9224	24:59	24:59	0	1.232	7711898	1023753	215	537	4762		M
291.9194	24:59	24:59	0	1.232	9742091	1288115	354	885	3639	0.79(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:59	24:59	0	1.232	7711898	1023753	215	537	4762		M
291.9194	24:59	24:59	0	1.232	9742091	1288115	354	885	3639	0.79(0.65-0.89)	M
PCB-49											
289.9224	25:16	25:16	0	1.246	7894467	1118714	215	537	5203		
291.9194	25:16	25:16	0	1.246	9835626	1389583	354	885	3925	0.80(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:16	25:16	0	1.246	7894467	1118714	215	537	5203		
291.9194	25:16	25:16	0	1.246	9835626	1389583	354	885	3925	0.80(0.65-0.89)	
PCB-48											
289.9224	25:36	25:36	0	1.263	3105498	683693	215	537	3180		
291.9194	25:36	25:36	0	1.263	3940664	869570	354	885	2456	0.79(0.65-0.89)	
PCB-44											
289.9224	25:51	25:51	0	1.275	10516354	2022750	215	537	9408		
291.9194	25:51	25:51	0	1.275	13158688	2524878	354	885	7132	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:51	25:51	0	1.275	10516354	2022750	215	537	9408		
291.9194	25:51	25:51	0	1.275	13158688	2524878	354	885	7132	0.80(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:51	25:51	0	1.275	10516354	2022750	215	537	9408		
291.9194	25:51	25:51	0	1.275	13158688	2524878	354	885	7132	0.80(0.65-0.89)	
PCB-59											
289.9224	26:10	26:10	0	1.291	12636293	1871225	215	537	8703		
291.9194	26:10	26:10	0	1.291	15743667	2351123	354	885	6642	0.80(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:10	26:10	0	1.291	12636293	1871225	215	537	8703		
291.9194	26:10	26:10	0	1.291	15743667	2351123	354	885	6642	0.80(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:10	26:10	0	1.291	12636293	1871225	215	537	8703		
291.9194	26:10	26:10	0	1.291	15743667	2351123	354	885	6642	0.80(0.65-0.89)	
PCB-42											
289.9224	26:21	26:21	0	1.300	3195218	675305	215	537	3141		
291.9194	26:21	26:21	0	1.300	4018501	836643	354	885	2363	0.80(0.65-0.89)	
PCB-40											
289.9224	26:51	26:51	0	1.325	9776555	1538439	215	537	7156		
291.9194	26:51	26:51	0	1.325	12159138	1924911	354	885	5438	0.80(0.65-0.89)	
PCB-41 (C40)											
289.9224	26:51	26:51	0	1.325	9776555	1538439	215	537	7156		
291.9194	26:51	26:51	0	1.325	12159138	1924911	354	885	5438	0.80(0.65-0.89)	
PCB-71 (C40)											
289.9224	26:51	26:51	0	1.325	9776555	1538439	215	537	7156		
291.9194	26:51	26:51	0	1.325	12159138	1924911	354	885	5438	0.80(0.65-0.89)	
PCB-64											
289.9224	27:04	27:04	0	1.335	4361959	925391	215	537	4304		
291.9194	27:04	27:04	0	1.335	5521986	1182257	354	885	3340	0.79(0.65-0.89)	
PCB-72											
289.9224	27:53	27:53	0	0.827	4130874	878352	215	537	4085		
291.9194	27:53	27:53	0	0.827	5186742	1099699	354	885	3106	0.80(0.65-0.89)	
PCB-68											
289.9224	28:11	28:11	0	0.836	4666101	964341	215	537	4485		
291.9194	28:11	28:11	0	0.836	6026857	1220191	354	885	3447	0.77(0.65-0.89)	
PCB-57											
289.9224	28:36	28:36	0	0.848	4135006	880282	215	537	4094		
291.9194	28:35	28:36	-1	0.848	5183464	1108219	354	885	3131	0.80(0.65-0.89)	
PCB-58											
289.9224	28:51	28:51	0	0.856	5251740	1086139	215	537	5052		
291.9194	28:51	28:51	0	0.856	6578176	1357770	354	885	3836	0.80(0.65-0.89)	
PCB-67											
289.9224	29:00	29:00	0	0.860	5169674	1054343	215	537	4904		
291.9194	29:00	29:00	0	0.860	6503896	1326529	354	885	3747	0.79(0.65-0.89)	

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	Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-63											
	289.9224	29:16	29:16	0	0.868	4182388	852455	215	537	3965		
	291.9194	29:16	29:16	0	0.868	5262751	1076214	354	885	3040	0.79(0.65-0.89)	
	PCB-61											
	289.9224	29:37	29:37	0	0.878	18405997	2164001	215	537	10065		
	291.9194	29:37	29:37	0	0.878	23226620	2731273	354	885	7715	0.79(0.65-0.89)	
	PCB-70 (C61)											
	289.9224	29:37	29:37	0	0.878	18405997	2164001	215	537	10065		
	291.9194	29:37	29:37	0	0.878	23226620	2731273	354	885	7715	0.79(0.65-0.89)	
	PCB-74 (C61)											
	289.9224	29:37	29:37	0	0.878	18405997	2164001	215	537	10065		
	291.9194	29:37	29:37	0	0.878	23226620	2731273	354	885	7715	0.79(0.65-0.89)	
	PCB-76 (C61)											
	289.9224	29:37	29:37	0	0.878	18405997	2164001	215	537	10065		
	291.9194	29:37	29:37	0	0.878	23226620	2731273	354	885	7715	0.79(0.65-0.89)	
	PCB-66											
	289.9224	29:56	29:56	0	0.888	4856396	978410	215	537	4551		
	291.9194	29:56	29:56	0	0.888	6078225	1224194	354	885	3458	0.80(0.65-0.89)	
	PCB-55											
	289.9224	30:06	30:06	0	0.893	5038056	1036313	215	537	4820		
	291.9194	30:06	30:06	0	0.893	6291501	1289022	354	885	3641	0.80(0.65-0.89)	
	PCB-56											
	289.9224	30:37	30:37	0	0.908	4608677	935656	215	537	4352		
	291.9194	30:37	30:37	0	0.908	5776060	1165858	354	885	3293	0.80(0.65-0.89)	
	PCB-60											
	289.9224	30:49	30:49	0	0.914	4254469	863085	215	537	4014		
	291.9194	30:49	30:49	0	0.914	5372811	1073240	354	885	3032	0.79(0.65-0.89)	
	PCB-80											
	289.9224	31:13	31:13	0	0.926	5079408	1014080	215	537	4717		
	291.9194	31:13	31:13	0	0.926	6332894	1263930	354	885	3570	0.80(0.65-0.89)	
	PCB-79											
	289.9224	32:45	32:45	0	0.971	5203362	966225	215	537	4494		
	291.9194	32:44	32:45	-1	0.971	6456307	1181342	354	885	3337	0.81(0.65-0.89)	
	PCB-78											
	289.9224	33:18	33:18	0	0.987	4233742	857103	215	537	3987		
	291.9194	33:18	33:18	0	0.987	5365470	1071091	354	885	3026	0.79(0.65-0.89)	
	PCB-81											
	289.9224	33:44	33:44	0	1.000	3935335	755707	215	537	3515		
	291.9194	33:44	33:44	0	1.000	4942792	937280	354	885	2648	0.80(0.65-0.89)	
	PCB-77											
	289.9224	34:18	34:18	0	1.001	4277037	821360	215	537	3820		
	291.9194	34:18	34:18	0	1.001	5412508	1050854	354	885	2969	0.79(0.65-0.89)	
	PCB-104L											
	337.9207	25:45	25:45	0	0.814	6080202	1365580	92	230	14843		
	339.9178	25:45	25:45	0	0.814	3814909	864039	76	190	11369	1.59(1.32-1.78)	</



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:44	28:44	0	1.116	2182359	455466	92	230	4951		
339.9178	28:43	28:44	-1	1.115	1306062	267688	76	190	3522	1.67(1.32-1.78)	
PCB-101L											
337.9207	31:39	31:39	0		5075282	1077865	92	230	11716		
339.9178	31:39	31:39	0		3150790	667276	76	190	8780	1.61(1.32-1.78)	
PCB-111L											
337.9207	34:18	34:18	0	1.084	3290436	662816	92	230	7205		
339.9178	34:18	34:18	0	1.084	2028522	415667	76	190	5469	1.62(1.32-1.78)	
PCB-123L											
337.9207	36:16	36:16	0	1.146	11243489	2308341	7325	18312	315		
339.9178	36:16	36:16	0	1.146	7005015	1420382	4140	10350	343	1.61(1.32-1.78)	
PCB-118L											
337.9207	36:36	36:36	0	1.156	11913306	2336243	7325	18312	319		
339.9178	36:36	36:36	0	1.156	7378603	1455760	4140	10350	352	1.61(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:07	0	1.173	11619251	2360262	7325	18312	322		
339.9178	37:07	37:07	0	1.173	7160834	1440582	4140	10350	348	1.62(1.32-1.78)	
PCB-105L											
337.9207	37:47	37:47	0	1.194	11057622	2168954	7325	18312	296		
339.9178	37:47	37:47	0	1.194	6862925	1353873	4140	10350	327	1.61(1.32-1.78)	
PCB-127L											
337.9207	39:14	39:14	0		11650644	2266393	7325	18312	309		
339.9178	39:14	39:14	0		7198763	1411117	4140	10350	341	1.62(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:51	0	1.291	11581287	2174539	7325	18312	297		
339.9178	40:51	40:51	0	1.291	7167846	1361951	4140	10350	329	1.62(1.32-1.78)	
PCB-104											
325.8804	25:47	25:47	0	1.001	3252739	722311	138	345	5234		
327.8775	25:47	25:47	0	1.001	2057660	463164	126	315	3676	1.58(1.32-1.78)	
PCB-96											
325.8804	26:10	26:10	0	1.016	3389622	759977	138	345	5507		
327.8775	26:10	26:10	0	1.016	2125368	464377	126	315	3686	1.59(1.32-1.78)	
PCB-103											
325.8804	28:04	28:04	0	1.090	2874110	623698	138	345	4520		
327.8775	28:04	28:04	0	1.090	1761414	387484	126	315	3075	1.63(1.32-1.78)	
PCB-94											
325.8804	28:18	28:18	0	1.099	2412578	506107	138	345	3667		
327.8775	28:18	28:18	0	1.099	1491740	315162	126	315	2501	1.62(1.32-1.78)	
PCB-95											
325.8804	28:45	28:45	0	1.116	2562406	557387	138	345	4039		
327.8775	28:45	28:45	0	1.116	1638202	357354	126	315	2836	1.56(1.32-1.78)	
PCB-93											
325.8804	28:57	28:57	0	1.124	5394945	1006666	138	345	7295		
327.8775	28:57	28:57	0	1.124	3359674	623791	126	315	4951	1.61(1.32-1.78)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:57	28:57	0	1.124	5394945	1006666	138	345	7295		
327.8775	28:57	28:57	0	1.124	3359674	623791	126	315	4951	1.61(1.32-1.78)	
PCB-98											
325.8804	29:06	29:06	0	1.130	5350168	669407	138	345	4851		
327.8775	29:06	29:06	0	1.130	3312721	401864	126	315	3189	1.62(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:06	29:06	0	1.130	5350168	669407	138	345	4851		
327.8775	29:06	29:06	0	1.130	3312721	401864	126	315	3189	1.62(1.32-1.78)	
PCB-88											
325.8804	29:36	29:36	0	1.149	5248195	566305	138	345	4104		
327.8775	29:36	29:36	0	1.149	3265150	361534	126	315	2869	1.61(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:36	29:36	0	1.149	5248195	566305	138	345	4104		
327.8775	29:36	29:36	0	1.149	3265150	361534	126	315	2869	1.61(1.32-1.78)	
PCB-84											
325.8804	29:51	29:51	0	1.159	2391244	497777	138	345	3607		
327.8775	29:50	29:51	-1	1.158	1461941	304446	126	315	2416	1.64(1.32-1.78)	
PCB-89											
325.8804	30:18	30:18	0	1.177	2458533	513942	138	345	3724		
327.8775	30:19	30:18	1	1.177	1555045	316908	126	315	2515	1.58(1.32-1.78)	
PCB-121											
325.8804	30:42	30:42	0	1.192	4232925	903038	138	345	6544		M
327.8775	30:42	30:42	0	1.192	2628532	551568	126	315	4378	1.61(1.32-1.78)	M
PCB-92											
325.8804	31:05	31:05	0	0.857	2778507	581723	138	345	4215		M
327.8775	31:05	31:05	0	0.857	1672798	353131	126	315	2803	1.66(1.32-1.78)	M
PCB-90											
325.8804	31:39	31:39	0	1.229	9179634	1369673	138	345	9925		
327.8775	31:39	31:39	0	1.229	5745548	862373	126	315	6844	1.60(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:39	31:39	0	1.229	9179634	1369673	138	345	9925		
327.8775	31:39	31:39	0	1.229	5745548	862373	126	315	6844	1.60(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:39	31:39	0	1.229	9179634	1369673	138	345	9925		
327.8775	31:39	31:39	0	1.229	5745548	862373	126	315	6844	1.60(1.32-1.78)	
PCB-83											
325.8804	32:14	32:14	0	1.252	5475124	701786	138	345	5085		
327.8775	32:14	32:14	0	1.252	3468887	443814	126	315	3522	1.58(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:14	32:14	0	1.252	5475124	701786	138	345	5085		
327.8775	32:14	32:14	0	1.252	3468887	443814	126	315	3522	1.58(1.32-1.78)	
PCB-112											
325.8804	32:22	32:22	0	1.257	4455576	892983	138	345	6471		
327.8775	32:22	32:22	0	1.257	2779338	562710	126	315	4466	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:44	32:44	0	1.271	20082468	2143767	138	345	15535		M
327.8775	32:44	32:44	0	1.271	12701248	1326439	126	315	10527	1.58(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:44	32:44	0	1.271	20082468	2143767	138	345	15535		M
327.8775	32:44	32:44	0	1.271	12701248	1326439	126	315	10527	1.58(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:44	32:44	0	1.271	20082468	2143767	138	345	15535		M
327.8775	32:44	32:44	0	1.271	12701248	1326439	126	315	10527	1.58(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:44	32:44	0	1.271	20082468	2143767	138	345	15535		M
327.8775	32:44	32:44	0	1.271	12701248	1326439	126	315	10527	1.58(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:44	32:44	0	1.271	20082468	2143767	138	345	15535		M
327.8775	32:44	32:44	0	1.271	12701248	1326439	126	315	10527	1.58(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:44	32:44	0	1.271	20082468	2143767	138	345	15535		M
327.8775	32:44	32:44	0	1.271	12701248	1326439	126	315	10527	1.58(1.32-1.78)	M
PCB-85											
325.8804	33:28	33:28	0	1.299	10073830	1184517	138	345	8583		
327.8775	33:27	33:28	-1	1.299	6357616	737542	126	315	5854	1.58(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:28	33:28	0	1.299	10073830	1184517	138	345	8583		
327.8775	33:27	33:28	-1	1.299	6357616	737542	126	315	5854	1.58(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:28	33:28	0	1.299	10073830	1184517	138	345	8583		
327.8775	33:27	33:28	-1	1.299	6357616	737542	126	315	5854	1.58(1.32-1.78)	
PCB-110											
325.8804	33:39	33:39	0	1.307	7737597	1014060	138	345	7348		
327.8775	33:40	33:39	1	1.307	4881795	632173	126	315	5017	1.58(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:39	33:39	0	1.307	7737597	1014060	138	345	7348		
327.8775	33:40	33:39	1	1.307	4881795	632173	126	315	5017	1.58(1.32-1.78)	
PCB-82											
325.8804	33:57	33:57	0	1.319	2714014	528012	138	345	3826		
327.8775	33:57	33:57	0	1.319	1688314	332987	126	315	2643	1.61(1.32-1.78)	
PCB-111											
325.8804	34:20	34:20	0	1.333	3960269	803582	138	345	5823		
327.8775	34:20	34:20	0	1.333	2483801	499965	126	315	3968	1.59(1.32-1.78)	
PCB-120											
325.8804	34:47	34:47	0	1.351	4730740	946694	138	345	6860		
327.8775	34:47	34:47	0	1.351	3018488	616633	126	315	4894	1.57(1.32-1.78)	
PCB-108											
325.8804	35:56	35:56	0	1.396	12540411	2454542	4483	11207	548		
327.8775	35:56	35:56	0	1.396	8025438	1579797	3378	8445	468	1.56(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:56	35:56	0	1.396	12540411	2454542	4483	11207	548		
327.8775	35:56	35:56	0	1.396	8025438	1579797	3378	8445	468	1.56(1.32-1.78)	
PCB-107											
325.8804	36:10	36:10	0	1.405	7158757	1313626	4483	11207	293		
327.8775	36:10	36:10	0	1.405	4519094	847307	3378	8445	251	1.58(1.32-1.78)	
PCB-123											
325.8804	36:18	36:18	0	1.001	5699912	1204964	4483	11207	269		
327.8775	36:18	36:18	0	1.001	3586170	769825	3378	8445	228	1.59(1.32-1.78)	
PCB-106											
325.8804	36:25	36:25	0	1.004	6257487	1219186	4483	11207	272		
327.8775	36:25	36:25	0	1.004	4018394	784824	3378	8445	232	1.56(1.32-1.78)	
PCB-118											
325.8804	36:37	36:37	0	1.001	7063529	1339951	4483	11207	299		
327.8775	36:37	36:37	0	1.001	4523101	851463	3378	8445	252	1.56(1.32-1.78)	
PCB-122											
325.8804	36:59	36:59	0	1.010	5523146	1087894	4483	11207	243		
327.8775	36:59	36:59	0	1.010	3522940	698979	3378	8445	207	1.57(1.32-1.78)	
PCB-114											
325.8804	37:09	37:09	0	1.001	6391005	1194387	4483	11207	266		
327.8775	37:09	37:09	0	1.001	3992117	735545	3378	8445	218	1.60(1.32-1.78)	
PCB-105											
325.8804	37:48	37:48	0	1.001	6886088	1278002	4483	11207	285		
327.8775	37:48	37:48	0	1.001	4327527	803878	3378	8445	238	1.59(1.32-1.78)	
PCB-127											
325.8804	39:16	39:16	0	1.039	6625383	1239199	4483	11207	276		
327.8775	39:16	39:16	0	1.039	4149183	772034	3378	8445	229	1.60(1.32-1.78)	
PCB-126											
325.8804	40:53	40:53	0	1.001	6494979	1139800	4483	11207	254		
327.8775	40:53	40:53	0	1.001	4167091	739940	3378	8445	219	1.56(1.32-1.78)	
PCB-155L											
371.8817	31:24	31:24	0	0.791	5021826	1030453	62	155	16620		
373.8788	31:23	31:24	-1	0.790	4037914	834113	76	190	10975	1.24(1.05-1.43)	
PCB-153L											
371.8817	38:28	38:28	0	0.901	3405104	680442	2251	5627	302		
373.8788	38:28	38:28	0	0.901	2632144	531700	1431	3577	372	1.29(1.05-1.43)	
PCB-138L											
371.8817	39:42	39:42	0		6708863	1331298	2251	5627	591		
373.8788	39:42	39:42	0		5243384	1045881	1431	3577	731	1.28(1.05-1.43)	
PCB-167L											
371.8817	42:42	42:42	0	1.075	8438168	1635846	2251	5627	727		
373.8788	42:42	42:42	0	1.075	6583501	1271007	1431	3577	888	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:52	43:52	0	1.105	16590745	2143565	2251	5627	952		
373.8788	43:51	43:52	-1	1.105	12882571	1660947	1431	3577	1161	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157L (C156L)											
371.8817	43:52	43:52	0	1.105	16590745	2143565	2251	5627	952		
373.8788	43:51	43:52	-1	1.105	12882571	1660947	1431	3577	1161	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	8750273	1598545	2251	5627	710		
373.8788	47:05	47:05	0	1.186	6806120	1248561	1431	3577	873	1.29(1.05-1.43)	
PCB-155											
359.8415	31:25	31:25	0	1.000	2394951	496501	77	192	6448		
361.8385	31:25	31:25	0	1.000	1878064	397335	73	182	5443	1.28(1.05-1.43)	
PCB-152											
359.8415	31:39	31:39	0	1.008	2436378	505249	77	192	6562		
361.8385	31:39	31:39	0	1.008	1940049	399073	73	182	5467	1.26(1.05-1.43)	
PCB-150											
359.8415	31:48	31:48	0	1.013	2561703	534770	77	192	6945		
361.8385	31:48	31:48	0	1.013	2010628	422373	73	182	5786	1.27(1.05-1.43)	
PCB-136											
359.8415	32:10	32:10	0	1.024	2524565	519221	77	192	6743		
361.8385	32:10	32:10	0	1.024	1977307	399231	73	182	5469	1.28(1.05-1.43)	
PCB-145											
359.8415	32:28	32:28	0	1.034	2440329	505418	77	192	6564		
361.8385	32:28	32:28	0	1.034	1946834	397005	73	182	5438	1.25(1.05-1.43)	
PCB-148											
359.8415	33:57	33:57	0	1.081	1897035	392979	77	192	5104		
361.8385	33:57	33:57	0	1.081	1496714	309455	73	182	4239	1.27(1.05-1.43)	
PCB-135											
359.8415	34:33	34:33	0	1.100	3703850	408906	77	192	5310		M
361.8385	34:33	34:33	0	1.100	2993277	332670	73	182	4557	1.24(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:33	34:33	0	1.100	3703850	408906	77	192	5310		M
361.8385	34:33	34:33	0	1.100	2993277	332670	73	182	4557	1.24(1.05-1.43)	M
PCB-154											
359.8415	34:48	34:48	0	1.108	2056635	417068	77	192	5416		
361.8385	34:48	34:48	0	1.108	1647532	331846	73	182	4546	1.25(1.05-1.43)	
PCB-144											
359.8415	35:07	35:07	0	1.118	1979403	394967	77	192	5129		
361.8385	35:06	35:07	-1	1.118	1549253	316014	73	182	4329	1.28(1.05-1.43)	
PCB-147											
359.8415	35:29	35:29	0	1.130	7549509	1491148	1477	3692	1010		
361.8385	35:29	35:29	0	1.130	5885111	1159062	1158	2895	1001	1.28(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:29	35:29	0	1.130	7549509	1491148	1477	3692	1010		
361.8385	35:29	35:29	0	1.130	5885111	1159062	1158	2895	1001	1.28(1.05-1.43)	
PCB-134											
359.8415	35:47	35:47	0	1.139	6442121	699917	1477	3692	474		
361.8385	35:47	35:47	0	1.139	5094890	555300	1158	2895	480	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											
359.8415	35:47	35:47	0	1.139	6442121	699917	1477	3692	474		
361.8385	35:47	35:47	0	1.139	5094890	555300	1158	2895	480	1.26(1.05-1.43)	
PCB-139											
359.8415	36:04	36:04	0	1.149	6962578	1244086	1477	3692	842		
361.8385	36:04	36:04	0	1.149	5544531	994742	1158	2895	859	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:04	36:04	0	1.149	6962578	1244086	1477	3692	842		
361.8385	36:04	36:04	0	1.149	5544531	994742	1158	2895	859	1.26(1.05-1.43)	
PCB-131											
359.8415	36:17	36:17	0	1.155	3001726	613868	1477	3692	416		
361.8385	36:17	36:17	0	1.155	2382415	490649	1158	2895	424	1.26(1.05-1.43)	
PCB-142											
359.8415	36:25	36:25	0	1.160	3173517	637453	1477	3692	432		
361.8385	36:25	36:25	0	1.160	2502347	492443	1158	2895	425	1.27(1.05-1.43)	
PCB-132											
359.8415	36:45	36:45	0	1.170	2991914	591595	1477	3692	401		
361.8385	36:45	36:45	0	1.170	2360016	478928	1158	2895	414	1.27(1.05-1.43)	
PCB-133											
359.8415	37:14	37:14	0	1.186	3301175	648672	1477	3692	439		
361.8385	37:14	37:14	0	1.186	2574411	505246	1158	2895	436	1.28(1.05-1.43)	
PCB-165											
359.8415	37:38	37:38	0	0.881	4210588	837727	1477	3692	567		
361.8385	37:37	37:38	-1	0.881	3340062	663365	1158	2895	573	1.26(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	0	0.887	3942369	783794	1477	3692	531		
361.8385	37:52	37:52	0	0.887	3151590	629703	1158	2895	544	1.25(1.05-1.43)	
PCB-161											
359.8415	38:00	38:00	0	0.890	4612895	908360	1477	3692	615		
361.8385	38:00	38:00	0	0.890	3583196	717563	1158	2895	620	1.29(1.05-1.43)	
PCB-153											
359.8415	38:31	38:31	0	0.902	9129301	1317910	1477	3692	892		
361.8385	38:31	38:31	0	0.902	7271364	1053376	1158	2895	910	1.26(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:31	38:31	0	0.902	9129301	1317910	1477	3692	892		
361.8385	38:31	38:31	0	0.902	7271364	1053376	1158	2895	910	1.26(1.05-1.43)	
PCB-141											
359.8415	38:41	38:41	0	0.906	3435207	654757	1477	3692	443		
361.8385	38:41	38:41	0	0.906	2749817	532853	1158	2895	460	1.25(1.05-1.43)	
PCB-130											
359.8415	39:06	39:06	0	0.916	2876304	566953	1477	3692	384		
361.8385	39:06	39:06	0	0.916	2298047	450150	1158	2895	389	1.25(1.05-1.43)	
PCB-137											
359.8415	39:19	39:19	0	0.921	3192800	661688	1477	3692	448		
361.8385	39:19	39:19	0	0.921	2530583	512333	1158	2895	442	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											
359.8415	39:27	39:27	0	0.924	4568732	875714	1477	3692	593		
361.8385	39:26	39:27	-1	0.923	3586060	680936	1158	2895	588	1.27(1.05-1.43)	
PCB-129											
359.8415	39:45	39:45	0	0.931	15680207	1784875	1477	3692	1208		M
361.8385	39:45	39:45	0	0.931	12371266	1417505	1158	2895	1224	1.27(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:45	39:45	0	0.931	15680207	1784875	1477	3692	1208		M
361.8385	39:45	39:45	0	0.931	12371266	1417505	1158	2895	1224	1.27(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:45	39:45	0	0.931	15680207	1784875	1477	3692	1208		M
361.8385	39:45	39:45	0	0.931	12371266	1417505	1158	2895	1224	1.27(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:45	39:45	0	0.931	15680207	1784875	1477	3692	1208		M
361.8385	39:45	39:45	0	0.931	12371266	1417505	1158	2895	1224	1.27(1.05-1.43)	M
PCB-158											
359.8415	40:07	40:07	0	0.939	5298037	995044	1477	3692	674		
361.8385	40:07	40:07	0	0.939	4220057	788421	1158	2895	681	1.26(1.05-1.43)	
PCB-128											
359.8415	40:58	40:58	0	0.959	8235489	1142079	1477	3692	773		
361.8385	40:58	40:58	0	0.959	6524229	922432	1158	2895	797	1.26(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:58	40:58	0	0.959	8235489	1142079	1477	3692	773		
361.8385	40:58	40:58	0	0.959	6524229	922432	1158	2895	797	1.26(1.05-1.43)	
PCB-159											
359.8415	41:58	41:58	0	0.983	5683997	1121714	1477	3692	759		
361.8385	41:58	41:58	0	0.983	4490978	889210	1158	2895	768	1.27(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	5075774	907474	1477	3692	614		
361.8385	42:15	42:15	0	0.990	4073284	736617	1158	2895	636	1.25(1.05-1.43)	
PCB-167											
359.8415	42:44	42:44	0	1.001	4697240	899416	1477	3692	609		
361.8385	42:44	42:44	0	1.001	3732396	714909	1158	2895	617	1.26(1.05-1.43)	
PCB-156											
359.8415	43:54	43:54	0	1.001	9264764	1209740	1477	3692	819		
361.8385	43:54	43:54	0	1.001	7470184	959377	1158	2895	828	1.24(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:54	43:54	0	1.001	9264764	1209740	1477	3692	819		
361.8385	43:54	43:54	0	1.001	7470184	959377	1158	2895	828	1.24(1.05-1.43)	
PCB-169											
359.8415	47:06	47:06	0	1.000	5128232	911964	1477	3692	617		
361.8385	47:06	47:06	0	1.000	4044811	716543	1158	2895	619	1.27(1.05-1.43)	
PCB-188L											
405.8428	37:06	37:06	0	0.820	5882227	1182355	61	152	19383		
407.8398	37:06	37:06	0	0.820	5538397	1131137	2	5	565569	1.06(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:10	40:10	0	0.888	2142902	407517	61	152	6681		
407.8398	40:10	40:10	0	0.888	2017455	388562	2	5	194281	1.06(0.89-1.21)	
PCB-180L											
405.8428	45:14	45:14	0		4673781	890448	61	152	14598		
407.8398	45:15	45:14	1		4390705	836927	2	5	418464	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	4022968	783129	61	152	12838		
407.8398	46:30	46:30	0	1.028	3738619	720404	2	5	360202	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:37	0	1.097	11254921	2119584	3359	8397	631		
407.8398	49:37	49:37	0	1.097	10664080	2007583	1982	4955	1013	1.06(0.89-1.21)	
PCB-188											
393.8025	37:08	37:08	0	1.001	3441549	705737	46	115	15342		
395.7995	37:08	37:08	0	1.001	3248240	646032	44	110	14683	1.06(0.89-1.21)	
PCB-179											
393.8025	37:29	37:29	0	1.010	3442897	694518	46	115	15098		
395.7995	37:29	37:29	0	1.010	3244184	644365	44	110	14645	1.06(0.89-1.21)	
PCB-184											
393.8025	37:59	37:59	0	1.024	3391932	677252	46	115	14723		
395.7995	37:59	37:59	0	1.024	3221657	645546	44	110	14672	1.05(0.89-1.21)	
PCB-176											
393.8025	38:22	38:22	0	1.034	3077360	603769	46	115	13125		
395.7995	38:21	38:22	-1	1.034	2951600	566852	44	110	12883	1.04(0.89-1.21)	
PCB-186											
393.8025	38:49	38:49	0	1.046	3675107	728273	46	115	15832		
395.7995	38:49	38:49	0	1.046	3523152	705772	44	110	16040	1.04(0.89-1.21)	
PCB-178											
393.8025	40:12	40:12	0	1.083	2260293	433424	46	115	9422		
395.7995	40:12	40:12	0	1.083	2133518	412978	44	110	9386	1.06(0.89-1.21)	
PCB-175											
393.8025	40:49	40:49	0	1.100	2478155	489772	46	115	10647		
395.7995	40:49	40:49	0	1.100	2328332	457704	44	110	10402	1.06(0.89-1.21)	
PCB-187											
393.8025	41:05	41:05	0	1.107	2871776	551495	46	115	11989		
395.7995	41:05	41:05	0	1.107	2696223	526659	44	110	11970	1.07(0.89-1.21)	
PCB-182											
393.8025	41:17	41:17	0	1.113	2468019	473897	46	115	10302		
395.7995	41:17	41:17	0	1.113	2272436	435390	44	110	9895	1.09(0.89-1.21)	
PCB-183											
393.8025	41:41	41:41	0	1.124	4686828	506561	46	115	11012		M
395.7995	41:41	41:41	0	1.124	4470922	464932	44	110	10567	1.05(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:41	41:41	0	1.124	4686828	506561	46	115	11012		M
395.7995	41:41	41:41	0	1.124	4470922	464932	44	110	10567	1.05(0.89-1.21)	M



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											
393.8025	41:57	41:57	0	1.131	2529577	473715	46	115	10298		
395.7995	41:56	41:57	-1	1.130	2311785	448265	44	110	10188	1.09(0.89-1.21)	
PCB-177											
393.8025	42:23	42:23	0	1.142	2483319	472257	46	115	10266		
395.7995	42:23	42:23	0	1.142	2365252	435054	44	110	9888	1.05(0.89-1.21)	
PCB-181											
393.8025	42:46	42:46	0	1.153	2375134	462708	46	115	10059		
395.7995	42:46	42:46	0	1.153	2265425	441273	44	110	10029	1.05(0.89-1.21)	
PCB-171											
393.8025	42:59	42:59	0	1.159	4541904	801916	46	115	17433		
395.7995	42:59	42:59	0	1.159	4275155	751182	44	110	17072	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:59	42:59	0	1.159	4541904	801916	46	115	17433		
395.7995	42:59	42:59	0	1.159	4275155	751182	44	110	17072	1.06(0.89-1.21)	
PCB-172											
393.8025	44:37	44:37	0	0.899	2207498	424667	46	115	9232		
395.7995	44:37	44:37	0	0.899	2096776	417220	44	110	9482	1.05(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	3623718	678991	46	115	14761		
395.7995	44:54	44:54	0	0.905	3402657	658908	44	110	14975	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	6132957	843281	46	115	18332		
395.7995	45:14	45:14	0	0.912	5757352	776772	44	110	17654	1.07(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	6132957	843281	46	115	18332		
395.7995	45:14	45:14	0	0.912	5757352	776772	44	110	17654	1.07(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.919	3449518	667821	46	115	14518		
395.7995	45:37	45:37	0	0.919	3271908	643396	44	110	14623	1.05(0.89-1.21)	
PCB-170											
393.8025	46:31	46:31	0	0.938	2353168	449234	46	115	9766		M
395.7995	46:31	46:31	0	0.938	2216956	420956	44	110	9567	1.06(0.89-1.21)	M
PCB-190											
393.8025	47:02	47:02	0	0.948	3632575	691638	46	115	15036		
395.7995	47:02	47:02	0	0.948	3387303	640655	44	110	14560	1.07(0.89-1.21)	
PCB-189											
393.8025	49:37	49:37	0	1.000	5650846	1053459	1108	2770	951		
395.7995	49:37	49:37	0	1.000	5385240	1013284	1687	4217	601	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:29	42:29	0	0.821	3890664	739686	66	165	11207		
441.8008	42:29	42:29	0	0.821	4368129	836563	87	217	9616	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:43	51:43	0		6324842	1177491	226	565	5210		
441.8008	51:43	51:43	0		6916370	1293119	213	532	6071	0.91(0.76-1.02)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:11	52:11	0	1.009	7830015	1458243	226	565	6452		
441.8008	52:11	52:11	0	1.009	8450008	1571675	213	532	7379	0.93(0.76-1.02)	
PCB-202											
427.7635	42:30	42:30	0	1.001	2129245	418713	57	142	7346		
429.7606	42:30	42:30	0	1.001	2342790	450954	111	277	4063	0.91(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	0	1.022	1991345	385151	57	142	6757		
429.7606	43:25	43:25	0	1.022	2208012	429565	111	277	3870	0.90(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	2109212	413810	57	142	7260		
429.7606	44:05	44:05	0	1.038	2323046	441571	111	277	3978	0.91(0.76-1.02)	
PCB-197											
427.7635	44:18	44:18	0	1.043	2260044	429450	57	142	7534		
429.7606	44:18	44:18	0	1.043	2480749	487286	111	277	4390	0.91(0.76-1.02)	
PCB-200											
427.7635	44:26	44:26	0	1.046	2135021	421197	57	142	7389		
429.7606	44:26	44:26	0	1.046	2332691	461870	111	277	4161	0.92(0.76-1.02)	
PCB-198											
427.7635	47:12	47:12	0	1.111	3607683	452537	57	142	7939		
429.7606	47:12	47:12	0	1.111	3993019	508063	111	277	4577	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:12	47:12	0	1.111	3607683	452537	57	142	7939		
429.7606	47:12	47:12	0	1.111	3993019	508063	111	277	4577	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.918	1665382	319312	57	142	5602		
429.7606	47:53	47:53	0	0.918	1810826	347277	111	277	3129	0.92(0.76-1.02)	
PCB-203											
427.7635	48:04	48:04	0	0.921	1990586	378141	57	142	6634		
429.7606	48:04	48:04	-1	0.921	2214316	419677	111	277	3781	0.90(0.76-1.02)	
PCB-195											
427.7635	49:24	49:24	0	0.947	3416576	643712	2508	6270	257		
429.7606	49:24	49:24	0	0.947	3801535	717242	1991	4977	360	0.90(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	3742460	712274	2508	6270	284		
429.7606	51:44	51:44	0	0.991	4189326	798457	1991	4977	401	0.89(0.76-1.02)	
PCB-205											
427.7635	52:12	52:12	0	1.000	4409999	824235	2508	6270	329		
429.7606	52:12	52:12	0	1.000	4824382	902563	1991	4977	453	0.91(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:08	0	0.950	5712882	1069767	580	1450	1844		
475.7619	49:08	49:08	-1	0.950	7123895	1357485	497	1242	2731	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:56	53:56	0	1.043	4167895	769308	580	1450	1326		
475.7619	53:56	53:56	0	1.043	5158124	955357	497	1242	1922	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208											
461.7246	49:09	49:09	0	1.000	3239892	626345	2098	5245	299		
463.7216	49:09	49:09	0	1.000	4082842	785565	3007	7517	261	0.79(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	3325179	630747	2098	5245	301		
463.7216	50:05	50:05	0	1.019	4196499	800124	3007	7517	266	0.79(0.65-0.89)	
PCB-206											
461.7246	53:58	53:58	0	1.000	2589006	498756	2098	5245	238		
463.7216	53:58	53:58	0	1.000	3301577	632809	3007	7517	210	0.78(0.65-0.89)	
PCB-209L											
507.7258	55:33	55:33	0	1.074	3818894	665517	110	275	6050		
509.7229	55:33	55:33	0	1.074	5276643	910938	52	130	17518	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:35	55:35	0	1.000	2100863	368345	56	140	6578		
497.6826	55:34	55:35	-1	1.000	2968551	534253	46	115	11614	0.71(0.59-0.79)	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61CV1668CS3\_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
CCV Relative RT Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
 Lims ID: WDMCCV  
 Client ID:  
 Sample Type: WDMCCV  
 Inject. Date: 27-Jun-2024 22:00:00 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033294-001  
 Operator ID: Xcalibur\_System Instrument ID: D2D  
 Sublist: chrom-PCBs\_D2D\*sub2  
 Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
 Limit Group: HR - EPA\_23 PCB ICAL  
 Last Update: 27-Jun-2024 23:21:19 Calib Date: 31-May-2024 21:13:00  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
 Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
 Process Host: CTX1639  
 First Level Reviewer: Q9DB Date: 27-Jun-2024 23:21:19  
 Start Cal Date: 31-May-2024 14:36:00  
 End Cal Date: 31-May-2024 21:13:00

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-1L		11:34	11:42	8	15	0.7253	0.7283	0.717 - 0.7472
PCB-3L		13:43	13:50	7	15	0.8606	0.8617	0.849 - 0.8798
PCB-1	L	11:35	11:42	8		1.0011	1.0000	0.995 - 1.0085
PCB-2		13:34	13:41	7		0.9885	0.9886	0.985 - 0.9925
PCB-3	L	13:44	13:51	7		1.0010	1.0009	0.998 - 1.0048
PCB-4L		13:59	14:06	7	15	0.8771	0.8781	0.865 - 0.8956
PCB-9L		15:57	16:04	7		1.0000	1.0000	0.987 - 1.0128
PCB-8L		16:48	16:54	6		1.1991	1.1985	1.192 - 1.1989
PCB-15L		19:52	19:58	7	15	1.2459	1.2439	1.233 - 1.2530
PCB-4	L	14:00	14:07	7		1.0009	1.0009	0.994 - 1.0058
PCB-10		14:10	14:17	7		1.0132	1.0130	1.010 - 1.0168
PCB-9		15:58	16:04	6		1.1421	1.1398	1.135 - 1.1415
PCB-7		16:08	16:15	7		1.1534	1.1519	1.147 - 1.1538
PCB-6		16:22	16:29	7		1.1703	1.1687	1.164 - 1.1706
PCB-5		16:41	16:48	7		1.1929	1.1911	1.186 - 1.1926
PCB-8		16:48	16:55	7		1.2013	1.1995	1.194 - 1.2008
PCB-14		18:26	18:32	6		0.9278	0.9276	0.926 - 0.9305
PCB-11		19:16	19:22	6		0.9702	0.9697	0.968 - 0.9725
PCB-12/13		19:34	19:40	7		0.9848	0.9849	0.983 - 0.9875
PCB-15	L	19:53	19:59	6		1.0013	1.0007	0.997 - 1.0050
PCB-19L		17:05	17:12	7	15	0.8402	0.8412	0.831 - 0.8547
PCB-32L		20:20	20:27	7		1.0000	1.0000	0.998 - 1.0024
PCB-31L		22:37	22:42	6		1.0000	1.0000	0.998 - 1.0022
PCB-28L		22:55	22:59	4		1.0130	1.0124	1.006 - 1.0201

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-37L		26:54	26:59	5	15	1.1902	1.1887	1.178 - 1.1995
PCB-19	L	17:06	17:13	7		1.0008	1.0008	0.996 - 1.0058
PCB-18/30		18:57	19:02	5		1.1085	1.1062	1.104 - 1.1093
PCB-17		19:23	19:29	6		1.1347	1.1329	1.129 - 1.1352
PCB-27		19:37	19:43	6		1.1478	1.1459	1.141 - 1.1471
PCB-24		19:44	19:50	6		1.1547	1.1528	1.148 - 1.1542
PCB-16		19:51	19:58	7		1.1617	1.1604	1.156 - 1.1621
PCB-32		20:22	20:28	6		1.1917	1.1895	1.185 - 1.1908
PCB-34		21:37	21:43	6		1.2654	*1.2626	1.257 - 1.2623
PCB-23		21:47	21:51	5		1.2744	1.2707	1.266 - 1.2715
PCB-26/29		22:06	22:11	5		1.2931	1.2893	1.282 - 1.2915
PCB-25		22:19	22:24	6		0.8293	0.8304	0.829 - 0.8325
PCB-31		22:38	22:43	5		0.8412	0.8417	0.840 - 0.8438
PCB-20/28		22:56	23:01	5		0.8526	0.8531	0.851 - 0.8568
PCB-21/33		23:06	23:15	9		0.8588	0.8616	0.858 - 0.8637
PCB-22		23:33	23:39	6		0.8754	0.8763	0.875 - 0.8786
PCB-36		25:07	25:11	5		0.9334	0.9337	0.932 - 0.9352
PCB-39		25:28	25:33	5		0.9467	0.9469	0.945 - 0.9483
PCB-38		26:03	26:07	5		0.9681	0.9682	0.966 - 0.9695
PCB-35		26:31	26:36	5		0.9857	0.9858	0.984 - 0.9875
PCB-37	L	26:55	27:00	6		1.0005	1.0009	0.999 - 1.0024
PCB-54L		20:10	20:16	7	15	0.8149	0.8168	0.811 - 0.8247
PCB-52L		24:45	24:49	5		1.0000	1.0000	0.992 - 1.0083
PCB-79L		32:41	32:43	3		0.9707	0.9704	0.969 - 0.9718
PCB-81L		33:40	33:43	4	15	1.3604	1.3585	1.351 - 1.3641
PCB-77L		34:13	34:17	4	15	1.3832	1.3811	1.373 - 1.3867
PCB-54	L	20:12	20:18	7		1.0000	1.0000	0.996 - 1.0041
PCB-50/53		22:23	22:27	5		1.1097	1.1077	1.102 - 1.1106
PCB-45/51		23:06	23:11	5		1.1459	1.1436	1.137 - 1.1453
PCB-46		23:20	23:26	7		1.1573	1.1562	1.153 - 1.1576
PCB-52		24:46	24:51	5		1.2284	1.2256	1.222 - 1.2263
PCB-43/73		24:55	24:59	5		1.2353	1.2325	1.230 - 1.2346
PCB-49/69		25:12	25:16	4		1.2499	1.2464	1.242 - 1.2499
PCB-48		25:32	25:36	4		1.2665	1.2628	1.259 - 1.2636
PCB-44/47/65		25:47	25:51	4		1.2785	1.2747	1.269 - 1.2770
PCB-59/62/75		26:05	26:10	6		1.2931	1.2905	1.284 - 1.2919
PCB-42		26:17	26:21	5		1.3033	1.3000	1.296 - 1.3007
PCB-40/41/71		26:47	26:51	5		1.3280	1.3246	1.317 - 1.3250
PCB-64		27:00	27:04	5		1.3388	1.3353	1.331 - 1.3355
PCB-72		27:50	27:53	3		0.8271	0.8271	0.826 - 0.8291
PCB-68		28:07	28:11	4		0.8354	0.8359	0.835 - 0.8375
PCB-57		28:33	28:36	4		0.8480	0.8484	0.847 - 0.8500
PCB-58		28:47	28:51	4		0.8552	0.8556	0.854 - 0.8574
PCB-67		28:57	29:00	3		0.8601	0.8601	0.859 - 0.8620
PCB-63		29:13	29:16	4		0.8677	0.8681	0.866 - 0.8694
PCB-61/70/74/76		29:33	29:37	4		0.8780	0.8783	0.875 - 0.8810

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-66		29:52	29:56	4		0.8875	0.8878	0.886 - 0.8894
PCB-55		30:02	30:06	5		0.8920	0.8927	0.891 - 0.8943
PCB-56		30:32	30:37	5		0.9072	0.9079	0.907 - 0.9098
PCB-60		30:45	30:49	4		0.9137	0.9139	0.913 - 0.9158
PCB-80		31:10	31:13	3		0.9259	0.9257	0.924 - 0.9268
PCB-79		32:42	32:45	3		0.9715	0.9712	0.970 - 0.9726
PCB-78		33:15	33:18	3		0.9878	0.9875	0.986 - 0.9890
PCB-81	T	33:41	33:44	3		1.0008	1.0004	0.999 - 1.0020
PCB-77	T/L	34:15	34:18	4		1.0007	1.0007	0.999 - 1.0019
PCB-104L		25:42	25:45	4	15	0.8129	0.8138	0.810 - 0.8199
PCB-95L		28:40	28:44	5		1.1155	1.1157	1.112 - 1.1179
PCB-101L		31:36	31:39	3		1.0000	1.0000	0.994 - 1.0065
PCB-111L		34:17	34:18	1		1.0850	1.0840	1.079 - 1.0891
PCB-123L		36:15	36:16	2	15	1.1469	1.1461	1.141 - 1.1511
PCB-118L		36:34	36:36	2	15	1.1573	1.1565	1.151 - 1.1614
PCB-114L		37:06	37:07	2	15	1.1739	1.1731	1.168 - 1.1780
PCB-105L		37:44	37:47	3	15	1.1943	1.1938	1.188 - 1.1989
PCB-127L		39:13	39:14	2		1.0000	1.0000	0.995 - 1.0053
PCB-126L		40:49	40:51	2	15	1.2917	1.2910	1.285 - 1.2956
PCB-104	L	25:42	25:47	5		1.0005	1.0010	0.998 - 1.0039
PCB-96		26:05	26:10	6		1.0149	1.0159	1.013 - 1.0195
PCB-103		28:01	28:04	3		1.0907	1.0899	1.087 - 1.0912
PCB-94		28:14	28:18	4		1.0991	1.0988	1.097 - 1.1003
PCB-95		28:41	28:45	4		1.1165	1.1162	1.113 - 1.1193
PCB-93/100		28:54	28:57	3		1.1250	1.1241	1.120 - 1.1267
PCB-98/102		29:03	29:06	3		1.1310	1.1301	1.127 - 1.1336
PCB-88/91		29:33	29:36	4		1.1499	1.1494	1.143 - 1.1505
PCB-84		29:46	29:51	6		1.1584	1.1589	1.157 - 1.1603
PCB-89		30:15	30:18	4		1.1773	1.1767	1.175 - 1.1786
PCB-121		30:40	30:42	2		1.1937	1.1921	1.188 - 1.1922
PCB-92		31:02	31:05	3		0.8564	0.8570	0.856 - 0.8589
PCB-90/101/113		31:37	31:39	2		1.2306	1.2288	1.224 - 1.2307
PCB-83/99		32:12	32:14	2		1.2535	1.2517	1.245 - 1.2525
PCB-112		32:19	32:22	3		1.2580	1.2566	1.254 - 1.2574
PCB-86/87/97/109/119/125		32:41	32:44	3		1.2724	1.2710	1.265 - 1.2756
PCB-85/116/117		33:25	33:28	3		1.3008	1.2993	1.293 - 1.3007
PCB-110/115		33:36	33:39	4		1.3078	1.3067	1.303 - 1.3092
PCB-82		33:54	33:57	4		1.3198	1.3187	1.316 - 1.3194
PCB-111		34:19	34:20	1		1.3357	*1.3331	1.329 - 1.3330
PCB-120		34:46	34:47	2		1.3531	1.3509	1.348 - 1.3514
PCB-108/124		35:54	35:56	3		1.3975	1.3956	1.390 - 1.3967
PCB-107		36:09	36:10	2		1.4072	1.4048	1.401 - 1.4049
PCB-123	T	36:16	36:18	2		1.0007	1.0007	1.000 - 1.0023
PCB-106		36:22	36:25	3		1.0036	1.0040	1.003 - 1.0057
PCB-118	T	36:35	36:37	3		1.0004	1.0007	0.999 - 1.0019
PCB-122		36:56	36:59	3		1.0101	1.0104	1.009 - 1.0117

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-114	T	37:07	37:09	3		1.0004	1.0007	0.999 - 1.0018
PCB-105	T	37:46	37:48	3		1.0007	1.0007	0.999 - 1.0018
PCB-127		39:14	39:16	2		1.0397	1.0393	1.037 - 1.0399
PCB-126	T/L	40:51	40:53	2		1.0006	1.0006	1.000 - 1.0016
PCB-155L		31:22	31:24	2	15	0.7904	0.7908	0.787 - 0.7951
PCB-153L		38:27	38:28	1		0.9005	0.9006	0.899 - 0.9028
PCB-138L		39:41	39:42	2		1.0000	1.0000	0.979 - 1.0208
PCB-167L		42:42	42:42	1	15	1.0759	1.0754	1.071 - 1.0792
PCB-156L/157L		43:51	43:52	1	15	1.1050	1.1049	1.100 - 1.1084
PCB-169L		47:05	47:05	1	15	1.1862	1.1860	1.184 - 1.1864
PCB-155	L	31:24	31:25	2		1.0008	1.0004	0.998 - 1.0031
PCB-152		31:35	31:39	4		1.0069	1.0077	1.006 - 1.0096
PCB-150		31:45	31:48	3		1.0122	1.0126	1.011 - 1.0144
PCB-136		32:07	32:10	4		1.0236	1.0244	1.024 - 1.0268
PCB-145		32:24	32:28	4		1.0330	1.0338	1.033 - 1.0358
PCB-148		33:56	33:57	2		1.0816	1.0814	1.080 - 1.0830
PCB-135/151		34:31	34:33	2		1.1004	1.1001	1.099 - 1.1038
PCB-154		34:46	34:48	2		1.1085	1.1083	1.106 - 1.1107
PCB-144		35:05	35:07	3		1.1183	1.1185	1.117 - 1.1199
PCB-147/149		35:27	35:29	2		1.1301	1.1299	1.127 - 1.1326
PCB-134/143		35:45	35:47	3		1.1394	1.1395	1.136 - 1.1409
PCB-139/140		36:03	36:04	2		1.1490	1.1487	1.146 - 1.1515
PCB-131		36:15	36:17	3		1.1553	1.1554	1.154 - 1.1571
PCB-142		36:23	36:25	3		1.1599	1.1600	1.159 - 1.1621
PCB-132		36:42	36:45	4		1.1700	1.1704	1.168 - 1.1728
PCB-133		37:13	37:14	2		1.1863	1.1859	1.184 - 1.1872
PCB-165		37:37	37:38	2		0.8808	0.8813	0.880 - 0.8825
PCB-146		37:52	37:52	1		0.8867	0.8868	0.886 - 0.8882
PCB-161		37:59	38:00	1		0.8897	0.8899	0.889 - 0.8914
PCB-153/168		38:29	38:31	2		0.9014	0.9019	0.900 - 0.9040
PCB-141		38:40	38:41	2		0.9054	0.9059	0.905 - 0.9075
PCB-130		39:04	39:06	3		0.9150	0.9157	0.915 - 0.9172
PCB-137		39:18	39:19	2		0.9202	0.9206	0.920 - 0.9224
PCB-164		39:25	39:27	3		0.9230	0.9237	0.923 - 0.9252
PCB-129/138/160/163		39:44	39:45	2		0.9304	0.9308	0.930 - 0.9349
PCB-158		40:06	40:07	1		0.9393	0.9394	0.939 - 0.9409
PCB-128/166		40:57	40:58	2		0.9590	0.9594	0.958 - 0.9617
PCB-159		41:58	41:58	1		0.9828	0.9828	0.982 - 0.9839
PCB-162		42:15	42:15	1		0.9895	0.9895	0.988 - 0.9907
PCB-167	T	42:43	42:44	1		1.0006	1.0006	0.999 - 1.0016
PCB-156/157	T	43:53	43:54	1		1.0006	1.0006	0.999 - 1.0025
PCB-169	T/L	47:06	47:06	0		1.0006	1.0003	0.999 - 1.0015
PCB-188L		37:06	37:06	1	15	0.8198	0.8202	0.817 - 0.8243
PCB-178L		40:09	40:10	2		0.8875	0.8879	0.884 - 0.8916
PCB-180L		45:15	45:14	0		1.0000	1.0000	0.996 - 1.0037
PCB-170L		46:30	46:30	1	15	1.0276	1.0279	1.024 - 1.0317

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-189L		49:37	49:37	0	15	1.0965	1.0967	1.093 - 1.1000
PCB-188	L	37:07	37:08	1		1.0007	1.0007	1.000 - 1.0022
PCB-179		37:27	37:29	3		1.0096	1.0103	1.009 - 1.0115
PCB-184		37:59	37:59	0		1.0241	1.0237	1.023 - 1.0254
PCB-176		38:20	38:22	3		1.0333	1.0340	1.033 - 1.0351
PCB-186		38:48	38:49	2		1.0457	1.0460	1.045 - 1.0476
PCB-178		40:10	40:12	2		1.0830	1.0832	1.081 - 1.0837
PCB-175		40:48	40:49	1		1.1000	1.0998	1.098 - 1.1008
PCB-187		41:05	41:05	1		1.1074	1.1073	1.106 - 1.1082
PCB-182		41:17	41:17	1		1.1127	1.1126	1.111 - 1.1137
PCB-183/185		41:42	41:41	0		1.1241	1.1235	1.123 - 1.1260
PCB-174		41:56	41:57	2		1.1305	1.1306	1.129 - 1.1313
PCB-177		42:22	42:23	2		1.1422	1.1423	1.140 - 1.1430
PCB-181		42:45	42:46	2		1.1524	1.1526	1.151 - 1.1535
PCB-171/173		42:58	42:59	2		1.1585	1.1586	1.156 - 1.1602
PCB-172		44:37	44:37	1		0.8993	0.8994	0.899 - 0.9008
PCB-192		44:54	44:54	1		0.9049	0.9049	0.904 - 0.9060
PCB-180/193		45:14	45:14	1		0.9117	0.9118	0.911 - 0.9130
PCB-191		45:37	45:37	1		0.9194	0.9195	0.919 - 0.9209
PCB-170		46:31	46:31	1		0.9377	0.9378	0.937 - 0.9392
PCB-190		47:02	47:02	0		0.9481	0.9481	0.948 - 0.9496
PCB-189	T/L	49:38	49:37	0		1.0003	1.0003	0.999 - 1.0013
PCB-202L		42:28	42:29	2	15	0.8211	0.8215	0.819 - 0.8249
PCB-194L		51:43	51:43	0		1.0000	1.0000	0.996 - 1.0040
PCB-205L		52:11	52:11	0	15	1.0092	1.0092	1.004 - 1.0138
PCB-202	L	42:29	42:30	2		1.0006	1.0006	0.999 - 1.0027
PCB-201		43:24	43:25	1		1.0223	1.0220	1.020 - 1.0237
PCB-204		44:05	44:05	1		1.0381	1.0377	1.036 - 1.0388
PCB-197		44:19	44:18	0		1.0437	1.0430	1.042 - 1.0445
PCB-200		44:25	44:26	1		1.0462	1.0461	1.045 - 1.0473
PCB-198/199		47:12	47:12	1		1.1115	1.1113	1.109 - 1.1132
PCB-196		47:53	47:53	0		0.9175	0.9175	0.917 - 0.9189
PCB-203		48:05	48:04	0		0.9212	0.9213	0.921 - 0.9226
PCB-195		49:24	49:24	0		0.9465	0.9466	0.946 - 0.9481
PCB-194		51:44	51:44	0		0.9914	0.9914	0.991 - 0.9926
PCB-205	L	52:13	52:12	0		1.0005	1.0005	0.999 - 1.0013
PCB-208L		49:08	49:08	0	15	0.9503	0.9503	0.947 - 0.9534
PCB-206L		53:56	53:56	0	15	1.0431	1.0430	1.038 - 1.0472
PCB-208	L	49:10	49:09	0		1.0005	1.0003	0.999 - 1.0013
PCB-207		50:05	50:05	0		1.0193	1.0193	1.019 - 1.0205
PCB-206	L	53:58	53:58	0		1.0005	1.0005	1.000 - 1.0015
PCB-209L		55:35	55:33	-1	15	1.0748	1.0744	1.069 - 1.0784
DCB Decachlorobiphenyl	L	55:35	55:35	0		1.0002	1.0005	0.999 - 1.0012

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

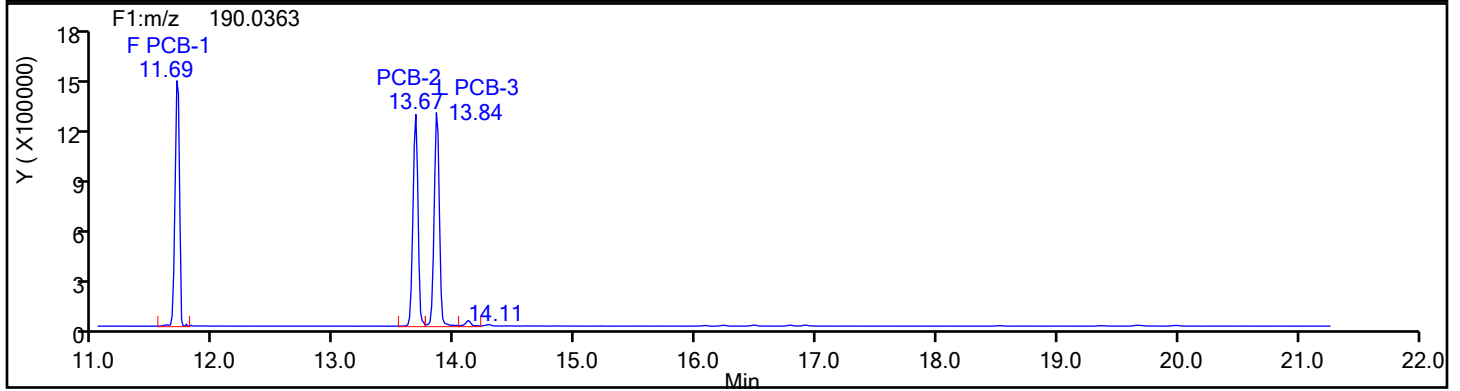
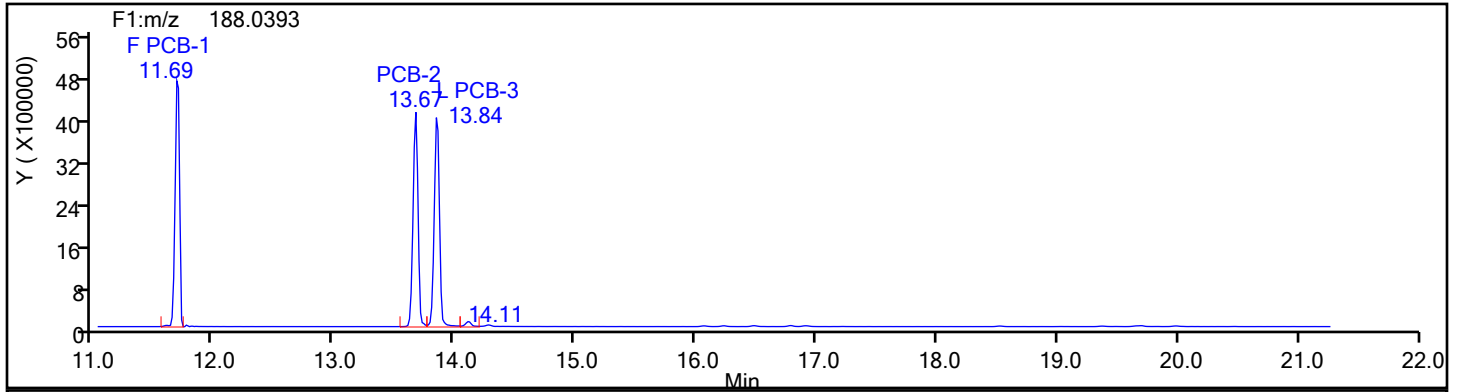
Worklist#: 88205

Sample Line#: 1

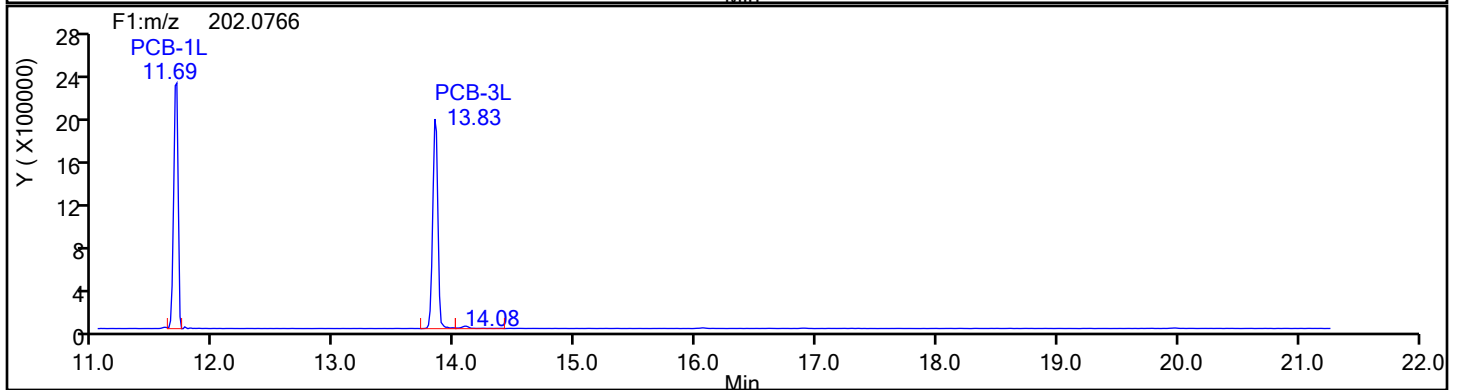
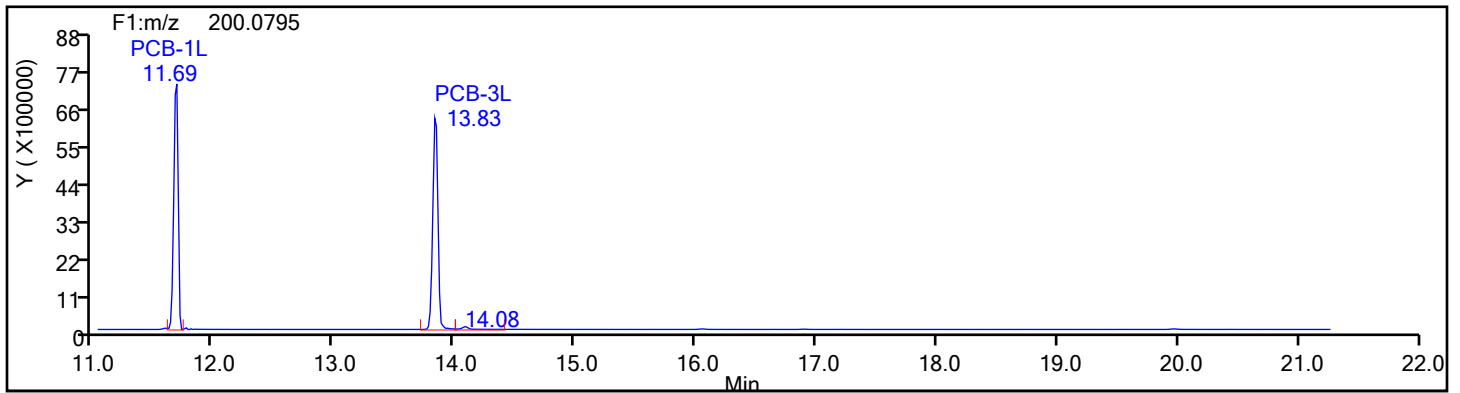
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

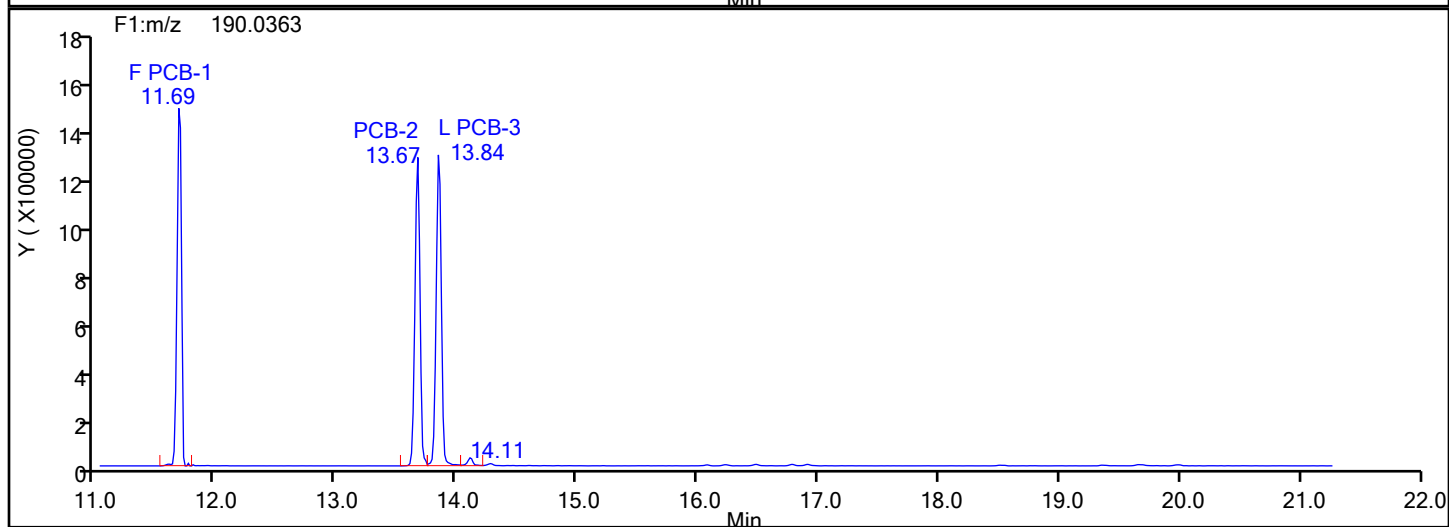
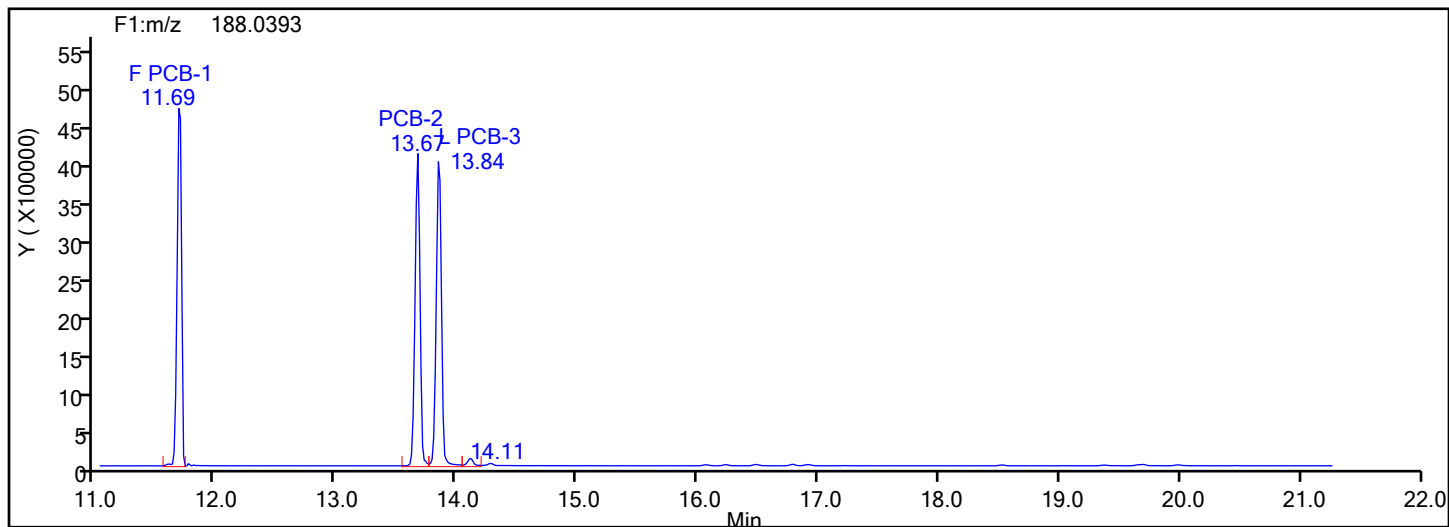
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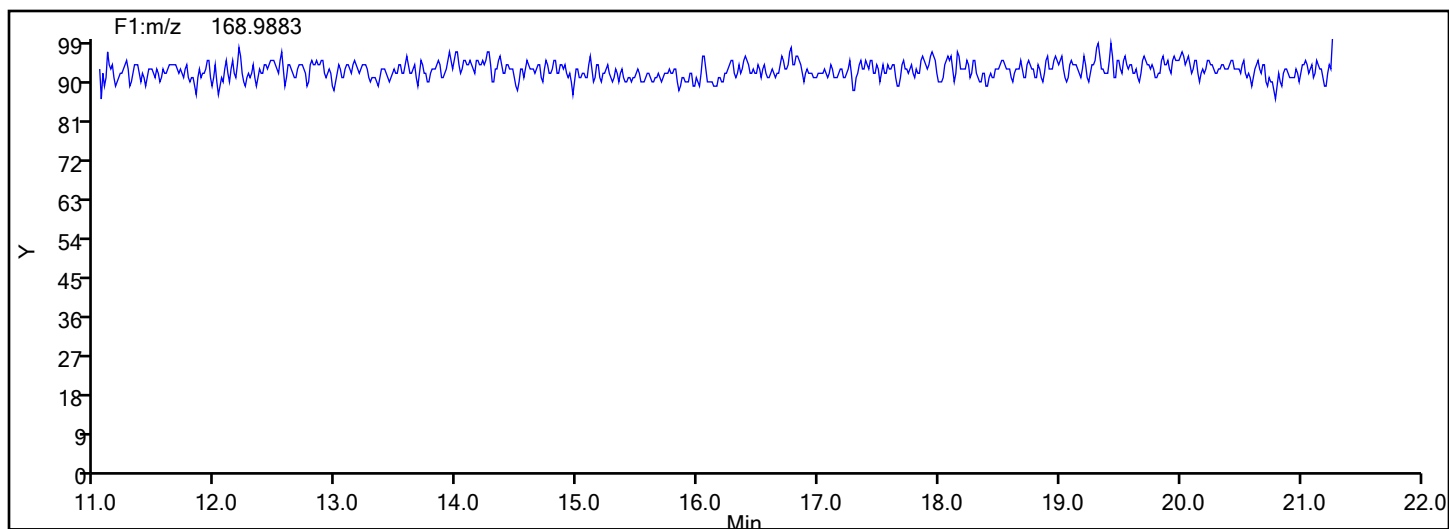
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Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

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Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

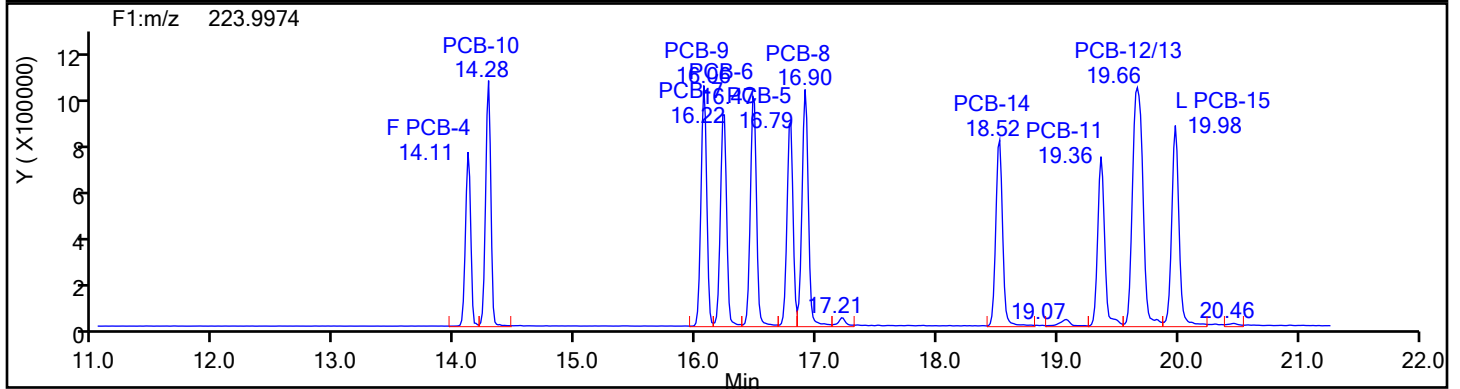
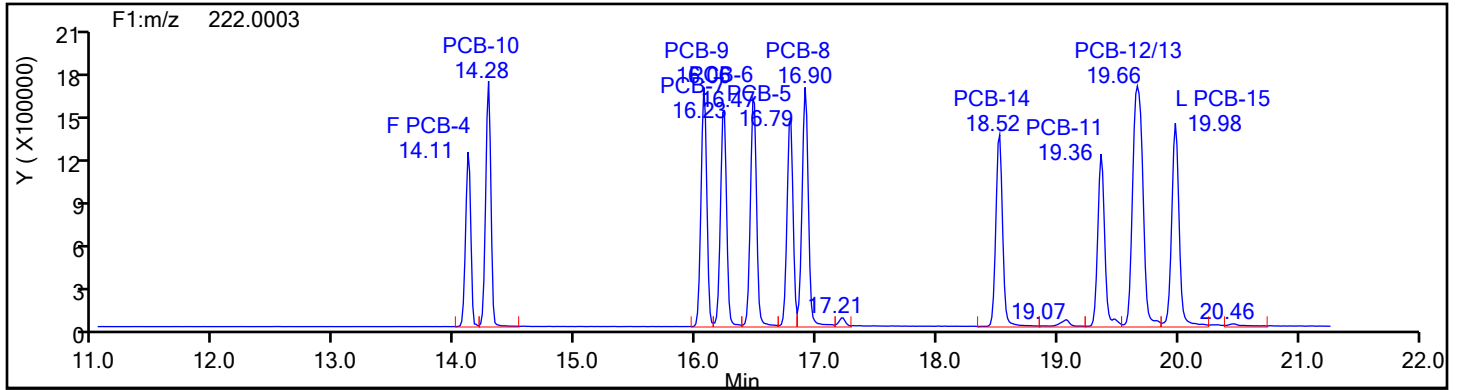
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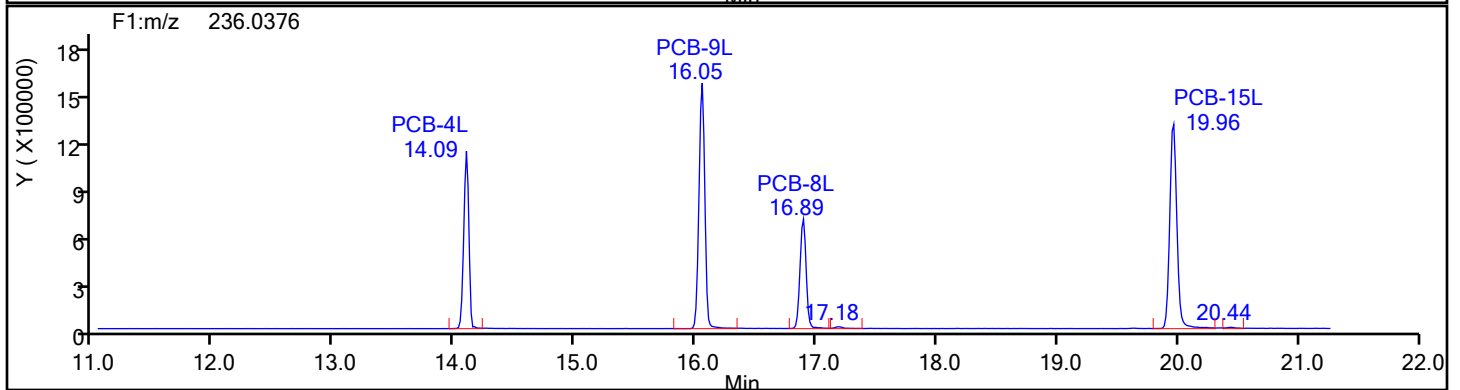
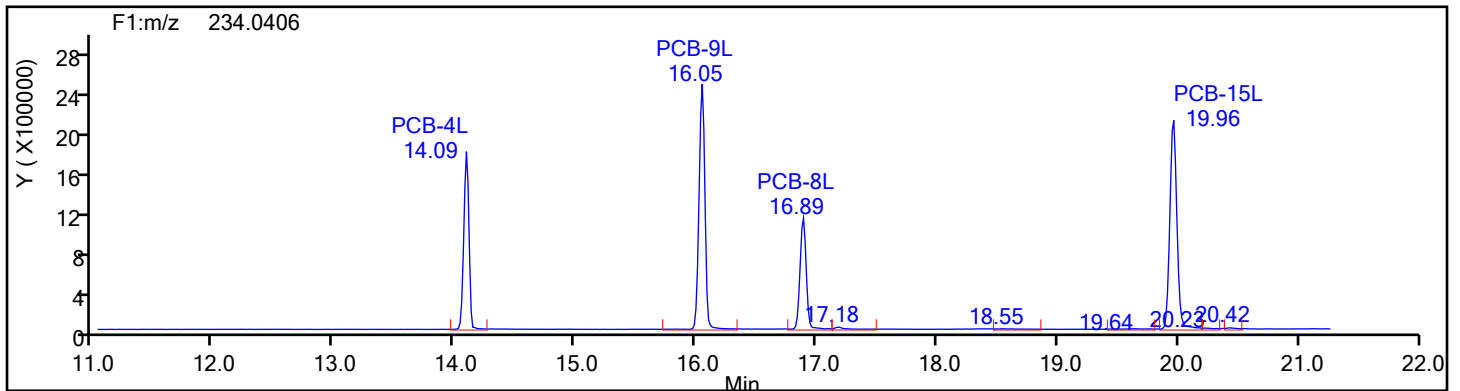
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

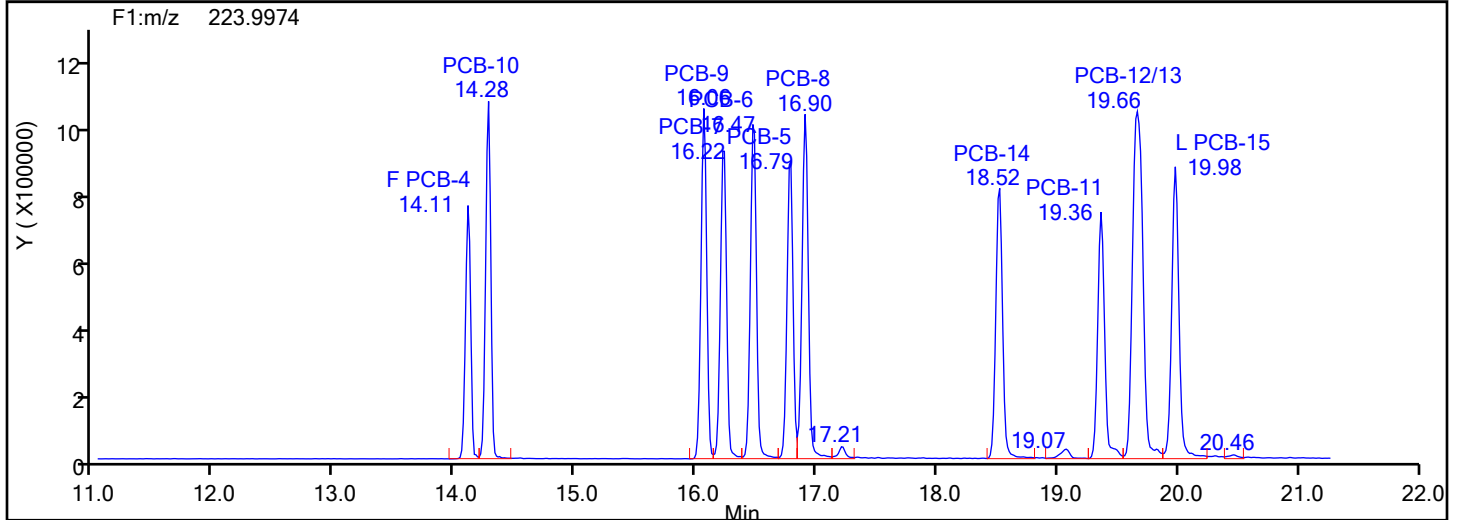
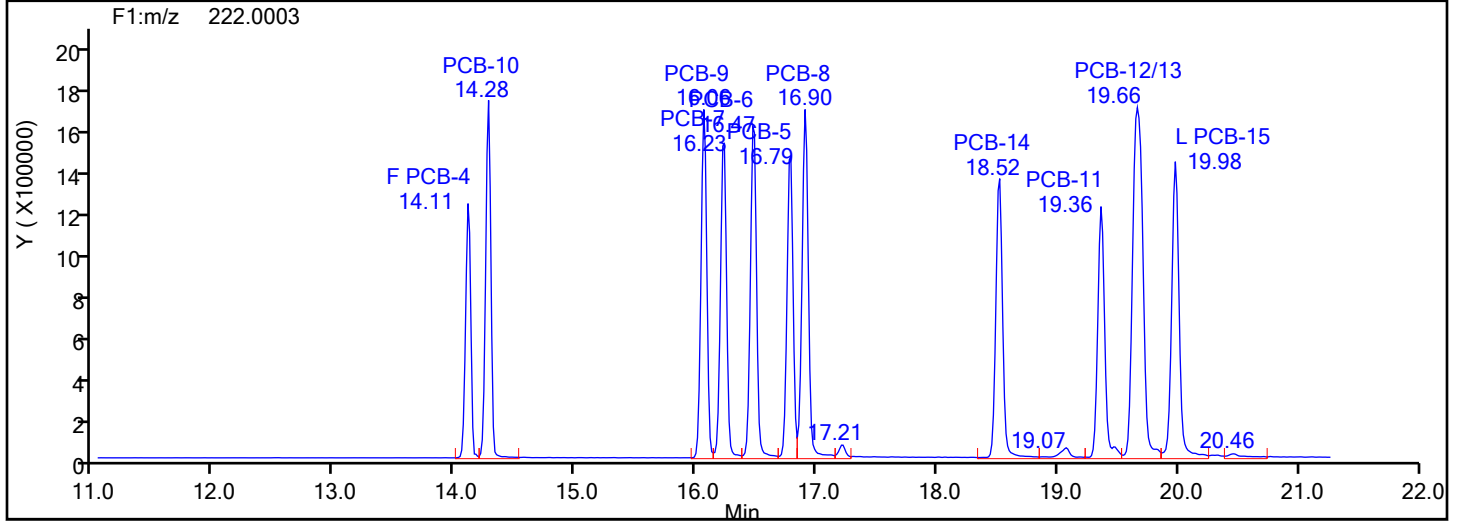
Worklist#: 88205

Sample Line#: 1

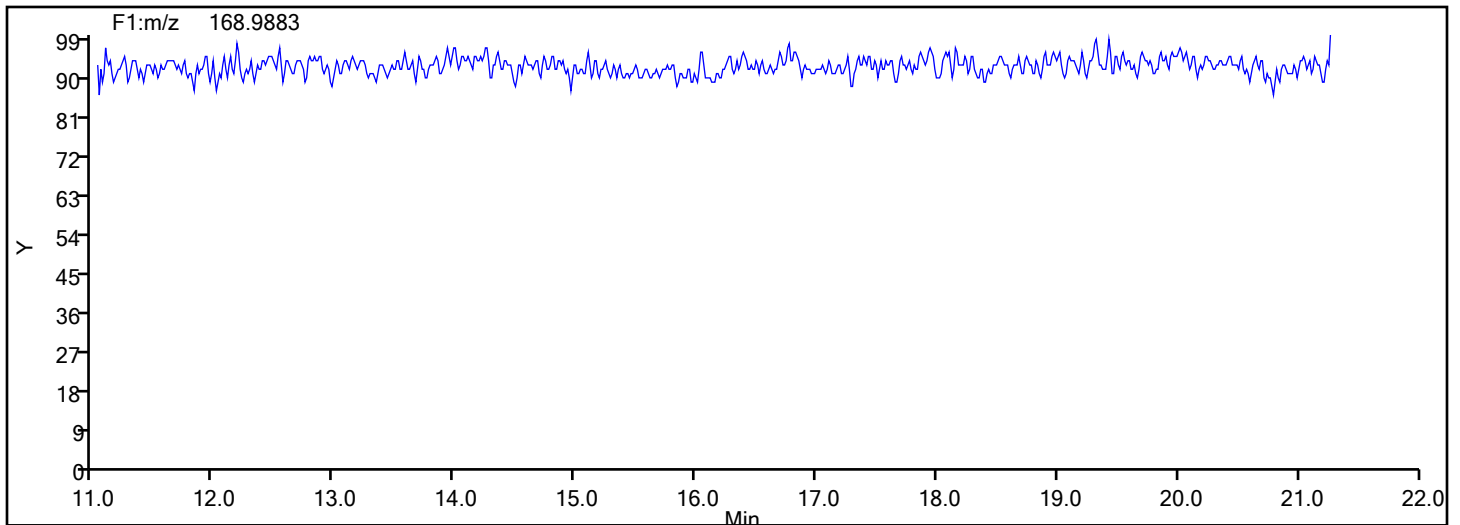
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1

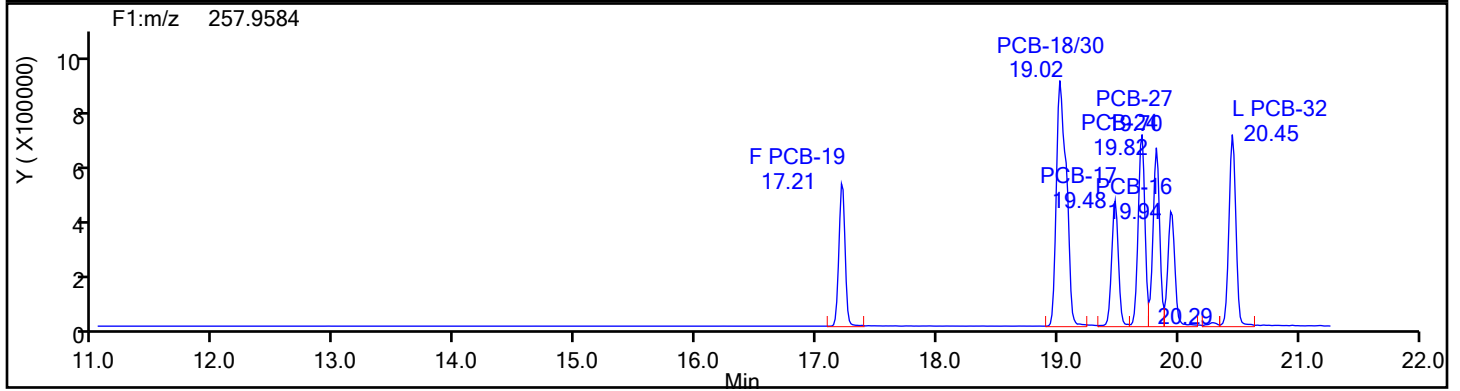
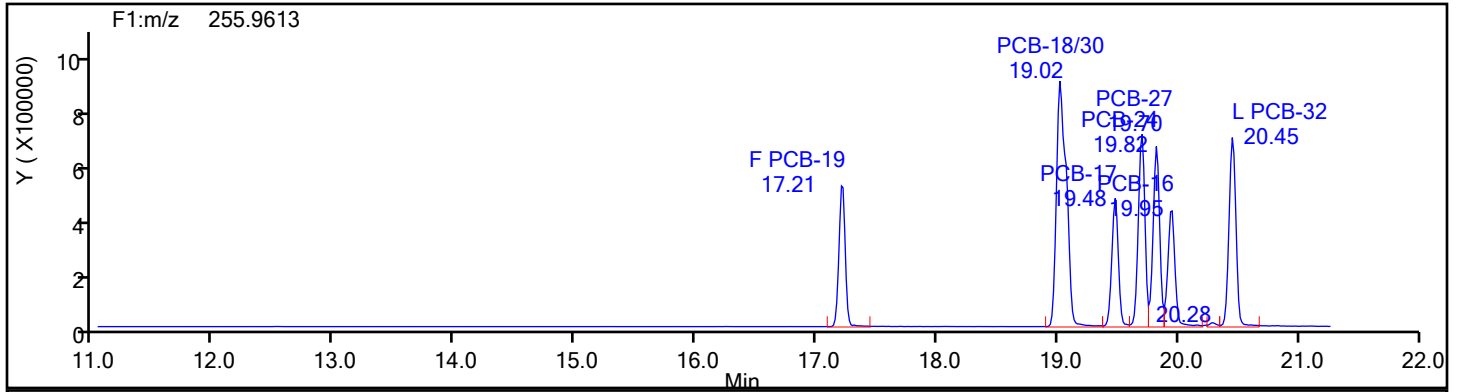


DiPCB F1 Lock Mass

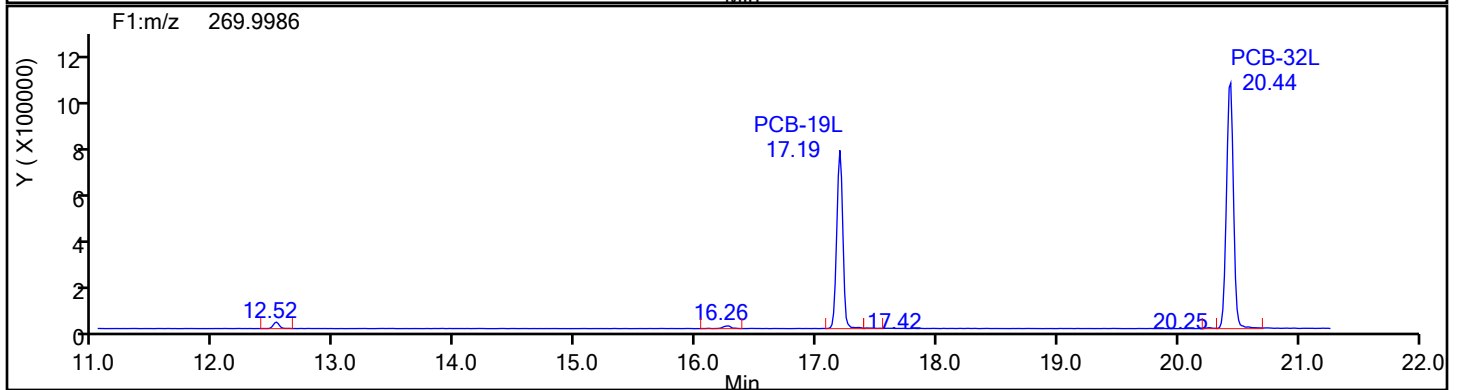
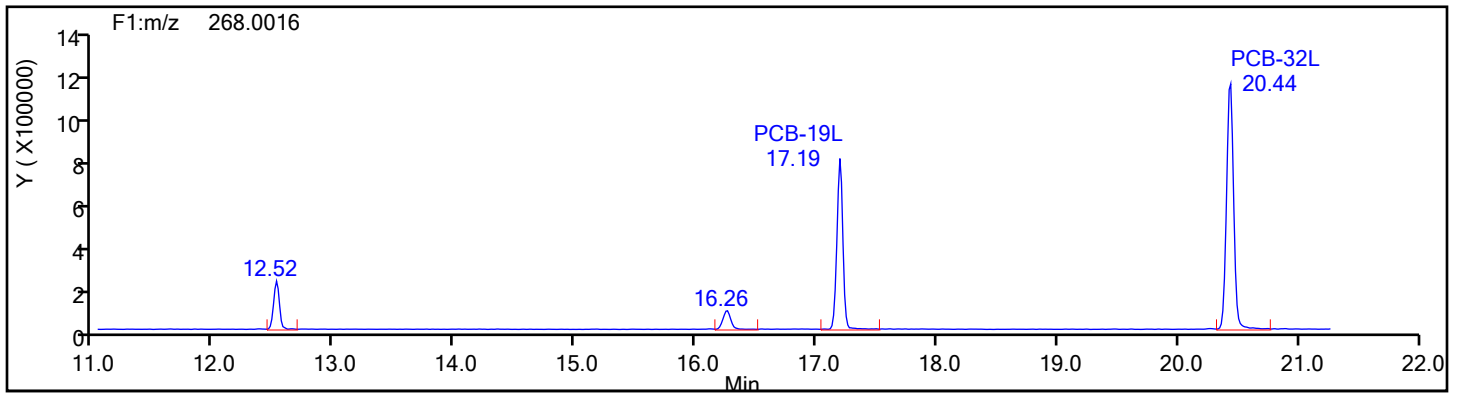


## Eurofins Knoxville

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Injection Date: 27-Jun-2024 22:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1

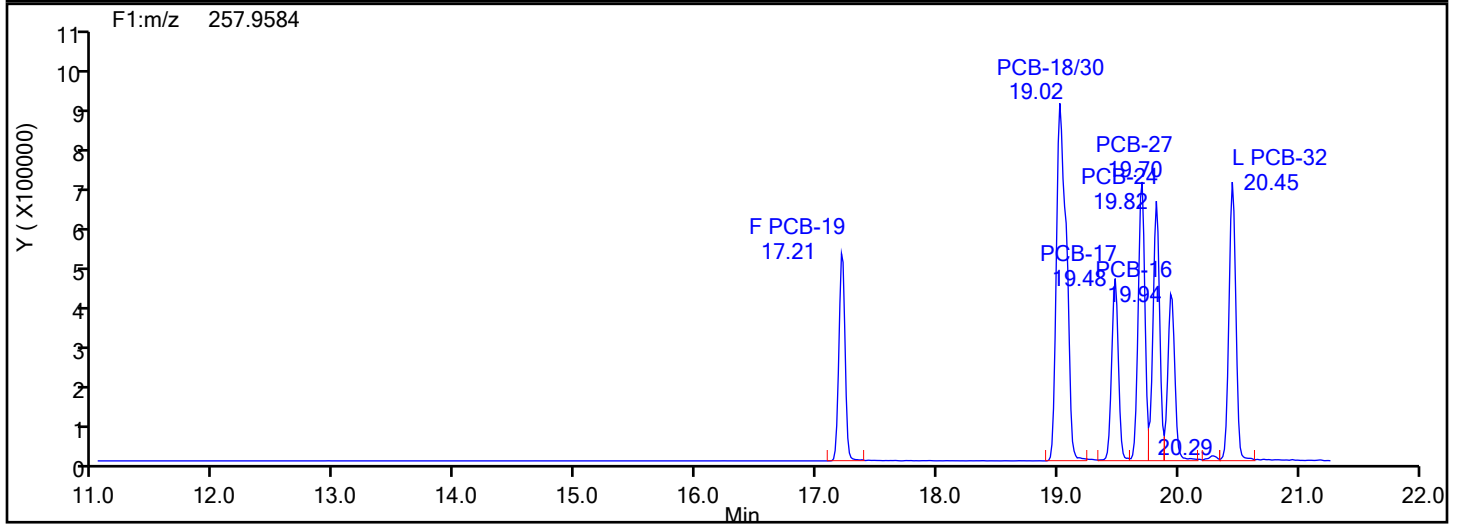
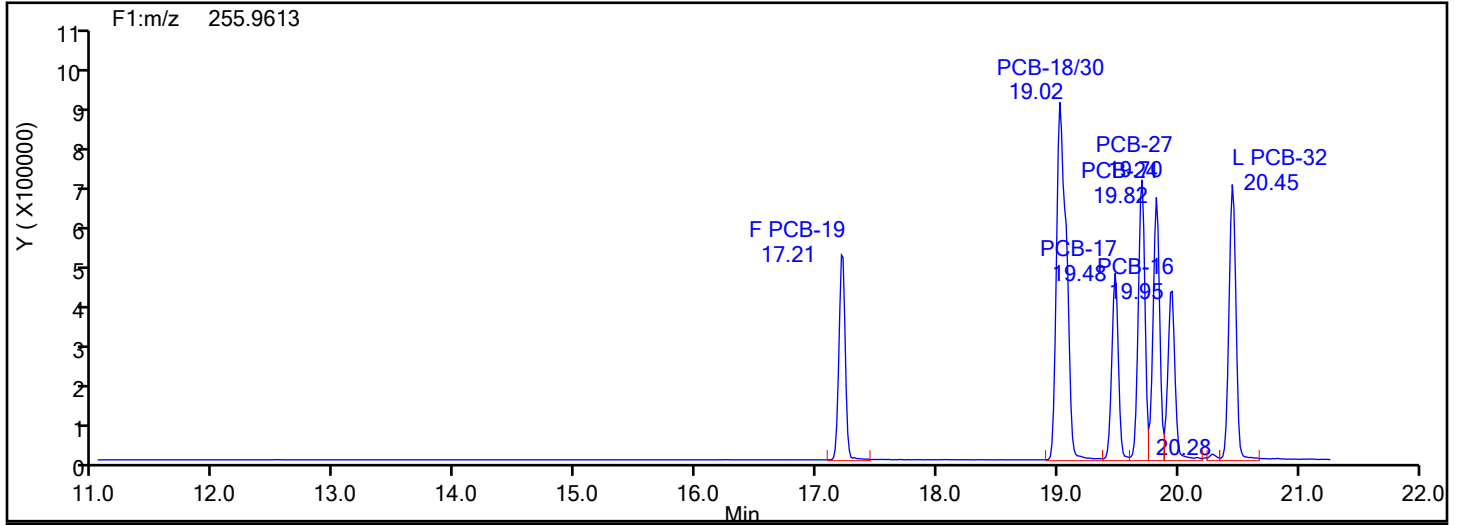


## TriPCB F1 Standards

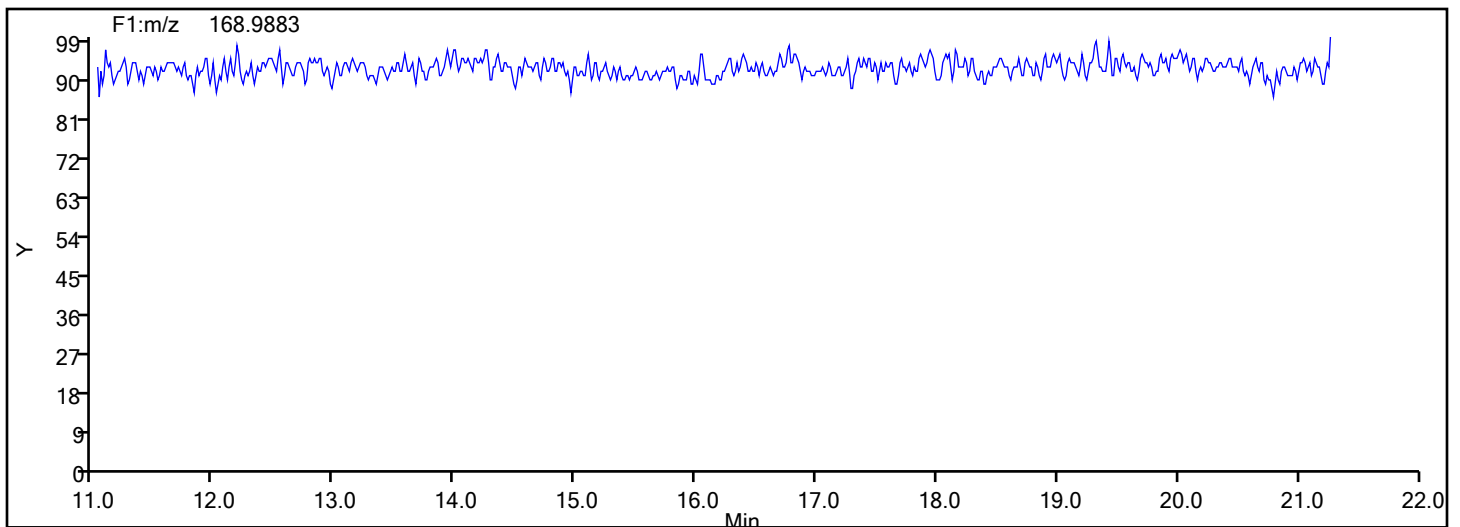


## Eurofins Knoxville

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Injection Date: 27-Jun-2024 22:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

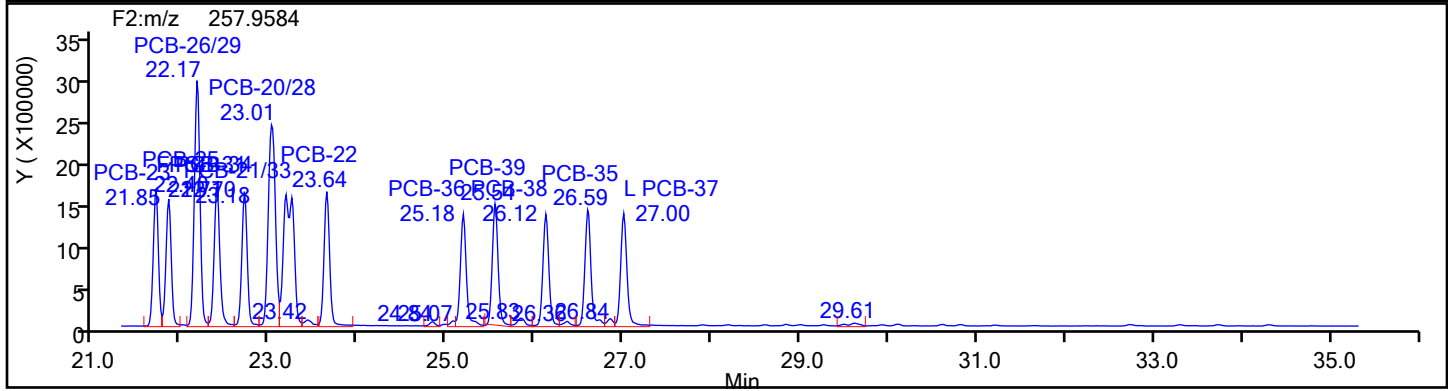
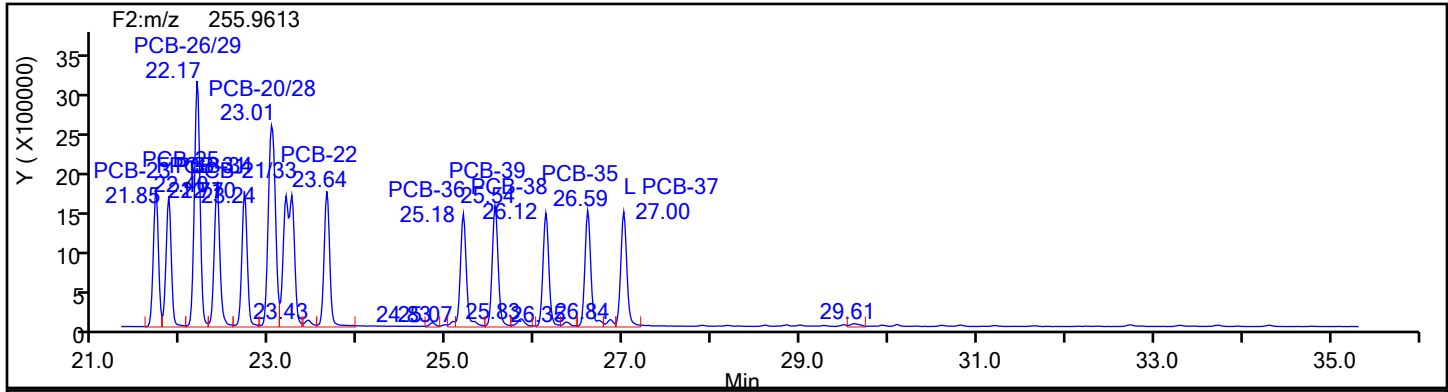
Worklist#: 88205

Sample Line#: 1

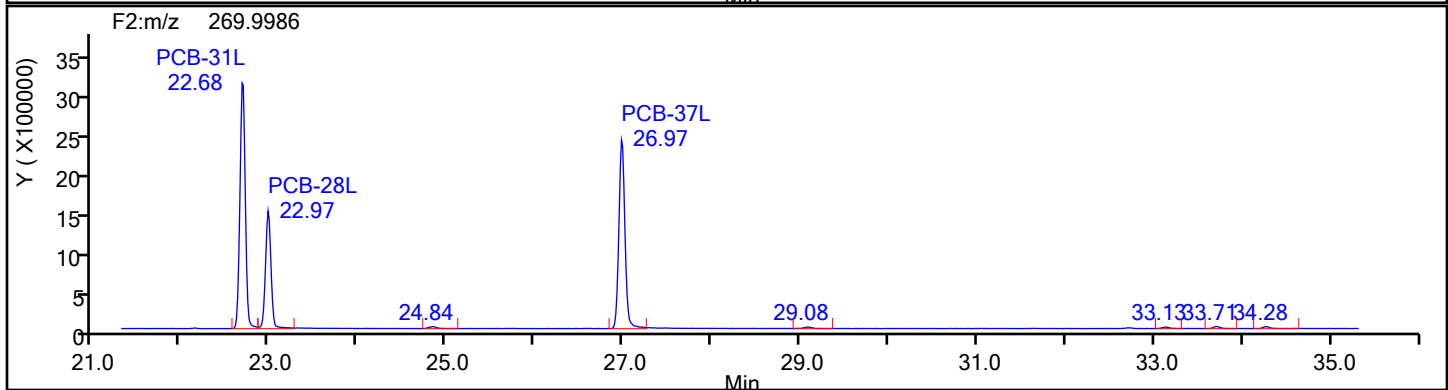
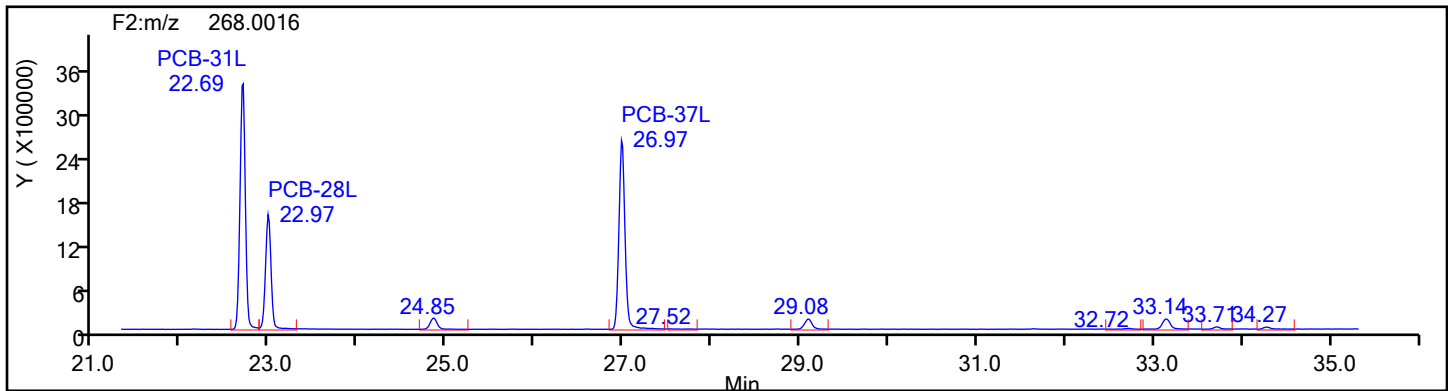
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

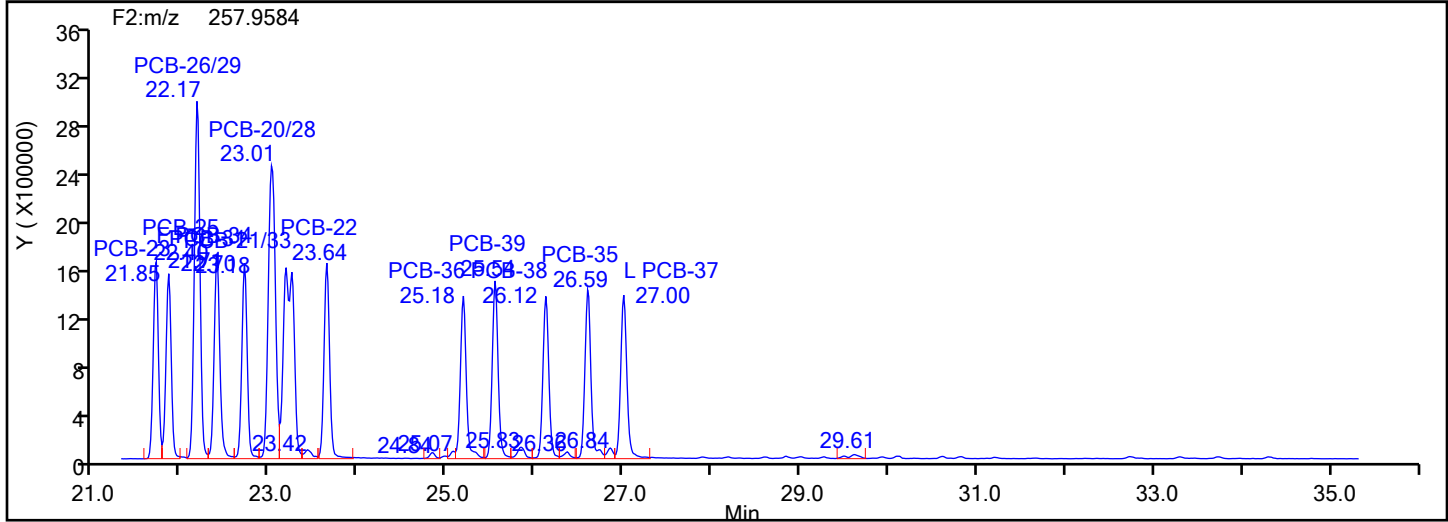
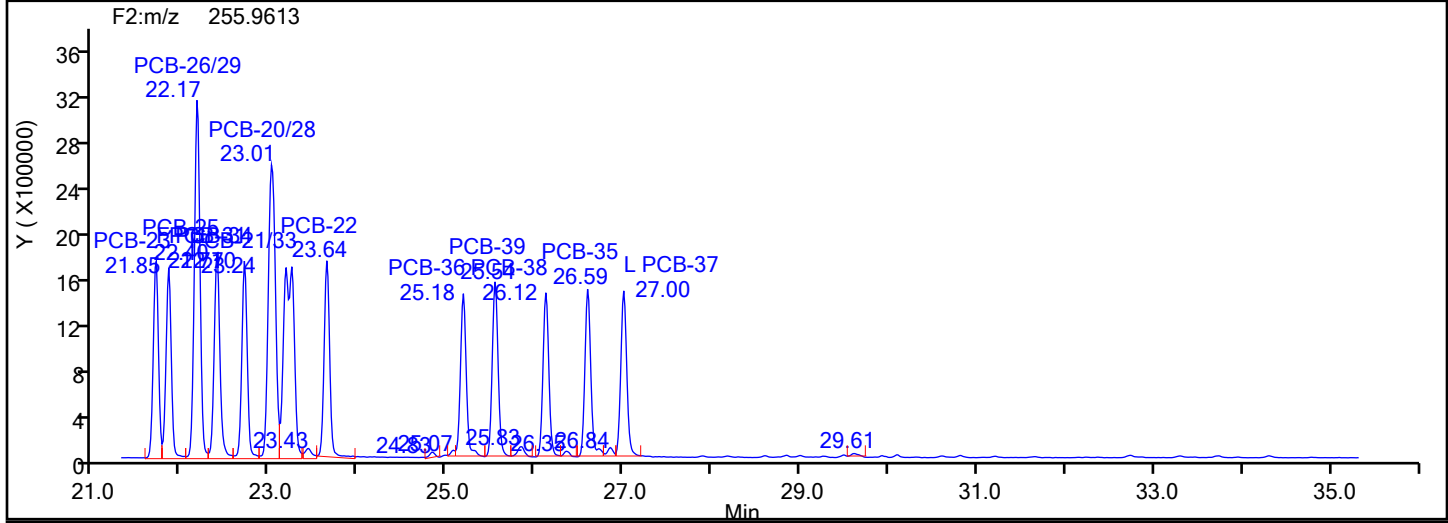
Worklist#: 88205

Sample Line#: 1

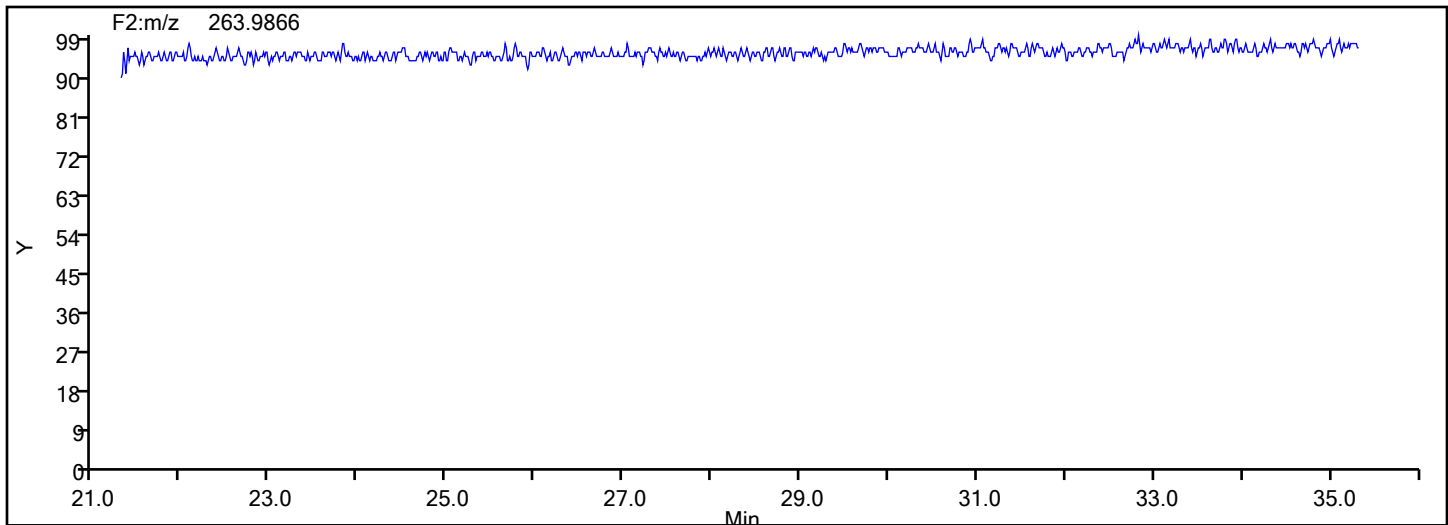
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

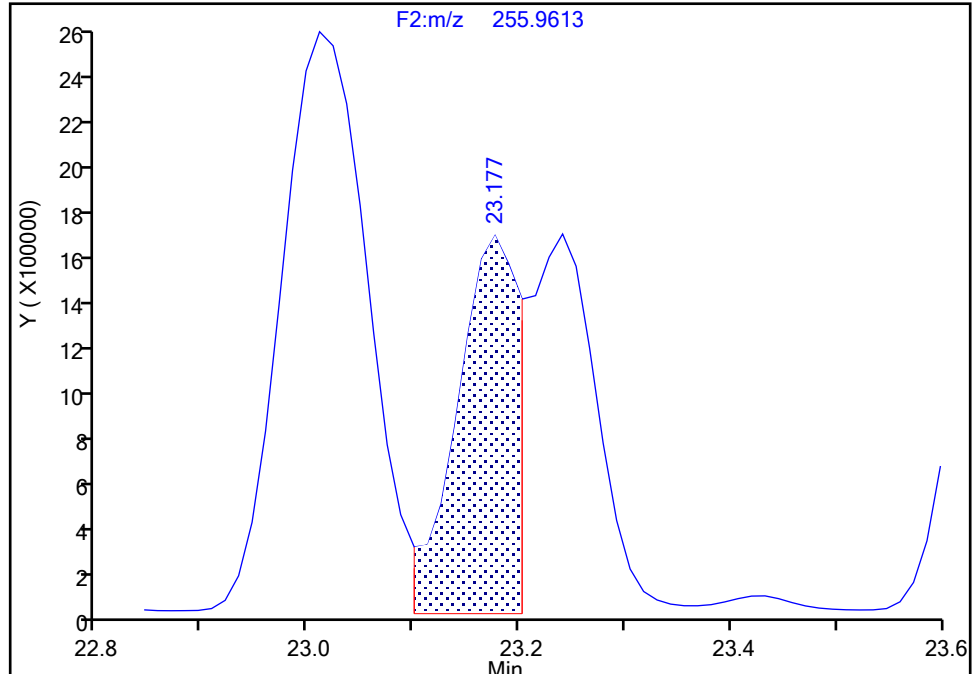
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

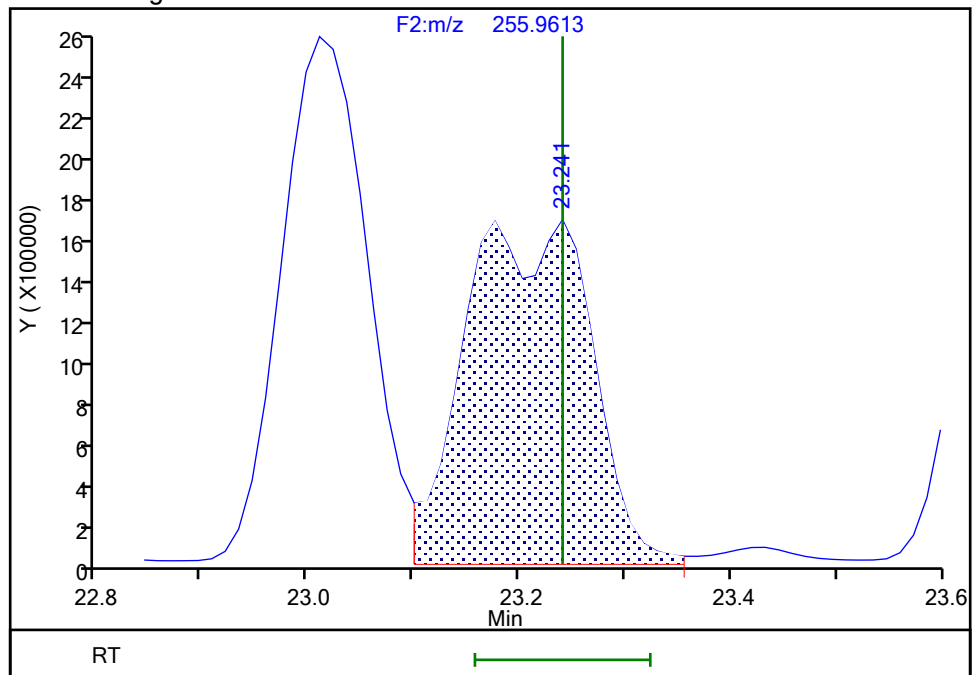
RT: 23.18  
Area: 6426357  
Amount: 53.150186  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.24  
Area: 13684353  
Amount: 103.7791  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:12:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

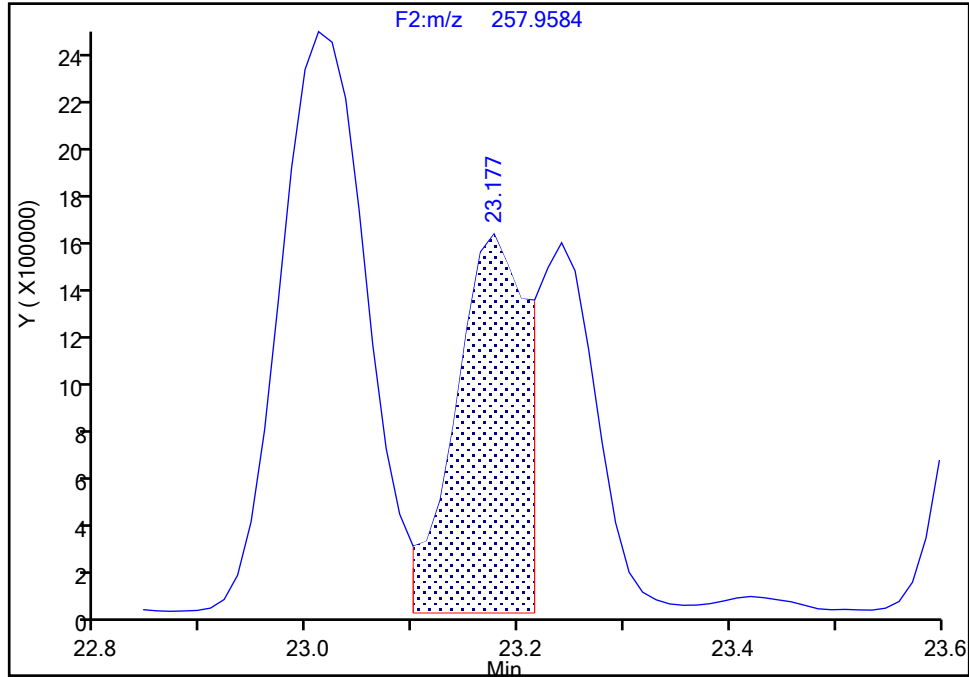
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

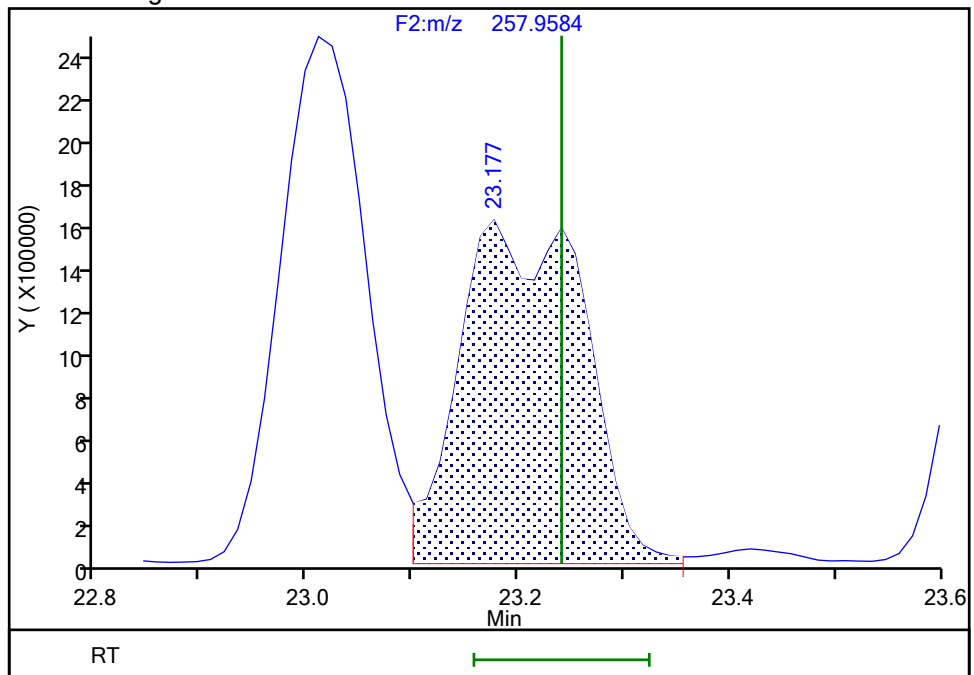
RT: 23.18  
Area: 7225136  
Amount: 53.150186  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.18  
Area: 12971052  
Amount: 103.7791  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:13:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04895  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

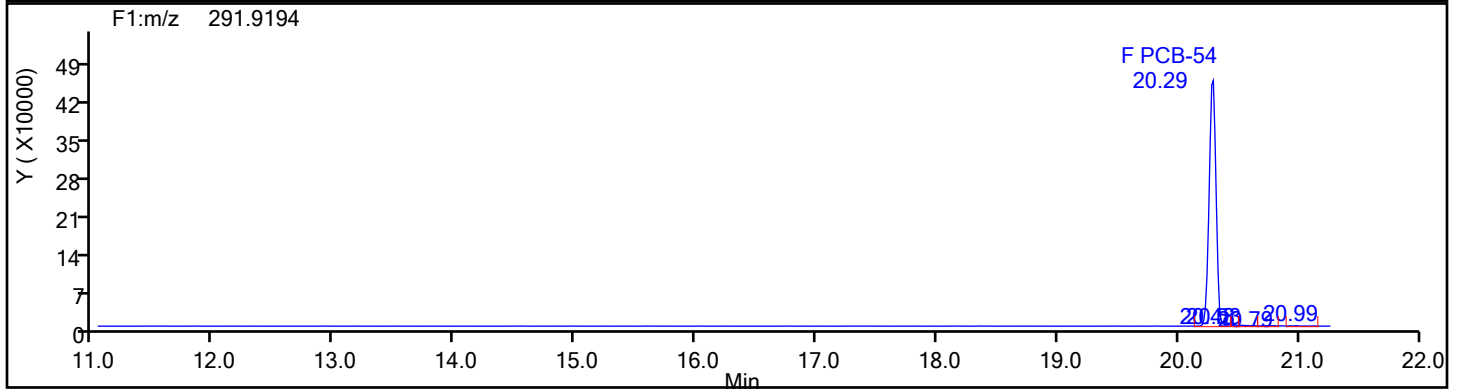
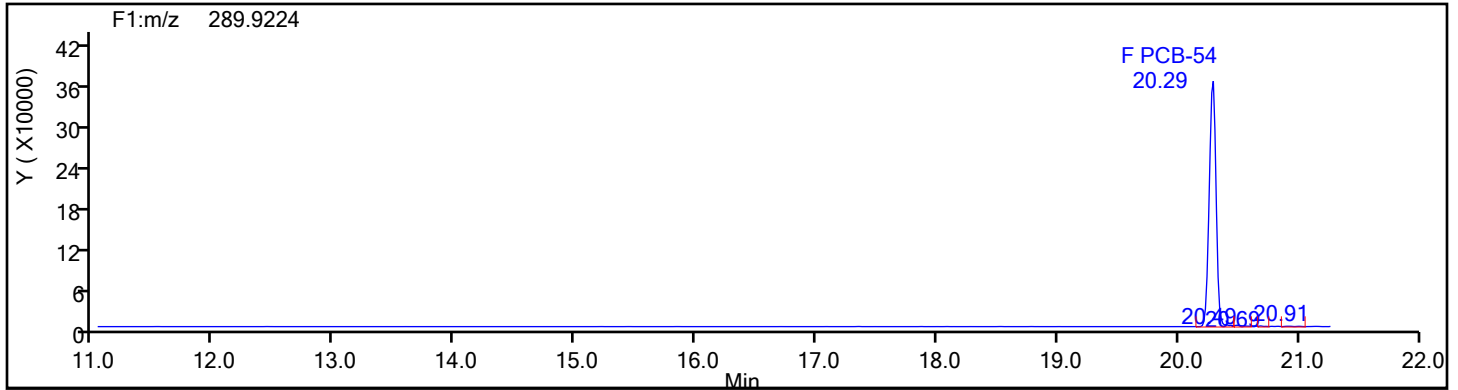
Worklist#: 88205

Sample Line#: 1

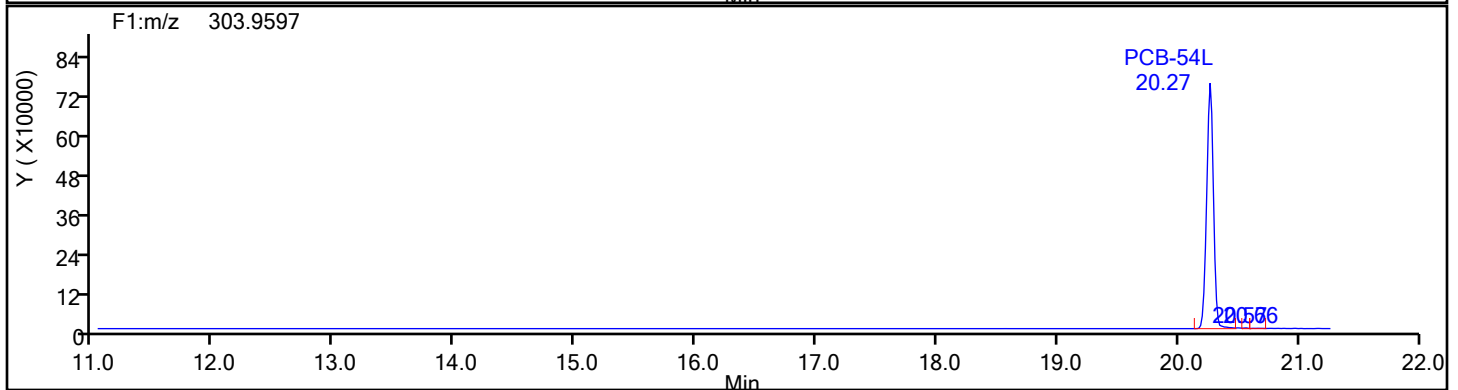
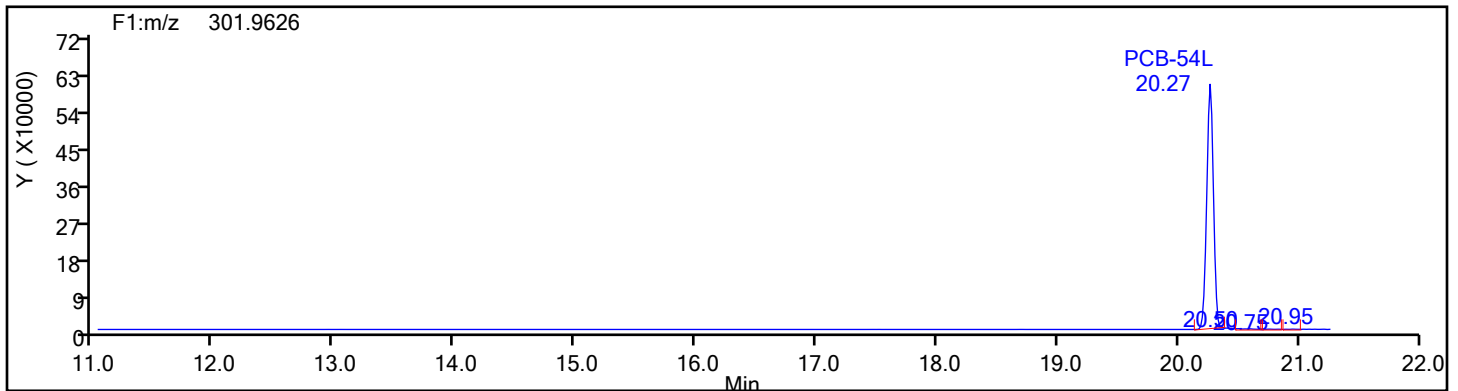
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

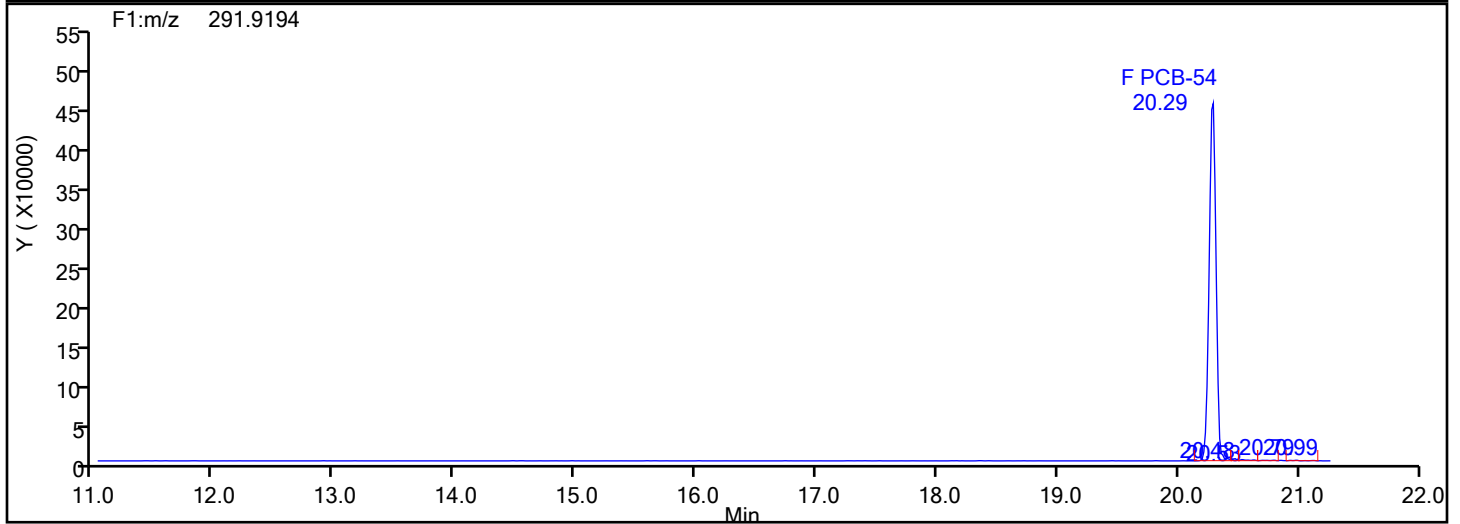
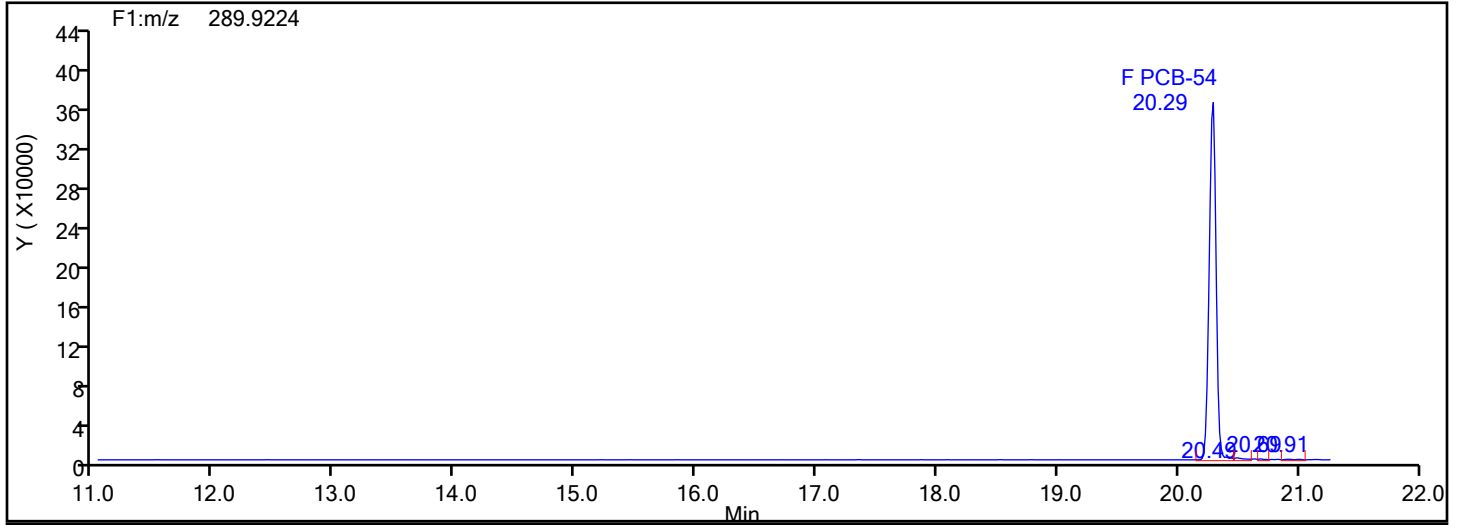


TePCB F1 Standards

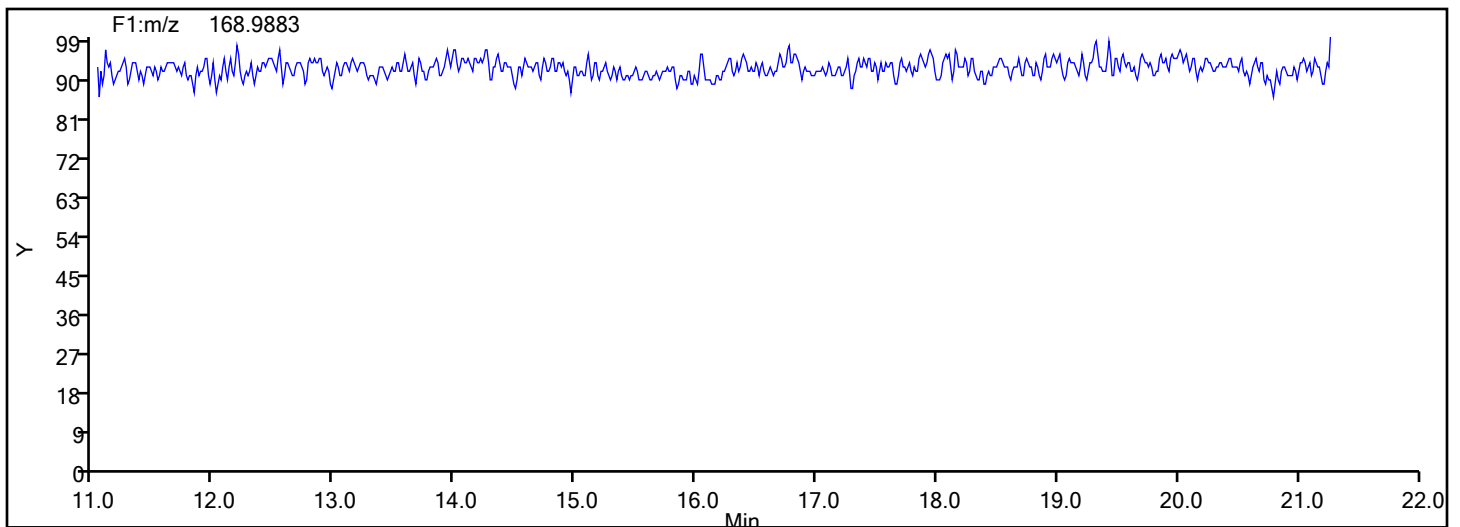


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1



## TePCB F1 Lock Mass



Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Vol: 1.0 ul

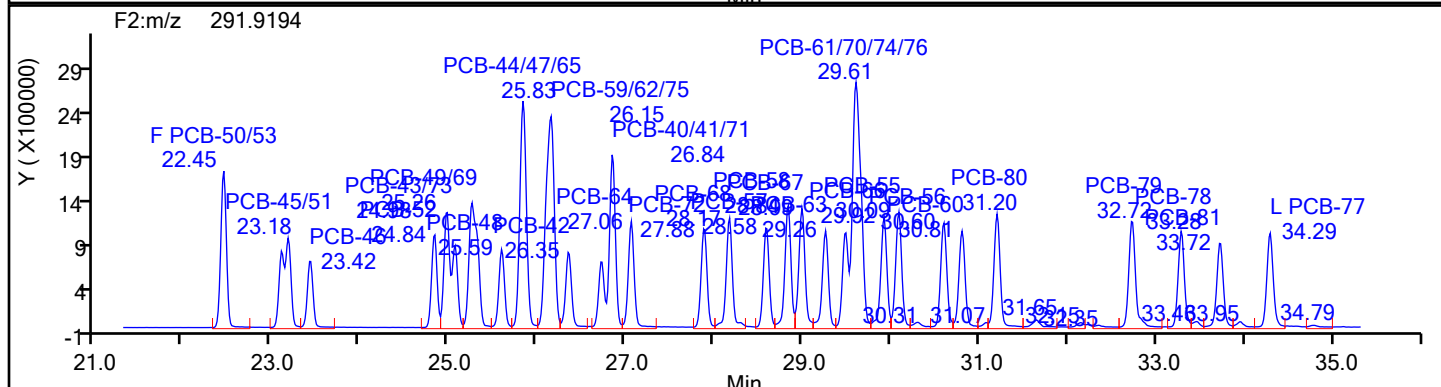
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

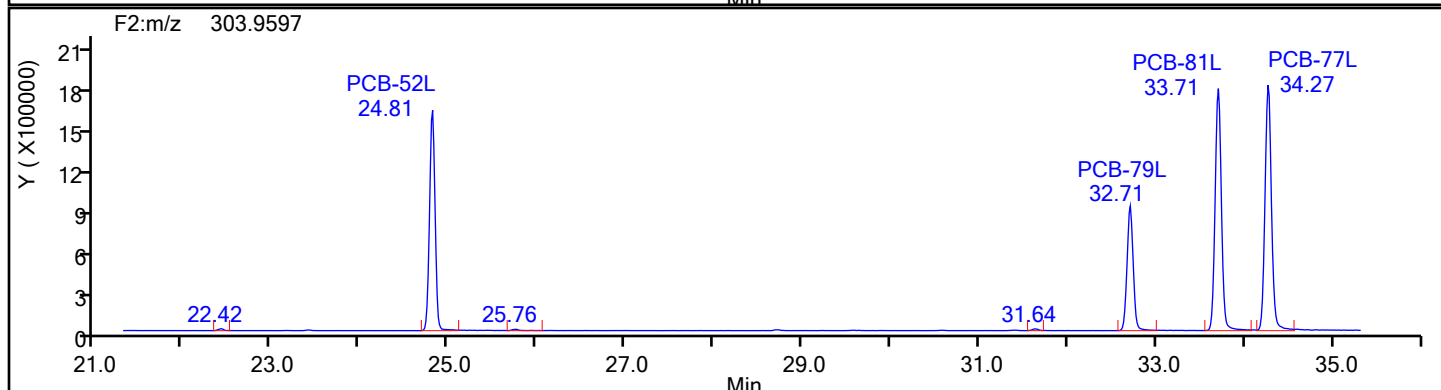
Sample Line#: 1

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

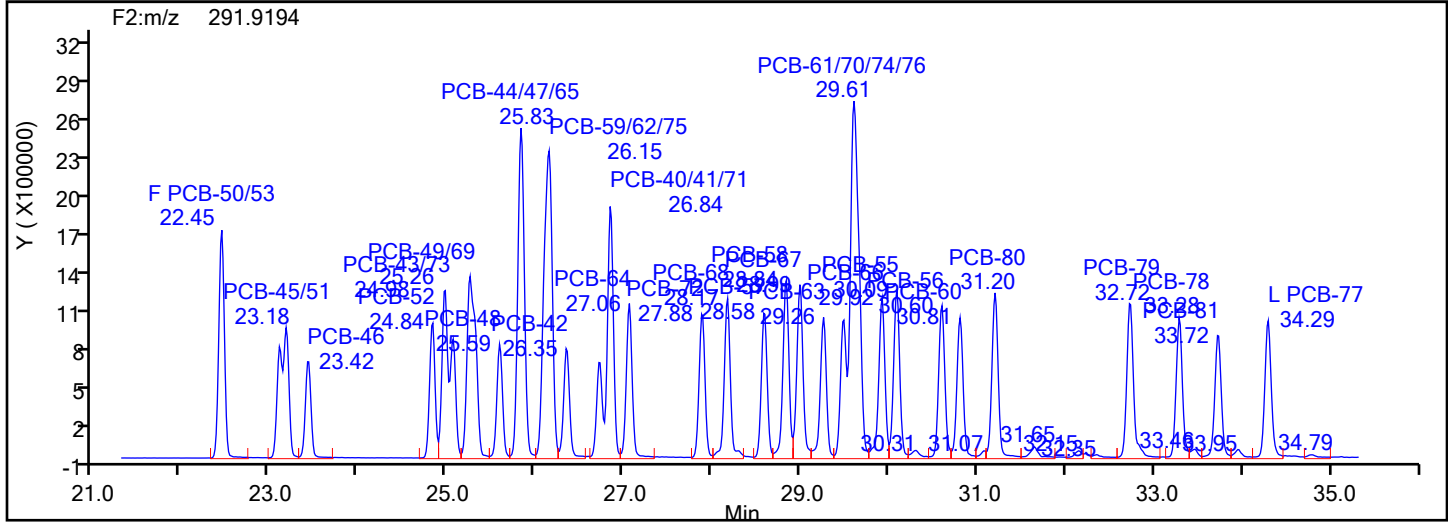
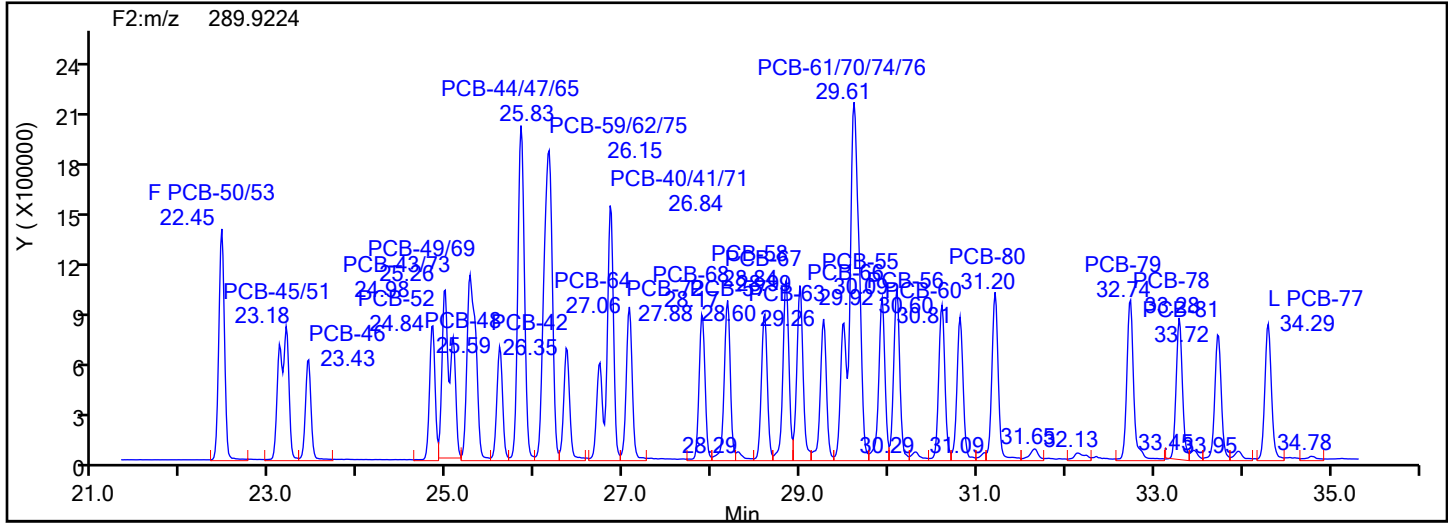
Worklist#: 88205

Sample Line#: 1

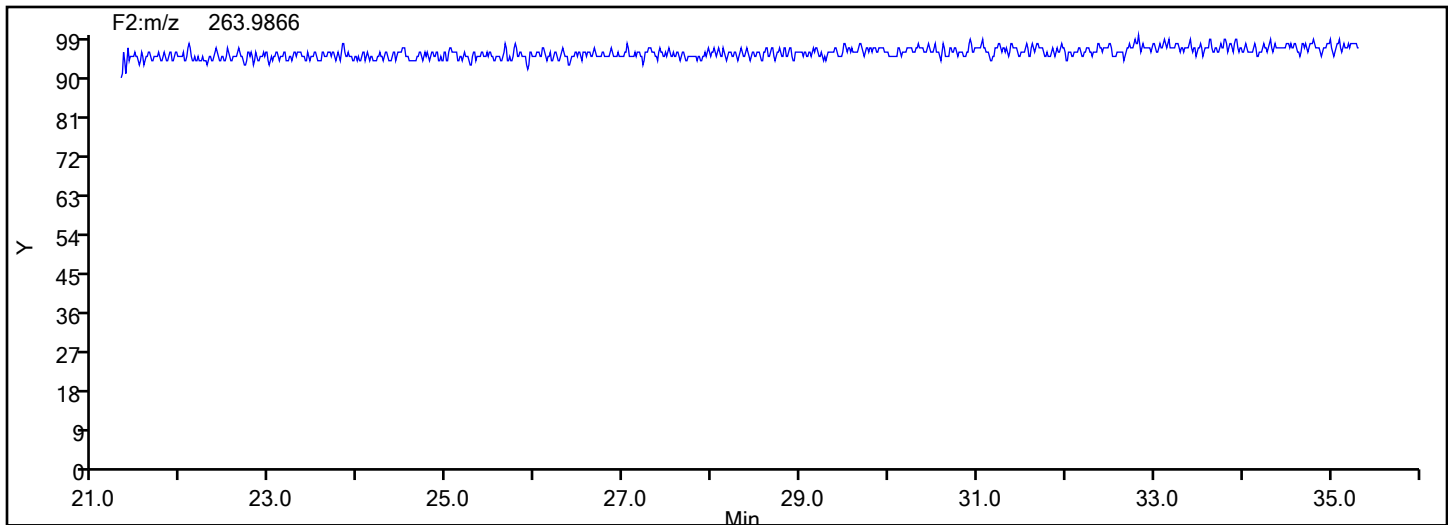
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

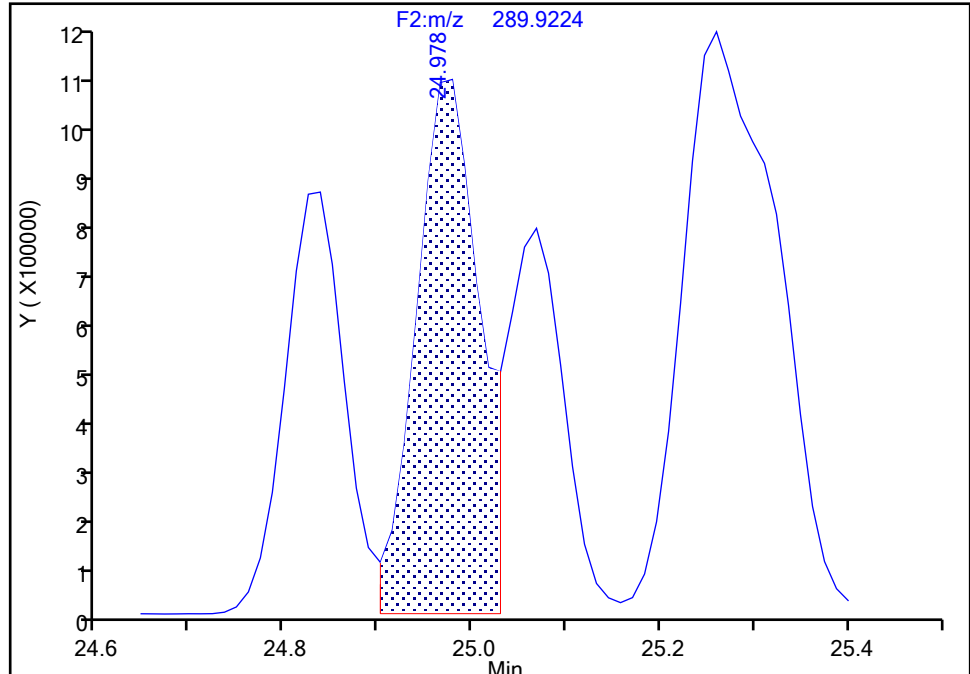
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 1

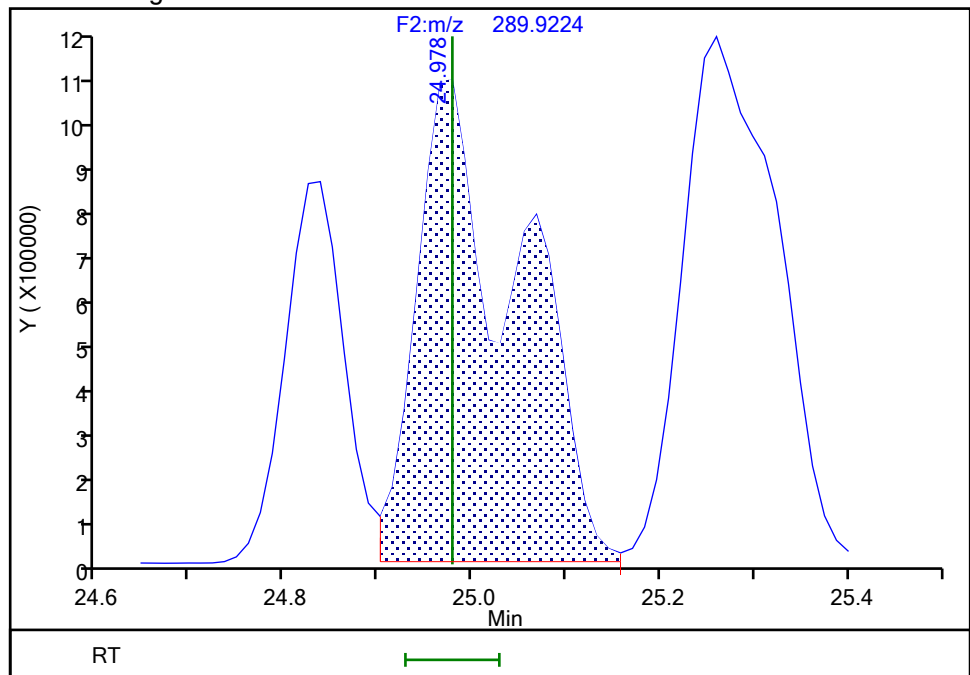
RT: 24.98  
Area: 4758142  
Amount: 60.345862  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.98  
Area: 7711898  
Amount: 102.9198  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:13:35 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

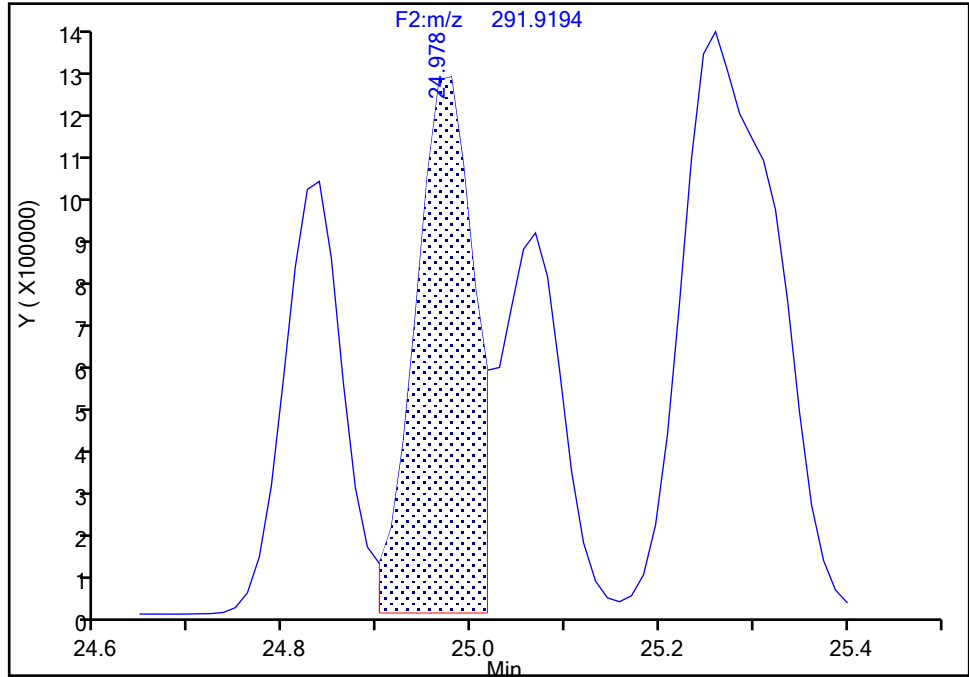
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

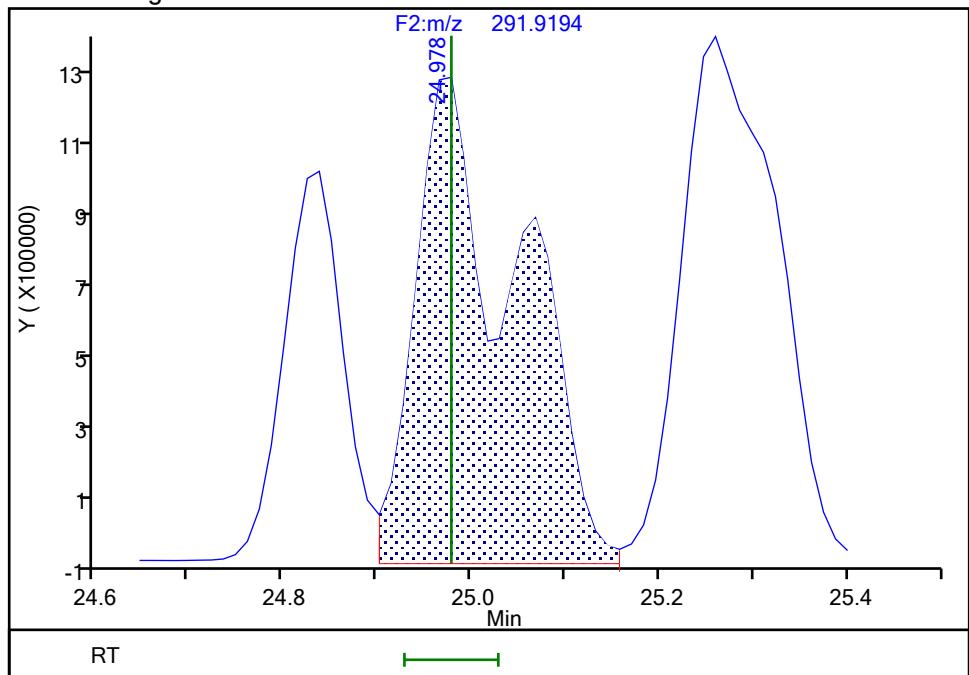
RT: 24.98  
Area: 5475809  
Amount: 60.345862  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.98  
Area: 9742091  
Amount: 102.9198  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:13:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-000004901  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

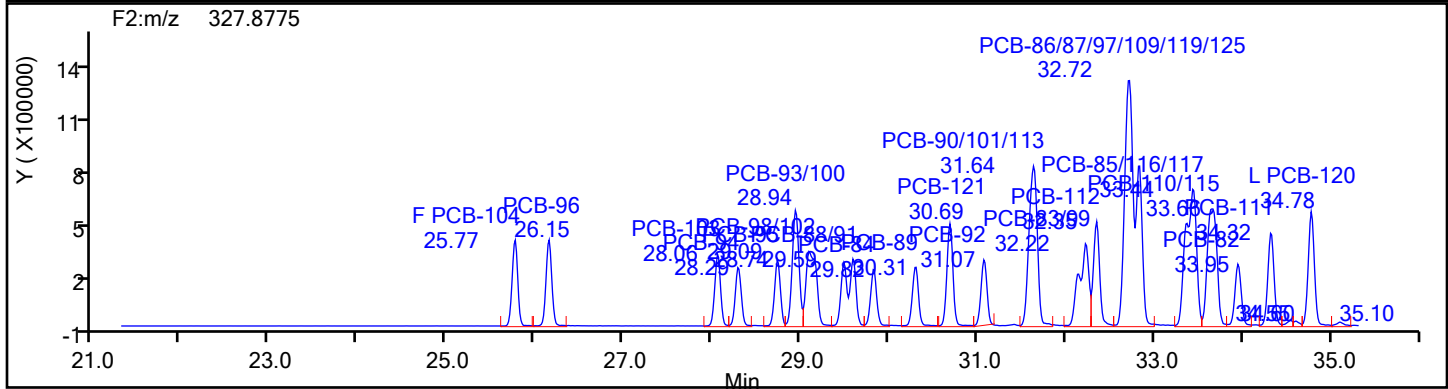
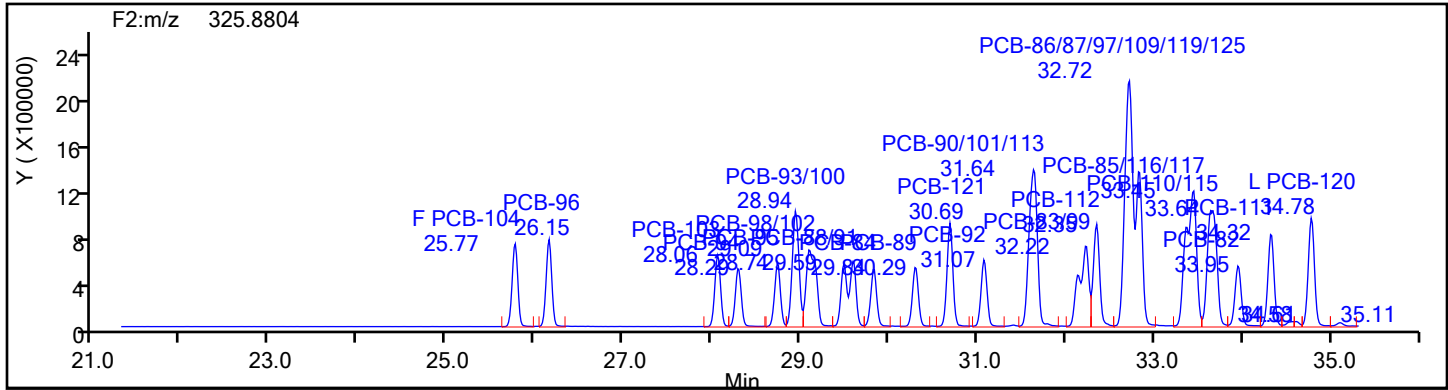
Worklist#: 88205

Sample Line#: 1

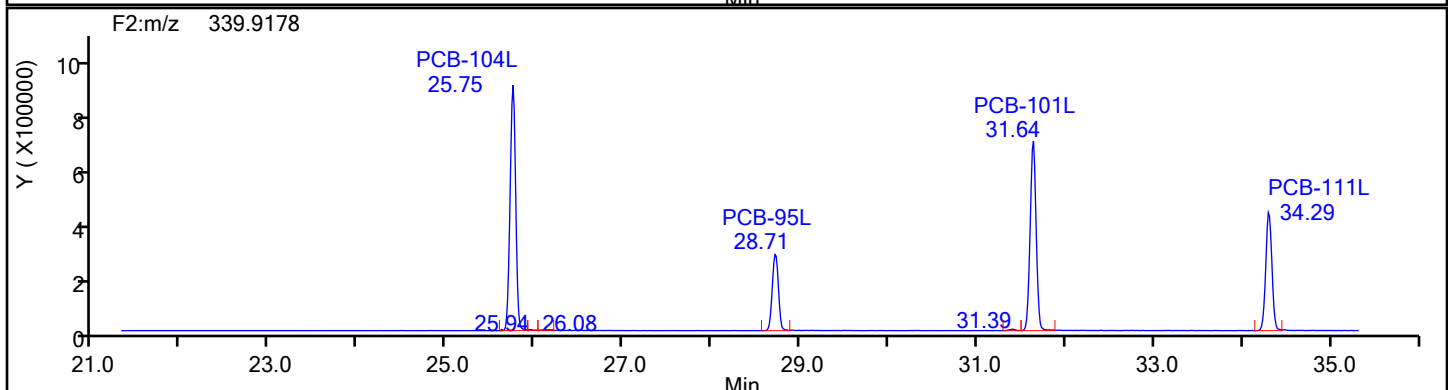
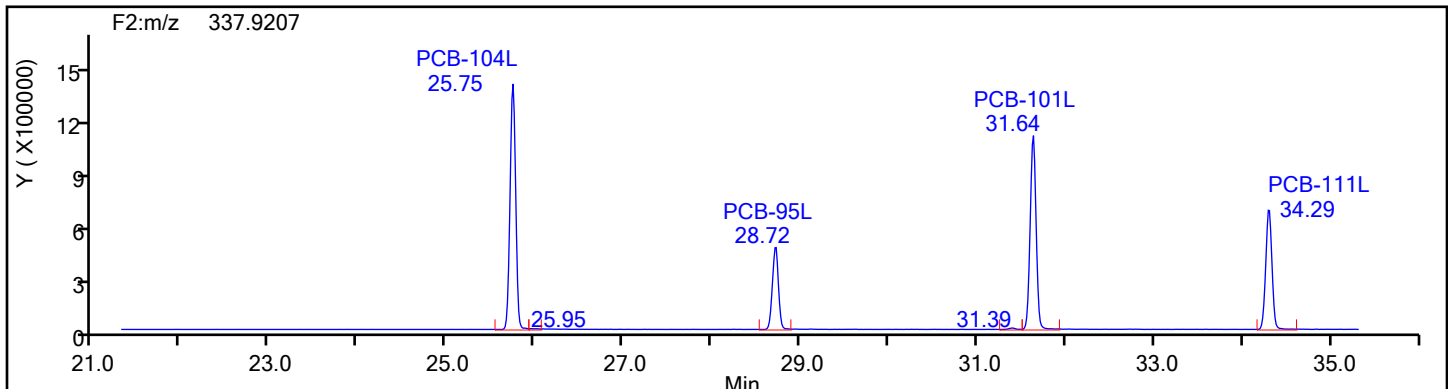
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



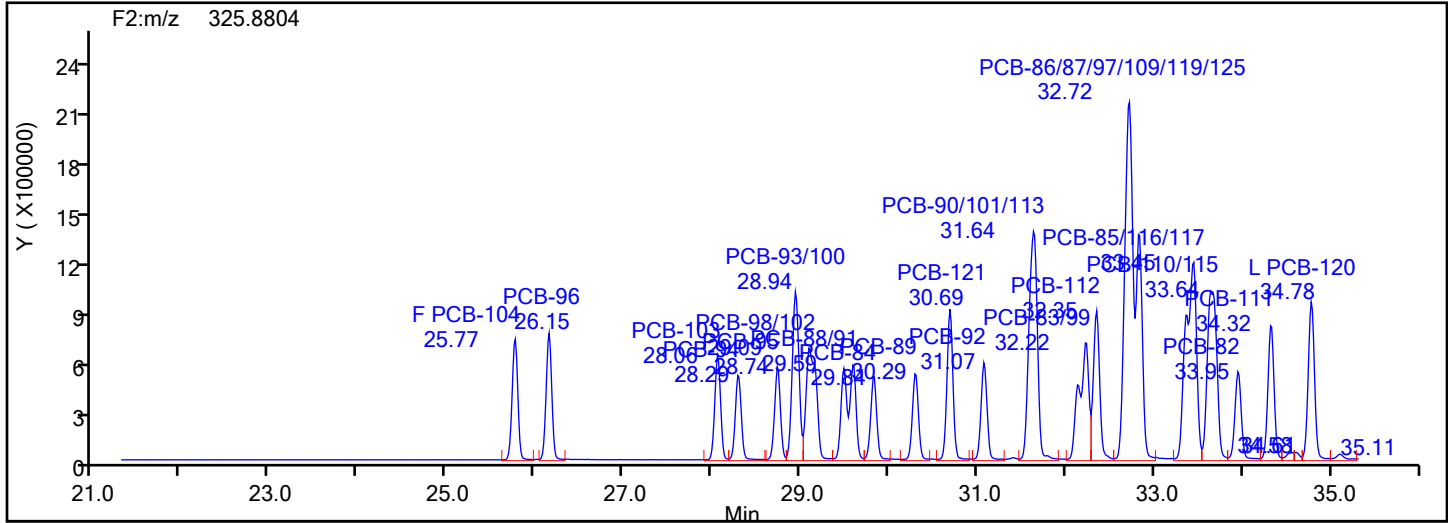
## PePCB F2 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



## Eurofins Knoxville

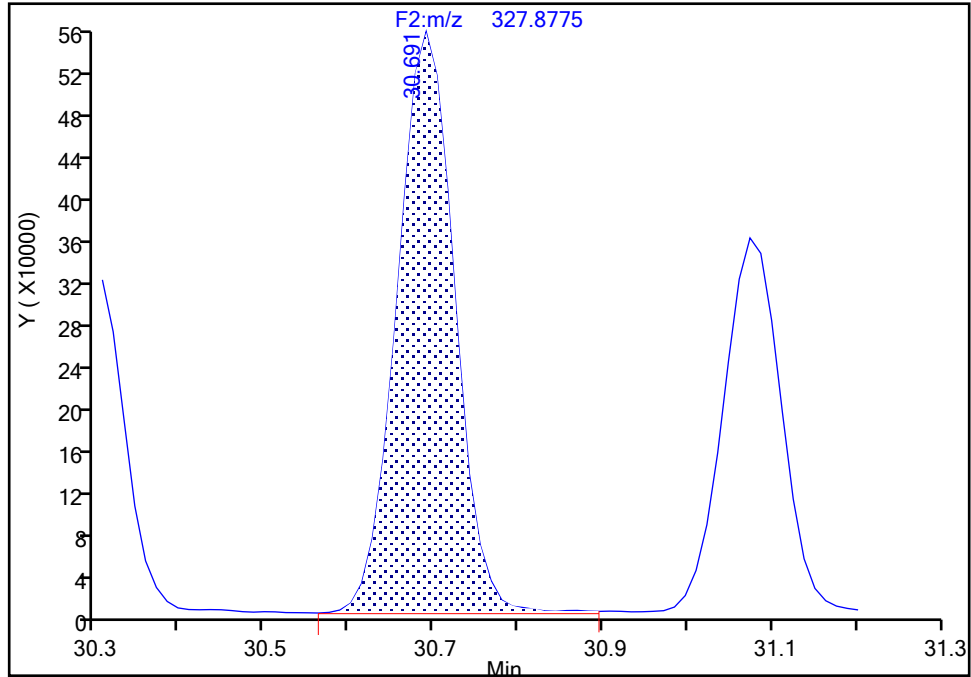
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-121, CAS: 56558-18-0**

Signal: 2

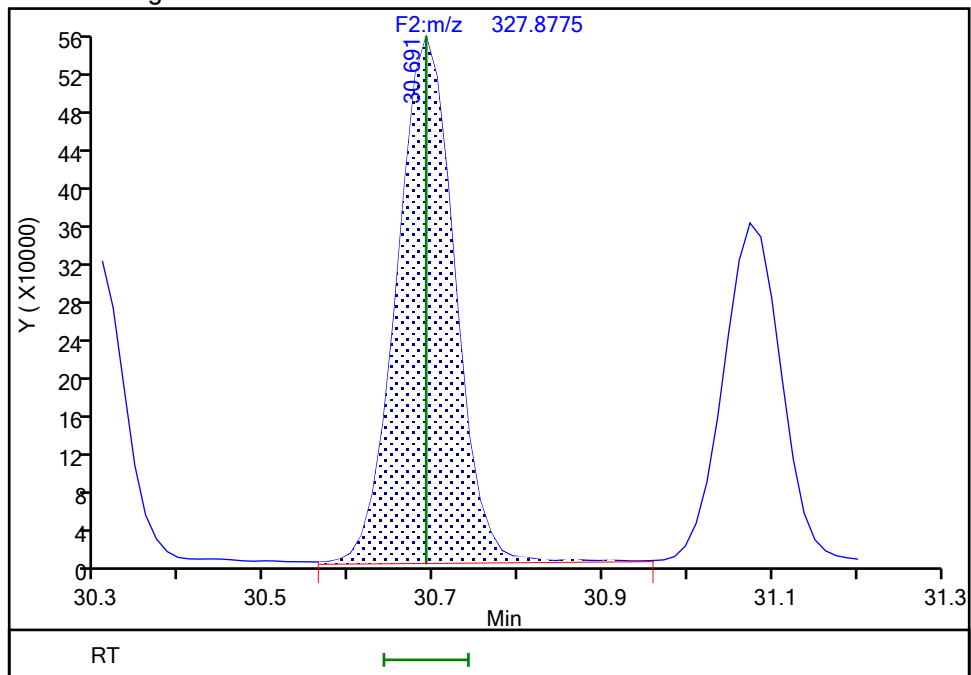
RT: 30.69  
Area: 2632948  
Amount: 53.522337  
Amount Units: pg/ul

## Processing Integration Results



RT: 30.69  
Area: 2628532  
Amount: 53.487913  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:16:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

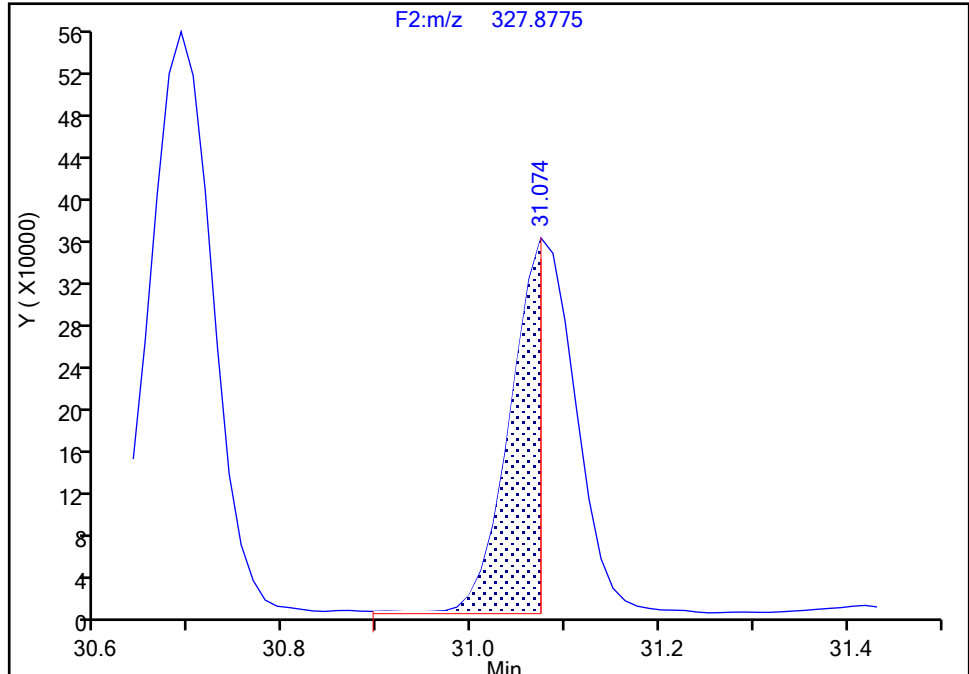
Detector F2(21.81 :35.54 )

**PCB-92, CAS: 52663-61-3**

Signal: 2

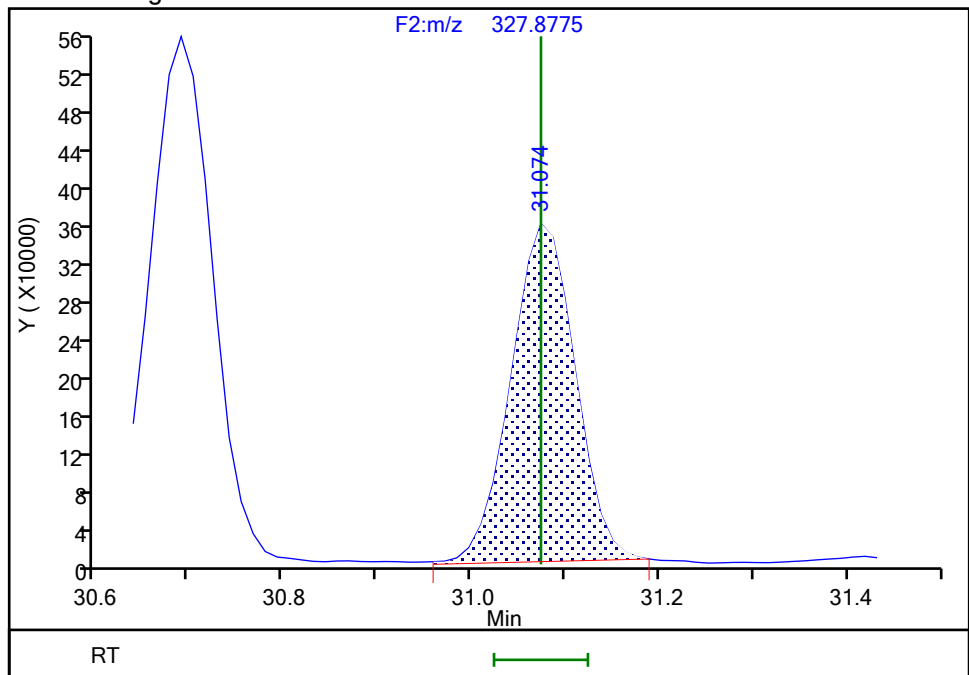
RT: 31.07  
Area: 810420  
Amount: 42.442467  
Amount Units: pg/ul

## Processing Integration Results



RT: 31.07  
Area: 1672798  
Amount: 52.640906  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:16:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

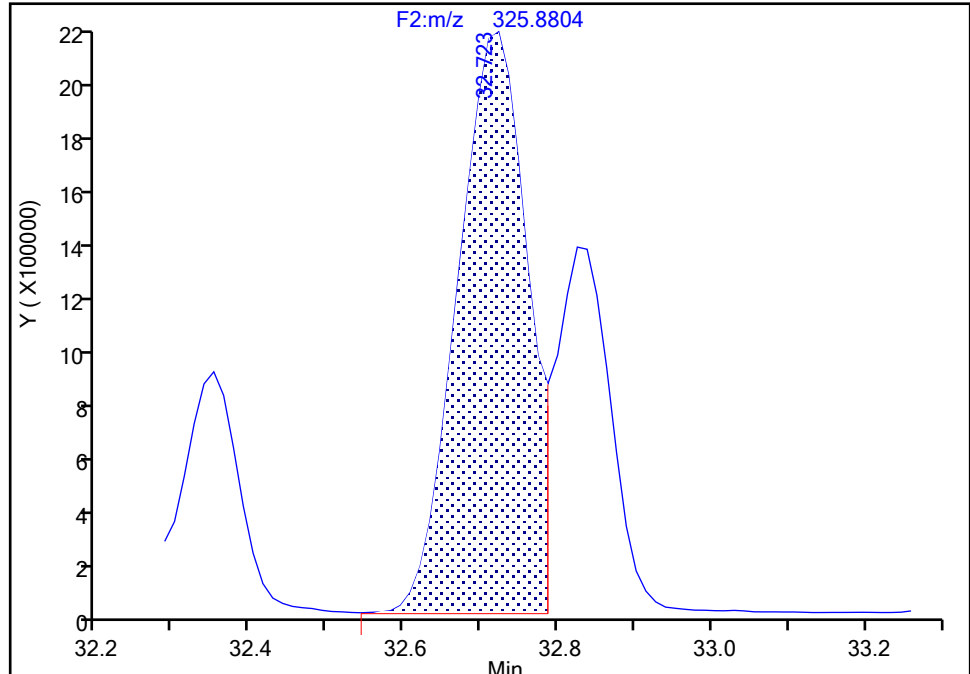
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

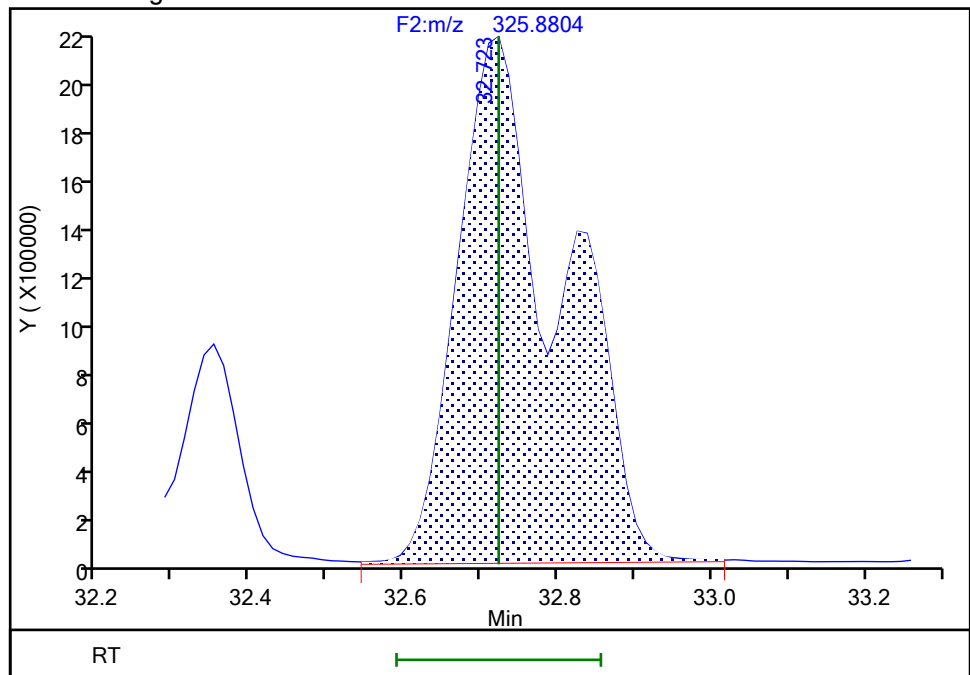
RT: 32.72  
Area: 13485331  
Amount: 212.0481  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.72  
Area: 20082468  
Amount: 316.3568  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:16:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

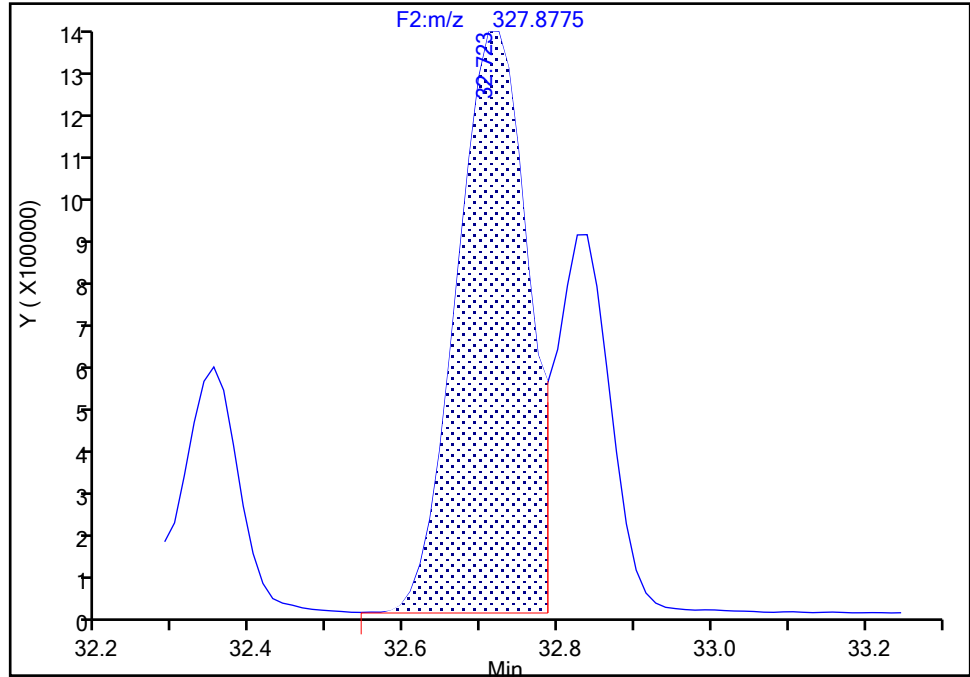
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

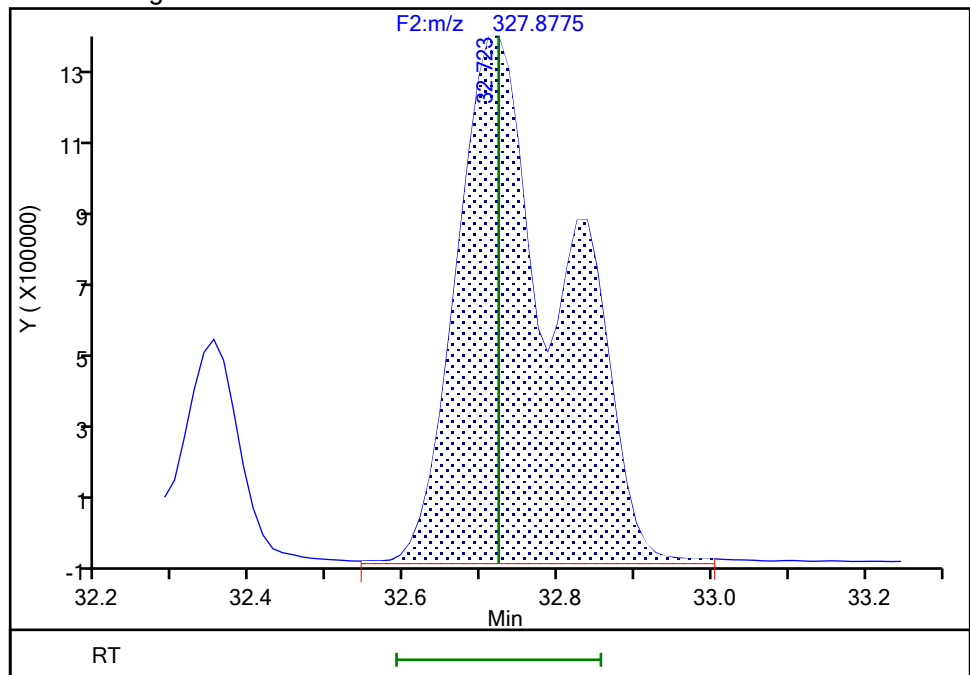
RT: 32.72  
Area: 8488989  
Amount: 212.0481  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.72  
Area: 12701248  
Amount: 316.3568  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:16:56 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04907  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

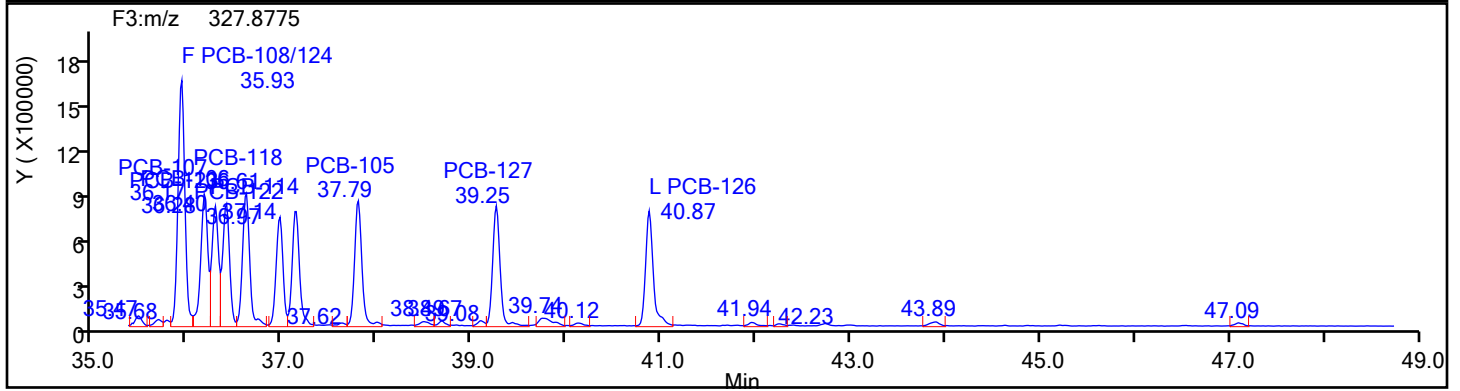
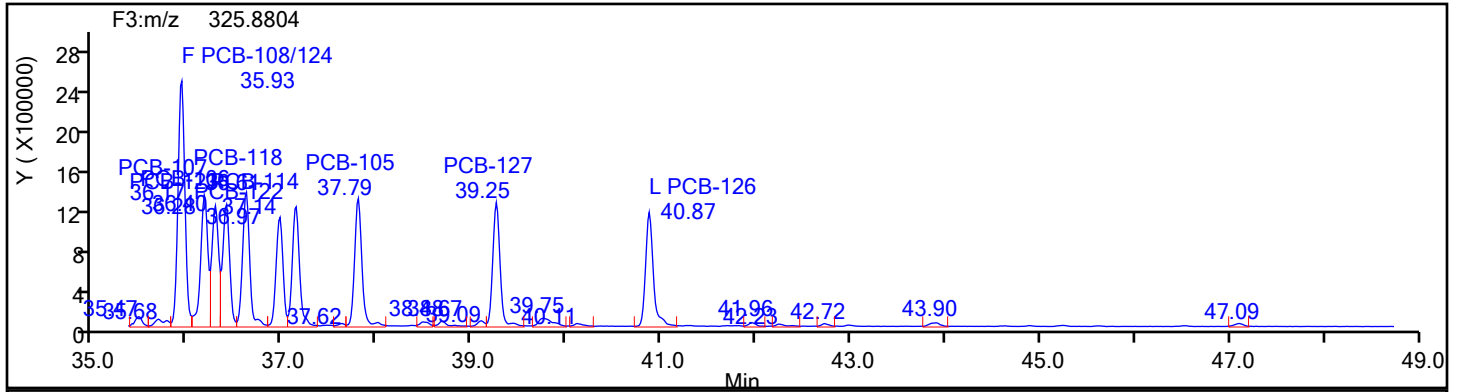
Worklist#: 88205

Sample Line#: 1

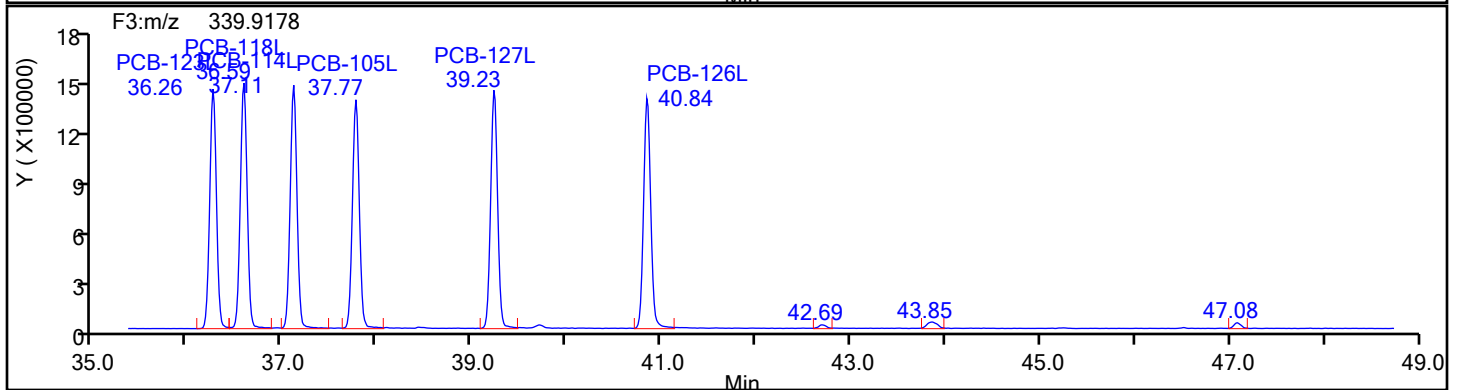
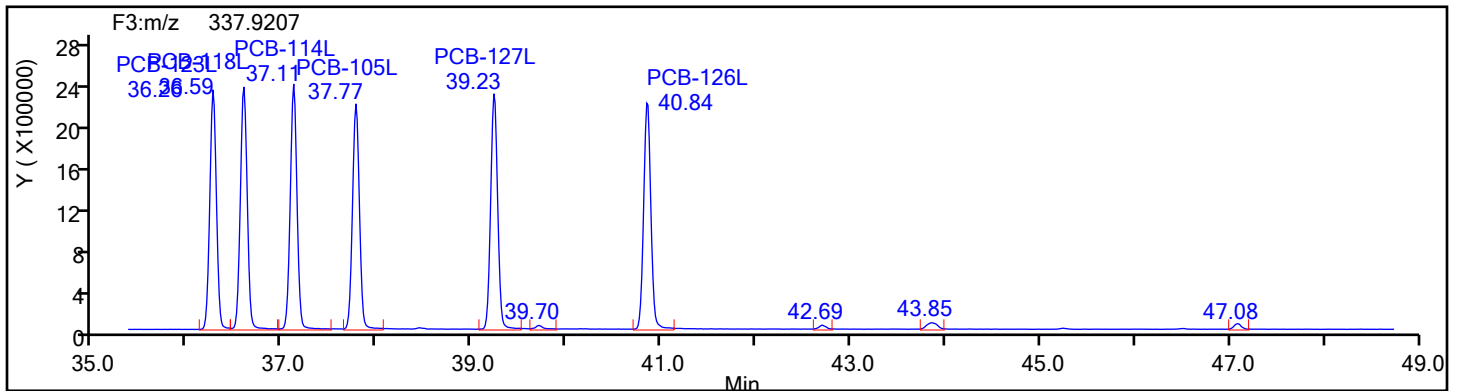
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

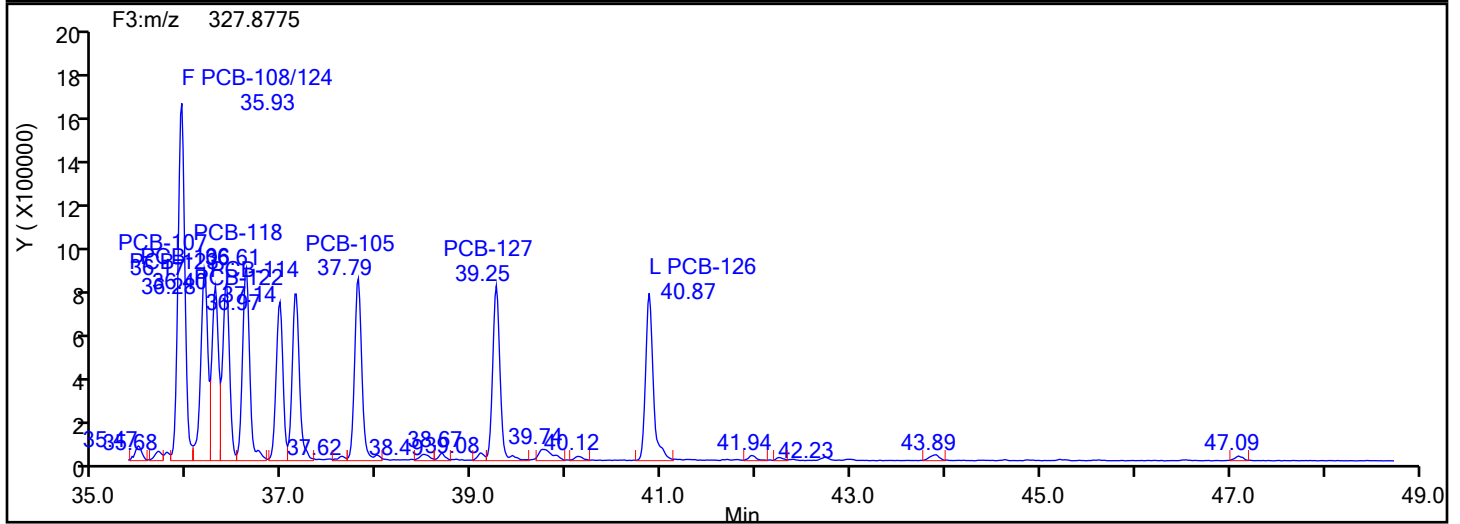
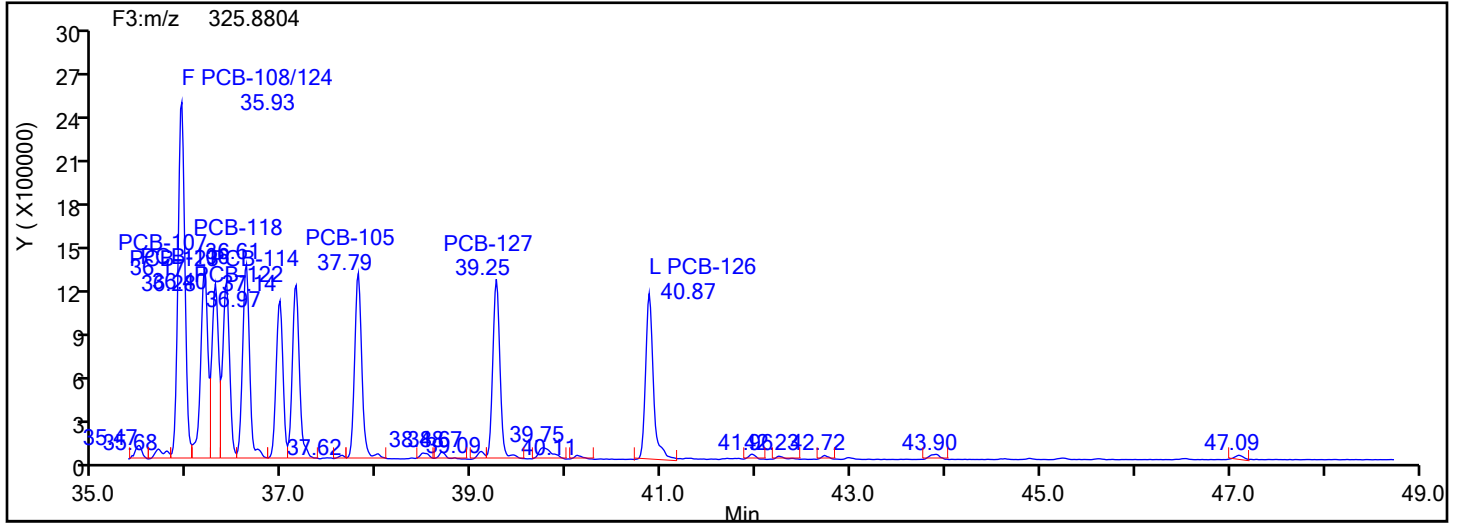
Worklist#: 88205

Sample Line#: 1

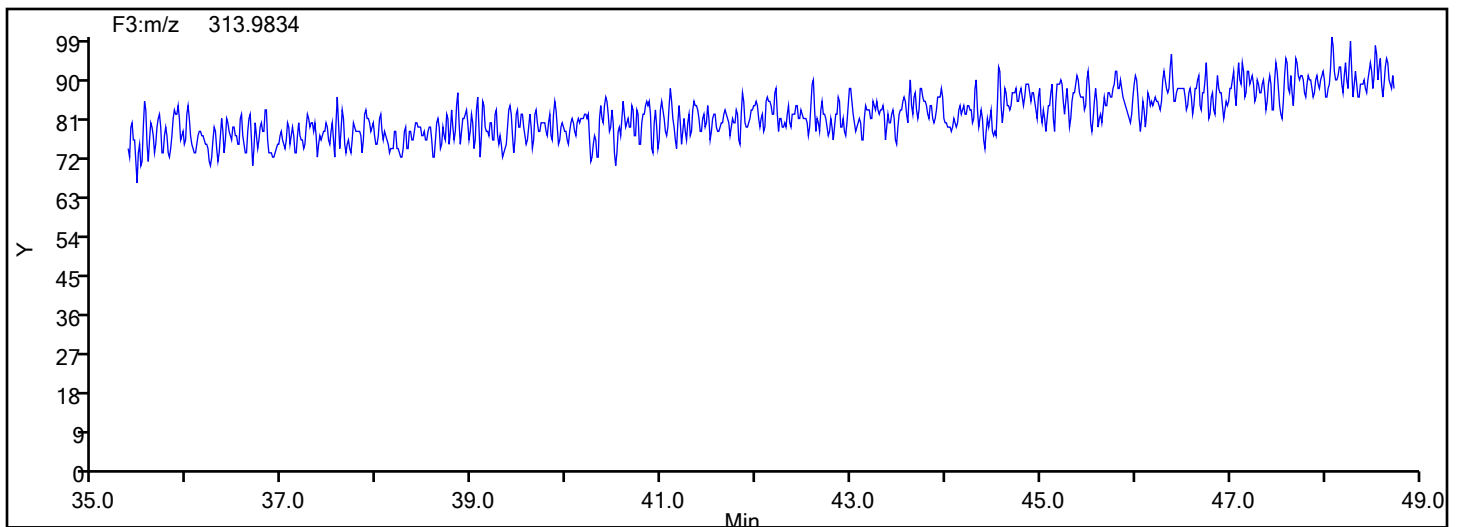
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

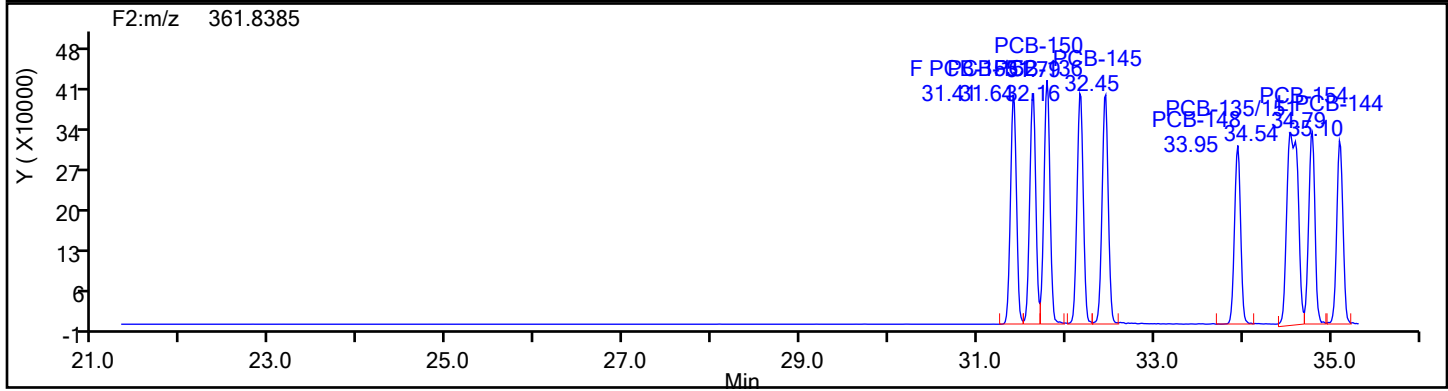
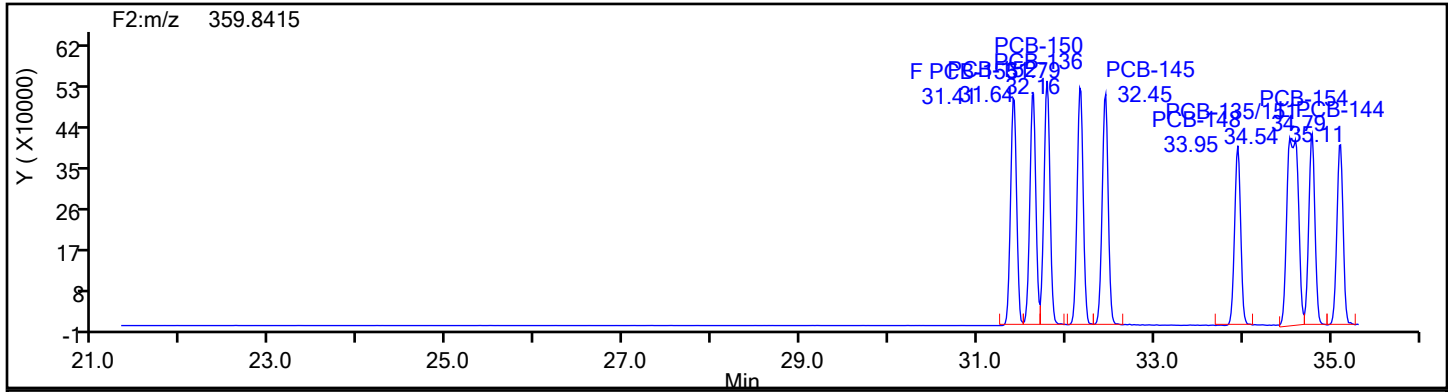


## PePCB F3 Lock Mass

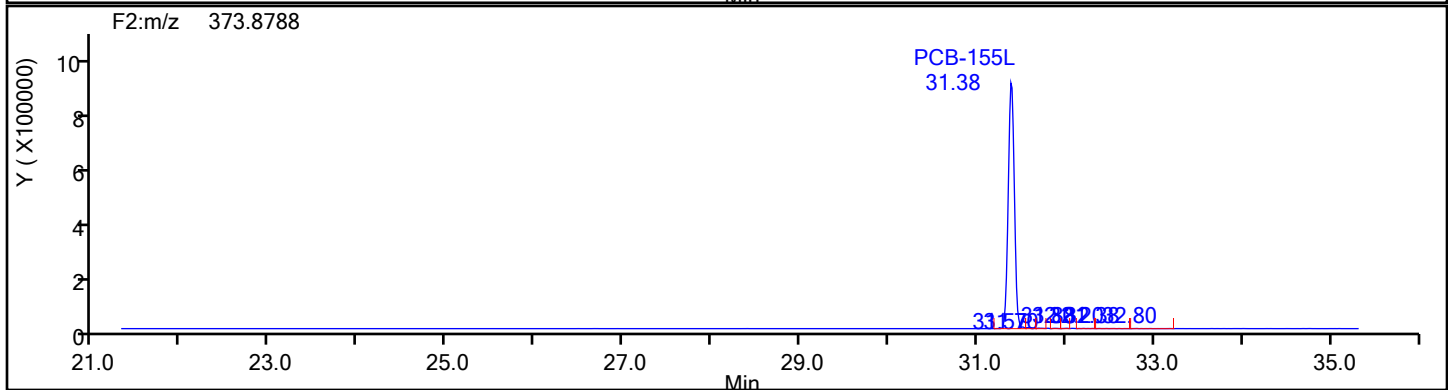
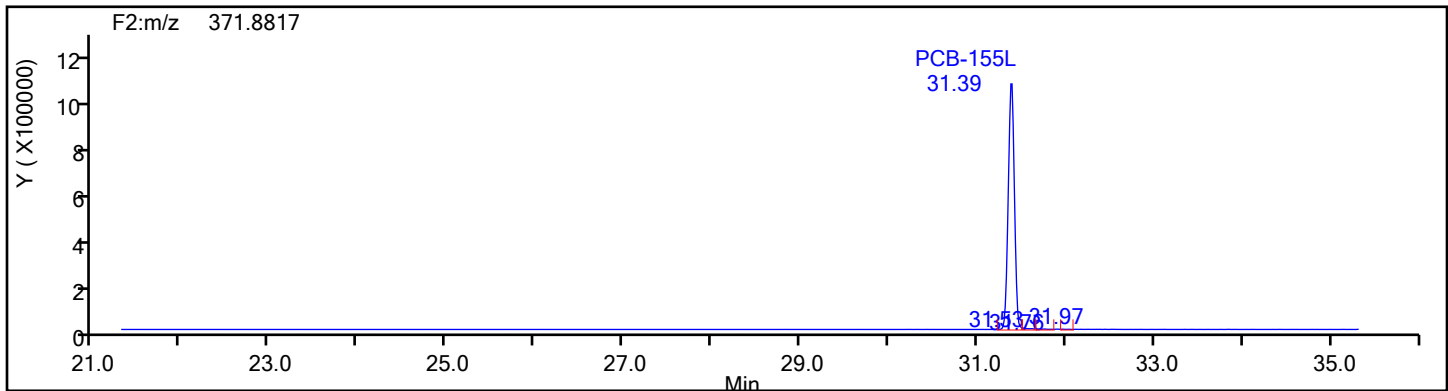


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



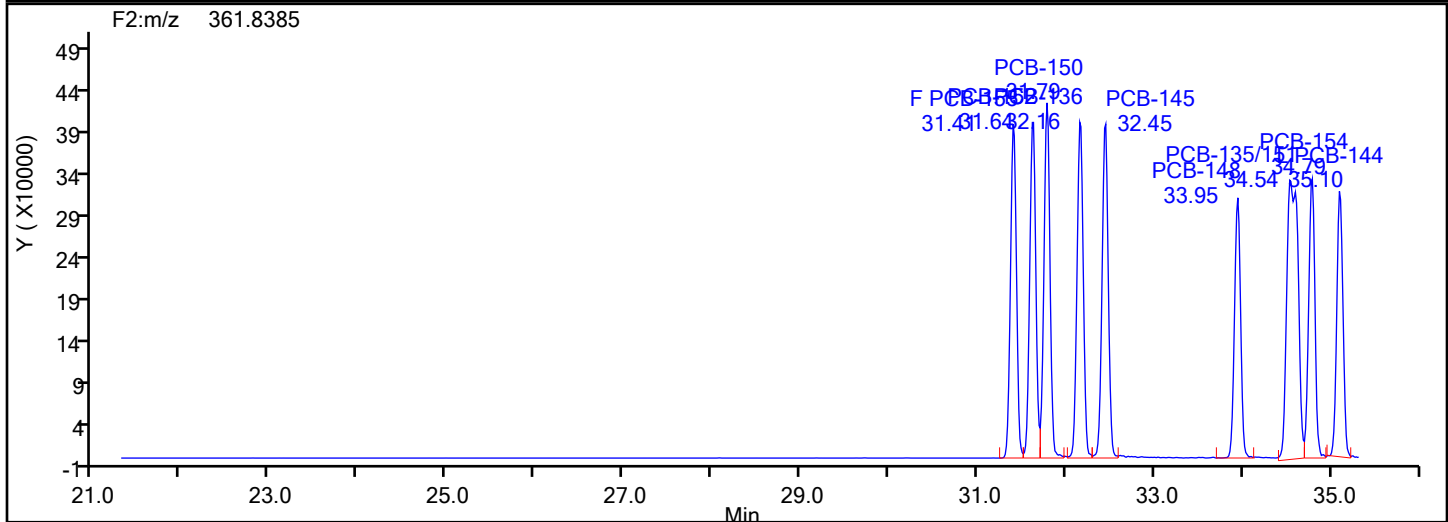
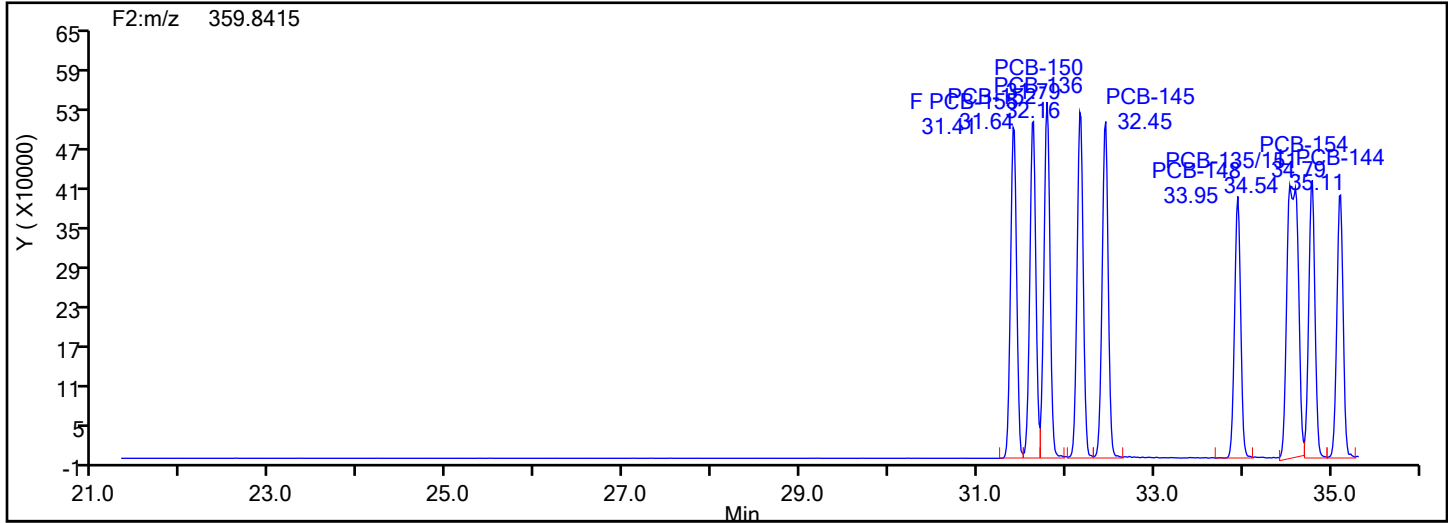
## HxPCB F2 Standards



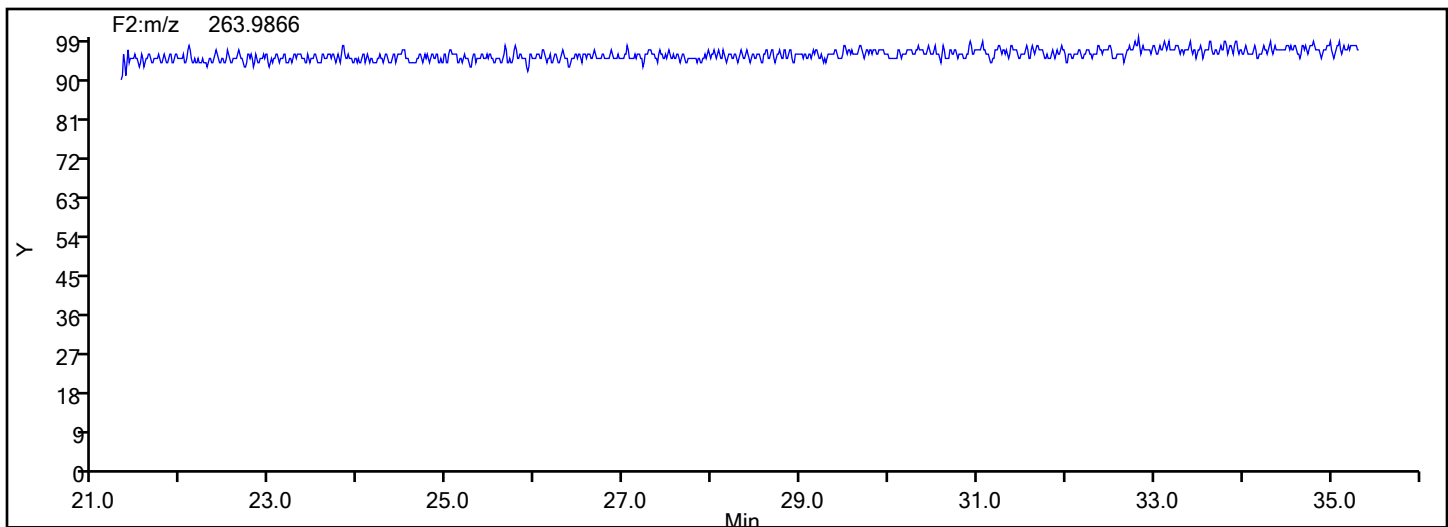


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

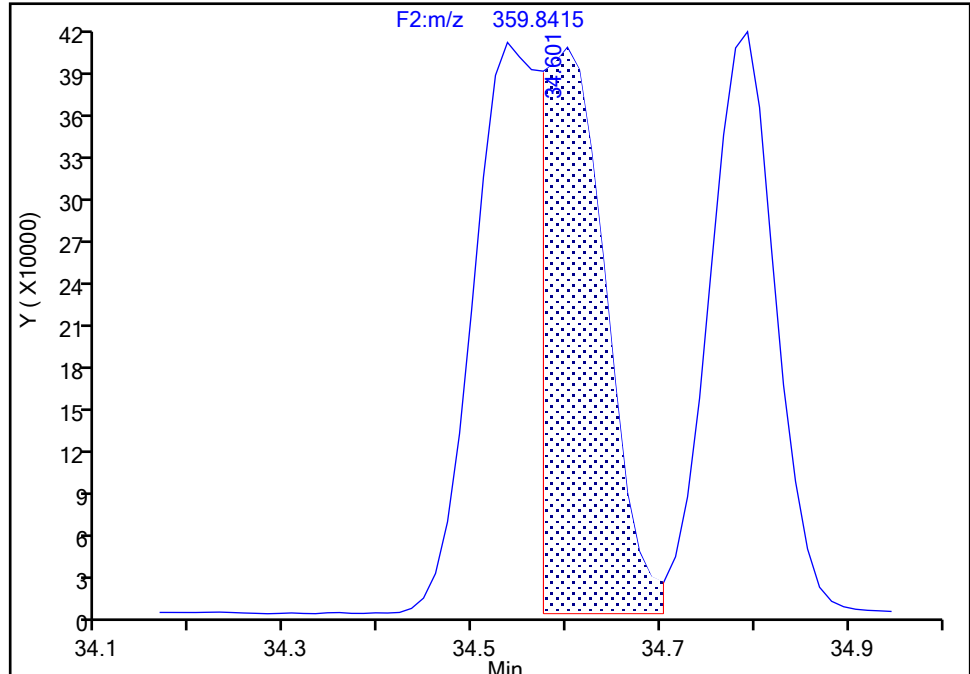
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Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 1

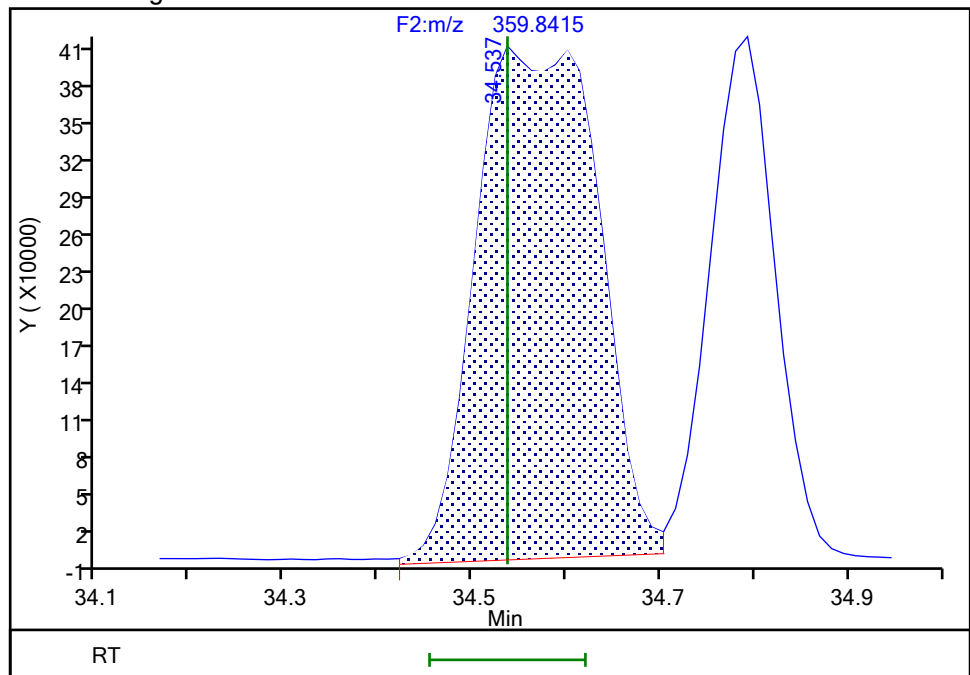
RT: 34.60  
Area: 1769568  
Amount: 47.907123  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.54  
Area: 3703850  
Amount: 101.8817  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:17:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

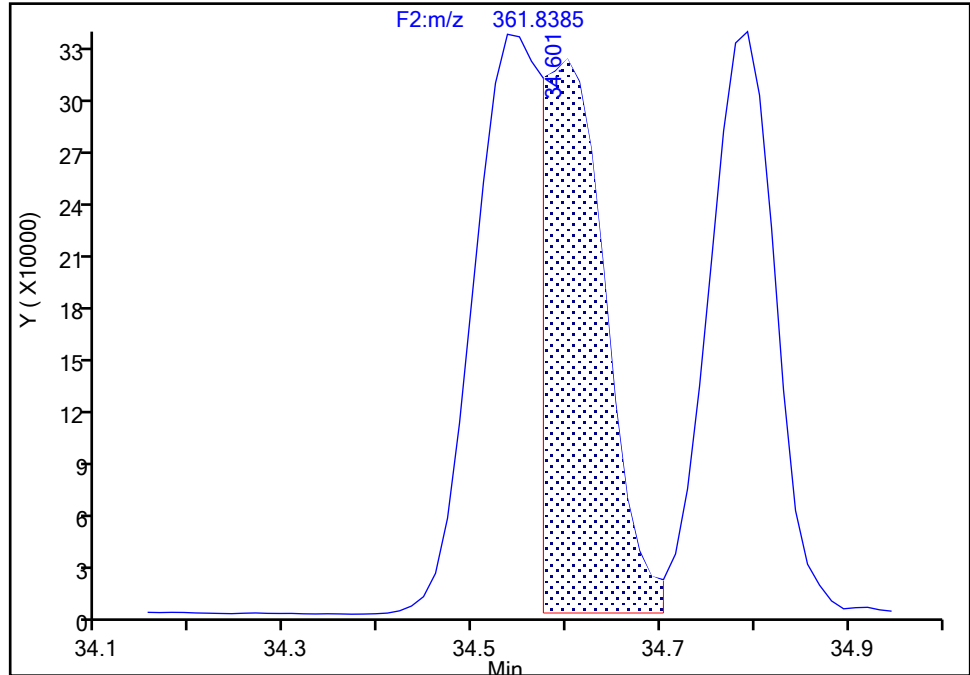
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 2

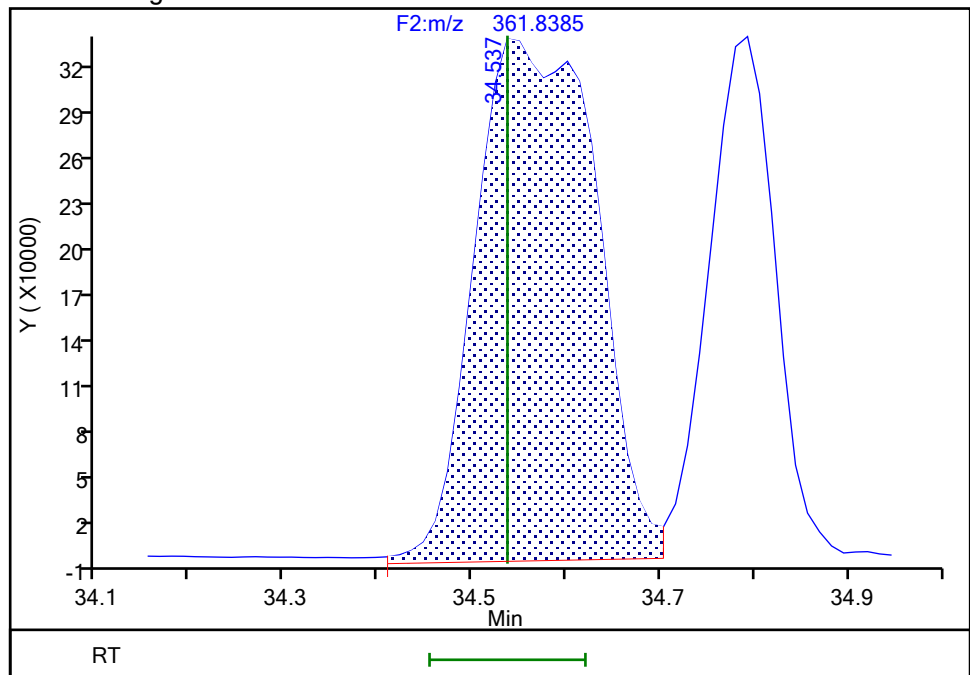
RT: 34.60  
Area: 1379577  
Amount: 47.907123  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.54  
Area: 2993277  
Amount: 101.8817  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:17:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04913  
9/6/2024  
3:53:39 PM

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

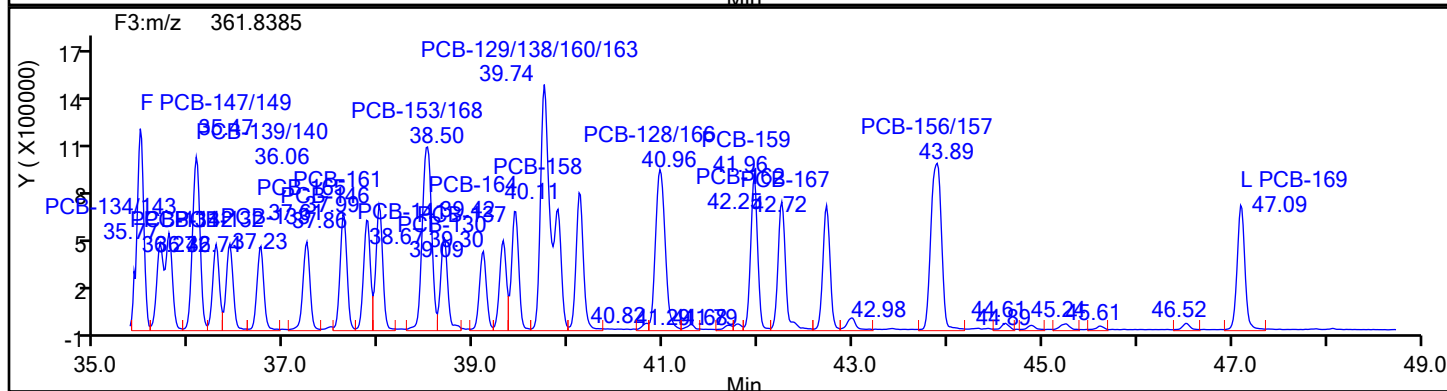
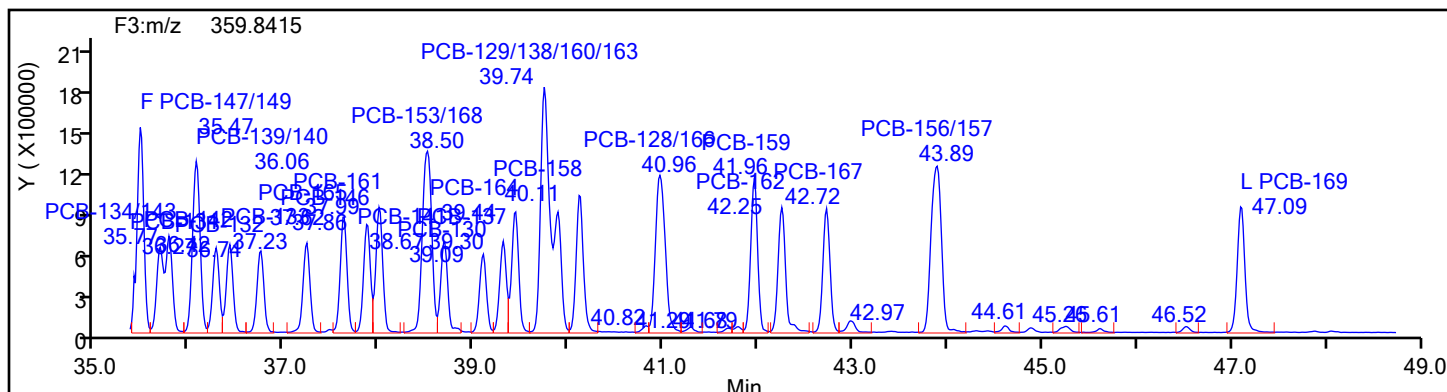
Worklist#: 88205

Sample Line#: 1

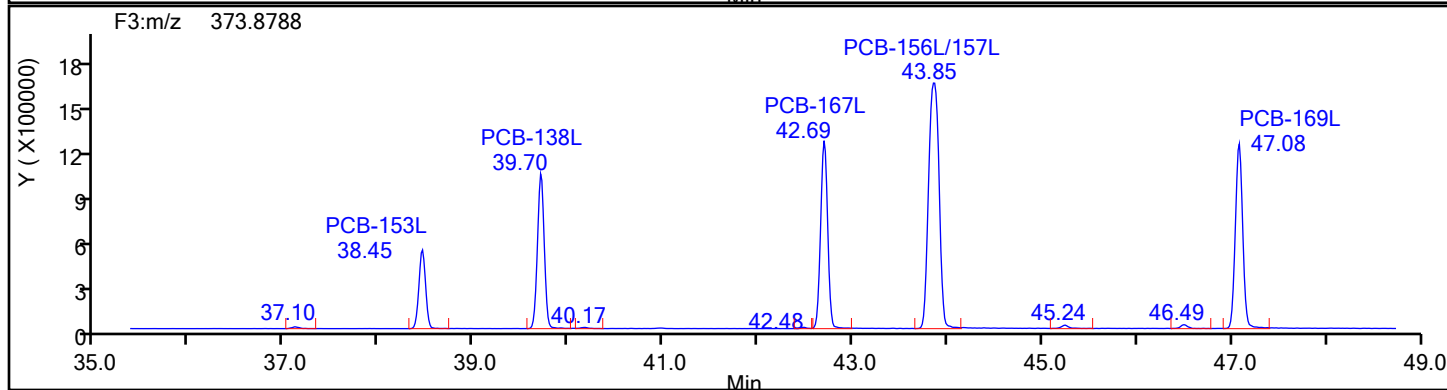
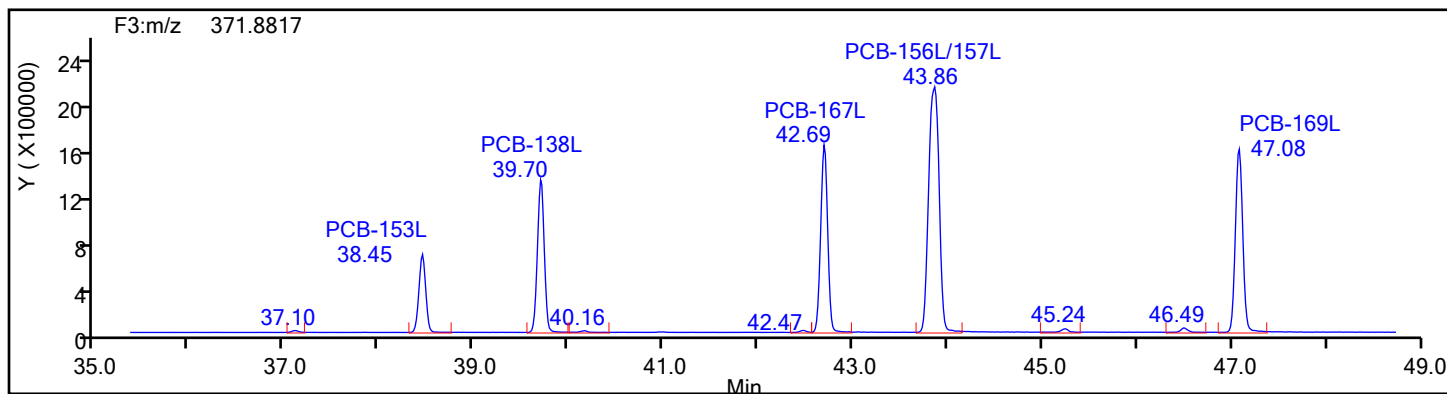
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 µl

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

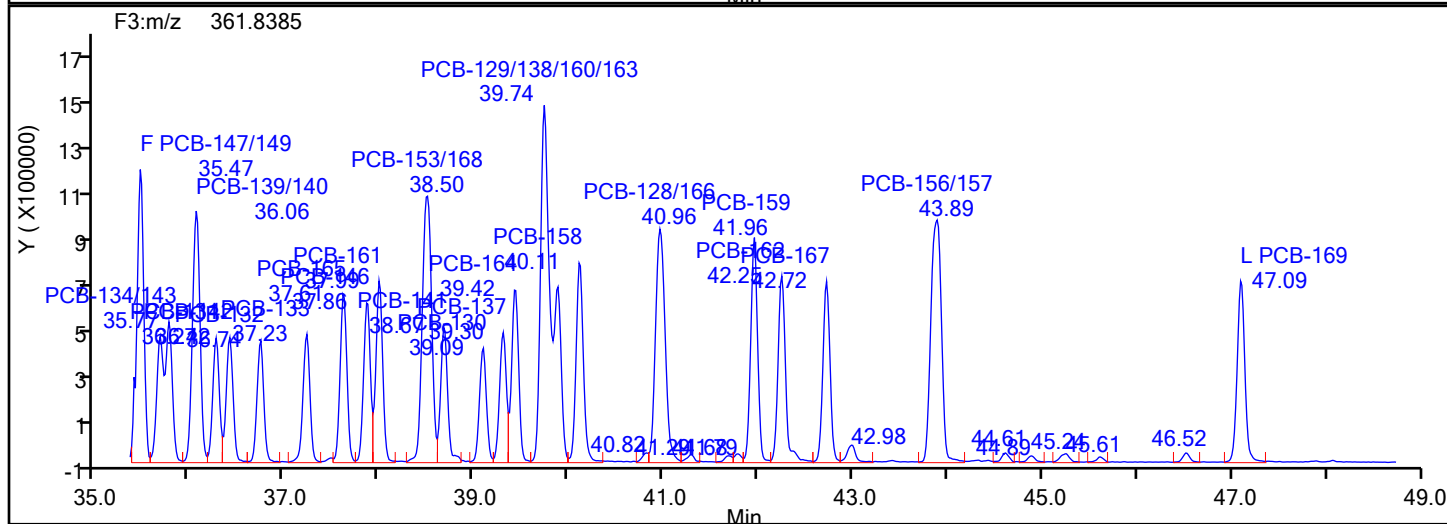
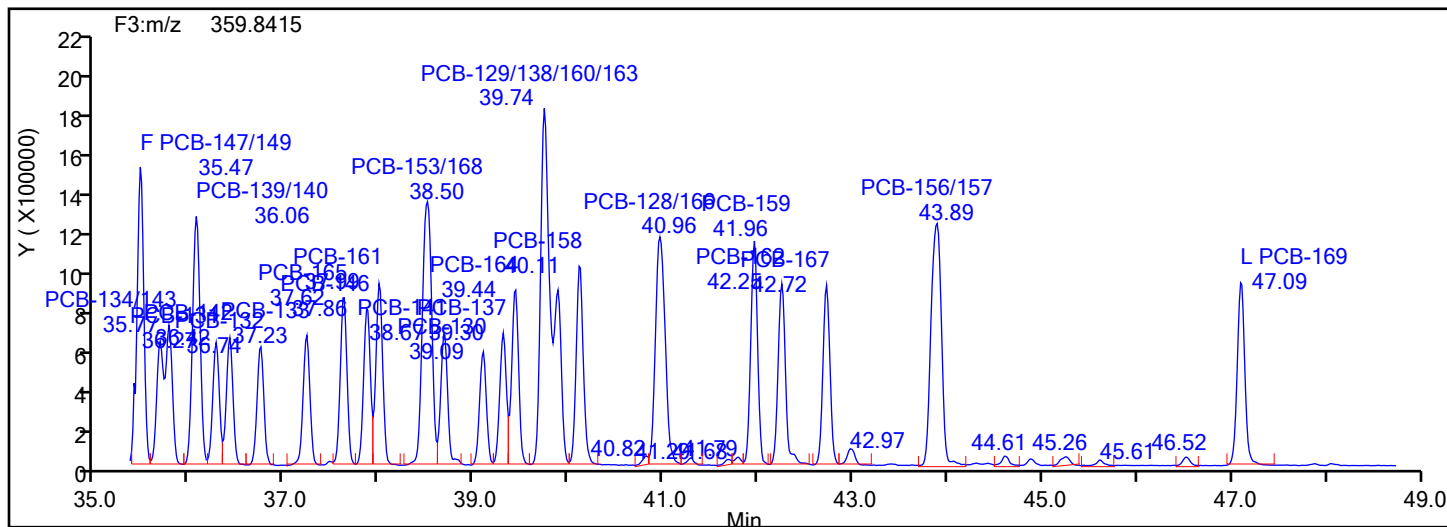
Worklist#: 88205

Sample Line#: 1

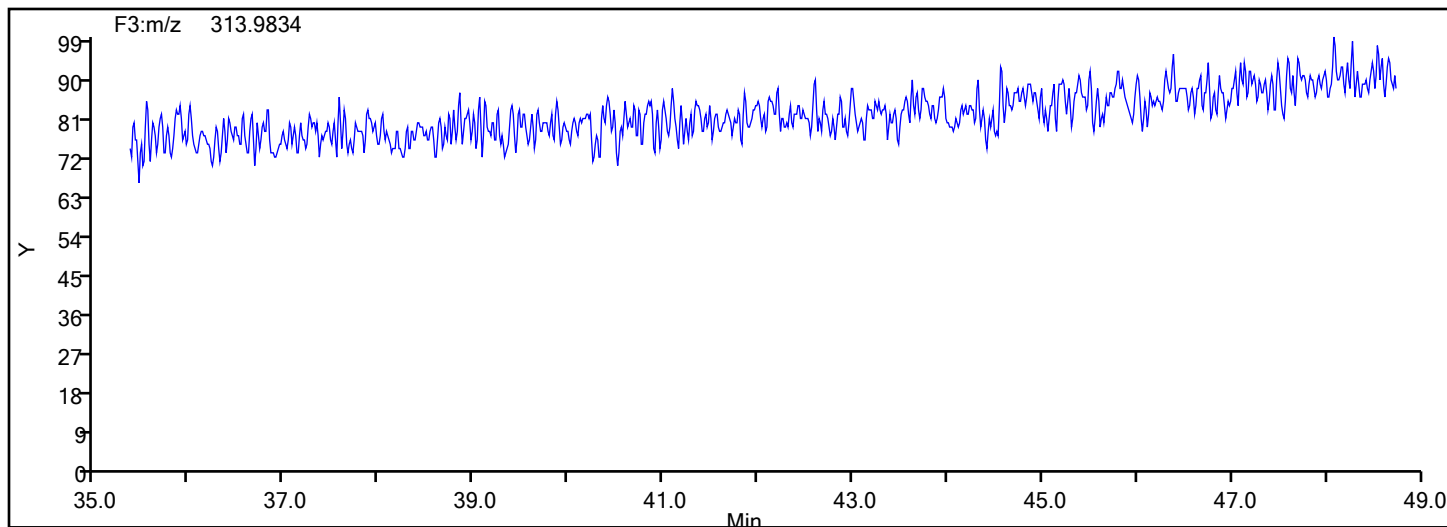
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

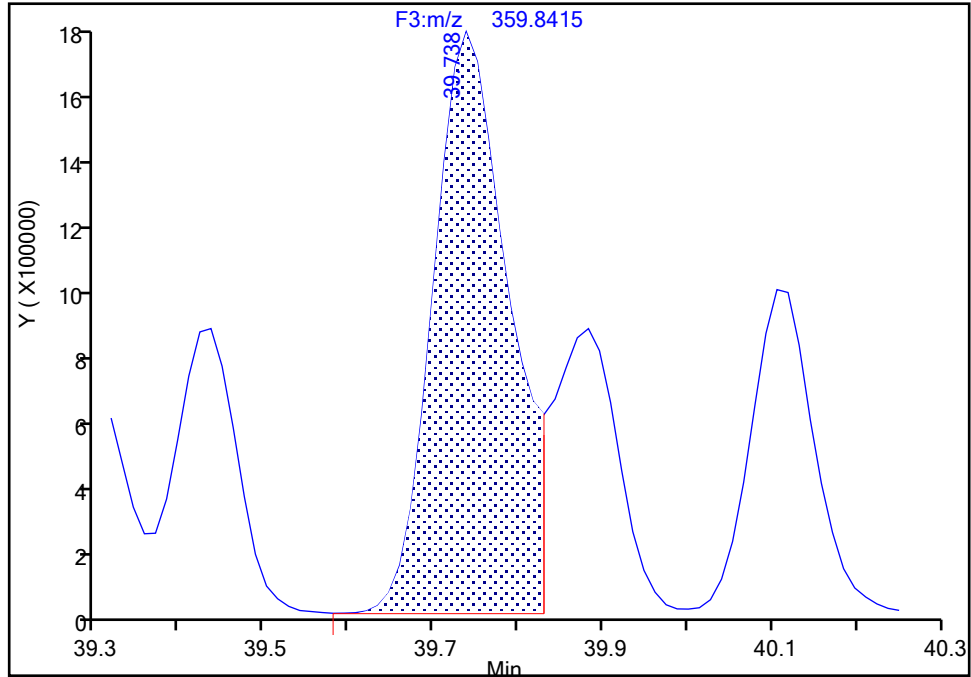
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-129/138/160/163, CAS: STL02296**

Signal: 1

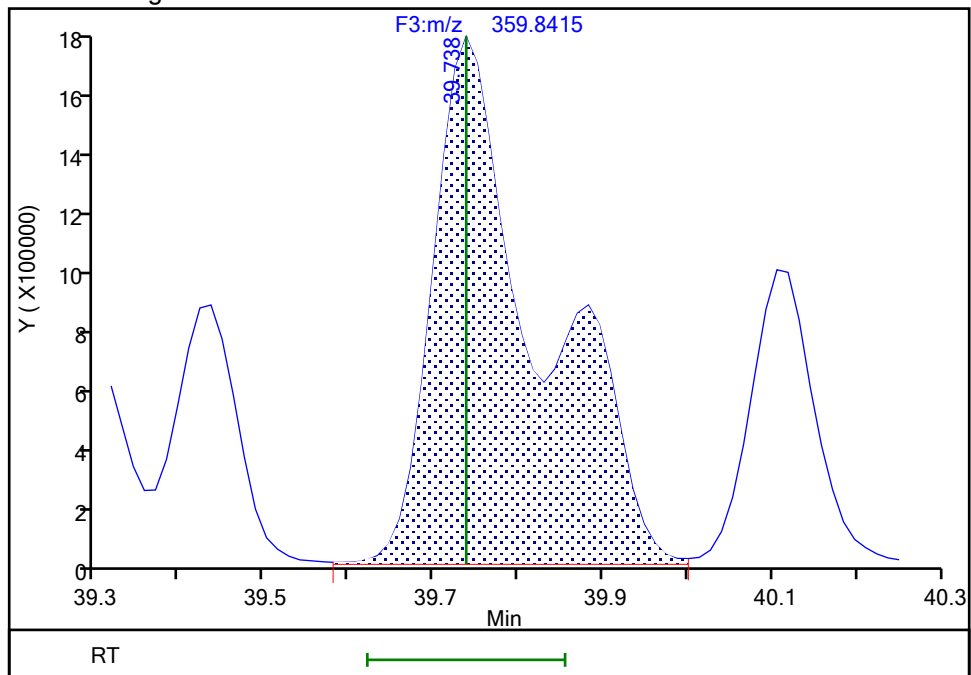
RT: 39.74  
Area: 11075612  
Amount: 139.2116  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.74  
Area: 15680207  
Amount: 197.4315  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:18:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

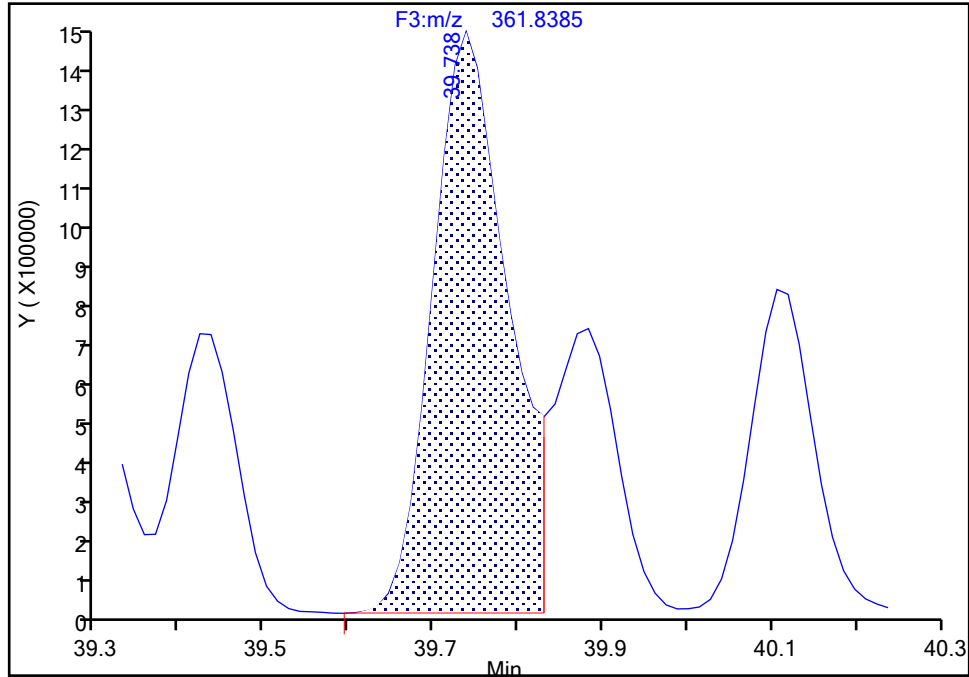
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

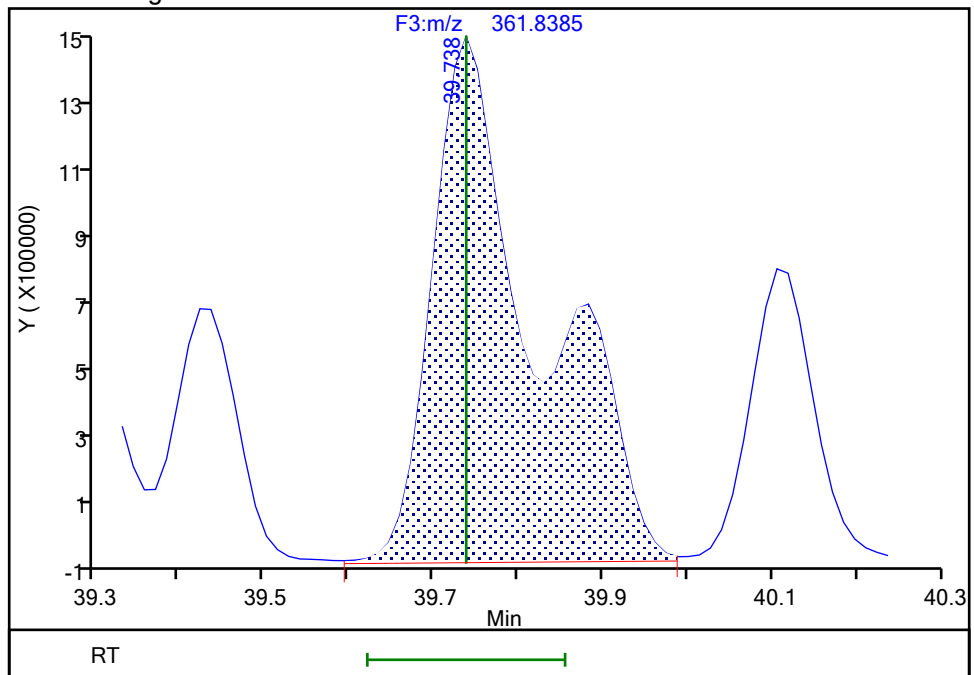
RT: 39.74  
Area: 8703858  
Amount: 139.2116  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.74  
Area: 12371266  
Amount: 197.4315  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:18:20 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04917  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

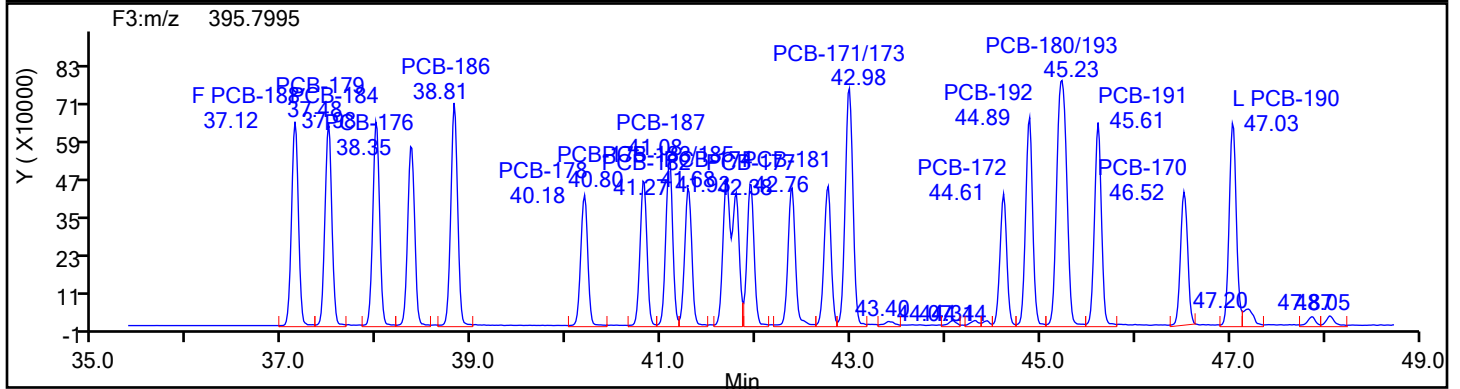
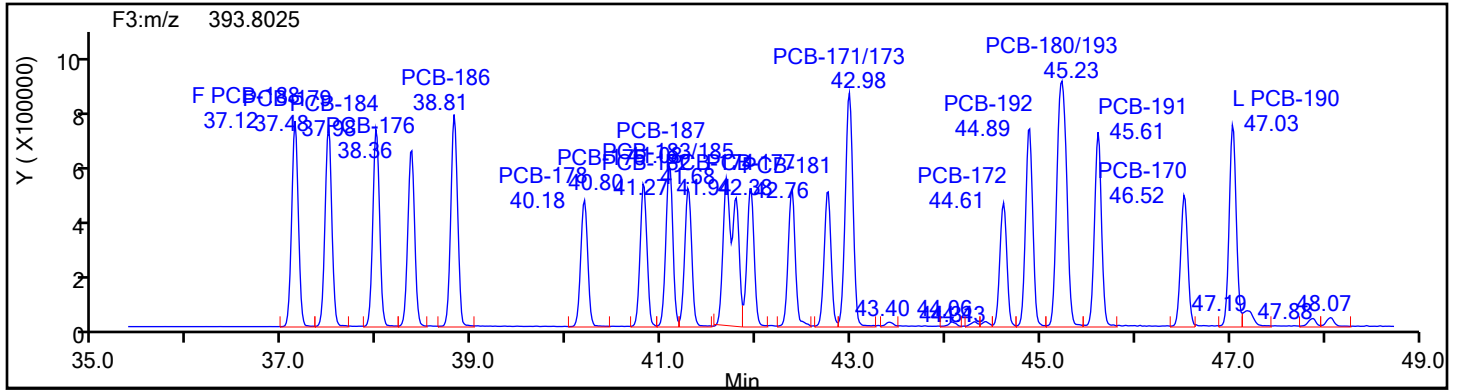
Worklist#: 88205

Sample Line#: 1

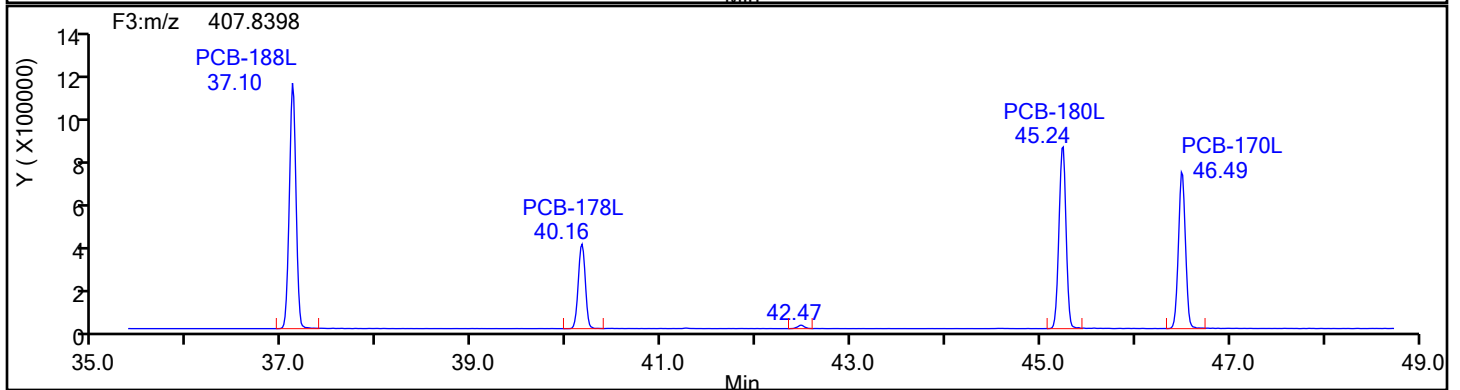
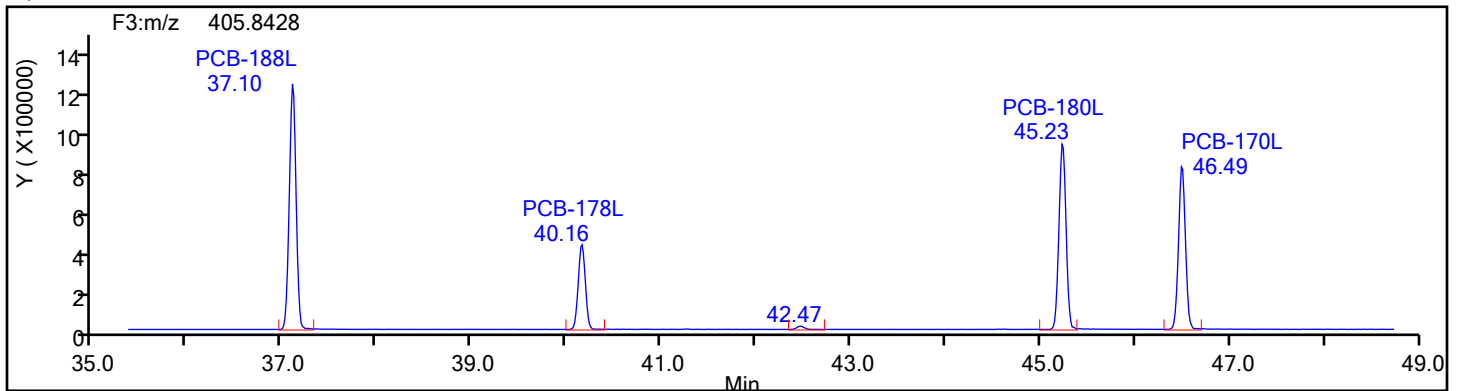
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

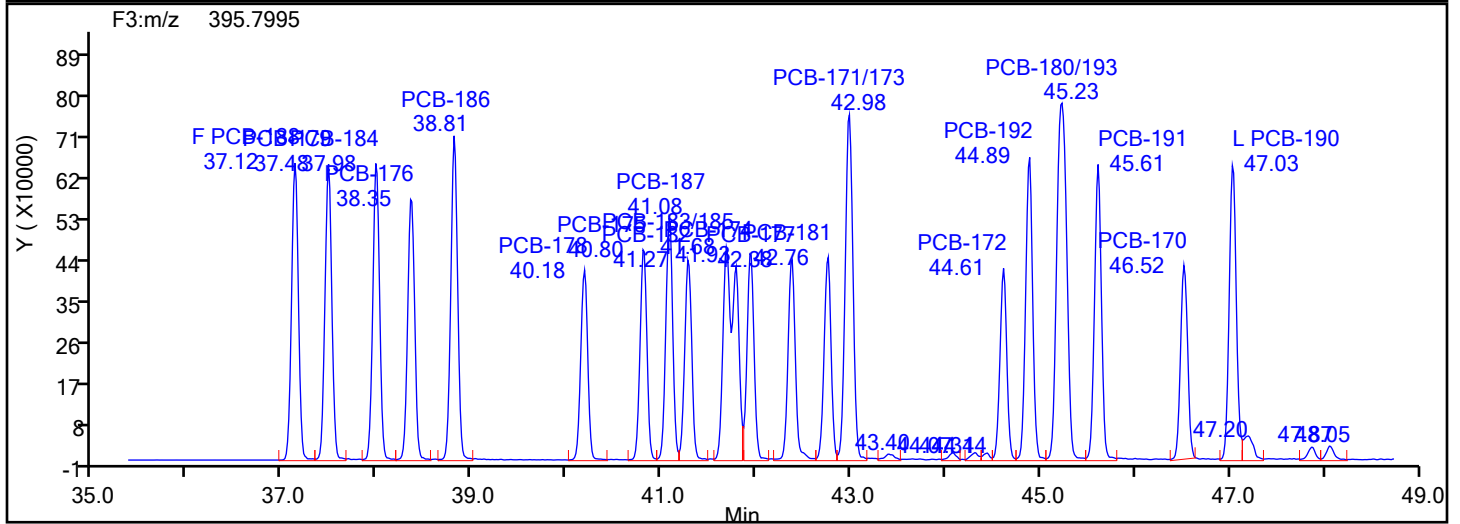
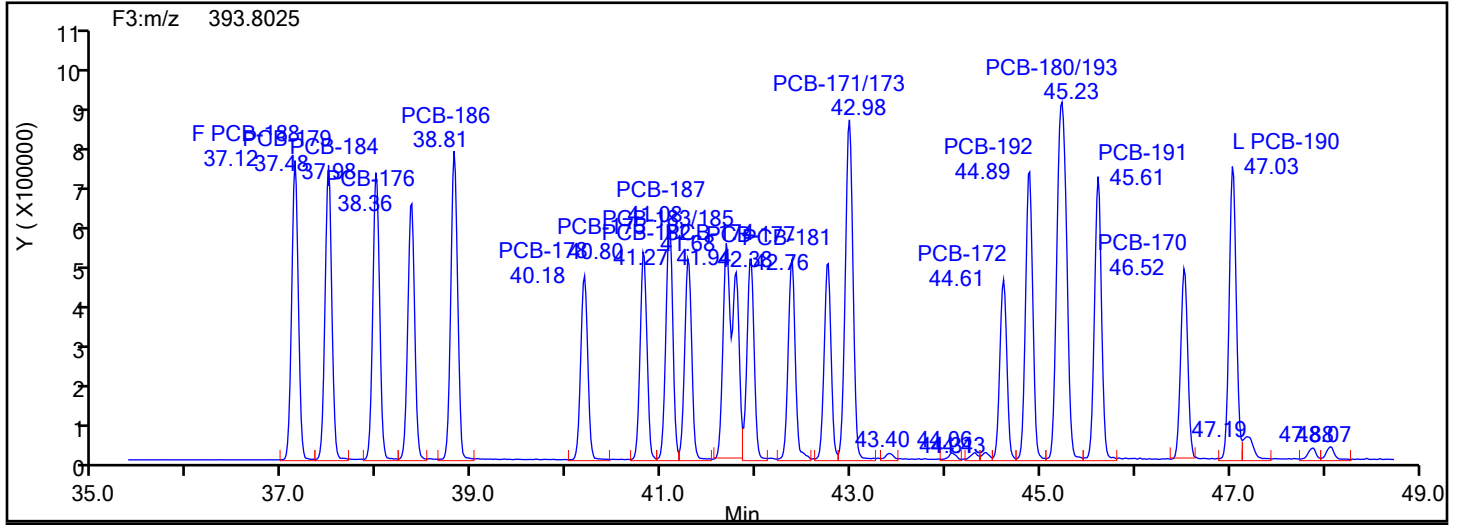
Worklist#: 88205

Sample Line#: 1

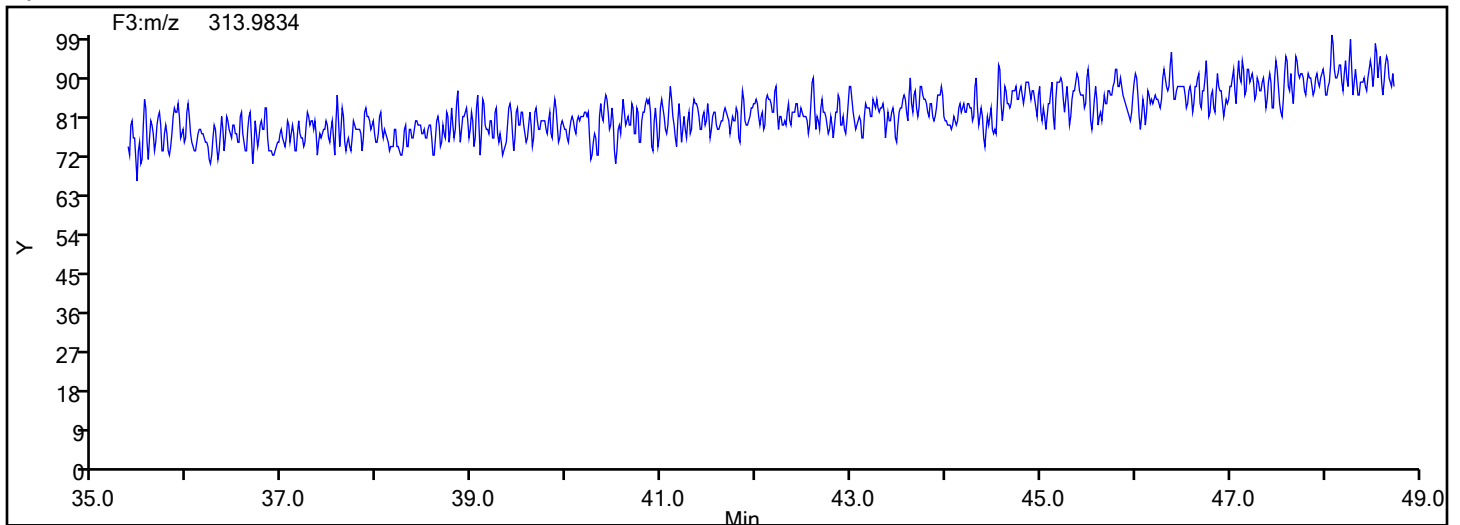
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

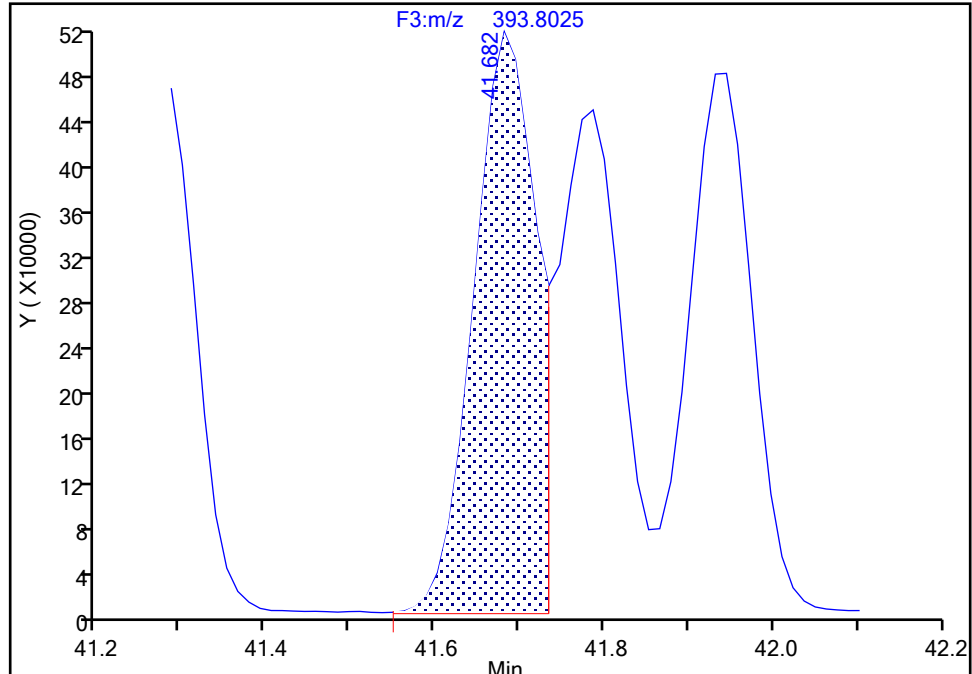
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 1

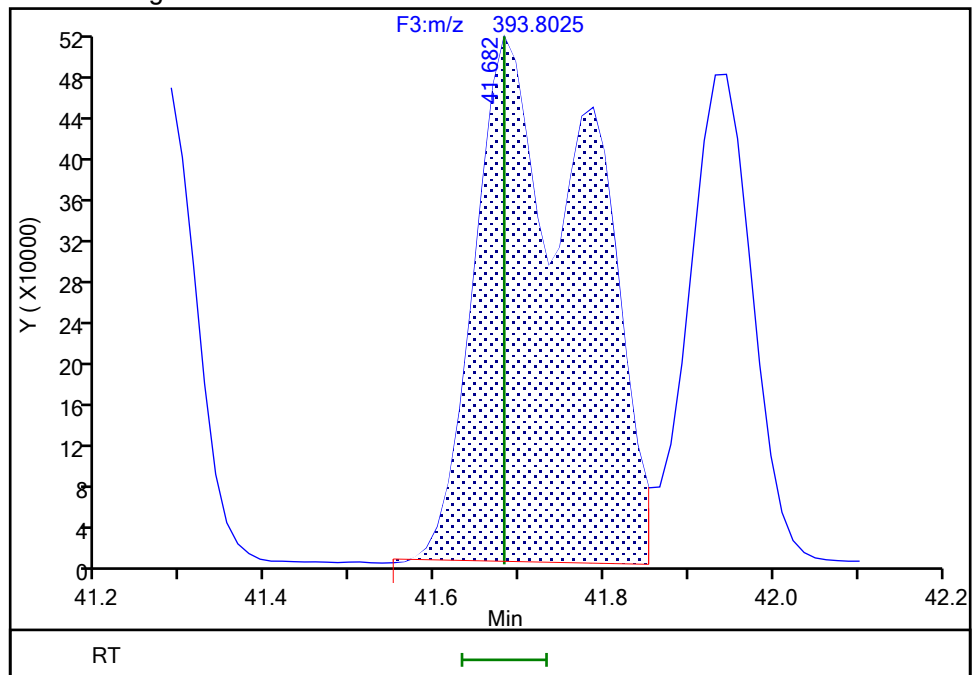
RT: 41.68  
Area: 2570573  
Amount: 52.496792  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.68  
Area: 4686828  
Amount: 97.182992  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:18:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

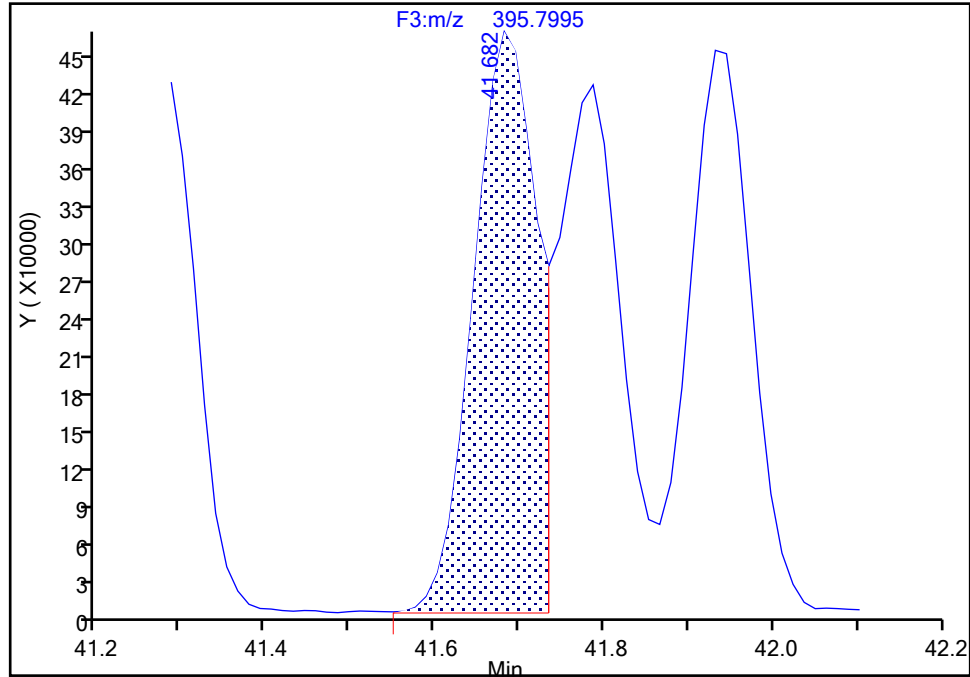
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 2

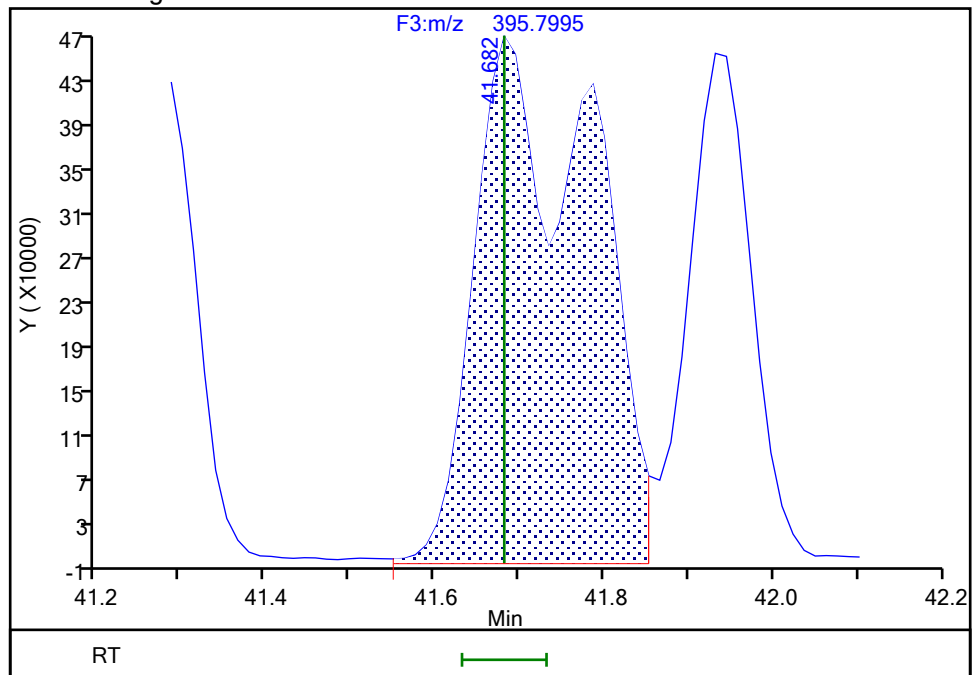
RT: 41.68  
Area: 2376306  
Amount: 52.496792  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.68  
Area: 4470922  
Amount: 97.182992  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:18:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04921  
9/6/2024  
3:53:39 PM

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d		
Injection Date:	27-Jun-2024 22:00:00	Instrument ID:	D2D
Lims ID:	WDMCCV		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

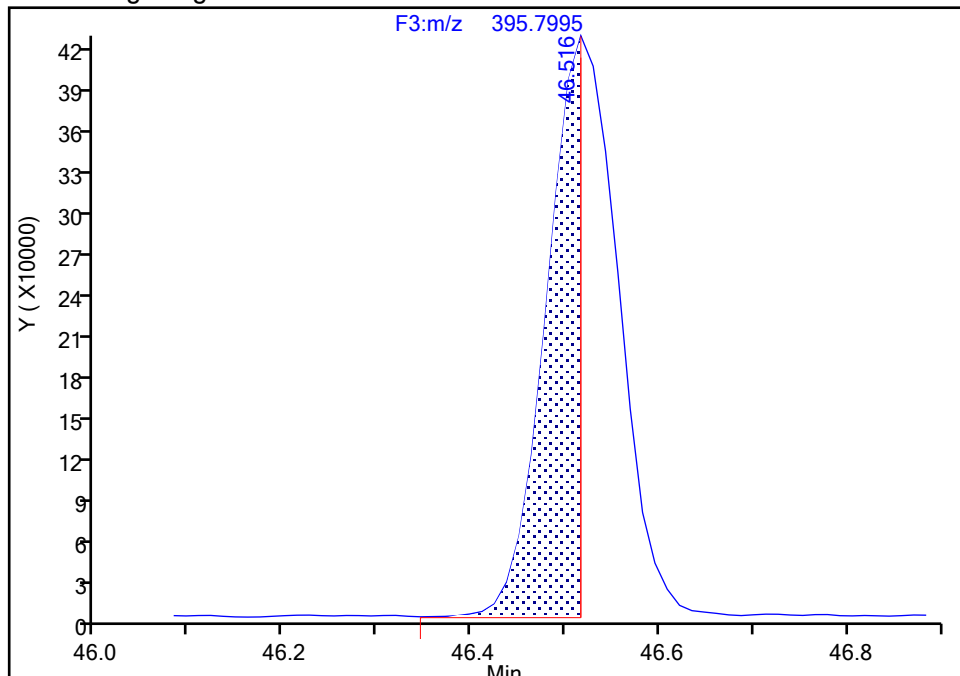
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ALS Bottle#:      0          Worklist Smp#:      1
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F3(35.64 :49.10 )

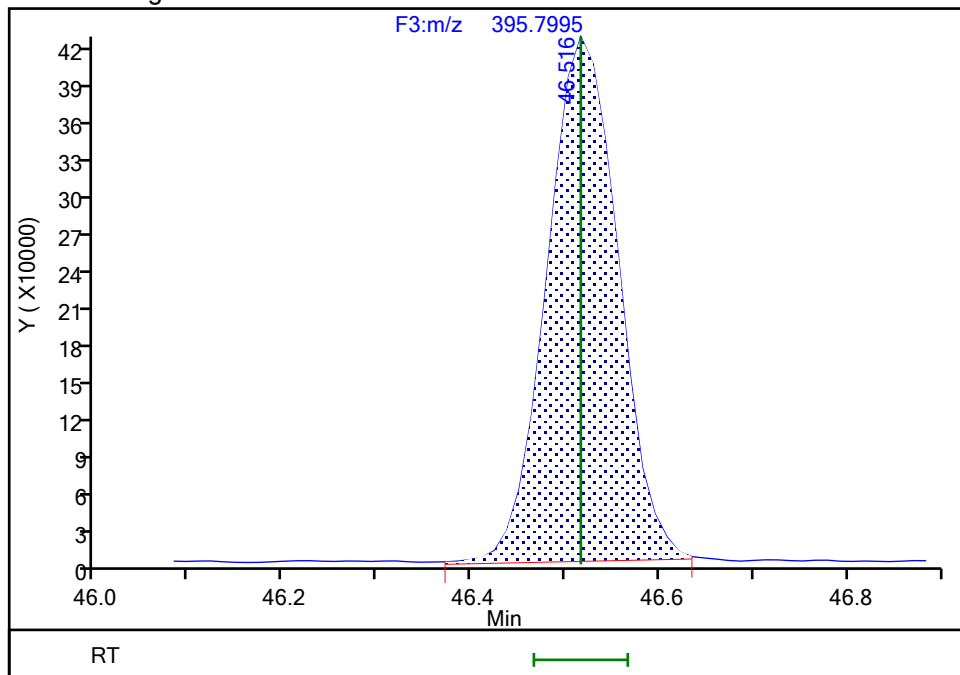
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Signal: 2

RT: 46.52  
Area: 1058266  
Amount: 37.426328  
Amount Units: pg/ul



RT: 46.52  
Area: 2216956  
Amount: 49.625612  
Amount Units: pg/ul



Audit Reason: Baseline

## Eurofins Knoxville

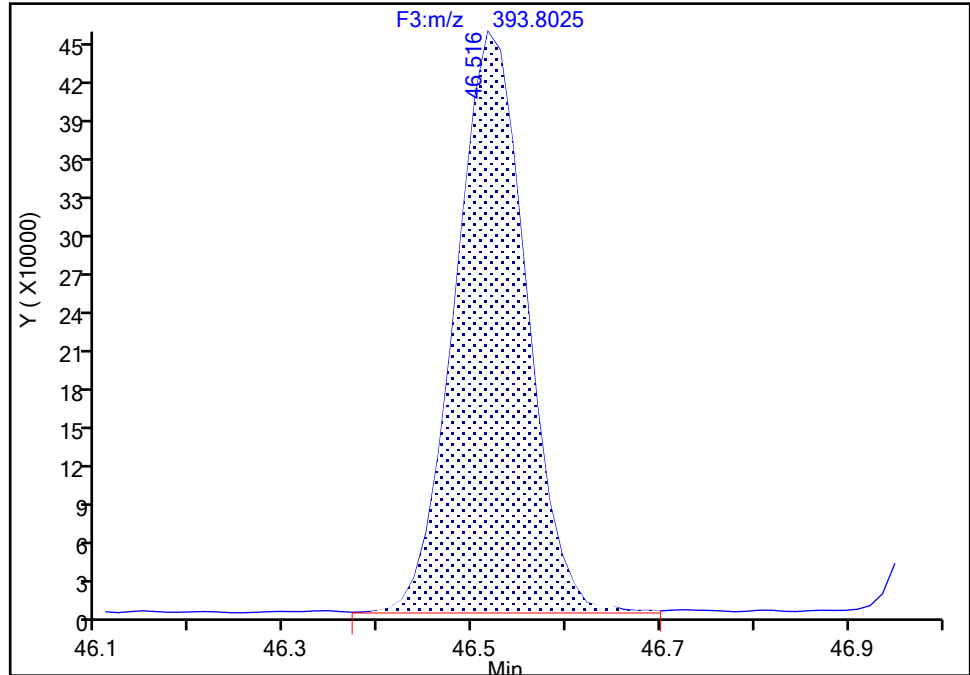
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-170, CAS: 35065-30-6**

Signal: 1

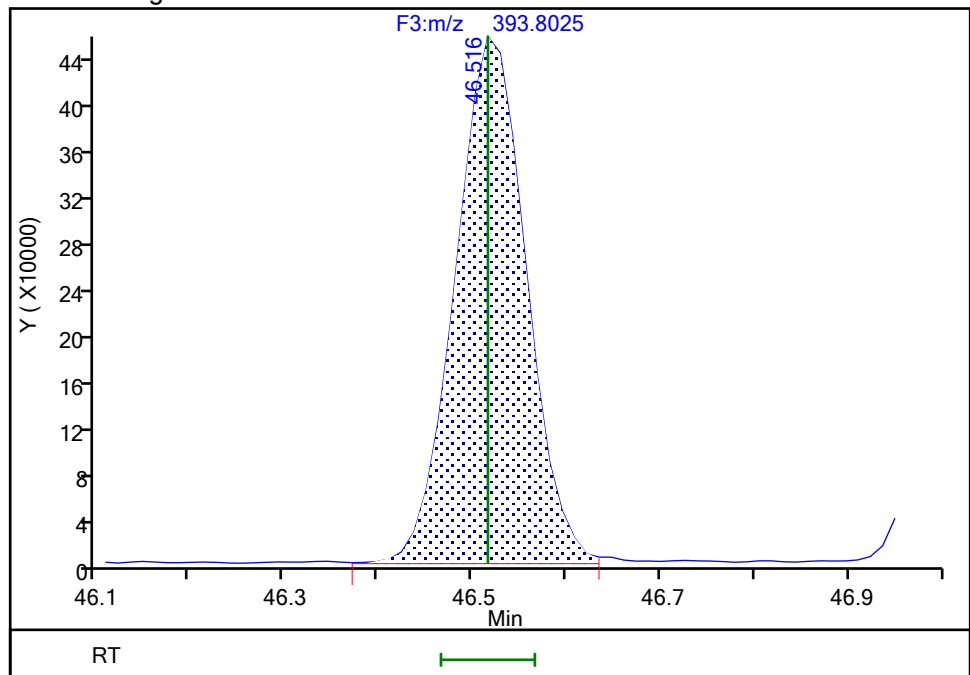
RT: 46.52  
Area: 2388401  
Amount: 37.426328  
Amount Units: pg/ul

## Processing Integration Results



RT: 46.52  
Area: 2353168  
Amount: 49.625612  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 27-Jun-2024 23:20:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-04923  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

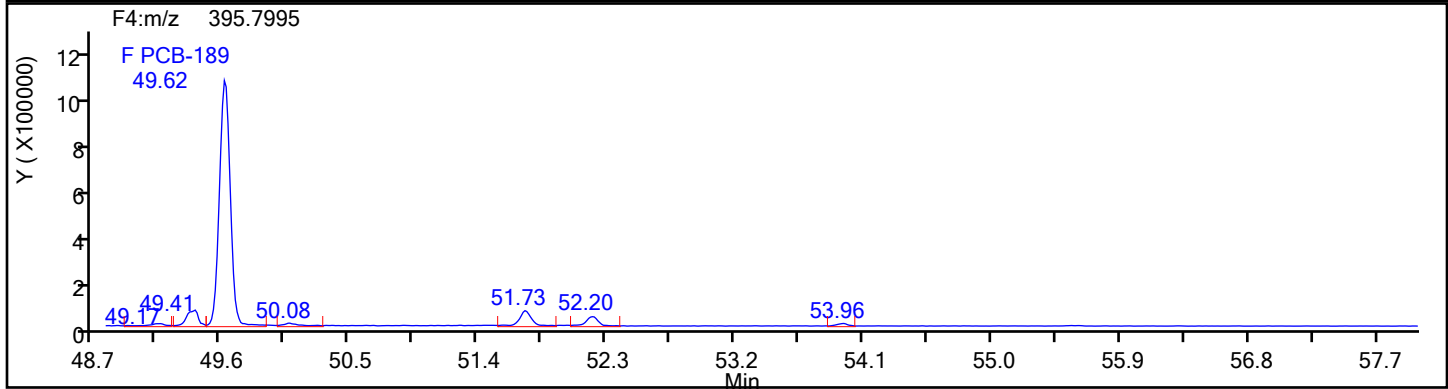
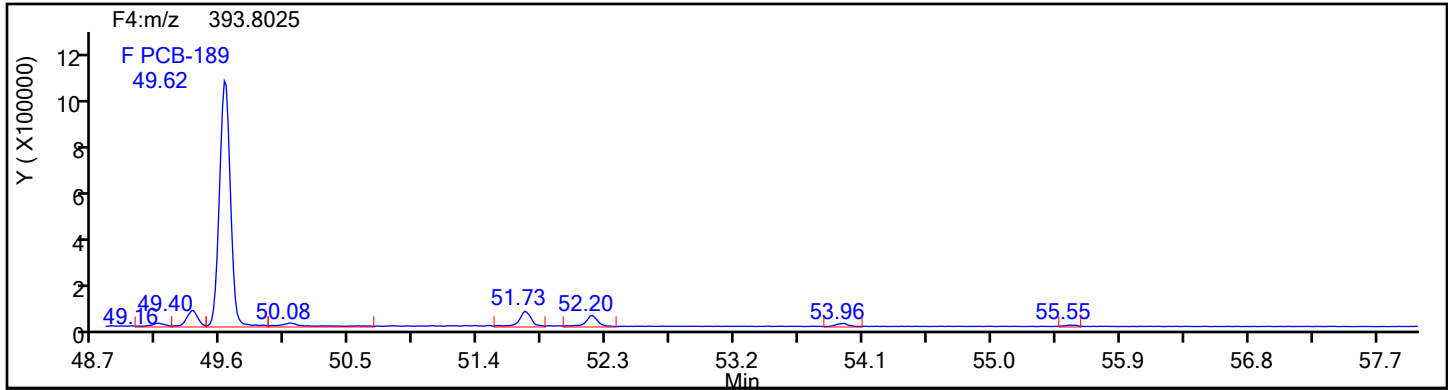
Worklist#: 88205

Sample Line#: 1

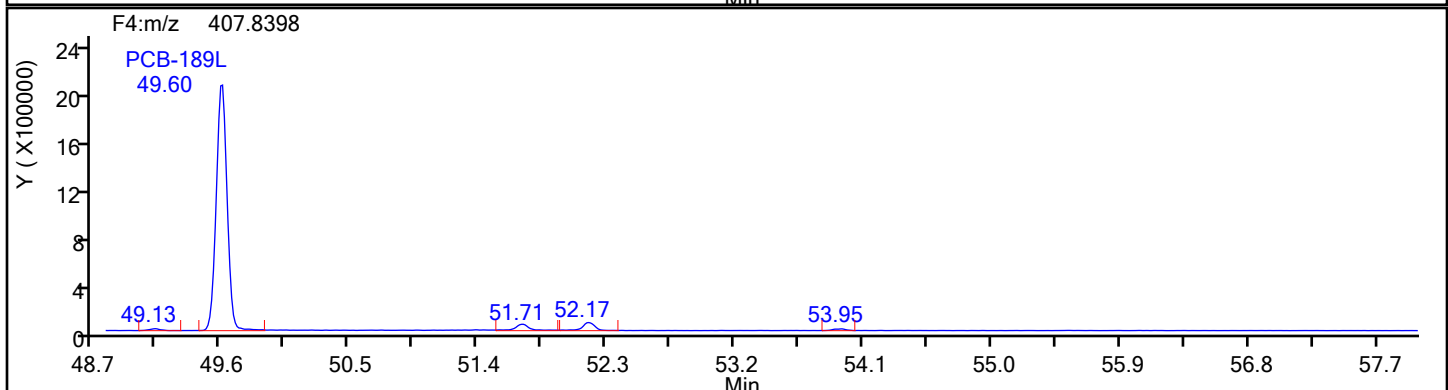
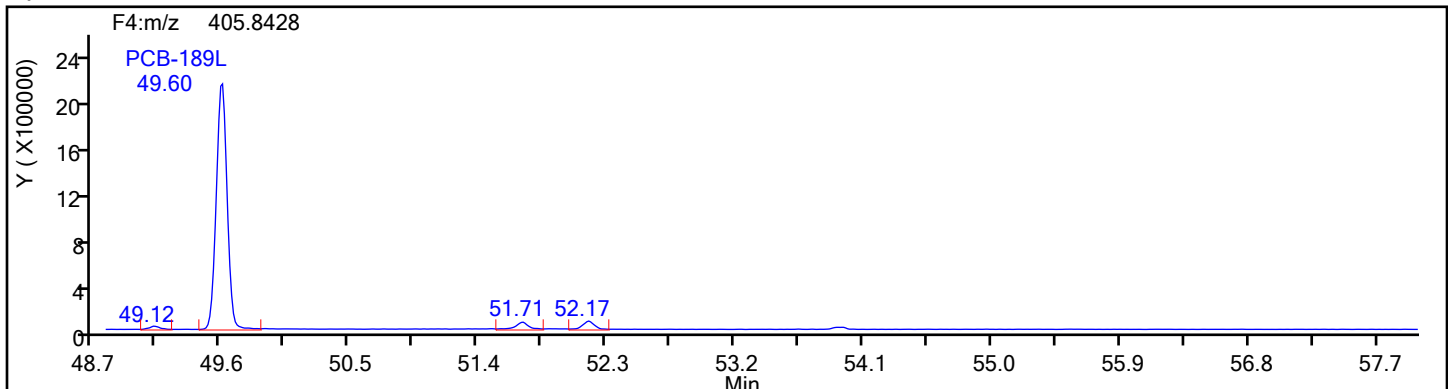
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

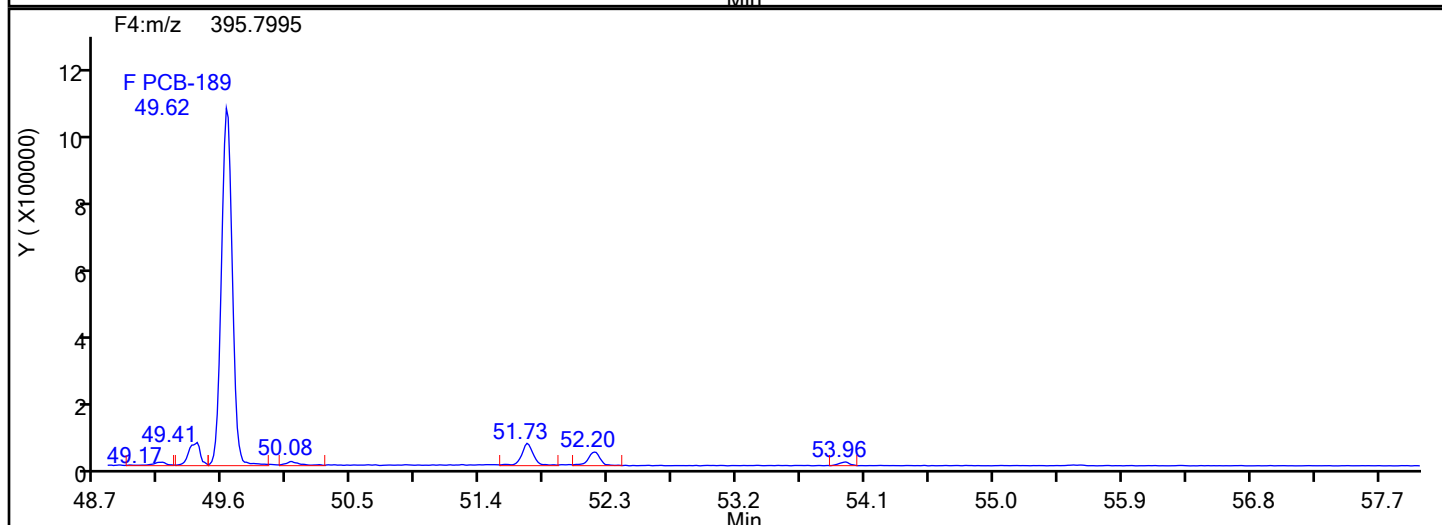
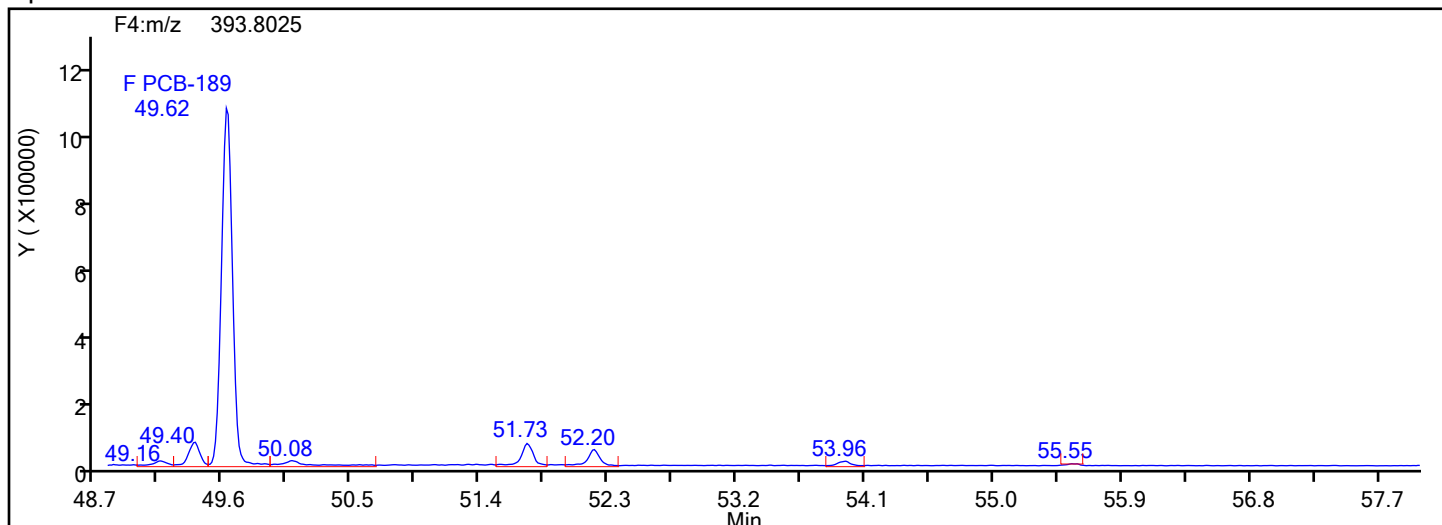
Worklist#: 88205

Sample Line#: 1

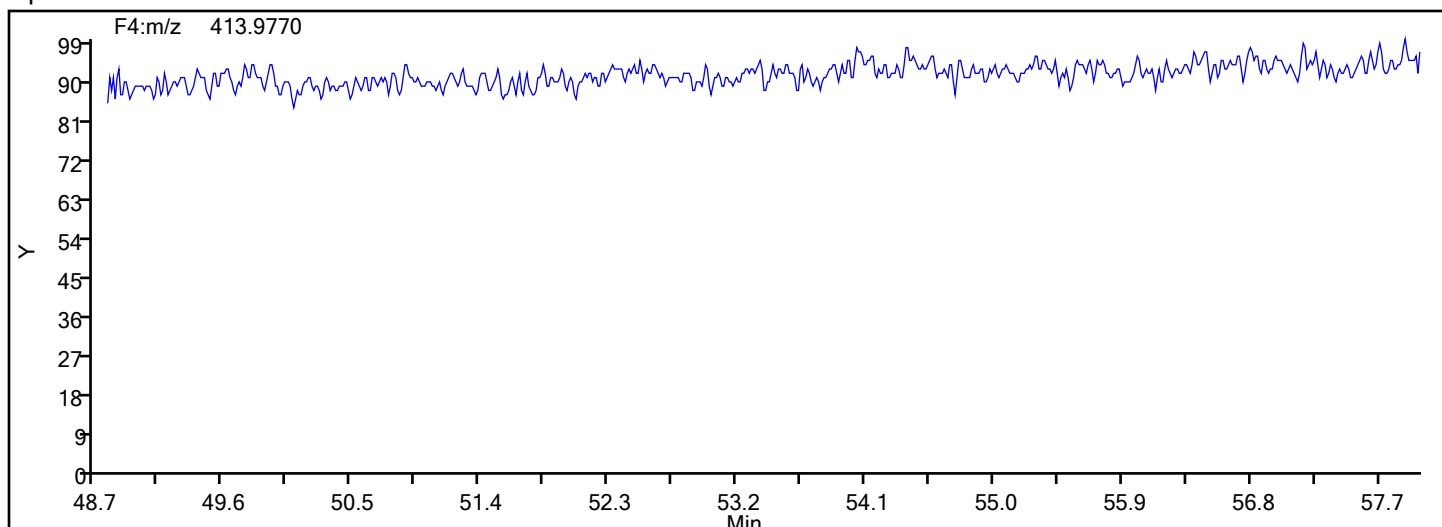
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



## HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

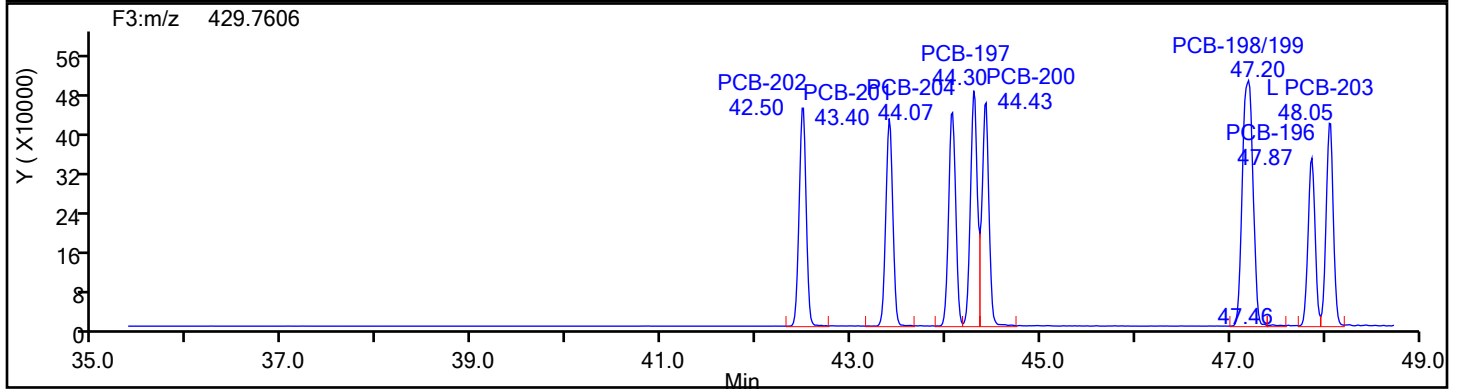
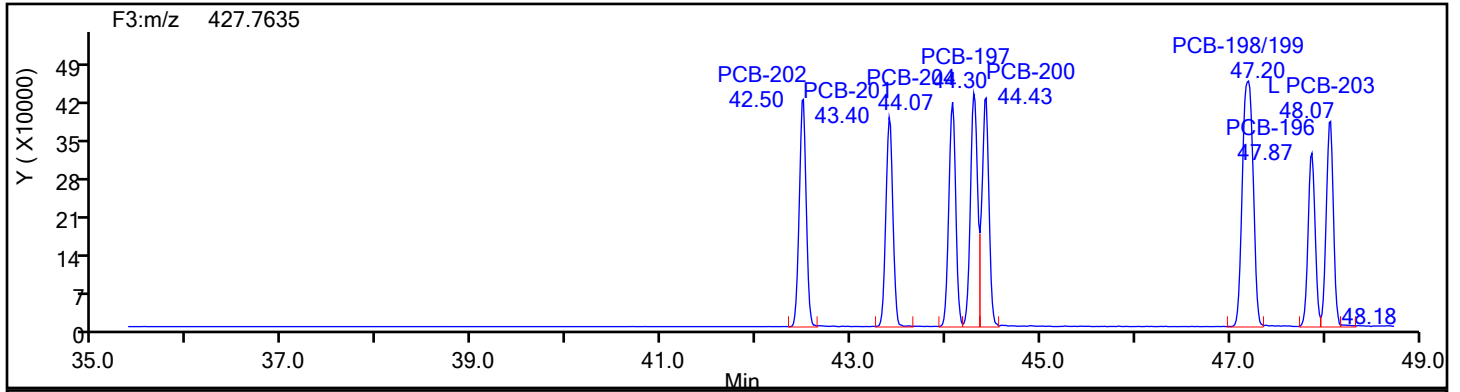
Worklist#: 88205

Sample Line#: 1

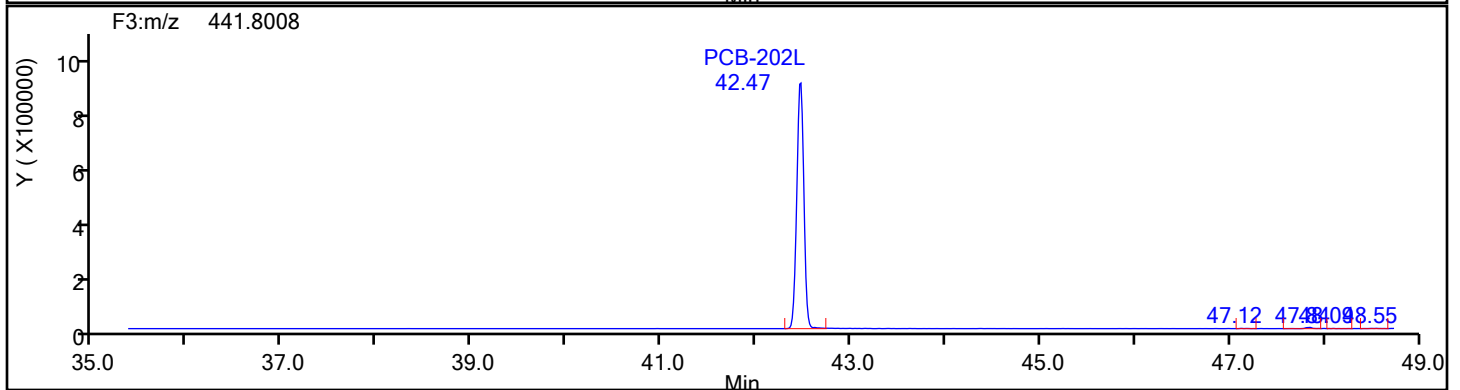
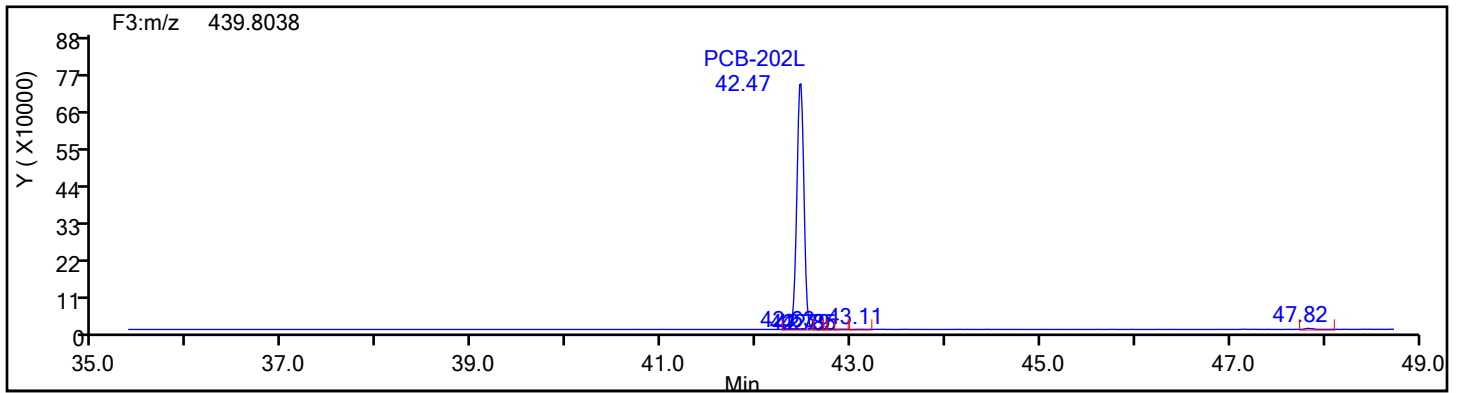
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

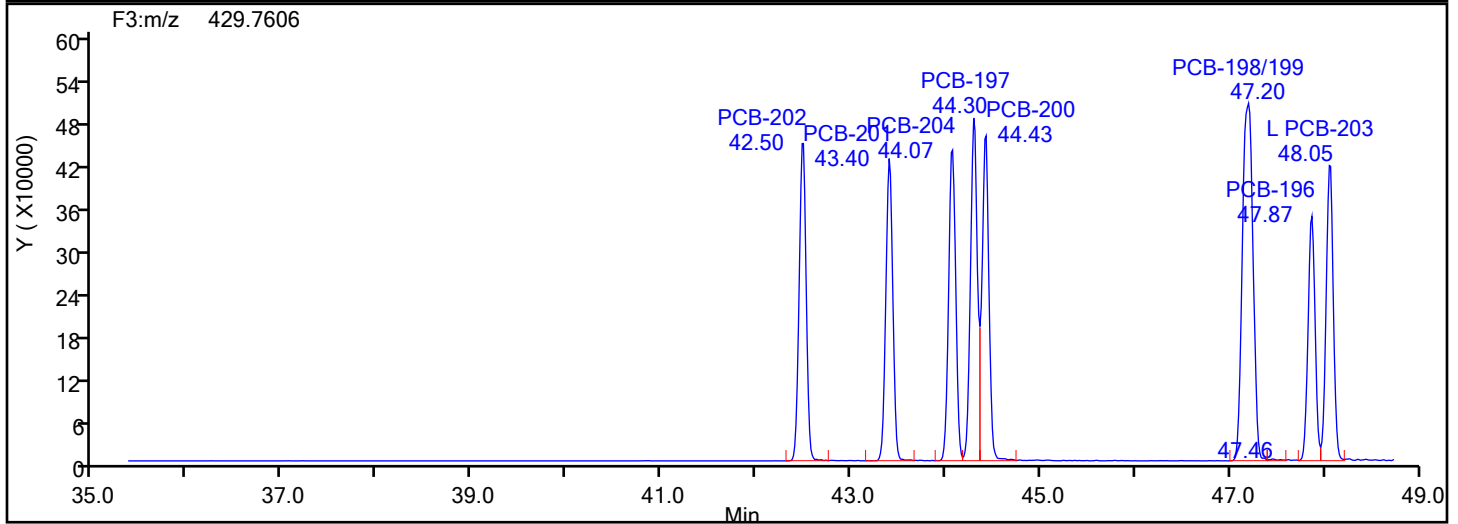
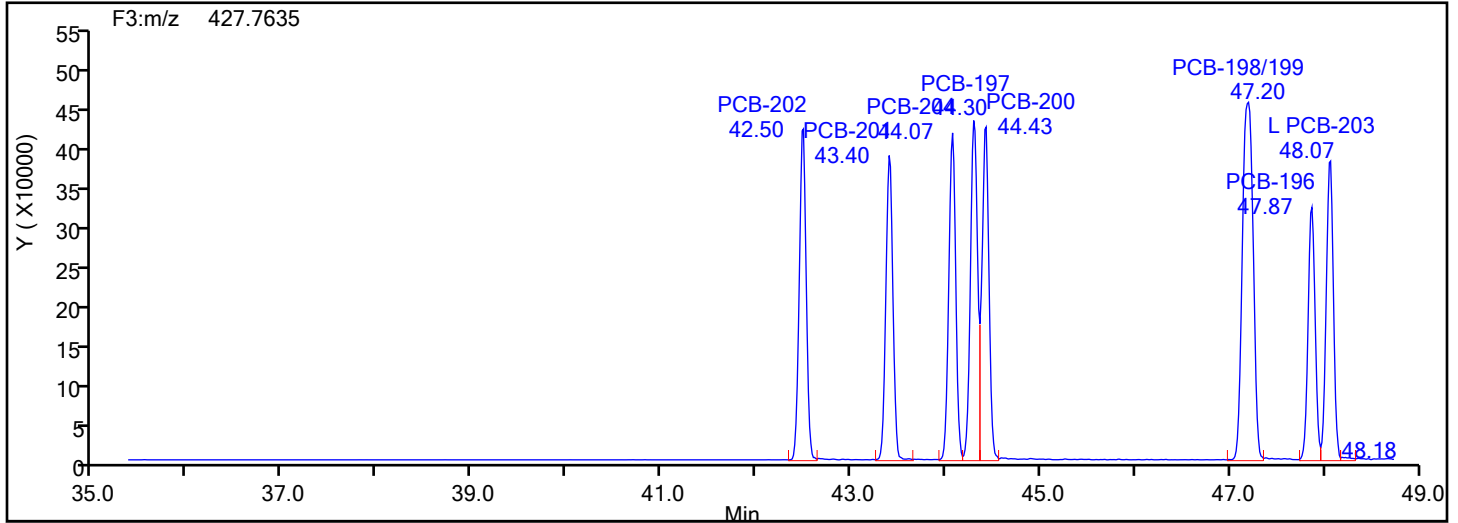
Worklist#: 88205

Sample Line#: 1

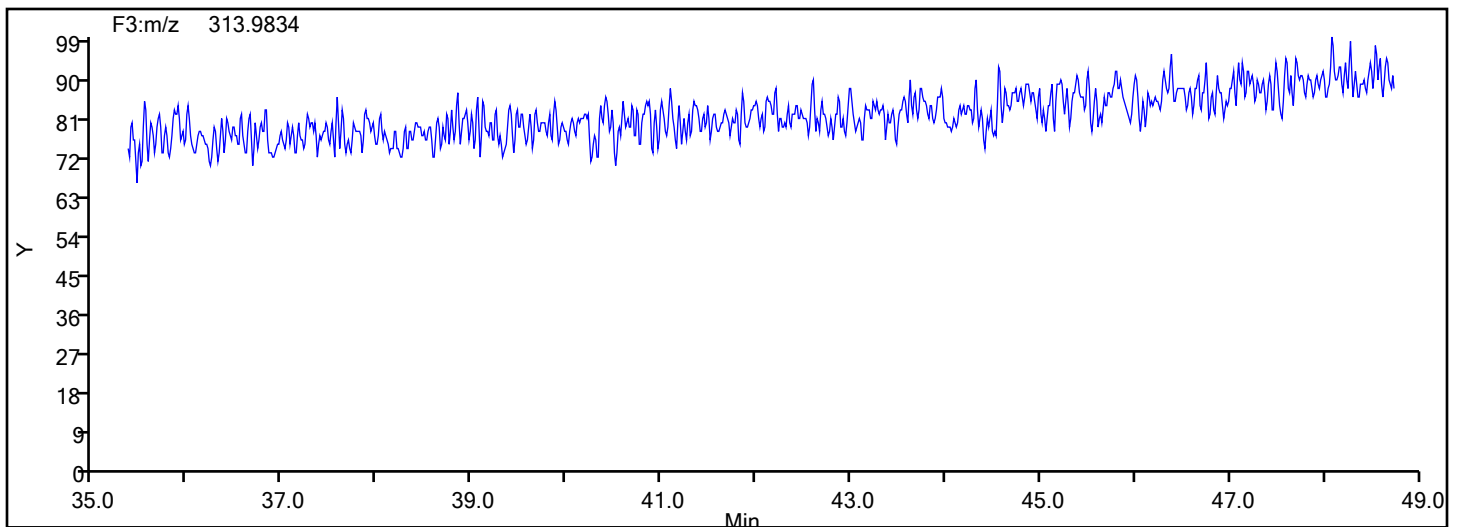
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



## OcPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

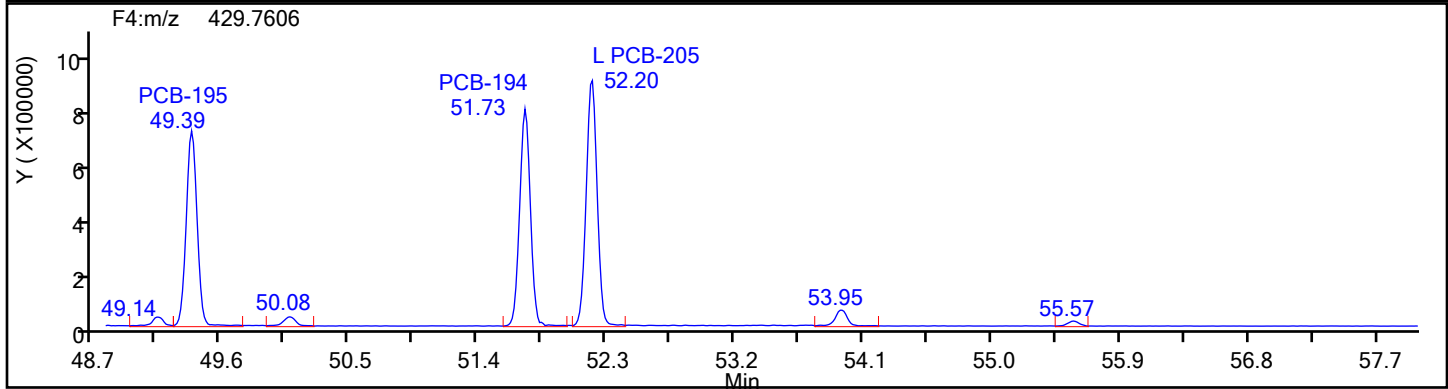
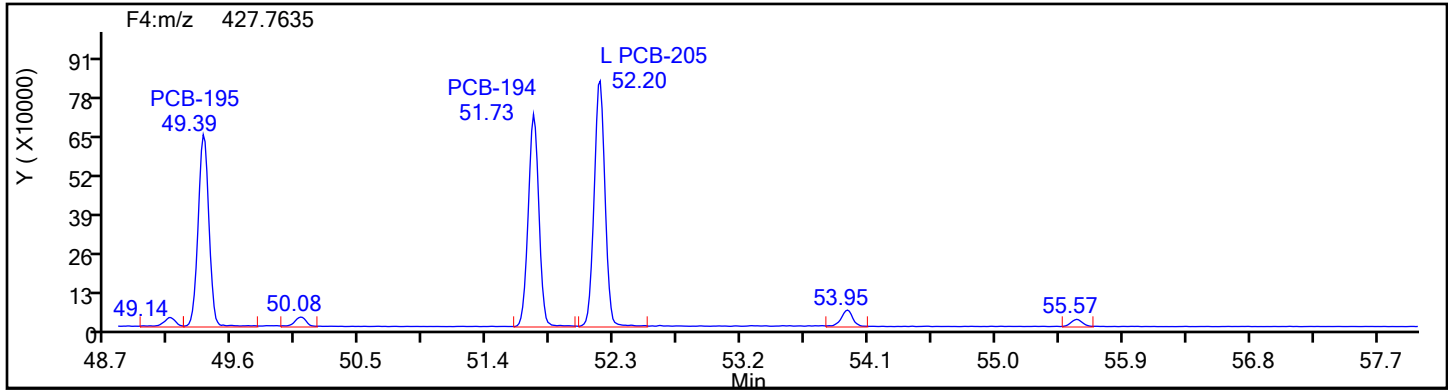
Worklist#: 88205

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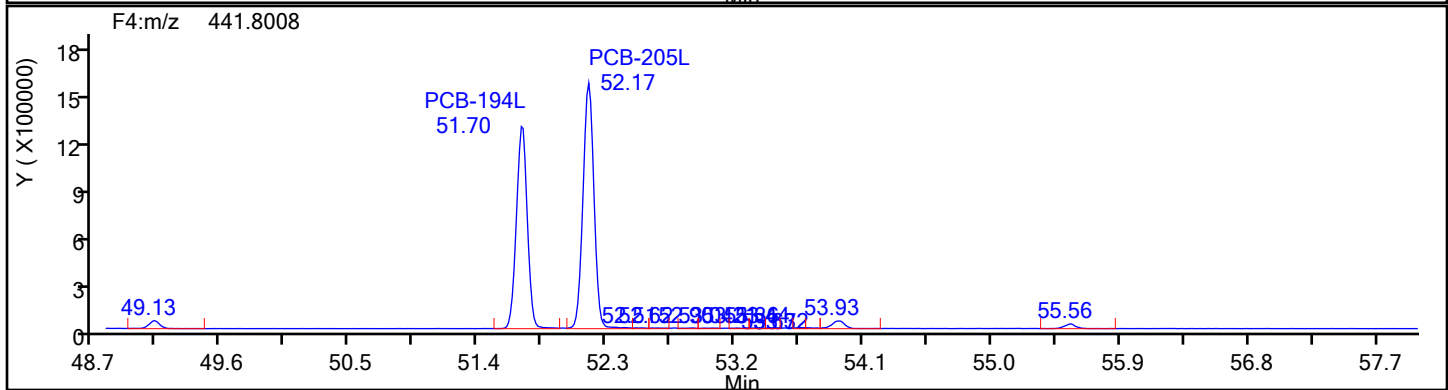
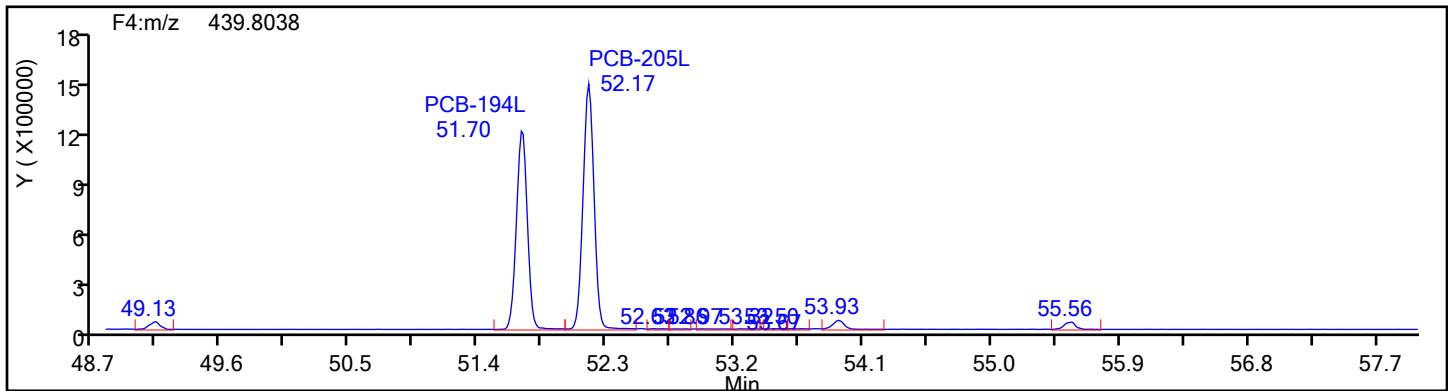
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

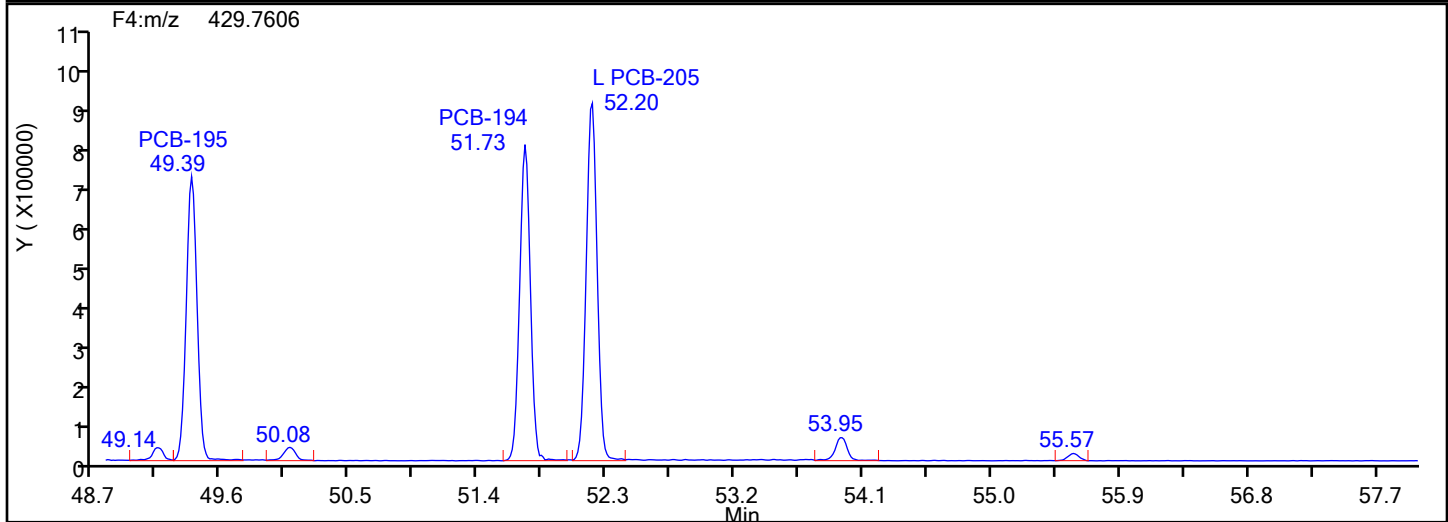
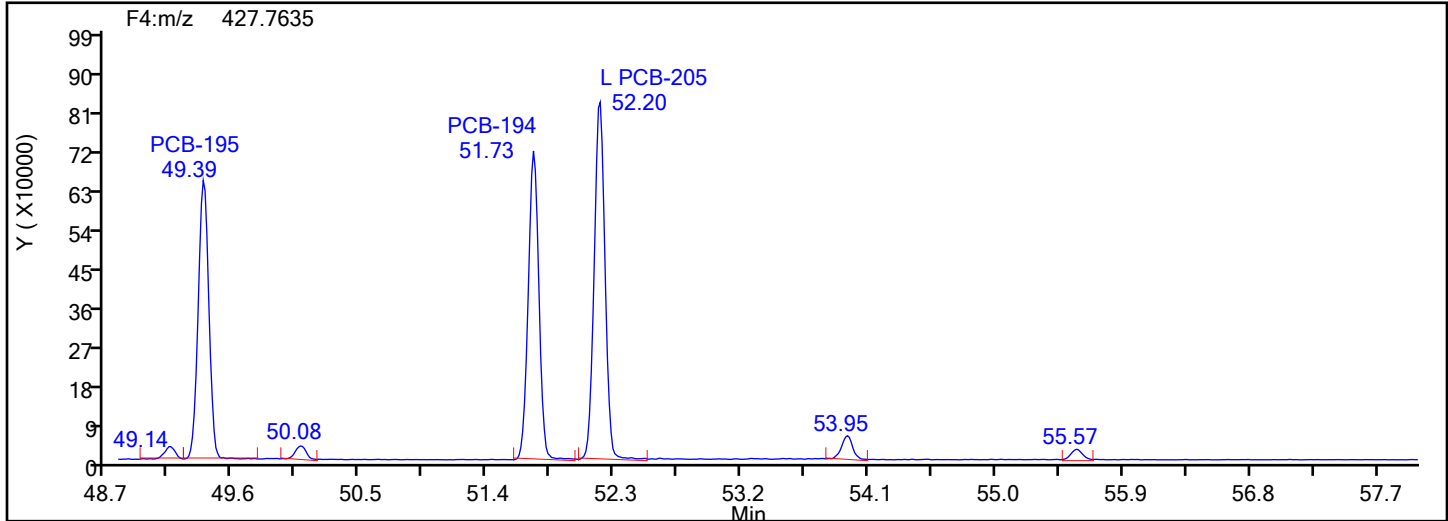
Worklist#: 88205

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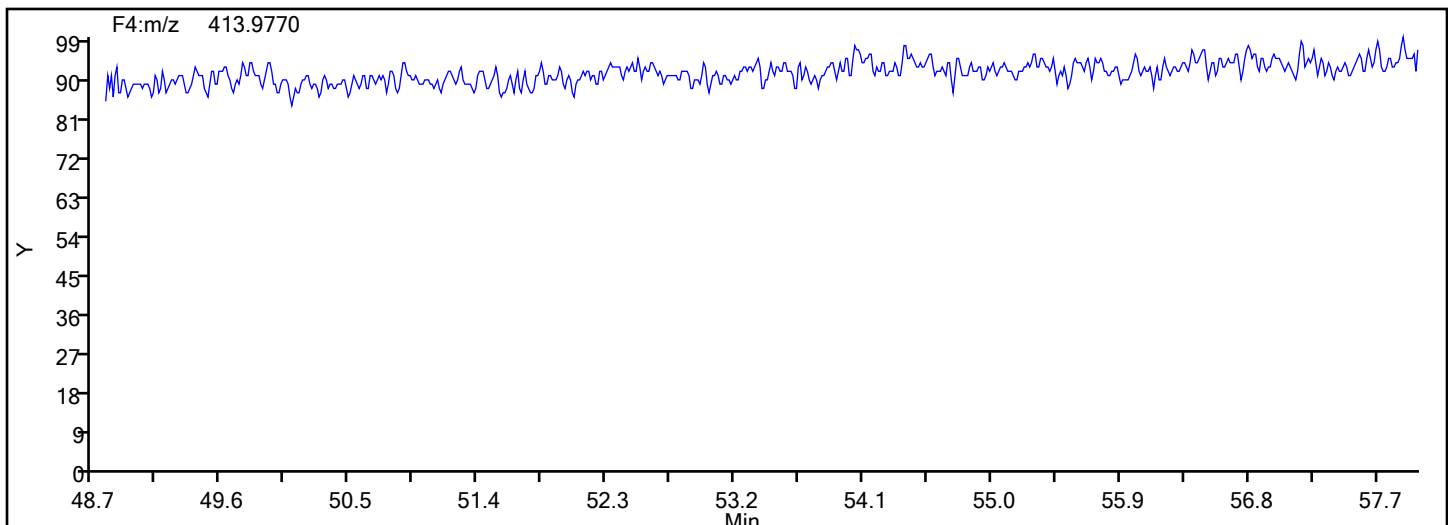
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

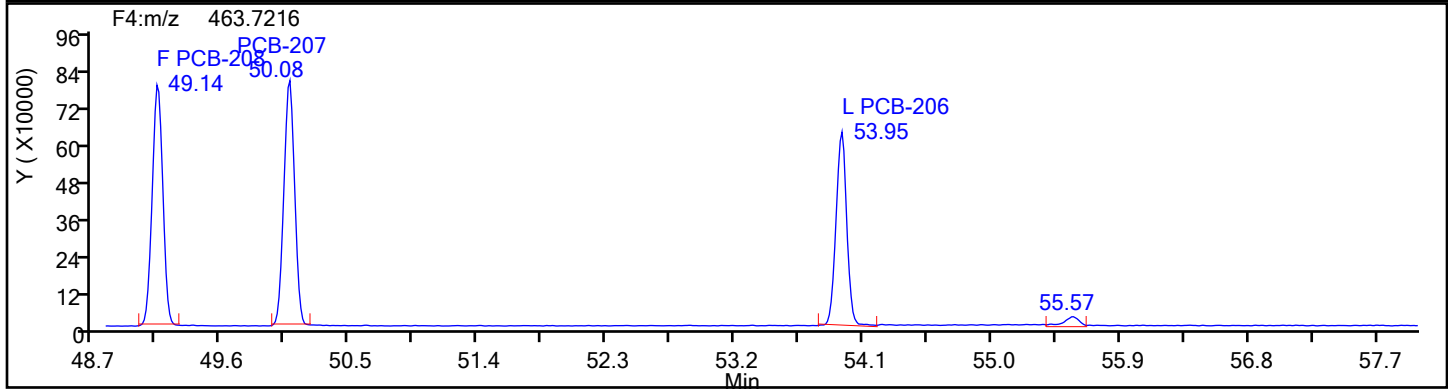
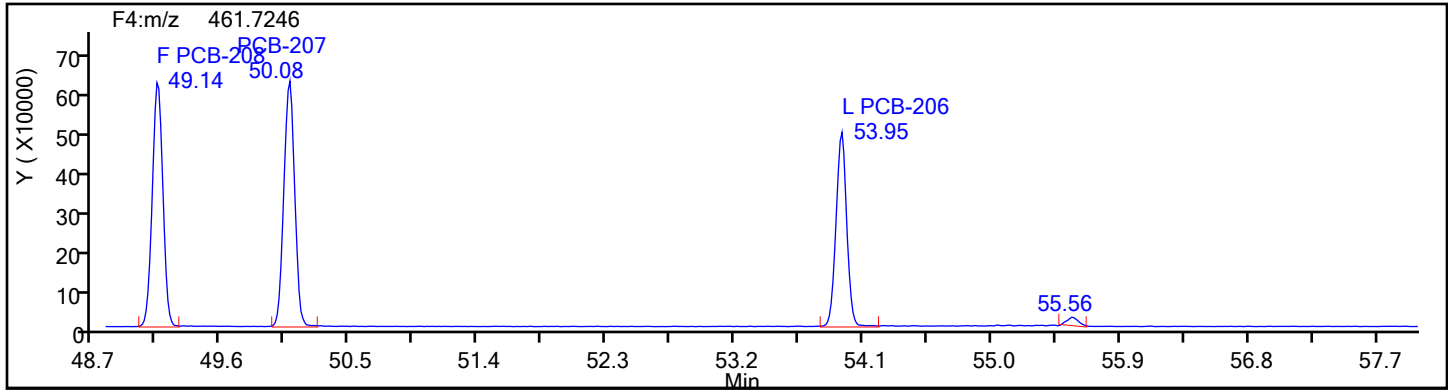


## OcPCB F4 Lock Mass

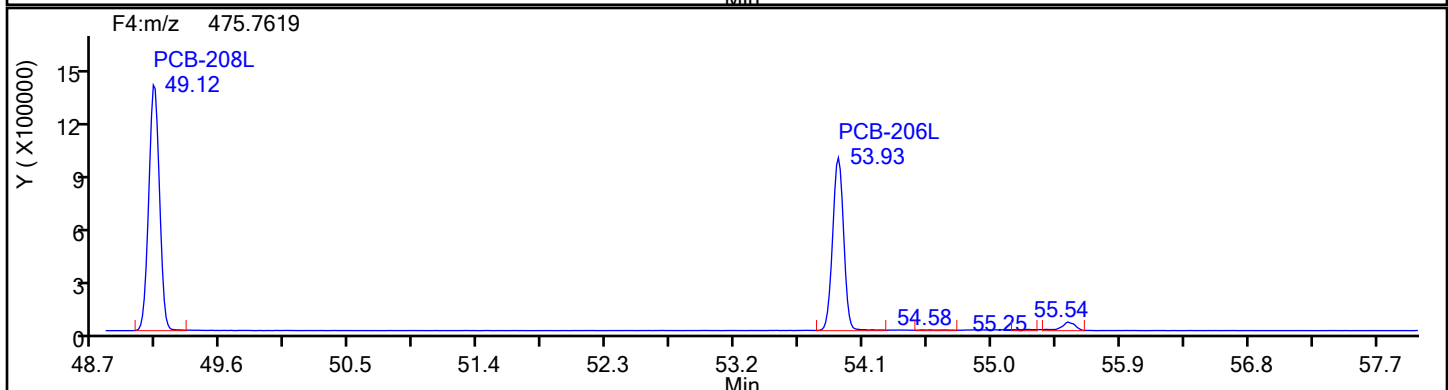
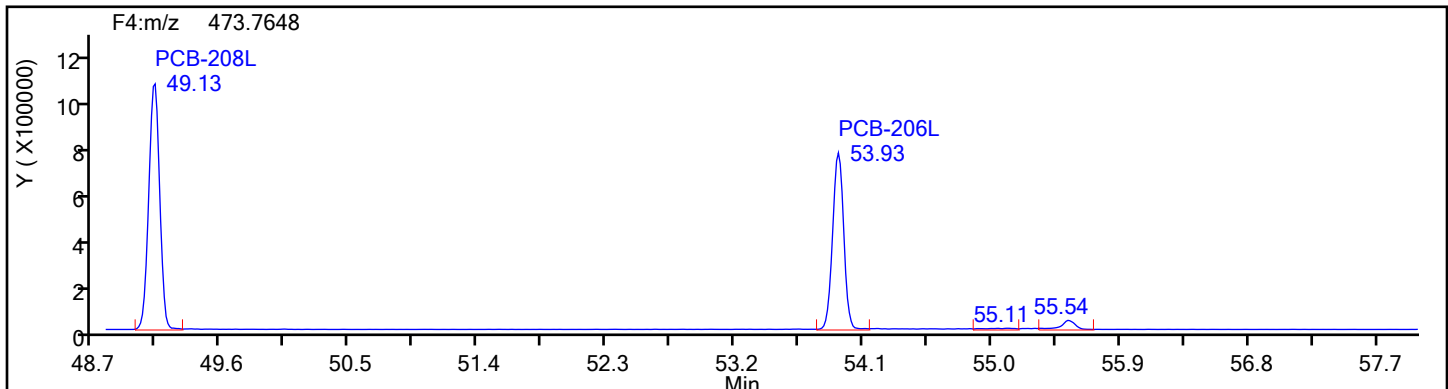


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



## NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

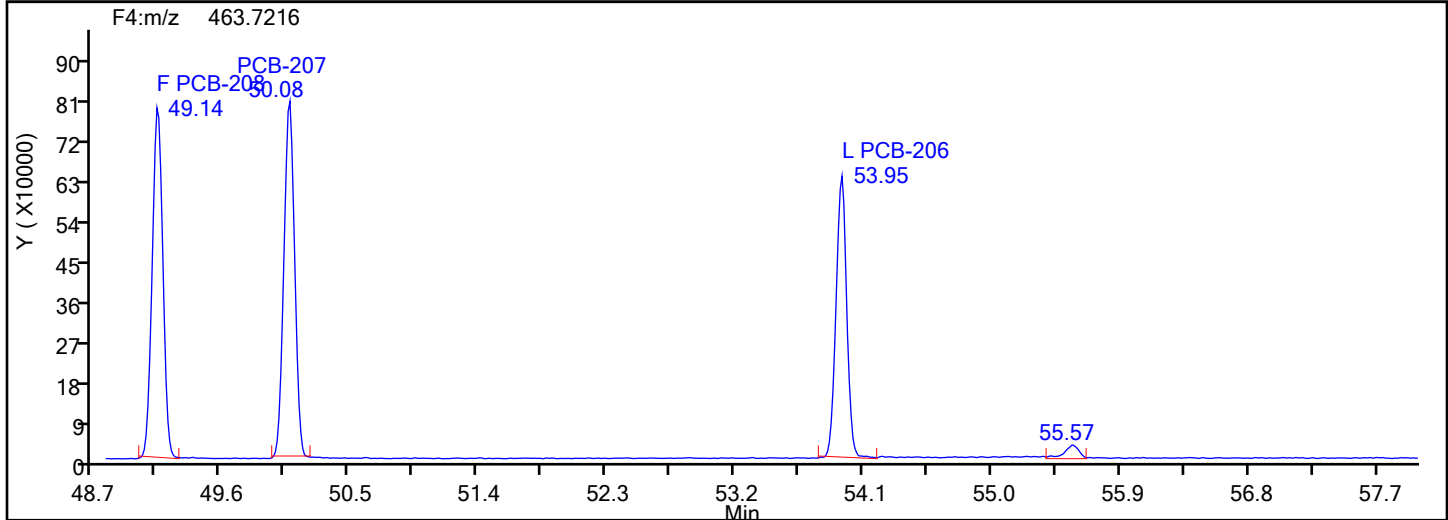
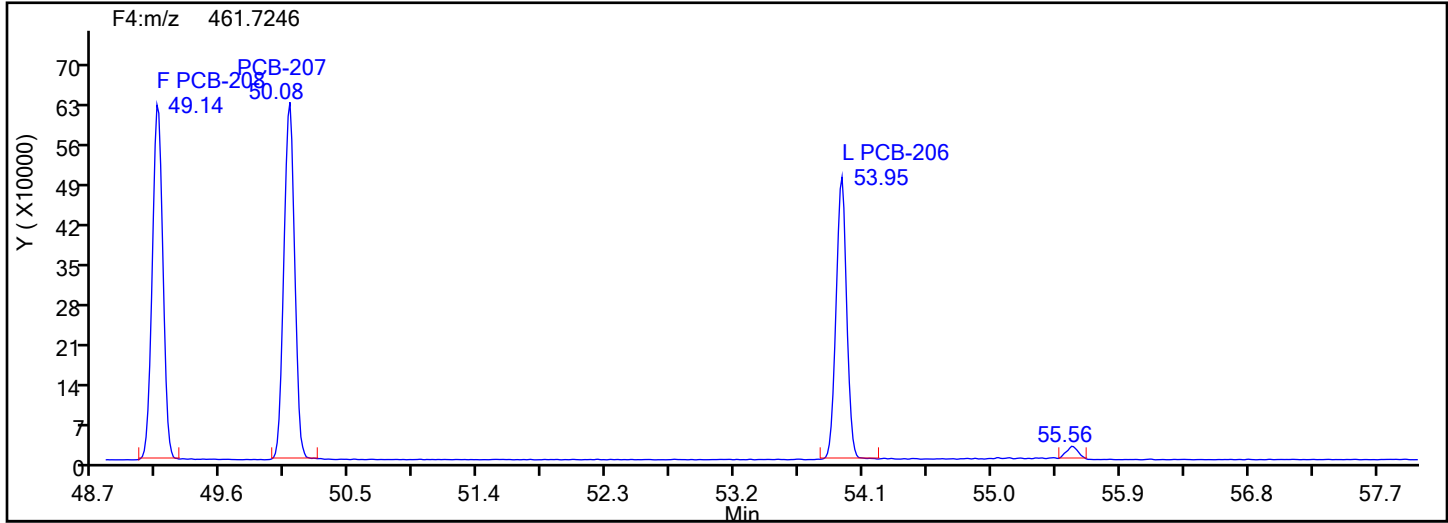
Worklist#: 88205

Sample Line#: 1

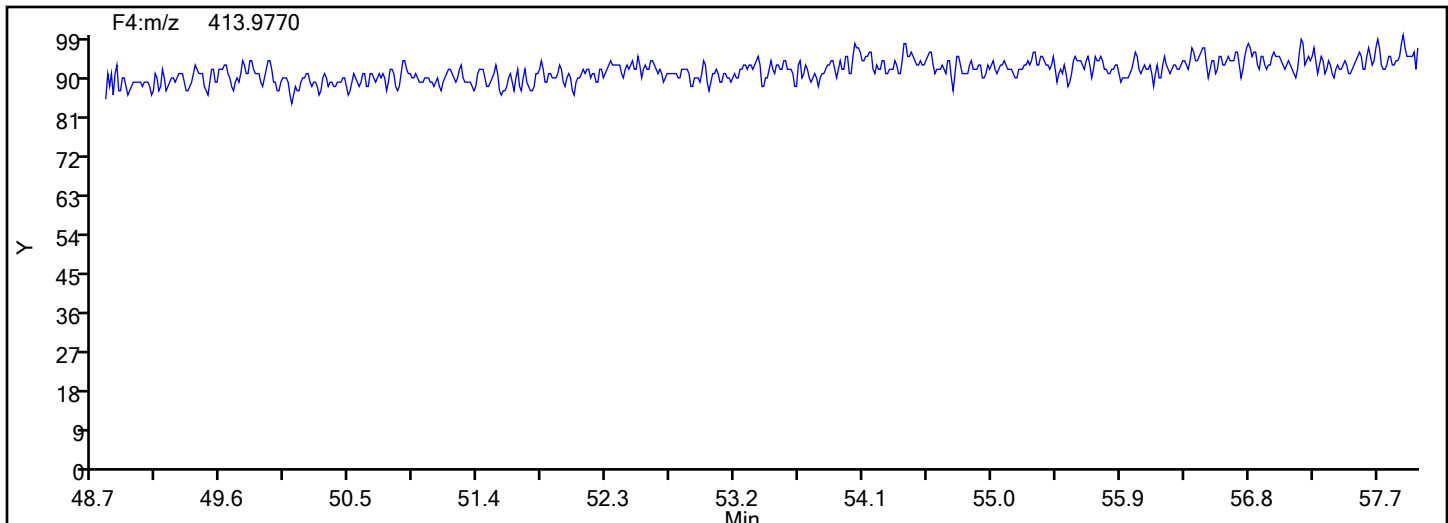
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

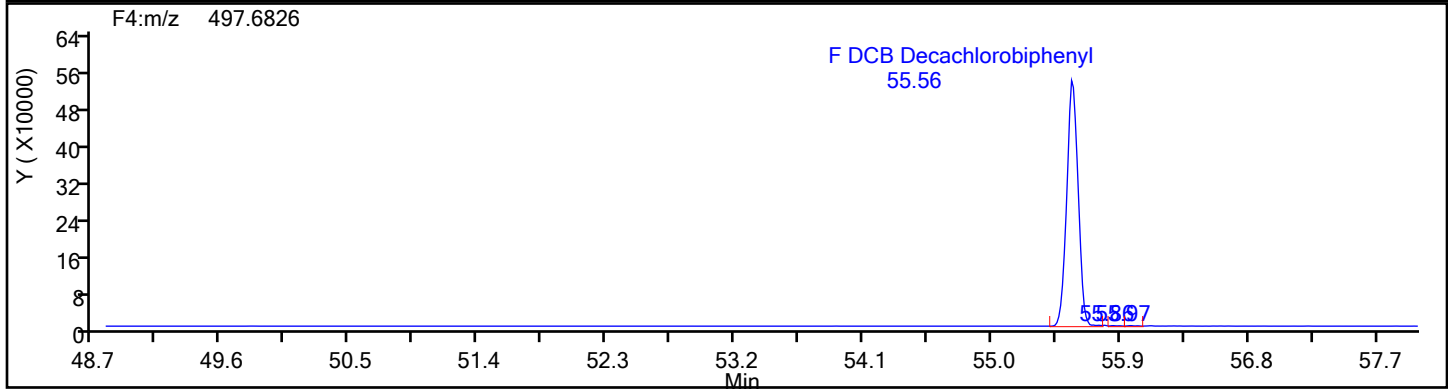
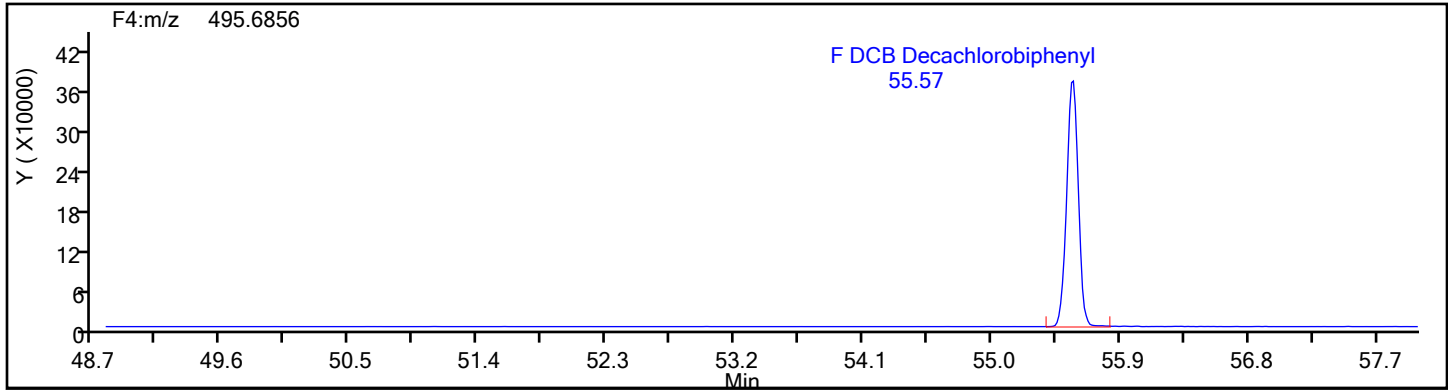


NoPCB F4 Lock Mass

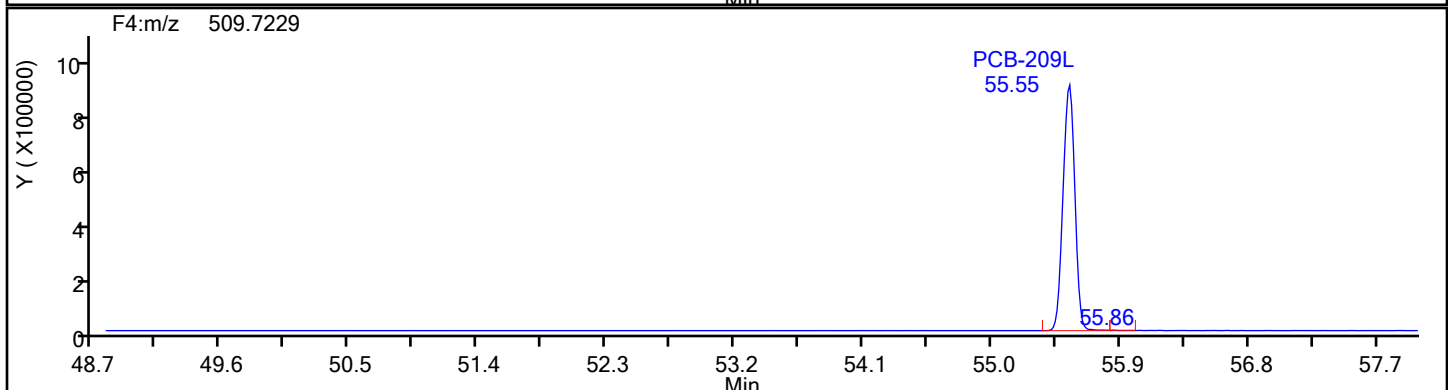
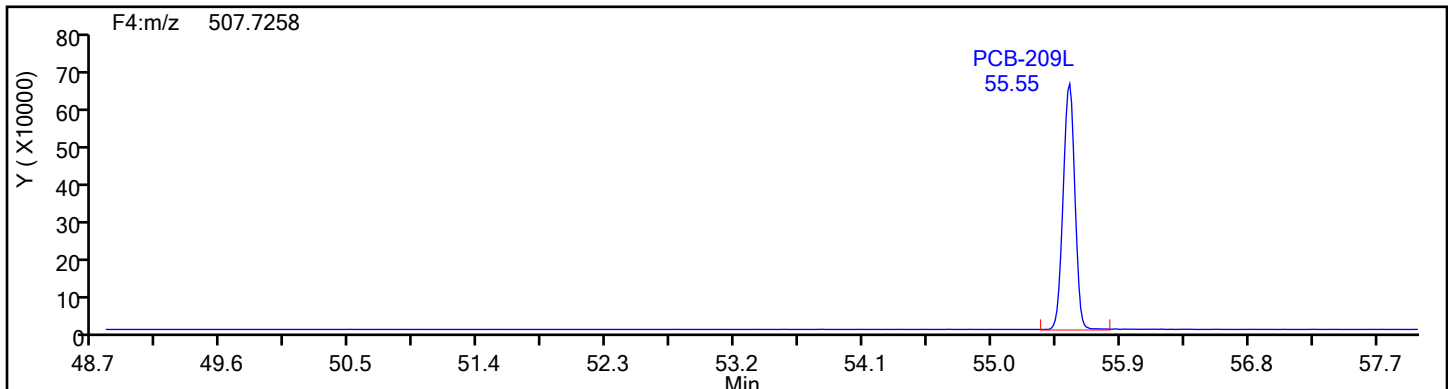


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d  
Injection Date: 27-Jun-2024 22:00:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\d2240627c2a.d

Injection Date: 27-Jun-2024 22:00:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

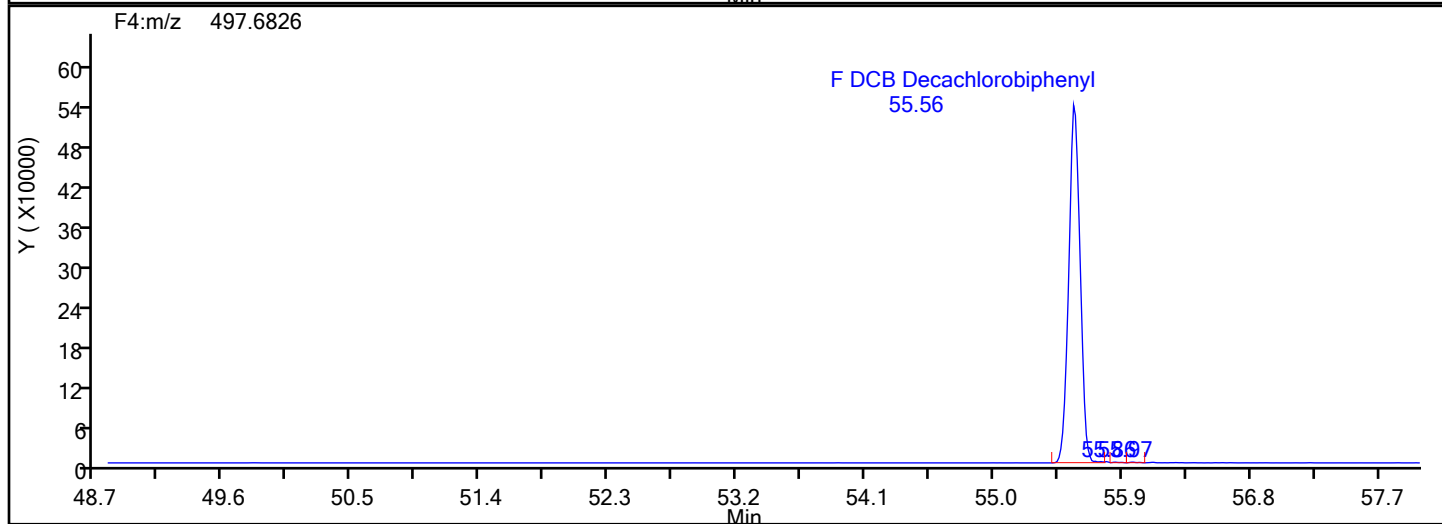
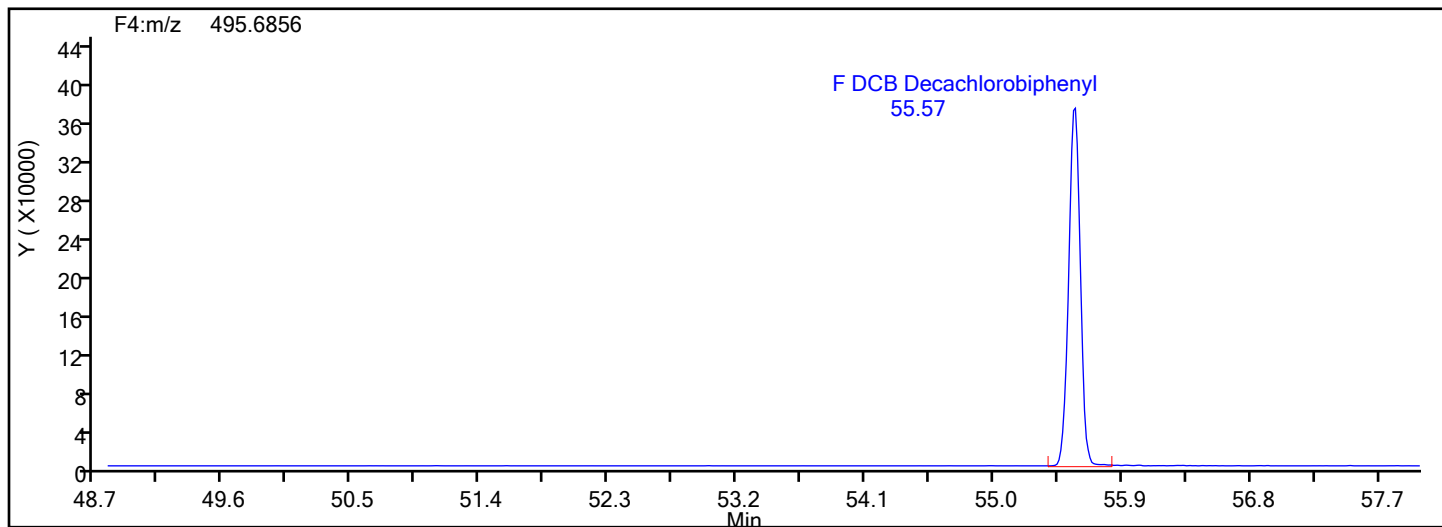
Worklist#: 88205

Sample Line#: 1

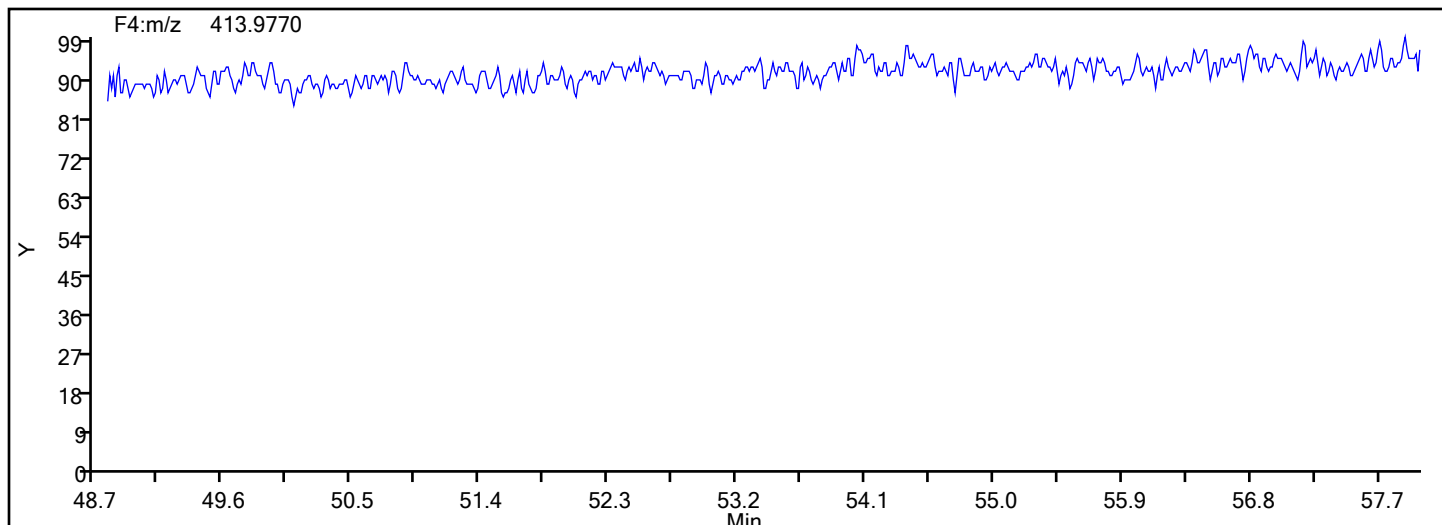
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



## DePCB F4 Lock Mass



FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88219/1 Calibration Date: 06/28/2024 09:53  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240628c1b.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1	AveID	1.219	1.060		43.5	50.0	-13.1	25.0
PCB-2	AveID	1.181	1.061		45.0	50.0	-10.1	25.0
PCB-3	AveID	1.221	1.071		43.9	50.0	-12.2	25.0
PCB-4	AveID	1.282	1.315		51.3	50.0	2.6	25.0
PCB-10	AveID	1.315	1.366		51.9	50.0	3.9	25.0
PCB-9	AveID	1.422	1.455		51.2	50.0	2.3	25.0
PCB-7	AveID	1.413	1.437		50.8	50.0	1.6	25.0
PCB-6	AveID	1.542	1.571		50.9	50.0	1.9	25.0
PCB-5	AveID	1.339	1.359		50.7	50.0	1.5	25.0
PCB-8	AveID	1.589	1.632		51.3	50.0	2.7	25.0
PCB-19	AveID	1.281	1.345		52.5	50.0	5.0	25.0
PCB-14	AveID	1.402	1.480		52.8	50.0	5.5	25.0
PCB-18	AveID	1.765	1.872		106	100	6.0	25.0
PCB-18/30	AveID	1.765	1.872		106	100	6.0	25.0
PCB-30	AveID	1.765	1.872		106	100	6.0	25.0
PCB-11	AveID	1.295	1.418		54.7	50.0	9.5	25.0
PCB-17	AveID	1.243	1.361		54.7	50.0	9.5	25.0
PCB-12	AveID	1.336	1.447		108	100	8.3	25.0
PCB-12/13	AveID	1.336	1.447		108	100	8.3	25.0
PCB-13	AveID	1.336	1.447		108	100	8.3	25.0
PCB-27	AveID	1.833	2.013		54.9	50.0	9.8	25.0
PCB-24	AveID	1.678	1.857		55.3	50.0	10.7	25.0
PCB-16	AveID	1.129	1.273		56.4	50.0	12.8	25.0
PCB-15	AveID	1.290	1.328		51.5	50.0	2.9	25.0
PCB-54	AveID	1.273	1.268		49.8	50.0	-0.4	25.0
PCB-32	AveID	1.832	2.004		54.7	50.0	9.4	25.0
PCB-34	AveID	1.128	0.9041		40.1	50.0	-19.8	25.0
PCB-23	AveID	1.081	0.8719		40.3	50.0	-19.4	25.0
PCB-26	AveID	1.125	0.8836		78.5	100	-21.5	25.0
PCB-26/29	AveID	1.125	0.8836		78.5	100	-21.5	25.0
PCB-29	AveID	1.125	0.8836		78.5	100	-21.5	25.0
PCB-25	AveID	1.273	1.021		40.1	50.0	-19.8	25.0
PCB-50	AveID	0.8578	0.7378		86.0	100	-14.0	25.0
PCB-50/53	AveID	0.8578	0.7378		86.0	100	-14.0	25.0
PCB-53	AveID	0.8578	0.7378		86.0	100	-14.0	25.0
PCB-31	AveID	1.153	0.9176		39.8	50.0	-20.4	25.0
PCB-20	AveID	1.172	0.9134		77.9	100	-22.1	25.0
PCB-20/28	AveID	1.172	0.9134		77.9	100	-22.1	25.0
PCB-28	AveID	1.172	0.9134		77.9	100	-22.1	25.0
PCB-21	AveID	1.075	0.8625		80.3	100	-19.7	25.0
PCB-21/33	AveID	1.075	0.8625		80.3	100	-19.7	25.0



FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88219/1 Calibration Date: 06/28/2024 09:53  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240628c1b.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-33	AveID	1.075	0.8625		80.3	100	-19.7	25.0
PCB-45	AveID	0.8264	0.7352		89.0	100	-11.0	25.0
PCB-45/51	AveID	0.8264	0.7352		89.0	100	-11.0	25.0
PCB-51	AveID	0.8264	0.7352		89.0	100	-11.0	25.0
PCB-46	AveID	0.7101	0.6233		43.9	50.0	-12.2	25.0
PCB-22	AveID	1.193	0.9808		41.1	50.0	-17.8	25.0
PCB-52	AveID	0.9194	0.8535		46.4	50.0	-7.2	25.0
PCB-43	AveID	1.033	0.9291		89.9	100	-10.1	25.0
PCB-43/73	AveID	1.033	0.9291		89.9	100	-10.1	25.0
PCB-73	AveID	1.033	0.9291		89.9	100	-10.1	25.0
PCB-36	AveID	1.107	0.8801		39.8	50.0	-20.5	25.0
PCB-49	AveID	1.069	0.9403		88.0	100	-12.0	25.0
PCB-49/69	AveID	1.069	0.9403		88.0	100	-12.0	25.0
PCB-69	AveID	1.069	0.9403		88.0	100	-12.0	25.0
PCB-39	AveID	1.158	0.9706		41.9	50.0	-16.2	25.0
PCB-48	AveID	0.8399	0.7582		45.1	50.0	-9.7	25.0
PCB-104	AveID	1.009	1.060		52.5	50.0	5.0	25.0
PCB-44	AveID	0.9731	0.8538		132	150	-12.3	25.0
PCB-44/47/65	AveID	0.9731	0.8538		132	150	-12.3	25.0
PCB-47	AveID	0.9731	0.8538		132	150	-12.3	25.0
PCB-65	AveID	0.9731	0.8538		132	150	-12.3	25.0
PCB-38	AveID	1.084	0.8670		40.0	50.0	-20.0	25.0
PCB-59	AveID	1.185	1.019		129	150	-14.1	25.0
PCB-59/62/75	AveID	1.185	1.019		129	150	-14.1	25.0
PCB-62	AveID	1.185	1.019		129	150	-14.1	25.0
PCB-75	AveID	1.185	1.019		129	150	-14.1	25.0
PCB-96	AveID	1.094	1.092		49.9	50.0	-0.2	25.0
PCB-42	AveID	0.8097	0.7385		45.6	50.0	-8.8	25.0
PCB-35	AveID	1.130	0.9230		40.9	50.0	-18.3	25.0
PCB-40	AveID	0.8863	0.7861		133	150	-11.3	25.0
PCB-40/41/71	AveID	0.8863	0.7861		133	150	-11.3	25.0
PCB-41	AveID	0.8863	0.7861		133	150	-11.3	25.0
PCB-71	AveID	0.8863	0.7861		133	150	-11.3	25.0
PCB-37	AveID	1.144	0.9022		39.5	50.0	-21.1	25.0
PCB-64	AveID	1.178	1.018		43.2	50.0	-13.5	25.0
PCB-72	AveID	1.094	1.000		45.7	50.0	-8.6	25.0
PCB-103	AveID	0.8741	0.9232		52.8	50.0	5.6	25.0
PCB-68	AveID	1.253	1.158		46.2	50.0	-7.6	25.0
PCB-94	AveID	0.7640	0.7779		50.9	50.0	1.8	25.0
PCB-57	AveID	1.082	1.025		47.4	50.0	-5.3	25.0
PCB-95	AveID	0.8033	0.8734		54.4	50.0	8.7	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88219/1 Calibration Date: 06/28/2024 09:53  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240628c1b.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-58	AveID	1.325	1.278		48.2	50.0	-3.6	25.0
PCB-100	AveID	0.8429	0.8781		104	100	4.2	25.0
PCB-93	AveID	0.8429	0.8781		104	100	4.2	25.0
PCB-93/100	AveID	0.8429	0.8781		104	100	4.2	25.0
PCB-67	AveID	1.423	1.266		44.5	50.0	-11.0	25.0
PCB-102	AveID	0.8262	0.8626		104	100	4.4	25.0
PCB-98	AveID	0.8262	0.8626		104	100	4.4	25.0
PCB-98/102	AveID	0.8262	0.8626		104	100	4.4	25.0
PCB-63	AveID	1.124	1.012		45.0	50.0	-9.9	25.0
PCB-88	AveID	0.8013	0.8462		106	100	5.6	25.0
PCB-88/91	AveID	0.8013	0.8462		106	100	5.6	25.0
PCB-91	AveID	0.8013	0.8462		106	100	5.6	25.0
PCB-61	AveID	1.261	1.123		178	200	-11.0	25.0
PCB-61/70/74/76	AveID	1.261	1.123		178	200	-11.0	25.0
PCB-70	AveID	1.261	1.123		178	200	-11.0	25.0
PCB-74	AveID	1.261	1.123		178	200	-11.0	25.0
PCB-76	AveID	1.261	1.123		178	200	-11.0	25.0
PCB-84	AveID	0.7299	0.7714		52.8	50.0	5.7	25.0
PCB-66	AveID	1.258	1.191		47.3	50.0	-5.4	25.0
PCB-55	AveID	1.324	1.278		48.3	50.0	-3.4	25.0
PCB-89	AveID	0.7798	0.8234		52.8	50.0	5.6	25.0
PCB-56	AveID	1.233	1.200		48.6	50.0	-2.7	25.0
PCB-121	AveID	1.296	1.386		53.5	50.0	6.9	25.0
PCB-60	AveID	1.123	1.048		46.7	50.0	-6.7	25.0
PCB-92	AveID	0.8546	0.9250		54.1	50.0	8.2	25.0
PCB-80	AveID	1.324	1.265		47.7	50.0	-4.5	25.0
PCB-155	AveID	0.9444	0.9647		51.1	50.0	2.2	25.0
PCB-152	AveID	0.9895	0.9950		50.3	50.0	0.6	25.0
PCB-101	AveID	0.9550	1.012		159	150	6.0	25.0
PCB-113	AveID	0.9550	1.012		159	150	6.0	25.0
PCB-90	AveID	0.9550	1.012		159	150	6.0	25.0
PCB-90/101/113	AveID	0.9550	1.012		159	150	6.0	25.0
PCB-150	AveID	1.013	1.059		52.3	50.0	4.5	25.0
PCB-136	AveID	1.012	1.039		51.3	50.0	2.7	25.0
PCB-83	AveID	0.8385	0.9038		108	100	7.8	25.0
PCB-83/99	AveID	0.8385	0.9038		108	100	7.8	25.0
PCB-99	AveID	0.8385	0.9038		108	100	7.8	25.0
PCB-112	AveID	1.411	1.501		53.2	50.0	6.4	25.0
PCB-145	AveID	0.9685	1.010		52.2	50.0	4.3	25.0
PCB-109	AveID	1.047	1.093		313	300	4.3	25.0
PCB-119	AveID	1.047	1.093		313	300	4.3	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88219/1 Calibration Date: 06/28/2024 09:53

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240628c1b.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-125	AveID	1.047	1.093		313	300	4.3	25.0
PCB-86	AveID	1.047	1.093		313	300	4.3	25.0
PCB-86/87/97/109/119/125	AveID	1.047	1.093		313	300	4.3	25.0
PCB-87	AveID	1.047	1.093		313	300	4.3	25.0
PCB-97	AveID	1.047	1.093		313	300	4.3	25.0
PCB-79	AveID	1.437	1.271		44.2	50.0	-11.5	25.0
PCB-78	AveID	1.162	1.083		46.6	50.0	-6.8	25.0
PCB-116	AveID	1.041	1.112		160	150	6.8	25.0
PCB-117	AveID	1.041	1.112		160	150	6.8	25.0
PCB-85	AveID	1.041	1.112		160	150	6.8	25.0
PCB-85/116/117	AveID	1.041	1.112		160	150	6.8	25.0
PCB-110	AveID	1.192	1.275		107	100	7.0	25.0
PCB-110/115	AveID	1.192	1.275		107	100	7.0	25.0
PCB-115	AveID	1.192	1.275		107	100	7.0	25.0
PCB-81	AveID	1.080	1.021		47.2	50.0	-5.5	25.0
PCB-148	AveID	0.7603	0.8014		52.7	50.0	5.4	25.0
PCB-82	AveID	0.8303	0.9298		56.0	50.0	12.0	25.0
PCB-77	AveID	1.084	1.034		47.7	50.0	-4.6	25.0
PCB-111	AveID	1.213	1.320		54.4	50.0	8.9	25.0
PCB-135	AveID	0.7256	0.7802		108	100	7.5	25.0
PCB-135/151	AveID	0.7256	0.7802		108	100	7.5	25.0
PCB-151	AveID	0.7256	0.7802		108	100	7.5	25.0
PCB-120	AveID	1.476	1.594		54.0	50.0	8.0	25.0
PCB-154	AveID	0.8129	0.8696		53.5	50.0	7.0	25.0
PCB-144	AveID	0.7852	0.8428		53.7	50.0	7.3	25.0
PCB-147	AveID	0.8950	0.8955		100	100	0.0	25.0
PCB-147/149	AveID	0.8950	0.8955		100	100	0.0	25.0
PCB-149	AveID	0.8950	0.8955		100	100	0.0	25.0
PCB-134	AveID	0.7967	0.7414		93.1	100	-6.9	25.0
PCB-134/143	AveID	0.7967	0.7414		93.1	100	-6.9	25.0
PCB-143	AveID	0.7967	0.7414		93.1	100	-6.9	25.0
PCB-108	AveID	1.141	0.9004		79.0	100	-21.1	25.0
PCB-108/124	AveID	1.141	0.9004		79.0	100	-21.1	25.0
PCB-124	AveID	1.141	0.9004		79.0	100	-21.1	25.0
PCB-139	AveID	0.8769	0.7961		90.8	100	-9.2	25.0
PCB-139/140	AveID	0.8769	0.7961		90.8	100	-9.2	25.0
PCB-140	AveID	0.8769	0.7961		90.8	100	-9.2	25.0
PCB-107	AveID	1.212	0.9851		40.6	50.0	-18.7	25.0
PCB-123	AveID	1.072	0.9196		42.9	50.0	-14.2	25.0
PCB-131	AveID	0.7503	0.6932		46.2	50.0	-7.6	25.0
PCB-106	AveID	1.084	0.8796		40.6	50.0	-18.9	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88219/1 Calibration Date: 06/28/2024 09:53

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240628c1b.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-142	AveID	0.7507	0.7107		47.3	50.0	-5.3	25.0
PCB-118	AveID	1.206	0.9936		41.2	50.0	-17.6	25.0
PCB-132	AveID	0.7489	0.6817		45.5	50.0	-9.0	25.0
PCB-122	AveID	0.9567	0.8376		43.8	50.0	-12.4	25.0
PCB-114	AveID	1.084	0.9136		42.1	50.0	-15.7	25.0
PCB-188	AveID	1.135	1.162		51.2	50.0	2.4	25.0
PCB-133	AveID	0.8096	0.7581		46.8	50.0	-6.4	25.0
PCB-179	AveID	1.428	1.429		50.1	50.0	0.1	25.0
PCB-165	AveID	1.025	0.9828		48.0	50.0	-4.1	25.0
PCB-105	AveID	1.188	0.998		42.0	50.0	-16.0	25.0
PCB-146	AveID	0.9637	0.9428		48.9	50.0	-2.2	25.0
PCB-184	AveID	1.367	1.365		49.9	50.0	-0.1	25.0
PCB-161	AveID	1.129	1.035		45.9	50.0	-8.3	25.0
PCB-176	AveID	1.233	1.248		50.6	50.0	1.2	25.0
PCB-153	AveID	1.094	1.029		94.1	100	-5.9	25.0
PCB-153/168	AveID	1.094	1.029		94.1	100	-5.9	25.0
PCB-168	AveID	1.094	1.029		94.1	100	-5.9	25.0
PCB-141	AveID	0.8755	0.8210		46.9	50.0	-6.2	25.0
PCB-186	AveID	1.474	1.528		51.8	50.0	3.7	25.0
PCB-130	AveID	0.7051	0.6713		47.6	50.0	-4.8	25.0
PCB-127	AveID	1.139	0.9651		42.4	50.0	-15.3	25.0
PCB-137	AveID	0.7767	0.7567		48.7	50.0	-2.6	25.0
PCB-164	AveID	1.038	1.002		48.3	50.0	-3.5	25.0
PCB-129	AveID	0.9464	0.8936		189	200	-5.6	25.0
PCB-129/138/160/163	AveID	0.9464	0.8936		189	200	-5.6	25.0
PCB-138	AveID	0.9464	0.8936		189	200	-5.6	25.0
PCB-160	AveID	0.9464	0.8936		189	200	-5.6	25.0
PCB-163	AveID	0.9464	0.8936		189	200	-5.6	25.0
PCB-158	AveID	1.311	1.197		45.7	50.0	-8.7	25.0
PCB-178	AveID	0.8946	0.9327		52.1	50.0	4.3	25.0
PCB-175	AveID	0.9524	1.002		52.6	50.0	5.2	25.0
PCB-126	AveID	1.098	0.9584		43.7	50.0	-12.7	25.0
PCB-128	AveID	0.9829	0.9222		93.8	100	-6.2	25.0
PCB-128/166	AveID	0.9829	0.9222		93.8	100	-6.2	25.0
PCB-166	AveID	0.9829	0.9222		93.8	100	-6.2	25.0
PCB-187	AveID	1.102	1.154		52.4	50.0	4.7	25.0
PCB-182	AveID	0.9247	1.009		54.6	50.0	9.1	25.0
PCB-183	AveID	0.9825	0.9881		101	100	0.6	25.0
PCB-183/185	AveID	0.9825	0.9881		101	100	0.6	25.0
PCB-185	AveID	0.9825	0.9881		101	100	0.6	25.0
PCB-174	AveID	0.9642	1.034		53.6	50.0	7.2	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88219/1 Calibration Date: 06/28/2024 09:53

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240628c1b.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-159	AveID	1.386	1.285		46.4	50.0	-7.2	25.0
PCB-162	AveID	1.257	1.186		47.2	50.0	-5.6	25.0
PCB-177	AveID	0.9773	1.041		53.3	50.0	6.5	25.0
PCB-202	AveID	1.036	1.098		53.0	50.0	6.0	25.0
PCB-167	AveID	1.116	1.057		47.4	50.0	-5.3	25.0
PCB-181	AveID	0.9505	0.9907		52.1	50.0	4.2	25.0
PCB-171	AveID	0.9336	0.9384		101	100	0.5	25.0
PCB-171/173	AveID	0.9336	0.9384		101	100	0.5	25.0
PCB-173	AveID	0.9336	0.9384		101	100	0.5	25.0
PCB-201	AveID	0.9754	1.035		53.1	50.0	6.1	25.0
PCB-156	AveID	1.110	1.056		95.1	100	-4.9	25.0
PCB-156/157	AveID	1.110	1.056		95.1	100	-4.9	25.0
PCB-157	AveID	1.110	1.056		95.1	100	-4.9	25.0
PCB-204	AveID	1.049	1.082		51.6	50.0	3.2	25.0
PCB-197	AveID	1.146	1.124		49.1	50.0	-1.9	25.0
PCB-200	AveID	1.007	1.112		55.2	50.0	10.4	25.0
PCB-172	AveID	0.8519	0.9037		53.0	50.0	6.1	25.0
PCB-192	AveID	1.346	1.492		55.4	50.0	10.9	25.0
PCB-180	AveID	1.168	1.240		106	100	6.2	25.0
PCB-180/193	AveID	1.168	1.240		106	100	6.2	25.0
PCB-193	AveID	1.168	1.240		106	100	6.2	25.0
PCB-191	AveID	1.289	1.404		54.5	50.0	8.9	25.0
PCB-170	AveID	1.187	1.169		49.3	50.0	-1.4	25.0
PCB-190	AveID	1.332	1.414		53.1	50.0	6.2	25.0
PCB-169	AveID	1.163	1.105		47.5	50.0	-5.0	25.0
PCB-198	AveID	0.8698	0.9120		105	100	4.9	25.0
PCB-198/199	AveID	0.8698	0.9120		105	100	4.9	25.0
PCB-199	AveID	0.8698	0.9120		105	100	4.9	25.0
PCB-196	AveID	0.7806	0.7935		50.8	50.0	1.7	25.0
PCB-203	AveID	0.9292	0.9837		52.9	50.0	5.9	25.0
PCB-208	AveID	1.137	1.127		49.6	50.0	-0.9	25.0
PCB-195	AveID	0.8263	0.8184		49.5	50.0	-1.0	25.0
PCB-189	AveID	0.9633	0.8717		45.2	50.0	-9.5	25.0
PCB-207	AveID	1.376	1.339		48.7	50.0	-2.7	25.0
PCB-194	AveID	0.9735	0.8910		45.8	50.0	-8.5	25.0
PCB-205	AveID	1.088	1.007		46.3	50.0	-7.4	25.0
PCB-206	AveID	1.335	1.260		47.2	50.0	-5.6	25.0
PCB-209	AveID	1.100	1.128		51.3	50.0	2.5	25.0
PCB-1L	Ave	1.611	1.555		96.6	100	-3.4	30.0
PCB-3L	Ave	1.589	1.545		97.3	100	-2.8	30.0
PCB-4L	Ave	0.6475	0.6441		99.5	100	-0.5	30.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88219/1 Calibration Date: 06/28/2024 09:53

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240628c1b.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-19L	Ave	0.6285	0.5884		93.6	100	-6.4	30.0
PCB-15L	Ave	1.079	1.091		101	100	1.1	30.0
PCB-54L	Ave	0.5562	0.5827		105	100	4.8	30.0
PCB-104L	Ave	1.216	1.193		98.1	100	-1.9	30.0
PCB-37L	Ave	0.8749	0.8882		102	100	1.5	30.0
PCB-155L	Ave	1.085	1.030		94.9	100	-5.1	30.0
PCB-81L	Ave	1.247	1.298		104	100	4.1	30.0
PCB-77L	Ave	1.321	1.379		104	100	4.3	30.0
PCB-123L	Ave	0.9731	0.9476		97.4	100	-2.6	30.0
PCB-118L	Ave	1.010	1.019		101	100	0.8	30.0
PCB-114L	Ave	0.9949	1.019		103	100	2.5	30.0
PCB-188L	Ave	1.313	1.266		96.4	100	-3.6	30.0
PCB-105L	Ave	0.9514	0.9850		104	100	3.5	30.0
PCB-126L	Ave	0.9439	0.9598		102	100	1.7	30.0
PCB-202L	Ave	0.9818	0.9200		93.7	100	-6.3	30.0
PCB-167L	Ave	1.257	1.272		101	100	1.1	30.0
PCB-156L	Ave	1.211	1.249		206	200	3.1	30.0
PCB-156L/157L	Ave	1.211	1.249		206	200	3.1	30.0
PCB-157L	Ave	1.211	1.249		206	200	3.1	30.0
PCB-170L	Ave	0.8362	0.8510		102	100	1.8	30.0
PCB-169L	Ave	1.244	1.266		102	100	1.8	30.0
PCB-208L	Ave	0.9576	1.092		114	100	14.0	30.0
PCB-189L	Ave	1.441	1.152		79.9	100	-20.1	30.0
PCB-205L	Ave	1.179	1.193		101	100	1.3	30.0
PCB-206L	Ave	0.6947	0.7403		107	100	6.6	30.0
PCB-209L	Ave	0.6669	0.7288		109	100	9.3	30.0
PCB-8L	AveID	1.207	1.128		46.8	50.0	-6.5	25.0
PCB-28L	Ave	1.049	0.9923		47.3	50.0	-5.4	30.0
PCB-95L	AveID	0.7218	0.7255		50.3	50.0	0.5	25.0
PCB-79L	AveID	1.002	0.9820		49.0	50.0	-2.0	25.0
PCB-111L	Ave	1.370	1.298		47.4	50.0	-5.3	30.0
PCB-153L	AveID	0.9169	0.8107		44.2	50.0	-11.6	25.0
PCB-178L	Ave	1.031	0.9346		45.3	50.0	-9.4	30.0

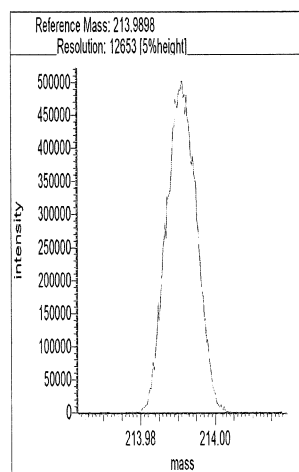
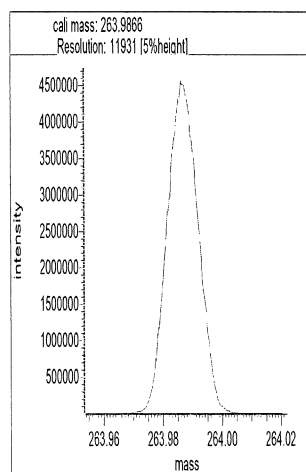
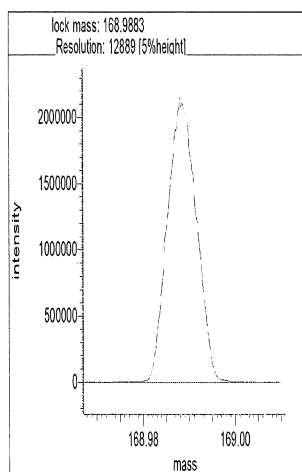
# Resolution Check Report ( DFS SN: 3190 )

Date: 28 Jun 2024 09:25  
MID Experiment: ResCheck\_1668  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43KnxPCB.lua  
Status: RESOLUTION PASSED

## Segment 1

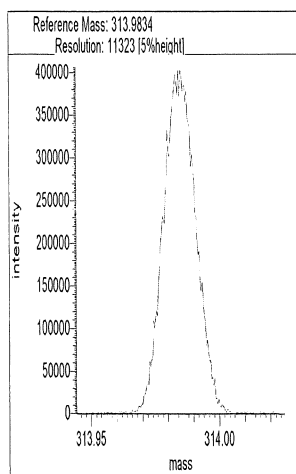
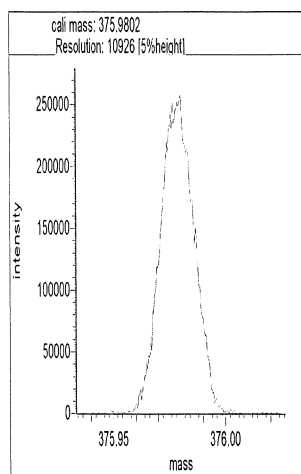
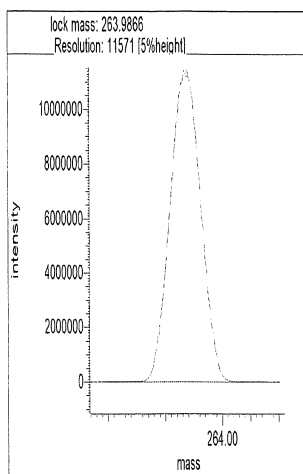
Lock mass 168.9883 [m/z] Resolution: 12889 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 11931 [5%height]  
Ref. mass 213.9898 [m/z] Resolution: 12653 [5%height]

-d 2290628.1



## Segment 2

Lock mass 263.9866 [m/z] Resolution: 11571 [5%height]  
Cali. mass 375.9802 [m/z] Resolution: 10926 [5%height]  
Ref. mass 313.9834 [m/z] Resolution: 11323 [5%height]

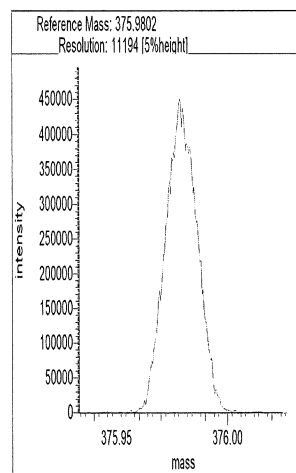
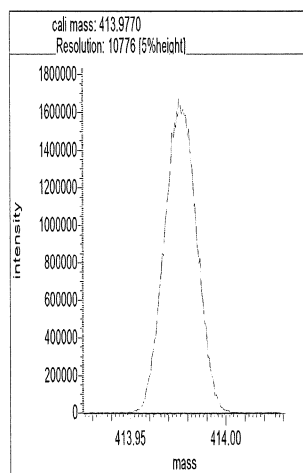
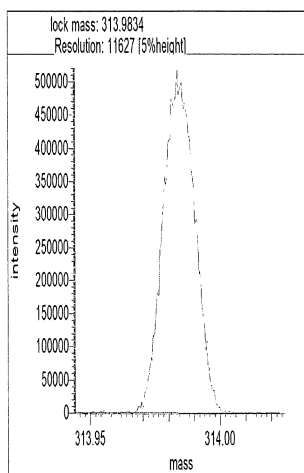


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11627 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10776 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 11194 [5%height]



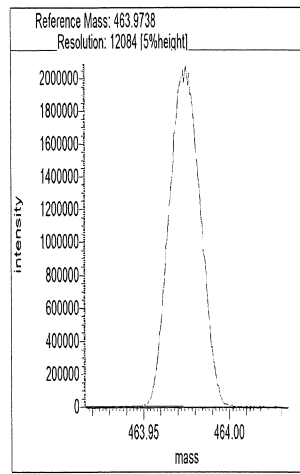
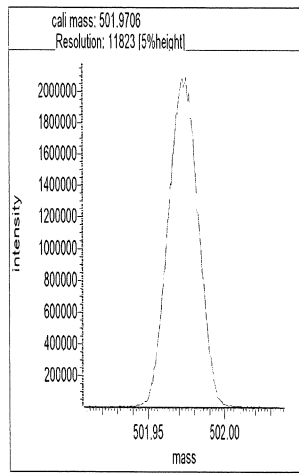
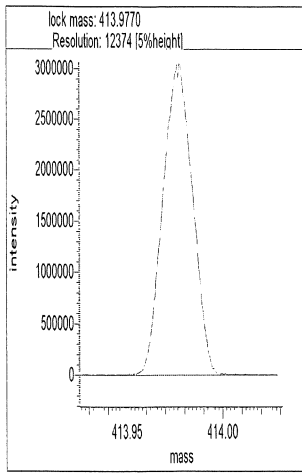
### Segment 4

Lock mass 413.9770 [m/z] Resolution: 12374 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11823 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 12084 [5%height]

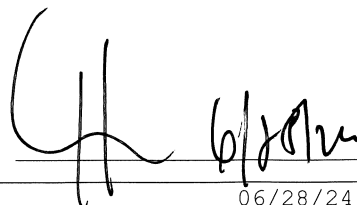




## Reports

09:34:23: Peak matching procedure started  
09:34:24:  
09:34:24: Reference mass: 168.98827  
09:34:25: Sample mass: 214.0  
09:34:25:  
09:34:26: Finding reference mass  
09:34:27: Finding sample mass  
09:34:27:  
09:34:33: [1] 213.9895 amu, mean: 213.9895  
09:34:37: [2] 213.9896 amu, mean: 213.9895 SD: 0.04 mmu or: 0.16 ppm  
09:34:40: [3] 213.9898 amu, mean: 213.9896 SD: 0.14 mmu or: 0.66 ppm  
09:34:43: [4] 213.9897 amu, mean: 213.9896 SD: 0.12 mmu or: 0.57 ppm  
09:34:44:  
09:34:44: Stop requested. Please wait for procedure to finish.  
09:34:44:  
09:34:46: [5] 213.9897 amu, mean: 213.9897 SD: 0.11 mmu or: 0.52 ppm  
09:34:48:  
09:34:48: Peakmatching stopped

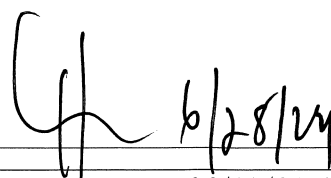
Signature



## Reports

09:35:00: Peak matching procedure started  
09:35:00:  
09:35:01: Reference mass: 213.98975  
09:35:01: Sample mass: 264.0  
09:35:02:  
09:35:02: Finding reference mass  
09:35:03: Finding sample mass  
09:35:03:  
09:35:09: [1] 263.9867 amu, mean: 263.9867  
09:35:12: [2] 263.9865 amu, mean: 263.9866 SD: 0.14 mmu or: 0.53 ppm  
09:35:15: [3] 263.9865 amu, mean: 263.9865 SD: 0.10 mmu or: 0.39 ppm  
09:35:19: [4] 263.9867 amu, mean: 263.9866 SD: 0.10 mmu or: 0.38 ppm  
09:35:19:  
09:35:19: Stop requested. Please wait for procedure to finish.  
09:35:19:  
09:35:22:  
09:35:22: Peakmatching stopped

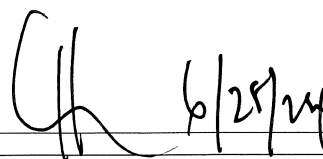
Signature



## Reports

09:35:32: Peak matching procedure started  
09:35:33:  
09:35:33: Reference mass: 263.98656  
09:35:34: Sample mass: 314.0  
09:35:34:  
09:35:35: Finding reference mass  
09:35:36: Finding sample mass  
09:35:36:  
09:35:42: [1] 313.9838 amu, mean: 313.9838  
09:35:45: [2] 313.9836 amu, mean: 313.9837 SD: 0.09 mmu or: 0.28 ppm  
09:35:48: [3] 313.9840 amu, mean: 313.9838 SD: 0.17 mmu or: 0.54 ppm  
09:35:51: [4] 313.9831 amu, mean: 313.9836 SD: 0.38 mmu or: 1.22 ppm  
09:35:52:  
09:35:52: Stop requested. Please wait for procedure to finish.  
09:35:52:  
09:35:55:  
09:35:55: Peakmatching stopped

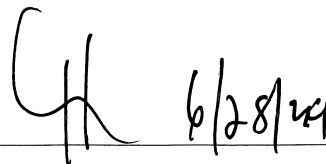
Signature



## Reports

09:36:07: Peak matching procedure started  
09:36:08:  
09:36:08: Reference mass: 313.98336  
09:36:09: Sample mass: 376.0  
09:36:09:  
09:36:10: Finding reference mass  
09:36:11: Finding sample mass  
09:36:11:  
09:36:17: [1] 375.9809 amu, mean: 375.9809  
09:36:20: [2] 375.9802 amu, mean: 375.9805 SD: 0.55 mmu or: 1.45 ppm  
09:36:23: [3] 375.9802 amu, mean: 375.9804 SD: 0.43 mmu or: 1.15 ppm  
09:36:27: [4] 375.9802 amu, mean: 375.9804 SD: 0.38 mmu or: 1.00 ppm  
09:36:28:  
09:36:28: Stop requested. Please wait for procedure to finish.  
09:36:28:  
09:36:30: [5] 375.9810 amu, mean: 375.9805 SD: 0.42 mmu or: 1.12 ppm  
09:36:31:  
09:36:32: Peakmatching stopped


Signature



## Reports

09:36:07: Peak matching procedure started  
09:36:08:  
09:36:08: Reference mass: 313.98336  
09:36:09: Sample mass: 376.0  
09:36:09:  
09:36:10: Finding reference mass  
09:36:11: Finding sample mass  
09:36:11:  
09:36:17: [1] 375.9809 amu, mean: 375.9809  
09:36:20: [2] 375.9802 amu, mean: 375.9805 SD: 0.55 mmu or: 1.45 ppm  
09:36:23: [3] 375.9802 amu, mean: 375.9804 SD: 0.43 mmu or: 1.15 ppm  
09:36:27: [4] 375.9802 amu, mean: 375.9804 SD: 0.38 mmu or: 1.00 ppm  
09:36:28:  
09:36:28: Stop requested. Please wait for procedure to finish.  
09:36:28:  
09:36:30: [5] 375.9810 amu, mean: 375.9805 SD: 0.42 mmu or: 1.12 ppm  
09:36:31:  
09:36:32: Peakmatching stopped

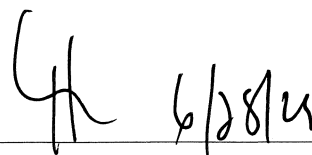
Signature

 6/28/24

## Reports

09:36:46: Peak matching procedure started  
09:36:46:  
09:36:47: Reference mass: 375.98017  
09:36:47: Sample mass: 414.0  
09:36:48:  
09:36:48: Finding reference mass  
09:36:49: Finding sample mass  
09:36:50:  
09:36:55: [1] 413.9771 amu, mean: 413.9771 SD: 0.02 mmu or: 0.04 ppm  
09:36:59: [2] 413.9770 amu, mean: 413.9771 SD: 0.04 mmu or: 0.09 ppm  
09:37:02: [3] 413.9771 amu, mean: 413.9771 SD: 0.04 mmu or: 0.09 ppm  
09:37:05: [4] 413.9762 amu, mean: 413.9769 SD: 0.44 mmu or: 1.06 ppm  
09:37:06:  
09:37:06: Stop requested. Please wait for procedure to finish.  
09:37:06:  
09:37:08: [5] 413.9770 amu, mean: 413.9769 SD: 0.39 mmu or: 0.93 ppm  
09:37:09:  
09:37:10: Peakmatching stopped

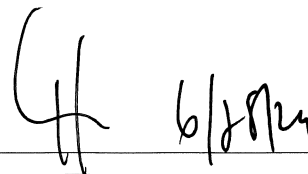
Signature



## Reports

09:37:21: Peak matching procedure started  
09:37:22:  
09:37:22: Reference mass: 413.97698  
09:37:23: Sample mass: 464.0  
09:37:23:  
09:37:24: Finding reference mass  
09:37:25: Finding sample mass  
09:37:25:  
09:37:31: [1] 463.9735 amu, mean: 463.9735  
09:37:34: [2] 463.9738 amu, mean: 463.9737 SD: 0.18 mmu or: 0.39 ppm  
09:37:37: [3] 463.9730 amu, mean: 463.9734 SD: 0.43 mmu or: 0.92 ppm  
09:37:40: [4] 463.9732 amu, mean: 463.9734 SD: 0.36 mmu or: 0.78 ppm  
09:37:40:  
09:37:40: Stop requested. Please wait for procedure to finish.  
09:37:40:  
09:37:43:  
09:37:43: Peakmatching stopped

Signature

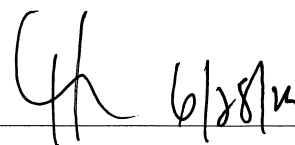




## Reports

09:37:55: Peak matching procedure started  
09:37:56:  
09:37:56: Reference mass: 463.97378  
09:37:57: Sample mass: 502.0  
09:37:57:  
09:37:58: Finding reference mass  
09:37:59: Finding sample mass  
09:37:59:  
09:38:05: [1] 501.9704 amu, mean: 501.9704  
09:38:08: [2] 501.9699 amu, mean: 501.9702 SD: 0.30 mmu or: 0.59 ppm  
09:38:11: [3] 501.9708 amu, mean: 501.9704 SD: 0.42 mmu or: 0.84 ppm  
09:38:14: [4] 501.9712 amu, mean: 501.9706 SD: 0.56 mmu or: 1.11 ppm  
09:38:14:  
09:38:14: Stop requested. Please wait for procedure to finish.  
09:38:14:  
09:38:17:  
09:38:18: Peakmatching stopped

Signature



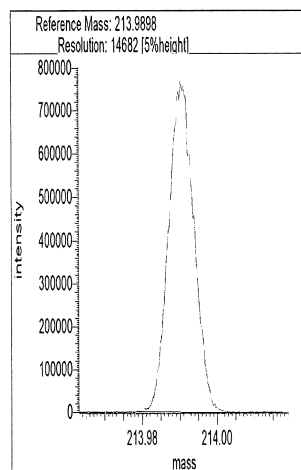
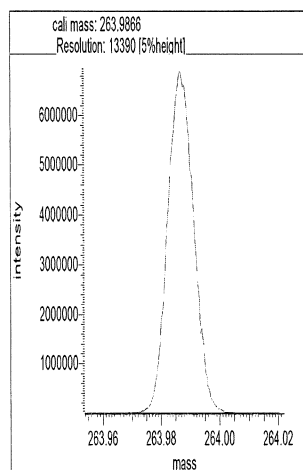
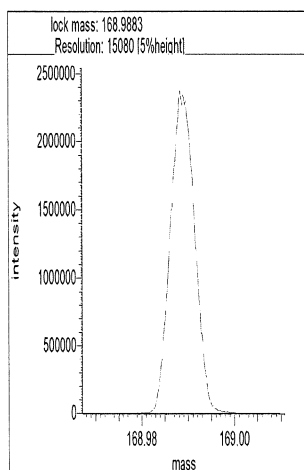
# Resolution Check Report ( DFS SN: 3190 )

Date: 28 Jun 2024 20:57  
MID Experiment: ResCheck\_1668  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43KnxPCB.lua  
Status: RESOLUTION PASSED

*d2240628r2*

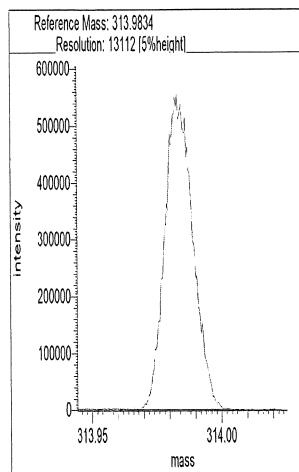
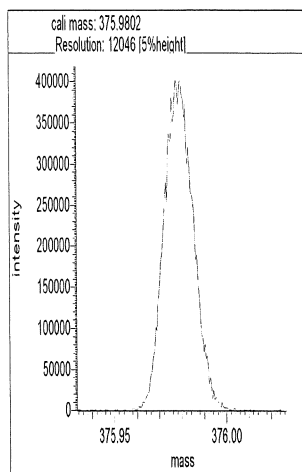
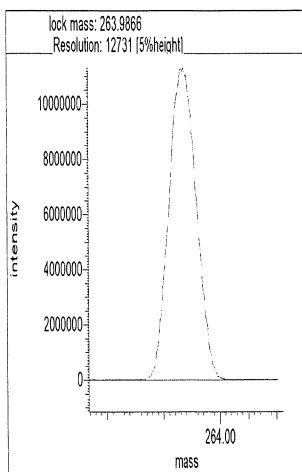
## Segment 1

Lock mass 168.9883 [m/z] Resolution: 15080 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 13390 [5%height]  
Ref. mass 213.9898 [m/z] Resolution: 14682 [5%height]



## Segment 2

Lock mass 263.9866 [m/z] Resolution: 12731 [5%height]  
Cali. mass 375.9802 [m/z] Resolution: 12046 [5%height]  
Ref. mass 313.9834 [m/z] Resolution: 13112 [5%height]

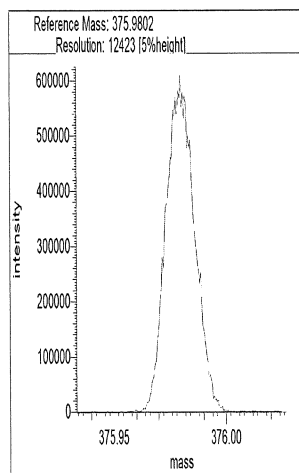
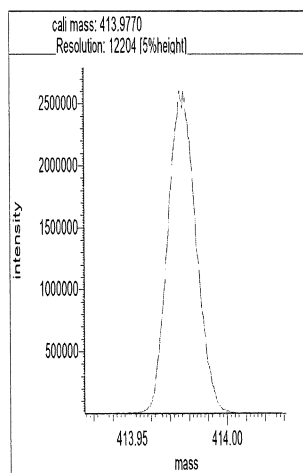
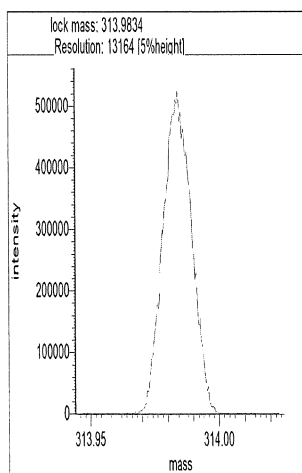


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 13164 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 12204 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 12423 [5%height]

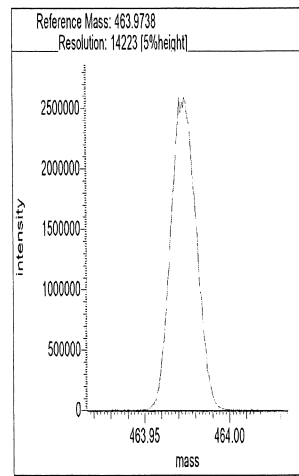
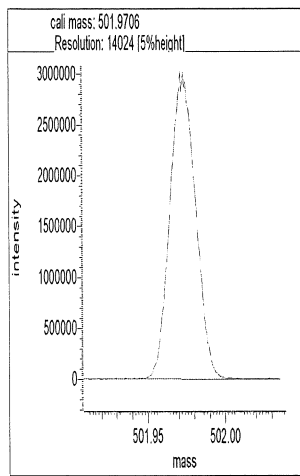
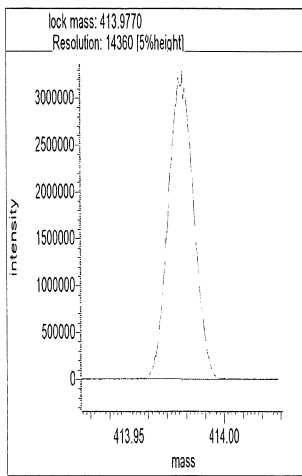


### Segment 4

Lock mass 413.9770 [m/z] Resolution: 14360 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 14024 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 14223 [5%height]



## Reports

21:05:29: Peak matching procedure started  
21:05:30:  
21:05:30: Reference mass: 168.98827  
21:05:31: Sample mass: 214.0  
21:05:31:  
21:05:32: Finding reference mass  
21:05:33: Finding sample mass  
21:05:33:  
21:05:39: [1] 213.9897 amu, mean: 213.9897  
21:05:42: [2] 213.9896 amu, mean: 213.9897 SD: 0.07 mmu or: 0.32 ppm  
21:05:46: [3] 213.9894 amu, mean: 213.9896 SD: 0.16 mmu or: 0.75 ppm  
21:05:49: [4] 213.9891 amu, mean: 213.9895 SD: 0.27 mmu or: 1.26 ppm  
21:05:49:  
21:05:49: Stop requested. Please wait for procedure to finish.  
21:05:49:  
21:05:52:  
21:05:52: Peakmatching stopped

Signature

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## Reports

21:06:08: Peak matching procedure started  
21:06:08:  
21:06:09: Reference mass: 213.98975  
21:06:09: Sample mass: 264.0  
21:06:10:  
21:06:10: Finding reference mass  
21:06:11: Finding sample mass  
21:06:12:  
21:06:18: [1] 263.9858 amu, mean: 263.9858  
21:06:21: [2] 263.9858 amu, mean: 263.9858 SD: 0.07 mmu or: 0.26 ppm  
21:06:24: [3] 263.9859 amu, mean: 263.9858 SD: 0.07 mmu or: 0.25 ppm  
21:06:27: [4] 263.9859 amu, mean: 263.9858 SD: 0.06 mmu or: 0.21 ppm  
21:06:28:  
21:06:28: Stop requested. Please wait for procedure to finish.  
21:06:28:  
21:06:30:  
21:06:31: Peakmatching stopped

Signature

## Reports

21:06:47: Peak matching procedure started  
21:06:48:  
21:06:48: Reference mass: 263.98656  
21:06:49: Sample mass: 314.0  
21:06:49:  
21:06:50: Finding reference mass  
21:06:51: Finding sample mass  
21:06:51:  
21:06:57: [1] 313.9831 amu, mean: 313.9831  
21:07:00: [2] 313.9831 amu, mean: 313.9831 SD: 0.05 mmu or: 0.17 ppm  
21:07:03: [3] 313.9830 amu, mean: 313.9831 SD: 0.08 mmu or: 0.24 ppm  
21:07:07: [4] 313.9828 amu, mean: 313.9830 SD: 0.16 mmu or: 0.51 ppm  
21:07:07:  
21:07:07: Stop requested. Please wait for procedure to finish.  
21:07:07:  
21:07:10:  
21:07:10: Peakmatching stopped

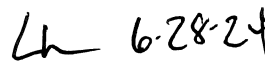
Signature

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## Reports

21:07:28: Peak matching procedure started  
21:07:28:  
21:07:29: Reference mass: 313.98336  
21:07:29: Sample mass: 376.0  
21:07:30:  
21:07:30: Finding reference mass  
21:07:31: Finding sample mass  
21:07:32:  
21:07:37: [1] 375.9799 amu, mean: 375.9799  
21:07:41: [2] 375.9795 amu, mean: 375.9797 SD: 0.27 mmu or: 0.73 ppm  
21:07:44: [3] 375.9795 amu, mean: 375.9796 SD: 0.22 mmu or: 0.58 ppm  
21:07:47: [4] 375.9797 amu, mean: 375.9796 SD: 0.19 mmu or: 0.51 ppm  
21:07:48:  
21:07:48: Stop requested. Please wait for procedure to finish.  
21:07:48:  
21:07:50:  
21:07:51: Peakmatching stopped

Signature

A handwritten signature in black ink, appearing to be 'Lh 6-28-24', written over a horizontal line.



## Reports

```

21:07:28: Peak matching procedure started
21:07:28:
21:07:29: Reference mass: 313.98336
21:07:29: Sample mass: 376.0
21:07:30:
21:07:30: Finding reference mass
21:07:31: Finding sample mass
21:07:32:
21:07:37: [1] 375.9799 amu, mean: 375.9799
21:07:41: [2] 375.9795 amu, mean: 375.9797 SD: 0.27 mmu or: 0.73 ppm
21:07:44: [3] 375.9795 amu, mean: 375.9796 SD: 0.22 mmu or: 0.58 ppm
21:07:47: [4] 375.9797 amu, mean: 375.9796 SD: 0.19 mmu or: 0.51 ppm
21:07:48:
21:07:48: Stop requested. Please wait for procedure to finish.
21:07:48:
21:07:50:
21:07:51: Peakmatching stopped

```


Signature

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## Reports

21:08:10: Peak matching procedure started  
21:08:11:  
21:08:11: Reference mass: 375.98017  
21:08:12: Sample mass: 414.0  
21:08:12:  
21:08:13: Finding reference mass  
21:08:14: Finding sample mass  
21:08:14:  
21:08:20: [1] 413.9763 amu, mean: 413.9763  
21:08:23: [2] 413.9771 amu, mean: 413.9767 SD: 0.58 mmu or: 1.41 ppm  
21:08:26: [3] 413.9765 amu, mean: 413.9766 SD: 0.43 mmu or: 1.03 ppm  
21:08:30: [4] 413.9771 amu, mean: 413.9768 SD: 0.41 mmu or: 0.99 ppm  
21:08:30:  
21:08:30: Stop requested. Please wait for procedure to finish.  
21:08:30:  
21:08:33:  
21:08:33: Peakmatching stopped

Signature

 6-28-24

## Reports

21:08:54: Peak matching procedure started  
21:08:54:  
21:08:55: Reference mass: 413.97698  
21:08:55: Sample mass: 464.0  
21:08:56:  
21:08:56: Finding reference mass  
21:08:57: Finding sample mass  
21:08:58:  
21:09:03: [1] 463.9734 amu, mean: 463.9734  
21:09:07: [2] 463.9737 amu, mean: 463.9735 SD: 0.23 mmu or: 0.50 ppm  
21:09:10: [3] 463.9733 amu, mean: 463.9735 SD: 0.22 mmu or: 0.47 ppm  
21:09:13: [4] 463.9731 amu, mean: 463.9734 SD: 0.24 mmu or: 0.51 ppm  
21:09:13:  
21:09:13: Stop requested. Please wait for procedure to finish.  
21:09:13:  
21:09:16:  
21:09:17: Peakmatching stopped

Signature

 6-28-24

## Reports

21:09:34: Peak matching procedure started  
21:09:34:  
21:09:35: Reference mass: 463.97378  
21:09:35: Sample mass: 502.0  
21:09:36:  
21:09:36: Finding reference mass  
21:09:37: Finding sample mass  
21:09:38:  
21:09:44: [1] 501.9701 amu, mean: 501.9701  
21:09:47: [2] 501.9704 amu, mean: 501.9702 SD: 0.25 mmu or: 0.49 ppm  
21:09:50: [3] 501.9703 amu, mean: 501.9703 SD: 0.18 mmu or: 0.36 ppm  
21:09:53: [4] 501.9699 amu, mean: 501.9702 SD: 0.24 mmu or: 0.48 ppm  
21:09:55:  
21:09:55: Stop requested. Please wait for procedure to finish.  
21:09:55:  
21:09:57: [5] 501.9699 amu, mean: 501.9701 SD: 0.24 mmu or: 0.48 ppm  
21:09:58:  
21:09:59: Peakmatching stopped

Signature

*Lh 6-28-24*

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Lims ID: WDMCCV  
Client ID:  
Sample Type: WDMCCV  
Inject. Date: 28-Jun-2024 09:53:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033304-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub2  
  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 14:00:56 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 14:00:56

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					132.3	132.3	0.1256	0.1256		
D PCB-1L	11:40	23179553	3.12	1.6108	96.6	96.6	0.2385	0.2385	96.55	
D PCB-3L	13:49	23031584	3.17	1.5891	97.2	97.2	0.2418	0.2418	97.25	
PCB-1	11:40	12284662	2.94	1.2191	43.5	43.5	0.1171	0.1171	86.94	
PCB-2	13:39	12262280	2.95	1.1805	45.0	45.0	0.1281	0.1281	89.91	
PCB-3	13:50	12338818	2.91	1.2206	43.9	43.9	0.1317	0.1317	87.78	
S Total Dichlorobiphenyls					625.5	625.5	0.0242	0.0242		
D PCB-4L	14:04	9598503	1.60	0.6475	99.5	99.5	0.0599	0.0599	99.46	
* PCB-9L	16:01	14903293	1.61		100.0	100.0				
\$ PCB-8L	16:52	7292978	1.59	1.2066	46.7	46.7	0.0398	0.0398	93.49	
D PCB-15L	19:56	16260777	1.62	1.0789	101.1	101.1	0.0359	0.0359	101	
PCB-4	14:05	6312728	1.58	1.2818	51.3	51.3	0.0293	0.0293	103	
PCB-10	14:15	8828372	1.56	1.3149	51.9	51.9	0.0253	0.0253	104	
PCB-9	16:02	9408585	1.60	1.4224	51.2	51.2	0.0233	0.0233	102	
PCB-7	16:12	9287265	1.60	1.4134	50.8	50.8	0.0235	0.0235	102	
PCB-6	16:27	10157121	1.60	1.5421	50.9	50.9	0.0215	0.0215	102	
PCB-5	16:45	8787300	1.62	1.3395	50.7	50.7	0.0248	0.0248	101	
PCB-8	16:52	10547840	1.59	1.5889	51.3	51.3	0.0209	0.0209	103	
PCB-14	18:29	9567329	1.63	1.4025	52.8	52.8	0.0237	0.0237	106	
PCB-11	19:20	9166099	1.60	1.2951	54.7	54.7	0.0256	0.0256	109	
PCB-12	19:38	18704176	1.62	1.3358	108.3	108.3	0.0249	0.0249	108	
PCB-13 (C12)	19:38	18704176	1.62	1.3358	108.3	108.3	0.0249	0.0249	108	
PCB-15	19:57	10796918	1.61	1.2903	51.5	51.5	0.0231	0.0231	103	
S Total Trichlorobiphenyls					1074.6	1074.6	0.2144	0.2144		
D PCB-19L	17:10	5993155	1.06	0.6285	93.6	93.6	0.1677	0.1677	93.62	
* PCB-32L	20:25	10184980	1.12		100.0	100.0				
* PCB-31L	22:39	22232678	1.02		100.0	100.0				
\$ PCB-28L	22:57	11030678	1.02	1.0494	47.3	47.3	0.1030	0.1030	94.56	
D PCB-37L	26:57	19747542	1.01	0.8749	101.5	101.5	0.1236	0.1236	102	
PCB-19	17:11	4031283	1.05	1.2809	52.5	52.5	0.0299	0.0299	105	
PCB-18	18:59	11217244	1.07	1.7652	106.0	106.0	0.0217	0.0217	106	
PCB-30 (C18)	18:59	11217244	1.07	1.7652	106.0	106.0	0.0217	0.0217	106	
PCB-17	19:27	4077640	1.05	1.2430	54.7	54.7	0.0308	0.0308	109	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:40	6030779	1.05	1.8327	54.9	54.9	0.0209	0.0209	110	
PCB-24	19:48	5564590	1.05	1.6777	55.3	55.3	0.0228	0.0228	111	
PCB-16	19:55	3813716	1.04	1.1286	56.4	56.4	0.0339	0.0339	113	
PCB-32	20:25	6005067	1.07	1.8324	54.7	54.7	0.0209	0.0209	109	
PCB-34	21:41	8926957	1.04	1.1277	40.1	40.1	0.3189	0.3189	80.17	
PCB-23	21:49	8608920	1.04	1.0813	40.3	40.3	0.3325	0.3325	80.63	
PCB-26	22:09	17449147	1.02	1.1255	78.5	78.5	0.3195	0.3195	78.51	
PCB-29 (C26)	22:09	17449147	1.02	1.1255	78.5	78.5	0.3195	0.3195	78.51	
PCB-25	22:22	10080516	1.05	1.2728	40.1	40.1	0.2825	0.2825	80.21	
PCB-31	22:41	9060478	1.04	1.1532	39.8	39.8	0.3118	0.3118	79.57	
PCB-20	22:59	18036600	1.03	1.1718	77.9	77.9	0.3069	0.3069	77.94	
PCB-28 (C20)	22:59	18036600	1.03	1.1718	77.9	77.9	0.3069	0.3069	77.94	
PCB-21	23:09	17033067	1.02	1.0746	80.3	80.3	0.3346	0.3346	80.27	M
PCB-33 (C21)	23:09	17033067	1.02	1.0746	80.3	80.3	0.3346	0.3346	80.27	M
PCB-22	23:37	9683936	1.04	1.1932	41.1	41.1	0.3014	0.3014	82.19	
PCB-36	25:10	8689427	1.03	1.1071	39.7	39.7	0.3248	0.3248	79.50	
PCB-39	25:31	9583710	1.03	1.1581	41.9	41.9	0.3105	0.3105	83.81	
PCB-38	26:06	8560281	1.03	1.0843	40.0	40.0	0.3316	0.3316	79.96	
PCB-35	26:34	9113686	1.02	1.1297	40.9	40.9	0.3183	0.3183	81.71	
PCB-37	26:58	8908023	1.00	1.1435	39.4	39.4	0.3145	0.3145	78.90	
S Total Tetrachlorobiphenyls					1900.0	1900.0	0.3123	0.3123		
D PCB-54L	20:14	5935214	0.81	0.5562	104.8	104.8	0.0314	0.0314	105	
* PCB-52L	24:47	14748988	0.79		100.0	100.0				
\$ PCB-79L	32:41	9691680	0.80	1.0018	49.0	49.0	0.3302	0.3302	98.02	
D PCB-81L	33:41	19145492	0.79	1.2470	104.1	104.1	0.3082	0.3082	104	
D PCB-77L	34:16	20331724	0.80	1.3212	104.3	104.3	0.2909	0.2909	104	
PCB-54	20:16	3762907	0.80	1.2733	49.8	49.8	0.0138	0.0138	99.58	
PCB-50	22:25	14563545	0.79	0.8578	86.0	86.0	0.4018	0.4018	86.02	
PCB-53 (C50)	22:25	14563545	0.79	0.8578	86.0	86.0	0.4018	0.4018	86.02	
PCB-45	23:09	14512127	0.78	0.8264	89.0	89.0	0.4170	0.4170	88.96	M
PCB-51 (C45)	23:09	14512127	0.78	0.8264	89.0	89.0	0.4170	0.4170	88.96	M
PCB-46	23:24	6151609	0.79	0.7101	43.9	43.9	0.4854	0.4854	87.78	
PCB-52	24:48	8423313	0.78	0.9194	46.4	46.4	0.3748	0.3748	92.83	
PCB-43	24:56	18339428	0.80	1.0333	89.9	89.9	0.3335	0.3335	89.91	M
PCB-73 (C43)	24:56	18339428	0.80	1.0333	89.9	89.9	0.3335	0.3335	89.91	M
PCB-49	25:14	18560039	0.80	1.0685	88.0	88.0	0.3225	0.3225	88.00	
PCB-69 (C49)	25:14	18560039	0.80	1.0685	88.0	88.0	0.3225	0.3225	88.00	
PCB-48	25:34	7483331	0.78	0.8399	45.1	45.1	0.4103	0.4103	90.28	
PCB-44	25:49	25280366	0.78	0.9731	131.6	131.6	0.3542	0.3542	87.74	
PCB-47 (C44)	25:49	25280366	0.78	0.9731	131.6	131.6	0.3542	0.3542	87.74	
PCB-65 (C44)	25:49	25280366	0.78	0.9731	131.6	131.6	0.3542	0.3542	87.74	
PCB-59	26:07	30158320	0.79	1.1853	128.9	128.9	0.2908	0.2908	85.94	
PCB-62 (C59)	26:07	30158320	0.79	1.1853	128.9	128.9	0.2908	0.2908	85.94	
PCB-75 (C59)	26:07	30158320	0.79	1.1853	128.9	128.9	0.2908	0.2908	85.94	
PCB-42	26:19	7288414	0.77	0.8097	45.6	45.6	0.4257	0.4257	91.21	
PCB-40	26:49	23275452	0.79	0.8863	133.0	133.0	0.3888	0.3888	88.69	M
PCB-41 (C40)	26:49	23275452	0.79	0.8863	133.0	133.0	0.3888	0.3888	88.69	M
PCB-71 (C40)	26:49	23275452	0.79	0.8863	133.0	133.0	0.3888	0.3888	88.69	M
PCB-64	27:02	10049669	0.78	1.1776	43.2	43.2	0.2927	0.2927	86.47	
PCB-72	27:51	9871228	0.78	1.0943	45.7	45.7	0.3150	0.3150	91.40	
PCB-68	28:09	11429296	0.79	1.2533	46.2	46.2	0.2750	0.2750	92.40	
PCB-57	28:34	10115140	0.79	1.0818	47.4	47.4	0.3186	0.3186	94.74	
PCB-58	28:49	12614118	0.80	1.3253	48.2	48.2	0.2600	0.2600	96.44	
PCB-67	28:58	12498562	0.80	1.4230	44.5	44.5	0.2422	0.2422	88.99	
PCB-63	29:14	9989668	0.78	1.1240	45.0	45.0	0.3066	0.3066	90.06	
PCB-61	29:35	44322030	0.78	1.2612	178.0	178.0	0.2733	0.2733	89.02	
PCB-70 (C61)	29:35	44322030	0.78	1.2612	178.0	178.0	0.2733	0.2733	89.02	
PCB-74 (C61)	29:35	44322030	0.78	1.2612	178.0	178.0	0.2733	0.2733	89.02	
PCB-76 (C61)	29:35	44322030	0.78	1.2612	178.0	178.0	0.2733	0.2733	89.02	
PCB-66	29:54	11750971	0.80	1.2583	47.3	47.3	0.2739	0.2739	94.63	
PCB-55	30:04	12616176	0.79	1.3236	48.3	48.3	0.2604	0.2604	96.58	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:35	11842676	0.79	1.2334	48.6	48.6	0.2794	0.2794	97.29	
PCB-60	30:47	10346332	0.81	1.1230	46.7	46.7	0.3069	0.3069	93.35	
PCB-80	31:11	12479968	0.79	1.3243	47.7	47.7	0.2603	0.2603	95.49	
PCB-79	32:43	12546137	0.76	1.4368	44.2	44.2	0.2399	0.2399	88.47	
PCB-78	33:16	10686426	0.78	1.1618	46.6	46.6	0.2966	0.2966	93.20	
PCB-81	33:43	9770274	0.78	1.0802	47.2	47.2	0.3236	0.3236	94.49	
PCB-77	34:16	10507849	0.77	1.0836	47.7	47.7	0.3137	0.3137	95.39	
S Total Pentachlorobiphenyls					2310.6	2310.6	0.1719	0.1719		
D PCB-104L	25:43	12190281	1.61	1.2161	98.1	98.1	0.0193	0.0193	98.08	
\$ PCB-95L	28:41	4421818	1.63	0.7218	50.3	50.3	0.0249	0.0249	101	
* PCB-101L	31:37	10220914	1.61		100.0	100.0				
\$ PCB-111L	34:17	6631395	1.60	1.3699	47.4	47.4	0.0172	0.0172	94.72	
D PCB-123L	36:15	16379556	1.52	0.9731	97.4	97.4	0.8752	0.8752	97.38	
D PCB-118L	36:34	17607993	1.54	1.0102	100.8	100.8	0.8432	0.8432	101	
D PCB-114L	37:06	17617558	1.54	0.9949	102.5	102.5	0.8561	0.8561	102	
D PCB-105L	37:46	17024743	1.55	0.9514	103.5	103.5	0.8952	0.8952	104	
* PCB-127L	39:13	17284735	1.55		100.0	100.0				
D PCB-126L	40:50	16590595	1.52	0.9439	101.7	101.7	0.9024	0.9024	102	
PCB-104	25:45	6458431	1.56	1.0087	52.5	52.5	0.0328	0.0328	105	
PCB-96	26:08	6654487	1.58	1.0940	49.9	49.9	0.0302	0.0302	99.80	
PCB-103	28:02	5627044	1.56	0.8741	52.8	52.8	0.0378	0.0378	106	
PCB-94	28:16	4741298	1.56	0.7640	50.9	50.9	0.0433	0.0433	102	
PCB-95	28:43	5323386	1.61	0.8033	54.4	54.4	0.0411	0.0411	109	
PCB-93	28:55	10703695	1.58	0.8429	104.2	104.2	0.0392	0.0392	104	
PCB-100 (C93)	28:55	10703695	1.58	0.8429	104.2	104.2	0.0392	0.0392	104	
PCB-98	29:04	10515836	1.66	0.8262	104.4	104.4	0.0400	0.0400	104	
PCB-102 (C98)	29:04	10515836	1.66	0.8262	104.4	104.4	0.0400	0.0400	104	
PCB-88	29:34	10315095	1.59	0.8013	105.6	105.6	0.0412	0.0412	106	
PCB-91 (C88)	29:34	10315095	1.59	0.8013	105.6	105.6	0.0412	0.0412	106	
PCB-84	29:49	4701698	1.61	0.7299	52.8	52.8	0.0453	0.0453	106	
PCB-89	30:17	5018566	1.57	0.7798	52.8	52.8	0.0424	0.0424	106	
PCB-121	30:40	8446955	1.60	1.2964	53.4	53.4	0.0255	0.0255	107	
PCB-92	31:03	5637765	1.56	0.8546	54.1	54.1	0.0387	0.0387	108	
PCB-90	31:38	18506894	1.59	0.9550	159.0	159.0	0.0346	0.0346	106	
PCB-101 (C90)	31:38	18506894	1.59	0.9550	159.0	159.0	0.0346	0.0346	106	
PCB-113 (C90)	31:38	18506894	1.59	0.9550	159.0	159.0	0.0346	0.0346	106	
PCB-83	32:13	11017623	1.61	0.8385	107.8	107.8	0.0394	0.0394	108	
PCB-99 (C83)	32:13	11017623	1.61	0.8385	107.8	107.8	0.0394	0.0394	108	
PCB-112	32:20	9148092	1.59	1.4111	53.2	53.2	0.0234	0.0234	106	
PCB-86	32:42	39963159	1.57	1.0473	313.0	313.0	0.0316	0.0316	104	M
PCB-87 (C86)	32:42	39963159	1.57	1.0473	313.0	313.0	0.0316	0.0316	104	M
PCB-97 (C86)	32:42	39963159	1.57	1.0473	313.0	313.0	0.0316	0.0316	104	M
PCB-109 (C86)	32:42	39963159	1.57	1.0473	313.0	313.0	0.0316	0.0316	104	M
PCB-119 (C86)	32:42	39963159	1.57	1.0473	313.0	313.0	0.0316	0.0316	104	M
PCB-125 (C86)	32:42	39963159	1.57	1.0473	313.0	313.0	0.0316	0.0316	104	M
PCB-85	33:26	20327245	1.58	1.0408	160.2	160.2	0.0318	0.0318	107	
PCB-116 (C85)	33:26	20327245	1.58	1.0408	160.2	160.2	0.0318	0.0318	107	
PCB-117 (C85)	33:26	20327245	1.58	1.0408	160.2	160.2	0.0318	0.0318	107	
PCB-110	33:38	15540683	1.58	1.1919	107.0	107.0	0.0277	0.0277	107	
PCB-115 (C110)	33:38	15540683	1.58	1.1919	107.0	107.0	0.0277	0.0277	107	
PCB-82	33:56	5666959	1.57	0.8303	56.0	56.0	0.0398	0.0398	112	
PCB-111	34:19	8045954	1.59	1.2125	54.4	54.4	0.0273	0.0273	109	
PCB-120	34:46	9714473	1.59	1.4762	54.0	54.0	0.0224	0.0224	108	
PCB-108	35:55	15346551	1.51	1.1405	78.9	78.9	0.4479	0.4479	78.95	
PCB-124 (C108)	35:55	15346551	1.51	1.1405	78.9	78.9	0.4479	0.4479	78.95	
PCB-107	36:10	8395418	1.46	1.2121	40.6	40.6	0.4215	0.4215	81.28	
PCB-123	36:16	7531274	1.51	1.0722	42.9	42.9	0.4806	0.4806	85.76	
PCB-106	36:23	7495655	1.50	1.0839	40.6	40.6	0.4713	0.4713	81.15	
PCB-118	36:36	8747735	1.56	1.2055	41.2	41.2	0.4154	0.4154	82.42	
PCB-122	36:57	7138256	1.49	0.9567	43.8	43.8	0.5340	0.5340	87.55	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:07	8048025	1.47	1.0842	42.1	42.1	0.4535	0.4535	84.27	
PCB-105	37:47	8495289	1.46	1.1879	42.0	42.0	0.4326	0.4326	84.01	
PCB-127	39:14	8224400	1.48	1.1394	42.4	42.4	0.4484	0.4484	84.70	
PCB-126	40:52	7950299	1.50	1.0976	43.7	43.7	0.4871	0.4871	87.32	
S Total Hexachlorobiphenyls					2034.4	2034.4	0.1763	0.1763		
D PCB-155L	31:22	10525551	1.27	1.0851	94.9	94.9	0.0223	0.0223	94.90	
\$ PCB-153L	38:26	7231505	1.28	0.9169	44.2	44.2	0.6209	0.6209	88.42	
* PCB-138L	39:42	14172952	1.28		100.0	100.0				
D PCB-167L	42:41	18022148	1.28	1.2572	101.1	101.1	0.4697	0.4697	101	
D PCB-156L	43:51	35396234	1.27	1.2106	206.3	206.3	0.4878	0.4878	103	
D PCB-157L (C156L)	43:51	35396234	1.27	1.2106	206.3	206.3	0.4878	0.4878	103	
D PCB-169L	47:04	17941165	1.28	1.2439	101.8	101.8	0.4748	0.4748	102	
PCB-155	31:23	5077210	1.26	0.9444	51.1	51.1	0.0119	0.0119	102	
PCB-152	31:37	5236390	1.27	0.9895	50.3	50.3	0.0114	0.0114	101	
PCB-150	31:46	5572079	1.27	1.0132	52.2	52.2	0.0111	0.0111	104	
PCB-136	32:09	5466251	1.29	1.0116	51.3	51.3	0.0111	0.0111	103	
PCB-145	32:26	5317083	1.27	0.9685	52.2	52.2	0.0116	0.0116	104	
PCB-148	33:56	4217770	1.28	0.7603	52.7	52.7	0.0148	0.0148	105	
PCB-135	34:32	8212420	1.24	0.7256	107.5	107.5	0.0155	0.0155	108	M
PCB-151 (C135)	34:32	8212420	1.24	0.7256	107.5	107.5	0.0155	0.0155	108	M
PCB-154	34:46	4576767	1.28	0.8129	53.5	53.5	0.0138	0.0138	107	
PCB-144	35:05	4435669	1.28	0.7852	53.7	53.7	0.0143	0.0143	107	
PCB-147	35:28	15975867	1.24	0.8950	100.1	100.1	0.2539	0.2539	100	
PCB-149 (C147)	35:28	15975867	1.24	0.8950	100.1	100.1	0.2539	0.2539	100	
PCB-134	35:46	13226062	1.24	0.7967	93.1	93.1	0.2853	0.2853	93.06	
PCB-143 (C134)	35:46	13226062	1.24	0.7967	93.1	93.1	0.2853	0.2853	93.06	
PCB-139	36:02	14201746	1.24	0.8769	90.8	90.8	0.2592	0.2592	90.79	
PCB-140 (C139)	36:02	14201746	1.24	0.8769	90.8	90.8	0.2592	0.2592	90.79	
PCB-131	36:16	6183083	1.24	0.7503	46.2	46.2	0.3029	0.3029	92.39	
PCB-142	36:24	6339672	1.22	0.7507	47.3	47.3	0.3027	0.3027	94.67	
PCB-132	36:43	6081079	1.23	0.7489	45.5	45.5	0.3034	0.3034	91.03	
PCB-133	37:13	6762464	1.22	0.8096	46.8	46.8	0.2807	0.2807	93.65	
PCB-165	37:36	8766404	1.25	1.0247	48.0	48.0	0.2218	0.2218	95.91	
PCB-146	37:51	8409798	1.24	0.9637	48.9	48.9	0.2358	0.2358	97.83	
PCB-161	37:59	9234076	1.24	1.1288	45.9	45.9	0.2013	0.2013	91.71	
PCB-153	38:29	18360706	1.23	1.0938	94.1	94.1	0.2078	0.2078	94.10	
PCB-168 (C153)	38:29	18360706	1.23	1.0938	94.1	94.1	0.2078	0.2078	94.10	
PCB-141	38:40	7323000	1.24	0.8755	46.9	46.9	0.2596	0.2596	93.77	
PCB-130	39:05	5988095	1.22	0.7051	47.6	47.6	0.3223	0.3223	95.21	
PCB-137	39:17	6749675	1.23	0.7767	48.7	48.7	0.2926	0.2926	97.43	
PCB-164	39:25	8938518	1.23	1.0382	48.3	48.3	0.2189	0.2189	96.52	
PCB-129	39:43	31883225	1.23	0.9464	188.8	188.8	0.2401	0.2401	94.42	M
PCB-138 (C129)	39:43	31883225	1.23	0.9464	188.8	188.8	0.2401	0.2401	94.42	M
PCB-160 (C129)	39:43	31883225	1.23	0.9464	188.8	188.8	0.2401	0.2401	94.42	M
PCB-163 (C129)	39:43	31883225	1.23	0.9464	188.8	188.8	0.2401	0.2401	94.42	M
PCB-158	40:06	10678715	1.23	1.3110	45.7	45.7	0.1733	0.1733	91.31	
PCB-128	40:57	16452138	1.23	0.9829	93.8	93.8	0.2312	0.2312	93.82	
PCB-166 (C128)	40:57	16452138	1.23	0.9829	93.8	93.8	0.2312	0.2312	93.82	
PCB-159	41:57	11464423	1.21	1.3856	46.4	46.4	0.1640	0.1640	92.76	
PCB-162	42:15	10581064	1.23	1.2571	47.2	47.2	0.1808	0.1808	94.36	
PCB-167	42:42	9525819	1.23	1.1159	47.4	47.4	0.1659	0.1659	94.73	
PCB-156	43:52	18689531	1.23	1.1104	95.1	95.1	0.2566	0.2566	95.10	
PCB-157 (C156)	43:52	18689531	1.23	1.1104	95.1	95.1	0.2566	0.2566	95.10	
PCB-169	47:05	9914953	1.25	1.1628	47.5	47.5	0.1661	0.1661	95.05	
S Total Heptachlorobiphenyls					1242.1	1242.1	0.0228	0.0228		
D PCB-188L	37:06	13670051	1.07	1.3133	96.4	96.4	0.0190	0.0190	96.39	
\$ PCB-178L	40:08	5046546	1.07	1.0313	45.3	45.3	0.0243	0.0243	90.62	
* PCB-180L	45:14	10799083	1.08		100.0	100.0				
D PCB-170L	46:29	9190419	1.08	0.8362	101.8	101.8	0.0299	0.0299	102	
D PCB-189L	49:35	16138938	1.01	1.4414	79.9	79.9	0.3073	0.3073	79.92	



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-188	37:07	7943388	1.07	1.1350	51.2	51.2	0.0155	0.0155	102	
PCB-179	37:28	8167554	1.05	1.4276	50.1	50.1	0.0150	0.0150	100	
PCB-184	37:58	7801945	1.06	1.3672	49.9	49.9	0.0157	0.0157	99.85	
PCB-176	38:20	7133492	1.04	1.2331	50.6	50.6	0.0174	0.0174	101	
PCB-186	38:48	8730710	1.04	1.4737	51.8	51.8	0.0145	0.0145	104	
PCB-178	40:10	5330305	1.05	0.8946	52.1	52.1	0.0239	0.0239	104	
PCB-175	40:48	5726061	1.06	0.9524	52.6	52.6	0.0225	0.0225	105	
PCB-187	41:04	6595300	1.05	1.1018	52.4	52.4	0.0194	0.0194	105	
PCB-182	41:16	5767749	1.06	0.9247	54.6	54.6	0.0231	0.0231	109	
PCB-183	41:41	11294728	1.09	0.9825	100.6	100.6	0.0218	0.0218	101	M
PCB-185 (C183)	41:41	11294728	1.09	0.9825	100.6	100.6	0.0218	0.0218	101	M
PCB-174	41:56	5907364	1.07	0.9642	53.6	53.6	0.0222	0.0222	107	
PCB-177	42:22	5950862	1.06	0.9773	53.3	53.3	0.0219	0.0219	107	
PCB-181	42:44	5662008	1.05	0.9505	52.1	52.1	0.0225	0.0225	104	
PCB-171	42:58	10726406	1.05	0.9336	100.5	100.5	0.0229	0.0229	101	
PCB-173 (C171)	42:58	10726406	1.05	0.9336	100.5	100.5	0.0229	0.0229	101	
PCB-172	44:36	5164526	1.05	0.8519	53.0	53.0	0.0251	0.0251	106	
PCB-192	44:52	8528248	1.05	1.3459	55.4	55.4	0.0159	0.0159	111	
PCB-180	45:13	14173479	1.06	1.1676	106.2	106.2	0.0183	0.0183	106	
PCB-193 (C180)	45:13	14173479	1.06	1.1676	106.2	106.2	0.0183	0.0183	106	
PCB-191	45:36	8025200	1.07	1.2891	54.5	54.5	0.0166	0.0166	109	
PCB-170	46:31	5373410	1.06	1.1865	49.3	49.3	0.0231	0.0231	98.55	
PCB-190	47:01	8083751	1.04	1.3322	53.1	53.1	0.0161	0.0161	106	
PCB-189	49:37	7033830	1.03	0.9633	45.2	45.2	0.0845	0.0845	90.48	
S Total Octachlorobiphenyls					612.1	612.1	0.1088	0.1088		
D PCB-202L	42:27	9935271	0.92	0.9818	93.7	93.7	0.0433	0.0433	93.71	
* PCB-194L	51:42	14009623	0.91		100.0	100.0				
D PCB-205L	52:10	16719302	0.89	1.1786	101.3	101.3	0.0704	0.0704	101	
PCB-202	42:29	5452682	0.91	1.0359	53.0	53.0	0.0481	0.0481	106	
PCB-201	43:24	5142010	0.92	0.9754	53.1	53.1	0.0511	0.0511	106	
PCB-204	44:03	5372763	0.90	1.0485	51.6	51.6	0.0475	0.0475	103	
PCB-197	44:18	5585848	0.91	1.1458	49.1	49.1	0.0435	0.0435	98.14	
PCB-200	44:25	5525098	0.91	1.0072	55.2	55.2	0.0495	0.0495	110	
PCB-198	47:10	9060814	0.92	0.8698	104.9	104.9	0.0573	0.0573	105	
PCB-199 (C198)	47:10	9060814	0.92	0.8698	104.9	104.9	0.0573	0.0573	105	
PCB-196	47:51	3941994	0.93	0.7806	50.8	50.8	0.0638	0.0638	102	
PCB-203	48:03	4886648	0.91	0.9292	52.9	52.9	0.0536	0.0536	106	
PCB-195	49:23	6841405	0.89	0.8263	49.5	49.5	0.3001	0.3001	99.04	
PCB-194	51:43	7448849	0.87	0.9735	45.8	45.8	0.2547	0.2547	91.53	
PCB-205	52:11	8417905	0.89	1.0878	46.3	46.3	0.2280	0.2280	92.57	
S Total Nonachlorobiphenyls					145.4	145.4	0.1090	0.1090		
D PCB-208L	49:07	15297328	0.80	0.9576	114.0	114.0	0.1182	0.1182	114	
D PCB-206L	53:54	10371371	0.81	0.6947	106.6	106.6	0.1629	0.1629	107	
PCB-208	49:08	8622337	0.78	1.1374	49.6	49.6	0.0982	0.0982	99.11	
PCB-207	50:03	8590600	0.79	1.3756	48.7	48.7	0.0988	0.0988	97.32	
PCB-206	53:56	6531736	0.77	1.3346	47.2	47.2	0.1300	0.1300	94.38	
D PCB-209L	55:32	10210295	0.73	0.6669	109.3	109.3	0.0400	0.0400	109	
DCB Decachlorobiphenyl	55:33	5757655	0.71	1.1004	51.2	51.2	0.0347	0.0347	102	
S Polychlorinated biphenyls, Total					9996.0	9996.0	0.1305	0.1305		

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

61CV1668CS3\_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Lims ID: WDMCCV  
Client ID:  
Sample Type: WDMCCV  
Inject. Date: 28-Jun-2024 09:53:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033304-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub2  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 14:00:56 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 14:00:56

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:40	11:40	0	0.728	17560172	6743071	3893	9732	1732		
202.0766	11:40	11:40	-1	0.728	5619381	2081341	2797	6992	744	3.12(2.66-3.60)	
PCB-3L											
200.0795	13:49	13:49	0	0.862	17514647	5973993	3893	9732	1535		
202.0766	13:49	13:49	0	0.862	5516937	1861834	2797	6992	666	3.17(2.66-3.60)	
PCB-1											
188.0393	11:40	11:40	0	1.000	9166571	3548806	3733	9332	951		
190.0363	11:40	11:40	0	1.000	3118091	1219887	1306	3265	934	2.94(2.66-3.60)	
PCB-2											
188.0393	13:39	13:39	0	0.988	9156566	3055646	3733	9332	819		
190.0363	13:39	13:39	0	0.988	3105714	1049974	1306	3265	804	2.95(2.66-3.60)	
PCB-3											
188.0393	13:50	13:50	0	1.001	9181210	3057267	3733	9332	819		
190.0363	13:50	13:50	0	1.001	3157608	1047296	1306	3265	802	2.91(2.66-3.60)	
PCB-4L											
234.0406	14:04	14:04	0	0.878	5910573	1908620	499	1247	3825		
236.0376	14:04	14:04	0	0.878	3687930	1192262	176	440	6774	1.60(1.33-1.79)	
PCB-9L											
234.0406	16:01	16:01	0		9201871	2701379	499	1247	5414		
236.0376	16:01	16:01	0		5701422	1651524	176	440	9384	1.61(1.33-1.79)	
PCB-8L											
234.0406	16:52	16:52	0	1.199	4479715	1228676	499	1247	2462		
236.0376	16:52	16:52	0	1.199	2813263	790015	176	440	4489	1.59(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:56	19:56	0	1.245	10047045	2408514	499	1247	4827		
236.0376	19:56	19:56	0	1.245	6213732	1507652	176	440	8566	1.62(1.33-1.79)	
PCB-4											
222.0003	14:05	14:05	0	1.002	3865027	1236911	176	440	7028		
223.9974	14:05	14:05	-1	1.001	2447701	783648	290	725	2702	1.58(1.33-1.79)	
PCB-10											
222.0003	14:15	14:15	0	1.013	5379532	1746507	176	440	9923		
223.9974	14:15	14:15	0	1.013	3448840	1120780	290	725	3865	1.56(1.33-1.79)	
PCB-9											
222.0003	16:02	16:02	0	1.140	5793955	1697499	176	440	9645		
223.9974	16:02	16:02	0	1.140	3614630	1069519	290	725	3688	1.60(1.33-1.79)	
PCB-7											
222.0003	16:12	16:12	0	1.152	5710671	1623801	176	440	9226		
223.9974	16:12	16:12	0	1.152	3576594	1018701	290	725	3513	1.60(1.33-1.79)	
PCB-6											
222.0003	16:27	16:27	0	1.170	6249909	1726335	176	440	9809		
223.9974	16:27	16:27	0	1.170	3907212	1081555	290	725	3730	1.60(1.33-1.79)	
PCB-5											
222.0003	16:45	16:45	0	1.192	5427261	1537622	176	440	8736		
223.9974	16:45	16:45	0	1.192	3360039	950043	290	725	3276	1.62(1.33-1.79)	
PCB-8											
222.0003	16:52	16:52	0	1.200	6468149	1747554	176	440	9929		
223.9974	16:52	16:52	0	1.200	4079691	1105988	290	725	3814	1.59(1.33-1.79)	
PCB-14											
222.0003	18:29	18:29	0	0.927	5930866	1492541	176	440	8480		
223.9974	18:29	18:29	0	0.927	3636463	938828	290	725	3237	1.63(1.33-1.79)	
PCB-11											
222.0003	19:20	19:20	0	0.970	5641377	1367634	176	440	7771		
223.9974	19:20	19:20	0	0.970	3524722	858922	290	725	2962	1.60(1.33-1.79)	
PCB-12											
222.0003	19:38	19:38	0	0.985	11553570	1930998	176	440	10972		
223.9974	19:38	19:38	0	0.985	7150606	1194424	290	725	4119	1.62(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:38	19:38	0	0.985	11553570	1930998	176	440	10972		
223.9974	19:38	19:38	0	0.985	7150606	1194424	290	725	4119	1.62(1.33-1.79)	
PCB-15											
222.0003	19:57	19:57	0	1.001	6653087	1534224	176	440	8717		
223.9974	19:57	19:57	0	1.001	4143831	961339	290	725	3315	1.61(1.33-1.79)	
PCB-19L											
268.0016	17:10	17:10	0	0.841	3088702	852441	690	1725	1235		
269.9986	17:10	17:10	0	0.841	2904453	797923	352	880	2267	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:25	20:25	0		5388706	1301740	690	1725	1887		
269.9986	20:25	20:25	0		4796274	1169588	352	880	3323	1.12(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:39	22:39	0		11224982	2597783	995	2487	2611		
269.9986	22:39	22:39	0		11007696	2525790	1221	3052	2069	1.02(0.88-1.20)	
PCB-28L											
268.0016	22:57	22:57	0	1.013	5578979	1271827	995	2487	1278		
269.9986	22:57	22:57	0	1.013	5451699	1245309	1221	3052	1020	1.02(0.88-1.20)	
PCB-37L											
268.0016	26:57	26:57	0	1.190	9930264	2033673	995	2487	2044		
269.9986	26:57	26:57	0	1.190	9817278	2000093	1221	3052	1638	1.01(0.88-1.20)	
PCB-19											
255.9613	17:11	17:11	0	1.002	2064988	557803	147	367	3795		
257.9584	17:11	17:11	0	1.002	1966295	539194	106	265	5087	1.05(0.88-1.20)	
PCB-18											
255.9613	18:59	18:59	0	1.106	5789385	984414	147	367	6697		
257.9584	18:59	18:59	0	1.106	5427859	926859	106	265	8744	1.07(0.88-1.20)	
PCB-30 (C18)											
255.9613	18:59	18:59	0	1.106	5789385	984414	147	367	6697		
257.9584	18:59	18:59	0	1.106	5427859	926859	106	265	8744	1.07(0.88-1.20)	
PCB-17											
255.9613	19:27	19:27	0	1.133	2091724	538515	147	367	3663		
257.9584	19:27	19:27	0	1.133	1985916	512525	106	265	4835	1.05(0.88-1.20)	
PCB-27											
255.9613	19:40	19:40	0	1.146	3093856	797754	147	367	5427		
257.9584	19:40	19:40	0	1.146	2936923	775040	106	265	7312	1.05(0.88-1.20)	
PCB-24											
255.9613	19:48	19:48	0	1.153	2850967	717435	147	367	4881		
257.9584	19:48	19:48	0	1.153	2713623	684645	106	265	6459	1.05(0.88-1.20)	
PCB-16											
255.9613	19:55	19:55	0	1.161	1944100	468928	147	367	3190		
257.9584	19:55	19:55	-1	1.160	1869616	433722	106	265	4092	1.04(0.88-1.20)	
PCB-32											
255.9613	20:25	20:25	0	1.190	3098468	775402	147	367	5275		
257.9584	20:25	20:25	0	1.190	2906599	726379	106	265	6853	1.07(0.88-1.20)	
PCB-34											
255.9613	21:41	21:41	0	1.263	4556119	1105126	3014	7535	367		
257.9584	21:41	21:41	0	1.263	4370838	1059798	2788	6970	380	1.04(0.88-1.20)	
PCB-23											
255.9613	21:49	21:49	0	1.272	4391651	1037666	3014	7535	344		
257.9584	21:49	21:49	0	1.272	4217269	1020283	2788	6970	366	1.04(0.88-1.20)	
PCB-26											
255.9613	22:09	22:09	0	1.290	8800521	1924884	3014	7535	639		
257.9584	22:09	22:09	0	1.290	8648626	1896083	2788	6970	680	1.02(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:09	22:09	0	1.290	8800521	1924884	3014	7535	639		
257.9584	22:09	22:09	0	1.290	8648626	1896083	2788	6970	680	1.02(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:22	22:22	0	0.830	5166527	1151735	3014	7535	382		
257.9584	22:22	22:22	0	0.830	4913989	1084805	2788	6970	389	1.05(0.88-1.20)	
PCB-31											
255.9613	22:41	22:41	0	0.841	4625856	1069988	3014	7535	355		
257.9584	22:41	22:41	0	0.841	4434622	1029598	2788	6970	369	1.04(0.88-1.20)	
PCB-20											
255.9613	22:59	22:59	0	0.853	9140959	1599408	3014	7535	531		
257.9584	22:59	22:59	0	0.853	8895641	1580935	2788	6970	567	1.03(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:59	22:59	0	0.853	9140959	1599408	3014	7535	531		
257.9584	22:59	22:59	0	0.853	8895641	1580935	2788	6970	567	1.03(0.88-1.20)	
PCB-21											
255.9613	23:09	23:09	0	0.859	8617433	1043751	3014	7535	346		M
257.9584	23:09	23:09	0	0.859	8415634	1013831	2788	6970	364	1.02(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:09	23:09	0	0.859	8617433	1043751	3014	7535	346		M
257.9584	23:09	23:09	0	0.859	8415634	1013831	2788	6970	364	1.02(0.88-1.20)	M
PCB-22											
255.9613	23:37	23:37	0	0.876	4945442	1089550	3014	7535	361		
257.9584	23:37	23:37	0	0.876	4738494	1072983	2788	6970	385	1.04(0.88-1.20)	
PCB-36											
255.9613	25:10	25:10	0	0.934	4407626	936887	3014	7535	311		
257.9584	25:10	25:10	0	0.934	4281801	895527	2788	6970	321	1.03(0.88-1.20)	
PCB-39											
255.9613	25:31	25:31	0	0.947	4858094	1058390	3014	7535	351		
257.9584	25:31	25:31	0	0.947	4725616	1004009	2788	6970	360	1.03(0.88-1.20)	
PCB-38											
255.9613	26:06	26:06	0	0.968	4347251	943338	3014	7535	313		
257.9584	26:06	26:06	0	0.968	4213030	918773	2788	6970	330	1.03(0.88-1.20)	
PCB-35											
255.9613	26:34	26:34	0	0.986	4603489	947411	3014	7535	314		
257.9584	26:34	26:34	0	0.986	4510197	943113	2788	6970	338	1.02(0.88-1.20)	
PCB-37											
255.9613	26:58	26:58	0	1.001	4458208	896864	3014	7535	298		
257.9584	26:58	26:58	0	1.001	4449815	892650	2788	6970	320	1.00(0.88-1.20)	
PCB-54L											
301.9626	20:14	20:14	0	0.816	2665072	673492	95	237	7089		
303.9597	20:14	20:14	0	0.816	3270142	819389	78	195	10505	0.81(0.65-0.89)	
PCB-52L											
301.9626	24:47	24:47	0		6489887	1462410	2108	5270	694		
303.9597	24:47	24:47	0		8259101	1849471	2983	7457	620	0.79(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.970	4294978	868712	2108	5270	412		
303.9597	32:41	32:41	0	0.970	5396702	1097420	2983	7457	368	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:41	33:41	0	1.359	8471538	1679690	2108	5270	797		
303.9597	33:41	33:41	0	1.359	10673954	2114287	2983	7457	709	0.79(0.65-0.89)	
PCB-77L											
301.9626	34:16	34:16	0	1.382	9065317	1734397	2108	5270	823		
303.9597	34:16	34:16	0	1.382	11266407	2166544	2983	7457	726	0.80(0.65-0.89)	
PCB-54											
289.9224	20:16	20:16	0	1.000	1667808	416720	9	22	46302		
291.9194	20:16	20:16	0	1.000	2095099	520409	96	240	5421	0.80(0.65-0.89)	
PCB-50											
289.9224	22:25	22:25	0	1.108	6430656	1451042	2561	6402	567		
291.9194	22:25	22:25	0	1.108	8132889	1863518	2743	6857	679	0.79(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:25	22:25	0	1.108	6430656	1451042	2561	6402	567		
291.9194	22:25	22:25	0	1.108	8132889	1863518	2743	6857	679	0.79(0.65-0.89)	
PCB-45											
289.9224	23:09	23:09	0	1.144	6355701	860851	2561	6402	336		M
291.9194	23:09	23:09	0	1.144	8156426	1086324	2743	6857	396	0.78(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:09	23:09	0	1.144	6355701	860851	2561	6402	336		M
291.9194	23:09	23:09	0	1.144	8156426	1086324	2743	6857	396	0.78(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:24	0	1.156	2722954	631616	2561	6402	247		
291.9194	23:24	23:24	0	1.156	3428655	811725	2743	6857	296	0.79(0.65-0.89)	
PCB-52											
289.9224	24:48	24:48	0	1.226	3686509	847769	2561	6402	331		
291.9194	24:48	24:48	0	1.226	4736804	1091737	2743	6857	398	0.78(0.65-0.89)	
PCB-43											
289.9224	24:56	24:56	0	1.232	8161844	1103644	2561	6402	431		M
291.9194	24:56	24:56	0	1.232	10177584	1384998	2743	6857	505	0.80(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:56	24:56	0	1.232	8161844	1103644	2561	6402	431		M
291.9194	24:56	24:56	0	1.232	10177584	1384998	2743	6857	505	0.80(0.65-0.89)	M
PCB-49											
289.9224	25:14	25:14	0	1.247	8222599	1188680	2561	6402	464		
291.9194	25:14	25:14	0	1.247	10337440	1511692	2743	6857	551	0.80(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:14	25:14	0	1.247	8222599	1188680	2561	6402	464		
291.9194	25:14	25:14	0	1.247	10337440	1511692	2743	6857	551	0.80(0.65-0.89)	
PCB-48											
289.9224	25:34	25:34	0	1.263	3280369	744810	2561	6402	291		
291.9194	25:34	25:34	0	1.263	4202962	964659	2743	6857	352	0.78(0.65-0.89)	
PCB-44											
289.9224	25:49	25:49	0	1.275	11096797	2132290	2561	6402	833		
291.9194	25:49	25:49	0	1.275	14183569	2728661	2743	6857	995	0.78(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:49	25:49	0	1.275	11096797	2132290	2561	6402	833		
291.9194	25:49	25:49	0	1.275	14183569	2728661	2743	6857	995	0.78(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:49	25:49	0	1.275	11096797	2132290	2561	6402	833		
291.9194	25:49	25:49	0	1.275	14183569	2728661	2743	6857	995	0.78(0.65-0.89)	
PCB-59											
289.9224	26:07	26:07	0	1.291	13277578	1970466	2561	6402	769		
291.9194	26:08	26:07	1	1.291	16880742	2496783	2743	6857	910	0.79(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:07	26:07	0	1.291	13277578	1970466	2561	6402	769		
291.9194	26:08	26:07	1	1.291	16880742	2496783	2743	6857	910	0.79(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:07	26:07	0	1.291	13277578	1970466	2561	6402	769		
291.9194	26:08	26:07	1	1.291	16880742	2496783	2743	6857	910	0.79(0.65-0.89)	
PCB-42											
289.9224	26:19	26:19	0	1.301	3180484	684010	2561	6402	267		
291.9194	26:19	26:19	0	1.301	4107930	893972	2743	6857	326	0.77(0.65-0.89)	
PCB-40											
289.9224	26:49	26:49	0	1.325	10242980	1611417	2561	6402	629		M
291.9194	26:49	26:49	0	1.325	13032472	2065533	2743	6857	753	0.79(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:49	26:49	0	1.325	10242980	1611417	2561	6402	629		M
291.9194	26:49	26:49	0	1.325	13032472	2065533	2743	6857	753	0.79(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:49	26:49	0	1.325	10242980	1611417	2561	6402	629		M
291.9194	26:49	26:49	0	1.325	13032472	2065533	2743	6857	753	0.79(0.65-0.89)	M
PCB-64											
289.9224	27:02	27:02	0	1.336	4406079	961537	2561	6402	375		
291.9194	27:02	27:02	0	1.336	5643590	1247125	2743	6857	455	0.78(0.65-0.89)	
PCB-72											
289.9224	27:51	27:51	0	0.827	4326378	959445	2561	6402	375		
291.9194	27:51	27:51	0	0.827	5544850	1229218	2743	6857	448	0.78(0.65-0.89)	
PCB-68											
289.9224	28:09	28:09	0	0.836	5027689	1032277	2561	6402	403		
291.9194	28:09	28:09	0	0.836	6401607	1317487	2743	6857	480	0.79(0.65-0.89)	
PCB-57											
289.9224	28:34	28:34	0	0.848	4453272	968758	2561	6402	378		
291.9194	28:34	28:34	0	0.848	5661868	1219346	2743	6857	445	0.79(0.65-0.89)	
PCB-58											
289.9224	28:49	28:49	0	0.855	5615802	1155203	2561	6402	451		
291.9194	28:49	28:49	0	0.855	6998316	1459838	2743	6857	532	0.80(0.65-0.89)	
PCB-67											
289.9224	28:58	28:58	0	0.860	5538764	1124923	2561	6402	439		
291.9194	28:58	28:58	0	0.860	6959798	1420875	2743	6857	518	0.80(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:14	29:14	0	0.868	4391315	909508	2561	6402	355		
291.9194	29:14	29:14	0	0.868	5598353	1182681	2743	6857	431	0.78(0.65-0.89)	
PCB-61											
289.9224	29:35	29:35	0	0.878	19417144	2291143	2561	6402	895		
291.9194	29:35	29:35	0	0.878	24904886	2919858	2743	6857	1064	0.78(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:35	29:35	0	0.878	19417144	2291143	2561	6402	895		
291.9194	29:35	29:35	0	0.878	24904886	2919858	2743	6857	1064	0.78(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:35	29:35	0	0.878	19417144	2291143	2561	6402	895		
291.9194	29:35	29:35	0	0.878	24904886	2919858	2743	6857	1064	0.78(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:35	29:35	0	0.878	19417144	2291143	2561	6402	895		
291.9194	29:35	29:35	0	0.878	24904886	2919858	2743	6857	1064	0.78(0.65-0.89)	
PCB-66											
289.9224	29:54	29:54	0	0.888	5220056	1056987	2561	6402	413		
291.9194	29:54	29:54	0	0.888	6530915	1340775	2743	6857	489	0.80(0.65-0.89)	
PCB-55											
289.9224	30:04	30:04	0	0.893	5554605	1135245	2561	6402	443		
291.9194	30:04	30:04	0	0.893	7061571	1449563	2743	6857	528	0.79(0.65-0.89)	
PCB-56											
289.9224	30:35	30:35	0	0.908	5216949	1097630	2561	6402	429		
291.9194	30:35	30:35	0	0.908	6625727	1365688	2743	6857	498	0.79(0.65-0.89)	
PCB-60											
289.9224	30:47	30:47	0	0.914	4620409	946901	2561	6402	370		
291.9194	30:47	30:47	0	0.914	5725923	1198391	2743	6857	437	0.81(0.65-0.89)	
PCB-80											
289.9224	31:11	31:11	0	0.926	5494323	1120546	2561	6402	438		
291.9194	31:11	31:11	0	0.926	6985645	1422666	2743	6857	519	0.79(0.65-0.89)	
PCB-79											
289.9224	32:43	32:43	0	0.971	5404463	1065728	2561	6402	416		
291.9194	32:43	32:43	0	0.971	7141674	1363961	2743	6857	497	0.76(0.65-0.89)	
PCB-78											
289.9224	33:16	33:16	0	0.987	4667392	928407	2561	6402	363		
291.9194	33:16	33:16	0	0.987	6019034	1192724	2743	6857	435	0.78(0.65-0.89)	
PCB-81											
289.9224	33:43	33:43	0	1.001	4274634	817974	2561	6402	319		
291.9194	33:43	33:43	0	1.001	5495640	1062796	2743	6857	387	0.78(0.65-0.89)	
PCB-77											
289.9224	34:16	34:16	0	1.000	4577954	880502	2561	6402	344		
291.9194	34:16	34:16	0	1.000	5929895	1126858	2743	6857	411	0.77(0.65-0.89)	
PCB-104L											
337.9207	25:43	25:43	0	0.814	7520637	1681194	132	330	12736		
339.9178	25:43	25:43	0	0.814	4669644	1042162	64	160	16284	1.61(1.32-1.78)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:41	28:41	0	1.115	2743358	578483	132	330	4382		
339.9178	28:41	28:41	0	1.115	1678460	351205	64	160	5488	1.63(1.32-1.78)	
PCB-101L											
337.9207	31:37	31:37	0		6311347	1295120	132	330	9812		
339.9178	31:37	31:37	0		3909567	789239	64	160	12332	1.61(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	4078043	833224	132	330	6312		
339.9178	34:17	34:17	0	1.085	2553352	525390	64	160	8209	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	0	1.147	9886744	1996196	6649	16622	300		
339.9178	36:15	36:15	0	1.147	6492812	1307728	4920	12300	266	1.52(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:34	0	1.157	10679663	2061435	6649	16622	310		
339.9178	36:34	36:34	0	1.157	6928330	1338255	4920	12300	272	1.54(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:06	0	1.173	10670057	2097231	6649	16622	315		
339.9178	37:06	37:06	0	1.173	6947501	1366009	4920	12300	278	1.54(1.32-1.78)	
PCB-105L											
337.9207	37:46	37:46	0	1.195	10336178	2024014	6649	16622	304		
339.9178	37:46	37:46	0	1.195	6688565	1289160	4920	12300	262	1.55(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:13	0		10494102	2054222	6649	16622	309		
339.9178	39:13	39:13	0		6790633	1341398	4920	12300	273	1.55(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:50	0	1.292	10019628	1923344	6649	16622	289		
339.9178	40:50	40:50	0	1.292	6570967	1261373	4920	12300	256	1.52(1.32-1.78)	
PCB-104											
325.8804	25:45	25:45	0	1.001	3938372	874001	206	515	4243		
327.8775	25:45	25:45	0	1.001	2520059	562385	154	385	3652	1.56(1.32-1.78)	
PCB-96											
325.8804	26:08	26:08	0	1.016	4076294	883944	206	515	4291		
327.8775	26:08	26:08	0	1.016	2578193	572493	154	385	3717	1.58(1.32-1.78)	
PCB-103											
325.8804	28:02	28:02	0	1.090	3428991	740774	206	515	3596		
327.8775	28:02	28:02	0	1.090	2198053	471732	154	385	3063	1.56(1.32-1.78)	
PCB-94											
325.8804	28:16	28:16	0	1.099	2891802	610796	206	515	2965		
327.8775	28:16	28:16	0	1.099	1849496	384270	154	385	2495	1.56(1.32-1.78)	
PCB-95											
325.8804	28:43	28:43	0	1.116	3280995	714317	206	515	3468		
327.8775	28:43	28:43	0	1.116	2042391	440360	154	385	2859	1.61(1.32-1.78)	
PCB-93											
325.8804	28:55	28:55	0	1.124	6556722	1206735	206	515	5858		
327.8775	28:55	28:55	0	1.124	4146973	746369	154	385	4847	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:55	28:55	0	1.124	6556722	1206735	206	515	5858		
327.8775	28:55	28:55	0	1.124	4146973	746369	154	385	4847	1.58(1.32-1.78)	
PCB-98											
325.8804	29:04	29:04	0	1.130	6557526	804568	206	515	3906		
327.8775	29:04	29:04	0	1.130	3958310	497771	154	385	3232	1.66(1.32-1.78)	
PCB-102 (C98)											
325.8804	29:04	29:04	0	1.130	6557526	804568	206	515	3906		
327.8775	29:04	29:04	0	1.130	3958310	497771	154	385	3232	1.66(1.32-1.78)	
PCB-88											
325.8804	29:34	29:34	0	1.150	6325487	674032	206	515	3272		
327.8775	29:34	29:34	0	1.150	3989608	428899	154	385	2785	1.59(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:34	29:34	0	1.150	6325487	674032	206	515	3272		
327.8775	29:34	29:34	0	1.150	3989608	428899	154	385	2785	1.59(1.32-1.78)	
PCB-84											
325.8804	29:49	29:49	0	1.159	2898572	587913	206	515	2854		
327.8775	29:48	29:49	-1	1.159	1803126	356574	154	385	2315	1.61(1.32-1.78)	
PCB-89											
325.8804	30:17	30:17	0	1.177	3068906	623949	206	515	3029		
327.8775	30:17	30:17	0	1.177	1949660	399615	154	385	2595	1.57(1.32-1.78)	
PCB-121											
325.8804	30:40	30:40	0	1.192	5199164	1097504	206	515	5328		
327.8775	30:40	30:40	0	1.192	3247791	671970	154	385	4363	1.60(1.32-1.78)	
PCB-92											
325.8804	31:03	31:03	0	0.857	3432108	703053	206	515	3413		
327.8775	31:03	31:03	0	0.857	2205657	438338	154	385	2846	1.56(1.32-1.78)	
PCB-90											
325.8804	31:38	31:38	0	1.230	11349784	1634818	206	515	7936		
327.8775	31:38	31:38	0	1.230	7157110	1041010	154	385	6760	1.59(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:38	31:38	0	1.230	11349784	1634818	206	515	7936		
327.8775	31:38	31:38	0	1.230	7157110	1041010	154	385	6760	1.59(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:38	31:38	0	1.230	11349784	1634818	206	515	7936		
327.8775	31:38	31:38	0	1.230	7157110	1041010	154	385	6760	1.59(1.32-1.78)	
PCB-83											
325.8804	32:13	32:13	0	1.253	6797717	874850	206	515	4247		
327.8775	32:13	32:13	0	1.253	4219906	546164	154	385	3547	1.61(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:13	32:13	0	1.253	6797717	874850	206	515	4247		
327.8775	32:13	32:13	0	1.253	4219906	546164	154	385	3547	1.61(1.32-1.78)	
PCB-112											
325.8804	32:20	32:20	0	1.257	5610838	1113767	206	515	5407		
327.8775	32:20	32:20	0	1.257	3537254	708682	154	385	4602	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:42	32:42	0	1.271	24412303	2604002	206	515	12641		M
327.8775	32:42	32:42	0	1.271	15550856	1653080	154	385	10734	1.57(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:42	32:42	0	1.271	24412303	2604002	206	515	12641		M
327.8775	32:42	32:42	0	1.271	15550856	1653080	154	385	10734	1.57(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:42	32:42	0	1.271	24412303	2604002	206	515	12641		M
327.8775	32:42	32:42	0	1.271	15550856	1653080	154	385	10734	1.57(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:42	32:42	0	1.271	24412303	2604002	206	515	12641		M
327.8775	32:42	32:42	0	1.271	15550856	1653080	154	385	10734	1.57(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:42	32:42	0	1.271	24412303	2604002	206	515	12641		M
327.8775	32:42	32:42	0	1.271	15550856	1653080	154	385	10734	1.57(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:42	32:42	0	1.271	24412303	2604002	206	515	12641		M
327.8775	32:42	32:42	0	1.271	15550856	1653080	154	385	10734	1.57(1.32-1.78)	M
PCB-85											
325.8804	33:26	33:26	0	1.300	12442233	1499177	206	515	7278		
327.8775	33:26	33:26	0	1.300	7885012	929933	154	385	6039	1.58(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:26	33:26	0	1.300	12442233	1499177	206	515	7278		
327.8775	33:26	33:26	0	1.300	7885012	929933	154	385	6039	1.58(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:26	33:26	0	1.300	12442233	1499177	206	515	7278		
327.8775	33:26	33:26	0	1.300	7885012	929933	154	385	6039	1.58(1.32-1.78)	
PCB-110											
325.8804	33:38	33:38	0	1.308	9516237	1272532	206	515	6177		
327.8775	33:38	33:38	0	1.308	6024446	817657	154	385	5309	1.58(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:38	33:38	0	1.308	9516237	1272532	206	515	6177		
327.8775	33:38	33:38	0	1.308	6024446	817657	154	385	5309	1.58(1.32-1.78)	
PCB-82											
325.8804	33:56	33:56	0	1.320	3459253	672903	206	515	3267		
327.8775	33:56	33:56	0	1.320	2207706	439441	154	385	2854	1.57(1.32-1.78)	
PCB-111											
325.8804	34:19	34:19	0	1.334	4943664	988833	206	515	4800		
327.8775	34:19	34:19	0	1.334	3102290	631239	154	385	4099	1.59(1.32-1.78)	
PCB-120											
325.8804	34:46	34:46	0	1.352	5969031	1202607	206	515	5838		
327.8775	34:46	34:46	0	1.352	3745442	761443	154	385	4944	1.59(1.32-1.78)	
PCB-108											
325.8804	35:55	35:55	0	1.396	9242597	1815204	3960	9900	458		
327.8775	35:55	35:55	0	1.396	6103954	1201750	2851	7127	422	1.51(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:55	35:55	0	1.396	9242597	1815204	3960	9900	458		
327.8775	35:55	35:55	0	1.396	6103954	1201750	2851	7127	422	1.51(1.32-1.78)	
PCB-107											
325.8804	36:10	36:10	0	1.406	4982761	958104	3960	9900	242		
327.8775	36:10	36:10	0	1.406	3412657	642655	2851	7127	225	1.46(1.32-1.78)	
PCB-123											
325.8804	36:16	36:16	0	1.000	4534117	878125	3960	9900	222		
327.8775	36:16	36:16	0	1.000	2997157	594370	2851	7127	208	1.51(1.32-1.78)	
PCB-106											
325.8804	36:23	36:23	0	1.004	4496319	898911	3960	9900	227		
327.8775	36:23	36:23	0	1.004	2999336	614980	2851	7127	216	1.50(1.32-1.78)	
PCB-118											
325.8804	36:36	36:36	0	1.001	5332145	1007572	3960	9900	254		
327.8775	36:36	36:36	0	1.001	3415590	660405	2851	7127	232	1.56(1.32-1.78)	
PCB-122											
325.8804	36:57	36:57	0	1.010	4277208	854839	3960	9900	216		
327.8775	36:57	36:57	0	1.010	2861048	574261	2851	7127	201	1.49(1.32-1.78)	
PCB-114											
325.8804	37:07	37:07	0	1.001	4795670	911092	3960	9900	230		
327.8775	37:07	37:07	0	1.001	3252355	616607	2851	7127	216	1.47(1.32-1.78)	
PCB-105											
325.8804	37:47	37:47	0	1.000	5037345	944255	3960	9900	238		
327.8775	37:47	37:47	0	1.000	3457944	633601	2851	7127	222	1.46(1.32-1.78)	
PCB-127											
325.8804	39:14	39:14	0	1.039	4905314	893347	3960	9900	226		
327.8775	39:15	39:14	1	1.039	3319086	614273	2851	7127	215	1.48(1.32-1.78)	
PCB-126											
325.8804	40:52	40:52	0	1.001	4769757	832940	3960	9900	210		
327.8775	40:52	40:52	0	1.001	3180542	542178	2851	7127	190	1.50(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:22	0	0.790	5893046	1217066	89	222	13675		
373.8788	31:22	31:22	0	0.790	4632505	963686	113	282	8528	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:26	38:26	0	0.900	4059870	814731	3946	9865	206		
373.8788	38:26	38:26	0	0.900	3171635	632040	2554	6385	247	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:42	39:42	0		7964825	1543846	3946	9865	391		
373.8788	39:42	39:42	0		6208127	1207697	2554	6385	473	1.28(1.05-1.43)	
PCB-167L											
371.8817	42:41	42:41	0	1.075	10120997	1979259	3946	9865	502		
373.8788	42:41	42:41	0	1.075	7901151	1525296	2554	6385	597	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:51	43:51	0	1.105	19820042	2542809	3946	9865	644		
373.8788	43:51	43:51	0	1.105	15576192	2011208	2554	6385	787	1.27(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157L (C156L)											
371.8817	43:51	43:51	0	1.105	19820042	2542809	3946	9865	644		
373.8788	43:51	43:51	0	1.105	15576192	2011208	2554	6385	787	1.27(1.05-1.43)	
PCB-169L											
371.8817	47:04	47:04	0	1.186	10069114	1875719	3946	9865	475		
373.8788	47:04	47:04	0	1.186	7872051	1483548	2554	6385	581	1.28(1.05-1.43)	
PCB-155											
359.8415	31:23	31:23	0	1.000	2835365	586300	67	167	8751		
361.8385	31:23	31:23	0	1.000	2241845	472700	31	77	15248	1.26(1.05-1.43)	
PCB-152											
359.8415	31:37	31:37	0	1.008	2927441	597723	67	167	8921		
361.8385	31:36	31:37	-1	1.007	2308949	477766	31	77	15412	1.27(1.05-1.43)	
PCB-150											
359.8415	31:46	31:46	0	1.013	3122758	656647	67	167	9801		
361.8385	31:46	31:46	0	1.013	2449321	510709	31	77	16474	1.27(1.05-1.43)	
PCB-136											
359.8415	32:09	32:09	0	1.025	3075252	625975	67	167	9343		
361.8385	32:09	32:09	0	1.025	2390999	484275	31	77	15622	1.29(1.05-1.43)	
PCB-145											
359.8415	32:26	32:26	0	1.034	2971046	599993	67	167	8955		
361.8385	32:26	32:26	0	1.034	2346037	482778	31	77	15573	1.27(1.05-1.43)	
PCB-148											
359.8415	33:56	33:56	0	1.081	2371754	485941	67	167	7253		
361.8385	33:56	33:56	0	1.081	1846016	375630	31	77	12117	1.28(1.05-1.43)	
PCB-135											
359.8415	34:32	34:32	0	1.101	4550641	504083	67	167	7524		M
361.8385	34:31	34:32	-1	1.100	3661779	406554	31	77	13115	1.24(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:32	34:32	0	1.101	4550641	504083	67	167	7524		M
361.8385	34:31	34:32	-1	1.100	3661779	406554	31	77	13115	1.24(1.05-1.43)	M
PCB-154											
359.8415	34:46	34:46	0	1.108	2569849	521927	67	167	7790		
361.8385	34:46	34:46	0	1.108	2006918	406841	31	77	13124	1.28(1.05-1.43)	
PCB-144											
359.8415	35:05	35:05	0	1.119	2493420	501105	67	167	7479		
361.8385	35:05	35:05	0	1.119	1942249	394639	31	77	12730	1.28(1.05-1.43)	
PCB-147											
359.8415	35:28	35:28	0	1.130	8841133	1653307	1452	3630	1139		
361.8385	35:28	35:28	0	1.130	7134734	1323844	1143	2857	1158	1.24(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:28	35:28	0	1.130	8841133	1653307	1452	3630	1139		
361.8385	35:28	35:28	0	1.130	7134734	1323844	1143	2857	1158	1.24(1.05-1.43)	
PCB-134											
359.8415	35:46	35:46	0	1.140	7309482	787920	1452	3630	543		
361.8385	35:46	35:46	0	1.140	5916580	628518	1143	2857	550	1.24(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											
359.8415	35:46	35:46	0	1.140	7309482	787920	1452	3630	543		
361.8385	35:46	35:46	0	1.140	5916580	628518	1143	2857	550	1.24(1.05-1.43)	
PCB-139											
359.8415	36:02	36:02	0	1.149	7855812	1386249	1452	3630	955		
361.8385	36:02	36:02	0	1.149	6345934	1133507	1143	2857	992	1.24(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:02	36:02	0	1.149	7855812	1386249	1452	3630	955		
361.8385	36:02	36:02	0	1.149	6345934	1133507	1143	2857	992	1.24(1.05-1.43)	
PCB-131											
359.8415	36:16	36:16	0	1.156	3421560	662277	1452	3630	456		
361.8385	36:15	36:16	-1	1.156	2761523	547639	1143	2857	479	1.24(1.05-1.43)	
PCB-142											
359.8415	36:24	36:24	0	1.160	3485213	705142	1452	3630	486		
361.8385	36:25	36:24	1	1.161	2854459	559546	1143	2857	490	1.22(1.05-1.43)	
PCB-132											
359.8415	36:43	36:43	0	1.171	3353291	671241	1452	3630	462		
361.8385	36:43	36:43	0	1.171	2727788	556049	1143	2857	486	1.23(1.05-1.43)	
PCB-133											
359.8415	37:13	37:13	0	1.186	3722776	728495	1452	3630	502		
361.8385	37:13	37:13	0	1.186	3039688	601376	1143	2857	526	1.22(1.05-1.43)	
PCB-165											
359.8415	37:36	37:36	0	0.881	4862967	945261	1452	3630	651		
361.8385	37:36	37:36	0	0.881	3903437	781957	1143	2857	684	1.25(1.05-1.43)	
PCB-146											
359.8415	37:51	37:51	0	0.887	4650186	920584	1452	3630	634		
361.8385	37:51	37:51	0	0.887	3759612	739394	1143	2857	647	1.24(1.05-1.43)	
PCB-161											
359.8415	37:59	37:59	0	0.890	5111496	1006971	1452	3630	694		
361.8385	37:59	37:59	0	0.890	4122580	814160	1143	2857	712	1.24(1.05-1.43)	
PCB-153											
359.8415	38:29	38:29	0	0.902	10122402	1462402	1452	3630	1007		
361.8385	38:29	38:29	0	0.902	8238304	1201715	1143	2857	1051	1.23(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:29	38:29	0	0.902	10122402	1462402	1452	3630	1007		
361.8385	38:29	38:29	0	0.902	8238304	1201715	1143	2857	1051	1.23(1.05-1.43)	
PCB-141											
359.8415	38:40	38:40	0	0.906	4053602	761473	1452	3630	524		
361.8385	38:40	38:40	0	0.906	3269398	601089	1143	2857	526	1.24(1.05-1.43)	
PCB-130											
359.8415	39:05	39:05	0	0.915	3291497	651336	1452	3630	449		
361.8385	39:05	39:05	0	0.915	2696598	531151	1143	2857	465	1.22(1.05-1.43)	
PCB-137											
359.8415	39:17	39:17	0	0.920	3724710	730093	1452	3630	503		
361.8385	39:18	39:17	1	0.921	3024965	597002	1143	2857	522	1.23(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											
359.8415	39:25	39:25	0	0.923	4938281	974009	1452	3630	671		
361.8385	39:25	39:25	0	0.923	4000237	777815	1143	2857	681	1.23(1.05-1.43)	
PCB-129											
359.8415	39:43	39:43	0	0.930	17614670	1915503	1452	3630	1319		M
361.8385	39:43	39:43	0	0.930	14268555	1559379	1143	2857	1364	1.23(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:43	39:43	0	0.930	17614670	1915503	1452	3630	1319		M
361.8385	39:43	39:43	0	0.930	14268555	1559379	1143	2857	1364	1.23(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:43	39:43	0	0.930	17614670	1915503	1452	3630	1319		M
361.8385	39:43	39:43	0	0.930	14268555	1559379	1143	2857	1364	1.23(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:43	39:43	0	0.930	17614670	1915503	1452	3630	1319		M
361.8385	39:43	39:43	0	0.930	14268555	1559379	1143	2857	1364	1.23(1.05-1.43)	M
PCB-158											
359.8415	40:06	40:06	0	0.939	5892969	1115641	1452	3630	768		
361.8385	40:06	40:06	0	0.939	4785746	922808	1143	2857	807	1.23(1.05-1.43)	
PCB-128											
359.8415	40:57	40:57	0	0.959	9081163	1227324	1452	3630	845		
361.8385	40:57	40:57	-1	0.959	7370975	1000009	1143	2857	875	1.23(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:57	0	0.959	9081163	1227324	1452	3630	845		
361.8385	40:57	40:57	-1	0.959	7370975	1000009	1143	2857	875	1.23(1.05-1.43)	
PCB-159											
359.8415	41:57	41:57	0	0.983	6280738	1201928	1452	3630	828		
361.8385	41:56	41:57	-1	0.982	5183685	976391	1143	2857	854	1.21(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	5845101	1070843	1452	3630	737		
361.8385	42:15	42:15	0	0.990	4735963	859002	1143	2857	752	1.23(1.05-1.43)	
PCB-167											
359.8415	42:42	42:42	0	1.000	5261354	999421	1452	3630	688		
361.8385	42:43	42:42	1	1.001	4264465	800859	1143	2857	701	1.23(1.05-1.43)	
PCB-156											
359.8415	43:52	43:52	0	1.001	10296029	1316698	1452	3630	907		
361.8385	43:52	43:52	0	1.001	8393502	1071211	1143	2857	937	1.23(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:52	43:52	0	1.001	10296029	1316698	1452	3630	907		
361.8385	43:52	43:52	0	1.001	8393502	1071211	1143	2857	937	1.23(1.05-1.43)	
PCB-169											
359.8415	47:05	47:05	0	1.001	5499443	982528	1452	3630	677		
361.8385	47:05	47:05	0	1.001	4415510	789690	1143	2857	691	1.25(1.05-1.43)	
PCB-188L											
405.8428	37:06	37:06	0	0.820	7063425	1416166	108	270	13113		
407.8398	37:06	37:06	0	0.820	6606626	1300840	97	242	13411	1.07(0.89-1.21)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:08	40:08	0	0.888	2610906	508854	108	270	4712		
407.8398	40:08	40:08	0	0.888	2435640	480584	97	242	4954	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:14	45:14	0		5594791	1060004	108	270	9815		
407.8398	45:14	45:14	0		5204292	986939	97	242	10175	1.08(0.89-1.21)	
PCB-170L											
405.8428	46:29	46:29	0	1.028	4771570	901208	108	270	8345		
407.8398	46:29	46:29	0	1.028	4418849	839007	97	242	8650	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:35	49:35	0	1.096	8103652	1517586	3119	7797	487		
407.8398	49:35	49:35	0	1.096	8035286	1498880	1516	3790	989	1.01(0.89-1.21)	
PCB-188											
393.8025	37:07	37:07	0	1.001	4105339	821680	71	177	11573		
395.7995	37:06	37:07	-1	1.000	3838049	757282	120	300	6311	1.07(0.89-1.21)	
PCB-179											
393.8025	37:28	37:28	0	1.010	4188132	822025	71	177	11578		
395.7995	37:28	37:28	0	1.010	3979422	796796	120	300	6640	1.05(0.89-1.21)	
PCB-184											
393.8025	37:58	37:58	0	1.024	4006682	790857	71	177	11139		
395.7995	37:58	37:58	0	1.024	3795263	755811	120	300	6298	1.06(0.89-1.21)	
PCB-176											
393.8025	38:20	38:20	0	1.034	3635485	724729	71	177	10207		
395.7995	38:20	38:20	0	1.034	3498007	688476	120	300	5737	1.04(0.89-1.21)	
PCB-186											
393.8025	38:48	38:48	0	1.046	4456784	862920	71	177	12154		
395.7995	38:48	38:48	0	1.046	4273926	827325	120	300	6894	1.04(0.89-1.21)	
PCB-178											
393.8025	40:10	40:10	0	1.083	2733085	546099	71	177	7692		
395.7995	40:10	40:10	0	1.083	2597220	504427	120	300	4204	1.05(0.89-1.21)	
PCB-175											
393.8025	40:48	40:48	0	1.100	2948496	573065	71	177	8071		
395.7995	40:48	40:48	0	1.100	2777565	549610	120	300	4580	1.06(0.89-1.21)	
PCB-187											
393.8025	41:04	41:04	0	1.107	3385176	659096	71	177	9283		
395.7995	41:04	41:04	0	1.107	3210124	616965	120	300	5141	1.05(0.89-1.21)	
PCB-182											
393.8025	41:16	41:16	0	1.113	2964308	582903	71	177	8210		
395.7995	41:16	41:16	0	1.113	2803441	544300	120	300	4536	1.06(0.89-1.21)	
PCB-183											
393.8025	41:41	41:41	0	1.124	5879703	608848	71	177	8575		M
395.7995	41:41	41:41	0	1.124	5415025	570727	120	300	4756	1.09(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:41	41:41	0	1.124	5879703	608848	71	177	8575		M
395.7995	41:41	41:41	0	1.124	5415025	570727	120	300	4756	1.09(0.89-1.21)	M



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											
393.8025	41:56	41:56	0	1.130	3052313	587039	71	177	8268		
395.7995	41:56	41:56	0	1.130	2855051	556328	120	300	4636	1.07(0.89-1.21)	
PCB-177											
393.8025	42:22	42:22	0	1.142	3064993	559363	71	177	7878		
395.7995	42:22	42:22	0	1.142	2885869	537976	120	300	4483	1.06(0.89-1.21)	
PCB-181											
393.8025	42:44	42:44	0	1.152	2898316	556730	71	177	7841		
395.7995	42:44	42:44	0	1.152	2763692	525600	120	300	4380	1.05(0.89-1.21)	
PCB-171											
393.8025	42:58	42:58	0	1.158	5500979	957875	71	177	13491		
395.7995	42:59	42:58	1	1.159	5225427	889543	120	300	7413	1.05(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:58	42:58	0	1.158	5500979	957875	71	177	13491		
395.7995	42:59	42:58	1	1.159	5225427	889543	120	300	7413	1.05(0.89-1.21)	
PCB-172											
393.8025	44:36	44:36	0	0.899	2646007	515749	71	177	7264		
395.7995	44:36	44:36	0	0.899	2518519	482481	120	300	4021	1.05(0.89-1.21)	
PCB-192											
393.8025	44:52	44:52	0	0.905	4375353	855447	71	177	12049		
395.7995	44:52	44:52	0	0.905	4152895	817744	120	300	6815	1.05(0.89-1.21)	
PCB-180											
393.8025	45:13	45:13	0	0.912	7288346	999792	71	177	14082		
395.7995	45:13	45:13	0	0.912	6885133	943225	120	300	7860	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:13	45:13	0	0.912	7288346	999792	71	177	14082		
395.7995	45:13	45:13	0	0.912	6885133	943225	120	300	7860	1.06(0.89-1.21)	
PCB-191											
393.8025	45:36	45:36	0	0.920	4139324	785163	71	177	11059		
395.7995	45:36	45:36	-1	0.919	3885876	738741	120	300	6156	1.07(0.89-1.21)	
PCB-170											
393.8025	46:31	46:31	0	0.938	2765809	521189	71	177	7341		
395.7995	46:31	46:31	0	0.938	2607601	492629	120	300	4105	1.06(0.89-1.21)	
PCB-190											
393.8025	47:01	47:01	0	0.948	4118868	797299	71	177	11230		
395.7995	47:01	47:01	0	0.948	3964883	769024	120	300	6409	1.04(0.89-1.21)	
PCB-189											
393.8025	49:37	49:37	0	1.001	3569046	666836	482	1205	1383		
395.7995	49:37	49:37	0	1.001	3464784	634983	500	1250	1270	1.03(0.89-1.21)	
PCB-202L											
439.8038	42:27	42:27	0	0.821	4765229	919773	168	420	5475		
441.8008	42:27	42:27	0	0.821	5170042	1001536	180	450	5564	0.92(0.76-1.02)	
PCB-194L											
439.8038	51:42	51:42	0		6673246	1246168	416	1040	2996		
441.8008	51:42	51:42	0		7336377	1369840	452	1130	3031	0.91(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:10	52:10	0	1.009	7886202	1456503	416	1040	3501		
441.8008	52:10	52:10	0	1.009	8833100	1639559	452	1130	3627	0.89(0.76-1.02)	
PCB-202											
427.7635	42:29	42:29	0	1.001	2603224	499482	253	632	1974		
429.7606	42:29	42:29	0	1.001	2849458	535649	130	325	4120	0.91(0.76-1.02)	
PCB-201											
427.7635	43:24	43:24	0	1.022	2462600	470285	253	632	1859		
429.7606	43:24	43:24	0	1.022	2679410	514713	130	325	3959	0.92(0.76-1.02)	
PCB-204											
427.7635	44:03	44:03	0	1.038	2552053	495494	253	632	1958		
429.7606	44:03	44:03	0	1.038	2820710	550098	130	325	4232	0.90(0.76-1.02)	
PCB-197											
427.7635	44:18	44:18	0	1.043	2655787	523043	253	632	2067		
429.7606	44:18	44:18	0	1.043	2930061	565801	130	325	4352	0.91(0.76-1.02)	
PCB-200											
427.7635	44:25	44:25	0	1.046	2632581	505862	253	632	1999		
429.7606	44:25	44:25	0	1.046	2892517	553525	130	325	4258	0.91(0.76-1.02)	
PCB-198											
427.7635	47:10	47:10	0	1.111	4329447	557742	253	632	2205		
429.7606	47:11	47:10	1	1.111	4731367	600323	130	325	4618	0.92(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:10	47:10	0	1.111	4329447	557742	253	632	2205		
429.7606	47:11	47:10	1	1.111	4731367	600323	130	325	4618	0.92(0.76-1.02)	
PCB-196											
427.7635	47:51	47:51	0	0.917	1901559	353140	253	632	1396		
429.7606	47:51	47:51	0	0.917	2040435	390965	130	325	3007	0.93(0.76-1.02)	
PCB-203											
427.7635	48:03	48:03	0	0.921	2324848	447572	253	632	1769		
429.7606	48:03	48:03	0	0.921	2561800	496116	130	325	3816	0.91(0.76-1.02)	
PCB-195											
427.7635	49:23	49:23	0	0.947	3213415	597158	550	1375	1086		
429.7606	49:22	49:23	-1	0.946	3627990	668505	2521	6302	265	0.89(0.76-1.02)	
PCB-194											
427.7635	51:43	51:43	0	0.991	3464867	653998	550	1375	1189		
429.7606	51:43	51:43	0	0.991	3983982	743039	2521	6302	295	0.87(0.76-1.02)	
PCB-205											
427.7635	52:11	52:11	0	1.000	3960492	731681	550	1375	1330		
429.7606	52:11	52:11	0	1.000	4457413	833239	2521	6302	331	0.89(0.76-1.02)	
PCB-208L											
473.7648	49:07	49:07	0	0.950	6780628	1277765	728	1820	1755		
475.7619	49:07	49:07	0	0.950	8516700	1629968	456	1140	3574	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:54	53:54	0	1.043	4642806	841323	728	1820	1156		
475.7619	53:54	53:54	0	1.043	5728565	1029873	456	1140	2258	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208											
461.7246	49:08	49:08	0	1.001	3787046	721507	500	1250	1443		
463.7216	49:08	49:08	0	1.001	4835291	932351	799	1997	1167	0.78(0.65-0.89)	
PCB-207											
461.7246	50:03	50:03	0	1.019	3800577	716698	500	1250	1433		
463.7216	50:03	50:03	0	1.019	4790023	903618	799	1997	1131	0.79(0.65-0.89)	
PCB-206											
461.7246	53:56	53:56	0	1.000	2851625	524221	500	1250	1048		
463.7216	53:56	53:56	0	1.000	3680111	684127	799	1997	856	0.77(0.65-0.89)	
PCB-209L											
507.7258	55:32	55:32	0	1.074	4295307	763543	135	337	5656		
509.7229	55:32	55:32	0	1.074	5914988	1047153	144	360	7272	0.73(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:33	55:33	0	1.000	2387796	418690	156	390	2684		
497.6826	55:33	55:33	0	1.000	3369859	591038	121	302	4885	0.71(0.59-0.79)	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

61CV1668CS3\_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
CCV Relative RT Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
 Lims ID: WDMCCV  
 Client ID:  
 Sample Type: WDMCCV  
 Inject. Date: 28-Jun-2024 09:53:00 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033304-001  
 Operator ID: Xcalibur\_System Instrument ID: D2D  
 Sublist: chrom-PCBs\_D2D\*sub2  
 Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\PCBs\_D2D.m  
 Limit Group: HR - EPA\_23 PCB ICAL  
 Last Update: 28-Jun-2024 14:00:56 Calib Date: 31-May-2024 21:13:00  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
 Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
 Process Host: CTX1657  
 First Level Reviewer: P0IK Date: 28-Jun-2024 14:00:56  
 Start Cal Date: 31-May-2024 14:36:00  
 End Cal Date: 31-May-2024 21:13:00

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-1L		11:34	11:40	7	15	0.7253	0.7284	0.717 - 0.7472
PCB-3L		13:43	13:49	6	15	0.8606	0.8621	0.849 - 0.8798
PCB-1	L	11:35	11:40	6		1.0011	1.0000	0.995 - 1.0085
PCB-2		13:34	13:39	5		0.9885	0.9876	0.985 - 0.9925
PCB-3	L	13:44	13:50	6		1.0010	1.0010	0.998 - 1.0048
PCB-4L		13:59	14:04	5	15	0.8771	0.8777	0.865 - 0.8956
PCB-9L		15:57	16:01	5		1.0000	1.0000	0.987 - 1.0128
PCB-8L		16:48	16:52	4		1.1991	*1.1991	1.192 - 1.1989
PCB-15L		19:52	19:56	5	15	1.2459	1.2446	1.233 - 1.2530
PCB-4	L	14:00	14:05	6		1.0009	1.0019	0.994 - 1.0058
PCB-10		14:10	14:15	5		1.0132	1.0131	1.010 - 1.0168
PCB-9		15:58	16:02	4		1.1421	1.1402	1.135 - 1.1415
PCB-7		16:08	16:12	5		1.1534	1.1524	1.147 - 1.1538
PCB-6		16:22	16:27	6		1.1703	1.1701	1.164 - 1.1706
PCB-5		16:41	16:45	5		1.1929	1.1917	1.186 - 1.1926
PCB-8		16:48	16:52	5		1.2013	1.2001	1.194 - 1.2008
PCB-14		18:26	18:29	4		0.9278	0.9275	0.926 - 0.9305
PCB-11		19:16	19:20	4		0.9702	0.9697	0.968 - 0.9725
PCB-12/13		19:34	19:38	5		0.9848	0.9848	0.983 - 0.9875
PCB-15	L	19:53	19:57	4		1.0013	1.0007	0.997 - 1.0050
PCB-19L		17:05	17:10	5	15	0.8402	0.8409	0.831 - 0.8547
PCB-32L		20:20	20:25	5		1.0000	1.0000	0.998 - 1.0024
PCB-31L		22:37	22:39	3		1.0000	1.0000	0.998 - 1.0022
PCB-28L		22:55	22:57	2		1.0130	1.0130	1.006 - 1.0201

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-37L		26:54	26:57	3	15	1.1902	1.1897	1.178 - 1.1995
PCB-19	L	17:06	17:11	6		1.0008	1.0015	0.996 - 1.0058
PCB-18/30		18:57	18:59	3		1.1085	1.1065	1.104 - 1.1093
PCB-17		19:23	19:27	4		1.1347	1.1333	1.129 - 1.1352
PCB-27		19:37	19:40	4		1.1478	1.1463	1.141 - 1.1471
PCB-24		19:44	19:48	4		1.1547	1.1532	1.148 - 1.1542
PCB-16		19:51	19:55	5		1.1617	1.1609	1.156 - 1.1621
PCB-32		20:22	20:25	4		1.1917	1.1900	1.185 - 1.1908
PCB-34		21:37	21:41	4		1.2654	*1.2634	1.257 - 1.2623
PCB-23		21:47	21:49	3		1.2744	*1.2716	1.266 - 1.2715
PCB-26/29		22:06	22:09	3		1.2931	1.2902	1.282 - 1.2915
PCB-25		22:19	22:22	4		0.8293	0.8301	0.829 - 0.8325
PCB-31		22:38	22:41	3		0.8412	0.8415	0.840 - 0.8438
PCB-20/28		22:56	22:59	3		0.8526	0.8529	0.851 - 0.8568
PCB-21/33		23:06	23:09	3		0.8588	0.8590	0.858 - 0.8637
PCB-22		23:33	23:37	4		0.8754	0.8761	0.875 - 0.8786
PCB-36		25:07	25:10	3		0.9334	0.9336	0.932 - 0.9352
PCB-39		25:28	25:31	3		0.9467	0.9468	0.945 - 0.9483
PCB-38		26:03	26:06	3		0.9681	0.9682	0.966 - 0.9695
PCB-35		26:31	26:34	3		0.9857	0.9858	0.984 - 0.9875
PCB-37	L	26:55	26:58	4		1.0005	1.0009	0.999 - 1.0024
PCB-54L		20:10	20:14	5	15	0.8149	0.8164	0.811 - 0.8247
PCB-52L		24:45	24:47	3		1.0000	1.0000	0.992 - 1.0083
PCB-79L		32:41	32:41	1		0.9707	0.9704	0.969 - 0.9718
PCB-81L		33:40	33:41	2	15	1.3604	1.3590	1.351 - 1.3641
PCB-77L		34:13	34:16	3	15	1.3832	1.3823	1.373 - 1.3867
PCB-54	L	20:12	20:16	5		1.0000	1.0000	0.996 - 1.0041
PCB-50/53		22:23	22:25	3		1.1097	1.1080	1.102 - 1.1106
PCB-45/51		23:06	23:09	3		1.1459	1.1440	1.137 - 1.1453
PCB-46		23:20	23:24	4		1.1573	1.1560	1.153 - 1.1576
PCB-52		24:46	24:48	2		1.2284	1.2255	1.222 - 1.2263
PCB-43/73		24:55	24:56	2		1.2353	1.2325	1.230 - 1.2346
PCB-49/69		25:12	25:14	2		1.2499	1.2470	1.242 - 1.2499
PCB-48		25:32	25:34	2		1.2665	1.2634	1.259 - 1.2636
PCB-44/47/65		25:47	25:49	2		1.2785	1.2755	1.269 - 1.2770
PCB-59/62/75		26:05	26:07	3		1.2931	1.2906	1.284 - 1.2919
PCB-42		26:17	26:19	3		1.3033	1.3007	1.296 - 1.3007
PCB-40/41/71		26:47	26:49	3		1.3280	*1.3254	1.317 - 1.3250
PCB-64		27:00	27:02	3		1.3388	*1.3361	1.331 - 1.3355
PCB-72		27:50	27:51	1		0.8271	0.8269	0.826 - 0.8291
PCB-68		28:07	28:09	2		0.8354	0.8357	0.835 - 0.8375
PCB-57		28:33	28:34	2		0.8480	0.8482	0.847 - 0.8500
PCB-58		28:47	28:49	2		0.8552	0.8554	0.854 - 0.8574
PCB-67		28:57	28:58	1		0.8601	0.8599	0.859 - 0.8620
PCB-63		29:13	29:14	2		0.8677	0.8679	0.866 - 0.8694
PCB-61/70/74/76		29:33	29:35	2		0.8780	0.8782	0.875 - 0.8810

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-66		29:52	29:54	2		0.8875	0.8877	0.886 - 0.8894
PCB-55		30:02	30:04	3		0.8920	0.8926	0.891 - 0.8943
PCB-56		30:32	30:35	3		0.9072	0.9078	0.907 - 0.9098
PCB-60		30:45	30:47	2		0.9137	0.9138	0.913 - 0.9158
PCB-80		31:10	31:11	1		0.9259	0.9256	0.924 - 0.9268
PCB-79		32:42	32:43	1		0.9715	0.9712	0.970 - 0.9726
PCB-78		33:15	33:16	1		0.9878	0.9875	0.986 - 0.9890
PCB-81	T	33:41	33:43	2		1.0008	1.0008	0.999 - 1.0020
PCB-77	T/L	34:15	34:16	2		1.0007	1.0004	0.999 - 1.0019
PCB-104L		25:42	25:43	2	15	0.8129	0.8136	0.810 - 0.8199
PCB-95L		28:40	28:41	2		1.1155	1.1153	1.112 - 1.1179
PCB-101L		31:36	31:37	1		1.0000	1.0000	0.994 - 1.0065
PCB-111L		34:17	34:17	0		1.0850	1.0845	1.079 - 1.0891
PCB-123L		36:15	36:15	1	15	1.1469	1.1467	1.141 - 1.1511
PCB-118L		36:34	36:34	0	15	1.1573	1.1567	1.151 - 1.1614
PCB-114L		37:06	37:06	0	15	1.1739	1.1733	1.168 - 1.1780
PCB-105L		37:44	37:46	2	15	1.1943	1.1945	1.188 - 1.1989
PCB-127L		39:13	39:13	1		1.0000	1.0000	0.995 - 1.0053
PCB-126L		40:49	40:50	2	15	1.2917	1.2918	1.285 - 1.2956
PCB-104	L	25:42	25:45	3		1.0005	1.0010	0.998 - 1.0039
PCB-96		26:05	26:08	4		1.0149	1.0159	1.013 - 1.0195
PCB-103		28:01	28:02	1		1.0907	1.0900	1.087 - 1.0912
PCB-94		28:14	28:16	2		1.0991	1.0989	1.097 - 1.1003
PCB-95		28:41	28:43	2		1.1165	1.1163	1.113 - 1.1193
PCB-93/100		28:54	28:55	1		1.1250	1.1243	1.120 - 1.1267
PCB-98/102		29:03	29:04	1		1.1310	1.1303	1.127 - 1.1336
PCB-88/91		29:33	29:34	2		1.1499	1.1496	1.143 - 1.1505
PCB-84		29:46	29:49	4		1.1584	1.1591	1.157 - 1.1603
PCB-89		30:15	30:17	3		1.1773	1.1775	1.175 - 1.1786
PCB-121		30:40	30:40	1		1.1937	*1.1924	1.188 - 1.1922
PCB-92		31:02	31:03	1		0.8564	0.8565	0.856 - 0.8589
PCB-90/101/113		31:37	31:38	1		1.2306	1.2297	1.224 - 1.2307
PCB-83/99		32:12	32:13	1		1.2535	1.2525	1.245 - 1.2525
PCB-112		32:19	32:20	1		1.2580	1.2570	1.254 - 1.2574
PCB-86/87/97/109/119/125		32:41	32:42	1		1.2724	1.2714	1.265 - 1.2756
PCB-85/116/117		33:25	33:26	1		1.3008	1.2998	1.293 - 1.3007
PCB-110/115		33:36	33:38	3		1.3078	1.3077	1.303 - 1.3092
PCB-82		33:54	33:56	3		1.3198	*1.3196	1.316 - 1.3194
PCB-111		34:19	34:19	0		1.3357	*1.3341	1.329 - 1.3330
PCB-120		34:46	34:46	1		1.3531	*1.3520	1.348 - 1.3514
PCB-108/124		35:54	35:55	1		1.3975	1.3962	1.390 - 1.3967
PCB-107		36:09	36:10	1		1.4072	*1.4059	1.401 - 1.4049
PCB-123	T	36:16	36:16	0		1.0007	1.0004	1.000 - 1.0023
PCB-106		36:22	36:23	1		1.0036	1.0036	1.003 - 1.0057
PCB-118	T	36:35	36:36	1		1.0004	1.0007	0.999 - 1.0019
PCB-122		36:56	36:57	1		1.0101	1.0104	1.009 - 1.0117

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-114	T	37:07	37:07	1		1.0004	1.0007	0.999 - 1.0018
PCB-105	T	37:46	37:47	1		1.0007	1.0003	0.999 - 1.0018
PCB-127		39:14	39:14	0		1.0397	1.0390	1.037 - 1.0399
PCB-126	T/L	40:51	40:52	2		1.0006	1.0006	1.000 - 1.0016
PCB-155L		31:22	31:22	1	15	0.7904	0.7903	0.787 - 0.7951
PCB-153L		38:27	38:26	-1		0.9005	0.9003	0.899 - 0.9028
PCB-138L		39:41	39:42	1		1.0000	1.0000	0.979 - 1.0208
PCB-167L		42:42	42:41	0	15	1.0759	1.0755	1.071 - 1.0792
PCB-156L/157L		43:51	43:51	0	15	1.1050	1.1046	1.100 - 1.1084
PCB-169L		47:05	47:04	0	15	1.1862	1.1857	1.184 - 1.1864
PCB-155	L	31:24	31:23	0		1.0008	1.0004	0.998 - 1.0031
PCB-152		31:35	31:37	2		1.0069	1.0077	1.006 - 1.0096
PCB-150		31:45	31:46	1		1.0122	1.0126	1.011 - 1.0144
PCB-136		32:07	32:09	3		1.0236	1.0249	1.024 - 1.0268
PCB-145		32:24	32:26	2		1.0330	1.0338	1.033 - 1.0358
PCB-148		33:56	33:56	0		1.0816	1.0815	1.080 - 1.0830
PCB-135/151		34:31	34:32	1		1.1004	1.1007	1.099 - 1.1038
PCB-154		34:46	34:46	0		1.1085	1.1084	1.106 - 1.1107
PCB-144		35:05	35:05	1		1.1183	1.1186	1.117 - 1.1199
PCB-147/149		35:27	35:28	1		1.1301	1.1304	1.127 - 1.1326
PCB-134/143		35:45	35:46	2		1.1394	1.1401	1.136 - 1.1409
PCB-139/140		36:03	36:02	0		1.1490	1.1489	1.146 - 1.1515
PCB-131		36:15	36:16	2		1.1553	1.1560	1.154 - 1.1571
PCB-142		36:23	36:24	1		1.1599	1.1602	1.159 - 1.1621
PCB-132		36:42	36:43	2		1.1700	1.1707	1.168 - 1.1728
PCB-133		37:13	37:13	0		1.1863	1.1862	1.184 - 1.1872
PCB-165		37:37	37:36	0		0.8808	0.8809	0.880 - 0.8825
PCB-146		37:52	37:51	0		0.8867	0.8867	0.886 - 0.8882
PCB-161		37:59	37:59	0		0.8897	0.8898	0.889 - 0.8914
PCB-153/168		38:29	38:29	0		0.9014	0.9015	0.900 - 0.9040
PCB-141		38:40	38:40	1		0.9054	0.9058	0.905 - 0.9075
PCB-130		39:04	39:05	1		0.9150	0.9154	0.915 - 0.9172
PCB-137		39:18	39:17	0		0.9202	0.9203	0.920 - 0.9224
PCB-164		39:25	39:25	1		0.9230	0.9234	0.923 - 0.9252
PCB-129/138/160/163		39:44	39:43	0		0.9304	0.9304	0.930 - 0.9349
PCB-158		40:06	40:06	0		0.9393	0.9394	0.939 - 0.9409
PCB-128/166		40:57	40:57	1		0.9590	0.9594	0.958 - 0.9617
PCB-159		41:58	41:57	0		0.9828	0.9828	0.982 - 0.9839
PCB-162		42:15	42:15	0		0.9895	0.9895	0.988 - 0.9907
PCB-167	T	42:43	42:42	-1		1.0006	1.0003	0.999 - 1.0016
PCB-156/157	T	43:53	43:52	0		1.0006	1.0006	0.999 - 1.0025
PCB-169	T/L	47:06	47:05	0		1.0006	1.0006	0.999 - 1.0015
PCB-188L		37:06	37:06	0	15	0.8198	0.8201	0.817 - 0.8243
PCB-178L		40:09	40:08	0		0.8875	0.8875	0.884 - 0.8916
PCB-180L		45:15	45:14	-1		1.0000	1.0000	0.996 - 1.0037
PCB-170L		46:30	46:29	0	15	1.0276	1.0279	1.024 - 1.0317



Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-189L		49:37	49:35	-1	15	1.0965	1.0964	1.093 - 1.1000
PCB-188	L	37:07	37:07	0		1.0007	1.0007	1.000 - 1.0022
PCB-179		37:27	37:28	1		1.0096	1.0099	1.009 - 1.0115
PCB-184		37:59	37:58	-1		1.0241	1.0237	1.023 - 1.0254
PCB-176		38:20	38:20	1		1.0333	1.0337	1.033 - 1.0351
PCB-186		38:48	38:48	1		1.0457	1.0461	1.045 - 1.0476
PCB-178		40:10	40:10	0		1.0830	1.0829	1.081 - 1.0837
PCB-175		40:48	40:48	0		1.1000	1.0999	1.098 - 1.1008
PCB-187		41:05	41:04	0		1.1074	1.1073	1.106 - 1.1082
PCB-182		41:17	41:16	0		1.1127	1.1127	1.111 - 1.1137
PCB-183/185		41:42	41:41	-1		1.1241	1.1236	1.123 - 1.1260
PCB-174		41:56	41:56	0		1.1305	1.1304	1.129 - 1.1313
PCB-177		42:22	42:22	0		1.1422	1.1420	1.140 - 1.1430
PCB-181		42:45	42:44	0		1.1524	1.1523	1.151 - 1.1535
PCB-171/173		42:58	42:58	0		1.1585	1.1584	1.156 - 1.1602
PCB-172		44:37	44:36	-1		0.8993	0.8993	0.899 - 0.9008
PCB-192		44:54	44:52	-1		0.9049	0.9049	0.904 - 0.9060
PCB-180/193		45:14	45:13	-1		0.9117	0.9118	0.911 - 0.9130
PCB-191		45:37	45:36	0		0.9194	0.9197	0.919 - 0.9209
PCB-170		46:31	46:31	0		0.9377	0.9380	0.937 - 0.9392
PCB-190		47:02	47:01	0		0.9481	0.9484	0.948 - 0.9496
PCB-189	T/L	49:38	49:37	0		1.0003	1.0005	0.999 - 1.0013
PCB-202L		42:28	42:27	0	15	0.8211	0.8212	0.819 - 0.8249
PCB-194L		51:43	51:42	0		1.0000	1.0000	0.996 - 1.0040
PCB-205L		52:11	52:10	-1	15	1.0092	1.0091	1.004 - 1.0138
PCB-202	L	42:29	42:29	0		1.0006	1.0006	0.999 - 1.0027
PCB-201		43:24	43:24	0		1.0223	1.0223	1.020 - 1.0237
PCB-204		44:05	44:03	-1		1.0381	1.0378	1.036 - 1.0388
PCB-197		44:19	44:18	-1		1.0437	1.0434	1.042 - 1.0445
PCB-200		44:25	44:25	0		1.0462	1.0461	1.045 - 1.0473
PCB-198/199		47:12	47:10	-1		1.1115	1.1111	1.109 - 1.1132
PCB-196		47:53	47:51	-1		0.9175	0.9173	0.917 - 0.9189
PCB-203		48:05	48:03	-1		0.9212	0.9210	0.921 - 0.9226
PCB-195		49:24	49:23	0		0.9465	0.9466	0.946 - 0.9481
PCB-194		51:44	51:43	-1		0.9914	0.9914	0.991 - 0.9926
PCB-205	L	52:13	52:11	-1		1.0005	1.0002	0.999 - 1.0013
PCB-208L		49:08	49:07	-1	15	0.9503	0.9500	0.947 - 0.9534
PCB-206L		53:56	53:54	-1	15	1.0431	1.0428	1.038 - 1.0472
PCB-208	L	49:10	49:08	-1		1.0005	1.0005	0.999 - 1.0013
PCB-207		50:05	50:03	-1		1.0193	1.0193	1.019 - 1.0205
PCB-206	L	53:58	53:56	-1		1.0005	1.0005	1.000 - 1.0015
PCB-209L		55:35	55:32	-2	15	1.0748	1.0742	1.069 - 1.0784
DCB Decachlorobiphenyl	L	55:35	55:33	-1		1.0002	1.0005	0.999 - 1.0012



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

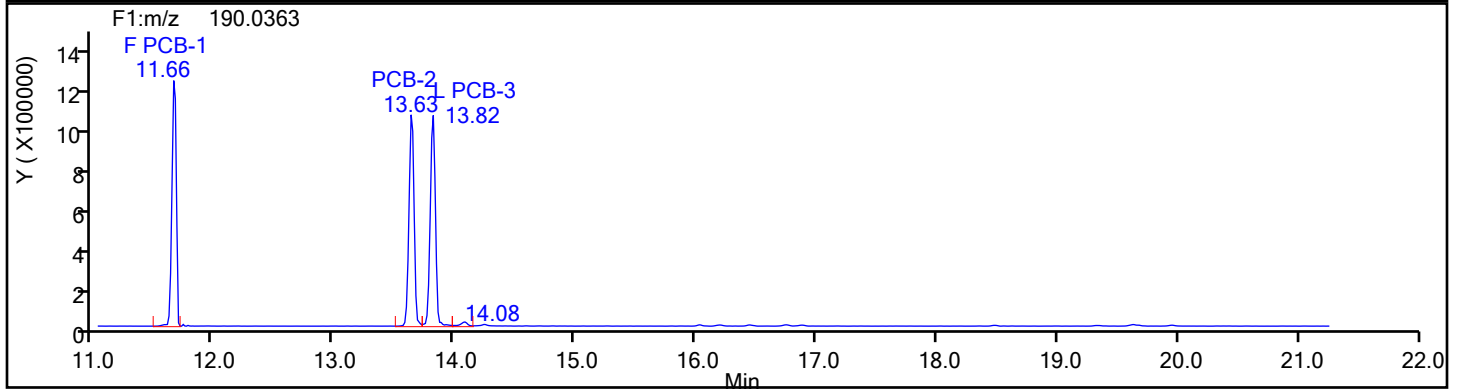
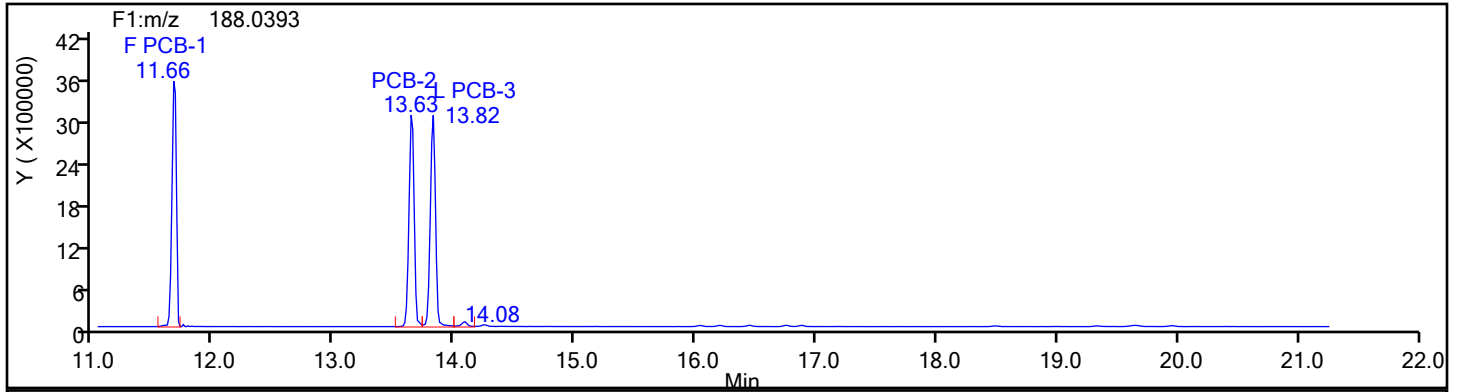
Worklist#: 88219

Sample Line#: 1

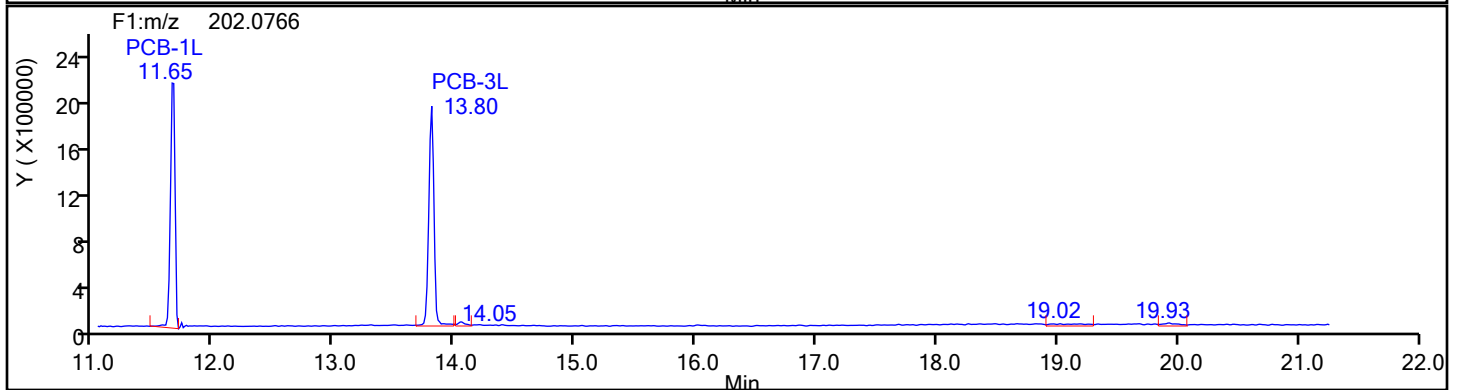
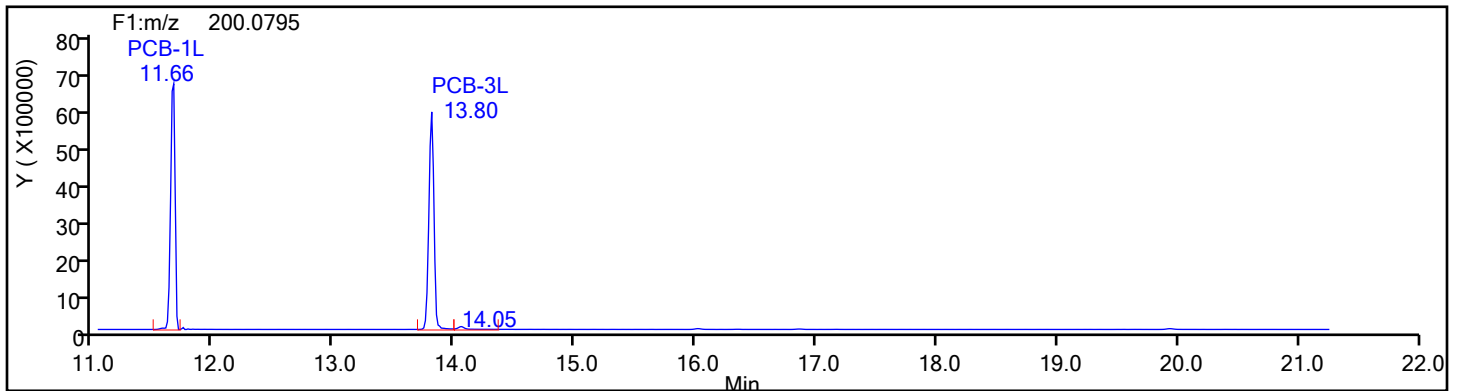
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

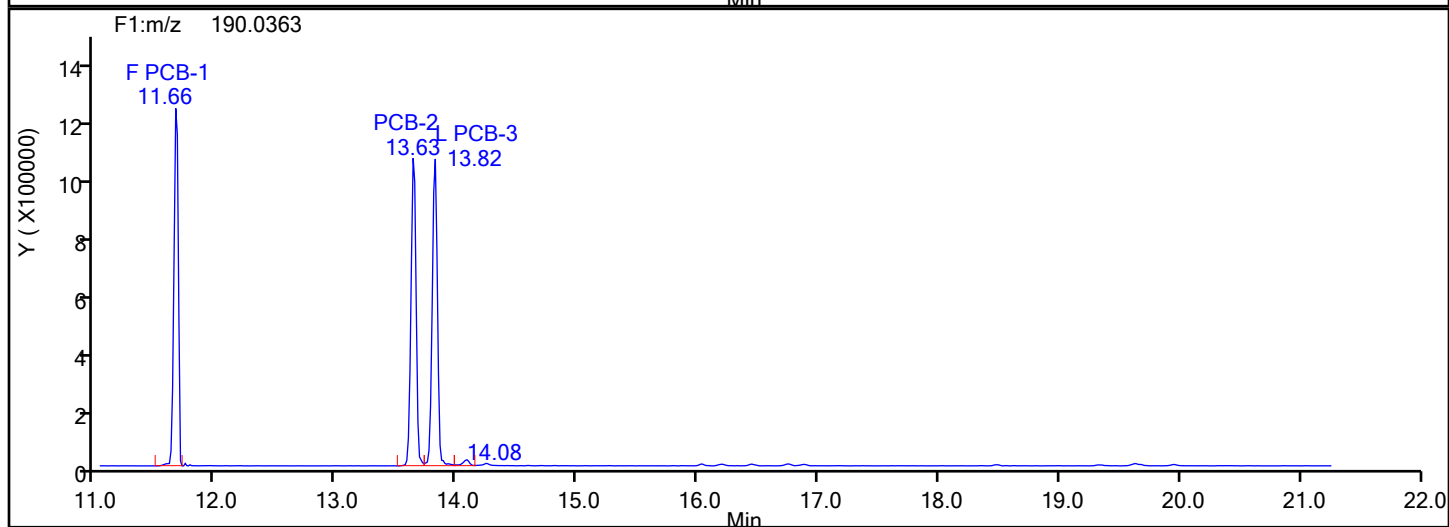
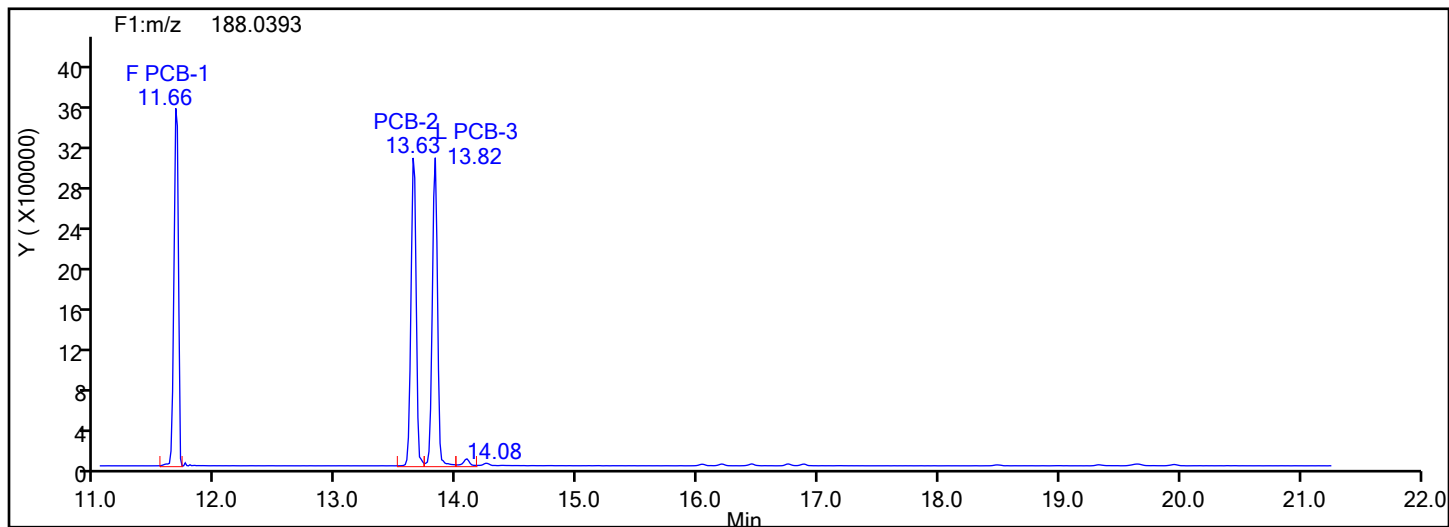
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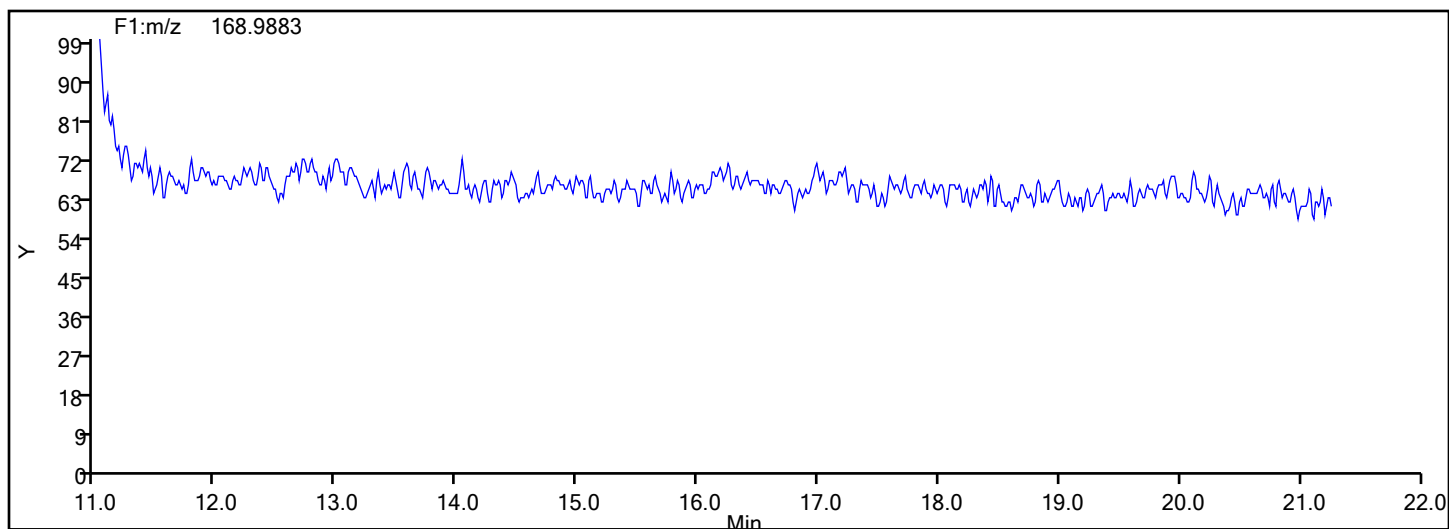
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

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Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

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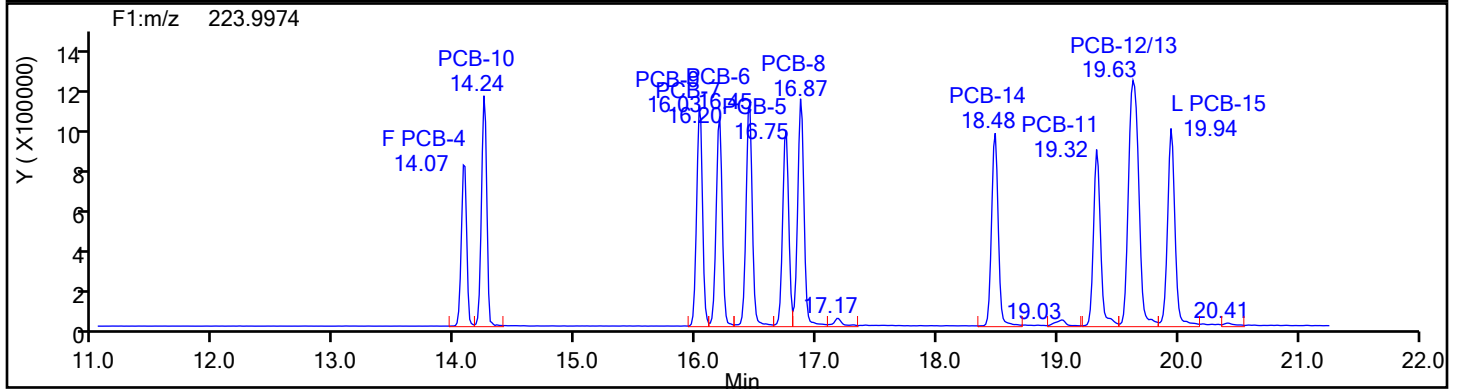
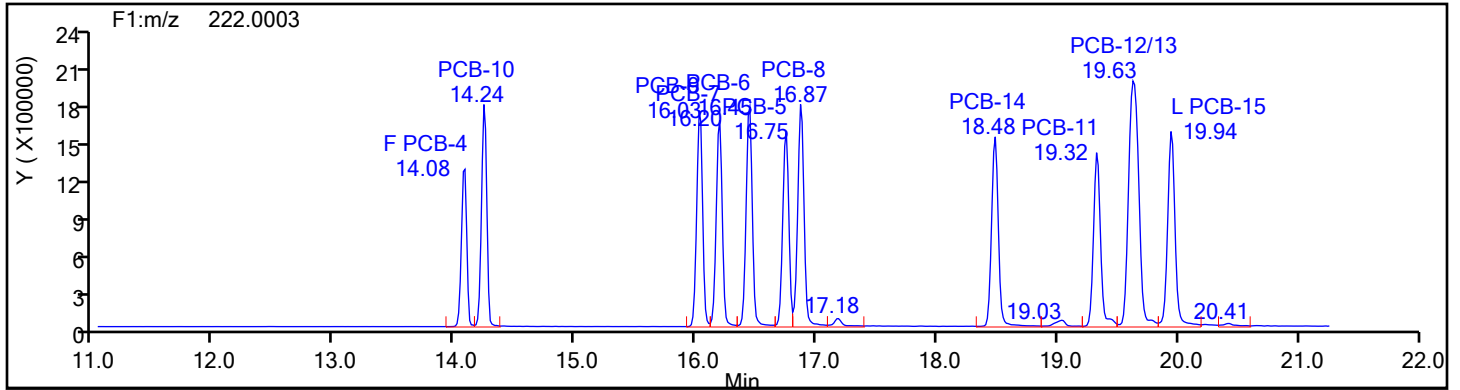
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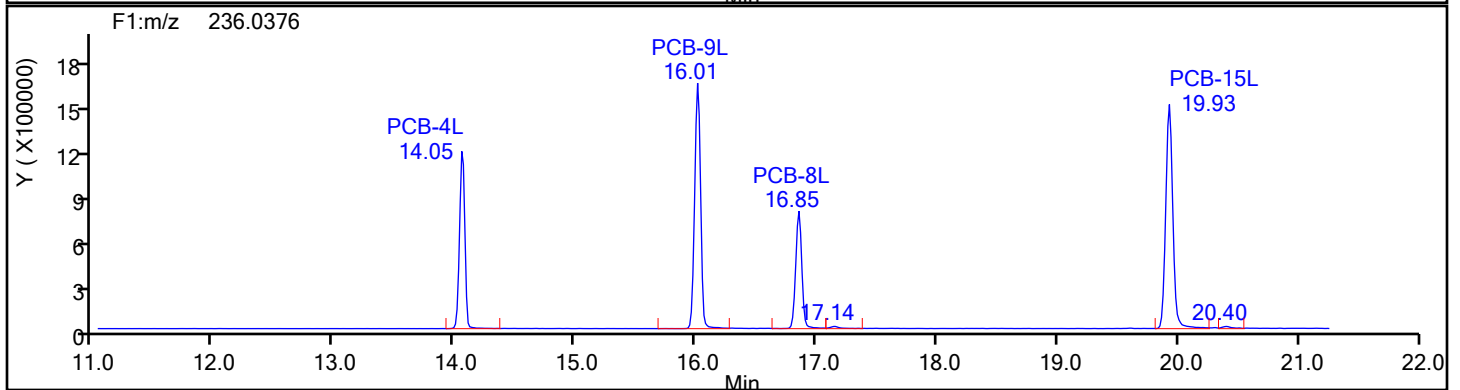
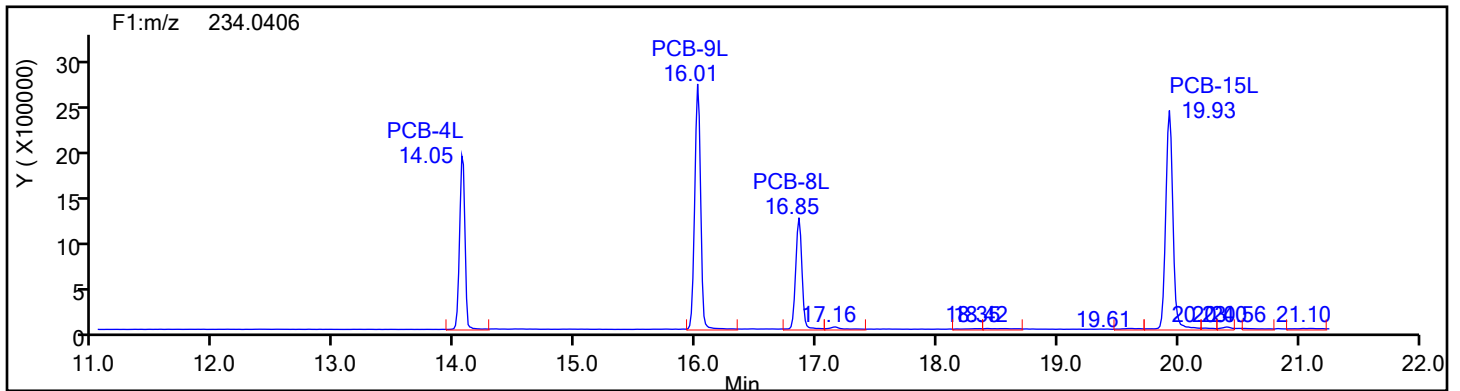
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

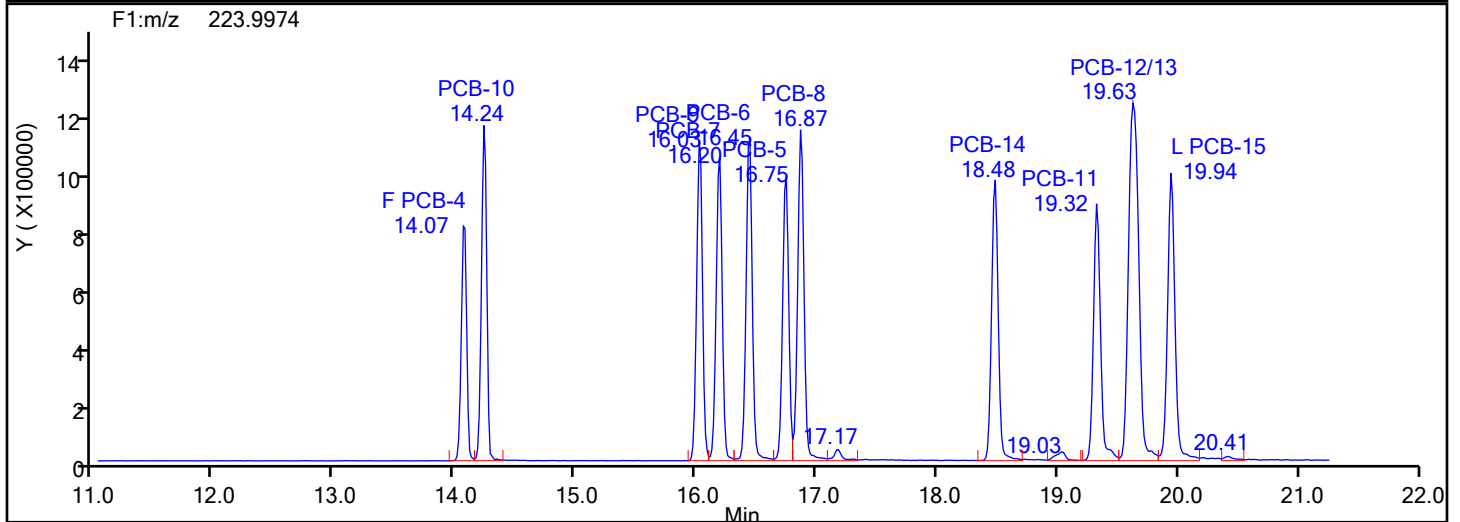
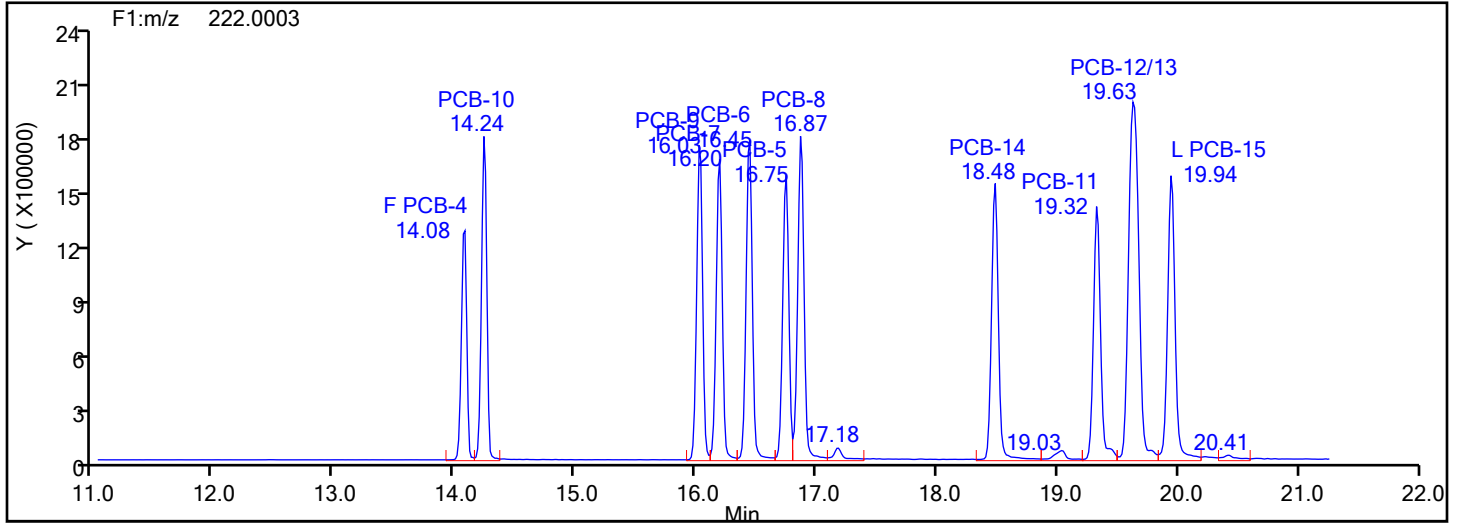
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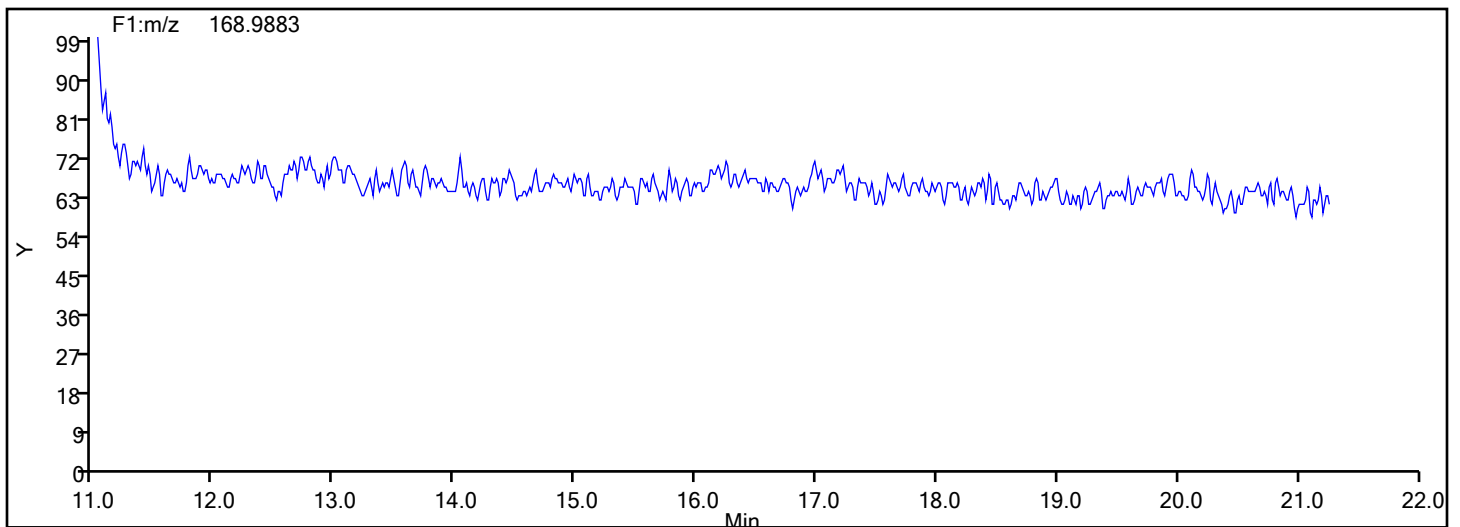
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

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Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

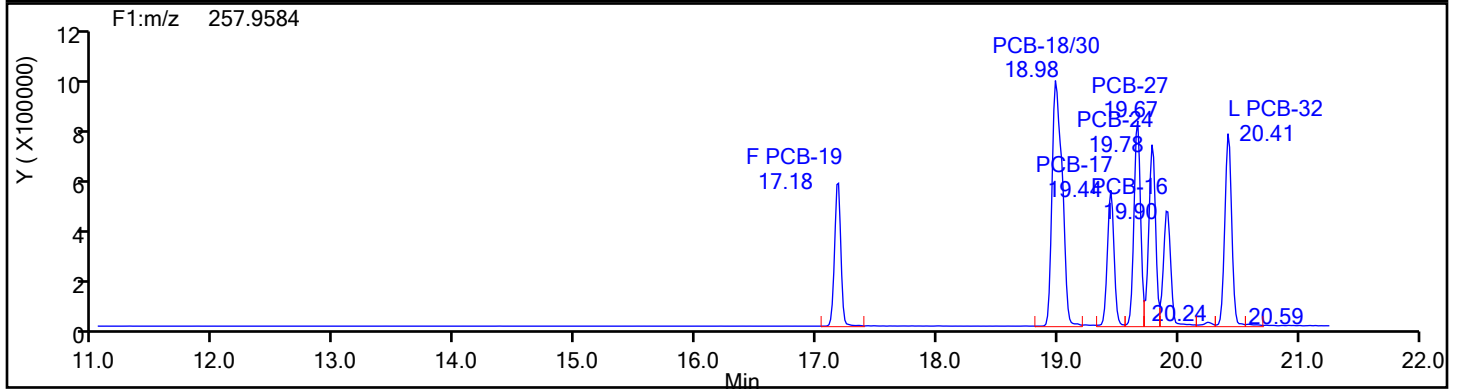
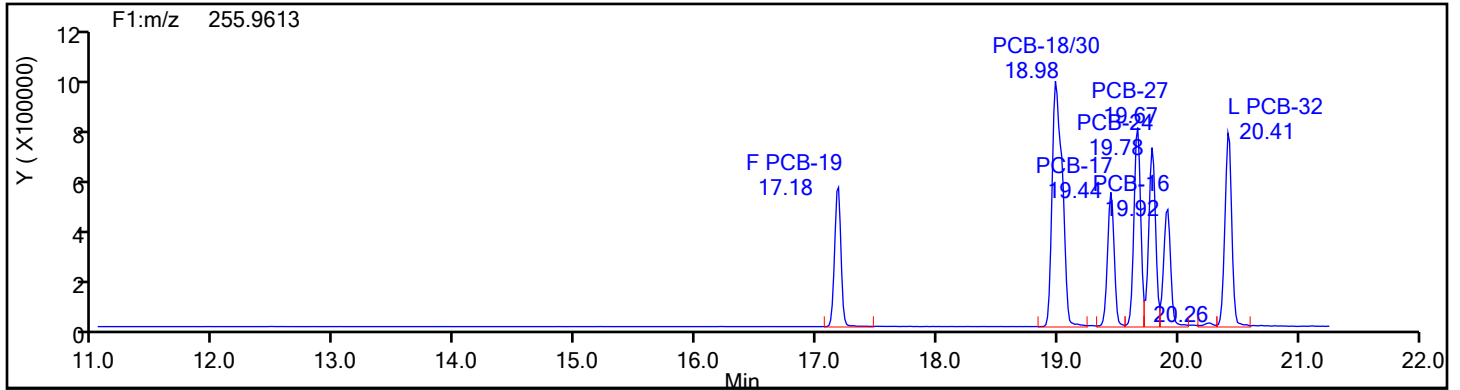
Worklist#: 88219

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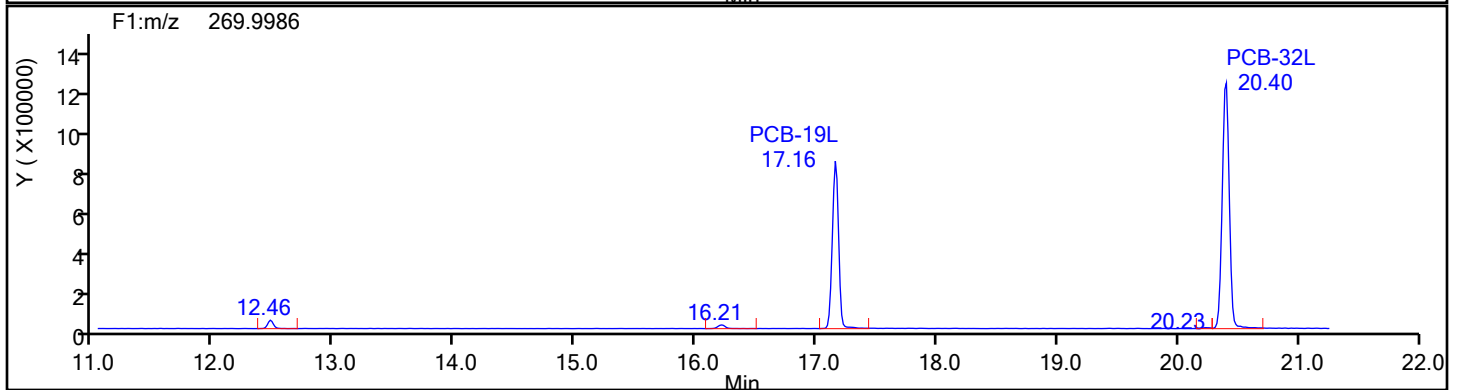
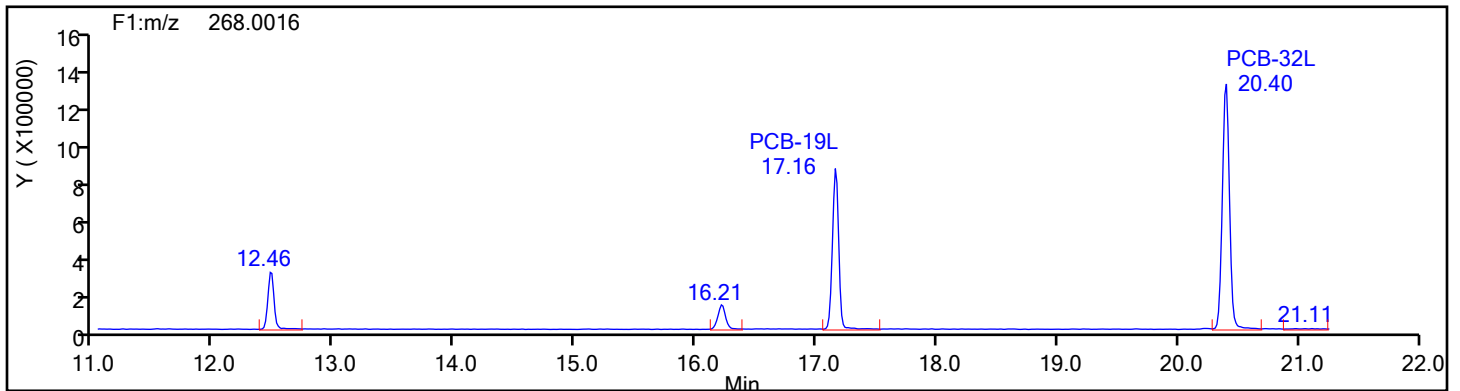
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

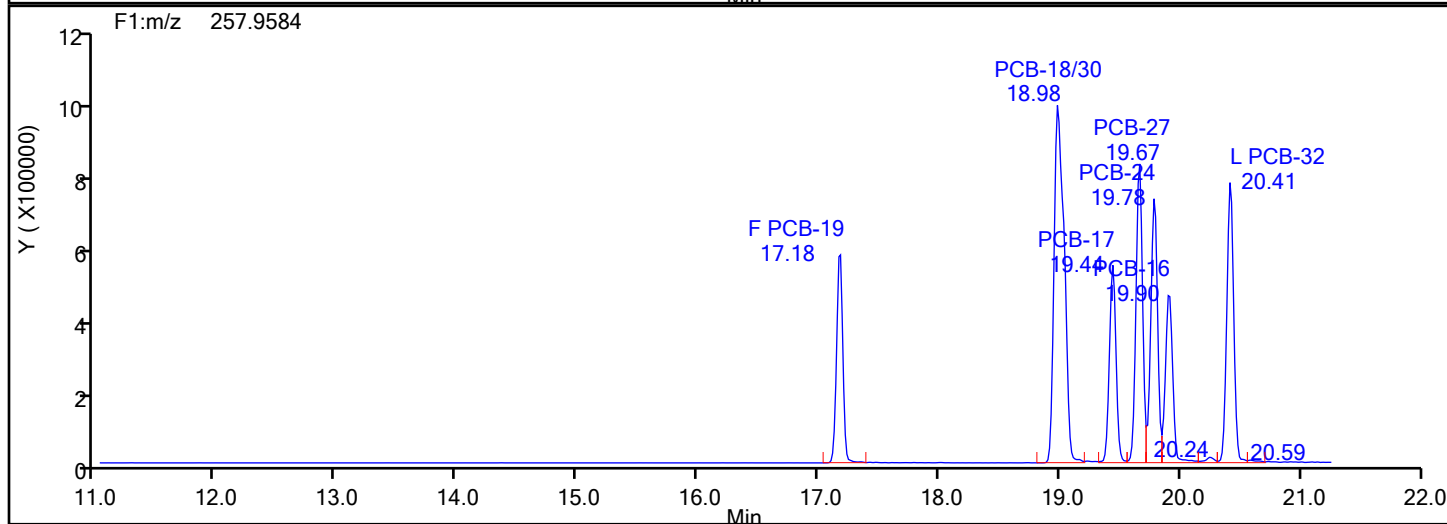
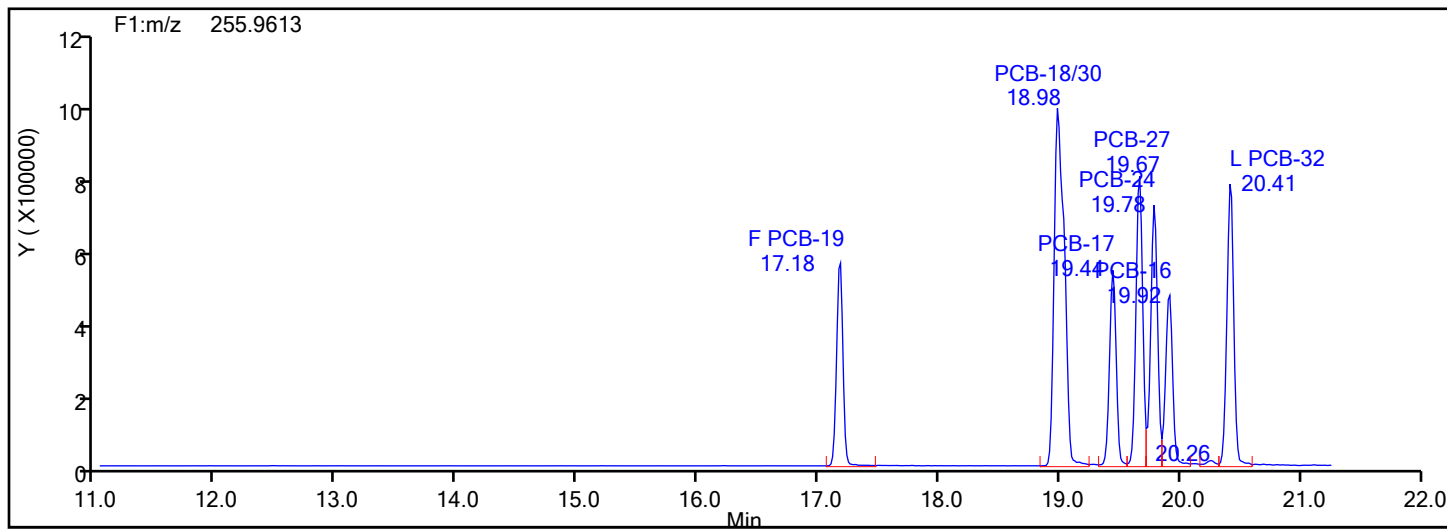
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Sample Line#: 1

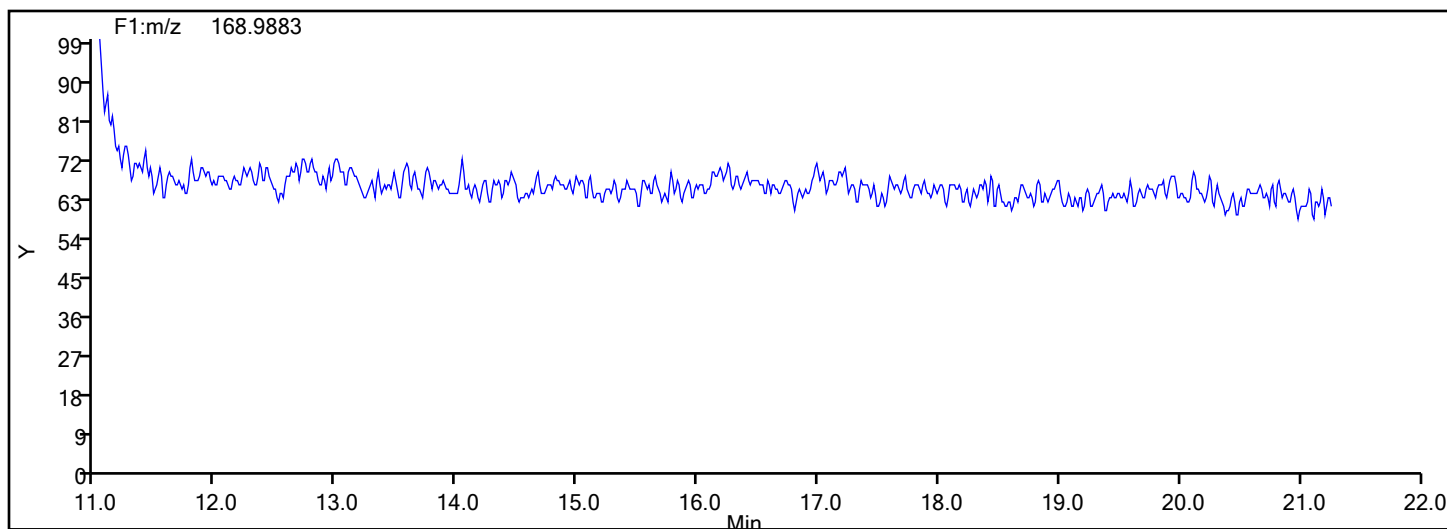
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

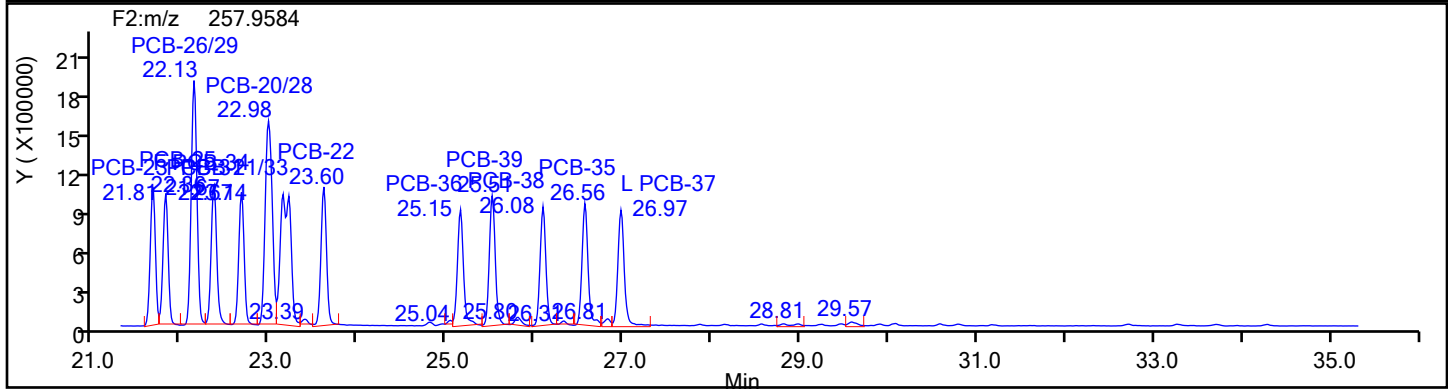
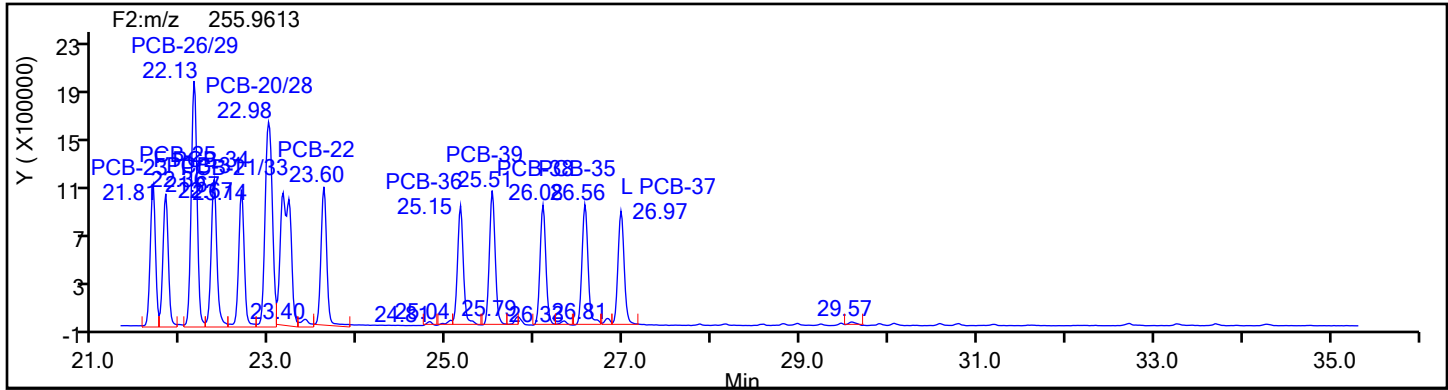
Worklist#: 88219

Sample Line#: 1

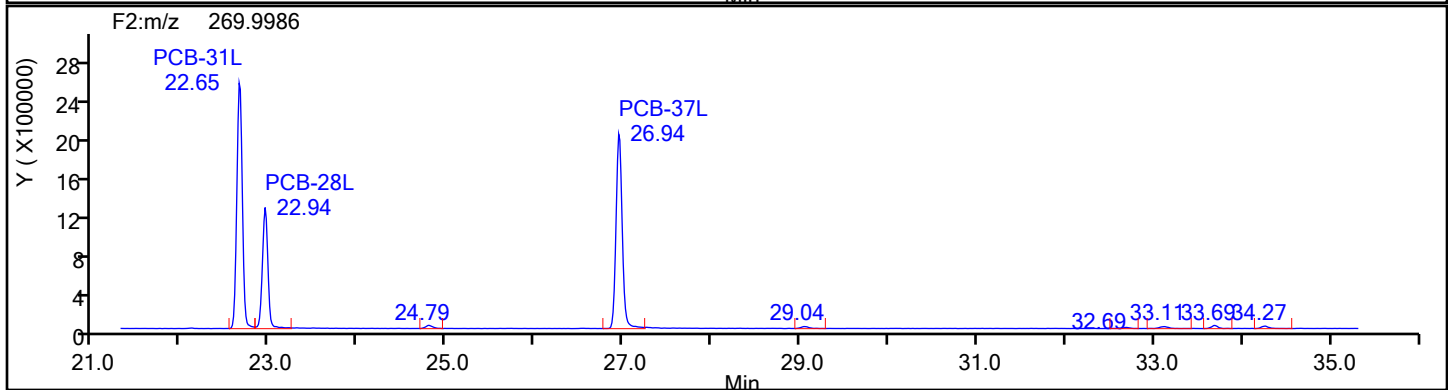
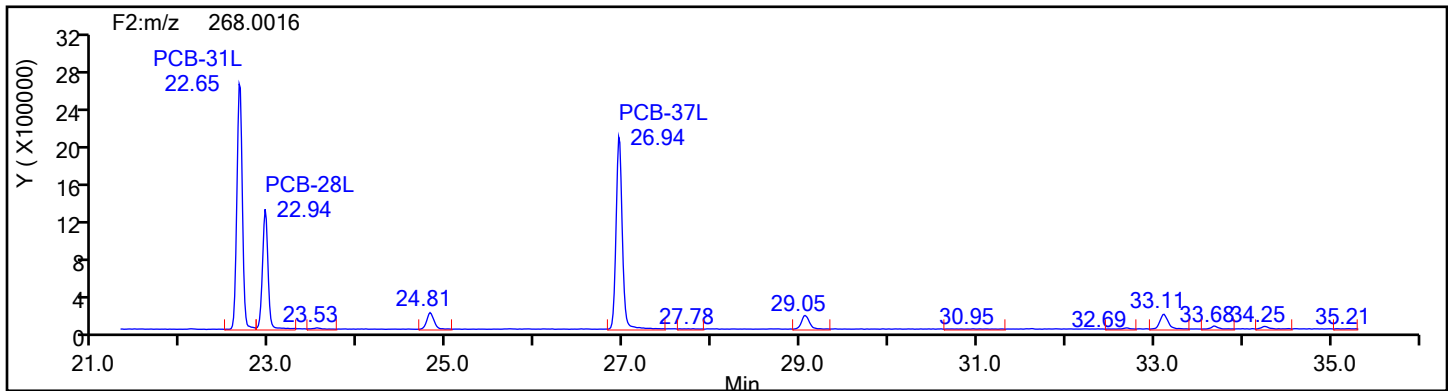
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

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Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

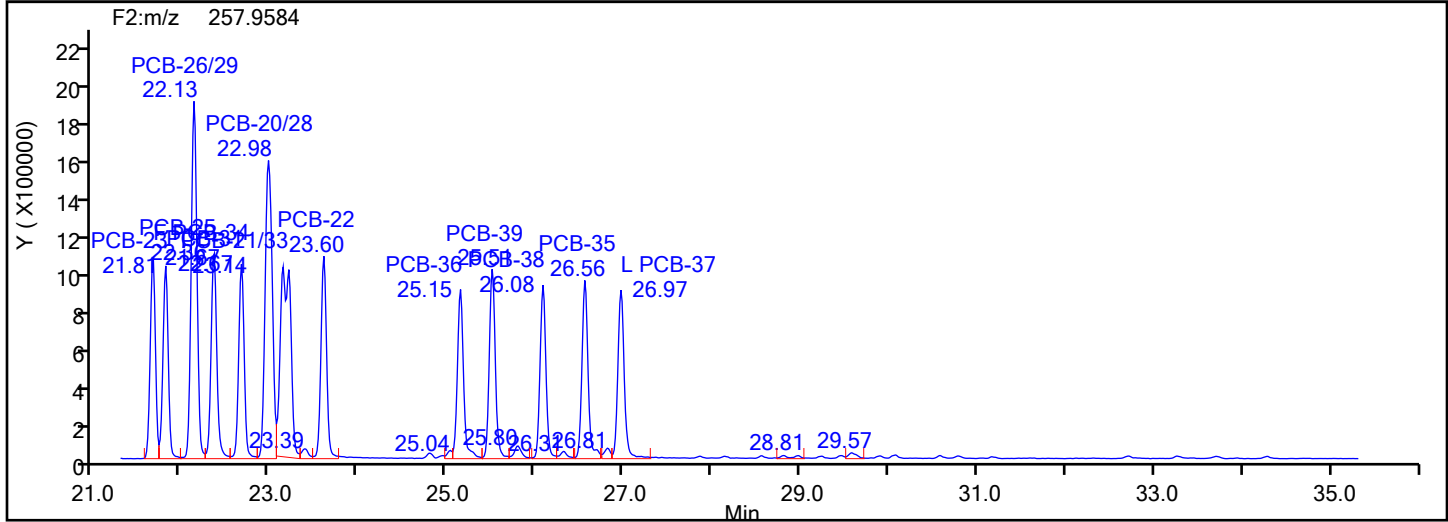
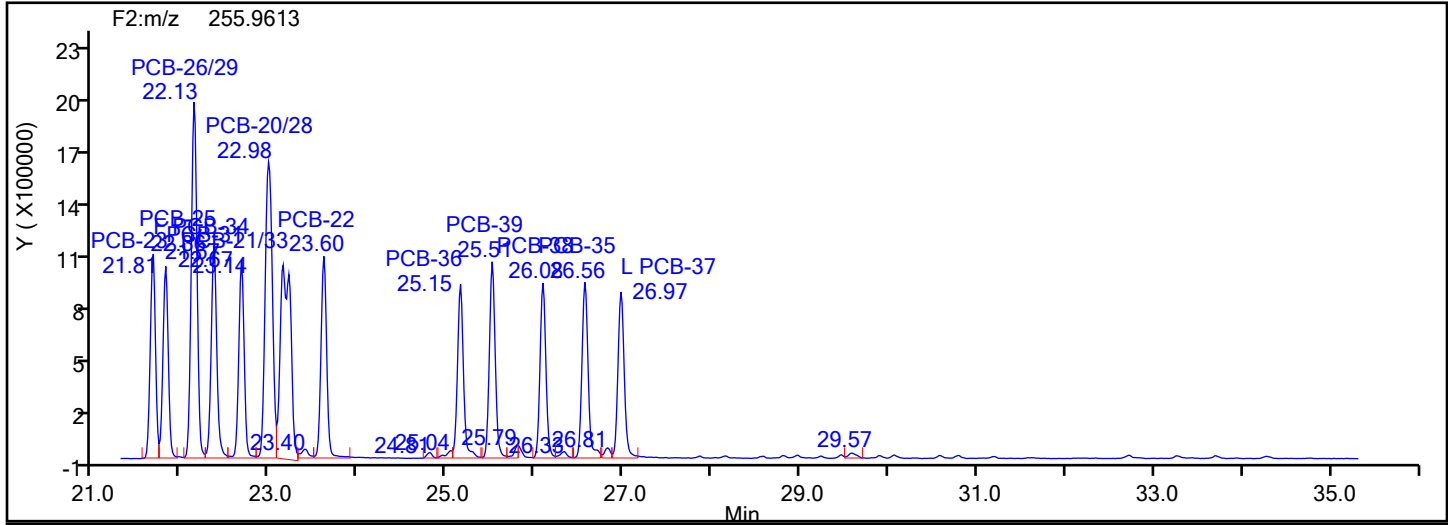
Worklist#: 88219

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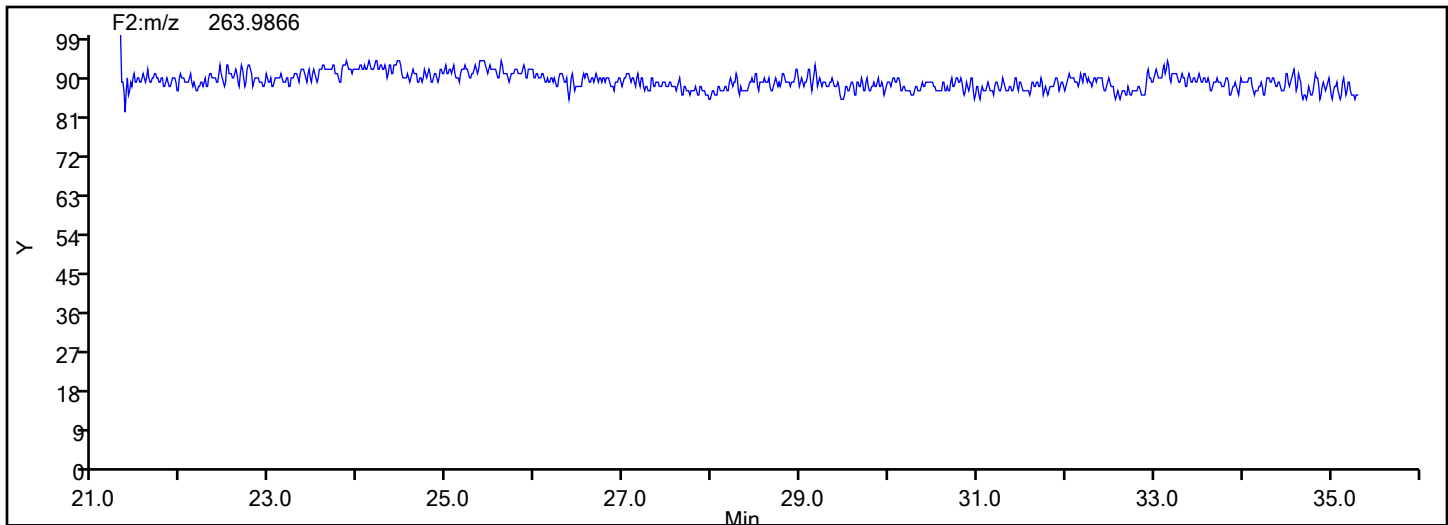
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass





## Eurofins Knoxville

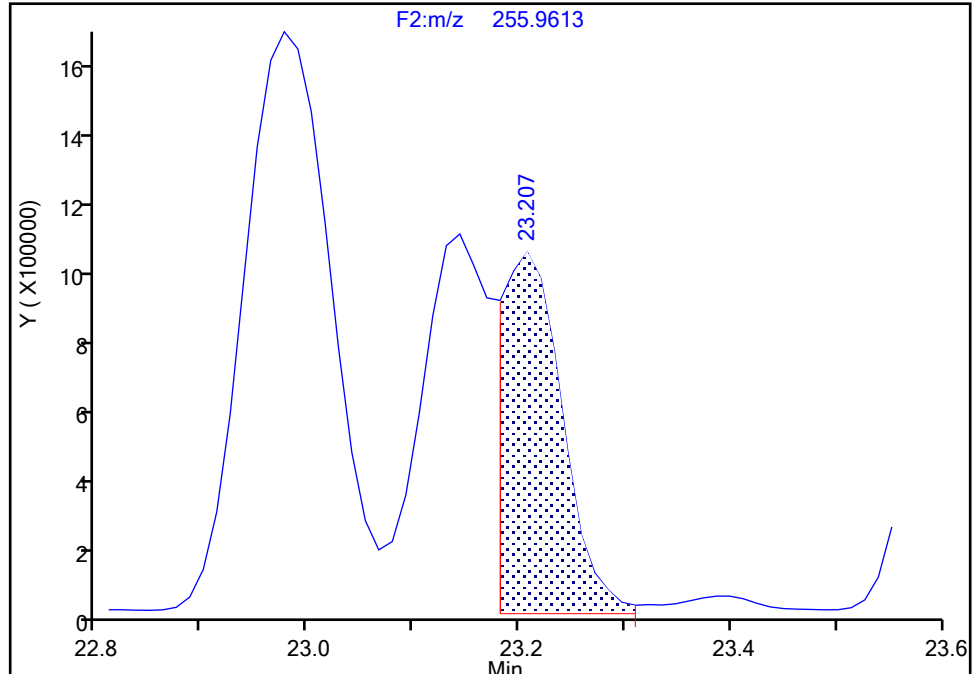
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Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

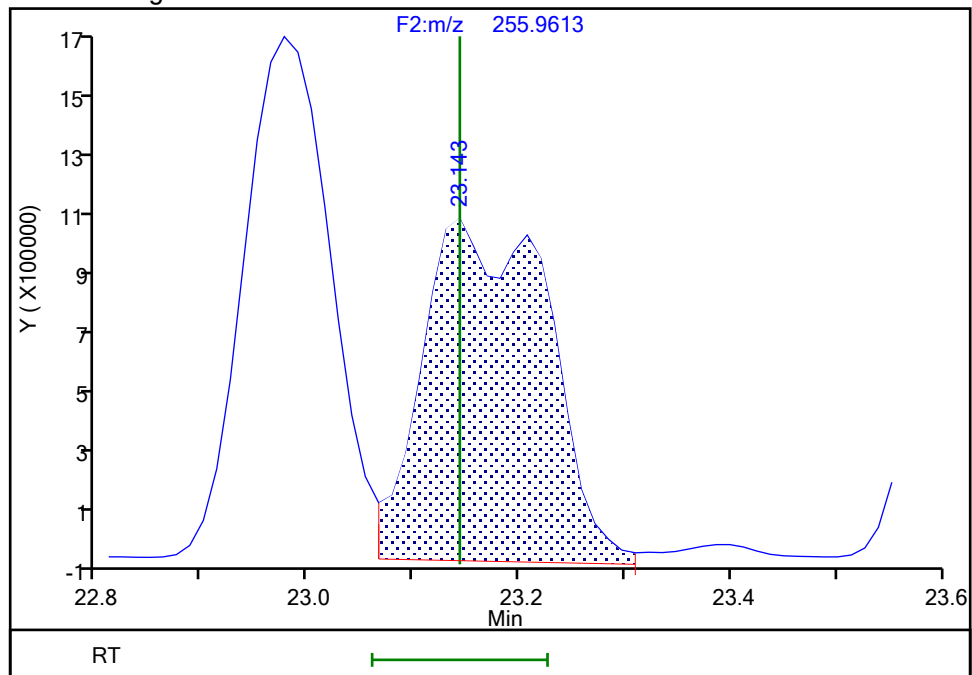
RT: 23.21  
Area: 3762388  
Amount: 38.149171  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.14  
Area: 8617433  
Amount: 80.267404  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:55:05 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

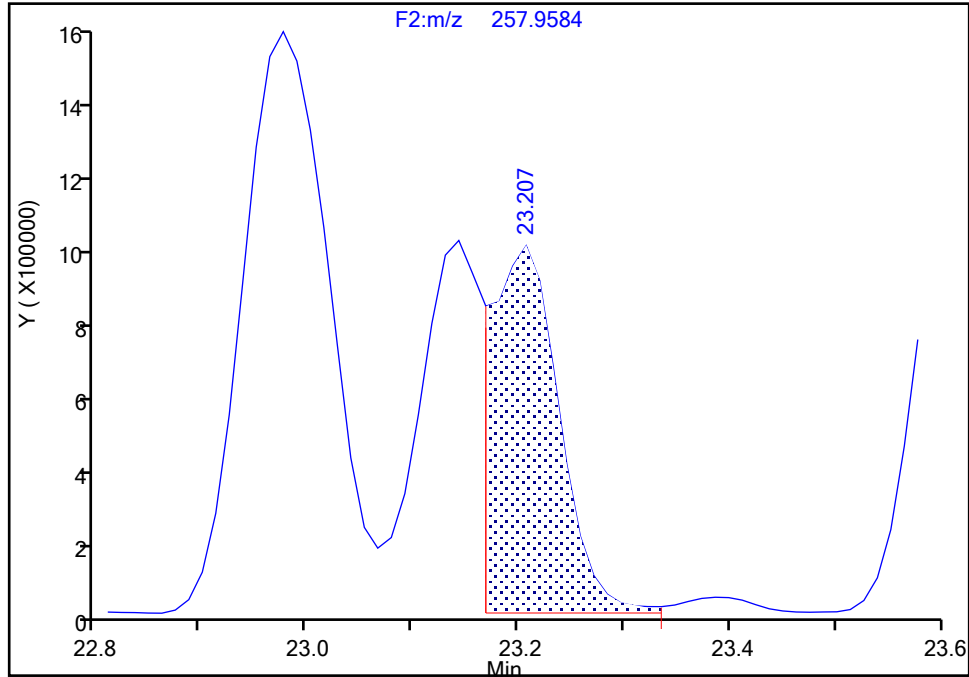
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

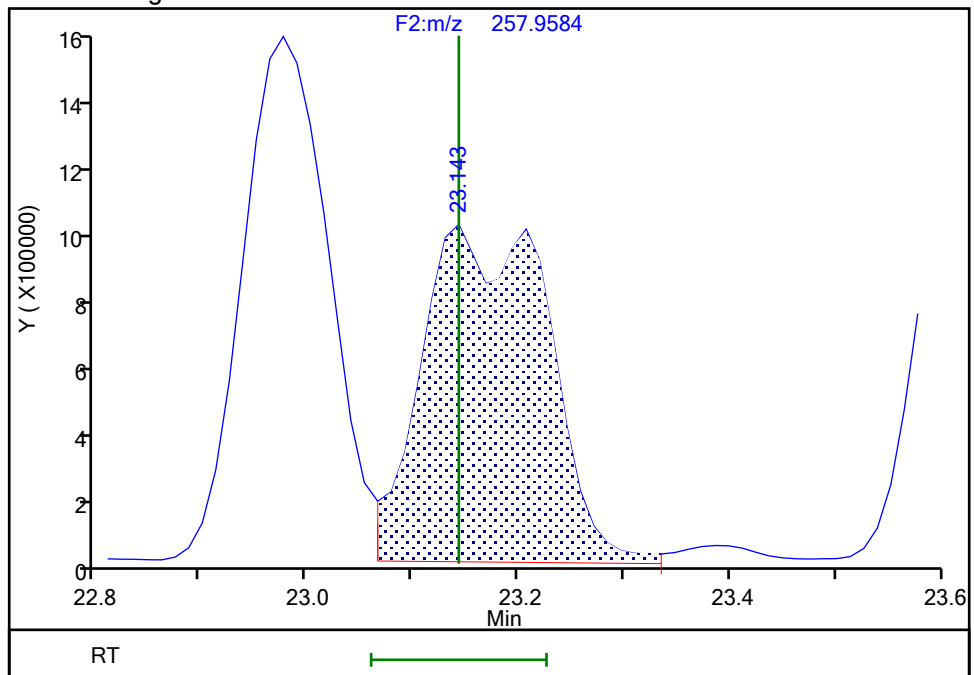
RT: 23.21  
Area: 4333020  
Amount: 38.149171  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.14  
Area: 8415634  
Amount: 80.267404  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:55:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-F-2024-05000  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

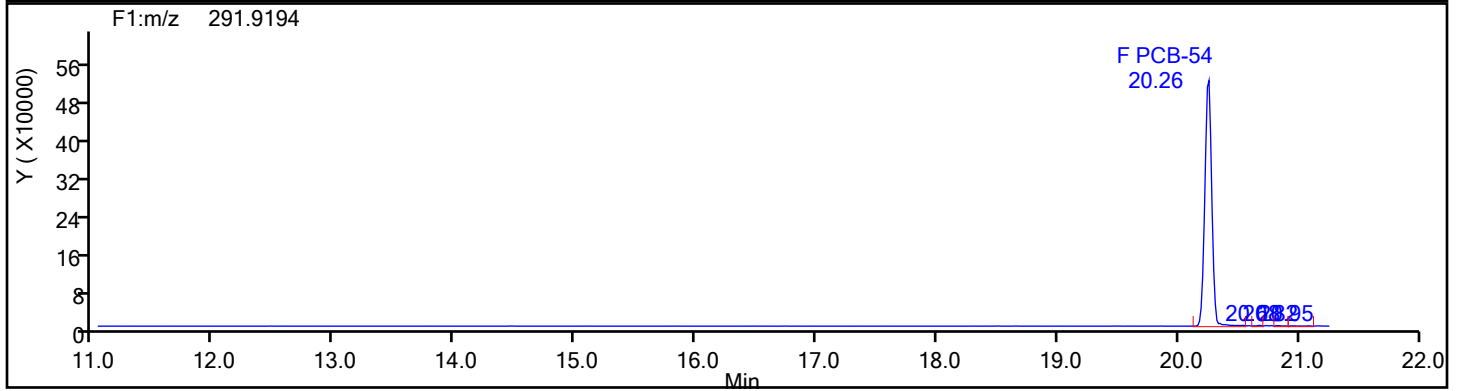
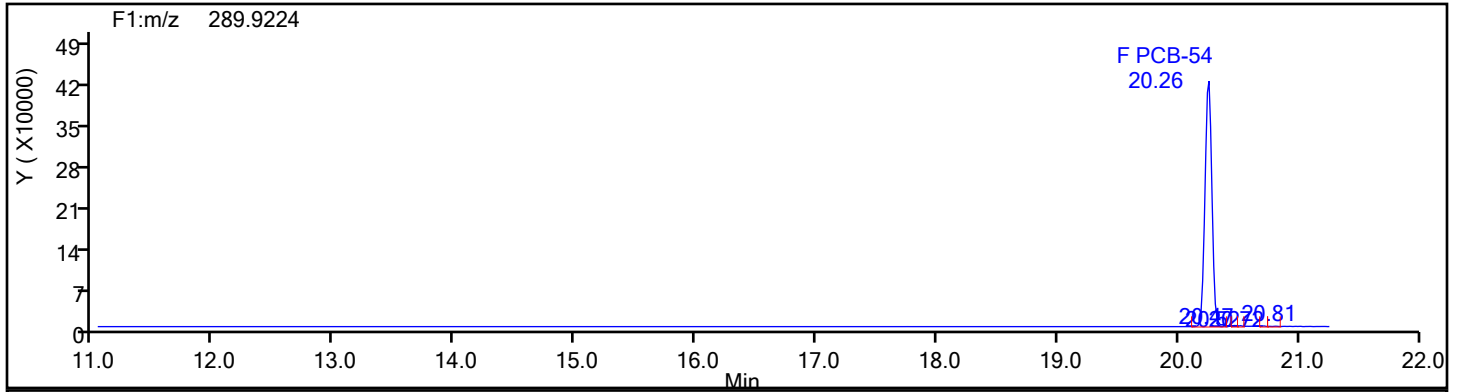
Worklist#: 88219

Sample Line#: 1

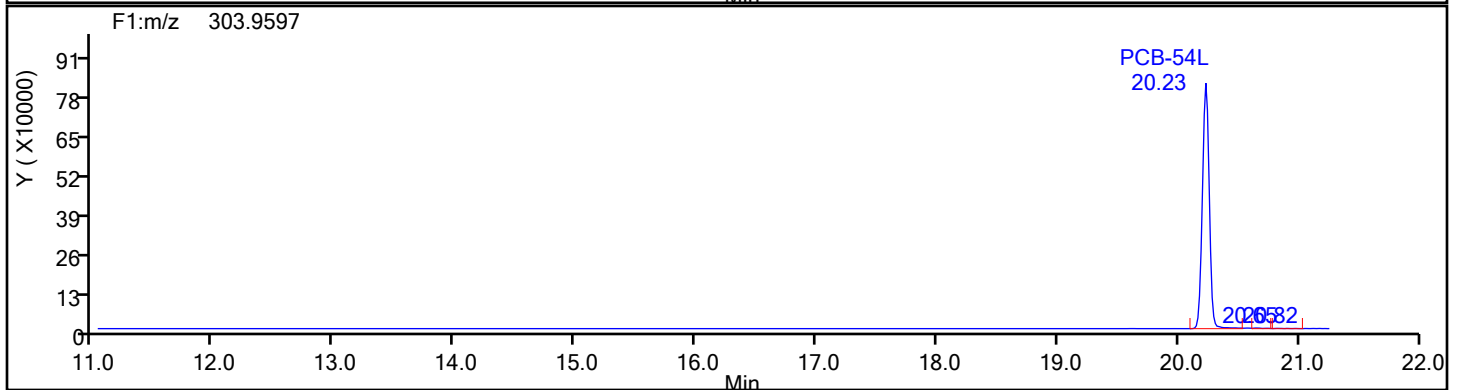
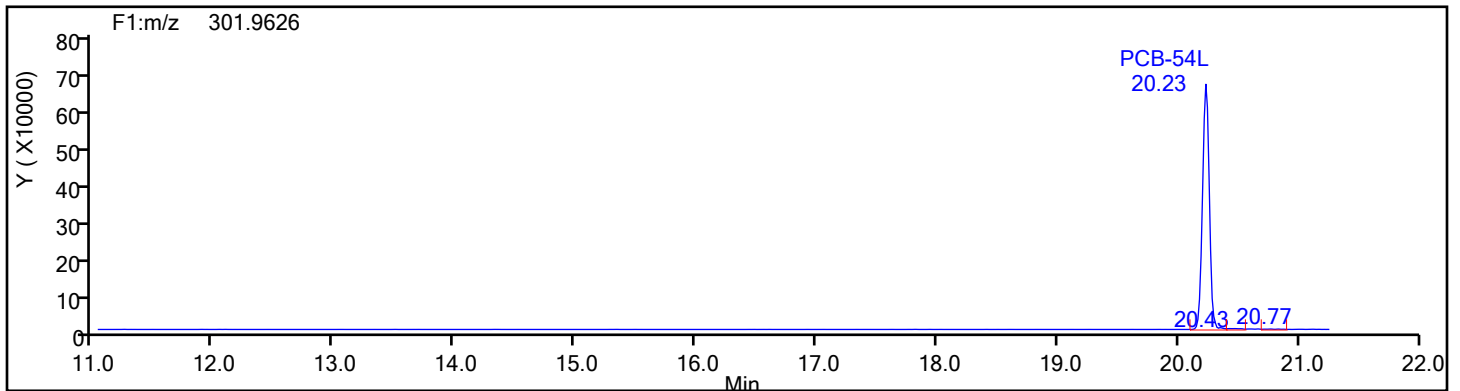
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

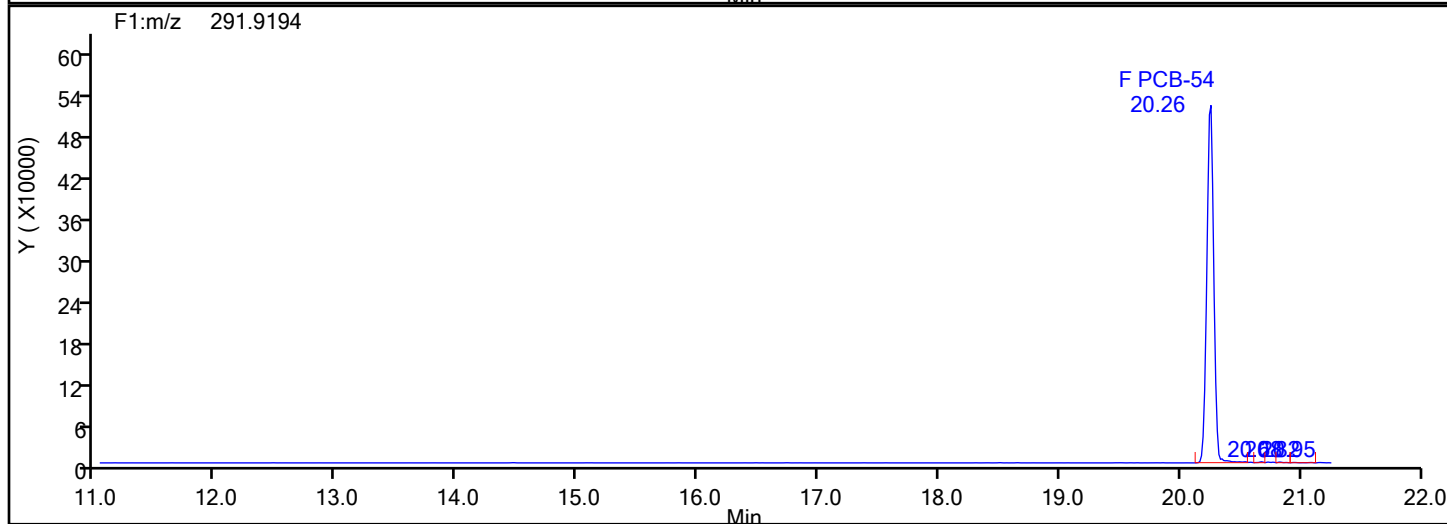
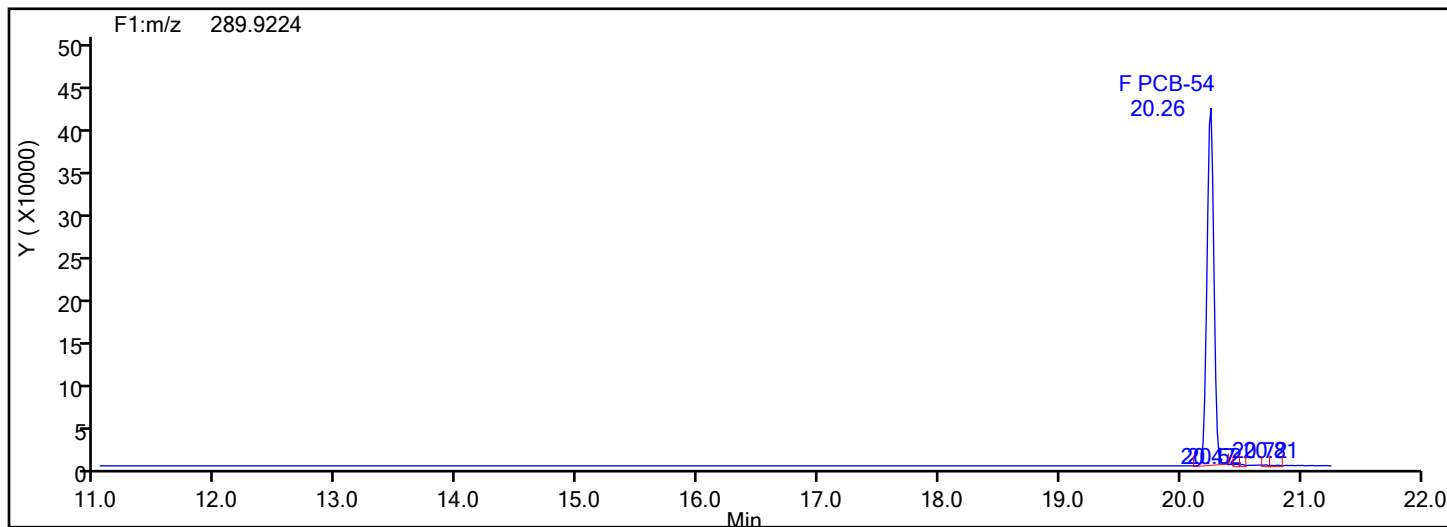
Worklist#: 88219

Sample Line#: 1

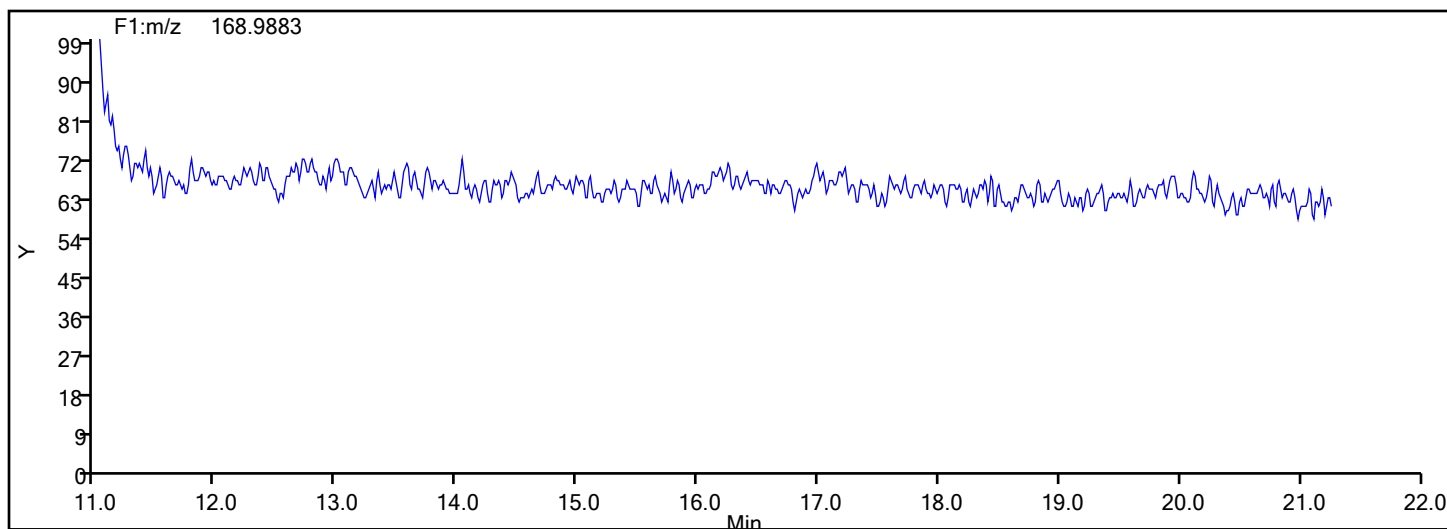
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



Chrom Revision: 2.3 26-Jun-2024 16:13:32

Column Dia: 0.25 mm

F2:m/z 303.9597

Y (X100000)

22.38

PCB-52L  
24.78

25.71

31.61

PCB-79L  
32.68

PCB-81L  
33.68

PCB-77L  
34.25

Min

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

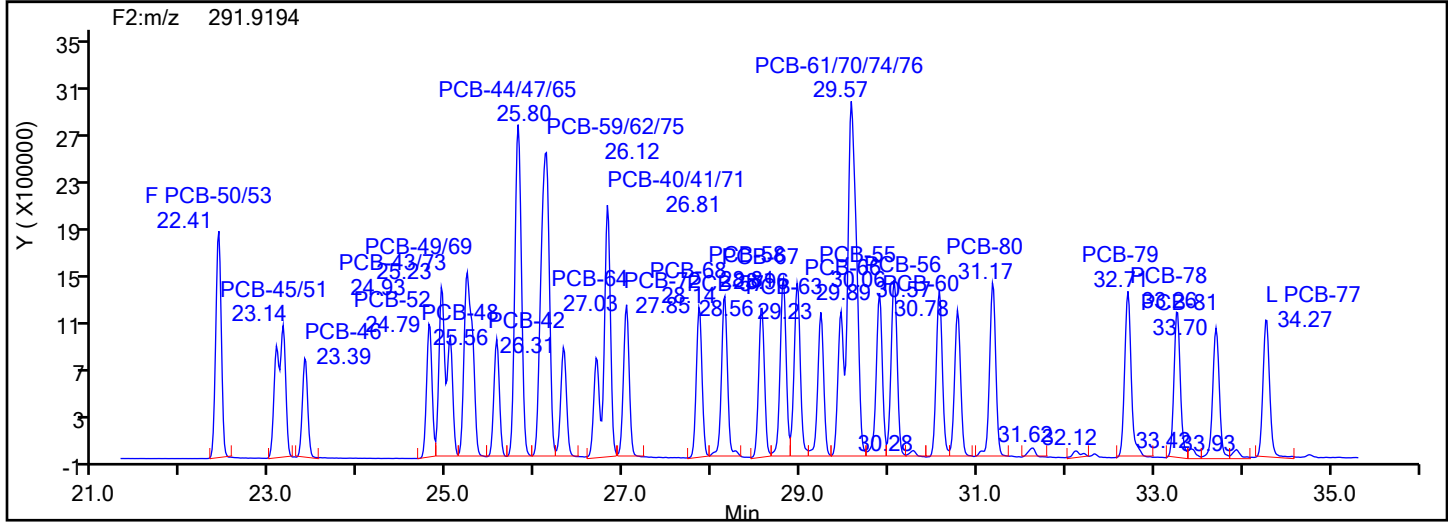
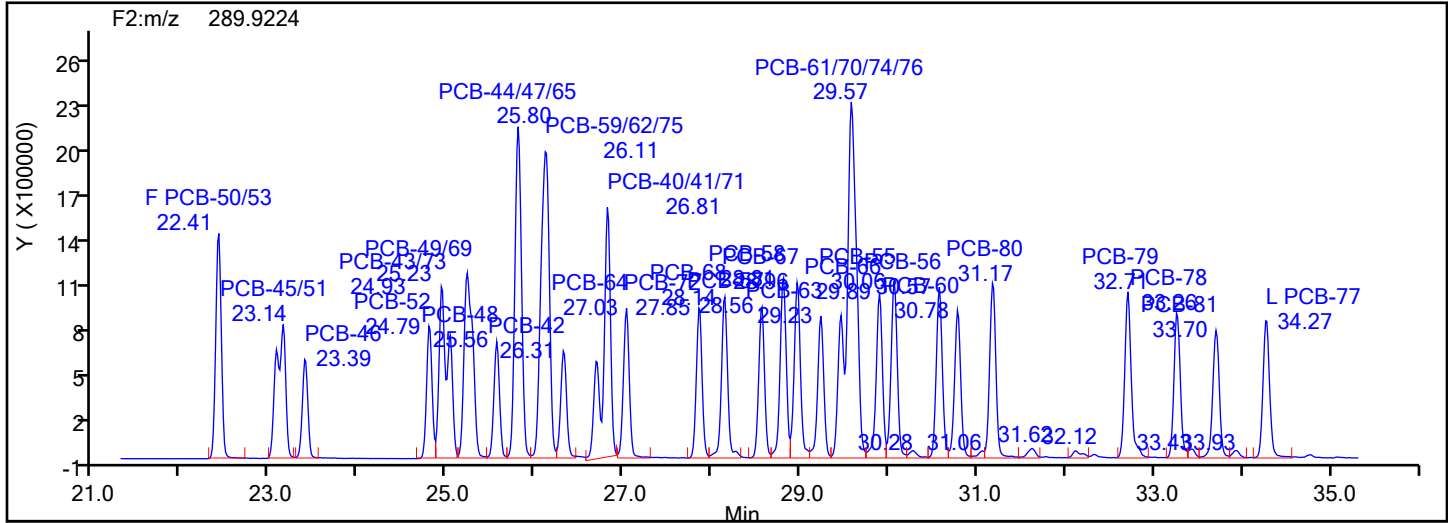
Worklist#: 88219

Sample Line#: 1

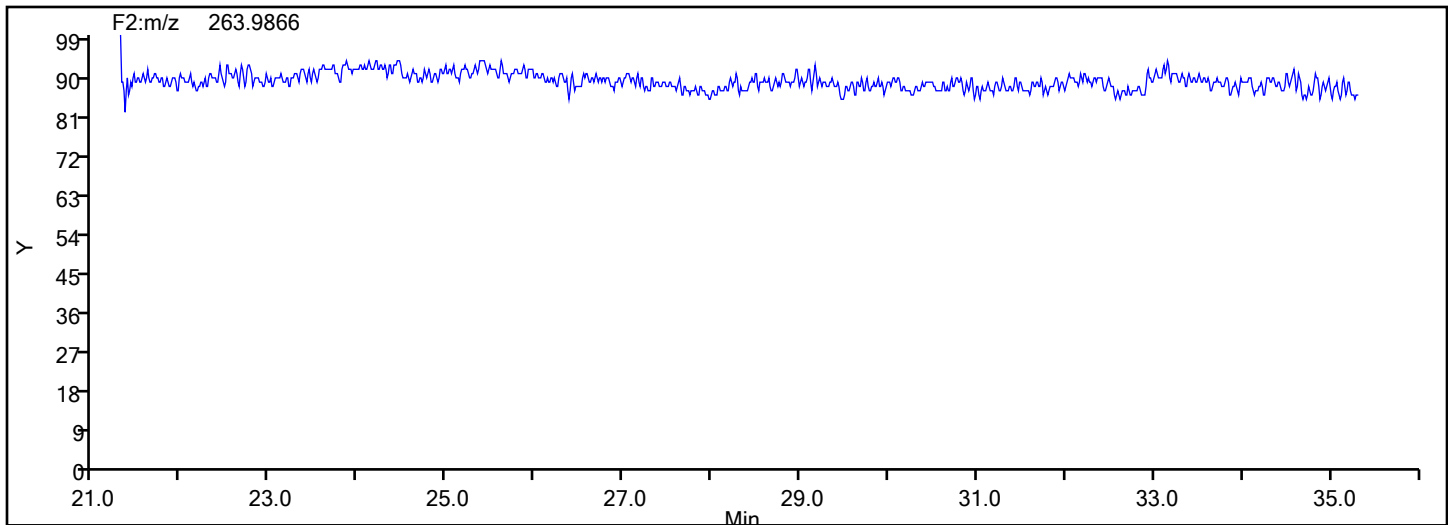
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

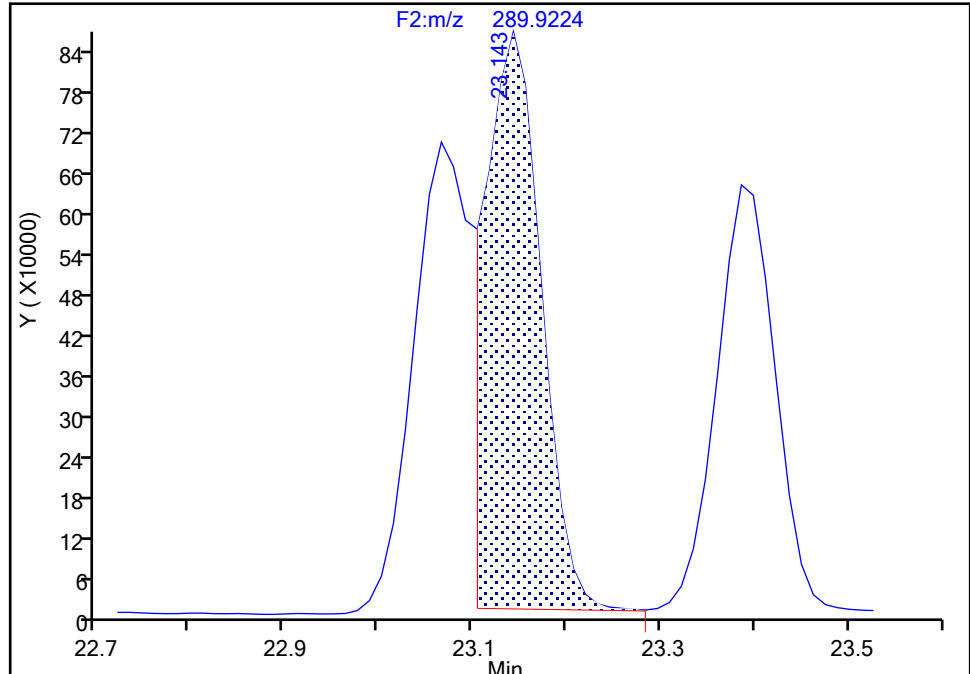
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-45/51, CAS: STL01804

Signal: 1

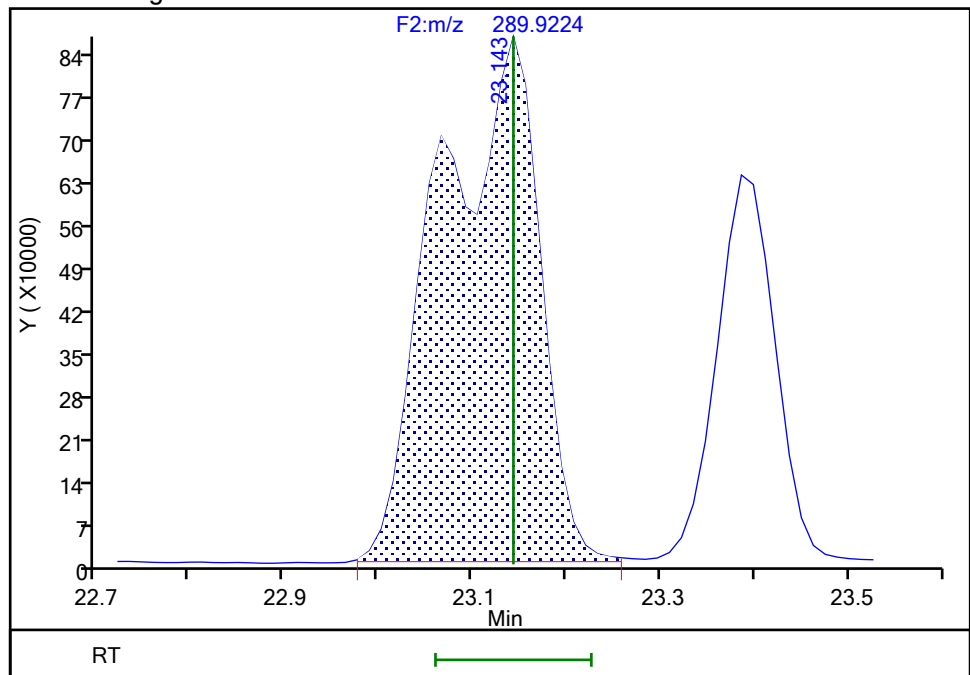
RT: 23.14  
Area: 3436551  
Amount: 47.443795  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.14  
Area: 6355701  
Amount: 88.962771  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:55:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

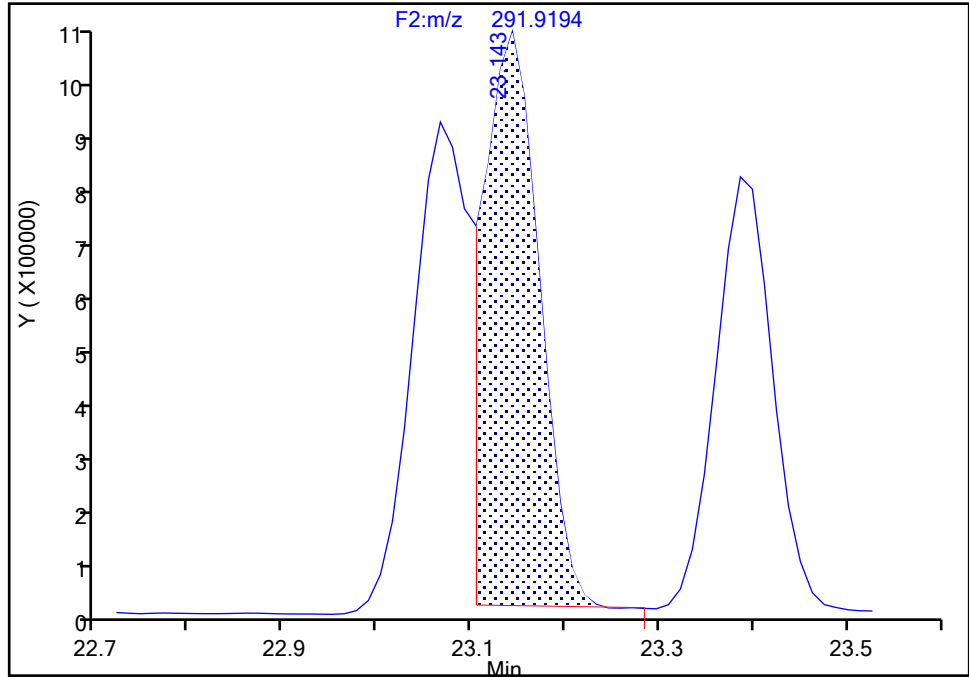
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Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 2

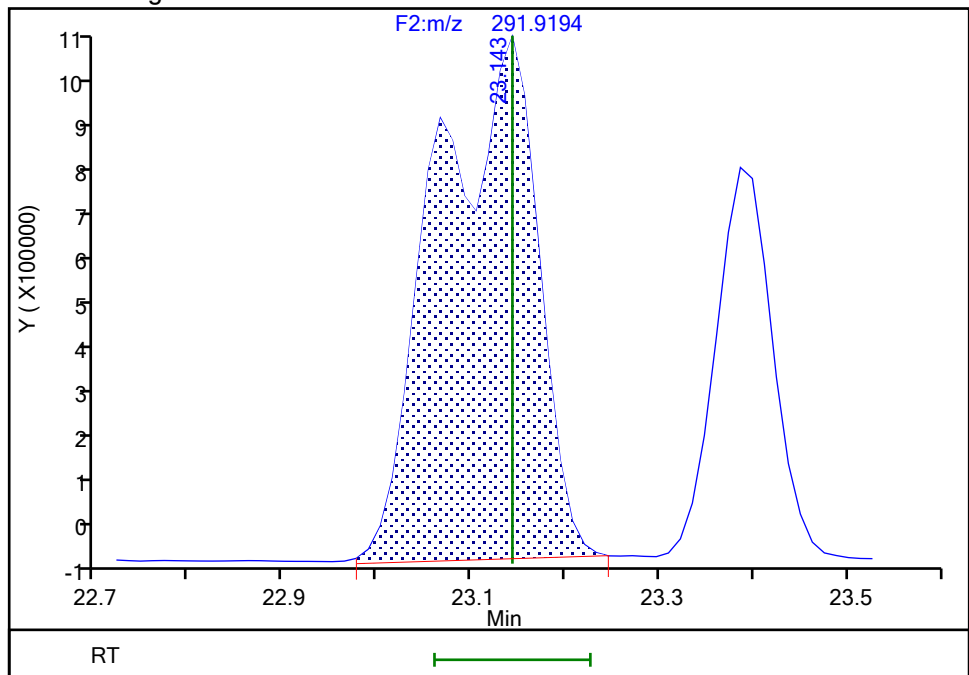
RT: 23.14  
Area: 4302758  
Amount: 47.443795  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.14  
Area: 8156426  
Amount: 88.962771  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:55:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

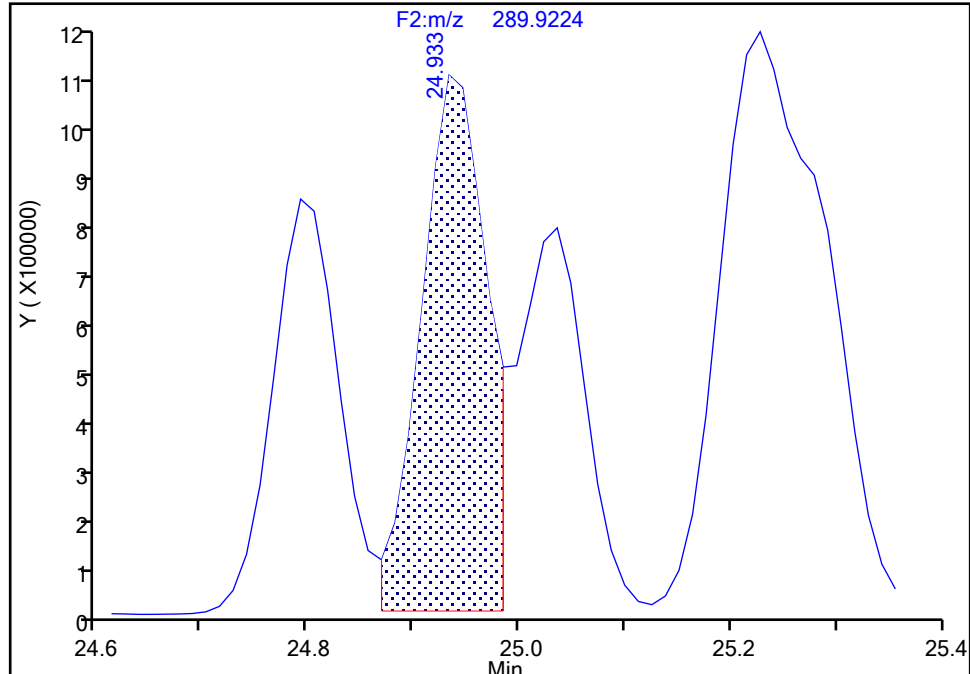
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Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 1

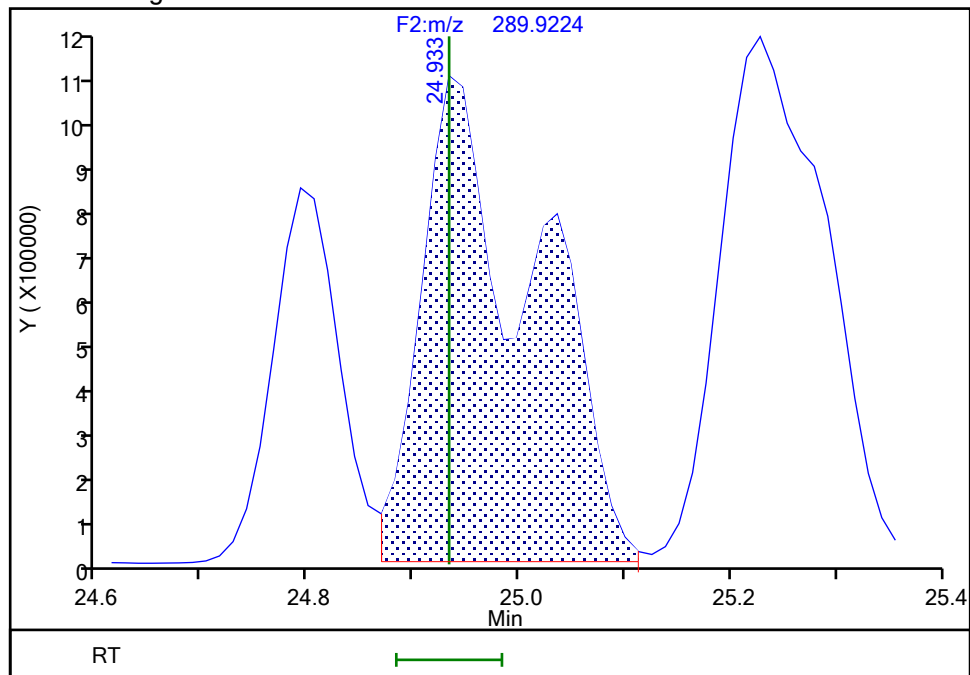
RT: 24.93  
Area: 4650279  
Amount: 51.689264  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 8161844  
Amount: 89.913183  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:55:43 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

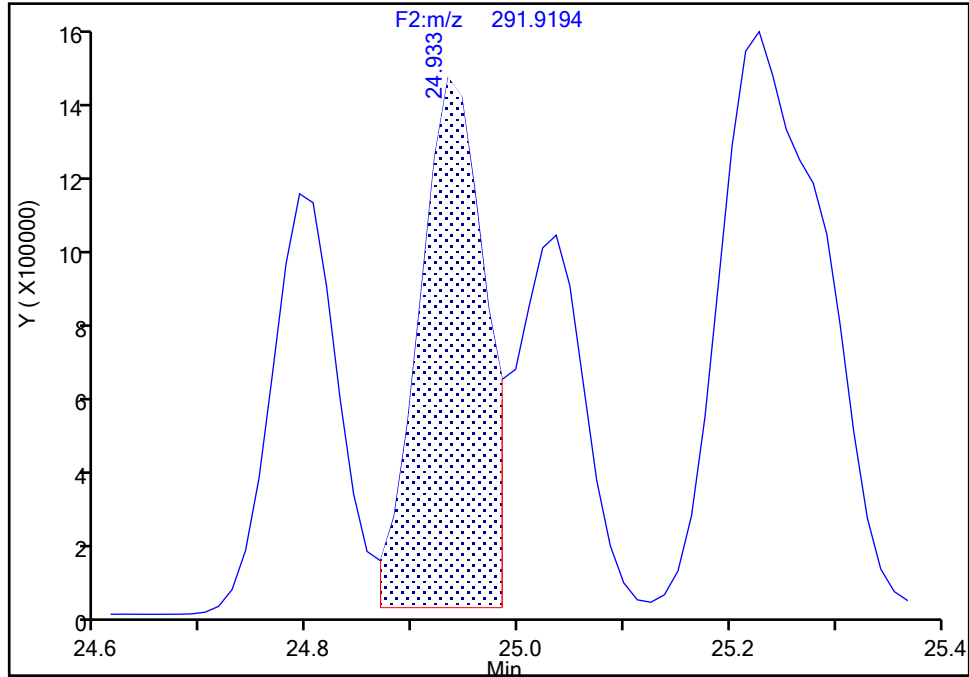
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

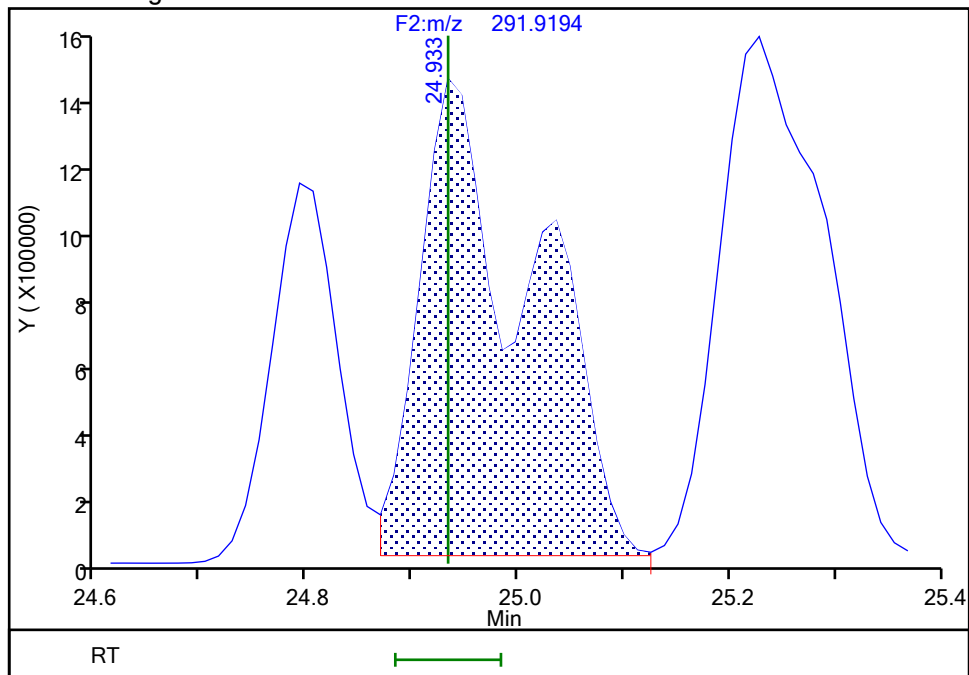
RT: 24.93  
Area: 5892686  
Amount: 51.689264  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 10177584  
Amount: 89.913183  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:55:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

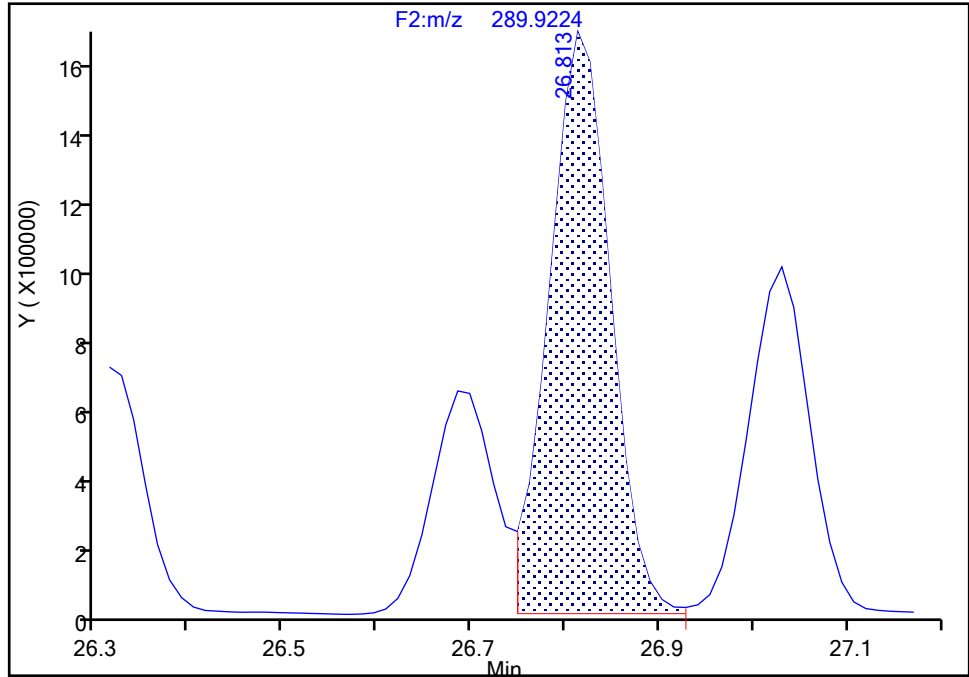
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Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-40/41/71, CAS: STL02292

Signal: 1

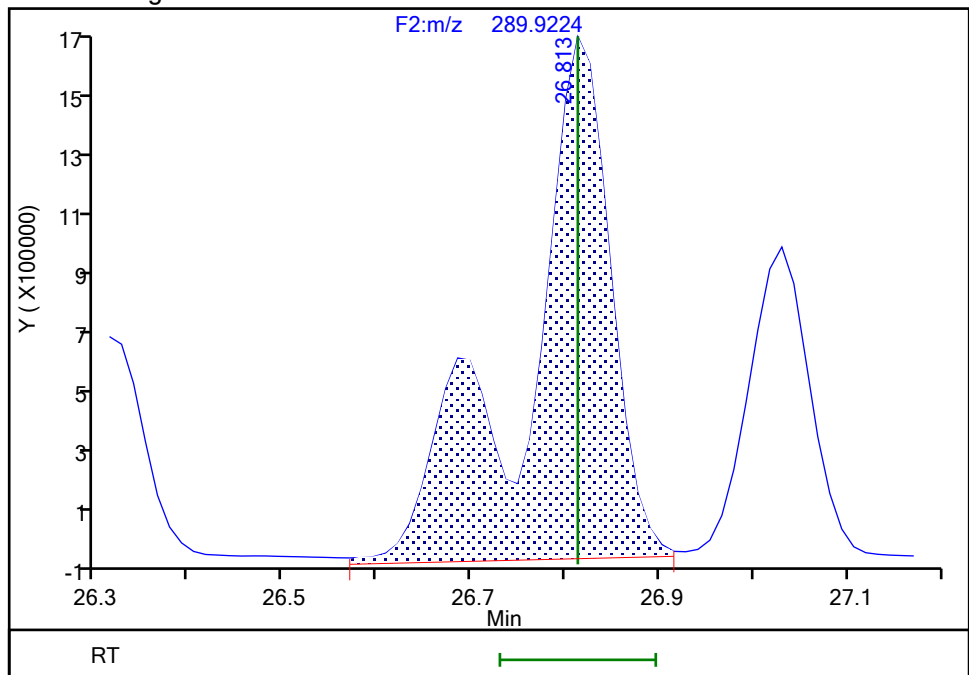
RT: 26.81  
Area: 7307108  
Amount: 94.896762  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.81  
Area: 10242980  
Amount: 133.0401  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:56:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

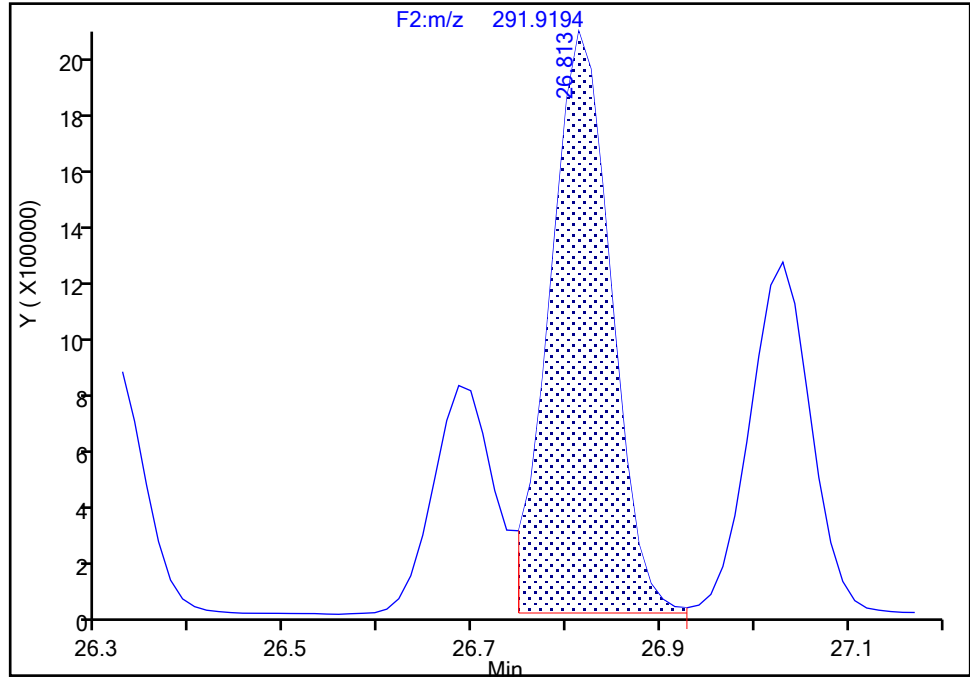
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Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-40/41/71, CAS: STL02292

Signal: 2

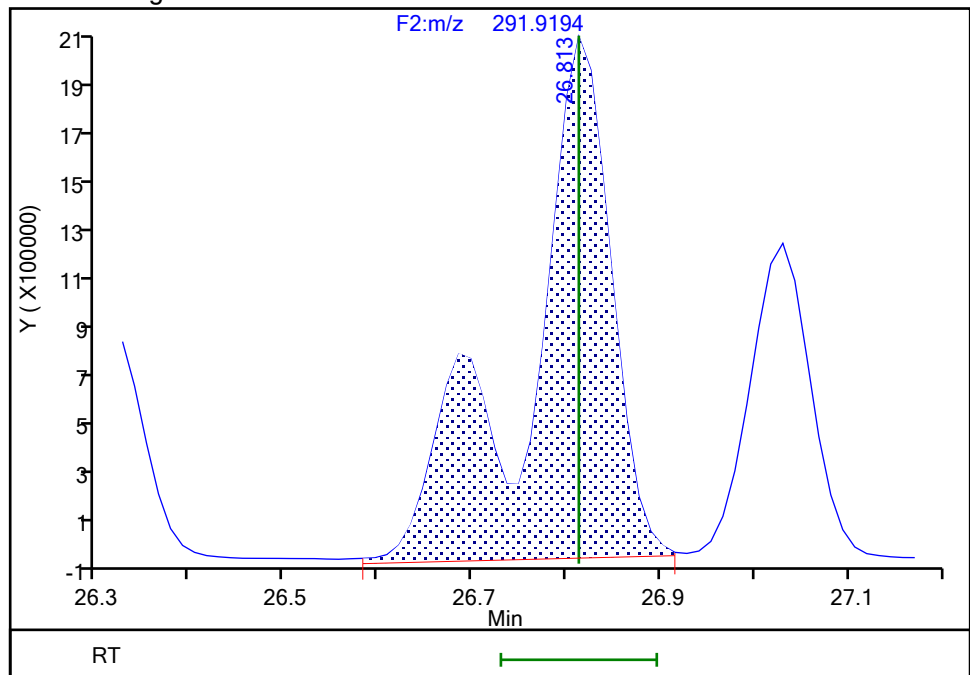
RT: 26.81  
Area: 9295143  
Amount: 94.896762  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.81  
Area: 13032472  
Amount: 133.0401  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:56:21 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

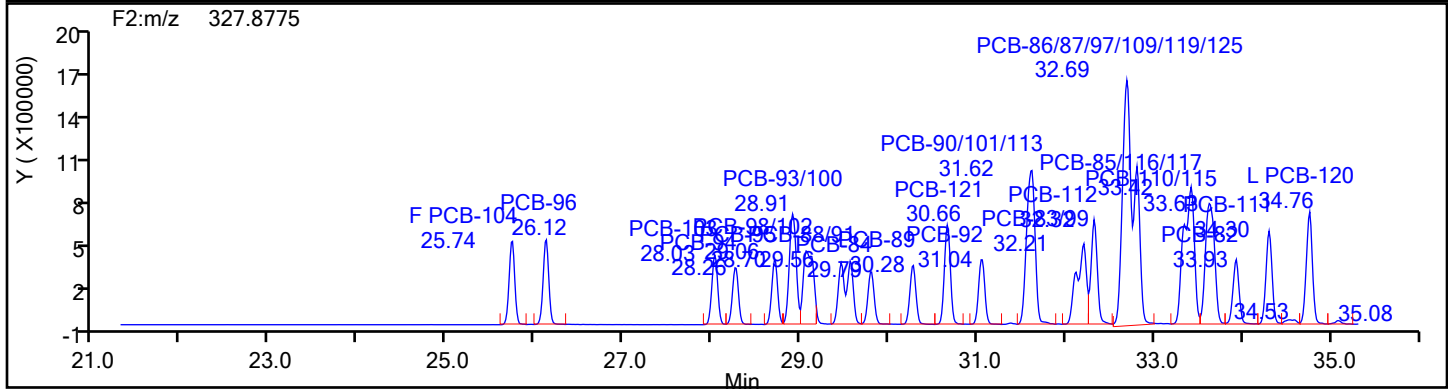
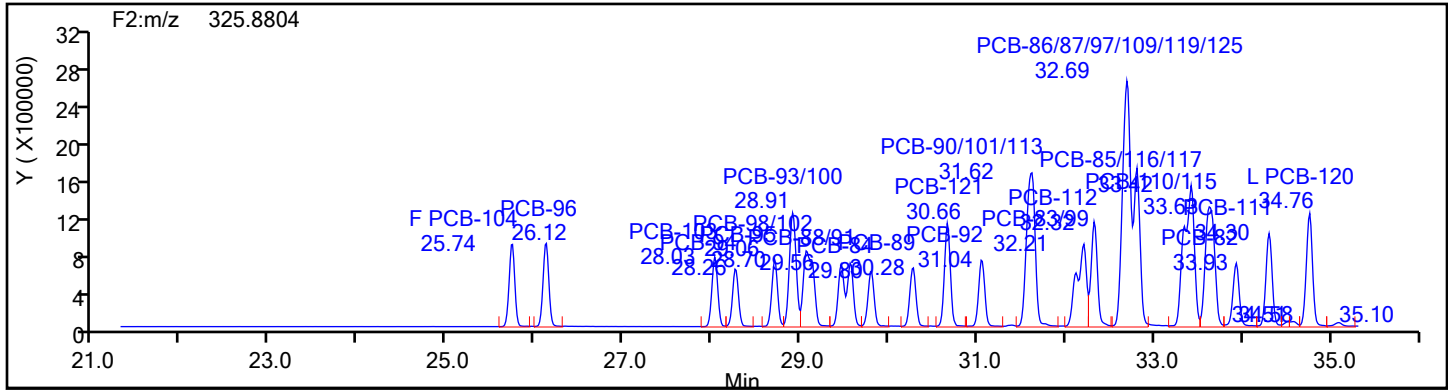
Worklist#: 88219

Sample Line#: 1

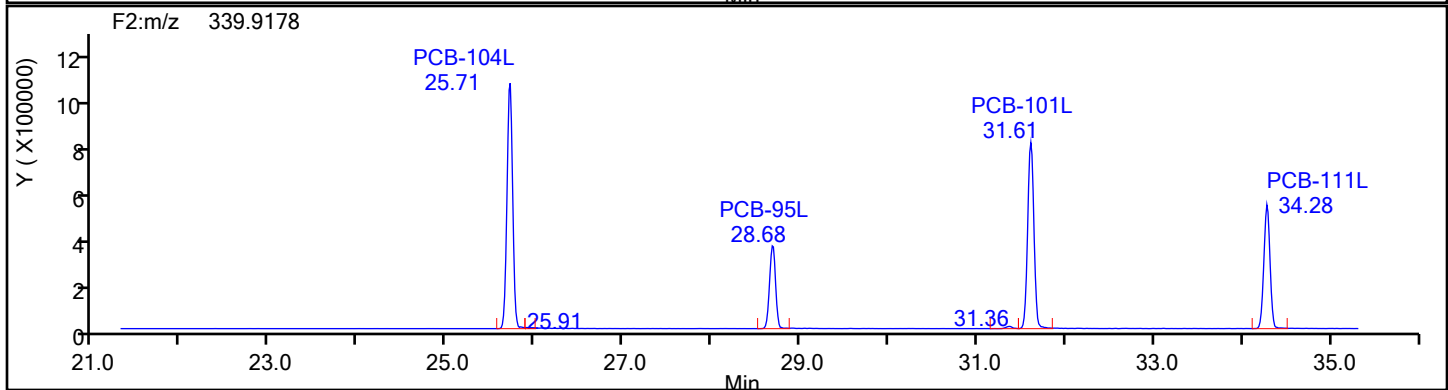
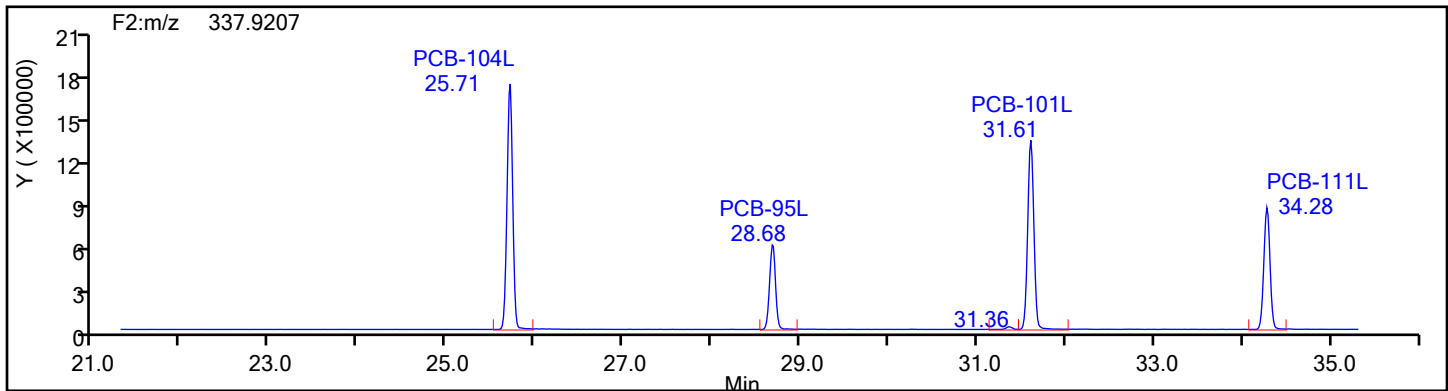
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

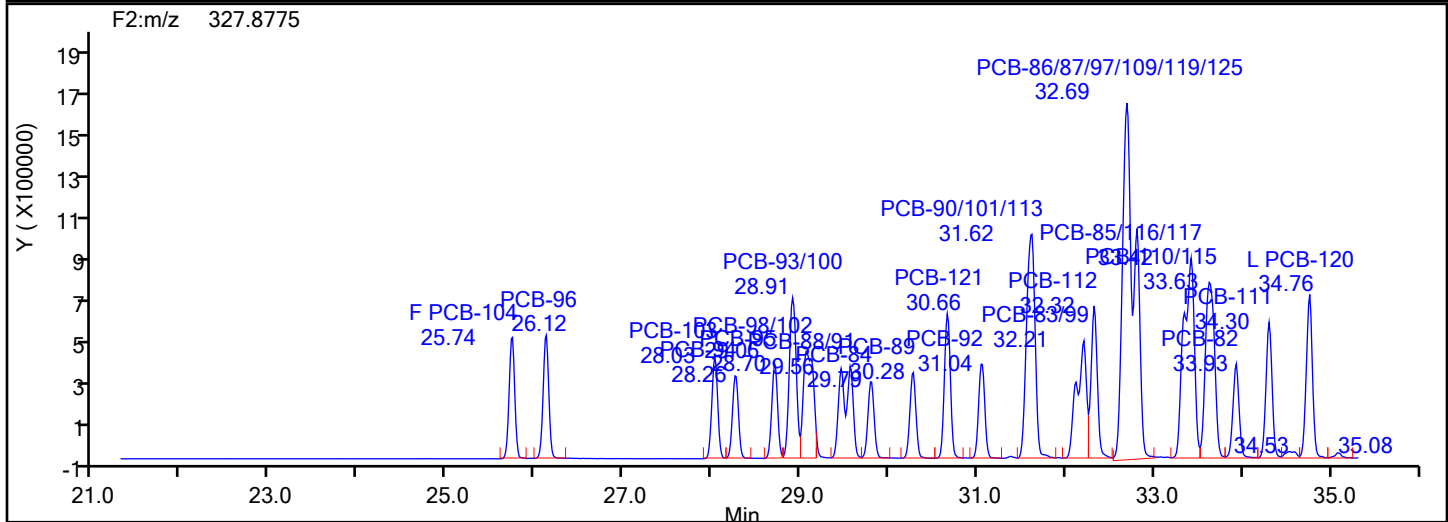
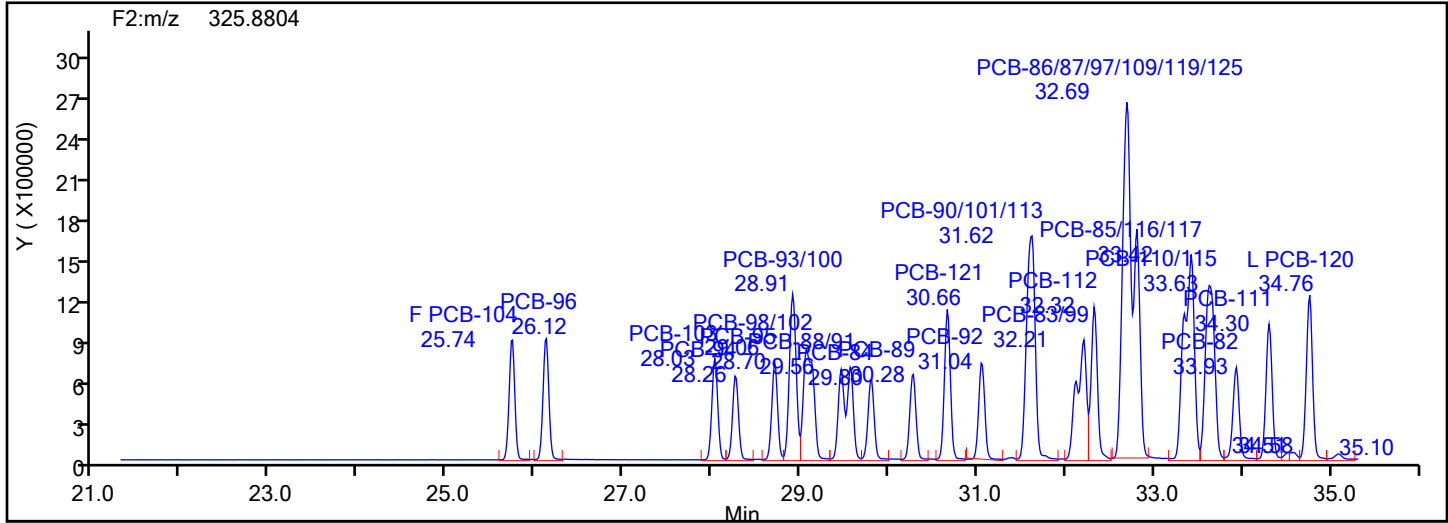


PePCB F2 Standards

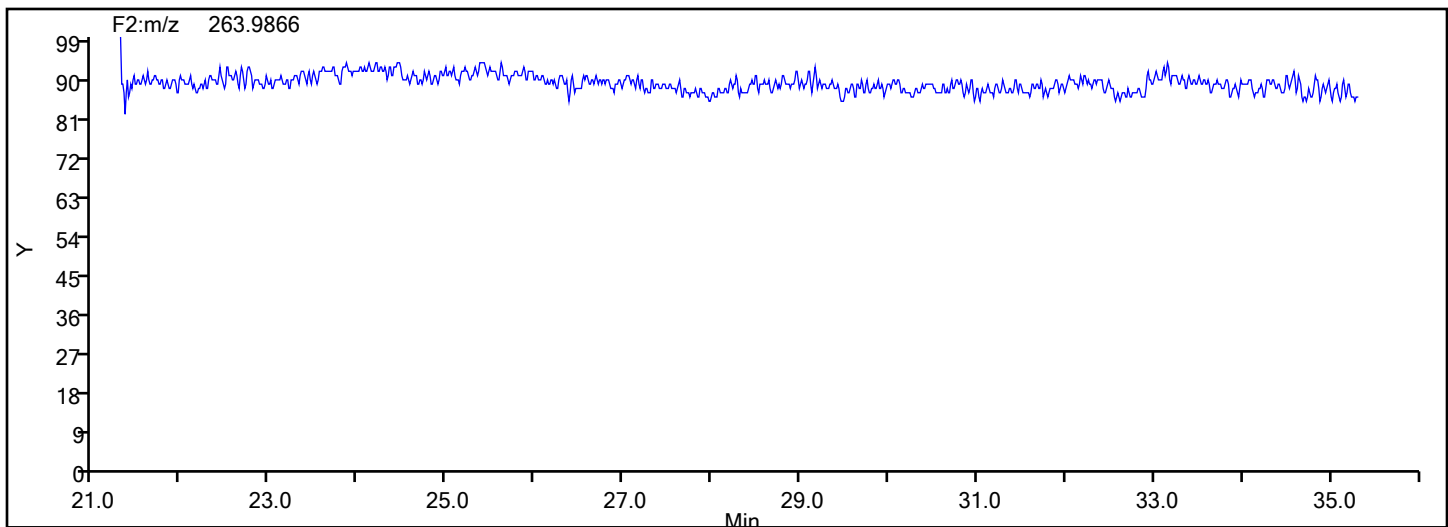


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88219 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

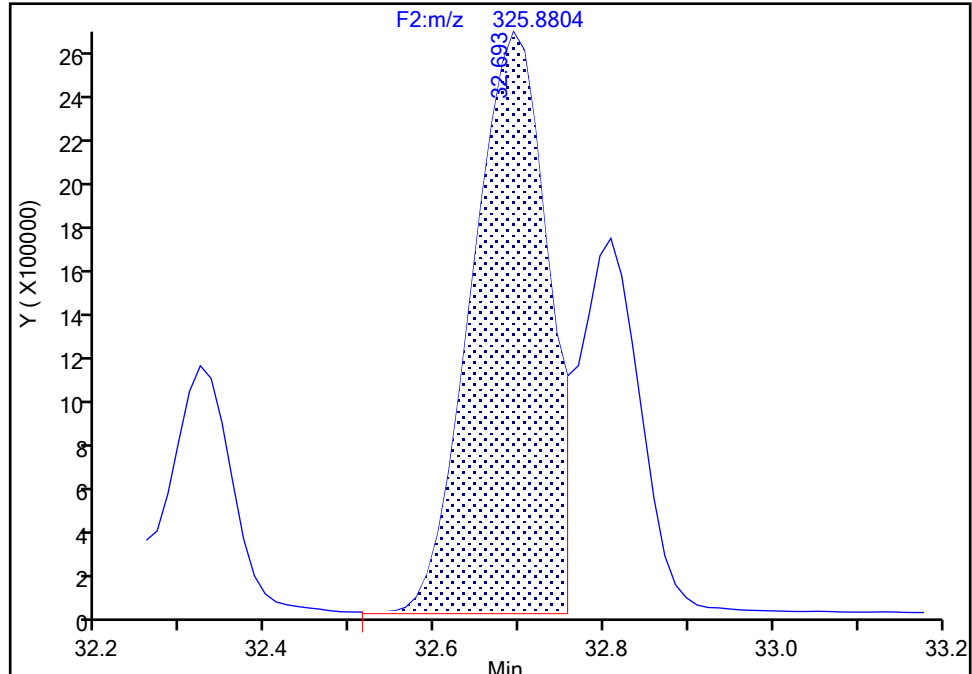
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

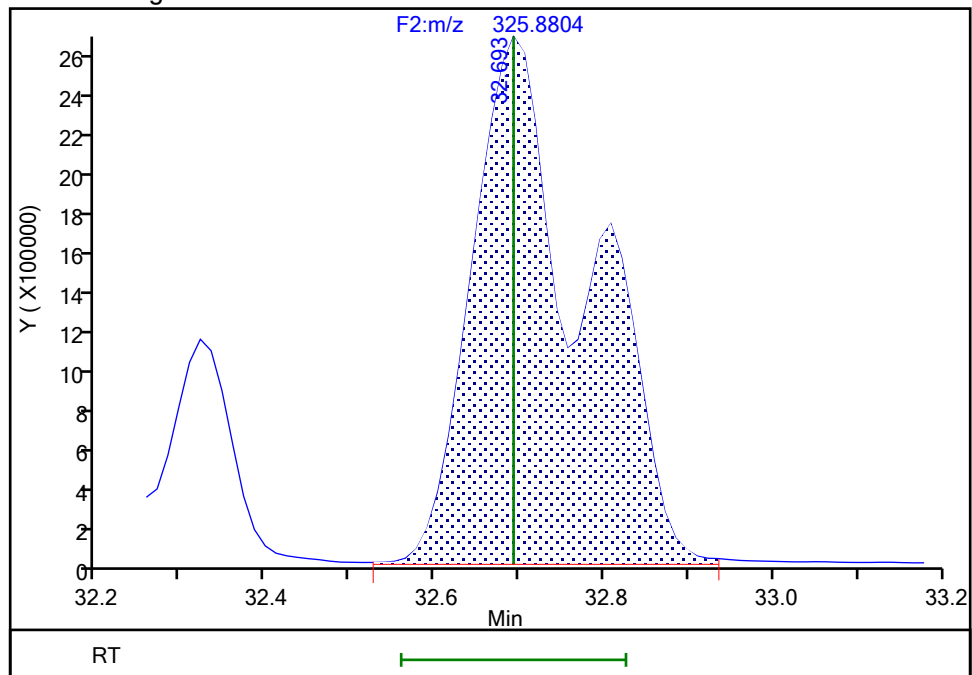
RT: 32.69  
Area: 16169247  
Amount: 206.5952  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.69  
Area: 24412303  
Amount: 313.0299  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:56:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

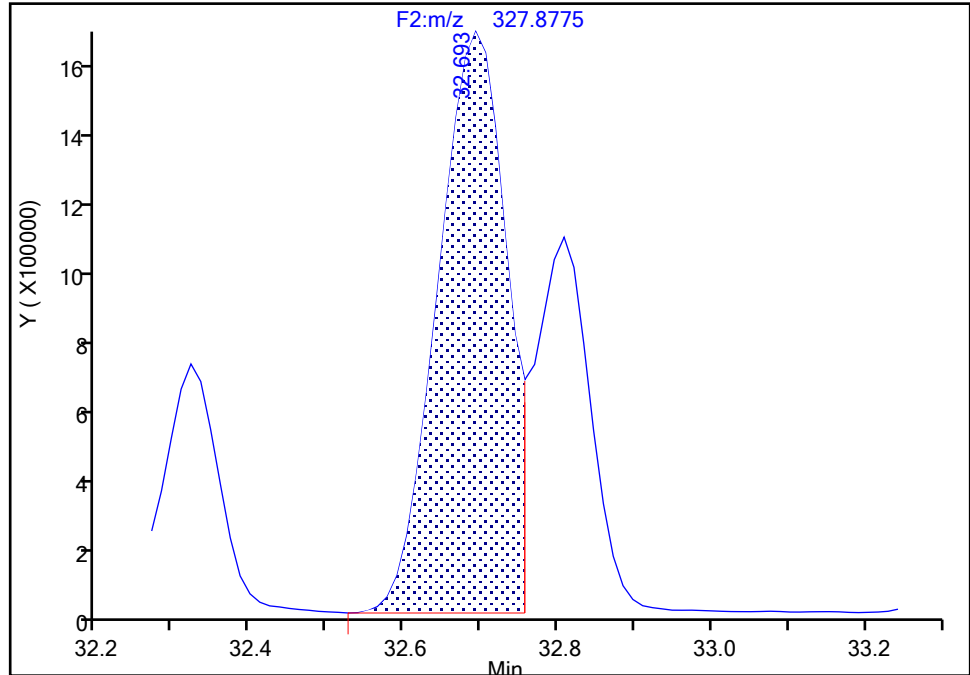
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Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

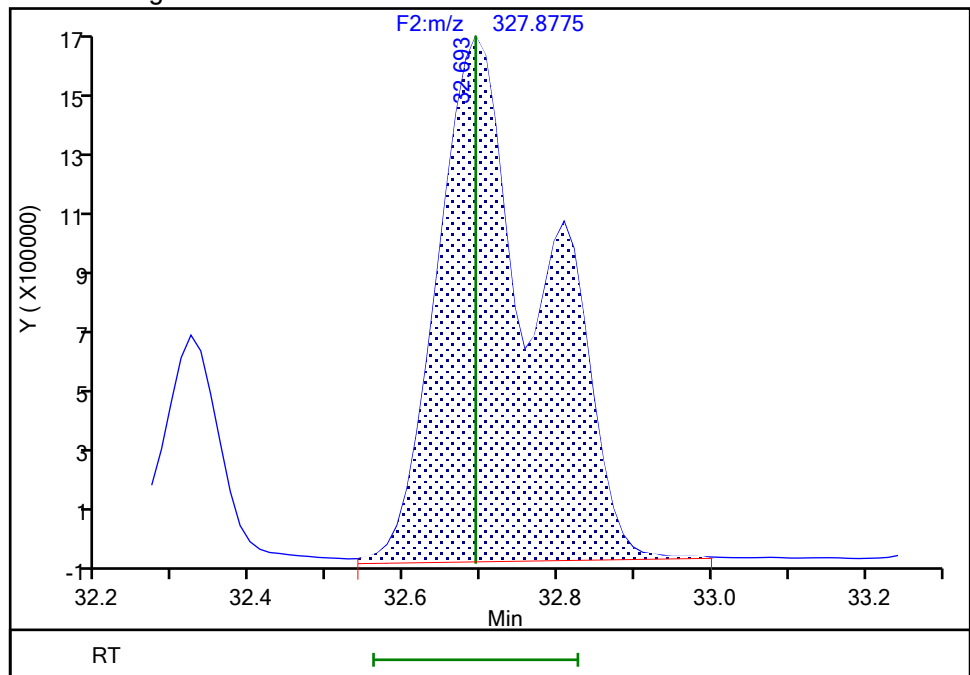
RT: 32.69  
Area: 10205856  
Amount: 206.5952  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.69  
Area: 15550856  
Amount: 313.0299  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:56:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-F-2024-05014  
9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

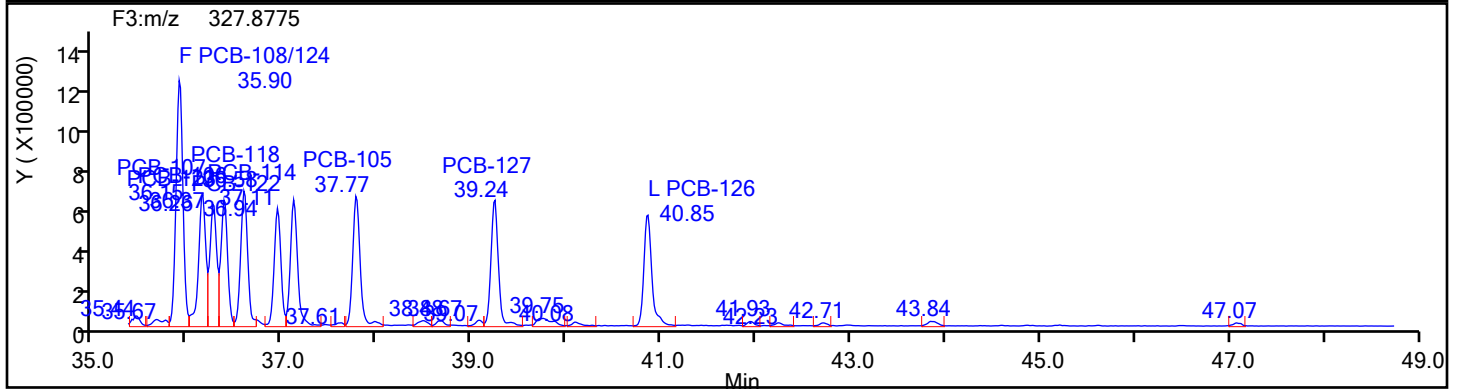
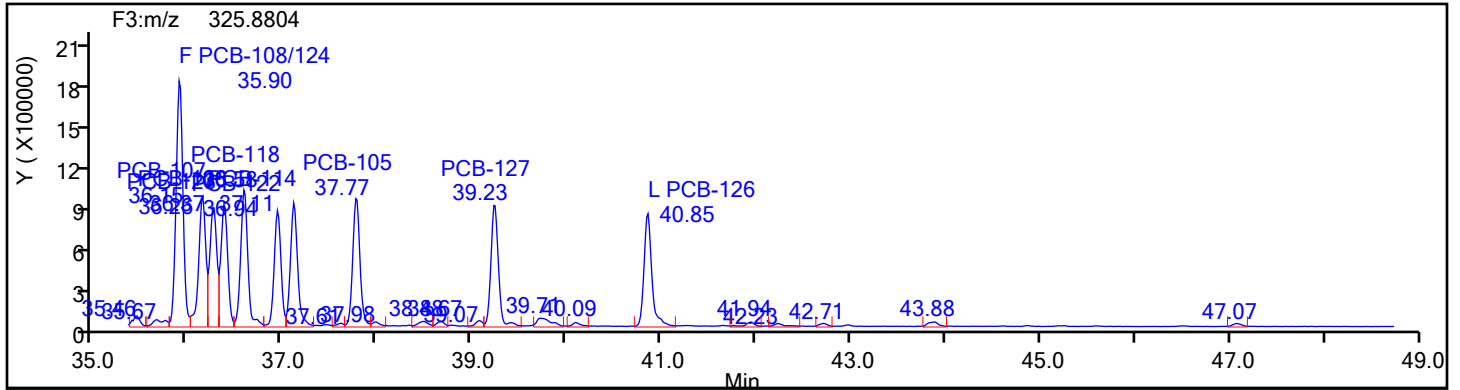
Worklist#: 88219

Sample Line#: 1

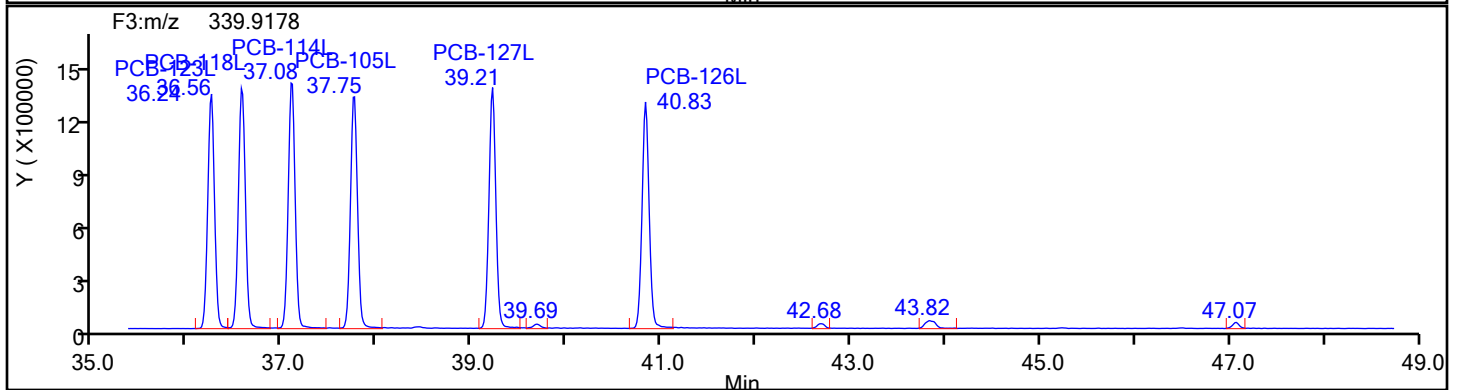
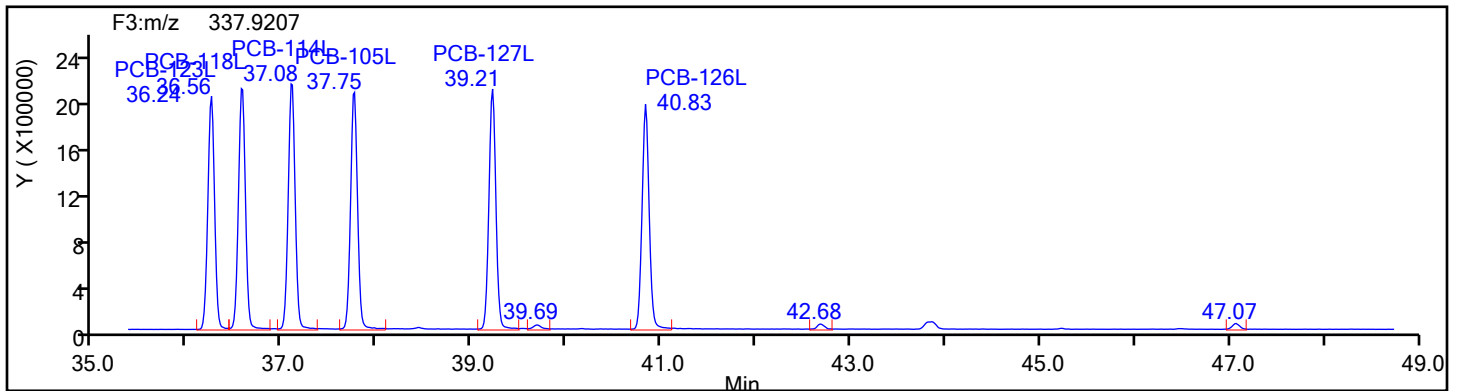
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

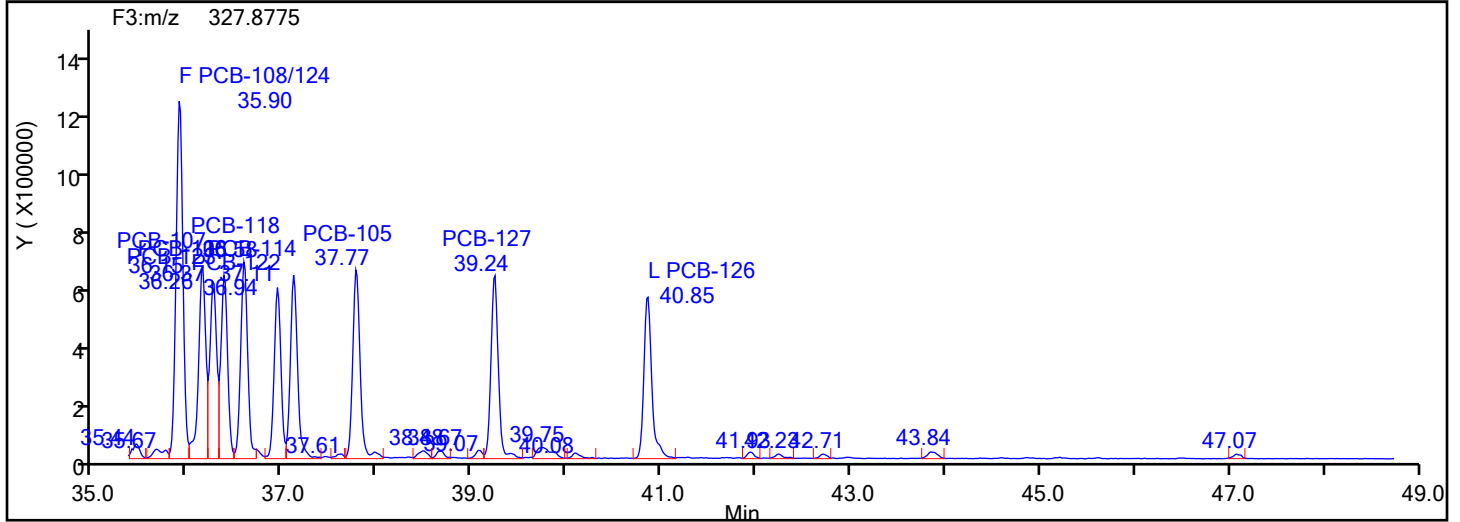
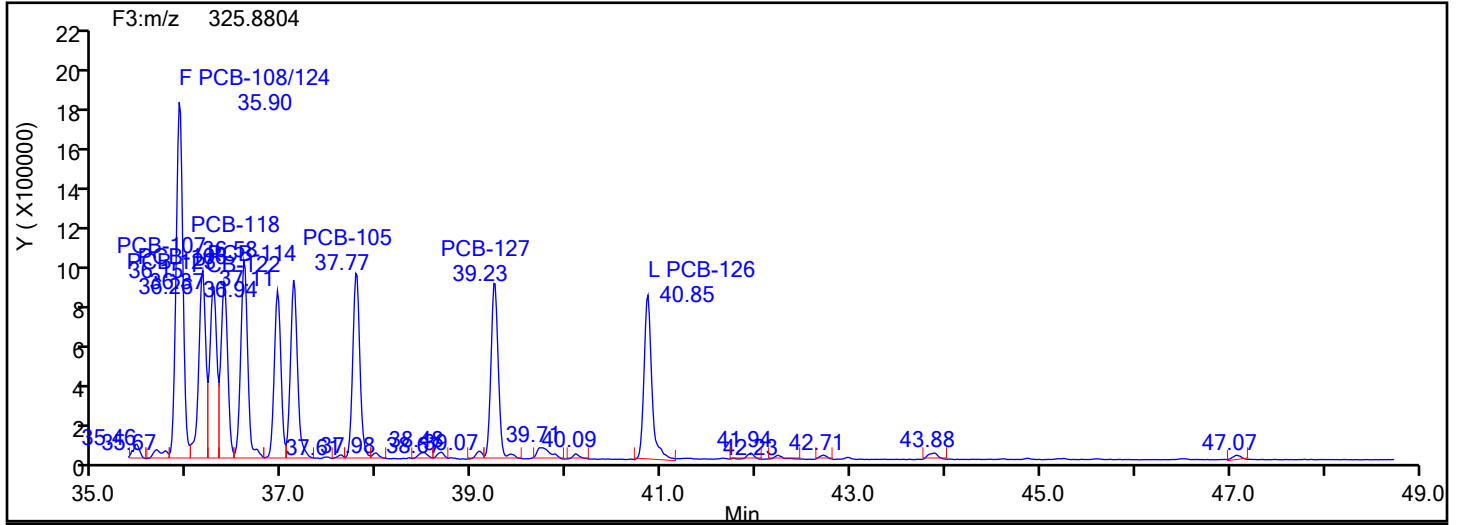
Worklist#: 88219

Sample Line#: 1

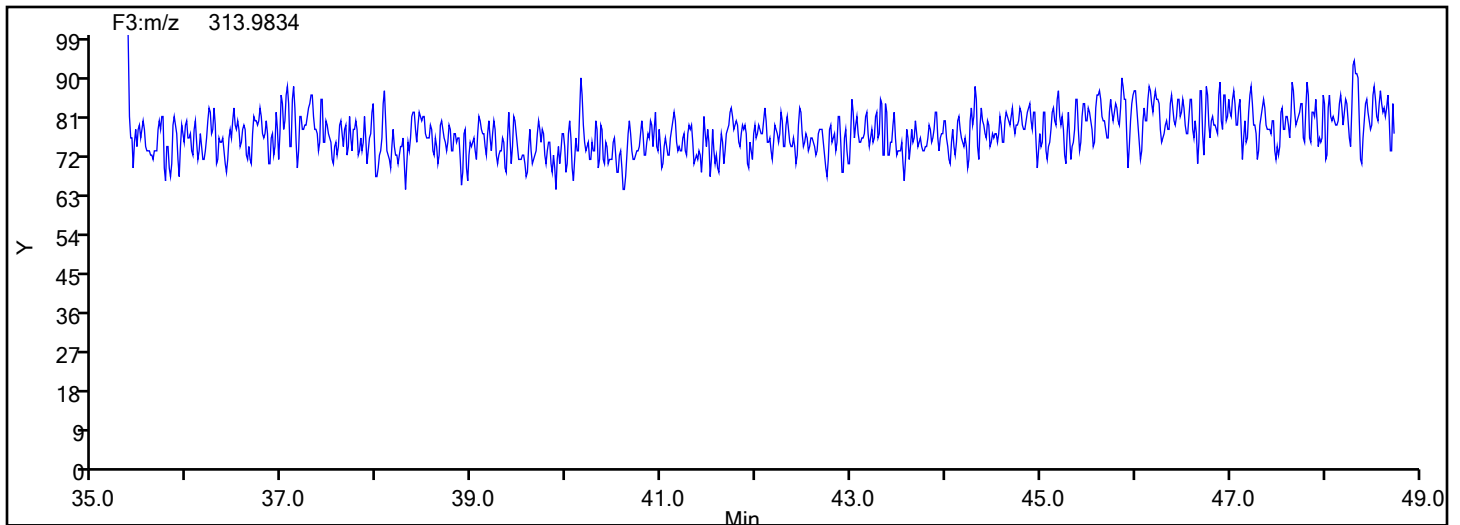
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

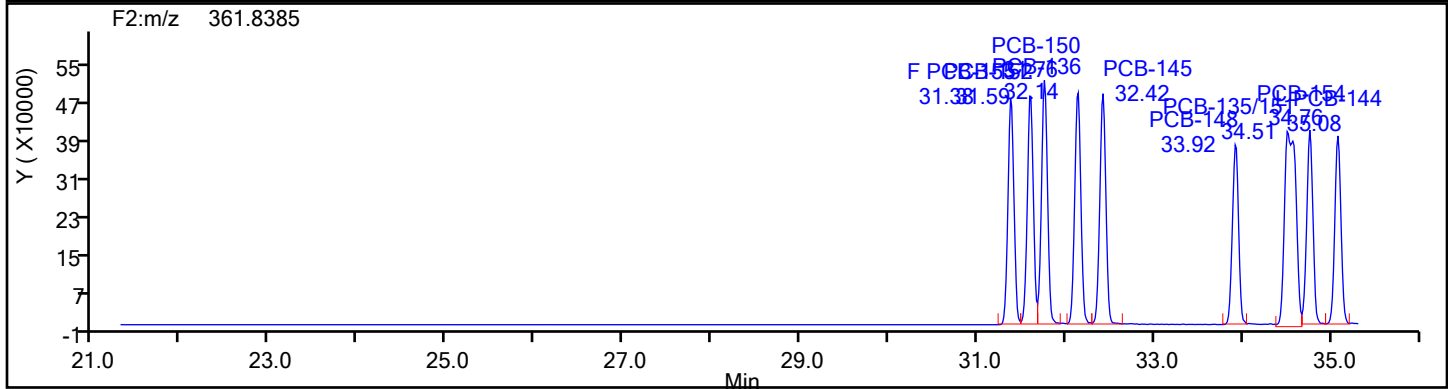
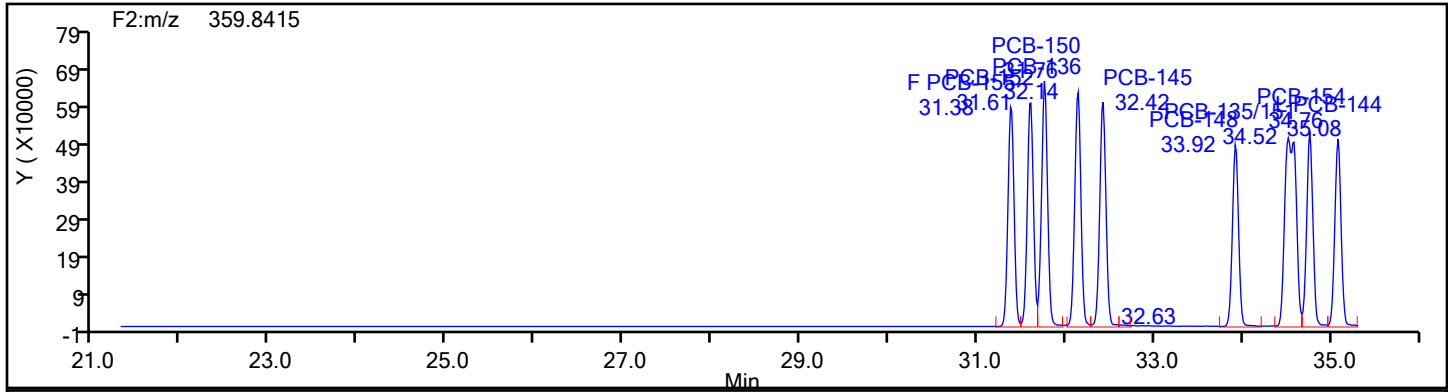


## PePCB F3 Lock Mass

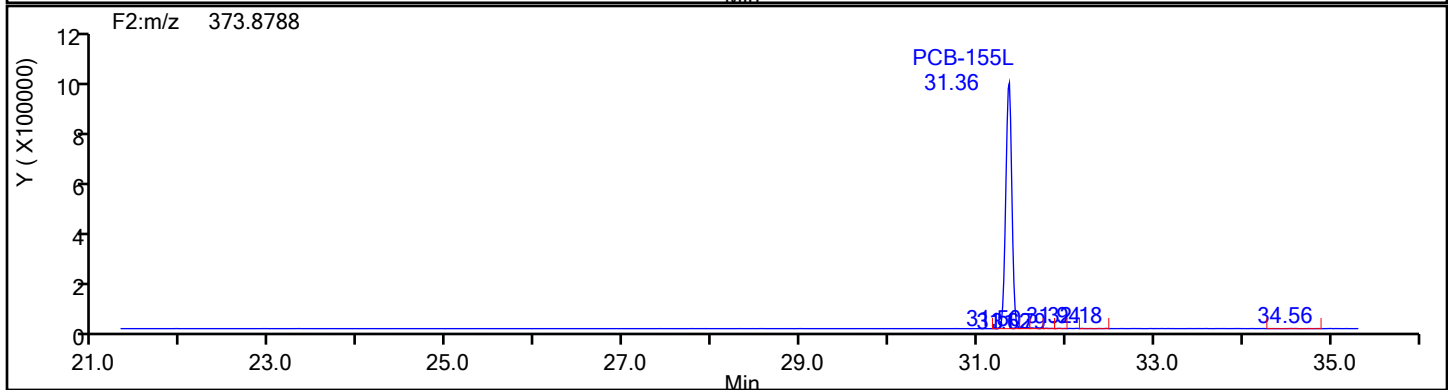
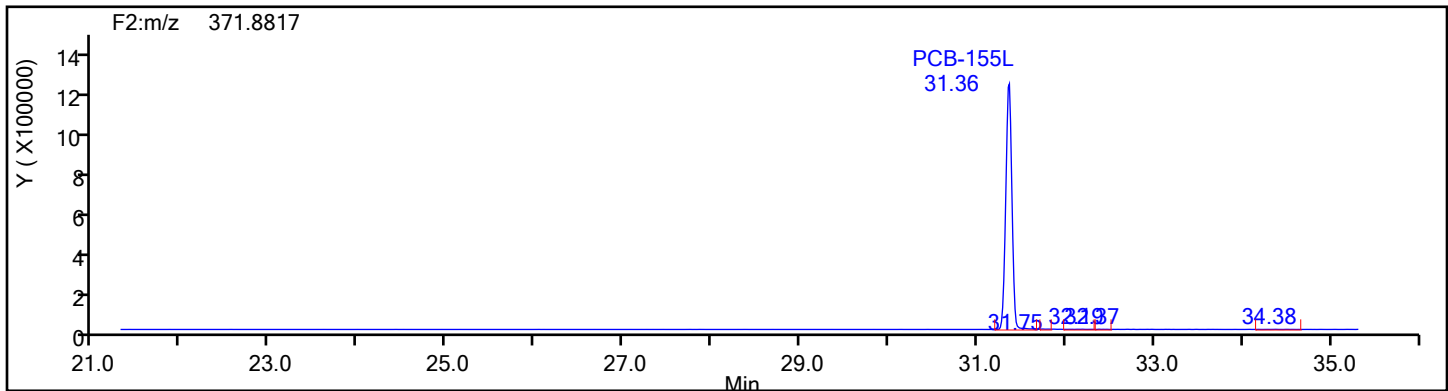


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88219 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

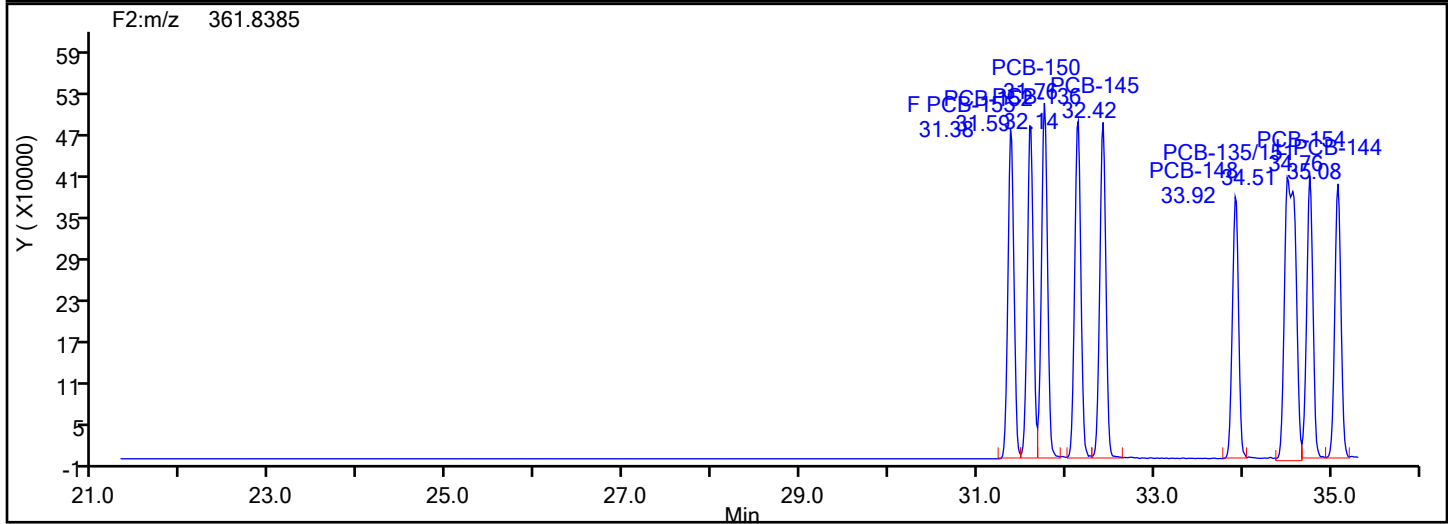
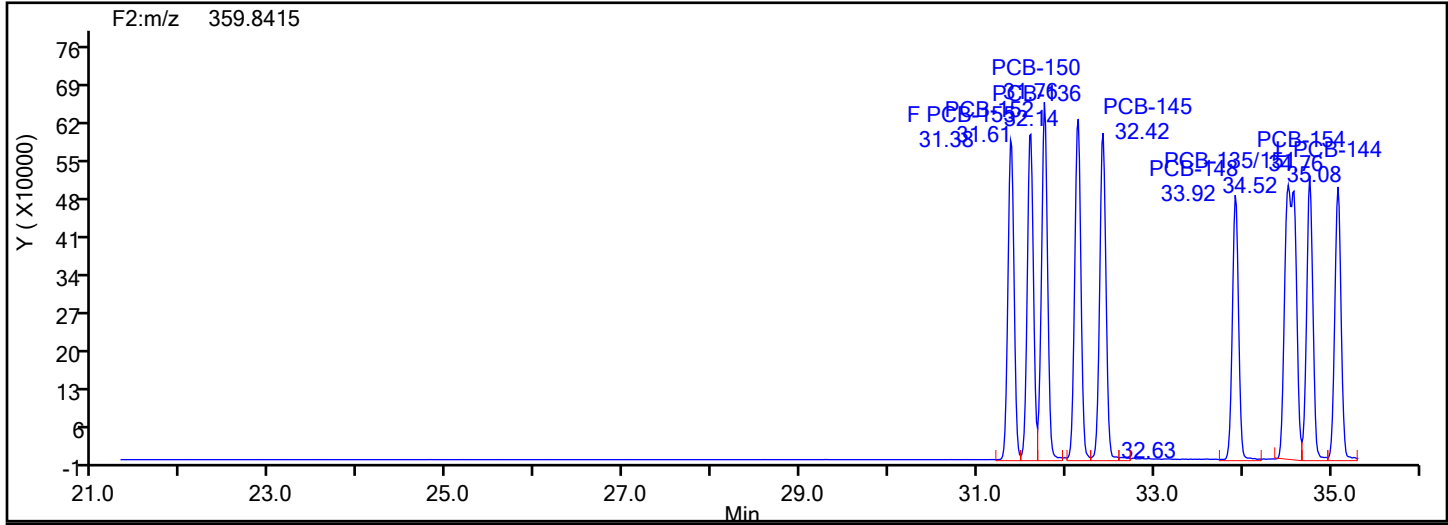


## HxPCB F2 Standards

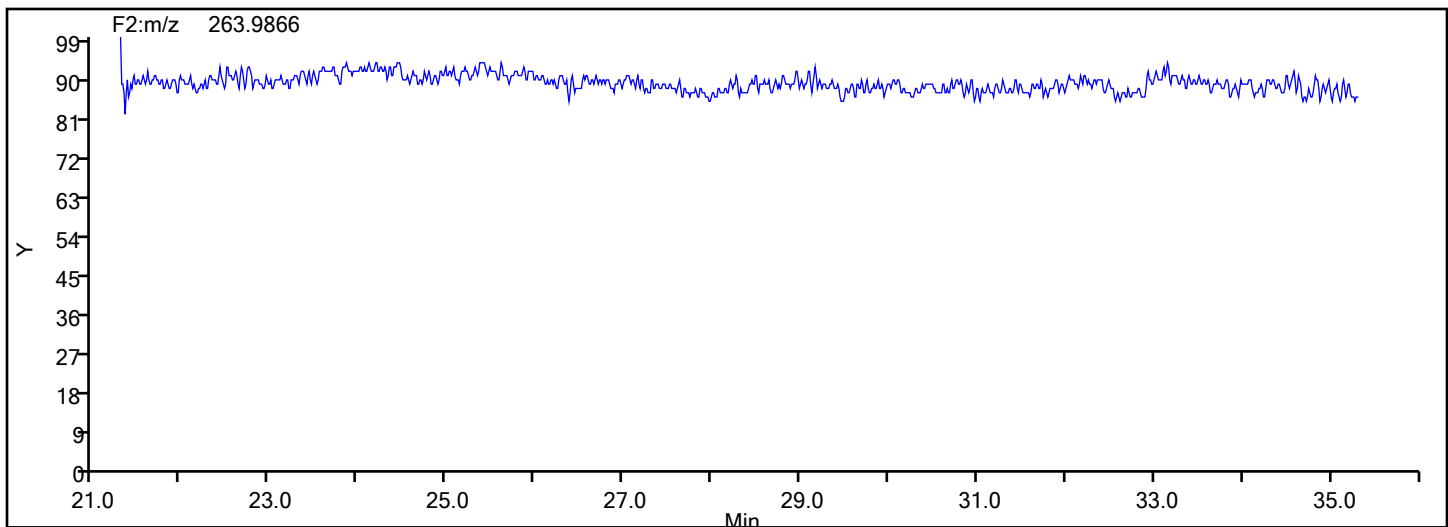


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88219 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

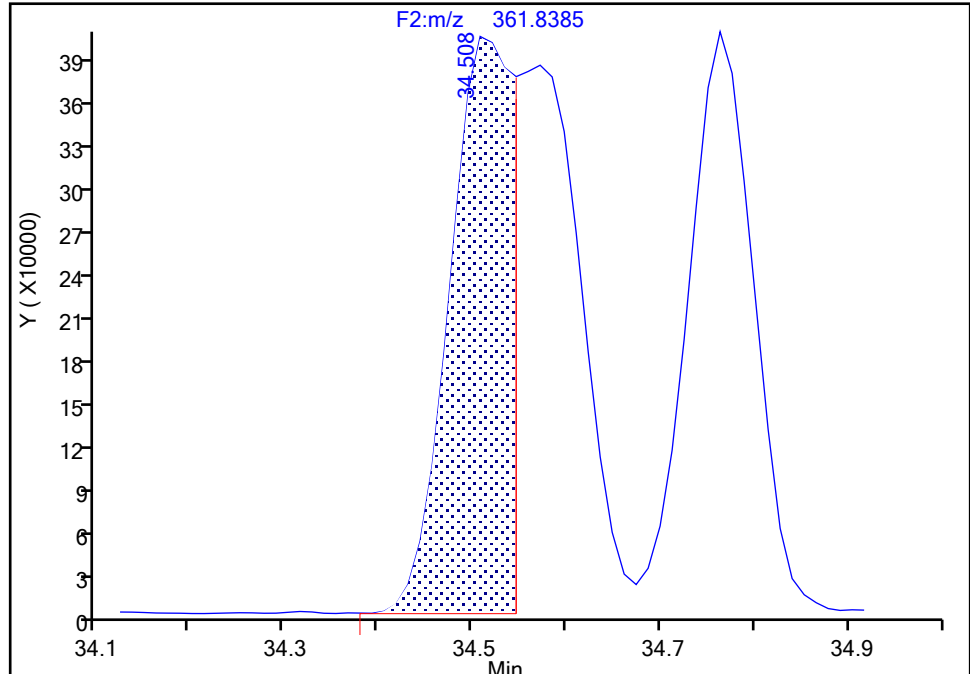
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-135/151, CAS: STL01819

Signal: 2

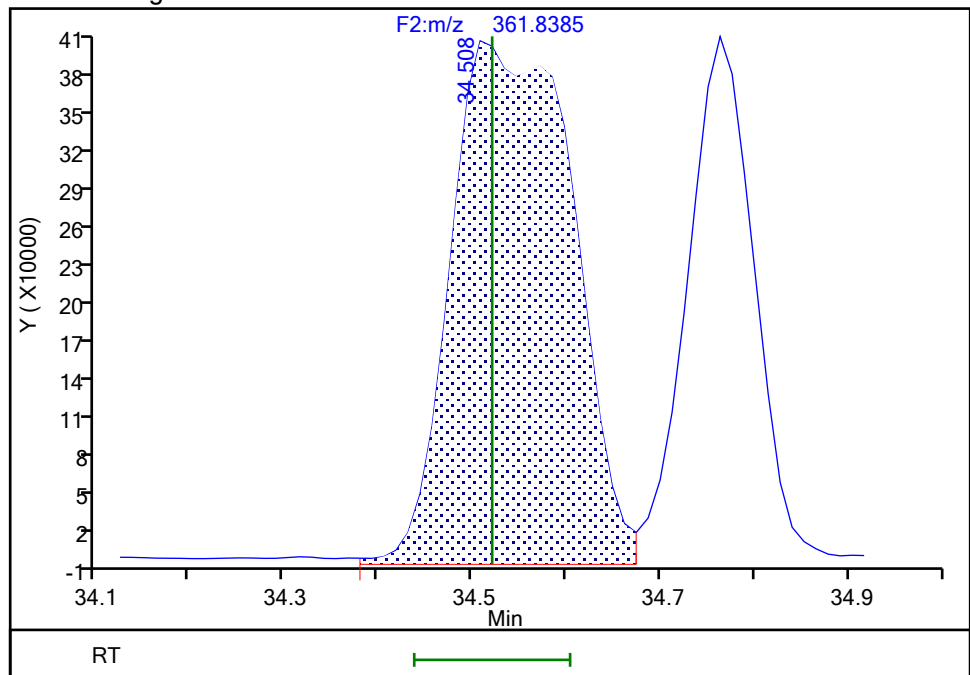
RT: 34.51  
Area: 1830865  
Amount: 58.392687  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.51  
Area: 3661779  
Amount: 107.5349  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:54:24 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

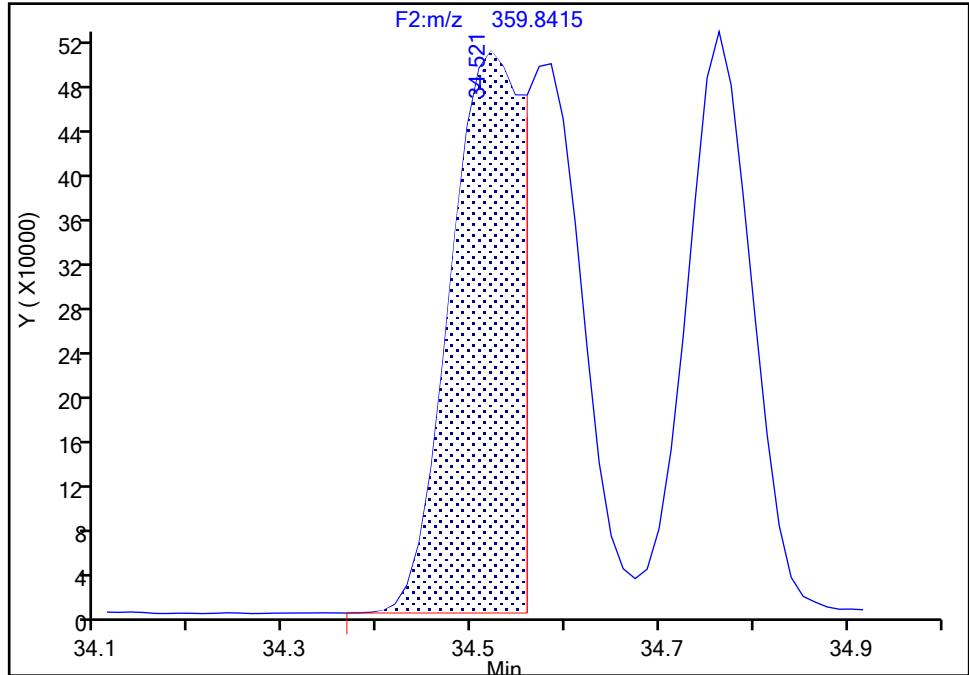
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Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 1

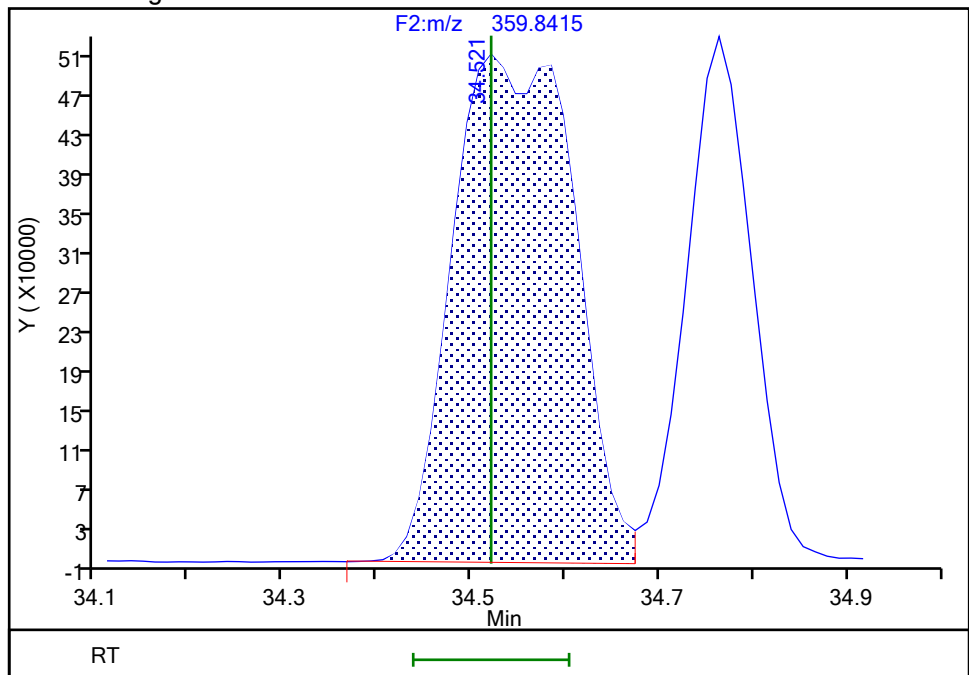
RT: 34.52  
Area: 2628573  
Amount: 58.392687  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.52  
Area: 4550641  
Amount: 107.5349  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:54:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

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BASFHWC-F-2020-05020  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

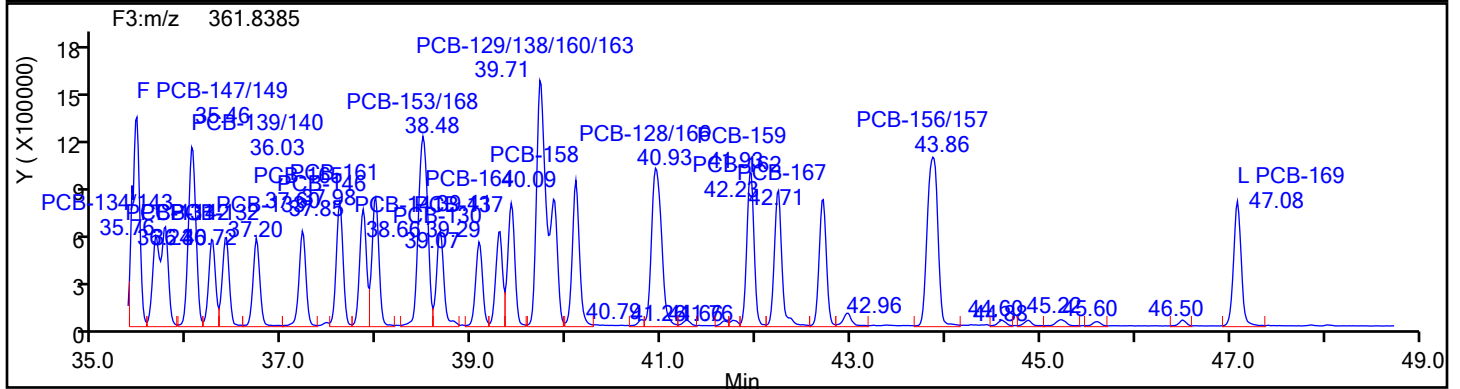
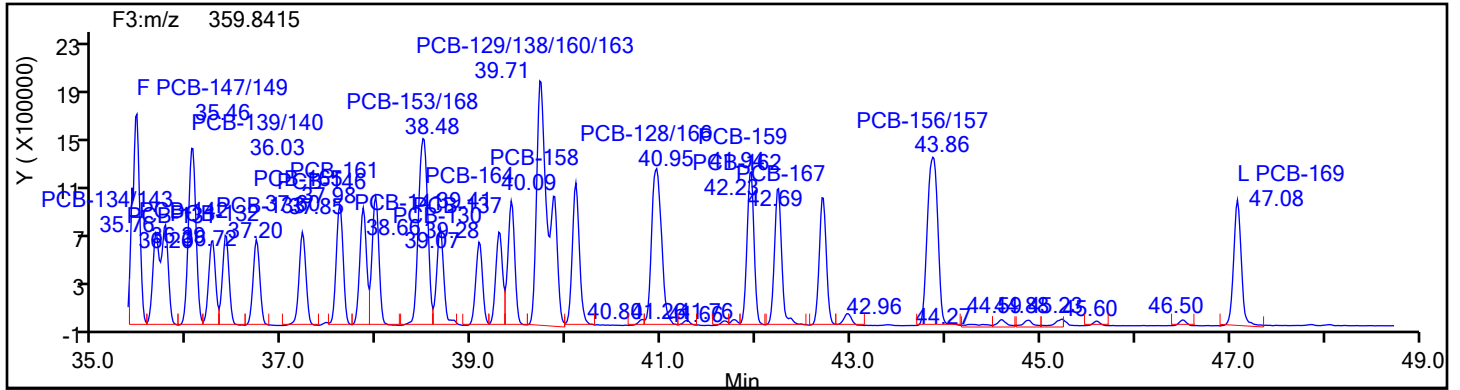
Worklist#: 88219

Sample Line#: 1

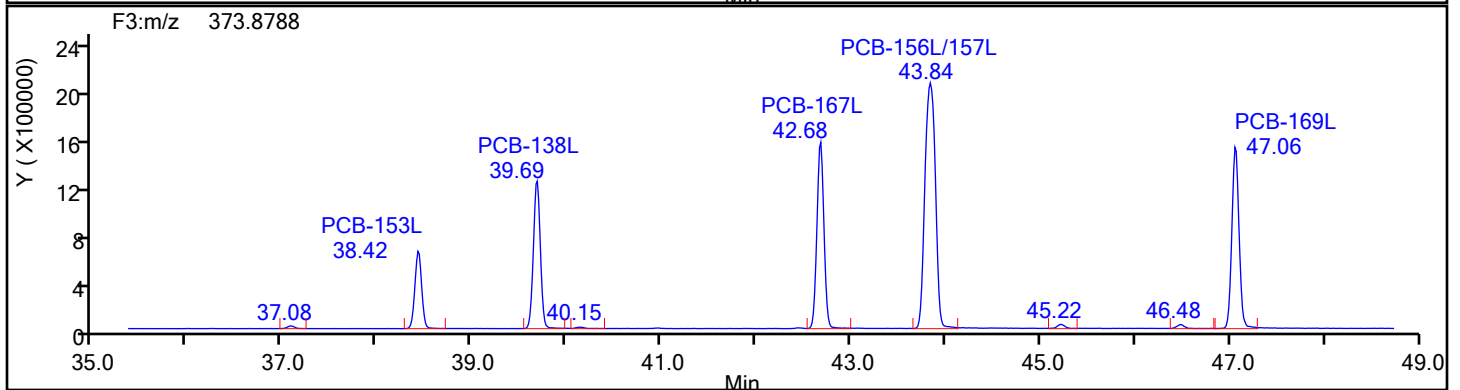
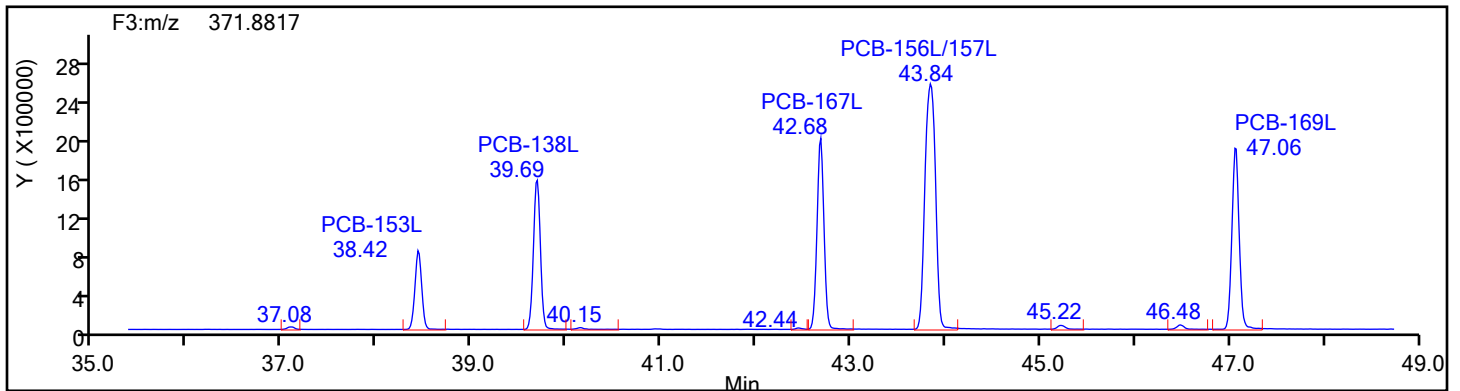
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Vol: 1.0 µl

Operator ID: Xcalibur System

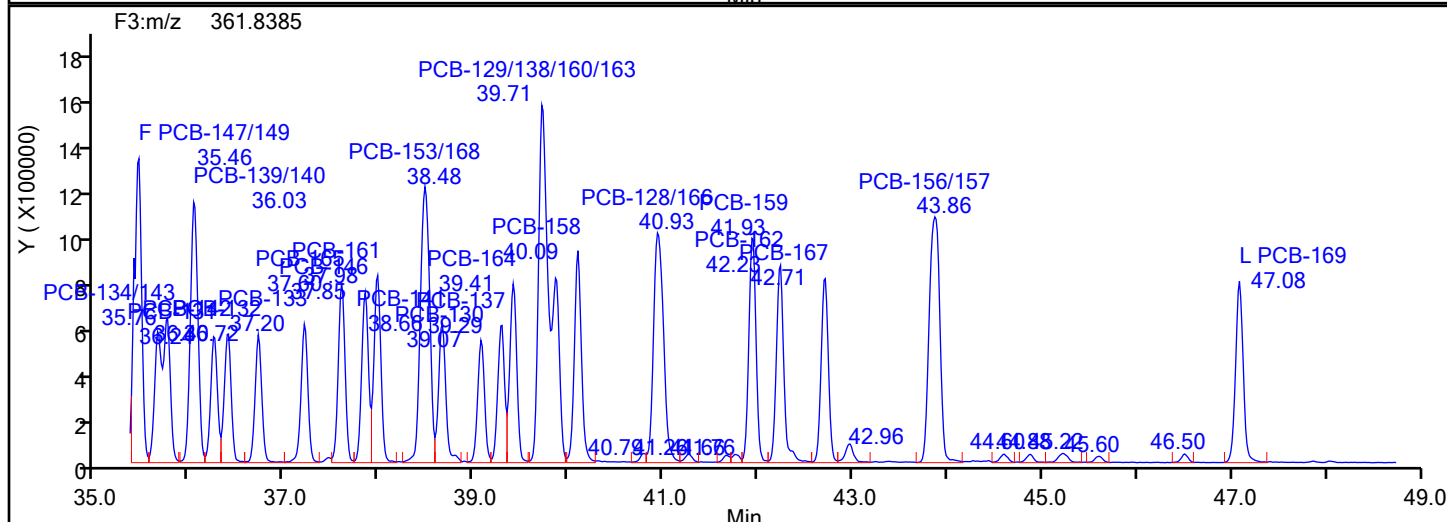
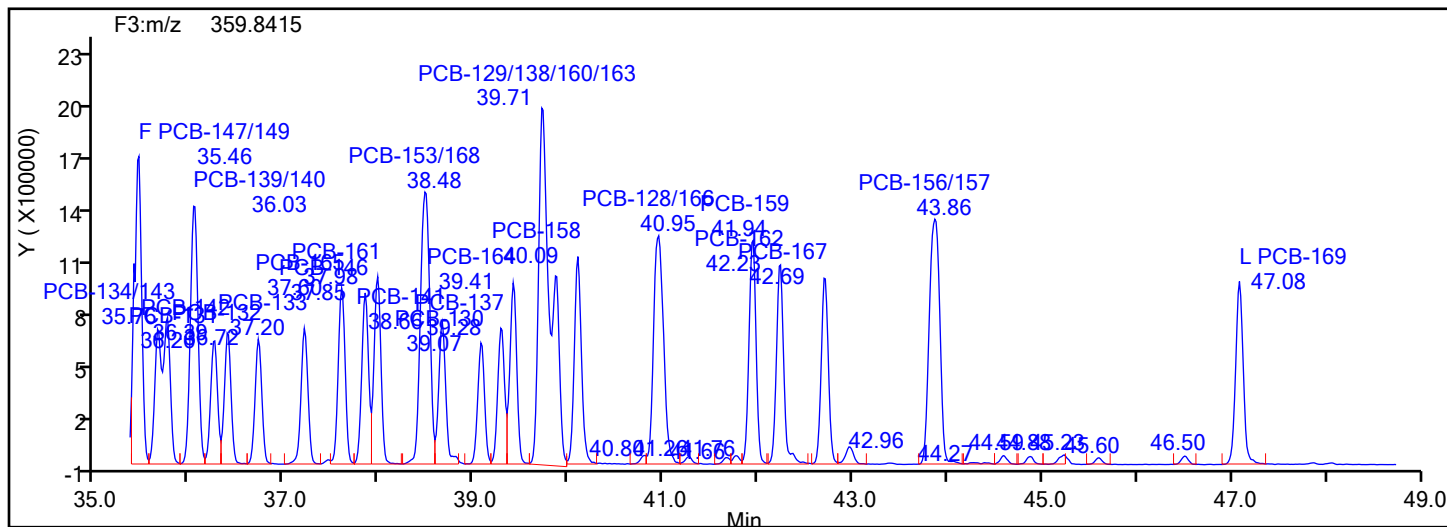
Limit Group: HR - EPA 23 PCB ICAL

Client ID:

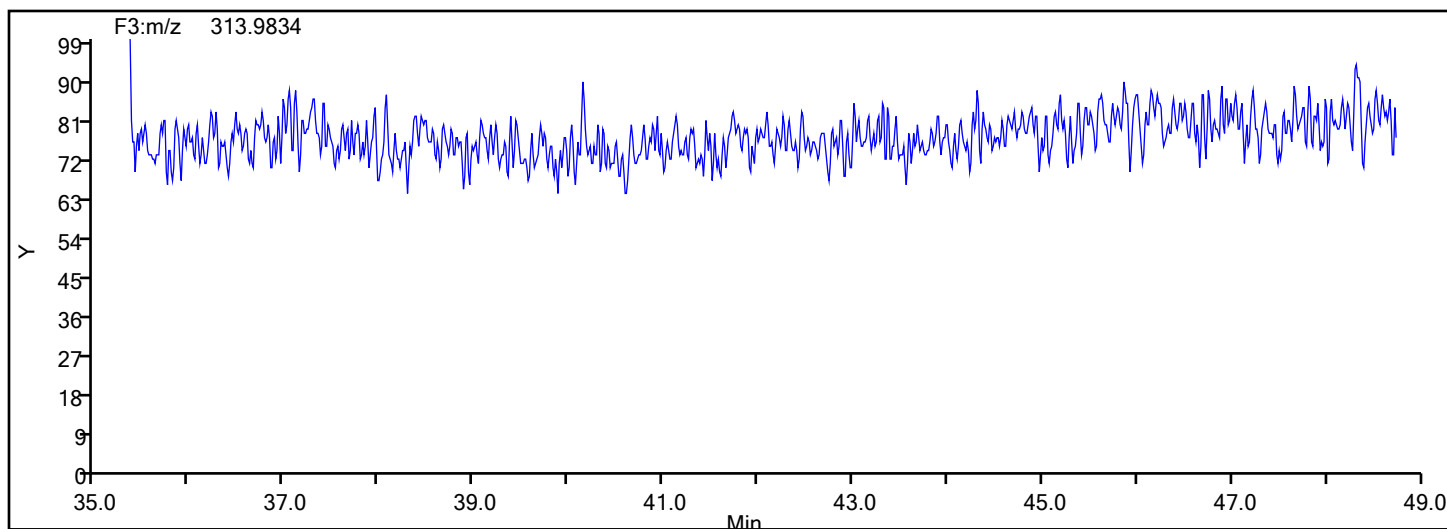
Sample Line#: 1

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass





## Eurofins Knoxville

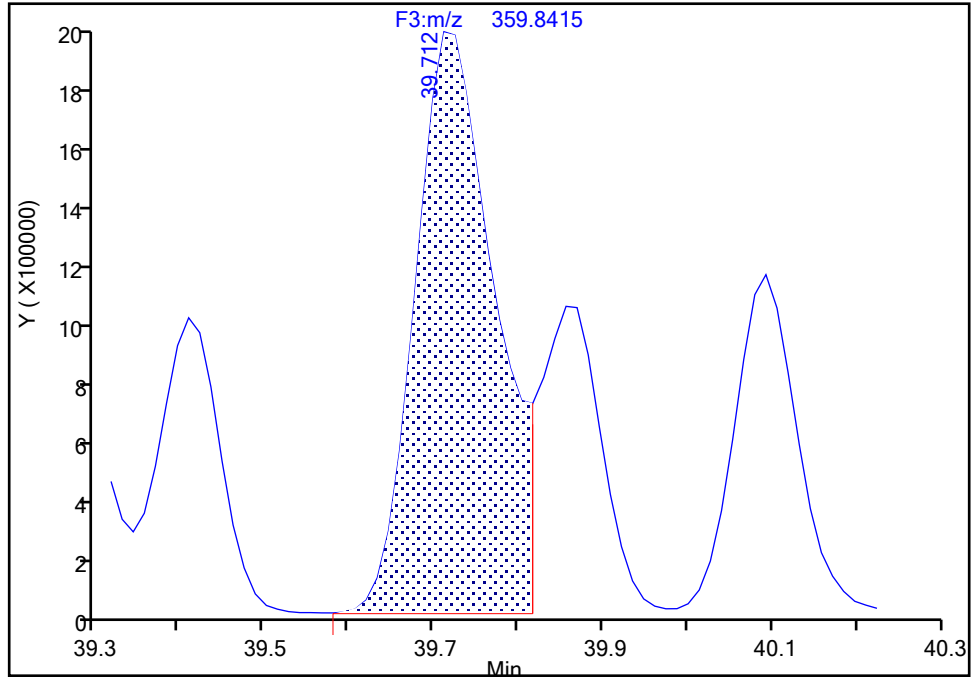
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

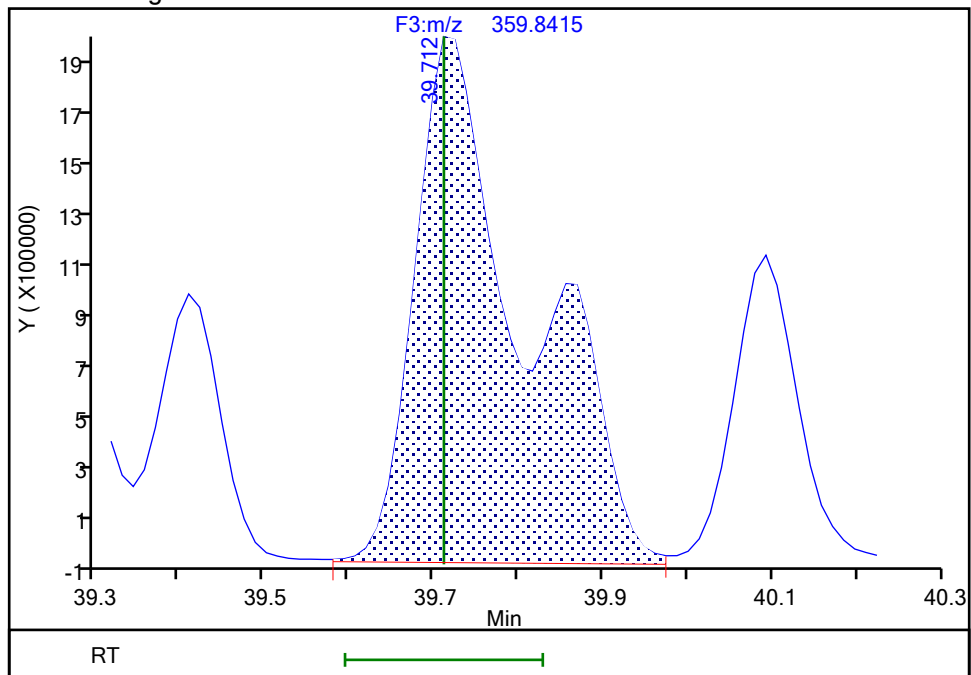
RT: 39.71  
Area: 12537395  
Amount: 131.9524  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.71  
Area: 17614670  
Amount: 188.8400  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:57:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#: 0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

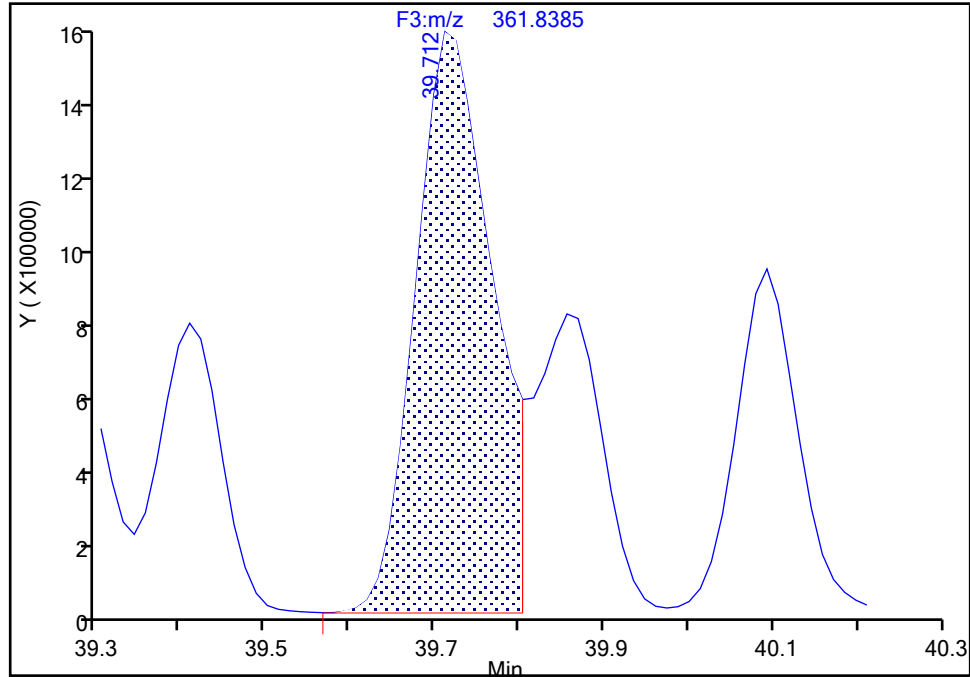
Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

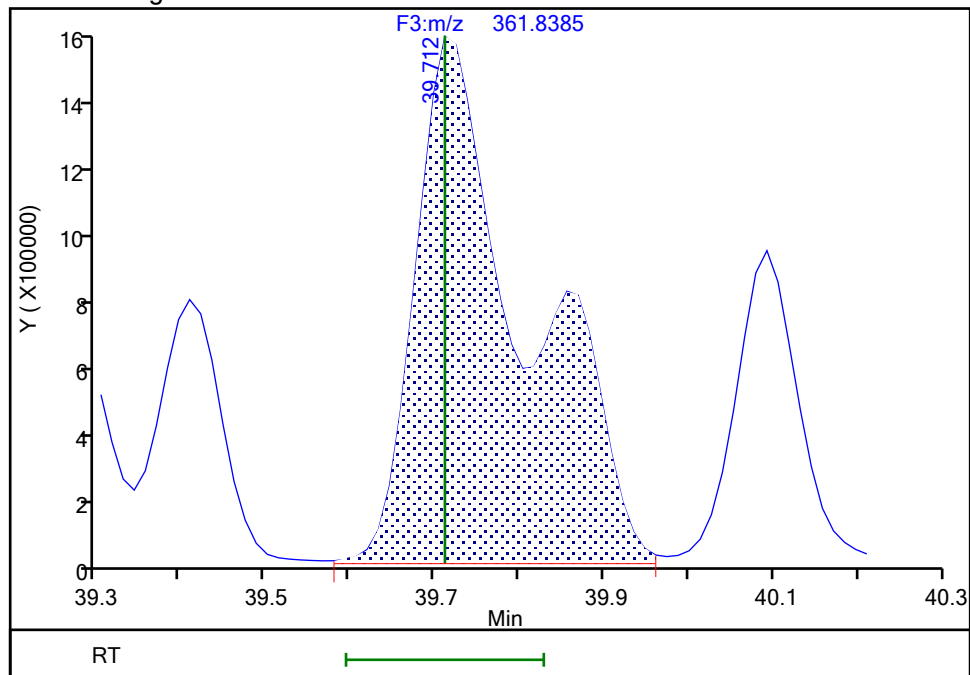
RT: 39.71  
Area: 9741081  
Amount: 131.9524  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.71  
Area: 14268555  
Amount: 188.8400  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:57:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

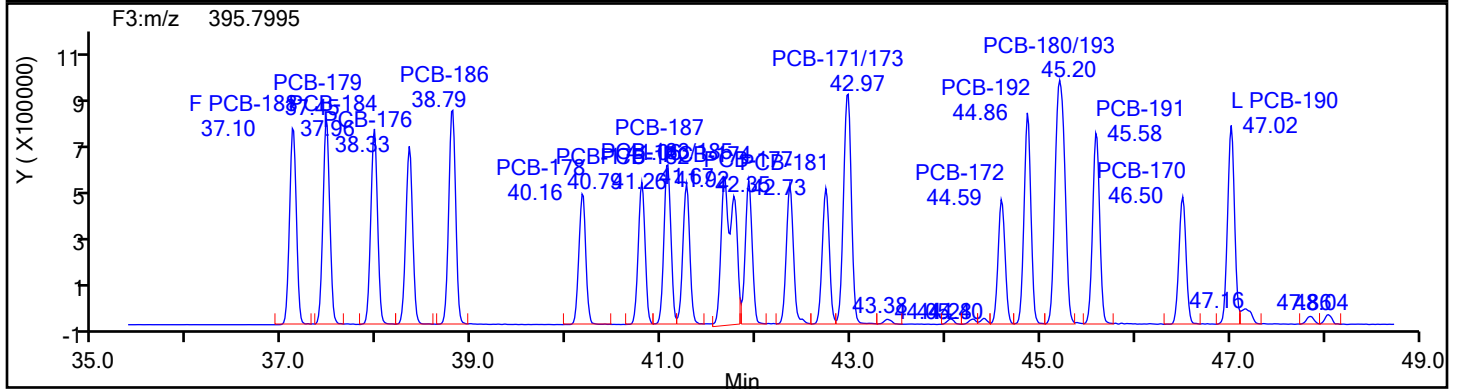
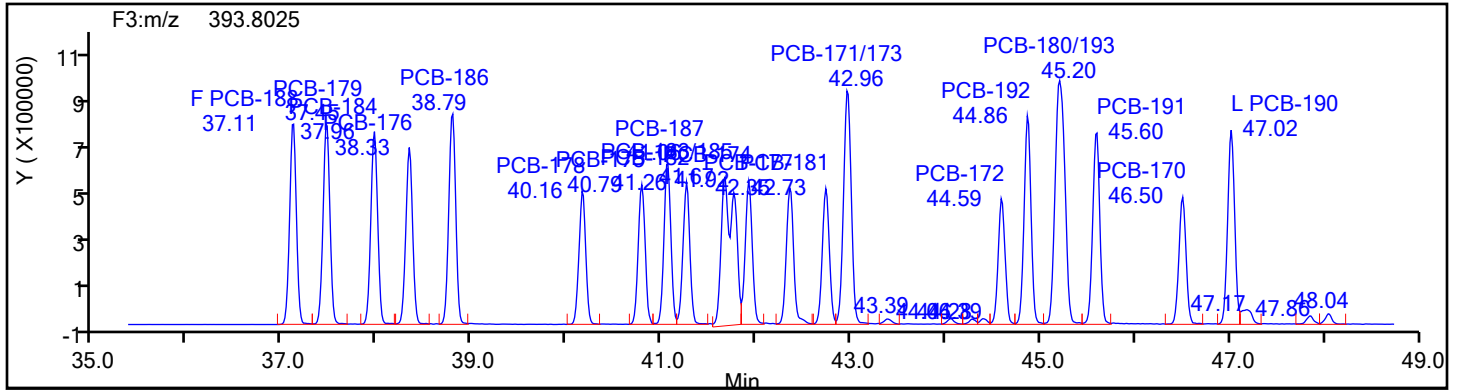
Worklist#: 88219

Sample Line#: 1

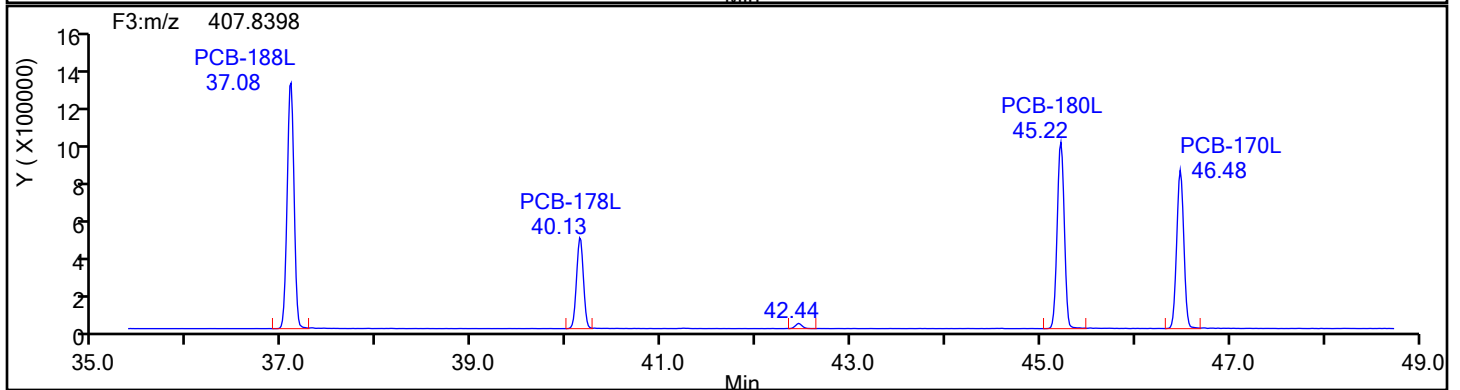
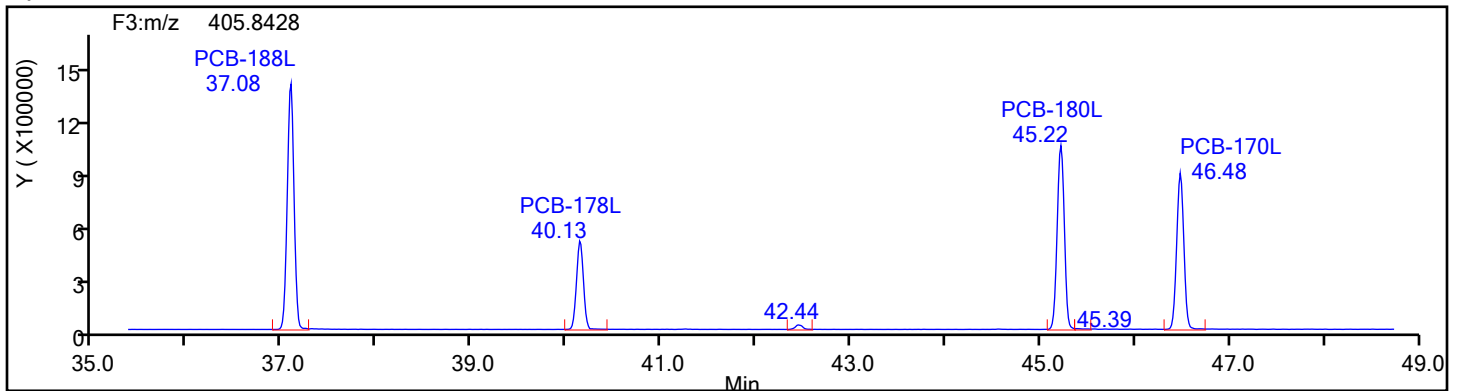
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3

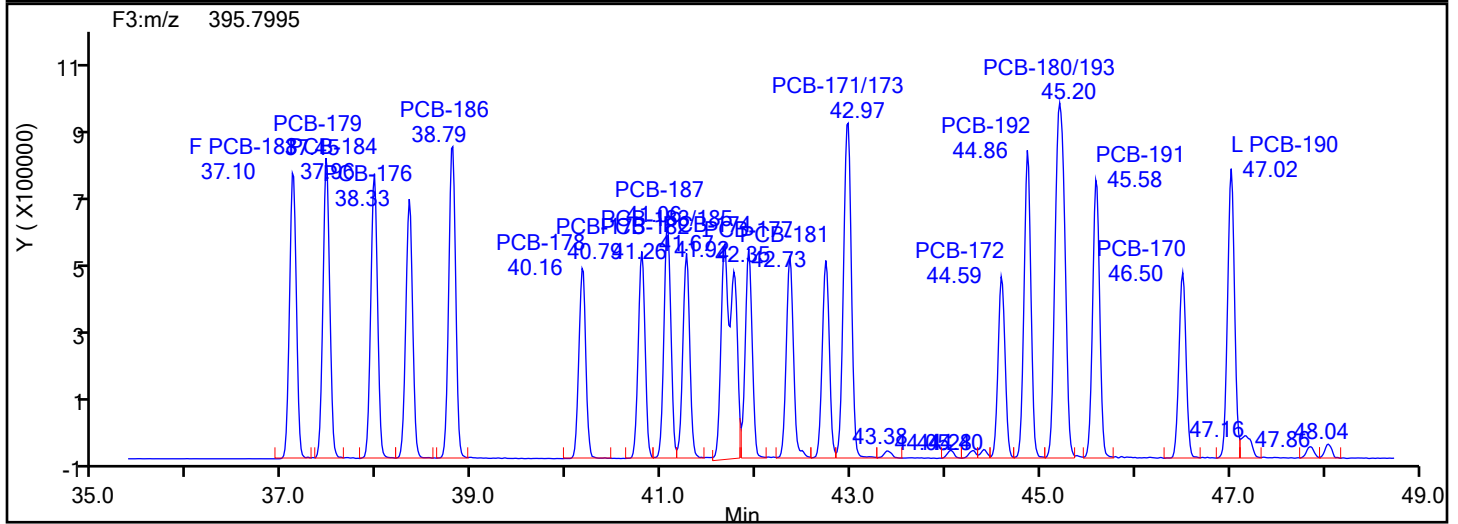
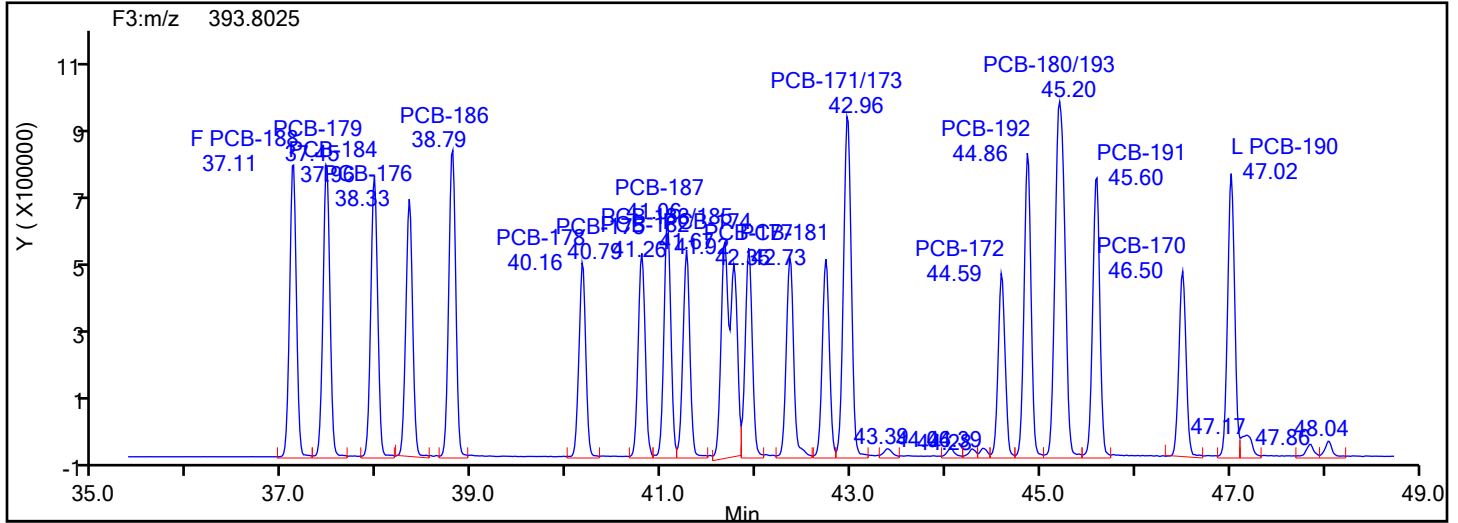


HpPCB F3 Standards

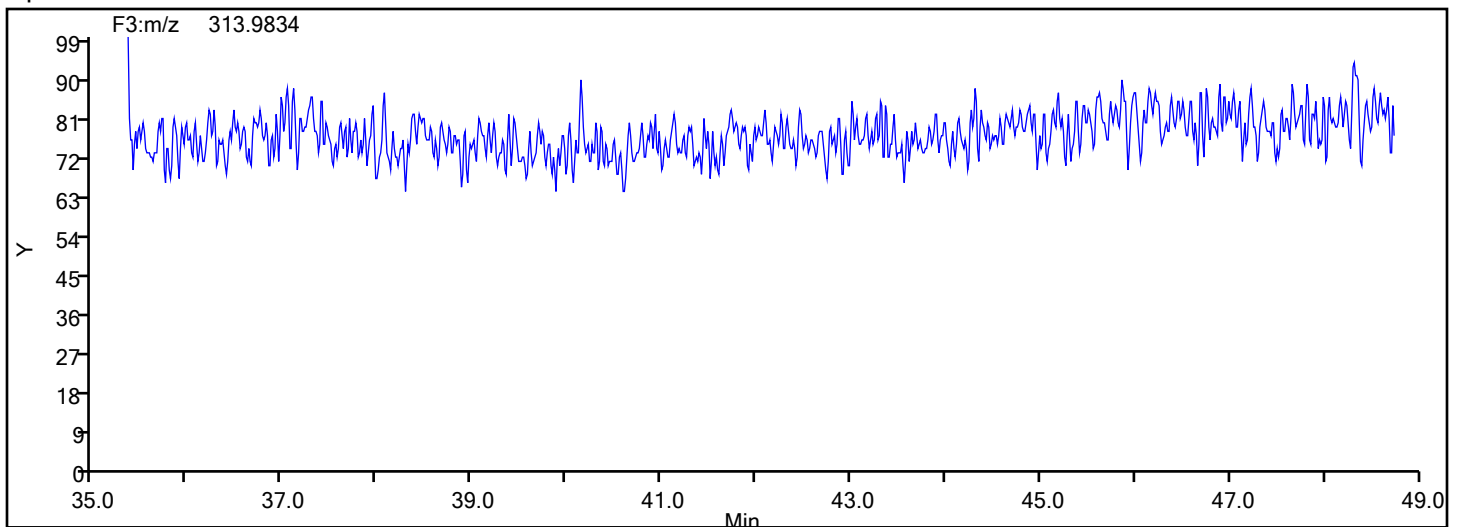


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88219 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

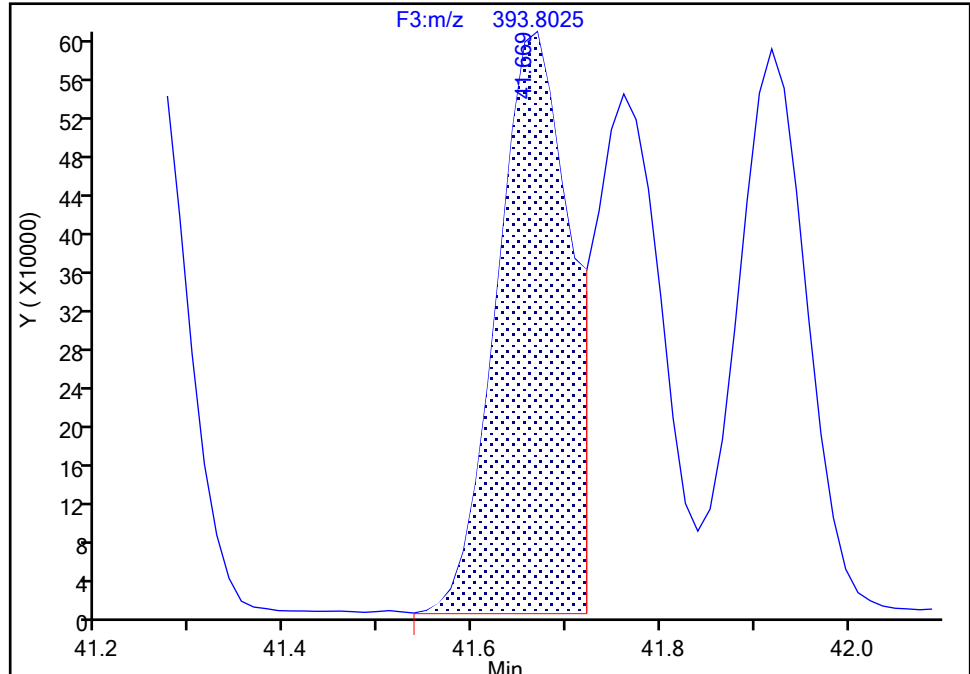
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 1

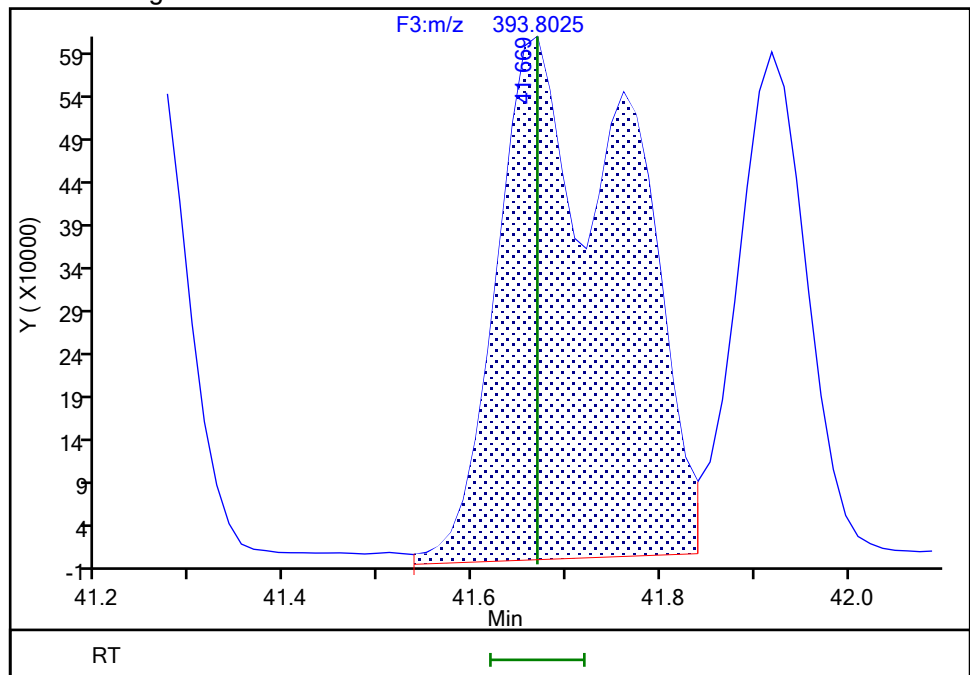
RT: 41.67  
Area: 3229396  
Amount: 56.060753  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.67  
Area: 5879703  
Amount: 100.5752  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:57:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

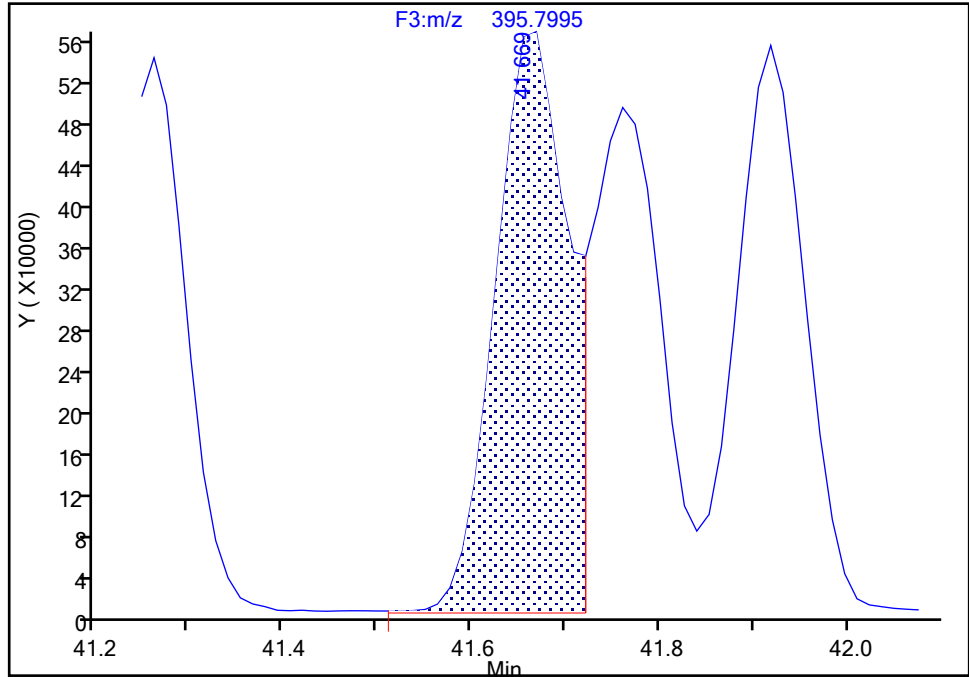
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Injection Date: 28-Jun-2024 09:53:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 2

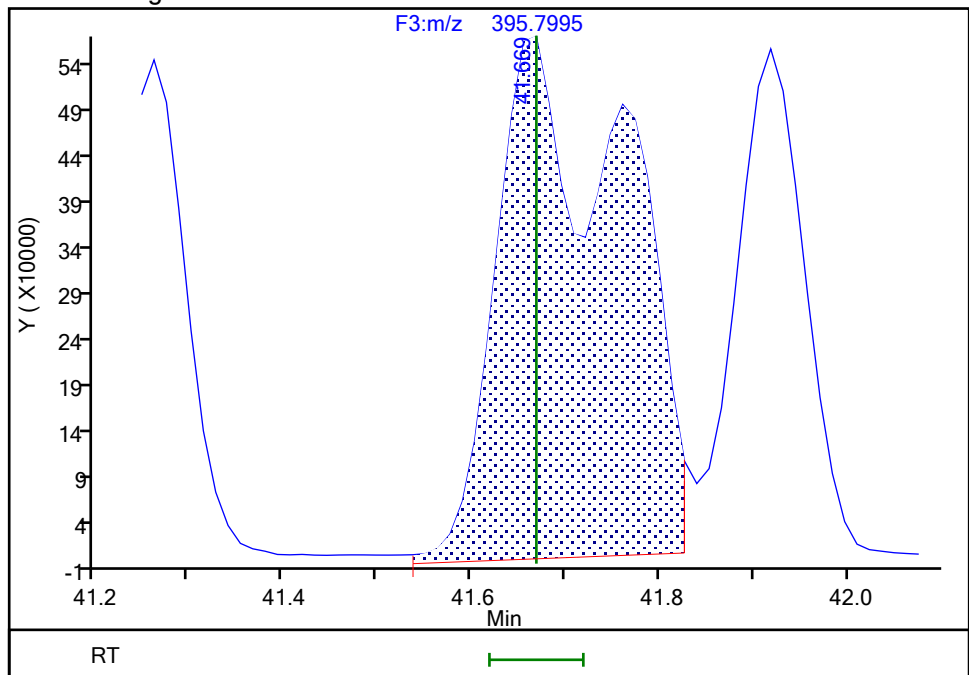
RT: 41.67  
Area: 3066303  
Amount: 56.060753  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.67  
Area: 5415025  
Amount: 100.5752  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: OWJ7, 28-Jun-2024 10:57:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

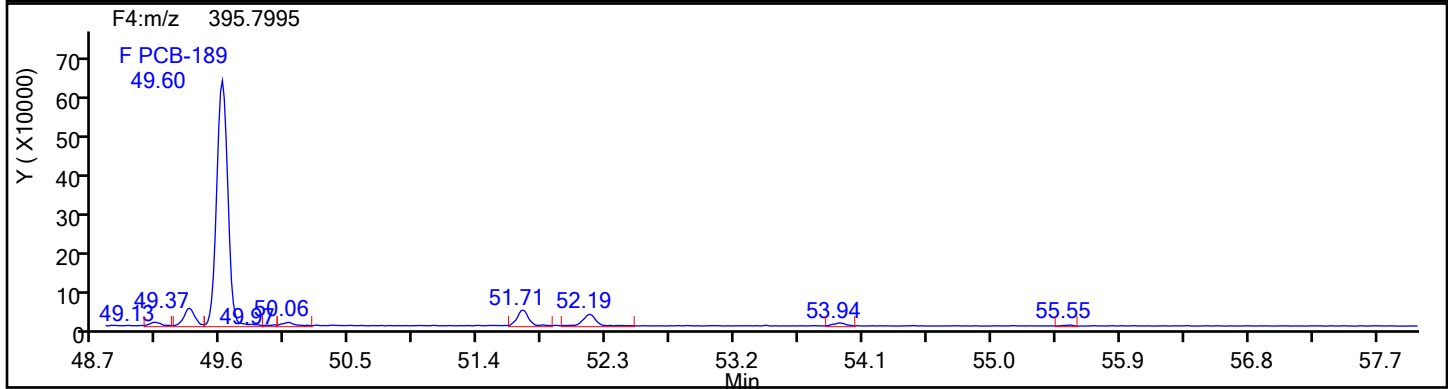
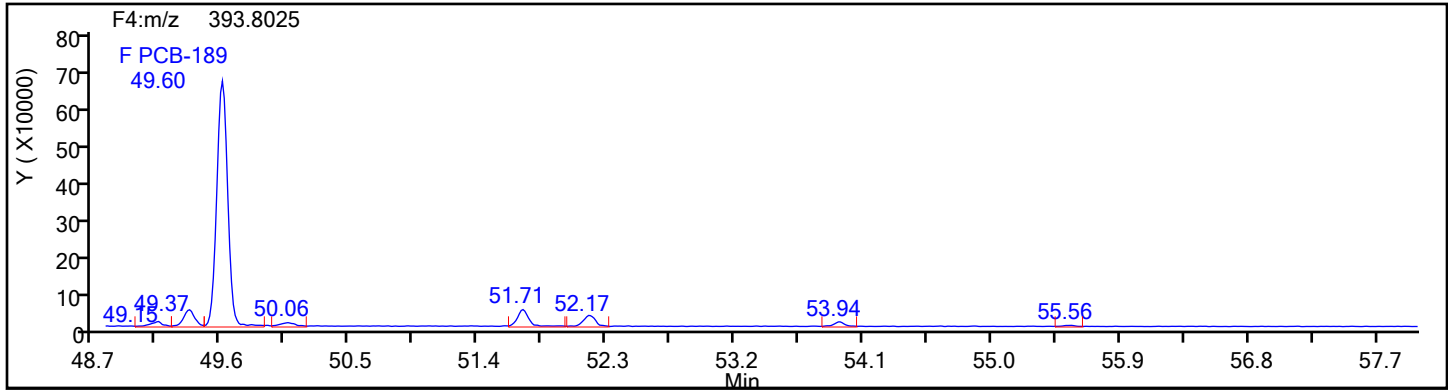
Audit Reason: Incomplete Integration

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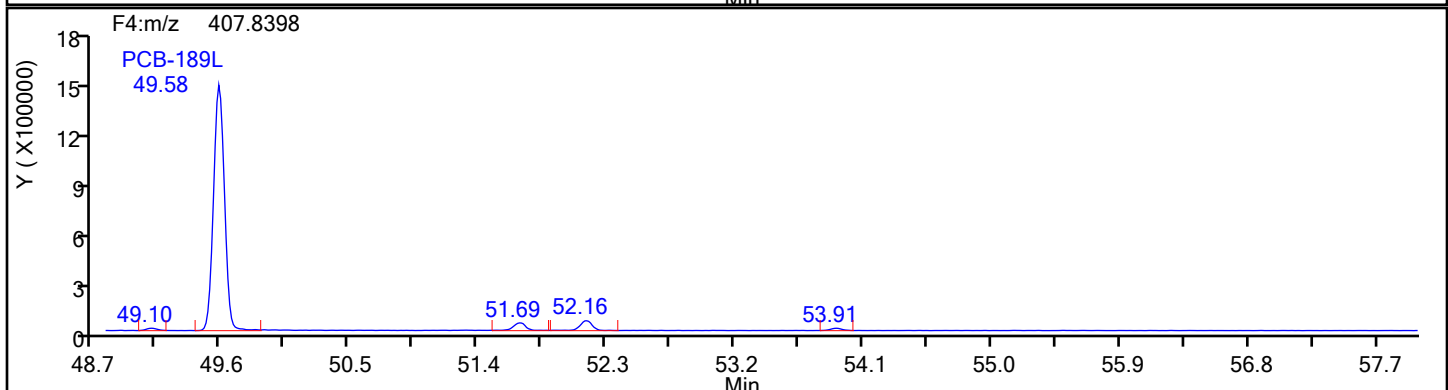
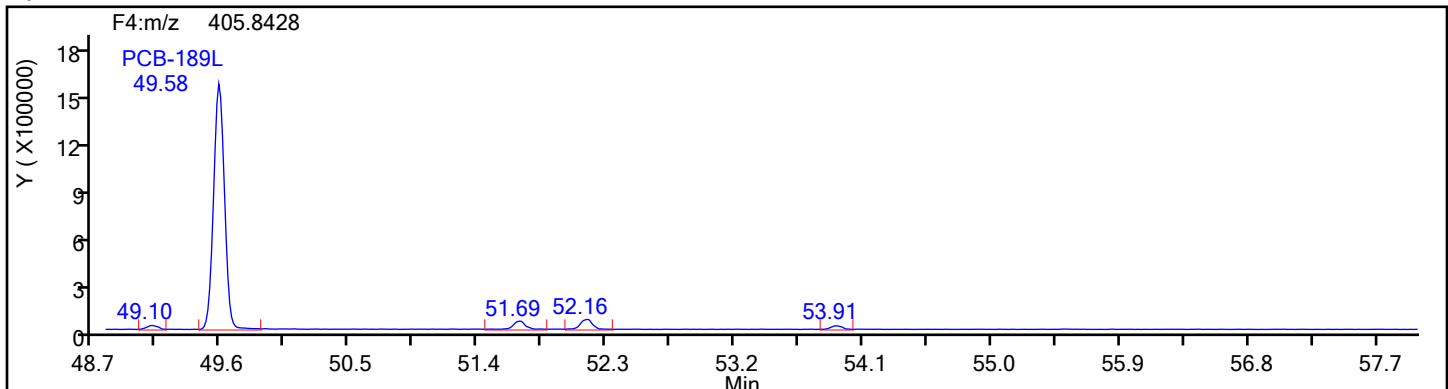
BASFHWC-F0028  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 09:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88219 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4



## HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

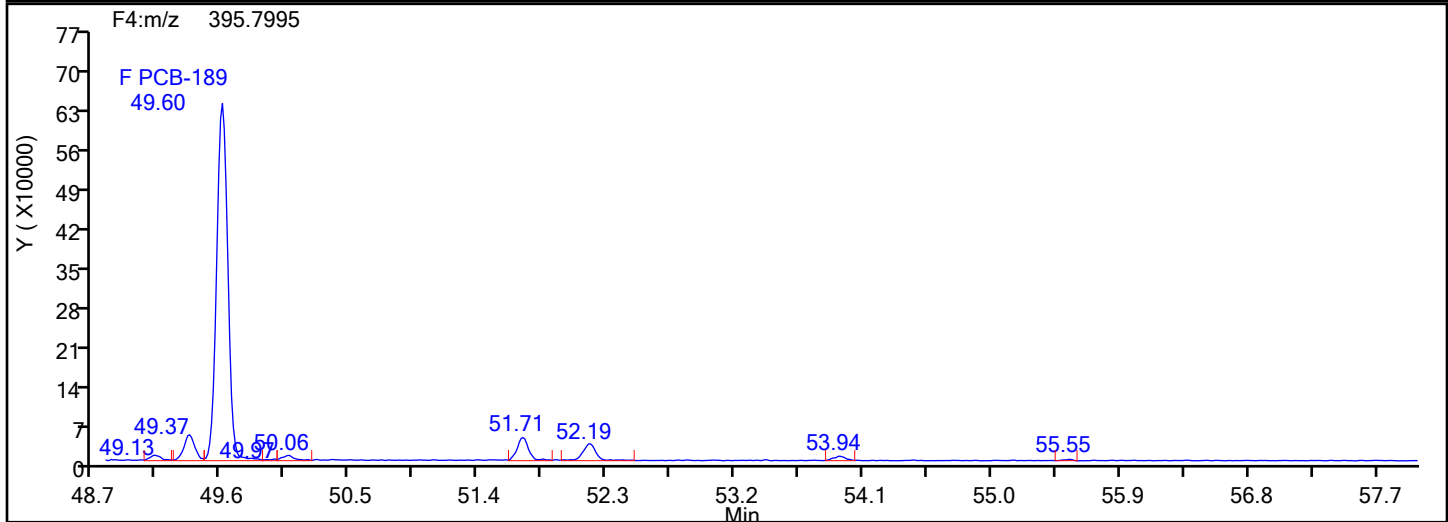
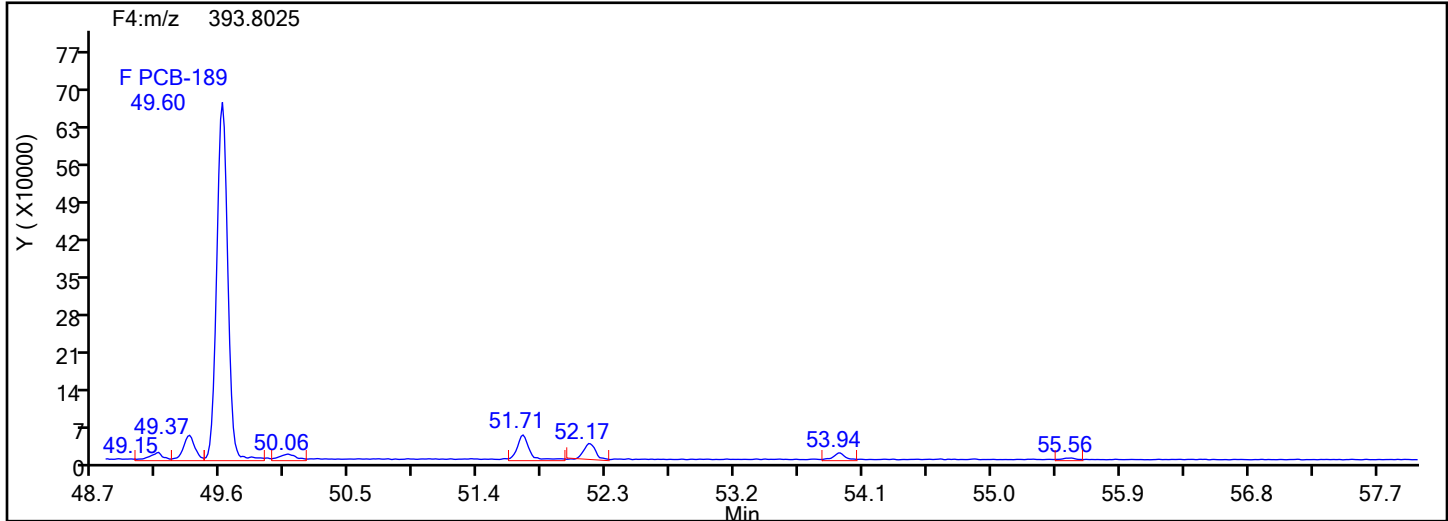
Worklist#: 88219

Sample Line#: 1

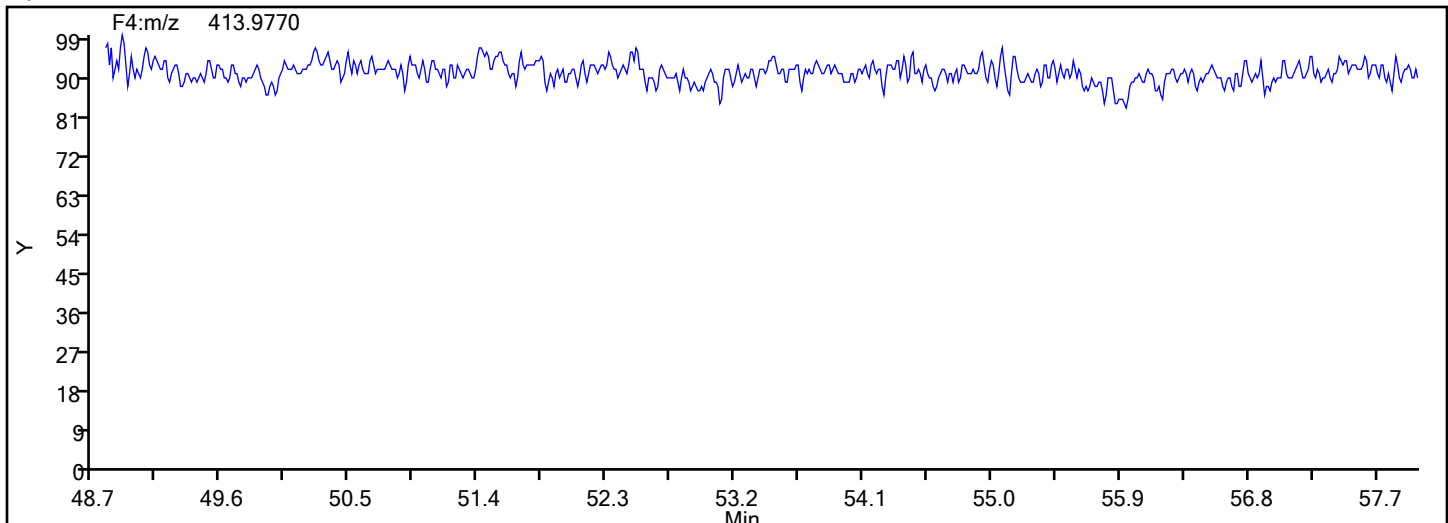
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

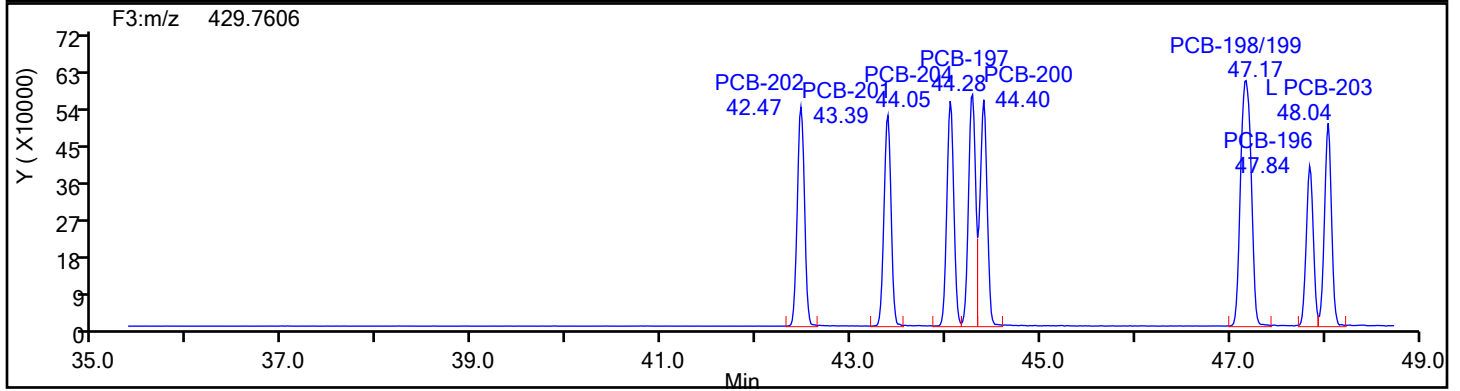
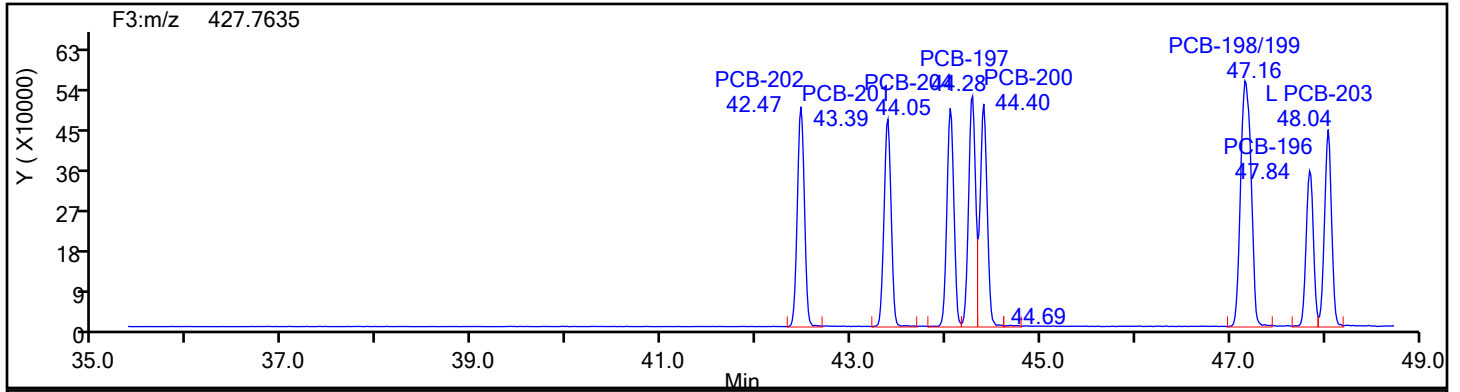
Worklist#: 88219

Sample Line#: 1

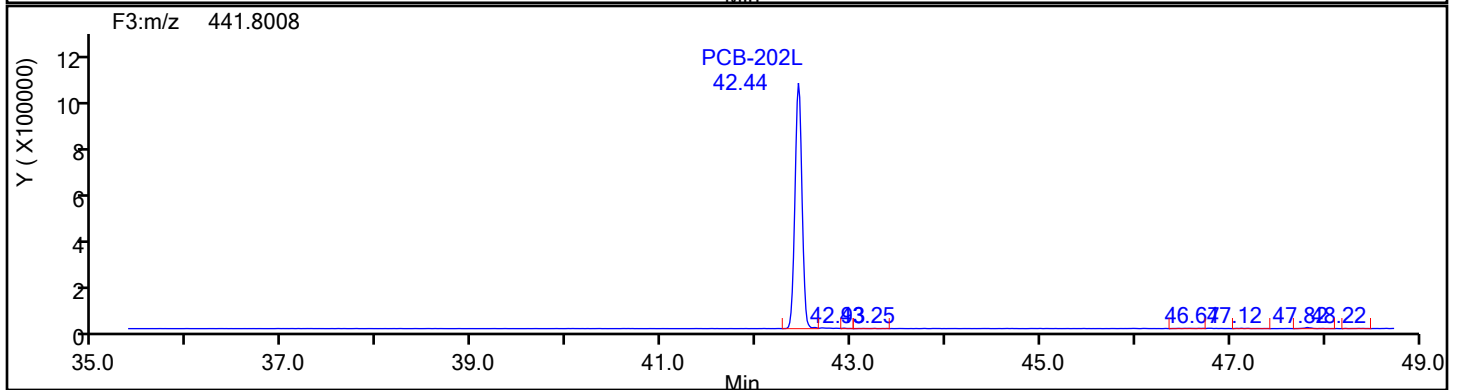
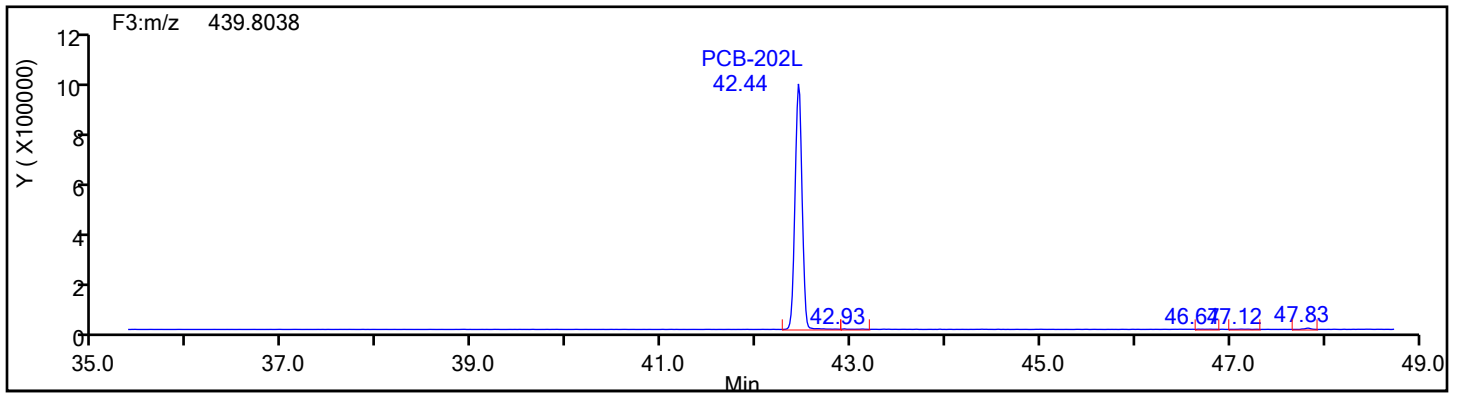
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

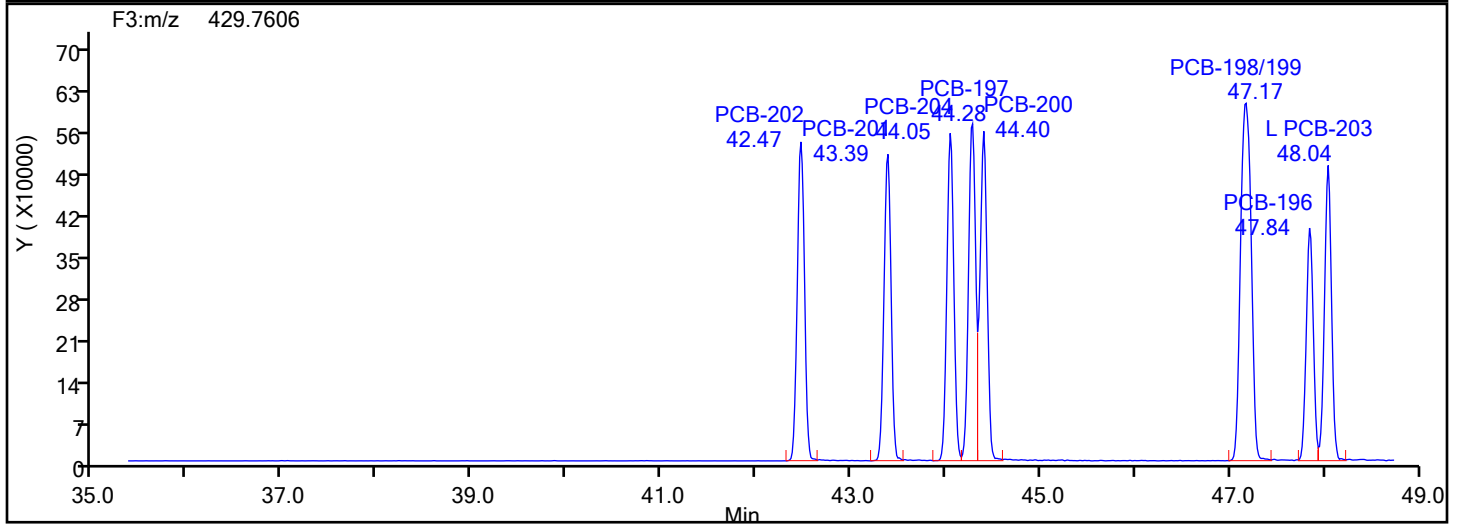
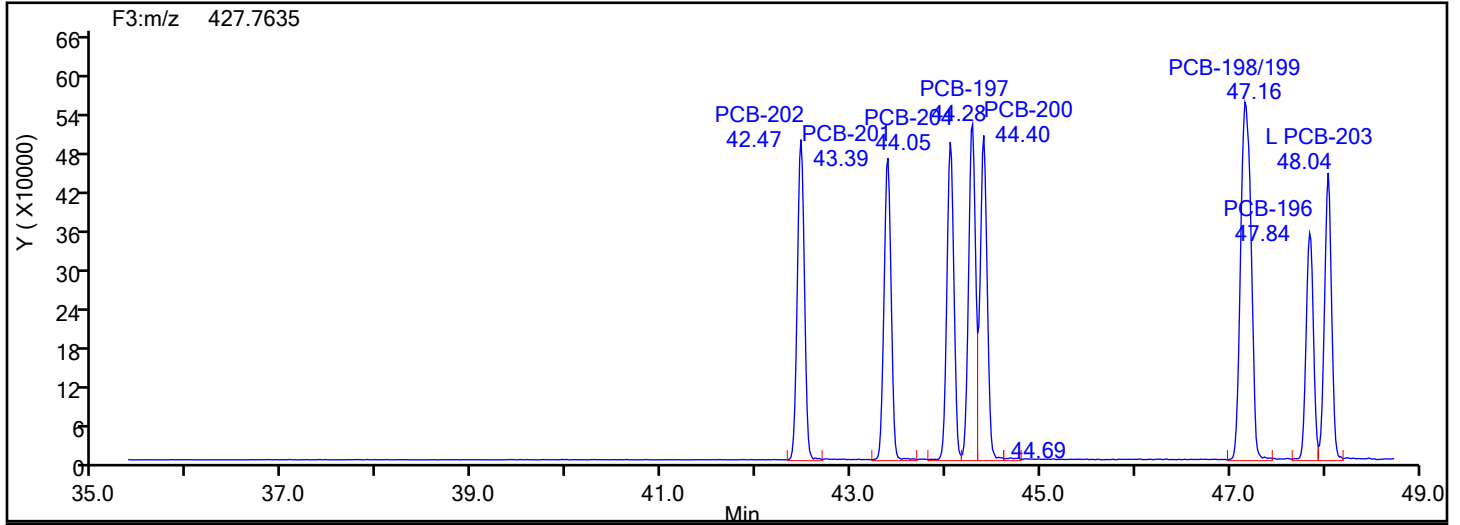
Worklist#: 88219

Sample Line#: 1

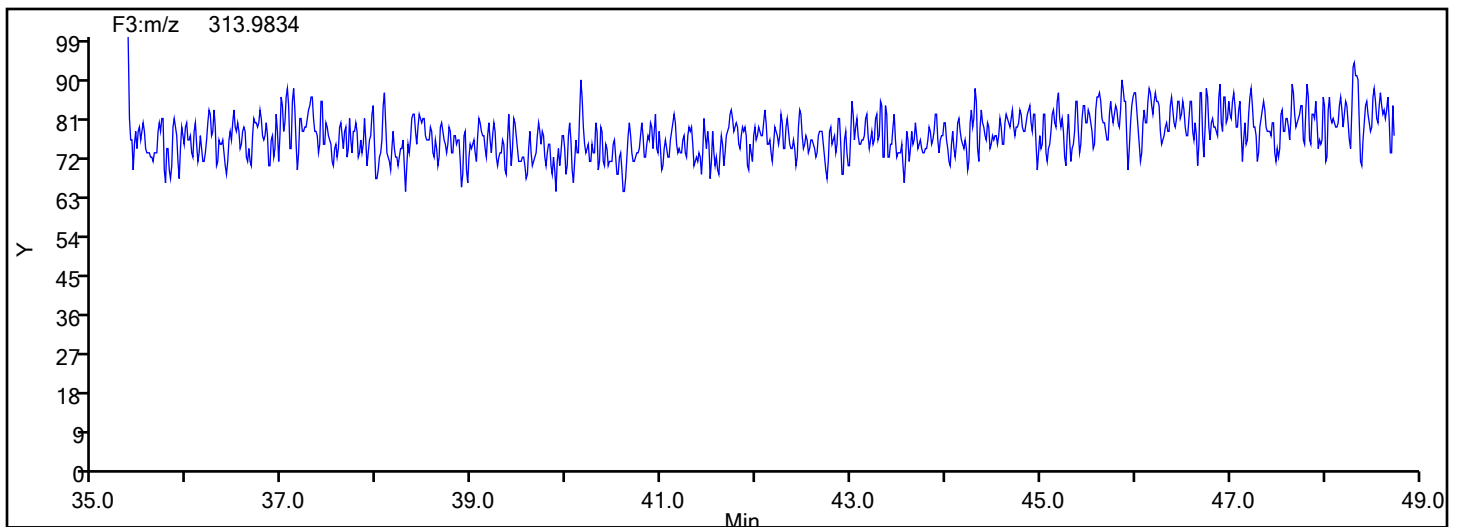
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3

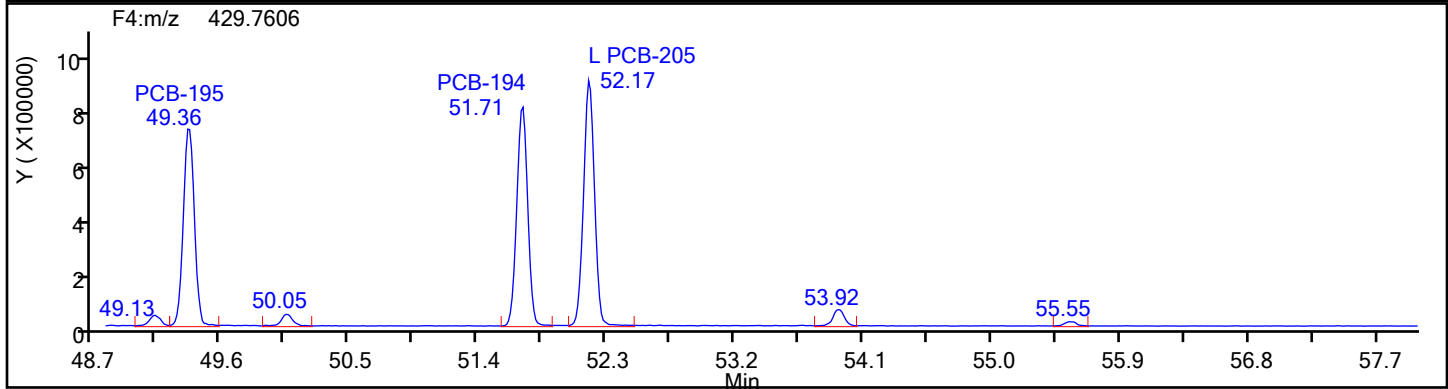
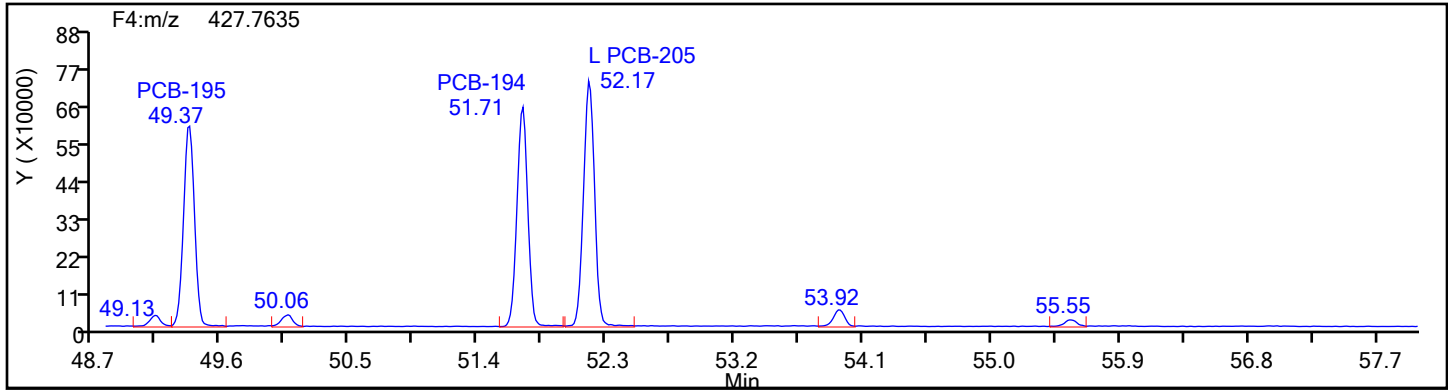


## OcPCB F3 Lock Mass

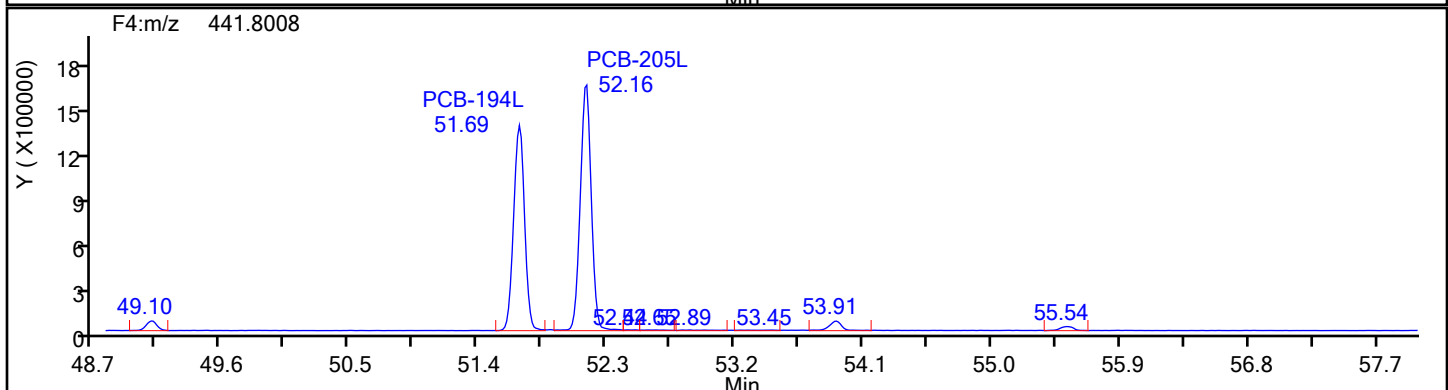
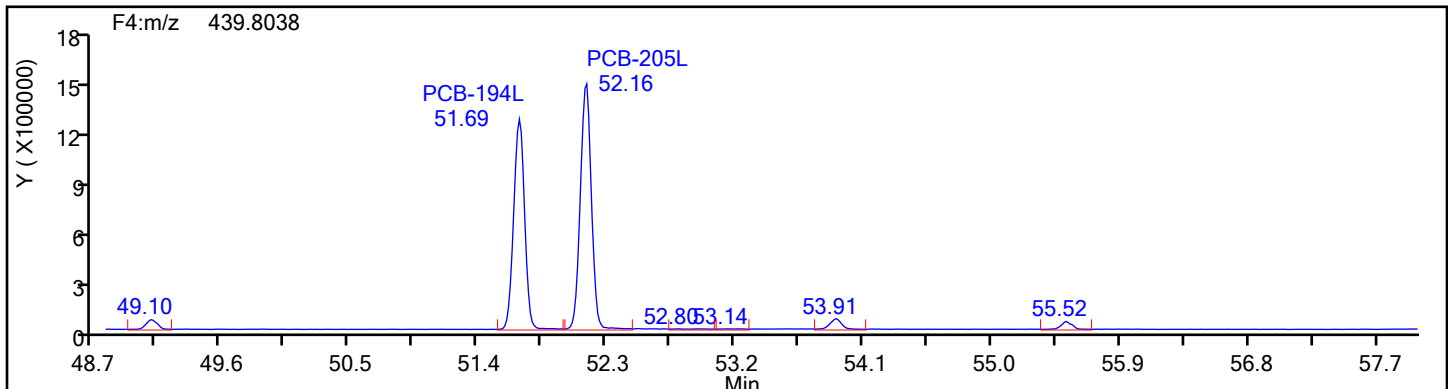


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88219 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4



## OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

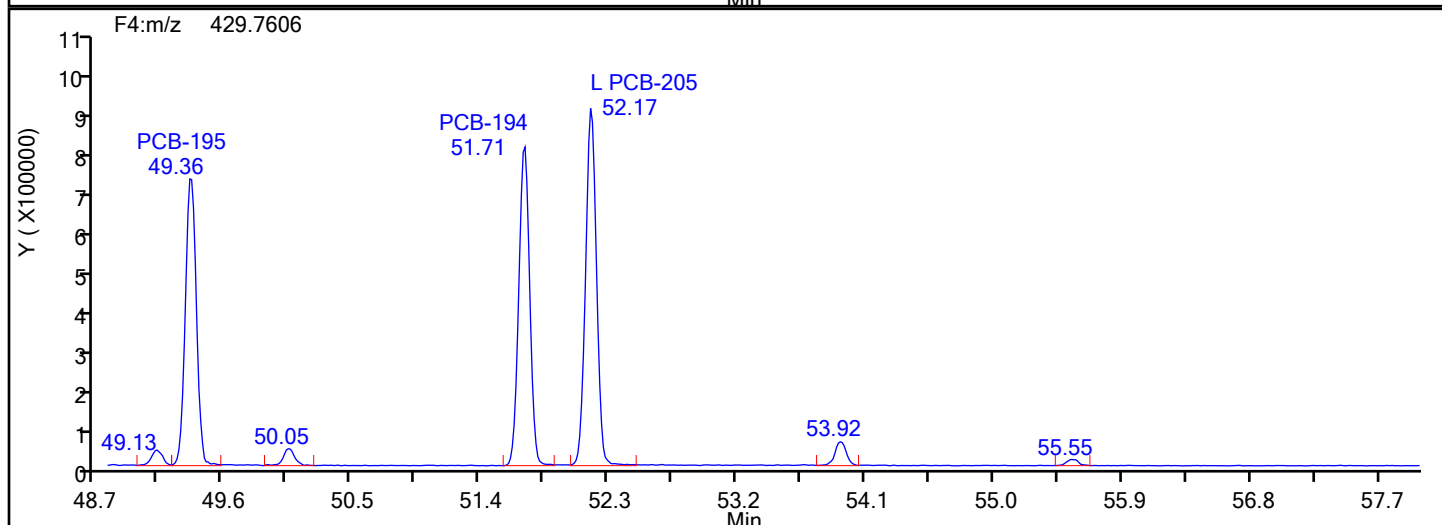
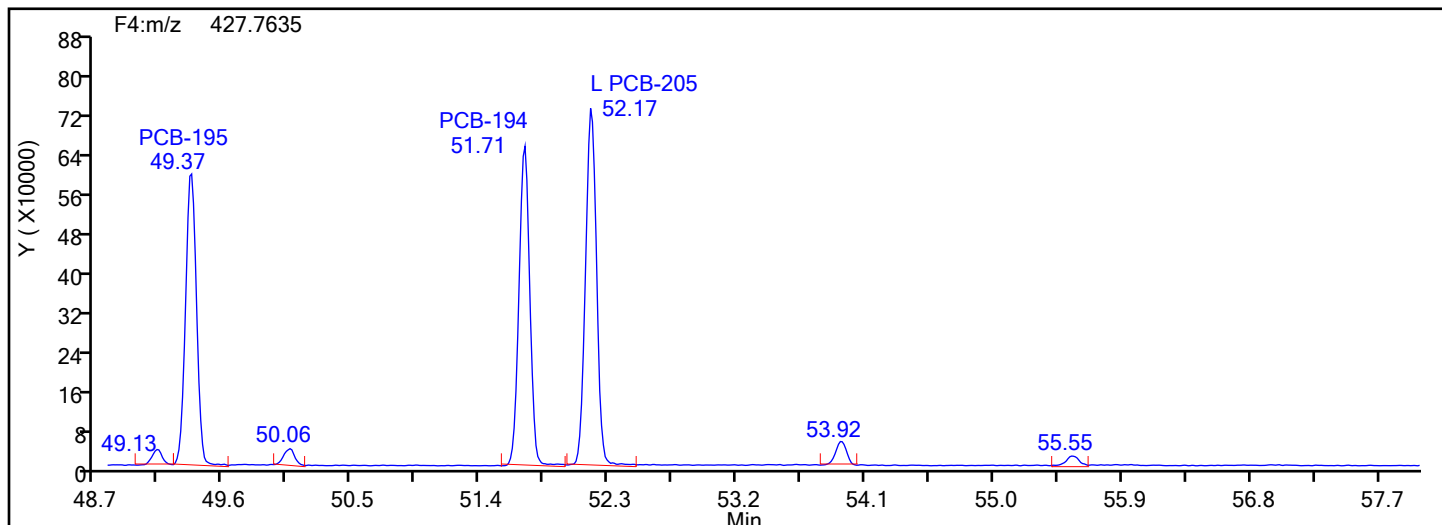
Worklist#: 88219

Sample Line#: 1

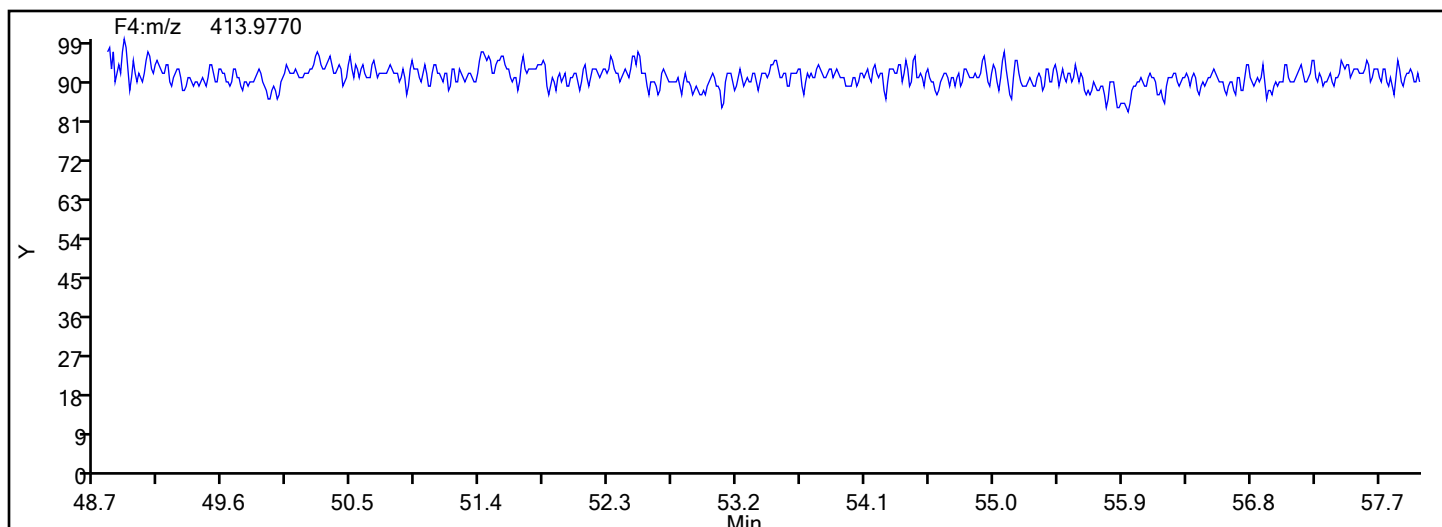
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

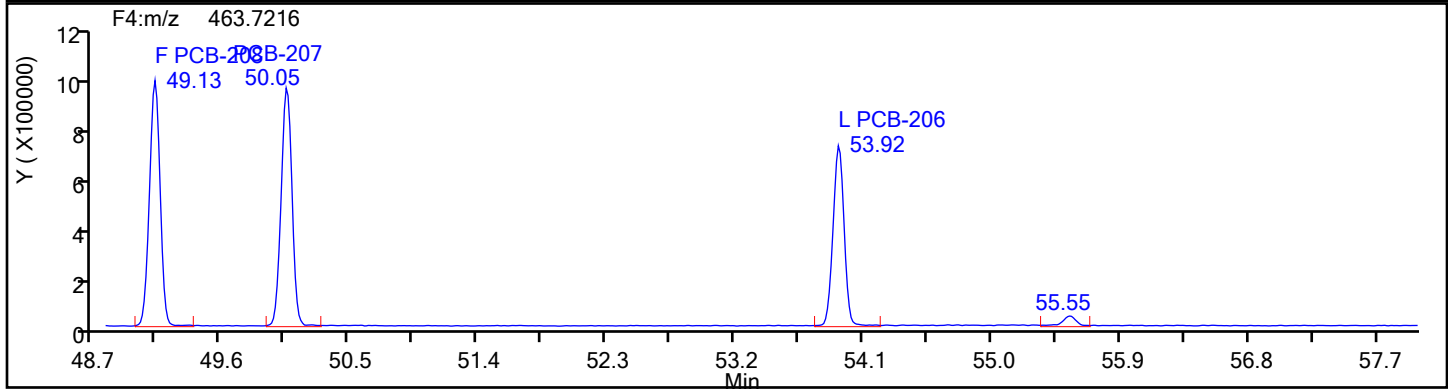
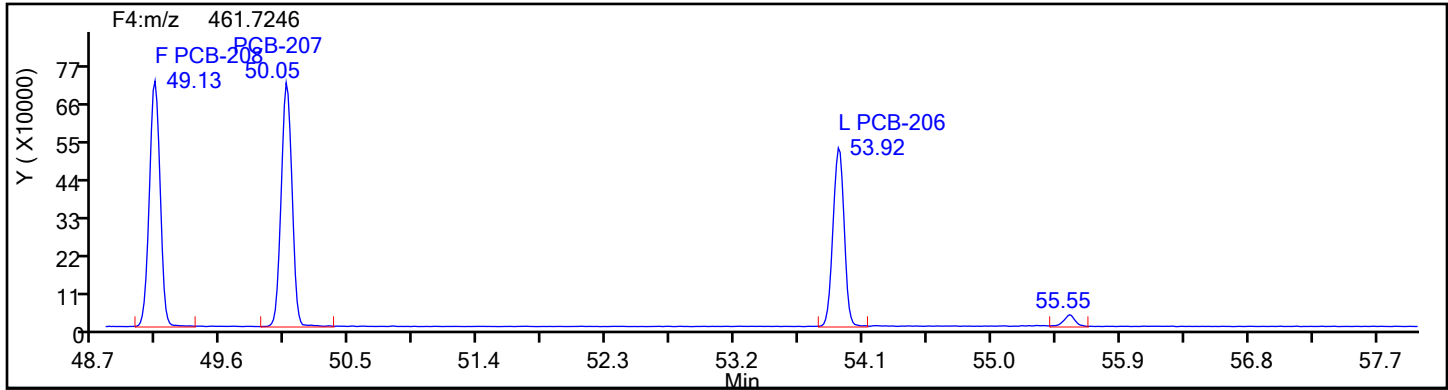


OcPCB F4 Lock Mass

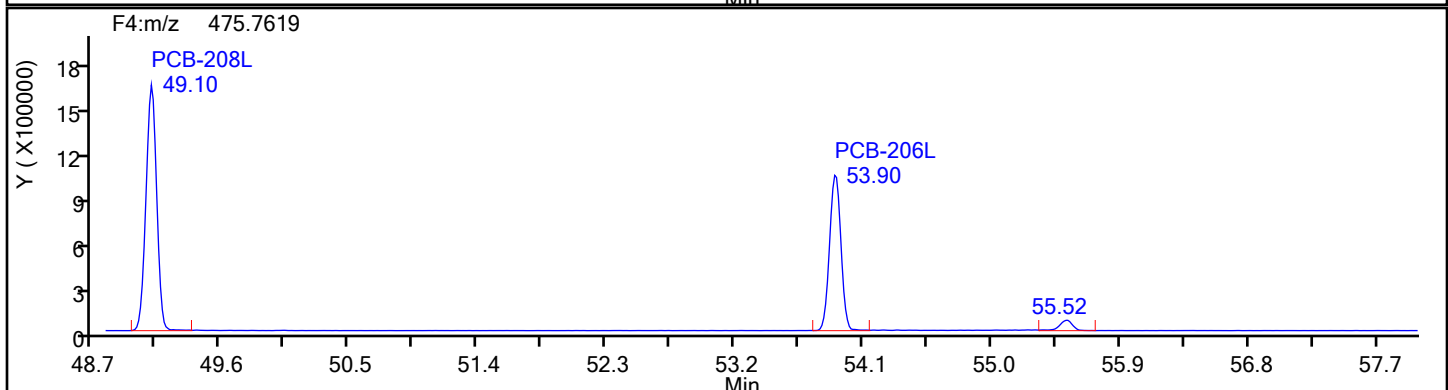
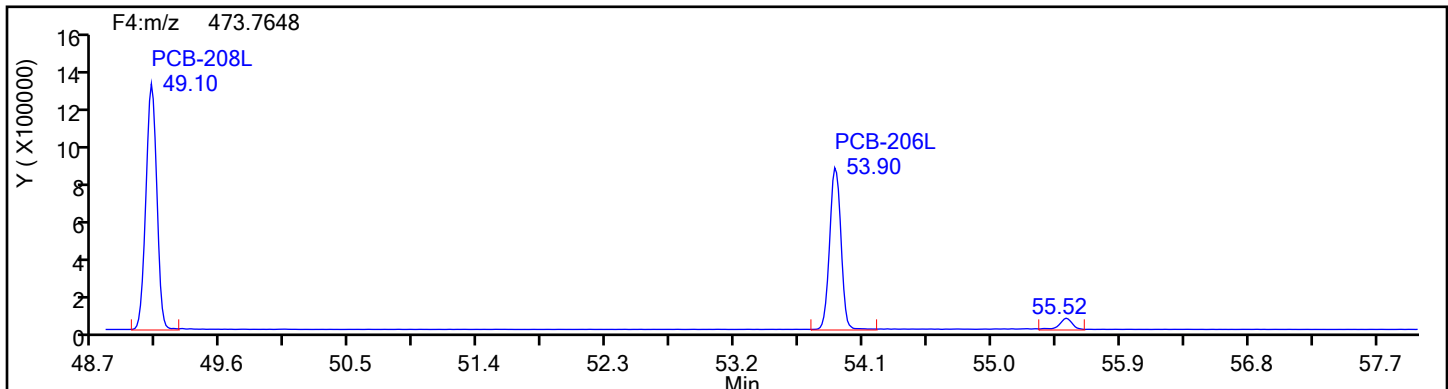


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d  
Injection Date: 28-Jun-2024 09:53:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88219 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



## NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

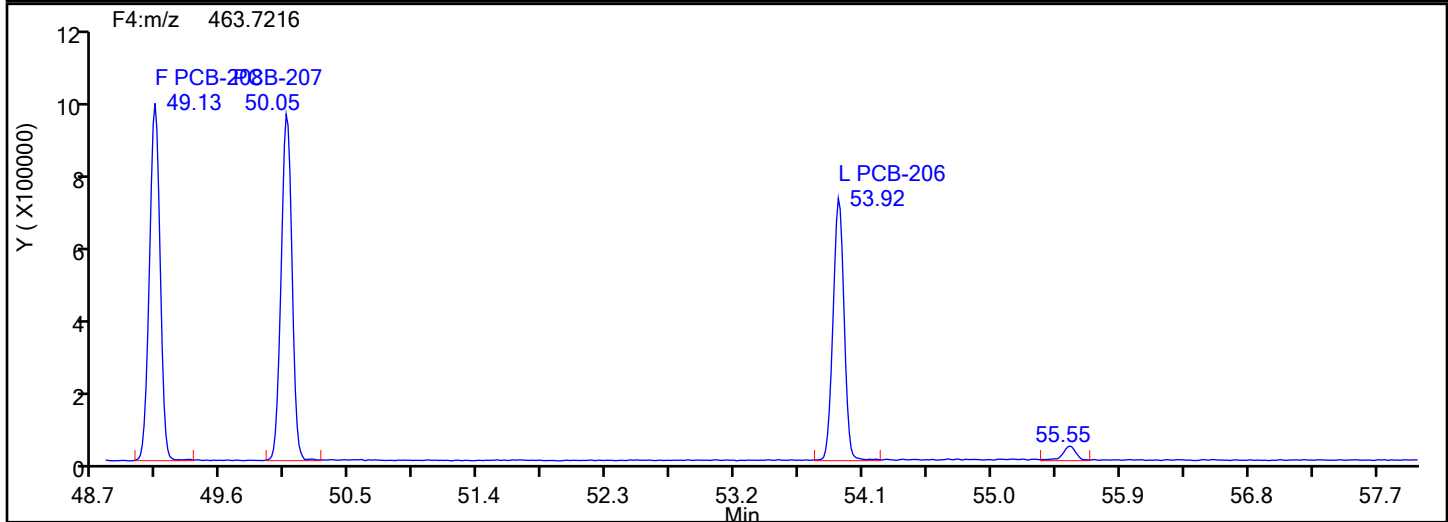
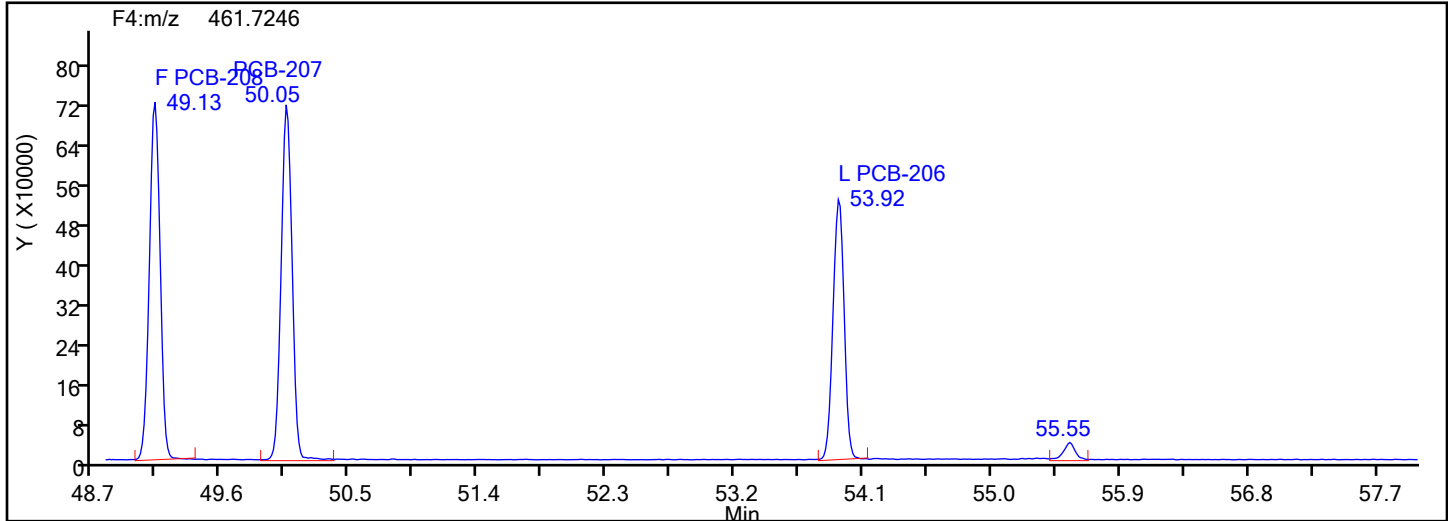
Worklist#: 88219

Sample Line#: 1

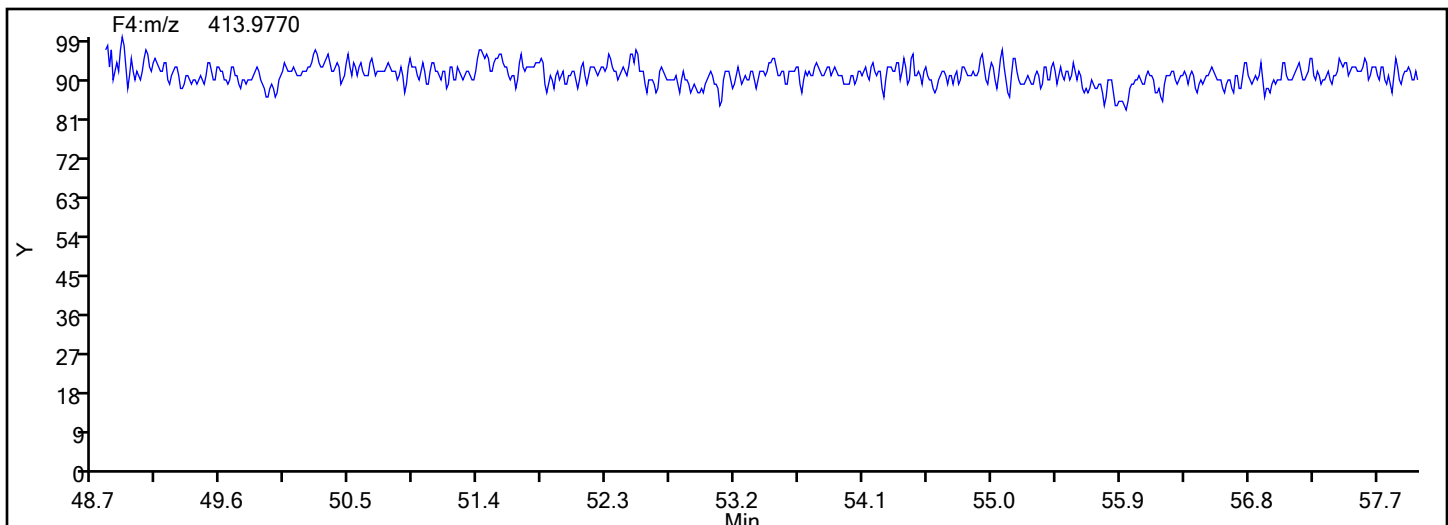
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

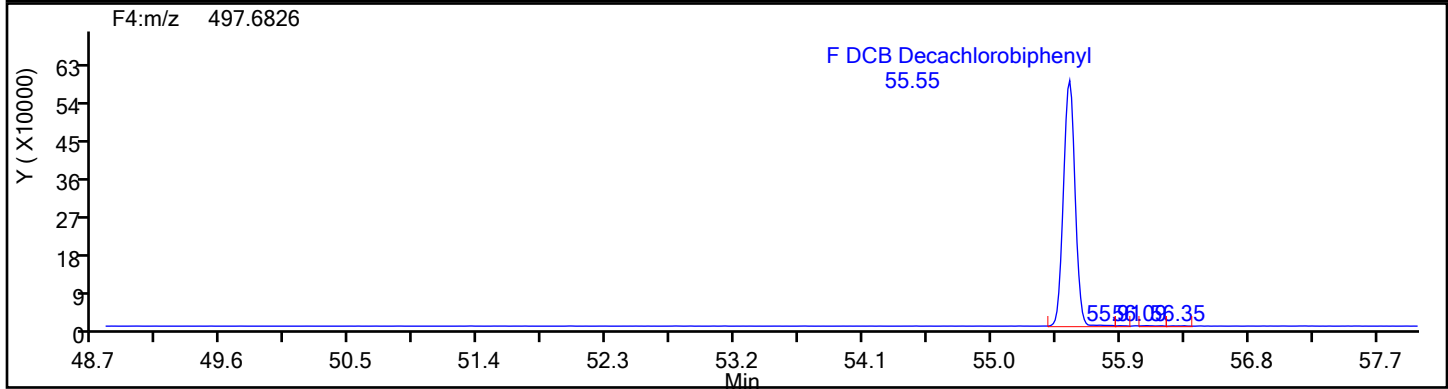
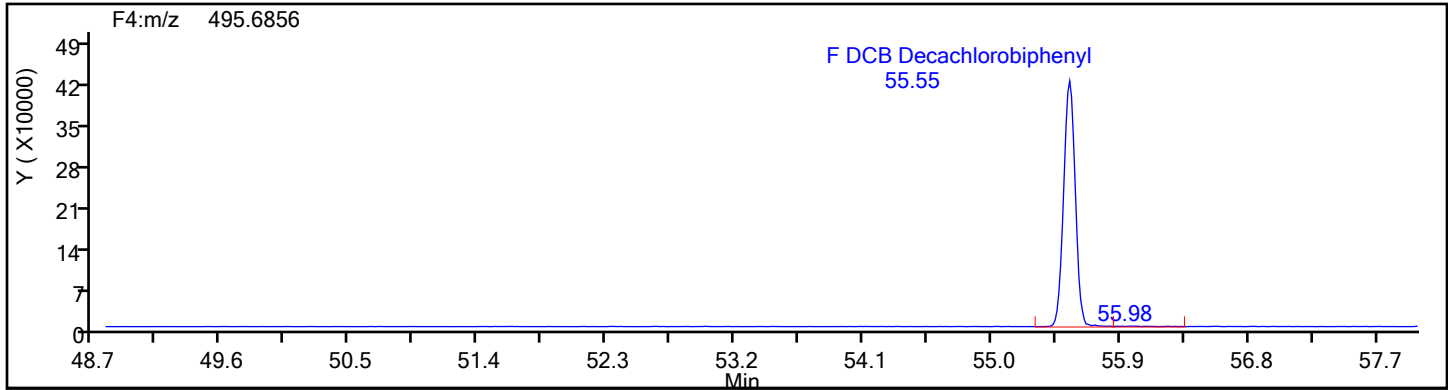
Worklist#: 88219

Sample Line#: 1

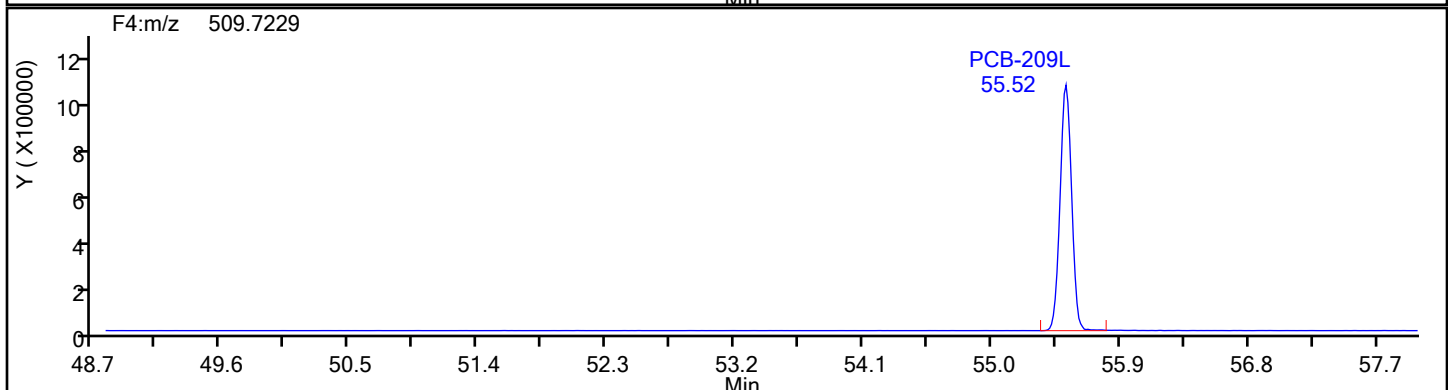
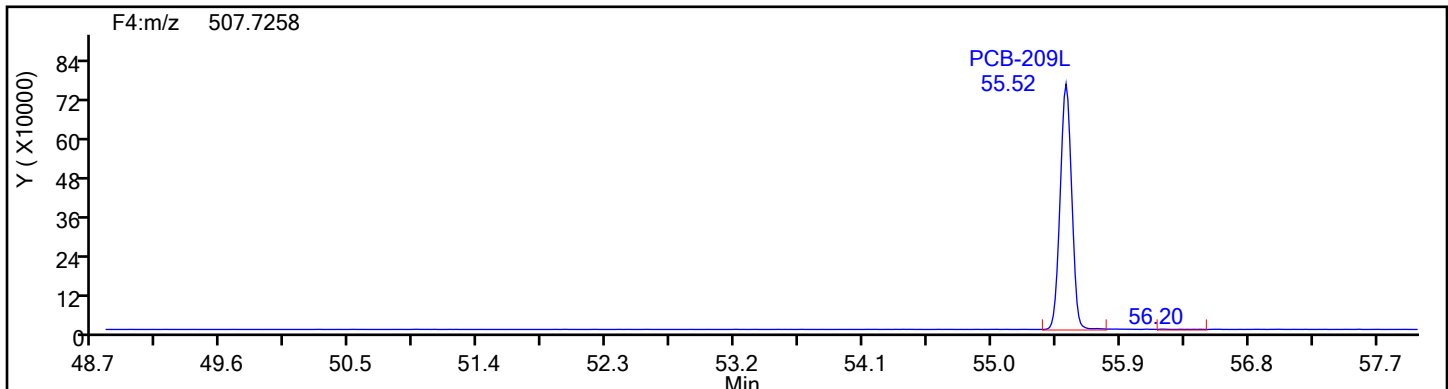
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33304.b\d2240628c1b.d

Injection Date: 28-Jun-2024 09:53:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

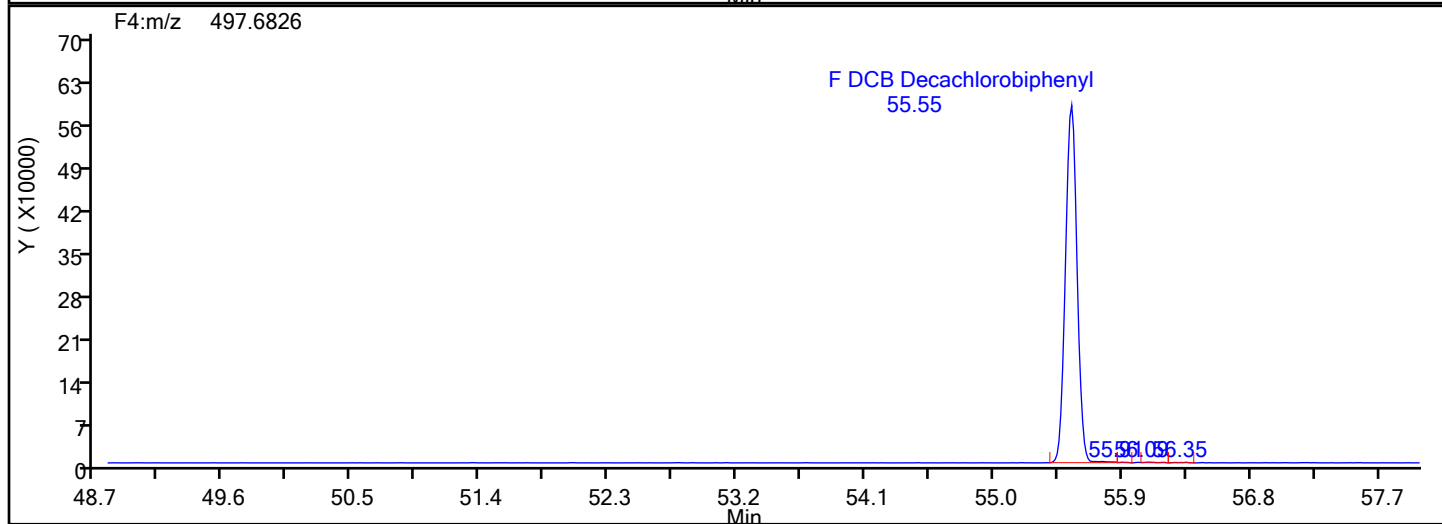
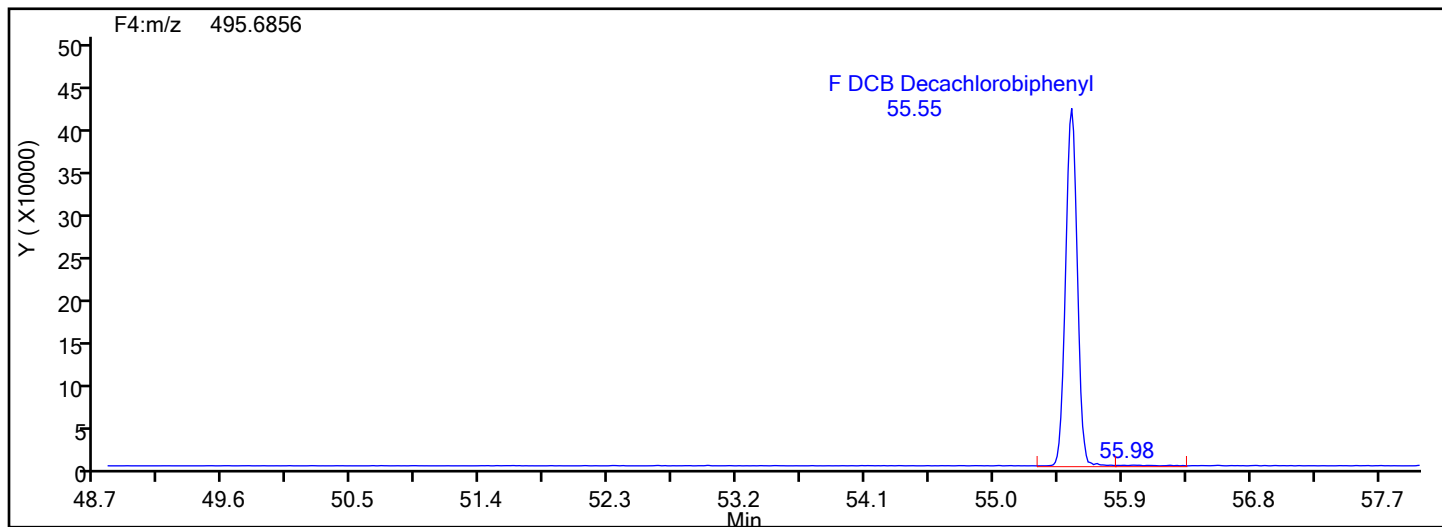
Worklist#: 88219

Sample Line#: 1

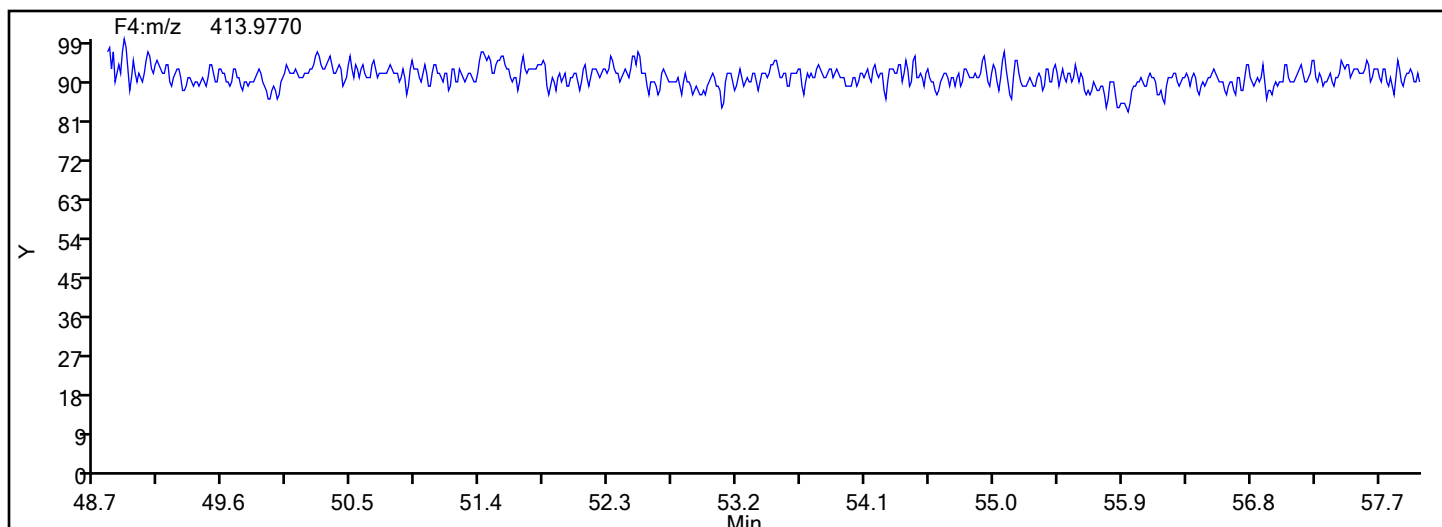
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



## DePCB F4 Lock Mass





FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88242/1 Calibration Date: 06/28/2024 23:29

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240628c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1	AveID	1.219	1.121		46.0	50.0	-8.1	25.0
PCB-2	AveID	1.181	1.090		46.2	50.0	-7.7	25.0
PCB-3	AveID	1.221	1.128		46.2	50.0	-7.6	25.0
PCB-4	AveID	1.282	1.297		50.6	50.0	1.1	25.0
PCB-10	AveID	1.315	1.408		53.6	50.0	7.1	25.0
PCB-9	AveID	1.422	1.486		52.2	50.0	4.4	25.0
PCB-7	AveID	1.413	1.451		51.3	50.0	2.7	25.0
PCB-6	AveID	1.542	1.575		51.1	50.0	2.1	25.0
PCB-5	AveID	1.339	1.393		52.0	50.0	4.0	25.0
PCB-8	AveID	1.589	1.650		51.9	50.0	3.8	25.0
PCB-19	AveID	1.281	1.354		52.8	50.0	5.7	25.0
PCB-14	AveID	1.402	1.434		51.1	50.0	2.2	25.0
PCB-18	AveID	1.765	1.824		103	100	3.3	25.0
PCB-18/30	AveID	1.765	1.824		103	100	3.3	25.0
PCB-30	AveID	1.765	1.824		103	100	3.3	25.0
PCB-11	AveID	1.295	1.368		52.8	50.0	5.6	25.0
PCB-17	AveID	1.243	1.278		51.4	50.0	2.8	25.0
PCB-12	AveID	1.336	1.382		103	100	3.4	25.0
PCB-12/13	AveID	1.336	1.382		103	100	3.4	25.0
PCB-13	AveID	1.336	1.382		103	100	3.4	25.0
PCB-27	AveID	1.833	1.945		53.1	50.0	6.1	25.0
PCB-24	AveID	1.678	1.793		53.4	50.0	6.9	25.0
PCB-16	AveID	1.129	1.219		54.0	50.0	8.0	25.0
PCB-15	AveID	1.290	1.344		52.1	50.0	4.1	25.0
PCB-54	AveID	1.273	1.280		50.3	50.0	0.5	25.0
PCB-32	AveID	1.832	1.942		53.0	50.0	6.0	25.0
PCB-34	AveID	1.128	1.043		46.2	50.0	-7.5	25.0
PCB-23	AveID	1.081	1.034		47.8	50.0	-4.4	25.0
PCB-26	AveID	1.125	1.040		92.4	100	-7.6	25.0
PCB-26/29	AveID	1.125	1.040		92.4	100	-7.6	25.0
PCB-29	AveID	1.125	1.040		92.4	100	-7.6	25.0
PCB-25	AveID	1.273	1.225		48.1	50.0	-3.8	25.0
PCB-50	AveID	0.8578	0.8412		98.1	100	-1.9	25.0
PCB-50/53	AveID	0.8578	0.8412		98.1	100	-1.9	25.0
PCB-53	AveID	0.8578	0.8412		98.1	100	-1.9	25.0
PCB-31	AveID	1.153	1.093		47.4	50.0	-5.2	25.0
PCB-20	AveID	1.172	1.077		92.0	100	-8.0	25.0
PCB-20/28	AveID	1.172	1.077		92.0	100	-8.0	25.0
PCB-28	AveID	1.172	1.077		92.0	100	-8.0	25.0
PCB-21	AveID	1.075	1.024		95.3	100	-4.7	25.0
PCB-21/33	AveID	1.075	1.024		95.3	100	-4.7	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88242/1 Calibration Date: 06/28/2024 23:29

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240628c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-33	AveID	1.075	1.024		95.3	100	-4.7	25.0
PCB-45	AveID	0.8264	0.8328		101	100	0.8	25.0
PCB-45/51	AveID	0.8264	0.8328		101	100	0.8	25.0
PCB-51	AveID	0.8264	0.8328		101	100	0.8	25.0
PCB-46	AveID	0.7101	0.6931		48.8	50.0	-2.4	25.0
PCB-22	AveID	1.193	1.101		46.1	50.0	-7.8	25.0
PCB-52	AveID	0.9194	0.9153		49.8	50.0	-0.4	25.0
PCB-43	AveID	1.033	1.046		101	100	1.3	25.0
PCB-43/73	AveID	1.033	1.046		101	100	1.3	25.0
PCB-73	AveID	1.033	1.046		101	100	1.3	25.0
PCB-36	AveID	1.107	0.998		45.1	50.0	-9.9	25.0
PCB-49	AveID	1.069	1.036		96.9	100	-3.1	25.0
PCB-49/69	AveID	1.069	1.036		96.9	100	-3.1	25.0
PCB-69	AveID	1.069	1.036		96.9	100	-3.1	25.0
PCB-39	AveID	1.158	1.065		46.0	50.0	-8.0	25.0
PCB-48	AveID	0.8399	0.8090		48.2	50.0	-3.7	25.0
PCB-104	AveID	1.009	1.052		52.1	50.0	4.3	25.0
PCB-44	AveID	0.9731	0.9348		144	150	-3.9	25.0
PCB-44/47/65	AveID	0.9731	0.9348		144	150	-3.9	25.0
PCB-47	AveID	0.9731	0.9348		144	150	-3.9	25.0
PCB-65	AveID	0.9731	0.9348		144	150	-3.9	25.0
PCB-38	AveID	1.084	0.9683		44.7	50.0	-10.7	25.0
PCB-59	AveID	1.185	1.122		142	150	-5.3	25.0
PCB-59/62/75	AveID	1.185	1.122		142	150	-5.3	25.0
PCB-62	AveID	1.185	1.122		142	150	-5.3	25.0
PCB-75	AveID	1.185	1.122		142	150	-5.3	25.0
PCB-96	AveID	1.094	1.102		50.4	50.0	0.7	25.0
PCB-42	AveID	0.8097	0.8212		50.7	50.0	1.4	25.0
PCB-35	AveID	1.130	1.012		44.8	50.0	-10.4	25.0
PCB-40	AveID	0.8863	0.8580		145	150	-3.2	25.0
PCB-40/41/71	AveID	0.8863	0.8580		145	150	-3.2	25.0
PCB-41	AveID	0.8863	0.8580		145	150	-3.2	25.0
PCB-71	AveID	0.8863	0.8580		145	150	-3.2	25.0
PCB-37	AveID	1.144	1.009		44.1	50.0	-11.8	25.0
PCB-64	AveID	1.178	1.117		47.4	50.0	-5.2	25.0
PCB-72	AveID	1.094	1.091		49.9	50.0	-0.3	25.0
PCB-103	AveID	0.8741	0.8964		51.3	50.0	2.5	25.0
PCB-68	AveID	1.253	1.236		49.3	50.0	-1.3	25.0
PCB-94	AveID	0.7640	0.7606		49.8	50.0	-0.4	25.0
PCB-57	AveID	1.082	1.084		50.1	50.0	0.2	25.0
PCB-95	AveID	0.8033	0.8387		52.2	50.0	4.4	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88242/1 Calibration Date: 06/28/2024 23:29  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240628c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-58	AveID	1.325	1.386		52.3	50.0	4.6	25.0
PCB-100	AveID	0.8429	0.8523		101	100	1.1	25.0
PCB-93	AveID	0.8429	0.8523		101	100	1.1	25.0
PCB-93/100	AveID	0.8429	0.8523		101	100	1.1	25.0
PCB-67	AveID	1.423	1.395		49.0	50.0	-2.0	25.0
PCB-102	AveID	0.8262	0.8467		103	100	2.5	25.0
PCB-98	AveID	0.8262	0.8467		103	100	2.5	25.0
PCB-98/102	AveID	0.8262	0.8467		103	100	2.5	25.0
PCB-63	AveID	1.124	1.098		48.8	50.0	-2.3	25.0
PCB-88	AveID	0.8013	0.8225		103	100	2.6	25.0
PCB-88/91	AveID	0.8013	0.8225		103	100	2.6	25.0
PCB-91	AveID	0.8013	0.8225		103	100	2.6	25.0
PCB-61	AveID	1.261	1.219		193	200	-3.4	25.0
PCB-61/70/74/76	AveID	1.261	1.219		193	200	-3.4	25.0
PCB-70	AveID	1.261	1.219		193	200	-3.4	25.0
PCB-74	AveID	1.261	1.219		193	200	-3.4	25.0
PCB-76	AveID	1.261	1.219		193	200	-3.4	25.0
PCB-84	AveID	0.7299	0.7623		52.2	50.0	4.4	25.0
PCB-66	AveID	1.258	1.265		50.3	50.0	0.6	25.0
PCB-55	AveID	1.324	1.337		50.5	50.0	1.0	25.0
PCB-89	AveID	0.7798	0.7946		51.0	50.0	1.9	25.0
PCB-56	AveID	1.233	1.208		49.0	50.0	-2.0	25.0
PCB-121	AveID	1.296	1.333		51.4	50.0	2.8	25.0
PCB-60	AveID	1.123	1.087		48.4	50.0	-3.2	25.0
PCB-92	AveID	0.8546	0.8835		51.7	50.0	3.4	25.0
PCB-80	AveID	1.324	1.329		50.2	50.0	0.3	25.0
PCB-155	AveID	0.9444	0.9605		50.9	50.0	1.7	25.0
PCB-101	AveID	0.9550	0.9780		154	150	2.4	25.0
PCB-113	AveID	0.9550	0.9780		154	150	2.4	25.0
PCB-152	AveID	0.9895	0.9551		48.3	50.0	-3.5	25.0
PCB-90	AveID	0.9550	0.9780		154	150	2.4	25.0
PCB-90/101/113	AveID	0.9550	0.9780		154	150	2.4	25.0
PCB-150	AveID	1.013	1.024		50.5	50.0	1.1	25.0
PCB-136	AveID	1.012	1.003		49.6	50.0	-0.8	25.0
PCB-83	AveID	0.8385	0.8676		104	100	3.5	25.0
PCB-83/99	AveID	0.8385	0.8676		104	100	3.5	25.0
PCB-99	AveID	0.8385	0.8676		104	100	3.5	25.0
PCB-112	AveID	1.411	1.449		51.4	50.0	2.7	25.0
PCB-145	AveID	0.9685	0.9750		50.3	50.0	0.7	25.0
PCB-109	AveID	1.047	1.063		305	300	1.5	25.0
PCB-119	AveID	1.047	1.063		305	300	1.5	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88242/1 Calibration Date: 06/28/2024 23:29  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240628c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-125	AveID	1.047	1.063		305	300	1.5	25.0
PCB-86	AveID	1.047	1.063		305	300	1.5	25.0
PCB-86/87/97/109/119/125	AveID	1.047	1.063		305	300	1.5	25.0
PCB-87	AveID	1.047	1.063		305	300	1.5	25.0
PCB-97	AveID	1.047	1.063		305	300	1.5	25.0
PCB-79	AveID	1.437	1.362		47.4	50.0	-5.2	25.0
PCB-78	AveID	1.162	1.083		46.6	50.0	-6.8	25.0
PCB-116	AveID	1.041	1.046		151	150	0.5	25.0
PCB-117	AveID	1.041	1.046		151	150	0.5	25.0
PCB-85	AveID	1.041	1.046		151	150	0.5	25.0
PCB-85/116/117	AveID	1.041	1.046		151	150	0.5	25.0
PCB-110	AveID	1.192	1.212		102	100	1.7	25.0
PCB-110/115	AveID	1.192	1.212		102	100	1.7	25.0
PCB-115	AveID	1.192	1.212		102	100	1.7	25.0
PCB-81	AveID	1.080	1.044		48.3	50.0	-3.3	25.0
PCB-148	AveID	0.7603	0.7538		49.6	50.0	-0.8	25.0
PCB-82	AveID	0.8303	0.8529		51.4	50.0	2.7	25.0
PCB-77	AveID	1.084	1.059		48.9	50.0	-2.2	25.0
PCB-111	AveID	1.213	1.250		51.6	50.0	3.1	25.0
PCB-135	AveID	0.7256	0.7280		100	100	0.3	25.0
PCB-135/151	AveID	0.7256	0.7280		100	100	0.3	25.0
PCB-151	AveID	0.7256	0.7280		100	100	0.3	25.0
PCB-120	AveID	1.476	1.488		50.4	50.0	0.8	25.0
PCB-154	AveID	0.8129	0.8120		49.9	50.0	-0.1	25.0
PCB-144	AveID	0.7852	0.7918		50.4	50.0	0.8	25.0
PCB-147	AveID	0.8950	0.8826		98.6	100	-1.4	25.0
PCB-147/149	AveID	0.8950	0.8826		98.6	100	-1.4	25.0
PCB-149	AveID	0.8950	0.8826		98.6	100	-1.4	25.0
PCB-134	AveID	0.7967	0.7698		96.6	100	-3.4	25.0
PCB-134/143	AveID	0.7967	0.7698		96.6	100	-3.4	25.0
PCB-143	AveID	0.7967	0.7698		96.6	100	-3.4	25.0
PCB-108	AveID	1.141	1.012		88.7	100	-11.3	25.0
PCB-108/124	AveID	1.141	1.012		88.7	100	-11.3	25.0
PCB-124	AveID	1.141	1.012		88.7	100	-11.3	25.0
PCB-139	AveID	0.8769	0.8326		95.0	100	-5.1	25.0
PCB-139/140	AveID	0.8769	0.8326		95.0	100	-5.1	25.0
PCB-140	AveID	0.8769	0.8326		95.0	100	-5.1	25.0
PCB-107	AveID	1.212	1.142		47.1	50.0	-5.8	25.0
PCB-131	AveID	0.7503	0.7346		49.0	50.0	-2.1	25.0
PCB-123	AveID	1.072	1.006		46.9	50.0	-6.2	25.0
PCB-106	AveID	1.084	1.013		46.7	50.0	-6.6	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88242/1 Calibration Date: 06/28/2024 23:29

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240628c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-142	AveID	0.7507	0.7486		49.9	50.0	-0.3	25.0
PCB-118	AveID	1.206	1.106		45.9	50.0	-8.3	25.0
PCB-132	AveID	0.7489	0.7086		47.3	50.0	-5.4	25.0
PCB-122	AveID	0.9567	0.8984		47.0	50.0	-6.1	25.0
PCB-114	AveID	1.084	1.022		47.2	50.0	-5.7	25.0
PCB-188	AveID	1.135	1.132		49.9	50.0	-0.2	25.0
PCB-133	AveID	0.8096	0.7771		48.0	50.0	-4.0	25.0
PCB-179	AveID	1.428	1.388		48.6	50.0	-2.8	25.0
PCB-165	AveID	1.025	1.024		50.0	50.0	-0.0	25.0
PCB-105	AveID	1.188	1.127		47.4	50.0	-5.1	25.0
PCB-146	AveID	0.9637	0.9486		49.2	50.0	-1.6	25.0
PCB-184	AveID	1.367	1.361		49.8	50.0	-0.4	25.0
PCB-161	AveID	1.129	1.073		47.5	50.0	-4.9	25.0
PCB-176	AveID	1.233	1.204		48.8	50.0	-2.3	25.0
PCB-153	AveID	1.094	1.085		99.2	100	-0.8	25.0
PCB-153/168	AveID	1.094	1.085		99.2	100	-0.8	25.0
PCB-168	AveID	1.094	1.085		99.2	100	-0.8	25.0
PCB-141	AveID	0.8755	0.8182		46.7	50.0	-6.6	25.0
PCB-186	AveID	1.474	1.495		50.7	50.0	1.4	25.0
PCB-130	AveID	0.7051	0.6763		48.0	50.0	-4.1	25.0
PCB-127	AveID	1.139	1.059		46.5	50.0	-7.1	25.0
PCB-137	AveID	0.7767	0.7667		49.4	50.0	-1.3	25.0
PCB-164	AveID	1.038	1.015		48.9	50.0	-2.2	25.0
PCB-129	AveID	0.9464	0.9014		191	200	-4.8	25.0
PCB-129/138/160/163	AveID	0.9464	0.9014		191	200	-4.8	25.0
PCB-138	AveID	0.9464	0.9014		191	200	-4.8	25.0
PCB-160	AveID	0.9464	0.9014		191	200	-4.8	25.0
PCB-163	AveID	0.9464	0.9014		191	200	-4.8	25.0
PCB-158	AveID	1.311	1.246		47.5	50.0	-4.9	25.0
PCB-178	AveID	0.8946	0.9022		50.4	50.0	0.9	25.0
PCB-175	AveID	0.9524	0.9654		50.7	50.0	1.4	25.0
PCB-126	AveID	1.098	1.081		49.2	50.0	-1.5	25.0
PCB-128	AveID	0.9829	0.9486		96.5	100	-3.5	25.0
PCB-128/166	AveID	0.9829	0.9486		96.5	100	-3.5	25.0
PCB-166	AveID	0.9829	0.9486		96.5	100	-3.5	25.0
PCB-187	AveID	1.102	1.119		50.8	50.0	1.5	25.0
PCB-182	AveID	0.9247	0.9589		51.9	50.0	3.7	25.0
PCB-183	AveID	0.9825	0.9571		97.4	100	-2.6	25.0
PCB-183/185	AveID	0.9825	0.9571		97.4	100	-2.6	25.0
PCB-185	AveID	0.9825	0.9571		97.4	100	-2.6	25.0
PCB-174	AveID	0.9642	0.9865		51.2	50.0	2.3	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88242/1 Calibration Date: 06/28/2024 23:29

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240628c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-159	AveID	1.386	1.314		47.4	50.0	-5.2	25.0
PCB-162	AveID	1.257	1.200		47.7	50.0	-4.5	25.0
PCB-177	AveID	0.9773	0.9782		50.1	50.0	0.0	25.0
PCB-202	AveID	1.036	1.088		52.5	50.0	5.0	25.0
PCB-167	AveID	1.116	1.076		48.2	50.0	-3.6	25.0
PCB-181	AveID	0.9505	0.9534		50.2	50.0	0.3	25.0
PCB-171	AveID	0.9336	0.9040		96.8	100	-3.2	25.0
PCB-171/173	AveID	0.9336	0.9040		96.8	100	-3.2	25.0
PCB-173	AveID	0.9336	0.9040		96.8	100	-3.2	25.0
PCB-201	AveID	0.9754	1.009		51.7	50.0	3.5	25.0
PCB-156	AveID	1.110	1.088		98.0	100	-2.0	25.0
PCB-156/157	AveID	1.110	1.088		98.0	100	-2.0	25.0
PCB-157	AveID	1.110	1.088		98.0	100	-2.0	25.0
PCB-204	AveID	1.049	1.053		50.2	50.0	0.4	25.0
PCB-197	AveID	1.146	1.115		48.7	50.0	-2.7	25.0
PCB-200	AveID	1.007	1.067		53.0	50.0	5.9	25.0
PCB-172	AveID	0.8519	0.8687		51.0	50.0	2.0	25.0
PCB-192	AveID	1.346	1.425		52.9	50.0	5.8	25.0
PCB-180	AveID	1.168	1.193		102	100	2.2	25.0
PCB-180/193	AveID	1.168	1.193		102	100	2.2	25.0
PCB-193	AveID	1.168	1.193		102	100	2.2	25.0
PCB-191	AveID	1.289	1.358		52.7	50.0	5.3	25.0
PCB-170	AveID	1.187	1.157		48.8	50.0	-2.5	25.0
PCB-190	AveID	1.332	1.373		51.5	50.0	3.1	25.0
PCB-169	AveID	1.163	1.142		49.1	50.0	-1.8	25.0
PCB-198	AveID	0.8698	0.8879		102	100	2.1	25.0
PCB-198/199	AveID	0.8698	0.8879		102	100	2.1	25.0
PCB-199	AveID	0.8698	0.8879		102	100	2.1	25.0
PCB-196	AveID	0.7806	0.7982		51.1	50.0	2.3	25.0
PCB-203	AveID	0.9292	0.9927		53.4	50.0	6.8	25.0
PCB-208	AveID	1.137	1.127		49.5	50.0	-0.9	25.0
PCB-195	AveID	0.8263	0.8232		49.8	50.0	-0.4	25.0
PCB-189	AveID	0.9633	0.8969		46.6	50.0	-6.9	25.0
PCB-207	AveID	1.376	1.334		48.5	50.0	-3.0	25.0
PCB-194	AveID	0.9735	0.9316		47.9	50.0	-4.3	25.0
PCB-205	AveID	1.088	1.079		49.6	50.0	-0.8	25.0
PCB-206	AveID	1.335	1.251		46.9	50.0	-6.2	25.0
PCB-209	AveID	1.100	1.122		51.0	50.0	1.9	25.0
PCB-1L	Ave	1.611	1.604		99.6	100	-0.4	30.0
PCB-3L	Ave	1.589	1.556		97.9	100	-2.1	30.0
PCB-4L	Ave	0.6475	0.6456		99.7	100	-0.3	30.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88242/1 Calibration Date: 06/28/2024 23:29

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

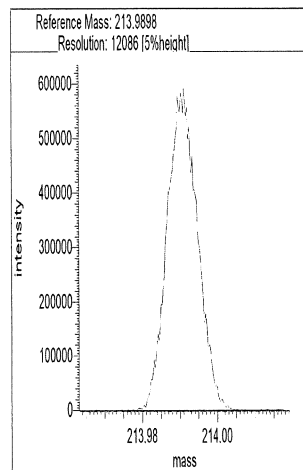
Lab File ID: d2240628c2a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-19L	Ave	0.6285	0.6291		100	100	0.0	30.0
PCB-15L	Ave	1.079	1.042		96.6	100	-3.4	30.0
PCB-54L	Ave	0.5562	0.5885		106	100	5.8	30.0
PCB-104L	Ave	1.216	1.228		101	100	1.0	30.0
PCB-37L	Ave	0.8749	0.8379		95.8	100	-4.2	30.0
PCB-155L	Ave	1.085	1.131		104	100	4.3	30.0
PCB-81L	Ave	1.247	1.215		97.5	100	-2.5	30.0
PCB-77L	Ave	1.321	1.285		97.3	100	-2.7	30.0
PCB-123L	Ave	0.9731	0.997		103	100	2.5	30.0
PCB-118L	Ave	1.010	1.046		104	100	3.5	30.0
PCB-114L	Ave	0.9949	1.004		101	100	0.9	30.0
PCB-188L	Ave	1.313	1.316		100	100	0.2	30.0
PCB-105L	Ave	0.9514	0.9599		101	100	0.9	30.0
PCB-126L	Ave	0.9439	0.9662		102	100	2.4	30.0
PCB-202L	Ave	0.9818	0.9779		99.6	100	-0.4	30.0
PCB-167L	Ave	1.257	1.274		101	100	1.3	30.0
PCB-156L	Ave	1.211	1.238		205	200	2.3	30.0
PCB-156L/157L	Ave	1.211	1.238		205	200	2.3	30.0
PCB-157L	Ave	1.211	1.238		205	200	2.3	30.0
PCB-170L	Ave	0.8362	0.8573		103	100	2.5	30.0
PCB-169L	Ave	1.244	1.274		102	100	2.4	30.0
PCB-208L	Ave	0.9576	1.010		106	100	5.5	30.0
PCB-189L	Ave	1.441	1.323		91.8	100	-8.2	30.0
PCB-205L	Ave	1.179	1.189		101	100	0.9	30.0
PCB-206L	Ave	0.6947	0.7432		107	100	7.0	30.0
PCB-209L	Ave	0.6669	0.7308		110	100	9.6	30.0
PCB-8L	AveID	1.207	1.140		47.3	50.0	-5.5	25.0
PCB-28L	Ave	1.049	0.9815		46.8	50.0	-6.5	30.0
PCB-95L	AveID	0.7218	0.7125		49.4	50.0	-1.3	25.0
PCB-79L	AveID	1.002	1.001		49.9	50.0	-0.1	25.0
PCB-111L	Ave	1.370	1.287		47.0	50.0	-6.1	30.0
PCB-153L	AveID	0.9169	0.8157		44.5	50.0	-11.0	25.0
PCB-178L	Ave	1.031	0.9502		46.1	50.0	-7.9	30.0

**eurofins** Environment Testing  
TestAmerica

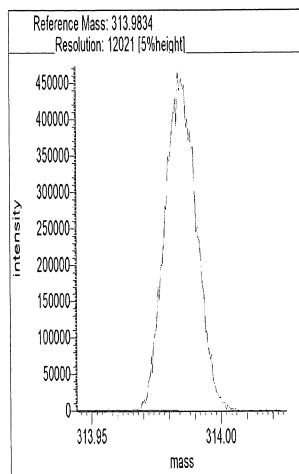
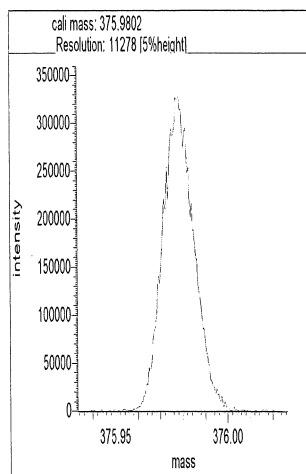
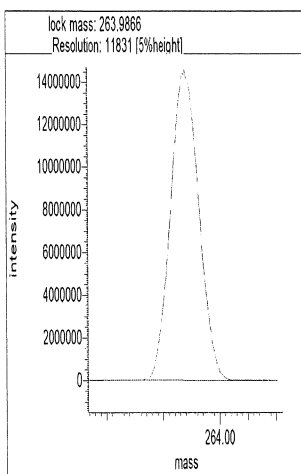
-d7240628v3

Lock mass 168.9883 [m/z] Resolution: 12551 [5%height]  
 Cali. mass 263.9866 [m/z] Resolution: 11149 [5%height]  
 Ref. mass 213.9898 [m/z] Resolution: 12086 [5%height]



Lock mass 263.9866 [m/z] Resolution: 11831 [5%height]  
 Cali. mass 375.9802 [m/z] Resolution: 11278 [5%height]  
 Ref. mass 313.9834 [m/z] Resolution: 12021 [5%height]



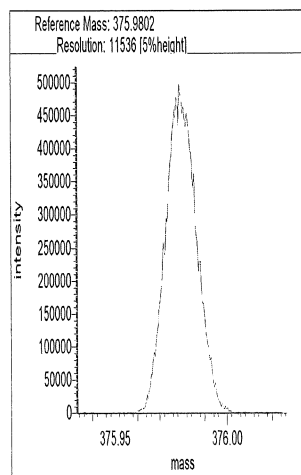
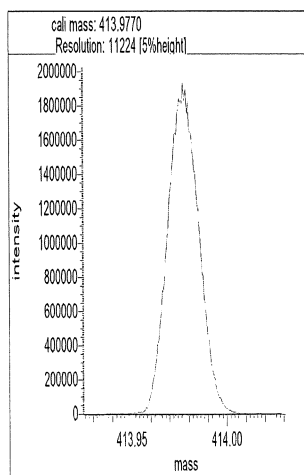
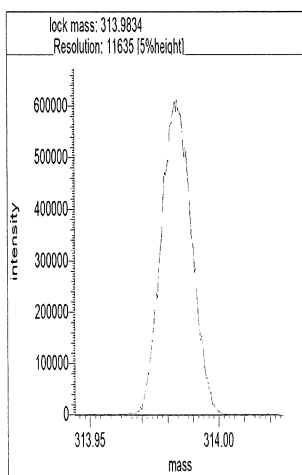


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11635 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 11224 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 11536 [5%height]

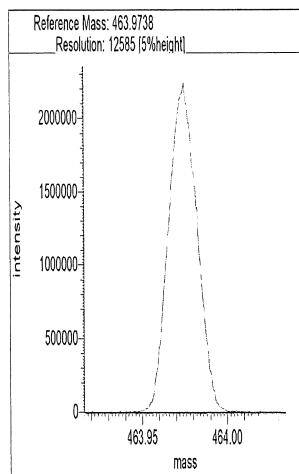
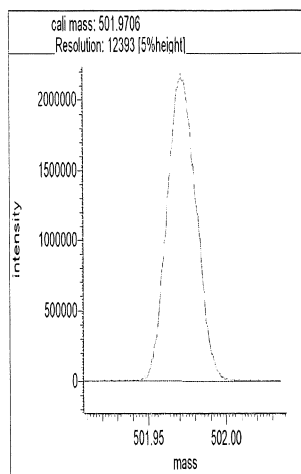
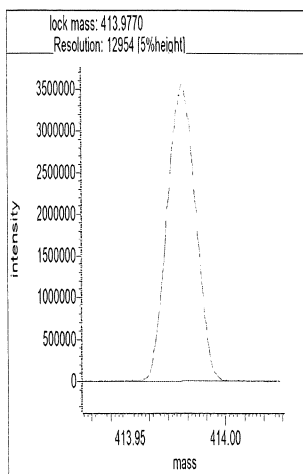


### Segment 4

Lock mass 413.9770 [m/z] Resolution: 12954 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 12393 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 12585 [5%height]



## Reports

```

23:21:37: Peak matching procedure started
23:21:38:
23:21:38: Reference mass: 168.98827
23:21:39: Sample mass: 214.0
23:21:39:
23:21:40: Finding reference mass
23:21:41: Finding sample mass
23:21:41:
23:21:47: [1] 213.9904 amu, mean: 213.9904
23:21:50: [2] 213.9901 amu, mean: 213.9903 SD: 0.15 mmu or: 0.69 ppm
23:21:53: [3] 213.9904 amu, mean: 213.9903 SD: 0.14 mmu or: 0.66 ppm
23:21:56: [4] 213.9905 amu, mean: 213.9903 SD: 0.14 mmu or: 0.65 ppm
23:21:57:
23:21:57: Stop requested. Please wait for procedure to finish.
23:21:57:
23:21:59:
23:22:00: Peakmatching stopped

```


Signature

u 6-28-24

## Reports

23:22:17: Peak matching procedure started  
23:22:17:  
23:22:18: Reference mass: 213.98975  
23:22:18: Sample mass: 264.0  
23:22:19:  
23:22:19: Finding reference mass  
23:22:20: Finding sample mass  
23:22:21:  
23:22:26: [1] 263.9870 amu, mean: 263.9870  
23:22:30: [2] 263.9871 amu, mean: 263.9871 SD: 0.03 mmu or: 0.13 ppm  
23:22:33: [3] 263.9870 amu, mean: 263.9870 SD: 0.05 mmu or: 0.20 ppm  
23:22:36: [4] 263.9871 amu, mean: 263.9871 SD: 0.06 mmu or: 0.21 ppm  
23:22:37:  
23:22:37: Stop requested. Please wait for procedure to finish.  
23:22:37:  
23:22:39:  
23:22:40: Peakmatching stopped

Signature

Handwritten signature in black ink, appearing to be "L 6-28-24".

## Reports

23:22:58: Peak matching procedure started  
23:22:59:  
23:22:59: Reference mass: 263.98656  
23:23:00: Sample mass: 314.0  
23:23:00:  
23:23:01: Finding reference mass  
23:23:02: Finding sample mass  
23:23:02:  
23:23:08: [1] 313.9835 amu, mean: 313.9835  
23:23:11: [2] 313.9837 amu, mean: 313.9836 SD: 0.16 mmu or: 0.50 ppm  
23:23:14: [3] 313.9839 amu, mean: 313.9837 SD: 0.22 mmu or: 0.70 ppm  
23:23:18: [4] 313.9837 amu, mean: 313.9837 SD: 0.18 mmu or: 0.57 ppm  
23:23:18:  
23:23:18: Stop requested. Please wait for procedure to finish.  
23:23:18:  
23:23:21:  
23:23:21: Peakmatching stopped

Signature

A handwritten signature in black ink, appearing to be 'Lh 6-28-24', written over a horizontal line.

## Reports

23:23:54: Peak matching procedure started  
23:23:54:  
23:23:55: Reference mass: 313.98336  
23:23:55: Sample mass: 376.0  
23:23:56:  
23:23:56: Finding reference mass  
23:23:57: Finding sample mass  
23:23:58:  
23:24:03: [1] 375.9803 amu, mean: 375.9803  
23:24:07: [2] 375.9804 amu, mean: 375.9803 SD: 0.05 mmu or: 0.13 ppm  
23:24:10: [3] 375.9809 amu, mean: 375.9805 SD: 0.31 mmu or: 0.82 ppm  
23:24:13: [4] 375.9808 amu, mean: 375.9806 SD: 0.28 mmu or: 0.75 ppm  
23:24:14:  
23:24:14: Stop requested. Please wait for procedure to finish.  
23:24:14:  
23:24:16:  
23:24:17: Peakmatching stopped

Signature

Handwritten signature in black ink, appearing to be "L 6-28-24".

## Reports

23:23:54: Peak matching procedure started  
23:23:54:  
23:23:55: Reference mass: 313.98336  
23:23:55: Sample mass: 376.0  
23:23:56:  
23:23:56: Finding reference mass  
23:23:57: Finding sample mass  
23:23:58:  
23:24:03: [1] 375.9803 amu, mean: 375.9803  
23:24:07: [2] 375.9804 amu, mean: 375.9803 SD: 0.05 mmu or: 0.13 ppm  
23:24:10: [3] 375.9809 amu, mean: 375.9805 SD: 0.31 mmu or: 0.82 ppm  
23:24:13: [4] 375.9808 amu, mean: 375.9806 SD: 0.28 mmu or: 0.75 ppm  
23:24:14:  
23:24:14: Stop requested. Please wait for procedure to finish.  
23:24:14:  
23:24:16:  
23:24:17: Peakmatching stopped

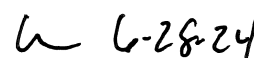
Signature

A handwritten signature in black ink, appearing to be "L 6-28-24".

## Reports

23:24:38: Peak matching procedure started  
23:24:38:  
23:24:39: Reference mass: 375.98017  
23:24:39: Sample mass: 414.0  
23:24:40:  
23:24:40: Finding reference mass  
23:24:41: Finding sample mass  
23:24:42:  
23:24:47: [1] 413.9767 amu, mean: 413.9767  
23:24:50: [2] 413.9773 amu, mean: 413.9770 SD: 0.46 mmu or: 1.12 ppm  
23:24:54: [3] 413.9771 amu, mean: 413.9770 SD: 0.34 mmu or: 0.82 ppm  
23:24:57: [4] 413.9771 amu, mean: 413.9771 SD: 0.28 mmu or: 0.68 ppm  
23:24:57:  
23:24:57: Stop requested. Please wait for procedure to finish.  
23:24:57:  
23:25:00:  
23:25:00: Peakmatching stopped

Signature






## Reports

23:25:19: Peak matching procedure started  
23:25:19:  
23:25:20: Reference mass: 413.97698  
23:25:20: Sample mass: 464.0  
23:25:21:  
23:25:21: Finding reference mass  
23:25:22: Finding sample mass  
23:25:23:  
23:25:29: [1] 463.9743 amu, mean: 463.9743  
23:25:32: [2] 463.9740 amu, mean: 463.9742 SD: 0.23 mmu or: 0.50 ppm  
23:25:35: [3] 463.9740 amu, mean: 463.9741 SD: 0.20 mmu or: 0.43 ppm  
23:25:38: [4] 463.9752 amu, mean: 463.9744 SD: 0.56 mmu or: 1.21 ppm  
23:25:39:  
23:25:39: Stop requested. Please wait for procedure to finish.  
23:25:39:  
23:25:41:  
23:25:42: Peakmatching stopped

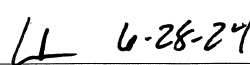
Signature

A handwritten signature in black ink, appearing to be 'W 6-28-24', written over a horizontal line.

## Reports

23:26:15: Peak matching procedure started  
23:26:15:  
23:26:16: Reference mass: 463.97378  
23:26:16: Sample mass: 502.0  
23:26:17:  
23:26:17: Finding reference mass  
23:26:18: Finding sample mass  
23:26:19:  
23:26:24: [1] 501.9704 amu, mean: 501.9704  
23:26:28: [2] 501.9708 amu, mean: 501.9706 SD: 0.28 mmu or: 0.56 ppm  
23:26:31: [3] 501.9706 amu, mean: 501.9706 SD: 0.20 mmu or: 0.40 ppm  
23:26:34: [4] 501.9711 amu, mean: 501.9708 SD: 0.30 mmu or: 0.60 ppm  
23:26:34:  
23:26:34: Stop requested. Please wait for procedure to finish.  
23:26:34:  
23:26:37:  
23:26:38: Peakmatching stopped

Signature

Handwritten signature in black ink, appearing to be "LL 6-28-24".

# Resolution Check Report ( DFS SN: 3190 )

Date: 29 Jun 2024 10:48  
MID Experiment: ResCheck\_1668  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43KnxPCB.lua  
Status: RESOLUTION PASSED

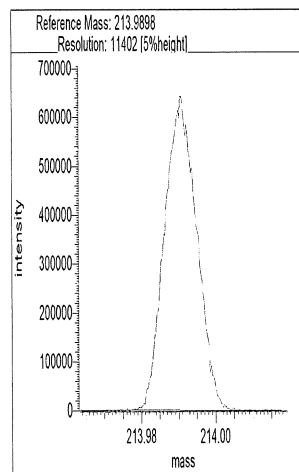
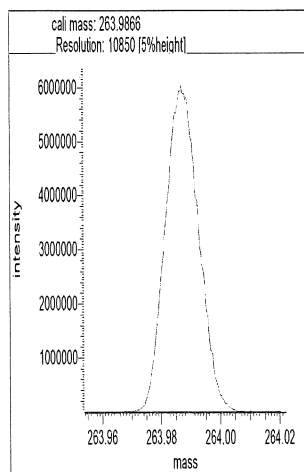
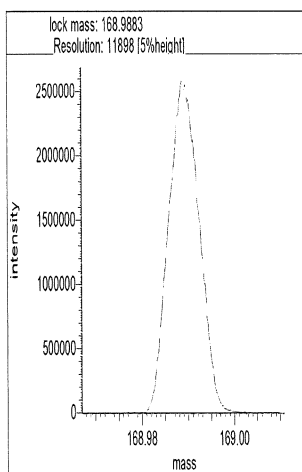
\_d2240629r1

## Segment 1

Lock mass 168.9883 [m/z] Resolution: 11898 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 10850 [5%height]

Ref. mass 213.9898 [m/z] Resolution: 11402 [5%height]

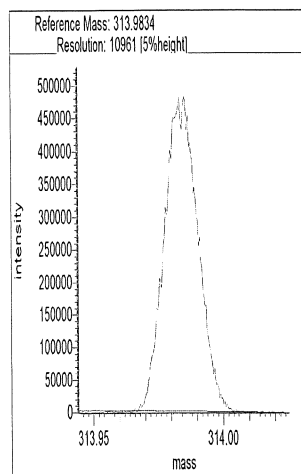
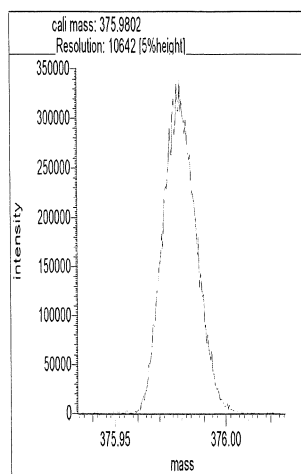
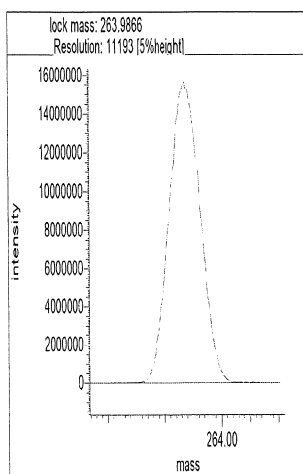


## Segment 2

Lock mass 263.9866 [m/z] Resolution: 11193 [5%height]

Cali. mass 375.9802 [m/z] Resolution: 10642 [5%height]

Ref. mass 313.9834 [m/z] Resolution: 10961 [5%height]

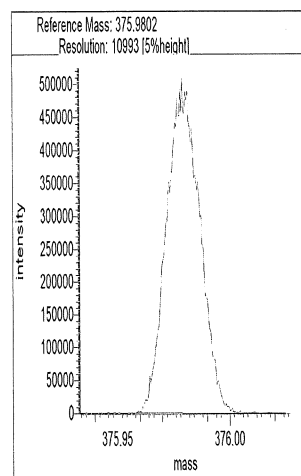
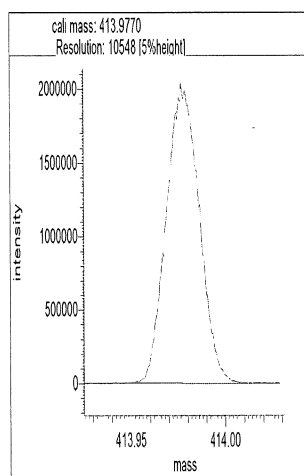
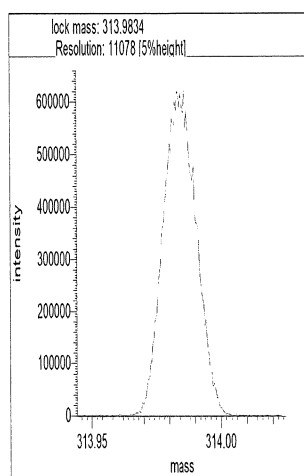


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11078 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10548 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 10993 [5%height]

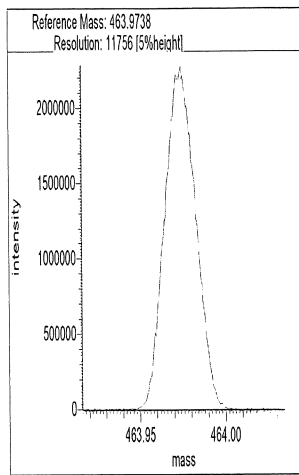
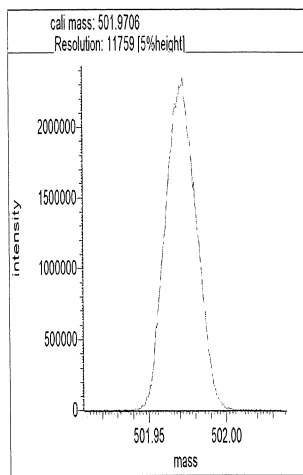
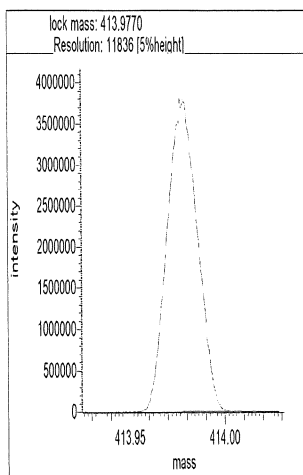


### Segment 4

Lock mass 413.9770 [m/z] Resolution: 11836 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11759 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 11756 [5%height]



## Reports

10:57:18: Peak matching procedure started  
10:57:19:  
10:57:19: Reference mass: 168.98827  
10:57:20: Sample mass: 214.0  
10:57:20:  
10:57:21: Finding reference mass  
10:57:22: Finding sample mass  
10:57:22:  
10:57:28: [1] 213.9904 amu, mean: 213.9904  
10:57:31: [2] 213.9902 amu, mean: 213.9903 SD: 0.17 mmu or: 0.79 ppm  
10:57:34: [3] 213.9903 amu, mean: 213.9903 SD: 0.12 mmu or: 0.56 ppm  
10:57:38: [4] 213.9902 amu, mean: 213.9903 SD: 0.10 mmu or: 0.48 ppm  
10:57:38:  
10:57:38: Stop requested. Please wait for procedure to finish.  
10:57:38:  
10:57:41:  
10:57:41: Peakmatching stopped


Signature

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## Reports

10:57:52: Peak matching procedure started  
10:57:53:  
10:57:53: Reference mass: 213.98975  
10:57:54: Sample mass: 264.0  
10:57:54:  
10:57:55: Finding reference mass  
10:57:56: Finding sample mass  
10:57:56:  
10:58:02: [1] 263.9872 amu, mean: 263.9872  
10:58:05: [2] 263.9872 amu, mean: 263.9872 SD: 0.02 mmu or: 0.08 ppm  
10:58:08: [3] 263.9870 amu, mean: 263.9871 SD: 0.09 mmu or: 0.35 ppm  
10:58:11: [4] 263.9865 amu, mean: 263.9870 SD: 0.32 mmu or: 1.20 ppm  
10:58:12:  
10:58:12: Stop requested. Please wait for procedure to finish.  
10:58:12:  
10:58:15:  
10:58:15: Peakmatching stopped

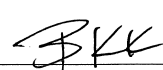
Signature

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## Reports

10:58:33: Peak matching procedure started  
10:58:34:  
10:58:34: Reference mass: 263.98656  
10:58:35: Sample mass: 314.0  
10:58:35:  
10:58:36: Finding reference mass  
10:58:37: Finding sample mass  
10:58:38:  
10:58:43: [1] 313.9837 amu, mean: 313.9837  
10:58:47: [2] 313.9836 amu, mean: 313.9837 SD: 0.07 mmu or: 0.23 ppm  
10:58:50: [3] 313.9840 amu, mean: 313.9838 SD: 0.21 mmu or: 0.68 ppm  
10:58:53: [4] 313.9840 amu, mean: 313.9838 SD: 0.21 mmu or: 0.68 ppm  
10:58:54:  
10:58:54: Stop requested. Please wait for procedure to finish.  
10:58:54:  
10:58:56:  
10:58:57: Peakmatching stopped

Signature

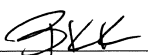
 6/29/24



## Reports

10:59:12: Peak matching procedure started  
10:59:12:  
10:59:13: Reference mass: 313.98336  
10:59:13: Sample mass: 376.0  
10:59:14:  
10:59:14: Finding reference mass  
10:59:15: Finding sample mass  
10:59:16:  
10:59:21: [1] 375.9808 amu, mean: 375.9808  
10:59:25: [2] 375.9807 amu, mean: 375.9807 SD: 0.13 mmu or: 0.34 ppm  
10:59:28: [3] 375.9803 amu, mean: 375.9806 SD: 0.28 mmu or: 0.75 ppm  
10:59:31: [4] 375.9808 amu, mean: 375.9806 SD: 0.26 mmu or: 0.69 ppm  
10:59:32:  
10:59:32: Stop requested. Please wait for procedure to finish.  
10:59:32:  
10:59:34:  
10:59:35: Peakmatching stopped

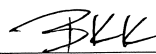
Signature

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## Reports

10:59:12: Peak matching procedure started  
10:59:12:  
10:59:13: Reference mass: 313.98336  
10:59:13: Sample mass: 376.0  
10:59:14:  
10:59:14: Finding reference mass  
10:59:15: Finding sample mass  
10:59:16:  
10:59:21: [1] 375.9808 amu, mean: 375.9808  
10:59:25: [2] 375.9807 amu, mean: 375.9807 SD: 0.13 mmu or: 0.34 ppm  
10:59:28: [3] 375.9803 amu, mean: 375.9806 SD: 0.28 mmu or: 0.75 ppm  
10:59:31: [4] 375.9808 amu, mean: 375.9806 SD: 0.26 mmu or: 0.69 ppm  
10:59:32:  
10:59:32: Stop requested. Please wait for procedure to finish.  
10:59:32:  
10:59:34:  
10:59:35: Peakmatching stopped


Signature

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## Reports

10:59:47: Peak matching procedure started  
10:59:48:  
10:59:48: Reference mass: 375.98017  
10:59:49: Sample mass: 414.0  
10:59:49:  
10:59:50: Finding reference mass  
10:59:51: Finding sample mass  
10:59:51:  
10:59:57: [1] 413.9769 amu, mean: 413.9769  
11:00:00: [2] 413.9774 amu, mean: 413.9771 SD: 0.33 mmu or: 0.80 ppm  
11:00:03: [3] 413.9779 amu, mean: 413.9774 SD: 0.49 mmu or: 1.19 ppm  
11:00:07: [4] 413.9780 amu, mean: 413.9776 SD: 0.51 mmu or: 1.23 ppm  
11:00:07:  
11:00:07: Stop requested. Please wait for procedure to finish.  
11:00:07:  
11:00:10:  
11:00:10: Peakmatching stopped


Signature

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## Reports

11:00:20: Peak matching procedure started  
11:00:21:  
11:00:22: Reference mass: 413.97698  
11:00:22: Sample mass: 464.0  
11:00:22:  
11:00:23: Finding reference mass  
11:00:24: Finding sample mass  
11:00:24:  
11:00:30: [1] 463.9744 amu, mean: 463.9744  
11:00:34: [2] 463.9732 amu, mean: 463.9738 SD: 0.82 mmu or: 1.76 ppm  
11:00:37: [3] 463.9738 amu, mean: 463.9738 SD: 0.58 mmu or: 1.25 ppm  
11:00:40: [4] 463.9744 amu, mean: 463.9740 SD: 0.56 mmu or: 1.20 ppm  
11:00:40:  
11:00:40: Stop requested. Please wait for procedure to finish.  
11:00:40:  
11:00:43:  
11:00:44: Peakmatching stopped


Signature

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## Reports

11:00:55: Peak matching procedure started  
11:00:55:  
11:00:56: Reference mass: 463.97378  
11:00:56: Sample mass: 502.0  
11:00:57:  
11:00:57: Finding reference mass  
11:00:58: Finding sample mass  
11:00:59:  
11:01:04: [1] 501.9709 amu, mean: 501.9709  
11:01:08: [2] 501.9716 amu, mean: 501.9712 SD: 0.53 mmu or: 1.05 ppm  
11:01:11: [3] 501.9720 amu, mean: 501.9715 SD: 0.57 mmu or: 1.14 ppm  
11:01:14: [4] 501.9709 amu, mean: 501.9713 SD: 0.56 mmu or: 1.11 ppm  
11:01:15:  
11:01:15: Stop requested. Please wait for procedure to finish.  
11:01:15:  
11:01:18:  
11:01:18: Peakmatching stopped

Signature

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Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Lims ID: WDMCCV  
Client ID:  
Sample Type: WDMCCV  
Inject. Date: 28-Jun-2024 23:29:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033313-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub2  
  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 18:17:33 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last Ical File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: V4XA

Date: 29-Jun-2024 00:36:38

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					138.3	138.3	0.1373	0.1373		
D PCB-1L	11:41	18106212	3.18	1.6108	99.6	99.6	0.2325	0.2325	99.56	
D PCB-3L	13:49	17568416	3.20	1.5891	97.9	97.9	0.2356	0.2356	97.92	
PCB-1	11:42	10145212	2.95	1.2191	46.0	46.0	0.1200	0.1200	91.92	
PCB-2	13:40	9718705	3.02	1.1805	46.2	46.2	0.1389	0.1389	92.31	
PCB-3	13:50	9912257	3.02	1.2206	46.2	46.2	0.1530	0.1530	92.45	
S Total Dichlorobiphenyls					622.1	622.1	0.0260	0.0260		
D PCB-4L	14:05	7289224	1.62	0.6475	99.7	99.7	0.0546	0.0546	99.71	
* PCB-9L	16:02	11289931	1.61		100.0	100.0				
\$ PCB-8L	16:52	5432797	1.62	1.2066	47.3	47.3	0.0365	0.0365	94.50	
D PCB-15L	19:57	11768721	1.63	1.0789	96.6	96.6	0.0328	0.0328	96.61	
PCB-4	14:06	4725358	1.63	1.2818	50.6	50.6	0.0300	0.0300	101	
PCB-10	14:16	6709595	1.60	1.3149	53.6	53.6	0.0272	0.0272	107	
PCB-9	16:03	7077951	1.62	1.4224	52.2	52.2	0.0252	0.0252	104	
PCB-7	16:13	6914364	1.60	1.4134	51.3	51.3	0.0253	0.0253	103	
PCB-6	16:28	7502093	1.60	1.5421	51.1	51.1	0.0232	0.0232	102	
PCB-5	16:46	6638953	1.60	1.3395	52.0	52.0	0.0267	0.0267	104	
PCB-8	16:54	7859886	1.64	1.5889	51.9	51.9	0.0225	0.0225	104	
PCB-14	18:30	6831559	1.61	1.4025	51.1	51.1	0.0255	0.0255	102	
PCB-11	19:21	6517468	1.62	1.2951	52.8	52.8	0.0276	0.0276	106	
PCB-12	19:39	13164433	1.59	1.3358	103.4	103.4	0.0268	0.0268	103	
PCB-13 (C12)	19:39	13164433	1.59	1.3358	103.4	103.4	0.0268	0.0268	103	
PCB-15	19:58	7906035	1.60	1.2903	52.1	52.1	0.0260	0.0260	104	
S Total Trichlorobiphenyls					1160.9	1160.9	0.2961	0.2961		
D PCB-19L	17:10	4534969	1.07	0.6285	100.1	100.1	0.3766	0.3766	100	
* PCB-32L	20:24	7208520	1.08		100.0	100.0				
* PCB-31L	22:40	17922924	1.04		100.0	100.0				
\$ PCB-28L	22:57	8795817	1.05	1.0494	46.8	46.8	0.0794	0.0794	93.53	
D PCB-37L	26:57	15017239	1.04	0.8749	95.8	95.8	0.0952	0.0952	95.77	
PCB-19	17:12	3069442	1.06	1.2809	52.8	52.8	0.0310	0.0310	106	
PCB-18	19:00	8269583	1.06	1.7652	103.3	103.3	0.0225	0.0225	103	
PCB-30 (C18)	19:00	8269583	1.06	1.7652	103.3	103.3	0.0225	0.0225	103	
PCB-17	19:28	2897627	1.06	1.2430	51.4	51.4	0.0319	0.0319	103	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:41	4410510	1.06	1.8327	53.1	53.1	0.0216	0.0216	106	
PCB-24	19:48	4065696	1.07	1.6777	53.4	53.4	0.0236	0.0236	107	
PCB-16	19:55	2763011	1.08	1.1286	54.0	54.0	0.0351	0.0351	108	
PCB-32	20:26	4403122	1.04	1.8324	53.0	53.0	0.0216	0.0216	106	
PCB-34	21:41	7829004	0.99	1.1277	46.2	46.2	0.4451	0.4451	92.46	
PCB-23	21:50	7764930	1.01	1.0813	47.8	47.8	0.4642	0.4642	95.64	
PCB-26	22:09	15611293	1.00	1.1255	92.4	92.4	0.4460	0.4460	92.37	
PCB-29 (C26)	22:09	15611293	1.00	1.1255	92.4	92.4	0.4460	0.4460	92.37	
PCB-25	22:22	9194807	1.01	1.2728	48.1	48.1	0.3944	0.3944	96.21	
PCB-31	22:41	8208542	0.98	1.1532	47.4	47.4	0.4353	0.4353	94.79	
PCB-20	23:00	16180818	1.00	1.1718	92.0	92.0	0.4284	0.4284	91.95	
PCB-28 (C20)	23:00	16180818	1.00	1.1718	92.0	92.0	0.4284	0.4284	91.95	
PCB-21	23:10	15380569	1.00	1.0746	95.3	95.3	0.4671	0.4671	95.31	M
PCB-33 (C21)	23:10	15380569	1.00	1.0746	95.3	95.3	0.4671	0.4671	95.31	M
PCB-22	23:37	8263567	1.02	1.1932	46.1	46.1	0.4207	0.4207	92.23	
PCB-36	25:09	7490882	0.99	1.1071	45.1	45.1	0.4534	0.4534	90.12	
PCB-39	25:31	7997620	0.99	1.1581	46.0	46.0	0.4334	0.4334	91.97	
PCB-38	26:05	7270514	1.00	1.0843	44.6	44.6	0.4629	0.4629	89.30	
PCB-35	26:34	7600883	1.02	1.1297	44.8	44.8	0.4443	0.4443	89.61	
PCB-37	26:59	7577014	0.96	1.1435	44.1	44.1	0.4390	0.4390	88.25	
S Total Tetrachlorobiphenyls					2055.7	2055.7	0.4450	0.4450		
D PCB-54L	20:15	4242249	0.81	0.5562	105.8	105.8	0.0173	0.0173	106	M
* PCB-52L	24:47	9926724	0.80		100.0	100.0				
\$ PCB-79L	32:41	6209387	0.81	1.0018	49.9	49.9	0.3558	0.3558	99.89	
D PCB-81L	33:41	12062946	0.81	1.2470	97.5	97.5	0.3063	0.3063	97.45	
D PCB-77L	34:15	12757525	0.82	1.3212	97.3	97.3	0.2891	0.2891	97.27	
PCB-54	20:16	2714897	0.79	1.2733	50.3	50.3	0.0439	0.0439	101	
PCB-50	22:26	10439332	0.79	0.8578	98.1	98.1	0.5714	0.5714	98.07	
PCB-53 (C50)	22:26	10439332	0.79	0.8578	98.1	98.1	0.5714	0.5714	98.07	
PCB-45	23:10	10335497	0.80	0.8264	100.8	100.8	0.5931	0.5931	101	M
PCB-51 (C45)	23:10	10335497	0.80	0.8264	100.8	100.8	0.5931	0.5931	101	M
PCB-46	23:24	4300728	0.80	0.7101	48.8	48.8	0.6902	0.6902	97.61	
PCB-52	24:49	5679780	0.79	0.9194	49.8	49.8	0.5331	0.5331	99.56	
PCB-43	24:57	12985029	0.81	1.0333	101.3	101.3	0.4743	0.4743	101	M
PCB-73 (C43)	24:57	12985029	0.81	1.0333	101.3	101.3	0.4743	0.4743	101	M
PCB-49	25:14	12855354	0.79	1.0685	96.9	96.9	0.4587	0.4587	96.94	
PCB-69 (C49)	25:14	12855354	0.79	1.0685	96.9	96.9	0.4587	0.4587	96.94	
PCB-48	25:35	5020006	0.79	0.8399	48.2	48.2	0.5835	0.5835	96.32	
PCB-44	25:49	17400721	0.79	0.9731	144.1	144.1	0.5037	0.5037	96.06	
PCB-47 (C44)	25:49	17400721	0.79	0.9731	144.1	144.1	0.5037	0.5037	96.06	
PCB-65 (C44)	25:49	17400721	0.79	0.9731	144.1	144.1	0.5037	0.5037	96.06	
PCB-59	26:08	20893636	0.78	1.1853	142.0	142.0	0.4135	0.4135	94.70	
PCB-62 (C59)	26:08	20893636	0.78	1.1853	142.0	142.0	0.4135	0.4135	94.70	
PCB-75 (C59)	26:08	20893636	0.78	1.1853	142.0	142.0	0.4135	0.4135	94.70	
PCB-42	26:20	5095678	0.79	0.8097	50.7	50.7	0.6053	0.6053	101	
PCB-40	26:50	15972618	0.79	0.8863	145.2	145.2	0.5530	0.5530	96.81	M
PCB-41 (C40)	26:50	15972618	0.79	0.8863	145.2	145.2	0.5530	0.5530	96.81	M
PCB-71 (C40)	26:50	15972618	0.79	0.8863	145.2	145.2	0.5530	0.5530	96.81	M
PCB-64	27:02	6928799	0.80	1.1776	47.4	47.4	0.4162	0.4162	94.82	
PCB-72	27:52	6771493	0.78	1.0943	49.9	49.9	0.4479	0.4479	99.73	
PCB-68	28:09	7672268	0.77	1.2533	49.3	49.3	0.3911	0.3911	98.66	
PCB-57	28:34	6727009	0.77	1.0818	50.1	50.1	0.4530	0.4530	100	
PCB-58	28:49	8601817	0.77	1.3253	52.3	52.3	0.3698	0.3698	105	
PCB-67	28:59	8655119	0.76	1.4230	49.0	49.0	0.3444	0.3444	98.02	
PCB-63	29:14	6812589	0.78	1.1240	48.8	48.8	0.4361	0.4361	97.68	
PCB-61	29:35	30246890	0.78	1.2612	193.2	193.2	0.3886	0.3886	96.62	
PCB-70 (C61)	29:35	30246890	0.78	1.2612	193.2	193.2	0.3886	0.3886	96.62	
PCB-74 (C61)	29:35	30246890	0.78	1.2612	193.2	193.2	0.3886	0.3886	96.62	
PCB-76 (C61)	29:35	30246890	0.78	1.2612	193.2	193.2	0.3886	0.3886	96.62	
PCB-66	29:54	7850817	0.77	1.2583	50.3	50.3	0.3895	0.3895	101	
PCB-55	30:04	8293437	0.78	1.3236	50.5	50.5	0.3703	0.3703	101	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:34	7497869	0.78	1.2334	49.0	49.0	0.3974	0.3974	97.97	
PCB-60	30:47	6746058	0.77	1.1230	48.4	48.4	0.4364	0.4364	96.81	
PCB-80	31:10	8244500	0.82	1.3243	50.2	50.2	0.3701	0.3701	100	
PCB-79	32:42	8448297	0.78	1.4368	47.4	47.4	0.3411	0.3411	94.76	
PCB-78	33:16	6717483	0.79	1.1618	46.6	46.6	0.4218	0.4218	93.18	
PCB-81	33:42	6297112	0.78	1.0802	48.3	48.3	0.4622	0.4622	96.65	
PCB-77	34:16	6758130	0.79	1.0836	48.9	48.9	0.4442	0.4442	97.77	
S Total Pentachlorobiphenyls					2299.6	2299.6	0.2084	0.2084		
D PCB-104L	25:43	8209572	1.58	1.2161	101.0	101.0	0.0282	0.0282	101	
\$ PCB-95L	28:42	2924509	1.58	0.7218	49.4	49.4	0.0364	0.0364	98.71	
* PCB-101L	31:36	6683754	1.61		100.0	100.0				
\$ PCB-111L	34:17	4299578	1.59	1.3699	47.0	47.0	0.0251	0.0251	93.92	
D PCB-123L	36:14	11936974	1.56	0.9731	102.5	102.5	1.090	1.090	102	
D PCB-118L	36:33	12522787	1.59	1.0102	103.5	103.5	1.050	1.050	104	
D PCB-114L	37:05	12018700	1.60	0.9949	100.9	100.9	1.066	1.066	101	
D PCB-105L	37:45	11492239	1.58	0.9514	100.9	100.9	1.115	1.115	101	
* PCB-127L	39:13	11972555	1.58		100.0	100.0				
D PCB-126L	40:49	11567981	1.58	0.9439	102.4	102.4	1.124	1.124	102	
PCB-104	25:45	4316784	1.59	1.0087	52.1	52.1	0.0327	0.0327	104	
PCB-96	26:08	4522420	1.62	1.0940	50.4	50.4	0.0302	0.0302	101	
PCB-103	28:02	3679545	1.60	0.8741	51.3	51.3	0.0378	0.0378	103	
PCB-94	28:16	3122062	1.60	0.7640	49.8	49.8	0.0432	0.0432	99.55	
PCB-95	28:42	3442579	1.62	0.8033	52.2	52.2	0.0411	0.0411	104	
PCB-93	28:55	6996755	1.59	0.8429	101.1	101.1	0.0392	0.0392	101	
PCB-100 (C93)	28:55	6996755	1.59	0.8429	101.1	101.1	0.0392	0.0392	101	
PCB-98	29:04	6950957	1.62	0.8262	102.5	102.5	0.0400	0.0400	102	M
PCB-102 (C98)	29:04	6950957	1.62	0.8262	102.5	102.5	0.0400	0.0400	102	M
PCB-88	29:34	6752051	1.61	0.8013	102.6	102.6	0.0412	0.0412	103	
PCB-91 (C88)	29:34	6752051	1.61	0.8013	102.6	102.6	0.0412	0.0412	103	
PCB-84	29:48	3129068	1.59	0.7299	52.2	52.2	0.0452	0.0452	104	
PCB-89	30:17	3261687	1.60	0.7798	50.9	50.9	0.0423	0.0423	102	
PCB-121	30:40	5469875	1.62	1.2964	51.4	51.4	0.0255	0.0255	103	
PCB-92	31:03	3626691	1.57	0.8546	51.7	51.7	0.0386	0.0386	103	
PCB-90	31:36	12043488	1.59	0.9550	153.6	153.6	0.0346	0.0346	102	
PCB-101 (C90)	31:36	12043488	1.59	0.9550	153.6	153.6	0.0346	0.0346	102	
PCB-113 (C90)	31:36	12043488	1.59	0.9550	153.6	153.6	0.0346	0.0346	102	
PCB-83	32:12	7122805	1.58	0.8385	103.5	103.5	0.0394	0.0394	103	
PCB-99 (C83)	32:12	7122805	1.58	0.8385	103.5	103.5	0.0394	0.0394	103	
PCB-112	32:19	5948975	1.59	1.4111	51.4	51.4	0.0234	0.0234	103	
PCB-86	32:42	26190026	1.62	1.0473	304.6	304.6	0.0315	0.0315	102	M
PCB-87 (C86)	32:42	26190026	1.62	1.0473	304.6	304.6	0.0315	0.0315	102	M
PCB-97 (C86)	32:42	26190026	1.62	1.0473	304.6	304.6	0.0315	0.0315	102	M
PCB-109 (C86)	32:42	26190026	1.62	1.0473	304.6	304.6	0.0315	0.0315	102	M
PCB-119 (C86)	32:42	26190026	1.62	1.0473	304.6	304.6	0.0315	0.0315	102	M
PCB-125 (C86)	32:42	26190026	1.62	1.0473	304.6	304.6	0.0315	0.0315	102	M
PCB-85	33:25	12882530	1.58	1.0408	150.8	150.8	0.0317	0.0317	101	
PCB-116 (C85)	33:25	12882530	1.58	1.0408	150.8	150.8	0.0317	0.0317	101	
PCB-117 (C85)	33:25	12882530	1.58	1.0408	150.8	150.8	0.0317	0.0317	101	
PCB-110	33:38	9951013	1.59	1.1919	101.7	101.7	0.0277	0.0277	102	
PCB-115 (C110)	33:38	9951013	1.59	1.1919	101.7	101.7	0.0277	0.0277	102	
PCB-82	33:56	3500924	1.53	0.8303	51.4	51.4	0.0398	0.0398	103	
PCB-111	34:18	5132916	1.58	1.2125	51.6	51.6	0.0272	0.0272	103	
PCB-120	34:45	6107435	1.62	1.4762	50.4	50.4	0.0224	0.0224	101	
PCB-108	35:54	12049092	1.53	1.1405	88.7	88.7	0.5583	0.5583	88.72	
PCB-124 (C108)	35:54	12049092	1.53	1.1405	88.7	88.7	0.5583	0.5583	88.72	
PCB-107	36:09	6799851	1.55	1.2121	47.1	47.1	0.5253	0.5253	94.22	
PCB-123	36:15	6001469	1.54	1.0722	46.9	46.9	0.5796	0.5796	93.78	
PCB-106	36:22	6030332	1.54	1.0839	46.7	46.7	0.5874	0.5874	93.44	
PCB-118	36:35	6922820	1.56	1.2055	45.9	45.9	0.5055	0.5055	91.71	
PCB-122	36:56	5348981	1.49	0.9567	47.0	47.0	0.6656	0.6656	93.91	



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:06	6143289	1.56	1.0842	47.1	47.1	0.5750	0.5750	94.29	
PCB-105	37:46	6476297	1.58	1.1879	47.4	47.4	0.5592	0.5592	94.88	
PCB-127	39:13	6305284	1.52	1.1394	46.5	46.5	0.5589	0.5589	92.95	
PCB-126	40:51	6251603	1.54	1.0976	49.2	49.2	0.6101	0.6101	98.47	
S Total Hexachlorobiphenyls					2047.9	2047.9	0.3149	0.3149		
D PCB-155L	31:22	7562409	1.27	1.0851	104.3	104.3	0.0423	0.0423	104	
\$ PCB-153L	38:25	4558988	1.28	0.9169	44.5	44.5	0.8881	0.8881	88.96	
* PCB-138L	39:41	8898526	1.30		100.0	100.0				
D PCB-167L	42:40	11338075	1.27	1.2572	101.3	101.3	0.6697	0.6697	101	
D PCB-156L	43:49	22036349	1.29	1.2106	204.6	204.6	0.6955	0.6955	102	
D PCB-157L (C156L)	43:49	22036349	1.29	1.2106	204.6	204.6	0.6955	0.6955	102	
D PCB-169L	47:03	11335572	1.25	1.2439	102.4	102.4	0.6769	0.6769	102	
PCB-155	31:23	3631672	1.27	0.9444	50.8	50.8	0.0248	0.0248	102	
PCB-152	31:36	3611374	1.27	0.9895	48.3	48.3	0.0236	0.0236	96.52	
PCB-150	31:46	3872132	1.27	1.0132	50.5	50.5	0.0231	0.0231	101	
PCB-136	32:08	3793244	1.29	1.0116	49.6	49.6	0.0231	0.0231	99.17	
PCB-145	32:26	3686552	1.28	0.9685	50.3	50.3	0.0241	0.0241	101	
PCB-148	33:55	2850411	1.26	0.7603	49.6	49.6	0.0308	0.0308	99.15	
PCB-135	34:31	5505693	1.25	0.7256	100.3	100.3	0.0322	0.0322	100	M
PCB-151 (C135)	34:31	5505693	1.25	0.7256	100.3	100.3	0.0322	0.0322	100	M
PCB-154	34:46	3070211	1.26	0.8129	49.9	49.9	0.0288	0.0288	99.89	
PCB-144	35:05	2993770	1.31	0.7852	50.4	50.4	0.0298	0.0298	101	
PCB-147	35:27	9865545	1.25	0.8950	98.6	98.6	0.4519	0.4519	98.62	
PCB-149 (C147)	35:27	9865545	1.25	0.8950	98.6	98.6	0.4519	0.4519	98.62	
PCB-134	35:45	8604691	1.26	0.7967	96.6	96.6	0.5077	0.5077	96.63	
PCB-143 (C134)	35:45	8604691	1.26	0.7967	96.6	96.6	0.5077	0.5077	96.63	
PCB-139	36:02	9306091	1.24	0.8769	94.9	94.9	0.4612	0.4612	94.95	
PCB-140 (C139)	36:02	9306091	1.24	0.8769	94.9	94.9	0.4612	0.4612	94.95	
PCB-131	36:14	4105507	1.25	0.7503	49.0	49.0	0.5391	0.5391	97.91	
PCB-142	36:23	4183617	1.26	0.7507	49.9	49.9	0.5388	0.5388	99.72	M
PCB-132	36:43	3960466	1.25	0.7489	47.3	47.3	0.5400	0.5400	94.62	M
PCB-133	37:12	4343046	1.25	0.8096	48.0	48.0	0.4996	0.4996	95.99	
PCB-165	37:36	5721592	1.28	1.0247	50.0	50.0	0.3947	0.3947	99.91	
PCB-146	37:51	5301496	1.26	0.9637	49.2	49.2	0.4197	0.4197	98.44	
PCB-161	37:58	5997295	1.24	1.1288	47.5	47.5	0.3583	0.3583	95.07	M
PCB-153	38:28	12126907	1.24	1.0938	99.2	99.2	0.3698	0.3698	99.19	M
PCB-168 (C153)	38:28	12126907	1.24	1.0938	99.2	99.2	0.3698	0.3698	99.19	M
PCB-141	38:39	4572478	1.36	0.8755	46.7	46.7	0.4620	0.4620	93.45	
PCB-130	39:04	3779494	1.21	0.7051	48.0	48.0	0.5736	0.5736	95.91	
PCB-137	39:16	4284933	1.24	0.7767	49.4	49.4	0.5208	0.5208	98.72	
PCB-164	39:24	5671954	1.29	1.0382	48.9	48.9	0.3895	0.3895	97.75	
PCB-129	39:42	20151377	1.25	0.9464	190.5	190.5	0.4274	0.4274	95.25	M
PCB-138 (C129)	39:42	20151377	1.25	0.9464	190.5	190.5	0.4274	0.4274	95.25	M
PCB-160 (C129)	39:42	20151377	1.25	0.9464	190.5	190.5	0.4274	0.4274	95.25	M
PCB-163 (C129)	39:42	20151377	1.25	0.9464	190.5	190.5	0.4274	0.4274	95.25	M
PCB-158	40:05	6964512	1.25	1.3110	47.5	47.5	0.3085	0.3085	95.05	
PCB-128	40:56	10603002	1.25	0.9829	96.5	96.5	0.4115	0.4115	96.51	
PCB-166 (C128)	40:56	10603002	1.25	0.9829	96.5	96.5	0.4115	0.4115	96.51	
PCB-159	41:56	7342425	1.26	1.3856	47.4	47.4	0.2919	0.2919	94.82	
PCB-162	42:13	6706310	1.27	1.2571	47.7	47.7	0.3217	0.3217	95.46	
PCB-167	42:41	6101187	1.25	1.1159	48.2	48.2	0.2932	0.2932	96.45	
PCB-156	43:52	11987989	1.25	1.1104	98.0	98.0	0.4597	0.4597	97.98	
PCB-157 (C156)	43:52	11987989	1.25	1.1104	98.0	98.0	0.4597	0.4597	97.98	
PCB-169	47:05	6472770	1.31	1.1628	49.1	49.1	0.2950	0.2950	98.21	
S Total Heptachlorobiphenyls					1202.8	1202.8	0.0238	0.0238		
D PCB-188L	37:05	9199775	1.06	1.3133	100.2	100.2	0.0316	0.0316	100	
\$ PCB-178L	40:08	3319993	1.09	1.0313	46.1	46.1	0.0402	0.0402	92.13	
* PCB-180L	45:13	6988067	1.06		100.0	100.0				
D PCB-170L	46:28	5990947	1.08	0.8362	102.5	102.5	0.0496	0.0496	103	
D PCB-189L	49:34	13213635	1.06	1.4414	91.8	91.8	0.2803	0.2803	91.81	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-188	37:06	5207655	1.06	1.1350	49.9	49.9	0.0145	0.0145	99.75	
PCB-179	37:27	5271893	1.05	1.4276	48.6	48.6	0.0142	0.0142	97.24	
PCB-184	37:58	5170316	1.08	1.3672	49.8	49.8	0.0148	0.0148	99.58	
PCB-176	38:20	4573419	1.06	1.2331	48.8	48.8	0.0165	0.0165	97.67	
PCB-186	38:47	5676060	1.06	1.4737	50.7	50.7	0.0138	0.0138	101	
PCB-178	40:09	3426384	1.05	0.8946	50.4	50.4	0.0227	0.0227	101	
PCB-175	40:47	3666123	1.09	0.9524	50.7	50.7	0.0213	0.0213	101	
PCB-187	41:03	4248354	1.07	1.1018	50.8	50.8	0.0184	0.0184	102	
PCB-182	41:15	3641417	1.05	0.9247	51.8	51.8	0.0219	0.0219	104	
PCB-183	41:39	7269574	1.08	0.9825	97.4	97.4	0.0207	0.0207	97.42	Ma
PCB-185 (C183)	41:39	7269574	1.08	0.9825	97.4	97.4	0.0207	0.0207	97.42	Ma
PCB-174	41:55	3746592	1.06	0.9642	51.2	51.2	0.0210	0.0210	102	
PCB-177	42:21	3714791	1.04	0.9773	50.0	50.0	0.0208	0.0208	100	
PCB-181	42:44	3620523	1.06	0.9505	50.1	50.1	0.0213	0.0213	100	
PCB-171	42:57	6866175	1.04	0.9336	96.8	96.8	0.0217	0.0217	96.82	
PCB-173 (C171)	42:57	6866175	1.04	0.9336	96.8	96.8	0.0217	0.0217	96.82	
PCB-172	44:35	3298925	1.07	0.8519	51.0	51.0	0.0238	0.0238	102	
PCB-192	44:51	5409840	1.06	1.3459	52.9	52.9	0.0151	0.0151	106	
PCB-180	45:12	9061932	1.07	1.1676	102.2	102.2	0.0174	0.0174	102	
PCB-193 (C180)	45:12	9061932	1.07	1.1676	102.2	102.2	0.0174	0.0174	102	
PCB-191	45:35	5157462	1.04	1.2891	52.7	52.7	0.0157	0.0157	105	
PCB-170	46:29	3466762	1.05	1.1865	48.8	48.8	0.0223	0.0223	97.54	
PCB-190	47:00	5213832	1.04	1.3322	51.5	51.5	0.0152	0.0152	103	
PCB-189	49:35	5925750	1.01	0.9633	46.6	46.6	0.1265	0.1265	93.11	
S Total Octachlorobiphenyls					610.0	610.0	0.1364	0.1364		
D PCB-202L	42:26	6833866	0.90	0.9818	99.6	99.6	0.0232	0.0232	99.61	
* PCB-194L	51:40	9985234	0.93		100.0	100.0				
D PCB-205L	52:09	11869289	0.91	1.1786	100.9	100.9	0.0435	0.0435	101	
PCB-202	42:27	3716426	0.89	1.0359	52.5	52.5	0.0418	0.0418	105	
PCB-201	43:22	3448293	0.92	0.9754	51.7	51.7	0.0444	0.0444	103	
PCB-204	44:03	3596845	0.93	1.0485	50.2	50.2	0.0413	0.0413	100	
PCB-197	44:16	3810174	0.90	1.1458	48.7	48.7	0.0378	0.0378	97.32	
PCB-200	44:24	3645864	0.90	1.0072	53.0	53.0	0.0430	0.0430	106	
PCB-198	47:09	6067559	0.90	0.8698	102.1	102.1	0.0498	0.0498	102	
PCB-199 (C198)	47:09	6067559	0.90	0.8698	102.1	102.1	0.0498	0.0498	102	
PCB-196	47:50	2727426	0.89	0.7806	51.1	51.1	0.0555	0.0555	102	
PCB-203	48:01	3391825	0.90	0.9292	53.4	53.4	0.0466	0.0466	107	
PCB-195	49:21	4885426	0.91	0.8263	49.8	49.8	0.4372	0.4372	99.62	
PCB-194	51:42	5528736	0.89	0.9735	47.8	47.8	0.3711	0.3711	95.70	
PCB-205	52:10	6406425	0.89	1.0878	49.6	49.6	0.3321	0.3321	99.24	
S Total Nonachlorobiphenyls					144.9	144.9	0.1590	0.1590		
D PCB-208L	49:06	10083569	0.80	0.9576	105.5	105.5	0.1687	0.1687	105	
D PCB-206L	53:54	7421254	0.81	0.6947	107.0	107.0	0.2326	0.2326	107	
PCB-208	49:08	5680325	0.79	1.1374	49.5	49.5	0.1508	0.1508	99.05	
PCB-207	50:03	5836941	0.79	1.3756	48.5	48.5	0.1457	0.1457	96.96	
PCB-206	53:55	4643812	0.78	1.3346	46.9	46.9	0.1806	0.1806	93.77	
D PCB-209L	55:31	7297259	0.71	0.6669	109.6	109.6	0.0356	0.0356	110	
DCB Decachlorobiphenyl	55:33	4092642	0.73	1.1004	51.0	51.0	0.0217	0.0217	102	
S Polychlorinated biphenyls, Total					10195	10195	0.1812	0.1812		

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

61CV1668CS3\_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\2240628c2a.d  
Lims ID: WDMCCV  
Client ID:  
Sample Type: WDMCCV  
Inject. Date: 28-Jun-2024 23:29:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033313-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub2  
  
Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 29-Jun-2024 18:17:33 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\2240531pi6.d  
  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1642

First Level Reviewer: V4XA

Date: 29-Jun-2024 00:36:38

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:41	11:41	0	0.729	13777220	5496351	3629	9072	1515		
202.0766	11:41	11:41	0	0.729	4328992	1718830	1178	2945	1459	3.18(2.66-3.60)	
PCB-3L											
200.0795	13:49	13:49	0	0.862	13390257	4305330	3629	9072	1186		
202.0766	13:49	13:49	0	0.862	4178159	1346399	1178	2945	1143	3.20(2.66-3.60)	
PCB-1											
188.0393	11:42	11:42	0	1.001	7579210	2889957	3011	7527	960		
190.0363	11:42	11:42	0	1.001	2566002	954638	1210	3025	789	2.95(2.66-3.60)	
PCB-2											
188.0393	13:40	13:40	0	0.989	7301735	2429072	3011	7527	807		
190.0363	13:40	13:40	0	0.989	2416970	812269	1210	3025	671	3.02(2.66-3.60)	
PCB-3											
188.0393	13:50	13:50	0	1.001	7445351	2371878	3011	7527	788		
190.0363	13:50	13:50	0	1.001	2466906	798158	1210	3025	660	3.02(2.66-3.60)	
PCB-4L											
234.0406	14:05	14:05	0	0.879	4504603	1481648	358	895	4139		
236.0376	14:05	14:05	0	0.879	2784621	919249	96	240	9576	1.62(1.33-1.79)	
PCB-9L											
234.0406	16:02	16:02	0		6968432	1976622	358	895	5521		
236.0376	16:02	16:02	0		4321499	1232709	96	240	12841	1.61(1.33-1.79)	
PCB-8L											
234.0406	16:52	16:52	0	1.198	3359454	913109	358	895	2551		
236.0376	16:52	16:52	0	1.198	2073343	560359	96	240	5837	1.62(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:57	19:57	0	1.244	7291015	1692341	358	895	4727		
236.0376	19:57	19:57	0	1.244	4477706	1056566	96	240	11006	1.63(1.33-1.79)	
PCB-4											
222.0003	14:06	14:06	0	1.001	2929673	971223	120	300	8094		
223.9974	14:06	14:06	0	1.001	1795685	600281	249	622	2411	1.63(1.33-1.79)	
PCB-10											
222.0003	14:16	14:16	0	1.013	4133904	1329176	120	300	11076		
223.9974	14:16	14:16	0	1.013	2575691	821866	249	622	3301	1.60(1.33-1.79)	
PCB-9											
222.0003	16:03	16:03	0	1.140	4375358	1269310	120	300	10578		
223.9974	16:03	16:03	0	1.140	2702593	791961	249	622	3181	1.62(1.33-1.79)	
PCB-7											
222.0003	16:13	16:13	0	1.151	4252504	1203970	120	300	10033		
223.9974	16:13	16:13	0	1.151	2661860	755401	249	622	3034	1.60(1.33-1.79)	
PCB-6											
222.0003	16:28	16:28	0	1.169	4619544	1290317	120	300	10753		
223.9974	16:28	16:28	0	1.169	2882549	804446	249	622	3231	1.60(1.33-1.79)	
PCB-5											
222.0003	16:46	16:46	0	1.190	4082525	1155857	120	300	9632		
223.9974	16:46	16:46	0	1.190	2556428	720038	249	622	2892	1.60(1.33-1.79)	
PCB-8											
222.0003	16:54	16:54	0	1.200	4877059	1260874	120	300	10507		
223.9974	16:53	16:54	-1	1.199	2982827	775695	249	622	3115	1.64(1.33-1.79)	
PCB-14											
222.0003	18:30	18:30	0	0.928	4209190	1043821	120	300	8699		
223.9974	18:30	18:30	0	0.928	2622369	649892	249	622	2610	1.61(1.33-1.79)	
PCB-11											
222.0003	19:21	19:21	0	0.970	4026331	950416	120	300	7920		
223.9974	19:21	19:21	0	0.970	2491137	592397	249	622	2379	1.62(1.33-1.79)	
PCB-12											
222.0003	19:39	19:39	0	0.985	8090391	1290212	120	300	10752		
223.9974	19:39	19:39	0	0.985	5074042	826540	249	622	3319	1.59(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:39	19:39	0	0.985	8090391	1290212	120	300	10752		
223.9974	19:39	19:39	0	0.985	5074042	826540	249	622	3319	1.59(1.33-1.79)	
PCB-15											
222.0003	19:58	19:58	0	1.001	4861977	1089596	120	300	9080		
223.9974	19:58	19:58	0	1.001	3044058	672587	249	622	2701	1.60(1.33-1.79)	
PCB-19L											
268.0016	17:10	17:10	0	0.842	2340902	630555	526	1315	1199		
269.9986	17:10	17:10	0	0.842	2194067	597799	1072	2680	558	1.07(0.88-1.20)	
PCB-32L											
268.0016	20:24	20:24	0		3749753	876421	526	1315	1666		
269.9986	20:25	20:24	1		3458767	811494	1072	2680	757	1.08(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:40	22:40	0		9122314	2165397	815	2037	2657		
269.9986	22:40	22:40	0		8800610	2065186	595	1487	3471	1.04(0.88-1.20)	
PCB-28L											
268.0016	22:57	22:57	0	1.013	4495783	1007793	815	2037	1237		
269.9986	22:57	22:57	0	1.013	4300034	963383	595	1487	1619	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:57	26:57	0	1.190	7661324	1554729	815	2037	1908		
269.9986	26:57	26:57	0	1.190	7355915	1487654	595	1487	2500	1.04(0.88-1.20)	
PCB-19											
255.9613	17:12	17:12	0	1.002	1578870	433934	117	292	3709		
257.9584	17:12	17:12	0	1.002	1490572	415505	78	195	5327	1.06(0.88-1.20)	
PCB-18											
255.9613	19:00	19:00	0	1.106	4256957	722293	117	292	6173		
257.9584	19:00	19:00	0	1.106	4012626	680687	78	195	8727	1.06(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:00	19:00	0	1.106	4256957	722293	117	292	6173		
257.9584	19:00	19:00	0	1.106	4012626	680687	78	195	8727	1.06(0.88-1.20)	
PCB-17											
255.9613	19:28	19:28	0	1.133	1492256	381204	117	292	3258		
257.9584	19:28	19:28	0	1.133	1405371	348744	78	195	4471	1.06(0.88-1.20)	
PCB-27											
255.9613	19:41	19:41	0	1.146	2265969	582435	117	292	4978		
257.9584	19:41	19:41	0	1.146	2144541	546572	78	195	7007	1.06(0.88-1.20)	
PCB-24											
255.9613	19:48	19:48	0	1.153	2102524	523693	117	292	4476		
257.9584	19:48	19:48	0	1.153	1963172	487463	78	195	6250	1.07(0.88-1.20)	
PCB-16											
255.9613	19:55	19:55	0	1.160	1432551	340939	117	292	2914		
257.9584	19:55	19:55	0	1.160	1330460	325671	78	195	4175	1.08(0.88-1.20)	
PCB-32											
255.9613	20:26	20:26	0	1.190	2240145	555216	117	292	4745		
257.9584	20:26	20:26	0	1.190	2162977	531630	78	195	6816	1.04(0.88-1.20)	
PCB-34											
255.9613	21:41	21:41	0	1.262	3898886	928091	3409	8522	272		
257.9584	21:41	21:41	0	1.262	3930118	950134	2700	6750	352	0.99(0.88-1.20)	
PCB-23											
255.9613	21:50	21:50	0	1.271	3895026	909858	3409	8522	267		
257.9584	21:50	21:50	0	1.271	3869904	897618	2700	6750	332	1.01(0.88-1.20)	
PCB-26											
255.9613	22:09	22:09	0	1.290	7807848	1709938	3409	8522	502		
257.9584	22:09	22:09	0	1.290	7803445	1697252	2700	6750	629	1.00(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:09	22:09	0	1.290	7807848	1709938	3409	8522	502		
257.9584	22:09	22:09	0	1.290	7803445	1697252	2700	6750	629	1.00(0.88-1.20)	

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Signal	RT (min.)	Adj RT (min.)	ℓ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											
255.9613	22:22	22:22	0	0.830	4627536	974518	3409	8522	286	1.01(0.88-1.20)	
257.9584	22:22	22:22	0	0.830	4567271	976224	2700	6750	362		
PCB-31											
255.9613	22:41	22:41	0	0.842	4068316	929703	3409	8522	273	0.98(0.88-1.20)	
257.9584	22:41	22:41	0	0.842	4140226	921639	2700	6750	341		
PCB-20											
255.9613	23:00	23:00	0	0.853	8082823	1400010	3409	8522	411	1.00(0.88-1.20)	
257.9584	23:00	23:00	0	0.853	8097995	1406090	2700	6750	521		
PCB-28 (C20)											
255.9613	23:00	23:00	0	0.853	8082823	1400010	3409	8522	411	1.00(0.88-1.20)	
257.9584	23:00	23:00	0	0.853	8097995	1406090	2700	6750	521		
PCB-21											
255.9613	23:10	23:10	0	0.859	7684054	918962	3409	8522	270	1.00(0.88-1.20)	M
257.9584	23:10	23:10	0	0.859	7696515	926040	2700	6750	343		M
PCB-33 (C21)											
255.9613	23:10	23:10	0	0.859	7684054	918962	3409	8522	270	1.00(0.88-1.20)	M
257.9584	23:10	23:10	0	0.859	7696515	926040	2700	6750	343		M
PCB-22											
255.9613	23:37	23:37	0	0.876	4163799	898642	3409	8522	264	1.02(0.88-1.20)	
257.9584	23:37	23:37	0	0.876	4099768	909905	2700	6750	337		
PCB-36											
255.9613	25:09	25:09	0	0.933	3724275	739505	3409	8522	217	0.99(0.88-1.20)	
257.9584	25:10	25:09	1	0.934	3766607	750295	2700	6750	278		
PCB-39											
255.9613	25:31	25:31	0	0.947	3986016	822148	3409	8522	241	0.99(0.88-1.20)	
257.9584	25:31	25:31	0	0.947	4011604	810258	2700	6750	300		
PCB-38											
255.9613	26:05	26:05	0	0.968	3630246	754622	3409	8522	221	1.00(0.88-1.20)	
257.9584	26:05	26:05	0	0.968	3640268	746224	2700	6750	276		
PCB-35											
255.9613	26:34	26:34	0	0.986	3832942	745693	3409	8522	219	1.02(0.88-1.20)	
257.9584	26:34	26:34	0	0.986	3767941	703215	2700	6750	260		
PCB-37											
255.9613	26:59	26:59	0	1.001	3719038	717121	3409	8522	210	0.96(0.88-1.20)	
257.9584	26:59	26:59	0	1.001	3857976	728516	2700	6750	270		
PCB-54L											
301.9626	20:15	20:15	0	0.817	1897528	477243	53	132	9005	0.81(0.65-0.89)	M
303.9597	20:15	20:15	0	0.817	2344721	595322	12	30	49610		M
PCB-52L											
301.9626	24:47	24:47	0		4417189	975342	1376	3440	709	0.80(0.65-0.89)	
303.9597	24:47	24:47	0		5509535	1235952	2002	5005	617		
PCB-79L											
301.9626	32:41	32:41	0	0.970	2771920	539114	1376	3440	392	0.81(0.65-0.89)	
303.9597	32:41	32:41	0	0.970	3437467	676172	2002	5005	338		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:41	33:41	0	1.359	5396054	1042128	1376	3440	757		
303.9597	33:41	33:41	0	1.359	6666892	1283854	2002	5005	641	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:15	34:15	0	1.382	5740187	1081807	1376	3440	786		
303.9597	34:15	34:15	0	1.382	7017338	1330684	2002	5005	665	0.82(0.65-0.89)	
PCB-54											
289.9224	20:16	20:16	0	1.000	1199937	288647	123	307	2347		
291.9194	20:16	20:16	0	1.000	1514960	373692	117	292	3194	0.79(0.65-0.89)	
PCB-50											
289.9224	22:26	22:26	0	1.108	4593905	1037412	2309	5772	449		
291.9194	22:25	22:26	-1	1.107	5845427	1292043	2336	5840	553	0.79(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:26	22:26	0	1.108	4593905	1037412	2309	5772	449		
291.9194	22:25	22:26	-1	1.107	5845427	1292043	2336	5840	553	0.79(0.65-0.89)	
PCB-45											
289.9224	23:10	23:10	0	1.144	4579361	608702	2309	5772	264		M
291.9194	23:10	23:10	0	1.144	5756136	767967	2336	5840	329	0.80(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:10	23:10	0	1.144	4579361	608702	2309	5772	264		M
291.9194	23:10	23:10	0	1.144	5756136	767967	2336	5840	329	0.80(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:24	0	1.156	1905258	448668	2309	5772	194		
291.9194	23:24	23:24	0	1.156	2395470	562525	2336	5840	241	0.80(0.65-0.89)	
PCB-52											
289.9224	24:49	24:49	0	1.225	2502462	585301	2309	5772	253		
291.9194	24:49	24:49	0	1.225	3177318	746394	2336	5840	320	0.79(0.65-0.89)	
PCB-43											
289.9224	24:57	24:57	0	1.232	5805337	785485	2309	5772	340		M
291.9194	24:57	24:57	0	1.232	7179692	963423	2336	5840	412	0.81(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:57	24:57	0	1.232	5805337	785485	2309	5772	340		M
291.9194	24:57	24:57	0	1.232	7179692	963423	2336	5840	412	0.81(0.65-0.89)	M
PCB-49											
289.9224	25:14	25:14	0	1.246	5670905	806939	2309	5772	349		
291.9194	25:14	25:14	0	1.246	7184449	1046402	2336	5840	448	0.79(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:14	25:14	0	1.246	5670905	806939	2309	5772	349		
291.9194	25:14	25:14	0	1.246	7184449	1046402	2336	5840	448	0.79(0.65-0.89)	
PCB-48											
289.9224	25:35	25:35	0	1.263	2218147	497765	2309	5772	216		
291.9194	25:34	25:35	-1	1.263	2801859	632395	2336	5840	271	0.79(0.65-0.89)	
PCB-44											
289.9224	25:49	25:49	0	1.275	7698525	1464542	2309	5772	634		
291.9194	25:48	25:49	-1	1.275	9702196	1848178	2336	5840	791	0.79(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:49	25:49	0	1.275	7698525	1464542	2309	5772	634		
291.9194	25:48	25:49	-1	1.275	9702196	1848178	2336	5840	791	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:49	25:49	0	1.275	7698525	1464542	2309	5772	634		
291.9194	25:48	25:49	-1	1.275	9702196	1848178	2336	5840	791	0.79(0.65-0.89)	
PCB-59											
289.9224	26:08	26:08	0	1.290	9151149	1374801	2309	5772	595		
291.9194	26:08	26:08	0	1.290	11742487	1742080	2336	5840	746	0.78(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:08	26:08	0	1.290	9151149	1374801	2309	5772	595		
291.9194	26:08	26:08	0	1.290	11742487	1742080	2336	5840	746	0.78(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:08	26:08	0	1.290	9151149	1374801	2309	5772	595		
291.9194	26:08	26:08	0	1.290	11742487	1742080	2336	5840	746	0.78(0.65-0.89)	
PCB-42											
289.9224	26:20	26:20	0	1.300	2244751	485816	2309	5772	210		
291.9194	26:20	26:20	0	1.300	2850927	613580	2336	5840	263	0.79(0.65-0.89)	
PCB-40											
289.9224	26:50	26:50	0	1.325	7047323	1122267	2309	5772	486		M
291.9194	26:50	26:50	0	1.325	8925295	1427857	2336	5840	611	0.79(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:50	26:50	0	1.325	7047323	1122267	2309	5772	486		M
291.9194	26:50	26:50	0	1.325	8925295	1427857	2336	5840	611	0.79(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:50	26:50	0	1.325	7047323	1122267	2309	5772	486		M
291.9194	26:50	26:50	0	1.325	8925295	1427857	2336	5840	611	0.79(0.65-0.89)	M
PCB-64											
289.9224	27:02	27:02	0	1.335	3079691	657650	2309	5772	285		
291.9194	27:02	27:02	0	1.335	3849108	826867	2336	5840	354	0.80(0.65-0.89)	
PCB-72											
289.9224	27:52	27:52	0	0.827	2968685	633538	2309	5772	274		
291.9194	27:52	27:52	0	0.827	3802808	825995	2336	5840	354	0.78(0.65-0.89)	
PCB-68											
289.9224	28:09	28:09	0	0.836	3339820	690708	2309	5772	299		
291.9194	28:09	28:09	0	0.836	4332448	871010	2336	5840	373	0.77(0.65-0.89)	
PCB-57											
289.9224	28:34	28:34	0	0.848	2931091	640980	2309	5772	278		
291.9194	28:34	28:34	0	0.848	3795918	814424	2336	5840	349	0.77(0.65-0.89)	
PCB-58											
289.9224	28:49	28:49	0	0.855	3751222	786835	2309	5772	341		
291.9194	28:49	28:49	0	0.855	4850595	1015296	2336	5840	435	0.77(0.65-0.89)	
PCB-67											
289.9224	28:59	28:59	0	0.860	3737164	729394	2309	5772	316		
291.9194	28:58	28:59	-1	0.860	4917955	942184	2336	5840	403	0.76(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:14	29:14	0	0.868	2978284	618233	2309	5772	268		
291.9194	29:14	29:14	0	0.868	3834305	783866	2336	5840	336	0.78(0.65-0.89)	
PCB-61											
289.9224	29:35	29:35	0	0.878	13212535	1560538	2309	5772	676		
291.9194	29:35	29:35	0	0.878	17034355	1978959	2336	5840	847	0.78(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:35	29:35	0	0.878	13212535	1560538	2309	5772	676		
291.9194	29:35	29:35	0	0.878	17034355	1978959	2336	5840	847	0.78(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:35	29:35	0	0.878	13212535	1560538	2309	5772	676		
291.9194	29:35	29:35	0	0.878	17034355	1978959	2336	5840	847	0.78(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:35	29:35	0	0.878	13212535	1560538	2309	5772	676		
291.9194	29:35	29:35	0	0.878	17034355	1978959	2336	5840	847	0.78(0.65-0.89)	
PCB-66											
289.9224	29:54	29:54	0	0.888	3425783	695018	2309	5772	301		
291.9194	29:54	29:54	0	0.888	4425034	868874	2336	5840	372	0.77(0.65-0.89)	
PCB-55											
289.9224	30:04	30:04	0	0.893	3626121	736941	2309	5772	319		
291.9194	30:04	30:04	0	0.893	4667316	938255	2336	5840	402	0.78(0.65-0.89)	
PCB-56											
289.9224	30:34	30:34	0	0.908	3277275	670565	2309	5772	290		
291.9194	30:34	30:34	0	0.908	4220594	859830	2336	5840	368	0.78(0.65-0.89)	
PCB-60											
289.9224	30:47	30:47	0	0.914	2923991	605222	2309	5772	262		
291.9194	30:47	30:47	0	0.914	3822067	769658	2336	5840	329	0.77(0.65-0.89)	
PCB-80											
289.9224	31:10	31:10	0	0.926	3722460	738087	2309	5772	320		
291.9194	31:10	31:10	0	0.926	4522040	918931	2336	5840	393	0.82(0.65-0.89)	
PCB-79											
289.9224	32:42	32:42	0	0.971	3700398	697121	2309	5772	302		
291.9194	32:42	32:42	0	0.971	4747899	893376	2336	5840	382	0.78(0.65-0.89)	
PCB-78											
289.9224	33:16	33:16	0	0.988	2971739	578282	2309	5772	250		
291.9194	33:16	33:16	0	0.988	3745744	738481	2336	5840	316	0.79(0.65-0.89)	
PCB-81											
289.9224	33:42	33:42	0	1.001	2752988	514965	2309	5772	223		
291.9194	33:42	33:42	0	1.001	3544124	685277	2336	5840	293	0.78(0.65-0.89)	
PCB-77											
289.9224	34:16	34:16	0	1.000	2989947	559657	2309	5772	242		
291.9194	34:16	34:16	0	1.000	3768183	710450	2336	5840	304	0.79(0.65-0.89)	
PCB-104L											
337.9207	25:43	25:43	0	0.814	5030501	1121816	124	310	9047		
339.9178	25:43	25:43	0	0.814	3179071	710532	69	172	10298	1.58(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:42	28:42	0	1.116	1792468	378579	124	310	3053		
339.9178	28:41	28:42	-1	1.115	1132041	237659	69	172	3444	1.58(1.32-1.78)	
PCB-101L											
337.9207	31:36	31:36	0		4118249	865150	124	310	6977		
339.9178	31:36	31:36	0		2565505	539225	69	172	7815	1.61(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:17	0	1.085	2638122	532465	124	310	4294		
339.9178	34:17	34:17	0	1.085	1661456	338783	69	172	4910	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:14	36:14	0	1.147	7276592	1429671	5938	14845	241		
339.9178	36:14	36:14	0	1.147	4660382	925444	3934	9835	235	1.56(1.32-1.78)	
PCB-118L											
337.9207	36:33	36:33	0	1.157	7688556	1476412	5938	14845	249		
339.9178	36:33	36:33	0	1.157	4834231	925290	3934	9835	235	1.59(1.32-1.78)	
PCB-114L											
337.9207	37:05	37:05	0	1.173	7399779	1442408	5938	14845	243		
339.9178	37:06	37:05	1	1.174	4618921	905513	3934	9835	230	1.60(1.32-1.78)	
PCB-105L											
337.9207	37:45	37:45	0	1.194	7037158	1356162	5938	14845	228		
339.9178	37:44	37:45	-1	1.194	4455081	847093	3934	9835	215	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:13	0		7327098	1425993	5938	14845	240		
339.9178	39:13	39:13	0		4645457	901182	3934	9835	229	1.58(1.32-1.78)	
PCB-126L											
337.9207	40:49	40:49	0	1.292	7079945	1336355	5938	14845	225		
339.9178	40:49	40:49	0	1.292	4488036	849290	3934	9835	216	1.58(1.32-1.78)	
PCB-104											
325.8804	25:45	25:45	0	1.001	2652887	590675	160	400	3692		
327.8775	25:45	25:45	0	1.001	1663897	371329	82	205	4528	1.59(1.32-1.78)	
PCB-96											
325.8804	26:08	26:08	0	1.016	2797456	601632	160	400	3760		
327.8775	26:08	26:08	0	1.016	1724964	381154	82	205	4648	1.62(1.32-1.78)	
PCB-103											
325.8804	28:02	28:02	0	1.090	2264139	482951	160	400	3018		
327.8775	28:02	28:02	0	1.090	1415406	299850	82	205	3657	1.60(1.32-1.78)	
PCB-94											
325.8804	28:16	28:16	0	1.099	1923534	400567	160	400	2504		
327.8775	28:16	28:16	0	1.099	1198528	244905	82	205	2987	1.60(1.32-1.78)	
PCB-95											
325.8804	28:42	28:42	0	1.116	2131039	448639	160	400	2804		
327.8775	28:42	28:42	0	1.116	1311540	278510	82	205	3396	1.62(1.32-1.78)	
PCB-93											
325.8804	28:55	28:55	0	1.124	4299338	770492	160	400	4816		
327.8775	28:55	28:55	0	1.124	2697417	491019	82	205	5988	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:55	28:55	0	1.124	4299338	770492	160	400	4816		
327.8775	28:55	28:55	0	1.124	2697417	491019	82	205	5988	1.59(1.32-1.78)	
PCB-98											
325.8804	29:04	29:04	0	1.130	4293952	530882	160	400	3318		M
327.8775	29:04	29:04	0	1.130	2657005	334090	82	205	4074	1.62(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:04	29:04	0	1.130	4293952	530882	160	400	3318		M
327.8775	29:04	29:04	0	1.130	2657005	334090	82	205	4074	1.62(1.32-1.78)	M
PCB-88											
325.8804	29:34	29:34	0	1.150	4167897	449543	160	400	2810		
327.8775	29:35	29:34	1	1.150	2584154	279313	82	205	3406	1.61(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:34	29:34	0	1.150	4167897	449543	160	400	2810		
327.8775	29:35	29:34	1	1.150	2584154	279313	82	205	3406	1.61(1.32-1.78)	
PCB-84											
325.8804	29:48	29:48	0	1.159	1918840	392302	160	400	2452		
327.8775	29:48	29:48	0	1.159	1210228	249261	82	205	3040	1.59(1.32-1.78)	
PCB-89											
325.8804	30:17	30:17	0	1.177	2009341	411290	160	400	2571		
327.8775	30:17	30:17	0	1.177	1252346	264529	82	205	3226	1.60(1.32-1.78)	
PCB-121											
325.8804	30:40	30:40	0	1.192	3380265	718936	160	400	4493		
327.8775	30:40	30:40	0	1.192	2089610	442046	82	205	5391	1.62(1.32-1.78)	
PCB-92											
325.8804	31:03	31:03	0	0.857	2217828	450104	160	400	2813		
327.8775	31:03	31:03	0	0.857	1408863	280401	82	205	3420	1.57(1.32-1.78)	
PCB-90											
325.8804	31:36	31:36	0	1.229	7393058	1082839	160	400	6768		
327.8775	31:36	31:36	0	1.229	4650430	678835	82	205	8278	1.59(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:36	31:36	0	1.229	7393058	1082839	160	400	6768		
327.8775	31:36	31:36	0	1.229	4650430	678835	82	205	8278	1.59(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:36	31:36	0	1.229	7393058	1082839	160	400	6768		
327.8775	31:36	31:36	0	1.229	4650430	678835	82	205	8278	1.59(1.32-1.78)	
PCB-83											
325.8804	32:12	32:12	0	1.252	4365222	562561	160	400	3516		
327.8775	32:13	32:12	1	1.253	2757583	348578	82	205	4251	1.58(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:12	32:12	0	1.252	4365222	562561	160	400	3516		
327.8775	32:13	32:12	1	1.253	2757583	348578	82	205	4251	1.58(1.32-1.78)	
PCB-112											
325.8804	32:19	32:19	0	1.257	3648701	717943	160	400	4487		
327.8775	32:19	32:19	0	1.257	2300274	452585	82	205	5519	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:42	32:42	0	1.271	16174741	1696831	160	400	10605		M
327.8775	32:42	32:42	0	1.271	10015285	1049632	82	205	12800	1.62(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:42	32:42	0	1.271	16174741	1696831	160	400	10605		M
327.8775	32:42	32:42	0	1.271	10015285	1049632	82	205	12800	1.62(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:42	32:42	0	1.271	16174741	1696831	160	400	10605		M
327.8775	32:42	32:42	0	1.271	10015285	1049632	82	205	12800	1.62(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:42	32:42	0	1.271	16174741	1696831	160	400	10605		M
327.8775	32:42	32:42	0	1.271	10015285	1049632	82	205	12800	1.62(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:42	32:42	0	1.271	16174741	1696831	160	400	10605		M
327.8775	32:42	32:42	0	1.271	10015285	1049632	82	205	12800	1.62(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:42	32:42	0	1.271	16174741	1696831	160	400	10605		M
327.8775	32:42	32:42	0	1.271	10015285	1049632	82	205	12800	1.62(1.32-1.78)	M
PCB-85											
325.8804	33:25	33:25	0	1.300	7891536	946772	160	400	5917		
327.8775	33:25	33:25	0	1.300	4990994	589944	82	205	7194	1.58(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:25	33:25	0	1.300	7891536	946772	160	400	5917		
327.8775	33:25	33:25	0	1.300	4990994	589944	82	205	7194	1.58(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:25	33:25	0	1.300	7891536	946772	160	400	5917		
327.8775	33:25	33:25	0	1.300	4990994	589944	82	205	7194	1.58(1.32-1.78)	
PCB-110											
325.8804	33:38	33:38	0	1.308	6114941	827705	160	400	5173		
327.8775	33:37	33:38	-1	1.307	3836072	514835	82	205	6278	1.59(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:38	33:38	0	1.308	6114941	827705	160	400	5173		
327.8775	33:37	33:38	-1	1.307	3836072	514835	82	205	6278	1.59(1.32-1.78)	
PCB-82											
325.8804	33:56	33:56	0	1.320	2115680	416734	160	400	2605		
327.8775	33:56	33:56	0	1.320	1385244	259278	82	205	3162	1.53(1.32-1.78)	
PCB-111											
325.8804	34:18	34:18	0	1.334	3140204	634969	160	400	3969		
327.8775	34:18	34:18	0	1.334	1992712	396890	82	205	4840	1.58(1.32-1.78)	
PCB-120											
325.8804	34:45	34:45	0	1.351	3773307	747027	160	400	4669		
327.8775	34:45	34:45	0	1.351	2334128	475230	82	205	5795	1.62(1.32-1.78)	
PCB-108											
325.8804	35:54	35:54	0	1.396	7293107	1444290	3393	8482	426		
327.8775	35:54	35:54	0	1.396	4755985	938253	2462	6155	381	1.53(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:54	35:54	0	1.396	7293107	1444290	3393	8482	426		
327.8775	35:54	35:54	0	1.396	4755985	938253	2462	6155	381	1.53(1.32-1.78)	
PCB-107											
325.8804	36:09	36:09	0	1.406	4128925	796323	3393	8482	235		
327.8775	36:09	36:09	0	1.406	2670926	500826	2462	6155	203	1.55(1.32-1.78)	
PCB-123											
325.8804	36:15	36:15	0	1.000	3636118	729464	3393	8482	215		
327.8775	36:15	36:15	0	1.000	2365351	462131	2462	6155	188	1.54(1.32-1.78)	
PCB-106											
325.8804	36:22	36:22	0	1.004	3659716	727951	3393	8482	215		
327.8775	36:22	36:22	0	1.004	2370616	468779	2462	6155	190	1.54(1.32-1.78)	
PCB-118											
325.8804	36:35	36:35	0	1.001	4217156	779930	3393	8482	230		
327.8775	36:35	36:35	0	1.001	2705664	500212	2462	6155	203	1.56(1.32-1.78)	
PCB-122											
325.8804	36:56	36:56	0	1.010	3200007	657167	3393	8482	194		
327.8775	36:56	36:56	0	1.010	2148974	417468	2462	6155	170	1.49(1.32-1.78)	
PCB-114											
325.8804	37:06	37:06	0	1.001	3747187	695367	3393	8482	205		
327.8775	37:06	37:06	0	1.001	2396102	444954	2462	6155	181	1.56(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.000	3961337	706001	3393	8482	208		
327.8775	37:46	37:46	0	1.000	2514960	458809	2462	6155	186	1.58(1.32-1.78)	
PCB-127											
325.8804	39:13	39:13	0	1.039	3806458	680081	3393	8482	200		
327.8775	39:13	39:13	0	1.039	2498826	449191	2462	6155	182	1.52(1.32-1.78)	
PCB-126											
325.8804	40:51	40:51	0	1.001	3790345	626654	3393	8482	185		
327.8775	40:50	40:51	-1	1.000	2461258	415843	2462	6155	169	1.54(1.32-1.78)	
PCB-155L											
371.8817	31:22	31:22	0	0.790	4237495	878285	140	350	6273		
373.8788	31:21	31:22	-1	0.790	3324914	682583	118	295	5785	1.27(1.05-1.43)	
PCB-153L											
371.8817	38:25	38:25	0	0.901	2556854	501492	3276	8190	153		
373.8788	38:25	38:25	0	0.901	2002134	403956	2434	6085	166	1.28(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:41	0		5025096	963594	3276	8190	294		
373.8788	39:41	39:41	0		3873430	731772	2434	6085	301	1.30(1.05-1.43)	
PCB-167L											
371.8817	42:40	42:40	0	1.075	6332381	1221420	3276	8190	373		
373.8788	42:40	42:40	0	1.075	5005694	945381	2434	6085	388	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:49	43:49	0	1.104	12427196	1563010	3276	8190	477		
373.8788	43:50	43:49	1	1.105	9609153	1215071	2434	6085	499	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157L (C156L)											
371.8817	43:49	43:49	0	1.104	12427196	1563010	3276	8190	477		
373.8788	43:50	43:49	1	1.105	9609153	1215071	2434	6085	499	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:03	47:03	0	1.186	6308379	1148175	3276	8190	350		
373.8788	47:03	47:03	0	1.186	5027193	919001	2434	6085	378	1.25(1.05-1.43)	
PCB-155											
359.8415	31:23	31:23	0	1.000	2033753	423329	82	205	5163		
361.8385	31:23	31:23	0	1.000	1597919	327951	64	160	5124	1.27(1.05-1.43)	
PCB-152											
359.8415	31:36	31:36	0	1.008	2017944	420020	82	205	5122		
361.8385	31:36	31:36	0	1.008	1593430	323435	64	160	5054	1.27(1.05-1.43)	
PCB-150											
359.8415	31:46	31:46	0	1.013	2168082	449373	82	205	5480		
361.8385	31:46	31:46	0	1.013	1704050	353523	64	160	5524	1.27(1.05-1.43)	
PCB-136											
359.8415	32:08	32:08	0	1.024	2134894	436338	82	205	5321		
361.8385	32:09	32:08	1	1.025	1658350	341877	64	160	5342	1.29(1.05-1.43)	
PCB-145											
359.8415	32:26	32:26	0	1.034	2072910	425461	82	205	5189		
361.8385	32:26	32:26	0	1.034	1613642	333323	64	160	5208	1.28(1.05-1.43)	
PCB-148											
359.8415	33:55	33:55	0	1.082	1591345	330502	82	205	4031		
361.8385	33:55	33:55	0	1.082	1259066	262598	64	160	4103	1.26(1.05-1.43)	
PCB-135											
359.8415	34:31	34:31	0	1.100	3057492	336402	82	205	4102		M
361.8385	34:31	34:31	0	1.100	2448201	272963	64	160	4265	1.25(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:31	34:31	0	1.100	3057492	336402	82	205	4102		M
361.8385	34:31	34:31	0	1.100	2448201	272963	64	160	4265	1.25(1.05-1.43)	M
PCB-154											
359.8415	34:46	34:46	0	1.108	1710906	343013	82	205	4183		
361.8385	34:46	34:46	0	1.108	1359305	275955	64	160	4312	1.26(1.05-1.43)	
PCB-144											
359.8415	35:05	35:05	0	1.119	1695727	336176	82	205	4100		
361.8385	35:05	35:05	0	1.119	1298043	258746	64	160	4043	1.31(1.05-1.43)	
PCB-147											
359.8415	35:27	35:27	0	1.130	5483124	1068792	1913	4782	559		
361.8385	35:26	35:27	-1	1.130	4382421	837324	923	2307	907	1.25(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:27	35:27	0	1.130	5483124	1068792	1913	4782	559		
361.8385	35:26	35:27	-1	1.130	4382421	837324	923	2307	907	1.25(1.05-1.43)	
PCB-134											
359.8415	35:45	35:45	0	1.140	4792469	533026	1913	4782	279		
361.8385	35:44	35:45	-1	1.140	3812222	416711	923	2307	451	1.26(1.05-1.43)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											
359.8415	35:45	35:45	0	1.140	4792469	533026	1913	4782	279		
361.8385	35:44	35:45	-1	1.140	3812222	416711	923	2307	451	1.26(1.05-1.43)	
PCB-139											
359.8415	36:02	36:02	0	1.149	5147407	921954	1913	4782	482		
361.8385	36:02	36:02	0	1.149	4158684	738670	923	2307	800	1.24(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:02	36:02	0	1.149	5147407	921954	1913	4782	482		
361.8385	36:02	36:02	0	1.149	4158684	738670	923	2307	800	1.24(1.05-1.43)	
PCB-131											
359.8415	36:14	36:14	0	1.155	2280316	450210	1913	4782	235		
361.8385	36:14	36:14	0	1.155	1825191	367439	923	2307	398	1.25(1.05-1.43)	
PCB-142											
359.8415	36:23	36:23	0	1.160	2331080	459958	1913	4782	240		M
361.8385	36:23	36:23	0	1.160	1852537	374827	923	2307	406	1.26(1.05-1.43)	M
PCB-132											
359.8415	36:43	36:43	0	1.171	2203365	440643	1913	4782	230		M
361.8385	36:43	36:43	0	1.171	1757101	350153	923	2307	379	1.25(1.05-1.43)	M
PCB-133											
359.8415	37:12	37:12	0	1.186	2412660	467317	1913	4782	244		
361.8385	37:12	37:12	0	1.186	1930386	379145	923	2307	411	1.25(1.05-1.43)	
PCB-165											
359.8415	37:36	37:36	0	0.881	3210393	627553	1913	4782	328		
361.8385	37:36	37:36	0	0.881	2511199	500394	923	2307	542	1.28(1.05-1.43)	
PCB-146											
359.8415	37:51	37:51	0	0.887	2954432	581833	1913	4782	304		
361.8385	37:51	37:51	0	0.887	2347064	458848	923	2307	497	1.26(1.05-1.43)	
PCB-161											
359.8415	37:58	37:58	0	0.890	3318181	667555	1913	4782	349		M
361.8385	37:58	37:58	0	0.890	2679114	538202	923	2307	583	1.24(1.05-1.43)	M
PCB-153											
359.8415	38:28	38:28	0	0.902	6724064	983246	1913	4782	514		M
361.8385	38:28	38:28	0	0.902	5402843	778102	923	2307	843	1.24(1.05-1.43)	M
PCB-168 (C153)											
359.8415	38:28	38:28	0	0.902	6724064	983246	1913	4782	514		M
361.8385	38:28	38:28	0	0.902	5402843	778102	923	2307	843	1.24(1.05-1.43)	M
PCB-141											
359.8415	38:39	38:39	0	0.906	2631572	493721	1913	4782	258		
361.8385	38:39	38:39	0	0.906	1940906	379109	923	2307	411	1.36(1.05-1.43)	
PCB-130											
359.8415	39:04	39:04	0	0.916	2072582	419783	1913	4782	219		
361.8385	39:04	39:04	0	0.916	1706912	347442	923	2307	376	1.21(1.05-1.43)	
PCB-137											
359.8415	39:16	39:16	0	0.921	2368003	453549	1913	4782	237		
361.8385	39:16	39:16	0	0.921	1916930	376880	923	2307	408	1.24(1.05-1.43)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											
359.8415	39:24	39:24	0	0.924	3196889	627410	1913	4782	328		
361.8385	39:24	39:24	0	0.924	2475065	489205	923	2307	530	1.29(1.05-1.43)	
PCB-129											
359.8415	39:42	39:42	0	0.931	11193553	1259102	1913	4782	658		M
361.8385	39:42	39:42	0	0.931	8957824	1012573	923	2307	1097	1.25(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:42	39:42	0	0.931	11193553	1259102	1913	4782	658		M
361.8385	39:42	39:42	0	0.931	8957824	1012573	923	2307	1097	1.25(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:42	39:42	0	0.931	11193553	1259102	1913	4782	658		M
361.8385	39:42	39:42	0	0.931	8957824	1012573	923	2307	1097	1.25(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:42	39:42	0	0.931	11193553	1259102	1913	4782	658		M
361.8385	39:42	39:42	0	0.931	8957824	1012573	923	2307	1097	1.25(1.05-1.43)	M
PCB-158											
359.8415	40:05	40:05	0	0.940	3863696	729797	1913	4782	381		
361.8385	40:05	40:05	0	0.940	3100816	576789	923	2307	625	1.25(1.05-1.43)	
PCB-128											
359.8415	40:56	40:56	0	0.959	5882008	805431	1913	4782	421		
361.8385	40:56	40:56	0	0.959	4720994	667602	923	2307	723	1.25(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:56	40:56	0	0.959	5882008	805431	1913	4782	421		
361.8385	40:56	40:56	0	0.959	4720994	667602	923	2307	723	1.25(1.05-1.43)	
PCB-159											
359.8415	41:56	41:56	0	0.983	4096986	782602	1913	4782	409		
361.8385	41:56	41:56	0	0.983	3245439	646195	923	2307	700	1.26(1.05-1.43)	
PCB-162											
359.8415	42:13	42:13	0	0.990	3749932	675313	1913	4782	353		
361.8385	42:13	42:13	0	0.990	2956378	551862	923	2307	598	1.27(1.05-1.43)	
PCB-167											
359.8415	42:41	42:41	0	1.001	3387104	646284	1913	4782	338		
361.8385	42:41	42:41	0	1.001	2714083	515915	923	2307	559	1.25(1.05-1.43)	
PCB-156											
359.8415	43:52	43:52	0	1.001	6663596	842861	1913	4782	441		
361.8385	43:51	43:52	-1	1.001	5324393	682491	923	2307	739	1.25(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:52	43:52	0	1.001	6663596	842861	1913	4782	441		
361.8385	43:51	43:52	-1	1.001	5324393	682491	923	2307	739	1.25(1.05-1.43)	
PCB-169											
359.8415	47:05	47:05	0	1.001	3668578	613584	1913	4782	321		
361.8385	47:05	47:05	0	1.001	2804192	479366	923	2307	519	1.31(1.05-1.43)	
PCB-188L											
405.8428	37:05	37:05	0	0.820	4726040	942942	95	237	9926		
407.8398	37:05	37:05	0	0.820	4473735	879451	129	322	6817	1.06(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:08	40:08	0	0.888	1728357	332823	95	237	3503		
407.8398	40:08	40:08	0	0.888	1591636	317489	129	322	2461	1.09(0.89-1.21)	
PCB-180L											
405.8428	45:13	45:13	0		3594151	701343	95	237	7383		
407.8398	45:13	45:13	0		3393916	648129	129	322	5024	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:28	46:28	0	1.028	3111020	594302	95	237	6256		
407.8398	46:28	46:28	-1	1.028	2879927	540207	129	322	4188	1.08(0.89-1.21)	
PCB-189L											
405.8428	49:34	49:34	0	1.096	6788148	1255972	825	2062	1522		
407.8398	49:34	49:34	0	1.096	6425487	1186210	2173	5432	546	1.06(0.89-1.21)	
PCB-188											
393.8025	37:06	37:06	0	1.001	2683864	530707	52	130	10206		
395.7995	37:06	37:06	-1	1.000	2523791	501826	68	170	7380	1.06(0.89-1.21)	
PCB-179											
393.8025	37:27	37:27	0	1.010	2702813	526936	52	130	10133		
395.7995	37:27	37:27	0	1.010	2569080	502784	68	170	7394	1.05(0.89-1.21)	
PCB-184											
393.8025	37:58	37:58	0	1.024	2681596	533612	52	130	10262		
395.7995	37:58	37:58	0	1.024	2488720	490569	68	170	7214	1.08(0.89-1.21)	
PCB-176											
393.8025	38:20	38:20	0	1.034	2349155	461610	52	130	8877		
395.7995	38:20	38:20	0	1.034	2224264	432886	68	170	6366	1.06(0.89-1.21)	
PCB-186											
393.8025	38:47	38:47	0	1.046	2916051	572440	52	130	11008		
395.7995	38:47	38:47	0	1.046	2760009	522053	68	170	7677	1.06(0.89-1.21)	
PCB-178											
393.8025	40:09	40:09	0	1.083	1758767	341080	52	130	6559		
395.7995	40:09	40:09	0	1.083	1667617	322412	68	170	4741	1.05(0.89-1.21)	
PCB-175											
393.8025	40:47	40:47	0	1.100	1912939	373006	52	130	7173		
395.7995	40:47	40:47	0	1.100	1753184	347232	68	170	5106	1.09(0.89-1.21)	
PCB-187											
393.8025	41:03	41:03	0	1.107	2191711	437401	52	130	8412		
395.7995	41:03	41:03	0	1.107	2056643	400182	68	170	5885	1.07(0.89-1.21)	
PCB-182											
393.8025	41:15	41:15	0	1.112	1869170	356035	52	130	6847		
395.7995	41:15	41:15	0	1.112	1772247	336243	68	170	4945	1.05(0.89-1.21)	
PCB-183											
393.8025	41:39	41:39	0	1.123	3767313	393985	52	130	7577		Ma
395.7995	41:40	41:39	1	1.124	3502261	361791	68	170	5320	1.08(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:39	41:39	0	1.123	3767313	393985	52	130	7577		Ma
395.7995	41:40	41:39	1	1.124	3502261	361791	68	170	5320	1.08(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											
393.8025	41:55	41:55	0	1.130	1928522	367125	52	130	7060		
395.7995	41:55	41:55	0	1.130	1818070	353546	68	170	5199	1.06(0.89-1.21)	
PCB-177											
393.8025	42:21	42:21	0	1.142	1890826	345503	52	130	6644		
395.7995	42:21	42:21	0	1.142	1823965	328803	68	170	4835	1.04(0.89-1.21)	
PCB-181											
393.8025	42:44	42:44	0	1.152	1863738	362414	52	130	6970		
395.7995	42:43	42:44	-1	1.152	1756785	338450	68	170	4977	1.06(0.89-1.21)	
PCB-171											
393.8025	42:57	42:57	0	1.158	3506948	621415	52	130	11950		
395.7995	42:57	42:57	0	1.158	3359227	592115	68	170	8708	1.04(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:57	42:57	0	1.158	3506948	621415	52	130	11950		
395.7995	42:57	42:57	0	1.158	3359227	592115	68	170	8708	1.04(0.89-1.21)	
PCB-172											
393.8025	44:35	44:35	0	0.899	1706214	329704	52	130	6340		
395.7995	44:35	44:35	0	0.899	1592711	312357	68	170	4593	1.07(0.89-1.21)	
PCB-192											
393.8025	44:51	44:51	0	0.905	2785353	531190	52	130	10215		
395.7995	44:51	44:51	0	0.905	2624487	495096	68	170	7281	1.06(0.89-1.21)	
PCB-180											
393.8025	45:12	45:12	0	0.912	4685072	630891	52	130	12133		
395.7995	45:12	45:12	0	0.912	4376860	600744	68	170	8834	1.07(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:12	45:12	0	0.912	4685072	630891	52	130	12133		
395.7995	45:12	45:12	0	0.912	4376860	600744	68	170	8834	1.07(0.89-1.21)	
PCB-191											
393.8025	45:35	45:35	0	0.919	2631983	500701	52	130	9629		
395.7995	45:35	45:35	0	0.919	2525479	480002	68	170	7059	1.04(0.89-1.21)	
PCB-170											
393.8025	46:29	46:29	0	0.938	1775091	330342	52	130	6353		
395.7995	46:29	46:29	0	0.938	1691671	325025	68	170	4780	1.05(0.89-1.21)	
PCB-190											
393.8025	47:00	47:00	0	0.948	2658225	504097	52	130	9694		
395.7995	47:00	47:00	0	0.948	2555607	481929	68	170	7087	1.04(0.89-1.21)	
PCB-189											
393.8025	49:35	49:35	0	1.000	2972374	560794	660	1650	850		
395.7995	49:36	49:35	1	1.001	2953376	553318	531	1327	1042	1.01(0.89-1.21)	
PCB-202L											
439.8038	42:26	42:26	0	0.821	3228537	634658	59	147	10757		
441.8008	42:26	42:26	0	0.821	3605329	719653	64	160	11245	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:40	51:40	0		4813867	900712	151	377	5965		
441.8008	51:40	51:40	0		5171367	954286	230	575	4149	0.93(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:09	52:09	0	1.009	5658171	1048494	151	377	6944		
441.8008	52:09	52:09	0	1.009	6211118	1170853	230	575	5091	0.91(0.76-1.02)	
PCB-202											
427.7635	42:27	42:27	0	1.000	1749268	341993	92	230	3717		
429.7606	42:28	42:27	1	1.001	1967158	382964	143	357	2678	0.89(0.76-1.02)	
PCB-201											
427.7635	43:22	43:22	0	1.022	1650384	322225	92	230	3502		
429.7606	43:22	43:22	0	1.022	1797909	346587	143	357	2424	0.92(0.76-1.02)	
PCB-204											
427.7635	44:03	44:03	0	1.038	1728815	332978	92	230	3619		
429.7606	44:03	44:03	0	1.038	1868030	357509	143	357	2500	0.93(0.76-1.02)	
PCB-197											
427.7635	44:16	44:16	0	1.043	1805575	350210	92	230	3807		
429.7606	44:16	44:16	0	1.043	2004599	377713	143	357	2641	0.90(0.76-1.02)	
PCB-200											
427.7635	44:24	44:24	0	1.046	1730022	344027	92	230	3739		
429.7606	44:24	44:24	0	1.046	1915842	364886	143	357	2552	0.90(0.76-1.02)	
PCB-198											
427.7635	47:09	47:09	0	1.111	2871727	361338	92	230	3928		
429.7606	47:09	47:09	0	1.111	3195832	407878	143	357	2852	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:09	47:09	0	1.111	2871727	361338	92	230	3928		
429.7606	47:09	47:09	0	1.111	3195832	407878	143	357	2852	0.90(0.76-1.02)	
PCB-196											
427.7635	47:50	47:50	0	0.917	1281911	246161	92	230	2676		
429.7606	47:50	47:50	0	0.917	1445515	277433	143	357	1940	0.89(0.76-1.02)	
PCB-203											
427.7635	48:01	48:01	0	0.921	1605695	306991	92	230	3337		
429.7606	48:01	48:01	0	0.921	1786130	335455	143	357	2346	0.90(0.76-1.02)	
PCB-195											
427.7635	49:21	49:21	0	0.947	2322148	445948	640	1600	697		
429.7606	49:21	49:21	0	0.947	2563278	481523	2567	6417	188	0.91(0.76-1.02)	
PCB-194											
427.7635	51:42	51:42	0	0.991	2599625	487234	640	1600	761		
429.7606	51:42	51:42	0	0.991	2929111	557649	2567	6417	217	0.89(0.76-1.02)	
PCB-205											
427.7635	52:10	52:10	0	1.000	3022997	555682	640	1600	868		
429.7606	52:10	52:10	0	1.000	3383428	624105	2567	6417	243	0.89(0.76-1.02)	
PCB-208L											
473.7648	49:06	49:06	0	0.950	4495473	858896	671	1677	1280		
475.7619	49:06	49:06	0	0.950	5588096	1056693	528	1320	2001	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:54	53:54	0	1.043	3314245	613736	671	1677	915		
475.7619	53:54	53:54	0	1.043	4107009	748932	528	1320	1418	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208											
461.7246	49:08	49:08	0	1.001	2507768	466780	412	1030	1133		
463.7216	49:07	49:08	-1	1.000	3172557	600383	902	2255	666	0.79(0.65-0.89)	
PCB-207											
461.7246	50:03	50:03	0	1.019	2571349	480472	412	1030	1166		
463.7216	50:03	50:03	0	1.019	3265592	617634	902	2255	685	0.79(0.65-0.89)	
PCB-206											
461.7246	53:55	53:55	0	1.000	2033594	375311	412	1030	911		
463.7216	53:55	53:55	0	1.000	2610218	475722	902	2255	527	0.78(0.65-0.89)	
PCB-209L											
507.7258	55:31	55:31	0	1.074	3022073	528214	92	230	5741		
509.7229	55:30	55:31	-1	1.074	4275186	749799	84	210	8926	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:33	55:33	0	1.000	1732438	295749	82	205	3607		
497.6826	55:33	55:33	0	1.000	2360204	419409	40	100	10485	0.73(0.59-0.79)	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

61CV1668CS3\_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
CCV Relative RT Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
 Lims ID: WDMCCV  
 Client ID:  
 Sample Type: WDMCCV  
 Inject. Date: 28-Jun-2024 23:29:00 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033313-001  
 Operator ID: Xcalibur\_System Instrument ID: D2D  
 Sublist: chrom-PCBs\_D2D\*sub2  
 Method: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\PCBs\_D2D.m  
 Limit Group: HR - EPA\_23 PCB ICAL  
 Last Update: 29-Jun-2024 18:17:33 Calib Date: 31-May-2024 21:13:00  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
 Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
 Process Host: CTX1642  
 First Level Reviewer: V4XA Date: 29-Jun-2024 00:36:38  
 Start Cal Date: 31-May-2024 14:36:00  
 End Cal Date: 31-May-2024 21:13:00

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-1L		11:34	11:41	7	15	0.7253	0.7286	0.717 - 0.7472
PCB-3L		13:43	13:49	7	15	0.8606	0.8623	0.849 - 0.8798
PCB-1	L	11:35	11:42	7		1.0011	1.0011	0.995 - 1.0085
PCB-2		13:34	13:40	7		0.9885	0.9886	0.985 - 0.9925
PCB-3	L	13:44	13:50	7		1.0010	1.0010	0.998 - 1.0048
PCB-4L		13:59	14:05	7	15	0.8771	0.8787	0.865 - 0.8956
PCB-9L		15:57	16:02	6		1.0000	1.0000	0.987 - 1.0128
PCB-8L		16:48	16:52	5		1.1991	1.1978	1.192 - 1.1989
PCB-15L		19:52	19:57	5	15	1.2459	1.2443	1.233 - 1.2530
PCB-4	L	14:00	14:06	7		1.0009	1.0009	0.994 - 1.0058
PCB-10		14:10	14:16	7		1.0132	1.0131	1.010 - 1.0168
PCB-9		15:58	16:03	6		1.1421	1.1399	1.135 - 1.1415
PCB-7		16:08	16:13	6		1.1534	1.1511	1.147 - 1.1538
PCB-6		16:22	16:28	6		1.1703	1.1689	1.164 - 1.1706
PCB-5		16:41	16:46	6		1.1929	1.1903	1.186 - 1.1926
PCB-8		16:48	16:54	6		1.2013	1.1997	1.194 - 1.2008
PCB-14		18:26	18:30	5		0.9278	0.9275	0.926 - 0.9305
PCB-11		19:16	19:21	5		0.9702	0.9697	0.968 - 0.9725
PCB-12/13		19:34	19:39	5		0.9848	0.9848	0.983 - 0.9875
PCB-15	L	19:53	19:58	5		1.0013	1.0007	0.997 - 1.0050
PCB-19L		17:05	17:10	6	15	0.8402	0.8415	0.831 - 0.8547
PCB-32L		20:20	20:24	5		1.0000	1.0000	0.998 - 1.0024
PCB-31L		22:37	22:40	4		1.0000	1.0000	0.998 - 1.0022
PCB-28L		22:55	22:57	3		1.0130	1.0130	1.006 - 1.0201

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-37L		26:54	26:57	3	15	1.1902	1.1896	1.178 - 1.1995
PCB-19	L	17:06	17:12	6		1.0008	1.0015	0.996 - 1.0058
PCB-18/30		18:57	19:00	4		1.1085	1.1064	1.104 - 1.1093
PCB-17		19:23	19:28	5		1.1347	1.1332	1.129 - 1.1352
PCB-27		19:37	19:41	5		1.1478	1.1462	1.141 - 1.1471
PCB-24		19:44	19:48	5		1.1547	1.1531	1.148 - 1.1542
PCB-16		19:51	19:55	5		1.1617	1.1600	1.156 - 1.1621
PCB-32		20:22	20:26	5		1.1917	1.1898	1.185 - 1.1908
PCB-34		21:37	21:41	4		1.2654	1.2623	1.257 - 1.2623
PCB-23		21:47	21:50	4		1.2744	1.2713	1.266 - 1.2715
PCB-26/29		22:06	22:09	4		1.2931	1.2899	1.282 - 1.2915
PCB-25		22:19	22:22	4		0.8293	0.8297	0.829 - 0.8325
PCB-31		22:38	22:41	4		0.8412	0.8416	0.840 - 0.8438
PCB-20/28		22:56	23:00	4		0.8526	0.8530	0.851 - 0.8568
PCB-21/33		23:06	23:10	4		0.8588	0.8591	0.858 - 0.8637
PCB-22		23:33	23:37	4		0.8754	0.8762	0.875 - 0.8786
PCB-36		25:07	25:09	3		0.9334	0.9331	0.932 - 0.9352
PCB-39		25:28	25:31	4		0.9467	0.9469	0.945 - 0.9483
PCB-38		26:03	26:05	3		0.9681	0.9678	0.966 - 0.9695
PCB-35		26:31	26:34	3		0.9857	0.9858	0.984 - 0.9875
PCB-37	L	26:55	26:59	4		1.0005	1.0009	0.999 - 1.0024
PCB-54L		20:10	20:15	5	15	0.8149	0.8169	0.811 - 0.8247
PCB-52L		24:45	24:47	3		1.0000	1.0000	0.992 - 1.0083
PCB-79L		32:41	32:41	1		0.9707	0.9704	0.969 - 0.9718
PCB-81L		33:40	33:41	1	15	1.3604	1.3590	1.351 - 1.3641
PCB-77L		34:13	34:15	2	15	1.3832	1.3822	1.373 - 1.3867
PCB-54	L	20:12	20:16	5		1.0000	1.0000	0.996 - 1.0041
PCB-50/53		22:23	22:26	4		1.1097	1.1079	1.102 - 1.1106
PCB-45/51		23:06	23:10	4		1.1459	1.1439	1.137 - 1.1453
PCB-46		23:20	23:24	4		1.1573	1.1558	1.153 - 1.1576
PCB-52		24:46	24:49	3		1.2284	1.2253	1.222 - 1.2263
PCB-43/73		24:55	24:57	3		1.2353	1.2323	1.230 - 1.2346
PCB-49/69		25:12	25:14	2		1.2499	1.2462	1.242 - 1.2499
PCB-48		25:32	25:35	3		1.2665	1.2632	1.259 - 1.2636
PCB-44/47/65		25:47	25:49	3		1.2785	1.2752	1.269 - 1.2770
PCB-59/62/75		26:05	26:08	3		1.2931	1.2904	1.284 - 1.2919
PCB-42		26:17	26:20	3		1.3033	1.3005	1.296 - 1.3007
PCB-40/41/71		26:47	26:50	3		1.3280	*1.3251	1.317 - 1.3250
PCB-64		27:00	27:02	3		1.3388	1.3352	1.331 - 1.3355
PCB-72		27:50	27:52	2		0.8271	0.8273	0.826 - 0.8291
PCB-68		28:07	28:09	2		0.8354	0.8357	0.835 - 0.8375
PCB-57		28:33	28:34	2		0.8480	0.8482	0.847 - 0.8500
PCB-58		28:47	28:49	2		0.8552	0.8554	0.854 - 0.8574
PCB-67		28:57	28:59	2		0.8601	0.8603	0.859 - 0.8620
PCB-63		29:13	29:14	2		0.8677	0.8679	0.866 - 0.8694
PCB-61/70/74/76		29:33	29:35	2		0.8780	0.8782	0.875 - 0.8810



Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-66		29:52	29:54	2		0.8875	0.8877	0.886 - 0.8894
PCB-55		30:02	30:04	2		0.8920	0.8926	0.891 - 0.8943
PCB-56		30:32	30:34	2		0.9072	0.9078	0.907 - 0.9098
PCB-60		30:45	30:47	2		0.9137	0.9138	0.913 - 0.9158
PCB-80		31:10	31:10	1		0.9259	0.9256	0.924 - 0.9268
PCB-79		32:42	32:42	1		0.9715	0.9712	0.970 - 0.9726
PCB-78		33:15	33:16	2		0.9878	0.9879	0.986 - 0.9890
PCB-81	T	33:41	33:42	1		1.0008	1.0008	0.999 - 1.0020
PCB-77	T/L	34:15	34:16	1		1.0007	1.0004	0.999 - 1.0019
PCB-104L		25:42	25:43	2	15	0.8129	0.8136	0.810 - 0.8199
PCB-95L		28:40	28:42	2		1.1155	1.1158	1.112 - 1.1179
PCB-101L		31:36	31:36	1		1.0000	1.0000	0.994 - 1.0065
PCB-111L		34:17	34:17	0		1.0850	1.0845	1.079 - 1.0891
PCB-123L		36:15	36:14	0	15	1.1469	1.1466	1.141 - 1.1511
PCB-118L		36:34	36:33	0	15	1.1573	1.1566	1.151 - 1.1614
PCB-114L		37:06	37:05	0	15	1.1739	1.1732	1.168 - 1.1780
PCB-105L		37:44	37:45	1	15	1.1943	1.1944	1.188 - 1.1989
PCB-127L		39:13	39:13	0		1.0000	1.0000	0.995 - 1.0053
PCB-126L		40:49	40:49	1	15	1.2917	1.2917	1.285 - 1.2956
PCB-104	L	25:42	25:45	3		1.0005	1.0010	0.998 - 1.0039
PCB-96		26:05	26:08	3		1.0149	1.0159	1.013 - 1.0195
PCB-103		28:01	28:02	1		1.0907	1.0900	1.087 - 1.0912
PCB-94		28:14	28:16	3		1.0991	1.0994	1.097 - 1.1003
PCB-95		28:41	28:42	2		1.1165	1.1163	1.113 - 1.1193
PCB-93/100		28:54	28:55	1		1.1250	1.1243	1.120 - 1.1267
PCB-98/102		29:03	29:04	1		1.1310	1.1302	1.127 - 1.1336
PCB-88/91		29:33	29:34	2		1.1499	1.1496	1.143 - 1.1505
PCB-84		29:46	29:48	3		1.1584	1.1591	1.157 - 1.1603
PCB-89		30:15	30:17	2		1.1773	1.1774	1.175 - 1.1786
PCB-121		30:40	30:40	0		1.1937	*1.1924	1.188 - 1.1922
PCB-92		31:02	31:03	1		0.8564	0.8566	0.856 - 0.8589
PCB-90/101/113		31:37	31:36	0		1.2306	1.2291	1.224 - 1.2307
PCB-83/99		32:12	32:12	0		1.2535	1.2520	1.245 - 1.2525
PCB-112		32:19	32:19	1		1.2580	1.2570	1.254 - 1.2574
PCB-86/87/97/109/119/125		32:41	32:42	1		1.2724	1.2714	1.265 - 1.2756
PCB-85/116/117		33:25	33:25	1		1.3008	1.2997	1.293 - 1.3007
PCB-110/115		33:36	33:38	2		1.3078	1.3077	1.303 - 1.3092
PCB-82		33:54	33:56	2		1.3198	*1.3196	1.316 - 1.3194
PCB-111		34:19	34:18	0		1.3357	*1.3340	1.329 - 1.3330
PCB-120		34:46	34:45	0		1.3531	1.3514	1.348 - 1.3514
PCB-108/124		35:54	35:54	0		1.3975	1.3960	1.390 - 1.3967
PCB-107		36:09	36:09	0		1.4072	*1.4058	1.401 - 1.4049
PCB-123	T	36:16	36:15	0		1.0007	1.0004	1.000 - 1.0023
PCB-106		36:22	36:22	0		1.0036	1.0036	1.003 - 1.0057
PCB-118	T	36:35	36:35	0		1.0004	1.0007	0.999 - 1.0019
PCB-122		36:56	36:56	0		1.0101	1.0104	1.009 - 1.0117



Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-114	T	37:07	37:06	0		1.0004	1.0007	0.999 - 1.0018
PCB-105	T	37:46	37:46	0		1.0007	1.0003	0.999 - 1.0018
PCB-127		39:14	39:13	-1		1.0397	1.0390	1.037 - 1.0399
PCB-126	T/L	40:51	40:51	1		1.0006	1.0006	1.000 - 1.0016
PCB-155L		31:22	31:22	0	15	0.7904	0.7904	0.787 - 0.7951
PCB-153L		38:27	38:25	-1		0.9005	0.9005	0.899 - 0.9028
PCB-138L		39:41	39:41	0		1.0000	1.0000	0.979 - 1.0208
PCB-167L		42:42	42:40	-2	15	1.0759	1.0752	1.071 - 1.0792
PCB-156L/157L		43:51	43:49	-2	15	1.1050	1.1043	1.100 - 1.1084
PCB-169L		47:05	47:03	-1	15	1.1862	1.1858	1.184 - 1.1864
PCB-155	L	31:24	31:23	-1		1.0008	1.0004	0.998 - 1.0031
PCB-152		31:35	31:36	2		1.0069	1.0077	1.006 - 1.0096
PCB-150		31:45	31:46	1		1.0122	1.0126	1.011 - 1.0144
PCB-136		32:07	32:08	2		1.0236	1.0245	1.024 - 1.0268
PCB-145		32:24	32:26	2		1.0330	1.0338	1.033 - 1.0358
PCB-148		33:56	33:55	0		1.0816	1.0815	1.080 - 1.0830
PCB-135/151		34:31	34:31	0		1.1004	1.1003	1.099 - 1.1038
PCB-154		34:46	34:46	0		1.1085	1.1084	1.106 - 1.1107
PCB-144		35:05	35:05	1		1.1183	1.1186	1.117 - 1.1199
PCB-147/149		35:27	35:27	0		1.1301	1.1303	1.127 - 1.1326
PCB-134/143		35:45	35:45	1		1.1394	1.1400	1.136 - 1.1409
PCB-139/140		36:03	36:02	0		1.1490	1.1488	1.146 - 1.1515
PCB-131		36:15	36:14	0		1.1553	1.1555	1.154 - 1.1571
PCB-142		36:23	36:23	0		1.1599	1.1601	1.159 - 1.1621
PCB-132		36:42	36:43	1		1.1700	1.1706	1.168 - 1.1728
PCB-133		37:13	37:12	0		1.1863	1.1861	1.184 - 1.1872
PCB-165		37:37	37:36	0		0.8808	0.8811	0.880 - 0.8825
PCB-146		37:52	37:51	-1		0.8867	0.8870	0.886 - 0.8882
PCB-161		37:59	37:58	-1		0.8897	0.8900	0.889 - 0.8914
PCB-153/168		38:29	38:28	-1		0.9014	0.9018	0.900 - 0.9040
PCB-141		38:40	38:39	0		0.9054	0.9061	0.905 - 0.9075
PCB-130		39:04	39:04	0		0.9150	0.9156	0.915 - 0.9172
PCB-137		39:18	39:16	-1		0.9202	0.9205	0.920 - 0.9224
PCB-164		39:25	39:24	0		0.9230	0.9236	0.923 - 0.9252
PCB-129/138/160/163		39:44	39:42	-1		0.9304	0.9307	0.930 - 0.9349
PCB-158		40:06	40:05	-1		0.9393	0.9396	0.939 - 0.9409
PCB-128/166		40:57	40:56	-1		0.9590	0.9593	0.958 - 0.9617
PCB-159		41:58	41:56	-2		0.9828	0.9827	0.982 - 0.9839
PCB-162		42:15	42:13	-2		0.9895	0.9895	0.988 - 0.9907
PCB-167	T	42:43	42:41	-2		1.0006	1.0006	0.999 - 1.0016
PCB-156/157	T	43:53	43:52	-1		1.0006	1.0009	0.999 - 1.0025
PCB-169	T/L	47:06	47:05	-1		1.0006	1.0006	0.999 - 1.0015
PCB-188L		37:06	37:05	0	15	0.8198	0.8201	0.817 - 0.8243
PCB-178L		40:09	40:08	-1		0.8875	0.8875	0.884 - 0.8916
PCB-180L		45:15	45:13	-2		1.0000	1.0000	0.996 - 1.0037
PCB-170L		46:30	46:28	-1	15	1.0276	1.0279	1.024 - 1.0317

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-189L		49:37	49:34	-2	15	1.0965	1.0965	1.093 - 1.1000
PCB-188	L	37:07	37:06	0		1.0007	1.0007	1.000 - 1.0022
PCB-179		37:27	37:27	0		1.0096	1.0099	1.009 - 1.0115
PCB-184		37:59	37:58	-1		1.0241	1.0237	1.023 - 1.0254
PCB-176		38:20	38:20	0		1.0333	1.0337	1.033 - 1.0351
PCB-186		38:48	38:47	0		1.0457	1.0461	1.045 - 1.0476
PCB-178		40:10	40:09	-1		1.0830	1.0829	1.081 - 1.0837
PCB-175		40:48	40:47	-1		1.1000	1.0999	1.098 - 1.1008
PCB-187		41:05	41:03	-1		1.1074	1.1070	1.106 - 1.1082
PCB-182		41:17	41:15	-1		1.1127	1.1123	1.111 - 1.1137
PCB-183/185		41:42	41:39	-2		1.1241	*1.1233	1.123 - 1.1260
PCB-174		41:56	41:55	-1		1.1305	1.1304	1.129 - 1.1313
PCB-177		42:22	42:21	-1		1.1422	1.1421	1.140 - 1.1430
PCB-181		42:45	42:44	-1		1.1524	1.1524	1.151 - 1.1535
PCB-171/173		42:58	42:57	-1		1.1585	1.1584	1.156 - 1.1602
PCB-172		44:37	44:35	-2		0.8993	0.8993	0.899 - 0.9008
PCB-192		44:54	44:51	-2		0.9049	0.9049	0.904 - 0.9060
PCB-180/193		45:14	45:12	-2		0.9117	0.9118	0.911 - 0.9130
PCB-191		45:37	45:35	-2		0.9194	0.9194	0.919 - 0.9209
PCB-170		46:31	46:29	-2		0.9377	0.9377	0.937 - 0.9392
PCB-190		47:02	47:00	-2		0.9481	0.9481	0.948 - 0.9496
PCB-189	T/L	49:38	49:35	-2		1.0003	1.0003	0.999 - 1.0013
PCB-202L		42:28	42:26	-1	15	0.8211	0.8213	0.819 - 0.8249
PCB-194L		51:43	51:40	-2		1.0000	1.0000	0.996 - 1.0040
PCB-205L		52:11	52:09	-2	15	1.0092	1.0092	1.004 - 1.0138
PCB-202	L	42:29	42:27	-2		1.0006	1.0003	0.999 - 1.0027
PCB-201		43:24	43:22	-2		1.0223	1.0220	1.020 - 1.0237
PCB-204		44:05	44:03	-2		1.0381	1.0378	1.036 - 1.0388
PCB-197		44:19	44:16	-2		1.0437	1.0430	1.042 - 1.0445
PCB-200		44:25	44:24	-1		1.0462	1.0461	1.045 - 1.0473
PCB-198/199		47:12	47:09	-2		1.1115	1.1112	1.109 - 1.1132
PCB-196		47:53	47:50	-2		0.9175	0.9175	0.917 - 0.9189
PCB-203		48:05	48:01	-3		0.9212	0.9210	0.921 - 0.9226
PCB-195		49:24	49:21	-2		0.9465	0.9465	0.946 - 0.9481
PCB-194		51:44	51:42	-2		0.9914	0.9914	0.991 - 0.9926
PCB-205	L	52:13	52:10	-2		1.0005	1.0005	0.999 - 1.0013
PCB-208L		49:08	49:06	-2	15	0.9503	0.9503	0.947 - 0.9534
PCB-206L		53:56	53:54	-2	15	1.0431	1.0431	1.038 - 1.0472
PCB-208	L	49:10	49:08	-2		1.0005	1.0005	0.999 - 1.0013
PCB-207		50:05	50:03	-2		1.0193	1.0193	1.019 - 1.0205
PCB-206	L	53:58	53:55	-2		1.0005	1.0005	1.000 - 1.0015
PCB-209L		55:35	55:31	-3	15	1.0748	1.0745	1.069 - 1.0784
DCB Decachlorobiphenyl	L	55:35	55:33	-2		1.0002	1.0005	0.999 - 1.0012

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

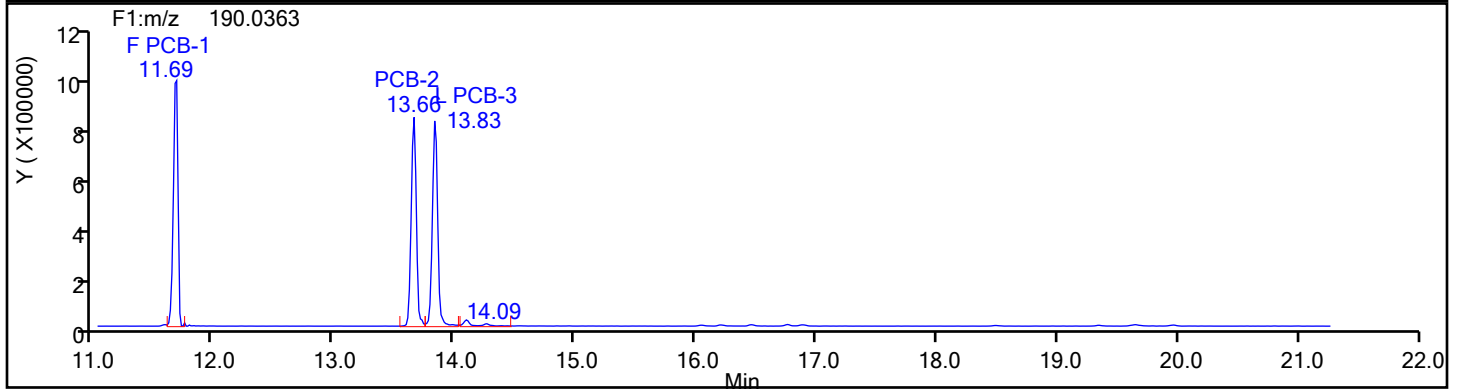
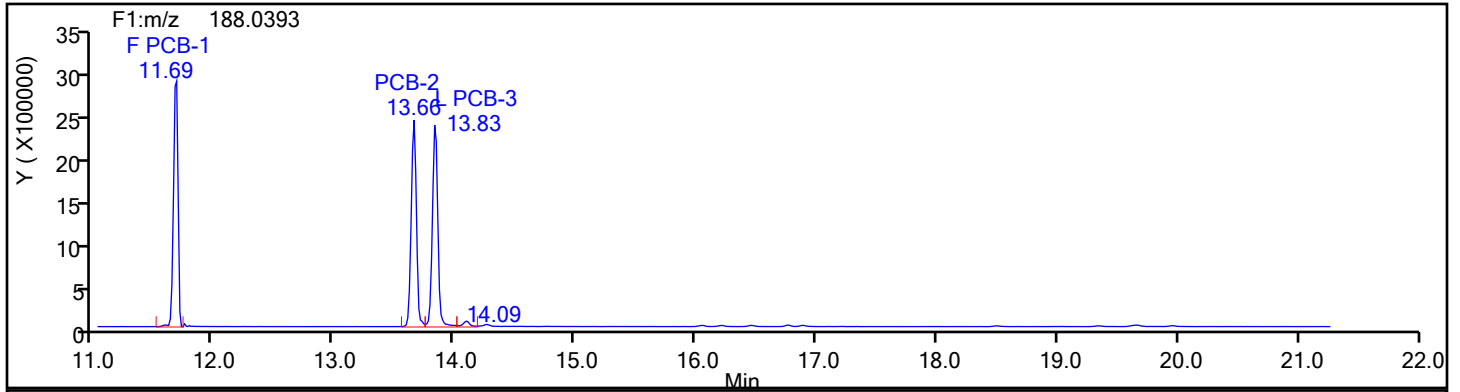
Worklist#: 88242

Sample Line#: 1

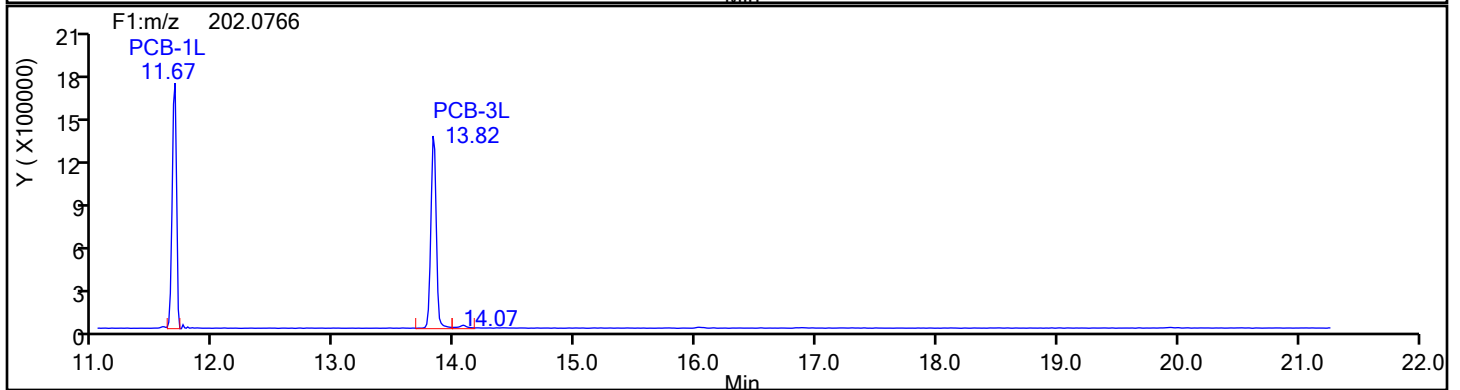
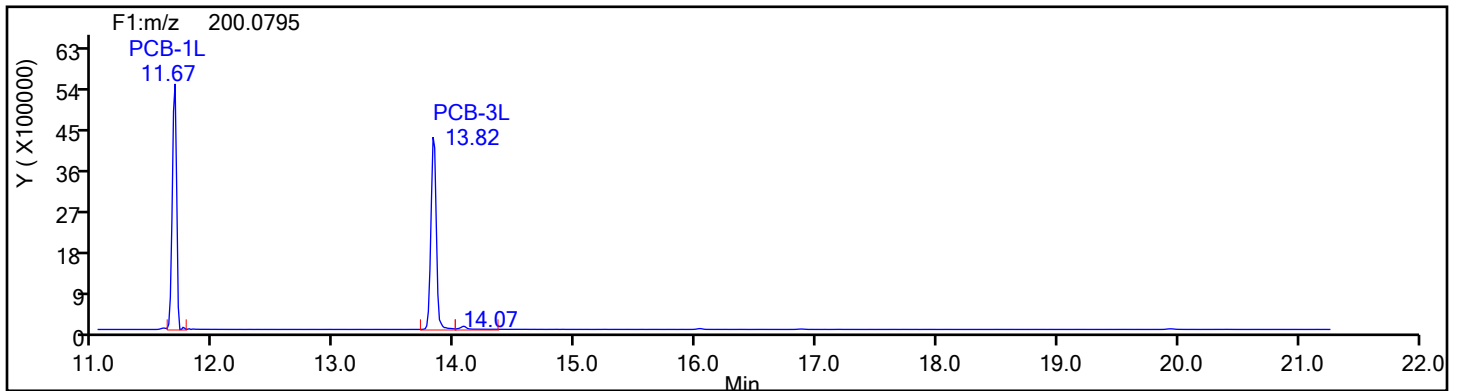
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

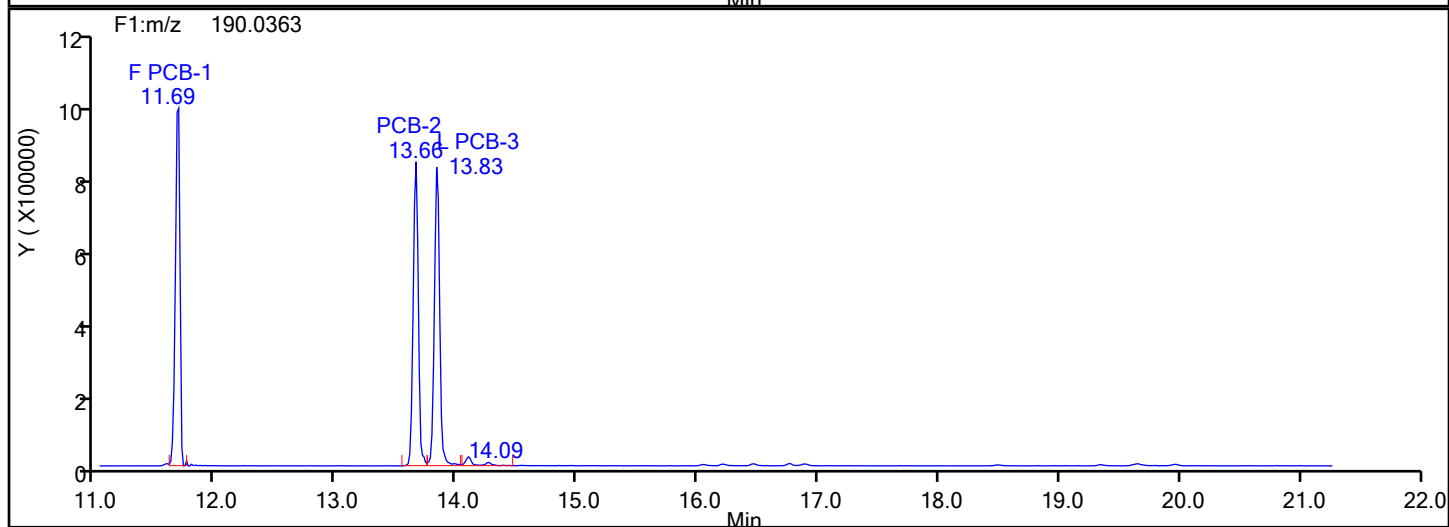
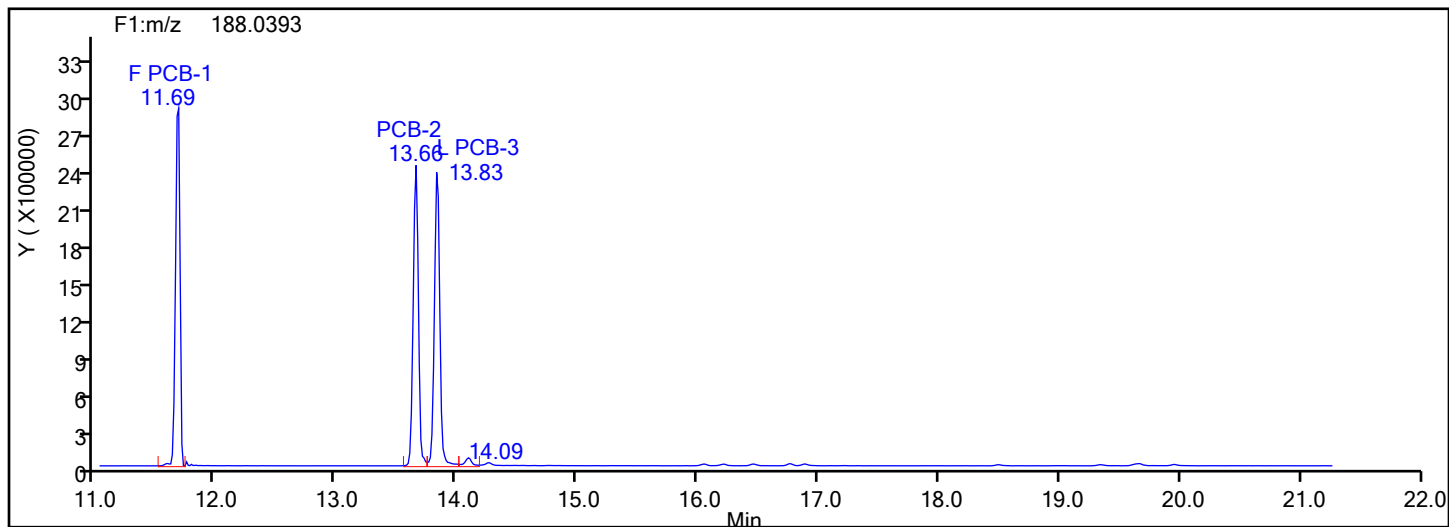
Worklist#: 88242

Sample Line#: 1

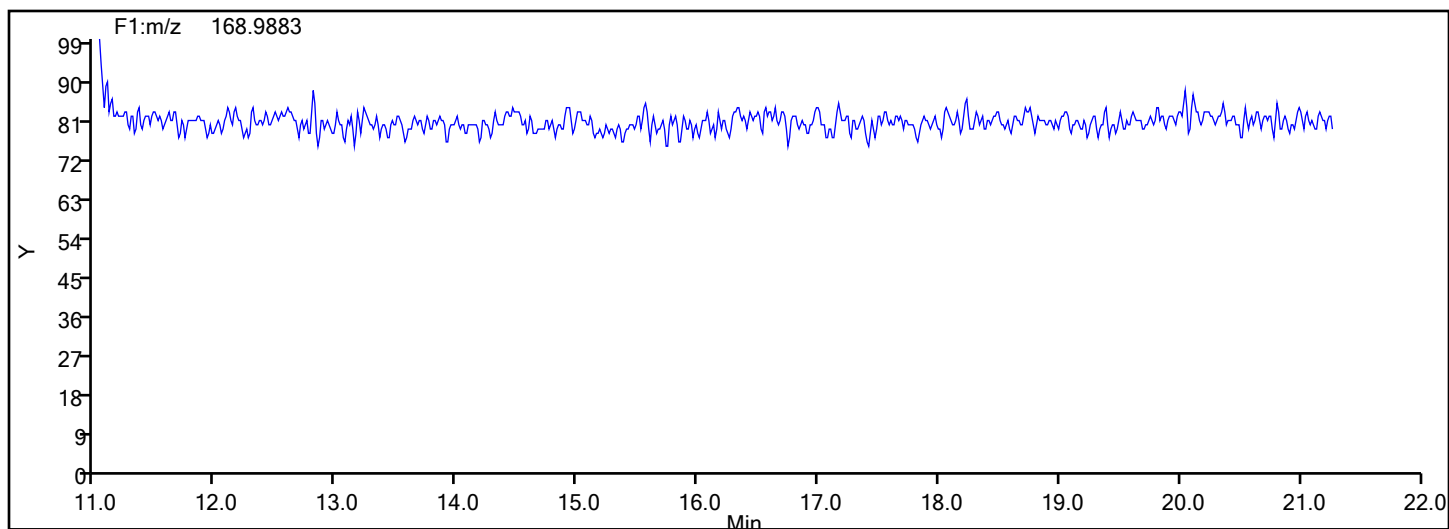
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

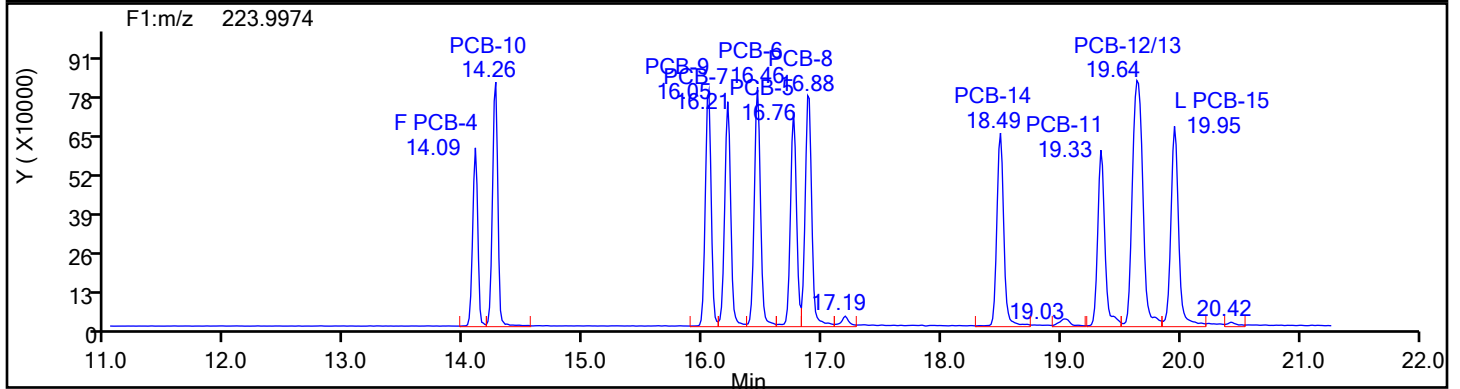
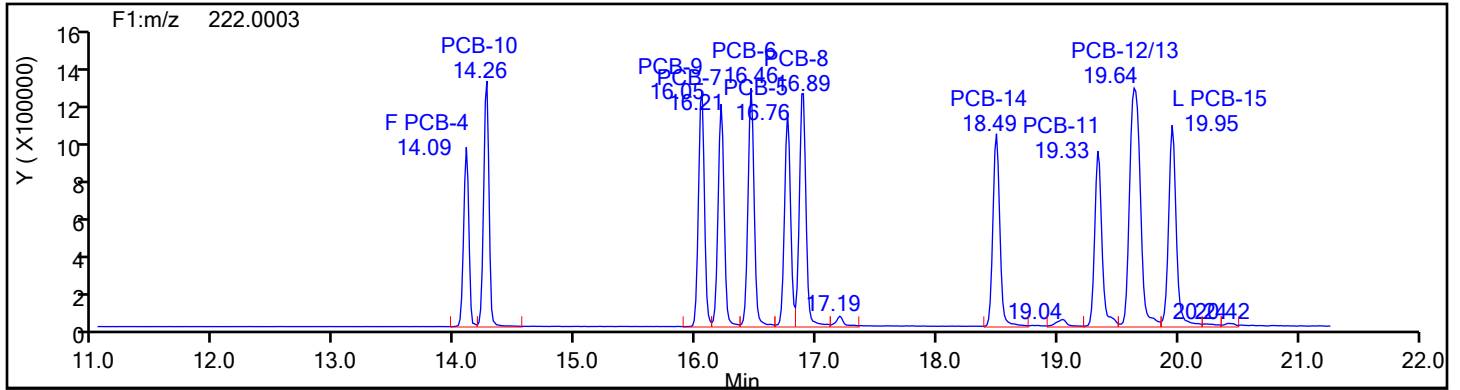
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Sample Line#: 1

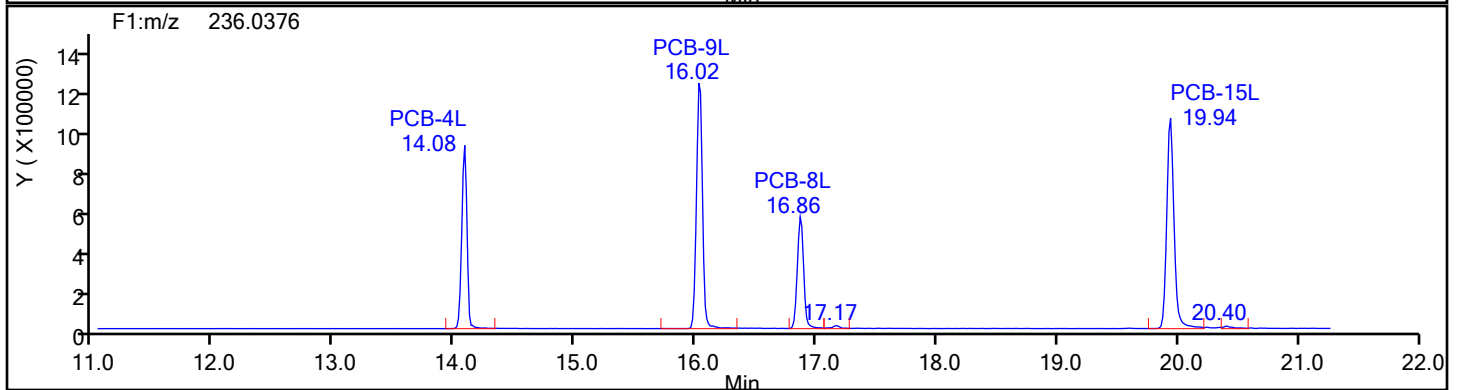
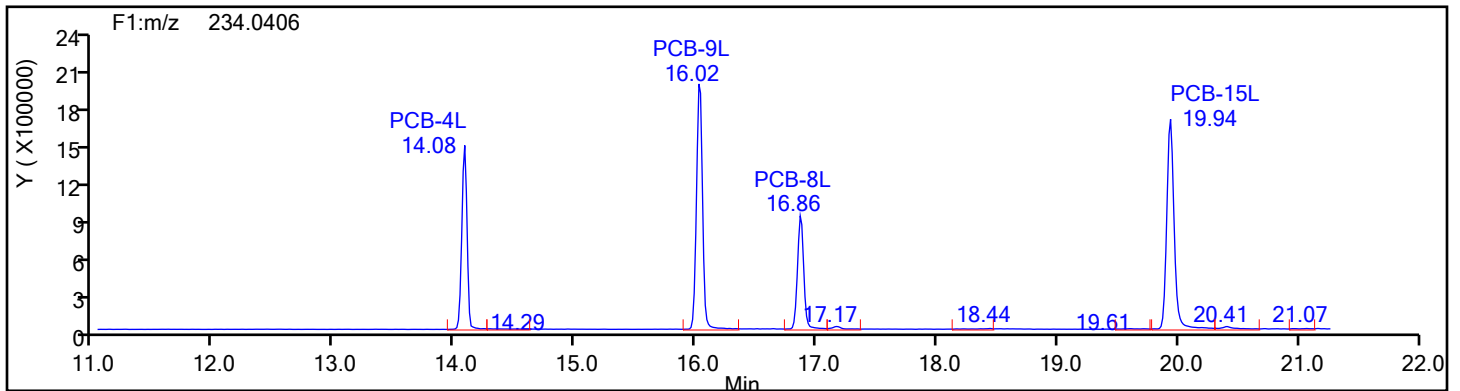
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

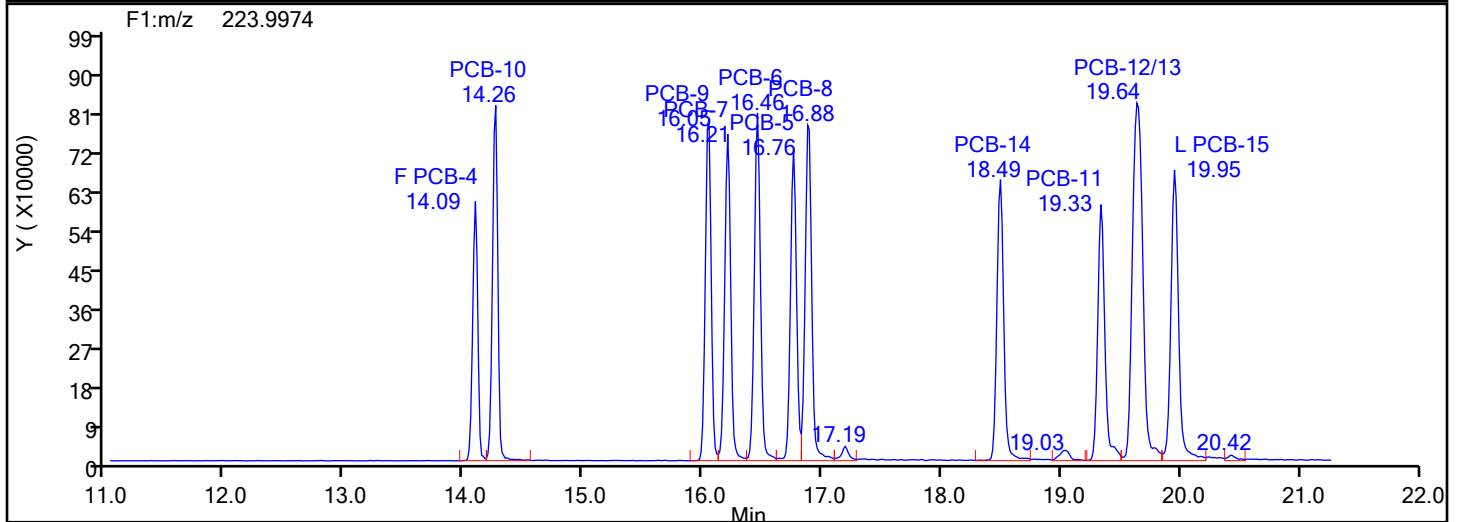
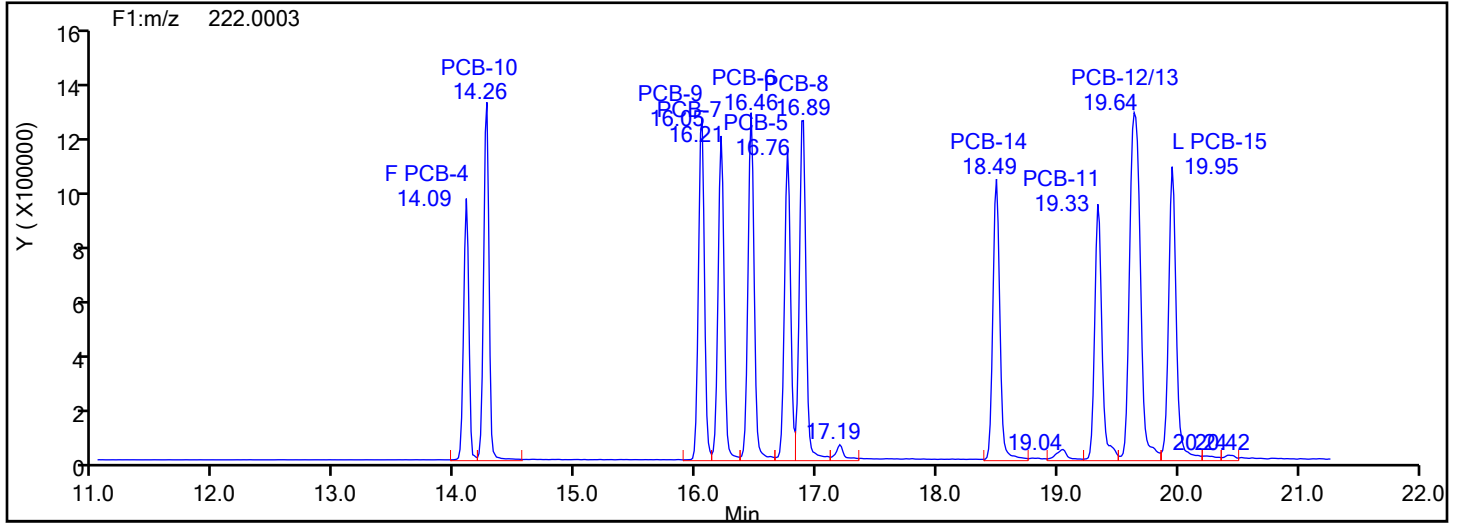
Worklist#: 88242

Sample Line#: 1

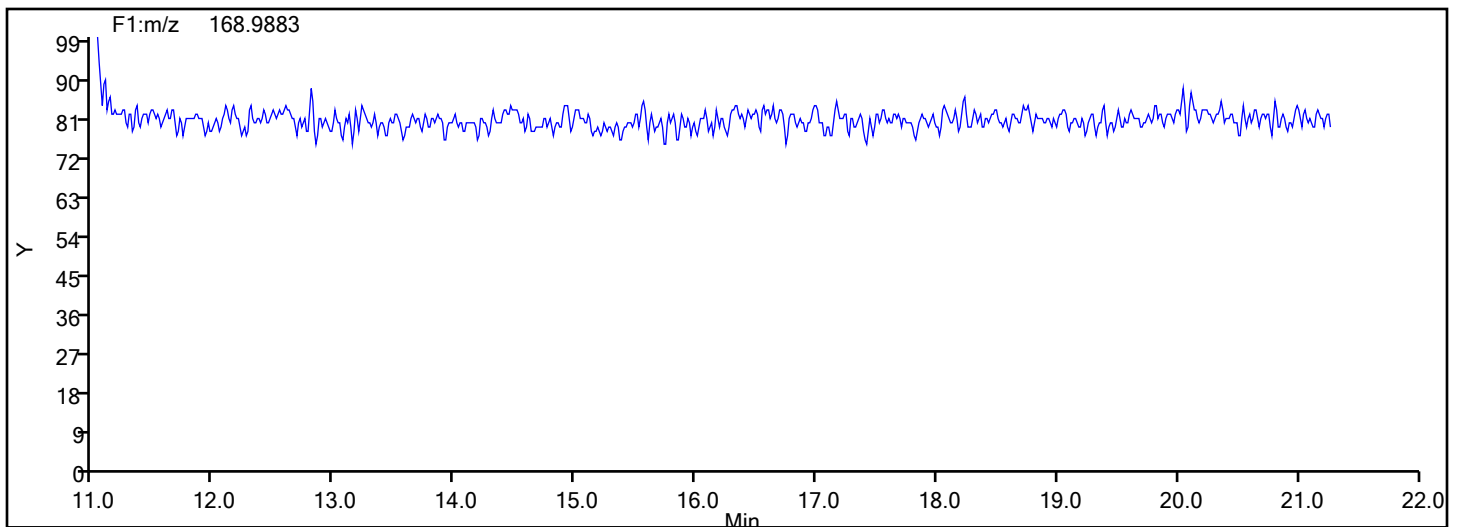
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

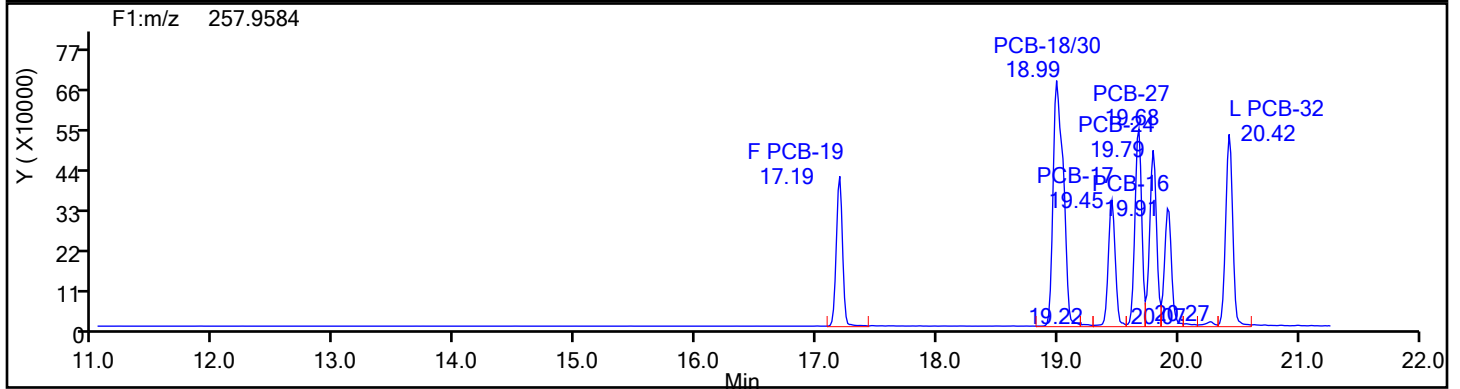
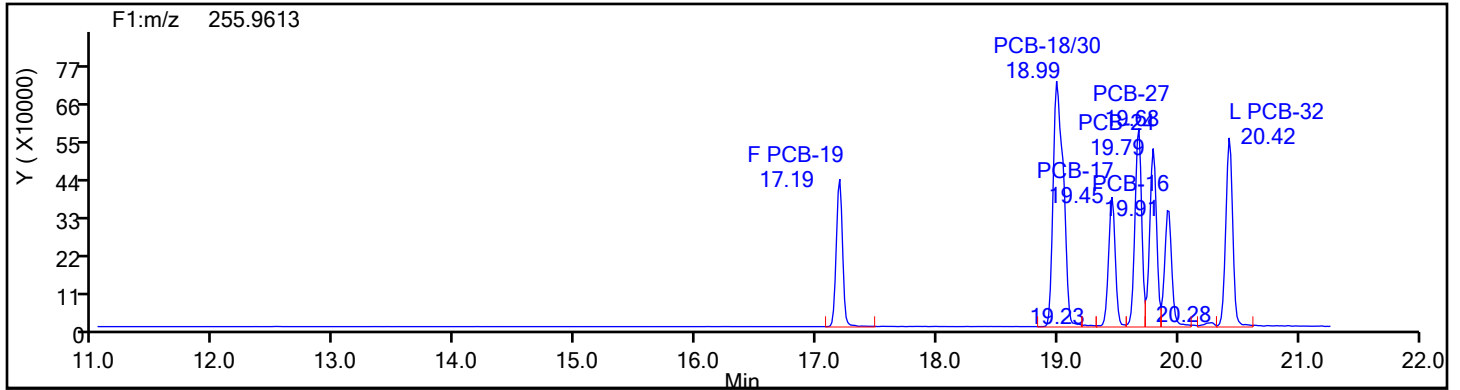
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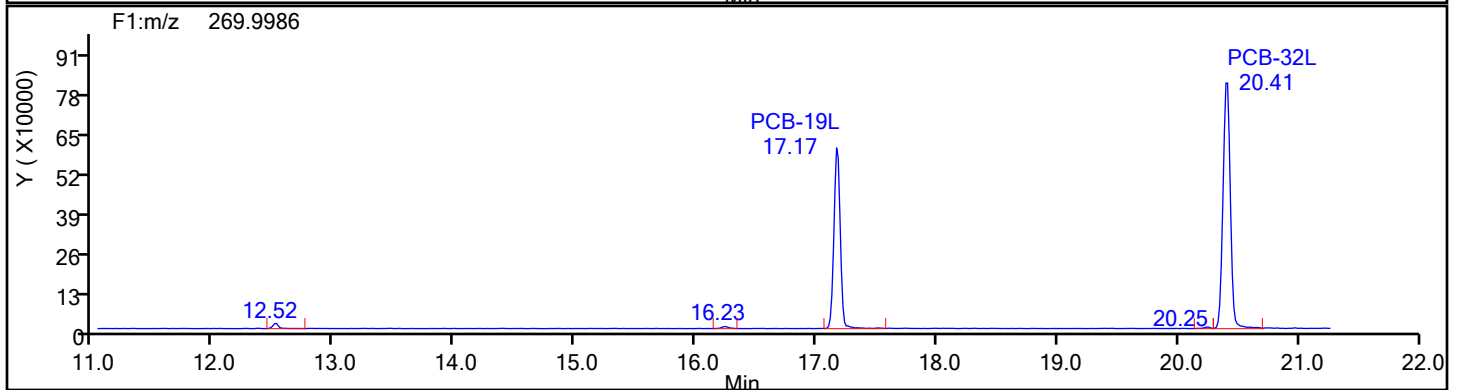
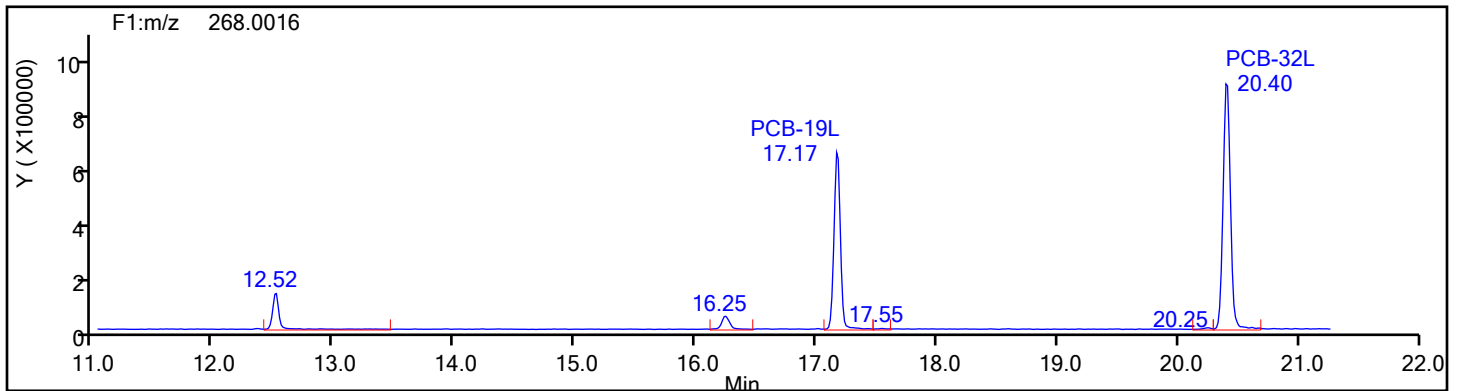
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

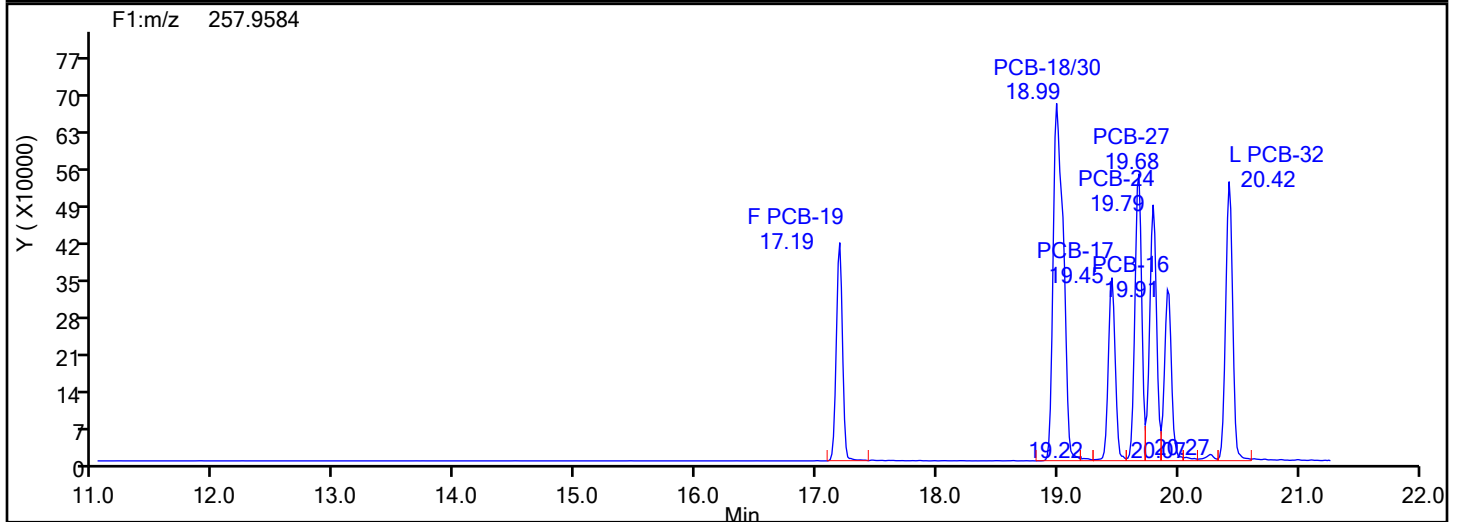
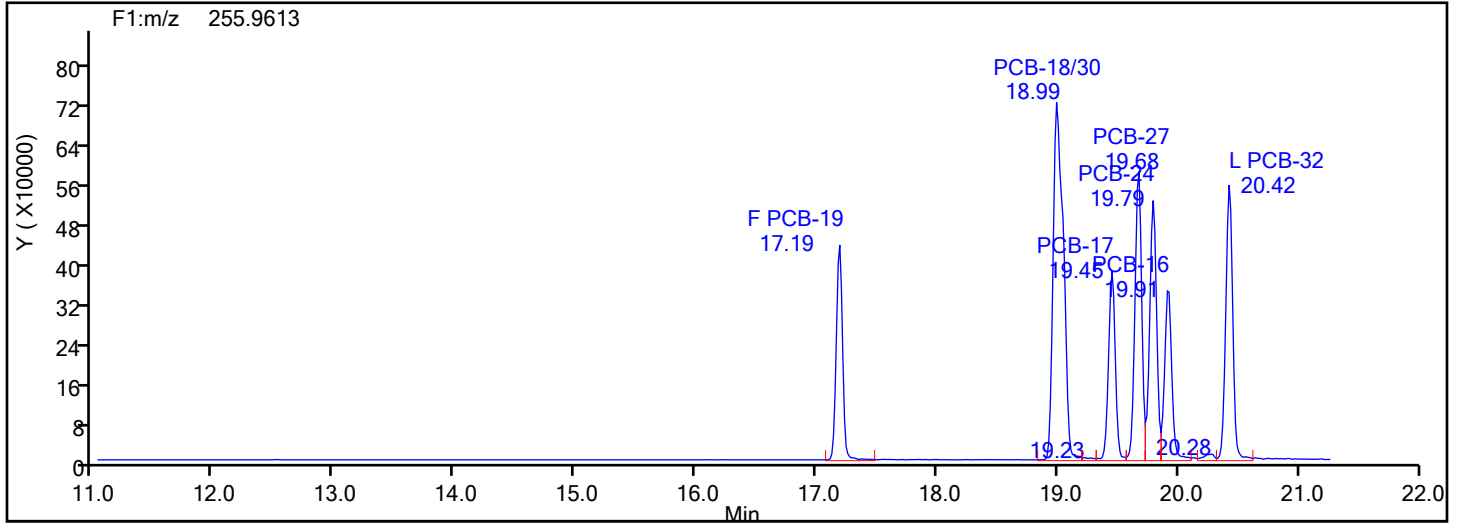
Worklist#: 88242

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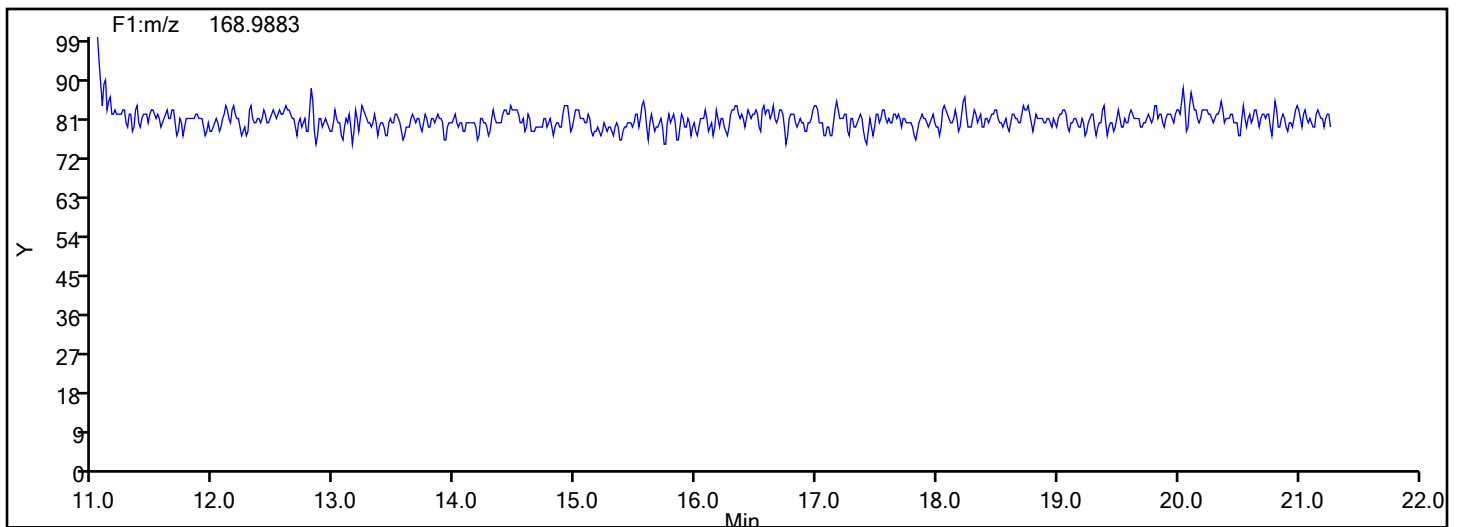
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\ld2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

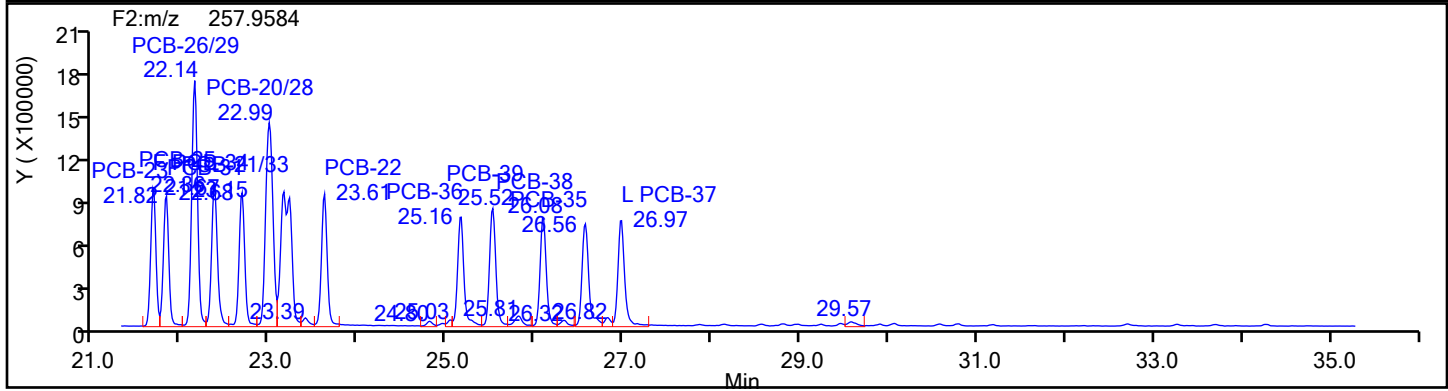
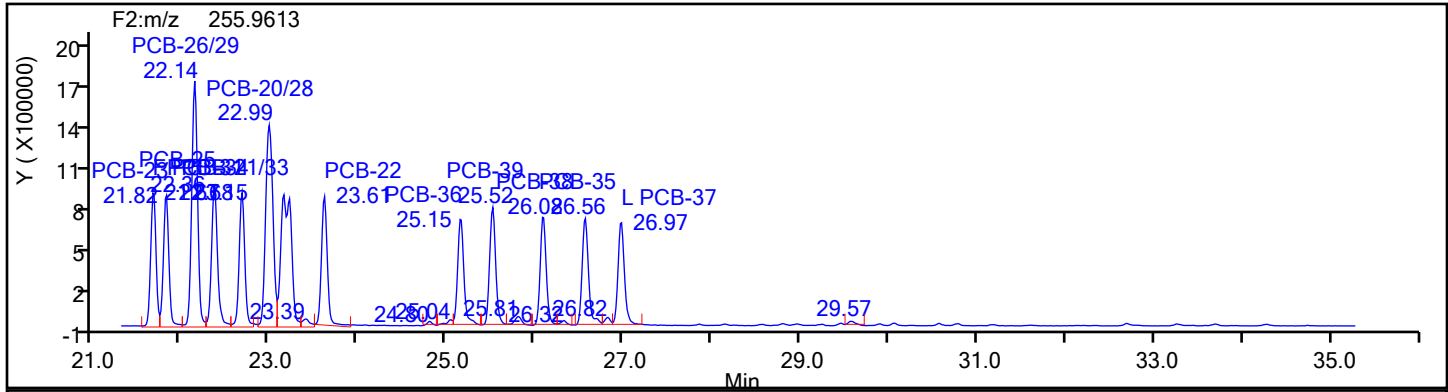
Worklist#: 88242

Sample Line#: 1

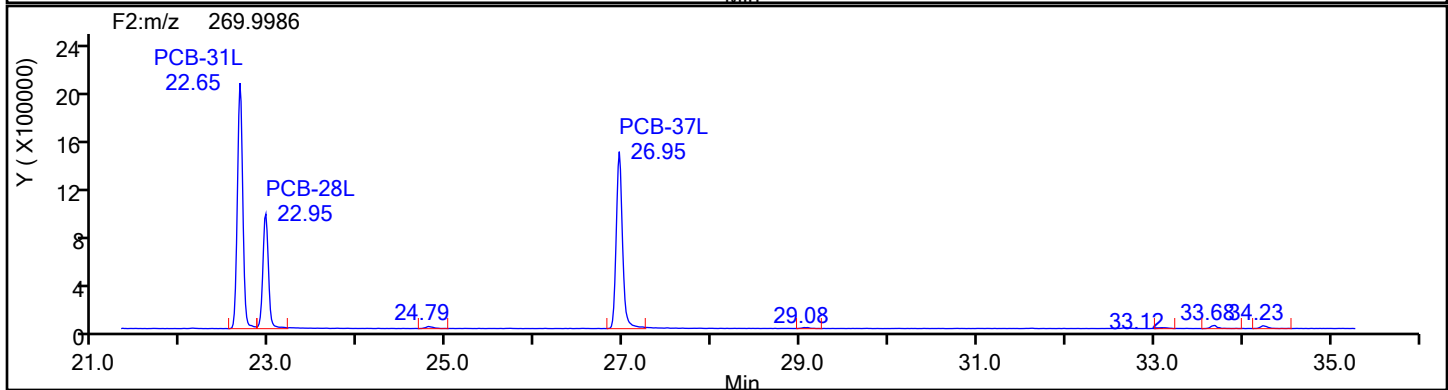
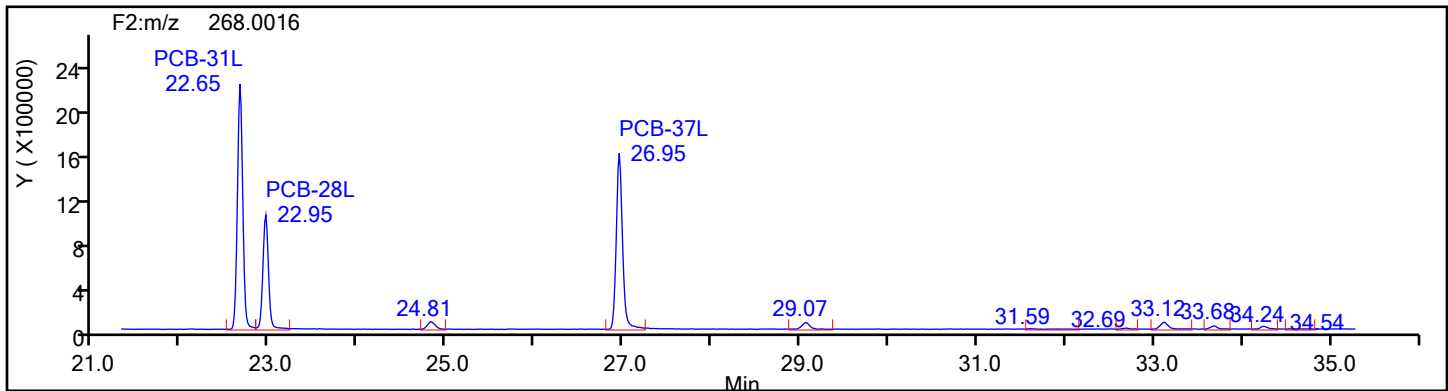
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

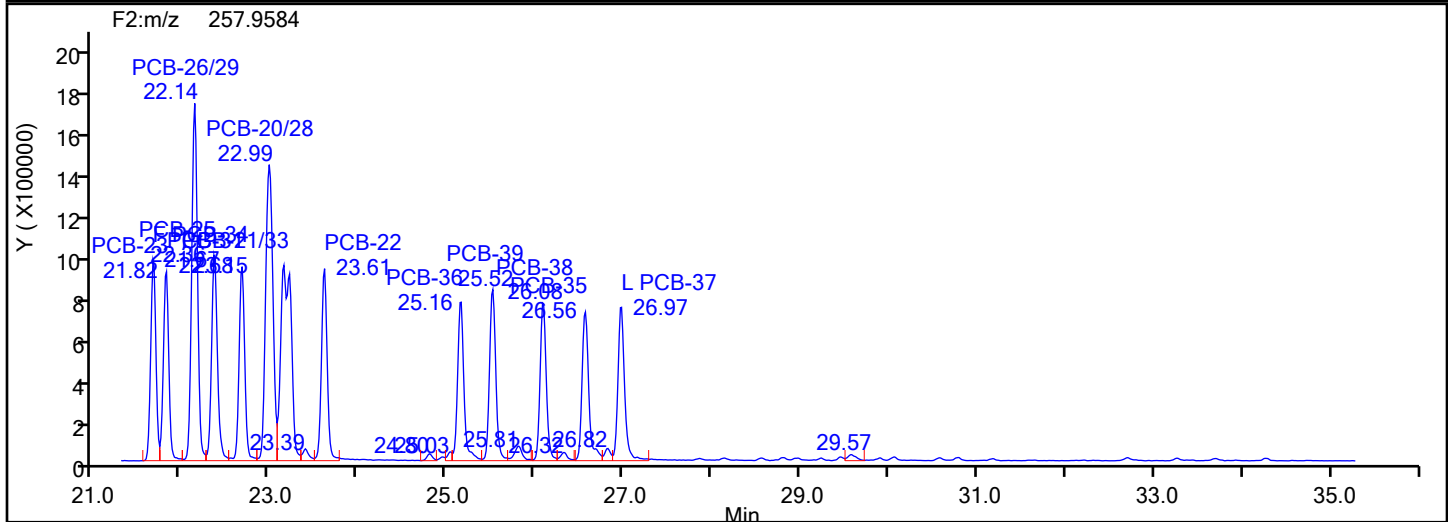
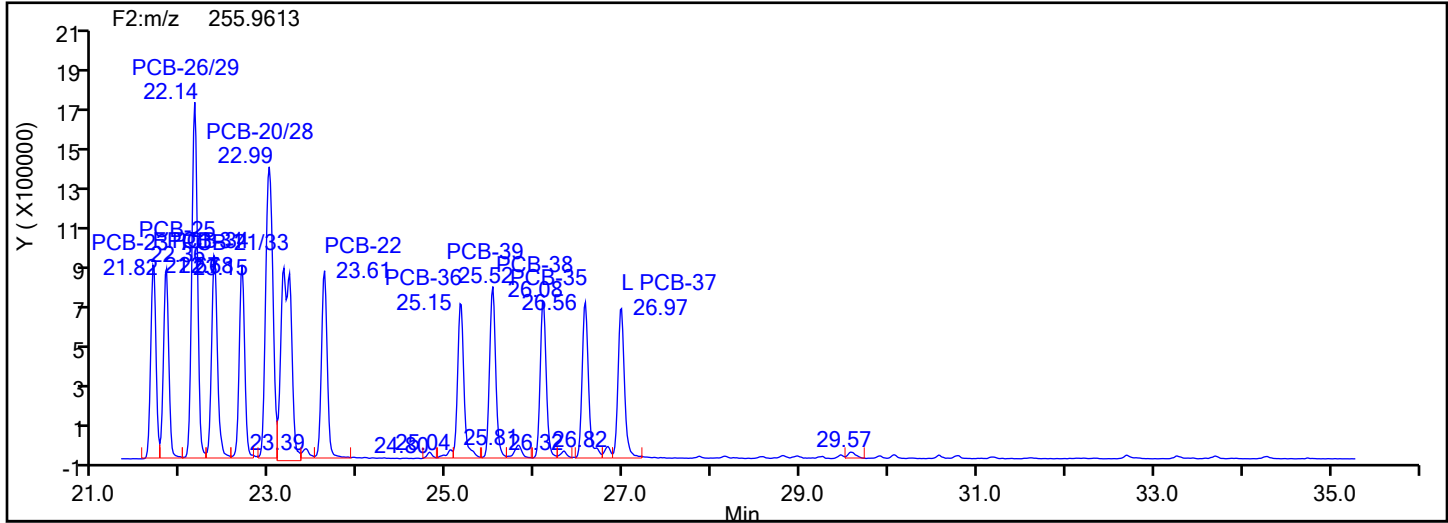
Worklist#: 88242

Sample Line#: 1

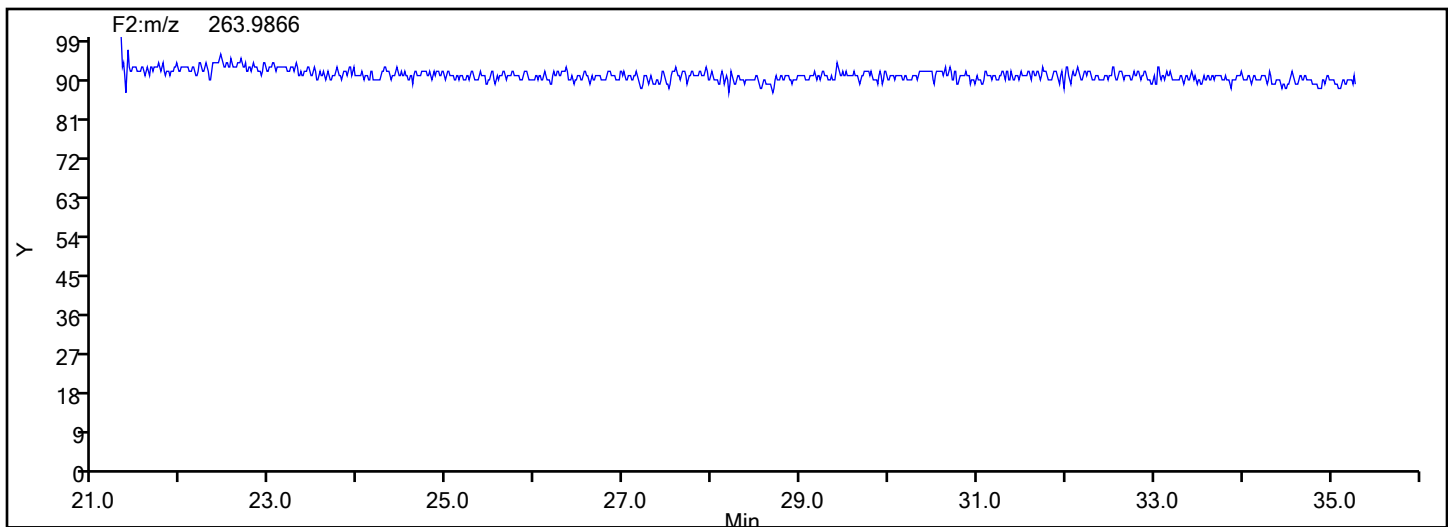
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

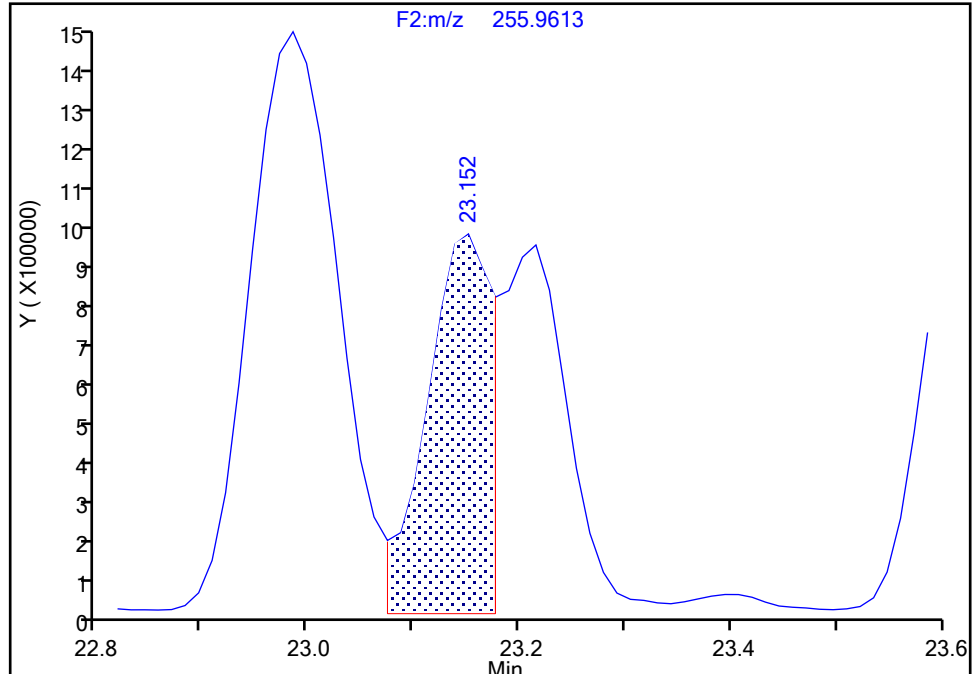
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

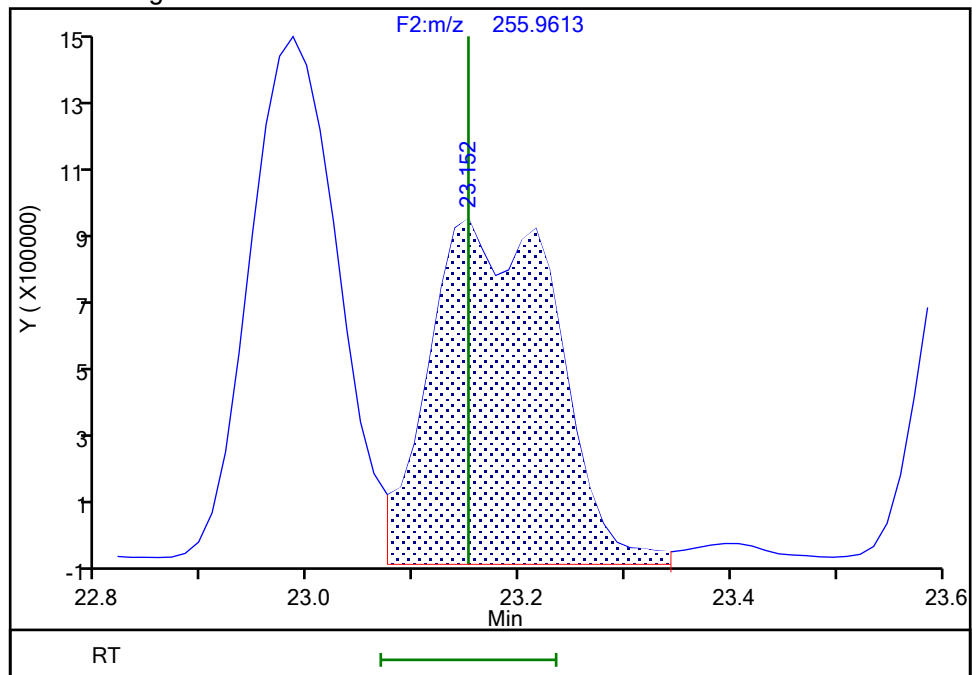
RT: 23.15  
Area: 3726703  
Amount: 46.789223  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.15  
Area: 7684054  
Amount: 95.310713  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:31:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

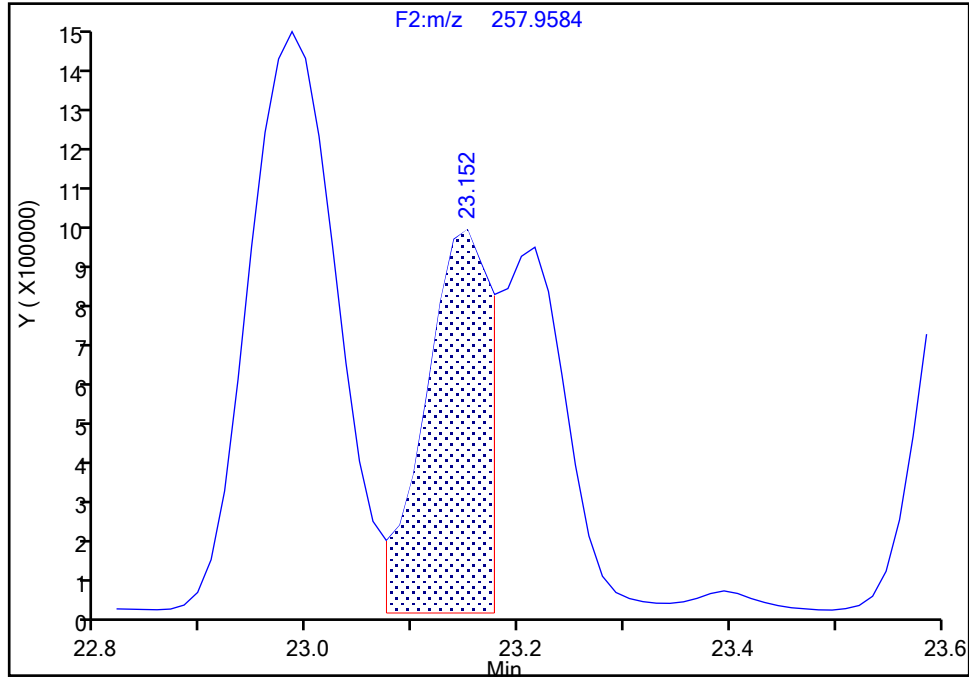
F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

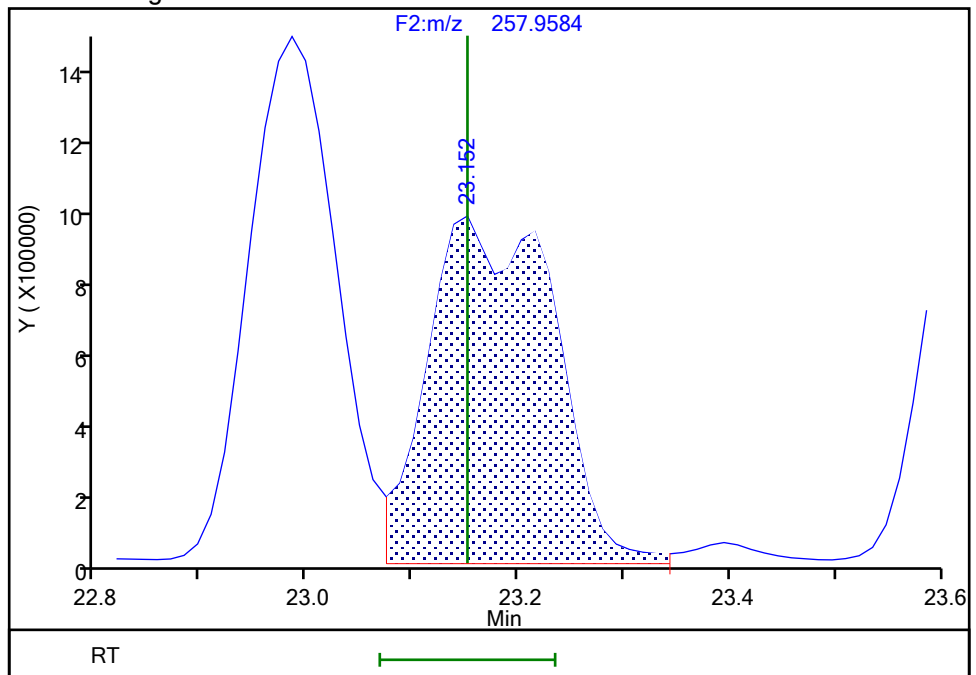
RT: 23.15  
Area: 3823811  
Amount: 46.789223  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.15  
Area: 7696515  
Amount: 95.310713  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:31:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 2982 of 3373

BASFHWC-F-2024-106  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

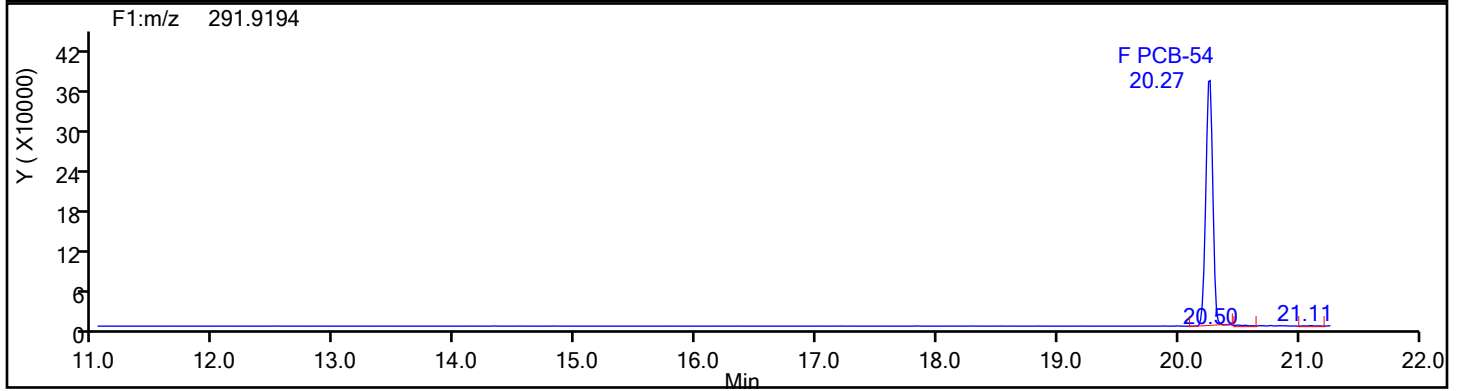
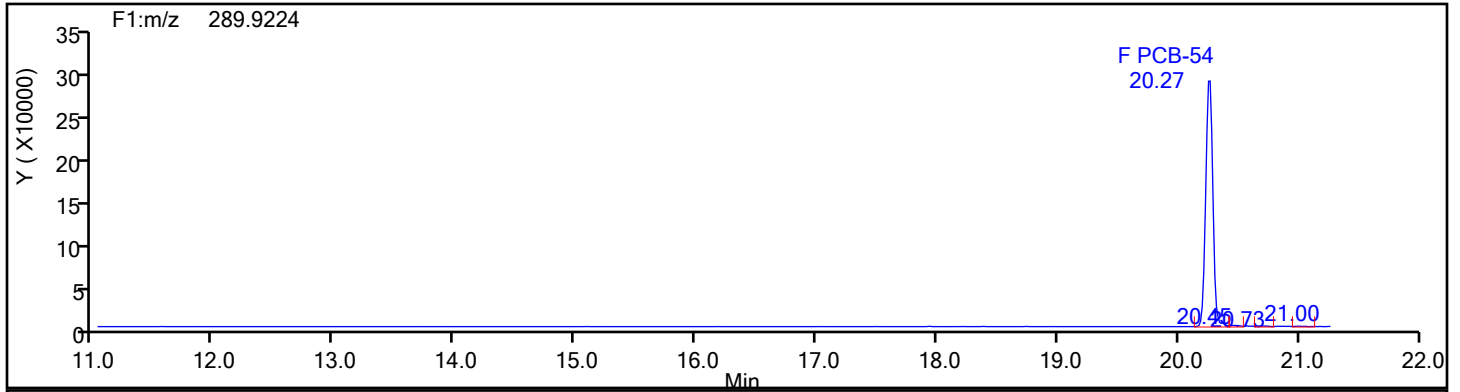
Worklist#: 88242

Sample Line#: 1

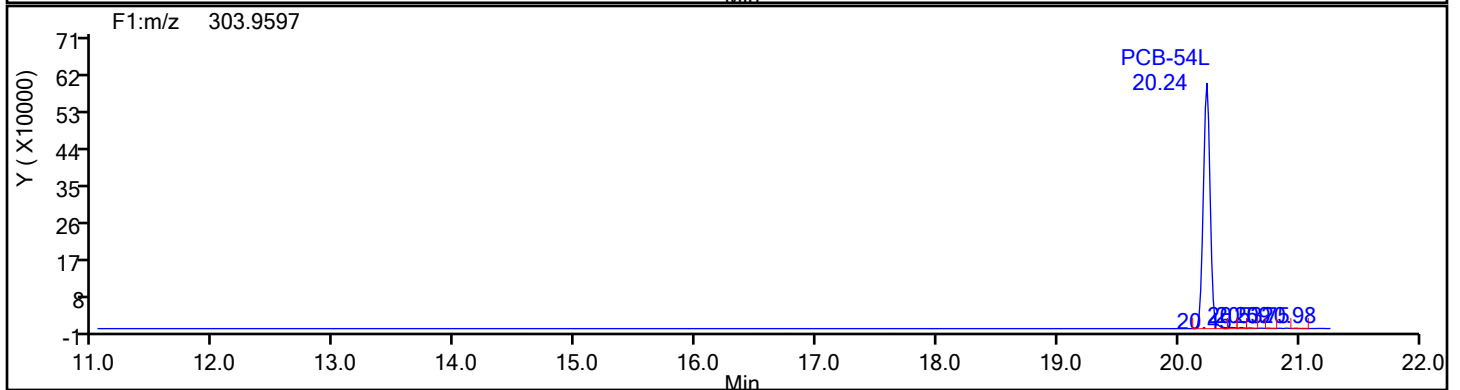
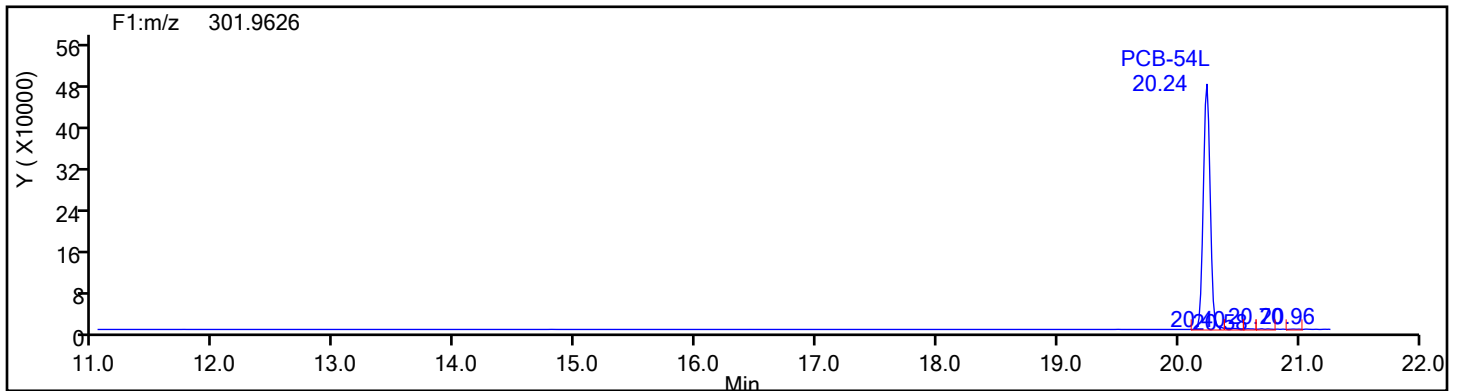
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

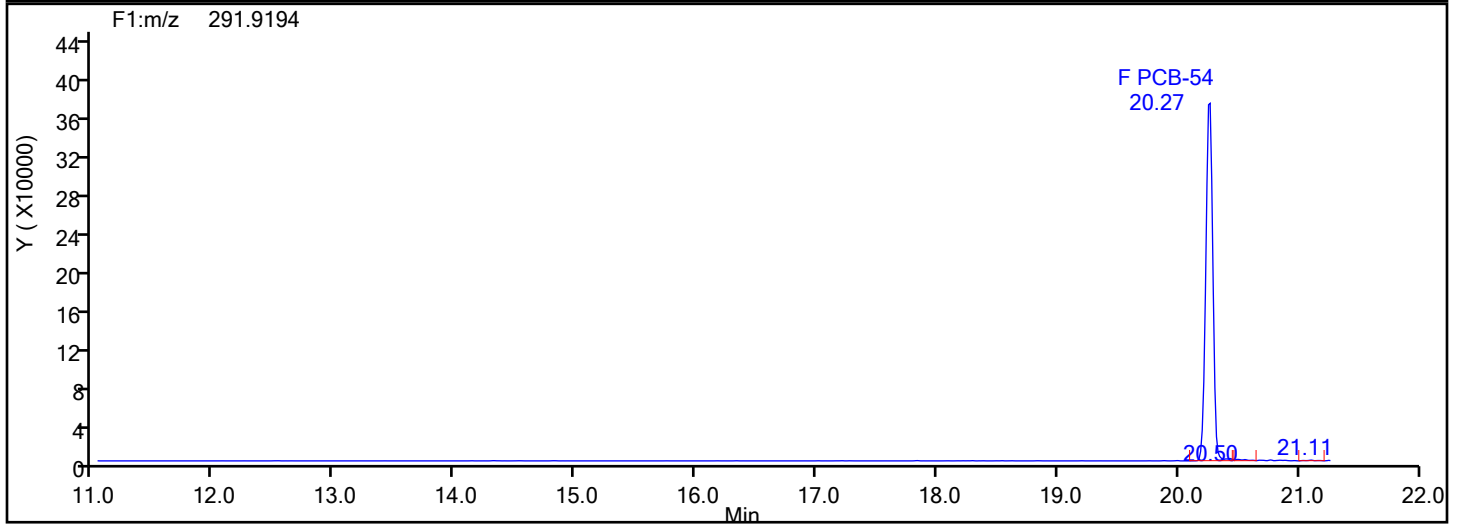
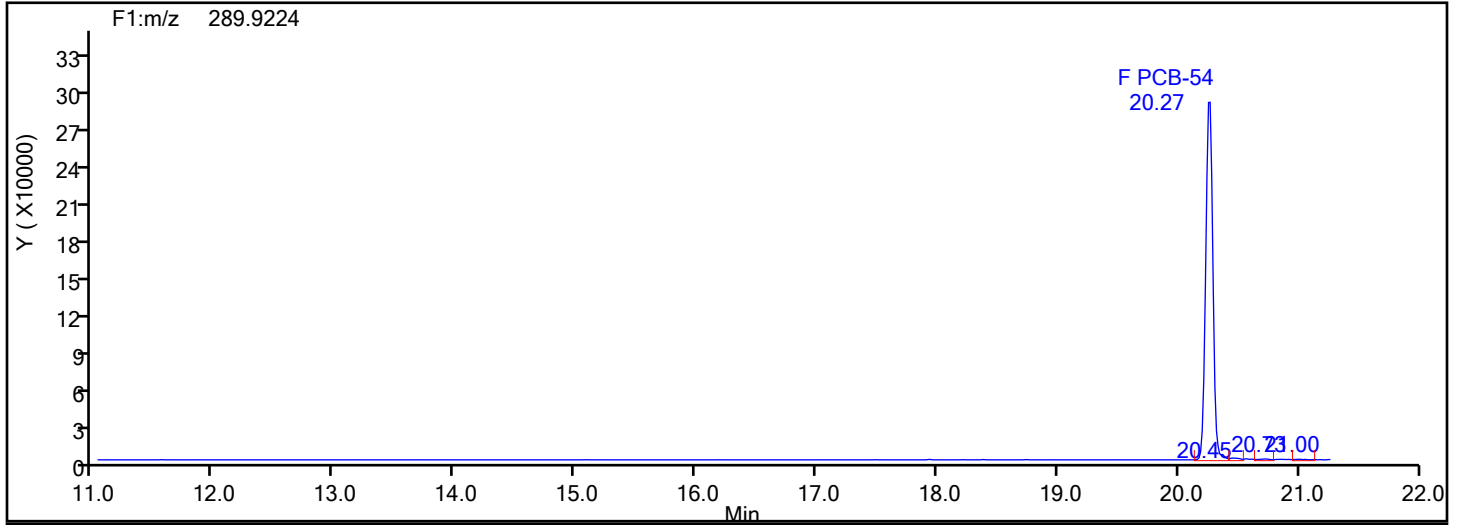


TePCB F1 Standards

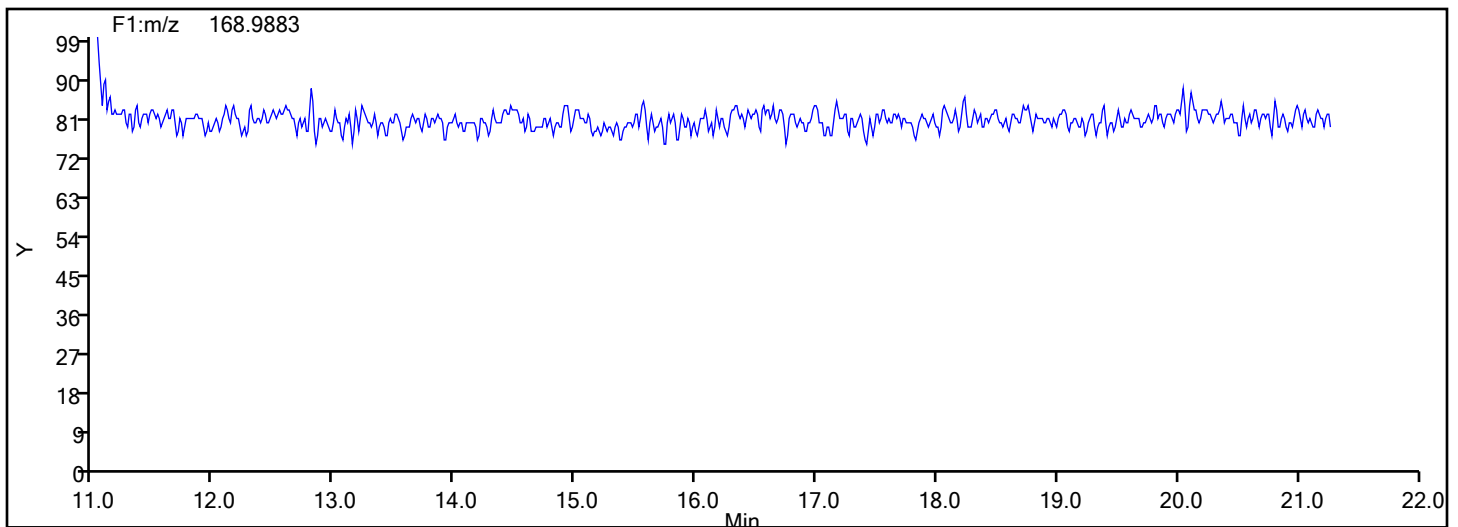


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88242 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1



## TePCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

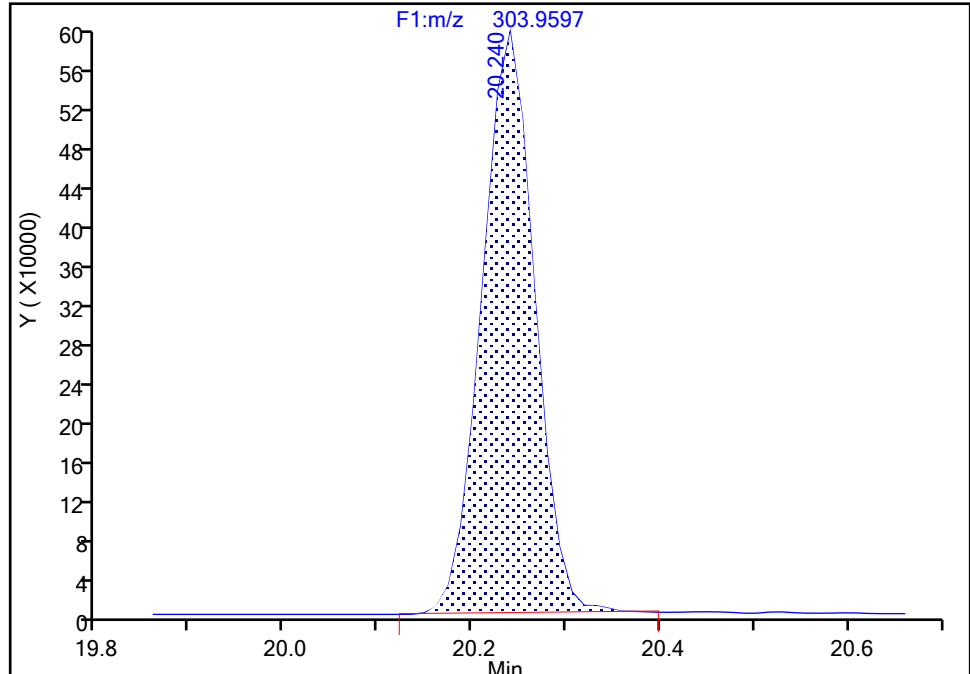
Detector F1(11.07 :21.70 )

**PCB-54L, CAS: 234432-88-3**

Signal: 2

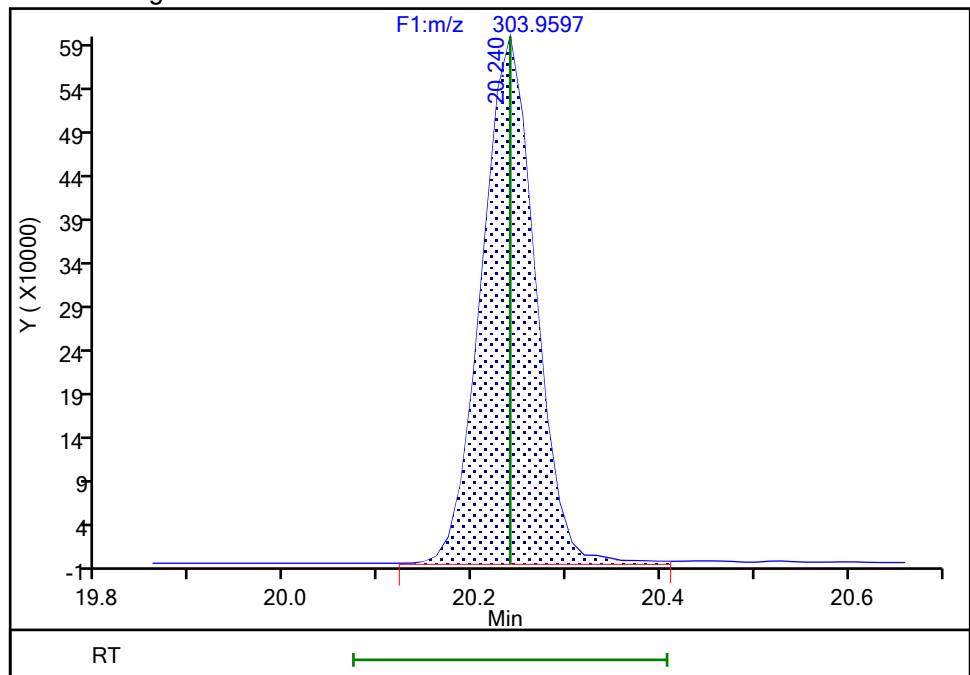
RT: 20.24  
Area: 2324763  
Amount: 104.6709  
Amount Units: pg/ul

## Processing Integration Results



RT: 20.24  
Area: 2344721  
Amount: 105.8038  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:31:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

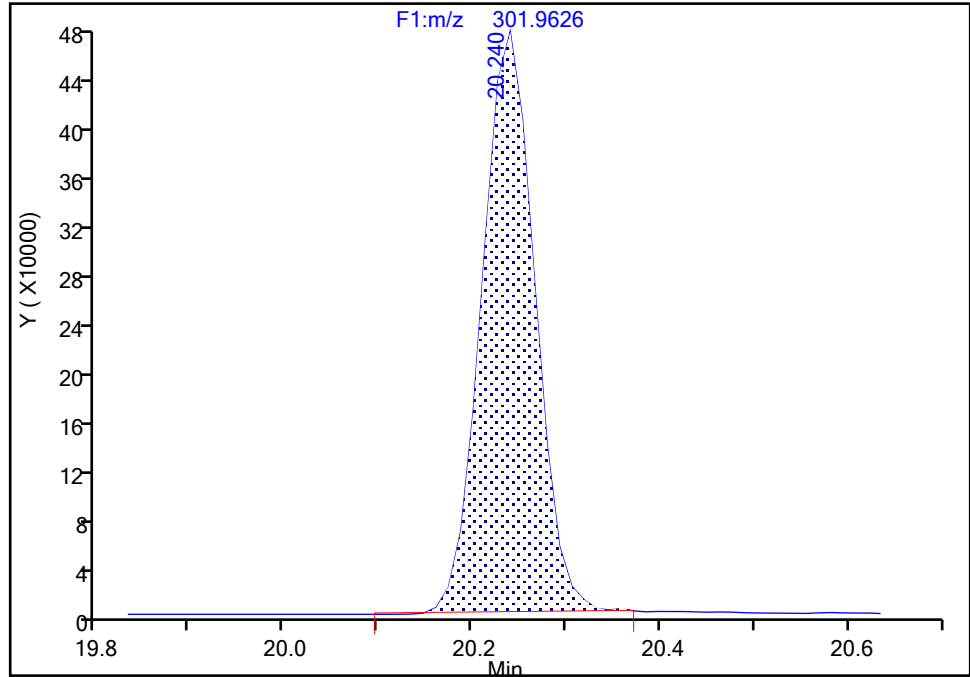
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F1(11.07 :21.70 )

**PCB-54L, CAS: 234432-88-3**

Signal: 1

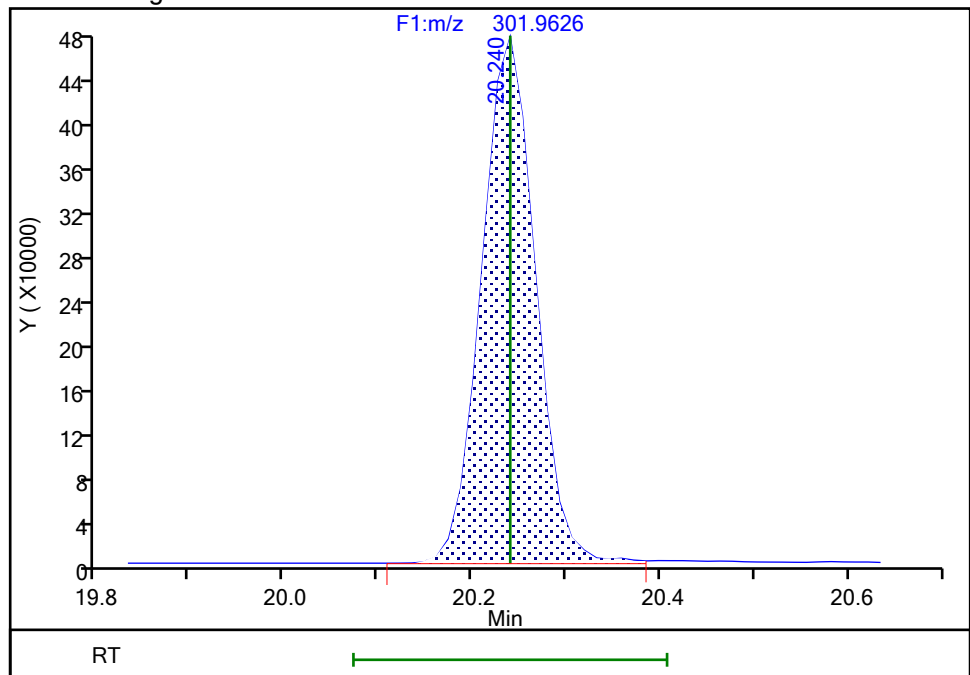
RT: 20.24  
Area: 1872064  
Amount: 104.6709  
Amount Units: pg/ul

## Processing Integration Results



RT: 20.24  
Area: 1897528  
Amount: 105.8038  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:31:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-1110  
9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

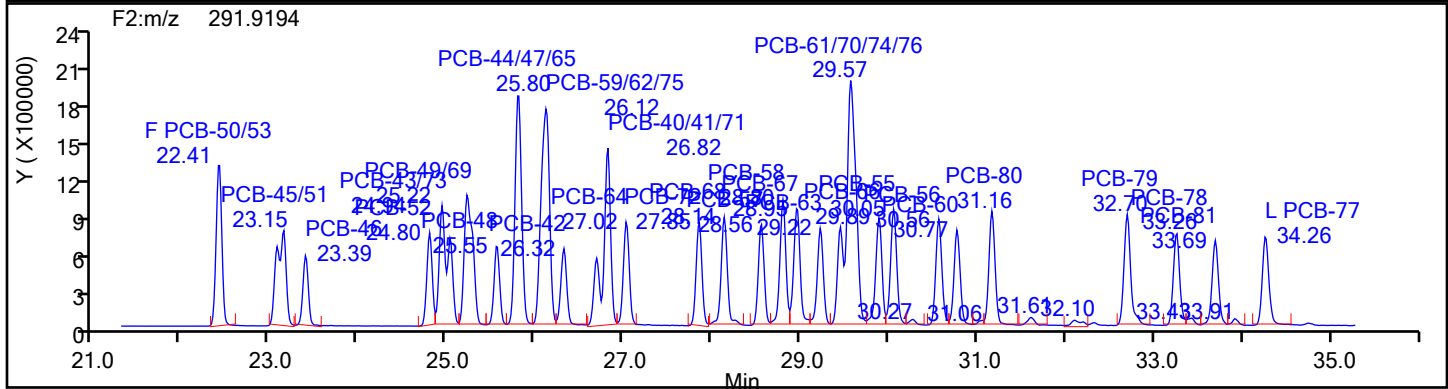
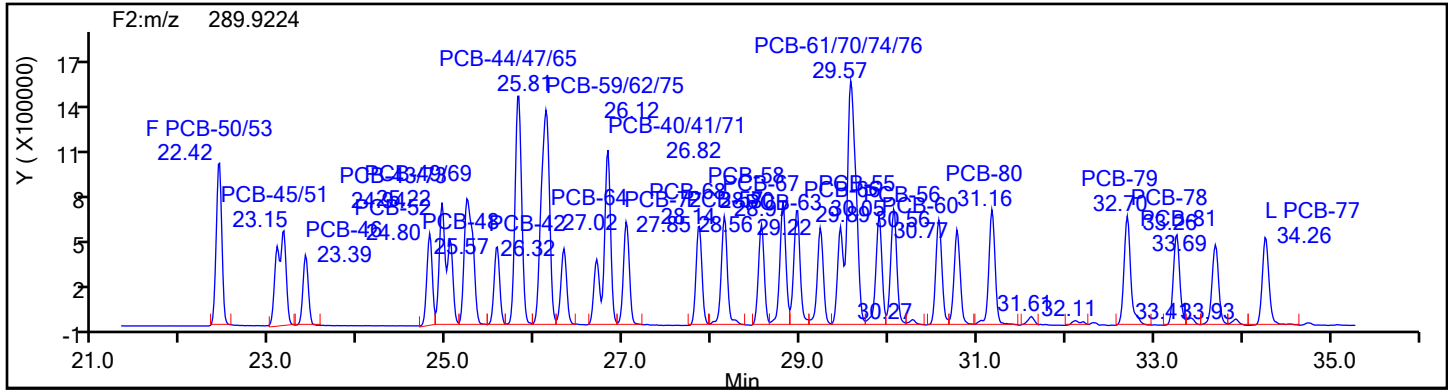
Worklist#: 88242

Sample Line#: 1

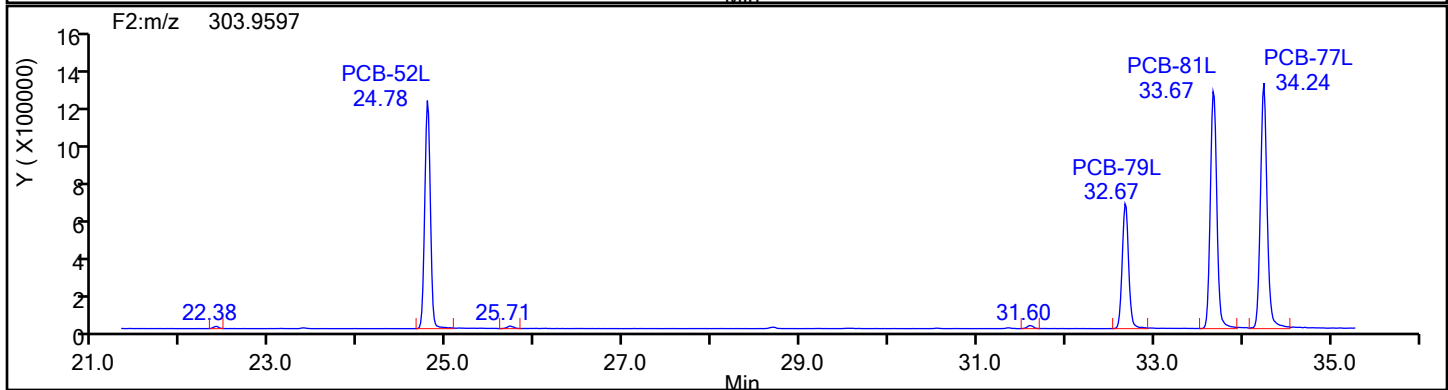
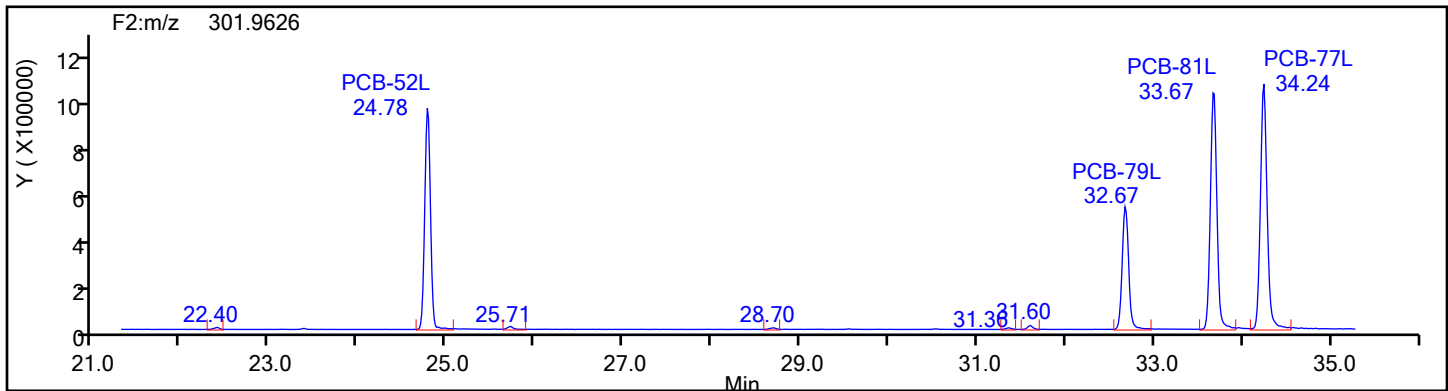
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

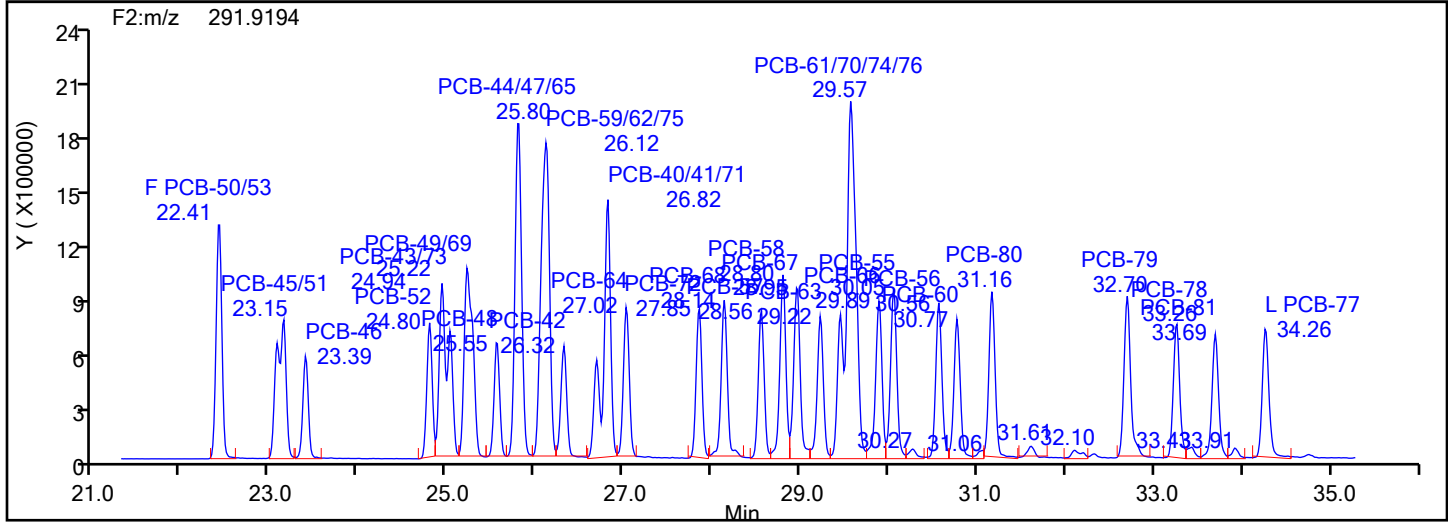
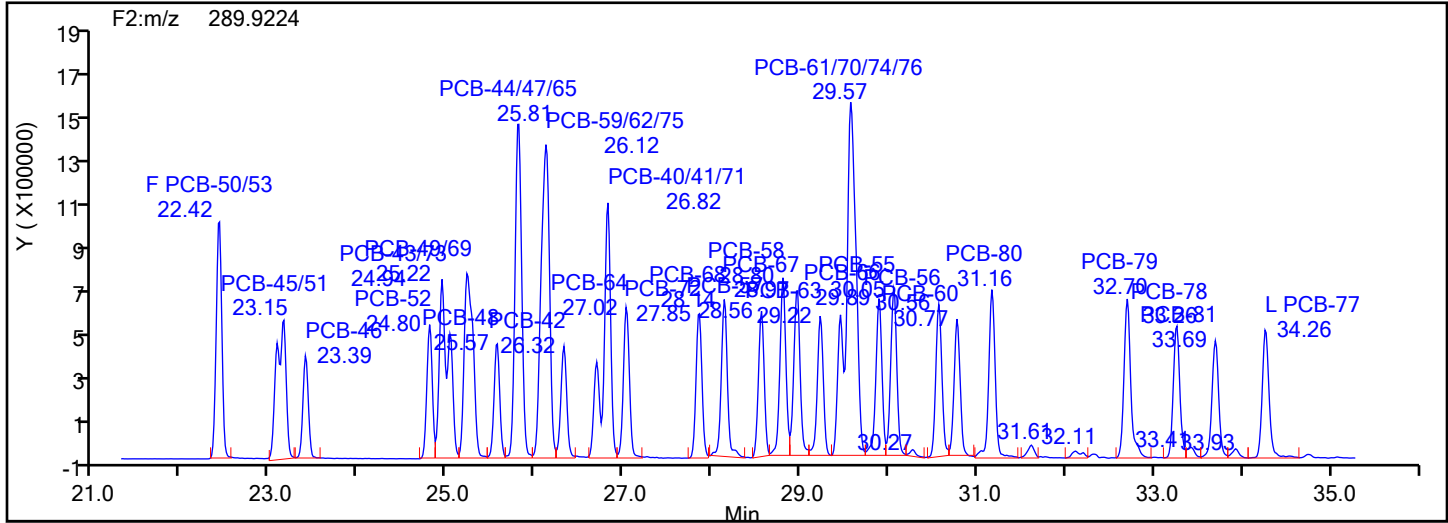
Worklist#: 88242

Sample Line#: 1

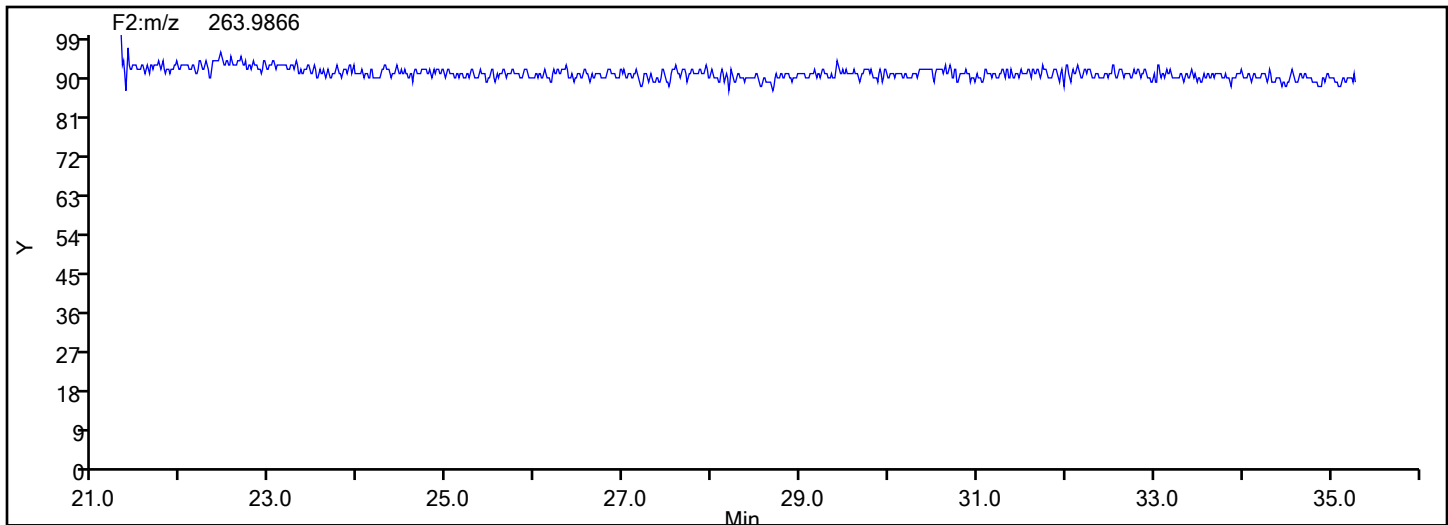
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

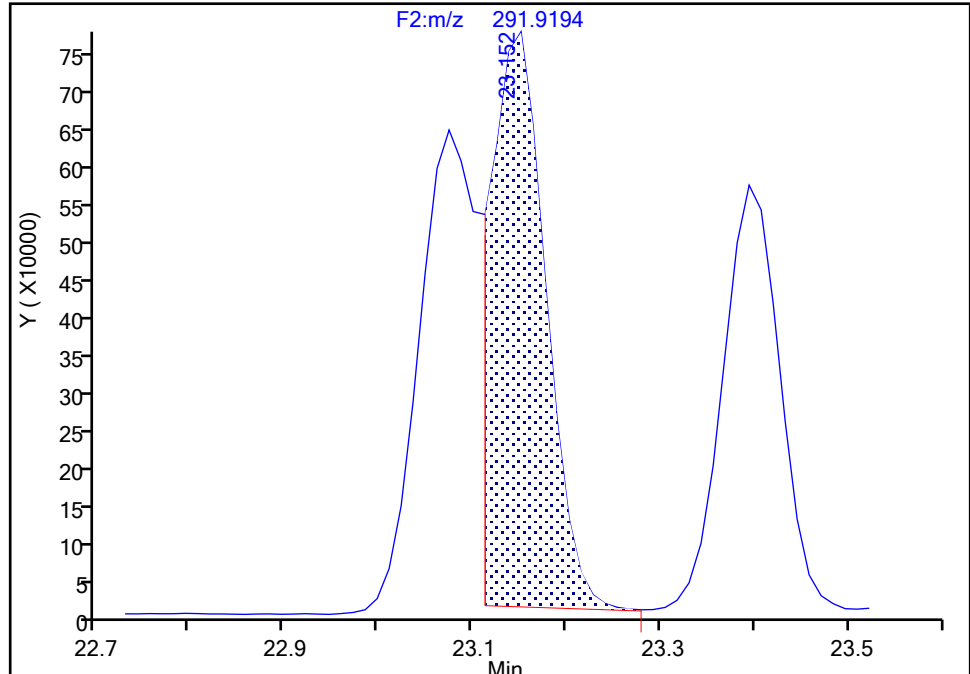
Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 2

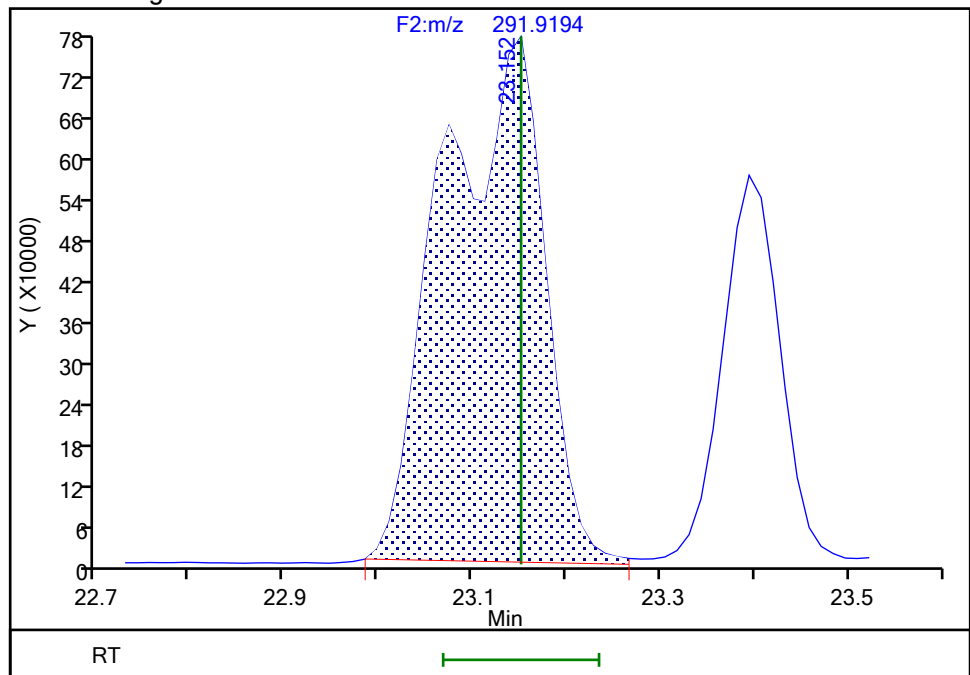
RT: 23.15  
Area: 2971097  
Amount: 52.074119  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.15  
Area: 5756136  
Amount: 100.7732  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:31:55 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

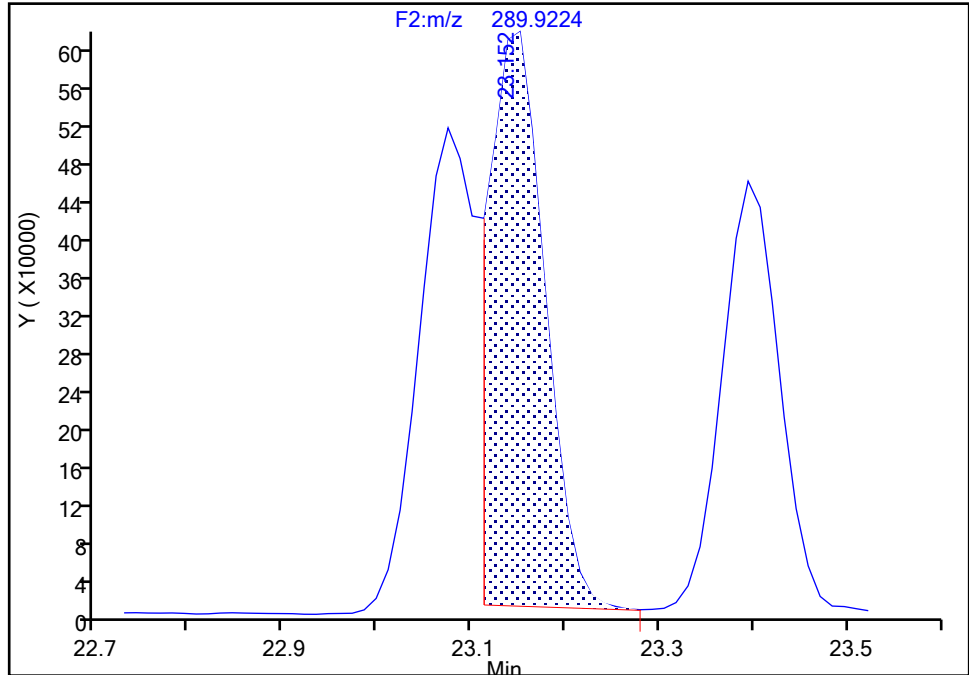
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-45/51, CAS: STL01804

Signal: 1

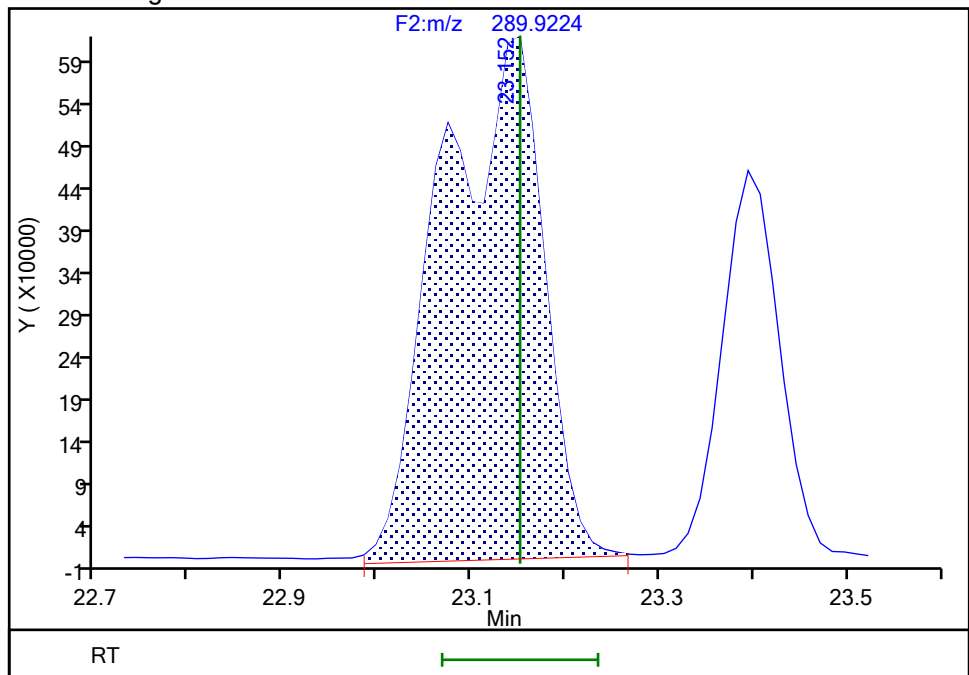
RT: 23.15  
Area: 2369726  
Amount: 52.074119  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.15  
Area: 4579361  
Amount: 100.7732  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:32:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-Fa  
3:53:39 PM

## Eurofins Knoxville

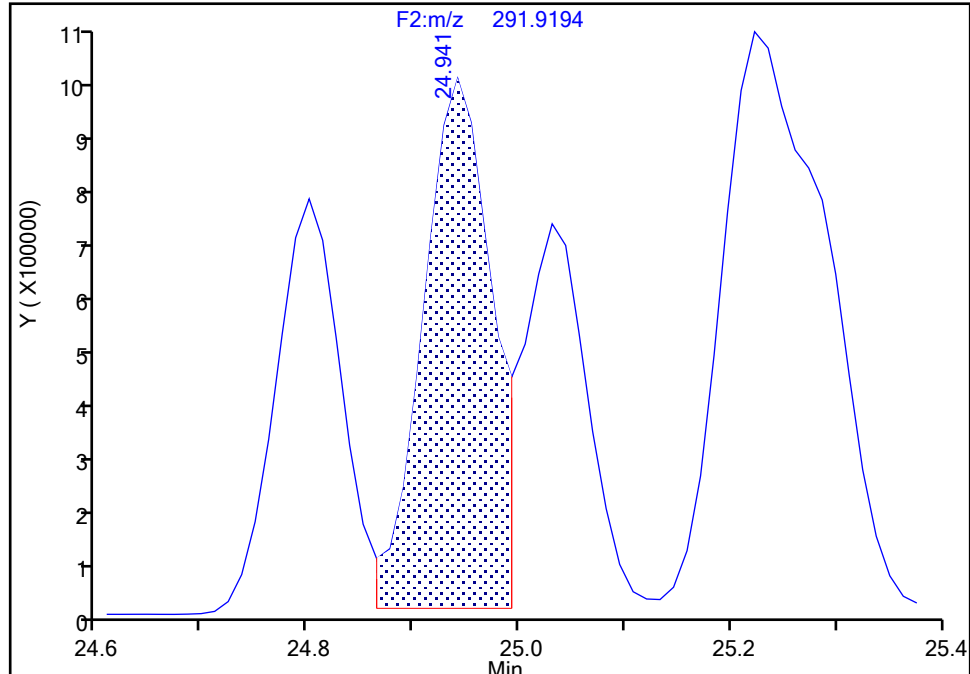
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 2

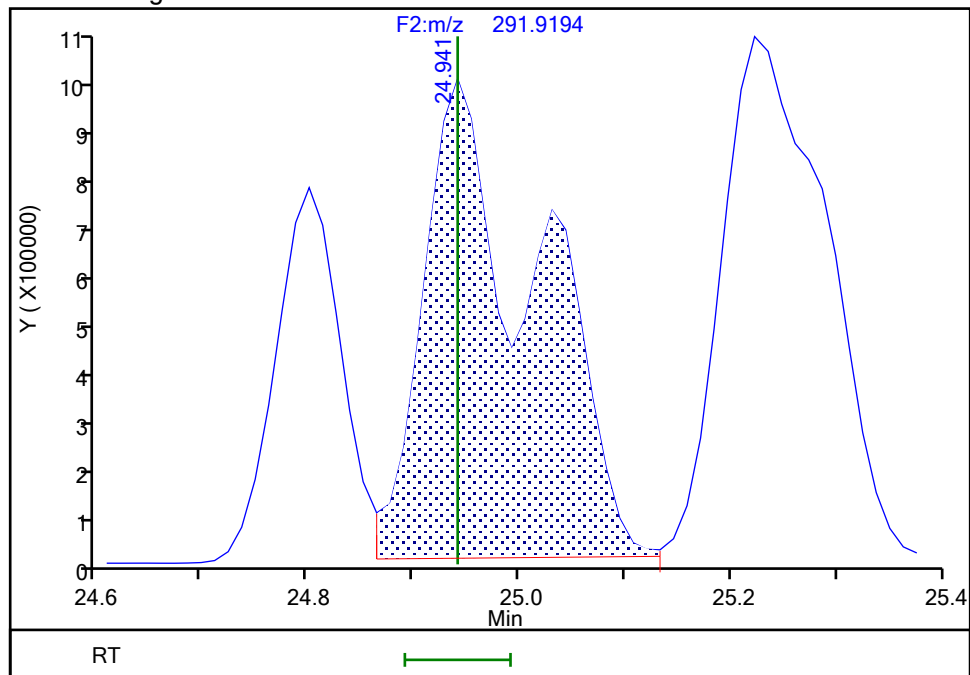
RT: 24.94  
Area: 4268413  
Amount: 60.041131  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.94  
Area: 7179692  
Amount: 101.2551  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:32:09 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

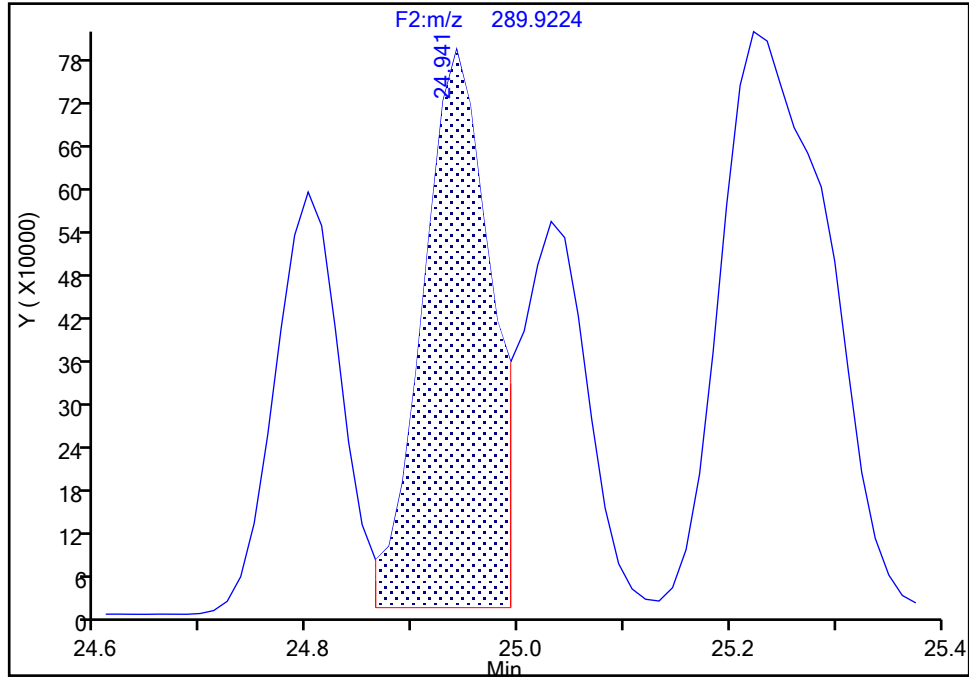
Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 1

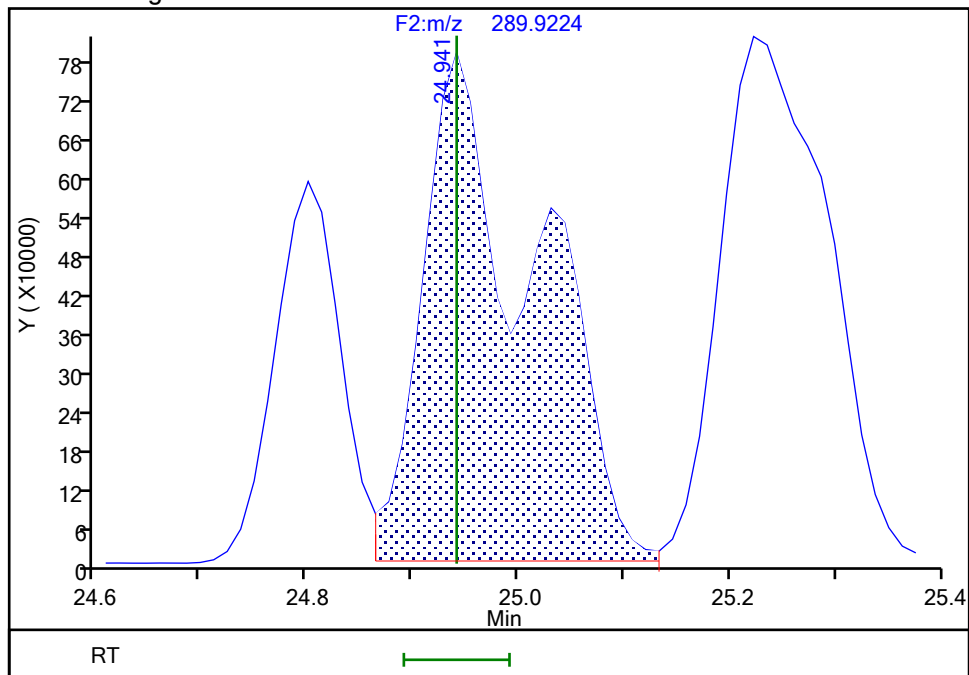
RT: 24.94  
Area: 3431304  
Amount: 60.041131  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.94  
Area: 5805337  
Amount: 101.2551  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:32:16 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM

## Eurofins Knoxville

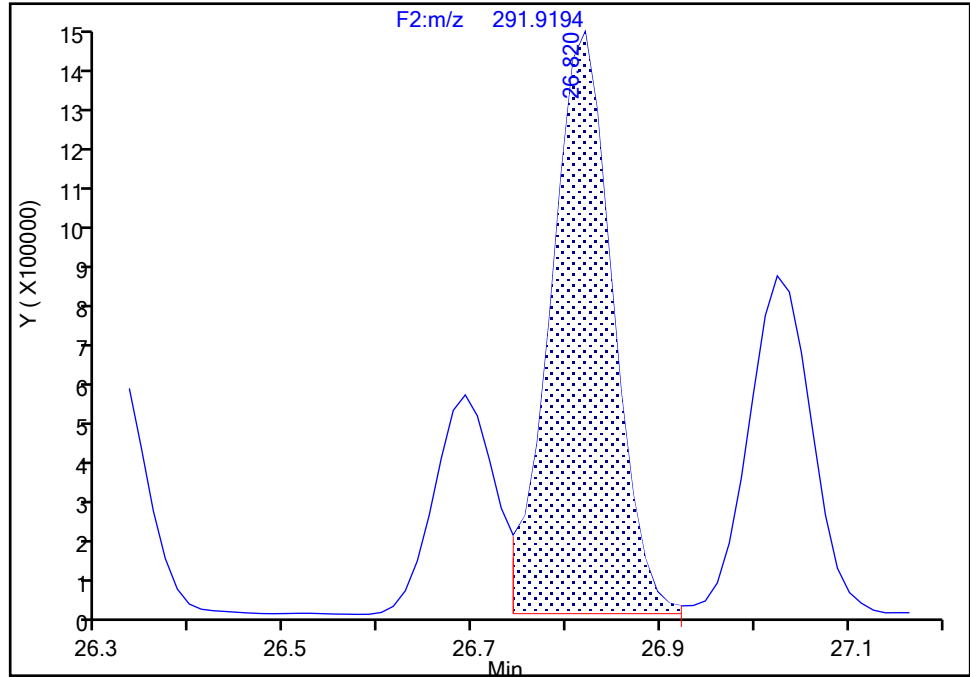
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-40/41/71, CAS: STL02292

Signal: 2

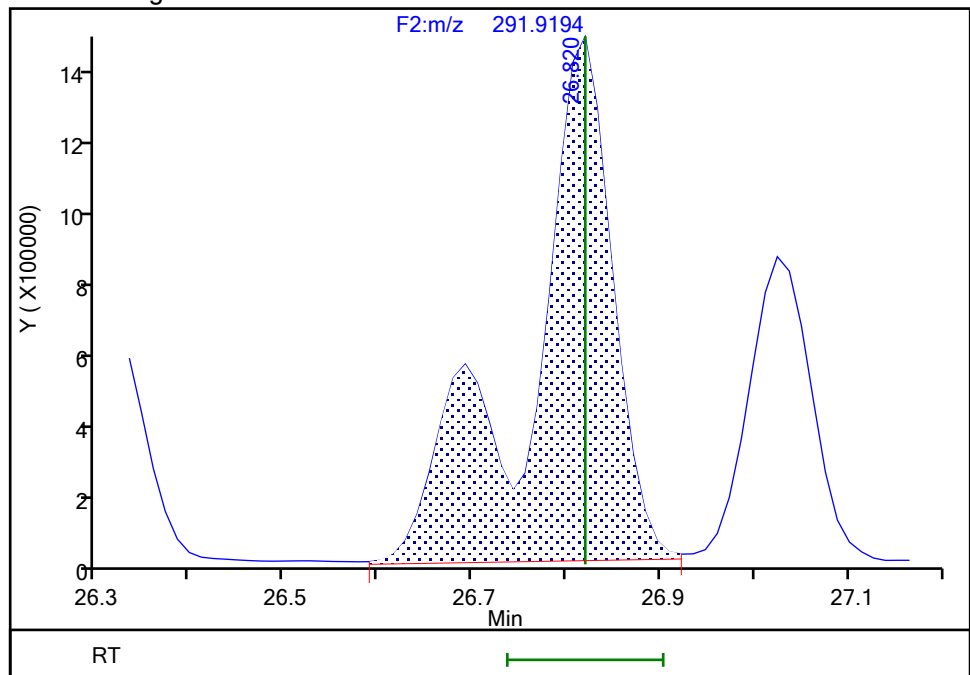
RT: 26.82  
Area: 6509558  
Amount: 105.8762  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.82  
Area: 8925295  
Amount: 145.2102  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:32:30 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

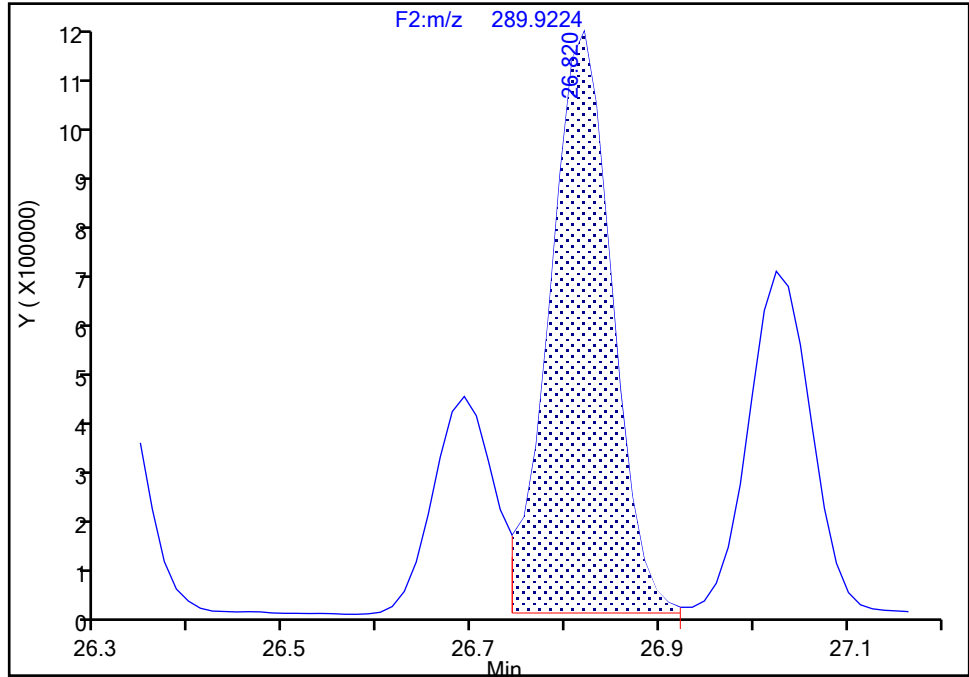
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-40/41/71, CAS: STL02292

Signal: 1

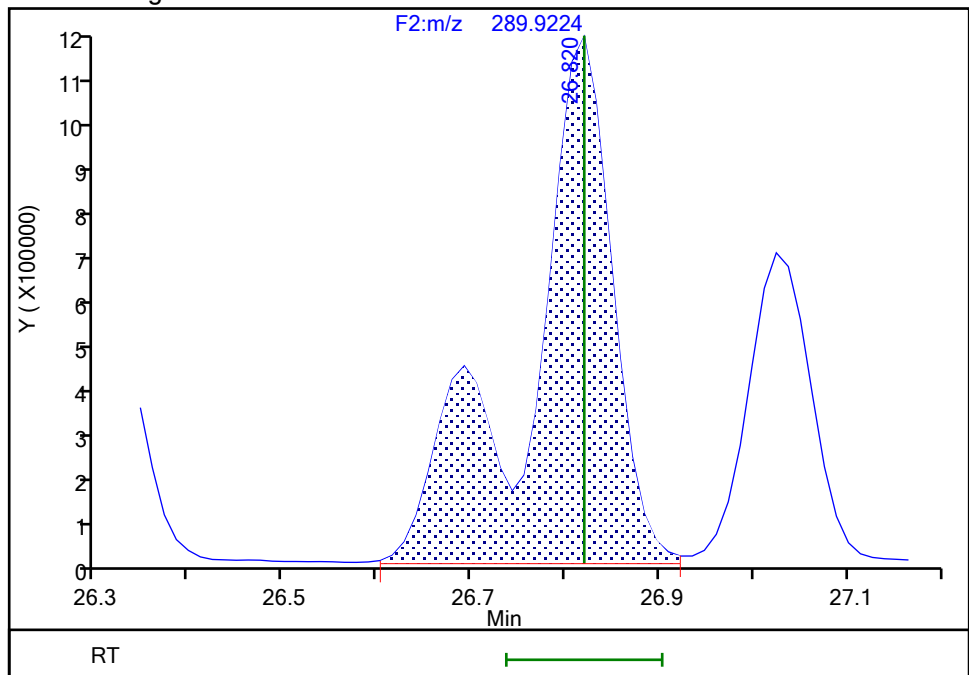
RT: 26.82  
Area: 5136454  
Amount: 105.8762  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.82  
Area: 7047323  
Amount: 145.2102  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:32:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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9/6/2024  
3:53:39 PM



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

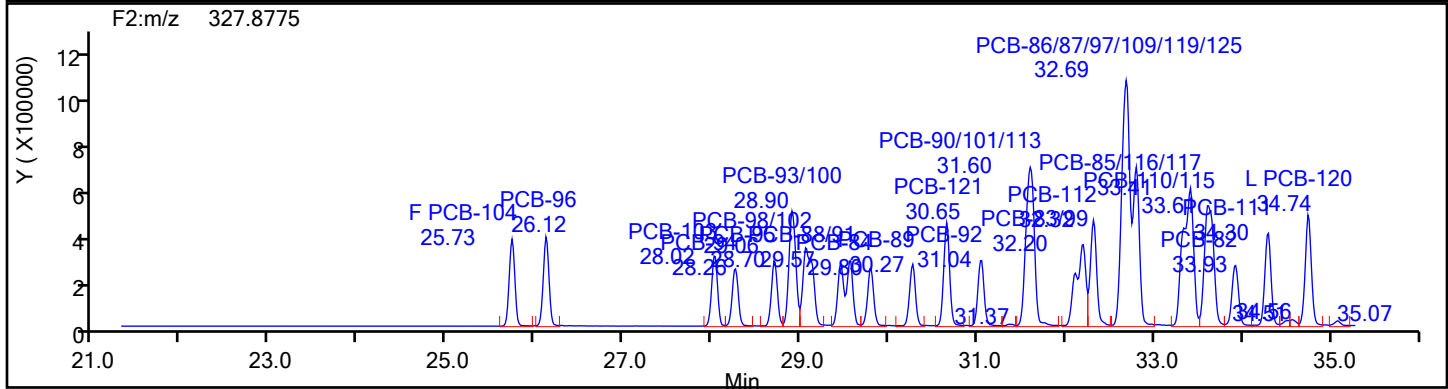
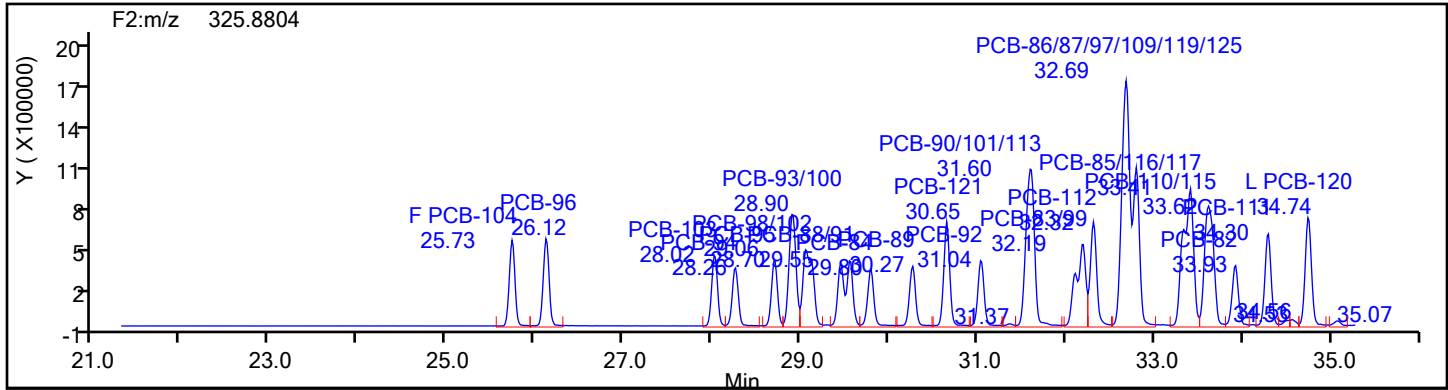
Worklist#: 88242

Sample Line#: 1

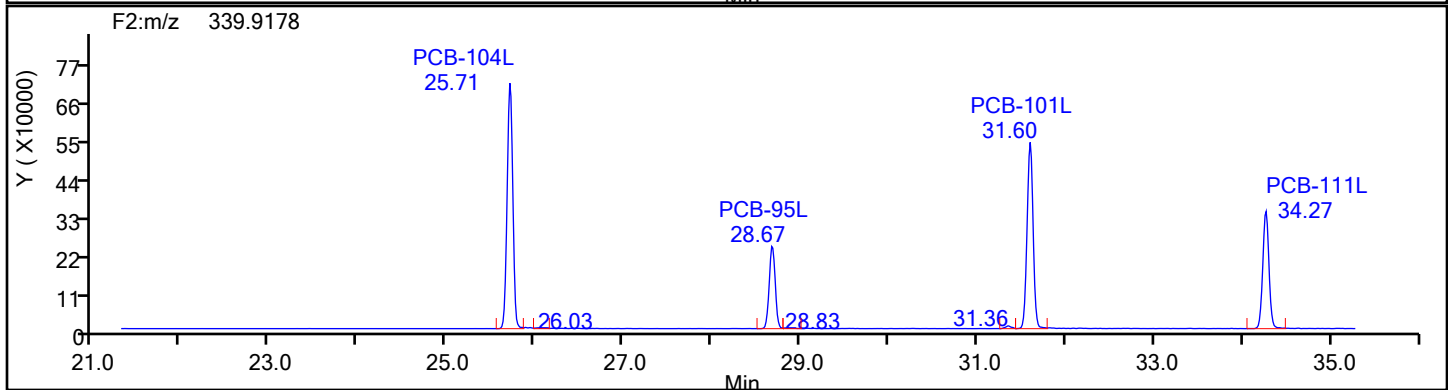
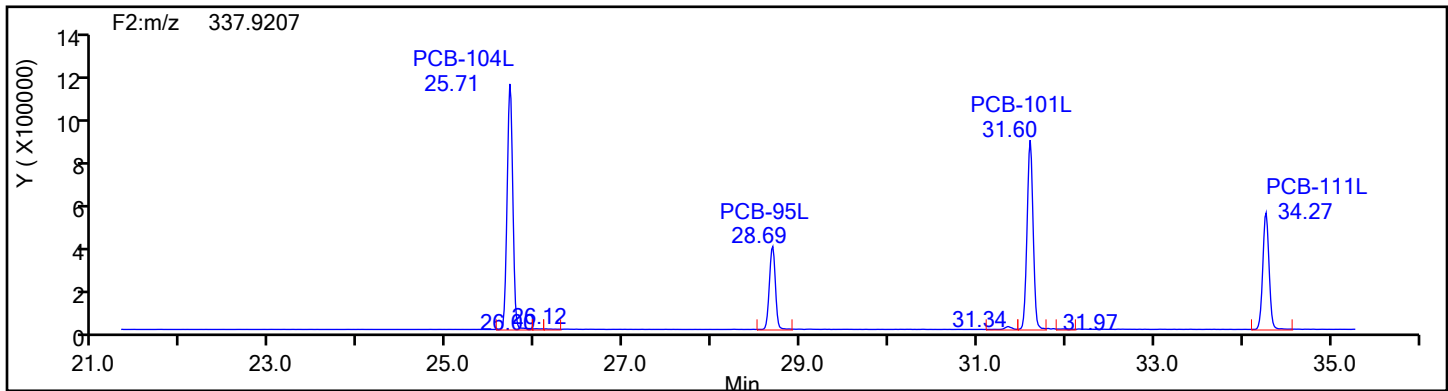
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

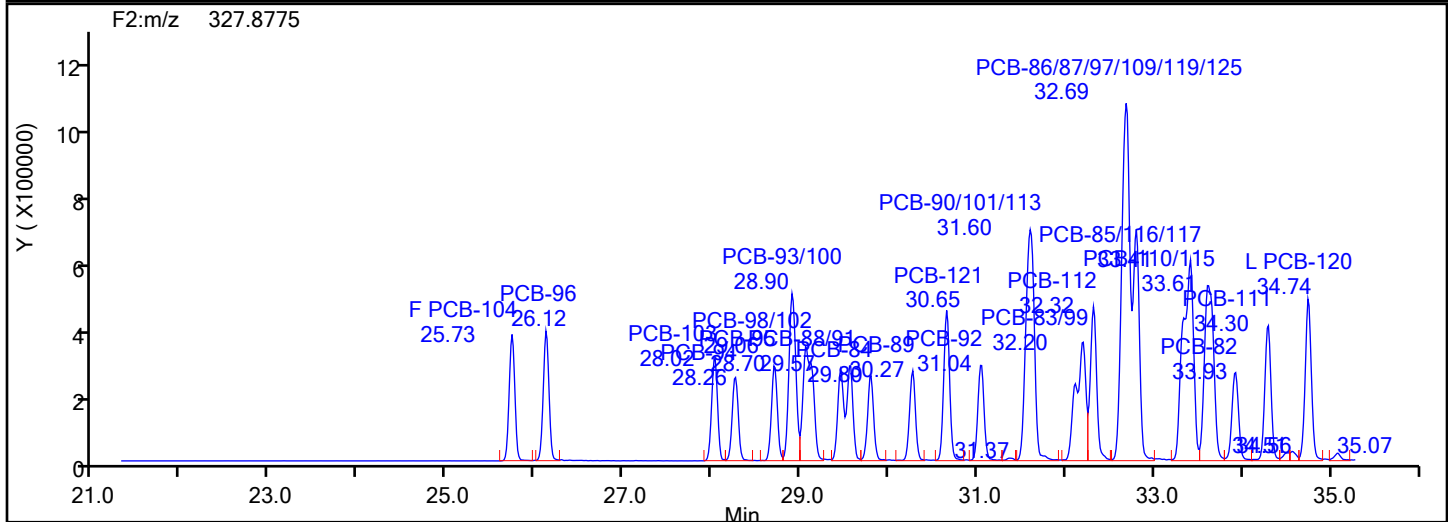
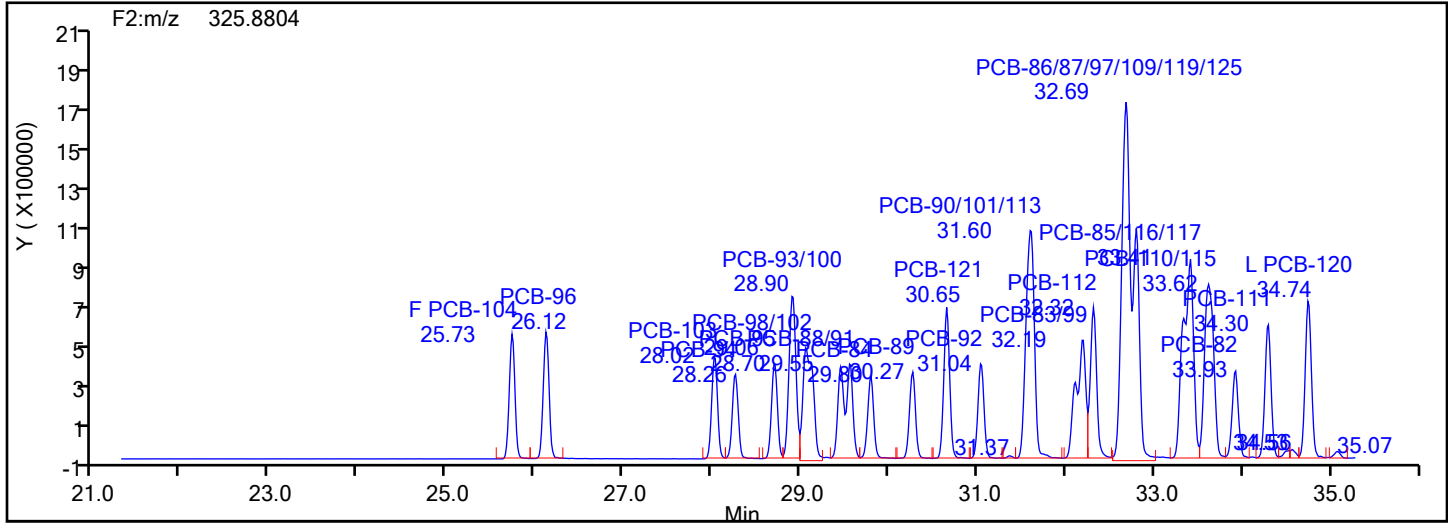


## PePCB F2 Standards

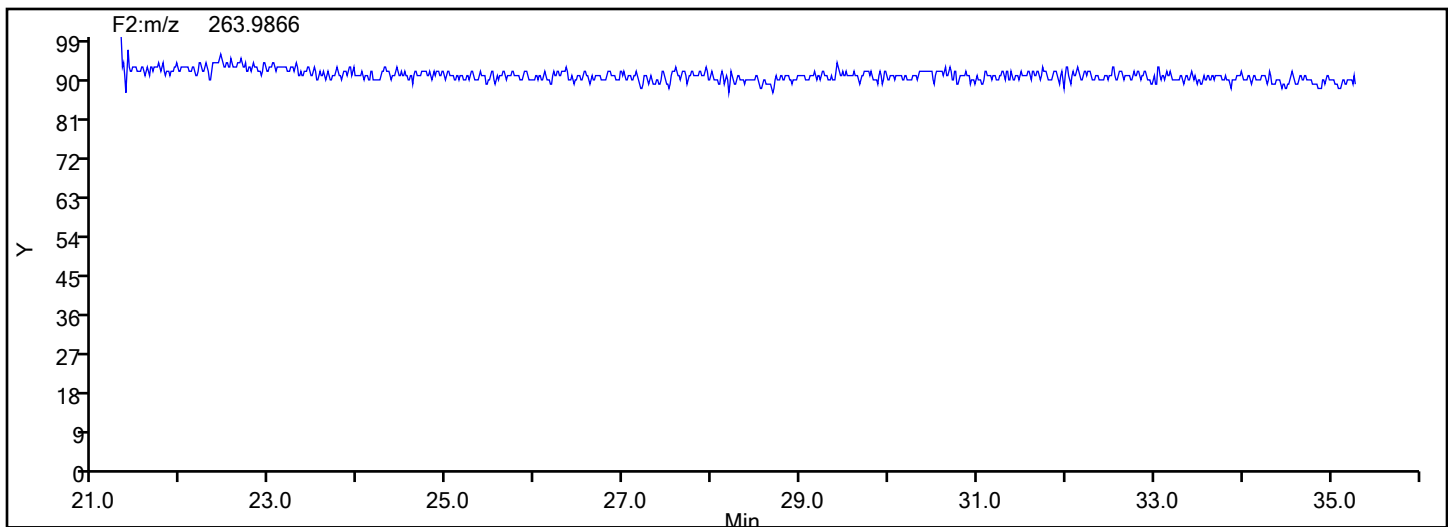


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88242 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

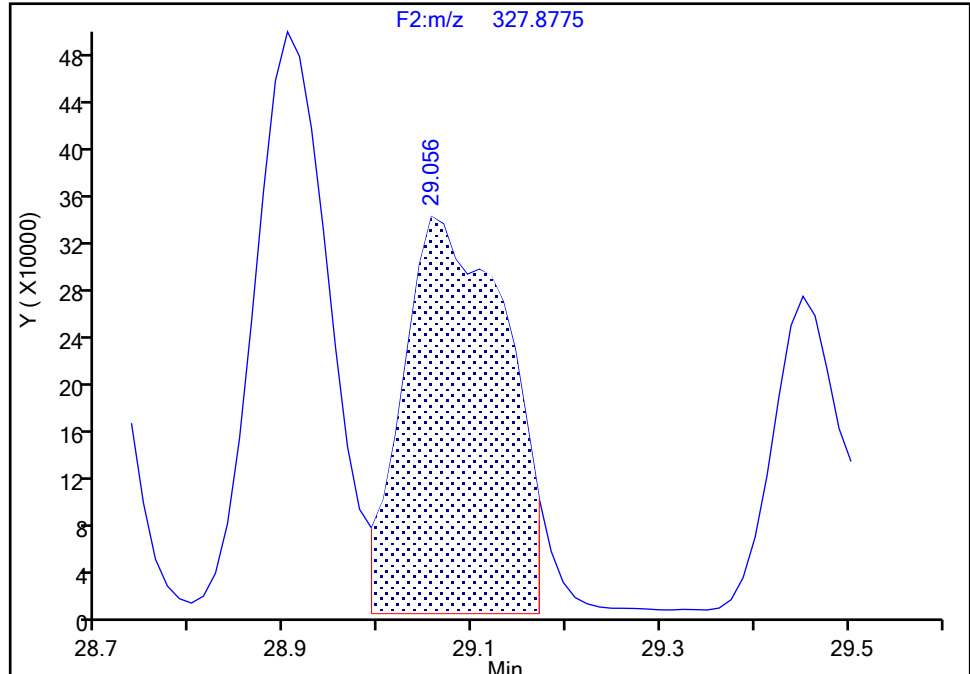
Detector F2(21.81 :35.54 )

PCB-98/102, CAS: STL01843

Signal: 2

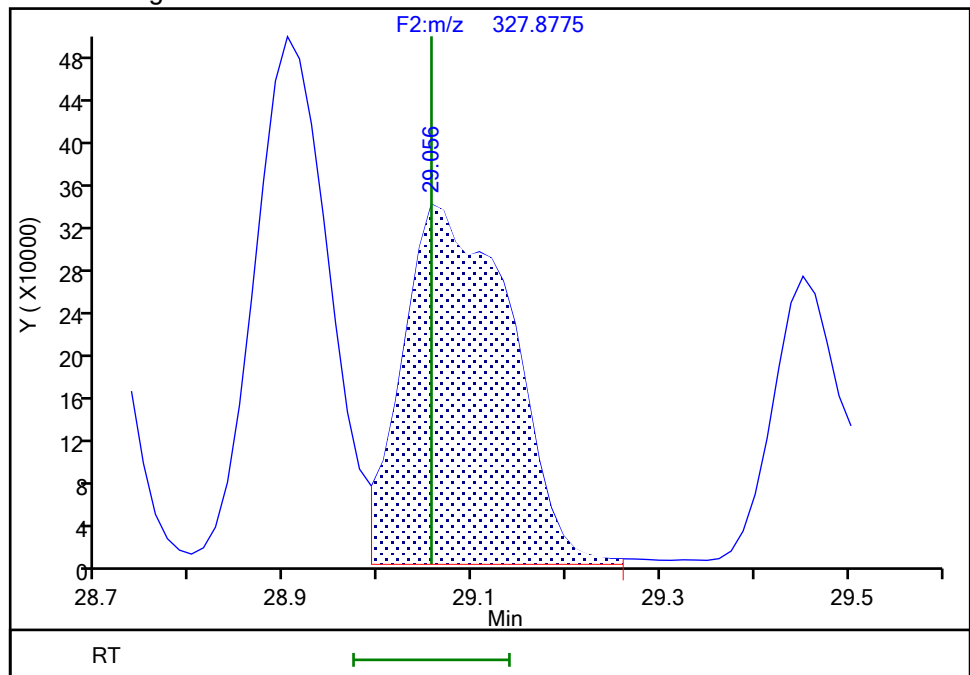
RT: 29.06  
Area: 2546262  
Amount: 97.075843  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.06  
Area: 2657005  
Amount: 102.4851  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:32:59 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

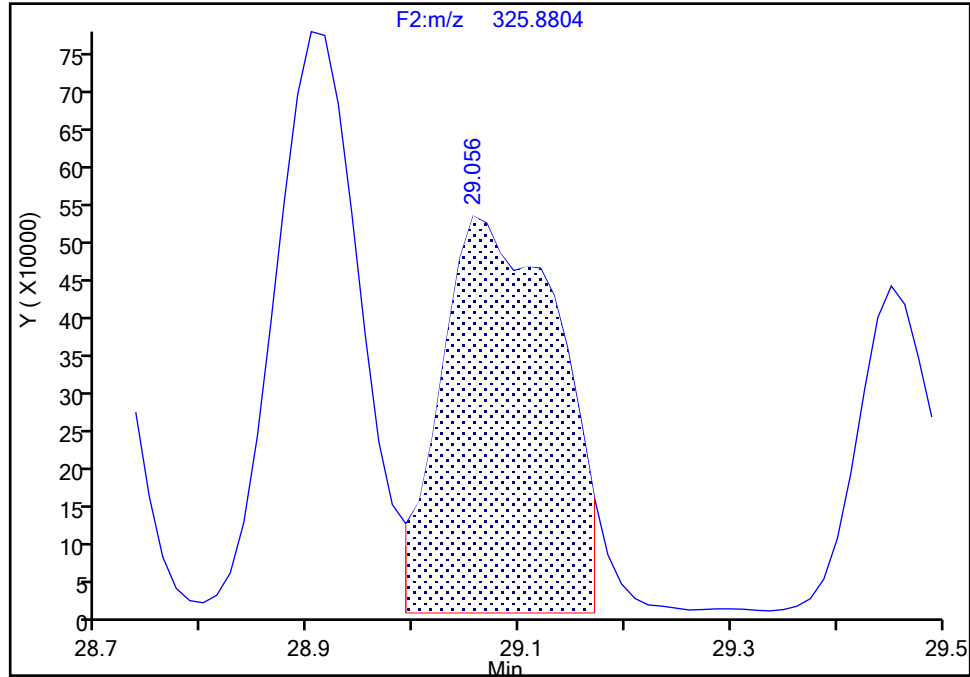
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-98/102, CAS: STL01843

Signal: 1

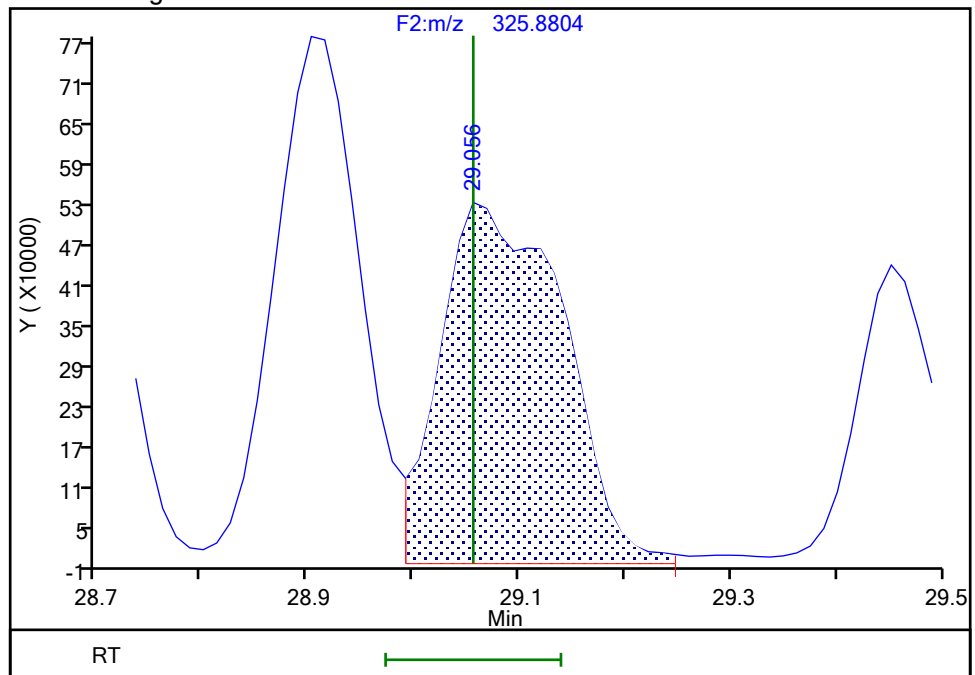
RT: 29.06  
Area: 4037815  
Amount: 97.075843  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.06  
Area: 4293952  
Amount: 102.4851  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:33:04 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-05122  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

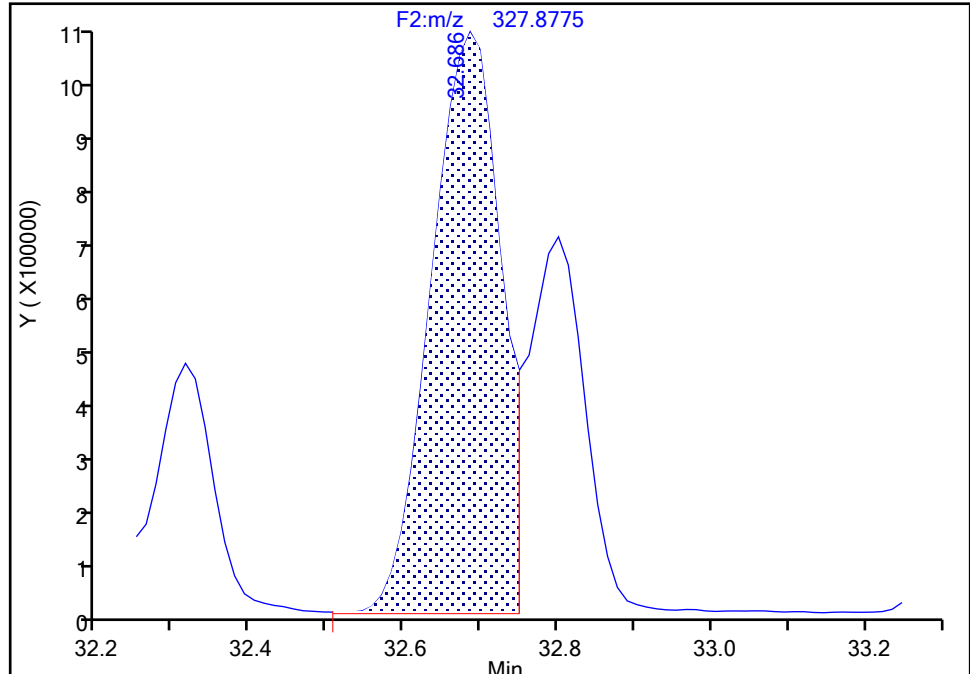
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

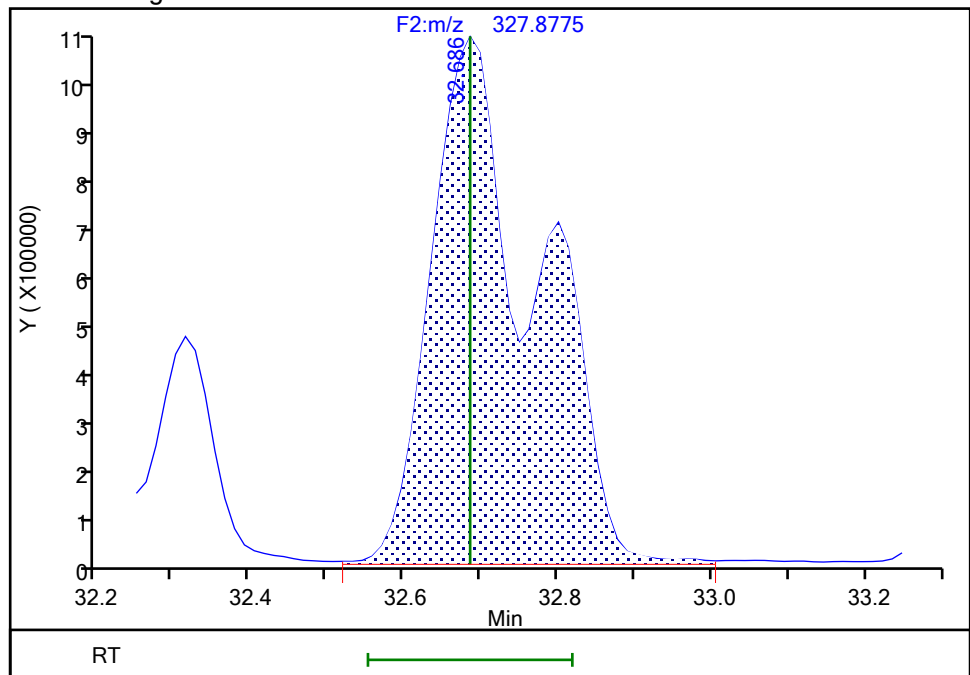
RT: 32.69  
Area: 6586448  
Amount: 198.6194  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.69  
Area: 10015285  
Amount: 304.6177  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:33:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

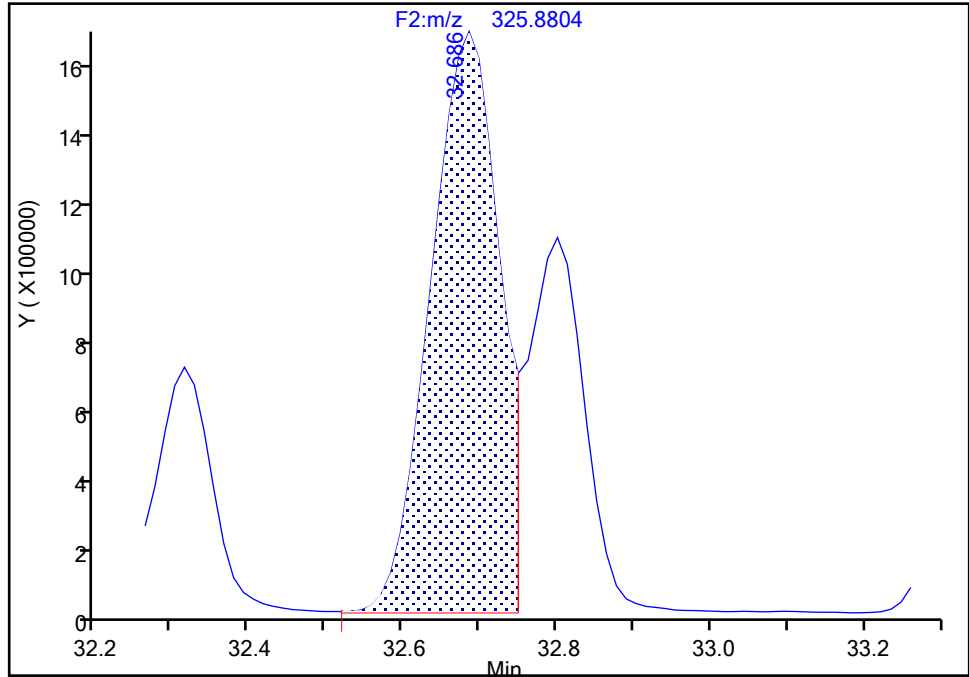
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

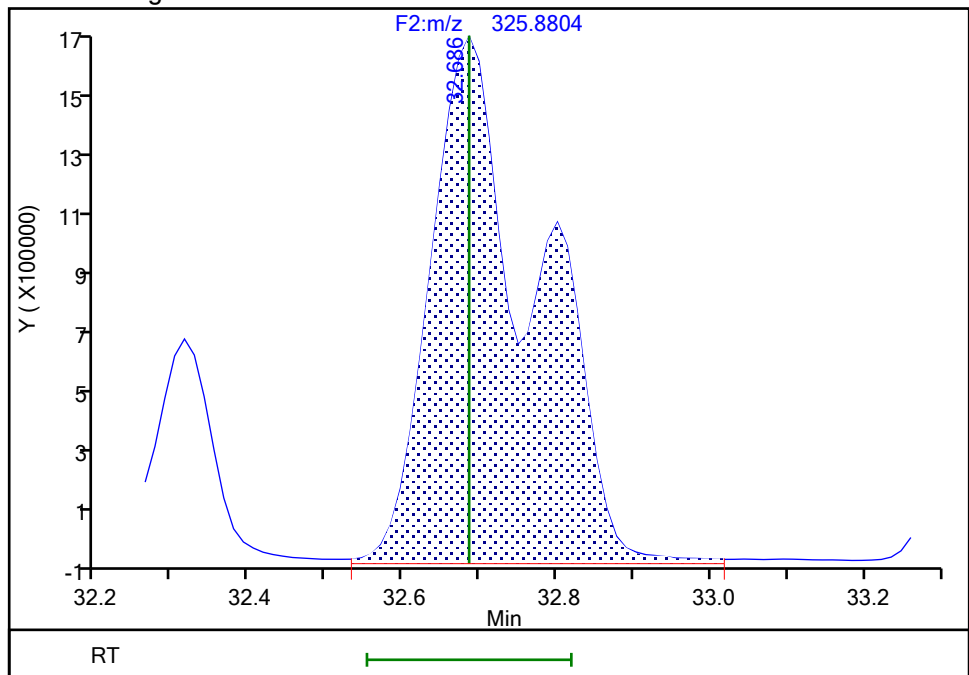
RT: 32.69  
Area: 10490193  
Amount: 198.6194  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.69  
Area: 16174741  
Amount: 304.6177  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:33:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

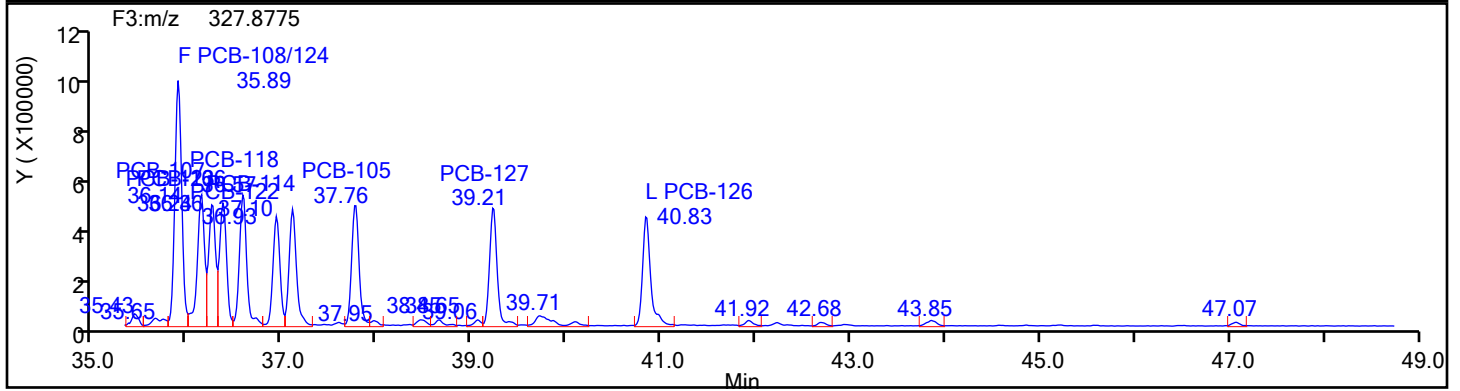
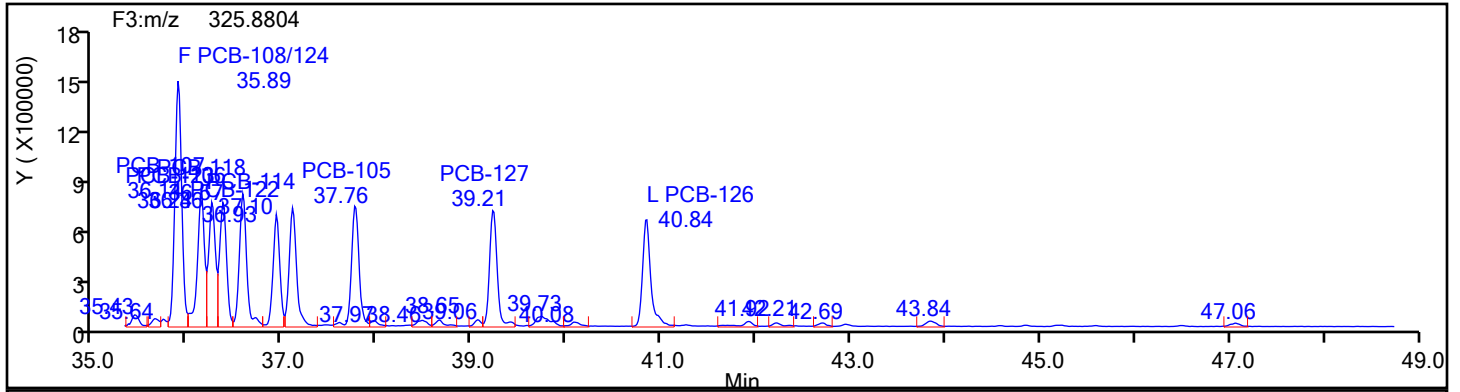
Audit Reason: Baseline

Page 3000 of 3373

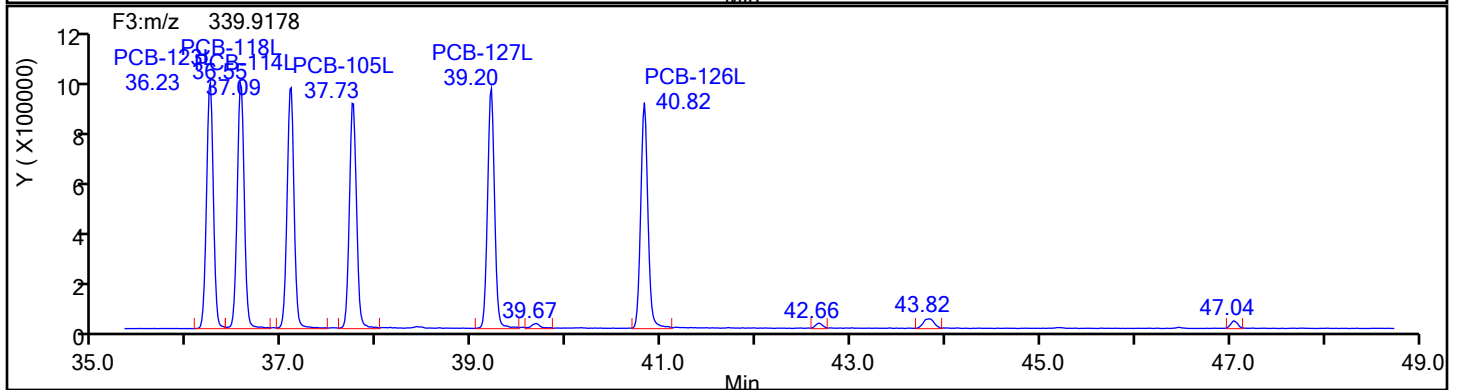
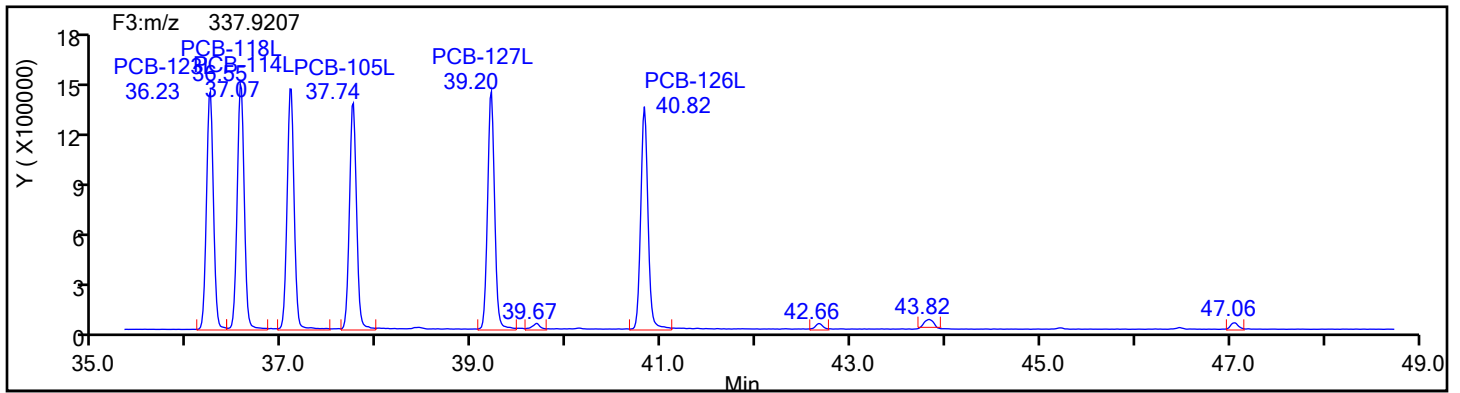
BASFHWC-F20240628-124  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88242 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3



## PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

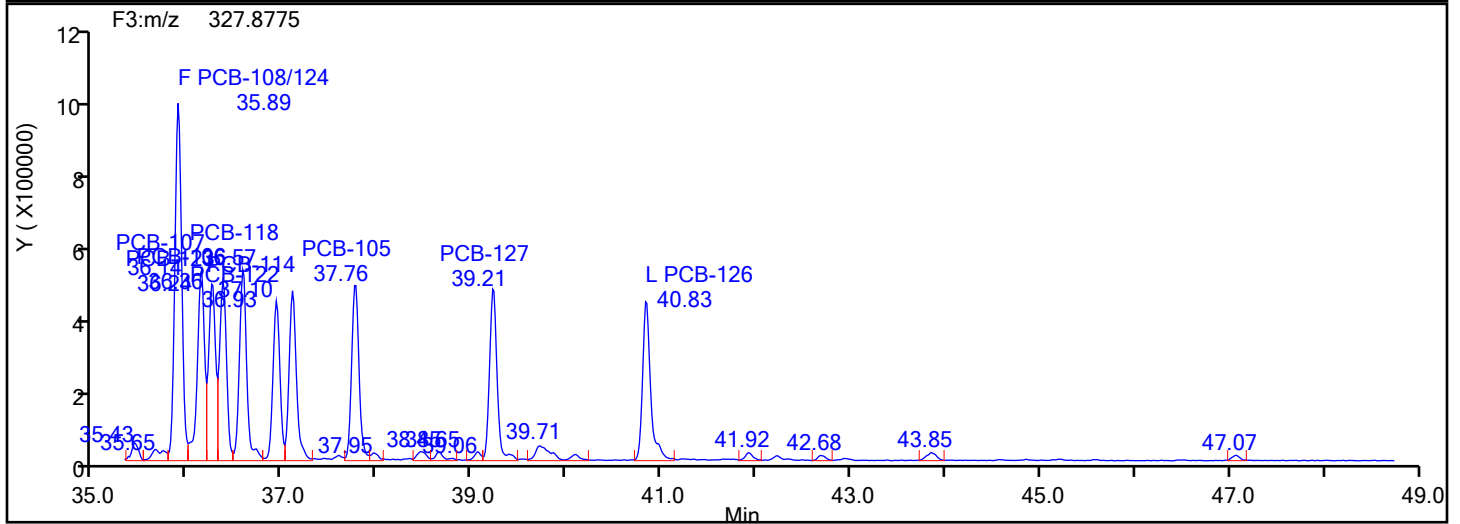
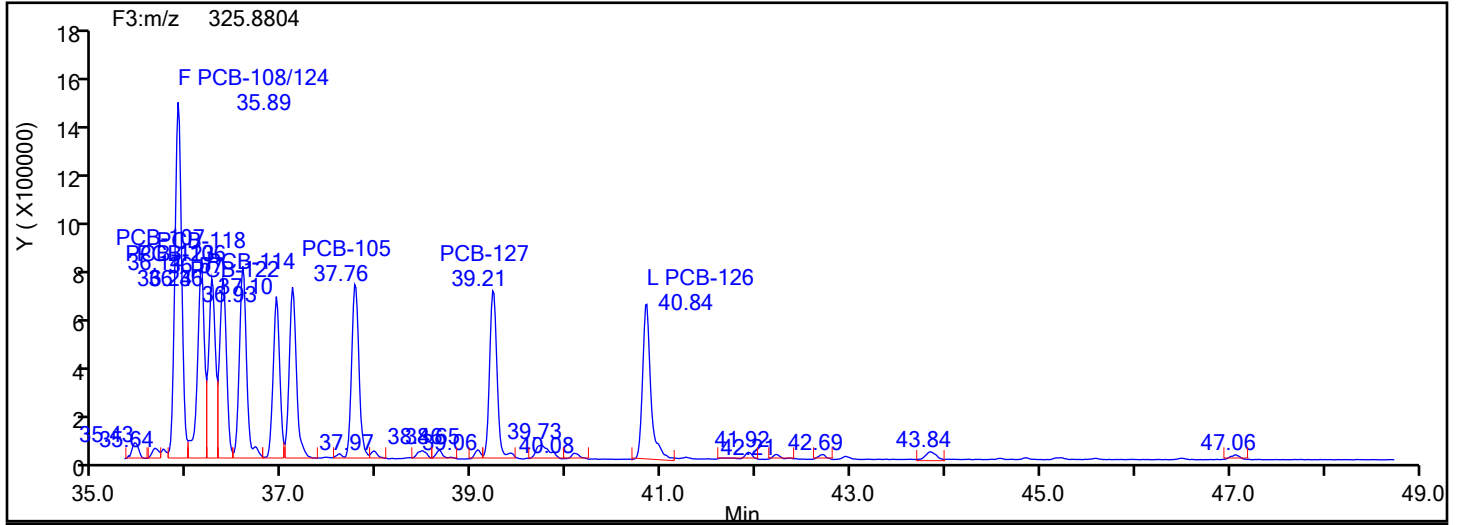
Worklist#: 88242

Sample Line#: 1

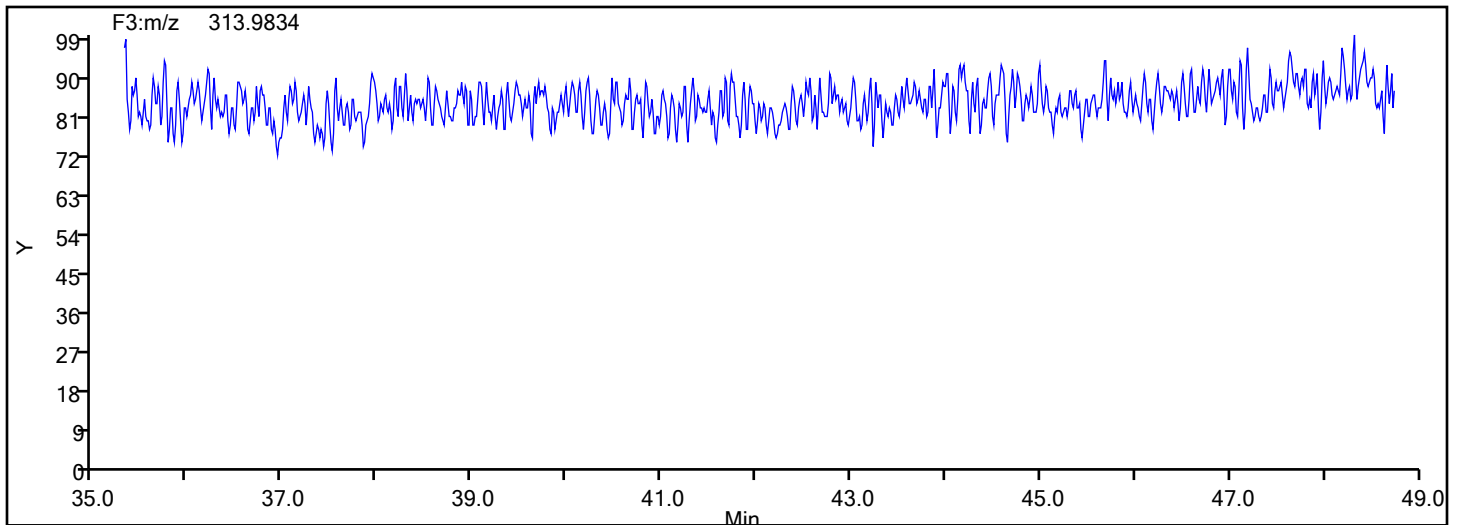
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



## PePCB F3 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

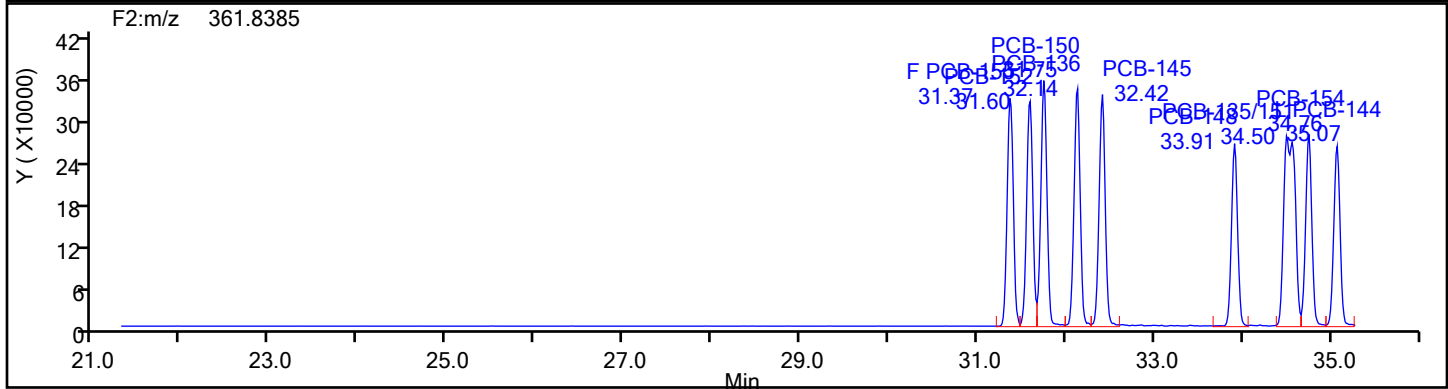
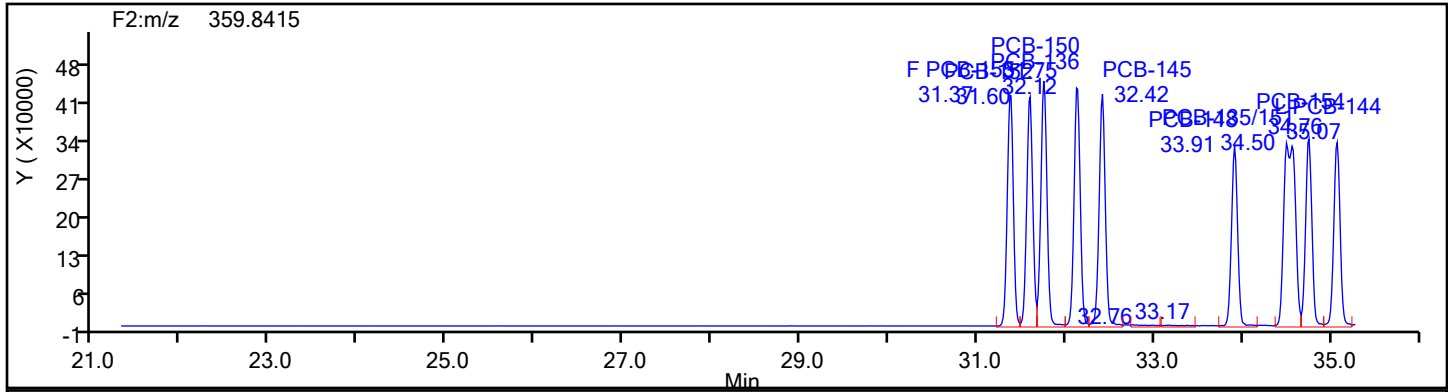
Worklist#: 88242

Sample Line#: 1

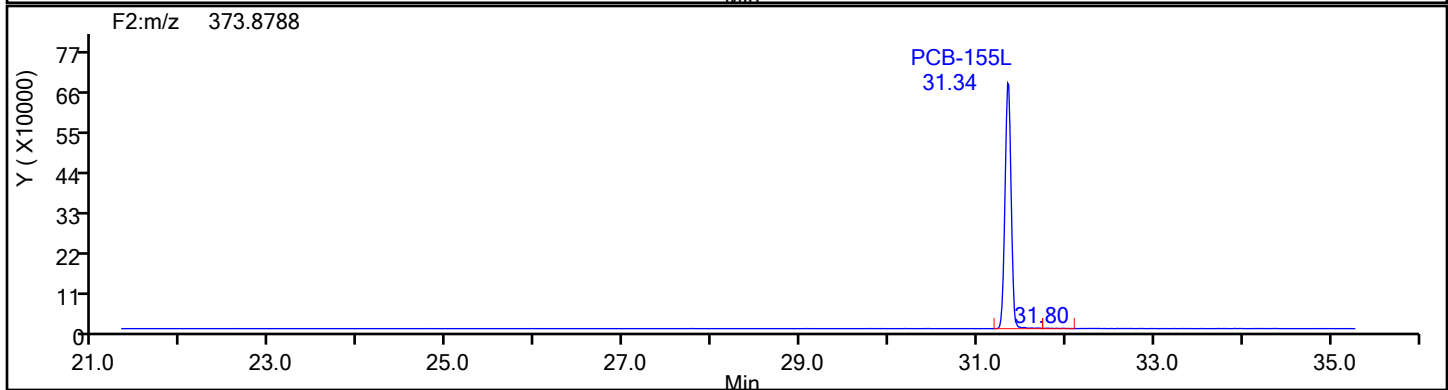
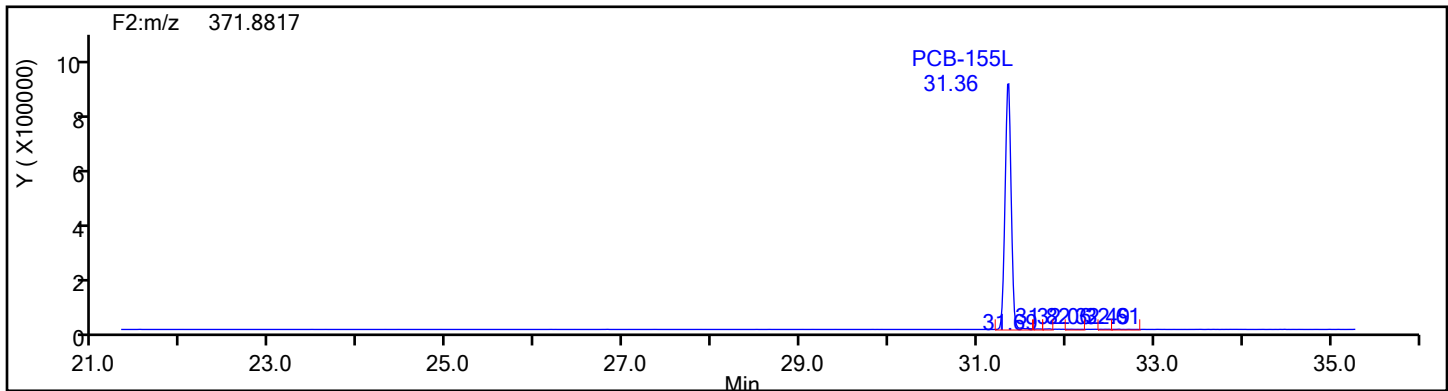
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

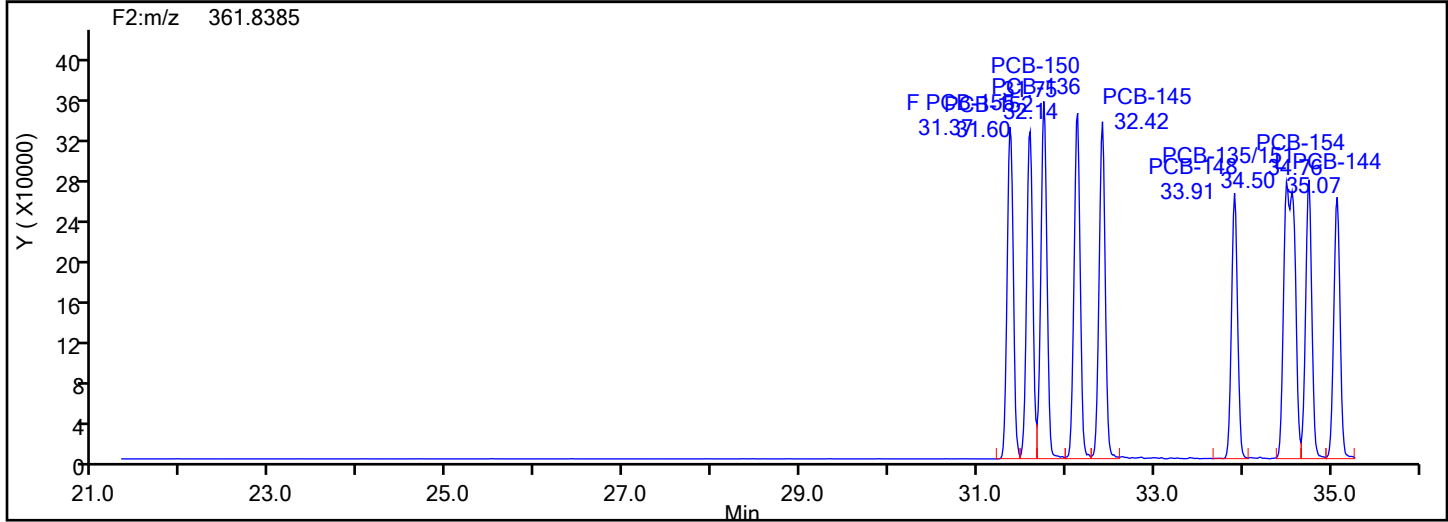
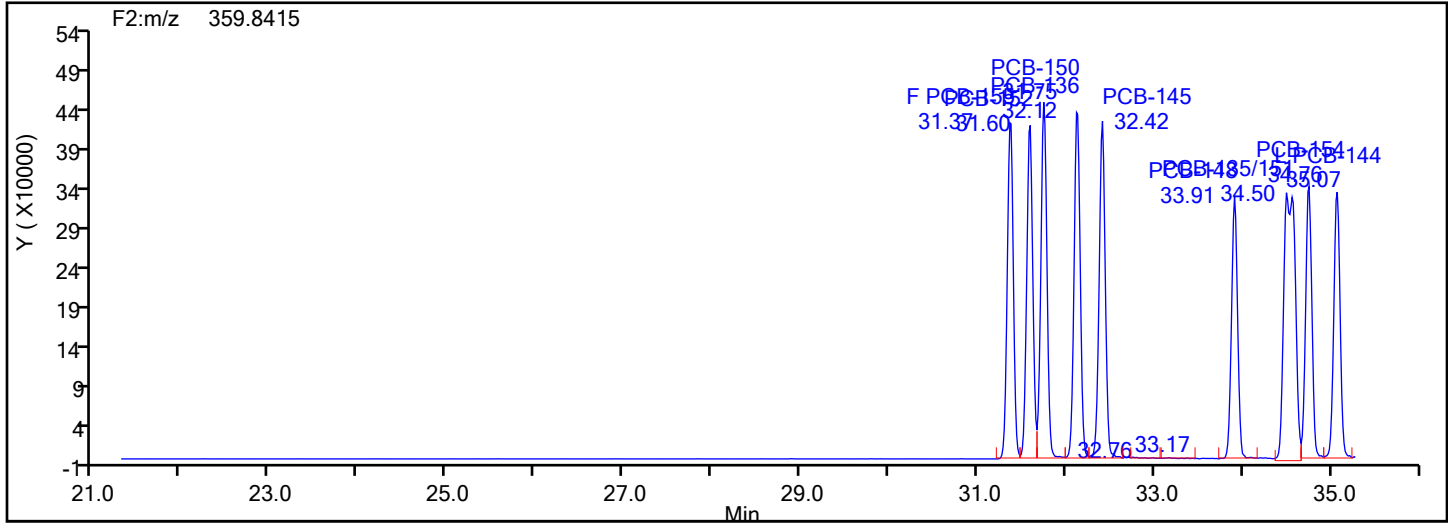
Worklist#: 88242

Sample Line#: 1

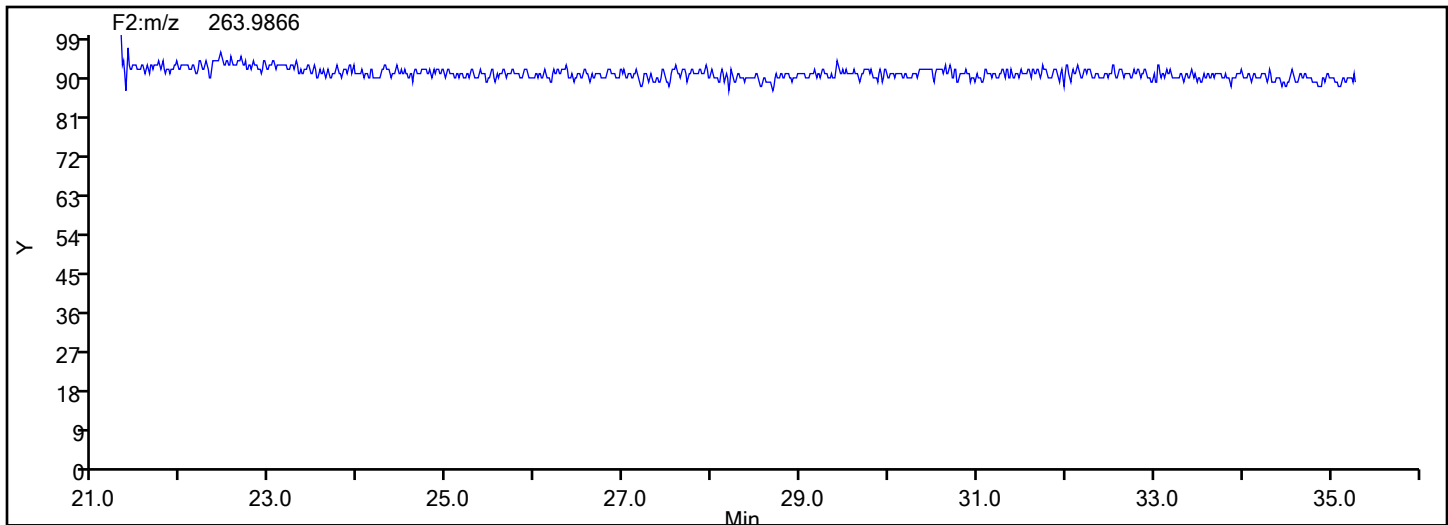
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

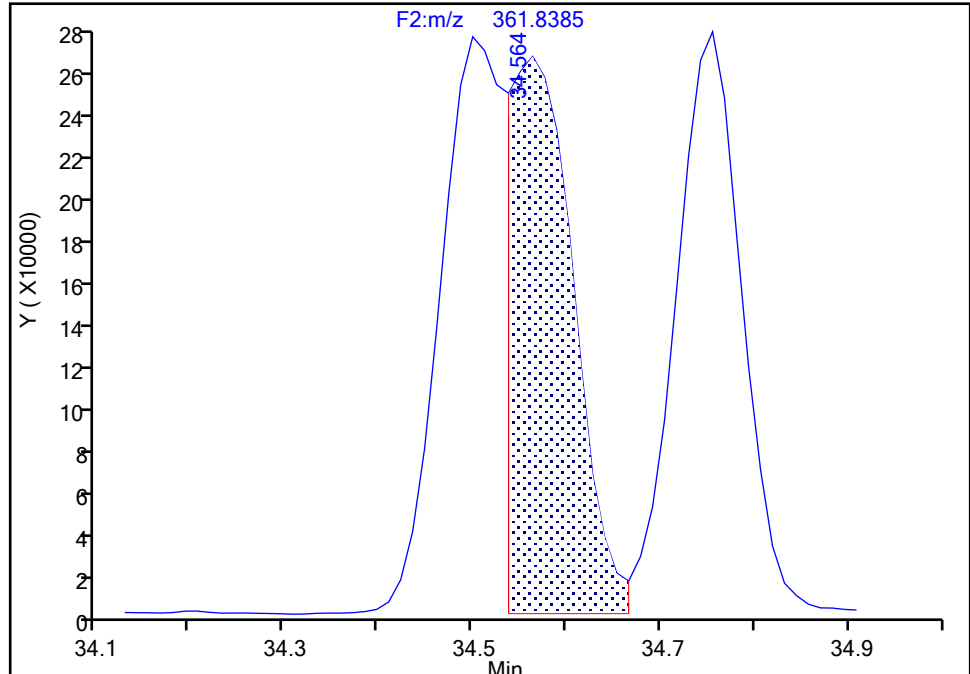
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 2

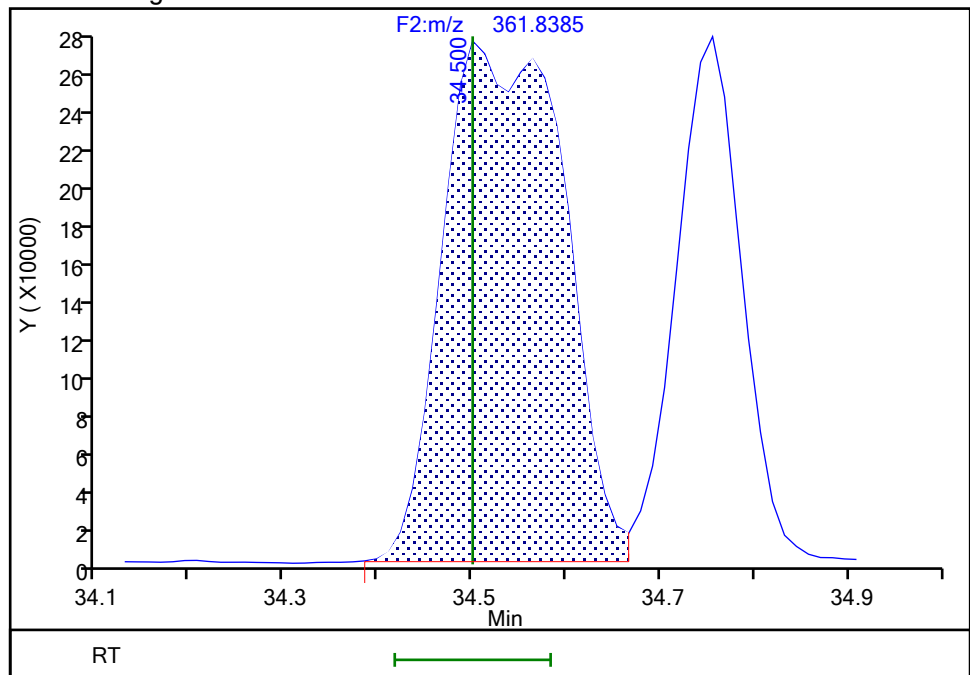
RT: 34.56  
Area: 1199585  
Amount: 49.130844  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.50  
Area: 2448201  
Amount: 100.3402  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:33:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

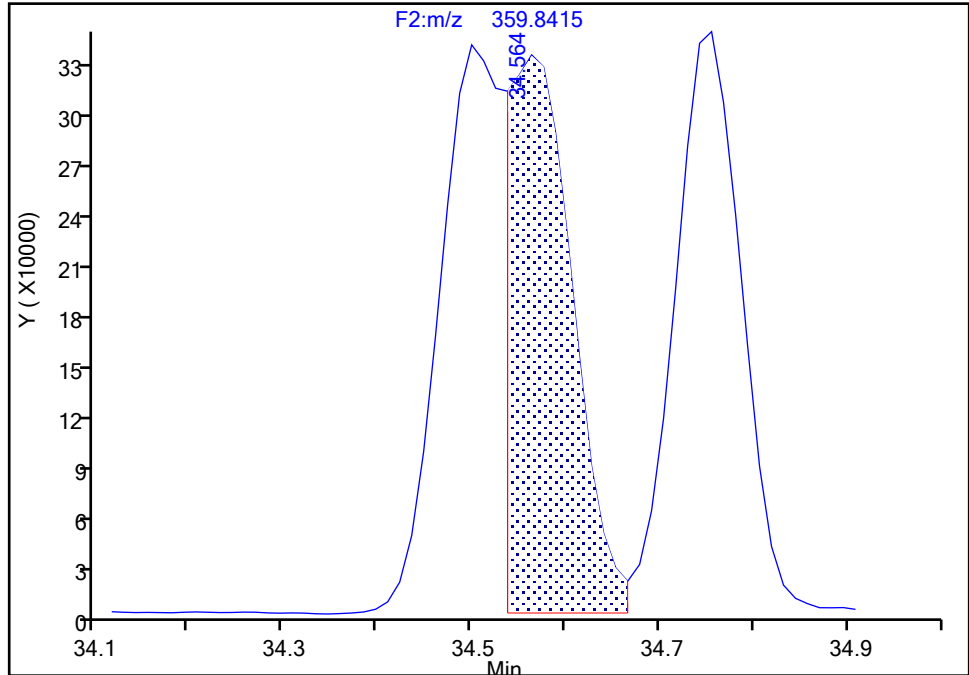
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 1

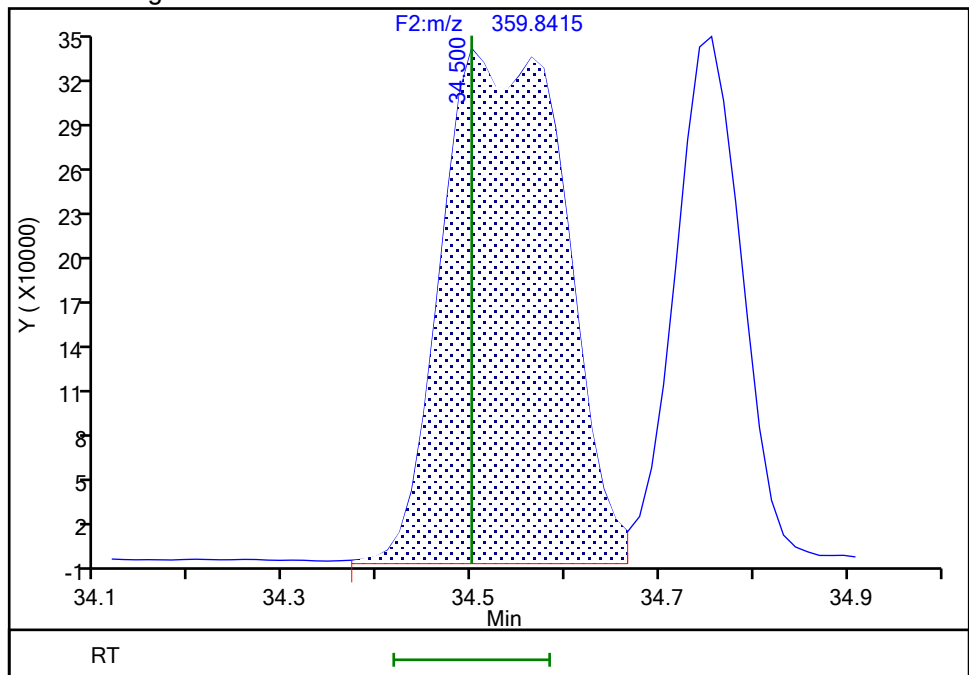
RT: 34.56  
Area: 1496237  
Amount: 49.130844  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.50  
Area: 3057492  
Amount: 100.3402  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:33:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 3006 of 3373

BASFHWC-Fa  
9/6/2024  
3:53:39 PM

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Vol: 1.0 ul

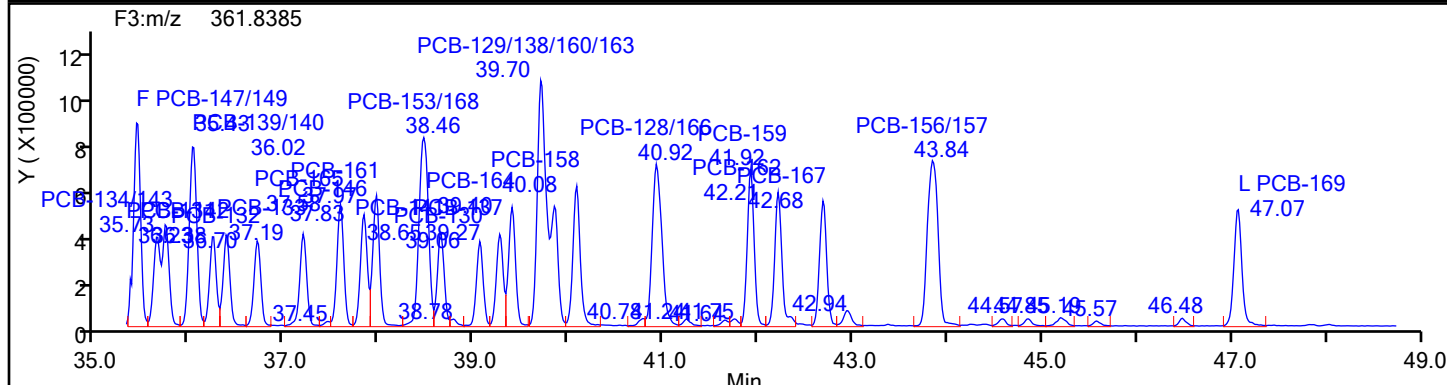
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

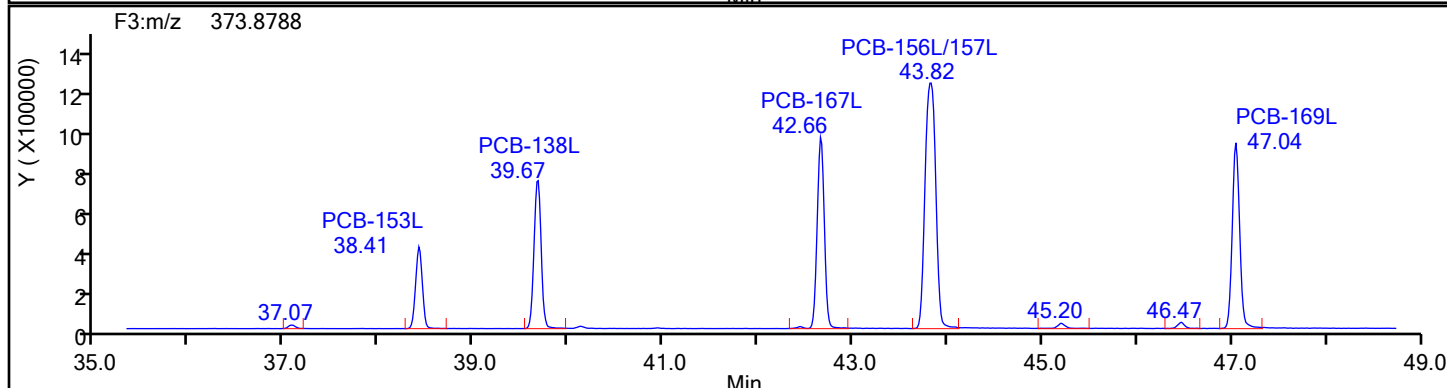
Sample Line#: 1

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

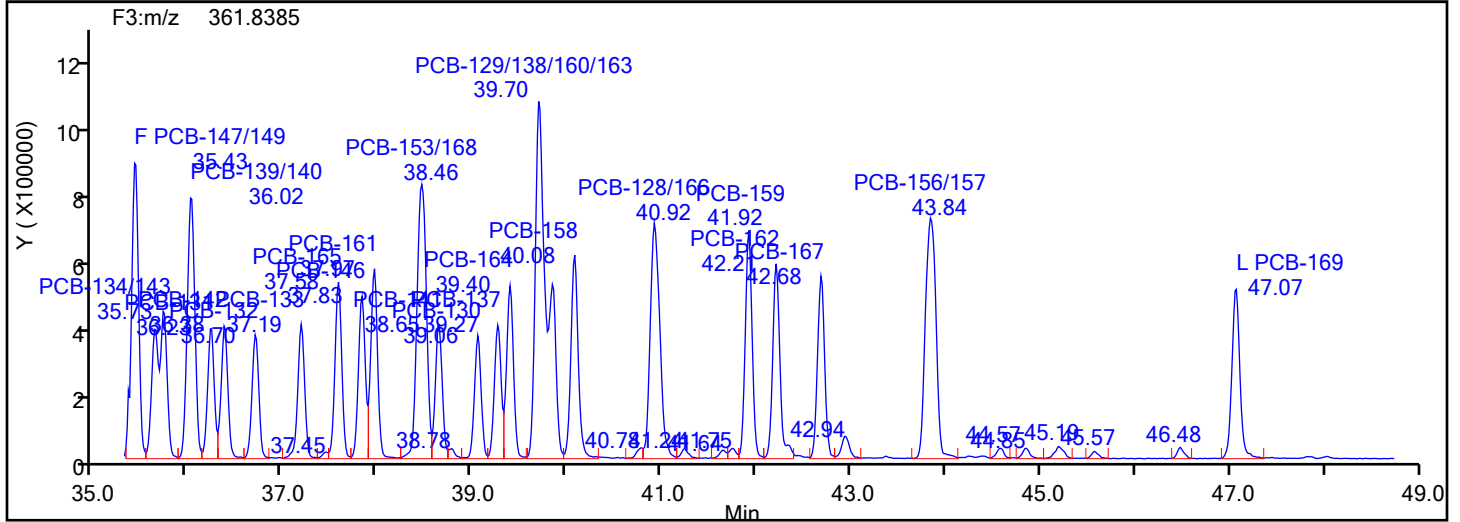
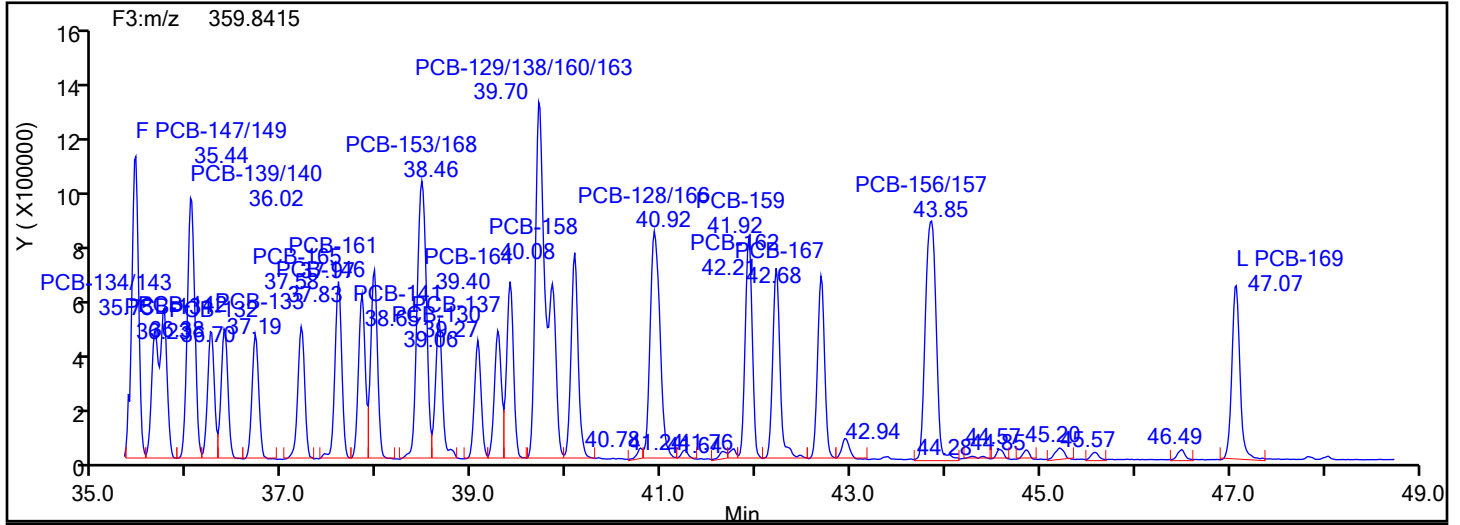
Worklist#: 88242

Sample Line#: 1

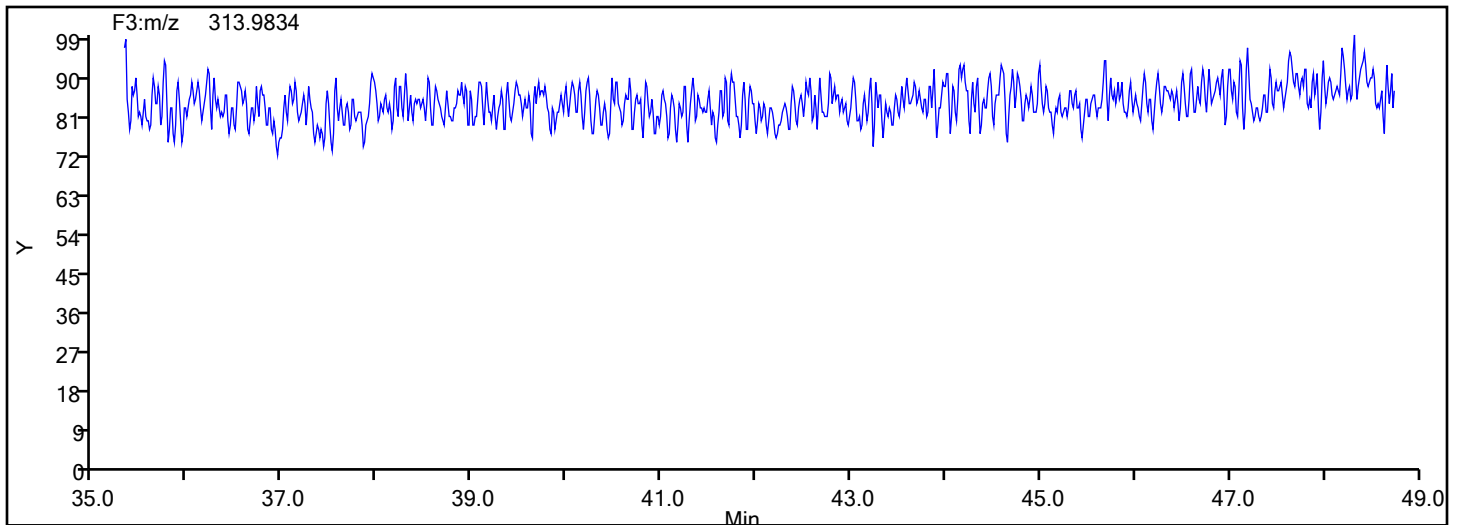
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

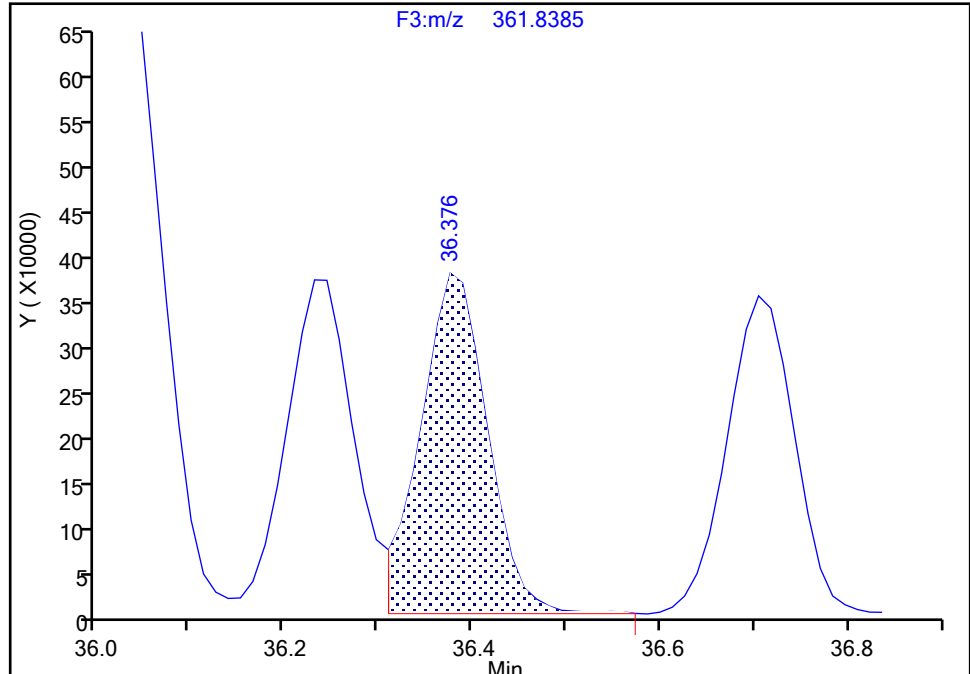
Detector F3(35.64 :49.10 )

**PCB-142, CAS: 41411-61-4**

Signal: 2

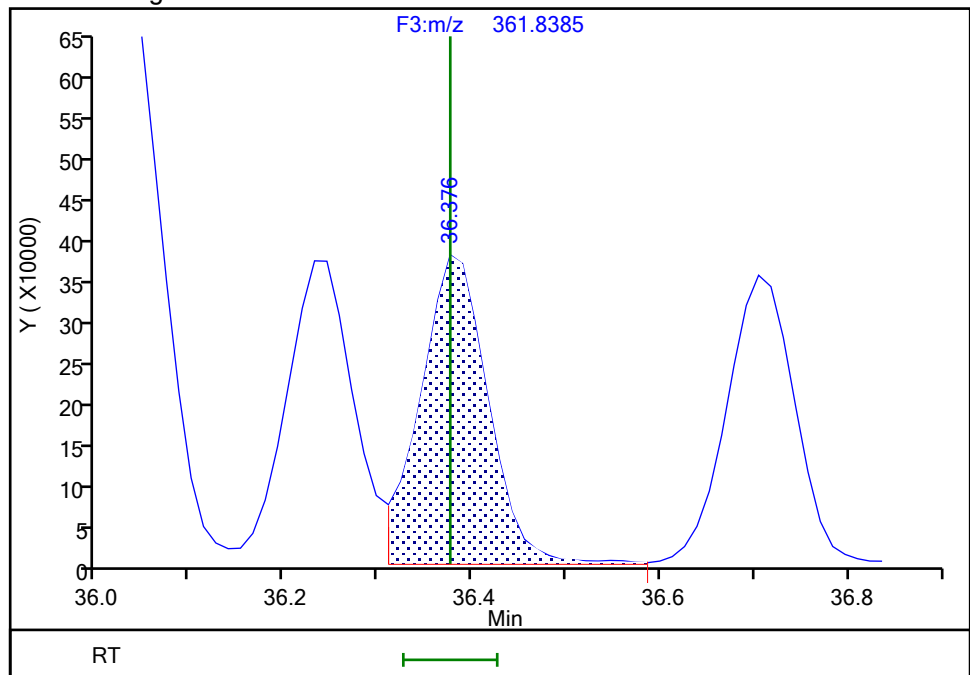
RT: 36.38  
Area: 1850179  
Amount: 49.830233  
Amount Units: pg/ul

## Processing Integration Results



RT: 36.38  
Area: 1852537  
Amount: 49.858334  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:34:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

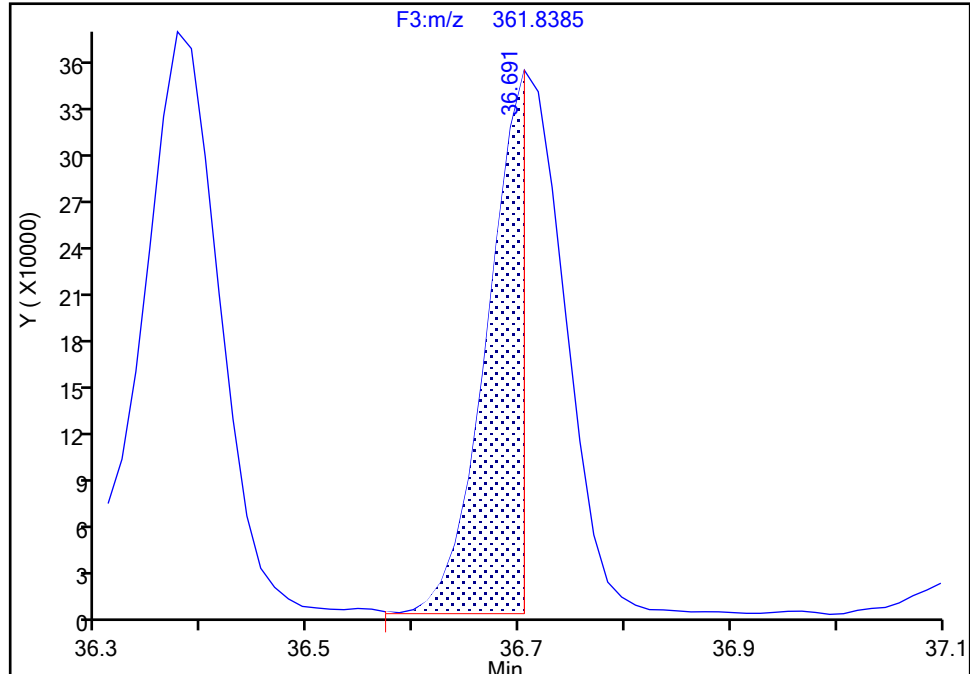
F3(35.64 :49.10 )

**PCB-132, CAS: 38380-05-1**

Signal: 2

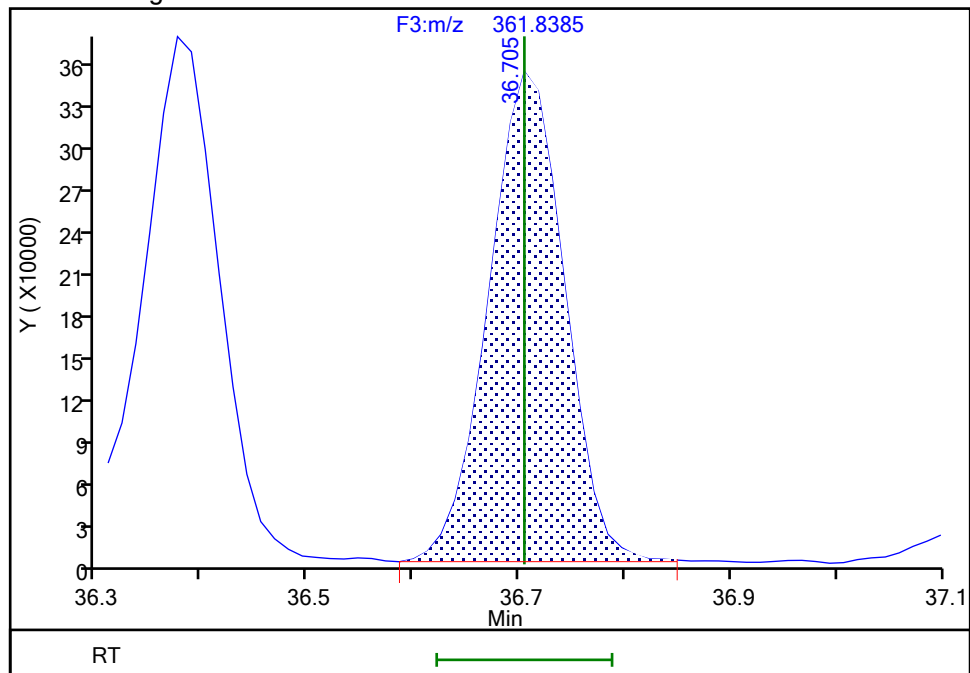
RT: 36.69  
Area: 824447  
Amount: 36.169351  
Amount Units: pg/ul

## Processing Integration Results



RT: 36.70  
Area: 1757101  
Amount: 47.310561  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:34:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

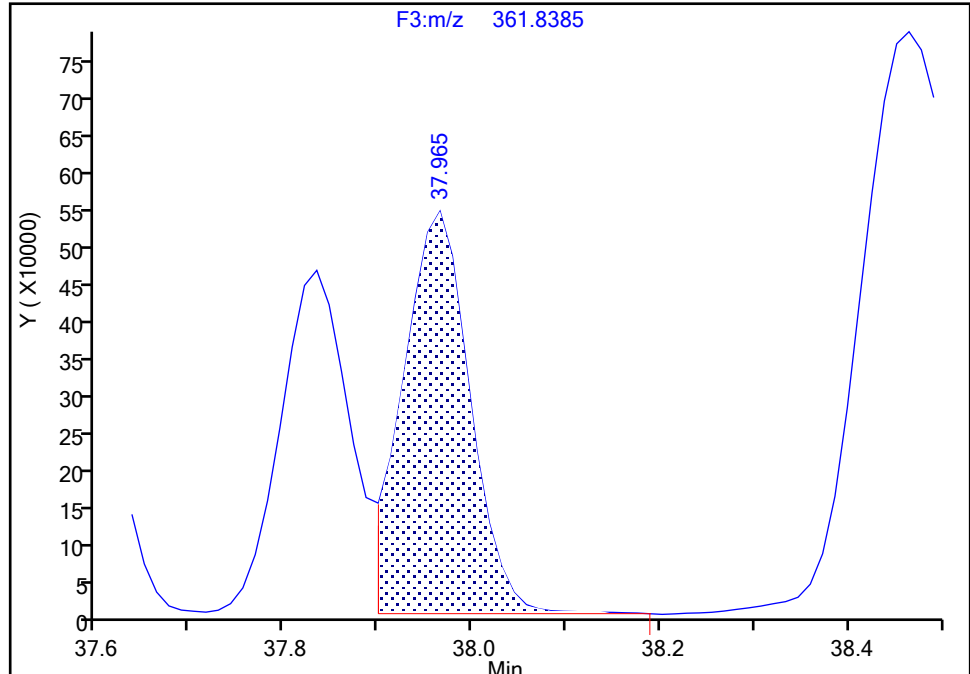
Detector F3(35.64 :49.10 )

**PCB-161, CAS: 74472-43-8**

Signal: 2

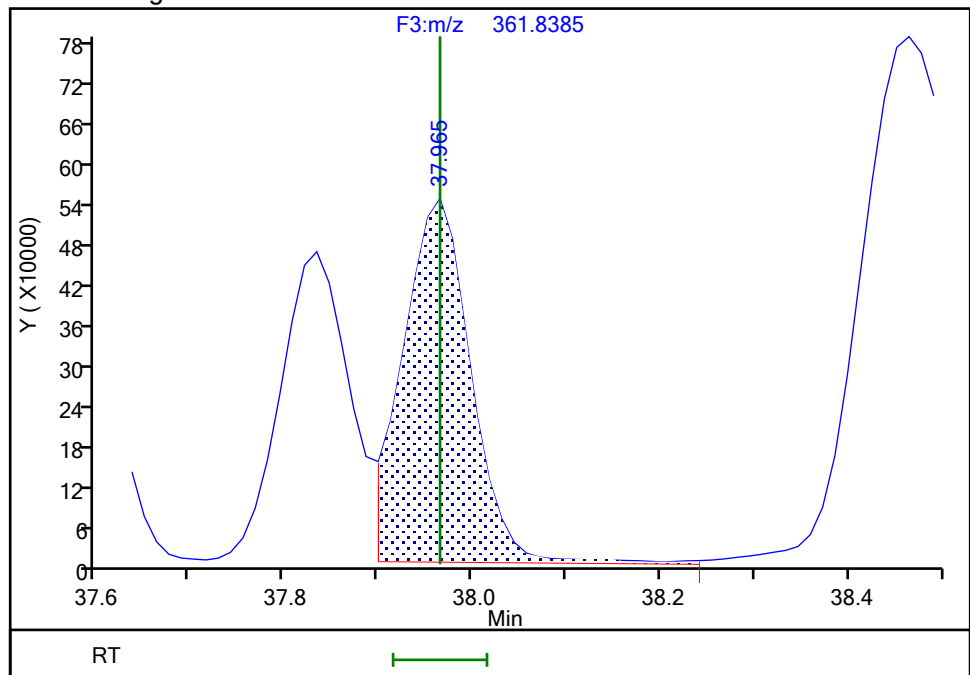
RT: 37.97  
Area: 2654376  
Amount: 47.338218  
Amount Units: pg/ul

## Processing Integration Results



RT: 37.97  
Area: 2679114  
Amount: 47.534291  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:34:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

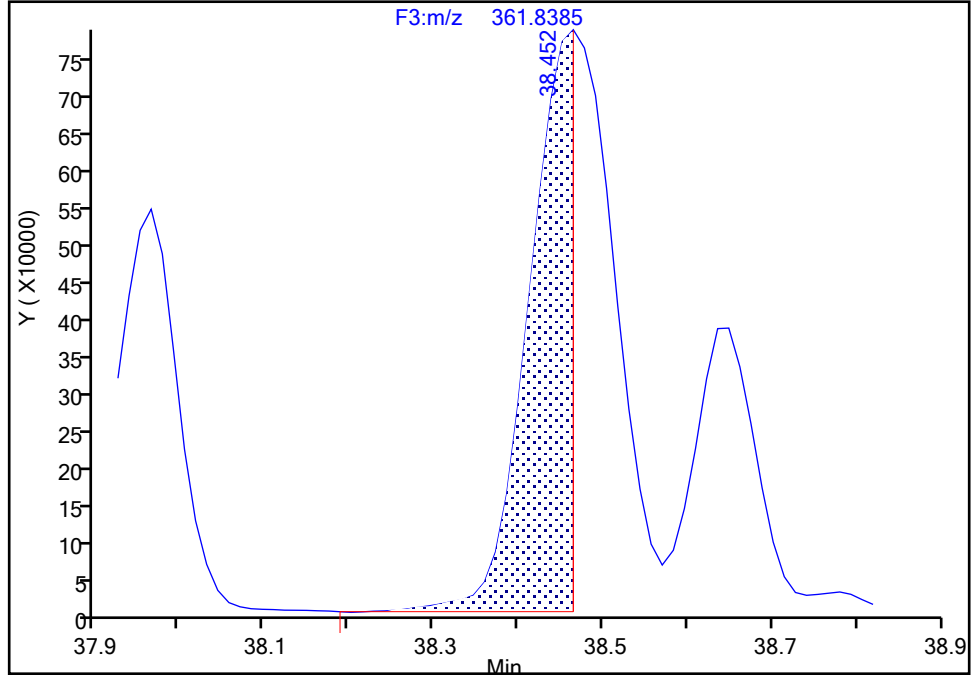
F3(35.64 :49.10 )

**PCB-153/168, CAS: STL01822**

Signal: 2

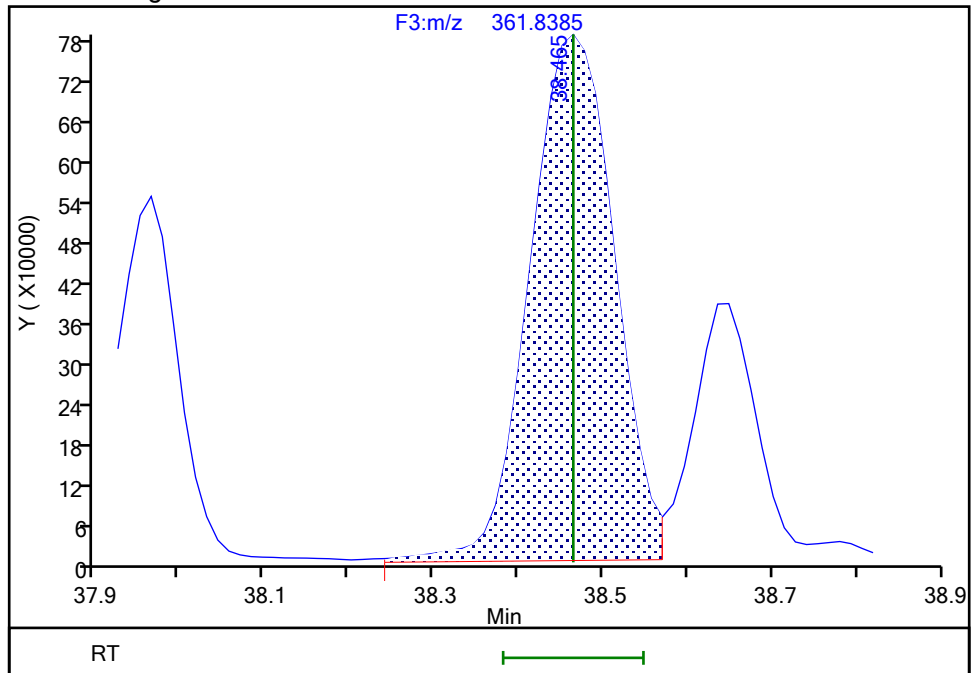
RT: 38.45  
Area: 2728014  
Amount: 77.313795  
Amount Units: pg/ul

## Processing Integration Results



RT: 38.46  
Area: 5402843  
Amount: 99.192706  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:34:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

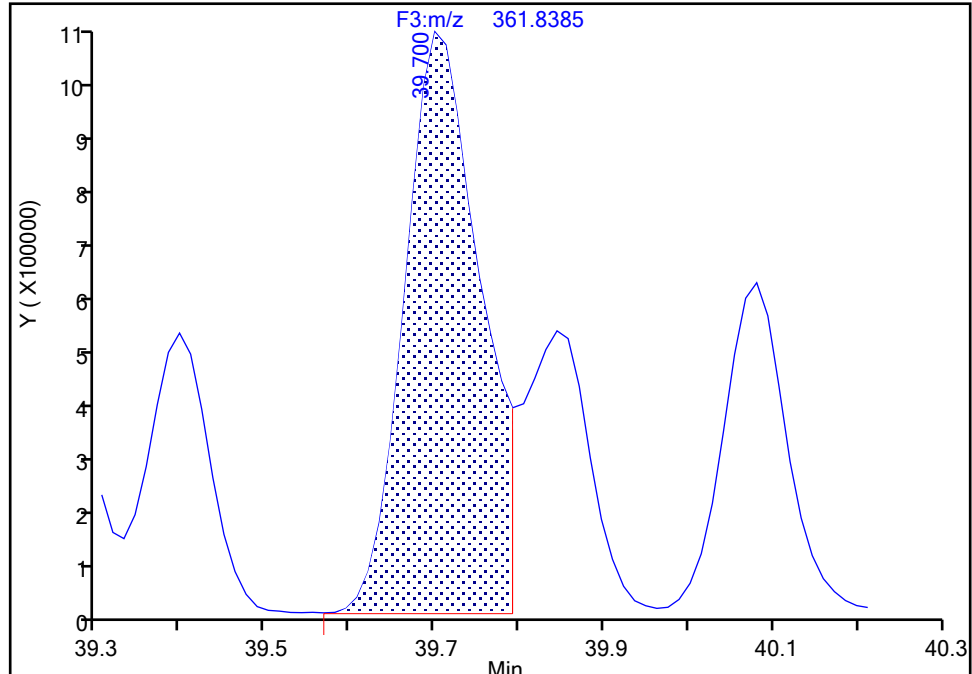
Detector F3(35.64 :49.10 )

**PCB-129/138/160/163, CAS: STL02296**

Signal: 2

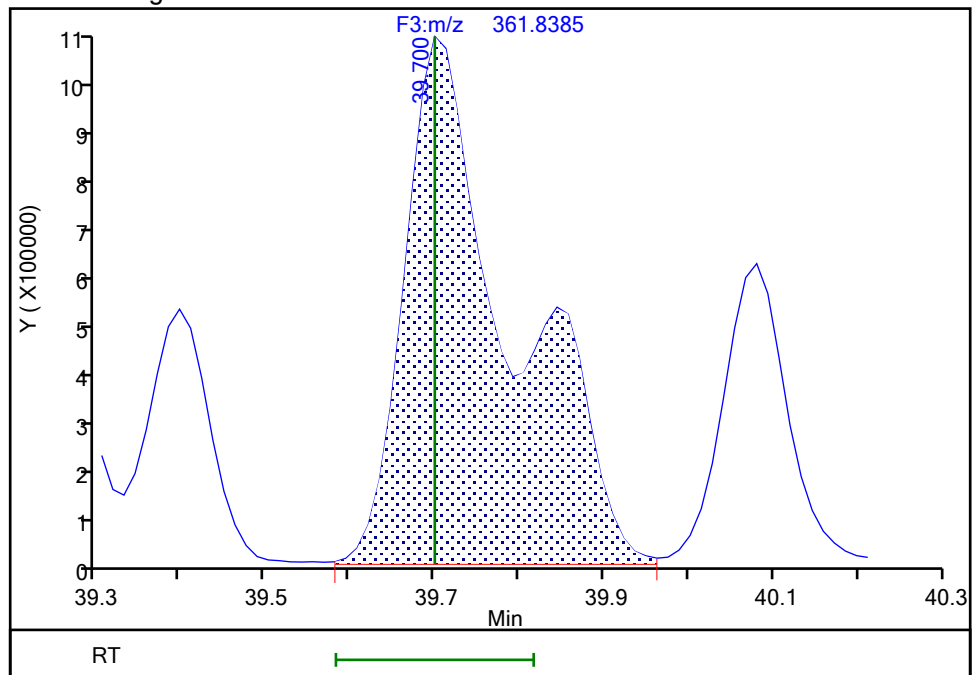
RT: 39.70  
Area: 6284888  
Amount: 133.4224  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.70  
Area: 8957824  
Amount: 190.4951  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:34:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

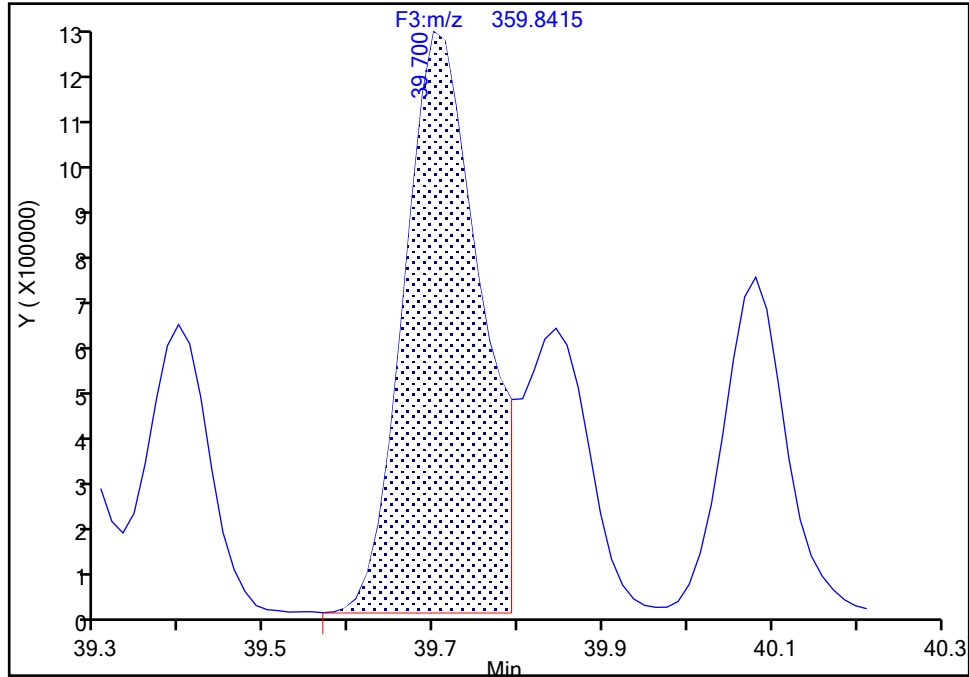
Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

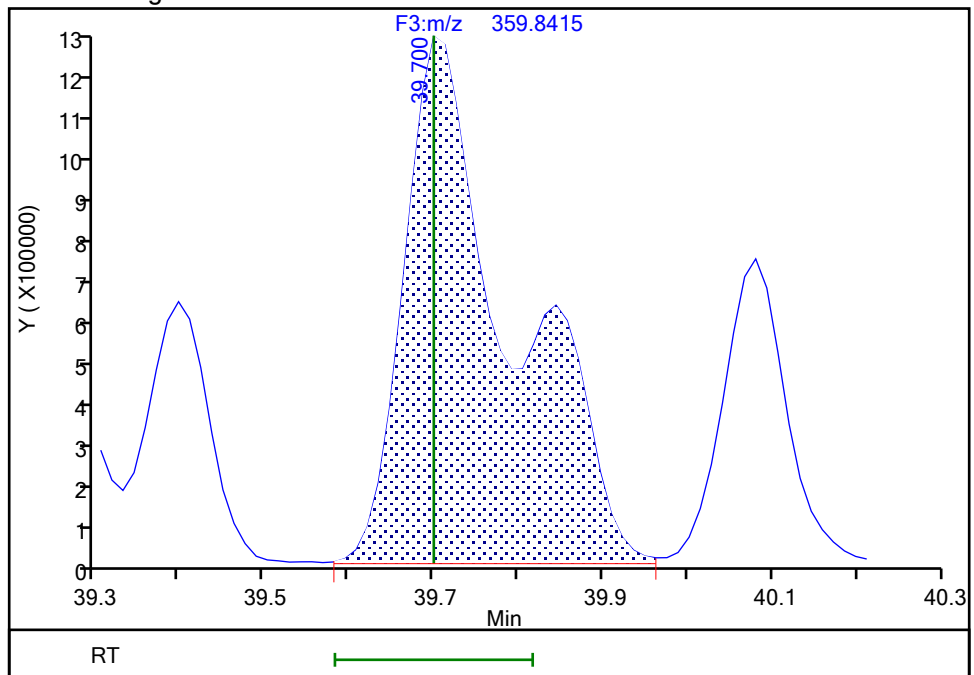
RT: 39.70  
Area: 7829100  
Amount: 133.4224  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.70  
Area: 11193553  
Amount: 190.4951  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:34:28 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

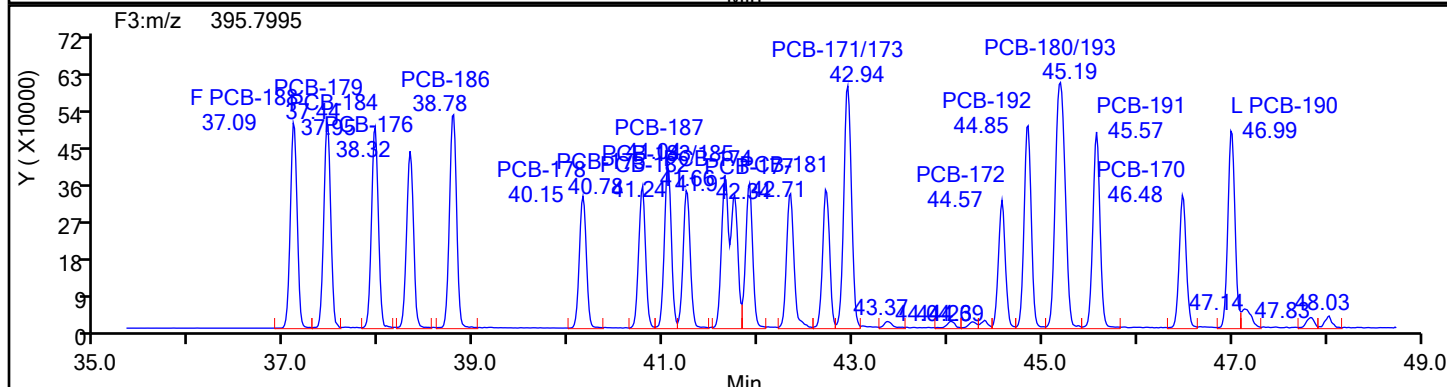
Limit Group: HR - EPA 23 PCB ICAL

Sample Line#: 1

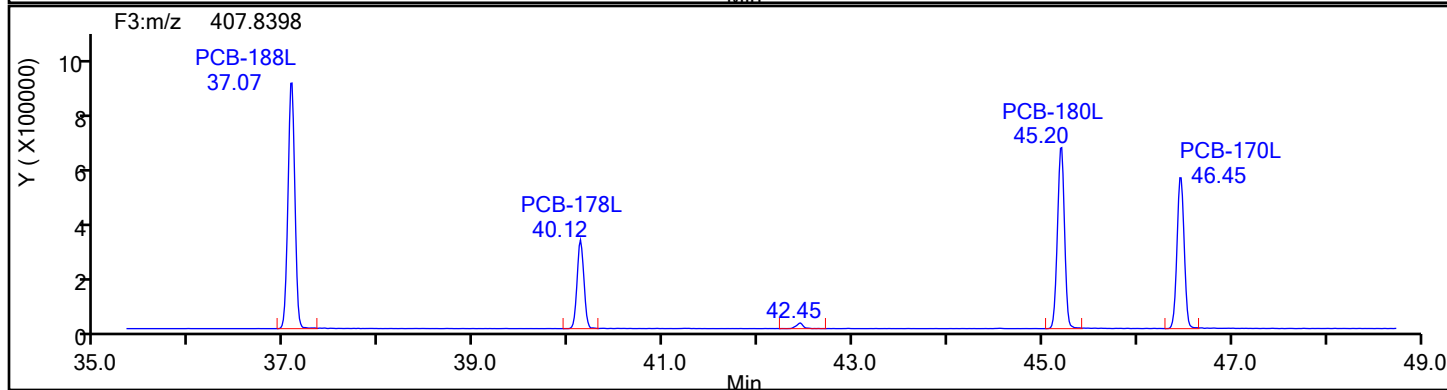
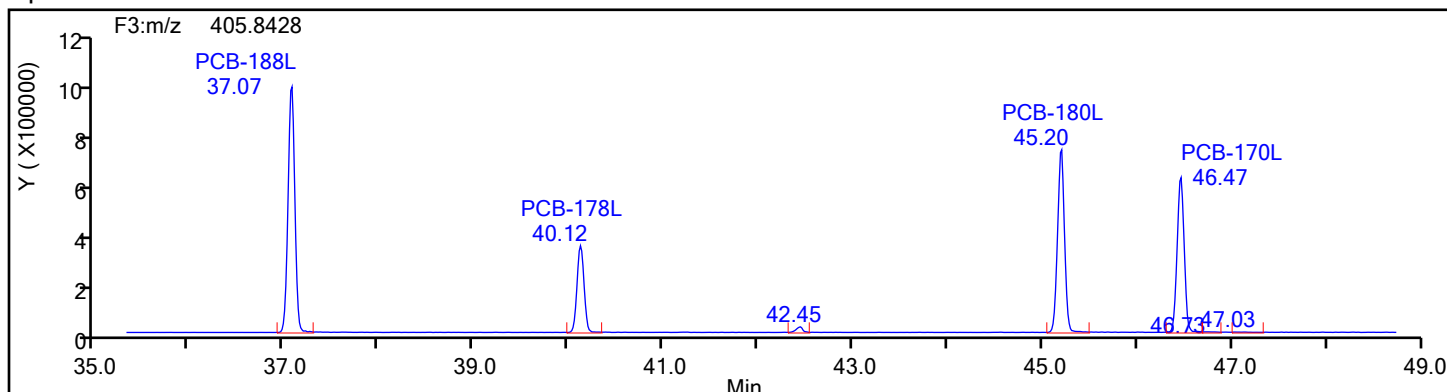
Sample Line#: 1

Column Dia: 0.25 mm

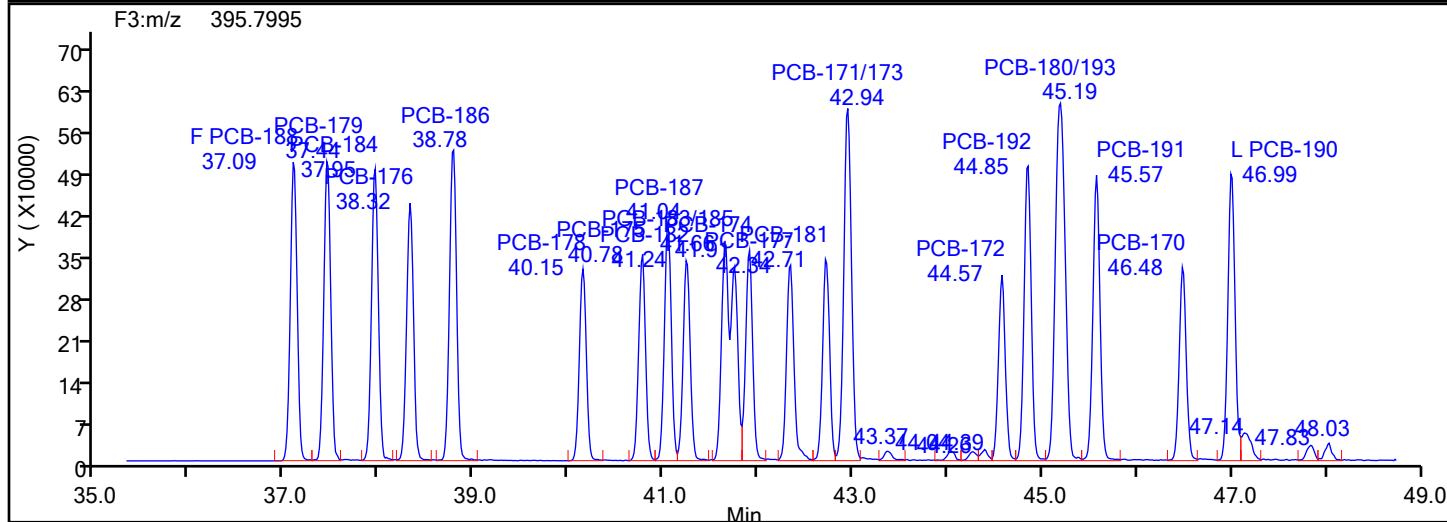
HpPCB F3



HpPCB F3 Standards



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d		
Injection Date:	28-Jun-2024 23:29:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	88242	Sample Line#:	1
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HpPCB F3			



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

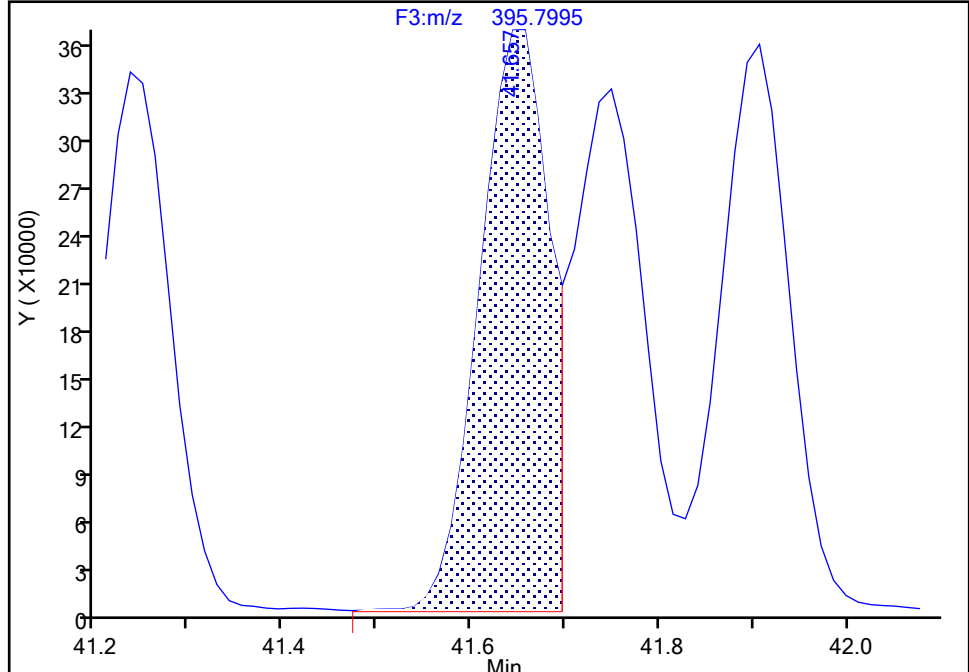
F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 2

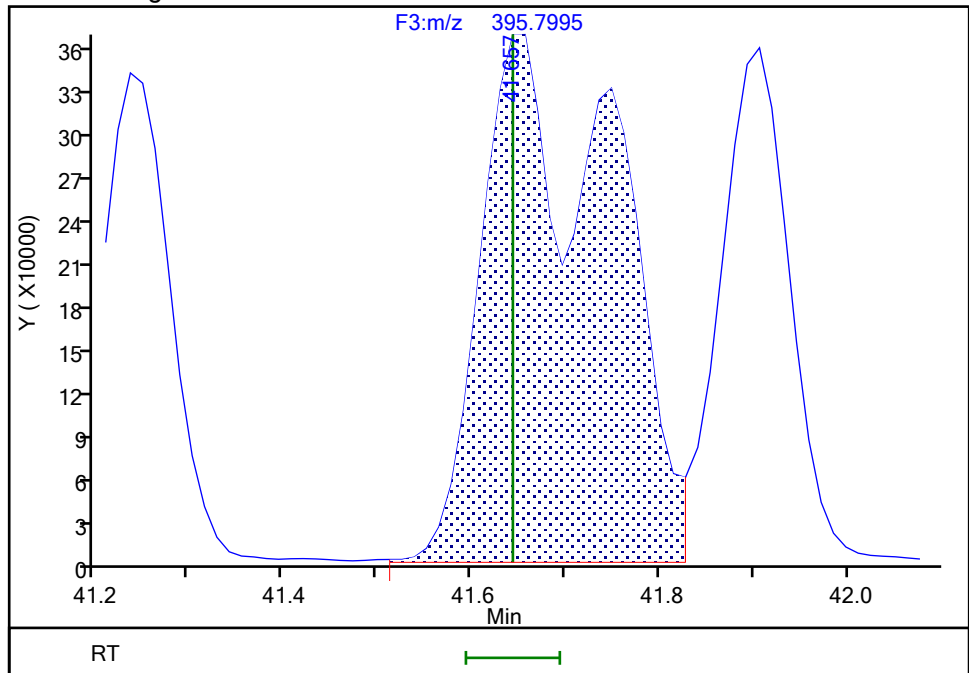
RT: 41.66  
Area: 1845832  
Amount: 50.995913  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.66  
Area: 3502261  
Amount: 97.416084  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:34:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

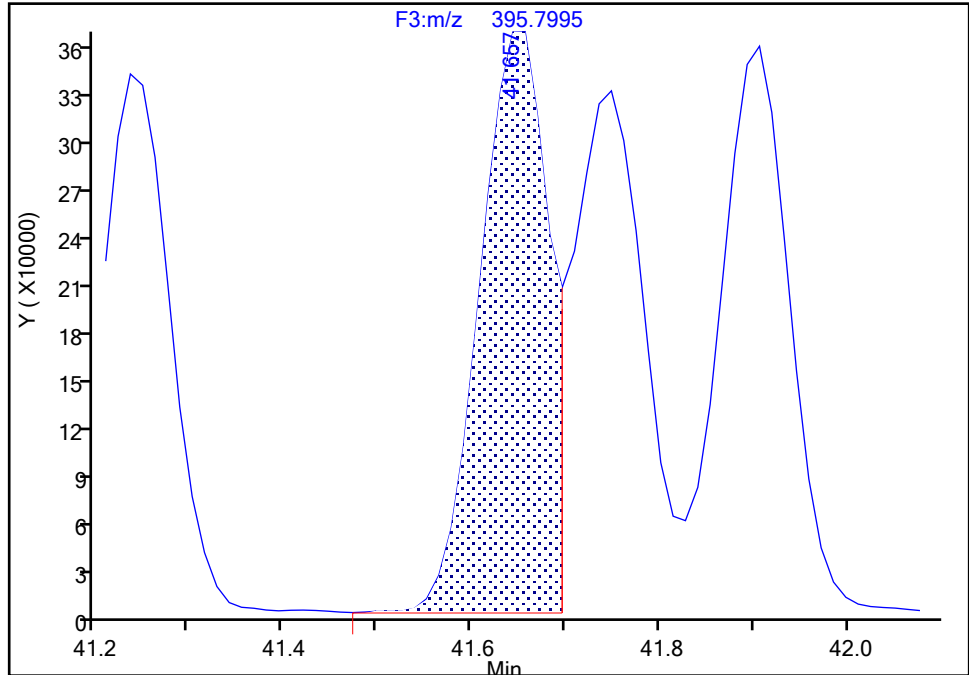
Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 2

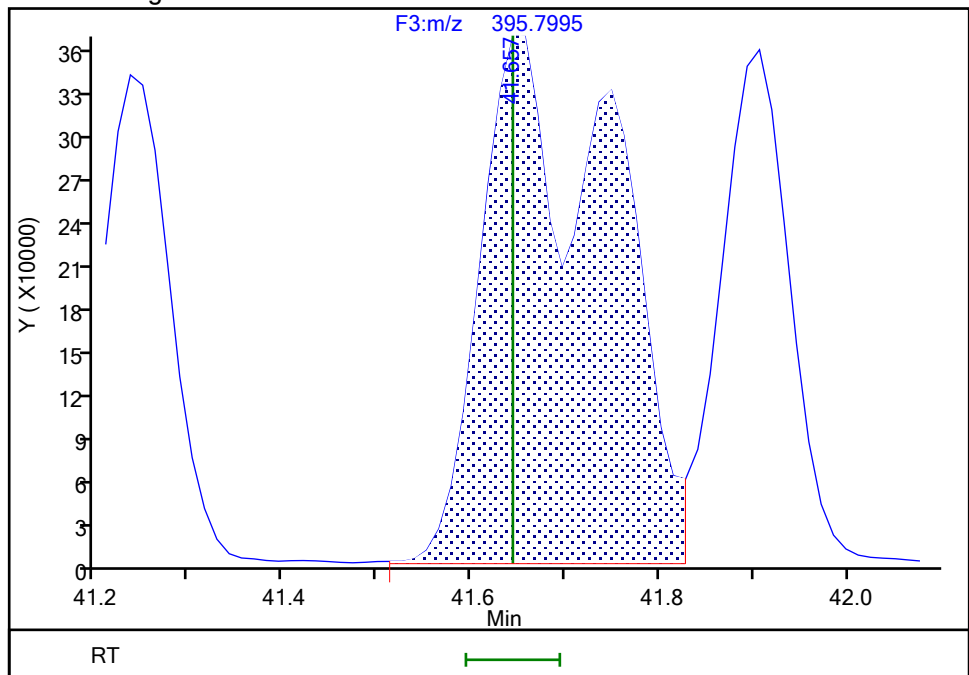
RT: 41.66  
Area: 1845832  
Amount: 50.995913  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.66  
Area: 3502261  
Amount: 97.416084  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:35:13 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Page 3018 of 3373

BASFHWC-F-2024-05142

9/6/2024  
3:53:39 PM



## Eurofins Knoxville

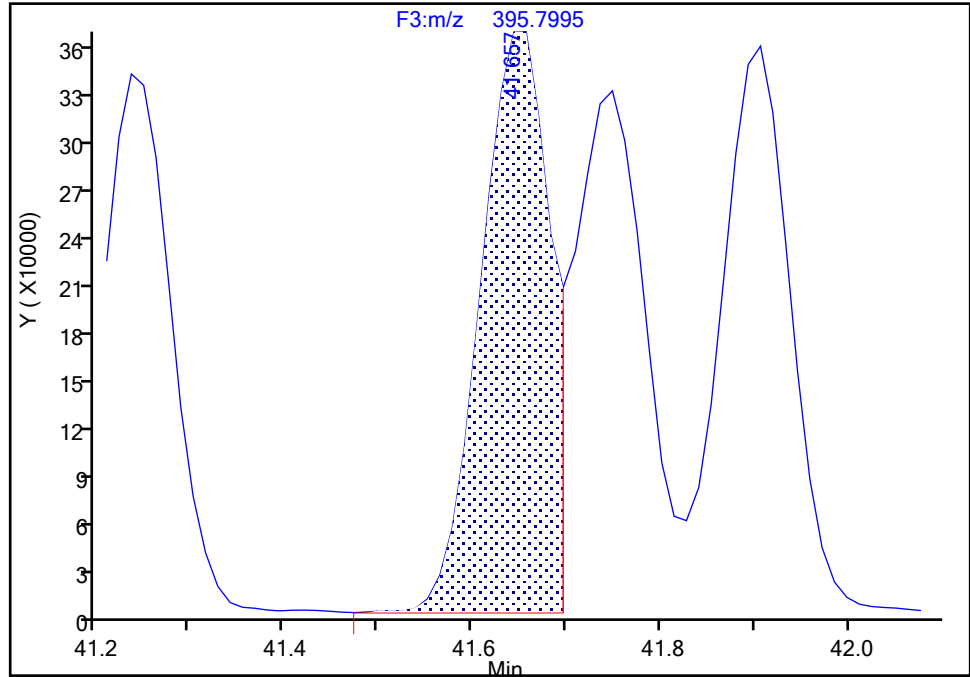
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Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 3

RT: 41.64  
Area: 3805517  
Amount: 50.995913  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 41.64  
Area: 7269574  
Amount: 97.416084  
Amount Units: pg/ul

Reviewer: V4XA, 29-Jun-2024 00:35:13 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

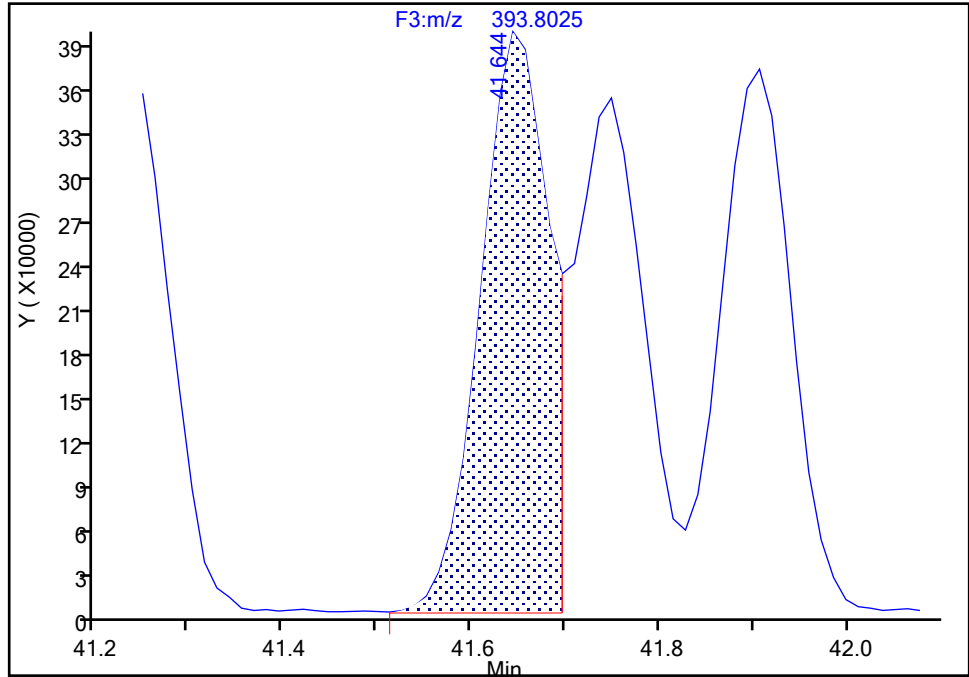
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Injection Date: 28-Jun-2024 23:29:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 1

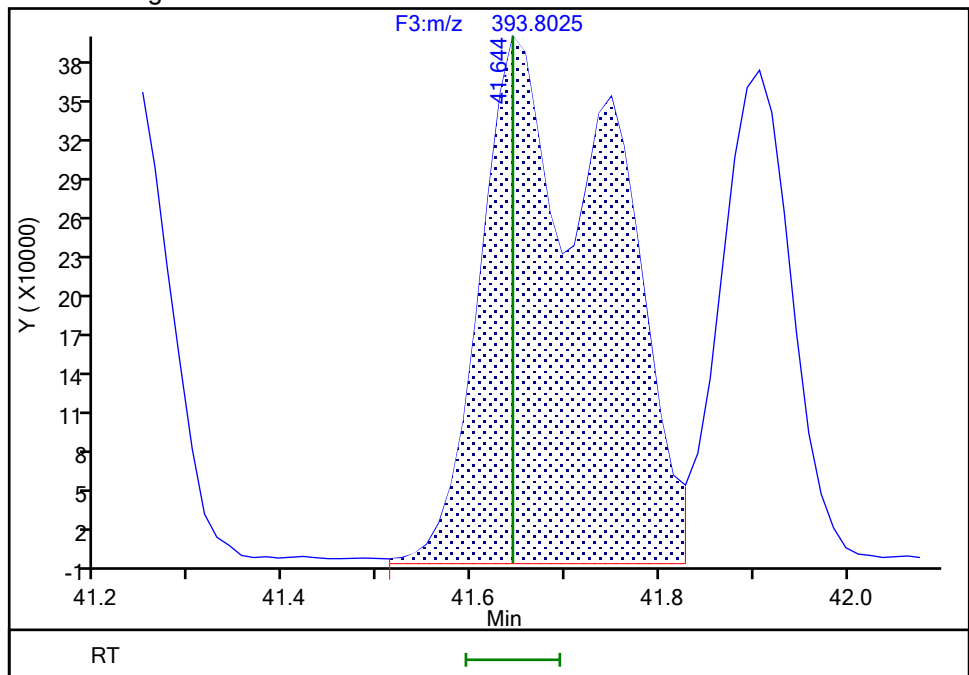
RT: 41.64  
Area: 1959685  
Amount: 50.995913  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.64  
Area: 3767313  
Amount: 97.416084  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 29-Jun-2024 00:35:16 -04:00:00 (UTC)

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline

## Eurofins Knoxville

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Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

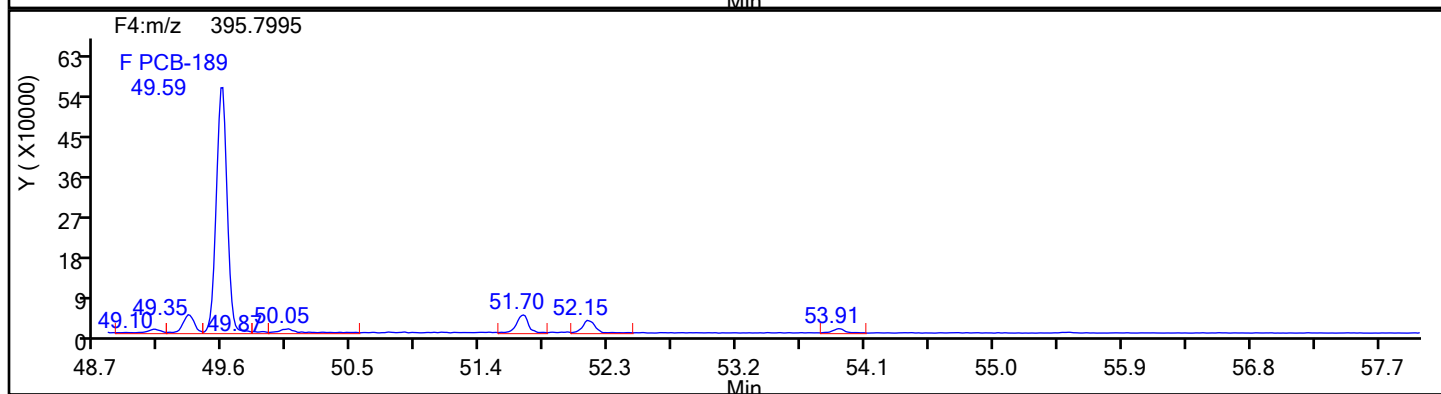
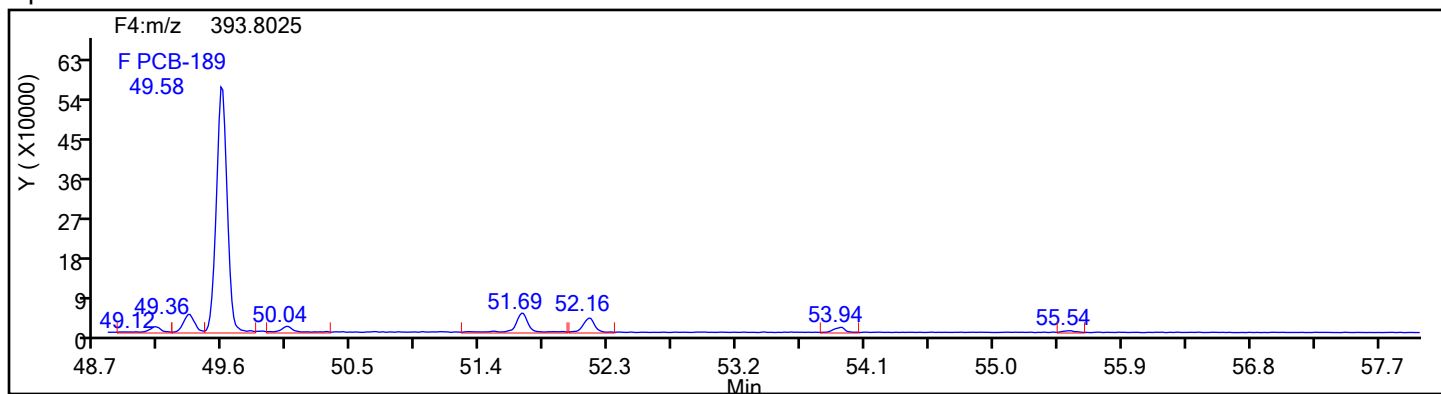
Worklist#: 88242

Sample Line#: 1

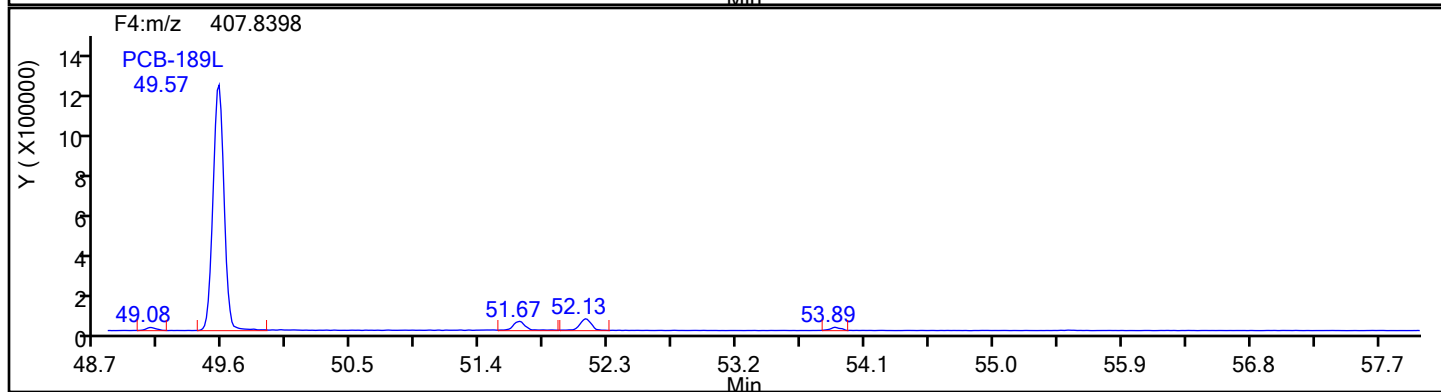
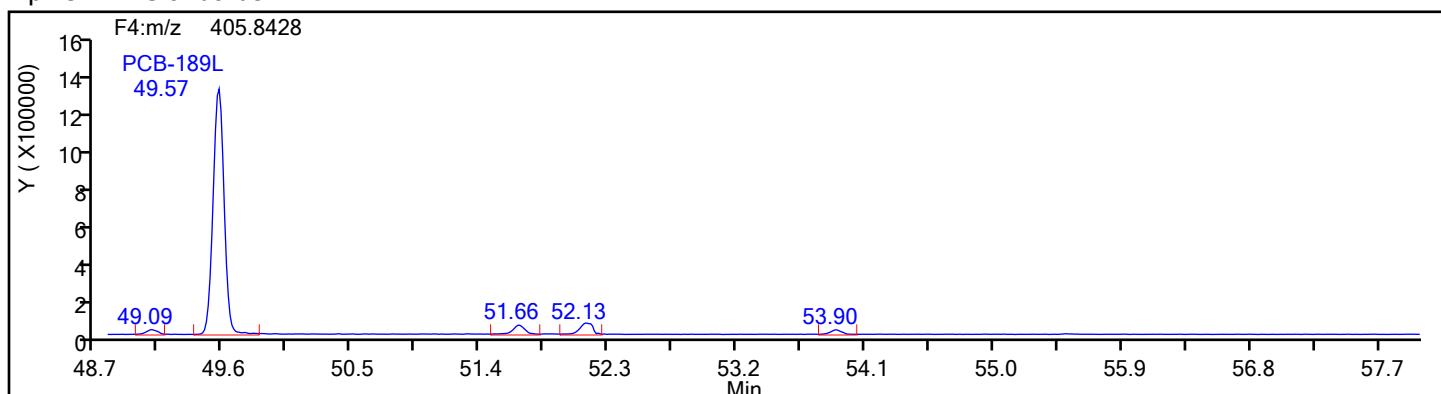
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

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Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

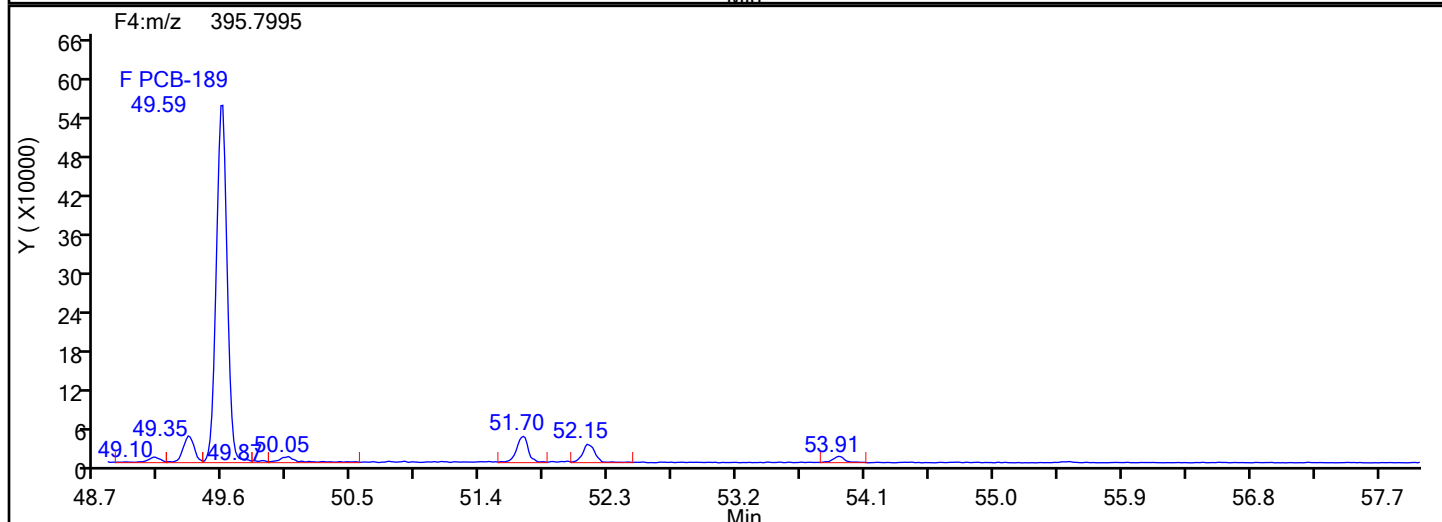
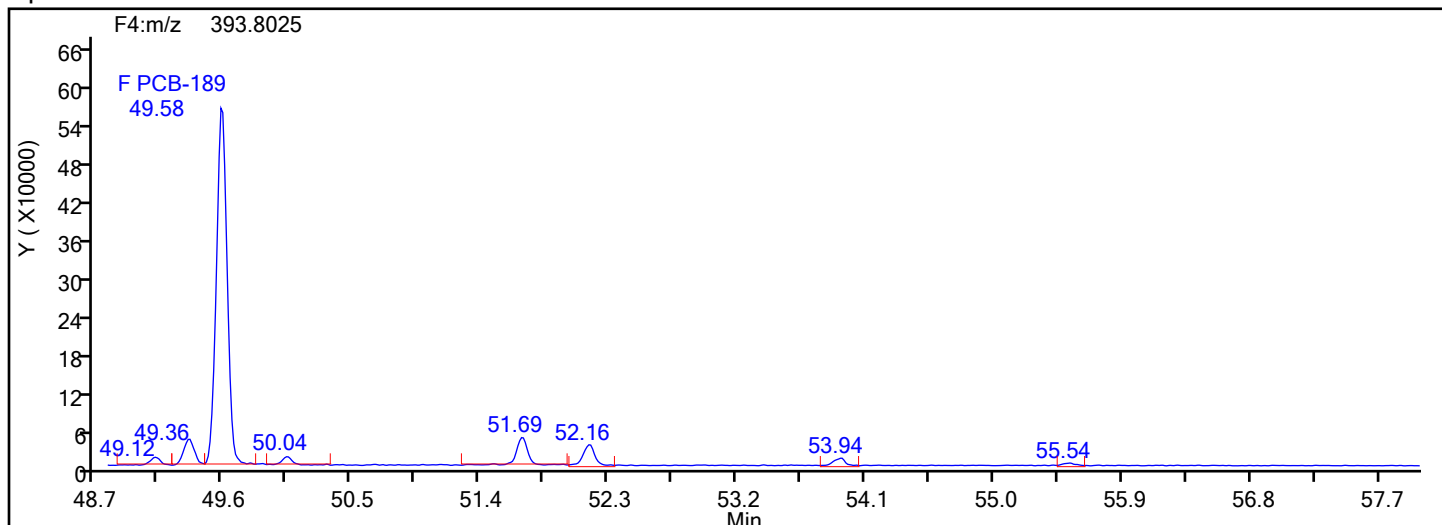
Worklist#: 88242

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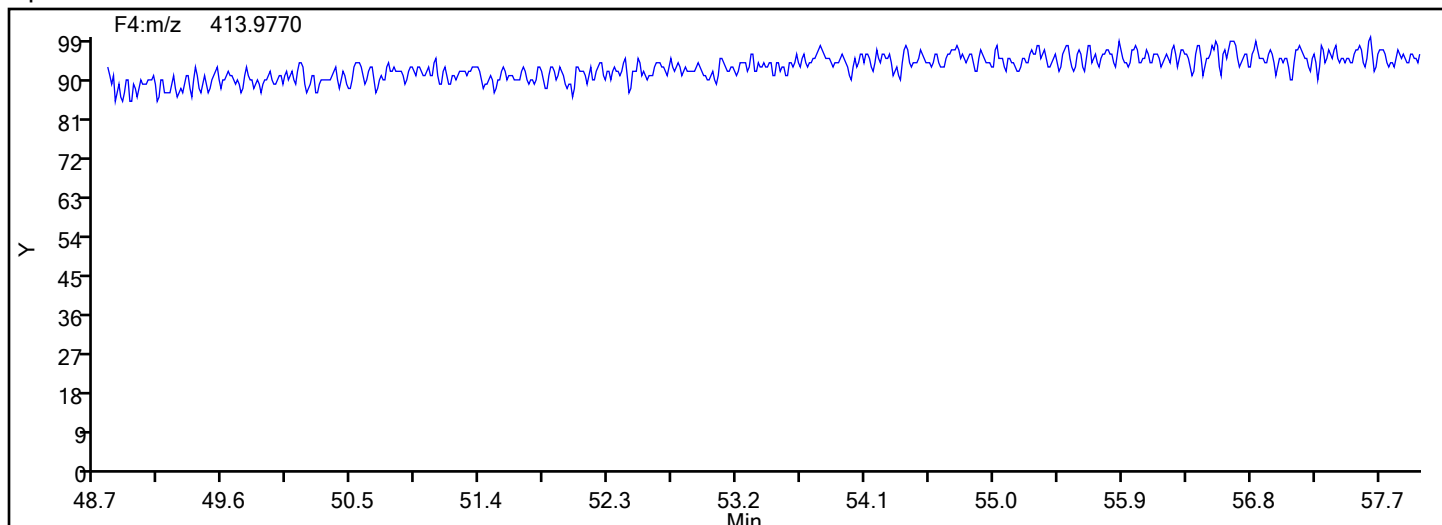
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



## Eurofins Knoxville

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Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

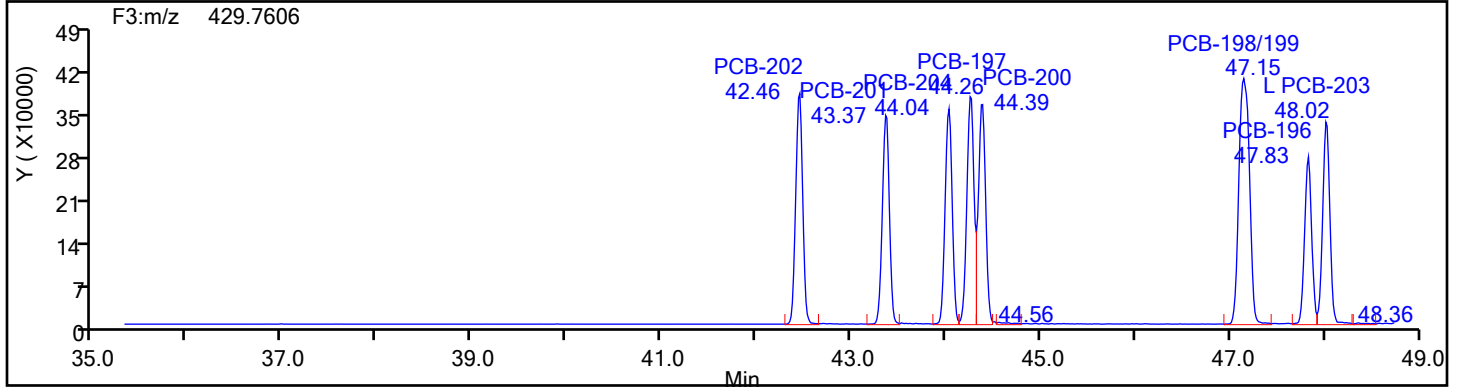
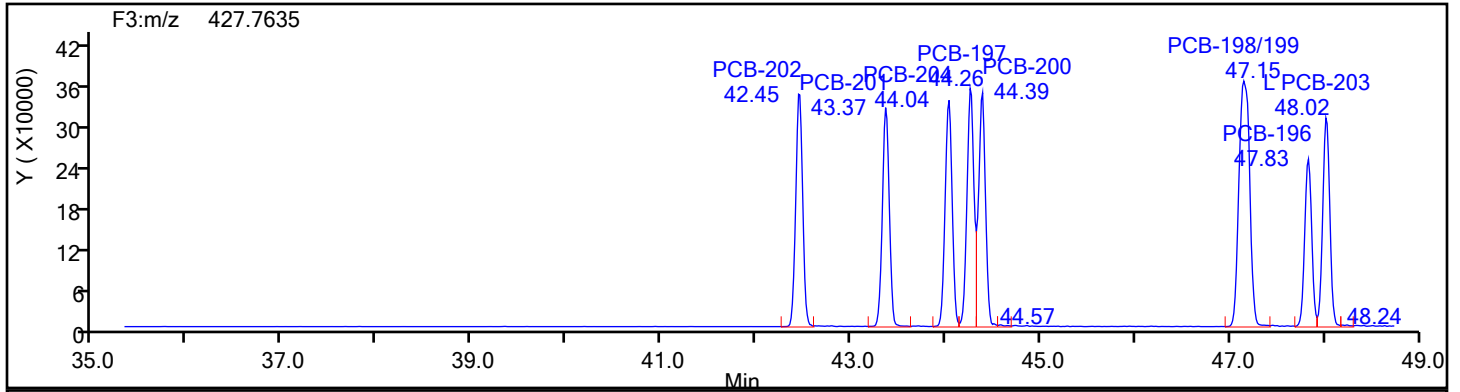
Worklist#: 88242

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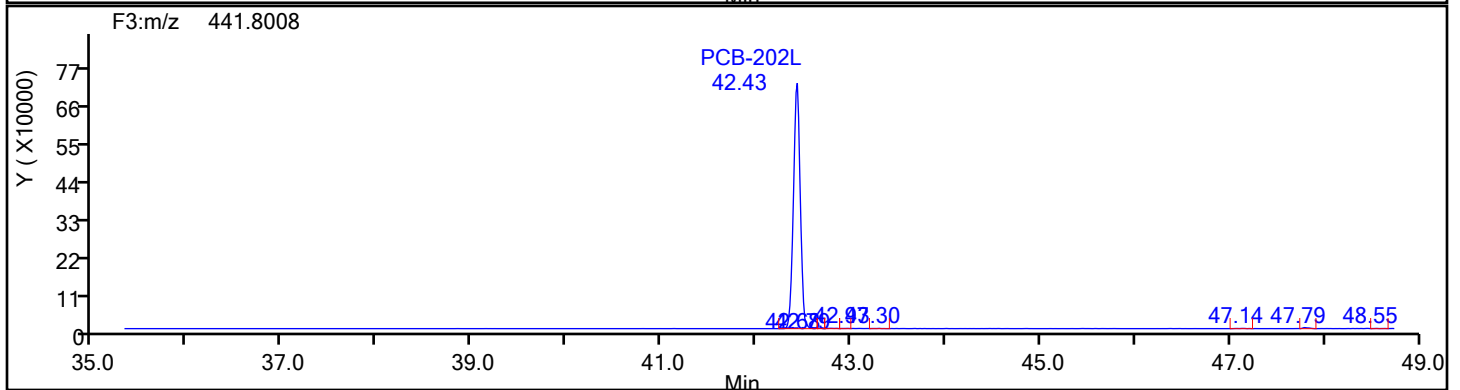
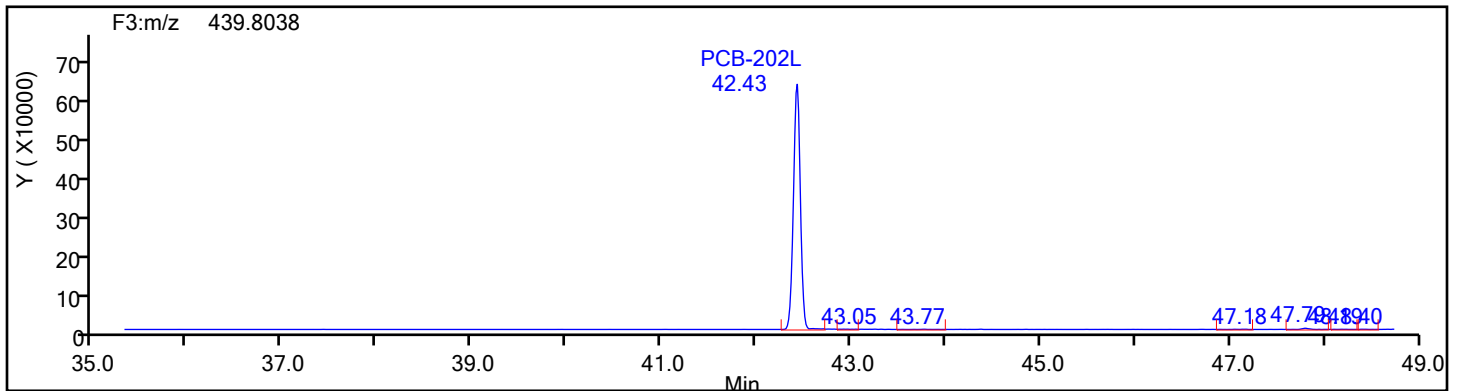
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



## OcPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

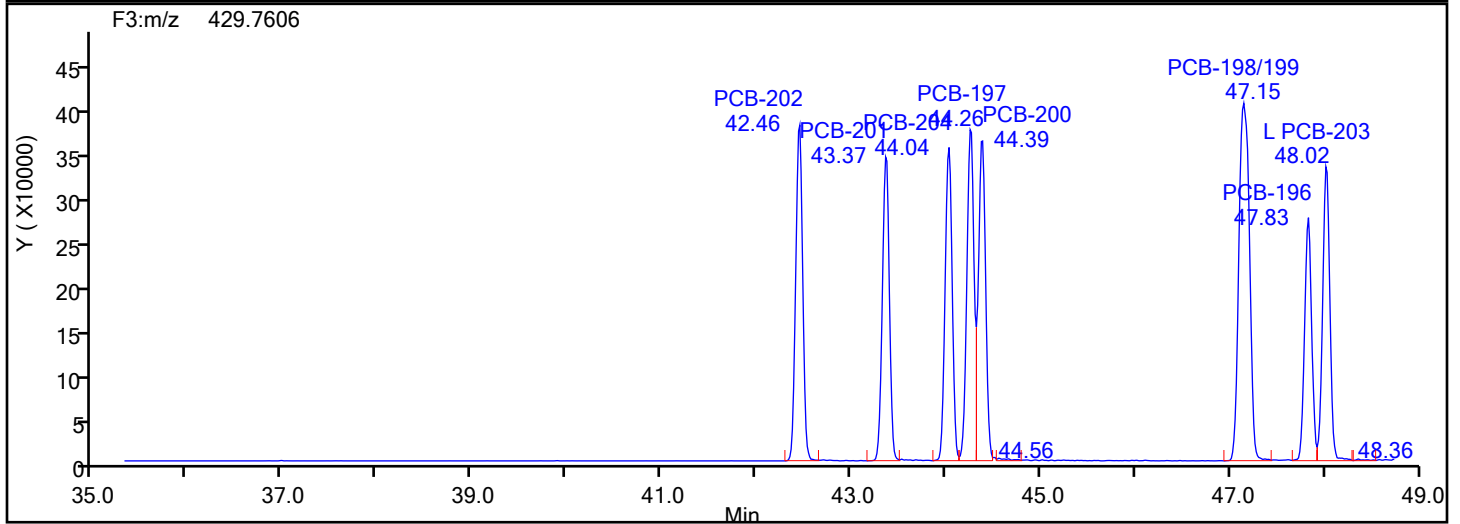
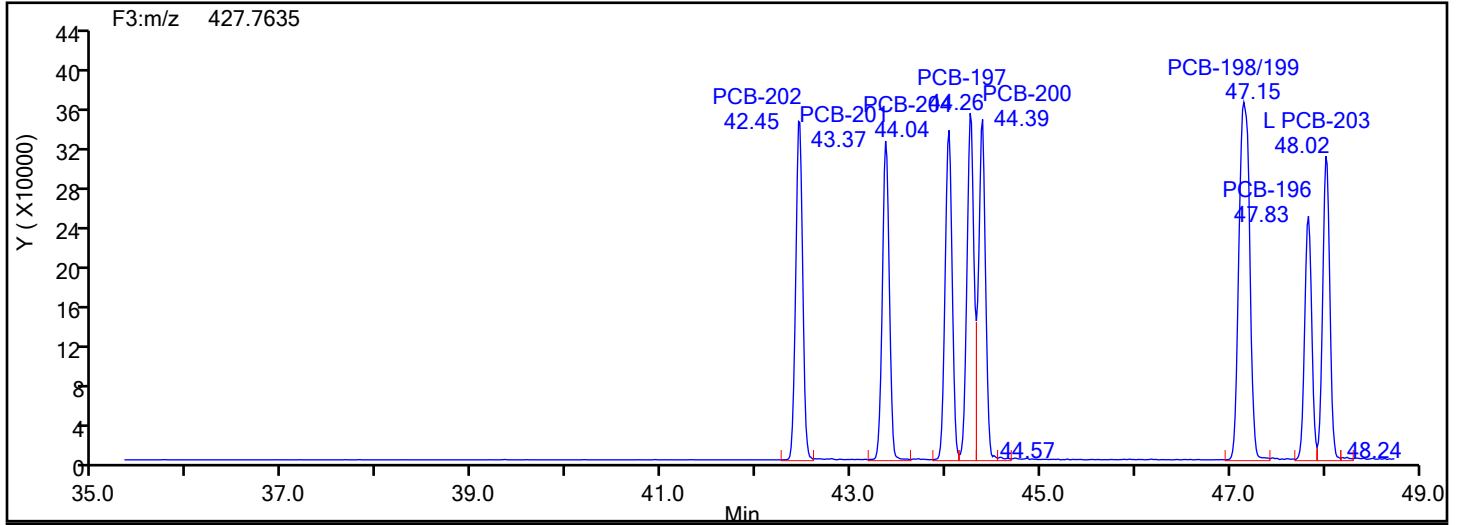
Worklist#: 88242

Sample Line#: 1

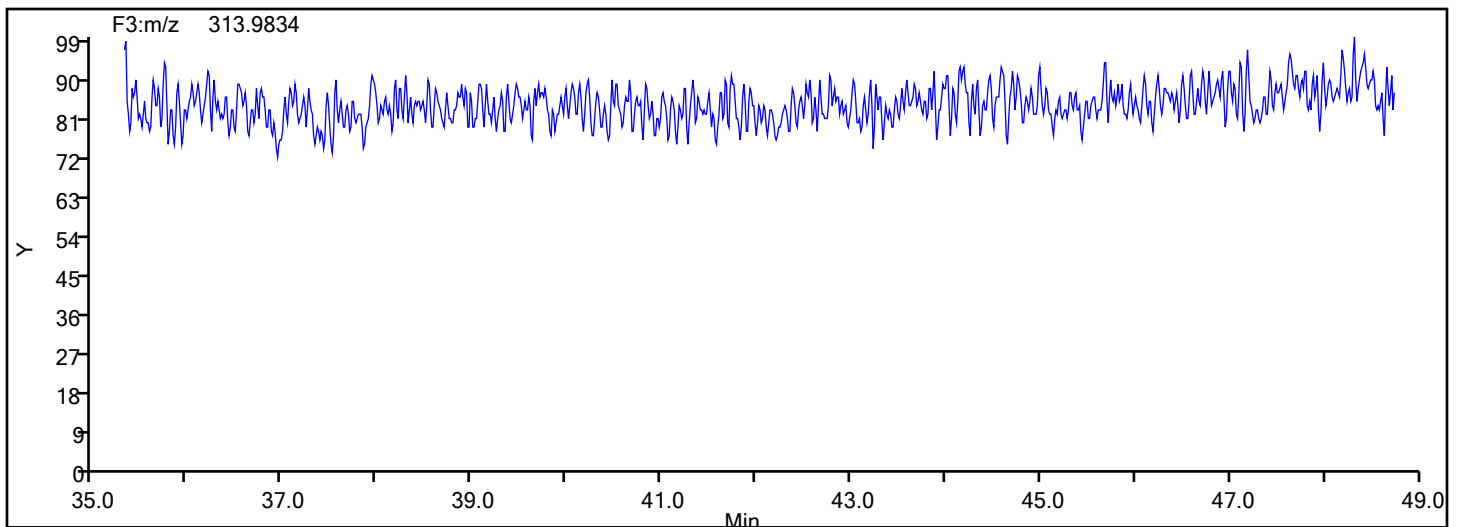
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



## OcPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

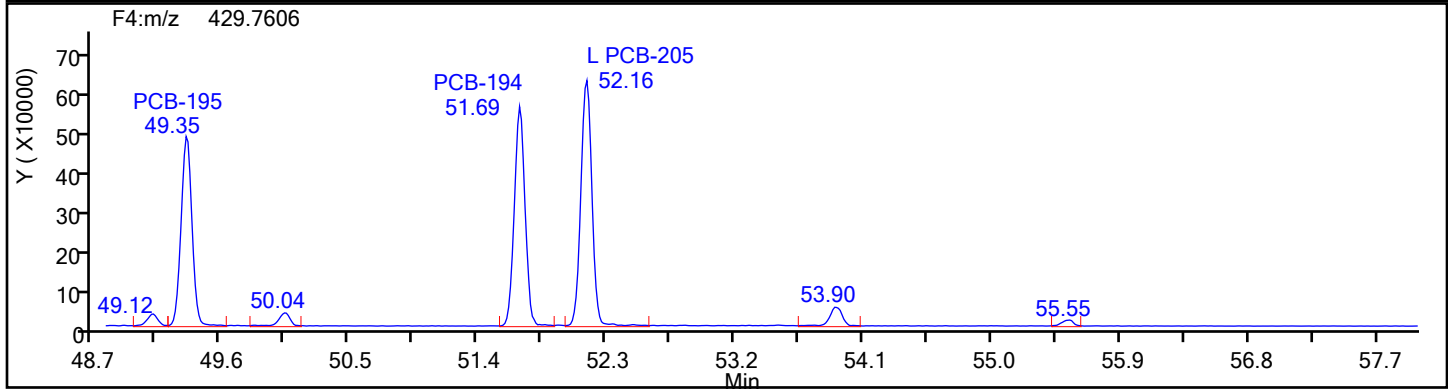
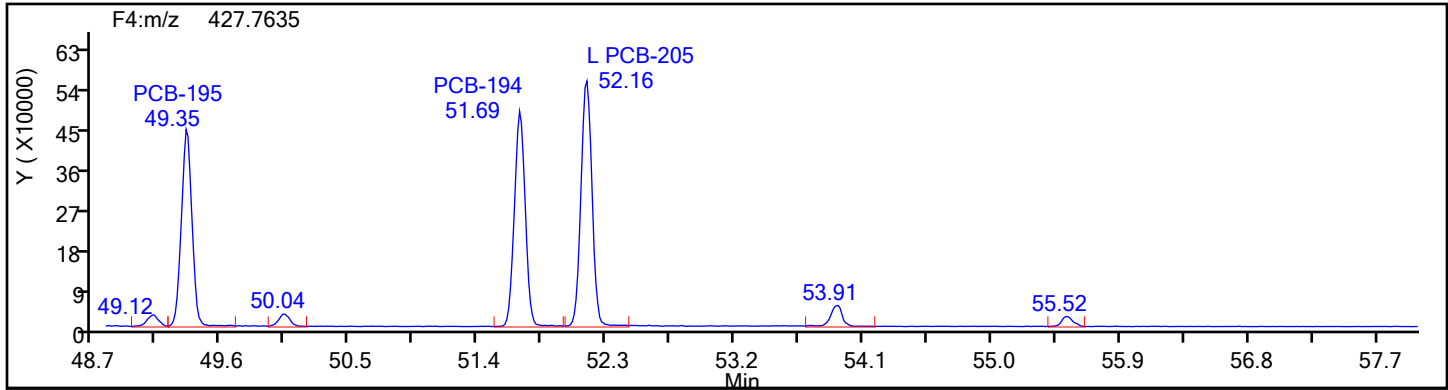
Worklist#: 88242

Sample Line#: 1

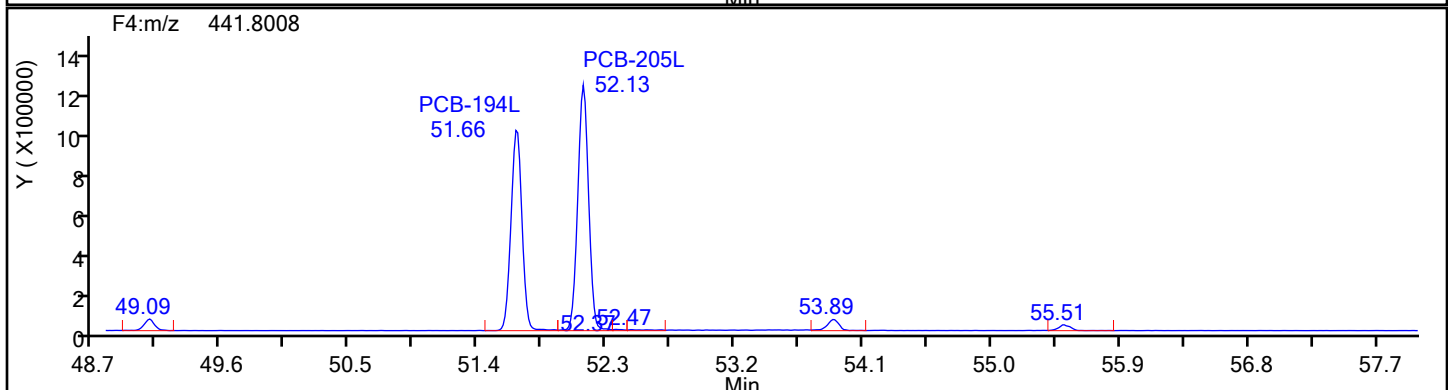
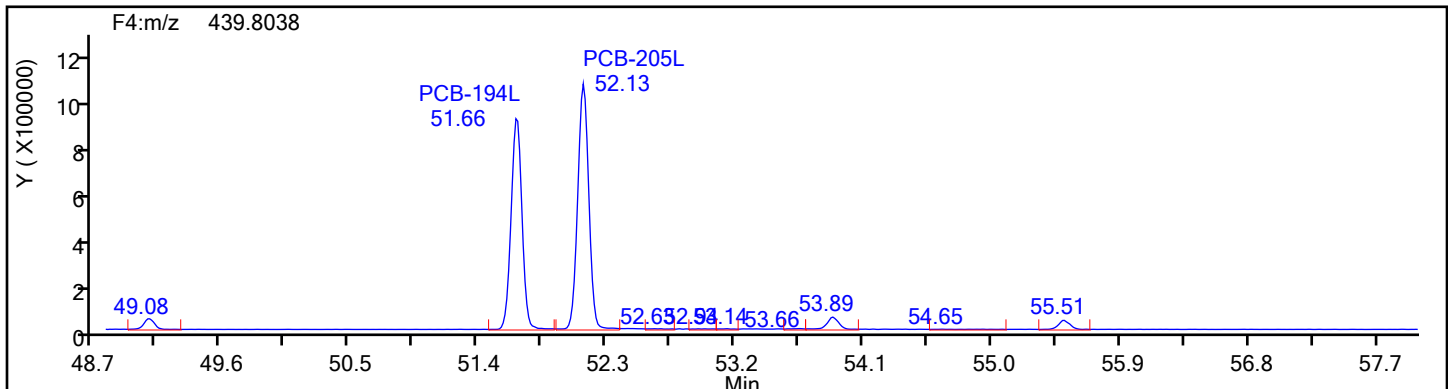
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

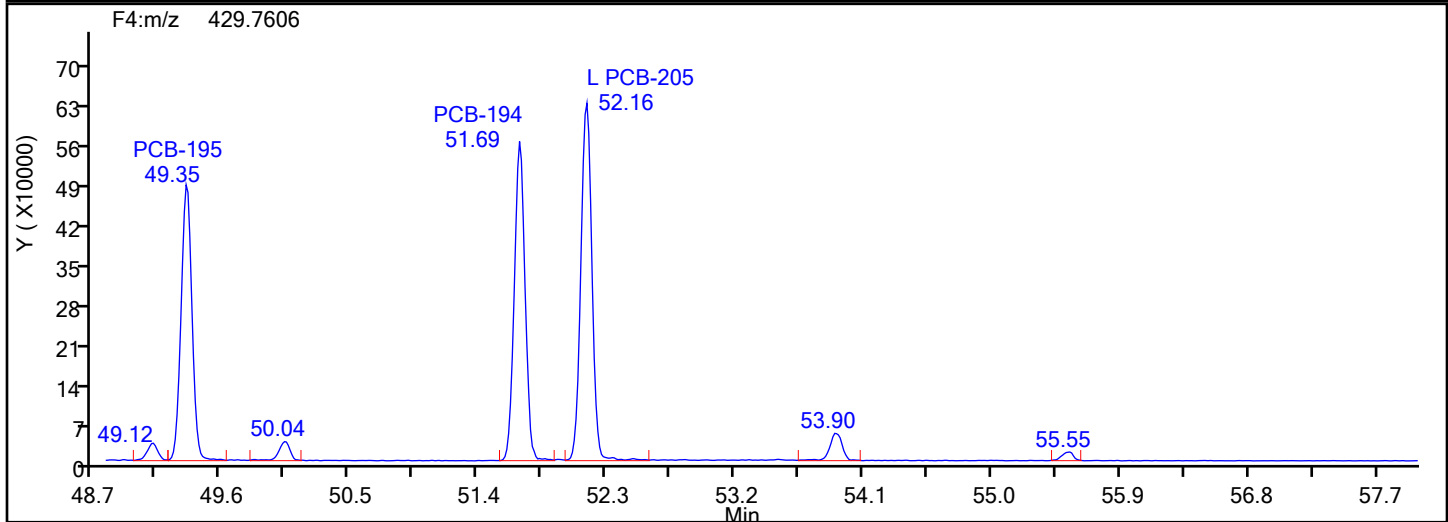
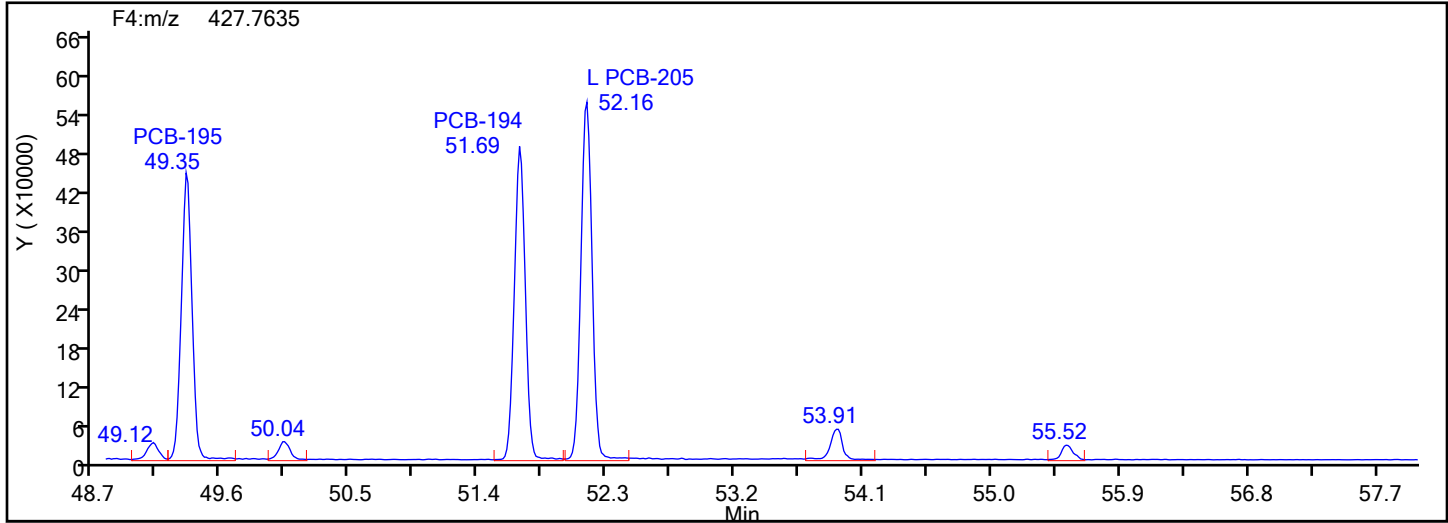
Worklist#: 88242

Sample Line#: 1

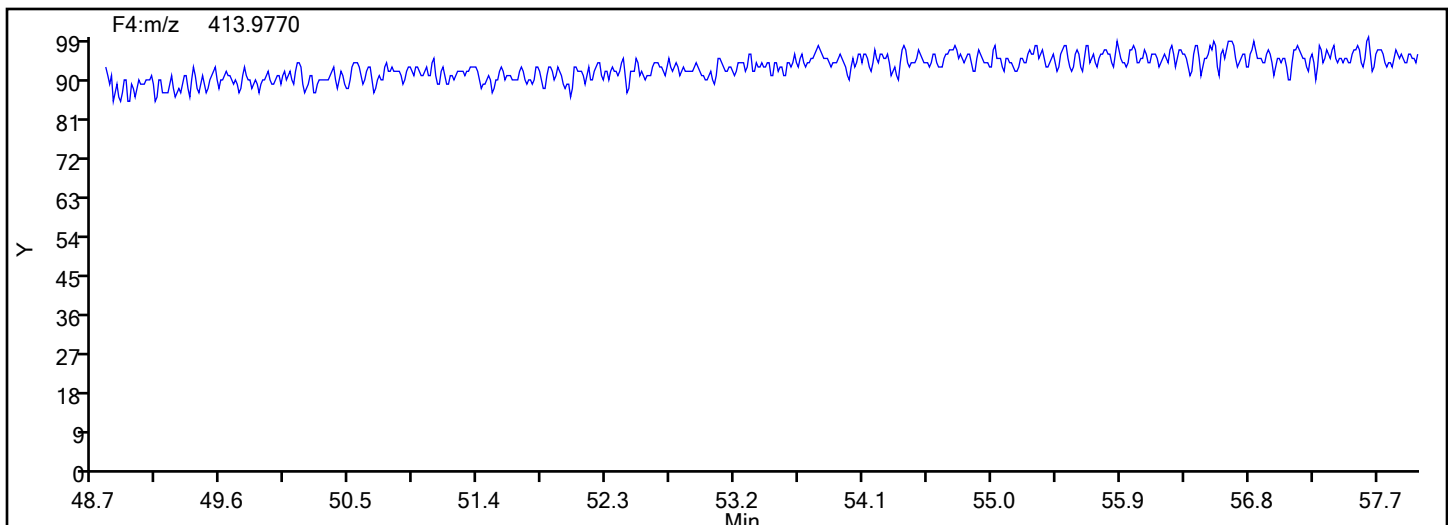
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



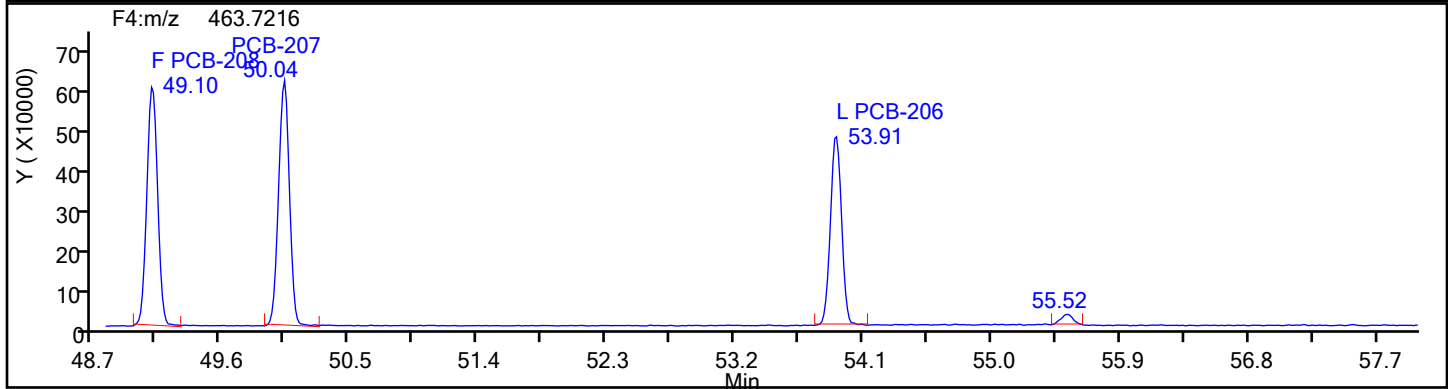
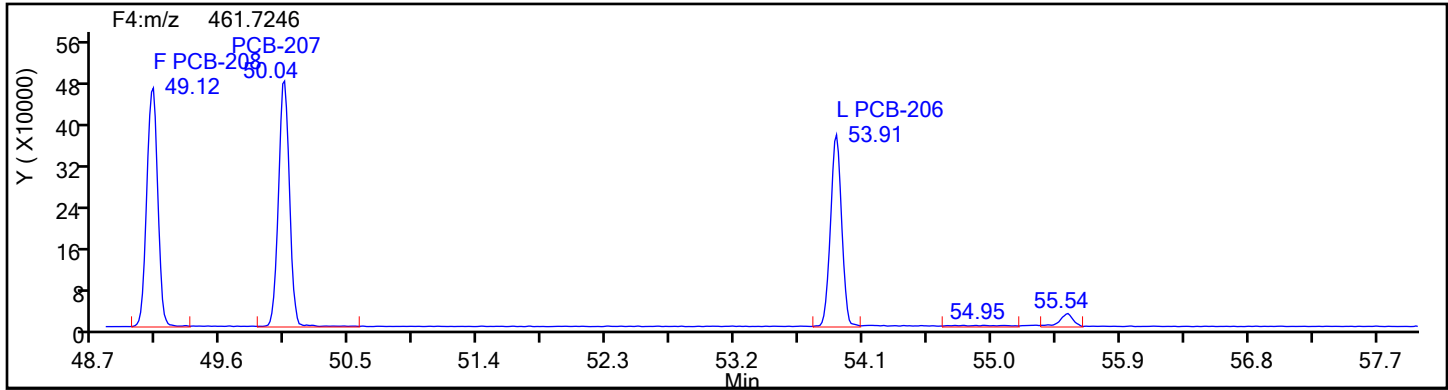
## OcPCB F4 Lock Mass



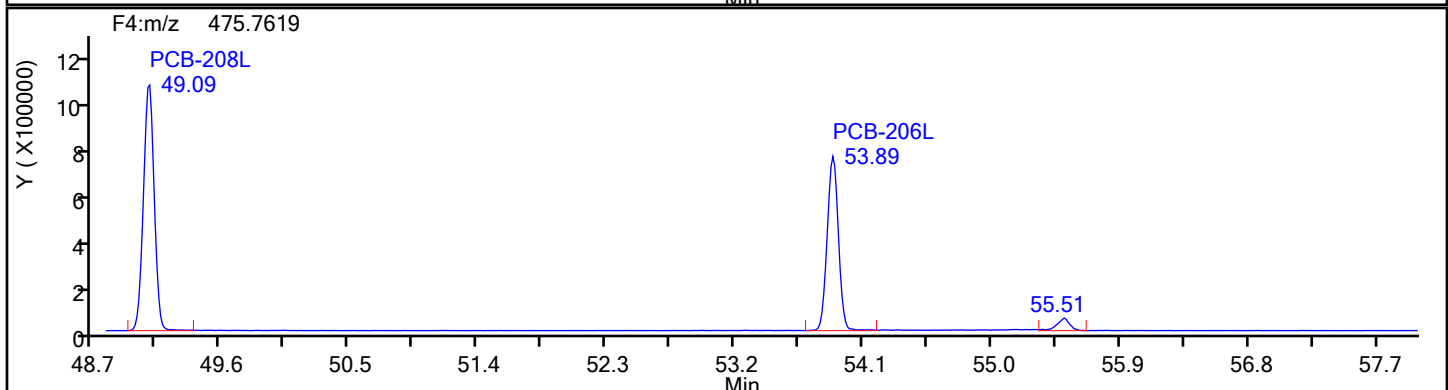
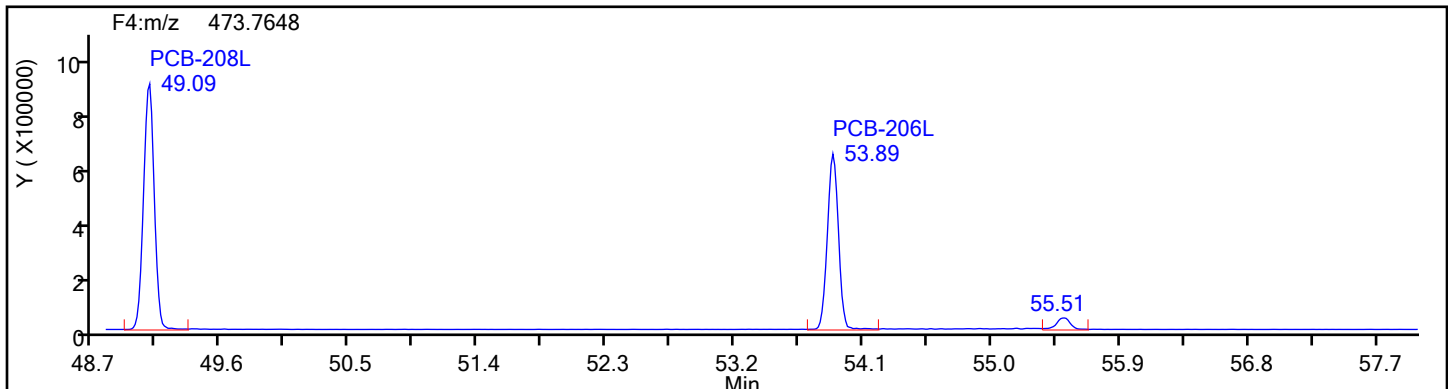


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88242 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



## NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

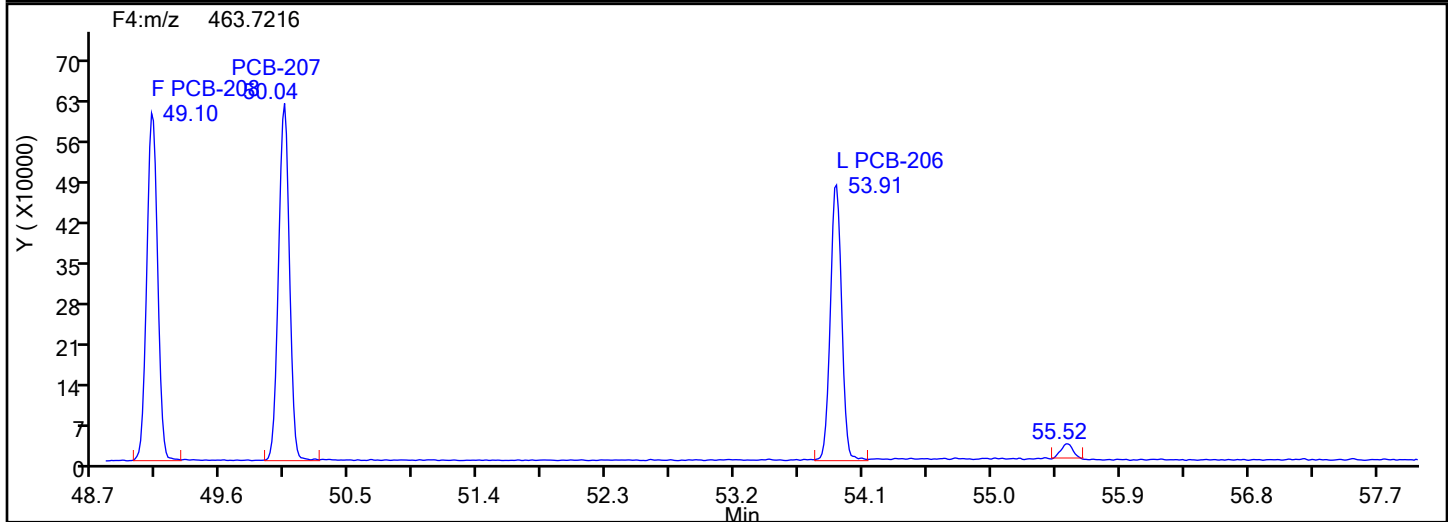
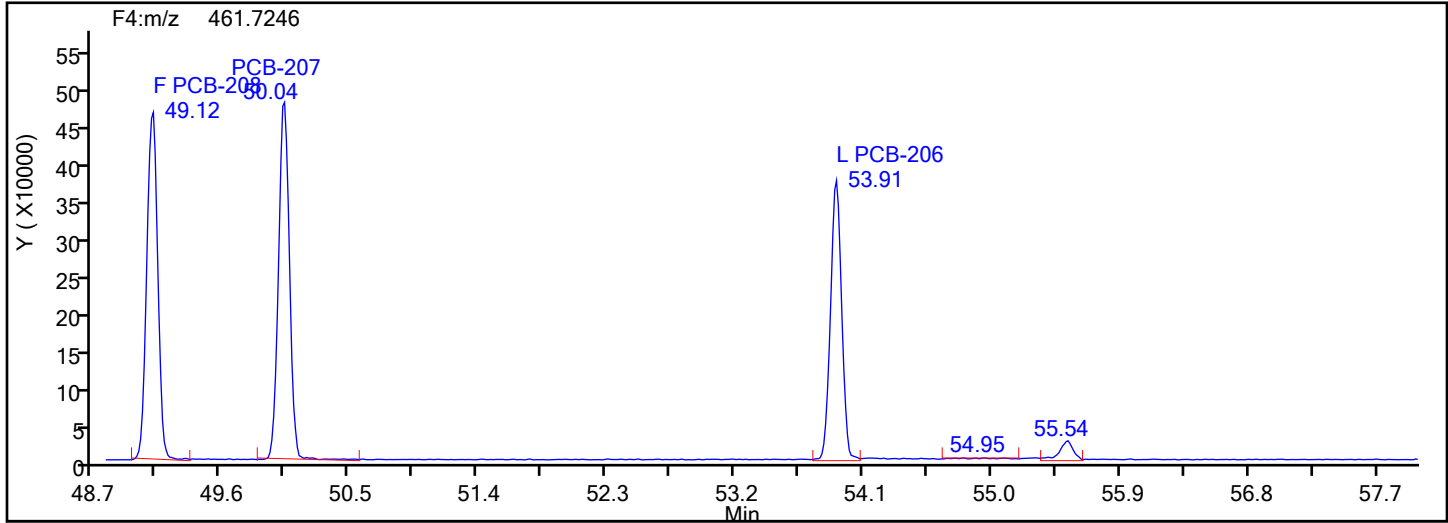
Worklist#: 88242

Sample Line#: 1

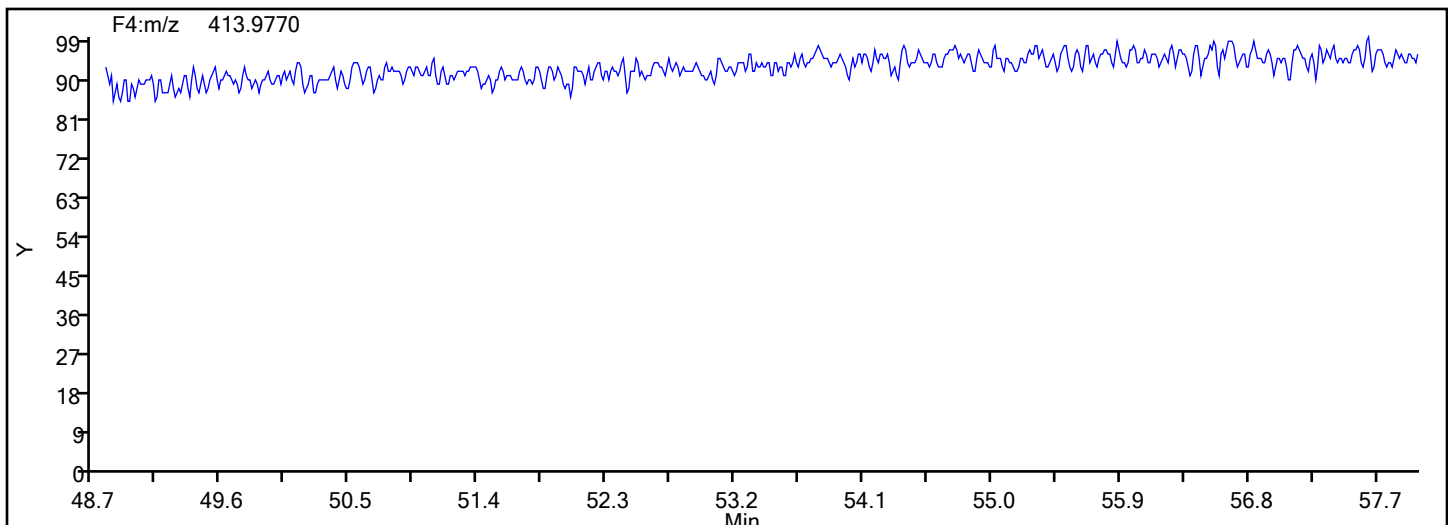
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4

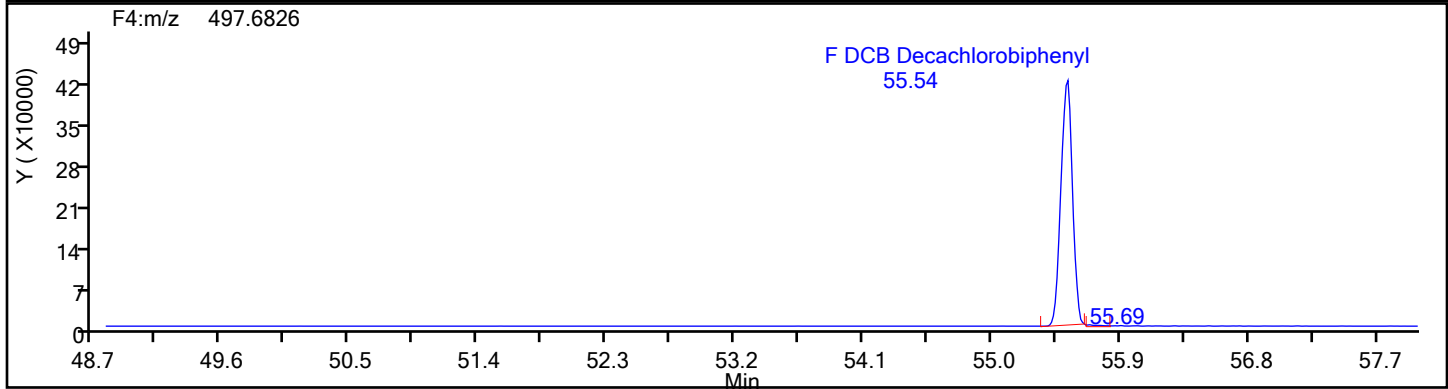
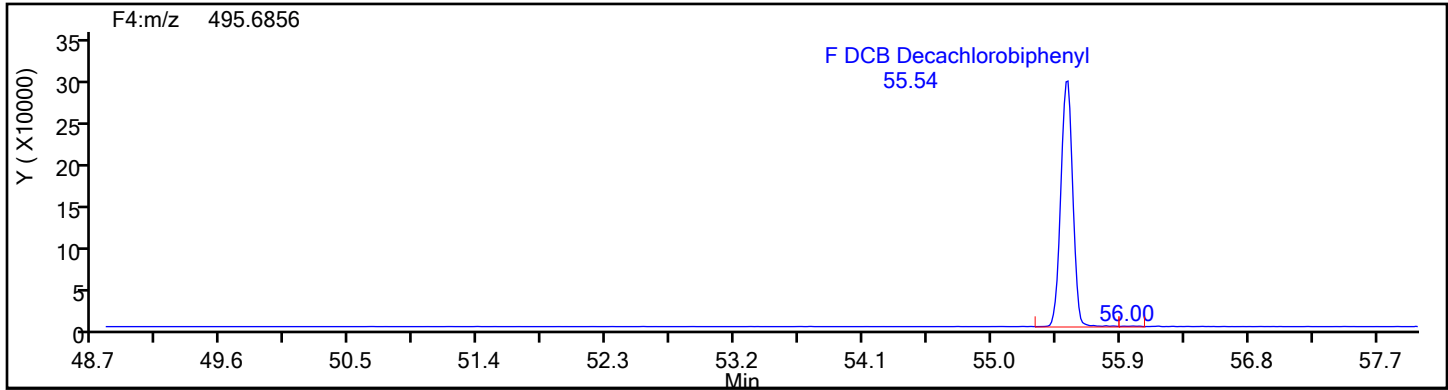


NoPCB F4 Lock Mass

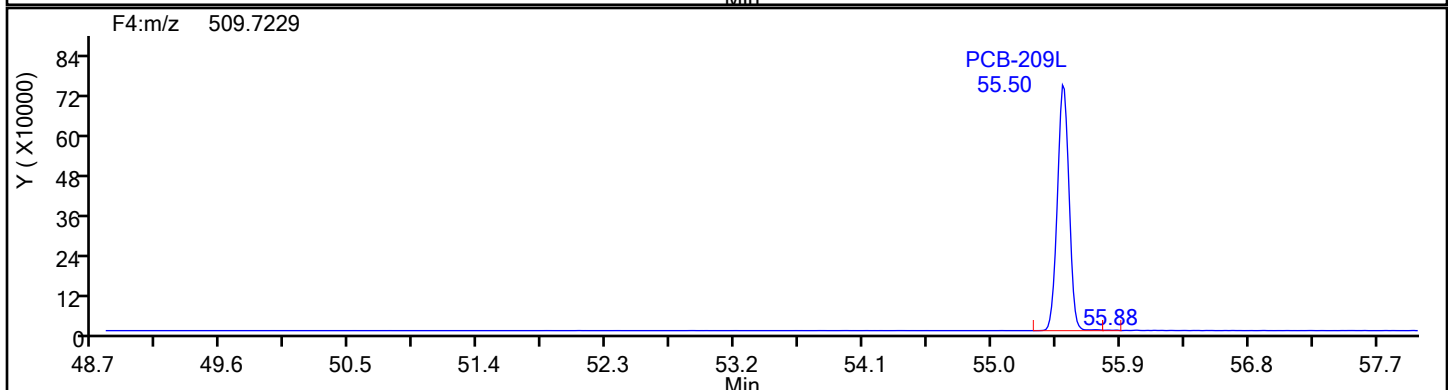
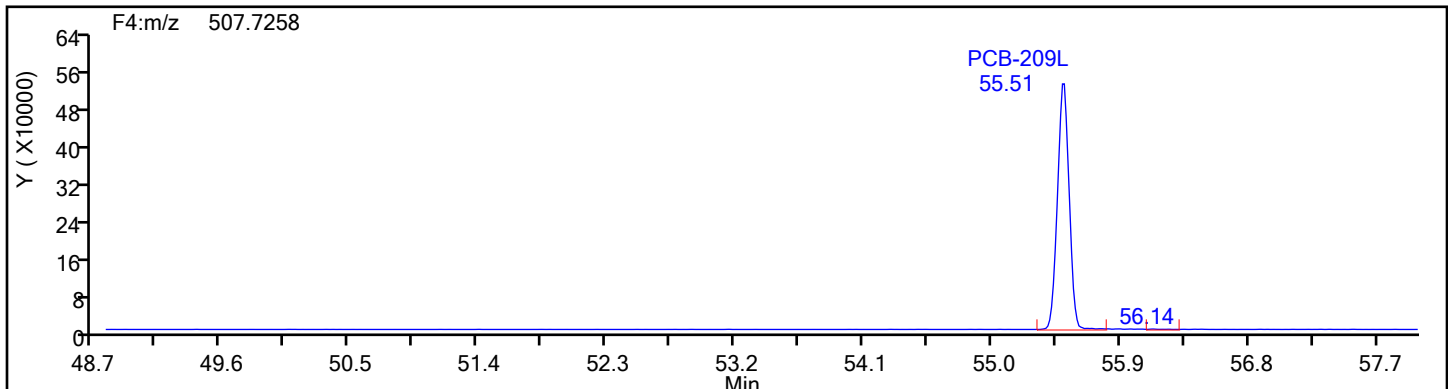


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d  
Injection Date: 28-Jun-2024 23:29:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88242 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240628-33313.b\d2240628c2a.d

Injection Date: 28-Jun-2024 23:29:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

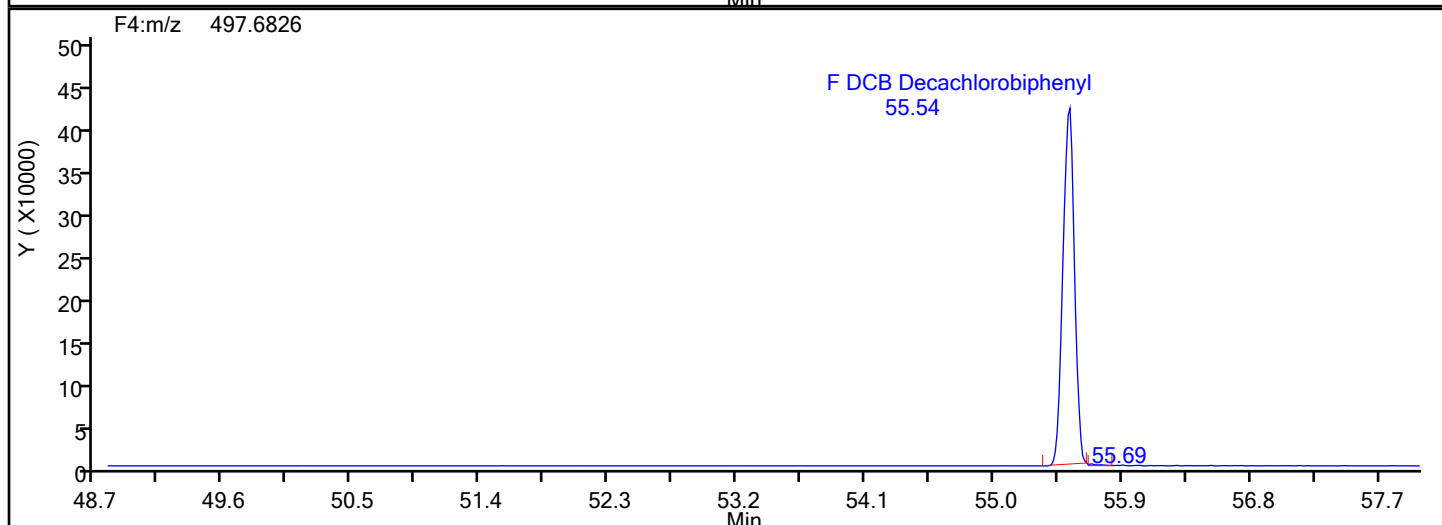
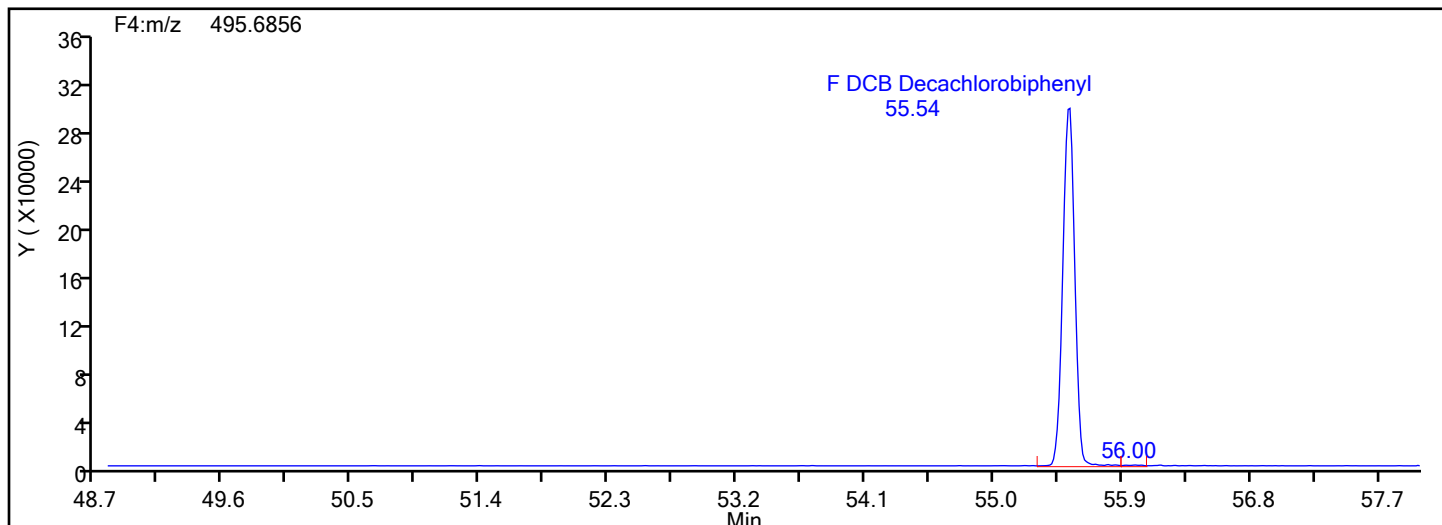
Worklist#: 88242

Sample Line#: 1

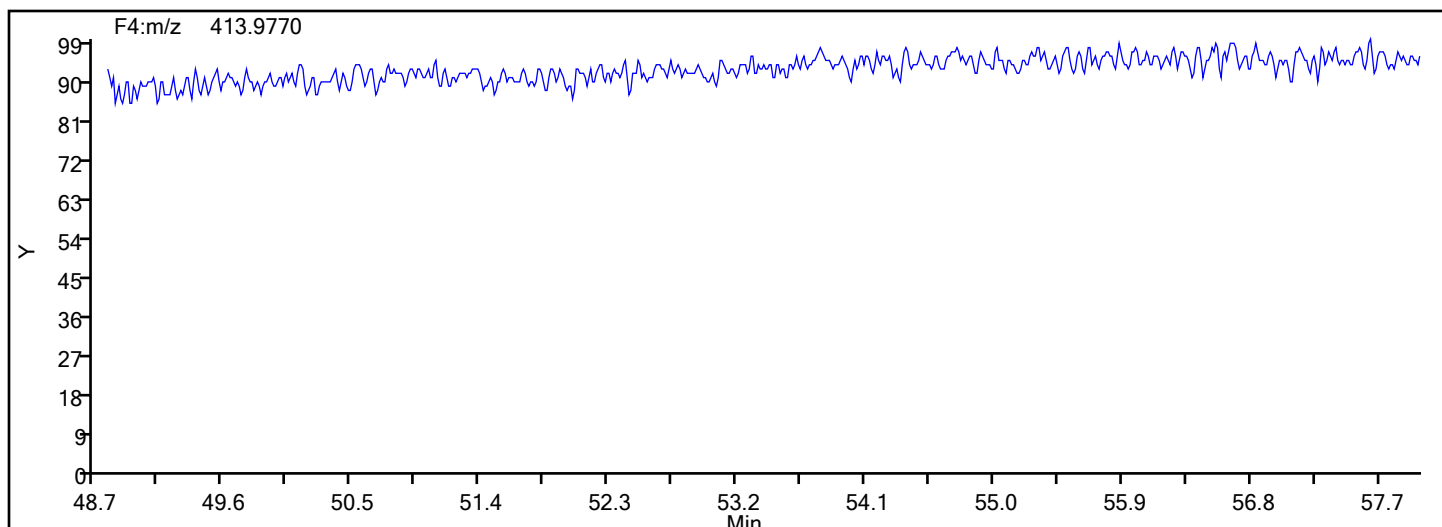
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88362/1 Calibration Date: 07/02/2024 17:01  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240702c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1	AveID	1.219	1.141		46.8	50.0	-6.4	25.0
PCB-2	AveID	1.181	1.099		46.6	50.0	-6.9	25.0
PCB-3	AveID	1.221	1.159		47.5	50.0	-5.1	25.0
PCB-4	AveID	1.282	1.343		52.4	50.0	4.7	25.0
PCB-10	AveID	1.315	1.502		57.1	50.0	14.2	25.0
PCB-9	AveID	1.422	1.547		54.4	50.0	8.8	25.0
PCB-7	AveID	1.413	1.532		54.2	50.0	8.4	25.0
PCB-6	AveID	1.542	1.682		54.5	50.0	9.1	25.0
PCB-5	AveID	1.339	1.450		54.1	50.0	8.2	25.0
PCB-8	AveID	1.589	1.729		54.4	50.0	8.8	25.0
PCB-19	AveID	1.281	1.368		53.4	50.0	6.8	25.0
PCB-14	AveID	1.402	1.483		52.9	50.0	5.8	25.0
PCB-18	AveID	1.765	1.810		103	100	2.5	25.0
PCB-18/30	AveID	1.765	1.810		103	100	2.5	25.0
PCB-30	AveID	1.765	1.810		103	100	2.5	25.0
PCB-11	AveID	1.295	1.375		53.1	50.0	6.2	25.0
PCB-17	AveID	1.243	1.261		50.7	50.0	1.5	25.0
PCB-12	AveID	1.336	1.404		105	100	5.1	25.0
PCB-12/13	AveID	1.336	1.404		105	100	5.1	25.0
PCB-13	AveID	1.336	1.404		105	100	5.1	25.0
PCB-27	AveID	1.833	1.934		52.8	50.0	5.5	25.0
PCB-24	AveID	1.678	1.709		50.9	50.0	1.9	25.0
PCB-16	AveID	1.129	1.242		55.0	50.0	10.1	25.0
PCB-15	AveID	1.290	1.396		54.1	50.0	8.2	25.0
PCB-54	AveID	1.273	1.252		49.2	50.0	-1.7	25.0
PCB-32	AveID	1.832	1.973		53.8	50.0	7.7	25.0
PCB-34	AveID	1.128	1.188		52.7	50.0	5.4	25.0
PCB-23	AveID	1.081	1.126		52.1	50.0	4.1	25.0
PCB-26	AveID	1.125	1.153		103	100	2.5	25.0
PCB-26/29	AveID	1.125	1.153		103	100	2.5	25.0
PCB-29	AveID	1.125	1.153		103	100	2.5	25.0
PCB-25	AveID	1.273	1.329		52.2	50.0	4.4	25.0
PCB-50	AveID	0.8578	0.8927		104	100	4.1	25.0
PCB-50/53	AveID	0.8578	0.8927		104	100	4.1	25.0
PCB-53	AveID	0.8578	0.8927		104	100	4.1	25.0
PCB-31	AveID	1.153	1.166		50.6	50.0	1.1	25.0
PCB-20	AveID	1.172	1.184		101	100	1.0	25.0
PCB-20/28	AveID	1.172	1.184		101	100	1.0	25.0
PCB-28	AveID	1.172	1.184		101	100	1.0	25.0
PCB-45	AveID	0.8264	0.8639		105	100	4.5	25.0
PCB-45/51	AveID	0.8264	0.8639		105	100	4.5	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88362/1 Calibration Date: 07/02/2024 17:01

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240702c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-51	AveID	0.8264	0.8639		105	100	4.5	25.0
PCB-21	AveID	1.075	1.119		104	100	4.1	25.0
PCB-21/33	AveID	1.075	1.119		104	100	4.1	25.0
PCB-33	AveID	1.075	1.119		104	100	4.1	25.0
PCB-46	AveID	0.7101	0.7390		52.0	50.0	4.1	25.0
PCB-22	AveID	1.193	1.240		52.0	50.0	4.0	25.0
PCB-52	AveID	0.9194	0.9448		51.4	50.0	2.8	25.0
PCB-43	AveID	1.033	1.059		103	100	2.5	25.0
PCB-43/73	AveID	1.033	1.059		103	100	2.5	25.0
PCB-73	AveID	1.033	1.059		103	100	2.5	25.0
PCB-36	AveID	1.107	1.120		50.6	50.0	1.1	25.0
PCB-49	AveID	1.069	1.089		102	100	1.9	25.0
PCB-49/69	AveID	1.069	1.089		102	100	1.9	25.0
PCB-69	AveID	1.069	1.089		102	100	1.9	25.0
PCB-39	AveID	1.158	1.168		50.4	50.0	0.9	25.0
PCB-48	AveID	0.8399	0.8461		50.4	50.0	0.7	25.0
PCB-104	AveID	1.009	1.057		52.4	50.0	4.8	25.0
PCB-44	AveID	0.9731	0.9698		150	150	-0.3	25.0
PCB-44/47/65	AveID	0.9731	0.9698		150	150	-0.3	25.0
PCB-47	AveID	0.9731	0.9698		150	150	-0.3	25.0
PCB-65	AveID	0.9731	0.9698		150	150	-0.3	25.0
PCB-38	AveID	1.084	1.061		48.9	50.0	-2.1	25.0
PCB-59	AveID	1.185	1.168		148	150	-1.5	25.0
PCB-59/62/75	AveID	1.185	1.168		148	150	-1.5	25.0
PCB-62	AveID	1.185	1.168		148	150	-1.5	25.0
PCB-75	AveID	1.185	1.168		148	150	-1.5	25.0
PCB-96	AveID	1.094	1.109		50.7	50.0	1.4	25.0
PCB-42	AveID	0.8097	0.8511		52.6	50.0	5.1	25.0
PCB-35	AveID	1.130	1.117		49.4	50.0	-1.2	25.0
PCB-40	AveID	0.8863	0.8837		150	150	-0.3	25.0
PCB-40/41/71	AveID	0.8863	0.8837		150	150	-0.3	25.0
PCB-41	AveID	0.8863	0.8837		150	150	-0.3	25.0
PCB-71	AveID	0.8863	0.8837		150	150	-0.3	25.0
PCB-37	AveID	1.144	1.100		48.1	50.0	-3.8	25.0
PCB-64	AveID	1.178	1.174		49.9	50.0	-0.3	25.0
PCB-72	AveID	1.094	1.104		50.4	50.0	0.9	25.0
PCB-103	AveID	0.8741	0.8718		49.9	50.0	-0.3	25.0
PCB-68	AveID	1.253	1.266		50.5	50.0	1.0	25.0
PCB-94	AveID	0.7640	0.7446		48.7	50.0	-2.5	25.0
PCB-57	AveID	1.082	1.108		51.2	50.0	2.4	25.0
PCB-95	AveID	0.8033	0.8111		50.5	50.0	1.0	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88362/1 Calibration Date: 07/02/2024 17:01  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240702c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-58	AveID	1.325	1.370		51.7	50.0	3.4	25.0
PCB-100	AveID	0.8429	0.8451		100	100	0.3	25.0
PCB-93	AveID	0.8429	0.8451		100	100	0.3	25.0
PCB-93/100	AveID	0.8429	0.8451		100	100	0.3	25.0
PCB-67	AveID	1.423	1.392		48.9	50.0	-2.2	25.0
PCB-102	AveID	0.8262	0.8210		99.4	100	-0.6	25.0
PCB-98	AveID	0.8262	0.8210		99.4	100	-0.6	25.0
PCB-98/102	AveID	0.8262	0.8210		99.4	100	-0.6	25.0
PCB-63	AveID	1.124	1.115		49.6	50.0	-0.8	25.0
PCB-88	AveID	0.8013	0.8036		100	100	0.3	25.0
PCB-88/91	AveID	0.8013	0.8036		100	100	0.3	25.0
PCB-91	AveID	0.8013	0.8036		100	100	0.3	25.0
PCB-61	AveID	1.261	1.226		194	200	-2.8	25.0
PCB-61/70/74/76	AveID	1.261	1.226		194	200	-2.8	25.0
PCB-70	AveID	1.261	1.226		194	200	-2.8	25.0
PCB-74	AveID	1.261	1.226		194	200	-2.8	25.0
PCB-76	AveID	1.261	1.226		194	200	-2.8	25.0
PCB-84	AveID	0.7299	0.7249		49.7	50.0	-0.7	25.0
PCB-66	AveID	1.258	1.263		50.2	50.0	0.4	25.0
PCB-55	AveID	1.324	1.327		50.2	50.0	0.3	25.0
PCB-89	AveID	0.7798	0.7655		49.1	50.0	-1.8	25.0
PCB-56	AveID	1.233	1.197		48.5	50.0	-3.0	25.0
PCB-121	AveID	1.296	1.300		50.1	50.0	0.3	25.0
PCB-60	AveID	1.123	1.092		48.6	50.0	-2.7	25.0
PCB-92	AveID	0.8546	0.8469		49.6	50.0	-0.9	25.0
PCB-80	AveID	1.324	1.323		50.0	50.0	-0.0	25.0
PCB-155	AveID	0.9444	0.9706		51.4	50.0	2.8	25.0
PCB-152	AveID	0.9895	0.9704		49.0	50.0	-1.9	25.0
PCB-101	AveID	0.9550	0.9352		147	150	-2.1	25.0
PCB-113	AveID	0.9550	0.9352		147	150	-2.1	25.0
PCB-90	AveID	0.9550	0.9352		147	150	-2.1	25.0
PCB-90/101/113	AveID	0.9550	0.9352		147	150	-2.1	25.0
PCB-150	AveID	1.013	1.051		51.9	50.0	3.7	25.0
PCB-136	AveID	1.012	1.007		49.8	50.0	-0.5	25.0
PCB-83	AveID	0.8385	0.8515		102	100	1.5	25.0
PCB-83/99	AveID	0.8385	0.8515		102	100	1.5	25.0
PCB-99	AveID	0.8385	0.8515		102	100	1.5	25.0
PCB-112	AveID	1.411	1.377		48.8	50.0	-2.4	25.0
PCB-145	AveID	0.9685	0.9814		50.7	50.0	1.3	25.0
PCB-109	AveID	1.047	1.023		293	300	-2.3	25.0
PCB-119	AveID	1.047	1.023		293	300	-2.3	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88362/1 Calibration Date: 07/02/2024 17:01  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240702c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-125	AveID	1.047	1.023		293	300	-2.3	25.0
PCB-86	AveID	1.047	1.023		293	300	-2.3	25.0
PCB-86/87/97/109/119/125	AveID	1.047	1.023		293	300	-2.3	25.0
PCB-87	AveID	1.047	1.023		293	300	-2.3	25.0
PCB-97	AveID	1.047	1.023		293	300	-2.3	25.0
PCB-79	AveID	1.437	1.328		46.2	50.0	-7.6	25.0
PCB-78	AveID	1.162	1.160		49.9	50.0	-0.2	25.0
PCB-116	AveID	1.041	1.016		146	150	-2.4	25.0
PCB-117	AveID	1.041	1.016		146	150	-2.4	25.0
PCB-85	AveID	1.041	1.016		146	150	-2.4	25.0
PCB-85/116/117	AveID	1.041	1.016		146	150	-2.4	25.0
PCB-110	AveID	1.192	1.176		98.7	100	-1.3	25.0
PCB-110/115	AveID	1.192	1.176		98.7	100	-1.3	25.0
PCB-115	AveID	1.192	1.176		98.7	100	-1.3	25.0
PCB-81	AveID	1.080	0.9927		46.0	50.0	-8.1	25.0
PCB-148	AveID	0.7603	0.7454		49.0	50.0	-2.0	25.0
PCB-82	AveID	0.8303	0.8078		48.6	50.0	-2.7	25.0
PCB-77	AveID	1.084	1.016		46.9	50.0	-6.2	25.0
PCB-111	AveID	1.213	1.188		49.0	50.0	-2.1	25.0
PCB-135	AveID	0.7256	0.7294		101	100	0.5	25.0
PCB-135/151	AveID	0.7256	0.7294		101	100	0.5	25.0
PCB-151	AveID	0.7256	0.7294		101	100	0.5	25.0
PCB-120	AveID	1.476	1.429		48.4	50.0	-3.2	25.0
PCB-154	AveID	0.8129	0.8146		50.1	50.0	0.2	25.0
PCB-144	AveID	0.7852	0.7887		50.2	50.0	0.4	25.0
PCB-147	AveID	0.8950	0.8469		94.6	100	-5.4	25.0
PCB-147/149	AveID	0.8950	0.8469		94.6	100	-5.4	25.0
PCB-149	AveID	0.8950	0.8469		94.6	100	-5.4	25.0
PCB-134	AveID	0.7967	0.7596		95.3	100	-4.7	25.0
PCB-134/143	AveID	0.7967	0.7596		95.3	100	-4.7	25.0
PCB-143	AveID	0.7967	0.7596		95.3	100	-4.7	25.0
PCB-108	AveID	1.141	1.058		92.8	100	-7.2	25.0
PCB-108/124	AveID	1.141	1.058		92.8	100	-7.2	25.0
PCB-124	AveID	1.141	1.058		92.8	100	-7.2	25.0
PCB-139	AveID	0.8769	0.8311		94.8	100	-5.2	25.0
PCB-139/140	AveID	0.8769	0.8311		94.8	100	-5.2	25.0
PCB-140	AveID	0.8769	0.8311		94.8	100	-5.2	25.0
PCB-107	AveID	1.212	1.122		46.3	50.0	-7.4	25.0
PCB-131	AveID	0.7503	0.7092		47.3	50.0	-5.5	25.0
PCB-123	AveID	1.072	1.031		48.1	50.0	-3.9	25.0
PCB-106	AveID	1.084	1.038		47.9	50.0	-4.2	25.0



FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88362/1 Calibration Date: 07/02/2024 17:01

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240702c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-142	AveID	0.7507	0.7531		50.2	50.0	0.3	25.0
PCB-118	AveID	1.206	1.116		46.3	50.0	-7.4	25.0
PCB-132	AveID	0.7489	0.7166		47.8	50.0	-4.3	25.0
PCB-122	AveID	0.9567	0.9269		48.4	50.0	-3.1	25.0
PCB-188	AveID	1.135	1.151		50.7	50.0	1.4	25.0
PCB-114	AveID	1.084	1.046		48.3	50.0	-3.5	25.0
PCB-133	AveID	0.8096	0.7641		47.2	50.0	-5.6	25.0
PCB-179	AveID	1.428	1.395		48.8	50.0	-2.3	25.0
PCB-165	AveID	1.025	0.9931		48.5	50.0	-3.1	25.0
PCB-105	AveID	1.188	1.115		46.9	50.0	-6.2	25.0
PCB-146	AveID	0.9637	0.9643		50.0	50.0	0.0	25.0
PCB-184	AveID	1.367	1.383		50.6	50.0	1.1	25.0
PCB-161	AveID	1.129	1.070		47.4	50.0	-5.2	25.0
PCB-176	AveID	1.233	1.238		50.2	50.0	0.4	25.0
PCB-153	AveID	1.094	1.055		96.5	100	-3.6	25.0
PCB-153/168	AveID	1.094	1.055		96.5	100	-3.6	25.0
PCB-168	AveID	1.094	1.055		96.5	100	-3.6	25.0
PCB-141	AveID	0.8755	0.8343		47.6	50.0	-4.7	25.0
PCB-186	AveID	1.474	1.519		51.6	50.0	3.1	25.0
PCB-130	AveID	0.7051	0.6680		47.4	50.0	-5.3	25.0
PCB-127	AveID	1.139	1.091		47.9	50.0	-4.3	25.0
PCB-137	AveID	0.7767	0.7575		48.8	50.0	-2.5	25.0
PCB-164	AveID	1.038	1.044		50.3	50.0	0.6	25.0
PCB-129	AveID	0.9464	0.8954		189	200	-5.4	25.0
PCB-129/138/160/163	AveID	0.9464	0.8954		189	200	-5.4	25.0
PCB-138	AveID	0.9464	0.8954		189	200	-5.4	25.0
PCB-160	AveID	0.9464	0.8954		189	200	-5.4	25.0
PCB-163	AveID	0.9464	0.8954		189	200	-5.4	25.0
PCB-158	AveID	1.311	1.237		47.2	50.0	-5.6	25.0
PCB-178	AveID	0.8946	0.8910		49.8	50.0	-0.4	25.0
PCB-175	AveID	0.9524	0.9730		51.1	50.0	2.2	25.0
PCB-126	AveID	1.098	1.093		49.8	50.0	-0.4	25.0
PCB-128	AveID	0.9829	0.9578		97.4	100	-2.6	25.0
PCB-128/166	AveID	0.9829	0.9578		97.4	100	-2.6	25.0
PCB-166	AveID	0.9829	0.9578		97.4	100	-2.6	25.0
PCB-187	AveID	1.102	1.143		51.9	50.0	3.8	25.0
PCB-182	AveID	0.9247	0.9760		52.8	50.0	5.6	25.0
PCB-183	AveID	0.9825	0.9662		98.4	100	-1.7	25.0
PCB-183/185	AveID	0.9825	0.9662		98.4	100	-1.7	25.0
PCB-185	AveID	0.9825	0.9662		98.4	100	-1.7	25.0
PCB-174	AveID	0.9642	1.001		51.9	50.0	3.8	25.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: WDMCCV 140-88362/1 Calibration Date: 07/02/2024 17:01  
Instrument ID: D2D Calib Start Date: 05/31/2024 14:36  
GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13  
Lab File ID: d2240702c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-159	AveID	1.386	1.311		47.3	50.0	-5.4	25.0
PCB-162	AveID	1.257	1.211		48.2	50.0	-3.7	25.0
PCB-177	AveID	0.9773	0.9886		50.6	50.0	1.2	25.0
PCB-202	AveID	1.036	1.080		52.1	50.0	4.3	25.0
PCB-167	AveID	1.116	1.081		48.5	50.0	-3.1	25.0
PCB-181	AveID	0.9505	0.9638		50.7	50.0	1.4	25.0
PCB-171	AveID	0.9336	0.9061		97.1	100	-2.9	25.0
PCB-171/173	AveID	0.9336	0.9061		97.1	100	-2.9	25.0
PCB-173	AveID	0.9336	0.9061		97.1	100	-2.9	25.0
PCB-201	AveID	0.9754	1.023		52.4	50.0	4.9	25.0
PCB-156	AveID	1.110	1.108		99.8	100	-0.2	25.0
PCB-156/157	AveID	1.110	1.108		99.8	100	-0.2	25.0
PCB-157	AveID	1.110	1.108		99.8	100	-0.2	25.0
PCB-204	AveID	1.049	1.078		51.4	50.0	2.8	25.0
PCB-197	AveID	1.146	1.142		49.8	50.0	-0.3	25.0
PCB-200	AveID	1.007	1.103		54.8	50.0	9.5	25.0
PCB-172	AveID	0.8519	0.8800		51.7	50.0	3.3	25.0
PCB-192	AveID	1.346	1.443		53.6	50.0	7.2	25.0
PCB-180	AveID	1.168	1.238		106	100	6.0	25.0
PCB-180/193	AveID	1.168	1.238		106	100	6.0	25.0
PCB-193	AveID	1.168	1.238		106	100	6.0	25.0
PCB-191	AveID	1.289	1.418		55.0	50.0	10.0	25.0
PCB-170	AveID	1.187	1.188		50.1	50.0	0.2	25.0
PCB-190	AveID	1.332	1.445		54.2	50.0	8.4	25.0
PCB-169	AveID	1.163	1.126		48.4	50.0	-3.2	25.0
PCB-198	AveID	0.8698	0.9125		105	100	4.9	25.0
PCB-198/199	AveID	0.8698	0.9125		105	100	4.9	25.0
PCB-199	AveID	0.8698	0.9125		105	100	4.9	25.0
PCB-196	AveID	0.7806	0.8384		53.7	50.0	7.4	25.0
PCB-203	AveID	0.9292	1.015		54.6	50.0	9.3	25.0
PCB-208	AveID	1.137	1.123		49.4	50.0	-1.3	25.0
PCB-195	AveID	0.8263	0.8400		50.8	50.0	1.7	25.0
PCB-189	AveID	0.9633	0.9785		50.8	50.0	1.6	25.0
PCB-207	AveID	1.376	1.353		49.2	50.0	-1.7	25.0
PCB-194	AveID	0.9735	0.9652		49.6	50.0	-0.8	25.0
PCB-205	AveID	1.088	1.105		50.8	50.0	1.6	25.0
PCB-206	AveID	1.335	1.256		47.0	50.0	-5.9	25.0
PCB-209	AveID	1.100	1.116		50.7	50.0	1.4	25.0
PCB-1L	Ave	1.611	1.799		112	100	11.7	30.0
PCB-3L	Ave	1.589	1.671		105	100	5.1	30.0
PCB-4L	Ave	0.6475	0.6554		101	100	1.2	30.0

FORM VII  
HI-RES PCBS CONTINUING CALIBRATION DATA

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Lab Sample ID: WDMCCV 140-88362/1 Calibration Date: 07/02/2024 17:01

Instrument ID: D2D Calib Start Date: 05/31/2024 14:36

GC Column: SPB-Octyl ID: 0.25 (mm) Calib End Date: 05/31/2024 21:13

Lab File ID: d2240702c1a.d Conc. Units: pg/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-19L	Ave	0.6285	0.6095		97.0	100	-3.0	30.0
PCB-15L	Ave	1.079	0.999		92.6	100	-7.4	30.0
PCB-54L	Ave	0.5562	0.6044		109	100	8.7	30.0
PCB-104L	Ave	1.216	1.273		105	100	4.7	30.0
PCB-37L	Ave	0.8749	0.8266		94.5	100	-5.5	30.0
PCB-155L	Ave	1.085	1.123		104	100	3.5	30.0
PCB-81L	Ave	1.247	1.172		94.0	100	-6.0	30.0
PCB-77L	Ave	1.321	1.218		92.2	100	-7.8	30.0
PCB-123L	Ave	0.9731	0.9876		102	100	1.5	30.0
PCB-118L	Ave	1.010	1.036		103	100	2.5	30.0
PCB-188L	Ave	1.313	1.275		97.1	100	-3.0	30.0
PCB-114L	Ave	0.9949	1.010		102	100	1.5	30.0
PCB-105L	Ave	0.9514	0.9724		102	100	2.2	30.0
PCB-126L	Ave	0.9439	0.9775		104	100	3.6	30.0
PCB-202L	Ave	0.9818	0.9412		95.9	100	-4.1	30.0
PCB-167L	Ave	1.257	1.255		99.8	100	-0.2	30.0
PCB-156L	Ave	1.211	1.238		205	200	2.3	30.0
PCB-156L/157L	Ave	1.211	1.238		205	200	2.3	30.0
PCB-157L	Ave	1.211	1.238		205	200	2.3	30.0
PCB-170L	Ave	0.8362	0.8447		101	100	1.0	30.0
PCB-169L	Ave	1.244	1.294		104	100	4.0	30.0
PCB-208L	Ave	0.9576	0.996		104	100	4.0	30.0
PCB-189L	Ave	1.441	1.452		101	100	0.7	30.0
PCB-205L	Ave	1.179	1.190		101	100	1.0	30.0
PCB-206L	Ave	0.6947	0.7248		104	100	4.3	30.0
PCB-209L	Ave	0.6669	0.7146		107	100	7.2	30.0
PCB-8L	AveID	1.207	1.166		48.3	50.0	-3.3	25.0
PCB-28L	Ave	1.049	0.9872		47.0	50.0	-5.9	30.0
PCB-95L	AveID	0.7218	0.6974		48.3	50.0	-3.4	25.0
PCB-79L	AveID	1.002	1.006		50.2	50.0	0.4	25.0
PCB-111L	Ave	1.370	1.279		46.7	50.0	-6.7	30.0
PCB-153L	AveID	0.9169	0.8078		44.1	50.0	-11.9	25.0
PCB-178L	Ave	1.031	0.9071		44.0	50.0	-12.0	30.0

# Resolution Check Report ( DFS SN: 3190 )

Date: 02 Jul 2024 16:42  
MID Experiment: ResCheck\_1668  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43KnxPCB.lua  
Status: RESOLUTION PASSED

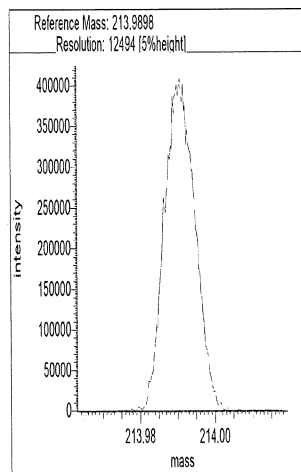
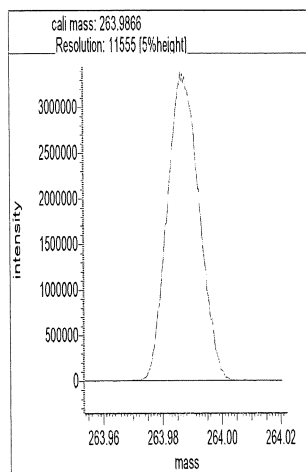
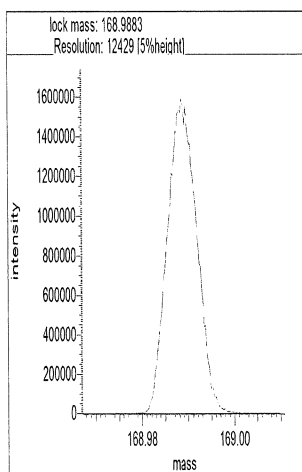
-d2240702r1

## Segment 1

Lock mass 168.9883 [m/z] Resolution: 12429 [5%height]

Cali. mass 263.9866 [m/z] Resolution: 11555 [5%height]

Ref. mass 213.9898 [m/z] Resolution: 12494 [5%height]

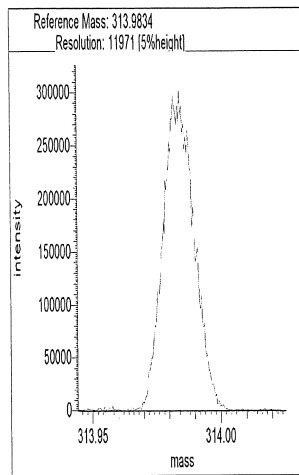
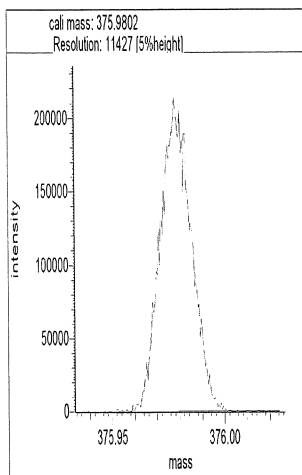
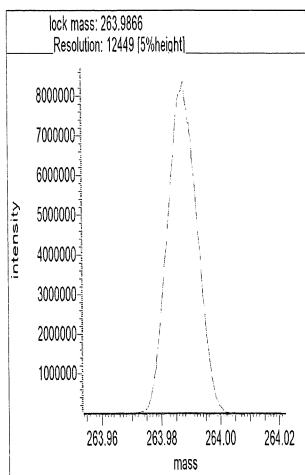


## Segment 2

Lock mass 263.9866 [m/z] Resolution: 12449 [5%height]

Cali. mass 375.9802 [m/z] Resolution: 11427 [5%height]

Ref. mass 313.9834 [m/z] Resolution: 11971 [5%height]

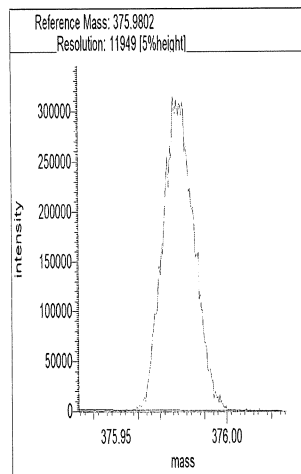
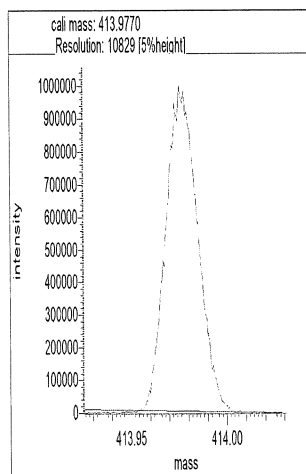
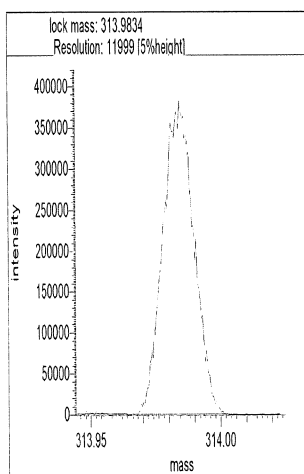


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 11999 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 10829 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 11949 [5%height]

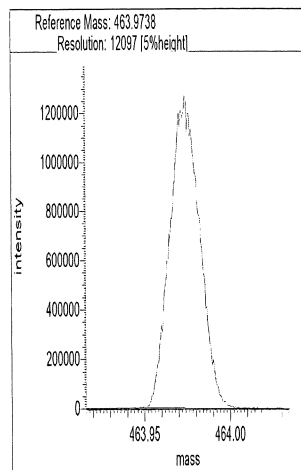
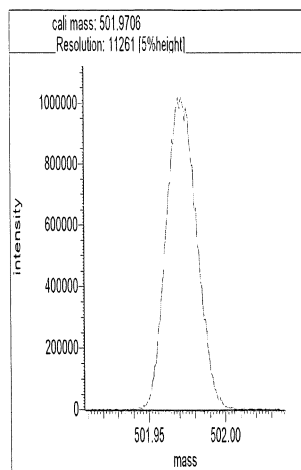
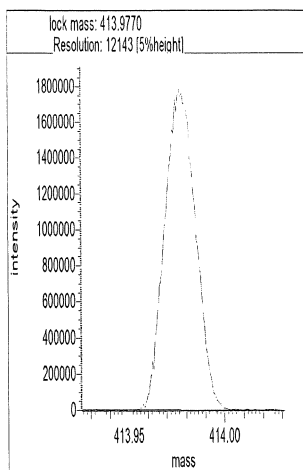


### Segment 4

Lock mass 413.9770 [m/z] Resolution: 12143 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 11261 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 12097 [5%height]



## Reports

16:51:07: Peak matching procedure started  
16:51:08:  
16:51:08: Reference mass: 168.98827  
16:51:08: Sample mass: 214.0  
16:51:09:  
16:51:10: Finding reference mass  
16:51:10: Finding sample mass  
16:51:11:  
16:51:17: [1] 213.9899 amu, mean: 213.9899  
16:51:20: [2] 213.9902 amu, mean: 213.9901 SD: 0.20 mmu or: 0.93 ppm  
16:51:23: [3] 213.9900 amu, mean: 213.9900 SD: 0.15 mmu or: 0.69 ppm  
16:51:26: [4] 213.9901 amu, mean: 213.9900 SD: 0.12 mmu or: 0.56 ppm  
16:51:28:  
16:51:28: Stop requested. Please wait for procedure to finish.  
16:51:28:  
16:51:29: [5] 213.9902 amu, mean: 213.9901 SD: 0.12 mmu or: 0.57 ppm  
16:51:31:  
16:51:31: Peakmatching stopped

Signature

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## Reports

16:51:44: Peak matching procedure started  
16:51:45:  
16:51:45: Reference mass: 213.98975  
16:51:46: Sample mass: 264.0  
16:51:46:  
16:51:47: Finding reference mass  
16:51:48: Finding sample mass  
16:51:48:  
16:51:54: [1] 263.9872 amu, mean: 263.9872  
16:51:57: [2] 263.9870 amu, mean: 263.9871 SD: 0.19 mmu or: 0.71 ppm  
16:52:00: [3] 263.9871 amu, mean: 263.9871 SD: 0.13 mmu or: 0.50 ppm  
16:52:04: [4] 263.9873 amu, mean: 263.9872 SD: 0.14 mmu or: 0.53 ppm  
16:52:04:  
16:52:04: Stop requested. Please wait for procedure to finish.  
16:52:04:  
16:52:07:  
16:52:07: Peakmatching stopped

Signature

BKK

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## Reports

16:52:16: Peak matching procedure started  
16:52:17:  
16:52:17: Reference mass: 263.98656  
16:52:18: Sample mass: 314.0  
16:52:18:  
16:52:19: Finding reference mass  
16:52:20: Finding sample mass  
16:52:20:  
16:52:26: [1] 313.9843 amu, mean: 313.9843  
16:52:29: [2] 313.9842 amu, mean: 313.9842 SD: 0.08 mmu or: 0.26 ppm  
16:52:33: [3] 313.9837 amu, mean: 313.9841 SD: 0.30 mmu or: 0.95 ppm  
16:52:36: [4] 313.9846 amu, mean: 313.9842 SD: 0.37 mmu or: 1.17 ppm  
16:52:36:  
16:52:36: Stop requested. Please wait for procedure to finish.  
16:52:36:  
16:52:39:  
16:52:39: Peakmatching stopped

Signature

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## Reports

16:53:18: Peak matching procedure started  
16:53:18:  
16:53:19: Reference mass: 313.98336  
16:53:19: Sample mass: 376.0  
16:53:20:  
16:53:20: Finding reference mass  
16:53:21: Finding sample mass  
16:53:22:  
16:53:27: [1] 375.9817 amu, mean: 375.9817  
16:53:31: [2] 375.9814 amu, mean: 375.9815 SD: 0.20 mmu or: 0.53 ppm  
16:53:34: [3] 375.9817 amu, mean: 375.9816 SD: 0.16 mmu or: 0.43 ppm  
16:53:37: [4] 375.9820 amu, mean: 375.9817 SD: 0.26 mmu or: 0.70 ppm  
16:53:37:  
16:53:37: Stop requested. Please wait for procedure to finish.  
16:53:37:  
16:53:40:  
16:53:41: Peakmatching stopped


Signature

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## Reports

16:53:18: Peak matching procedure started  
16:53:18:  
16:53:19: Reference mass: 313.98336  
16:53:19: Sample mass: 376.0  
16:53:20:  
16:53:20: Finding reference mass  
16:53:21: Finding sample mass  
16:53:22:  
16:53:27: [1] 375.9817 amu, mean: 375.9817  
16:53:31: [2] 375.9814 amu, mean: 375.9815 SD: 0.20 mmu or: 0.53 ppm  
16:53:34: [3] 375.9817 amu, mean: 375.9816 SD: 0.16 mmu or: 0.43 ppm  
16:53:37: [4] 375.9820 amu, mean: 375.9817 SD: 0.26 mmu or: 0.70 ppm  
16:53:37:  
16:53:37: Stop requested. Please wait for procedure to finish.  
16:53:37:  
16:53:40:  
16:53:41: Peakmatching stopped

Signature

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## Reports

16:55:06: Peak matching procedure started  
16:55:06:  
16:55:07: Reference mass: 375.98017  
16:55:07: Sample mass: 414.0  
16:55:08:  
16:55:09: Finding reference mass  
16:55:09: Finding sample mass  
16:55:10:  
16:55:15: [1] 413.9773 amu, mean: 413.9773  
16:55:19: [2] 413.9773 amu, mean: 413.9773 SD: 0.01 mmu or: 0.02 ppm  
16:55:22: [3] 413.9775 amu, mean: 413.9774 SD: 0.14 mmu or: 0.34 ppm  
16:55:25: [4] 413.9777 amu, mean: 413.9774 SD: 0.19 mmu or: 0.46 ppm  
16:55:25:  
16:55:25: Stop requested. Please wait for procedure to finish.  
16:55:25:  
16:55:28:  
16:55:29: Peakmatching stopped

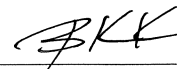
Signature

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## Reports

16:55:40: Peak matching procedure started  
16:55:40:  
16:55:41: Reference mass: 413.97698  
16:55:41: Sample mass: 464.0  
16:55:42:  
16:55:42: Finding reference mass  
16:55:43: Finding sample mass  
16:55:44:  
16:55:49: [1] 463.9738 amu, mean: 463.9738  
16:55:53: [2] 463.9739 amu, mean: 463.9738 SD: 0.09 mmu or: 0.20 ppm  
16:55:56: [3] 463.9738 amu, mean: 463.9738 SD: 0.07 mmu or: 0.14 ppm  
16:55:59: [4] 463.9743 amu, mean: 463.9739 SD: 0.24 mmu or: 0.51 ppm  
16:55:59:  
16:55:59: Stop requested. Please wait for procedure to finish.  
16:55:59:  
16:56:02:  
16:56:03: Peakmatching stopped

Signature



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## Reports

16:58:06: Peak matching procedure started  
16:58:07:  
16:58:07: Reference mass: 463.97378  
16:58:08: Sample mass: 502.0  
16:58:08:  
16:58:09: Finding reference mass  
16:58:10: Finding sample mass  
16:58:10:  
16:58:16: [1] 501.9702 amu, mean: 501.9702  
16:58:19: [2] 501.9704 amu, mean: 501.9703 SD: 0.15 mmu or: 0.31 ppm  
16:58:23: [3] 501.9707 amu, mean: 501.9705 SD: 0.25 mmu or: 0.49 ppm  
16:58:26: [4] 501.9706 amu, mean: 501.9705 SD: 0.21 mmu or: 0.42 ppm  
16:58:26:  
16:58:26: Stop requested. Please wait for procedure to finish.  
16:58:26:  
16:58:29:  
16:58:29: Peakmatching stopped

Signature

BKK

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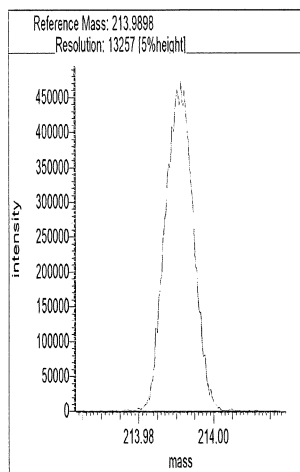
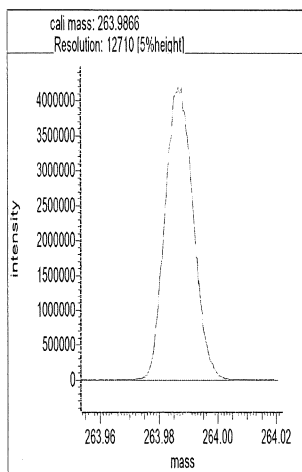
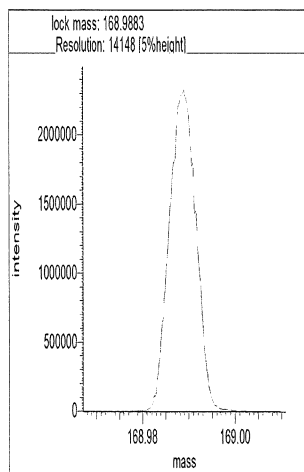
# Resolution Check Report ( DFS SN: 3190 )

Date: 02 Jul 2024 23:30  
MID Experiment: ResCheck\_1668  
Target Resolution: 10000  
Resolution Warning : 10000  
Resolution Error : 10000  
Reference: FC43KnxPCB.lua  
Status: RESOLUTION PASSED

-d2240702r2

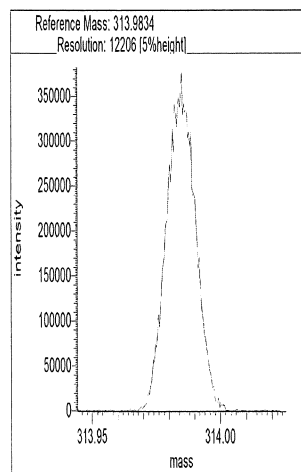
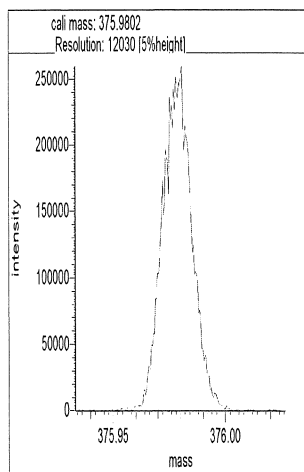
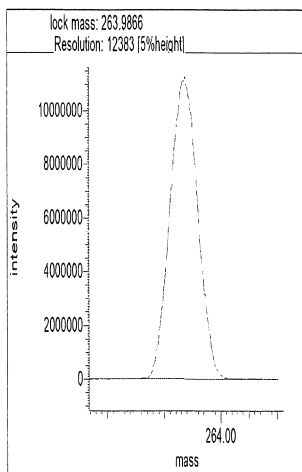
## Segment 1

Lock mass 168.9883 [m/z] Resolution: 14148 [5%height]  
Cali. mass 263.9866 [m/z] Resolution: 12710 [5%height]  
Ref. mass 213.9898 [m/z] Resolution: 13257 [5%height]



## Segment 2

Lock mass 263.9866 [m/z] Resolution: 12383 [5%height]  
Cali. mass 375.9802 [m/z] Resolution: 12030 [5%height]  
Ref. mass 313.9834 [m/z] Resolution: 12206 [5%height]

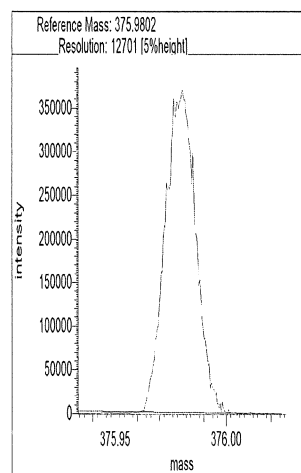
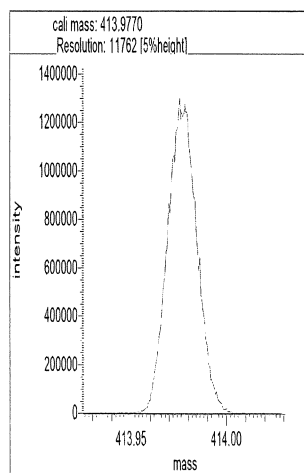
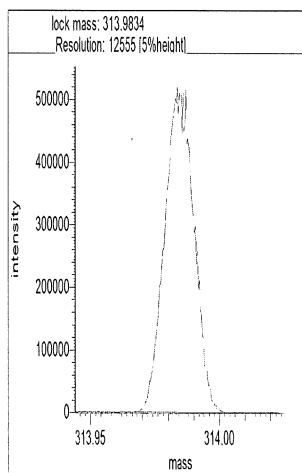


### Segment 3

Lock mass 313.9834 [m/z] Resolution: 12555 [5%height]

Cali. mass 413.9770 [m/z] Resolution: 11762 [5%height]

Ref. mass 375.9802 [m/z] Resolution: 12701 [5%height]



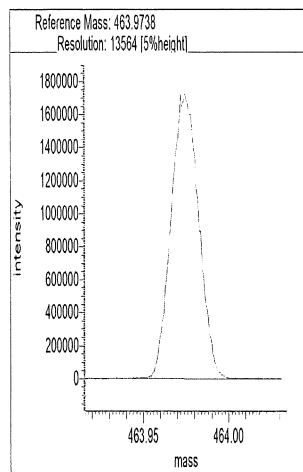
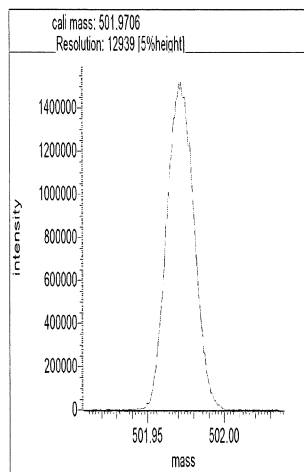
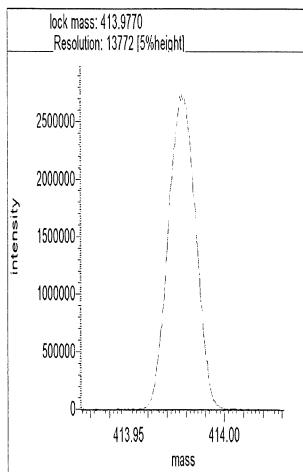
### Segment 4

Lock mass 413.9770 [m/z] Resolution: 13772 [5%height]

Cali. mass 501.9706 [m/z] Resolution: 12939 [5%height]

Ref. mass 463.9738 [m/z] Resolution: 13564 [5%height]





## Reports

23:39:24: Peak matching procedure started  
23:39:25:  
23:39:25: Reference mass: 168.98827  
23:39:26: Sample mass: 214.0  
23:39:26:  
23:39:27: Finding reference mass  
23:39:28: Finding sample mass  
23:39:29:  
23:39:34: [1] 213.9904 amu, mean: 213.9904  
23:39:37: [2] 213.9902 amu, mean: 213.9903 SD: 0.15 mmu or: 0.72 ppm  
23:39:41: [3] 213.9904 amu, mean: 213.9903 SD: 0.12 mmu or: 0.56 ppm  
23:39:44: [4] 213.9906 amu, mean: 213.9904 SD: 0.18 mmu or: 0.85 ppm  
23:39:44:  
23:39:44: Stop requested. Please wait for procedure to finish.  
23:39:44:  
23:39:47:  
23:39:47: Peakmatching stopped

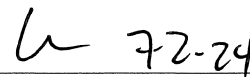
Signature

Handwritten signature in black ink, appearing to be 'LL 7-2-24'.

## Reports

23:40:02: Peak matching procedure started  
23:40:02:  
23:40:03: Reference mass: 213.98975  
23:40:03: Sample mass: 264.0  
23:40:04:  
23:40:04: Finding reference mass  
23:40:05: Finding sample mass  
23:40:06:  
23:40:11: [1] 263.9880 amu, mean: 263.9880  
23:40:15: [2] 263.9875 amu, mean: 263.9877 SD: 0.34 mmu or: 1.29 ppm  
23:40:18: [3] 263.9875 amu, mean: 263.9877 SD: 0.27 mmu or: 1.01 ppm  
23:40:21: [4] 263.9877 amu, mean: 263.9877 SD: 0.22 mmu or: 0.83 ppm  
23:40:22:  
23:40:22: Stop requested. Please wait for procedure to finish.  
23:40:22:  
23:40:24:  
23:40:25: Peakmatching stopped


Signature

Handwritten signature in black ink, appearing to be "L 72-24".

## Reports

23:40:42: Peak matching procedure started  
23:40:42:  
23:40:43: Reference mass: 263.98656  
23:40:43: Sample mass: 314.0  
23:40:44:  
23:40:44: Finding reference mass  
23:40:45: Finding sample mass  
23:40:45:  
23:40:51: [1] 313.9845 amu, mean: 313.9845  
23:40:54: [2] 313.9847 amu, mean: 313.9846 SD: 0.10 mmu or: 0.33 ppm  
23:40:58: [3] 313.9845 amu, mean: 313.9846 SD: 0.09 mmu or: 0.29 ppm  
23:41:01: [4] 313.9849 amu, mean: 313.9846 SD: 0.17 mmu or: 0.53 ppm  
23:41:02:  
23:41:02: Stop requested. Please wait for procedure to finish.  
23:41:02:  
23:41:04:  
23:41:04: Peakmatching stopped

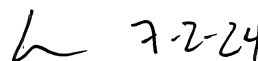
Signature

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## Reports

23:41:26: Peak matching procedure started  
23:41:27:  
23:41:27: Reference mass: 313.98336  
23:41:28: Sample mass: 376.0  
23:41:28:  
23:41:29: Finding reference mass  
23:41:30: Finding sample mass  
23:41:30:  
23:41:36: [1] 375.9813 amu, mean: 375.9813  
23:41:39: [2] 375.9815 amu, mean: 375.9814 SD: 0.14 mmu or: 0.38 ppm  
23:41:42: [3] 375.9808 amu, mean: 375.9812 SD: 0.34 mmu or: 0.92 ppm  
23:41:46: [4] 375.9813 amu, mean: 375.9812 SD: 0.29 mmu or: 0.76 ppm  
23:41:46:  
23:41:46: Stop requested. Please wait for procedure to finish.  
23:41:46:  
23:41:49:  
23:41:49: Peakmatching stopped


Signature

Handwritten signature in black ink, appearing to be "L 7-2-24".

## Reports

23:41:26: Peak matching procedure started  
23:41:27:  
23:41:27: Reference mass: 313.98336  
23:41:28: Sample mass: 376.0  
23:41:28:  
23:41:29: Finding reference mass  
23:41:30: Finding sample mass  
23:41:30:  
23:41:36: [1] 375.9813 amu, mean: 375.9813  
23:41:39: [2] 375.9815 amu, mean: 375.9814 SD: 0.14 mmu or: 0.38 ppm  
23:41:42: [3] 375.9808 amu, mean: 375.9812 SD: 0.34 mmu or: 0.92 ppm  
23:41:46: [4] 375.9813 amu, mean: 375.9812 SD: 0.29 mmu or: 0.76 ppm  
23:41:46:  
23:41:46: Stop requested. Please wait for procedure to finish.  
23:41:46:  
23:41:49:  
23:41:49: Peakmatching stopped


Signature

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## Reports

23:42:23: Peak matching procedure started  
23:42:23:  
23:42:24: Reference mass: 375.98017  
23:42:24: Sample mass: 414.0  
23:42:25:  
23:42:25: Finding reference mass  
23:42:26: Finding sample mass  
23:42:27:  
23:42:33: [1] 413.9773 amu, mean: 413.9773  
23:42:36: [2] 413.9777 amu, mean: 413.9775 SD: 0.30 mmu or: 0.72 ppm  
23:42:39: [3] 413.9781 amu, mean: 413.9777 SD: 0.38 mmu or: 0.92 ppm  
23:42:42: [4] 413.9785 amu, mean: 413.9779 SD: 0.49 mmu or: 1.18 ppm  
23:42:43:  
23:42:43: Stop requested. Please wait for procedure to finish.  
23:42:43:  
23:42:45:  
23:42:46: Peakmatching stopped


Signature

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## Reports

23:43:04: Peak matching procedure started  
23:43:04:  
23:43:05: Reference mass: 413.97698  
23:43:05: Sample mass: 464.0  
23:43:06:  
23:43:06: Finding reference mass  
23:43:07: Finding sample mass  
23:43:08:  
23:43:14: [1] 463.9751 amu, mean: 463.9751  
23:43:17: [2] 463.9755 amu, mean: 463.9753 SD: 0.28 mmu or: 0.59 ppm  
23:43:20: [3] 463.9744 amu, mean: 463.9750 SD: 0.54 mmu or: 1.16 ppm  
23:43:23: [4] 463.9745 amu, mean: 463.9749 SD: 0.51 mmu or: 1.11 ppm  
23:43:24:  
23:43:24: Stop requested. Please wait for procedure to finish.  
23:43:24:  
23:43:27:  
23:43:27: Peakmatching stopped

Signature

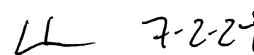
 7-2-24



## Reports

23:43:48: Peak matching procedure started  
23:43:49:  
23:43:49: Reference mass: 463.97378  
23:43:50: Sample mass: 502.0  
23:43:50:  
23:43:51: Finding reference mass  
23:43:52: Finding sample mass  
23:43:52:  
23:43:58: [1] 501.9710 amu, mean: 501.9710  
23:44:01: [2] 501.9709 amu, mean: 501.9710 SD: 0.08 mmu or: 0.17 ppm  
23:44:04: [3] 501.9705 amu, mean: 501.9708 SD: 0.29 mmu or: 0.58 ppm  
23:44:08: [4] 501.9710 amu, mean: 501.9708 SD: 0.25 mmu or: 0.50 ppm  
23:44:08:  
23:44:08: Stop requested. Please wait for procedure to finish.  
23:44:08:  
23:44:11:  
23:44:11: Peakmatching stopped

Signature

Handwritten signature in black ink, appearing to be 'LL' followed by '7-2-27'.

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Lims ID: WDMCCV  
Client ID:  
Sample Type: WDMCCV  
Inject. Date: 02-Jul-2024 17:01:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033352-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub2  
  
Method: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 02-Jul-2024 19:15:20 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1606

First Level Reviewer: V4XA

Date: 02-Jul-2024 19:15:20

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					140.8	140.8	0.1228	0.1228		
D PCB-1L	11:40	17283057	3.19	1.6108	111.7	111.7	0.2080	0.2080	112	
D PCB-3L	13:49	16050132	3.21	1.5891	105.1	105.1	0.2108	0.2108	105	
PCB-1	11:41	9857234	3.07	1.2191	46.8	46.8	0.1039	0.1039	93.57	
PCB-2	13:39	9158042	3.06	1.1805	46.5	46.5	0.1236	0.1236	93.09	
PCB-3	13:50	9297843	3.05	1.2206	47.5	47.5	0.1409	0.1409	94.92	
S Total Dichlorobiphenyls					646.3	646.3	0.0335	0.0335		
D PCB-4L	14:05	6297074	1.62	0.6475	101.2	101.2	0.0793	0.0793	101	
* PCB-9L	16:02	9607503	1.65		100.0	100.0				
\$ PCB-8L	16:52	4634481	1.63	1.2066	48.3	48.3	0.0534	0.0534	96.66	
D PCB-15L	19:56	9597563	1.64	1.0789	92.6	92.6	0.0476	0.0476	92.59	
PCB-4	14:05	4227531	1.64	1.2818	52.4	52.4	0.0373	0.0373	105	
PCB-10	14:16	5967008	1.64	1.3149	57.1	57.1	0.0351	0.0351	114	
PCB-9	16:03	6148494	1.61	1.4224	54.4	54.4	0.0324	0.0324	109	
PCB-7	16:12	6087418	1.59	1.4134	54.2	54.2	0.0326	0.0326	108	
PCB-6	16:27	6684567	1.63	1.5421	54.5	54.5	0.0299	0.0299	109	
PCB-5	16:45	5760497	1.60	1.3395	54.1	54.1	0.0344	0.0344	108	
PCB-8	16:53	6869379	1.63	1.5889	54.4	54.4	0.0290	0.0290	109	
PCB-14	18:30	5894096	1.60	1.4025	52.9	52.9	0.0329	0.0329	106	
PCB-11	19:21	5464498	1.64	1.2951	53.1	53.1	0.0356	0.0356	106	
PCB-12	19:39	11159076	1.61	1.3358	105.1	105.1	0.0345	0.0345	105	
PCB-13 (C12)	19:39	11159076	1.61	1.3358	105.1	105.1	0.0345	0.0345	105	
PCB-15	19:57	6697732	1.59	1.2903	54.1	54.1	0.0346	0.0346	108	
S Total Trichlorobiphenyls					1233.7	1233.7	0.5097	0.5097		
D PCB-19L	17:10	3719590	1.05	0.6285	97.0	97.0	0.1941	0.1941	96.97	
* PCB-32L	20:25	6102636	1.15		100.0	100.0				
* PCB-31L	22:39	14562922	1.05		100.0	100.0				
\$ PCB-28L	22:57	7188313	1.05	1.0494	47.0	47.0	0.0839	0.0839	94.07	
D PCB-37L	26:57	12038267	1.06	0.8749	94.5	94.5	0.1007	0.1007	94.48	
PCB-19	17:12	2544552	1.08	1.2809	53.4	53.4	0.0450	0.0450	107	
PCB-18	19:00	6731448	1.06	1.7652	102.5	102.5	0.0326	0.0326	103	
PCB-30 (C18)	19:00	6731448	1.06	1.7652	102.5	102.5	0.0326	0.0326	103	
PCB-17	19:27	2345499	1.07	1.2430	50.7	50.7	0.0464	0.0464	101	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-27	19:41	3597199	1.04	1.8327	52.8	52.8	0.0314	0.0314	106	
PCB-24	19:48	3177932	1.06	1.6777	50.9	50.9	0.0343	0.0343	102	
PCB-16	19:55	2309991	1.03	1.1286	55.0	55.0	0.0511	0.0511	110	
PCB-32	20:25	3668856	1.09	1.8324	53.8	53.8	0.0314	0.0314	108	
PCB-34	21:40	7153094	1.03	1.1277	52.7	52.7	0.7701	0.7701	105	
PCB-23	21:49	6778522	1.05	1.0813	52.1	52.1	0.8032	0.8032	104	
PCB-26	22:09	13881993	1.03	1.1255	102.5	102.5	0.7717	0.7717	102	
PCB-29 (C26)	22:09	13881993	1.03	1.1255	102.5	102.5	0.7717	0.7717	102	
PCB-25	22:22	7997850	1.04	1.2728	52.2	52.2	0.6823	0.6823	104	M
PCB-31	22:41	7020403	1.09	1.1532	50.6	50.6	0.7531	0.7531	101	M
PCB-20	22:59	14248143	1.04	1.1718	101.0	101.0	0.7411	0.7411	101	
PCB-28 (C20)	22:59	14248143	1.04	1.1718	101.0	101.0	0.7411	0.7411	101	
PCB-21	23:13	13469932	1.02	1.0746	104.1	104.1	0.8082	0.8082	104	M
PCB-33 (C21)	23:13	13469932	1.02	1.0746	104.1	104.1	0.8082	0.8082	104	M
PCB-22	23:37	7466668	1.05	1.1932	52.0	52.0	0.7278	0.7278	104	
PCB-36	25:10	6738660	0.99	1.1071	50.6	50.6	0.7845	0.7845	101	
PCB-39	25:31	7030907	1.04	1.1581	50.4	50.4	0.7499	0.7499	101	
PCB-38	26:06	6388110	0.97	1.0843	48.9	48.9	0.8009	0.8009	97.88	
PCB-35	26:34	6721337	1.02	1.1297	49.4	49.4	0.7688	0.7688	98.85	
PCB-37	26:59	6619202	1.05	1.1435	48.1	48.1	0.7595	0.7595	96.17	
S Total Tetrachlorobiphenyls					2098.3	2098.3	0.3531	0.3531		
D PCB-54L	20:14	3688439	0.82	0.5562	108.7	108.7	0.0190	0.0190	109	M
* PCB-52L	24:47	7822891	0.82		100.0	100.0				
\$ PCB-79L	32:41	4702087	0.80	1.0018	50.2	50.2	0.4583	0.4583	100	
D PCB-81L	33:40	9169008	0.82	1.2470	94.0	94.0	0.3709	0.3709	93.99	
D PCB-77L	34:14	9531145	0.82	1.3212	92.2	92.2	0.3501	0.3501	92.22	
PCB-54	20:16	2309358	0.75	1.2733	49.2	49.2	0.0245	0.0245	98.34	
PCB-50	22:25	8346544	0.80	0.8578	104.1	104.1	0.4539	0.4539	104	
PCB-53 (C50)	22:25	8346544	0.80	0.8578	104.1	104.1	0.4539	0.4539	104	
PCB-45	23:09	8077606	0.81	0.8264	104.5	104.5	0.4711	0.4711	105	M
PCB-51 (C45)	23:09	8077606	0.81	0.8264	104.5	104.5	0.4711	0.4711	105	M
PCB-46	23:24	3454845	0.79	0.7101	52.0	52.0	0.5483	0.5483	104	
PCB-52	24:48	4417066	0.76	0.9194	51.4	51.4	0.4234	0.4234	103	
PCB-43	24:57	9899010	0.76	1.0333	102.5	102.5	0.3768	0.3768	102	M
PCB-73 (C43)	24:57	9899010	0.76	1.0333	102.5	102.5	0.3768	0.3768	102	M
PCB-49	25:13	10182477	0.78	1.0685	101.9	101.9	0.3643	0.3643	102	
PCB-69 (C49)	25:13	10182477	0.78	1.0685	101.9	101.9	0.3643	0.3643	102	
PCB-48	25:34	3955711	0.78	0.8399	50.4	50.4	0.4635	0.4635	101	
PCB-44	25:48	13601255	0.78	0.9731	149.5	149.5	0.4001	0.4001	99.66	
PCB-47 (C44)	25:48	13601255	0.78	0.9731	149.5	149.5	0.4001	0.4001	99.66	
PCB-65 (C44)	25:48	13601255	0.78	0.9731	149.5	149.5	0.4001	0.4001	99.66	
PCB-59	26:07	16381337	0.79	1.1853	147.8	147.8	0.3285	0.3285	98.54	
PCB-62 (C59)	26:07	16381337	0.79	1.1853	147.8	147.8	0.3285	0.3285	98.54	
PCB-75 (C59)	26:07	16381337	0.79	1.1853	147.8	147.8	0.3285	0.3285	98.54	
PCB-42	26:19	3978968	0.77	0.8097	52.6	52.6	0.4808	0.4808	105	
PCB-40	26:49	12393431	0.80	0.8863	149.5	149.5	0.4392	0.4392	99.70	M
PCB-41 (C40)	26:49	12393431	0.80	0.8863	149.5	149.5	0.4392	0.4392	99.70	M
PCB-71 (C40)	26:49	12393431	0.80	0.8863	149.5	149.5	0.4392	0.4392	99.70	M
PCB-64	27:02	5490459	0.77	1.1776	49.9	49.9	0.3306	0.3306	99.73	
PCB-72	27:51	5159914	0.80	1.0943	50.4	50.4	0.3558	0.3558	101	
PCB-68	28:08	5920064	0.78	1.2533	50.5	50.5	0.3106	0.3106	101	
PCB-57	28:34	5177816	0.78	1.0818	51.2	51.2	0.3599	0.3599	102	
PCB-58	28:48	6404461	0.77	1.3253	51.7	51.7	0.2937	0.2937	103	
PCB-67	28:57	6508098	0.77	1.4230	48.9	48.9	0.2736	0.2736	97.83	
PCB-63	29:13	5211591	0.77	1.1240	49.6	49.6	0.3464	0.3464	99.18	
PCB-61	29:34	22919983	0.79	1.2612	194.4	194.4	0.3087	0.3087	97.18	
PCB-70 (C61)	29:34	22919983	0.79	1.2612	194.4	194.4	0.3087	0.3087	97.18	
PCB-74 (C61)	29:34	22919983	0.79	1.2612	194.4	194.4	0.3087	0.3087	97.18	
PCB-76 (C61)	29:34	22919983	0.79	1.2612	194.4	194.4	0.3087	0.3087	97.18	
PCB-66	29:53	5904249	0.76	1.2583	50.2	50.2	0.3094	0.3094	100	
PCB-55	30:03	6206059	0.77	1.3236	50.1	50.1	0.2941	0.2941	100	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-56	30:34	5595294	0.78	1.2334	48.5	48.5	0.3156	0.3156	97.04	
PCB-60	30:46	5106887	0.76	1.1230	48.6	48.6	0.3467	0.3467	97.27	
PCB-80	31:10	6185303	0.77	1.3243	50.0	50.0	0.2940	0.2940	99.91	
PCB-79	32:42	6206431	0.78	1.4368	46.2	46.2	0.2710	0.2710	92.40	
PCB-78	33:15	5421713	0.77	1.1618	49.9	49.9	0.3351	0.3351	99.82	
PCB-81	33:42	4550874	0.79	1.0802	45.9	45.9	0.3579	0.3579	91.90	
PCB-77	34:16	4843158	0.80	1.0836	46.9	46.9	0.3618	0.3618	93.79	
S Total Pentachlorobiphenyls					2254.5	2254.5	0.2034	0.2034		
D PCB-104L	25:43	6583816	1.61	1.2161	104.7	104.7	0.0296	0.0296	105	
\$ PCB-95L	28:41	2295787	1.56	0.7218	48.3	48.3	0.0357	0.0357	96.62	
* PCB-101L	31:35	5173028	1.66		100.0	100.0				
\$ PCB-111L	34:16	3307491	1.60	1.3699	46.7	46.7	0.0263	0.0263	93.35	
D PCB-123L	36:14	9203176	1.59	0.9731	101.5	101.5	1.083	1.083	101	
D PCB-118L	36:33	9654035	1.63	1.0102	102.5	102.5	1.043	1.043	103	
D PCB-114L	37:05	9410390	1.57	0.9949	101.5	101.5	1.059	1.059	101	
D PCB-105L	37:44	9061788	1.56	0.9514	102.2	102.2	1.108	1.108	102	
* PCB-127L	39:12	9319195	1.59		100.0	100.0				
D PCB-126L	40:49	9109801	1.59	0.9439	103.6	103.6	1.117	1.117	104	
PCB-104	25:44	3479744	1.57	1.0087	52.4	52.4	0.0256	0.0256	105	
PCB-96	26:07	3651412	1.59	1.0940	50.7	50.7	0.0236	0.0236	101	
PCB-103	28:01	2869916	1.58	0.8741	49.9	49.9	0.0295	0.0295	99.73	
PCB-94	28:16	2451153	1.56	0.7640	48.7	48.7	0.0338	0.0338	97.46	
PCB-95	28:42	2670109	1.61	0.8033	50.5	50.5	0.0321	0.0321	101	
PCB-93	28:54	5563775	1.61	0.8429	100.3	100.3	0.0306	0.0306	100	
PCB-100 (C93)	28:54	5563775	1.61	0.8429	100.3	100.3	0.0306	0.0306	100	
PCB-98	29:04	5404991	1.62	0.8262	99.4	99.4	0.0312	0.0312	99.37	M
PCB-102 (C98)	29:04	5404991	1.62	0.8262	99.4	99.4	0.0312	0.0312	99.37	M
PCB-88	29:33	5290788	1.57	0.8013	100.3	100.3	0.0322	0.0322	100	
PCB-91 (C88)	29:33	5290788	1.57	0.8013	100.3	100.3	0.0322	0.0322	100	
PCB-84	29:48	2386381	1.55	0.7299	49.7	49.7	0.0353	0.0353	99.31	
PCB-89	30:16	2519883	1.62	0.7798	49.1	49.1	0.0331	0.0331	98.16	
PCB-121	30:39	4279699	1.61	1.2964	50.1	50.1	0.0199	0.0199	100	
PCB-92	31:02	2787971	1.55	0.8546	49.6	49.6	0.0302	0.0302	99.11	
PCB-90	31:36	9236065	1.64	0.9550	146.9	146.9	0.0270	0.0270	97.93	
PCB-101 (C90)	31:36	9236065	1.64	0.9550	146.9	146.9	0.0270	0.0270	97.93	
PCB-113 (C90)	31:36	9236065	1.64	0.9550	146.9	146.9	0.0270	0.0270	97.93	
PCB-83	32:11	5605927	1.61	0.8385	101.5	101.5	0.0308	0.0308	102	
PCB-99 (C83)	32:11	5605927	1.61	0.8385	101.5	101.5	0.0308	0.0308	102	
PCB-112	32:18	4532341	1.62	1.4111	48.8	48.8	0.0183	0.0183	97.57	
PCB-86	32:41	20203957	1.60	1.0473	293.0	293.0	0.0246	0.0246	97.67	M
PCB-87 (C86)	32:41	20203957	1.60	1.0473	293.0	293.0	0.0246	0.0246	97.67	M
PCB-97 (C86)	32:41	20203957	1.60	1.0473	293.0	293.0	0.0246	0.0246	97.67	M
PCB-109 (C86)	32:41	20203957	1.60	1.0473	293.0	293.0	0.0246	0.0246	97.67	M
PCB-119 (C86)	32:41	20203957	1.60	1.0473	293.0	293.0	0.0246	0.0246	97.67	M
PCB-125 (C86)	32:41	20203957	1.60	1.0473	293.0	293.0	0.0246	0.0246	97.67	M
PCB-85	33:24	10029804	1.57	1.0408	146.4	146.4	0.0248	0.0248	97.58	
PCB-116 (C85)	33:24	10029804	1.57	1.0408	146.4	146.4	0.0248	0.0248	97.58	
PCB-117 (C85)	33:24	10029804	1.57	1.0408	146.4	146.4	0.0248	0.0248	97.58	
PCB-110	33:37	7745313	1.59	1.1919	98.7	98.7	0.0216	0.0216	98.70	
PCB-115 (C110)	33:37	7745313	1.59	1.1919	98.7	98.7	0.0216	0.0216	98.70	
PCB-82	33:55	2659239	1.57	0.8303	48.6	48.6	0.0311	0.0311	97.29	
PCB-111	34:17	3909163	1.59	1.2125	49.0	49.0	0.0213	0.0213	97.94	
PCB-120	34:45	4703419	1.59	1.4762	48.4	48.4	0.0175	0.0175	96.78	
PCB-108	35:53	9830960	1.53	1.1405	92.8	92.8	0.5587	0.5587	92.81	
PCB-124 (C108)	35:53	9830960	1.53	1.1405	92.8	92.8	0.5587	0.5587	92.81	
PCB-107	36:08	5212580	1.61	1.2121	46.3	46.3	0.5257	0.5257	92.60	
PCB-123	36:15	4742940	1.54	1.0722	48.1	48.1	0.5907	0.5907	96.13	
PCB-106	36:21	4819949	1.56	1.0839	47.9	47.9	0.5879	0.5879	95.75	
PCB-118	36:34	5387937	1.52	1.2055	46.3	46.3	0.5071	0.5071	92.59	
PCB-122	36:55	4304255	1.55	0.9567	48.4	48.4	0.6660	0.6660	96.88	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-114	37:06	4923159	1.53	1.0842	48.3	48.3	0.5643	0.5643	96.51	
PCB-105	37:46	5050212	1.50	1.1879	46.9	46.9	0.5510	0.5510	93.83	
PCB-127	39:13	5064257	1.56	1.1394	47.9	47.9	0.5592	0.5592	95.71	
PCB-126	40:50	4979215	1.54	1.0976	49.8	49.8	0.6198	0.6198	99.59	
S Total Hexachlorobiphenyls					2042.1	2042.1	0.2454	0.2454		
D PCB-155L	31:21	5808053	1.28	1.0851	103.5	103.5	0.0191	0.0191	103	
\$ PCB-153L	38:24	3448981	1.27	0.9169	44.1	44.1	0.5257	0.5257	88.10	
* PCB-138L	39:40	6796490	1.29		100.0	100.0				
D PCB-167L	42:40	8527143	1.27	1.2572	99.8	99.8	0.3839	0.3839	99.79	
D PCB-156L	43:49	16832830	1.28	1.2106	204.6	204.6	0.3986	0.3986	102	
D PCB-157L (C156L)	43:49	16832830	1.28	1.2106	204.6	204.6	0.3986	0.3986	102	
D PCB-169L	47:02	8795890	1.27	1.2439	104.0	104.0	0.3880	0.3880	104	
PCB-155	31:22	2818649	1.22	0.9444	51.4	51.4	0.002364	0.002364	103	
PCB-152	31:35	2818090	1.28	0.9895	49.0	49.0	0.002257	0.002257	98.07	
PCB-150	31:45	3052668	1.28	1.0132	51.9	51.9	0.002204	0.002204	104	
PCB-136	32:08	2923233	1.28	1.0116	49.8	49.8	0.002207	0.002207	99.51	
PCB-145	32:24	2849965	1.27	0.9685	50.7	50.7	0.002306	0.002306	101	
PCB-148	33:55	2164719	1.29	0.7603	49.0	49.0	0.002937	0.002937	98.04	
PCB-135	34:30	4236436	1.27	0.7256	100.5	100.5	0.003078	0.003078	101	M
PCB-151 (C135)	34:30	4236436	1.27	0.7256	100.5	100.5	0.003078	0.003078	101	M
PCB-154	34:45	2365509	1.22	0.8129	50.1	50.1	0.002747	0.002747	100	
PCB-144	35:04	2290546	1.24	0.7852	50.2	50.2	0.002844	0.002844	100	
PCB-147	35:26	7231419	1.27	0.8950	94.6	94.6	0.3598	0.3598	94.63	
PCB-149 (C147)	35:26	7231419	1.27	0.8950	94.6	94.6	0.3598	0.3598	94.63	
PCB-134	35:44	6486010	1.26	0.7967	95.3	95.3	0.4042	0.4042	95.34	
PCB-143 (C134)	35:44	6486010	1.26	0.7967	95.3	95.3	0.4042	0.4042	95.34	
PCB-139	36:02	7097073	1.26	0.8769	94.8	94.8	0.3672	0.3672	94.79	
PCB-140 (C139)	36:02	7097073	1.26	0.8769	94.8	94.8	0.3672	0.3672	94.79	
PCB-131	36:14	3027847	1.26	0.7503	47.3	47.3	0.4292	0.4292	94.52	
PCB-142	36:23	3215223	1.23	0.7507	50.2	50.2	0.4290	0.4290	100	
PCB-132	36:42	3059627	1.28	0.7489	47.8	47.8	0.4300	0.4300	95.69	
PCB-133	37:11	3262243	1.25	0.8096	47.2	47.2	0.3978	0.3978	94.38	
PCB-165	37:35	4240076	1.27	1.0247	48.5	48.5	0.3142	0.3142	96.92	
PCB-146	37:50	4117203	1.26	0.9637	50.0	50.0	0.3342	0.3342	100	
PCB-161	37:58	4567625	1.25	1.1288	47.4	47.4	0.2853	0.2853	94.78	
PCB-153	38:28	9007725	1.25	1.0938	96.4	96.4	0.2944	0.2944	96.45	
PCB-168 (C153)	38:28	9007725	1.25	1.0938	96.4	96.4	0.2944	0.2944	96.45	
PCB-141	38:39	3561913	1.25	0.8755	47.6	47.6	0.3678	0.3678	95.29	
PCB-130	39:04	2851914	1.23	0.7051	47.4	47.4	0.4567	0.4567	94.73	
PCB-137	39:16	3233985	1.26	0.7767	48.8	48.8	0.4146	0.4146	97.53	
PCB-164	39:24	4458659	1.25	1.0382	50.3	50.3	0.3102	0.3102	101	
PCB-129	39:42	15290932	1.25	0.9464	189.2	189.2	0.3403	0.3403	94.61	M
PCB-138 (C129)	39:42	15290932	1.25	0.9464	189.2	189.2	0.3403	0.3403	94.61	M
PCB-160 (C129)	39:42	15290932	1.25	0.9464	189.2	189.2	0.3403	0.3403	94.61	M
PCB-163 (C129)	39:42	15290932	1.25	0.9464	189.2	189.2	0.3403	0.3403	94.61	M
PCB-158	40:05	5283431	1.27	1.3110	47.2	47.2	0.2456	0.2456	94.39	
PCB-128	40:55	8178276	1.27	0.9829	97.4	97.4	0.3276	0.3276	97.44	
PCB-166 (C128)	40:55	8178276	1.27	0.9829	97.4	97.4	0.3276	0.3276	97.44	
PCB-159	41:55	5597275	1.27	1.3856	47.3	47.3	0.2324	0.2324	94.61	
PCB-162	42:12	5168238	1.23	1.2571	48.1	48.1	0.2562	0.2562	96.29	
PCB-167	42:41	4609719	1.26	1.1159	48.4	48.4	0.2349	0.2349	96.89	
PCB-156	43:51	9327149	1.24	1.1104	99.8	99.8	0.3648	0.3648	99.80	
PCB-157 (C156)	43:51	9327149	1.24	1.1104	99.8	99.8	0.3648	0.3648	99.80	
PCB-169	47:04	4950571	1.28	1.1628	48.4	48.4	0.2344	0.2344	96.80	
S Total Heptachlorobiphenyls					1227.3	1227.3	0.0105	0.0105		
D PCB-188L	37:04	6746821	1.08	1.3133	97.0	97.0	0.0161	0.0161	97.05	
\$ PCB-178L	40:07	2400947	1.06	1.0313	44.0	44.0	0.0204	0.0204	87.96	
* PCB-180L	45:12	5293425	1.06		100.0	100.0				
D PCB-170L	46:28	4471416	1.06	0.8362	101.0	101.0	0.0252	0.0252	101	
D PCB-189L	49:34	11551614	1.05	1.4414	100.7	100.7	0.2913	0.2913	101	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-188	37:05	3883366	1.05	1.1350	50.7	50.7	0.000658	0.000658	101	
PCB-179	37:27	3910993	1.07	1.4276	48.8	48.8	0.000641	0.000641	97.68	
PCB-184	37:57	3877731	1.08	1.3672	50.6	50.6	0.000669	0.000669	101	
PCB-176	38:19	3470910	1.06	1.2331	50.2	50.2	0.000742	0.000742	100	
PCB-186	38:46	4260919	1.06	1.4737	51.5	51.5	0.000621	0.000621	103	
PCB-178	40:08	2498765	1.03	0.8946	49.8	49.8	0.001022	0.001022	99.59	
PCB-175	40:46	2728793	1.06	0.9524	51.1	51.1	0.000960	0.000960	102	
PCB-187	41:03	3206023	1.08	1.1018	51.9	51.9	0.000830	0.000830	104	
PCB-182	41:15	2737340	1.04	0.9247	52.8	52.8	0.000989	0.000989	106	
PCB-183	41:39	5419763	1.05	0.9825	98.3	98.3	0.000931	0.000931	98.35	Ma
PCB-185 (C183)	41:39	5419763	1.05	0.9825	98.3	98.3	0.000931	0.000931	98.35	Ma
PCB-174	41:54	2806621	1.08	0.9642	51.9	51.9	0.000949	0.000949	104	
PCB-177	42:20	2772648	1.06	0.9773	50.6	50.6	0.000936	0.000936	101	
PCB-181	42:43	2703055	1.02	0.9505	50.7	50.7	0.000962	0.000962	101	
PCB-171	42:56	5082547	1.06	0.9336	97.1	97.1	0.000980	0.000980	97.05	
PCB-173 (C171)	42:56	5082547	1.06	0.9336	97.1	97.1	0.000980	0.000980	97.05	
PCB-172	44:34	2468057	1.08	0.8519	51.7	51.7	0.001074	0.001074	103	
PCB-192	44:51	4047229	1.06	1.3459	53.6	53.6	0.000680	0.000680	107	
PCB-180	45:10	6942105	1.06	1.1676	106.0	106.0	0.000783	0.000783	106	
PCB-193 (C180)	45:10	6942105	1.06	1.1676	106.0	106.0	0.000783	0.000783	106	
PCB-191	45:34	3975527	1.05	1.2891	55.0	55.0	0.000710	0.000710	110	
PCB-170	46:28	2656978	1.06	1.1865	50.1	50.1	0.000996	0.000996	100	
PCB-190	47:00	4051350	1.06	1.3322	54.2	54.2	0.000687	0.000687	108	
PCB-189	49:34	5651851	1.05	0.9633	50.8	50.8	0.2033	0.2033	102	
S Total Octachlorobiphenyls					625.0	625.0	0.1101	0.1101		
D PCB-202L	42:26	4982037	0.90	0.9818	95.9	95.9	0.008813	0.008813	95.86	
* PCB-194L	51:39	7956504	0.94		100.0	100.0				
D PCB-205L	52:08	9467538	0.91	1.1786	101.0	101.0	0.0529	0.0529	101	
PCB-202	42:27	2690613	0.92	1.0359	52.1	52.1	0.0170	0.0170	104	
PCB-201	43:22	2547888	0.96	0.9754	52.4	52.4	0.0180	0.0180	105	
PCB-204	44:02	2684563	0.90	1.0485	51.4	51.4	0.0168	0.0168	103	
PCB-197	44:15	2844966	0.92	1.1458	49.8	49.8	0.0154	0.0154	99.68	
PCB-200	44:23	2747158	0.93	1.0072	54.7	54.7	0.0175	0.0175	109	
PCB-198	47:08	4545877	0.91	0.8698	104.9	104.9	0.0202	0.0202	105	
PCB-199 (C198)	47:08	4545877	0.91	0.8698	104.9	104.9	0.0202	0.0202	105	
PCB-196	47:49	2088446	0.92	0.7806	53.7	53.7	0.0225	0.0225	107	
PCB-203	48:01	2529312	0.92	0.9292	54.6	54.6	0.0189	0.0189	109	
PCB-195	49:21	3976280	0.89	0.8263	50.8	50.8	0.4082	0.4082	102	
PCB-194	51:41	4569225	0.89	0.9735	49.6	49.6	0.3465	0.3465	99.15	
PCB-205	52:09	5229579	0.91	1.0878	50.8	50.8	0.3101	0.3101	102	
S Total Nonachlorobiphenyls					145.6	145.6	0.1927	0.1927		
D PCB-208L	49:05	7923361	0.80	0.9576	104.0	104.0	0.1532	0.1532	104	
D PCB-206L	53:53	5767241	0.80	0.6947	104.3	104.3	0.2112	0.2112	104	
PCB-208	49:06	4449317	0.81	1.1374	49.4	49.4	0.1821	0.1821	98.74	
PCB-207	50:02	4629365	0.81	1.3756	49.2	49.2	0.1764	0.1764	98.33	
PCB-206	53:54	3620774	0.79	1.3346	47.0	47.0	0.2194	0.2194	94.08	
D PCB-209L	55:30	5685747	0.70	0.6669	107.2	107.2	0.0377	0.0377	107	
DCB Decachlorobiphenyl	55:31	3173422	0.72	1.1004	50.7	50.7	0.0108	0.0108	101	
S Polychlorinated biphenyls, Total					10323	10323	0.1855	0.1855		

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

61CV1668CS3\_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Lims ID: WDMCCV  
Client ID:  
Sample Type: WDMCCV  
Inject. Date: 02-Jul-2024 17:01:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033352-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub2  
Method: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 02-Jul-2024 19:15:20 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1606

First Level Reviewer: V4XA

Date: 02-Jul-2024 19:15:20

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:40	11:40	0	0.728	13153295	5258937	2519	6297	2088		
202.0766	11:40	11:40	0	0.728	4129762	1632803	1070	2675	1526	3.19(2.66-3.60)	
PCB-3L											
200.0795	13:49	13:49	0	0.861	12235290	3868832	2519	6297	1536		
202.0766	13:49	13:49	0	0.861	3814842	1205833	1070	2675	1127	3.21(2.66-3.60)	
PCB-1											
188.0393	11:41	11:41	0	1.001	7434827	2874633	2339	5847	1229		
190.0363	11:41	11:41	0	1.001	2422407	928114	1153	2882	805	3.07(2.66-3.60)	
PCB-2											
188.0393	13:39	13:39	0	0.989	6899809	2316985	2339	5847	991		
190.0363	13:39	13:39	0	0.989	2258233	751242	1153	2882	652	3.06(2.66-3.60)	
PCB-3											
188.0393	13:50	13:50	0	1.001	6999705	2199861	2339	5847	941		
190.0363	13:50	13:50	0	1.001	2298138	725590	1153	2882	629	3.05(2.66-3.60)	
PCB-4L											
234.0406	14:05	14:05	0	0.878	3892945	1270927	396	990	3209		
236.0376	14:05	14:05	0	0.878	2404129	791262	154	385	5138	1.62(1.33-1.79)	
PCB-9L											
234.0406	16:02	16:02	0		5976844	1667074	396	990	4210		
236.0376	16:01	16:02	-1		3630659	1011162	154	385	6566	1.65(1.33-1.79)	
PCB-8L											
234.0406	16:52	16:52	0	1.198	2872320	754450	396	990	1905		
236.0376	16:52	16:52	0	1.198	1762161	473717	154	385	3076	1.63(1.33-1.79)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:56	19:56	0	1.243	5958372	1364707	396	990	3446		
236.0376	19:56	19:56	0	1.243	3639191	844170	154	385	5482	1.64(1.33-1.79)	
PCB-4											
222.0003	14:05	14:05	0	1.001	2623281	857240	184	460	4659		
223.9974	14:05	14:05	0	1.001	1604250	526050	210	525	2505	1.64(1.33-1.79)	
PCB-10											
222.0003	14:16	14:16	0	1.013	3706956	1172166	184	460	6370		
223.9974	14:16	14:16	0	1.013	2260052	717162	210	525	3415	1.64(1.33-1.79)	
PCB-9											
222.0003	16:03	16:03	0	1.140	3788906	1101445	184	460	5986		
223.9974	16:03	16:03	0	1.140	2359588	676822	210	525	3223	1.61(1.33-1.79)	
PCB-7											
222.0003	16:12	16:12	0	1.151	3737276	1069749	184	460	5814		
223.9974	16:12	16:12	0	1.151	2350142	668625	210	525	3184	1.59(1.33-1.79)	
PCB-6											
222.0003	16:27	16:27	0	1.169	4138353	1131051	184	460	6147		
223.9974	16:27	16:27	0	1.169	2546214	701115	210	525	3339	1.63(1.33-1.79)	
PCB-5											
222.0003	16:45	16:45	0	1.191	3548351	992727	184	460	5395		
223.9974	16:45	16:45	0	1.191	2212146	619757	210	525	2951	1.60(1.33-1.79)	
PCB-8											
222.0003	16:53	16:53	0	1.200	4255987	1109379	184	460	6029		
223.9974	16:53	16:53	0	1.200	2613392	676128	210	525	3220	1.63(1.33-1.79)	
PCB-14											
222.0003	18:30	18:30	0	0.927	3625600	894892	184	460	4864		
223.9974	18:30	18:30	0	0.927	2268496	547901	210	525	2609	1.60(1.33-1.79)	
PCB-11											
222.0003	19:21	19:21	0	0.970	3397500	766579	184	460	4166		
223.9974	19:20	19:21	-1	0.970	2066998	469365	210	525	2235	1.64(1.33-1.79)	
PCB-12											
222.0003	19:39	19:39	0	0.985	6883087	1124163	184	460	6110		
223.9974	19:39	19:39	0	0.985	4275989	692731	210	525	3299	1.61(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:39	19:39	0	0.985	6883087	1124163	184	460	6110		
223.9974	19:39	19:39	0	0.985	4275989	692731	210	525	3299	1.61(1.33-1.79)	
PCB-15											
222.0003	19:57	19:57	0	1.001	4106790	886353	184	460	4817		
223.9974	19:57	19:57	0	1.001	2590942	549245	210	525	2615	1.59(1.33-1.79)	
PCB-19L											
268.0016	17:10	17:10	0	0.841	1906865	510294	488	1220	1046		
269.9986	17:11	17:10	1	0.842	1812725	473746	228	570	2078	1.05(0.88-1.20)	
PCB-32L											
268.0016	20:25	20:25	0		3267203	774789	488	1220	1588		
269.9986	20:25	20:25	0		2835433	692633	228	570	3038	1.15(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:39	22:39	0		7459696	1727759	662	1655	2610		
269.9986	22:39	22:39	0		7103226	1644038	526	1315	3126	1.05(0.88-1.20)	
PCB-28L											
268.0016	22:57	22:57	0	1.013	3689130	810136	662	1655	1224		
269.9986	22:57	22:57	0	1.013	3499183	767734	526	1315	1460	1.05(0.88-1.20)	
PCB-37L											
268.0016	26:57	26:57	0	1.190	6208407	1203308	662	1655	1818		
269.9986	26:57	26:57	0	1.190	5829860	1135291	526	1315	2158	1.06(0.88-1.20)	
PCB-19											
255.9613	17:12	17:12	0	1.002	1323583	362730	167	417	2172		
257.9584	17:12	17:12	0	1.002	1220969	334460	60	150	5574	1.08(0.88-1.20)	
PCB-18											
255.9613	19:00	19:00	0	1.106	3458079	572243	167	417	3427		
257.9584	19:00	19:00	0	1.106	3273369	537901	60	150	8965	1.06(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:00	19:00	0	1.106	3458079	572243	167	417	3427		
257.9584	19:00	19:00	0	1.106	3273369	537901	60	150	8965	1.06(0.88-1.20)	
PCB-17											
255.9613	19:27	19:27	0	1.133	1210011	296080	167	417	1773		
257.9584	19:27	19:27	0	1.133	1135488	280923	60	150	4682	1.07(0.88-1.20)	
PCB-27											
255.9613	19:41	19:41	0	1.146	1830234	465260	167	417	2786		
257.9584	19:41	19:41	0	1.146	1766965	440434	60	150	7341	1.04(0.88-1.20)	
PCB-24											
255.9613	19:48	19:48	0	1.153	1636753	422472	167	417	2530		
257.9584	19:48	19:48	0	1.153	1541179	388242	60	150	6471	1.06(0.88-1.20)	
PCB-16											
255.9613	19:55	19:55	0	1.161	1171827	279092	167	417	1671		
257.9584	19:55	19:55	0	1.161	1138164	268680	60	150	4478	1.03(0.88-1.20)	
PCB-32											
255.9613	20:25	20:25	0	1.190	1910386	454997	167	417	2725		
257.9584	20:25	20:25	0	1.190	1758470	428613	60	150	7144	1.09(0.88-1.20)	
PCB-34											
255.9613	21:40	21:40	0	1.263	3626990	878502	2306	5765	381		
257.9584	21:40	21:40	0	1.263	3526104	859460	5818	14545	148	1.03(0.88-1.20)	
PCB-23											
255.9613	21:49	21:49	0	1.272	3475457	797895	2306	5765	346		
257.9584	21:49	21:49	0	1.272	3303065	745432	5818	14545	128	1.05(0.88-1.20)	
PCB-26											
255.9613	22:09	22:09	0	1.290	7038981	1544628	2306	5765	670		
257.9584	22:09	22:09	0	1.290	6843012	1487677	5818	14545	256	1.03(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:09	22:09	0	1.290	7038981	1544628	2306	5765	670		
257.9584	22:09	22:09	0	1.290	6843012	1487677	5818	14545	256	1.03(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-25											M
255.9613	22:22	22:22	0	0.830	4082122	861492	2306	5765	374		
257.9584	22:22	22:22	0	0.830	3915728	840527	5818	14545	144	1.04(0.88-1.20)	M
PCB-31											M
255.9613	22:41	22:41	0	0.842	3663000	826270	2306	5765	358		
257.9584	22:41	22:41	0	0.842	3357403	793510	5818	14545	136	1.09(0.88-1.20)	M
PCB-20											
255.9613	22:59	22:59	0	0.853	7253706	1230057	2306	5765	533		
257.9584	22:59	22:59	0	0.853	6994437	1184150	5818	14545	204	1.04(0.88-1.20)	
PCB-28 (C20)											
255.9613	22:59	22:59	0	0.853	7253706	1230057	2306	5765	533		
257.9584	22:59	22:59	0	0.853	6994437	1184150	5818	14545	204	1.04(0.88-1.20)	
PCB-21											M
255.9613	23:13	23:13	0	0.861	6806797	804330	2306	5765	349		M
257.9584	23:09	23:13	-4	0.859	6663135	778659	5818	14545	134	1.02(0.88-1.20)	M
PCB-33 (C21)											M
255.9613	23:13	23:13	0	0.861	6806797	804330	2306	5765	349		M
257.9584	23:09	23:13	-4	0.859	6663135	778659	5818	14545	134	1.02(0.88-1.20)	M
PCB-22											
255.9613	23:37	23:37	0	0.876	3827382	822648	2306	5765	357		
257.9584	23:37	23:37	0	0.876	3639286	793535	5818	14545	136	1.05(0.88-1.20)	
PCB-36											
255.9613	25:10	25:10	0	0.934	3346798	657949	2306	5765	285		
257.9584	25:10	25:10	0	0.934	3391862	638901	5818	14545	110	0.99(0.88-1.20)	
PCB-39											
255.9613	25:31	25:31	0	0.947	3583525	753241	2306	5765	327		
257.9584	25:31	25:31	0	0.947	3447382	714266	5818	14545	123	1.04(0.88-1.20)	
PCB-38											
255.9613	26:06	26:06	0	0.968	3145529	664664	2306	5765	288		
257.9584	26:06	26:06	0	0.968	3242581	652663	5818	14545	112	0.97(0.88-1.20)	
PCB-35											
255.9613	26:34	26:34	0	0.986	3399682	657601	2306	5765	285		
257.9584	26:34	26:34	0	0.986	3321655	636596	5818	14545	109	1.02(0.88-1.20)	
PCB-37											
255.9613	26:59	26:59	0	1.001	3390057	640053	2306	5765	278		
257.9584	26:58	26:59	-1	1.000	3229145	610351	5818	14545	105	1.05(0.88-1.20)	
PCB-54L											M
301.9626	20:14	20:14	0	0.817	1656733	415373	59	147	7040		
303.9597	20:14	20:14	0	0.817	2031706	514662	3	7	171554	0.82(0.65-0.89)	M
PCB-52L											
301.9626	24:47	24:47	0		3516794	786345	1673	4182	470		
303.9597	24:47	24:47	0		4306097	952101	1543	3857	617	0.82(0.65-0.89)	
PCB-79L											
301.9626	32:41	32:41	0	0.970	2091059	413071	1673	4182	247		
303.9597	32:41	32:41	0	0.970	2611028	520412	1543	3857	337	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-81L											
301.9626	33:40	33:40	0	1.359	4119746	788958	1673	4182	472		
303.9597	33:40	33:40	0	1.359	5049262	974171	1543	3857	631	0.82(0.65-0.89)	
PCB-77L											
301.9626	34:14	34:14	0	1.382	4288281	773067	1673	4182	462		
303.9597	34:14	34:14	0	1.382	5242864	965813	1543	3857	626	0.82(0.65-0.89)	
PCB-54											
289.9224	20:16	20:16	0	1.000	991882	253861	60	150	4231		
291.9194	20:16	20:16	0	1.000	1317476	326399	56	140	5829	0.75(0.65-0.89)	
PCB-50											
289.9224	22:25	22:25	0	1.108	3701360	830028	1152	2880	721		
291.9194	22:25	22:25	-1	1.107	4645184	1042066	1575	3937	662	0.80(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:25	22:25	0	1.108	3701360	830028	1152	2880	721		
291.9194	22:25	22:25	-1	1.107	4645184	1042066	1575	3937	662	0.80(0.65-0.89)	
PCB-45											
289.9224	23:09	23:09	0	1.144	3614877	465324	1152	2880	404		M
291.9194	23:09	23:09	0	1.144	4462729	584844	1575	3937	371	0.81(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:09	23:09	0	1.144	3614877	465324	1152	2880	404		M
291.9194	23:09	23:09	0	1.144	4462729	584844	1575	3937	371	0.81(0.65-0.89)	M
PCB-46											
289.9224	23:24	23:24	0	1.156	1522844	340425	1152	2880	296		
291.9194	23:24	23:24	0	1.156	1932001	445818	1575	3937	283	0.79(0.65-0.89)	
PCB-52											
289.9224	24:48	24:48	0	1.225	1901836	448693	1152	2880	389		
291.9194	24:48	24:48	0	1.225	2515230	593340	1575	3937	377	0.76(0.65-0.89)	
PCB-43											
289.9224	24:57	24:57	0	1.232	4279260	578174	1152	2880	502		M
291.9194	24:57	24:57	0	1.232	5619750	762757	1575	3937	484	0.76(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:57	24:57	0	1.232	4279260	578174	1152	2880	502		M
291.9194	24:57	24:57	0	1.232	5619750	762757	1575	3937	484	0.76(0.65-0.89)	M
PCB-49											
289.9224	25:13	25:13	0	1.246	4473521	637769	1152	2880	554		
291.9194	25:13	25:13	0	1.246	5708956	822419	1575	3937	522	0.78(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:13	25:13	0	1.246	4473521	637769	1152	2880	554		
291.9194	25:13	25:13	0	1.246	5708956	822419	1575	3937	522	0.78(0.65-0.89)	
PCB-48											
289.9224	25:34	25:34	0	1.263	1735806	392715	1152	2880	341		
291.9194	25:34	25:34	0	1.263	2219905	509534	1575	3937	324	0.78(0.65-0.89)	
PCB-44											
289.9224	25:48	25:48	0	1.275	5969091	1157282	1152	2880	1005		
291.9194	25:48	25:48	0	1.275	7632164	1440124	1575	3937	914	0.78(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-47 (C44)											
289.9224	25:48	25:48	0	1.275	5969091	1157282	1152	2880	1005		
291.9194	25:48	25:48	0	1.275	7632164	1440124	1575	3937	914	0.78(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:48	25:48	0	1.275	5969091	1157282	1152	2880	1005		
291.9194	25:48	25:48	0	1.275	7632164	1440124	1575	3937	914	0.78(0.65-0.89)	
PCB-59											
289.9224	26:07	26:07	0	1.291	7222311	1078771	1152	2880	936		
291.9194	26:07	26:07	0	1.291	9159026	1386243	1575	3937	880	0.79(0.65-0.89)	
PCB-62 (C59)											
289.9224	26:07	26:07	0	1.291	7222311	1078771	1152	2880	936		
291.9194	26:07	26:07	0	1.291	9159026	1386243	1575	3937	880	0.79(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:07	26:07	0	1.291	7222311	1078771	1152	2880	936		
291.9194	26:07	26:07	0	1.291	9159026	1386243	1575	3937	880	0.79(0.65-0.89)	
PCB-42											
289.9224	26:19	26:19	0	1.301	1727532	367575	1152	2880	319		
291.9194	26:19	26:19	0	1.301	2251436	471731	1575	3937	300	0.77(0.65-0.89)	
PCB-40											
289.9224	26:49	26:49	0	1.325	5495593	857128	1152	2880	744		M
291.9194	26:49	26:49	0	1.325	6897838	1075357	1575	3937	683	0.80(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:49	26:49	0	1.325	5495593	857128	1152	2880	744		M
291.9194	26:49	26:49	0	1.325	6897838	1075357	1575	3937	683	0.80(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:49	26:49	0	1.325	5495593	857128	1152	2880	744		M
291.9194	26:49	26:49	0	1.325	6897838	1075357	1575	3937	683	0.80(0.65-0.89)	M
PCB-64											
289.9224	27:02	27:02	0	1.335	2390140	523280	1152	2880	454		
291.9194	27:02	27:02	0	1.335	3100319	643835	1575	3937	409	0.77(0.65-0.89)	
PCB-72											
289.9224	27:51	27:51	0	0.827	2293102	488672	1152	2880	424		
291.9194	27:51	27:51	0	0.827	2866812	615151	1575	3937	391	0.80(0.65-0.89)	
PCB-68											
289.9224	28:08	28:08	0	0.836	2594409	529002	1152	2880	459		
291.9194	28:08	28:08	0	0.836	3325655	668868	1575	3937	425	0.78(0.65-0.89)	
PCB-57											
289.9224	28:34	28:34	0	0.848	2263669	477791	1152	2880	415		
291.9194	28:34	28:34	0	0.848	2914147	627434	1575	3937	398	0.78(0.65-0.89)	
PCB-58											
289.9224	28:48	28:48	0	0.855	2792855	587080	1152	2880	510		
291.9194	28:48	28:48	0	0.855	3611606	739673	1575	3937	470	0.77(0.65-0.89)	
PCB-67											
289.9224	28:57	28:57	0	0.860	2836247	581392	1152	2880	505		
291.9194	28:57	28:57	0	0.860	3671851	739675	1575	3937	470	0.77(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-63											
289.9224	29:13	29:13	0	0.868	2263005	474326	1152	2880	412		
291.9194	29:13	29:13	0	0.868	2948586	607296	1575	3937	386	0.77(0.65-0.89)	
PCB-61											
289.9224	29:34	29:34	0	0.878	10083185	1167379	1152	2880	1013		
291.9194	29:34	29:34	0	0.878	12836798	1478863	1575	3937	939	0.79(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:34	29:34	0	0.878	10083185	1167379	1152	2880	1013		
291.9194	29:34	29:34	0	0.878	12836798	1478863	1575	3937	939	0.79(0.65-0.89)	
PCB-74 (C61)											
289.9224	29:34	29:34	0	0.878	10083185	1167379	1152	2880	1013		
291.9194	29:34	29:34	0	0.878	12836798	1478863	1575	3937	939	0.79(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:34	29:34	0	0.878	10083185	1167379	1152	2880	1013		
291.9194	29:34	29:34	0	0.878	12836798	1478863	1575	3937	939	0.79(0.65-0.89)	
PCB-66											
289.9224	29:53	29:53	0	0.888	2541240	514491	1152	2880	447		
291.9194	29:53	29:53	0	0.888	3363009	655915	1575	3937	416	0.76(0.65-0.89)	
PCB-55											
289.9224	30:03	30:03	0	0.893	2698159	562367	1152	2880	488		
291.9194	30:03	30:03	0	0.893	3507900	700001	1575	3937	444	0.77(0.65-0.89)	
PCB-56											
289.9224	30:34	30:34	0	0.908	2445656	508282	1152	2880	441		
291.9194	30:34	30:34	0	0.908	3149638	653559	1575	3937	415	0.78(0.65-0.89)	
PCB-60											
289.9224	30:46	30:46	0	0.914	2206947	453862	1152	2880	394		
291.9194	30:46	30:46	0	0.914	2899940	584365	1575	3937	371	0.76(0.65-0.89)	
PCB-80											
289.9224	31:10	31:10	0	0.926	2687954	544196	1152	2880	472		
291.9194	31:10	31:10	0	0.926	3497349	699445	1575	3937	444	0.77(0.65-0.89)	
PCB-79											
289.9224	32:42	32:42	0	0.971	2715010	501025	1152	2880	435		
291.9194	32:42	32:42	0	0.971	3491421	644901	1575	3937	409	0.78(0.65-0.89)	
PCB-78											
289.9224	33:15	33:15	0	0.987	2367184	436864	1152	2880	379		
291.9194	33:15	33:15	0	0.987	3054529	553641	1575	3937	352	0.77(0.65-0.89)	
PCB-81											
289.9224	33:42	33:42	0	1.001	2002168	382974	1152	2880	332		
291.9194	33:42	33:42	0	1.001	2548706	489833	1575	3937	311	0.79(0.65-0.89)	
PCB-77											
289.9224	34:16	34:16	0	1.001	2146546	400749	1152	2880	348		
291.9194	34:16	34:16	0	1.001	2696612	505663	1575	3937	321	0.80(0.65-0.89)	
PCB-104L											
337.9207	25:43	25:43	0	0.814	4061870	909478	75	187	12126		
339.9178	25:43	25:43	0	0.814	2521946	571321	78	195	7325	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-95L											
337.9207	28:41	28:41	0	1.115	1397665	287157	75	187	3829		
339.9178	28:41	28:41	0	1.115	898122	189660	78	195	2432	1.56(1.32-1.78)	
PCB-101L											
337.9207	31:35	31:35	0		3225098	652643	75	187	8702		
339.9178	31:35	31:35	0		1947930	407366	78	195	5223	1.66(1.32-1.78)	
PCB-111L											
337.9207	34:16	34:16	0	1.085	2036504	412659	75	187	5502		
339.9178	34:16	34:16	0	1.085	1270987	261175	78	195	3348	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:14	36:14	0	1.147	5646021	1090584	4041	10102	270		
339.9178	36:14	36:14	0	1.147	3557155	681321	3400	8500	200	1.59(1.32-1.78)	
PCB-118L											
337.9207	36:33	36:33	0	1.157	5976742	1128544	4041	10102	279		
339.9178	36:33	36:33	0	1.157	3677293	707033	3400	8500	208	1.63(1.32-1.78)	
PCB-114L											
337.9207	37:05	37:05	0	1.174	5754877	1115398	4041	10102	276		
339.9178	37:05	37:05	0	1.174	3655513	718838	3400	8500	211	1.57(1.32-1.78)	
PCB-105L											
337.9207	37:44	37:44	0	1.195	5519883	1047845	4041	10102	259		
339.9178	37:44	37:44	0	1.195	3541905	666782	3400	8500	196	1.56(1.32-1.78)	
PCB-127L											
337.9207	39:12	39:12	0		5716564	1091147	4041	10102	270		
339.9178	39:12	39:12	0		3602631	673721	3400	8500	198	1.59(1.32-1.78)	
PCB-126L											
337.9207	40:49	40:49	0	1.292	5595723	1015790	4041	10102	251		
339.9178	40:49	40:49	0	1.292	3514078	633761	3400	8500	186	1.59(1.32-1.78)	
PCB-104											
325.8804	25:44	25:44	0	1.001	2123737	480683	78	195	6163		
327.8775	25:44	25:44	0	1.001	1356007	302653	75	187	4035	1.57(1.32-1.78)	
PCB-96											
325.8804	26:07	26:07	0	1.016	2239581	501844	78	195	6434		
327.8775	26:07	26:07	0	1.016	1411831	315146	75	187	4202	1.59(1.32-1.78)	
PCB-103											
325.8804	28:01	28:01	0	1.090	1756993	389015	78	195	4987		
327.8775	28:01	28:01	0	1.090	1112923	240167	75	187	3202	1.58(1.32-1.78)	
PCB-94											
325.8804	28:16	28:16	0	1.099	1494999	317921	78	195	4076		
327.8775	28:16	28:16	0	1.099	956154	202072	75	187	2694	1.56(1.32-1.78)	
PCB-95											
325.8804	28:42	28:42	0	1.116	1648378	352145	78	195	4515		
327.8775	28:42	28:42	0	1.116	1021731	221794	75	187	2957	1.61(1.32-1.78)	
PCB-93											
325.8804	28:54	28:54	0	1.124	3430565	606175	78	195	7771		
327.8775	28:54	28:54	0	1.124	2133210	374743	75	187	4997	1.61(1.32-1.78)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-100 (C93)											
325.8804	28:54	28:54	0	1.124	3430565	606175	78	195	7771		
327.8775	28:54	28:54	0	1.124	2133210	374743	75	187	4997	1.61(1.32-1.78)	
PCB-98											
325.8804	29:04	29:04	0	1.130	3345630	419356	78	195	5376		M
327.8775	29:04	29:04	0	1.130	2059361	260968	75	187	3480	1.62(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:04	29:04	0	1.130	3345630	419356	78	195	5376		M
327.8775	29:04	29:04	0	1.130	2059361	260968	75	187	3480	1.62(1.32-1.78)	M
PCB-88											
325.8804	29:33	29:33	0	1.150	3235643	345323	78	195	4427		
327.8775	29:33	29:33	0	1.150	2055145	220033	75	187	2934	1.57(1.32-1.78)	
PCB-91 (C88)											
325.8804	29:33	29:33	0	1.150	3235643	345323	78	195	4427		
327.8775	29:33	29:33	0	1.150	2055145	220033	75	187	2934	1.57(1.32-1.78)	
PCB-84											
325.8804	29:48	29:48	0	1.159	1451230	301113	78	195	3860		
327.8775	29:48	29:48	0	1.159	935151	183504	75	187	2447	1.55(1.32-1.78)	
PCB-89											
325.8804	30:16	30:16	0	1.177	1556583	317586	78	195	4072		
327.8775	30:16	30:16	0	1.177	963300	197382	75	187	2632	1.62(1.32-1.78)	
PCB-121											
325.8804	30:39	30:39	0	1.192	2637188	542355	78	195	6953		
327.8775	30:39	30:39	0	1.192	1642511	339190	75	187	4523	1.61(1.32-1.78)	
PCB-92											
325.8804	31:02	31:02	0	0.857	1694920	349880	78	195	4486		
327.8775	31:02	31:02	0	0.857	1093051	227982	75	187	3040	1.55(1.32-1.78)	
PCB-90											
325.8804	31:36	31:36	0	1.229	5731696	849068	78	195	10885		
327.8775	31:36	31:36	0	1.229	3504369	533678	75	187	7116	1.64(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:36	31:36	0	1.229	5731696	849068	78	195	10885		
327.8775	31:36	31:36	0	1.229	3504369	533678	75	187	7116	1.64(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:36	31:36	0	1.229	5731696	849068	78	195	10885		
327.8775	31:36	31:36	0	1.229	3504369	533678	75	187	7116	1.64(1.32-1.78)	
PCB-83											
325.8804	32:11	32:11	0	1.252	3455368	440854	78	195	5652		
327.8775	32:11	32:11	0	1.252	2150559	276477	75	187	3686	1.61(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:11	32:11	0	1.252	3455368	440854	78	195	5652		
327.8775	32:11	32:11	0	1.252	2150559	276477	75	187	3686	1.61(1.32-1.78)	
PCB-112											
325.8804	32:18	32:18	0	1.257	2802511	554455	78	195	7108		
327.8775	32:19	32:18	1	1.257	1729830	336188	75	187	4483	1.62(1.32-1.78)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-86											M
325.8804	32:41	32:41	0	1.272	12443062	1291956	78	195	16564		M
327.8775	32:41	32:41	0	1.272	7760895	823115	75	187	10975	1.60(1.32-1.78)	M
PCB-87 (C86)											M
325.8804	32:41	32:41	0	1.272	12443062	1291956	78	195	16564		M
327.8775	32:41	32:41	0	1.272	7760895	823115	75	187	10975	1.60(1.32-1.78)	M
PCB-97 (C86)											M
325.8804	32:41	32:41	0	1.272	12443062	1291956	78	195	16564		M
327.8775	32:41	32:41	0	1.272	7760895	823115	75	187	10975	1.60(1.32-1.78)	M
PCB-109 (C86)											M
325.8804	32:41	32:41	0	1.272	12443062	1291956	78	195	16564		M
327.8775	32:41	32:41	0	1.272	7760895	823115	75	187	10975	1.60(1.32-1.78)	M
PCB-119 (C86)											M
325.8804	32:41	32:41	0	1.272	12443062	1291956	78	195	16564		M
327.8775	32:41	32:41	0	1.272	7760895	823115	75	187	10975	1.60(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:41	32:41	0	1.272	12443062	1291956	78	195	16564		M
327.8775	32:41	32:41	0	1.272	7760895	823115	75	187	10975	1.60(1.32-1.78)	M
PCB-85											
325.8804	33:24	33:24	0	1.299	6125433	727104	78	195	9322		
327.8775	33:24	33:24	0	1.299	3904371	446687	75	187	5956	1.57(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:24	33:24	0	1.299	6125433	727104	78	195	9322		
327.8775	33:24	33:24	0	1.299	3904371	446687	75	187	5956	1.57(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:24	33:24	0	1.299	6125433	727104	78	195	9322		
327.8775	33:24	33:24	0	1.299	3904371	446687	75	187	5956	1.57(1.32-1.78)	
PCB-110											
325.8804	33:37	33:37	0	1.308	4749718	654388	78	195	8390		
327.8775	33:37	33:37	0	1.308	2995595	398813	75	187	5318	1.59(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:37	33:37	0	1.308	4749718	654388	78	195	8390		
327.8775	33:37	33:37	0	1.308	2995595	398813	75	187	5318	1.59(1.32-1.78)	
PCB-82											
325.8804	33:55	33:55	0	1.319	1623111	310757	78	195	3984		
327.8775	33:55	33:55	0	1.319	1036128	193559	75	187	2581	1.57(1.32-1.78)	
PCB-111											
325.8804	34:17	34:17	0	1.334	2401083	487522	78	195	6250		
327.8775	34:17	34:17	0	1.334	1508080	302543	75	187	4034	1.59(1.32-1.78)	
PCB-120											
325.8804	34:45	34:45	0	1.352	2885763	567890	78	195	7281		
327.8775	34:45	34:45	0	1.352	1817656	363648	75	187	4849	1.59(1.32-1.78)	
PCB-108											
325.8804	35:53	35:53	0	1.396	5942227	1144147	2395	5987	478		
327.8775	35:53	35:53	0	1.396	3888733	736827	2094	5235	352	1.53(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-124 (C108)											
325.8804	35:53	35:53	0	1.396	5942227	1144147	2395	5987	478		
327.8775	35:53	35:53	0	1.396	3888733	736827	2094	5235	352	1.53(1.32-1.78)	
PCB-107											
325.8804	36:08	36:08	0	1.406	3214376	617846	2395	5987	258		
327.8775	36:08	36:08	0	1.406	1998204	405581	2094	5235	194	1.61(1.32-1.78)	
PCB-123											
325.8804	36:15	36:15	0	1.001	2875375	568161	2395	5987	237		
327.8775	36:15	36:15	0	1.001	1867565	373554	2094	5235	178	1.54(1.32-1.78)	
PCB-106											
325.8804	36:21	36:21	0	1.004	2935282	558064	2395	5987	233		
327.8775	36:21	36:21	0	1.004	1884667	359967	2094	5235	172	1.56(1.32-1.78)	
PCB-118											
325.8804	36:34	36:34	0	1.000	3246640	610400	2395	5987	255		
327.8775	36:34	36:34	0	1.000	2141297	390699	2094	5235	187	1.52(1.32-1.78)	
PCB-122											
325.8804	36:55	36:55	0	1.010	2618407	519186	2395	5987	217		
327.8775	36:55	36:55	0	1.010	1685848	340439	2094	5235	163	1.55(1.32-1.78)	
PCB-114											
325.8804	37:06	37:06	0	1.000	2973756	545004	2395	5987	228		
327.8775	37:06	37:06	0	1.000	1949403	355653	2094	5235	170	1.53(1.32-1.78)	
PCB-105											
325.8804	37:46	37:46	0	1.001	3026680	555889	2395	5987	232		
327.8775	37:46	37:46	0	1.001	2023532	360217	2094	5235	172	1.50(1.32-1.78)	
PCB-127											
325.8804	39:13	39:13	0	1.039	3086884	562043	2395	5987	235		
327.8775	39:13	39:13	0	1.039	1977373	369265	2094	5235	176	1.56(1.32-1.78)	
PCB-126											
325.8804	40:50	40:50	0	1.001	3016199	508187	2395	5987	212		
327.8775	40:50	40:50	0	1.001	1963016	338180	2094	5235	161	1.54(1.32-1.78)	
PCB-155L											
371.8817	31:21	31:21	0	0.790	3262939	681071	48	120	14189		
373.8788	31:21	31:21	0	0.790	2545114	528058	40	100	13201	1.28(1.05-1.43)	
PCB-153L											
371.8817	38:24	38:24	0	0.900	1931842	387394	1577	3942	246		
373.8788	38:24	38:24	0	0.900	1517139	293310	1004	2510	292	1.27(1.05-1.43)	
PCB-138L											
371.8817	39:40	39:40	0		3834416	758036	1577	3942	481		
373.8788	39:40	39:40	0		2962074	578888	1004	2510	577	1.29(1.05-1.43)	
PCB-167L											
371.8817	42:40	42:40	0	1.076	4772255	921391	1577	3942	584		
373.8788	42:40	42:40	0	1.076	3754888	722770	1004	2510	720	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:49	43:49	0	1.105	9461858	1197655	1577	3942	759		
373.8788	43:49	43:49	0	1.105	7370972	930471	1004	2510	927	1.28(1.05-1.43)	

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Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-157L (C156L)											
371.8817	43:49	43:49	0	1.105	9461858	1197655	1577	3942	759		
373.8788	43:49	43:49	0	1.105	7370972	930471	1004	2510	927	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:02	47:02	0	1.186	4915152	886451	1577	3942	562		
373.8788	47:03	47:02	1	1.186	3880738	695049	1004	2510	692	1.27(1.05-1.43)	
PCB-155											
359.8415	31:22	31:22	0	1.001	1550949	326560	9	22	36284		
361.8385	31:22	31:22	0	1.001	1267700	258098	2	5	129049	1.22(1.05-1.43)	
PCB-152											
359.8415	31:35	31:35	0	1.008	1583428	318271	9	22	35363		
361.8385	31:35	31:35	0	1.008	1234662	254891	2	5	127446	1.28(1.05-1.43)	
PCB-150											
359.8415	31:45	31:45	0	1.013	1716058	346012	9	22	38446		
361.8385	31:45	31:45	0	1.013	1336610	272724	2	5	136362	1.28(1.05-1.43)	
PCB-136											
359.8415	32:08	32:08	0	1.025	1642265	336273	9	22	37364		
361.8385	32:08	32:08	0	1.025	1280968	259141	2	5	129571	1.28(1.05-1.43)	
PCB-145											
359.8415	32:24	32:24	0	1.034	1591949	325553	9	22	36173		
361.8385	32:24	32:24	0	1.034	1258016	254711	2	5	127356	1.27(1.05-1.43)	
PCB-148											
359.8415	33:55	33:55	0	1.082	1220578	250486	9	22	27832		
361.8385	33:54	33:55	-1	1.082	944141	192188	2	5	96094	1.29(1.05-1.43)	
PCB-135											
359.8415	34:30	34:30	0	1.101	2366386	272985	9	22	30332		M
361.8385	34:30	34:30	0	1.101	1870050	217315	2	5	108658	1.27(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:30	34:30	0	1.101	2366386	272985	9	22	30332		M
361.8385	34:30	34:30	0	1.101	1870050	217315	2	5	108658	1.27(1.05-1.43)	M
PCB-154											
359.8415	34:45	34:45	0	1.108	1301739	256972	9	22	28552		
361.8385	34:45	34:45	0	1.108	1063770	211237	2	5	105619	1.22(1.05-1.43)	
PCB-144											
359.8415	35:04	35:04	0	1.119	1269648	260216	9	22	28913		
361.8385	35:04	35:04	0	1.119	1020898	200066	2	5	100033	1.24(1.05-1.43)	
PCB-147											
359.8415	35:26	35:26	0	1.131	4043545	821073	1173	2932	700		
361.8385	35:26	35:26	0	1.131	3187874	643493	551	1377	1168	1.27(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:26	35:26	0	1.131	4043545	821073	1173	2932	700		
361.8385	35:26	35:26	0	1.131	3187874	643493	551	1377	1168	1.27(1.05-1.43)	
PCB-134											
359.8415	35:44	35:44	0	1.140	3614498	396689	1173	2932	338		
361.8385	35:44	35:44	-1	1.140	2871512	298188	551	1377	541	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-143 (C134)											
359.8415	35:44	35:44	0	1.140	3614498	396689	1173	2932	338		
361.8385	35:44	35:44	-1	1.140	2871512	298188	551	1377	541	1.26(1.05-1.43)	
PCB-139											
359.8415	36:02	36:02	0	1.149	3952737	685647	1173	2932	585		
361.8385	36:02	36:02	0	1.149	3144336	541551	551	1377	983	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:02	36:02	0	1.149	3952737	685647	1173	2932	585		
361.8385	36:02	36:02	0	1.149	3144336	541551	551	1377	983	1.26(1.05-1.43)	
PCB-131											
359.8415	36:14	36:14	0	1.156	1685538	337860	1173	2932	288		
361.8385	36:14	36:14	0	1.156	1342309	258303	551	1377	469	1.26(1.05-1.43)	
PCB-142											
359.8415	36:23	36:23	0	1.161	1776479	354235	1173	2932	302		
361.8385	36:23	36:23	0	1.161	1438744	281910	551	1377	512	1.23(1.05-1.43)	
PCB-132											
359.8415	36:42	36:42	0	1.171	1716708	319293	1173	2932	272		
361.8385	36:42	36:42	0	1.171	1342919	264638	551	1377	480	1.28(1.05-1.43)	
PCB-133											
359.8415	37:11	37:11	0	1.186	1812173	360867	1173	2932	308		
361.8385	37:11	37:11	0	1.186	1450070	289547	551	1377	525	1.25(1.05-1.43)	
PCB-165											
359.8415	37:35	37:35	0	0.881	2369888	477720	1173	2932	407		
361.8385	37:35	37:35	0	0.881	1870188	371622	551	1377	674	1.27(1.05-1.43)	
PCB-146											
359.8415	37:50	37:50	0	0.887	2296701	460184	1173	2932	392		
361.8385	37:50	37:50	0	0.887	1820502	363633	551	1377	660	1.26(1.05-1.43)	
PCB-161											
359.8415	37:58	37:58	0	0.890	2535336	512191	1173	2932	437		
361.8385	37:58	37:58	0	0.890	2032289	404170	551	1377	734	1.25(1.05-1.43)	
PCB-153											
359.8415	38:28	38:28	0	0.901	5008390	726617	1173	2932	619		
361.8385	38:28	38:28	1	0.902	3999335	579346	551	1377	1051	1.25(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:28	38:28	0	0.901	5008390	726617	1173	2932	619		
361.8385	38:28	38:28	1	0.902	3999335	579346	551	1377	1051	1.25(1.05-1.43)	
PCB-141											
359.8415	38:39	38:39	0	0.906	1978092	367765	1173	2932	314		
361.8385	38:39	38:39	0	0.906	1583821	287004	551	1377	521	1.25(1.05-1.43)	
PCB-130											
359.8415	39:04	39:04	0	0.916	1575865	308806	1173	2932	263		
361.8385	39:03	39:04	-1	0.915	1276049	246032	551	1377	447	1.23(1.05-1.43)	
PCB-137											
359.8415	39:16	39:16	0	0.920	1806081	360409	1173	2932	307		
361.8385	39:16	39:16	0	0.920	1427904	276553	551	1377	502	1.26(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-164											
359.8415	39:24	39:24	0	0.923	2480447	480095	1173	2932	409		
361.8385	39:24	39:24	0	0.923	1978212	381847	551	1377	693	1.25(1.05-1.43)	
PCB-129											
359.8415	39:42	39:42	0	0.930	8488555	947272	1173	2932	808		M
361.8385	39:42	39:42	0	0.930	6802377	728001	551	1377	1321	1.25(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:42	39:42	0	0.930	8488555	947272	1173	2932	808		M
361.8385	39:42	39:42	0	0.930	6802377	728001	551	1377	1321	1.25(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:42	39:42	0	0.930	8488555	947272	1173	2932	808		M
361.8385	39:42	39:42	0	0.930	6802377	728001	551	1377	1321	1.25(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:42	39:42	0	0.930	8488555	947272	1173	2932	808		M
361.8385	39:42	39:42	0	0.930	6802377	728001	551	1377	1321	1.25(1.05-1.43)	M
PCB-158											
359.8415	40:05	40:05	0	0.939	2956242	557048	1173	2932	475		
361.8385	40:05	40:05	0	0.939	2327189	432993	551	1377	786	1.27(1.05-1.43)	
PCB-128											
359.8415	40:55	40:55	0	0.959	4573041	602925	1173	2932	514		
361.8385	40:55	40:55	0	0.959	3605235	480032	551	1377	871	1.27(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:55	40:55	0	0.959	4573041	602925	1173	2932	514		
361.8385	40:55	40:55	0	0.959	3605235	480032	551	1377	871	1.27(1.05-1.43)	
PCB-159											
359.8415	41:55	41:55	0	0.982	3136845	603369	1173	2932	514		
361.8385	41:55	41:55	0	0.982	2460430	483805	551	1377	878	1.27(1.05-1.43)	
PCB-162											
359.8415	42:12	42:12	0	0.989	2854577	521023	1173	2932	444		
361.8385	42:12	42:12	0	0.989	2313661	422510	551	1377	767	1.23(1.05-1.43)	
PCB-167											
359.8415	42:41	42:41	0	1.000	2571553	479133	1173	2932	408		
361.8385	42:41	42:41	0	1.000	2038166	379267	551	1377	688	1.26(1.05-1.43)	
PCB-156											
359.8415	43:51	43:51	0	1.001	5167828	662459	1173	2932	565		
361.8385	43:51	43:51	0	1.001	4159321	517203	551	1377	939	1.24(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:51	43:51	0	1.001	5167828	662459	1173	2932	565		
361.8385	43:51	43:51	0	1.001	4159321	517203	551	1377	939	1.24(1.05-1.43)	
PCB-169											
359.8415	47:04	47:04	0	1.001	2780147	484200	1173	2932	413		
361.8385	47:04	47:04	0	1.001	2170424	391022	551	1377	710	1.28(1.05-1.43)	
PCB-188L											
405.8428	37:04	37:04	0	0.820	3496604	694042	60	150	11567		
407.8398	37:04	37:04	0	0.820	3250217	646010	25	62	25840	1.08(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-178L											
405.8428	40:07	40:07	0	0.888	1237840	241054	60	150	4018		
407.8398	40:07	40:07	0	0.888	1163107	228505	25	62	9140	1.06(0.89-1.21)	
PCB-180L											
405.8428	45:12	45:12	0		2728887	528026	60	150	8800		
407.8398	45:11	45:12	-1		2564538	477403	25	62	19096	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:28	46:28	0	1.028	2300816	439347	60	150	7322		
407.8398	46:28	46:28	0	1.028	2170600	407176	25	62	16287	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:34	49:34	0	1.097	5927530	1079779	1575	3937	686		
407.8398	49:33	49:34	-1	1.096	5624084	1032546	877	2192	1177	1.05(0.89-1.21)	
PCB-188											
393.8025	37:05	37:05	0	1.000	1993540	390013	3	7	130004		
395.7995	37:05	37:05	0	1.000	1889826	379960	1	2	379960	1.05(0.89-1.21)	
PCB-179											
393.8025	37:27	37:27	0	1.010	2022369	387375	3	7	129125		
395.7995	37:27	37:27	0	1.010	1888624	358109	1	2	358109	1.07(0.89-1.21)	
PCB-184											
393.8025	37:57	37:57	0	1.024	2013505	399936	3	7	133312		
395.7995	37:57	37:57	0	1.024	1864226	368018	1	2	368018	1.08(0.89-1.21)	
PCB-176											
393.8025	38:19	38:19	0	1.034	1785426	350368	3	7	116789		
395.7995	38:19	38:19	0	1.034	1685484	332733	1	2	332733	1.06(0.89-1.21)	
PCB-186											
393.8025	38:46	38:46	0	1.046	2189031	436087	3	7	145362		
395.7995	38:46	38:46	0	1.046	2071888	405473	1	2	405473	1.06(0.89-1.21)	
PCB-178											
393.8025	40:08	40:08	0	1.083	1270535	250508	3	7	83503		
395.7995	40:08	40:08	0	1.083	1228230	246804	1	2	246804	1.03(0.89-1.21)	
PCB-175											
393.8025	40:46	40:46	0	1.100	1402766	282752	3	7	94251		
395.7995	40:46	40:46	0	1.100	1326027	257557	1	2	257557	1.06(0.89-1.21)	
PCB-187											
393.8025	41:03	41:03	0	1.107	1663255	328731	3	7	109577		
395.7995	41:02	41:03	-1	1.107	1542768	299916	1	2	299916	1.08(0.89-1.21)	
PCB-182											
393.8025	41:15	41:15	0	1.113	1392402	265959	3	7	88653		
395.7995	41:15	41:15	0	1.113	1344938	262224	1	2	262224	1.04(0.89-1.21)	
PCB-183											
393.8025	41:39	41:39	0	1.124	2779731	288544	3	7	96181		Ma
395.7995	41:39	41:39	0	1.124	2640032	277543	1	2	277543	1.05(0.89-1.21)	M
PCB-185 (C183)											
393.8025	41:39	41:39	0	1.124	2779731	288544	3	7	96181		Ma
395.7995	41:39	41:39	0	1.124	2640032	277543	1	2	277543	1.05(0.89-1.21)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-174											
393.8025	41:54	41:54	0	1.130	1454368	272399	3	7	90800		
395.7995	41:54	41:54	0	1.130	1352253	248715	1	2	248715	1.08(0.89-1.21)	
PCB-177											
393.8025	42:20	42:20	0	1.142	1425935	257428	3	7	85809		
395.7995	42:20	42:20	0	1.142	1346713	247035	1	2	247035	1.06(0.89-1.21)	
PCB-181											
393.8025	42:43	42:43	0	1.152	1366285	254096	3	7	84699		
395.7995	42:43	42:43	0	1.152	1336770	258128	1	2	258128	1.02(0.89-1.21)	
PCB-171											
393.8025	42:56	42:56	0	1.158	2613716	459360	3	7	153120		
395.7995	42:56	42:56	0	1.158	2468831	436063	1	2	436063	1.06(0.89-1.21)	
PCB-173 (C171)											
393.8025	42:56	42:56	0	1.158	2613716	459360	3	7	153120		
395.7995	42:56	42:56	0	1.158	2468831	436063	1	2	436063	1.06(0.89-1.21)	
PCB-172											
393.8025	44:34	44:34	0	0.899	1278753	244818	3	7	81606		
395.7995	44:34	44:34	0	0.899	1189304	229336	1	2	229336	1.08(0.89-1.21)	
PCB-192											
393.8025	44:51	44:51	0	0.905	2081494	405092	3	7	135031		
395.7995	44:51	44:51	0	0.905	1965735	374639	1	2	374639	1.06(0.89-1.21)	
PCB-180											
393.8025	45:10	45:10	0	0.911	3576886	499409	3	7	166470		
395.7995	45:11	45:10	1	0.912	3365219	473709	1	2	473709	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:10	45:10	0	0.911	3576886	499409	3	7	166470		
395.7995	45:11	45:10	1	0.912	3365219	473709	1	2	473709	1.06(0.89-1.21)	
PCB-191											
393.8025	45:34	45:34	0	0.919	2036104	394158	3	7	131386		
395.7995	45:34	45:34	0	0.919	1939423	366556	1	2	366556	1.05(0.89-1.21)	
PCB-170											
393.8025	46:28	46:28	0	0.938	1366662	254686	3	7	84895		
395.7995	46:29	46:28	1	0.938	1290316	236751	1	2	236751	1.06(0.89-1.21)	
PCB-190											
393.8025	47:00	47:00	0	0.948	2082452	392197	3	7	130732		
395.7995	46:59	47:00	-1	0.948	1968898	363841	1	2	363841	1.06(0.89-1.21)	
PCB-189											
393.8025	49:34	49:34	0	1.000	2892287	533085	623	1557	856		
395.7995	49:34	49:34	0	1.000	2759564	516432	1032	2580	500	1.05(0.89-1.21)	
PCB-202L											
439.8038	42:26	42:26	0	0.821	2361990	458968	32	80	14343		
441.8008	42:26	42:26	0	0.821	2620047	507302	3	7	169101	0.90(0.76-1.02)	
PCB-194L											
439.8038	51:39	51:39	0		3851246	708837	197	492	3598		
441.8008	51:39	51:39	0		4105258	751050	167	417	4497	0.94(0.76-1.02)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-205L											
439.8038	52:08	52:08	0	1.009	4510773	829234	197	492	4209		
441.8008	52:08	52:08	0	1.009	4956765	891918	167	417	5341	0.91(0.76-1.02)	
PCB-202											
427.7635	42:27	42:27	0	1.001	1288438	254220	21	52	12106		
429.7606	42:27	42:27	0	1.001	1402175	272290	47	117	5793	0.92(0.76-1.02)	
PCB-201											
427.7635	43:22	43:22	0	1.022	1247124	246684	21	52	11747		
429.7606	43:22	43:22	0	1.022	1300764	248446	47	117	5286	0.96(0.76-1.02)	
PCB-204											
427.7635	44:02	44:02	0	1.038	1273963	246835	21	52	11754		
429.7606	44:02	44:02	0	1.038	1410600	269442	47	117	5733	0.90(0.76-1.02)	
PCB-197											
427.7635	44:15	44:15	0	1.043	1365223	258273	21	52	12299		
429.7606	44:15	44:15	0	1.043	1479743	274628	47	117	5843	0.92(0.76-1.02)	
PCB-200											
427.7635	44:23	44:23	0	1.046	1322559	258088	21	52	12290		
429.7606	44:23	44:23	0	1.046	1424599	277598	47	117	5906	0.93(0.76-1.02)	
PCB-198											
427.7635	47:08	47:08	0	1.111	2163429	271263	21	52	12917		
429.7606	47:09	47:08	1	1.111	2382448	301478	47	117	6414	0.91(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:08	47:08	0	1.111	2163429	271263	21	52	12917		
429.7606	47:09	47:08	1	1.111	2382448	301478	47	117	6414	0.91(0.76-1.02)	
PCB-196											
427.7635	47:49	47:49	0	0.917	1003265	194700	21	52	9271		
429.7606	47:49	47:49	0	0.917	1085181	209268	47	117	4453	0.92(0.76-1.02)	
PCB-203											
427.7635	48:01	48:01	0	0.921	1212468	230024	21	52	10954		
429.7606	48:01	48:01	0	0.921	1316844	252008	47	117	5362	0.92(0.76-1.02)	
PCB-195											
427.7635	49:21	49:21	0	0.947	1875968	349441	1247	3117	280		
429.7606	49:21	49:21	0	0.947	2100312	383704	1075	2687	357	0.89(0.76-1.02)	
PCB-194											
427.7635	51:41	51:41	0	0.991	2150852	406604	1247	3117	326		
429.7606	51:41	51:41	0	0.991	2418373	447986	1075	2687	417	0.89(0.76-1.02)	
PCB-205											
427.7635	52:09	52:09	0	1.000	2487809	454493	1247	3117	364		
429.7606	52:09	52:09	0	1.000	2741770	498495	1075	2687	464	0.91(0.76-1.02)	
PCB-208L											
473.7648	49:05	49:05	0	0.950	3532254	660434	358	895	1845		
475.7619	49:05	49:05	0	0.950	4391107	821502	499	1247	1646	0.80(0.65-0.89)	
PCB-206L											
473.7648	53:53	53:53	0	1.043	2562449	468892	358	895	1310		
475.7619	53:52	53:53	-1	1.043	3204792	579479	499	1247	1161	0.80(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-208											
461.7246	49:06	49:06	0	1.000	1985822	378440	322	805	1175		
463.7216	49:06	49:06	0	1.000	2463495	474423	906	2265	524	0.81(0.65-0.89)	
PCB-207											
461.7246	50:02	50:02	0	1.019	2072784	394483	322	805	1225		
463.7216	50:02	50:02	0	1.019	2556581	476588	906	2265	526	0.81(0.65-0.89)	
PCB-206											
461.7246	53:54	53:54	0	1.000	1599555	302685	322	805	940		
463.7216	53:54	53:54	0	1.000	2021219	374407	906	2265	413	0.79(0.65-0.89)	
PCB-209L											
507.7258	55:30	55:30	0	1.074	2334540	415819	79	197	5264		
509.7229	55:30	55:30	0	1.074	3351207	609714	68	170	8966	0.70(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:31	55:31	0	1.000	1329274	244826	39	97	6278		
497.6826	55:31	55:31	0	1.000	1844148	338287	10	25	33829	0.72(0.59-0.79)	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

61CV1668CS3\_00018

Amount Added: 20.00

Units: uL

Eurofins Knoxville  
CCV Relative RT Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Lims ID: WDMCCV  
Client ID:  
Sample Type: WDMCCV  
Inject. Date: 02-Jul-2024 17:01:00 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033352-001  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Sublist: chrom-PCBs\_D2D\*sub2  
  
Method: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 02-Jul-2024 19:15:20 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1606  
  
First Level Reviewer: V4XA Date: 02-Jul-2024 19:15:20  
  
Start Cal Date: 31-May-2024 14:36:00  
End Cal Date: 31-May-2024 21:13:00

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-1L		11:34	11:40	7	15	0.7253	0.7278	0.717 - 0.7472
PCB-3L		13:43	13:49	6	15	0.8606	0.8614	0.849 - 0.8798
PCB-1	L	11:35	11:41	7		1.0011	1.0011	0.995 - 1.0085
PCB-2		13:34	13:39	6		0.9885	0.9886	0.985 - 0.9925
PCB-3	L	13:44	13:50	6		1.0010	1.0010	0.998 - 1.0048
PCB-4L		13:59	14:05	6	15	0.8771	0.8778	0.865 - 0.8956
PCB-9L		15:57	16:02	6		1.0000	1.0000	0.987 - 1.0128
PCB-8L		16:48	16:52	4		1.1991	1.1980	1.192 - 1.1989
PCB-15L		19:52	19:56	5	15	1.2459	1.2435	1.233 - 1.2530
PCB-4	L	14:00	14:05	6		1.0009	1.0009	0.994 - 1.0058
PCB-10		14:10	14:16	6		1.0132	1.0131	1.010 - 1.0168
PCB-9		15:58	16:03	5		1.1421	1.1401	1.135 - 1.1415
PCB-7		16:08	16:12	5		1.1534	1.1513	1.147 - 1.1538
PCB-6		16:22	16:27	6		1.1703	1.1690	1.164 - 1.1706
PCB-5		16:41	16:45	5		1.1929	1.1905	1.186 - 1.1926
PCB-8		16:48	16:53	6		1.2013	1.1999	1.194 - 1.2008
PCB-14		18:26	18:30	4		0.9278	0.9275	0.926 - 0.9305
PCB-11		19:16	19:21	5		0.9702	0.9703	0.968 - 0.9725
PCB-12/13		19:34	19:39	6		0.9848	0.9855	0.983 - 0.9875
PCB-15	L	19:53	19:57	4		1.0013	1.0007	0.997 - 1.0050
PCB-19L		17:05	17:10	5	15	0.8402	0.8409	0.831 - 0.8547
PCB-32L		20:20	20:25	5		1.0000	1.0000	0.998 - 1.0024
PCB-31L		22:37	22:39	3		1.0000	1.0000	0.998 - 1.0022
PCB-28L		22:55	22:57	2		1.0130	1.0130	1.006 - 1.0201

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-37L		26:54	26:57	3	15	1.1902	1.1897	1.178 - 1.1995
PCB-19	L	17:06	17:12	6		1.0008	1.0015	0.996 - 1.0058
PCB-18/30		18:57	19:00	3		1.1085	1.1064	1.104 - 1.1093
PCB-17		19:23	19:27	4		1.1347	1.1333	1.129 - 1.1352
PCB-27		19:37	19:41	4		1.1478	1.1463	1.141 - 1.1471
PCB-24		19:44	19:48	4		1.1547	1.1532	1.148 - 1.1542
PCB-16		19:51	19:55	5		1.1617	1.1608	1.156 - 1.1621
PCB-32		20:22	20:25	4		1.1917	1.1899	1.185 - 1.1908
PCB-34		21:37	21:40	3		1.2654	*1.2626	1.257 - 1.2623
PCB-23		21:47	21:49	3		1.2744	1.2715	1.266 - 1.2715
PCB-26/29		22:06	22:09	3		1.2931	1.2901	1.282 - 1.2915
PCB-25		22:19	22:22	3		0.8293	0.8297	0.829 - 0.8325
PCB-31		22:38	22:41	3		0.8412	0.8415	0.840 - 0.8438
PCB-20/28		22:56	22:59	3		0.8526	0.8529	0.851 - 0.8568
PCB-21/33		23:06	23:13	7		0.8588	0.8614	0.858 - 0.8637
PCB-22		23:33	23:37	4		0.8754	0.8761	0.875 - 0.8786
PCB-36		25:07	25:10	3		0.9334	0.9336	0.932 - 0.9352
PCB-39		25:28	25:31	3		0.9467	0.9468	0.945 - 0.9483
PCB-38		26:03	26:06	3		0.9681	0.9682	0.966 - 0.9695
PCB-35		26:31	26:34	3		0.9857	0.9858	0.984 - 0.9875
PCB-37	L	26:55	26:59	4		1.0005	1.0009	0.999 - 1.0024
PCB-54L		20:10	20:14	5	15	0.8149	0.8169	0.811 - 0.8247
PCB-52L		24:45	24:47	2		1.0000	1.0000	0.992 - 1.0083
PCB-79L		32:41	32:41	0		0.9707	0.9704	0.969 - 0.9718
PCB-81L		33:40	33:40	1	15	1.3604	1.3592	1.351 - 1.3641
PCB-77L		34:13	34:14	1	15	1.3832	1.3819	1.373 - 1.3867
PCB-54	L	20:12	20:16	5		1.0000	1.0000	0.996 - 1.0041
PCB-50/53		22:23	22:25	3		1.1097	1.1080	1.102 - 1.1106
PCB-45/51		23:06	23:09	3		1.1459	1.1440	1.137 - 1.1453
PCB-46		23:20	23:24	4		1.1573	1.1560	1.153 - 1.1576
PCB-52		24:46	24:48	2		1.2284	1.2255	1.222 - 1.2263
PCB-43/73		24:55	24:57	2		1.2353	1.2324	1.230 - 1.2346
PCB-49/69		25:12	25:13	2		1.2499	1.2463	1.242 - 1.2499
PCB-48		25:32	25:34	2		1.2665	1.2634	1.259 - 1.2636
PCB-44/47/65		25:47	25:48	2		1.2785	1.2748	1.269 - 1.2770
PCB-59/62/75		26:05	26:07	3		1.2931	1.2906	1.284 - 1.2919
PCB-42		26:17	26:19	3		1.3033	1.3007	1.296 - 1.3007
PCB-40/41/71		26:47	26:49	3		1.3280	*1.3253	1.317 - 1.3250
PCB-64		27:00	27:02	2		1.3388	1.3354	1.331 - 1.3355
PCB-72		27:50	27:51	1		0.8271	0.8269	0.826 - 0.8291
PCB-68		28:07	28:08	1		0.8354	0.8356	0.835 - 0.8375
PCB-57		28:33	28:34	1		0.8480	0.8481	0.847 - 0.8500
PCB-58		28:47	28:48	1		0.8552	0.8553	0.854 - 0.8574
PCB-67		28:57	28:57	1		0.8601	0.8599	0.859 - 0.8620
PCB-63		29:13	29:13	1		0.8677	0.8679	0.866 - 0.8694
PCB-61/70/74/76		29:33	29:34	1		0.8780	0.8781	0.875 - 0.8810

Compound	T/L	ICAL RT	CCV RT	RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-66		29:52	29:53	1		0.8875	0.8876	0.886 - 0.8894
PCB-55		30:02	30:03	2		0.8920	0.8925	0.891 - 0.8943
PCB-56		30:32	30:34	2		0.9072	0.9077	0.907 - 0.9098
PCB-60		30:45	30:46	1		0.9137	0.9138	0.913 - 0.9158
PCB-80		31:10	31:10	1		0.9259	0.9256	0.924 - 0.9268
PCB-79		32:42	32:42	0		0.9715	0.9711	0.970 - 0.9726
PCB-78		33:15	33:15	0		0.9878	0.9875	0.986 - 0.9890
PCB-81	T	33:41	33:42	1		1.0008	1.0008	0.999 - 1.0020
PCB-77	T/L	34:15	34:16	1		1.0007	1.0007	0.999 - 1.0019
PCB-104L		25:42	25:43	2	15	0.8129	0.8138	0.810 - 0.8199
PCB-95L		28:40	28:41	1		1.1155	1.1154	1.112 - 1.1179
PCB-101L		31:36	31:35	0		1.0000	1.0000	0.994 - 1.0065
PCB-111L		34:17	34:16	-1		1.0850	1.0846	1.079 - 1.0891
PCB-123L		36:15	36:14	0	15	1.1469	1.1468	1.141 - 1.1511
PCB-118L		36:34	36:33	0	15	1.1573	1.1572	1.151 - 1.1614
PCB-114L		37:06	37:05	0	15	1.1739	1.1739	1.168 - 1.1780
PCB-105L		37:44	37:44	0	15	1.1943	1.1947	1.188 - 1.1989
PCB-127L		39:13	39:12	-1		1.0000	1.0000	0.995 - 1.0053
PCB-126L		40:49	40:49	0	15	1.2917	1.2920	1.285 - 1.2956
PCB-104	L	25:42	25:44	2		1.0005	1.0010	0.998 - 1.0039
PCB-96		26:05	26:07	3		1.0149	1.0159	1.013 - 1.0195
PCB-103		28:01	28:01	1		1.0907	1.0900	1.087 - 1.0912
PCB-94		28:14	28:16	2		1.0991	1.0995	1.097 - 1.1003
PCB-95		28:41	28:42	1		1.1165	1.1164	1.113 - 1.1193
PCB-93/100		28:54	28:54	1		1.1250	1.1243	1.120 - 1.1267
PCB-98/102		29:03	29:04	1		1.1310	1.1303	1.127 - 1.1336
PCB-88/91		29:33	29:33	1		1.1499	1.1497	1.143 - 1.1505
PCB-84		29:46	29:48	3		1.1584	1.1591	1.157 - 1.1603
PCB-89		30:15	30:16	1		1.1773	1.1770	1.175 - 1.1786
PCB-121		30:40	30:39	0		1.1937	*1.1925	1.188 - 1.1922
PCB-92		31:02	31:02	1		0.8564	0.8568	0.856 - 0.8589
PCB-90/101/113		31:37	31:36	0		1.2306	1.2293	1.224 - 1.2307
PCB-83/99		32:12	32:11	0		1.2535	1.2521	1.245 - 1.2525
PCB-112		32:19	32:18	0		1.2580	1.2566	1.254 - 1.2574
PCB-86/87/97/109/119/125		32:41	32:41	0		1.2724	1.2715	1.265 - 1.2756
PCB-85/116/117		33:25	33:24	0		1.3008	1.2994	1.293 - 1.3007
PCB-110/115		33:36	33:37	2		1.3078	1.3078	1.303 - 1.3092
PCB-82		33:54	33:55	1		1.3198	1.3193	1.316 - 1.3194
PCB-111		34:19	34:17	-1		1.3357	*1.3337	1.329 - 1.3330
PCB-120		34:46	34:45	0		1.3531	*1.3516	1.348 - 1.3514
PCB-108/124		35:54	35:53	0		1.3975	1.3959	1.390 - 1.3967
PCB-107		36:09	36:08	0		1.4072	*1.4056	1.401 - 1.4049
PCB-123	T	36:16	36:15	0		1.0007	1.0007	1.000 - 1.0023
PCB-106		36:22	36:21	0		1.0036	1.0036	1.003 - 1.0057
PCB-118	T	36:35	36:34	0		1.0004	1.0004	0.999 - 1.0019
PCB-122		36:56	36:55	0		1.0101	1.0101	1.009 - 1.0117

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-114	T	37:07	37:06	0		1.0004	1.0004	0.999 - 1.0018
PCB-105	T	37:46	37:46	0		1.0007	1.0007	0.999 - 1.0018
PCB-127		39:14	39:13	-1		1.0397	1.0393	1.037 - 1.0399
PCB-126	T/L	40:51	40:50	0		1.0006	1.0006	1.000 - 1.0016
PCB-155L		31:22	31:21	-1	15	0.7904	0.7902	0.787 - 0.7951
PCB-153L		38:27	38:24	-2		0.9005	0.9002	0.899 - 0.9028
PCB-138L		39:41	39:40	-1		1.0000	1.0000	0.979 - 1.0208
PCB-167L		42:42	42:40	-2	15	1.0759	1.0755	1.071 - 1.0792
PCB-156L/157L		43:51	43:49	-2	15	1.1050	1.1047	1.100 - 1.1084
PCB-169L		47:05	47:02	-2	15	1.1862	1.1858	1.184 - 1.1864
PCB-155	L	31:24	31:22	-1		1.0008	1.0008	0.998 - 1.0031
PCB-152		31:35	31:35	1		1.0069	1.0077	1.006 - 1.0096
PCB-150		31:45	31:45	1		1.0122	1.0131	1.011 - 1.0144
PCB-136		32:07	32:08	1		1.0236	1.0249	1.024 - 1.0268
PCB-145		32:24	32:24	0		1.0330	1.0338	1.033 - 1.0358
PCB-148		33:56	33:55	0		1.0816	1.0820	1.080 - 1.0830
PCB-135/151		34:31	34:30	0		1.1004	1.1007	1.099 - 1.1038
PCB-154		34:46	34:45	-1		1.1085	1.1085	1.106 - 1.1107
PCB-144		35:05	35:04	0		1.1183	1.1187	1.117 - 1.1199
PCB-147/149		35:27	35:26	0		1.1301	1.1305	1.127 - 1.1326
PCB-134/143		35:45	35:44	0		1.1394	1.1402	1.136 - 1.1409
PCB-139/140		36:03	36:02	0		1.1490	1.1494	1.146 - 1.1515
PCB-131		36:15	36:14	0		1.1553	1.1561	1.154 - 1.1571
PCB-142		36:23	36:23	0		1.1599	1.1607	1.159 - 1.1621
PCB-132		36:42	36:42	0		1.1700	1.1708	1.168 - 1.1728
PCB-133		37:13	37:11	-1		1.1863	1.1863	1.184 - 1.1872
PCB-165		37:37	37:35	-1		0.8808	0.8808	0.880 - 0.8825
PCB-146		37:52	37:50	-1		0.8867	0.8867	0.886 - 0.8882
PCB-161		37:59	37:58	-1		0.8897	0.8898	0.889 - 0.8914
PCB-153/168		38:29	38:28	-1		0.9014	0.9015	0.900 - 0.9040
PCB-141		38:40	38:39	-1		0.9054	0.9058	0.905 - 0.9075
PCB-130		39:04	39:04	0		0.9150	0.9156	0.915 - 0.9172
PCB-137		39:18	39:16	-1		0.9202	0.9202	0.920 - 0.9224
PCB-164		39:25	39:24	-1		0.9230	0.9233	0.923 - 0.9252
PCB-129/138/160/163		39:44	39:42	-1		0.9304	0.9304	0.930 - 0.9349
PCB-158		40:06	40:05	-1		0.9393	0.9393	0.939 - 0.9409
PCB-128/166		40:57	40:55	-1		0.9590	0.9591	0.958 - 0.9617
PCB-159		41:58	41:55	-2		0.9828	0.9824	0.982 - 0.9839
PCB-162		42:15	42:12	-2		0.9895	0.9892	0.988 - 0.9907
PCB-167	T	42:43	42:41	-2		1.0006	1.0003	0.999 - 1.0016
PCB-156/157	T	43:53	43:51	-2		1.0006	1.0006	0.999 - 1.0025
PCB-169	T/L	47:06	47:04	-2		1.0006	1.0006	0.999 - 1.0015
PCB-188L		37:06	37:04	-1	15	0.8198	0.8201	0.817 - 0.8243
PCB-178L		40:09	40:07	-1		0.8875	0.8875	0.884 - 0.8916
PCB-180L		45:15	45:12	-3		1.0000	1.0000	0.996 - 1.0037
PCB-170L		46:30	46:28	-2	15	1.0276	1.0279	1.024 - 1.0317

Compound	T/L	ICAL RT	CCV RT	Δ RT (secs)	RT Lmt	ICAL RRT	CCV RRT	RRT Limits
PCB-189L		49:37	49:34	-3	15	1.0965	1.0965	1.093 - 1.1000
PCB-188	L	37:07	37:05	-2		1.0007	1.0004	1.000 - 1.0022
PCB-179		37:27	37:27	0		1.0096	1.0103	1.009 - 1.0115
PCB-184		37:59	37:57	-2		1.0241	1.0238	1.023 - 1.0254
PCB-176		38:20	38:19	-1		1.0333	1.0337	1.033 - 1.0351
PCB-186		38:48	38:46	-1		1.0457	1.0461	1.045 - 1.0476
PCB-178		40:10	40:08	-1		1.0830	1.0830	1.081 - 1.0837
PCB-175		40:48	40:46	-1		1.1000	1.1000	1.098 - 1.1008
PCB-187		41:05	41:03	-1		1.1074	1.1074	1.106 - 1.1082
PCB-182		41:17	41:15	-1		1.1127	1.1127	1.111 - 1.1137
PCB-183/185		41:42	41:39	-2		1.1241	1.1237	1.123 - 1.1260
PCB-174		41:56	41:54	-2		1.1305	1.1304	1.129 - 1.1313
PCB-177		42:22	42:20	-2		1.1422	1.1421	1.140 - 1.1430
PCB-181		42:45	42:43	-2		1.1524	1.1524	1.151 - 1.1535
PCB-171/173		42:58	42:56	-2		1.1585	1.1584	1.156 - 1.1602
PCB-172		44:37	44:34	-2		0.8993	0.8993	0.899 - 0.9008
PCB-192		44:54	44:51	-2		0.9049	0.9048	0.904 - 0.9060
PCB-180/193		45:14	45:10	-3		0.9117	0.9115	0.911 - 0.9130
PCB-191		45:37	45:34	-3		0.9194	0.9194	0.919 - 0.9209
PCB-170		46:31	46:28	-3		0.9377	0.9377	0.937 - 0.9392
PCB-190		47:02	47:00	-2		0.9481	0.9483	0.948 - 0.9496
PCB-189	T/L	49:38	49:34	-3		1.0003	1.0003	0.999 - 1.0013
PCB-202L		42:28	42:26	-2	15	0.8211	0.8213	0.819 - 0.8249
PCB-194L		51:43	51:39	-3		1.0000	1.0000	0.996 - 1.0040
PCB-205L		52:11	52:08	-3	15	1.0092	1.0092	1.004 - 1.0138
PCB-202	L	42:29	42:27	-2		1.0006	1.0006	0.999 - 1.0027
PCB-201		43:24	43:22	-2		1.0223	1.0220	1.020 - 1.0237
PCB-204		44:05	44:02	-2		1.0381	1.0378	1.036 - 1.0388
PCB-197		44:19	44:15	-3		1.0437	1.0430	1.042 - 1.0445
PCB-200		44:25	44:23	-2		1.0462	1.0461	1.045 - 1.0473
PCB-198/199		47:12	47:08	-3		1.1115	1.1112	1.109 - 1.1132
PCB-196		47:53	47:49	-3		0.9175	0.9174	0.917 - 0.9189
PCB-203		48:05	48:01	-3		0.9212	0.9209	0.921 - 0.9226
PCB-195		49:24	49:21	-3		0.9465	0.9465	0.946 - 0.9481
PCB-194		51:44	51:41	-3		0.9914	0.9914	0.991 - 0.9926
PCB-205	L	52:13	52:09	-4		1.0005	1.0002	0.999 - 1.0013
PCB-208L		49:08	49:05	-3	15	0.9503	0.9502	0.947 - 0.9534
PCB-206L		53:56	53:53	-3	15	1.0431	1.0431	1.038 - 1.0472
PCB-208	L	49:10	49:06	-3		1.0005	1.0003	0.999 - 1.0013
PCB-207		50:05	50:02	-3		1.0193	1.0193	1.019 - 1.0205
PCB-206	L	53:58	53:54	-4		1.0005	1.0002	1.000 - 1.0015
PCB-209L		55:35	55:30	-5	15	1.0748	1.0743	1.069 - 1.0784
DCB Decachlorobiphenyl	L	55:35	55:31	-4		1.0002	1.0005	0.999 - 1.0012

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

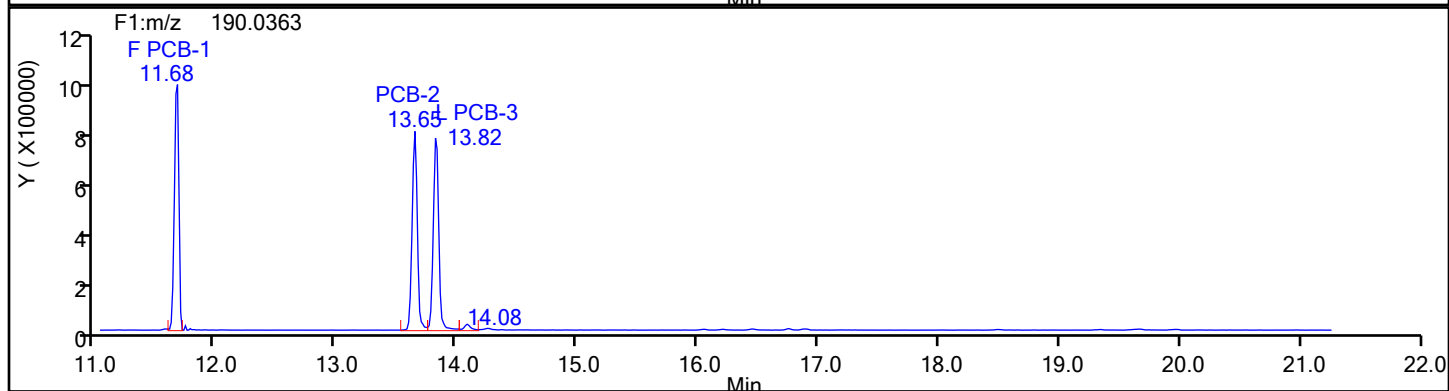
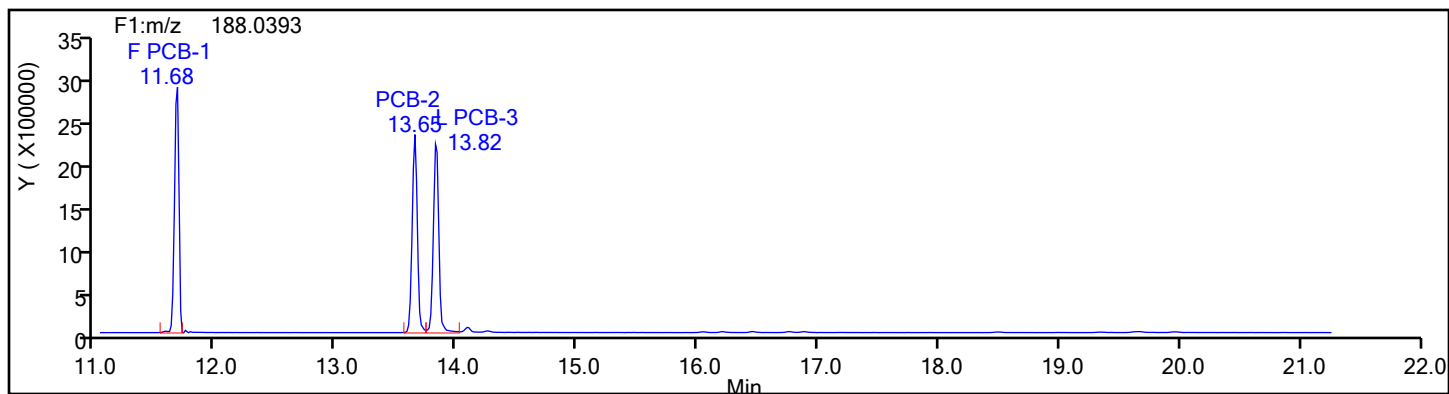
Worklist#: 88362

Sample Line#: 1

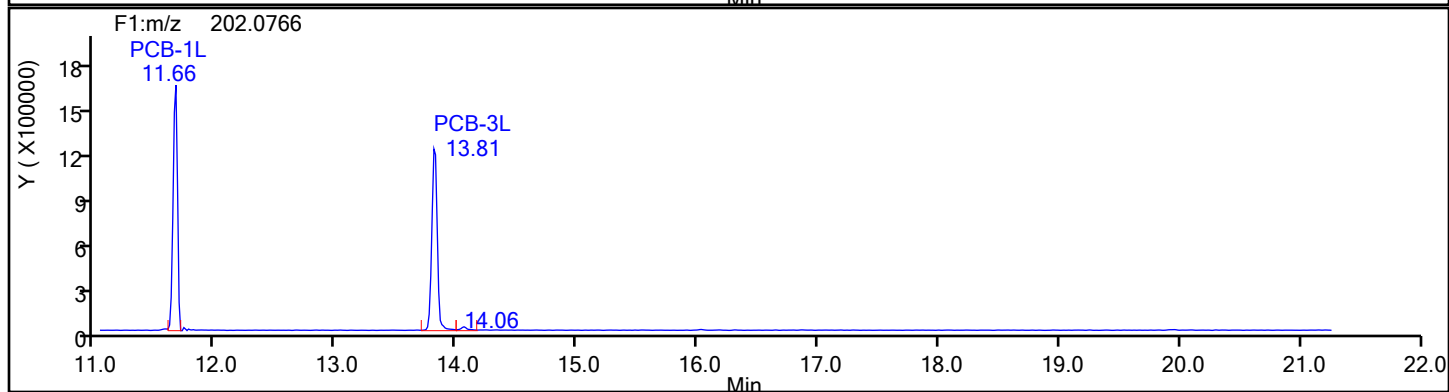
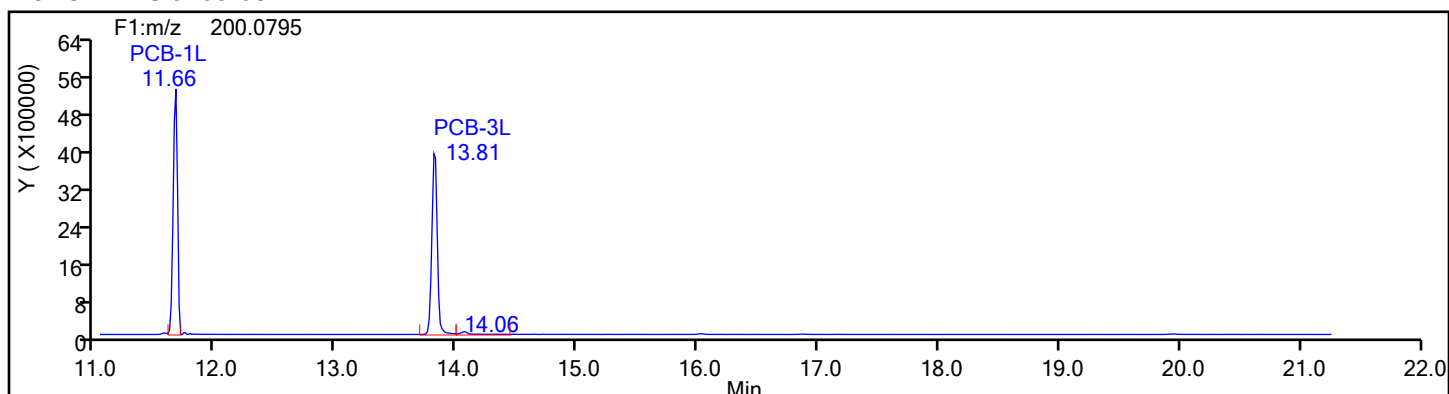
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

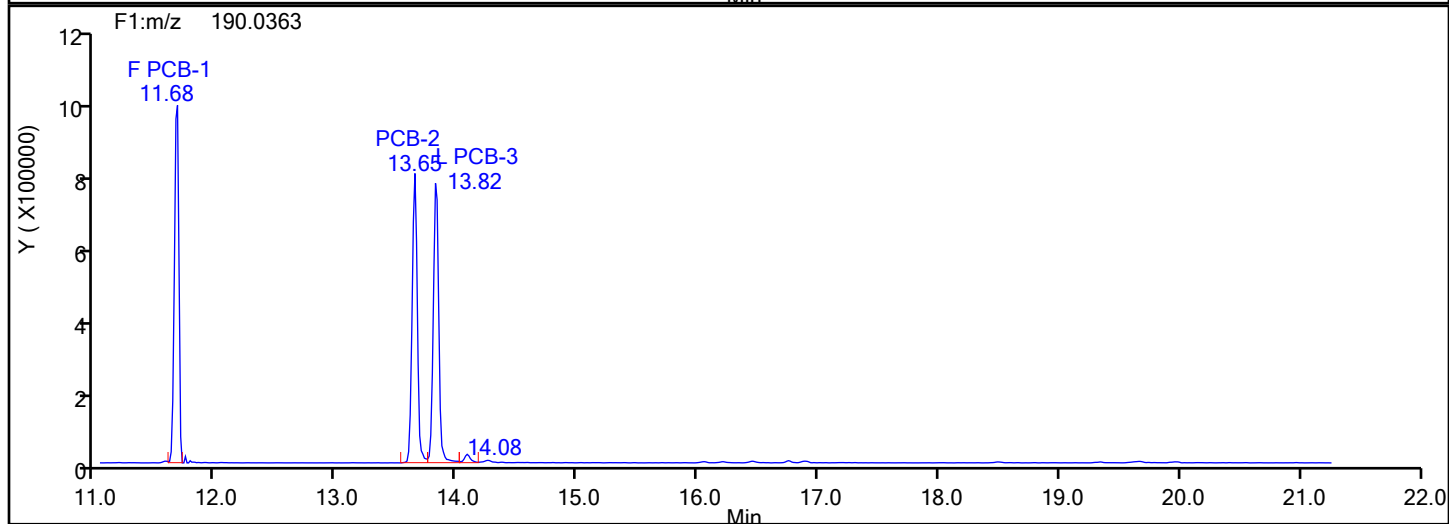
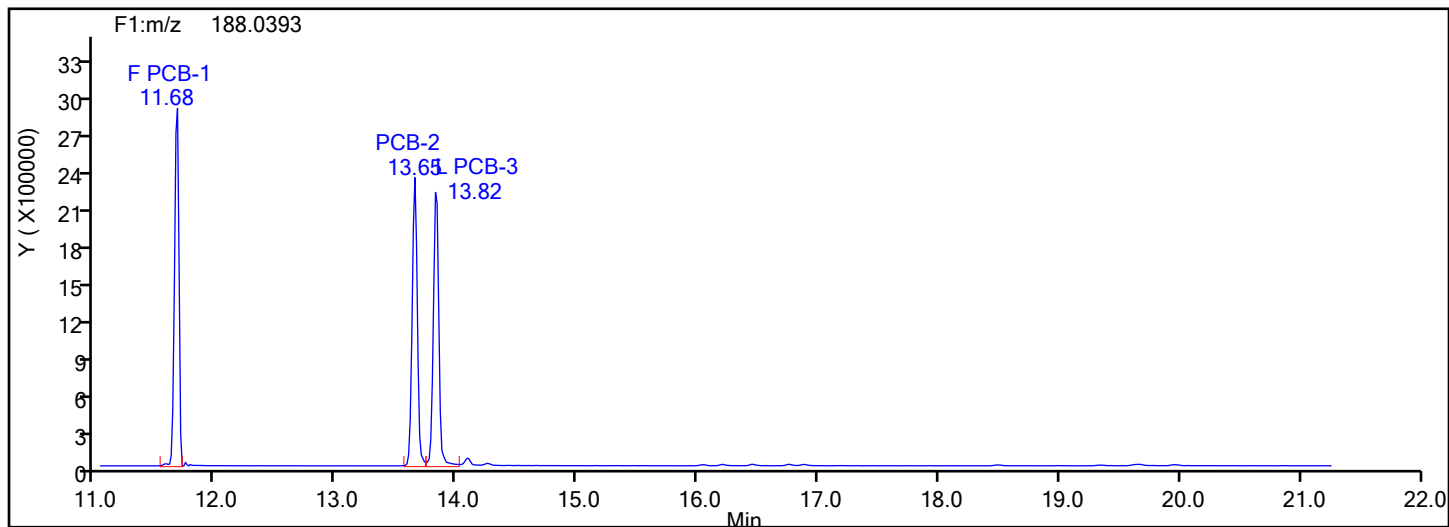
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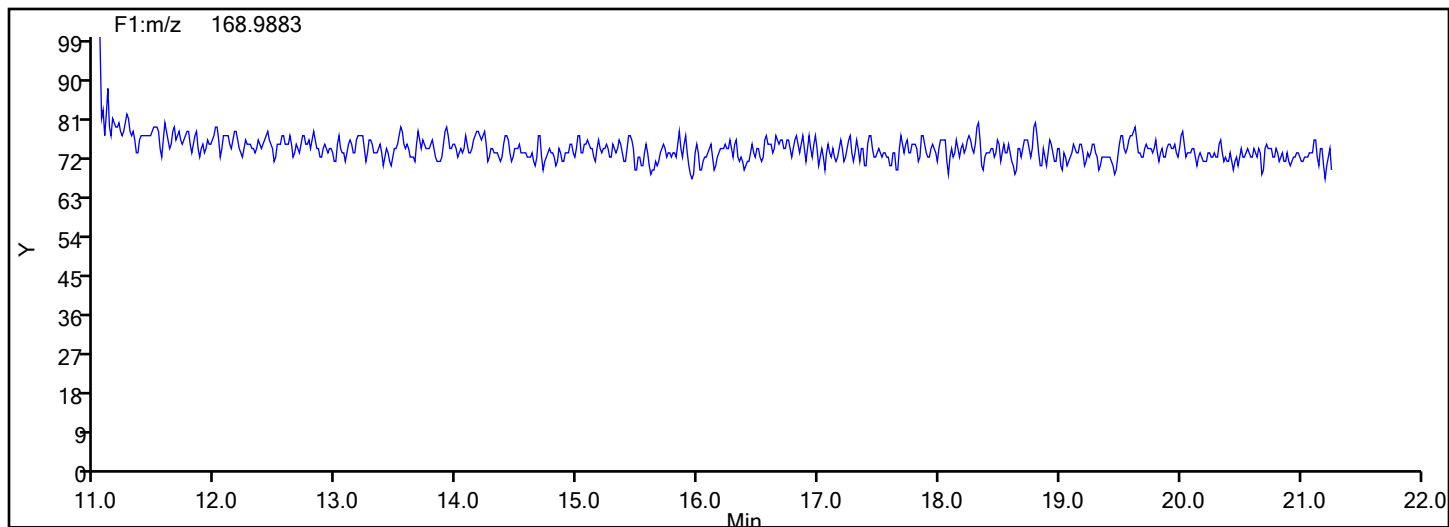
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass





## Eurofins Knoxville

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Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

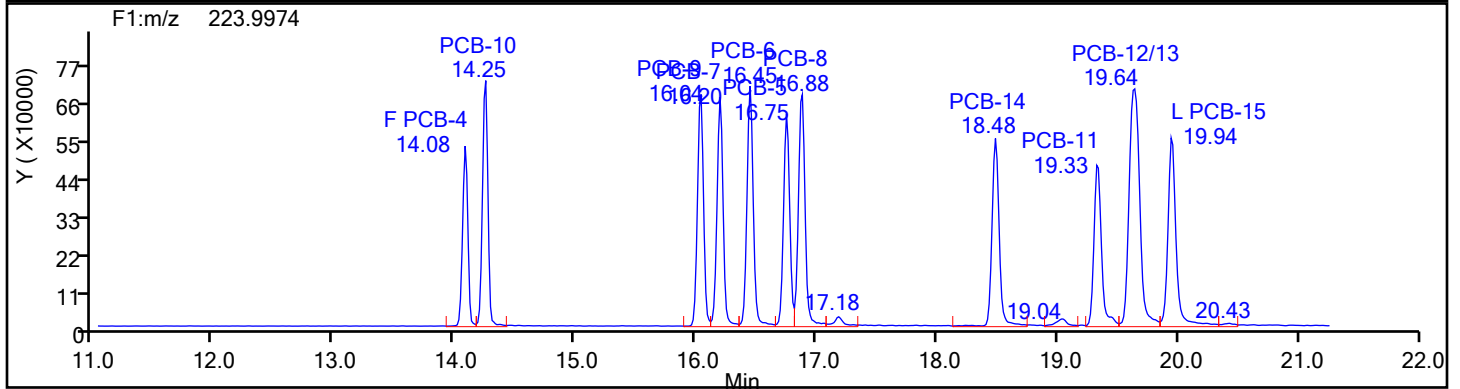
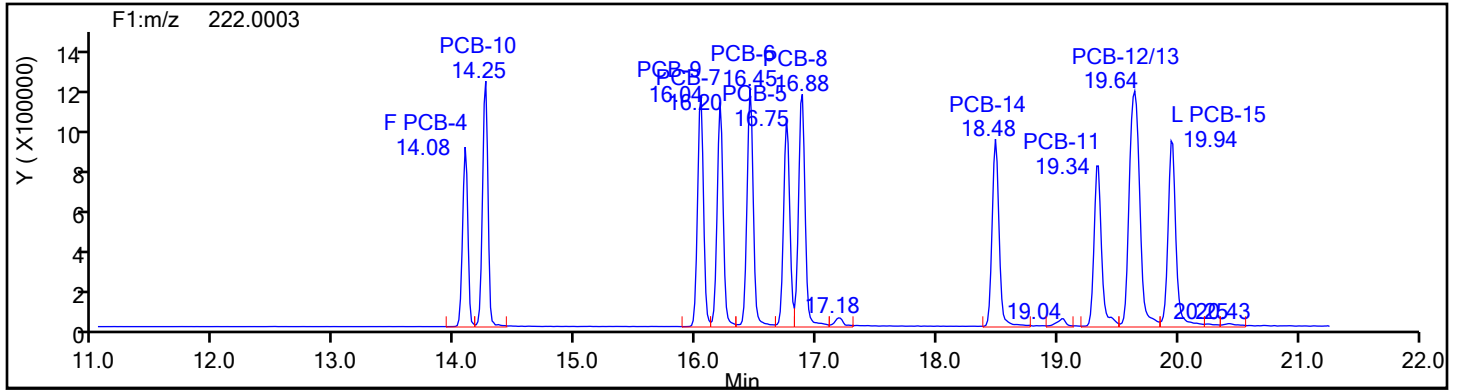
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Sample Line#: 1

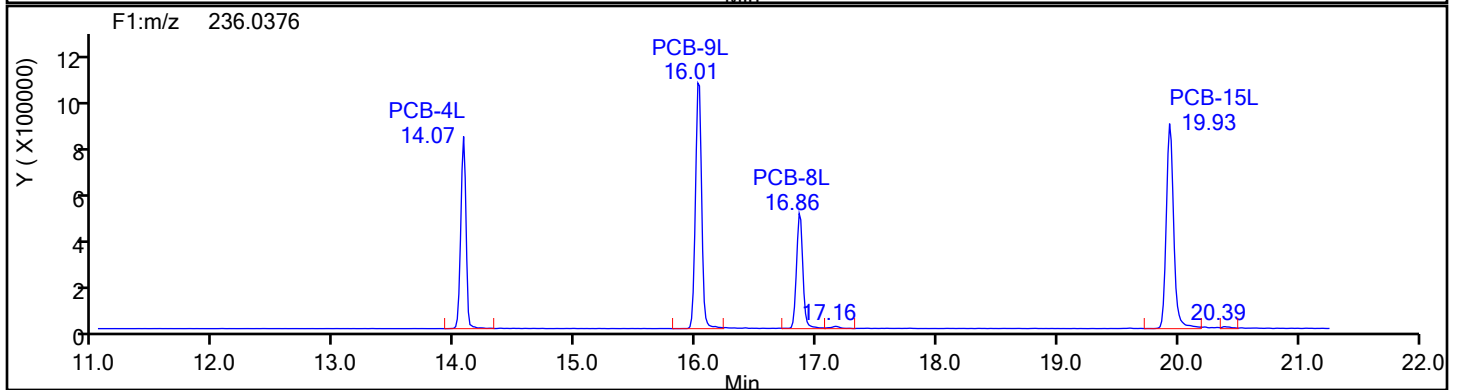
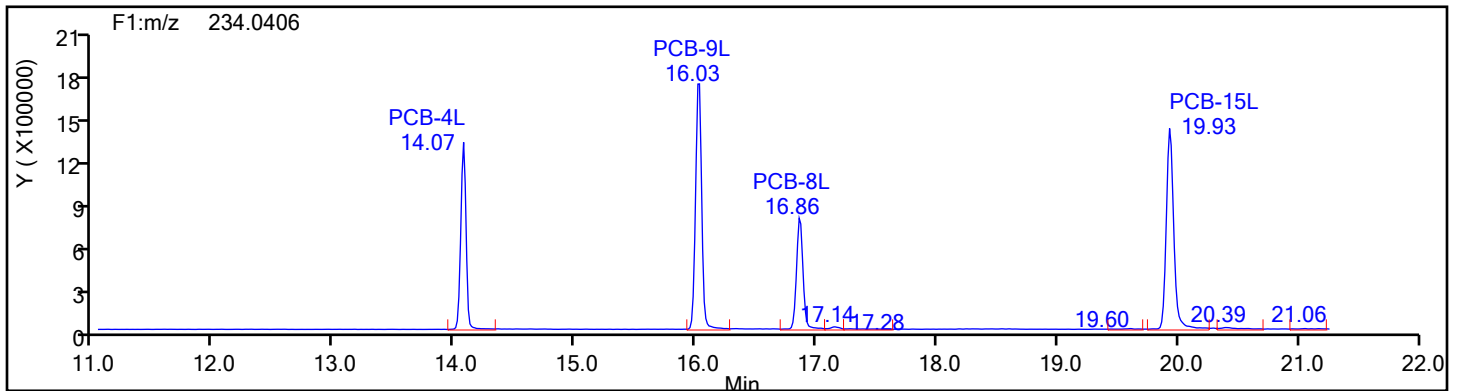
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

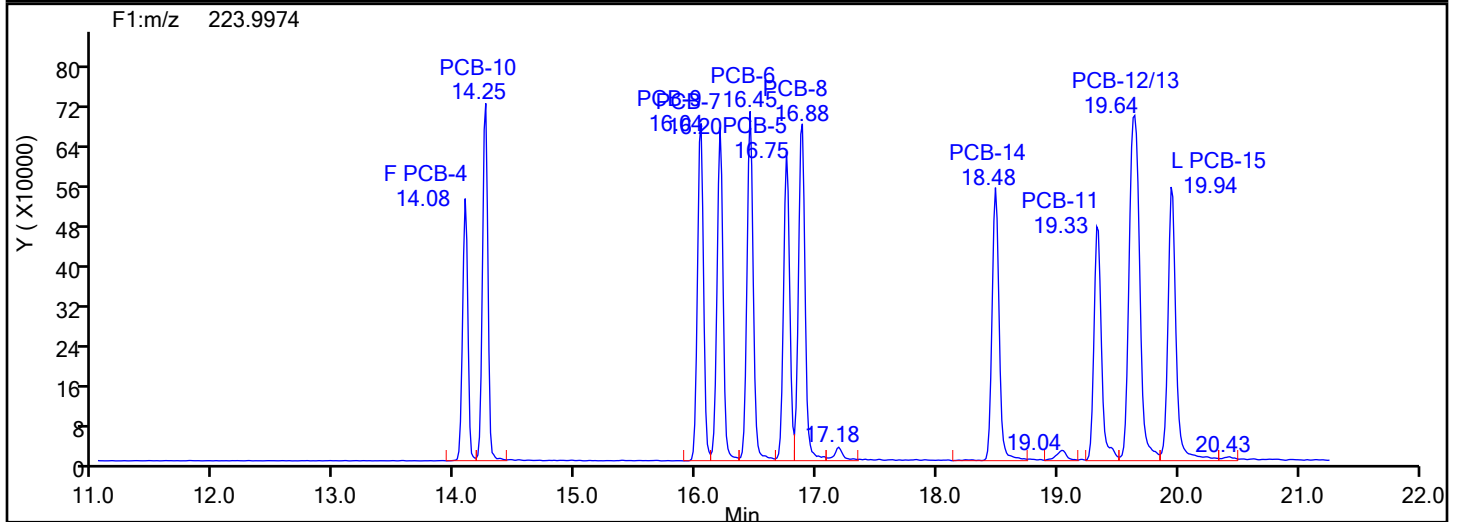
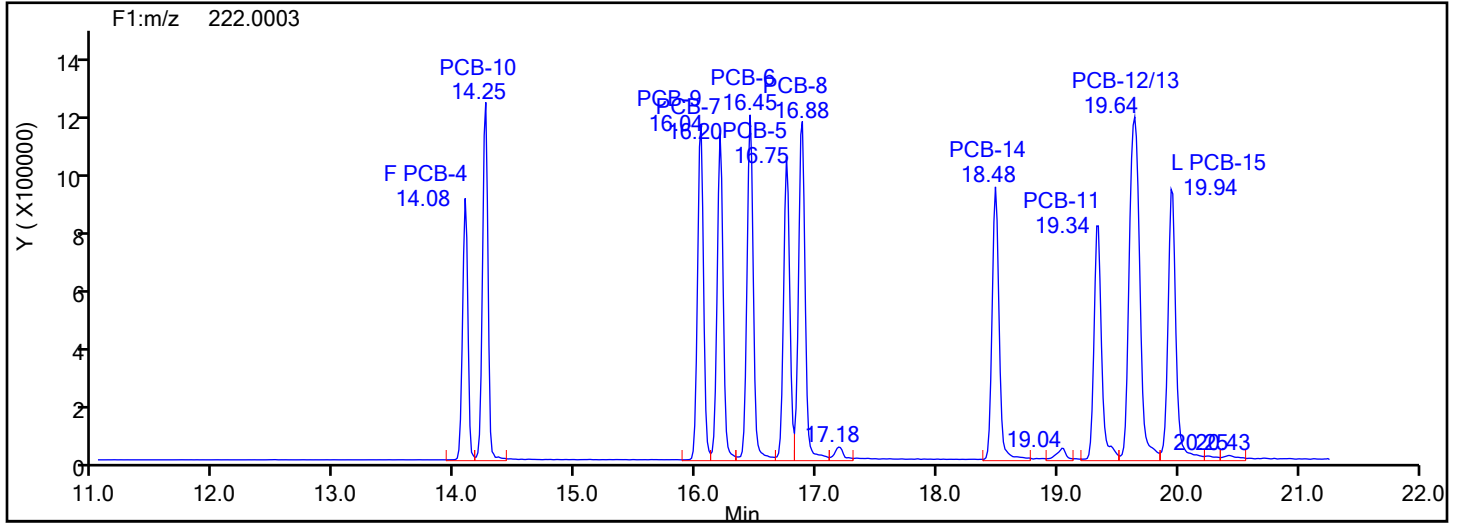
Worklist#: 88362

Sample Line#: 1

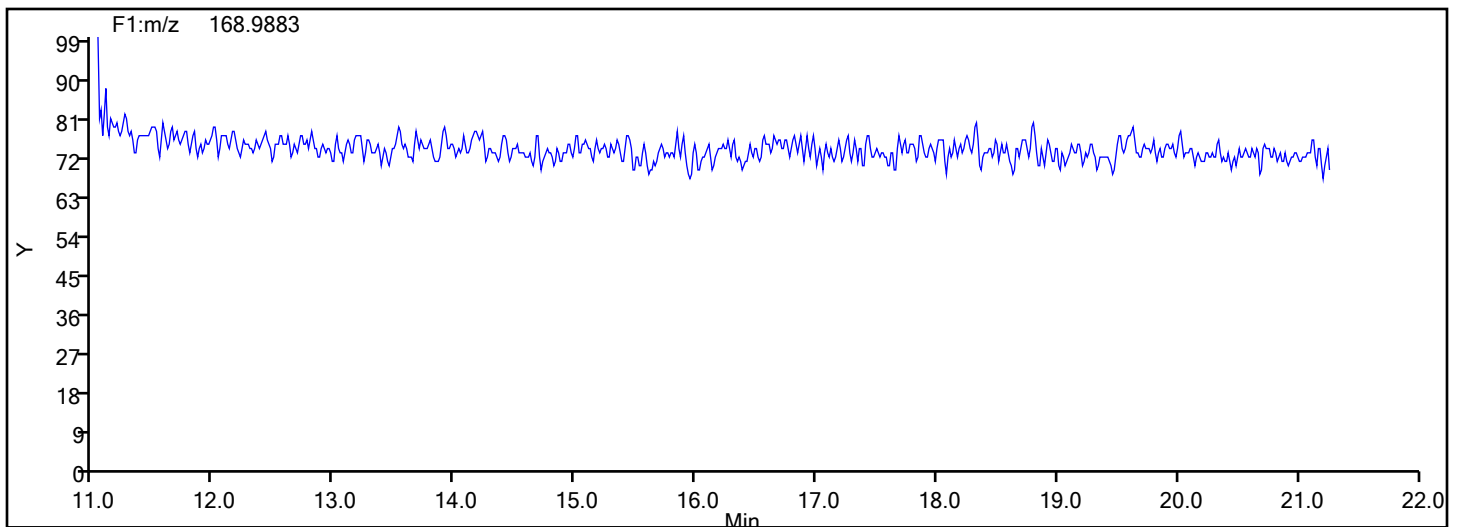
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

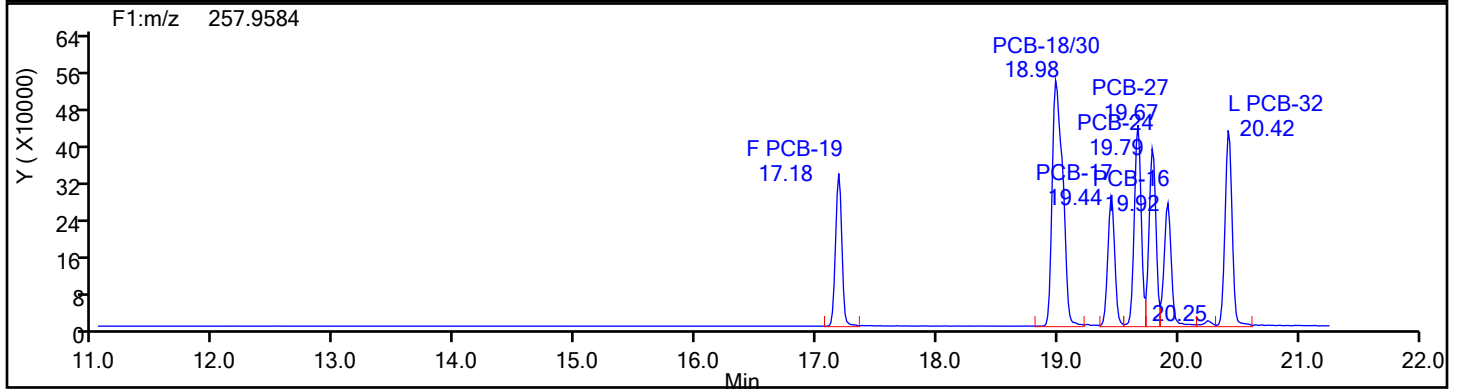
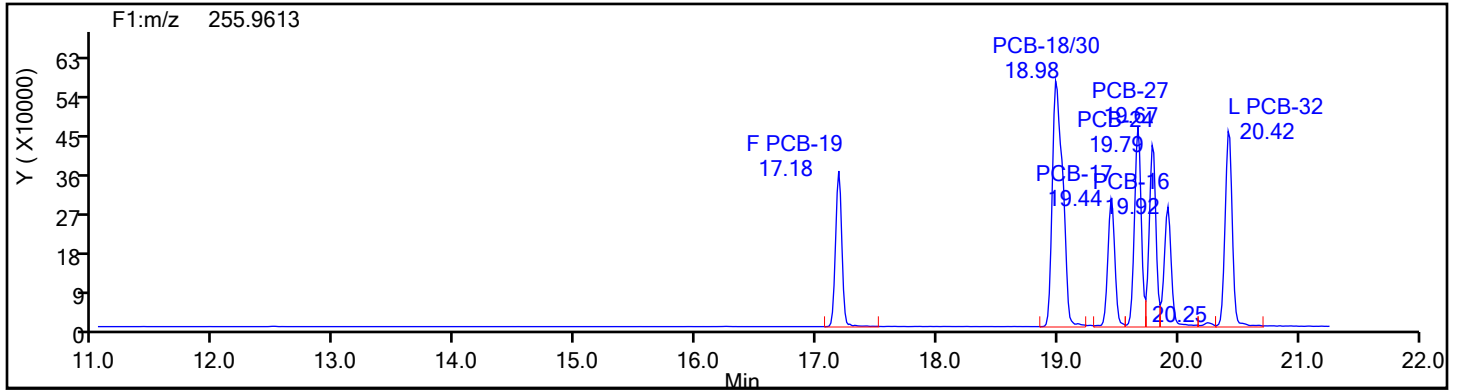
Worklist#: 88362

Sample Line#: 1

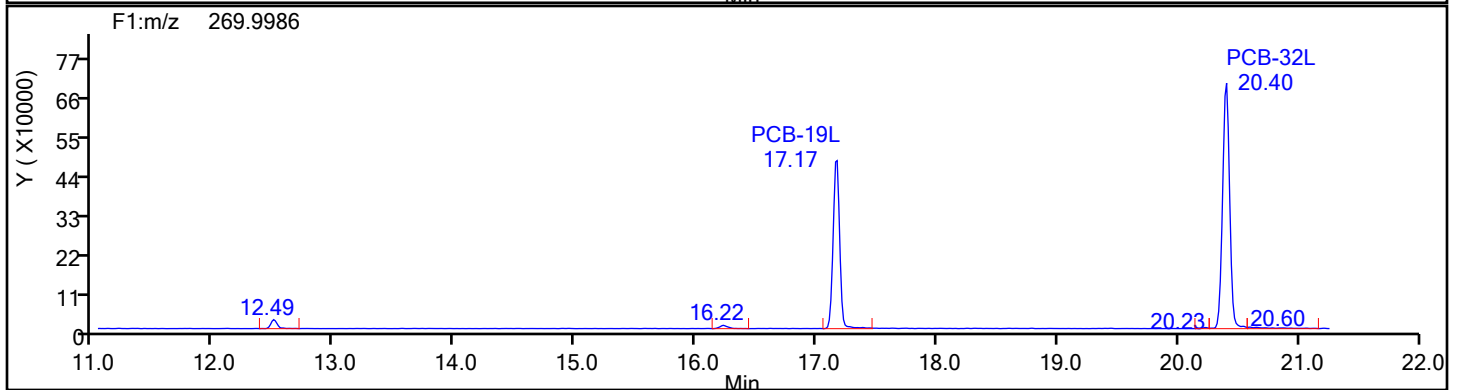
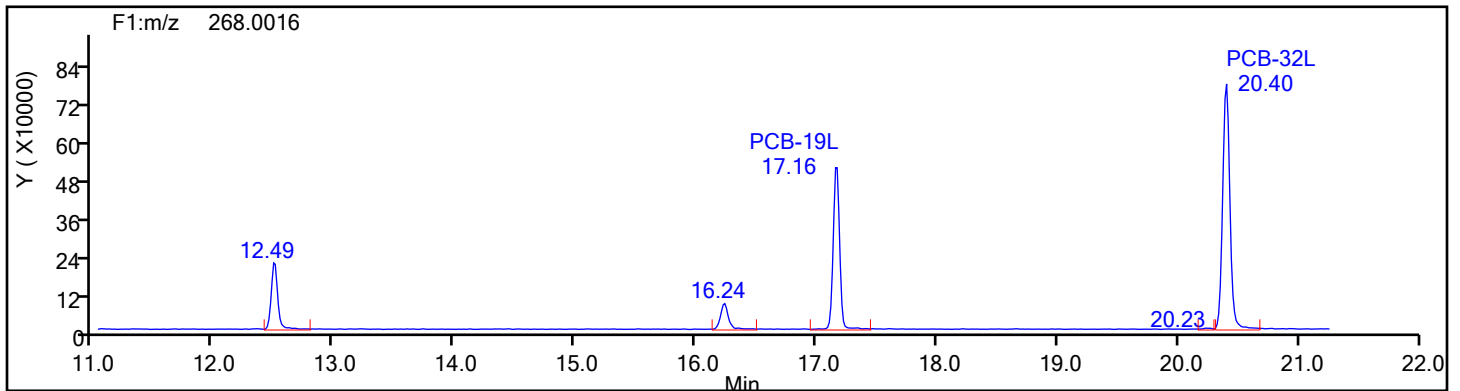
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1

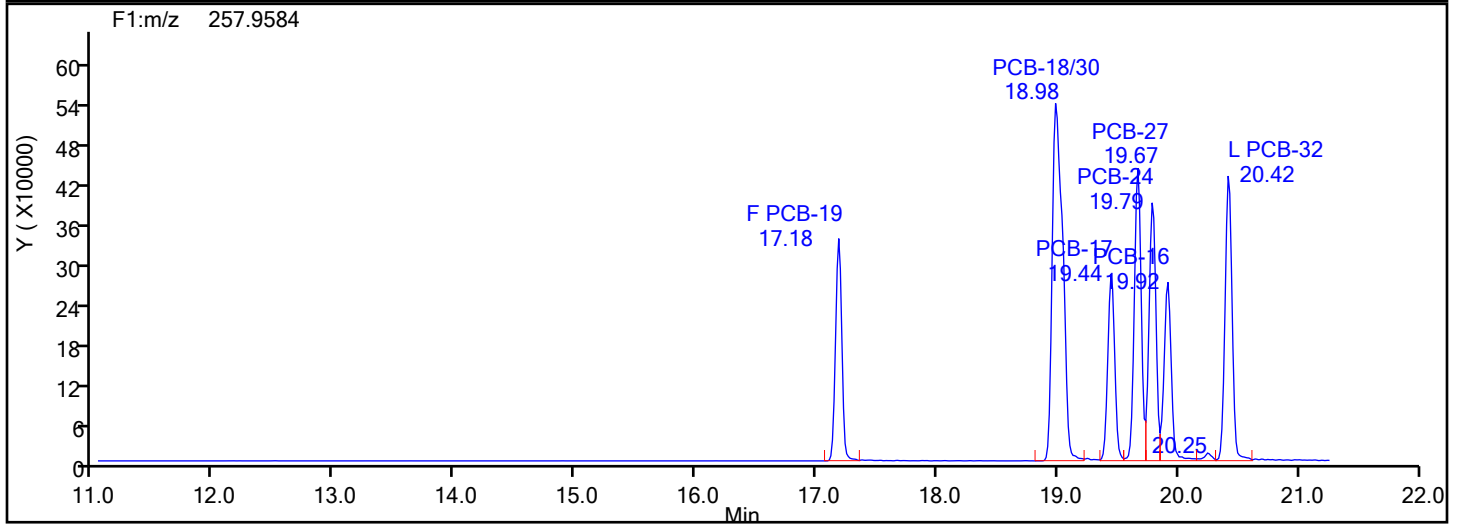
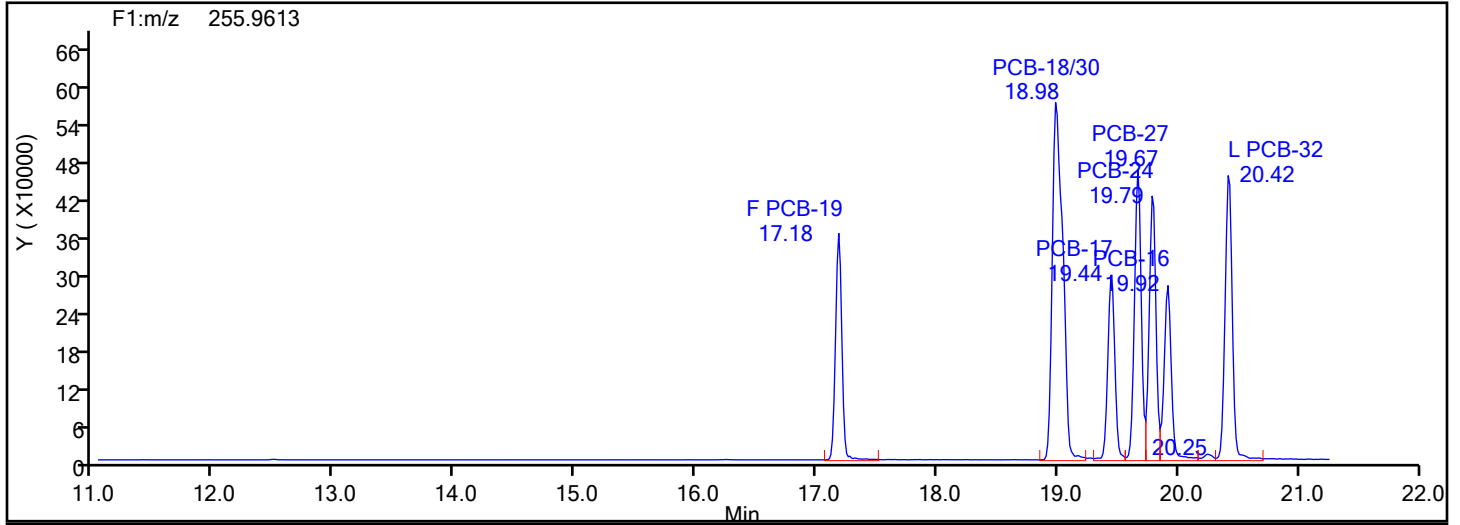


TriPCB F1 Standards

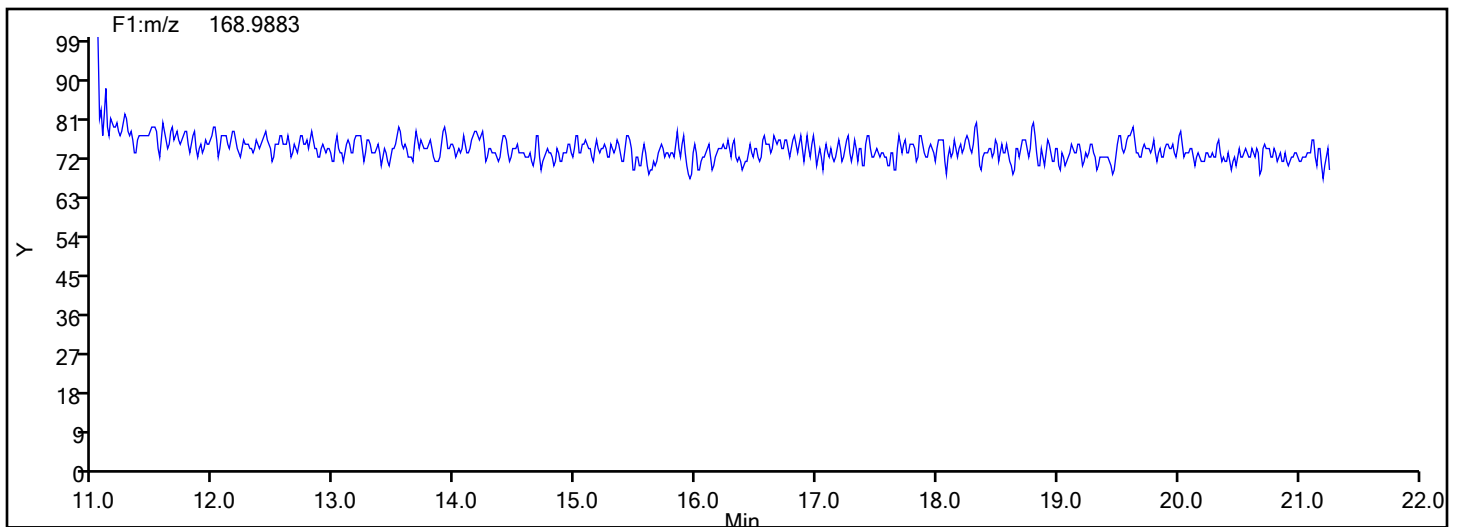


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TriPCB F1



## TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

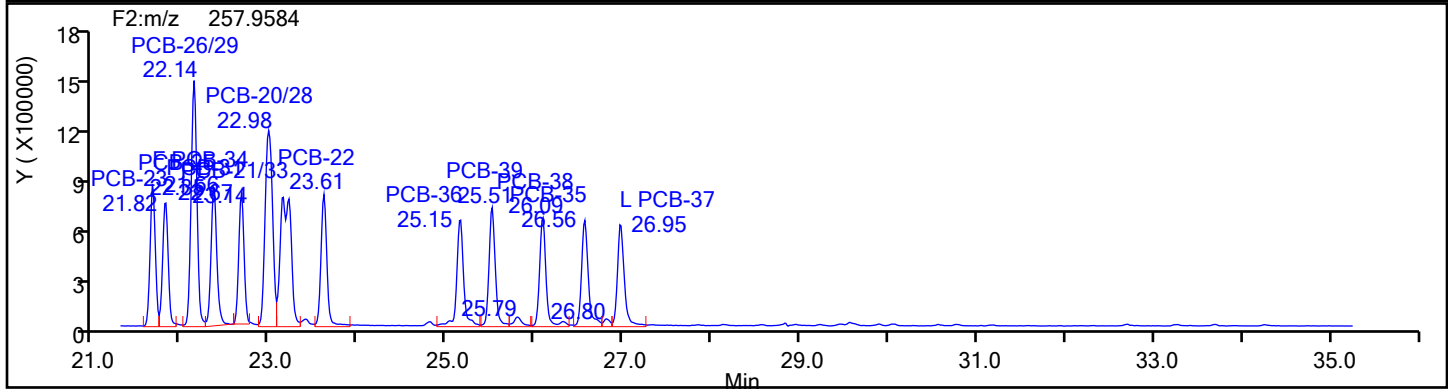
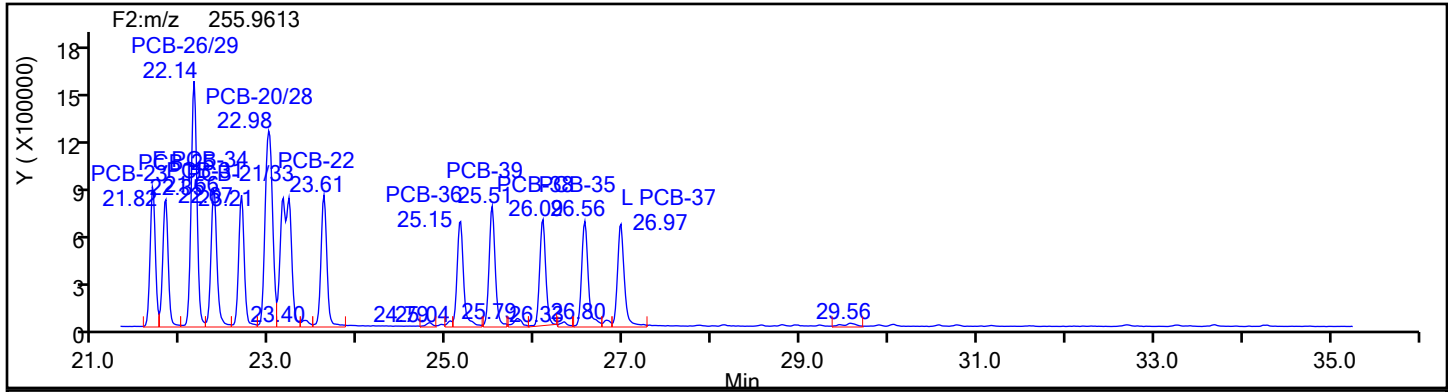
Worklist#: 88362

Sample Line#: 1

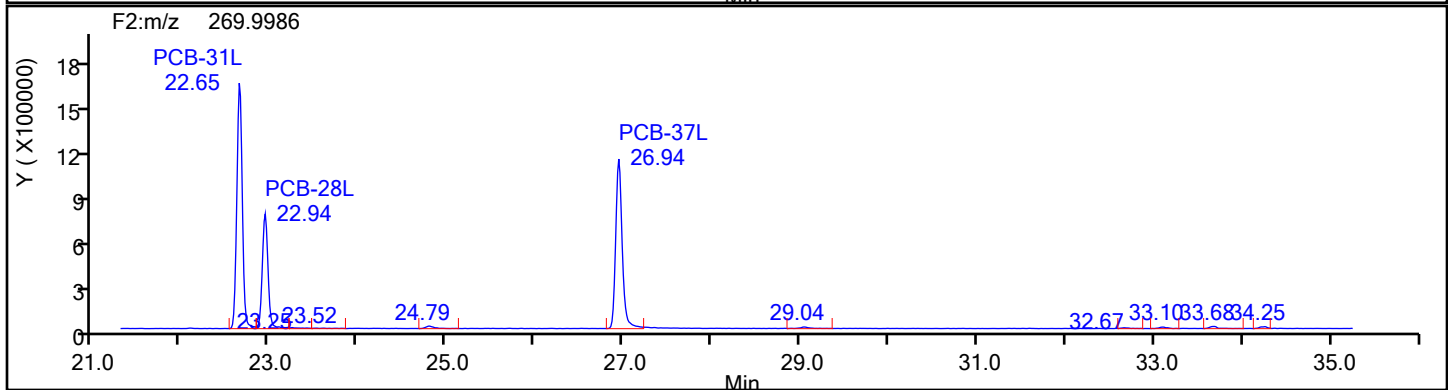
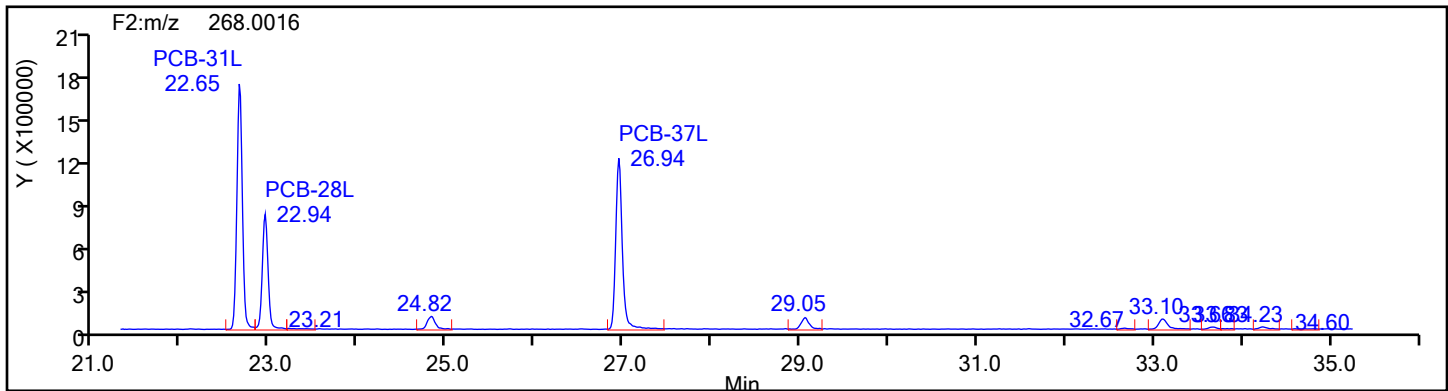
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

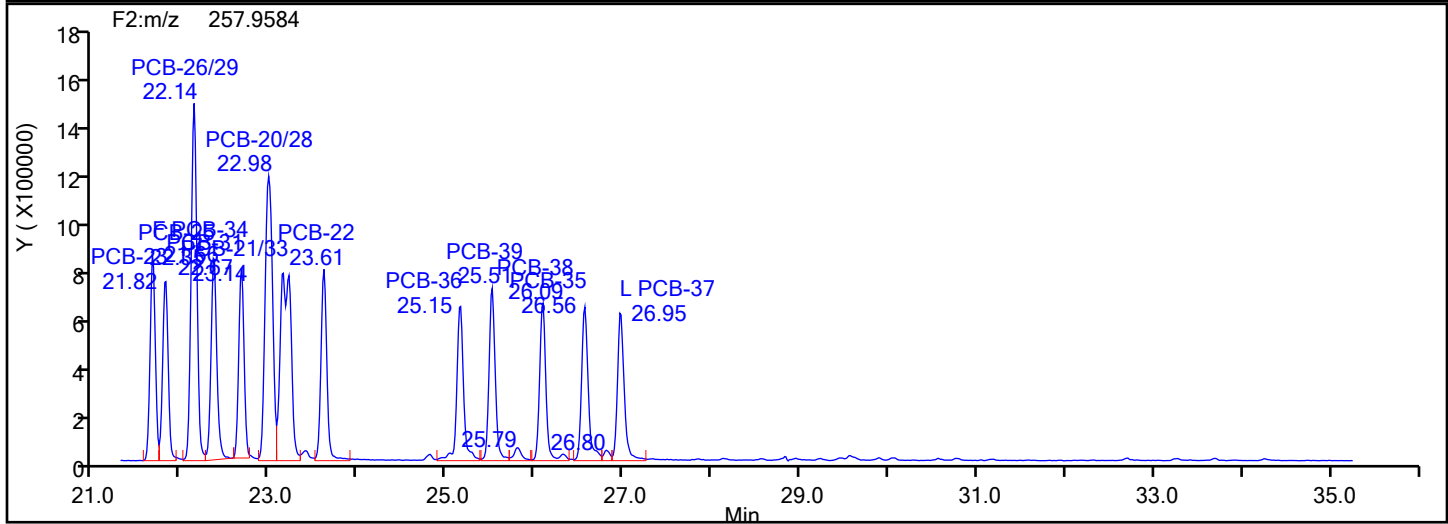
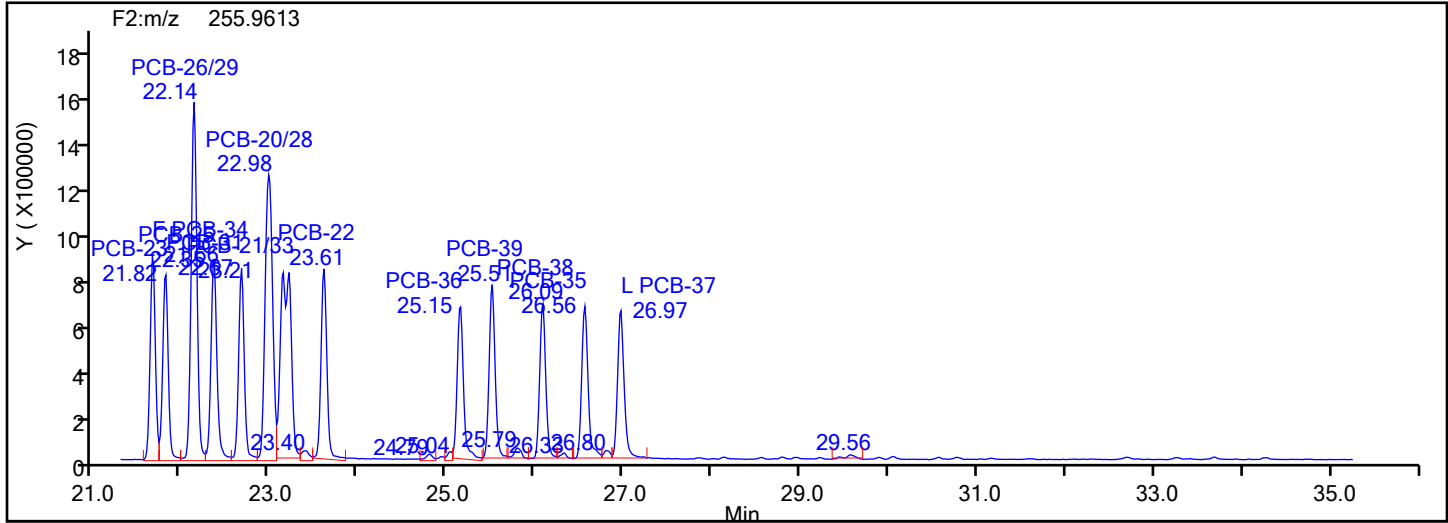
Worklist#: 88362

Sample Line#: 1

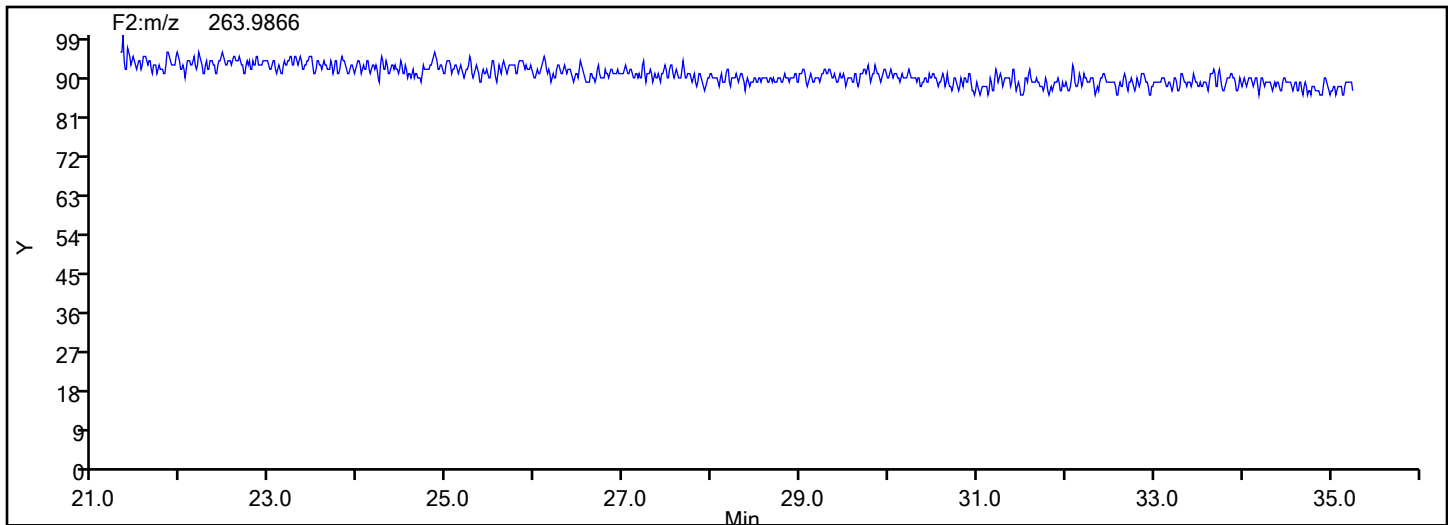
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

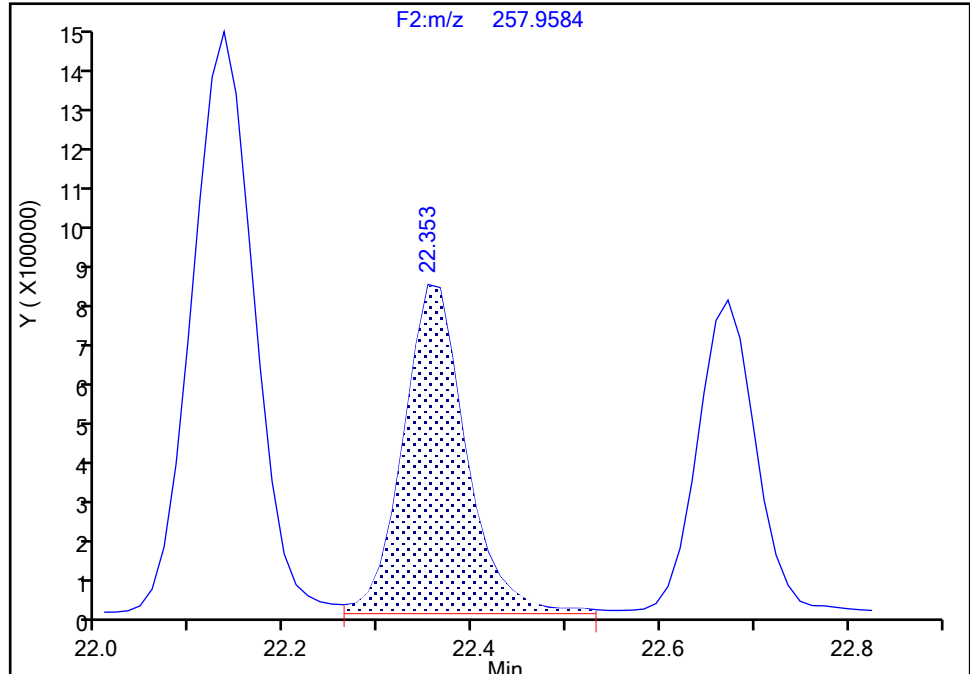
Detector F2(21.81 :35.54 )

**PCB-25, CAS: 55712-37-3**

Signal: 2

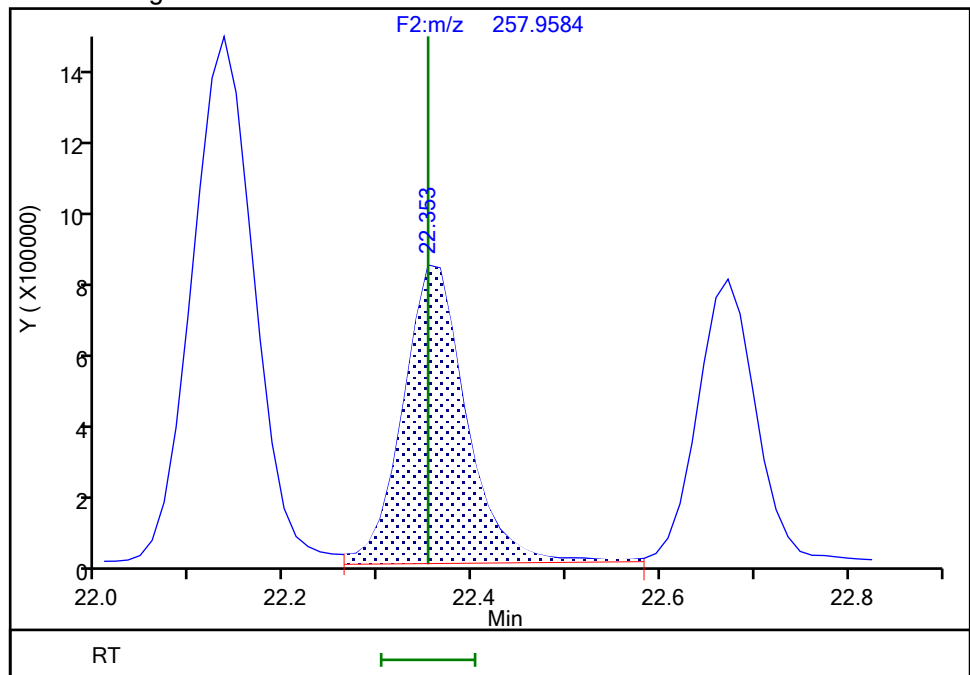
RT: 22.35  
Area: 3944053  
Amount: 52.383101  
Amount Units: pg/ul

## Processing Integration Results



RT: 22.35  
Area: 3915728  
Amount: 52.198237  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:09:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

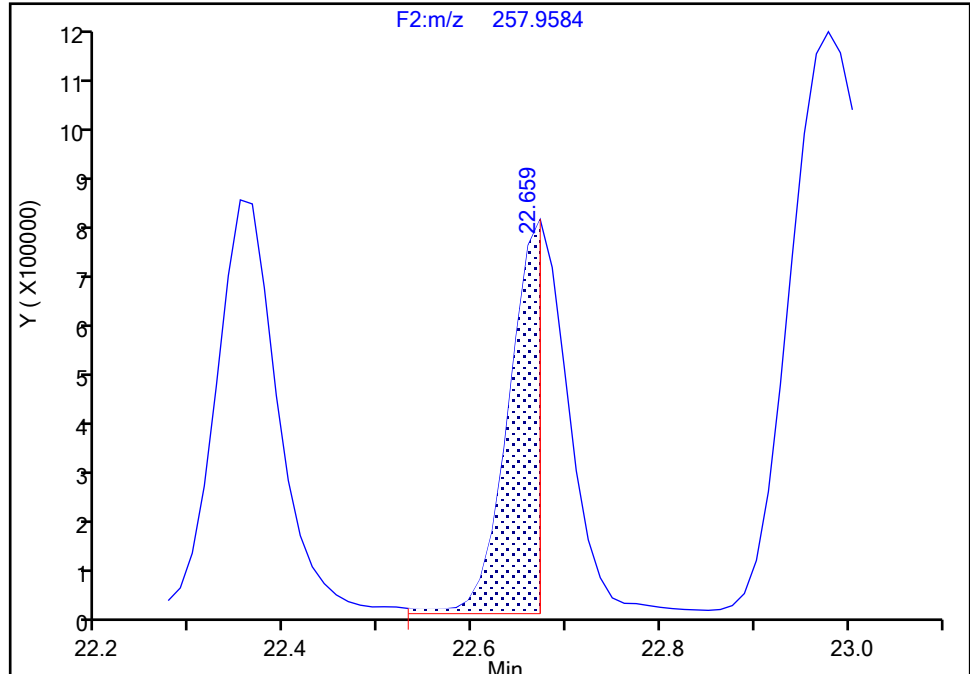
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-31, CAS: 16606-02-3

Signal: 2

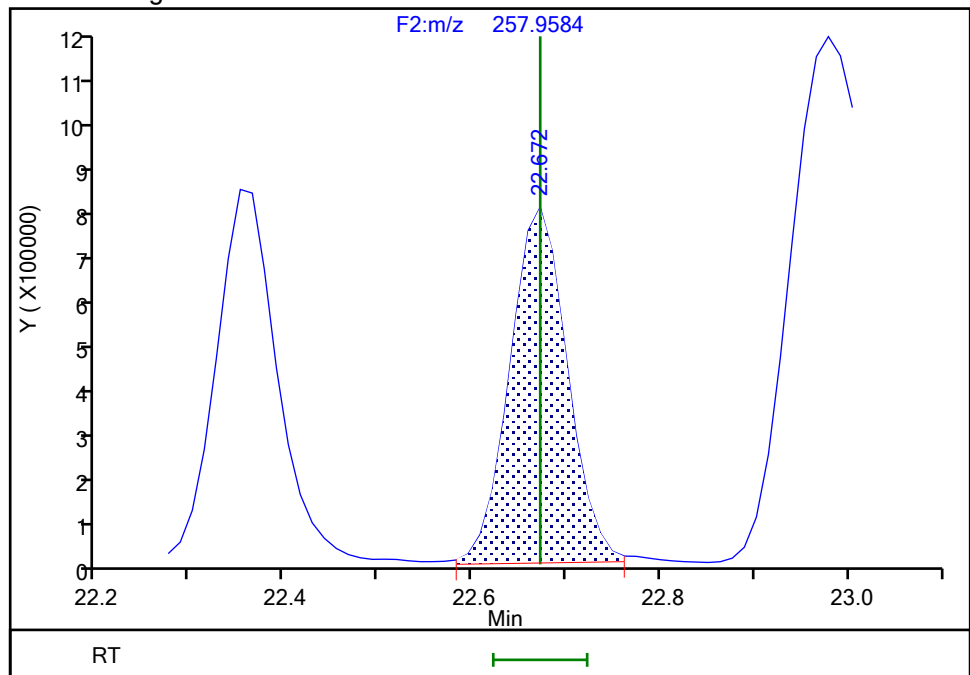
RT: 22.66  
Area: 1820218  
Amount: 39.495655  
Amount Units: pg/ul

## Processing Integration Results



RT: 22.67  
Area: 3357403  
Amount: 50.568008  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:09:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

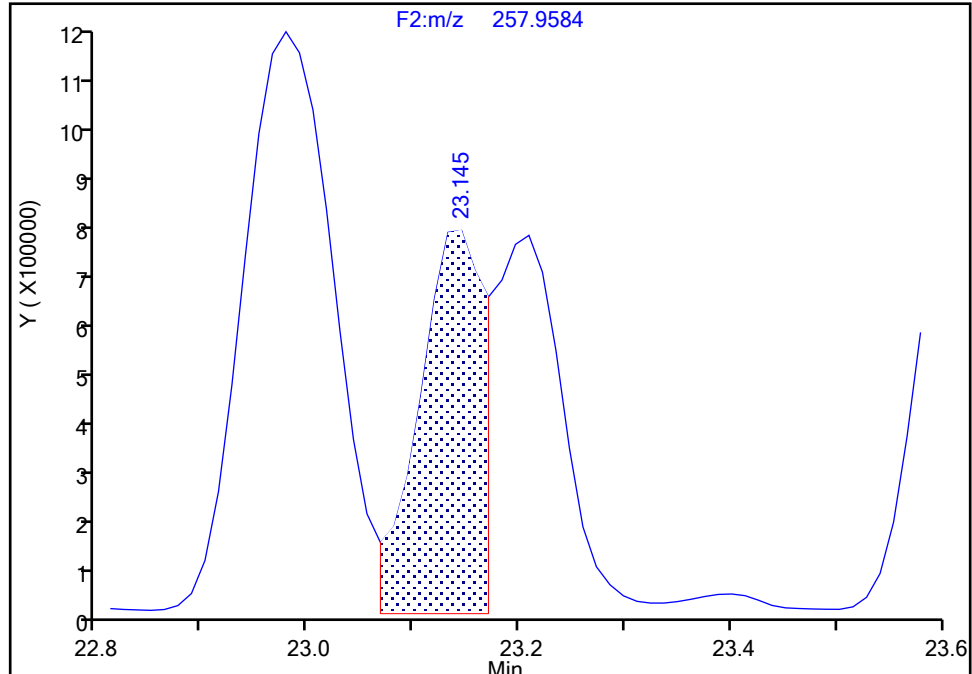
Detector F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 2

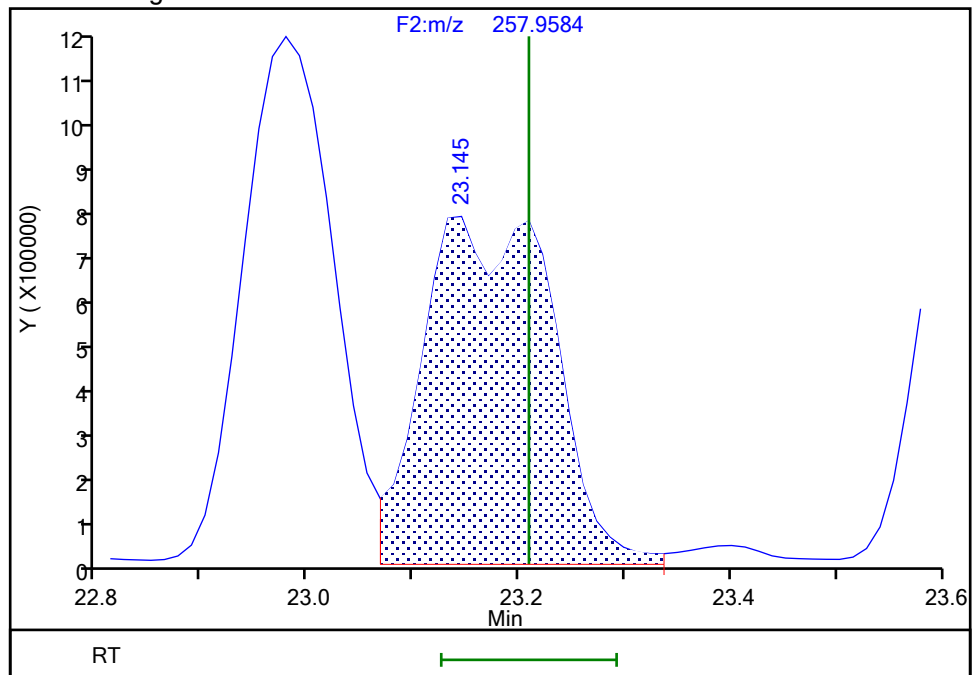
RT: 23.14  
Area: 3218718  
Amount: 50.254915  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.14  
Area: 6663135  
Amount: 104.1264  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:09:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

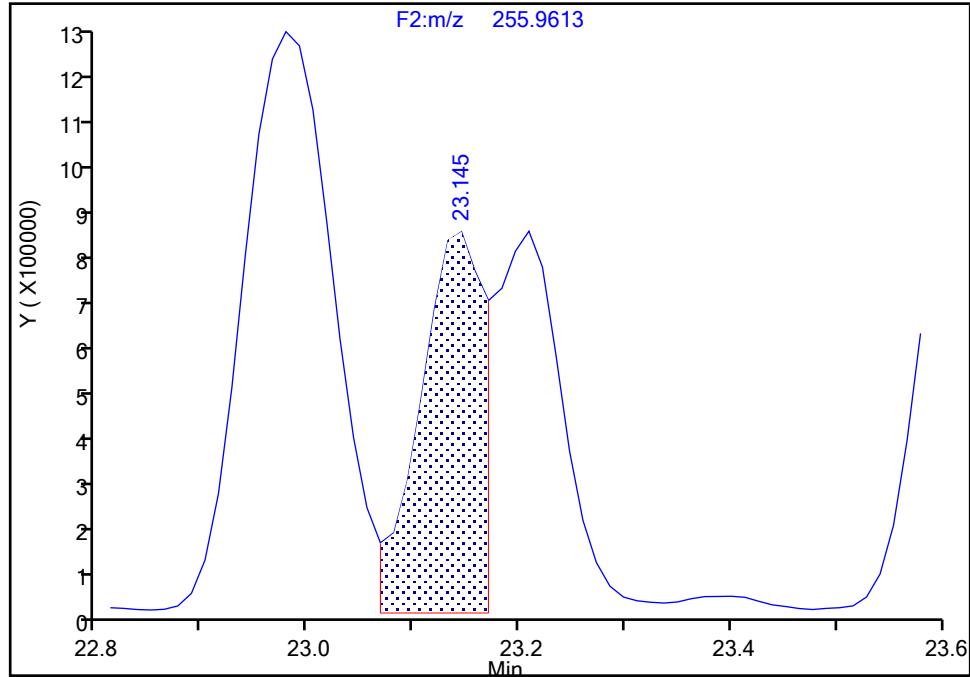
F2(21.81 :35.54 )

**PCB-21/33, CAS: STL01800**

Signal: 1

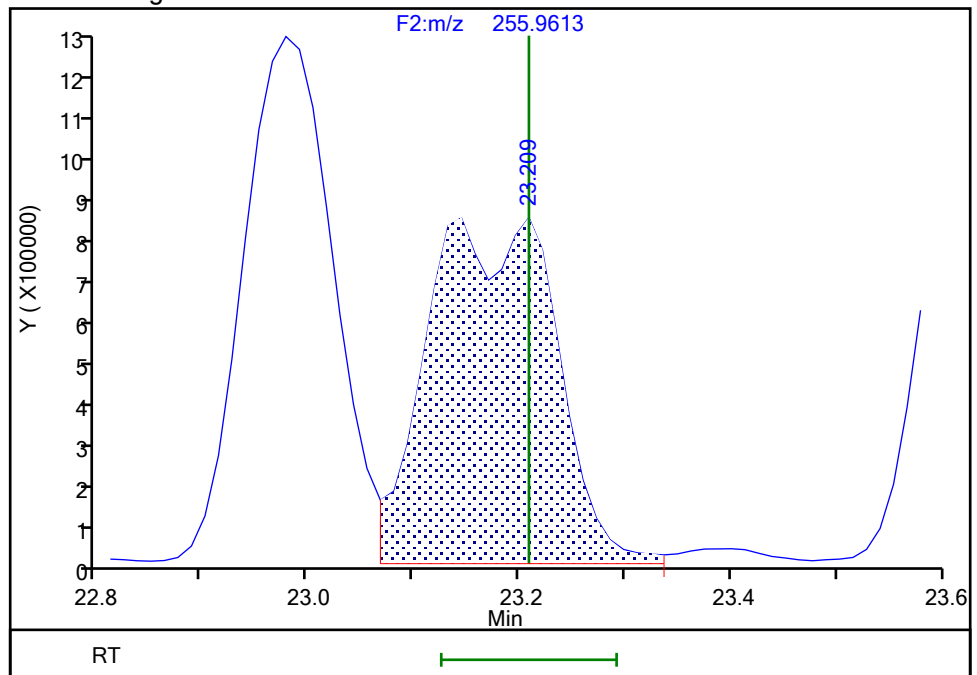
RT: 23.14  
Area: 3282326  
Amount: 50.254915  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.21  
Area: 6806797  
Amount: 104.1264  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:09:46 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

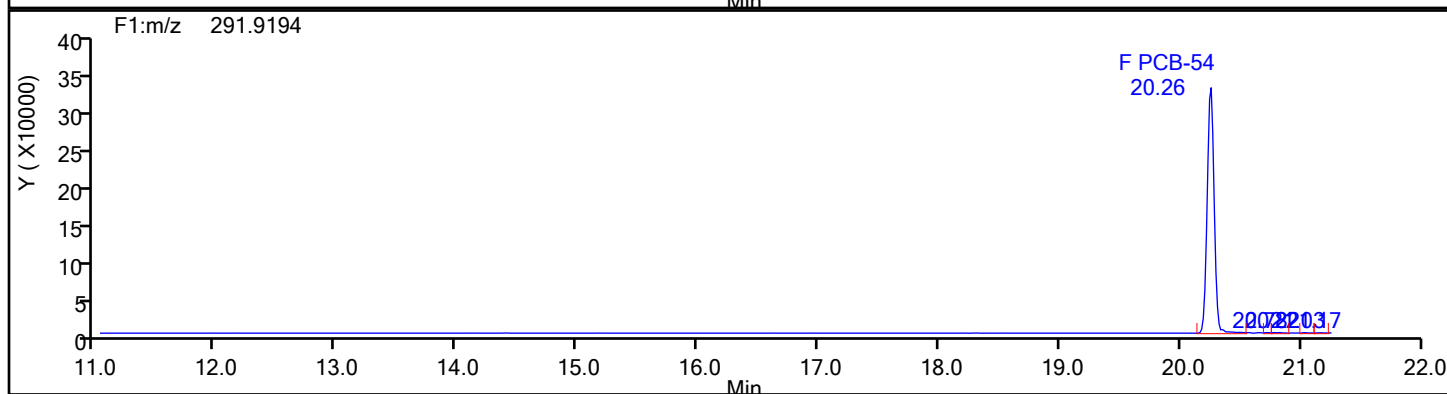
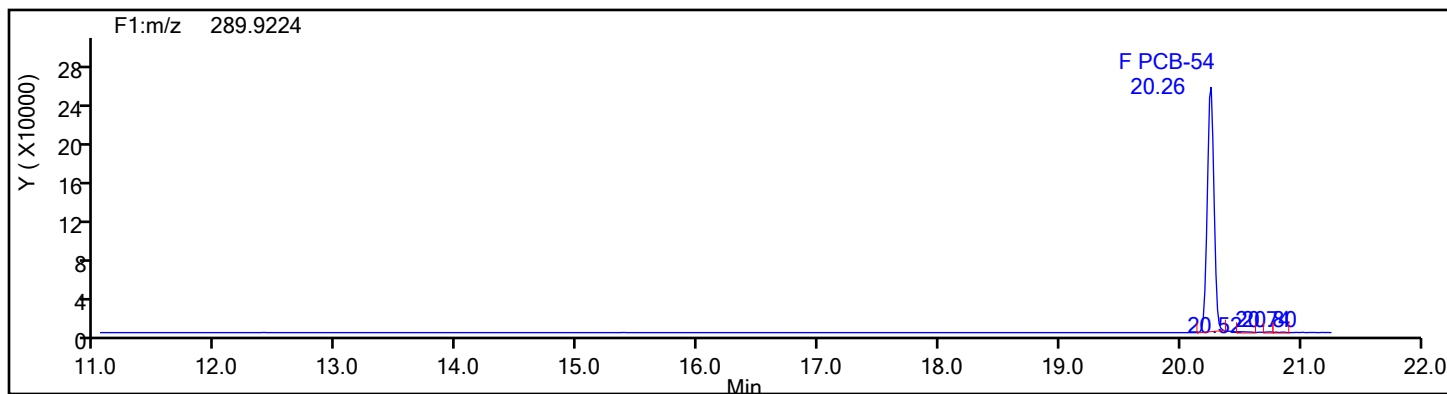
Worklist#: 88362

Sample Line#: 1

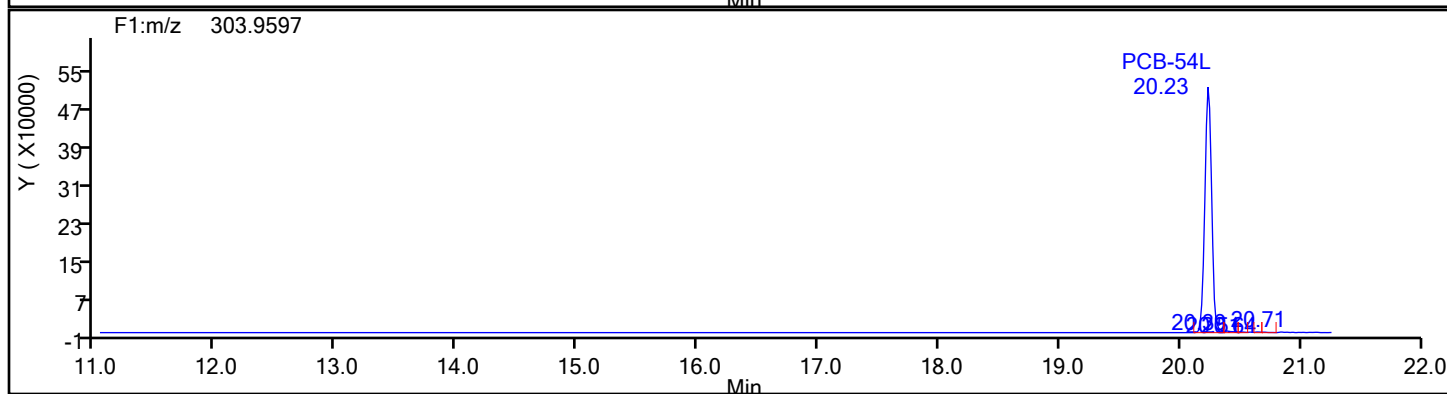
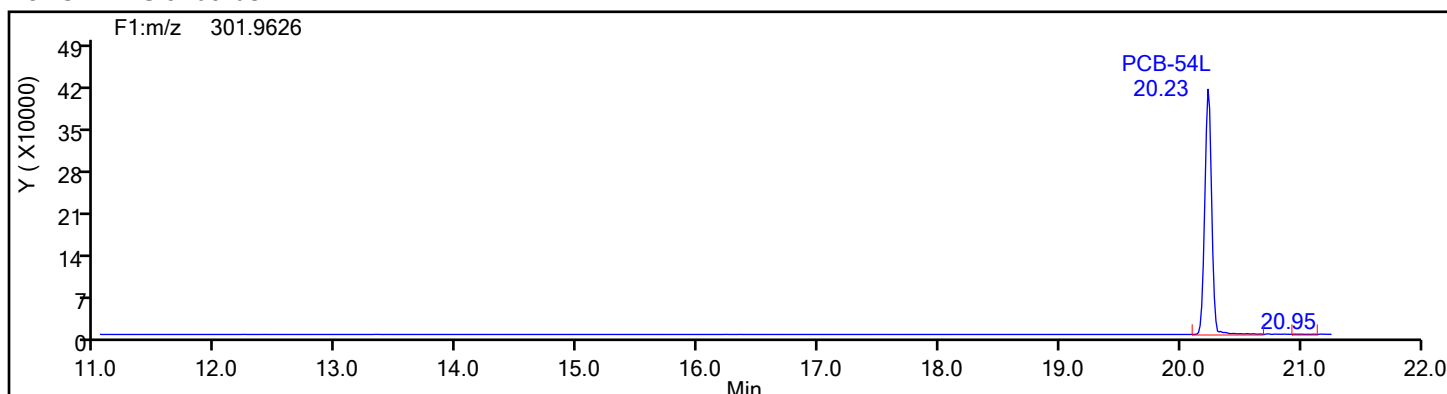
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

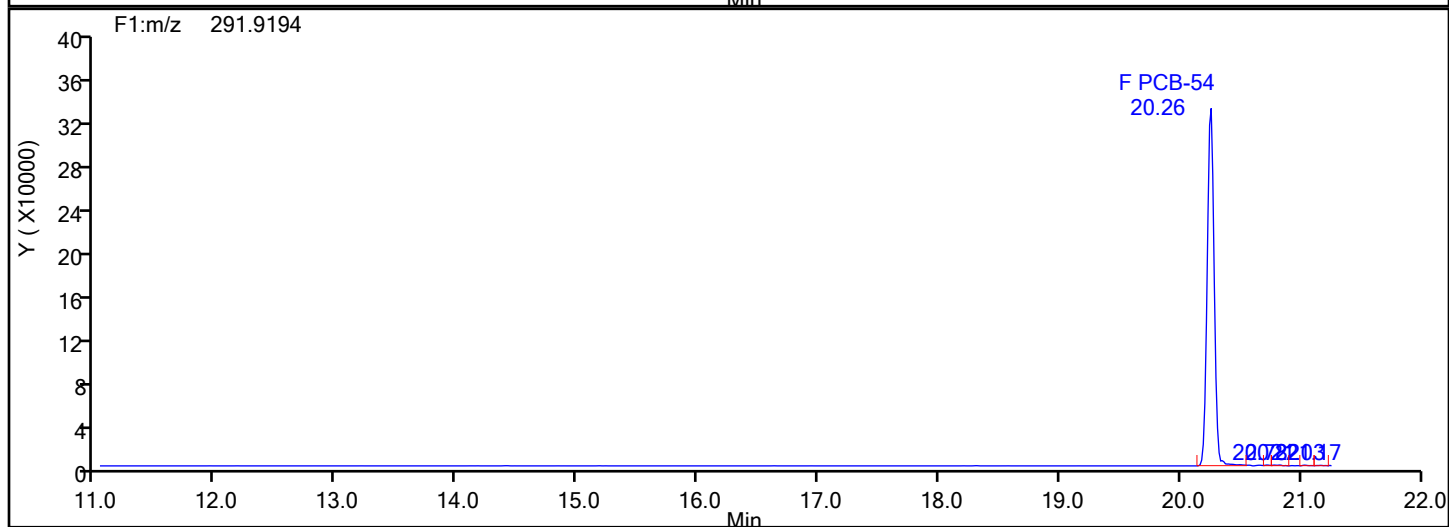
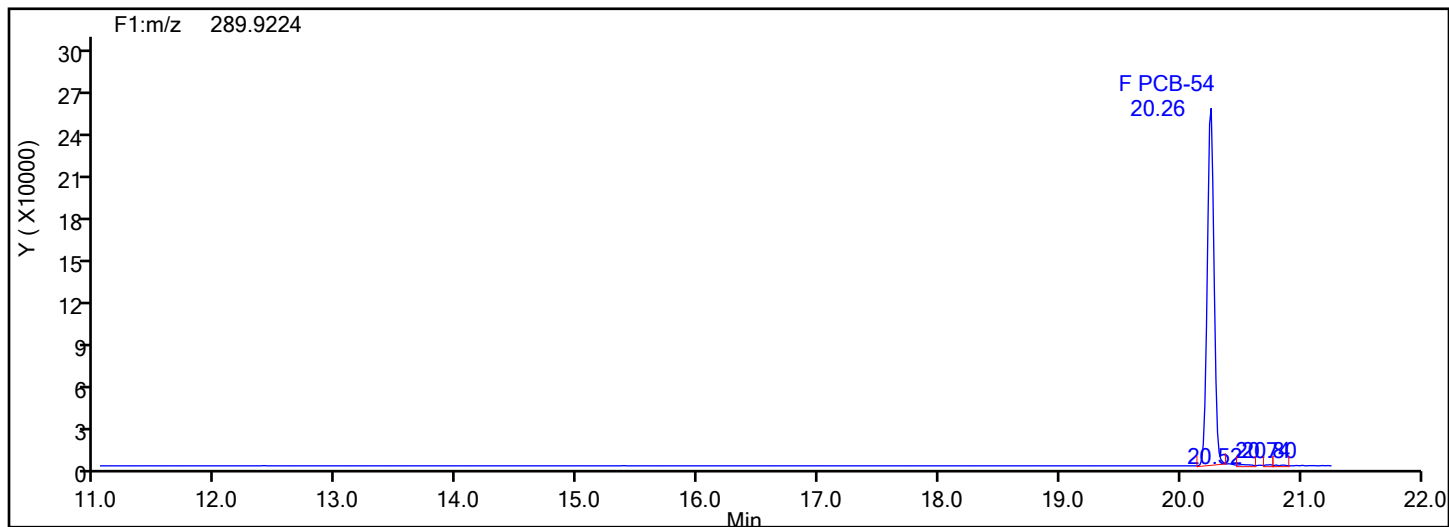
Worklist#: 88362

Sample Line#: 1

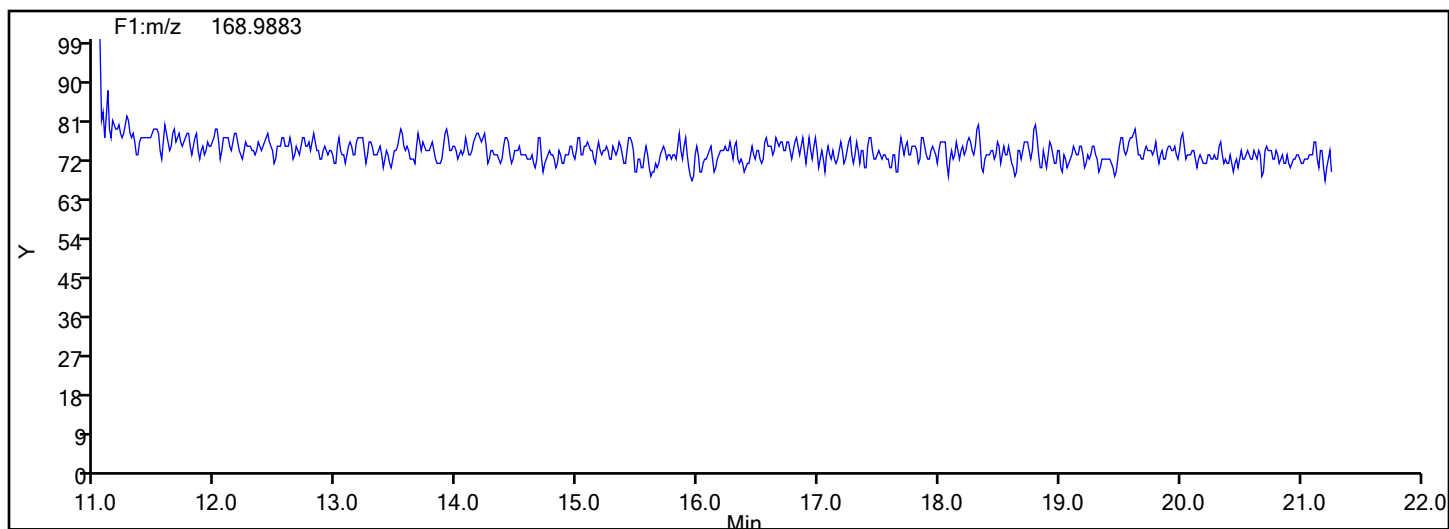
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



## Eurofins Knoxville

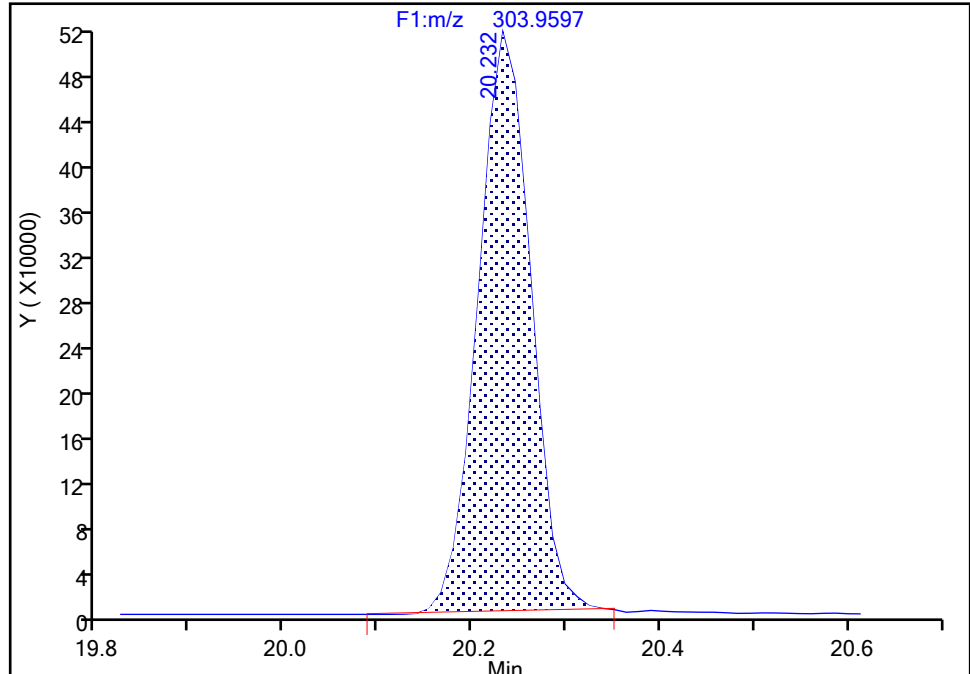
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F1(11.07 :21.70 )

PCB-54L, CAS: 234432-88-3

Signal: 2

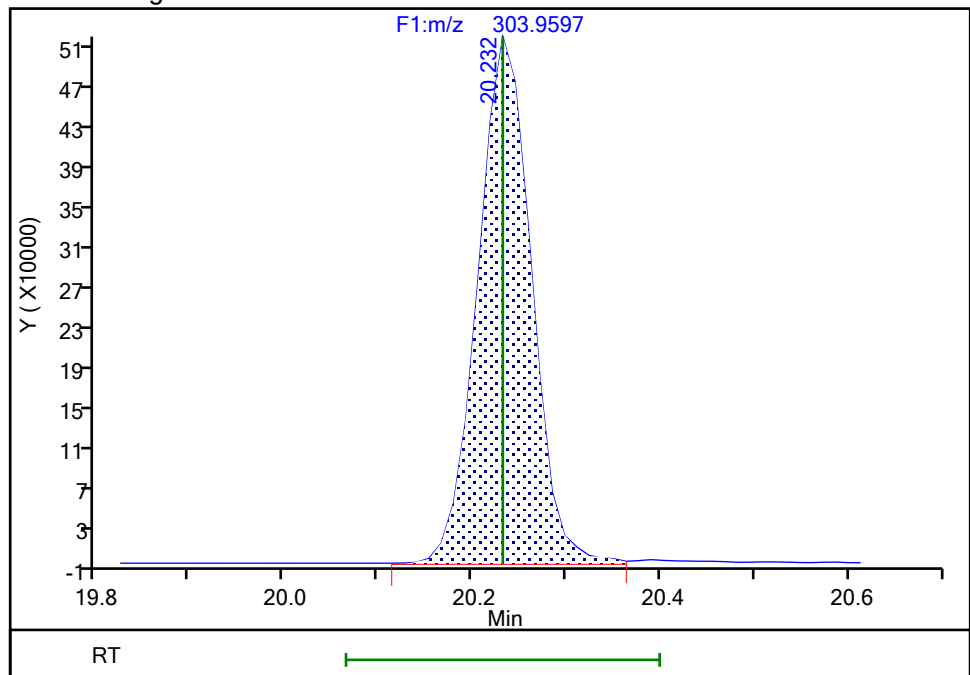
RT: 20.23  
Area: 1995157  
Amount: 107.5849  
Amount Units: pg/ul

## Processing Integration Results



RT: 20.23  
Area: 2031706  
Amount: 108.6616  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:10:13 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

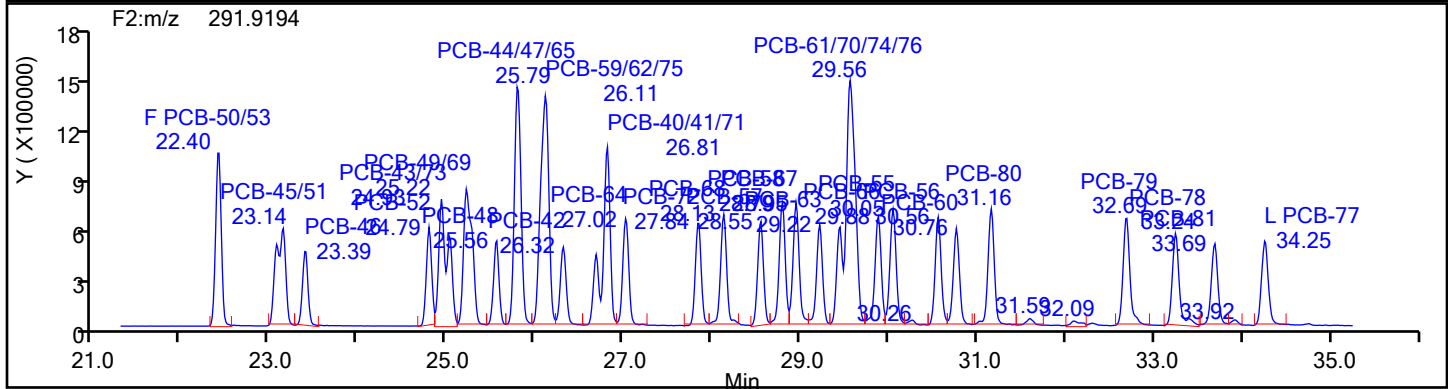
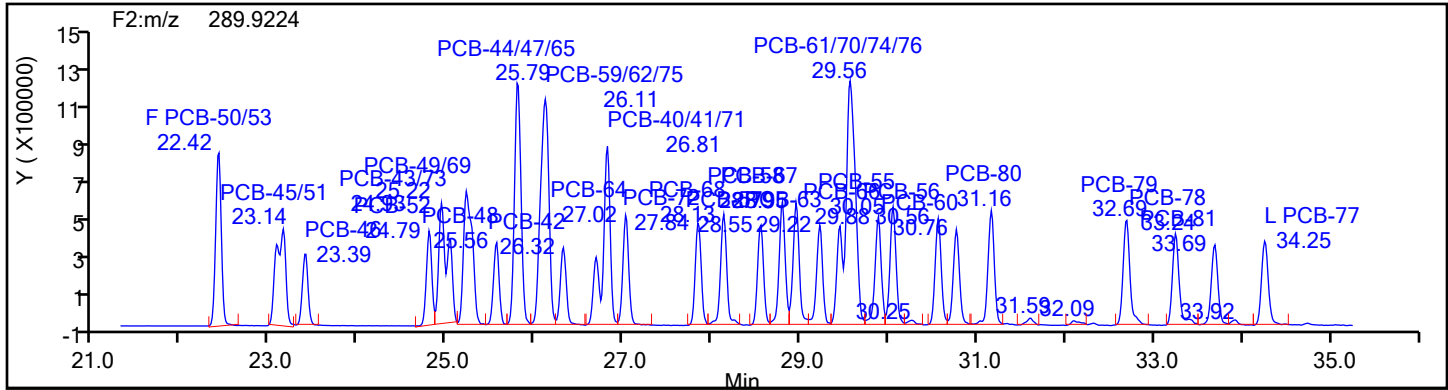
Worklist#: 88362

Sample Line#: 1

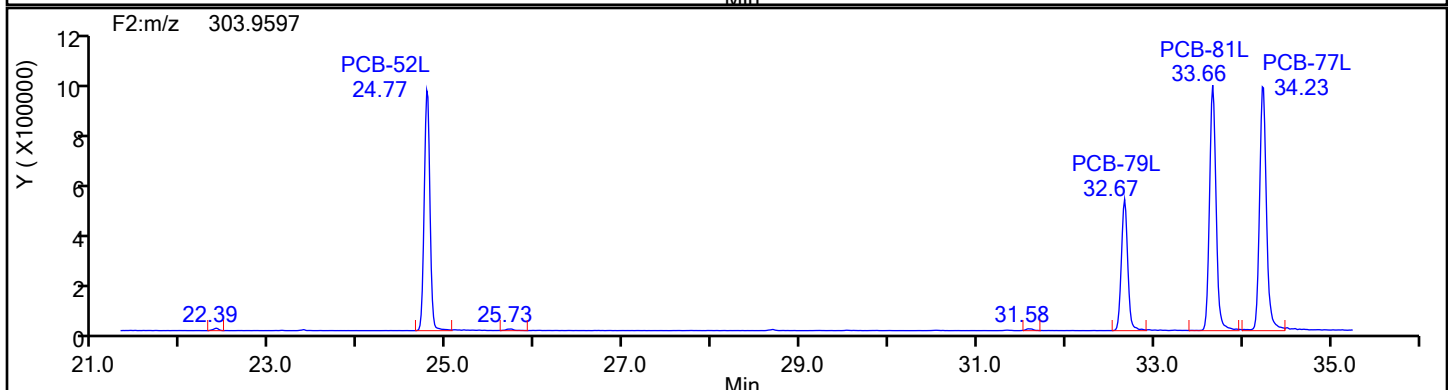
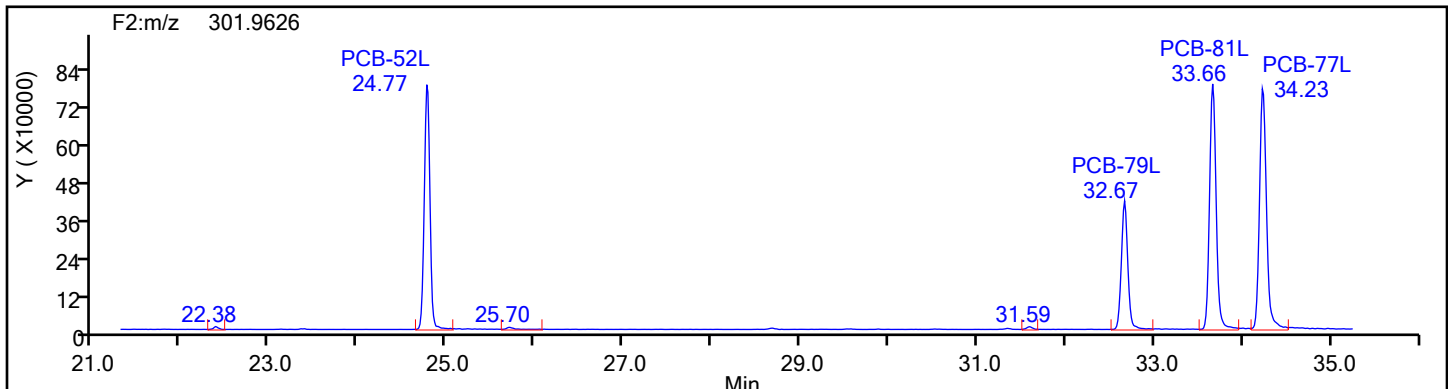
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

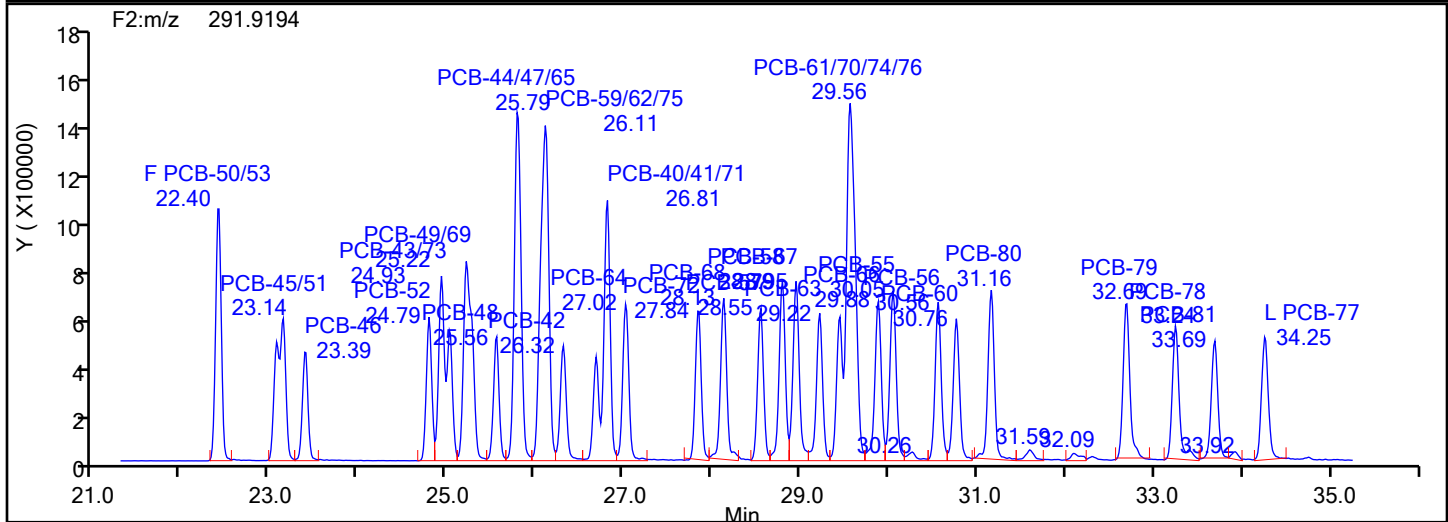
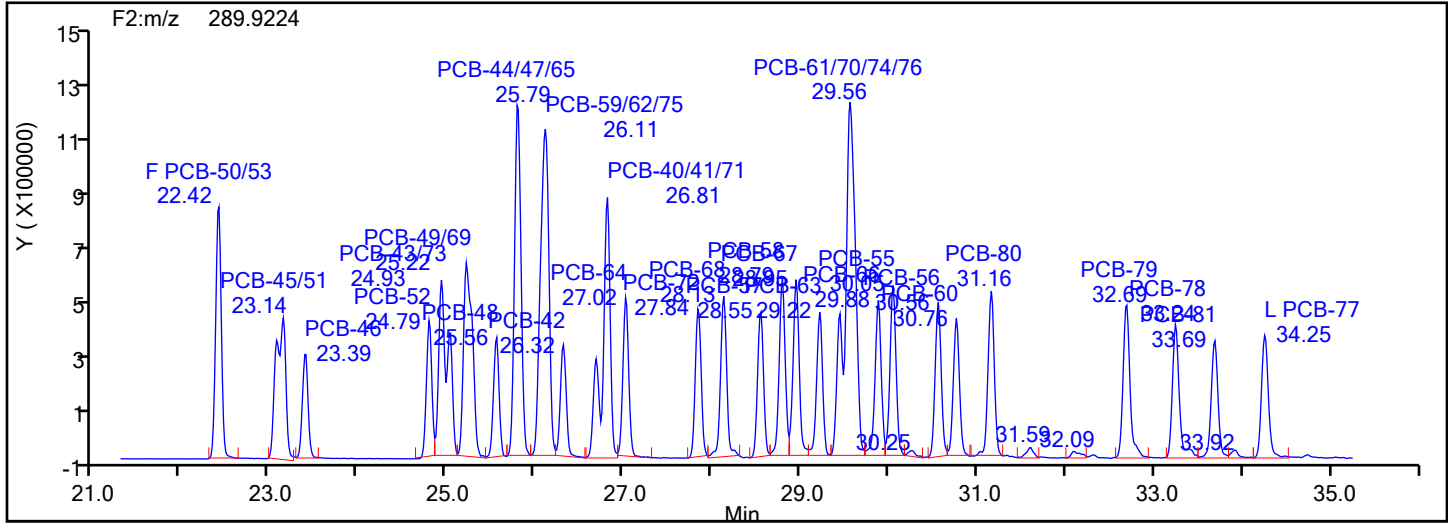
Worklist#: 88362

Sample Line#: 1

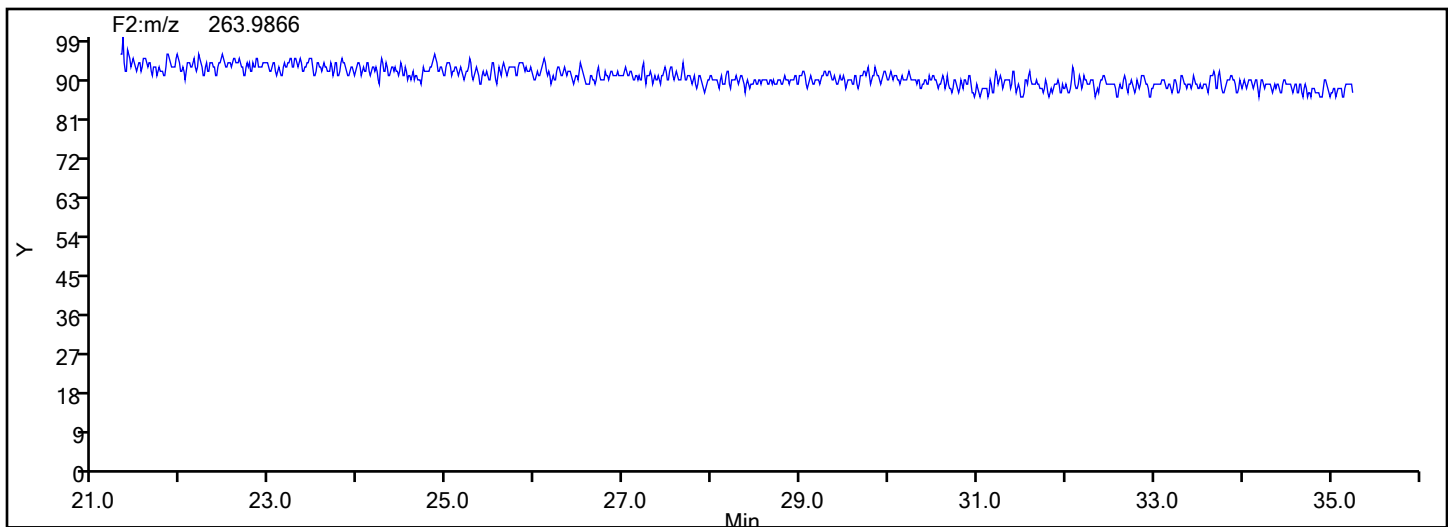
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

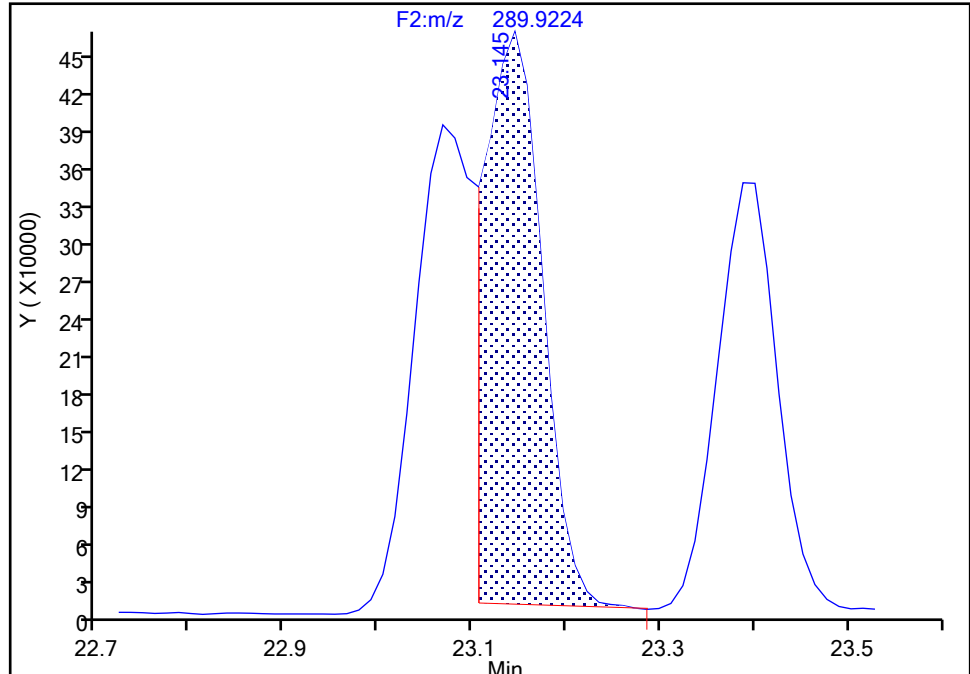
Detector F2(21.81 :35.54 )

**PCB-45/51, CAS: STL01804**

Signal: 1

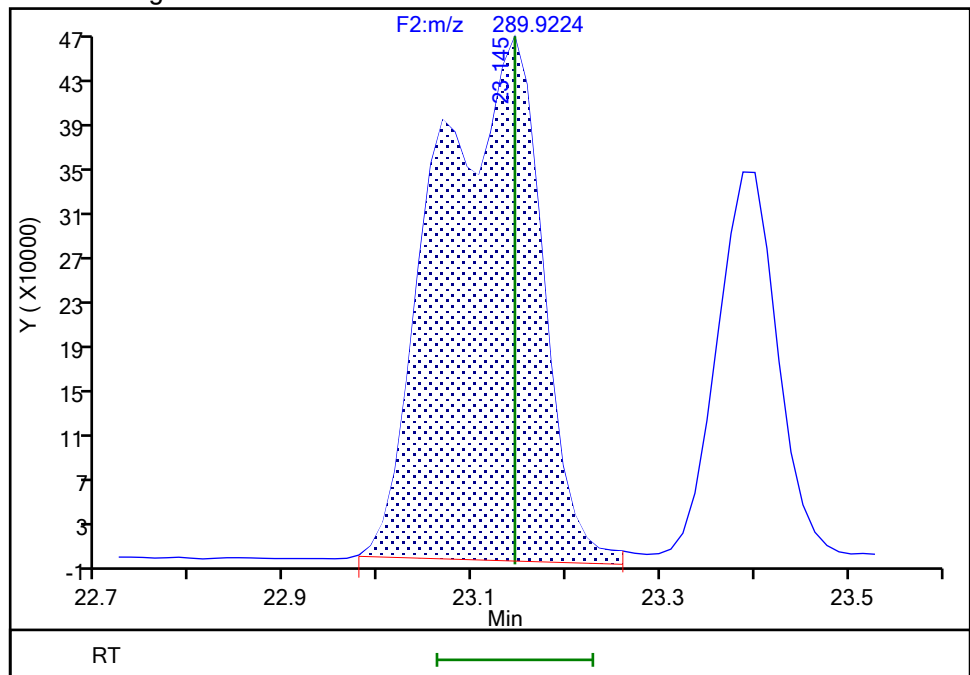
RT: 23.14  
Area: 1870020  
Amount: 81.954138  
Amount Units: pg/ul

## Processing Integration Results



RT: 23.14  
Area: 3614877  
Amount: 104.5349  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:10:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

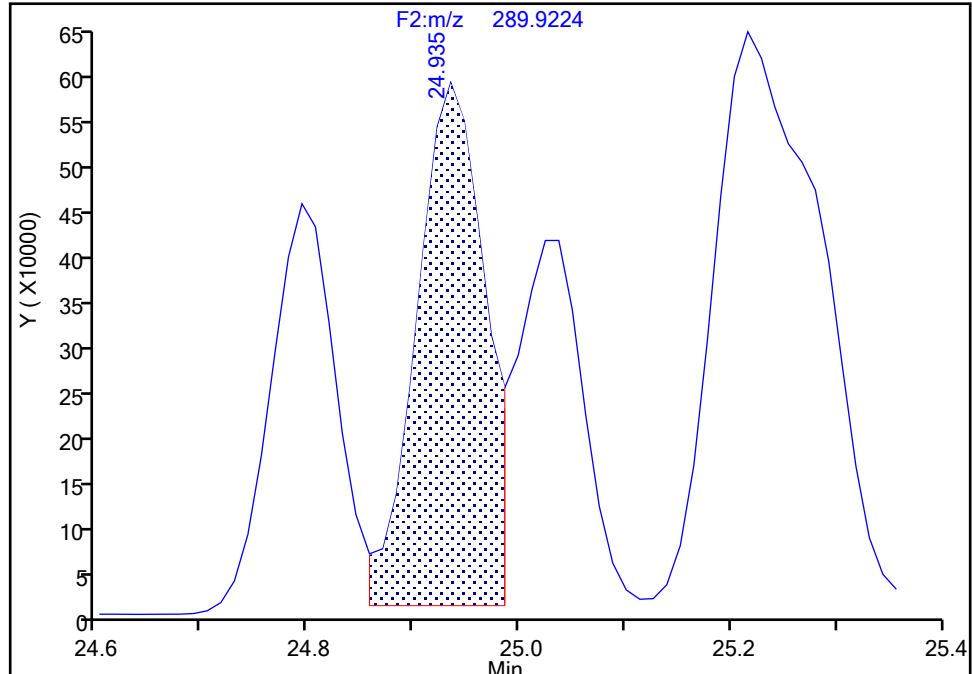
Detector F2(21.81 :35.54 )

**PCB-43/73, CAS: STL02293**

Signal: 1

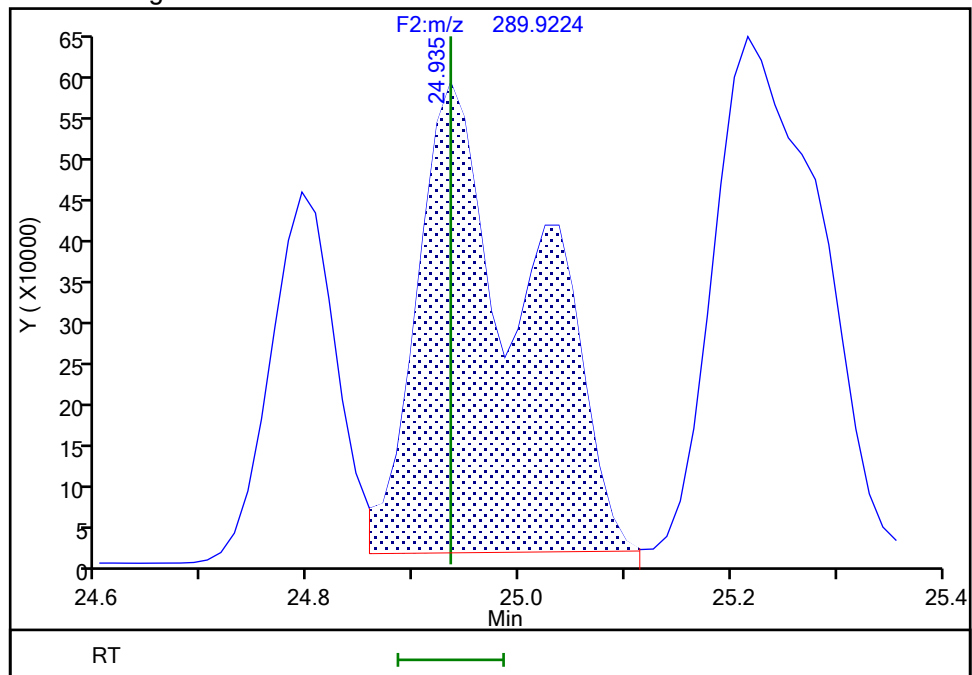
RT: 24.93  
Area: 2576817  
Amount: 61.150948  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 4279260  
Amount: 102.4544  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:10:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

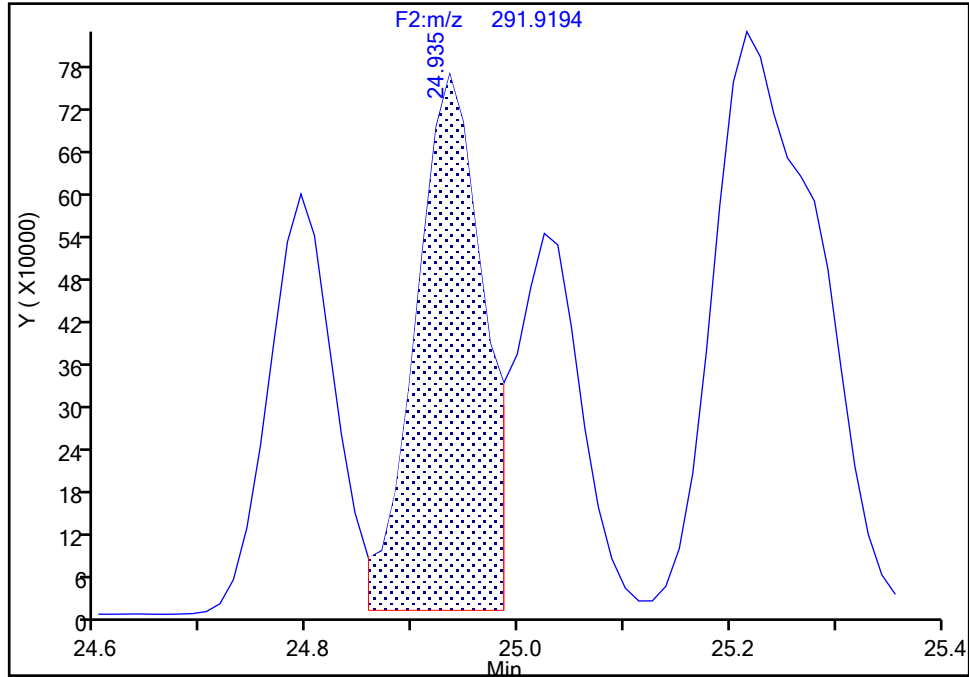
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-43/73, CAS: STL02293

Signal: 2

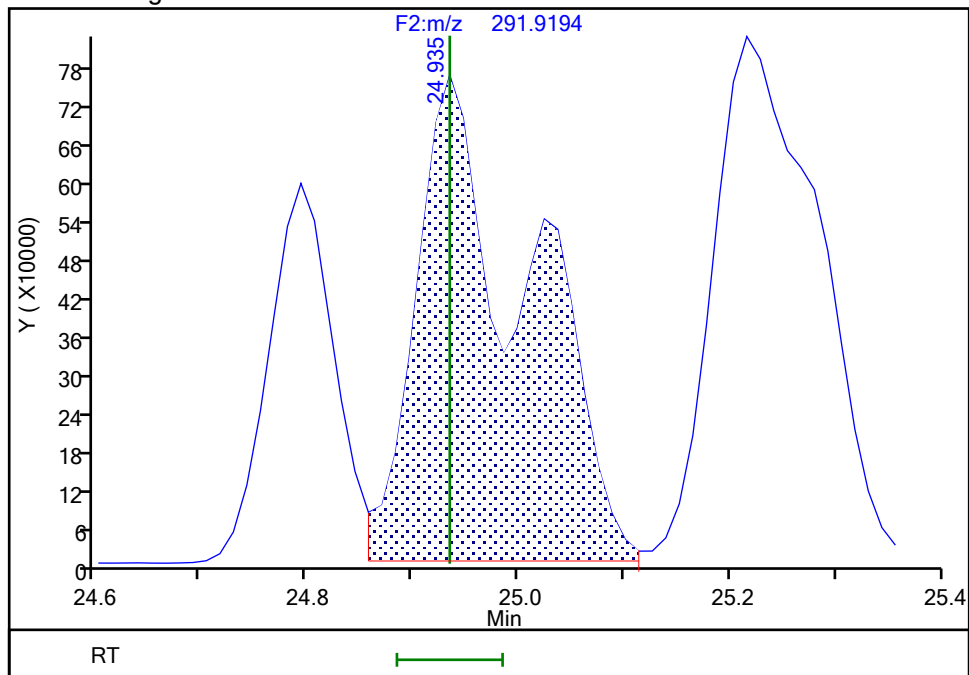
RT: 24.93  
Area: 3331506  
Amount: 61.150948  
Amount Units: pg/ul

## Processing Integration Results



RT: 24.93  
Area: 5619750  
Amount: 102.4544  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:11:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

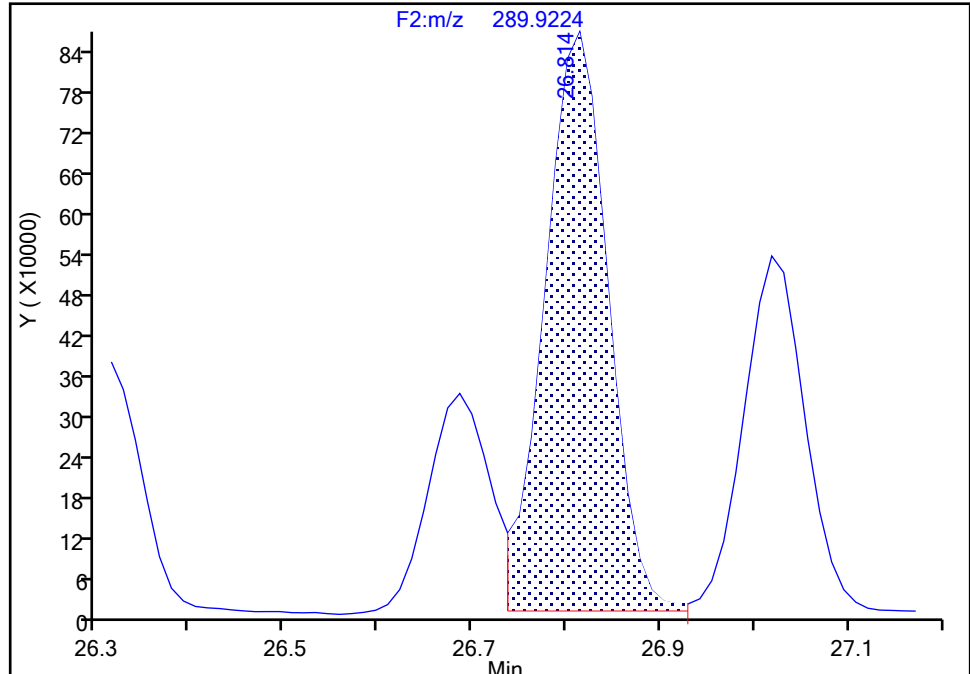
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-40/41/71, CAS: STL02292**

Signal: 1

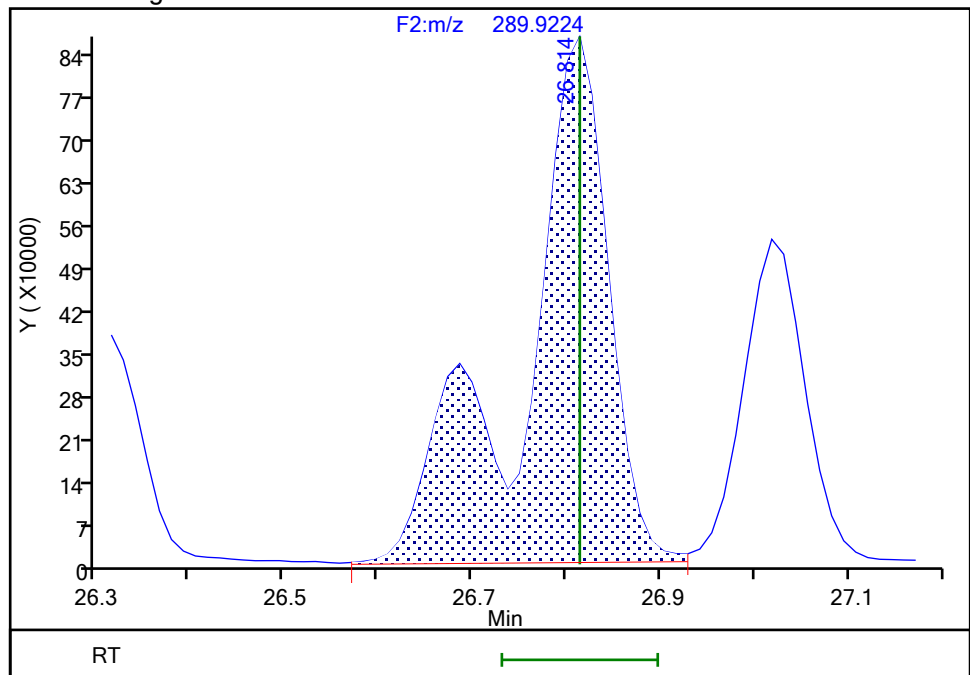
RT: 26.81  
Area: 3977782  
Amount: 131.2320  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.81  
Area: 5495593  
Amount: 149.5469  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:11:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

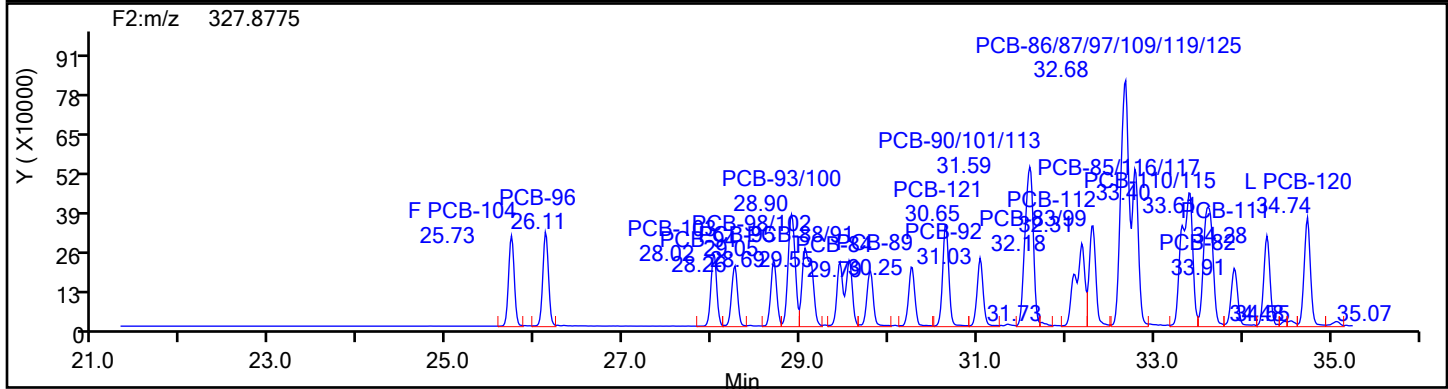
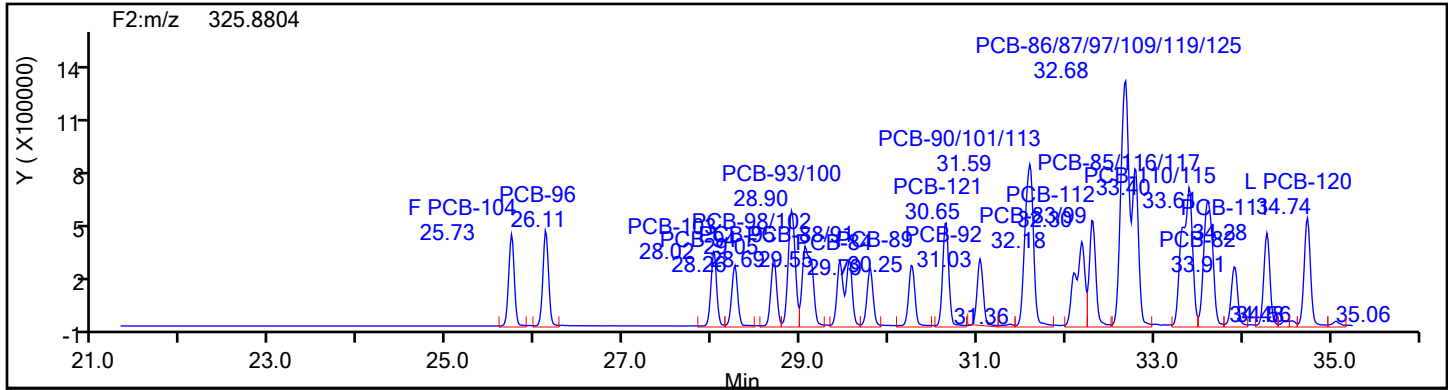
Worklist#: 88362

Sample Line#: 1

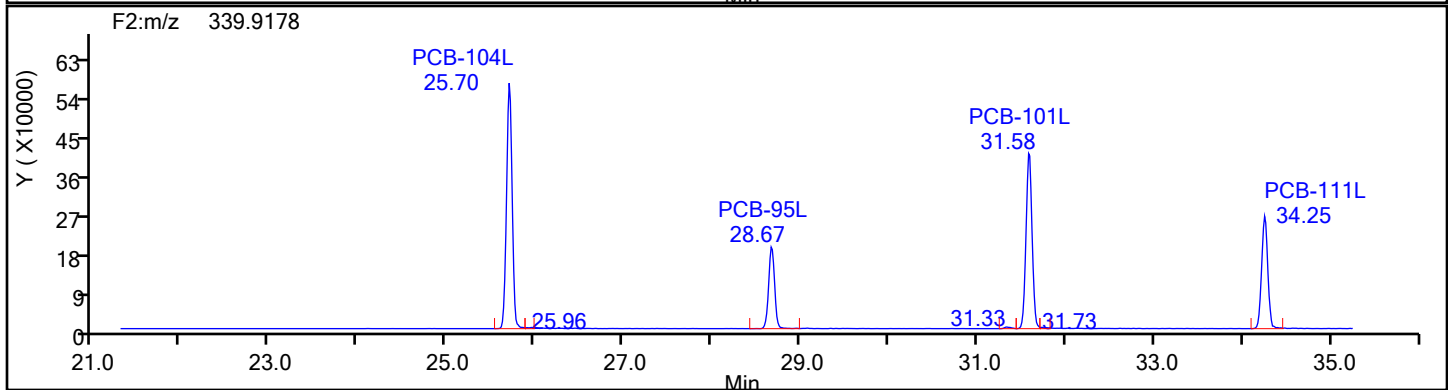
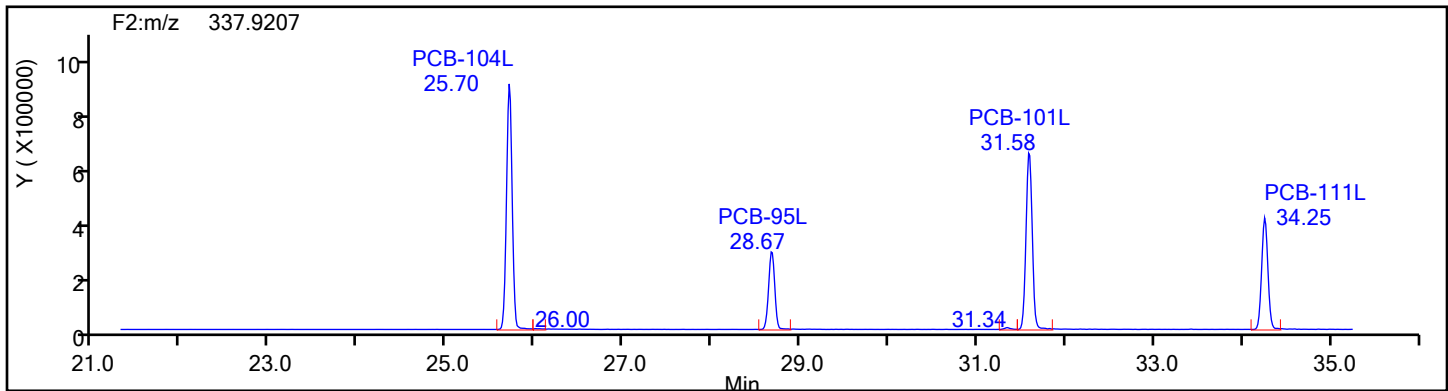
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2

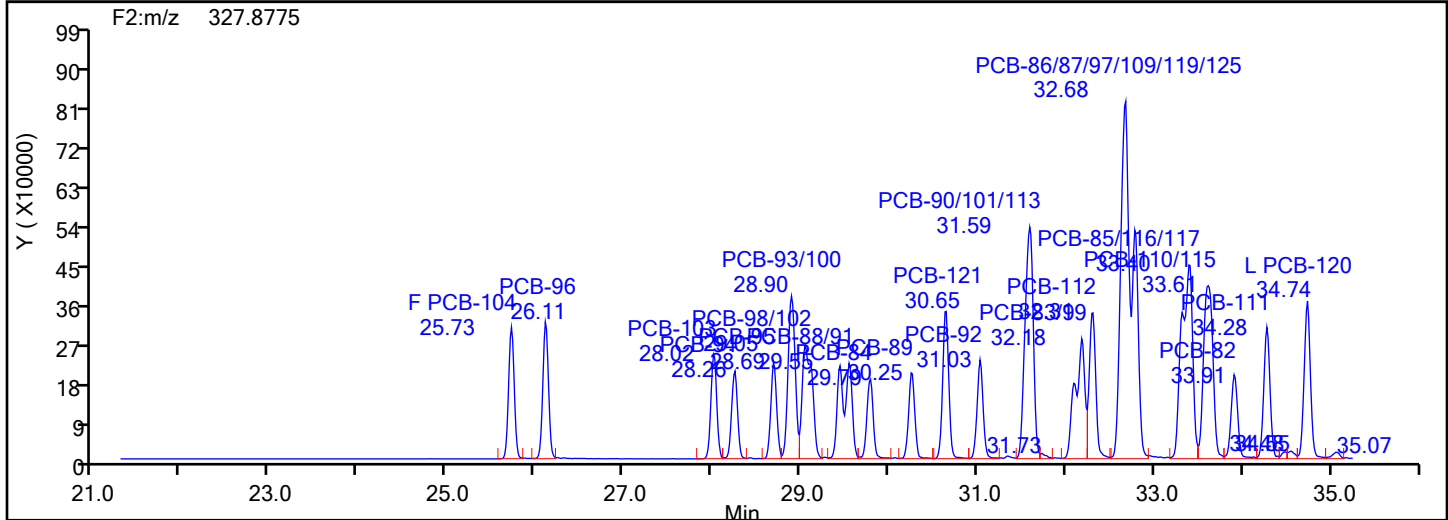
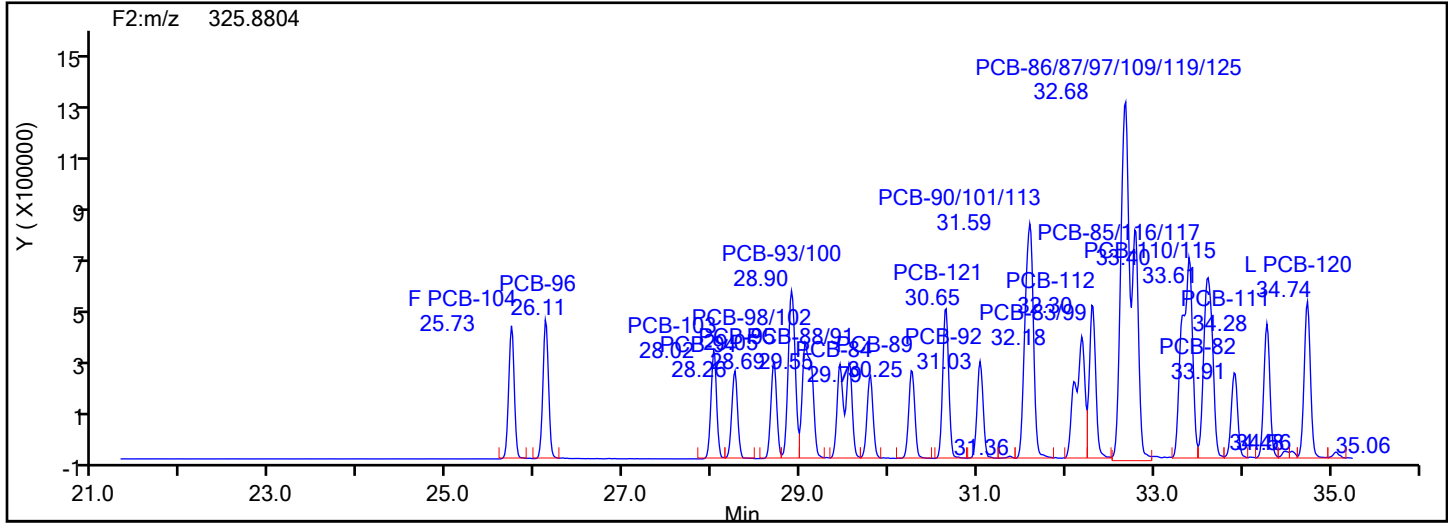


PePCB F2 Standards

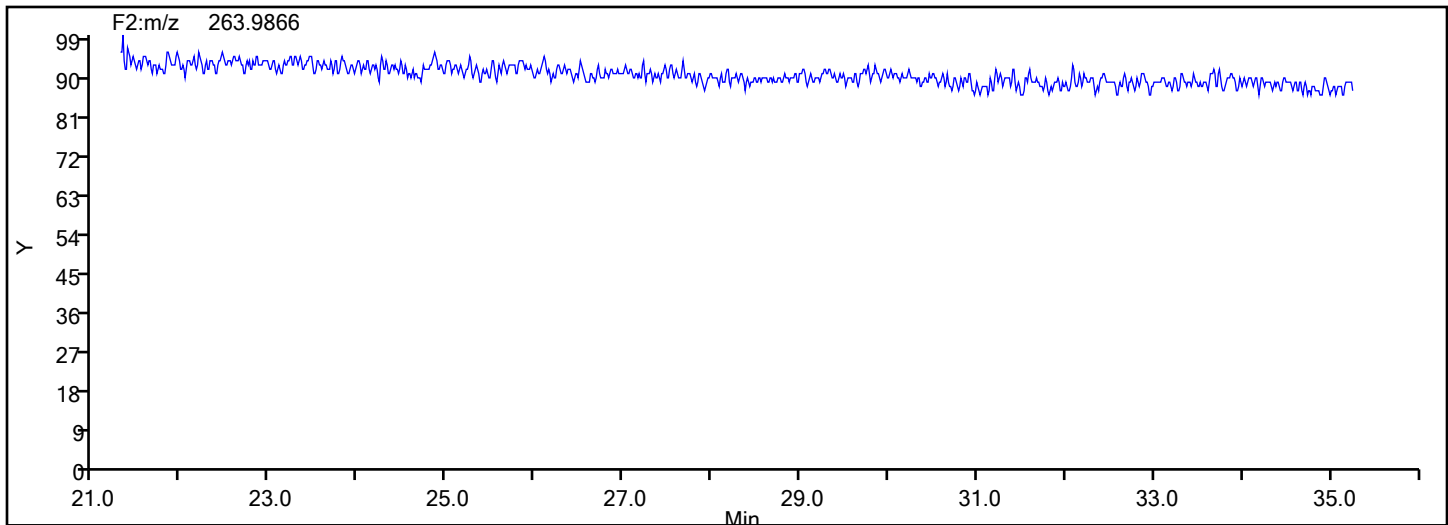


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

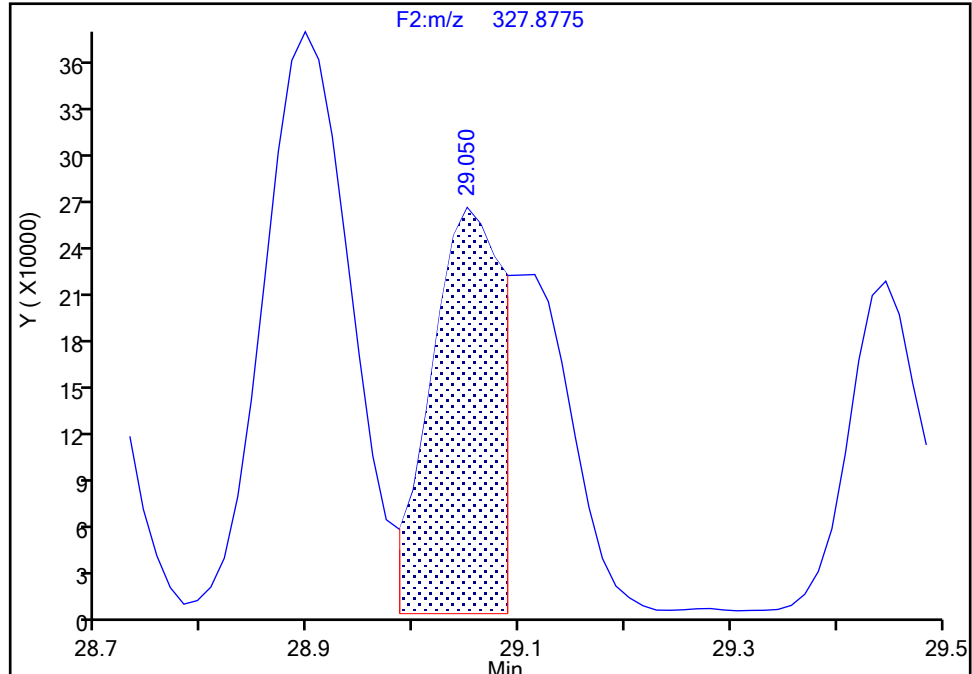
Detector F2(21.81 :35.54 )

PCB-98/102, CAS: STL01843

Signal: 2

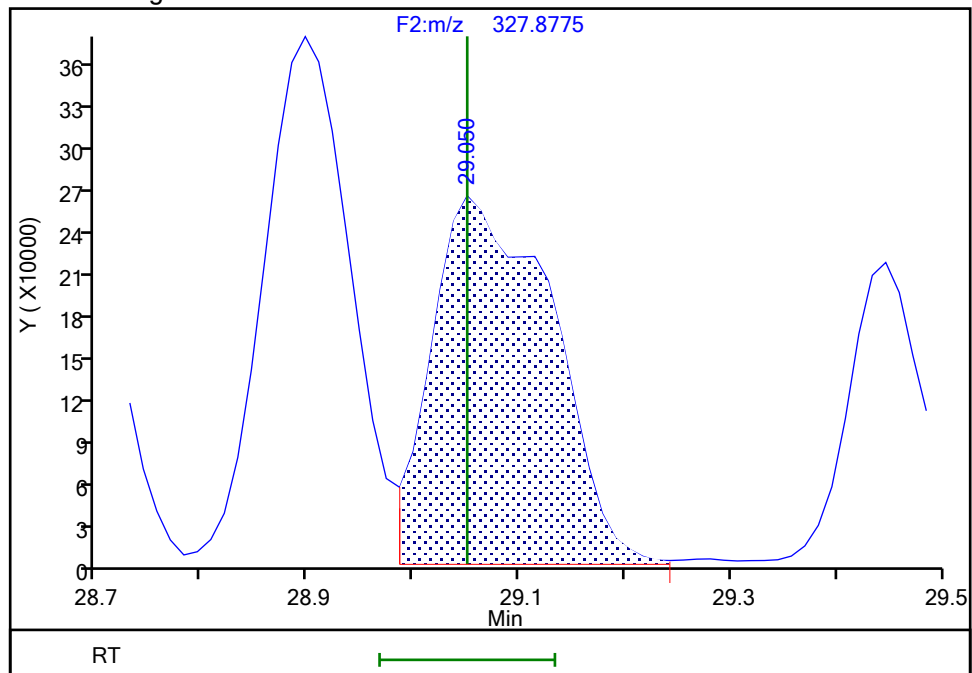
RT: 29.05  
Area: 1173488  
Amount: 83.083117  
Amount Units: pg/ul

## Processing Integration Results



RT: 29.05  
Area: 2059361  
Amount: 99.369722  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:11:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

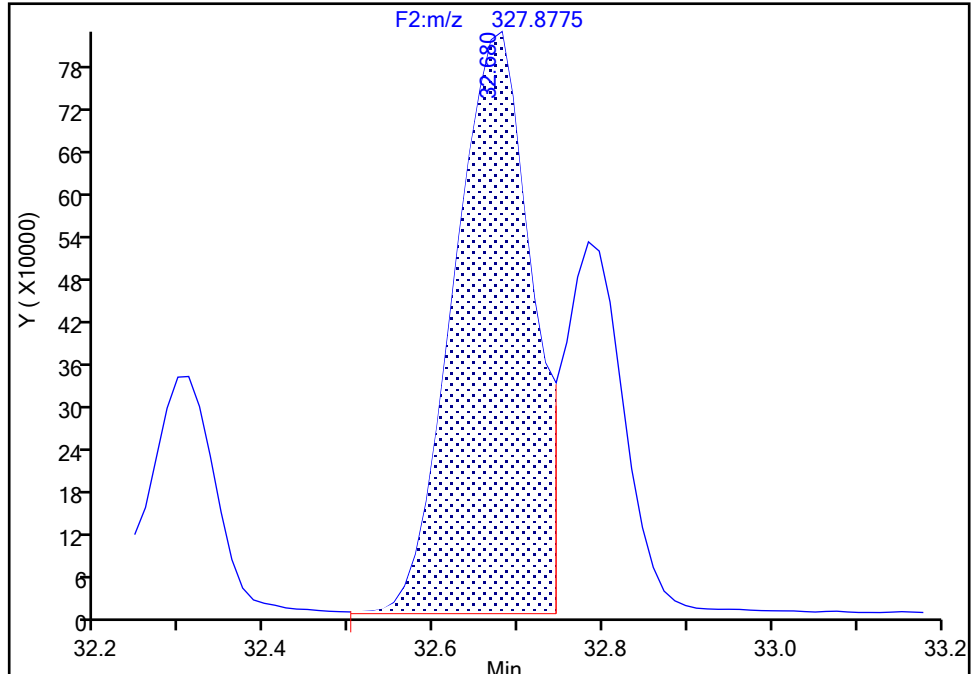
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 2

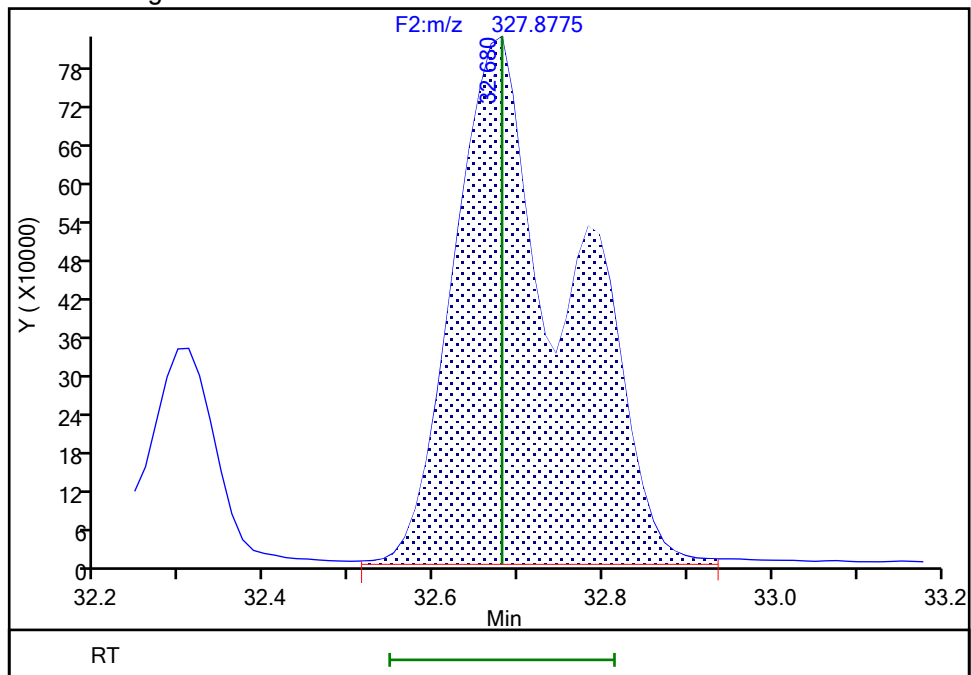
RT: 32.68  
Area: 5235573  
Amount: 195.8252  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.68  
Area: 7760895  
Amount: 293.0208  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:12:12 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

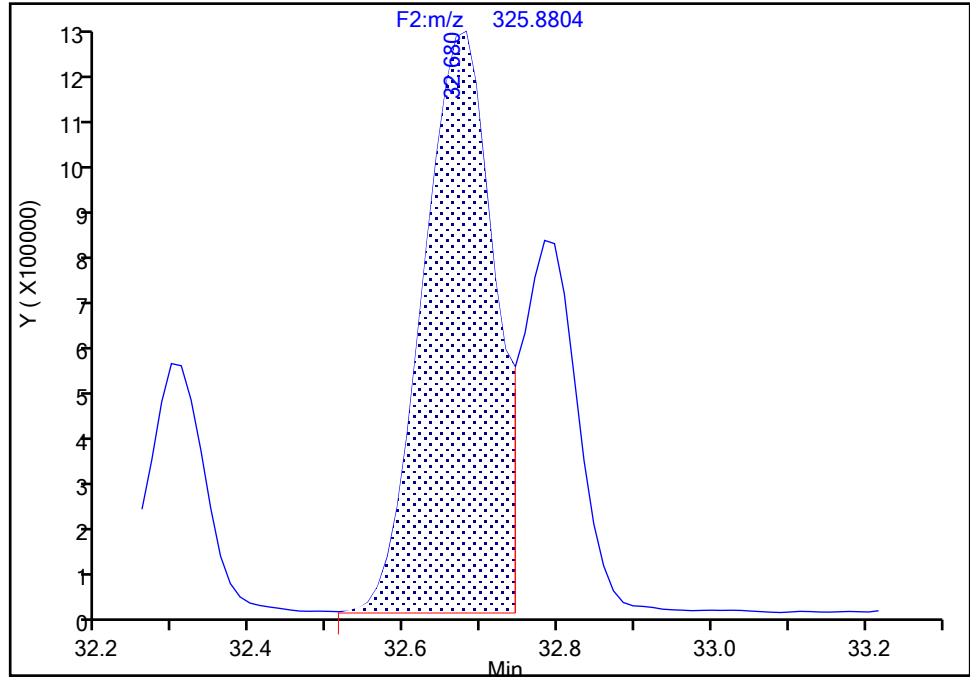
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-86/87/97/109/119/125, CAS: STL02295

Signal: 1

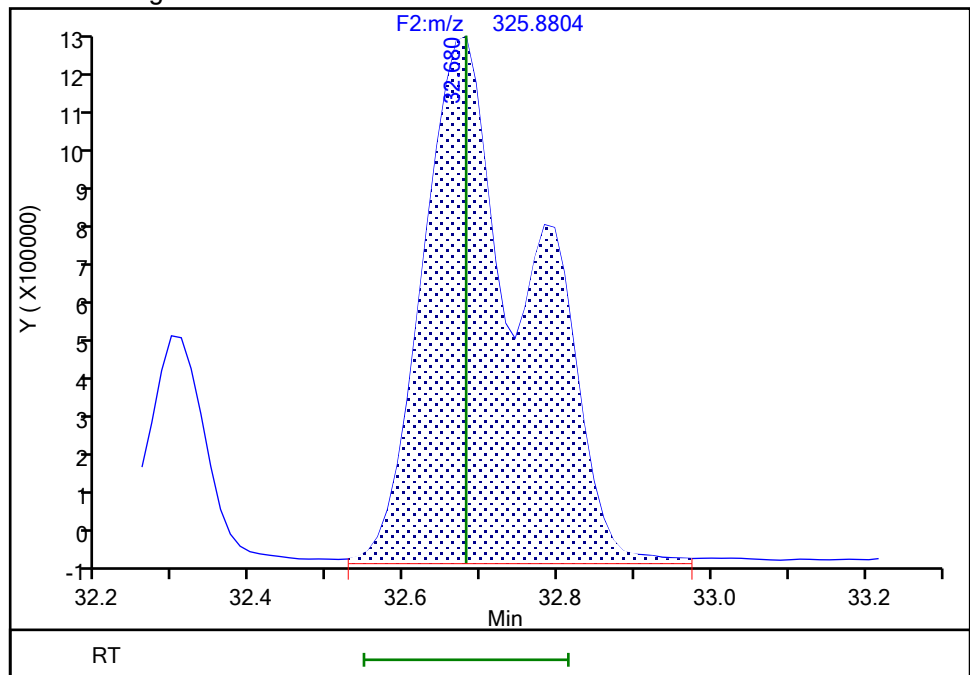
RT: 32.68  
Area: 8266688  
Amount: 195.8252  
Amount Units: pg/ul

## Processing Integration Results



RT: 32.68  
Area: 12443062  
Amount: 293.0208  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:12:18 -04:00:00 (UTC)

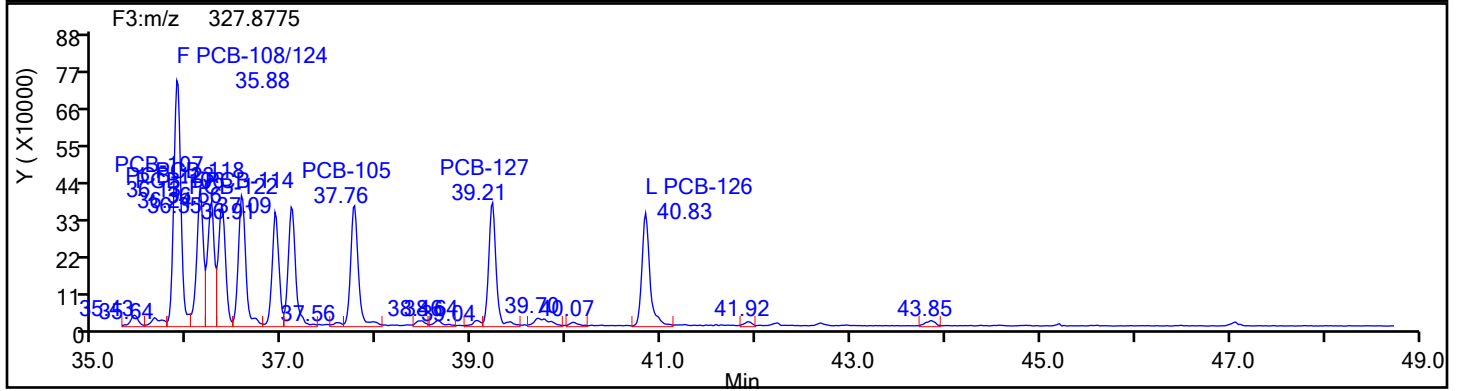
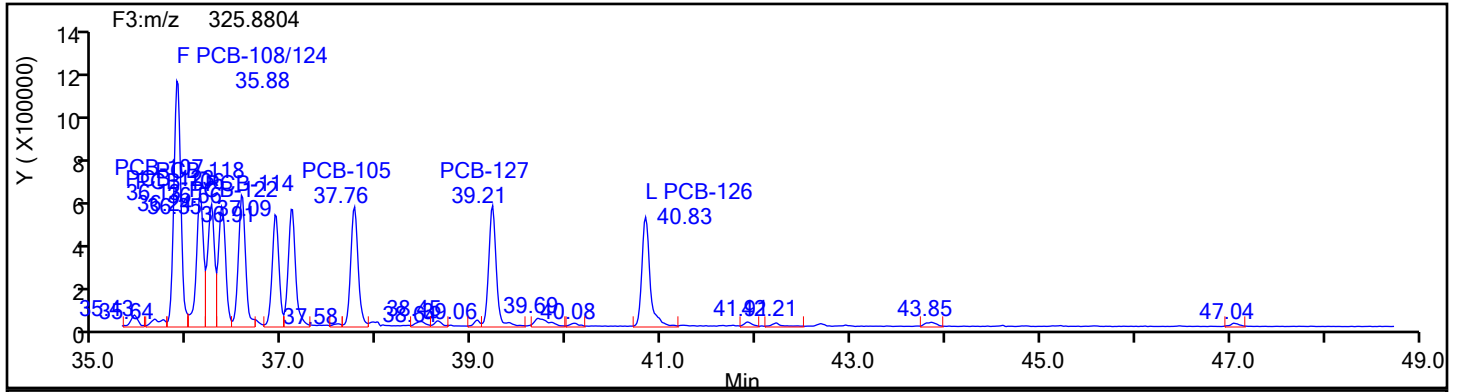
Audit Action: Manually Integrated

Audit Reason: Baseline

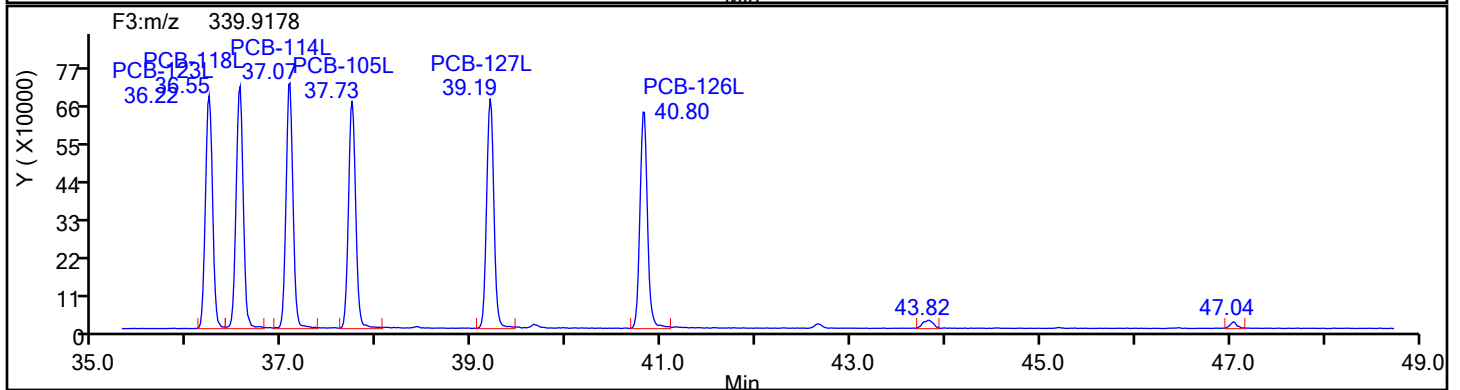
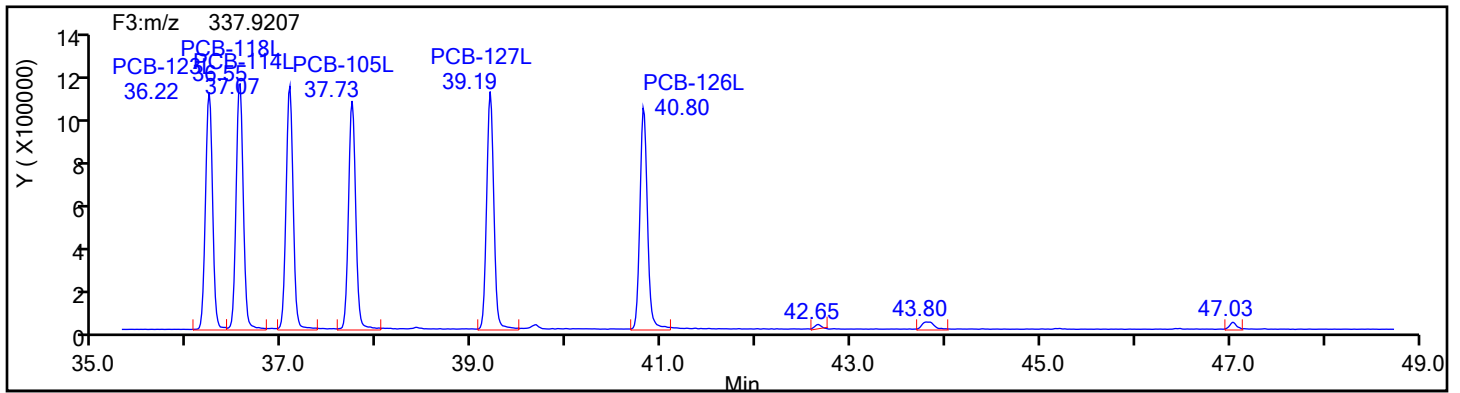


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
PePCB F3



## PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

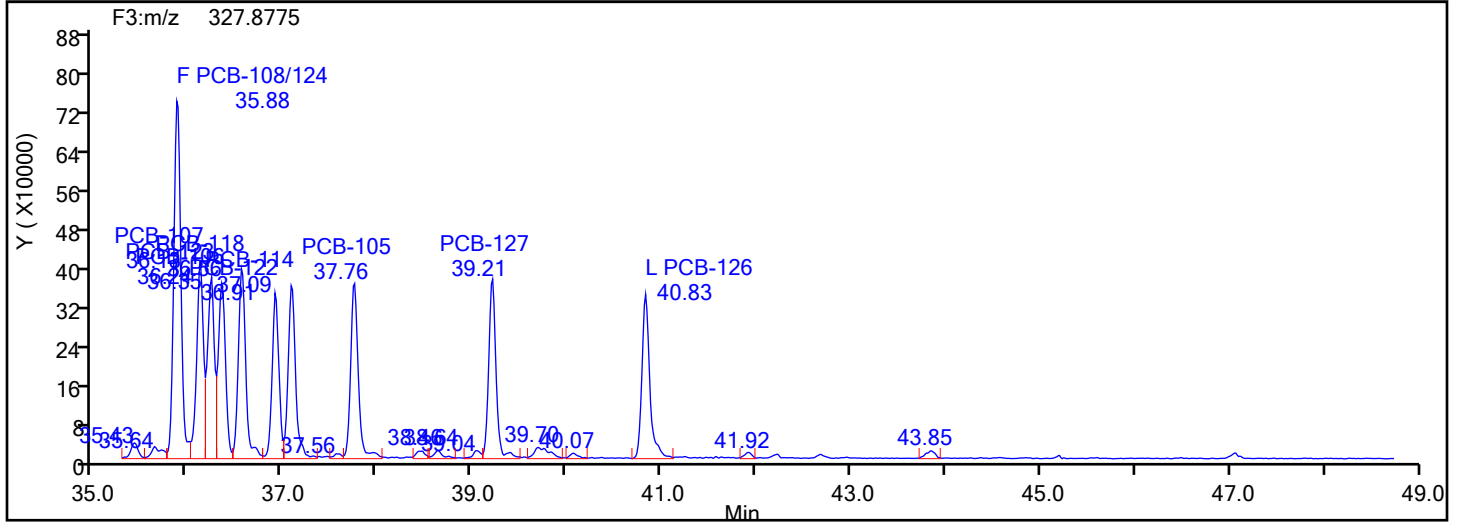
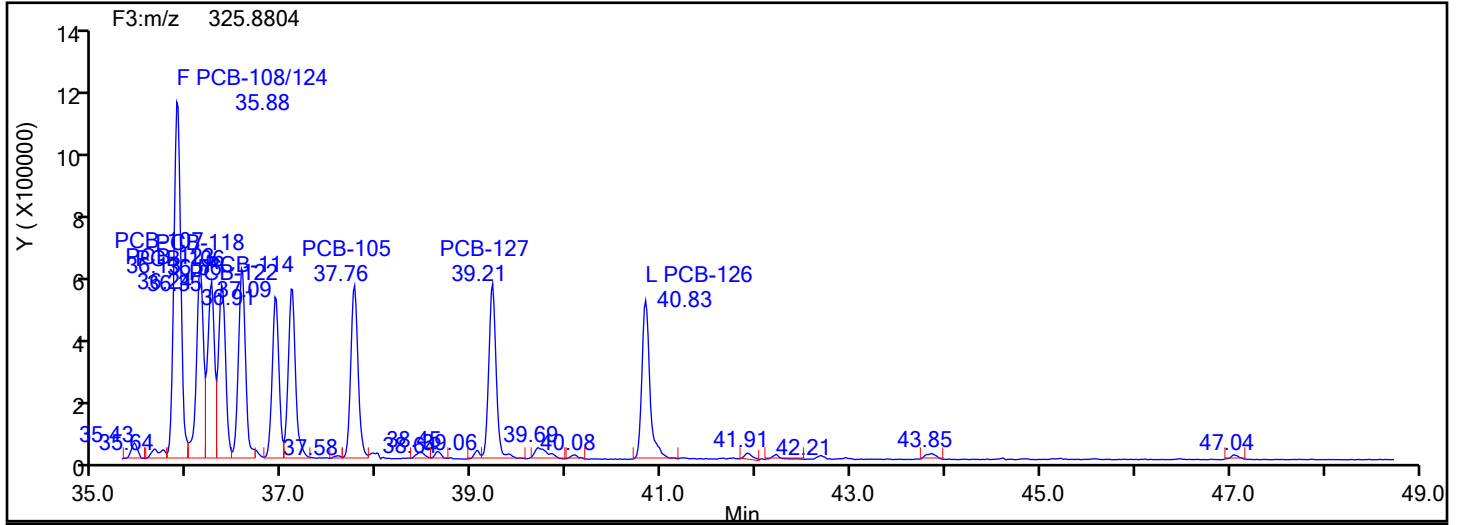
Worklist#: 88362

Sample Line#: 1

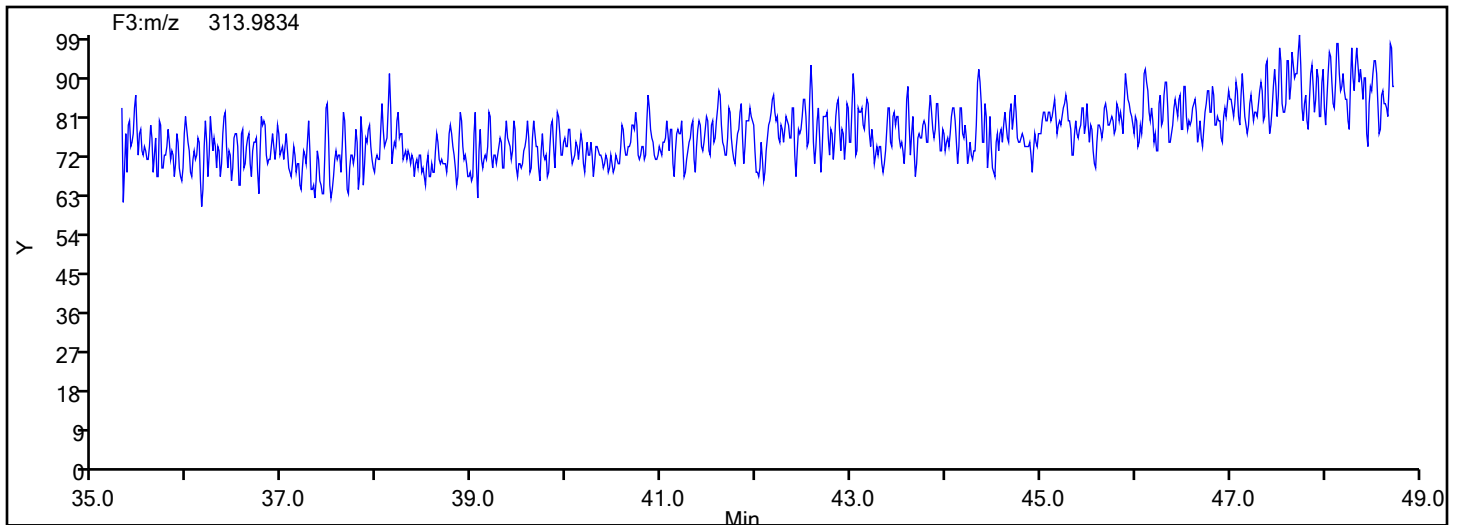
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3

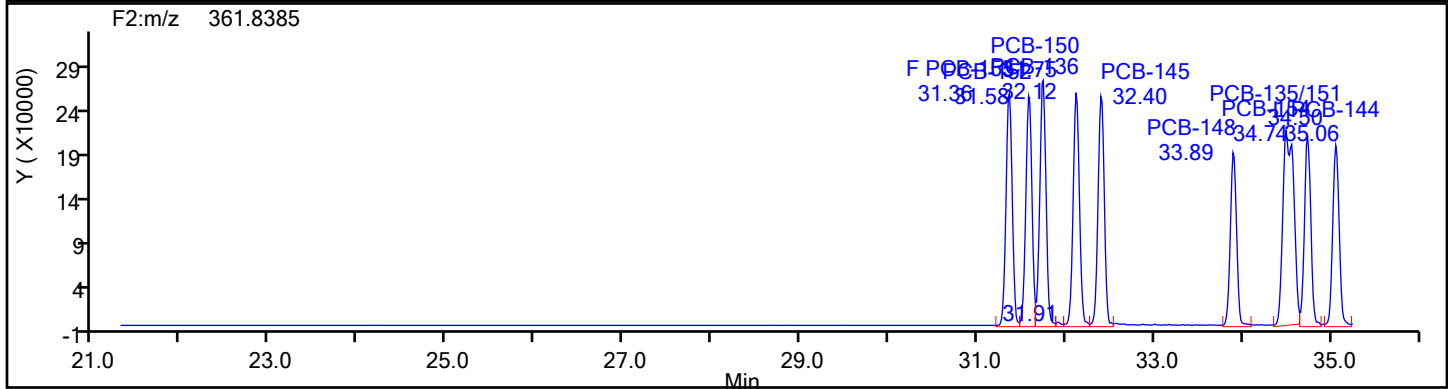
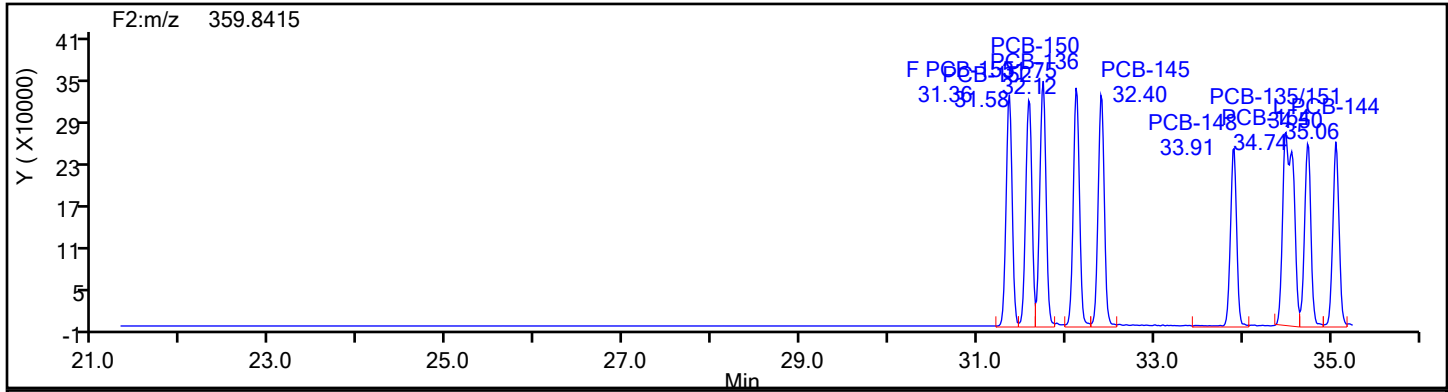


## PePCB F3 Lock Mass

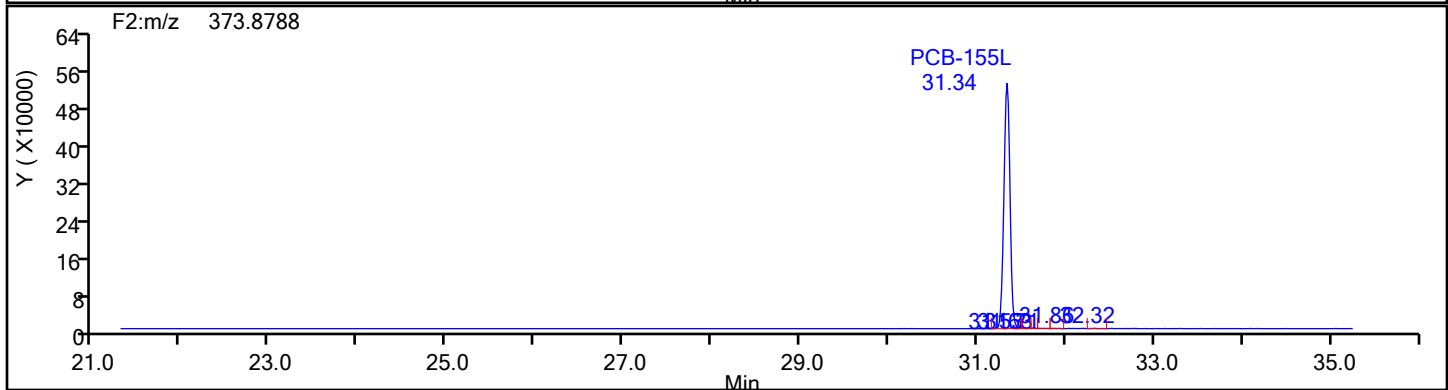
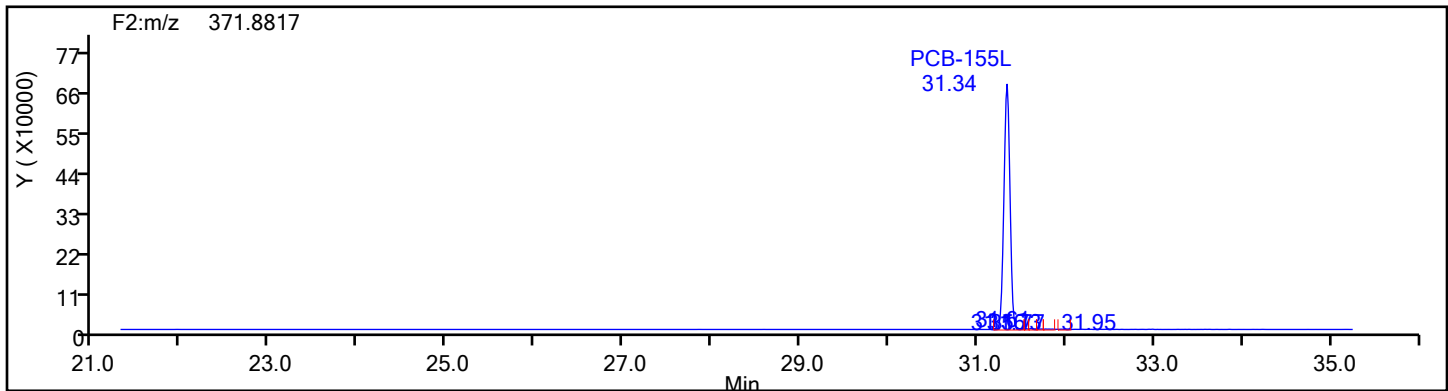


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2

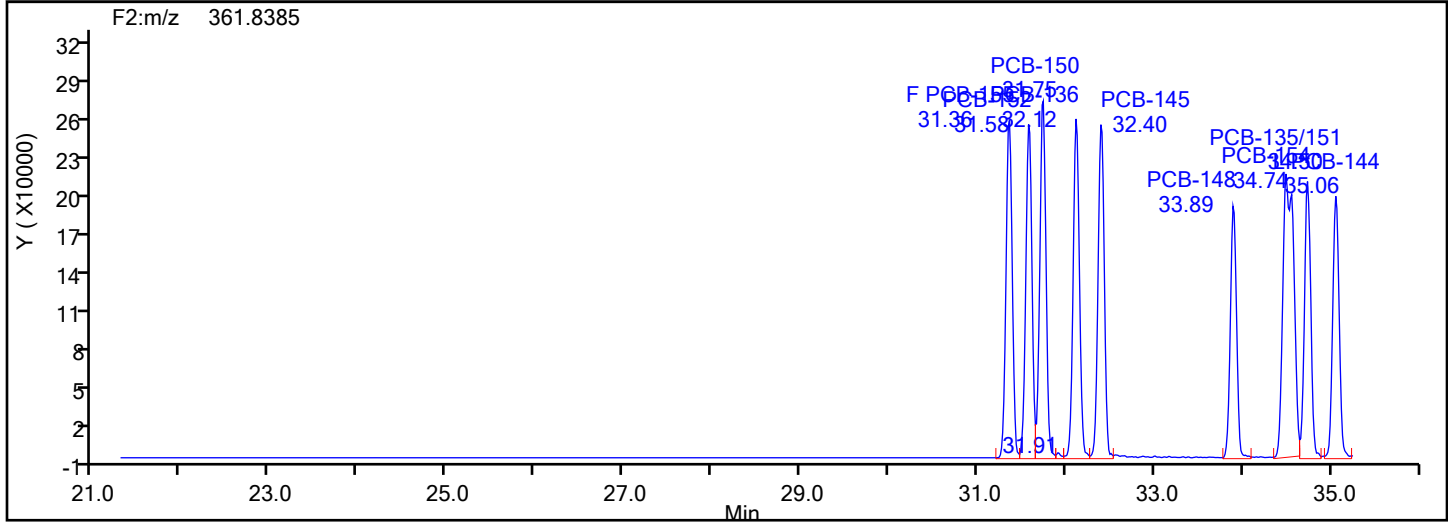
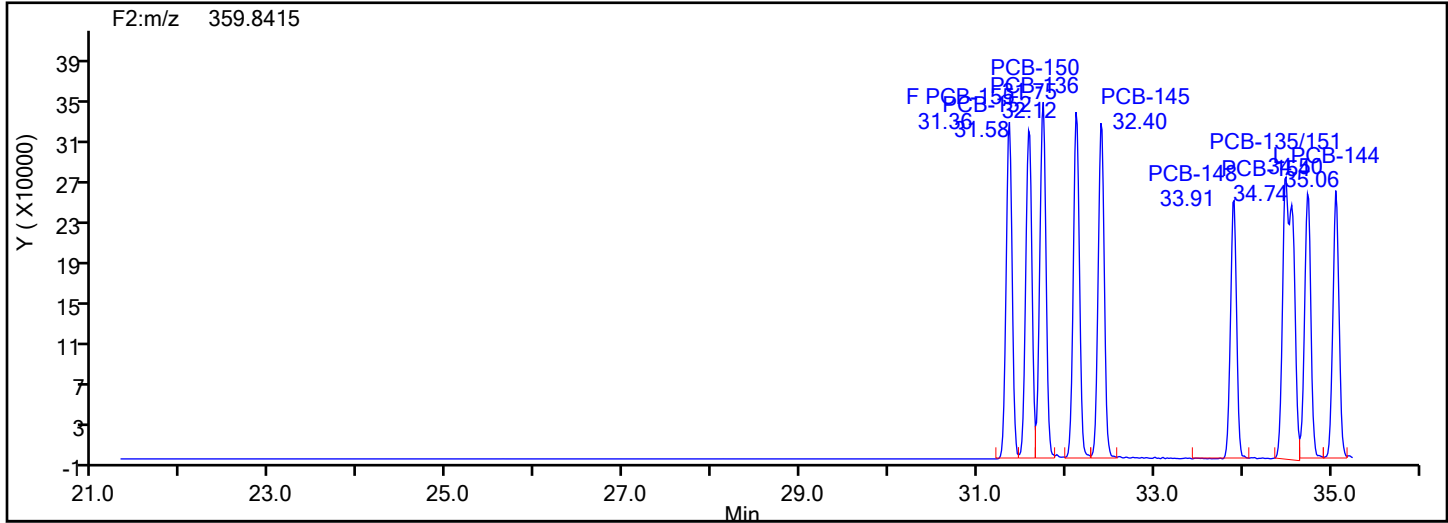


## HxPCB F2 Standards

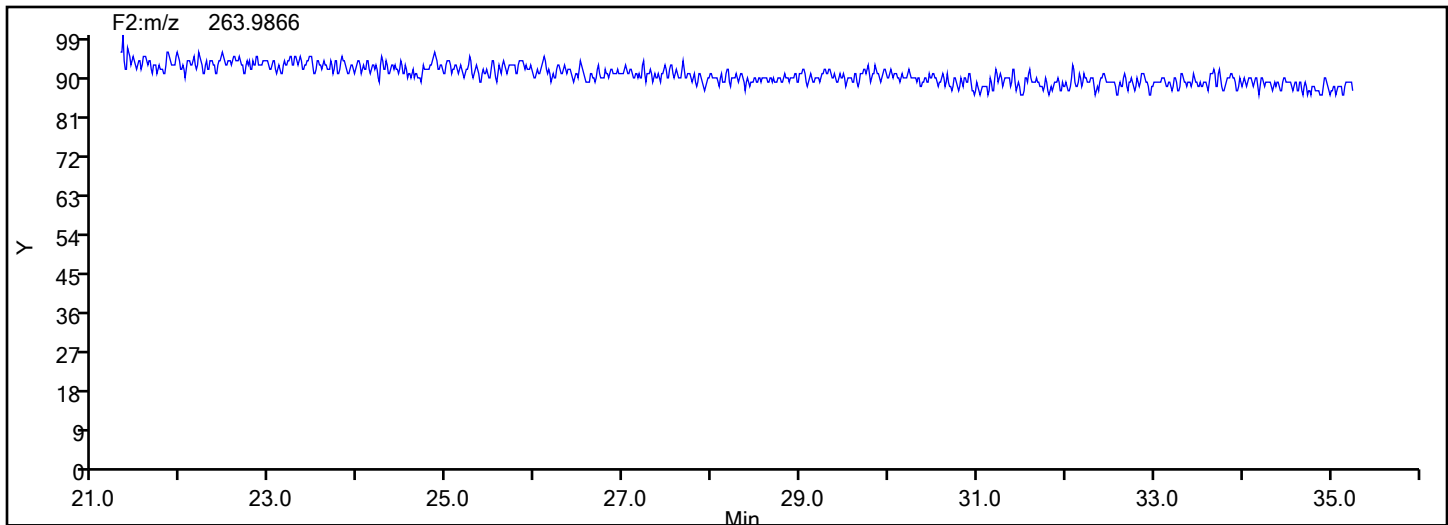


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

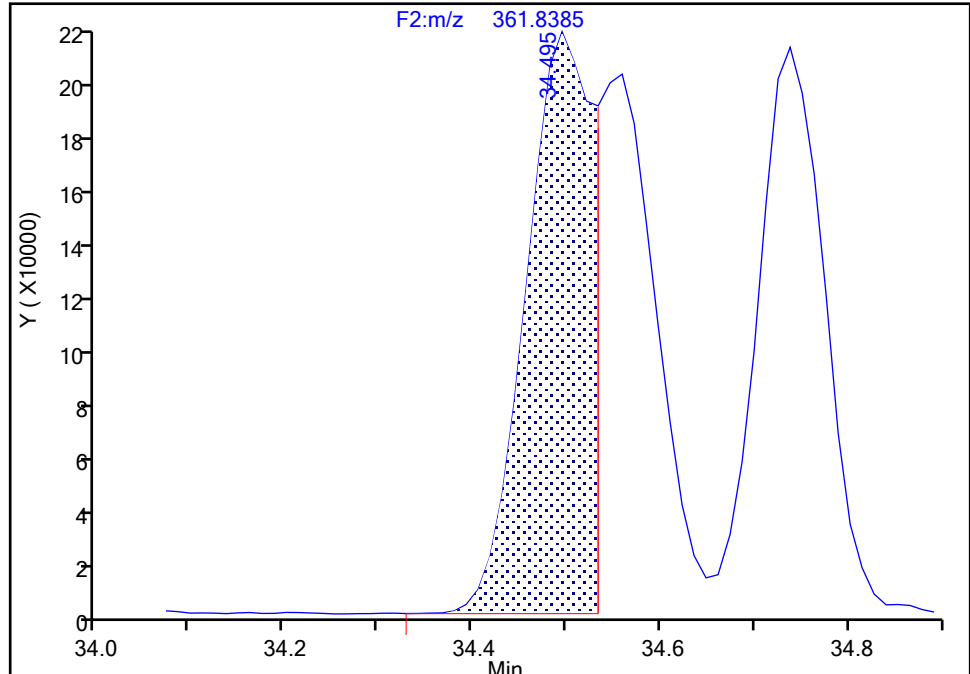
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector: F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 2

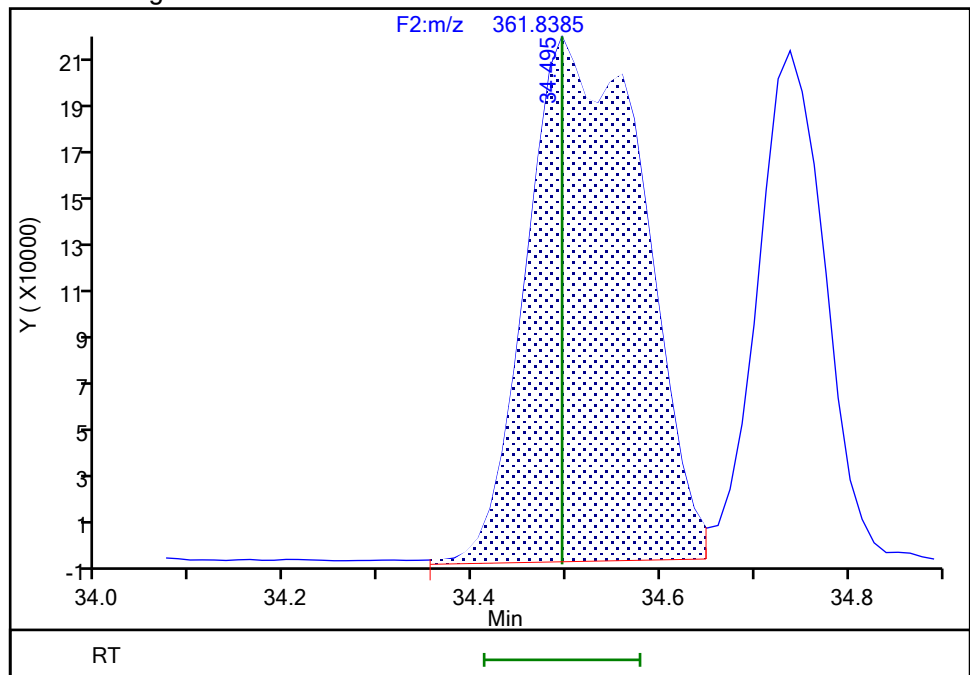
RT: 34.50  
Area: 1044452  
Amount: 56.111223  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.50  
Area: 1870050  
Amount: 100.5294  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:12:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

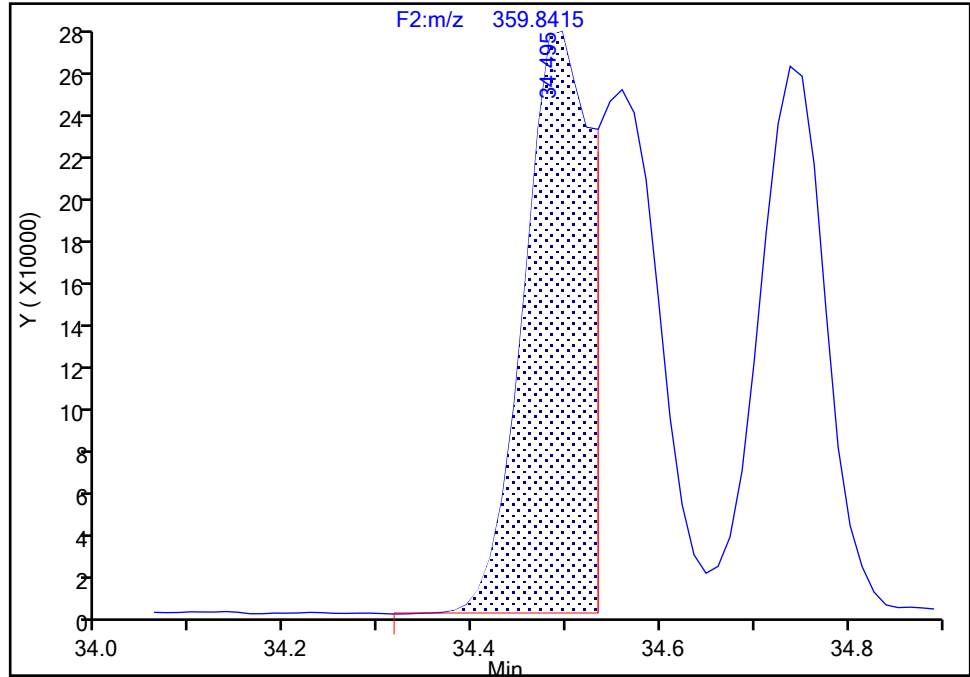
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

**PCB-135/151, CAS: STL01819**

Signal: 1

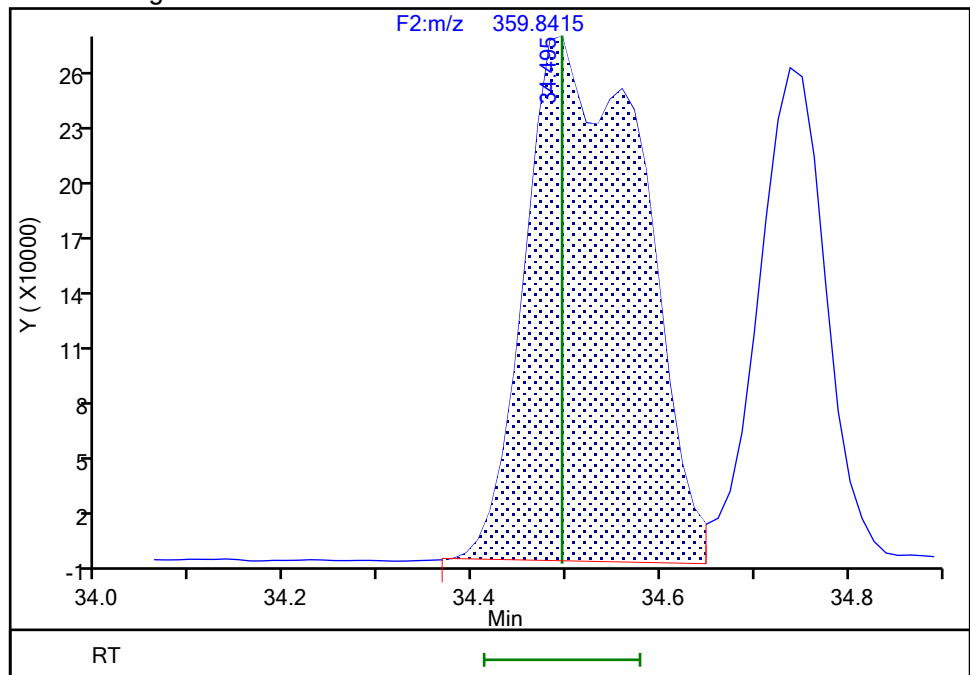
RT: 34.50  
Area: 1320145  
Amount: 56.111223  
Amount Units: pg/ul

## Processing Integration Results



RT: 34.50  
Area: 2366386  
Amount: 100.5294  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:12:52 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

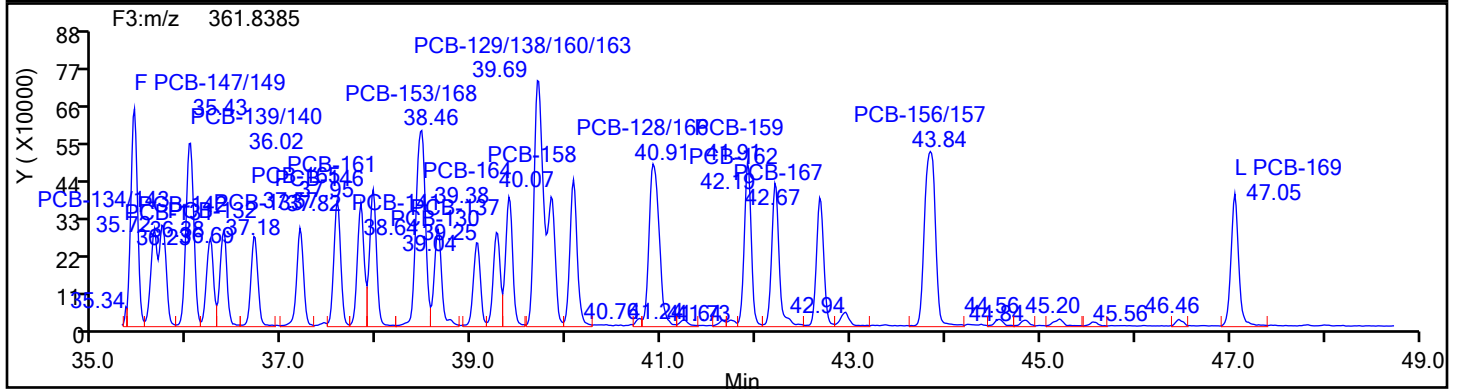
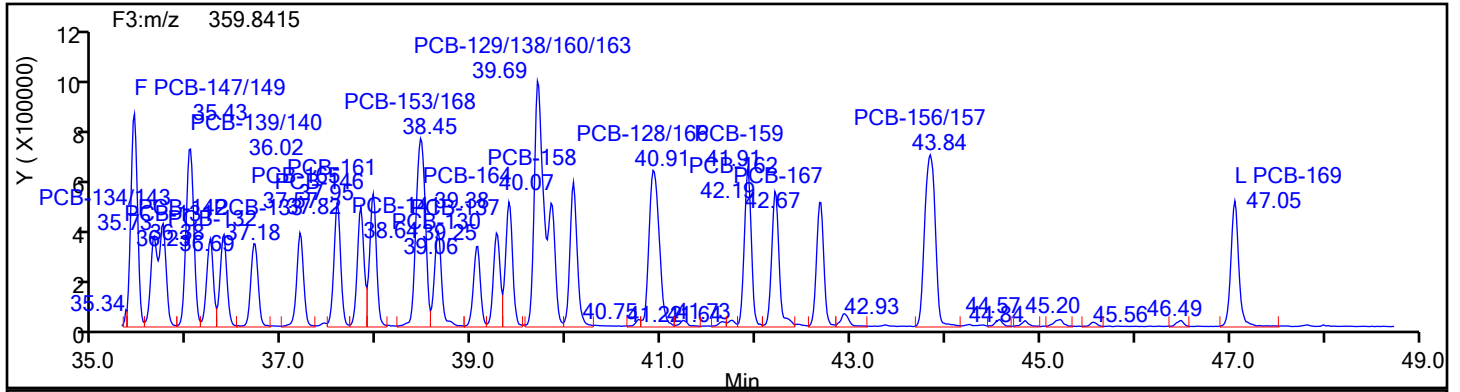
Worklist#: 88362

Sample Line#: 1

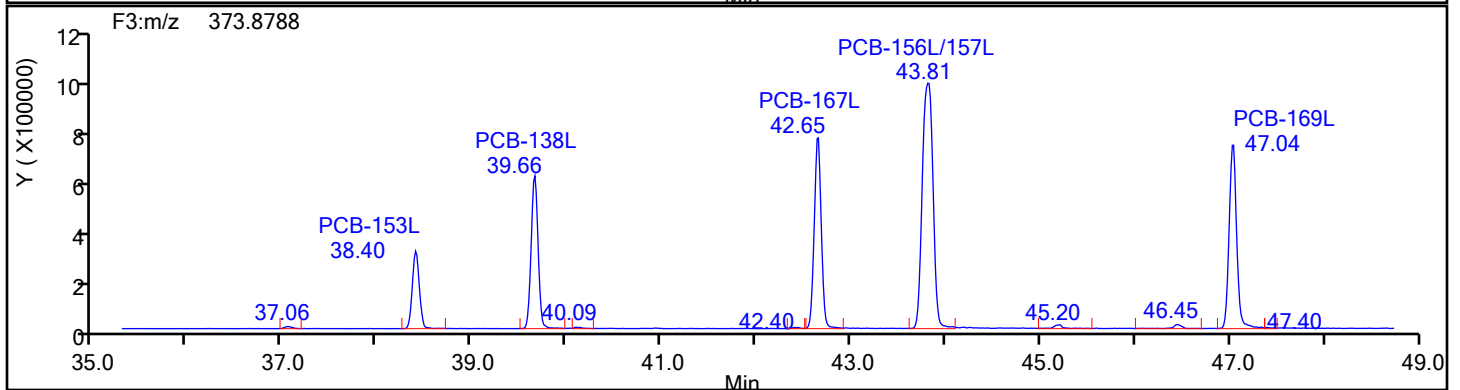
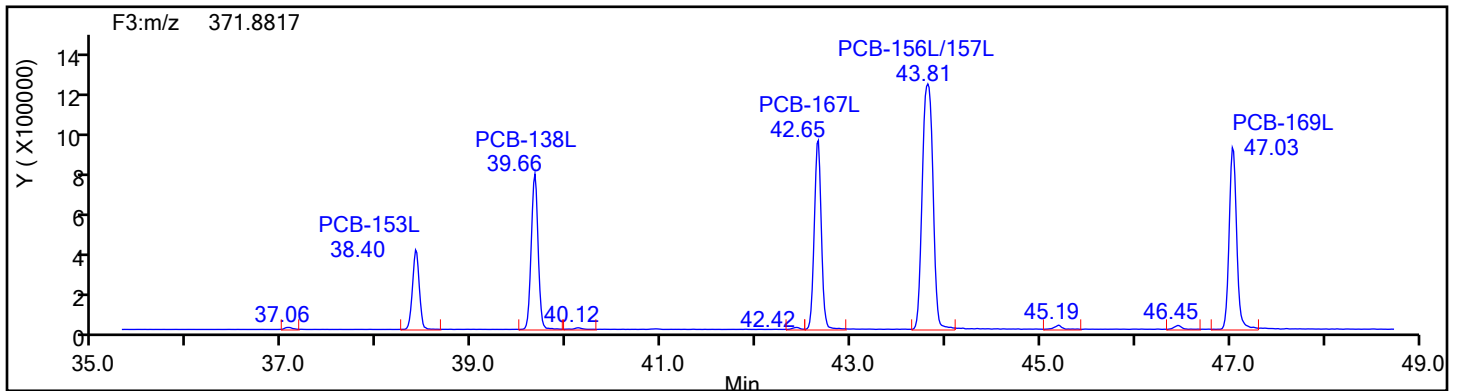
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3

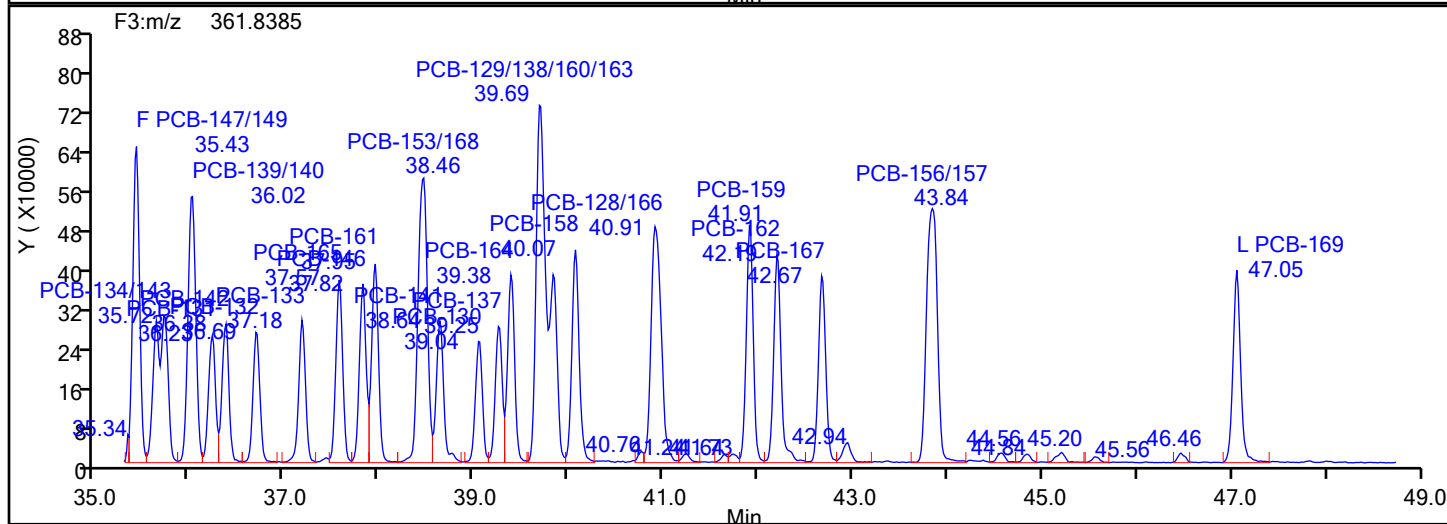
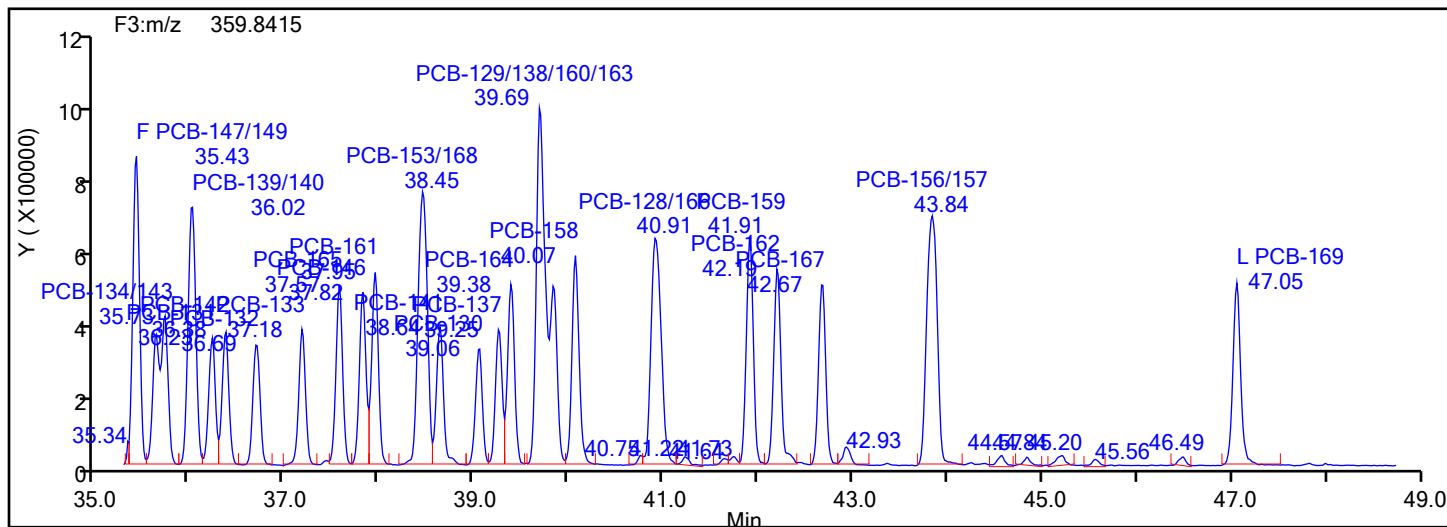


HxPCB F3 Standards

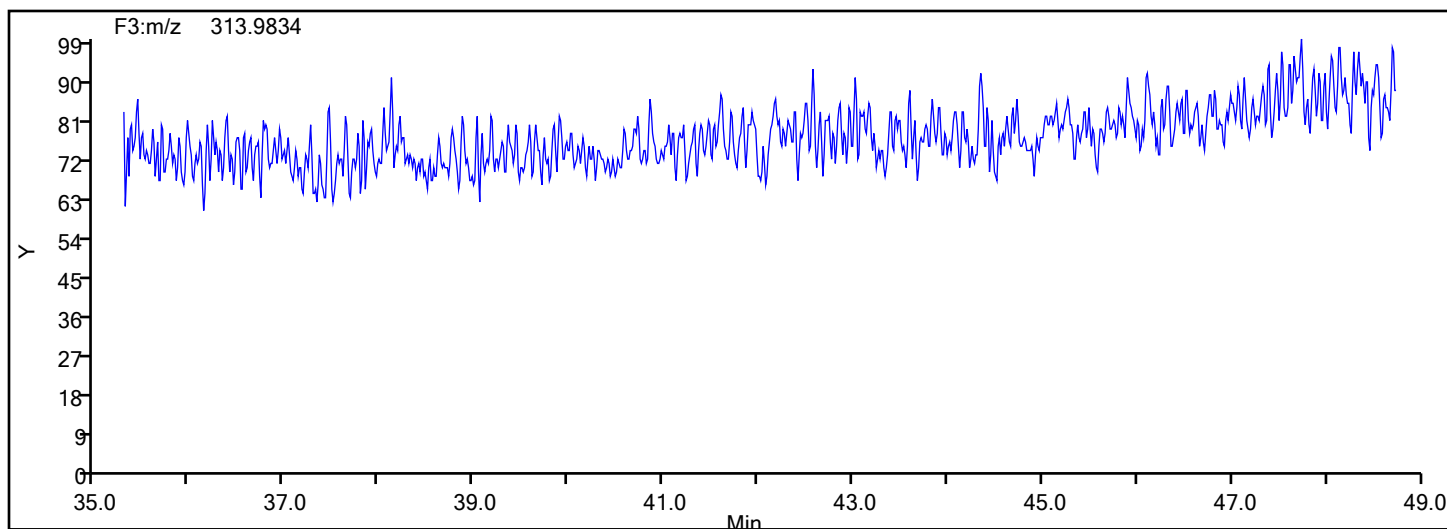


## Eurofins Knoxville

Data File:	\\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d		
Injection Date:	02-Jul-2024 17:01:00	Injection Vol:	1.0 ul
Instrument ID:	D2D	Operator ID:	Xcalibur_System
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL
Client ID:			
Worklist#:	88362	Sample Line#:	1
Column Type:	SPB-Octyl	Column Dia:	0.25 mm
HxPCB F3			



## HxPCB F3 Lock Mass





## Eurofins Knoxville

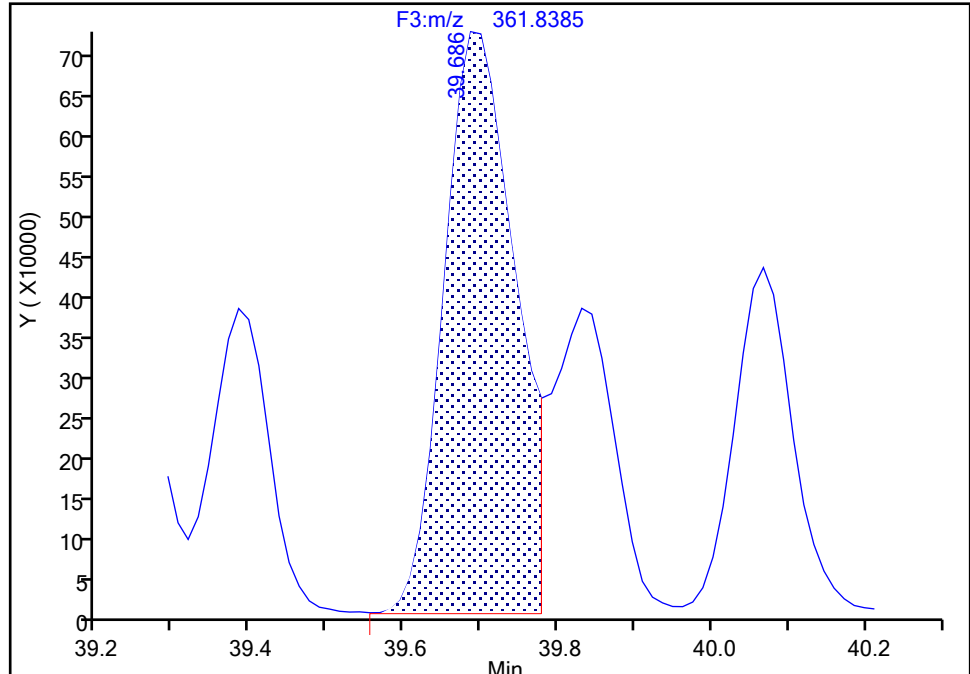
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

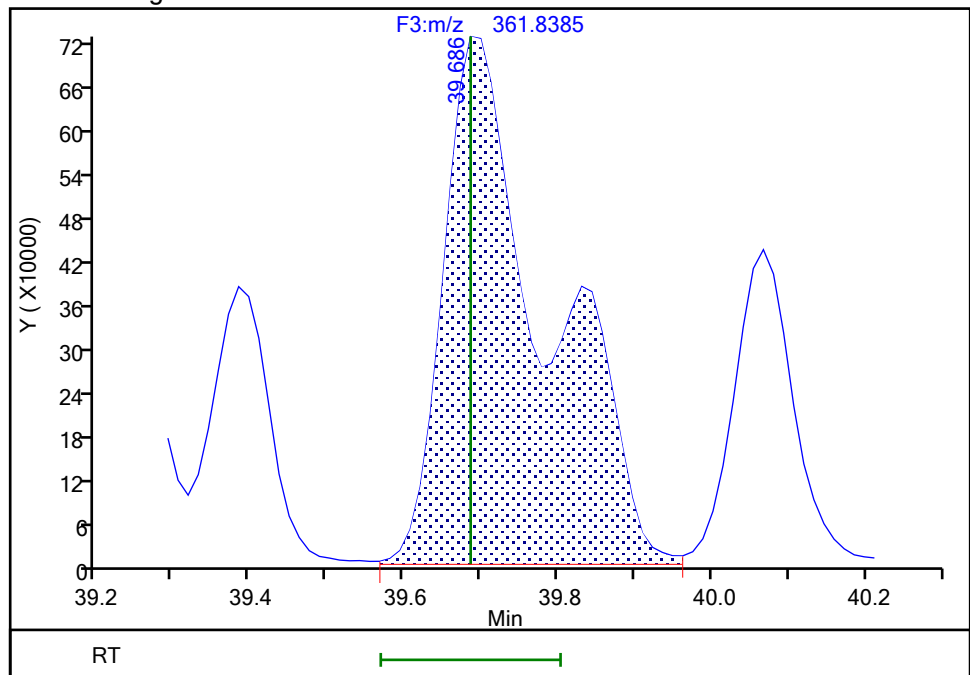
RT: 39.69  
Area: 4639292  
Amount: 133.1498  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.69  
Area: 6802377  
Amount: 189.2136  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:13:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

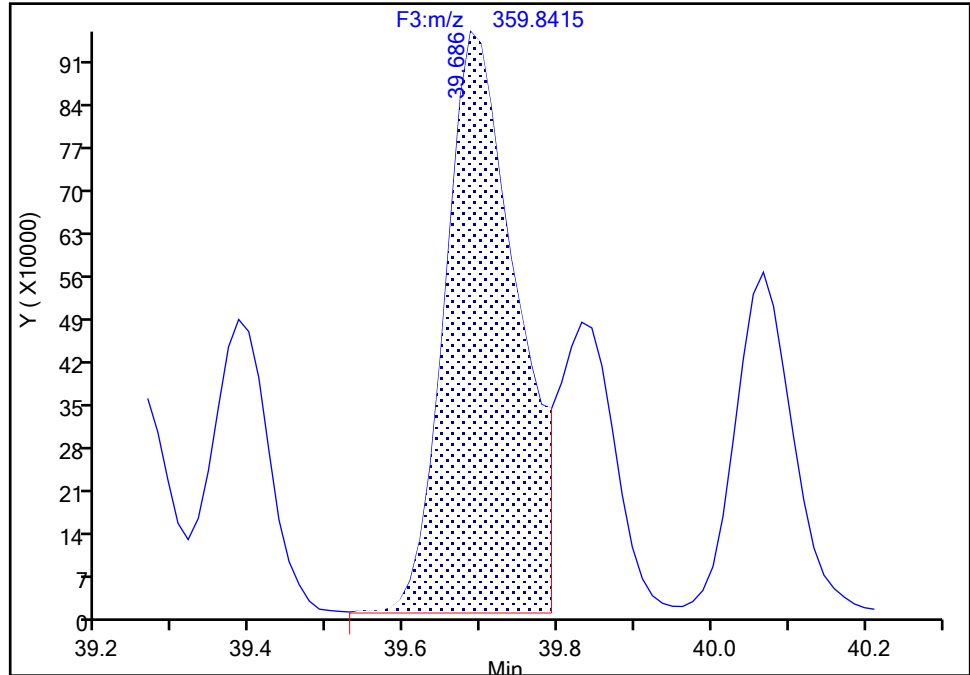
Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d  
Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

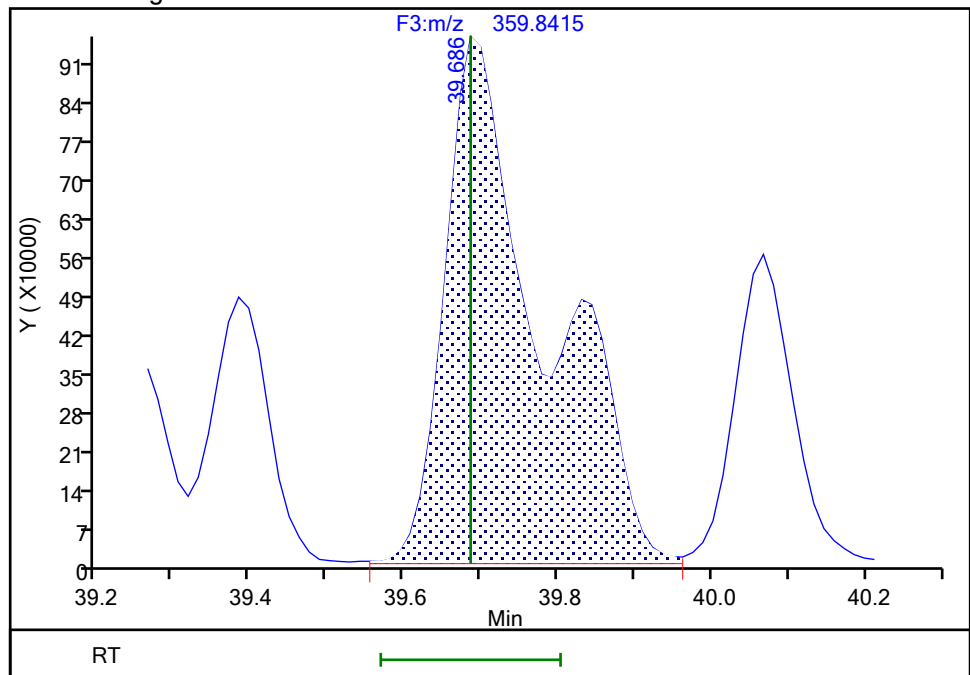
RT: 39.69  
Area: 6120948  
Amount: 133.1498  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.69  
Area: 8488555  
Amount: 189.2136  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:13:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 3124 of 3373

BASFHWC-F002024-05248  
9/6/2024  
3:53:39 PM

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

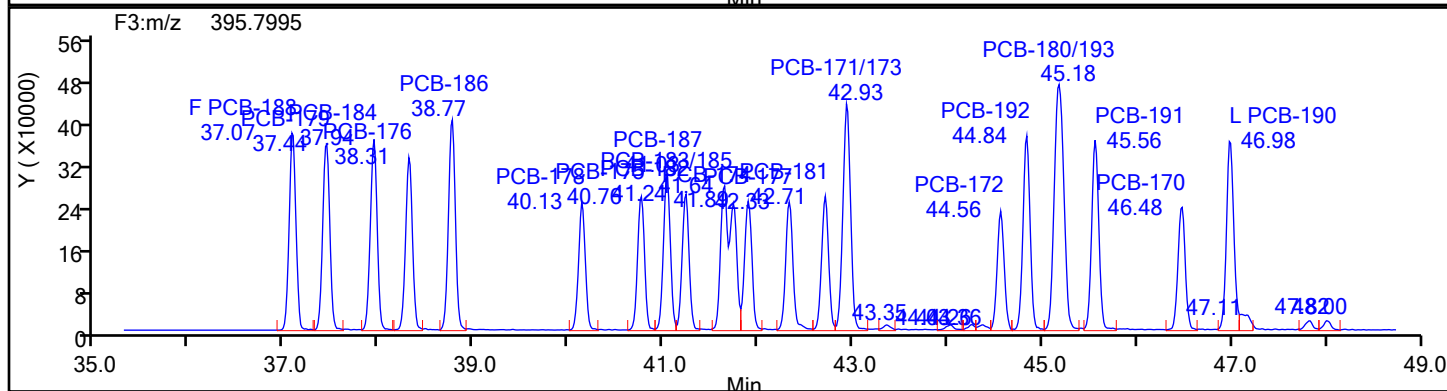
Limit Group: HR - EPA 23 PCB ICAL

Worklist#: 88362

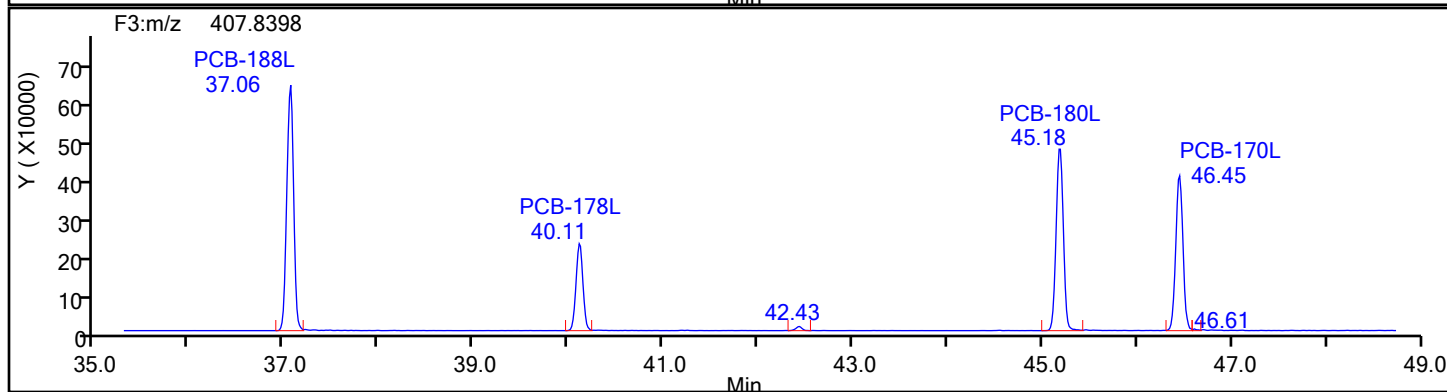
Sample Line#: 1

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

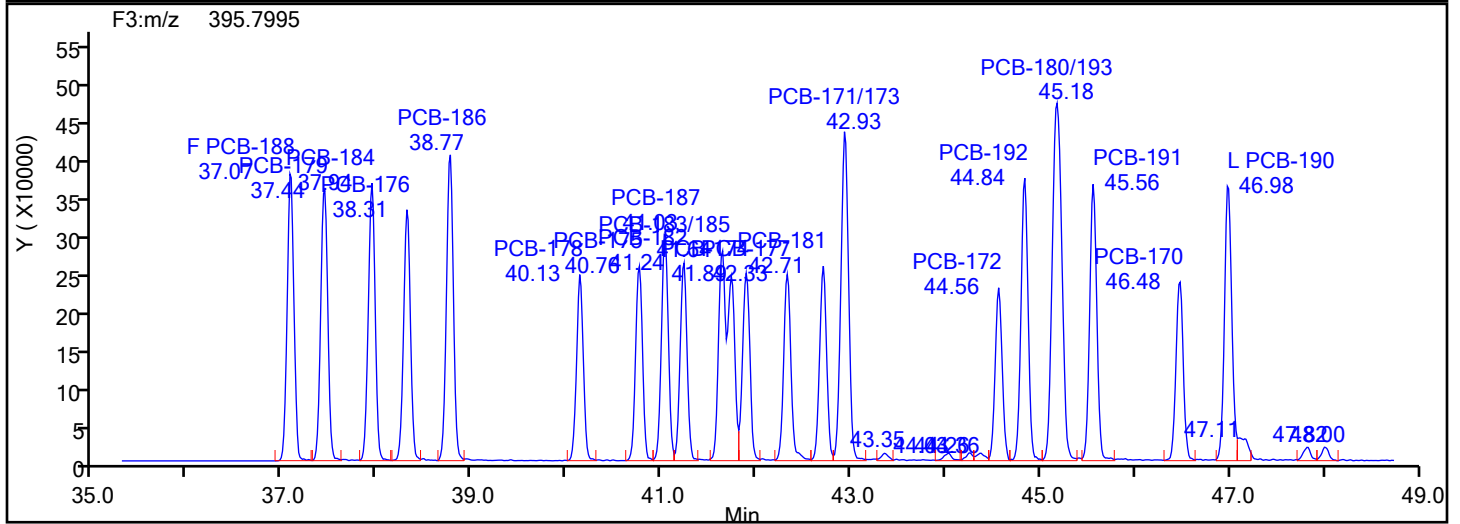
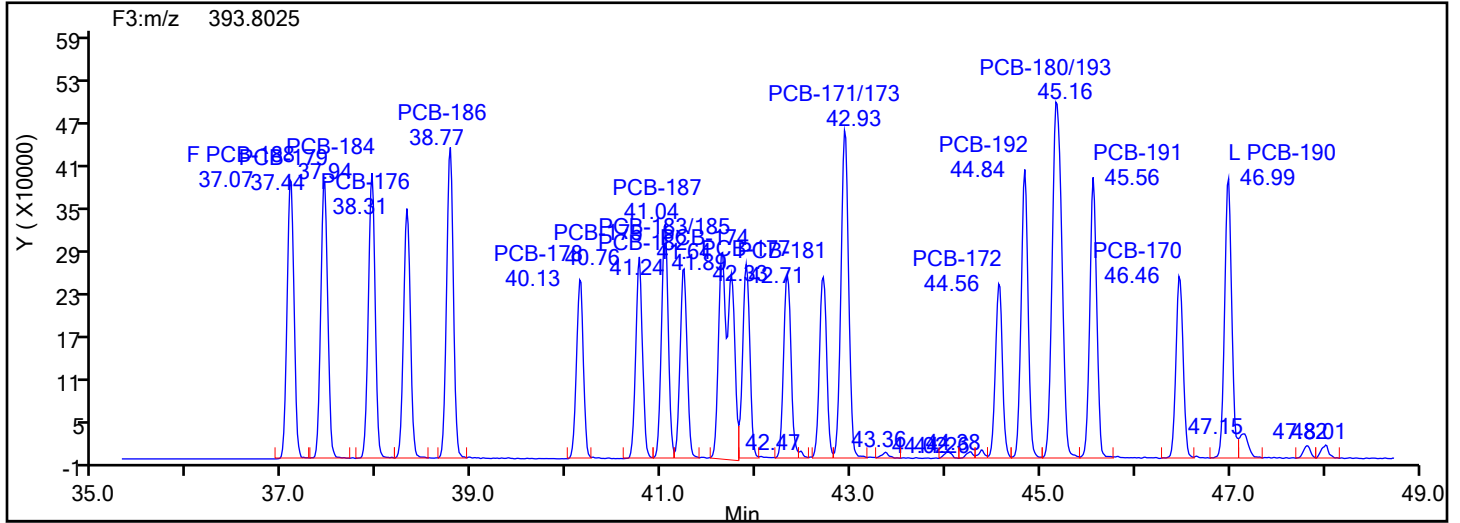
Worklist#: 88362

Sample Line#: 1

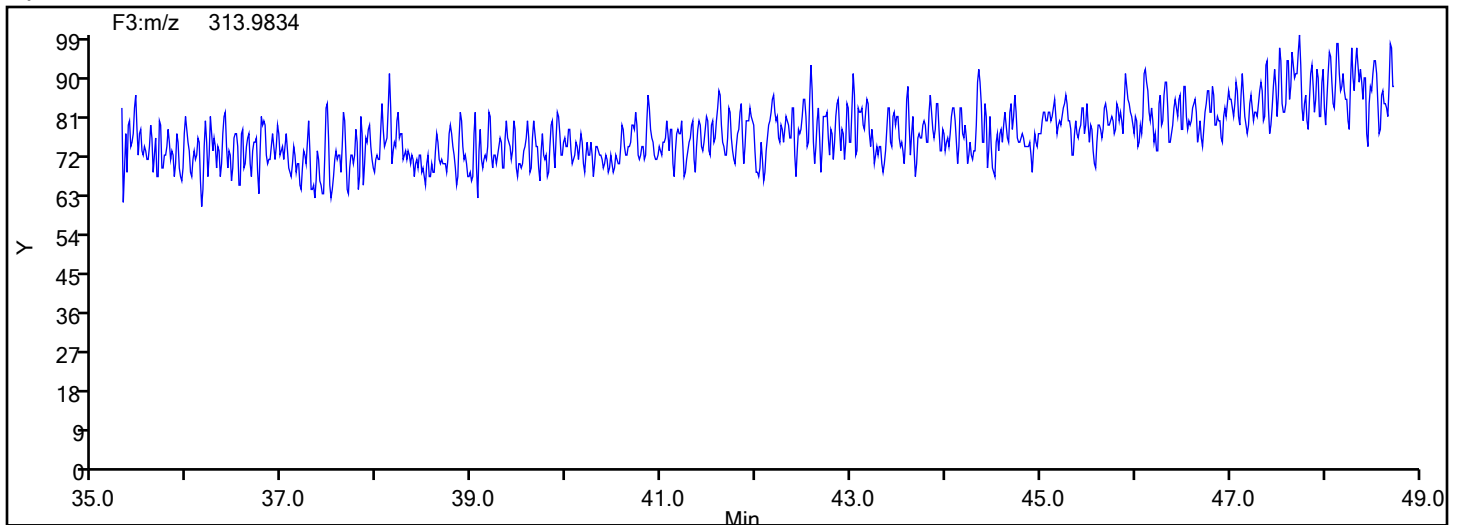
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Instrument ID: D2D

Lims ID: WDMCCV

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

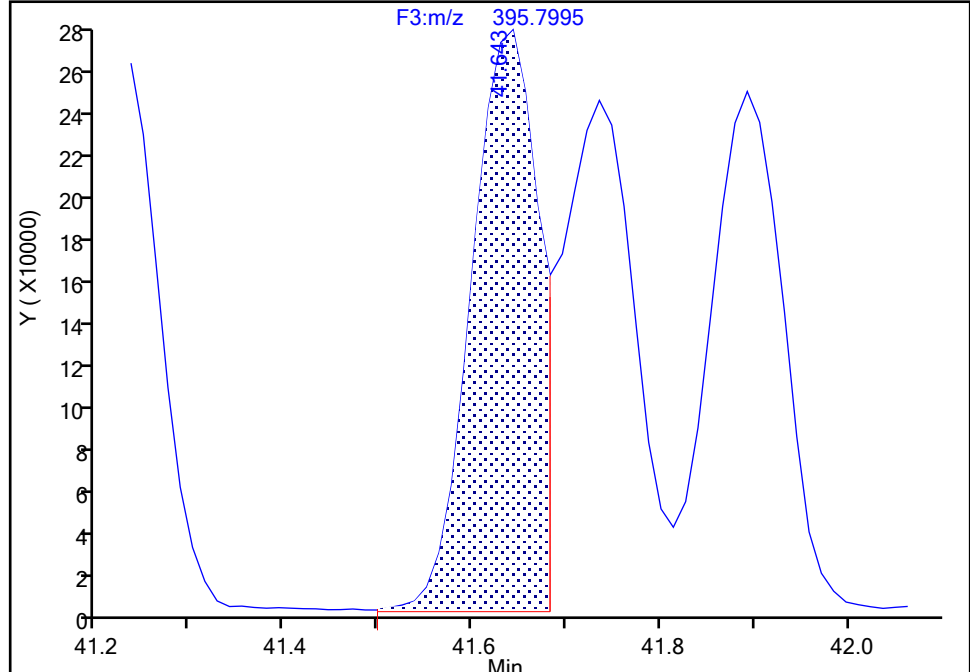
Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 2

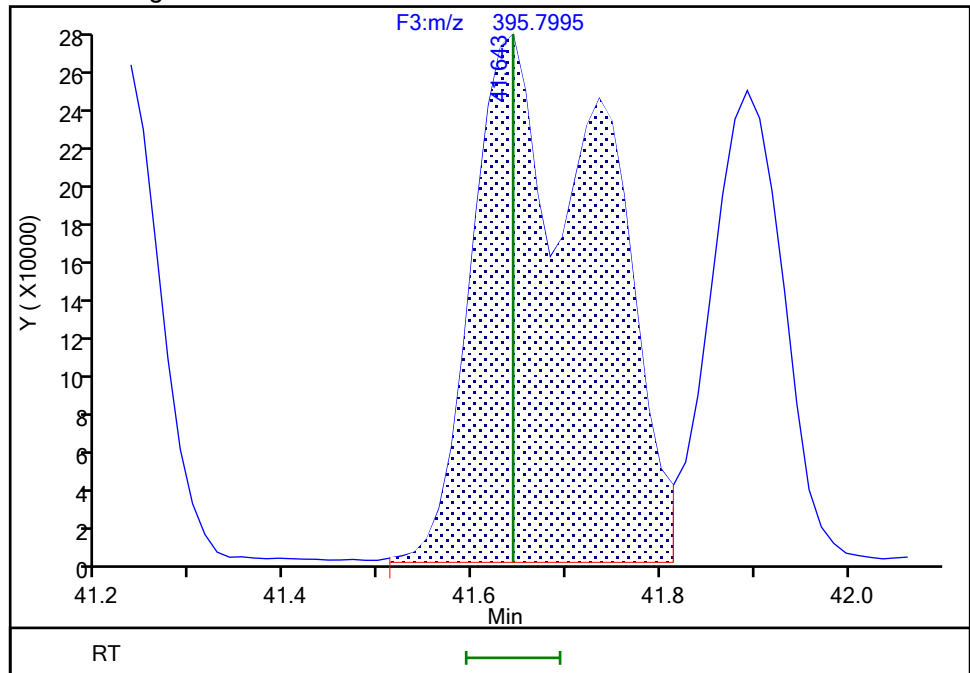
RT: 41.64  
Area: 1360473  
Amount: 50.466416  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.64  
Area: 2640032  
Amount: 98.345807  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:13:33 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

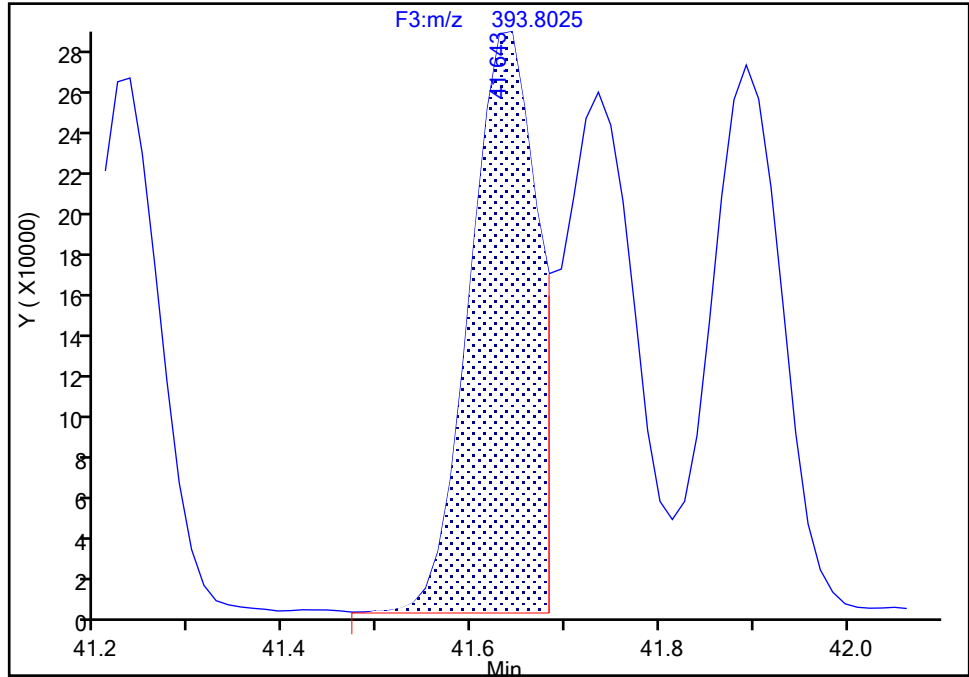
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Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 1

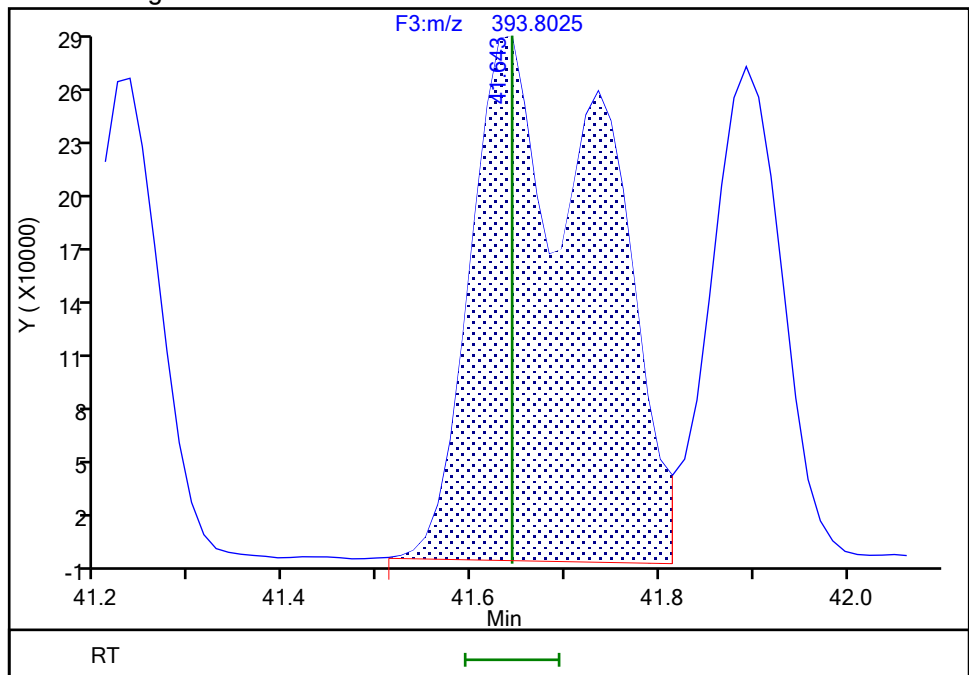
RT: 41.64  
Area: 1420693  
Amount: 50.466416  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.64  
Area: 2779731  
Amount: 98.345807  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:14:05 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

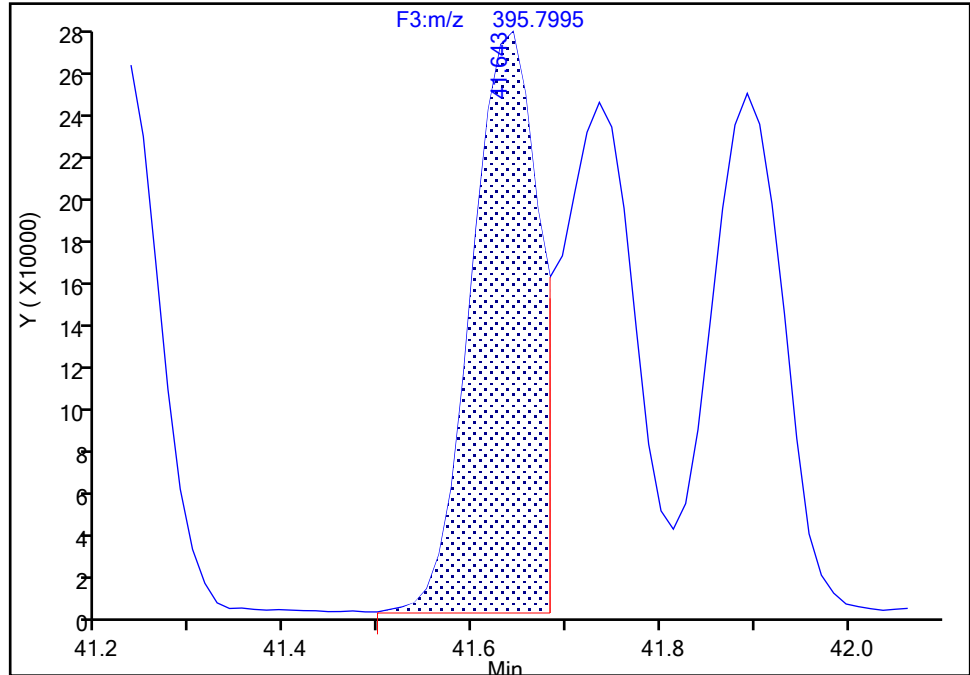
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Injection Date: 02-Jul-2024 17:01:00 Instrument ID: D2D  
Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-183/185, CAS: STL02297

Signal: 2

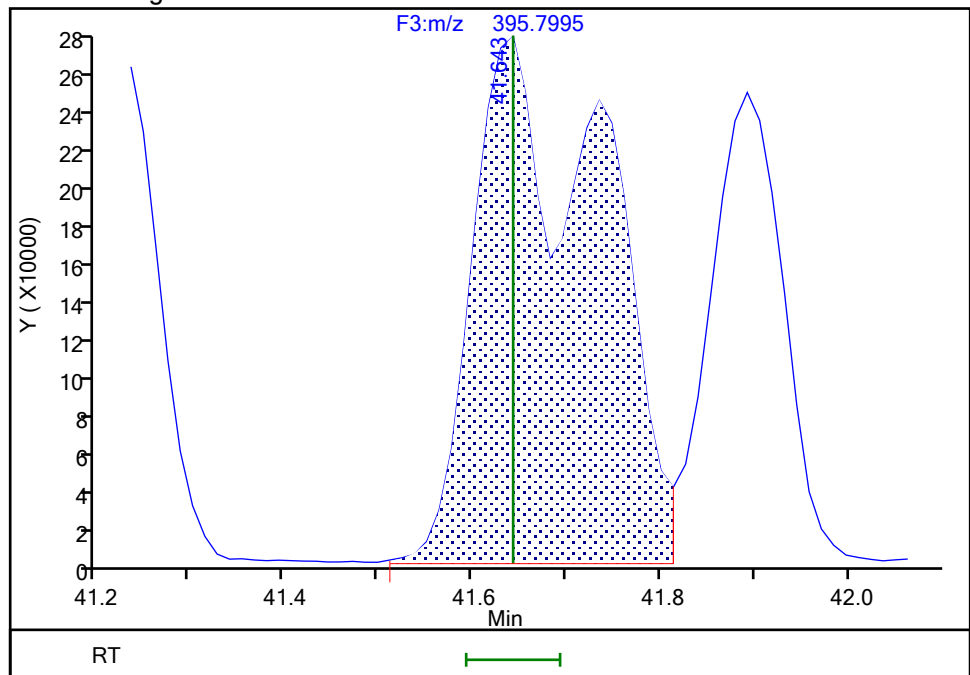
RT: 41.64  
Area: 1360473  
Amount: 50.466416  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.64  
Area: 2640032  
Amount: 98.345807  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: V4XA, 02-Jul-2024 19:14:05 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

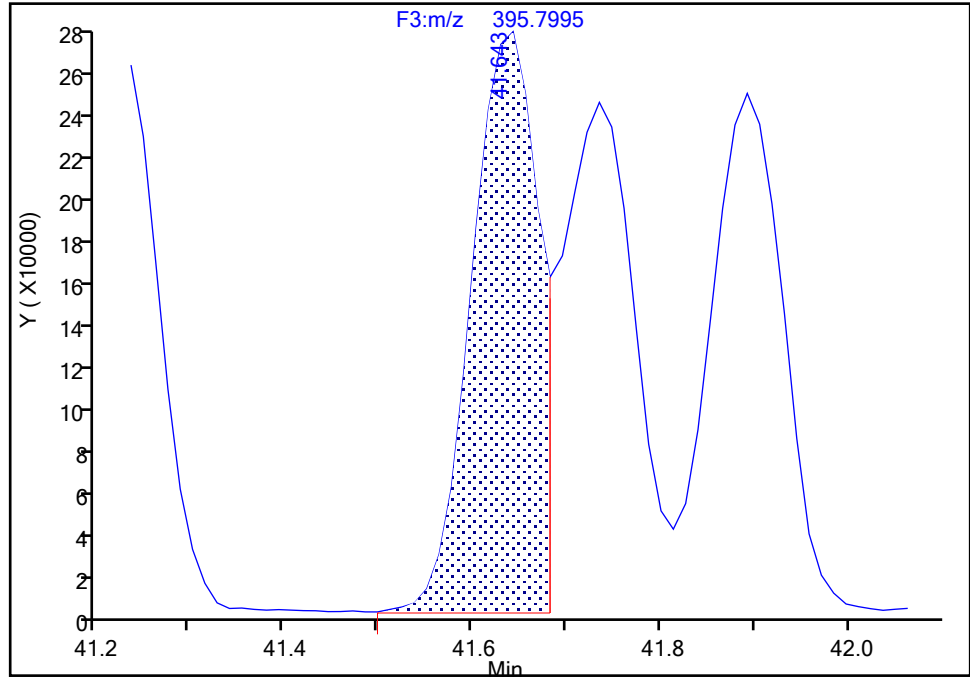
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Lims ID: WDMCCV  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

**PCB-183/185, CAS: STL02297**

Signal: 3

RT: 41.64  
Area: 2781166  
Amount: 50.466416  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 41.64  
Area: 5419763  
Amount: 98.345807  
Amount Units: pg/ul

Reviewer: V4XA, 02-Jul-2024 19:14:05 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d		
Injection Date:	02-Jul-2024 17:01:00	Instrument ID:	D2D
Lims ID:	WDMCCV		
Client ID:			
Operator ID:	Xcalibur_System	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	PCBs_D2D	Limit Group:	HR - EPA_23
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.1

```

ALS Bottle#:      0          Worklist Smp#:      1
Dil. Factor:      1.0000
Limit Group:      HR - EPA_23 PCB ICAL
Detector          F3(35.64 :49.10 )

```

Signal: 1

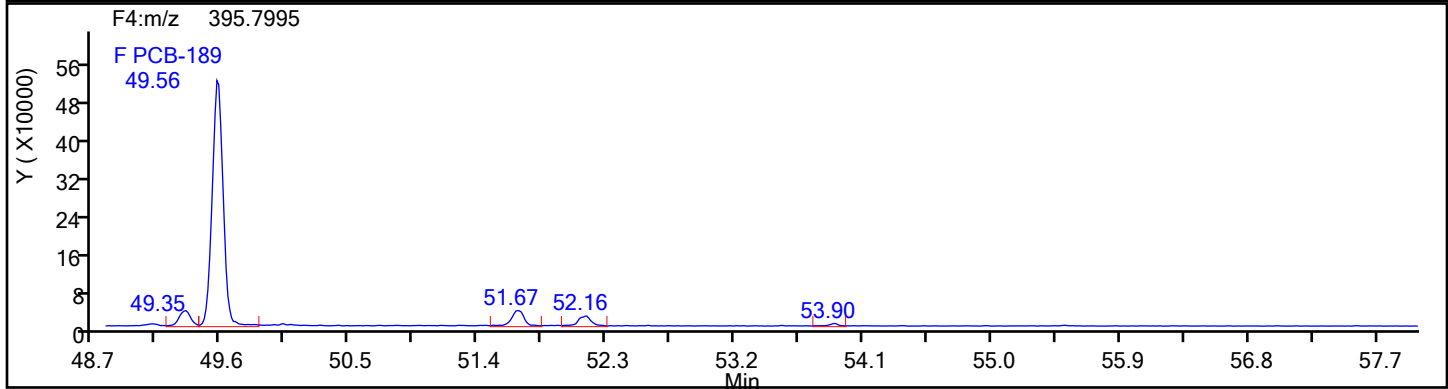
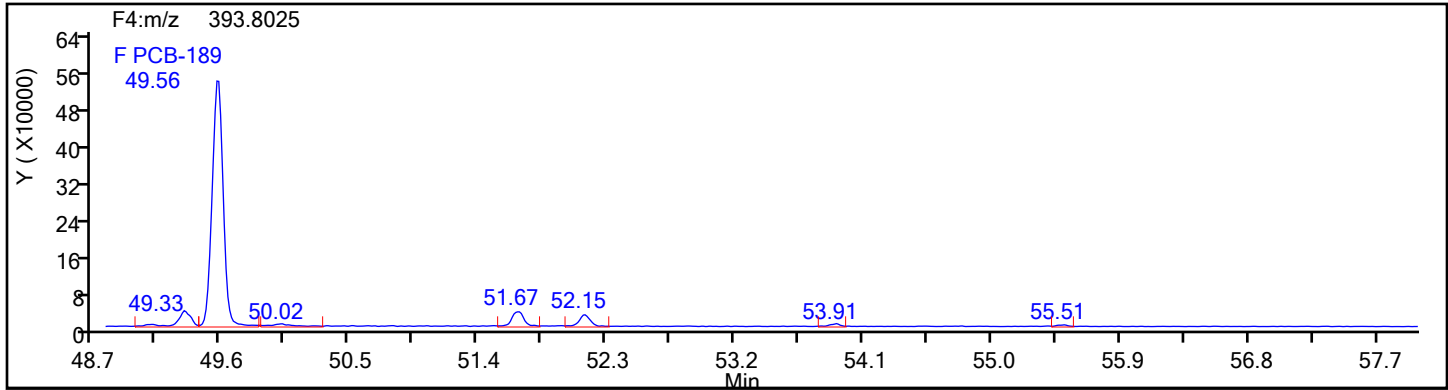
RT: 41.64  
Area: 1420693  
Amount: 50.466416  
Amount Units: pg/ul

Chromatogram showing Y (X10000) vs Min. A major peak is labeled F3:m/z 393.8025 and is shaded with a blue dotted pattern. The peak is centered around 41.643 minutes.

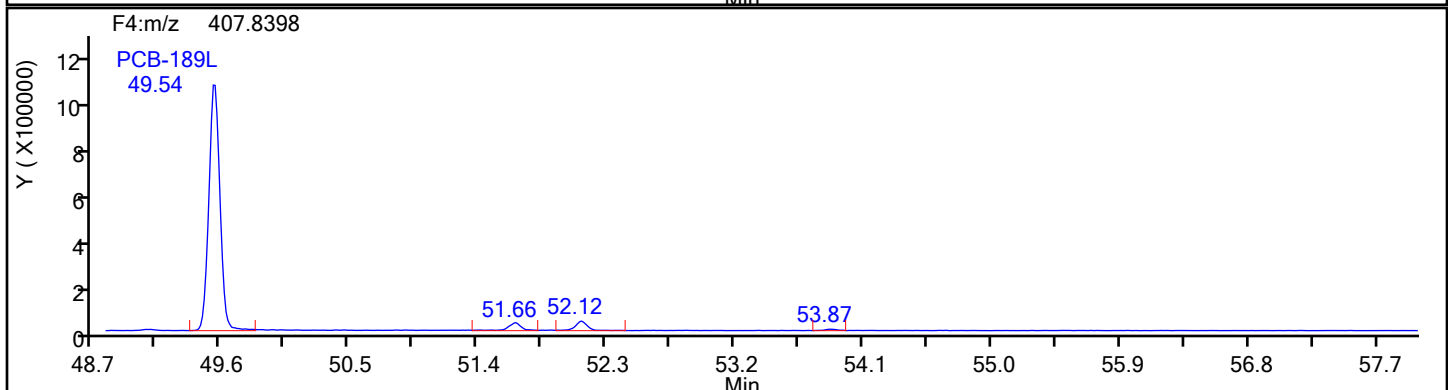
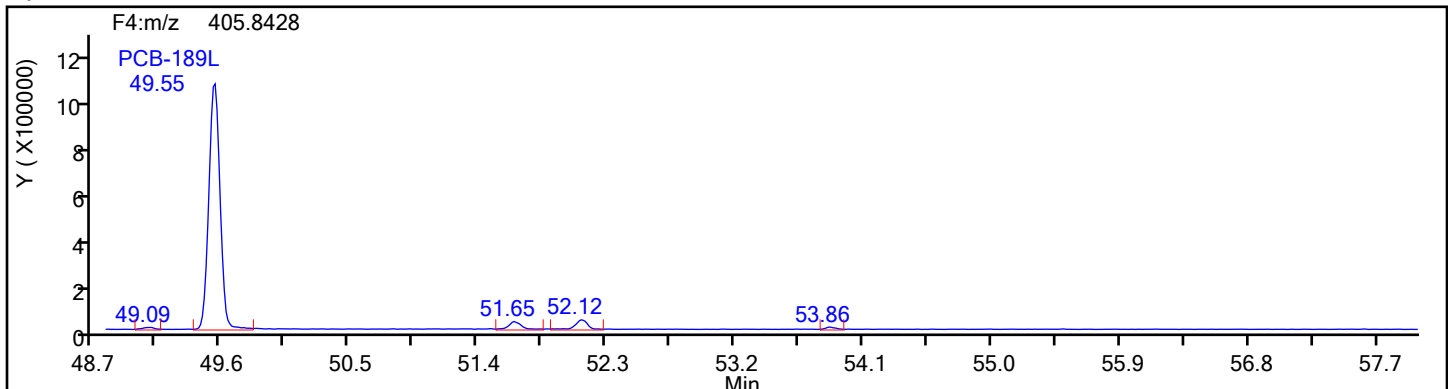
RT: 41.64  
Area: 2779731  
Amount: 98.345807  
Amount Units: pg/ul

## Eurofins Knoxville

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Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F4



## HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

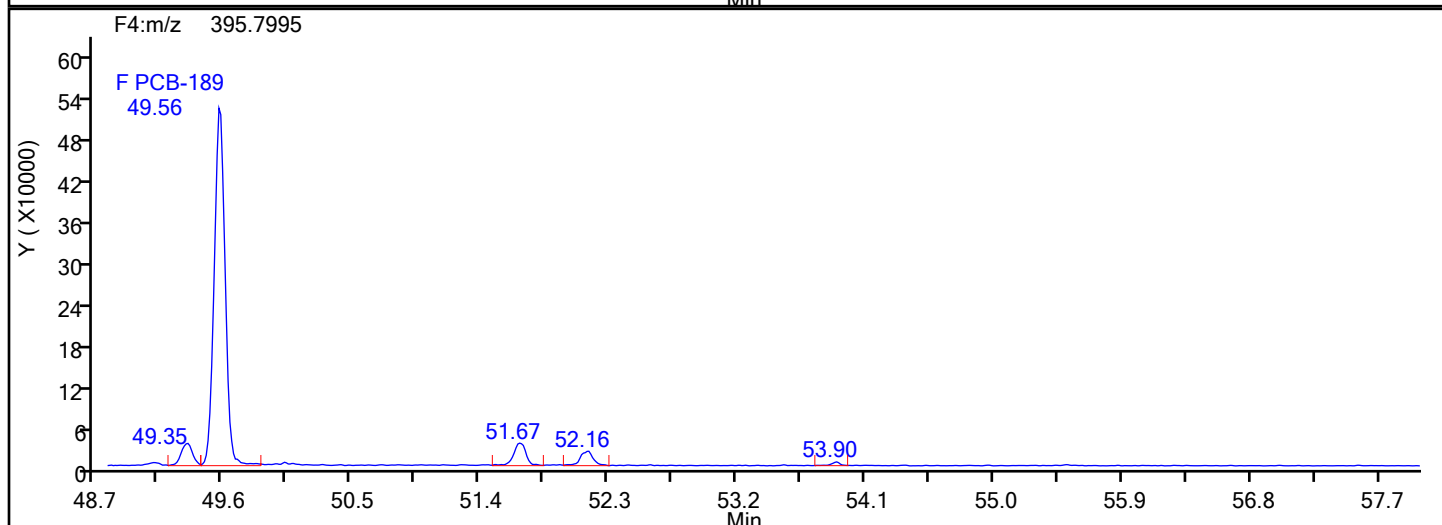
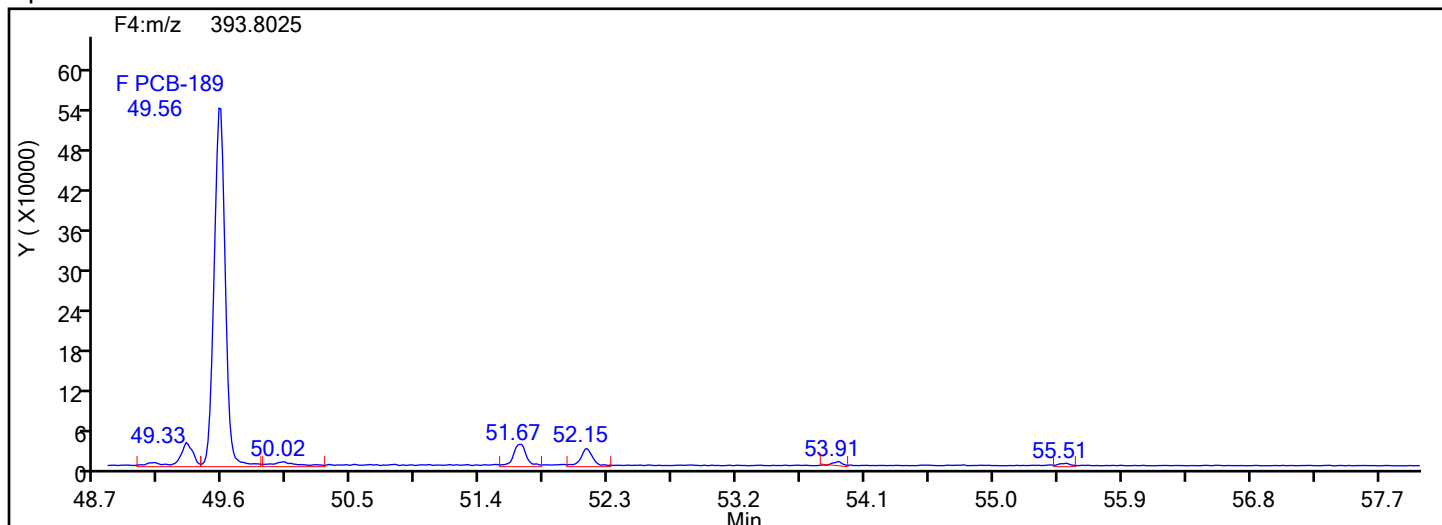
Worklist#: 88362

Sample Line#: 1

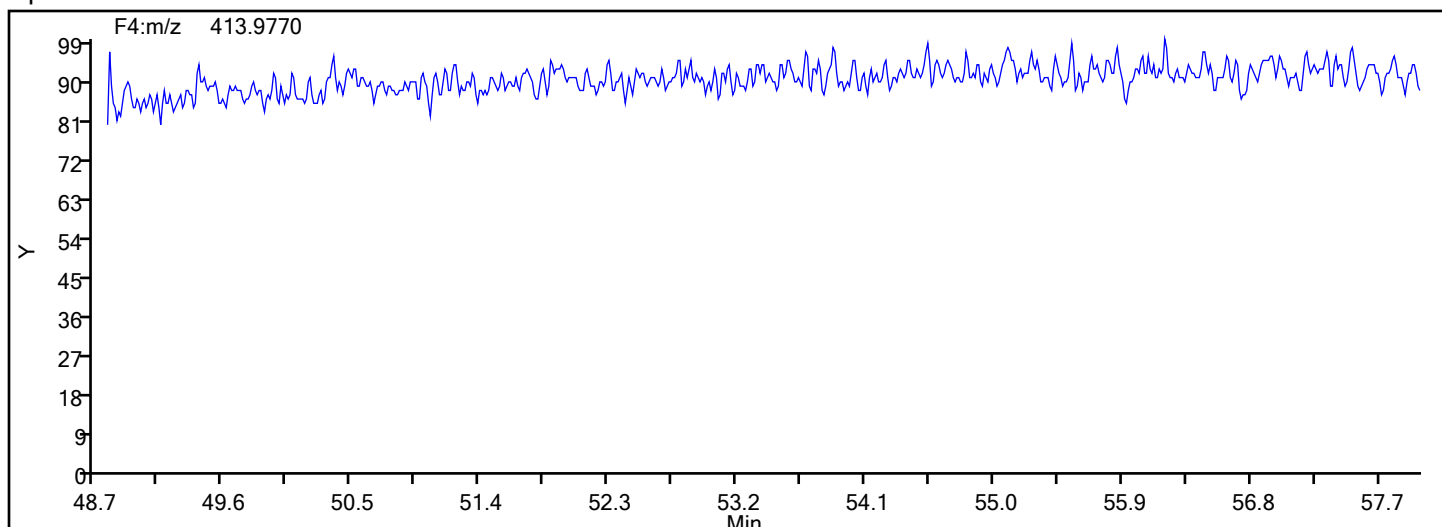
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4

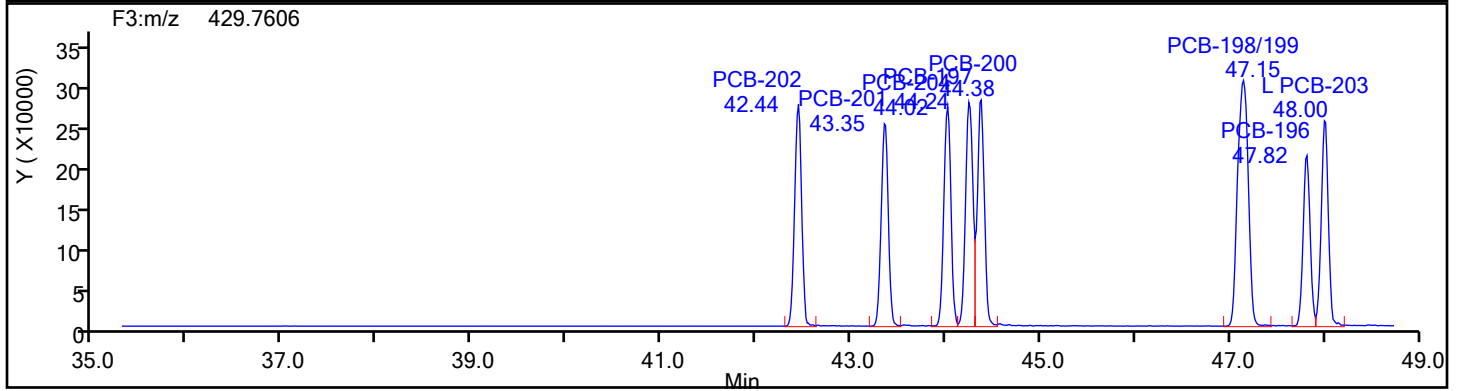
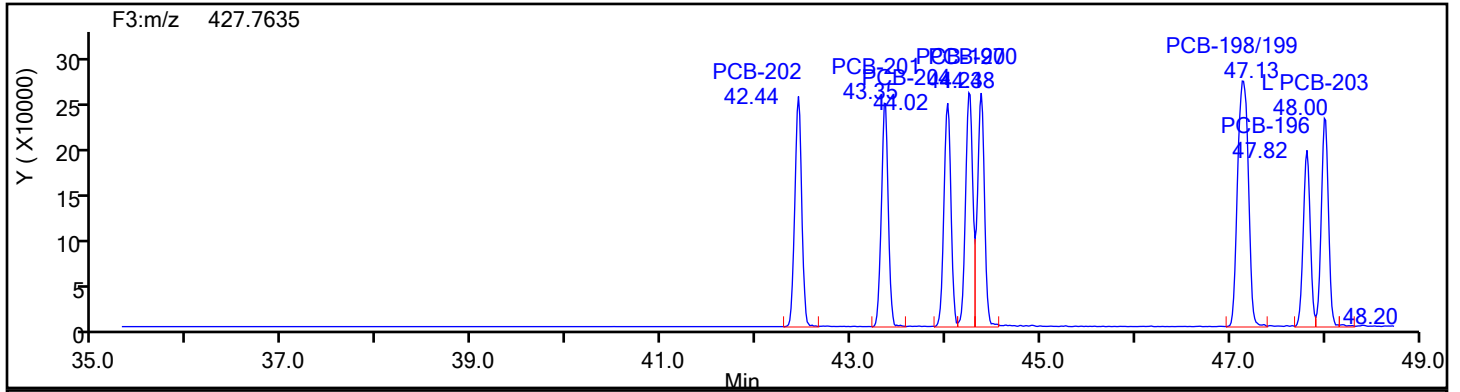


HpPCB F4 Lock Mass

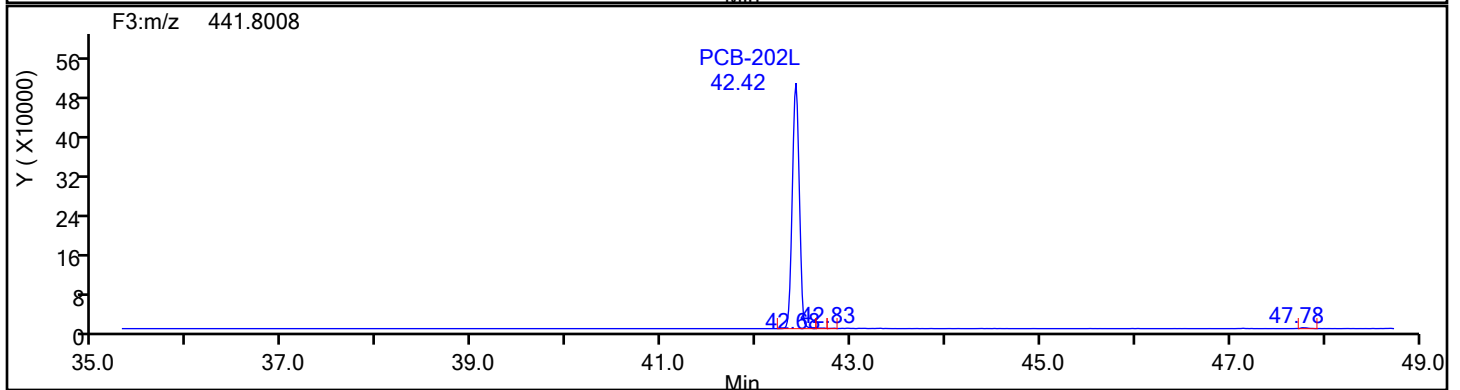
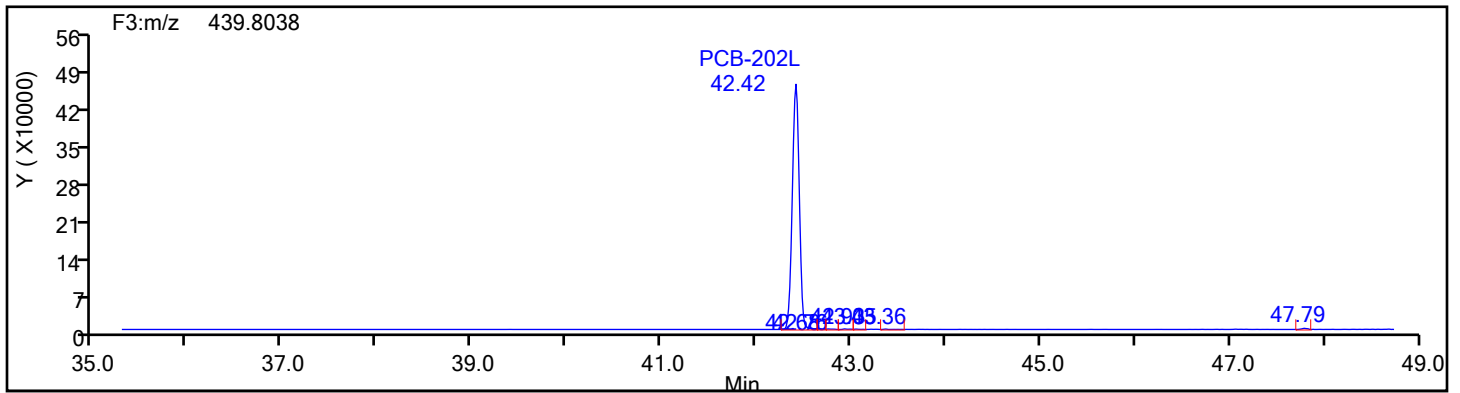


## Eurofins Knoxville

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Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

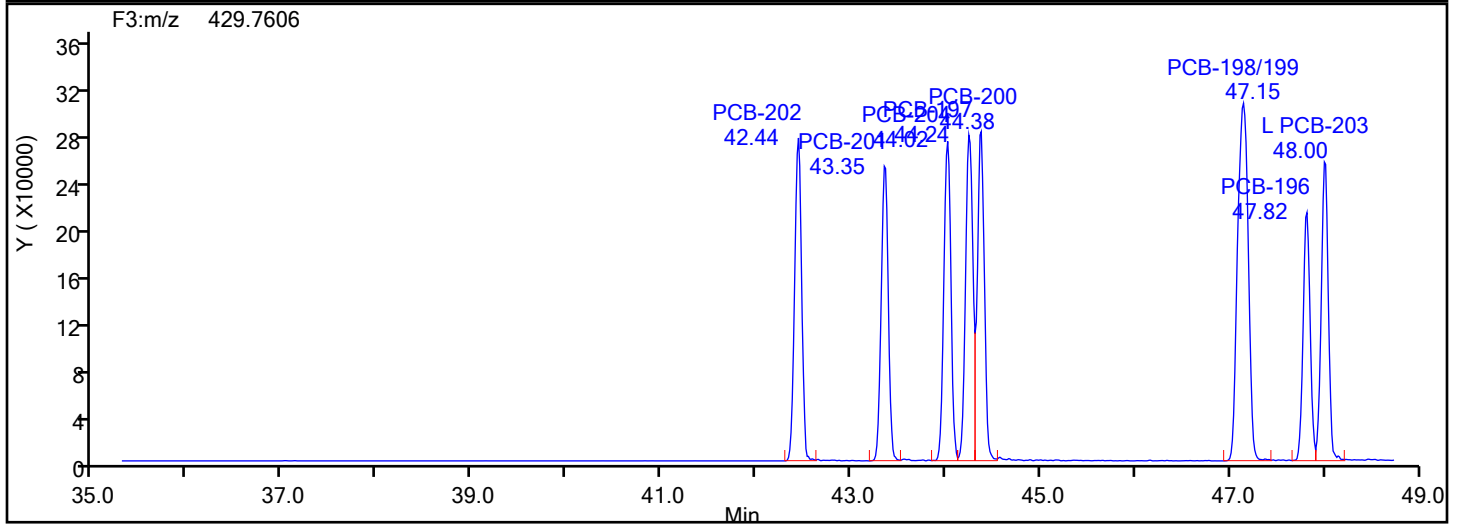
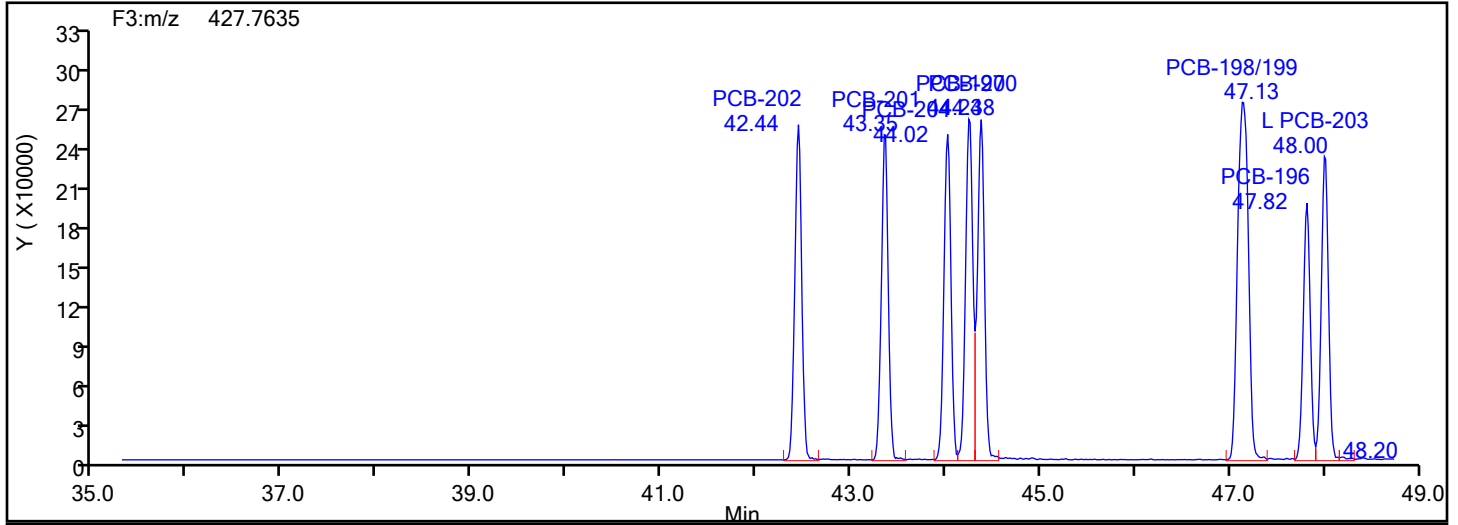


## OcPCB F3 Standards

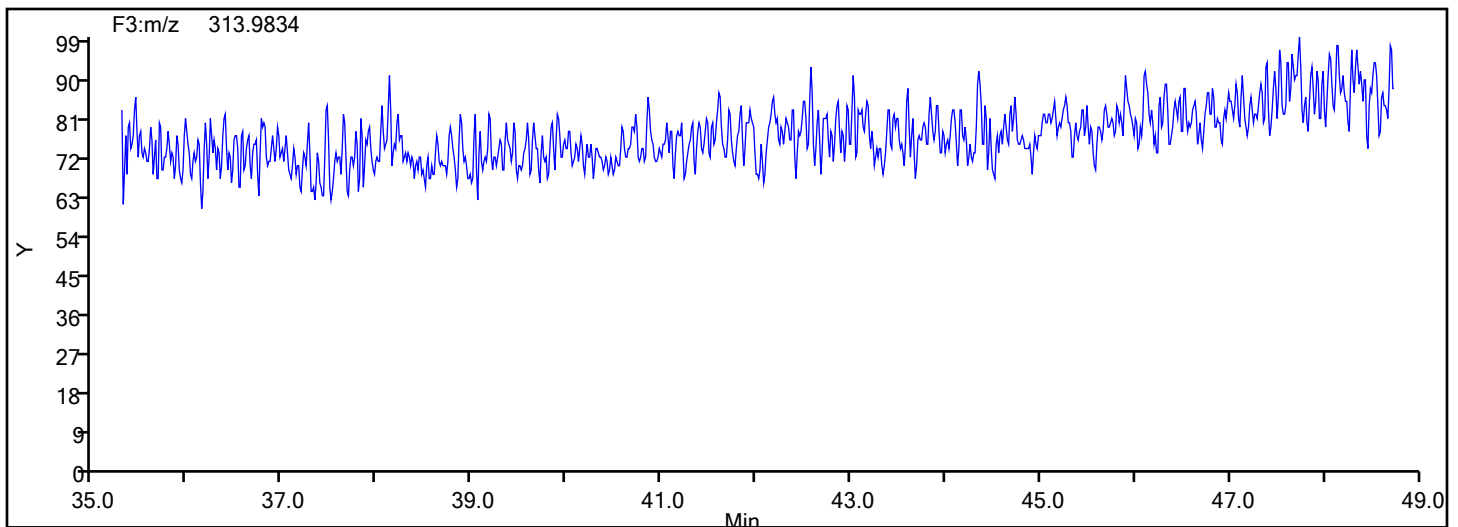


## Eurofins Knoxville

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Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F3

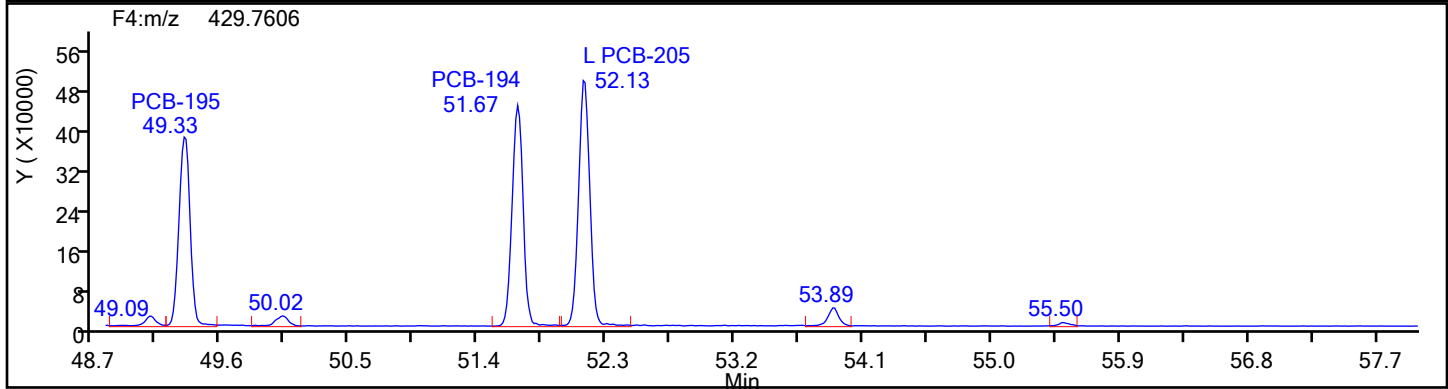
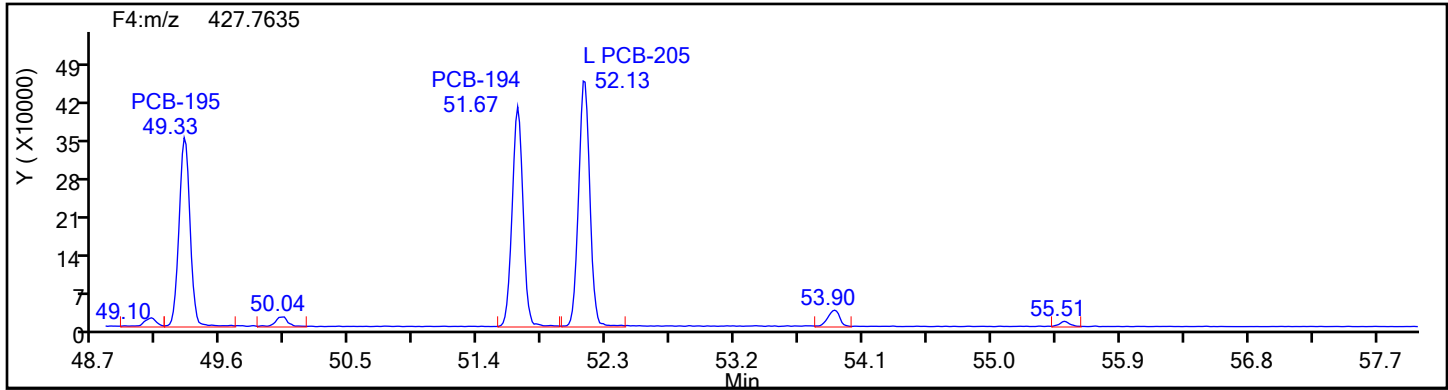


## OcPCB F3 Lock Mass

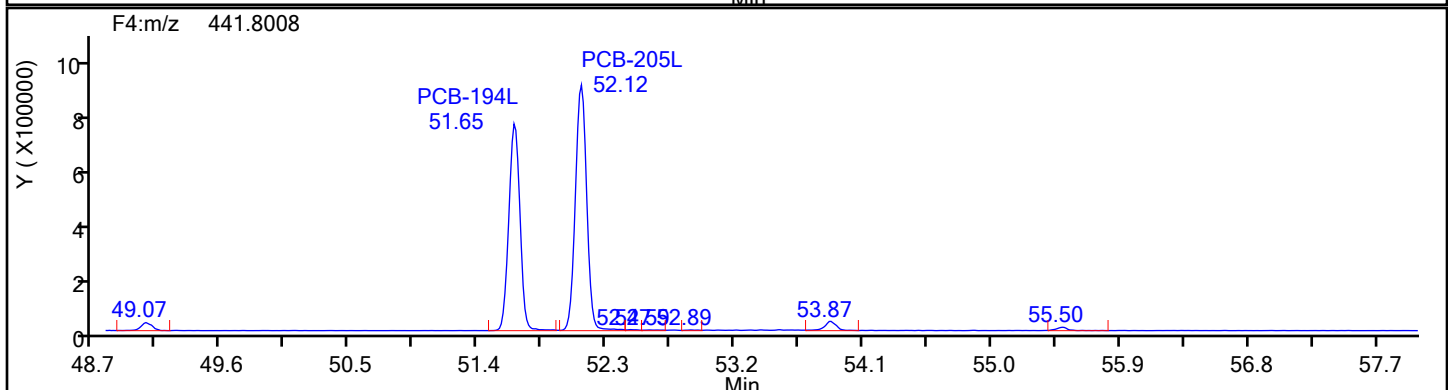
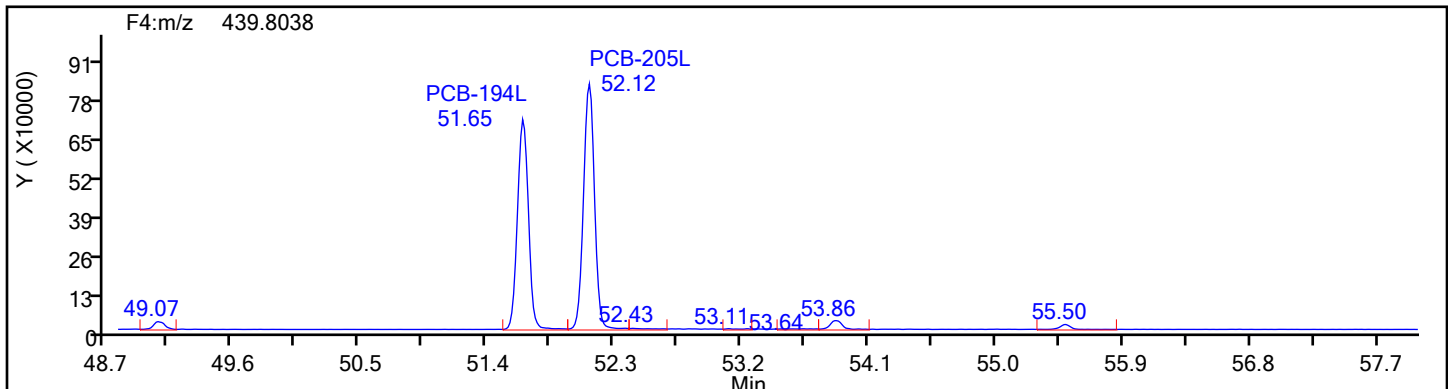


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
OcPCB F4



## OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

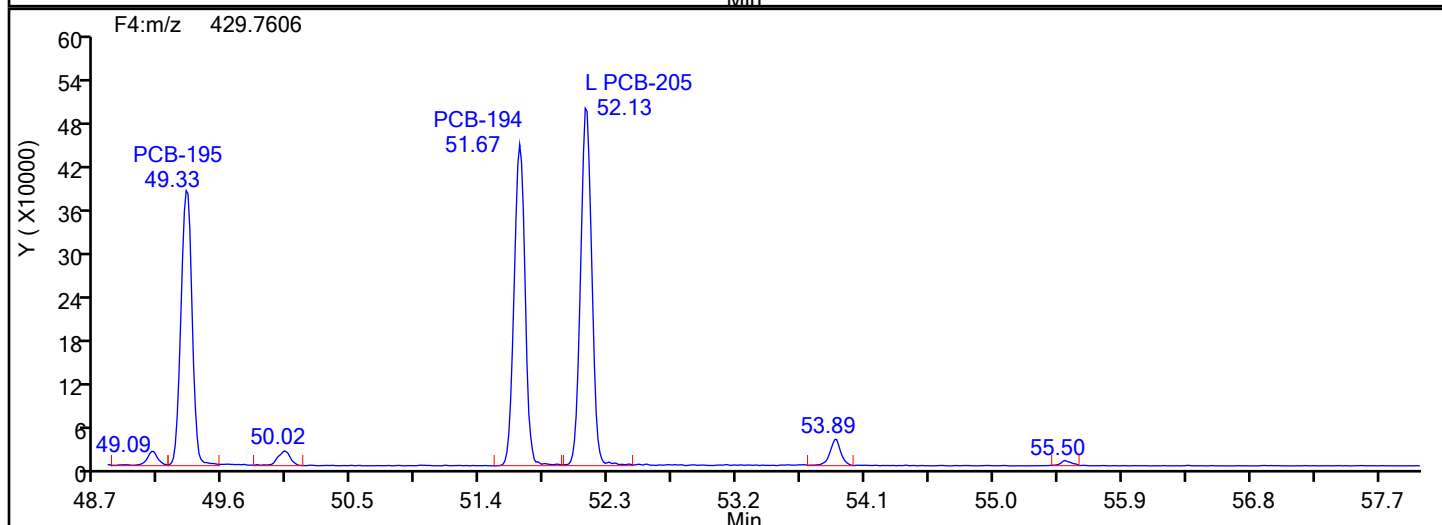
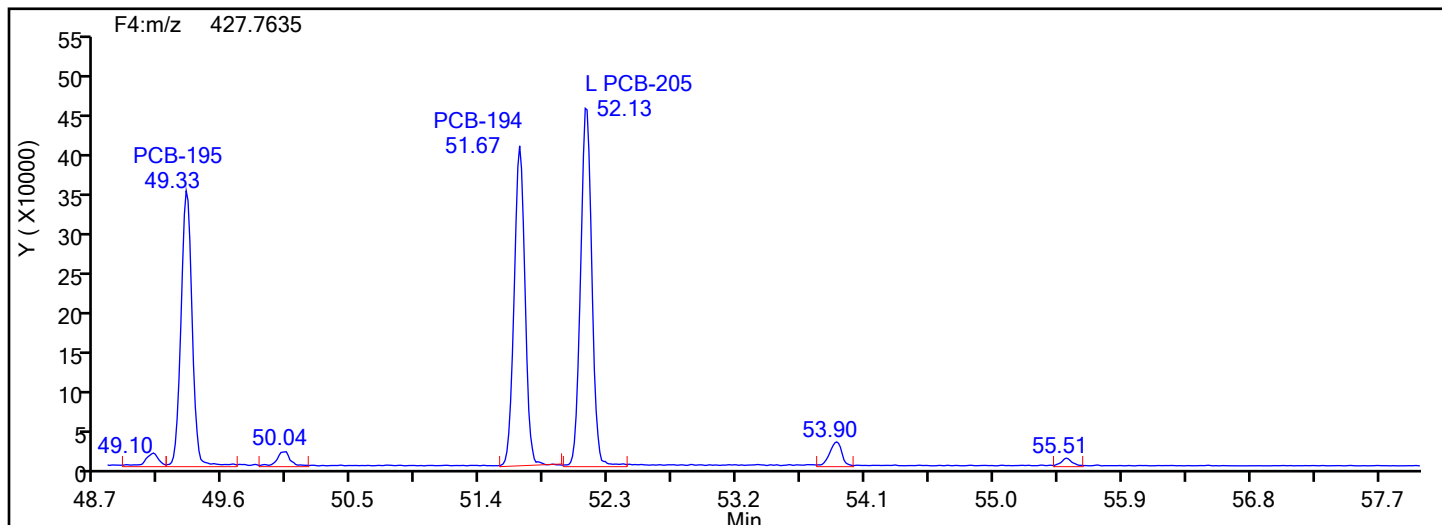
Worklist#: 88362

Sample Line#: 1

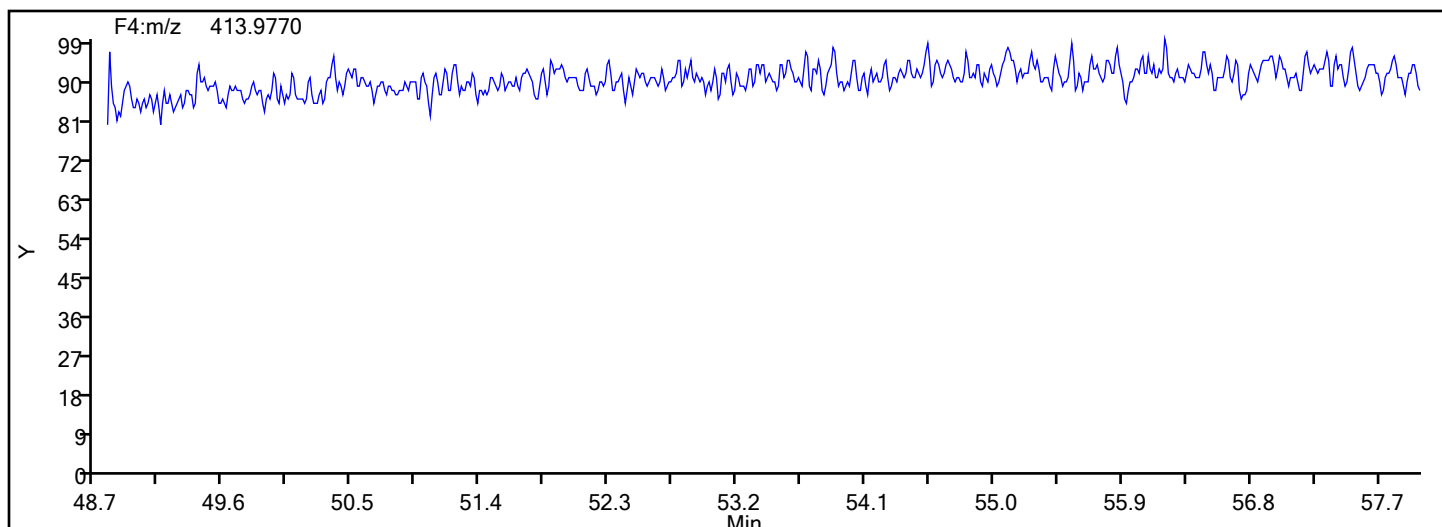
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4

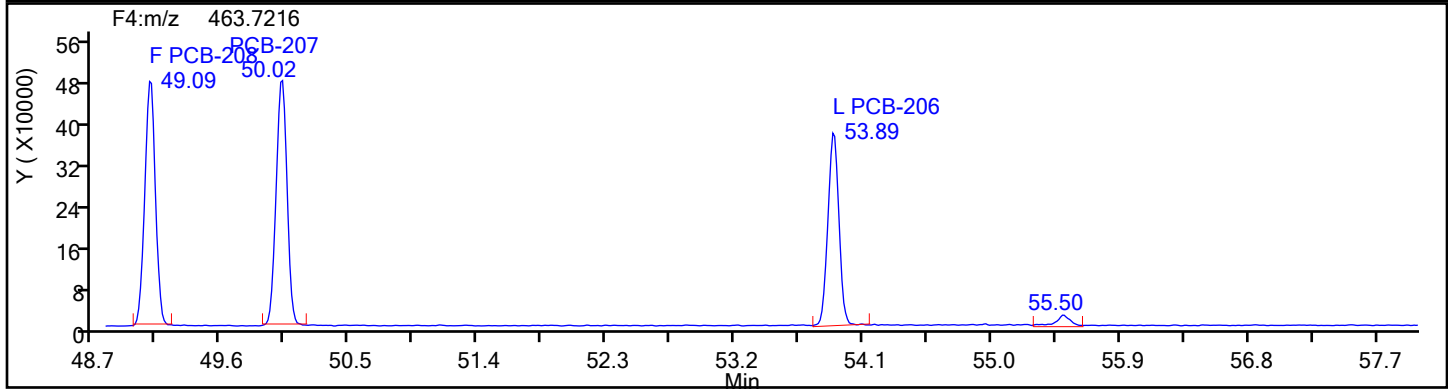
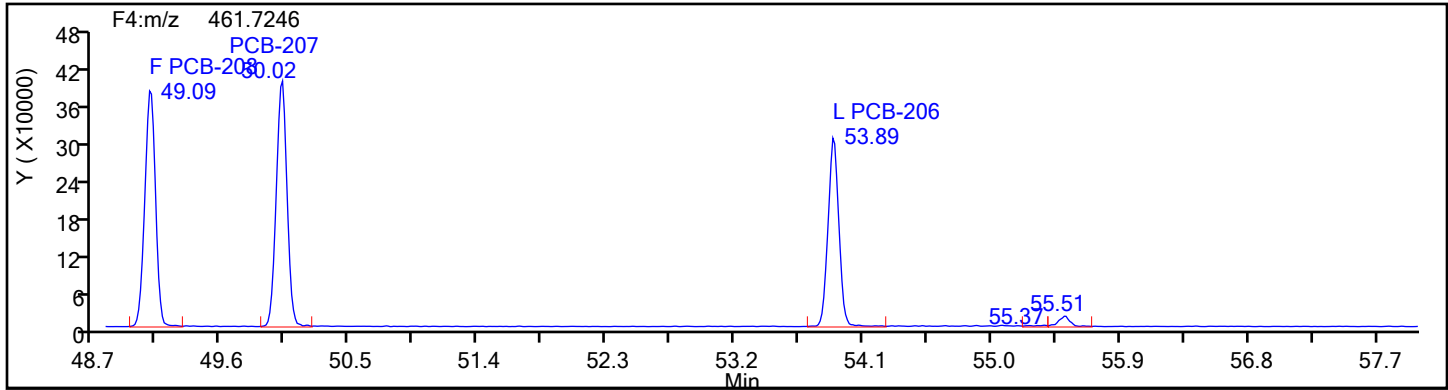


## OcPCB F4 Lock Mass

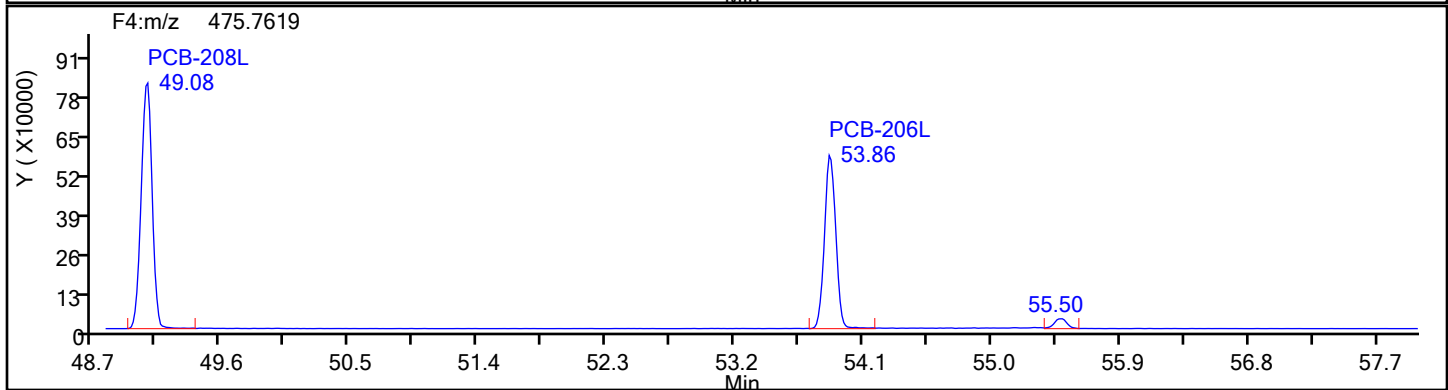
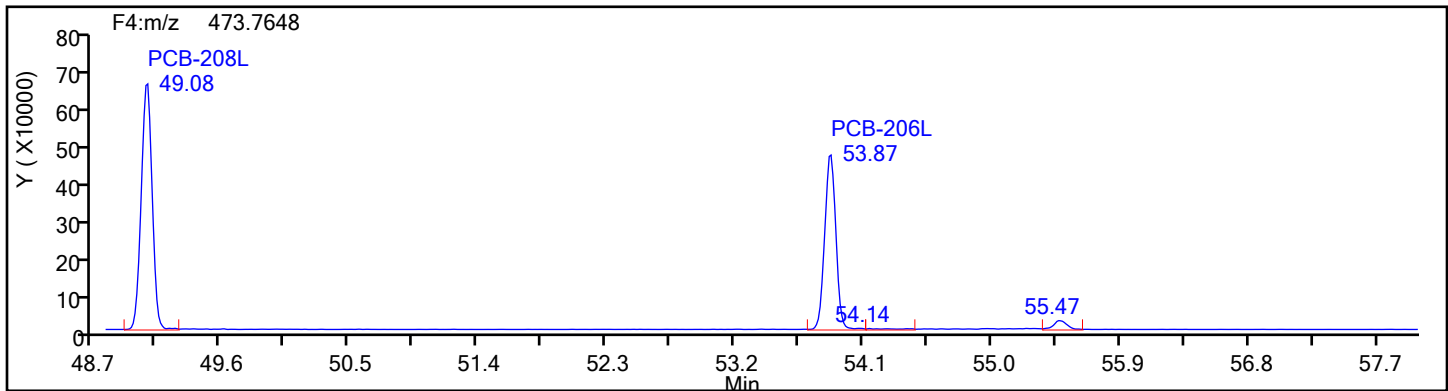


## Eurofins Knoxville

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Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4



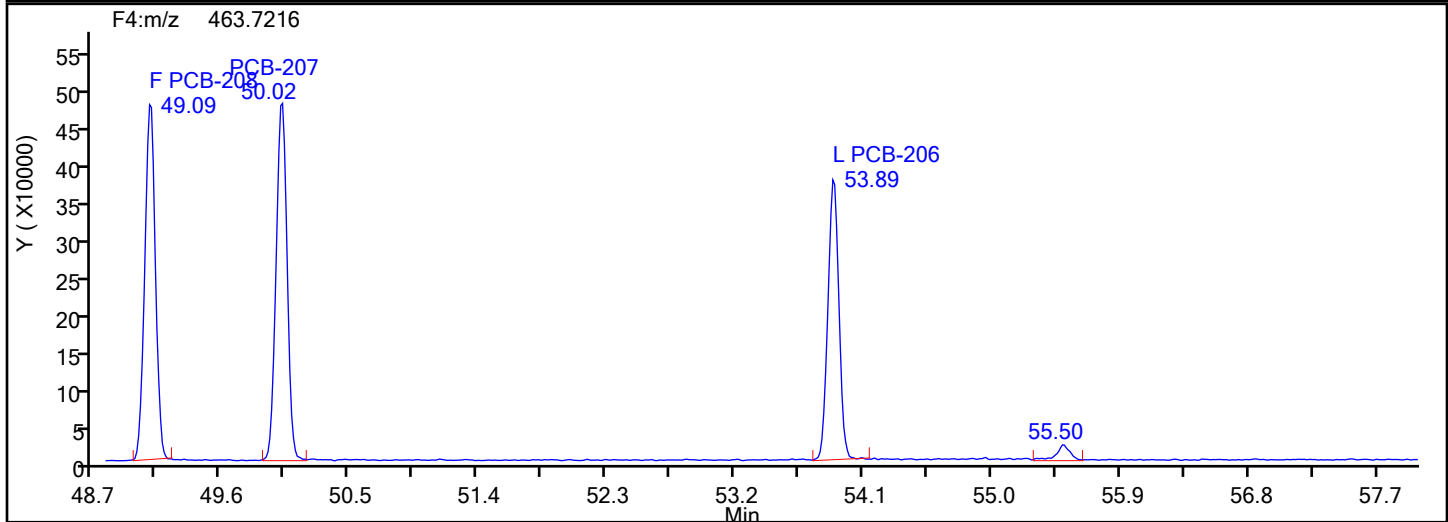
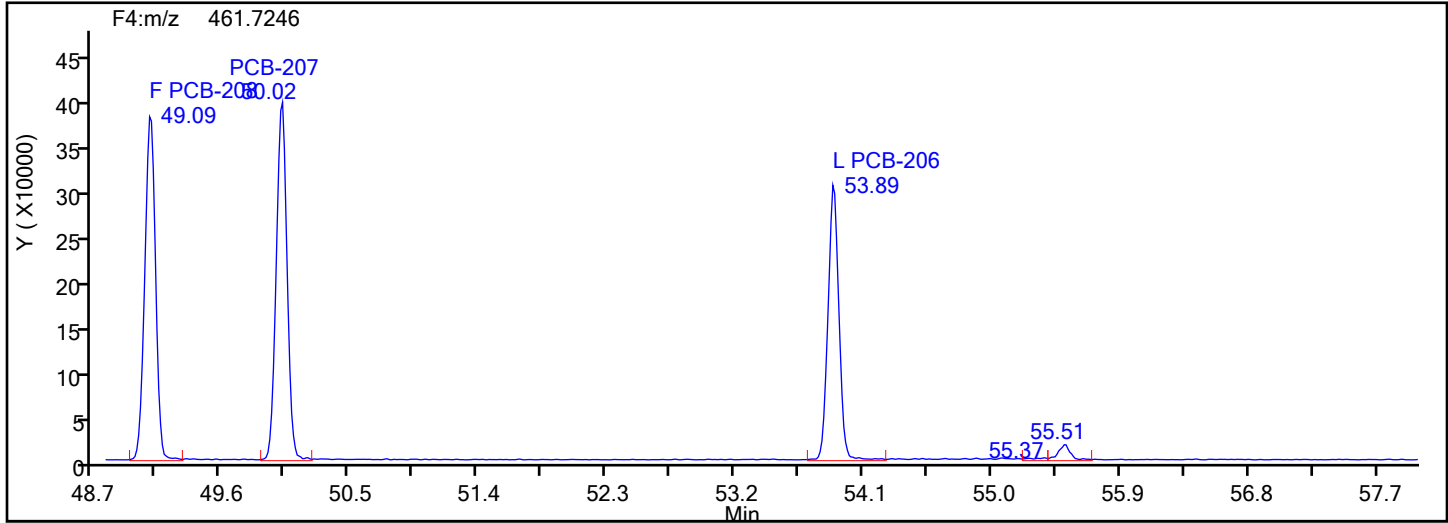
## NoPCB F4 Standards



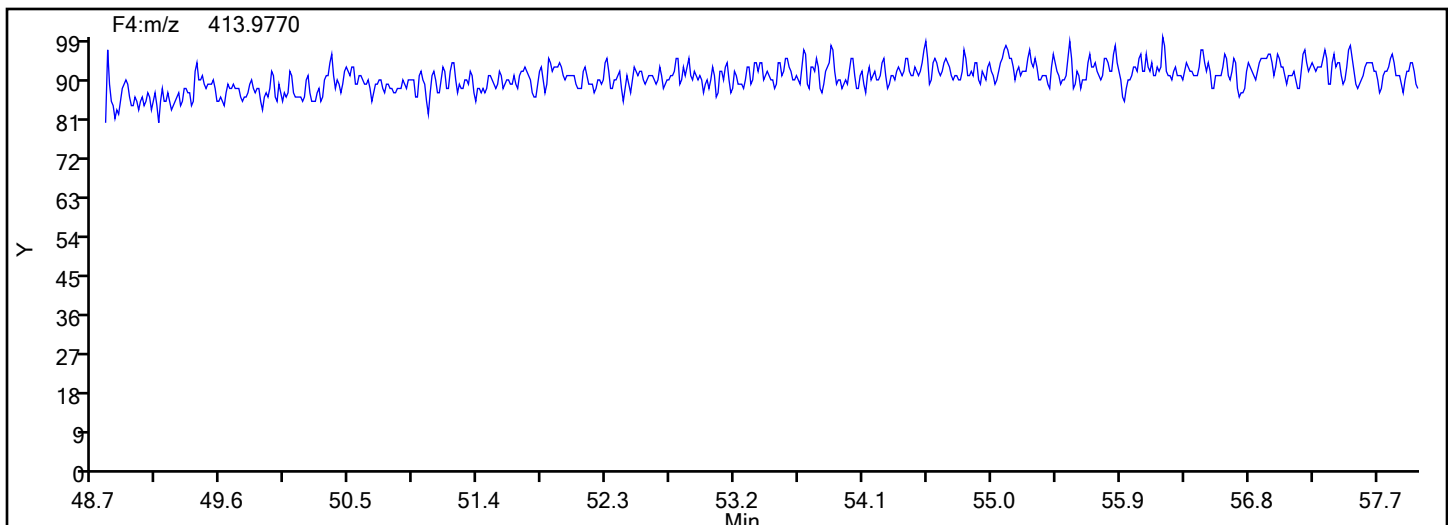


## Eurofins Knoxville

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Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
NoPCB F4

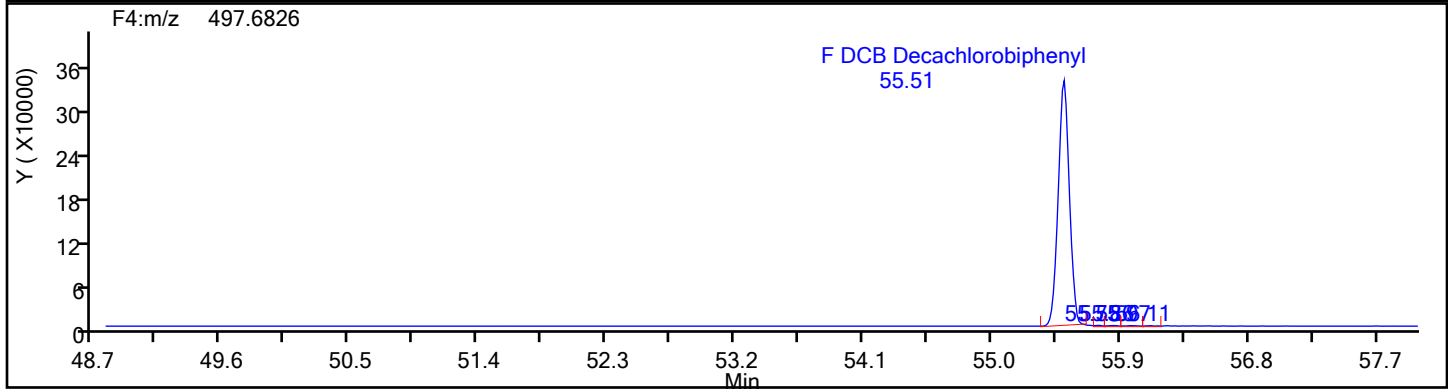
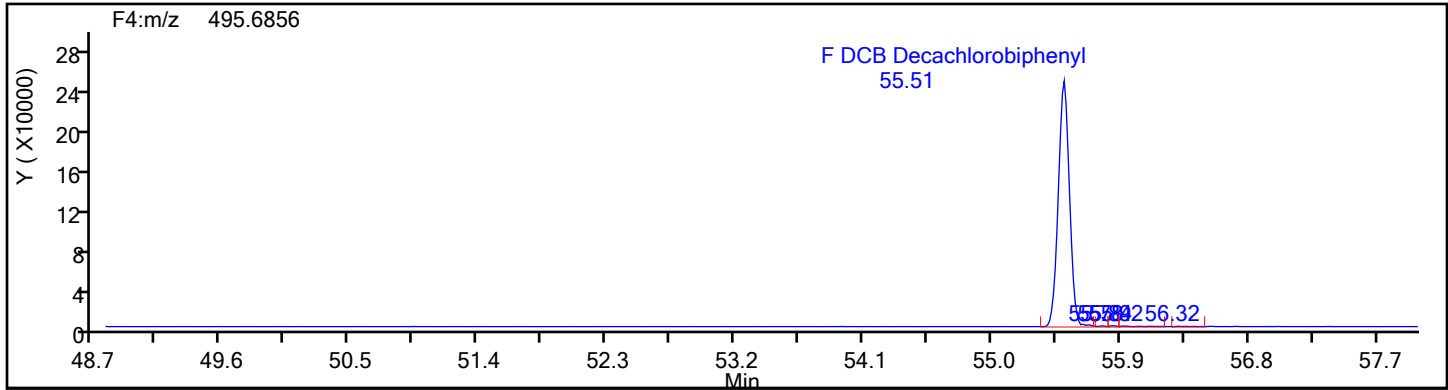


## NoPCB F4 Lock Mass

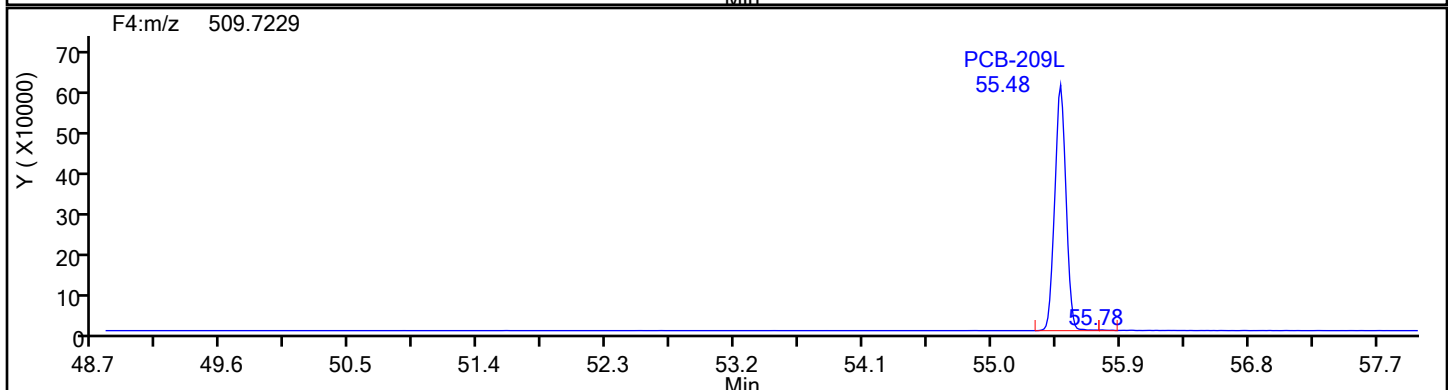
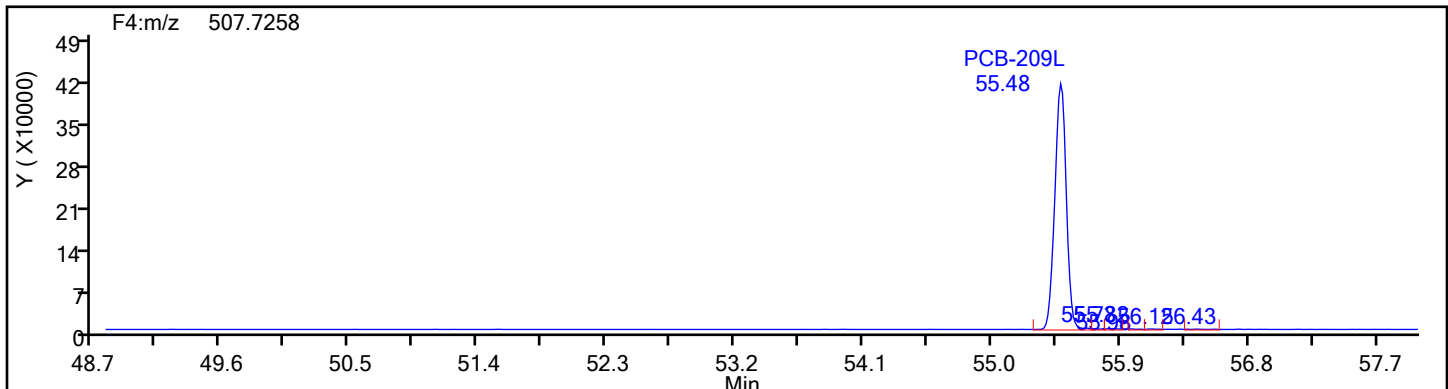


## Eurofins Knoxville

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Injection Date: 02-Jul-2024 17:01:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88362 Sample Line#: 1  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
DePCB F4



## DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240702-33352.b\d2240702c1a.d

Injection Date: 02-Jul-2024 17:01:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

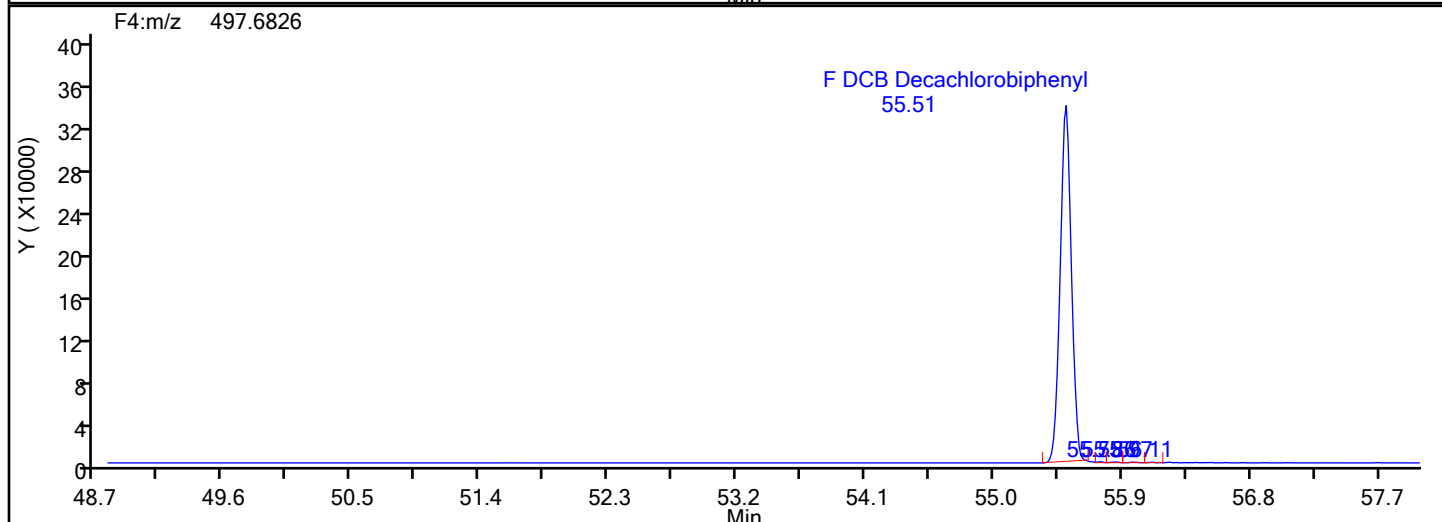
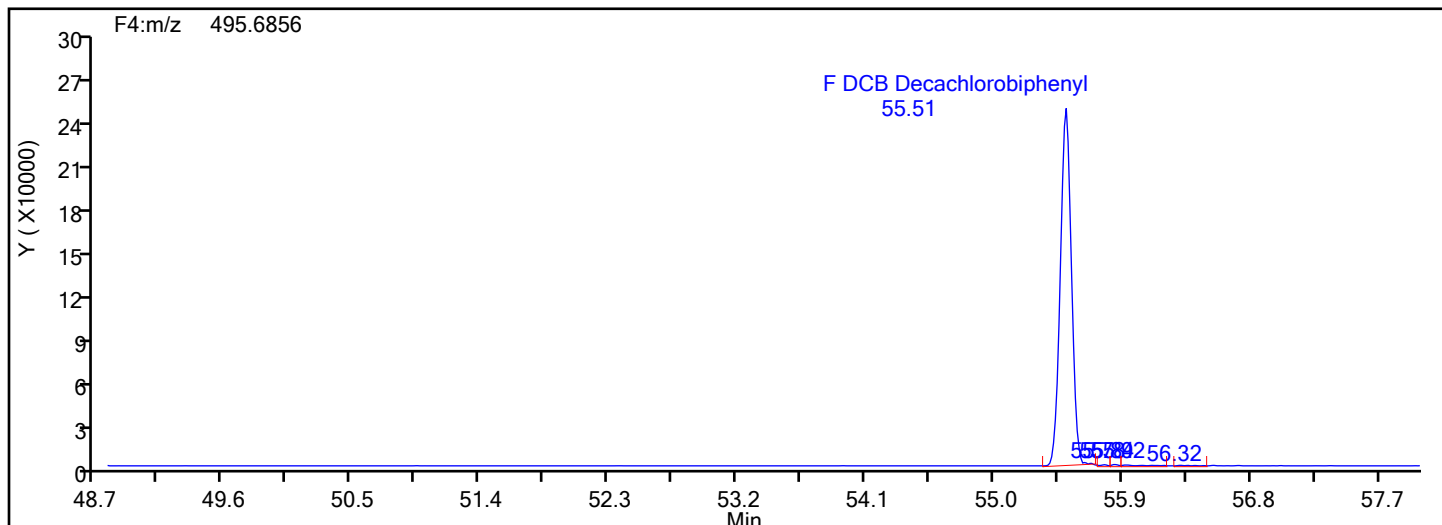
Worklist#: 88362

Sample Line#: 1

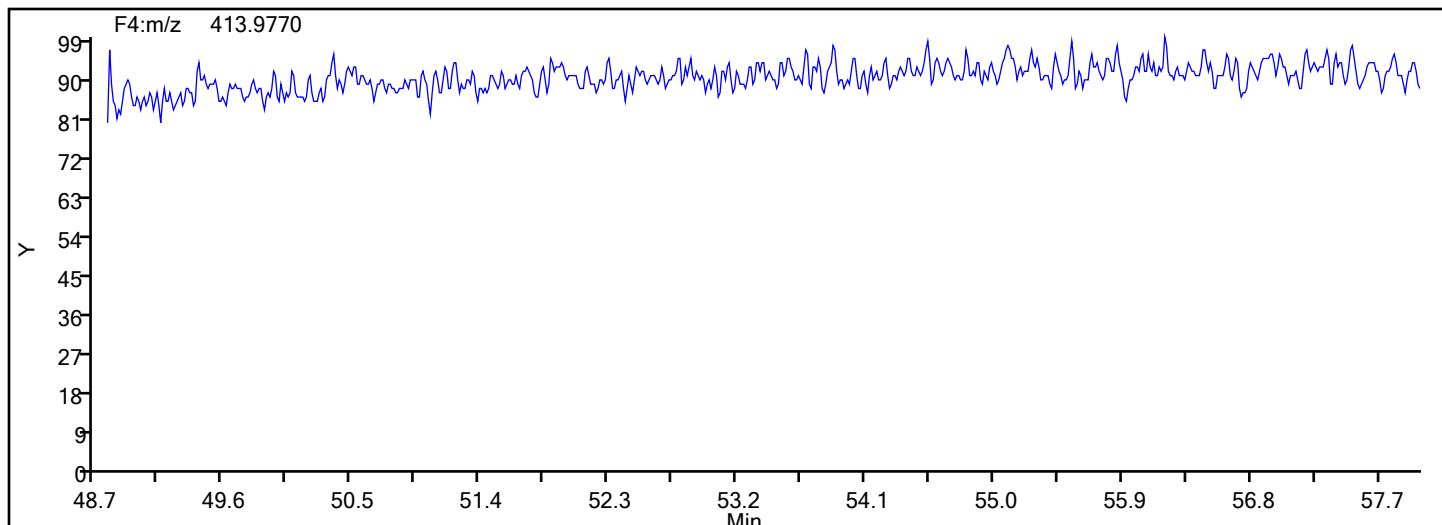
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-87624/21-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-8762421-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/28/2024 02:59</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	0.005311	J q	0.600	0.132	0.00133
37680-65-2	PCB-18	0.01087	J C	0.600	0.285	0.00192
7012-37-5	PCB-28	0.03140	J C20	0.600	0.252	0.00279
41464-39-5	PCB-44	ND	C	0.900	0.390	0.0162
35693-99-3	PCB-52	ND		0.300	0.132	0.0171
32598-10-0	PCB-66	ND		0.300	0.120	0.0125
32598-13-3	PCB-77	ND		0.300	0.126	0.0142
70362-50-4	PCB-81	ND		0.300	0.0960	0.0149
37680-73-2	PCB-101	ND	C90	0.900	0.390	0.00251
32598-14-4	PCB-105	ND		0.300	0.102	0.00624
74472-37-0	PCB-114	ND		0.300	0.165	0.00636
31508-00-6	PCB-118	0.01078	J q	0.300	0.183	0.00564
65510-44-3	PCB-123	ND		0.300	0.171	0.00659
57465-28-8	PCB-126	ND		0.300	0.123	0.00672
38380-07-3	PCB-128	ND	C	0.600	0.204	0.00397
35065-28-2	PCB-138	0.01471	J q C129	1.20	0.510	0.00412
35065-27-1	PCB-153	ND	C	0.600	0.249	0.00357
38380-08-4	PCB-156	ND	C	0.600	0.255	0.00437
69782-90-7	PCB-157	ND	C156	0.600	0.255	0.00437
52663-72-6	PCB-167	0.008199	J q	0.300	0.180	0.00289
32774-16-6	PCB-169	0.004557	J q	0.300	0.123	0.00283
35065-30-6	PCB-170	ND		0.300	0.132	0.000229
35065-29-3	PCB-180	0.01591	J C	0.600	0.204	0.000191
52663-68-0	PCB-187	ND		0.300	0.126	0.000202
39635-31-9	PCB-189	ND		0.300	0.147	0.00276
52663-78-2	PCB-195	ND		0.300	0.159	0.00188
40186-72-9	PCB-206	ND		0.300	0.171	0.0292
2051-24-3	PCB-209	0.01017	J q	0.300	0.138	0.000744

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 140-87624/21-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>mb140-8762421-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/28/2024 02:59</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	46		20-145
208263-77-8	PCB-3L	77		20-145
234432-86-1	PCB-4L	45		20-145
208263-67-6	PCB-15L	74		20-145
234432-87-2	PCB-19L	51		20-145
208263-79-0	PCB-37L	78		20-145
234432-88-3	PCB-54L	71		20-145
105600-23-5	PCB-77L	88		20-145
208461-24-9	PCB-81L	85		20-145
234432-89-4	PCB-104L	78		20-145
208263-62-1	PCB-105L	86		20-145
208263-63-2	PCB-114L	83		20-145
104130-40-7	PCB-118L	83		20-145
208263-64-3	PCB-123L	82		20-145
208263-65-4	PCB-126L	89		20-145
234432-90-7	PCB-155L	84		20-145
208263-68-7	PCB-156L	92	C	20-145
235416-30-5	PCB-157L	92	C156	20-145
208263-69-8	PCB-167L	88		20-145
208263-70-1	PCB-169L	91		20-145
160901-80-4	PCB-170L	89		20-145
234432-91-8	PCB-188L	77		20-145
208263-73-4	PCB-189L	102		20-145
105600-26-8	PCB-202L	82		20-145
234446-64-1	PCB-205L	89		20-145
208263-75-6	PCB-206L	87		20-145
234432-92-9	PCB-208L	86		20-145
105600-27-9	PCB-209L	88		20-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 140-87624/21-B  
Matrix: Air Lab File ID: mb140-8762421-b.d  
Analysis Method: 23 Date Collected: \_\_\_\_\_  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1 (Sample) Date Analyzed: 06/28/2024 02:59  
Con. Extract Vol.: 30 (mL) Dilution Factor: 1  
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88205 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	77		20-130
235416-29-2	PCB-111L	81		20-130
232919-67-4	PCB-178L	78		20-130

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d  
Lims ID: MB 140-87624/21-B  
Client ID:  
Sample Type: MB  
Inject. Date: 28-Jun-2024 02:59:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-008  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 11:43:23 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 11:43:23

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					0.1342	0.1237	0.0167	0.0167		RQ
D PCB-1L	11:39	4595579	3.15	1.6108	46.0	46.0	0.2817	0.2817	45.95	
D PCB-3L	13:48	7557007	3.28	1.5891	76.6	76.6	0.2856	0.2856	76.60	
PCB-1	11:42						0.0190	0.0190		
PCB-2	13:39	6088	2.96	1.1805	0.0849	0.0849	0.0169	0.0169		
PCB-3	13:49	3579	3.13	1.2206	0.0493	0.0388	0.0143	0.0143		RQ
S Total Dichlorobiphenyls					0.4610	0.3958	0.005231	0.005231		RQ
D PCB-4L	14:04	1818128	1.59	0.6475	45.2	45.2	0.1807	0.1807	45.23	
* PCB-9L	16:01	6208198	1.61		100.0	100.0				
\$ PCB-8L	16:54						0.1947	0.1947		
D PCB-15L	19:56	4979562	1.62	1.0789	74.3	74.3	0.1084	0.1084	74.34	
PCB-4	14:07						0.007994	0.007994		
PCB-10	14:17						0.005367	0.005367		
PCB-9	16:04						0.004961	0.004961		RQU
PCB-7	16:12	3224	1.56	1.4134	0.0885	0.0671	0.004993	0.004993		RQ
PCB-6	16:28						0.004576	0.004576		RQU
PCB-5	16:48						0.005269	0.005269		
PCB-8	16:53	956	1.56	1.5889	0.0615	0.0177	0.004442	0.004442		RQ
PCB-14	18:32						0.005032	0.005032		
PCB-11	19:21	13690	1.59	1.2951	0.3110	0.3110	0.005449	0.005449		
PCB-12	19:36						0.005283	0.005283		RQU
PCB-13 (C12)	19:36						0.005283	0.005283		RQU
PCB-15	19:59						0.004171	0.004171		U
S Total Trichlorobiphenyls					0.4699	0.4042	0.008905	0.008905		RQ
D PCB-19L	17:10	1324590	1.05	0.6285	50.8	50.8	0.4695	0.4695	50.85	
* PCB-32L	20:25	4144379	1.11		100.0	100.0				
* PCB-31L	22:40	12264708	1.08		100.0	100.0				
\$ PCB-28L	22:57	9902236	1.07	1.0494	76.9	76.9	0.1115	0.1115	76.94	
D PCB-37L	26:58	8342106	1.09	0.8749	77.7	77.7	0.1338	0.1338	77.74	
PCB-19	17:12	328	1.04	1.2809	0.0321	0.0193	0.008830	0.008830		RQ
PCB-18	19:01	847	1.13	1.7652	0.0362	0.0362	0.006407	0.006407		M
PCB-30 (C18)	19:01	847	1.13	1.7652	0.0362	0.0362	0.006407	0.006407		M
PCB-17	19:29						0.009099	0.009099		
PCB-27	19:43						0.006171	0.006171		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-24	19:50						0.006742	0.006742		
PCB-16	19:58						0.0100	0.0100		
PCB-32	20:26	875	1.04	1.8324	0.0681	0.0360	0.006172	0.006172		RQM
PCB-34	21:43						0.009677	0.009677		
PCB-23	21:51						0.0101	0.0101		
PCB-26	22:06	2000	1.04	1.1255	0.0245	0.0213	0.009696	0.009696		RQ
PCB-29 (C26)	22:06	2000	1.04	1.1255	0.0245	0.0213	0.009696	0.009696		RQ
PCB-25	22:24						0.008574	0.008574		
PCB-31	22:39	4705	0.91	1.1532	0.0489	0.0489	0.009463	0.009463		
PCB-20	22:58	10233	1.20	1.1718	0.1047	0.1047	0.009313	0.009313		M
PCB-28 (C20)	22:58	10233	1.20	1.1718	0.1047	0.1047	0.009313	0.009313		M
PCB-21	23:11	2490	1.04	1.0746	0.0373	0.0278	0.0102	0.0102		RQ
PCB-33 (C21)	23:11	2490	1.04	1.0746	0.0373	0.0278	0.0102	0.0102		RQ
PCB-22	23:38	1678	1.04	1.1932	0.0183	0.0169	0.009145	0.009145		RQM
PCB-36	25:11						0.009857	0.009857		
PCB-39	25:33						0.009423	0.009423		
PCB-38	26:07	2912	1.00	1.0843	0.0322	0.0322	0.0101	0.0101		
PCB-35	26:36						0.009660	0.009660		
PCB-37	27:00	5809	1.04	1.1435	0.0676	0.0609	0.009543	0.009543		RQM
S Total Tetrachlorobiphenyls							0.0739	0.0739		
D PCB-54L	20:14	1635713	0.82	0.5562	71.0	71.0	0.0536	0.0536	70.96	
* PCB-52L	24:47	5253111	0.82		100.0	100.0				
\$ PCB-79L	32:43						0.1710	0.1710		
D PCB-81L	33:42	5552948	0.82	1.2470	84.8	84.8	0.1257	0.1257	84.77	
D PCB-77L	34:15	6078741	0.80	1.3212	87.6	87.6	0.1186	0.1186	87.59	
PCB-54	20:18						0.0102	0.0102		
PCB-50	22:27						0.0611	0.0611		
PCB-53 (C50)	22:27						0.0611	0.0611		
PCB-45	23:11						0.0635	0.0635		
PCB-51 (C45)	23:11						0.0635	0.0635		
PCB-46	23:26						0.0739	0.0739		
PCB-52	24:51						0.0570	0.0570		
PCB-43	24:59						0.0508	0.0508		
PCB-73 (C43)	24:59						0.0508	0.0508		
PCB-49	25:16						0.0491	0.0491		
PCB-69 (C49)	25:16						0.0491	0.0491		
PCB-48	25:36						0.0624	0.0624		
PCB-44	25:51						0.0539	0.0539		
PCB-47 (C44)	25:51						0.0539	0.0539		
PCB-65 (C44)	25:51						0.0539	0.0539		
PCB-59	26:10						0.0443	0.0443		
PCB-62 (C59)	26:10						0.0443	0.0443		
PCB-75 (C59)	26:10						0.0443	0.0443		
PCB-42	26:21						0.0648	0.0648		
PCB-40	26:51						0.0592	0.0592		
PCB-41 (C40)	26:51						0.0592	0.0592		
PCB-71 (C40)	26:51						0.0592	0.0592		
PCB-64	27:04						0.0445	0.0445		
PCB-72	27:53						0.0479	0.0479		
PCB-68	28:11						0.0418	0.0418		
PCB-57	28:36						0.0485	0.0485		
PCB-58	28:51						0.0396	0.0396		
PCB-67	29:00						0.0369	0.0369		
PCB-63	29:16						0.0467	0.0467		
PCB-61	29:37						0.0416	0.0416		
PCB-70 (C61)	29:37						0.0416	0.0416		
PCB-74 (C61)	29:37						0.0416	0.0416		
PCB-76 (C61)	29:37						0.0416	0.0416		
PCB-66	29:56						0.0417	0.0417		
PCB-55	30:06						0.0396	0.0396		
PCB-56	30:37						0.0425	0.0425		



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-60	30:49						0.0467	0.0467		
PCB-80	31:13						0.0396	0.0396		
PCB-79	32:45						0.0365	0.0365		
PCB-78	33:18						0.0451	0.0451		
PCB-81	33:44						0.0495	0.0495		
PCB-77	34:18						0.0475	0.0475		
S Total Pentachlorobiphenyls					0.5793	0.3247	0.0126	0.0126		RQ
D PCB-104L	25:43	3332876	1.56	1.2161	77.7	77.7	0.0417	0.0417	77.68	
\$ PCB-95L	28:44						0.0673	0.0673		
* PCB-101L	31:37	3528134	1.63		100.0	100.0				
\$ PCB-111L	34:17	3898408	1.59	1.3699	80.7	80.7	0.0371	0.0371	80.66	
D PCB-123L	36:15	6633940	1.58	0.9731	81.8	81.8	1.002	1.002	81.81	
D PCB-118L	36:34	6986368	1.60	1.0102	83.0	83.0	0.9655	0.9655	82.99	
D PCB-114L	37:06	6901237	1.63	0.9949	83.2	83.2	0.9803	0.9803	83.24	
D PCB-105L	37:46	6807399	1.58	0.9514	85.9	85.9	1.025	1.025	85.86	
* PCB-127L	39:13	8333070	1.62		100.0	100.0				
D PCB-126L	40:50	7029881	1.59	0.9439	89.4	89.4	1.033	1.033	89.38	
PCB-104	25:47						0.007914	0.007914		
PCB-96	26:10						0.007297	0.007297		
PCB-103	28:04						0.009133	0.009133		
PCB-94	28:18						0.0104	0.0104		
PCB-95	28:46	1408	1.58	0.8033	0.0526	0.0526	0.0099	0.0099		M
PCB-93	28:58	186	1.55	0.8429	0.0850	0.006621	0.009471	0.009471		RQM
PCB-100 (C93)	28:58	186	1.55	0.8429	0.0850	0.006621	0.009471	0.009471		RQM
PCB-98	29:06						0.009663	0.009663		
PCB-102 (C98)	29:06						0.009663	0.009663		
PCB-88	29:36						0.0100	0.0100		
PCB-91 (C88)	29:36						0.0100	0.0100		
PCB-84	29:46						0.0109	0.0109		RQU
PCB-89	30:15	410	1.55	0.7798	0.0227	0.0158	0.0102	0.0102		RQ
PCB-121	30:42	366	1.55	1.2964	0.0151	0.008471	0.006158	0.006158		RQ
PCB-92	31:05						0.009342	0.009342		
PCB-90	31:39						0.008359	0.008359		
PCB-101 (C90)	31:39						0.008359	0.008359		
PCB-113 (C90)	31:39						0.008359	0.008359		
PCB-83	32:14						0.009521	0.009521		
PCB-99 (C83)	32:14						0.009521	0.009521		
PCB-112	32:22						0.005657	0.005657		
PCB-86	32:43	3047	1.55	1.0473	0.1933	0.0873	0.007623	0.007623		RQM
PCB-87 (C86)	32:43	3047	1.55	1.0473	0.1933	0.0873	0.007623	0.007623		RQM
PCB-97 (C86)	32:43	3047	1.55	1.0473	0.1933	0.0873	0.007623	0.007623		RQM
PCB-109 (C86)	32:43	3047	1.55	1.0473	0.1933	0.0873	0.007623	0.007623		RQM
PCB-119 (C86)	32:43	3047	1.55	1.0473	0.1933	0.0873	0.007623	0.007623		RQM
PCB-125 (C86)	32:43	3047	1.55	1.0473	0.1933	0.0873	0.007623	0.007623		RQM
PCB-85	33:28						0.007670	0.007670		RQU
PCB-116 (C85)	33:28						0.007670	0.007670		RQU
PCB-117 (C85)	33:28						0.007670	0.007670		RQU
PCB-110	33:36	2960	1.55	1.1919	0.0962	0.0745	0.006698	0.006698		RQ
PCB-115 (C110)	33:36	2960	1.55	1.1919	0.0962	0.0745	0.006698	0.006698		RQ
PCB-82	33:55	1203	1.55	0.8303	0.0562	0.0435	0.009614	0.009614		RQ
PCB-111	34:20						0.006584	0.006584		
PCB-120	34:47						0.005408	0.005408		
PCB-108	35:56						0.0208	0.0208		
PCB-124 (C108)	35:56						0.0208	0.0208		
PCB-107	36:10						0.0195	0.0195		
PCB-123	36:18						0.0220	0.0220		
PCB-106	36:25						0.0218	0.0218		
PCB-118	36:35	3026	1.55	1.2055	0.0582	0.0359	0.0188	0.0188		RQM
PCB-122	36:59						0.0247	0.0247		
PCB-114	37:09						0.0212	0.0212		

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-105	37:48						0.0208	0.0208		
PCB-127	39:16						0.0208	0.0208		
PCB-126	40:53						0.0224	0.0224		
S Total Hexachlorobiphenyls					0.2232	0.1868	0.0109	0.0109		RQ
D PCB-155L	31:22	3229285	1.29	1.0851	84.3	84.3	0.0675	0.0675	84.35	
\$ PCB-153L	38:26	91445	1.42	0.9169	1.748	1.748	0.4004	0.4004		
* PCB-138L	39:41	5092057	1.28		100.0	100.0				
\$ PCB-159L	41:56						0.5939	0.5939		
D PCB-167L	42:41	5652972	1.28	1.2572	88.3	88.3	0.2675	0.2675	88.30	
D PCB-156L	43:51	11387604	1.28	1.2106	184.7	184.7	0.2778	0.2778	92.37	
D PCB-157L (C156L)	43:51	11387604	1.28	1.2106	184.7	184.7	0.2778	0.2778	92.37	
D PCB-169L	47:04	5775131	1.27	1.2439	91.2	91.2	0.2704	0.2704	91.18	
PCB-155	31:24	668	1.24	0.9444	0.0245	0.0219	0.003489	0.003489		RQ
PCB-152	31:39						0.003330	0.003330		
PCB-150	31:48						0.003252	0.003252		
PCB-136	32:10						0.003257	0.003257		
PCB-145	32:28						0.003402	0.003402		
PCB-148	33:57						0.004334	0.004334		
PCB-135	34:33						0.004541	0.004541		
PCB-151 (C135)	34:33						0.004541	0.004541		
PCB-154	34:48						0.004053	0.004053		
PCB-144	35:07						0.004196	0.004196		
PCB-147	35:26	2682	1.10	0.8950	0.0525	0.0525	0.0145	0.0145		M
PCB-149 (C147)	35:26	2682	1.10	0.8950	0.0525	0.0525	0.0145	0.0145		M
PCB-134	35:47						0.0163	0.0163		
PCB-143 (C134)	35:47						0.0163	0.0163		
PCB-139	36:04						0.0148	0.0148		
PCB-140 (C139)	36:04						0.0148	0.0148		
PCB-131	36:17						0.0173	0.0173		
PCB-142	36:25						0.0173	0.0173		
PCB-132	36:45						0.0174	0.0174		
PCB-133	37:14						0.0161	0.0161		
PCB-165	37:38						0.0127	0.0127		
PCB-146	37:52						0.0135	0.0135		
PCB-161	37:56						0.0115	0.0115		RQU
PCB-153	38:31						0.0119	0.0119		
PCB-168 (C153)	38:31						0.0119	0.0119		
PCB-141	38:41						0.0148	0.0148		
PCB-130	39:06						0.0184	0.0184		
PCB-137	39:19						0.0167	0.0167		
PCB-164	39:28	852	1.24	1.0382	0.0245	0.0144	0.0125	0.0125		RQ
PCB-129	39:42	2647	1.24	0.9464	0.0572	0.0490	0.0137	0.0137		RQM
PCB-138 (C129)	39:42	2647	1.24	0.9464	0.0572	0.0490	0.0137	0.0137		RQM
PCB-160 (C129)	39:42	2647	1.24	0.9464	0.0572	0.0490	0.0137	0.0137		RQM
PCB-163 (C129)	39:42	2647	1.24	0.9464	0.0572	0.0490	0.0137	0.0137		RQM
PCB-158	40:07						0.0099	0.0099		
PCB-128	41:01	361	1.24	0.9829	0.0122	0.006439	0.0132	0.0132		RQM
PCB-166 (C128)	41:01	361	1.24	0.9829	0.0122	0.006439	0.0132	0.0132		RQM
PCB-159	41:58						0.009381	0.009381		
PCB-162	42:15						0.0103	0.0103		
PCB-167	42:43	1724	1.24	1.1159	0.0316	0.0273	0.009644	0.009644		RQM
PCB-156	43:54						0.0146	0.0146		
PCB-157 (C156)	43:54						0.0146	0.0146		
PCB-169	47:06	1020	1.24	1.1628	0.0207	0.0152	0.009423	0.009423		RQM
S Total Heptachlorobiphenyls					0.2446	0.2152	0.001088	0.001088		RQ
D PCB-188L	37:05	4031938	1.05	1.3133	77.4	77.4	0.0320	0.0320	77.39	
\$ PCB-178L	40:09	3204601	1.06	1.0313	78.3	78.3	0.0408	0.0408	78.33	
* PCB-180L	45:13	3967042	1.07		100.0	100.0				
D PCB-170L	46:29	2947109	1.05	0.8362	88.8	88.8	0.0503	0.0503	88.84	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
D PCB-189L	49:35	8771529	1.06	1.4414	101.9	101.9	0.4052	0.4052	102	
PCB-188	37:07	45	1.05	1.1350	0.002644	0.000983	0.000555	0.000555		RQ
PCB-179	37:29						0.000521	0.000521		
PCB-184	37:59						0.000544	0.000544		
PCB-176	38:22						0.000603	0.000603		
PCB-186	38:49						0.000504	0.000504		
PCB-178	40:12						0.000831	0.000831		
PCB-175	40:49						0.000781	0.000781		
PCB-187	41:05						0.000675	0.000675		
PCB-182	41:17						0.000804	0.000804		
PCB-183	41:40	3854	1.05	0.9825	0.1245	0.1124	0.000757	0.000757		RQM
PCB-185 (C183)	41:40	3854	1.05	0.9825	0.1245	0.1124	0.000757	0.000757		RQM
PCB-174	41:57						0.000771	0.000771		
PCB-177	42:23						0.000761	0.000761		
PCB-181	42:46						0.000782	0.000782		
PCB-171	43:00	116	1.05	0.9336	0.005249	0.003560	0.000796	0.000796		RQ
PCB-173 (C171)	43:00	116	1.05	0.9336	0.005249	0.003560	0.000796	0.000796		RQ
PCB-172	44:37						0.000873	0.000873		
PCB-192	44:51	435	1.05	1.3459	0.0134	0.009262	0.000552	0.000552		RQ
PCB-180	45:14	2161	1.14	1.1676	0.0530	0.0530	0.000637	0.000637		M
PCB-193 (C180)	45:14	2161	1.14	1.1676	0.0530	0.0530	0.000637	0.000637		M
PCB-191	45:37	1348	1.05	1.2891	0.0333	0.0300	0.000577	0.000577		RQ
PCB-170	46:31						0.000764	0.000764		
PCB-190	46:59	277	1.05	1.3322	0.0125	0.005958	0.000558	0.000558		RQ
PCB-189	49:37						0.009206	0.009206		
S Total Octachlorobiphenyls					0.0459	0.0406	0.003317	0.003317		RQ
D PCB-202L	42:27	3208834	0.89	0.9818	82.4	82.4	0.0478	0.0478	82.39	
* PCB-194L	51:42	5972846	0.93		100.0	100.0				
D PCB-205L	52:09	6272349	0.91	1.1786	89.1	89.1	0.0682	0.0682	89.10	
PCB-202	42:30						0.002335	0.002335		
PCB-201	43:25						0.002479	0.002479		
PCB-204	44:05						0.002306	0.002306		
PCB-197	44:18						0.002111	0.002111		
PCB-200	44:26						0.002401	0.002401		
PCB-198	47:12						0.002780	0.002780		
PCB-199 (C198)	47:12						0.002780	0.002780		
PCB-196	47:53						0.003098	0.003098		
PCB-203	48:05	351	0.89	0.9292	0.0171	0.0118	0.002603	0.002603		RQ
PCB-195	49:24						0.006278	0.006278		
PCB-194	51:44						0.005329	0.005329		
PCB-205	52:09	1967	0.88	1.0878	0.0288	0.0288	0.004769	0.004769		
S Total Nonachlorobiphenyls							0.0973	0.0973		
D PCB-208L	49:07	4894326	0.79	0.9576	85.6	85.6	0.1763	0.1763	85.57	
D PCB-206L	53:55	3606146	0.77	0.6947	86.9	86.9	0.2431	0.2431	86.91	
PCB-208	49:09						0.0829	0.0829		
PCB-207	50:05						0.0794	0.0794		
PCB-206	53:58						0.0973	0.0973		
D PCB-209L	55:32	3493094	0.72	0.6669	87.7	87.7	0.0646	0.0646	87.70	
DCB Decachlorobiphenyl	55:33	1303	0.69	1.1004	0.0470	0.0339	0.002479	0.002479		RQM
PCB-70L (PRC)	0.0						0.0	0.0		
PCB-111L (PRC)	0.0						0.0	0.0		
PCB-141L (PRC)	0.0						0.0	0.0		
PCB-8L (PRC)	0.0						0.0	0.0		
PCB-47L (PRC)	0.0						0.0	0.0		
PCB-28L (PRC)	0.0						0.0	0.0		
S Polychlorinated biphenyls, Total					2.071	0.0339	0.0240	0.0240		RQ
PCB-182L (PRC)	0.0						0.0	0.0		
PCB-80L (PRC)	0.0						0.0	0.0		

[QC Flag Legend](#)

Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

Review Flags

M - Manually Integrated

U - Marked Undetected

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d  
Lims ID: MB 140-87624/21-B  
Client ID:  
Sample Type: MB  
Inject. Date: 28-Jun-2024 02:59:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-008  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 11:43:23 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 11:43:23

Signal	RT (min.)	Adj RT (min.)	⏏ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:39	11:43	-3	0.727	3489382	1351322	2222	5555	608		
202.0766	11:39	11:43	-3	0.727	1106197	424615	876	2190	485	3.15(2.66-3.60)	
PCB-3L											
200.0795	13:48	13:52	-2	0.861	5791890	1810479	2222	5555	815		
202.0766	13:48	13:52	-2	0.861	1765117	546582	876	2190	624	3.28(2.66-3.60)	
PCB-1											
188.0393	11:42						101	252			
190.0363	11:42						64	160			
PCB-2											
188.0393	13:39	13:42	-2	0.989	4552	1229	101	252	12		
190.0363	13:39	13:42	-2	0.989	1536	713	64	160	11	2.96(2.66-3.60)	
PCB-3											
188.0393	13:49	13:52	-2	1.001	2713	822	101	252	8		RQ
190.0363	13:50	13:52	-1	1.002	1835	764	64	160	12	1.48(2.66-3.60)	
Empc Correction					866	262	64	160	4		
PCB-4L											
234.0406	14:04	14:08	-2	0.878	1114975	361282	529	1322	683		
236.0376	14:04	14:08	-2	0.878	703153	224290	270	675	831	1.59(1.33-1.79)	
PCB-9L											
234.0406	16:01	16:04	-2		3831695	1050834	529	1322	1986		
236.0376	16:01	16:04	-2		2376503	655853	270	675	2429	1.61(1.33-1.79)	
PCB-8L											
234.0406	16:51						529	1322			
236.0376	16:51						270	675			

Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-15L											
234.0406	19:56	20:00	-2	1.244	3080702	686458	529	1322	1298		
236.0376	19:56	20:00	-2	1.244	1898860	428394	270	675	1587	1.62(1.33-1.79)	
PCB-4											
222.0003	14:09						10	25			
223.9974	14:09						14	35			
PCB-10											
222.0003	14:20						10	25			
223.9974	14:20						14	35			
PCB-9											
222.0003	16:07						10	25			RQU
223.9974	16:07						14	35			
PCB-7											
222.0003	16:12	16:17	-2	1.152	1965	445	10	25	45		RQ
223.9974	16:08	16:17	-6	1.148	2287	461	14	35	33	0.86(1.33-1.79)	
	Empc Correction				1259	285	14	35	20		
PCB-6											
222.0003	16:32						10	25			RQU
223.9974	16:32						14	35			
PCB-5											
222.0003	16:45						10	25			
223.9974	16:45						14	35			
PCB-8											
222.0003	16:53	16:58	-1	1.201	583	202	10	25	20		RQ
223.9974	16:53	16:58	-2	1.200	2736	706	14	35	50	0.21(1.33-1.79)	
	Empc Correction				373	129	14	35	9		
PCB-14											
222.0003	18:37						10	25			
223.9974	18:37						14	35			
PCB-11											
222.0003	19:21	19:28	-1	0.970	8396	1936	10	25	194		
223.9974	19:20	19:28	-2	0.970	5294	787	14	35	56	1.59(1.33-1.79)	
PCB-12											
222.0003	19:46						10	25			RQU
223.9974	19:46						14	35			
PCB-13 (C12)											
222.0003	19:46						10	25			RQU
223.9974	19:46						14	35			
PCB-15											
222.0003	20:05						10	25			U
223.9974	20:05						14	35			
PCB-19L											
268.0016	17:10	17:17	-2	0.841	679917	181557	635	1587	286		
269.9986	17:10	17:17	-2	0.841	644673	172104	553	1382	311	1.05(0.88-1.20)	
PCB-32L											
268.0016	20:25	20:27	-2		2177045	523938	635	1587	825		
269.9986	20:25	20:27	-2		1967334	482405	553	1382	872	1.11(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-31L											
268.0016	22:40	22:42	-2		6375942	1404715	795	1987	1767		
269.9986	22:40	22:42	-2		5888766	1305353	474	1185	2754	1.08(0.88-1.20)	
PCB-28L											
268.0016	22:57	23:02	-2	1.012	5111012	1105864	795	1987	1391		
269.9986	22:57	23:02	-2	1.012	4791224	1032626	474	1185	2179	1.07(0.88-1.20)	
PCB-37L											
268.0016	26:58	27:03	-1	1.189	4350742	793461	795	1987	998		
269.9986	26:58	27:03	-1	1.189	3991364	736872	474	1185	1555	1.09(0.88-1.20)	
PCB-19											
255.9613	17:12	17:15	-1	1.002	383	159	10	25	16		RQ
	Empc Correction				167	60	10	25	6		
257.9584	17:11	17:15	-2	1.001	161	58	6	15	10	2.38(0.88-1.20)	
PCB-18											
255.9613	19:01	19:01	-1	1.108	450	129	10	25	13		M
257.9584	19:01	19:01	-1	1.108	397	110	6	15	18	1.13(0.88-1.20)	M
PCB-30 (C18)											
255.9613	19:01	19:01	-1	1.108	450	129	10	25	13		M
257.9584	19:01	19:01	-1	1.108	397	110	6	15	18	1.13(0.88-1.20)	M
PCB-17											
255.9613	19:27						10	25			
257.9584	19:27						6	15			
PCB-27											
255.9613	19:40						10	25			
257.9584	19:40						6	15			
PCB-24											
255.9613	19:47						10	25			
257.9584	19:47						6	15			
PCB-16											
255.9613	20:00						10	25			
257.9584	20:00						6	15			
PCB-32											
255.9613	20:26	20:24	-1	1.191	1224	487	10	25	49		RQM
	Empc Correction				446	206	10	25	21		M
257.9584	20:24	20:24	-4	1.188	429	199	6	15	33	2.85(0.88-1.20)	M
PCB-34											
255.9613	21:40						21	52			
257.9584	21:40						46	115			
PCB-23											
255.9613	21:49						21	52			
257.9584	21:49						46	115			
PCB-26											
255.9613	22:06	22:14	-4	1.288	1020	243	21	52	12		RQ
257.9584	22:09	22:14	-2	1.290	1284	339	46	115	7	0.79(0.88-1.20)	
	Empc Correction				980	233	46	115	5		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-29 (C26)											RQ
255.9613	22:06	22:14	-4	1.288	1020	243	21	52	12		
257.9584	22:09	22:14	-2	1.290	1284	339	46	115	7	0.79(0.88-1.20)	
Empc Correction					980	233	46	115	5		
PCB-25											
255.9613	22:27						21	52			
257.9584	22:27						46	115			
PCB-31											
255.9613	22:39	22:45	-3	0.840	2244	615	21	52	29		
257.9584	22:40	22:45	-3	0.841	2461	541	46	115	12	0.91(0.88-1.20)	
PCB-20											M
255.9613	22:58	22:58	-3	0.852	5585	1183	21	52	56		M
257.9584	22:58	22:58	-3	0.852	4648	1089	46	115	24	1.20(0.88-1.20)	
PCB-28 (C20)											M
255.9613	22:58	22:58	-3	0.852	5585	1183	21	52	56		M
257.9584	22:58	22:58	-3	0.852	4648	1089	46	115	24	1.20(0.88-1.20)	
PCB-21											RQ
255.9613	23:11	23:17	-3	0.860	2124	655	21	52	31		
Empc Correction					1269	378	21	52	18		
257.9584	23:11	23:17	-3	0.860	1221	364	46	115	8	1.74(0.88-1.20)	
PCB-33 (C21)											RQ
255.9613	23:11	23:17	-3	0.860	2124	655	21	52	31		
Empc Correction					1269	378	21	52	18		
257.9584	23:11	23:17	-3	0.860	1221	364	46	115	8	1.74(0.88-1.20)	
PCB-22											RQM
255.9613	23:38	23:40	0	0.877	998	483	21	52	23		
Empc Correction					855	391	21	52	19		
257.9584	23:40	23:40	1	0.878	823	376	46	115	8	1.21(0.88-1.20)	M
PCB-36											
255.9613	25:14						21	52			
257.9584	25:14						46	115			
PCB-39											
255.9613	25:36						21	52			
257.9584	25:36						46	115			
PCB-38											
255.9613	26:07	26:10	0	0.969	1456	668	21	52	32		
257.9584	26:07	26:10	0	0.969	1456	423	46	115	9	1.00(0.88-1.20)	
PCB-35											
255.9613	26:35						21	52			
257.9584	26:35						46	115			
PCB-37											RQM
255.9613	27:00	26:59	-1	1.001	3596	621	21	52	30		M
Empc Correction					2961	551	21	52	26		
257.9584	26:59	26:59	-1	1.001	2848	530	46	115	12	1.26(0.88-1.20)	M
PCB-54L											
301.9626	20:14	20:19	-2	0.816	736320	181648	103	257	1764		
303.9597	20:14	20:19	-2	0.816	899393	218476	17	42	12852	0.82(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-52L											
301.9626	24:47	24:49	-2		2359108	507988	284	710	1789		
303.9597	24:47	24:49	-2		2894003	638844	435	1087	1469	0.82(0.65-0.89)	
PCB-79L											
301.9626	32:42						284	710			
303.9597	32:42						435	1087			
PCB-81L											
301.9626	33:42	33:47	-1	1.359	2500241	460792	284	710	1623		
303.9597	33:42	33:47	-1	1.359	3052707	567499	435	1087	1305	0.82(0.65-0.89)	
PCB-77L											
301.9626	34:15	34:20	-1	1.382	2708653	470766	284	710	1658		
303.9597	34:15	34:20	-1	1.382	3370088	598251	435	1087	1375	0.80(0.65-0.89)	
PCB-54											
289.9224	20:18						7	17			
291.9194	20:18						14	35			
PCB-50											
289.9224	22:35						5	12			
291.9194	22:35						215	537			
PCB-53 (C50)											
289.9224	22:35						5	12			
291.9194	22:35						215	537			
PCB-45											
289.9224	23:19						5	12			
291.9194	23:19						215	537			
PCB-51 (C45)											
289.9224	23:19						5	12			
291.9194	23:19						215	537			
PCB-46											
289.9224	23:24						5	12			
291.9194	23:24						215	537			
PCB-52											
289.9224	24:59						5	12			
291.9194	24:59						215	537			
PCB-43											
289.9224	25:07						5	12			
291.9194	25:07						215	537			
PCB-73 (C43)											
289.9224	25:07						5	12			
291.9194	25:07						215	537			
PCB-49											
289.9224	25:24						5	12			
291.9194	25:24						215	537			
PCB-69 (C49)											
289.9224	25:24						5	12			
291.9194	25:24						215	537			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-48											
289.9224	25:44						5	12			
291.9194	25:44						215	537			
PCB-44											
289.9224	25:59						5	12			
291.9194	25:59						215	537			
PCB-47 (C44)											
289.9224	25:59						5	12			
291.9194	25:59						215	537			
PCB-65 (C44)											
289.9224	25:59						5	12			
291.9194	25:59						215	537			
PCB-59											
289.9224	26:18						5	12			
291.9194	26:18						215	537			
PCB-62 (C59)											
289.9224	26:18						5	12			
291.9194	26:18						215	537			
PCB-75 (C59)											
289.9224	26:18						5	12			
291.9194	26:18						215	537			
PCB-42											
289.9224	26:30						5	12			
291.9194	26:30						215	537			
PCB-40											
289.9224	27:00						5	12			
291.9194	27:00						215	537			
PCB-41 (C40)											
289.9224	27:00						5	12			
291.9194	27:00						215	537			
PCB-71 (C40)											
289.9224	27:00						5	12			
291.9194	27:00						215	537			
PCB-64											
289.9224	27:13						5	12			
291.9194	27:13						215	537			
PCB-72											
289.9224	27:56						5	12			
291.9194	27:56						215	537			
PCB-68											
289.9224	28:13						5	12			
291.9194	28:13						215	537			
PCB-57											
289.9224	28:39						5	12			
291.9194	28:39						215	537			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-58											
289.9224	28:50						5	12			
291.9194	28:50						215	537			
PCB-67											
289.9224	29:03						5	12			
291.9194	29:03						215	537			
PCB-63											
289.9224	29:19						5	12			
291.9194	29:19						215	537			
PCB-61											
289.9224	29:39						5	12			
291.9194	29:39						215	537			
PCB-70 (C61)											
289.9224	29:39						5	12			
291.9194	29:39						215	537			
PCB-74 (C61)											
289.9224	29:39						5	12			
291.9194	29:39						215	537			
PCB-76 (C61)											
289.9224	29:39						5	12			
291.9194	29:39						215	537			
PCB-66											
289.9224	29:59						5	12			
291.9194	29:59						215	537			
PCB-55											
289.9224	30:09						5	12			
291.9194	30:09						215	537			
PCB-56											
289.9224	30:39						5	12			
291.9194	30:39						215	537			
PCB-60											
289.9224	30:48						5	12			
291.9194	30:48						215	537			
PCB-80											
289.9224	31:11						5	12			
291.9194	31:11						215	537			
PCB-79											
289.9224	32:47						5	12			
291.9194	32:47						215	537			
PCB-78											
289.9224	33:16						5	12			
291.9194	33:16						215	537			
PCB-81											
289.9224	33:47						5	12			
291.9194	33:47						215	537			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-77											
289.9224	34:20						5	12			
291.9194	34:20						215	537			
PCB-104L											
337.9207	25:43	25:48	-2	0.813	2031495	458888	100	250	4589		
339.9178	25:43	25:48	-2	0.813	1301381	292698	46	115	6363	1.56(1.32-1.78)	
PCB-95L											
337.9207	28:42						100	250			
339.9178	28:42						46	115			
PCB-101L											
337.9207	31:37	31:39	-1		2184765	448324	100	250	4483		
339.9178	31:37	31:39	-2		1343369	270770	46	115	5886	1.63(1.32-1.78)	
PCB-111L											
337.9207	34:17	34:21	-1	1.084	2395662	482214	100	250	4822		
339.9178	34:17	34:21	-1	1.084	1502746	301675	46	115	6558	1.59(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:19	-1	1.146	4066311	804667	3550	8875	227		
339.9178	36:15	36:19	-1	1.146	2567629	519428	2658	6645	195	1.58(1.32-1.78)	
PCB-118L											
337.9207	36:34	36:39	-1	1.156	4301328	847838	3550	8875	239		
339.9178	36:34	36:39	-1	1.156	2685040	527813	2658	6645	199	1.60(1.32-1.78)	
PCB-114L											
337.9207	37:06	37:11	-1	1.173	4272384	841499	3550	8875	237		
339.9178	37:06	37:11	-1	1.173	2628853	515266	2658	6645	194	1.63(1.32-1.78)	
PCB-105L											
337.9207	37:46	37:50	-1	1.194	4171296	772174	3550	8875	218		
339.9178	37:46	37:50	-1	1.194	2636103	490869	2658	6645	185	1.58(1.32-1.78)	
PCB-127L											
337.9207	39:13	39:14	-1		5150072	985489	3550	8875	278		
339.9178	39:13	39:14	-1		3182998	605801	2658	6645	228	1.62(1.32-1.78)	
PCB-126L											
337.9207	40:50	40:55	-1	1.292	4320808	780676	3550	8875	220		
339.9178	40:50	40:55	-1	1.292	2709073	488422	2658	6645	184	1.59(1.32-1.78)	
PCB-104											
325.8804	25:45						20	50			
327.8775	25:45						4	10			
PCB-96											
325.8804	26:08						20	50			
327.8775	26:08						4	10			
PCB-103											
325.8804	28:07						20	50			
327.8775	28:07						4	10			
PCB-94											
325.8804	28:21						20	50			
327.8775	28:21						4	10			

	Signal	RT (min.)	Adj RT (min.)	⌈ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
	PCB-95											M
	325.8804	28:46	28:46	2	1.119	862	208	20	50	10		M
	327.8775	28:46	28:46	2	1.119	546	201	4	10	50	1.58(1.32-1.78)	
	PCB-93											RQM
	325.8804	28:58	29:00	1	1.126	2315	377	20	50	19		M
		Empc Correction				113	46	20	50	2		
	327.8775	28:56	29:00	-1	1.125	73	30	4	10	8	31.71(1.32-1.78)	
	PCB-100 (C93)											RQM
	325.8804	28:58	29:00	1	1.126	2315	377	20	50	19		M
		Empc Correction				113	46	20	50	2		
	327.8775	28:56	29:00	-1	1.125	73	30	4	10	8	31.71(1.32-1.78)	
	PCB-98											
	325.8804	29:04						20	50			
	327.8775	29:04						4	10			
	PCB-102 (C98)											
	325.8804	29:04						20	50			
	327.8775	29:04						4	10			
	PCB-88											
	325.8804	29:39						20	50			
	327.8775	29:39						4	10			
	PCB-91 (C88)											
	325.8804	29:39						20	50			
	327.8775	29:39						4	10			
	PCB-84											RQU
	325.8804	29:54						20	50			
	327.8775	29:54						4	10			
	PCB-89											RQ
	325.8804	30:15	30:21	-4	1.176	430	250	20	50	13		
		Empc Correction				249	117	20	50	6		
	327.8775	30:14	30:21	-4	1.175	161	76	4	10	19	2.67(1.32-1.78)	
	PCB-121											RQ
	325.8804	30:42	30:45	0	1.194	223	88	20	50	4		
	327.8775	30:41	30:45	0	1.193	431	125	4	10	31	0.52(1.32-1.78)	
		Empc Correction				143	56	4	10	14		
	PCB-92											
	325.8804	31:04						20	50			
	327.8775	31:04						4	10			
	PCB-90											
	325.8804	31:42						20	50			
	327.8775	31:42						4	10			
	PCB-101 (C90)											
	325.8804	31:42						20	50			
	327.8775	31:42						4	10			
	PCB-113 (C90)											
	325.8804	31:42						20	50			
	327.8775	31:42						4	10			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-83											
325.8804	32:17						20	50			
327.8775	32:17						4	10			
PCB-99 (C83)											
325.8804	32:17						20	50			
327.8775	32:17						4	10			
PCB-112											
325.8804	32:25						20	50			
327.8775	32:25						4	10			
PCB-86											
325.8804	32:43	32:41	-1	1.272	5551	478	20	50	24		RQM
	Empc Correction				1852	644	20	50	32		
327.8775	32:41	32:41	-3	1.271	1195	416	4	10	104	4.65(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:43	32:41	-1	1.272	5551	478	20	50	24		RQM
	Empc Correction				1852	644	20	50	32		
327.8775	32:41	32:41	-3	1.271	1195	416	4	10	104	4.65(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:43	32:41	-1	1.272	5551	478	20	50	24		RQM
	Empc Correction				1852	644	20	50	32		
327.8775	32:41	32:41	-3	1.271	1195	416	4	10	104	4.65(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:43	32:41	-1	1.272	5551	478	20	50	24		RQM
	Empc Correction				1852	644	20	50	32		
327.8775	32:41	32:41	-3	1.271	1195	416	4	10	104	4.65(1.32-1.78)	M
PCB-119 (C86)											
325.8804	32:43	32:41	-1	1.272	5551	478	20	50	24		RQM
	Empc Correction				1852	644	20	50	32		
327.8775	32:41	32:41	-3	1.271	1195	416	4	10	104	4.65(1.32-1.78)	M
PCB-125 (C86)											
325.8804	32:43	32:41	-1	1.272	5551	478	20	50	24		RQM
	Empc Correction				1852	644	20	50	32		
327.8775	32:41	32:41	-3	1.271	1195	416	4	10	104	4.65(1.32-1.78)	M
PCB-85											
325.8804	33:31						20	50			RQU
327.8775	33:31						4	10			
PCB-116 (C85)											
325.8804	33:31						20	50			RQU
327.8775	33:31						4	10			
PCB-117 (C85)											
325.8804	33:31						20	50			RQU
327.8775	33:31						4	10			
PCB-110											
325.8804	33:36	33:43	-4	1.306	2661	438	20	50	22		RQ
	Empc Correction				1799	375	20	50	19		
327.8775	33:39	33:43	0	1.308	1161	242	4	10	61	2.29(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-115 (C110)											RQ
325.8804	33:36	33:43	-4	1.306	2661	438	20	50	22		
	Empc Correction				1799	375	20	50	19		
327.8775	33:39	33:43	0	1.308	1161	242	4	10	61	2.29(1.32-1.78)	
PCB-82											RQ
325.8804	33:55	34:01	-2	1.319	1082	363	20	50	18		
	Empc Correction				731	337	20	50	17		
327.8775	33:58	34:01	0	1.321	472	218	4	10	55	2.29(1.32-1.78)	
PCB-111											
325.8804	34:23						20	50			
327.8775	34:23						4	10			
PCB-120											
325.8804	34:51						20	50			
327.8775	34:51						4	10			
PCB-108											
325.8804	35:53						83	207			
327.8775	35:53						42	105			
PCB-124 (C108)											
325.8804	35:53						83	207			
327.8775	35:53						42	105			
PCB-107											
325.8804	36:14						83	207			
327.8775	36:14						42	105			
PCB-123											
325.8804	36:16						83	207			
327.8775	36:16						42	105			
PCB-106											
325.8804	36:23						83	207			
327.8775	36:23						42	105			
PCB-118											RQM
325.8804	36:35	36:35	-2	1.000	3711	662	83	207	8		M
	Empc Correction				1839	381	83	207	5		
327.8775	36:35	36:35	-2	1.000	1187	246	42	105	6	3.13(1.32-1.78)	
PCB-122											
325.8804	36:57						83	207			
327.8775	36:57						42	105			
PCB-114											
325.8804	37:09						83	207			
327.8775	37:09						42	105			
PCB-105											
325.8804	37:48						83	207			
327.8775	37:48						42	105			
PCB-127											
325.8804	39:16						83	207			
327.8775	39:16						42	105			

Signal	RT (min.)	Adj RT (min.)	Δ Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-126											
325.8804	40:52						83	207			
327.8775	40:52						42	105			
PCB-155L											
371.8817	31:22	32:40	-2	0.790	1817596	373875	121	302	3090		
373.8788	31:22	32:40	-2	0.790	1411689	293797	90	225	3264	1.29(1.05-1.43)	
PCB-153L											
371.8817	38:26	38:28	-1	0.901	53585	10956	138	345	79		
373.8788	38:27	38:28	-1	0.901	37860	7097	1184	2960	6	1.42(1.05-1.43)	
PCB-138L											
371.8817	39:41	39:42	-1		2857914	551447	138	345	3996		
373.8788	39:41	39:42	-1		2234143	431278	1184	2960	364	1.28(1.05-1.43)	
PCB-159L											
371.8817	41:55						138	345			
373.8788	41:55						1184	2960			
PCB-167L											
371.8817	42:41	44:25	-1	1.075	3170951	604829	138	345	4383		
373.8788	42:41	44:25	-1	1.075	2482021	482371	1184	2960	407	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:51	45:38	-1	1.105	6402350	815726	138	345	5911		
373.8788	43:50	45:38	-2	1.105	4985254	629827	1184	2960	532	1.28(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:51	45:38	-1	1.105	6402350	815726	138	345	5911		
373.8788	43:50	45:38	-2	1.105	4985254	629827	1184	2960	532	1.28(1.05-1.43)	
PCB-169L											
371.8817	47:04	48:59	-1	1.186	3227300	604262	138	345	4379		
373.8788	47:04	48:59	-1	1.186	2547831	463555	1184	2960	392	1.27(1.05-1.43)	
PCB-155											
359.8415	31:24	31:25	-1	1.001	370	155	4	10	39		RQ
361.8385	31:23	31:25	-2	1.000	377	199	5	12	40	0.98(1.05-1.43)	
Empc Correction					298	124	5	12	25		
PCB-152											
359.8415	31:37						4	10			
361.8385	31:37						5	12			
PCB-150											
359.8415	31:48						4	10			
361.8385	31:48						5	12			
PCB-136											
359.8415	32:10						4	10			
361.8385	32:10						5	12			
PCB-145											
359.8415	32:28						4	10			
361.8385	32:28						5	12			
PCB-148											
359.8415	33:55						4	10			
361.8385	33:55						5	12			



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-135											
359.8415	34:31						4	10			
361.8385	34:31						5	12			
PCB-151 (C135)											
359.8415	34:31						4	10			
361.8385	34:31						5	12			
PCB-154											
359.8415	34:46						4	10			
361.8385	34:46						5	12			
PCB-144											
359.8415	35:05						4	10			
361.8385	35:05						5	12			
PCB-147											
359.8415	35:26	35:24	-3	1.129	1402	275	8	20	34		M
361.8385	35:24	35:24	-5	1.129	1280	395	39	97	10	1.10(1.05-1.43)	M
PCB-149 (C147)											
359.8415	35:26	35:24	-3	1.129	1402	275	8	20	34		M
361.8385	35:24	35:24	-5	1.129	1280	395	39	97	10	1.10(1.05-1.43)	M
PCB-134											
359.8415	35:45						8	20			
361.8385	35:45						39	97			
PCB-143 (C134)											
359.8415	35:45						8	20			
361.8385	35:45						39	97			
PCB-139											
359.8415	36:04						8	20			
361.8385	36:04						39	97			
PCB-140 (C139)											
359.8415	36:04						8	20			
361.8385	36:04						39	97			
PCB-131											
359.8415	36:14						8	20			
361.8385	36:14						39	97			
PCB-142											
359.8415	36:23						8	20			
361.8385	36:23						39	97			
PCB-132											
359.8415	36:45						8	20			
361.8385	36:45						39	97			
PCB-133											
359.8415	37:14						8	20			
361.8385	37:14						39	97			
PCB-165											
359.8415	37:38						8	20			
361.8385	37:38						39	97			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-146											
359.8415	37:51						8	20			
361.8385	37:51						39	97			
PCB-161											
359.8415	38:00						8	20			RQU
361.8385	38:00						39	97			
PCB-153											
359.8415	38:31						8	20			
361.8385	38:31						39	97			
PCB-168 (C153)											
359.8415	38:31						8	20			
361.8385	38:31						39	97			
PCB-141											
359.8415	38:41						8	20			
361.8385	38:41						39	97			
PCB-130											
359.8415	39:05						8	20			
361.8385	39:05						39	97			
PCB-137											
359.8415	39:19						8	20			
361.8385	39:19						39	97			
PCB-164											
359.8415	39:28	39:27	1	0.925	472	171	8	20	21		RQ
361.8385	39:23	39:27	-4	0.923	978	261	39	97	7	0.48(1.05-1.43)	
Empc Correction					380	137	39	97	4		
PCB-129											
359.8415	39:42	39:44	-3	0.930	1906	402	8	20	50		RQM
Empc Correction					1465	311	8	20	39		M
361.8385	39:44	39:44	-1	0.931	1182	251	39	97	6	1.61(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:42	39:44	-3	0.930	1906	402	8	20	50		RQM
Empc Correction					1465	311	8	20	39		M
361.8385	39:44	39:44	-1	0.931	1182	251	39	97	6	1.61(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:42	39:44	-3	0.930	1906	402	8	20	50		RQM
Empc Correction					1465	311	8	20	39		M
361.8385	39:44	39:44	-1	0.931	1182	251	39	97	6	1.61(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:42	39:44	-3	0.930	1906	402	8	20	50		RQM
Empc Correction					1465	311	8	20	39		M
361.8385	39:44	39:44	-1	0.931	1182	251	39	97	6	1.61(1.05-1.43)	M
PCB-158											
359.8415	40:07						8	20			
361.8385	40:07						39	97			
PCB-128											
359.8415	41:01	41:01	3	0.961	200	79	8	20	10		RQM
361.8385	41:01	41:01	3	0.961	484	188	39	97	5	0.41(1.05-1.43)	M
Empc Correction					161	63	39	97	2		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-166 (C128)											RQM
359.8415	41:01	41:01	3	0.961	200	79	8	20	10		
361.8385	41:01	41:01	3	0.961	484	188	39	97	5	0.41(1.05-1.43)	M
Empc Correction					161	63	39	97	2		
PCB-159											
359.8415	41:58						8	20			
361.8385	41:58						39	97			
PCB-162											
359.8415	42:14						8	20			
361.8385	42:14						39	97			
PCB-167											RQM
359.8415	42:43	42:43	-1	1.001	1225	425	8	20	53		M
Empc Correction					954	319	8	20	40		
361.8385	42:45	42:43	1	1.002	770	258	39	97	7	1.59(1.05-1.43)	
PCB-156											
359.8415	43:54						8	20			
361.8385	43:54						39	97			
PCB-157 (C156)											
359.8415	43:54						8	20			
361.8385	43:54						39	97			
PCB-169											RQM
359.8415	47:06	47:04	0	1.001	565	105	8	20	13		
361.8385	47:04	47:04	-2	1.000	825	302	39	97	8	0.68(1.05-1.43)	M
Empc Correction					455	84	39	97	2		
PCB-188L											
405.8428	37:05	37:38	-1	0.820	2061722	407952	81	202	5036		
407.8398	37:05	37:38	-1	0.820	1970216	385788	47	117	8208	1.05(0.89-1.21)	
PCB-178L											
405.8428	40:09	40:44	-1	0.888	1646311	327923	81	202	4048		
407.8398	40:09	40:44	-1	0.888	1558290	304390	47	117	6476	1.06(0.89-1.21)	
PCB-180L											
405.8428	45:13	45:14	-1		2050998	394907	81	202	4875		
407.8398	45:13	45:14	-1		1916044	365952	47	117	7786	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:29	47:09	-1	1.028	1512099	277231	81	202	3423		
407.8398	46:29	47:09	-1	1.028	1435010	274223	47	117	5835	1.05(0.89-1.21)	
PCB-189L											
405.8428	49:35	50:19	-1	1.097	4520996	849067	1552	3880	547		
407.8398	49:35	50:19	-1	1.097	4250533	785975	1063	2657	739	1.06(0.89-1.21)	
PCB-188											RQ
393.8025	37:07	37:08	-1	1.001	99	54	1	2	54		
Empc Correction					23	9	1	2	9		
395.7995	37:07	37:08	-1	1.001	22	9	1	2	9	4.50(0.89-1.21)	
PCB-179											
393.8025	37:28						1	2			
395.7995	37:28						1	2			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-184											
393.8025	37:58						1	2			
395.7995	37:58						1	2			
PCB-176											
393.8025	38:21						1	2			
395.7995	38:21						1	2			
PCB-186											
393.8025	38:47						1	2			
395.7995	38:47						1	2			
PCB-178											
393.8025	40:10						1	2			
395.7995	40:10						1	2			
PCB-175											
393.8025	40:47						1	2			
395.7995	40:47						1	2			
PCB-187											
393.8025	41:04						1	2			
395.7995	41:04						1	2			
PCB-182											
393.8025	41:15						1	2			
395.7995	41:15						1	2			
PCB-183											
393.8025	41:40	41:40	-1	1.124	1974	605	1	2	605		RQM
395.7995	41:42	41:40	0	1.124	2296	336	1	2	336	0.86(0.89-1.21)	M
Empc Correction					1880	576	1	2	576		
PCB-185 (C183)											
393.8025	41:40	41:40	-1	1.124	1974	605	1	2	605		RQM
395.7995	41:42	41:40	0	1.124	2296	336	1	2	336	0.86(0.89-1.21)	M
Empc Correction					1880	576	1	2	576		
PCB-174											
393.8025	41:56						1	2			
395.7995	41:56						1	2			
PCB-177											
393.8025	42:23						1	2			
395.7995	42:23						1	2			
PCB-181											
393.8025	42:44						1	2			
395.7995	42:44						1	2			
PCB-171											
393.8025	43:00	42:59	1	1.160	114	55	1	2	55		RQ
Empc Correction					59	33	1	2	33		
395.7995	43:01	42:59	2	1.160	57	32	1	2	32	2.00(0.89-1.21)	
PCB-173 (C171)											
393.8025	43:00	42:59	1	1.160	114	55	1	2	55		RQ
Empc Correction					59	33	1	2	33		
395.7995	43:01	42:59	2	1.160	57	32	1	2	32	2.00(0.89-1.21)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:36						1	2			
395.7995	44:36						1	2			
PCB-192											
393.8025	44:51	44:54	-3	0.904	223	109	1	2	109		RQ
395.7995	44:49	44:54	-4	0.904	406	196	1	2	196	0.55(0.89-1.21)	
Empc Correction					212	103	1	2	103		
PCB-180											
393.8025	45:14	45:14	0	0.912	1151	274	1	2	274		M
395.7995	45:12	45:14	-2	0.912	1010	262	1	2	262	1.14(0.89-1.21)	M
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	1151	274	1	2	274		M
395.7995	45:12	45:14	-2	0.912	1010	262	1	2	262	1.14(0.89-1.21)	M
PCB-191											
393.8025	45:37	45:37	0	0.920	838	340	1	2	340		RQ
Empc Correction					690	212	1	2	212		
395.7995	45:35	45:37	-2	0.919	658	202	1	2	202	1.27(0.89-1.21)	
PCB-170											
393.8025	46:31						1	2			
395.7995	46:31						1	2			
PCB-190											
393.8025	46:59	47:02	-3	0.948	142	43	1	2	43		RQ
395.7995	47:01	47:02	-1	0.948	440	176	1	2	176	0.32(0.89-1.21)	
Empc Correction					135	40	1	2	40		
PCB-189											
393.8025	49:36						38	95			
395.7995	49:36						20	50			
PCB-202L											
439.8038	42:27	42:29	-1	0.821	1510860	294082	74	185	3974		
441.8008	42:27	42:29	-1	0.821	1697974	326182	69	172	4727	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:42	51:43	-1		2878561	534436	196	490	2727		
441.8008	51:42	51:43	-1		3094285	584930	164	410	3567	0.93(0.76-1.02)	
PCB-205L											
439.8038	52:09	52:11	-1	1.009	2980131	547513	196	490	2793		
441.8008	52:09	52:11	-1	1.009	3292218	609102	164	410	3714	0.91(0.76-1.02)	
PCB-202											
427.7635	42:29						3	7			
429.7606	42:29						3	7			
PCB-201											
427.7635	43:25						3	7			
429.7606	43:25						3	7			
PCB-204											
427.7635	44:03						3	7			
429.7606	44:03						3	7			

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-197											
427.7635	44:17						3	7			
429.7606	44:17						3	7			
PCB-200											
427.7635	44:25						3	7			
429.7606	44:25						3	7			
PCB-198											
427.7635	47:11						3	7			
429.7606	47:11						3	7			
PCB-199 (C198)											
427.7635	47:11						3	7			
429.7606	47:11						3	7			
PCB-196											
427.7635	47:51						3	7			
429.7606	47:51						3	7			
PCB-203											
427.7635	48:05	48:04	0	0.922	324	106	3	7	35		RQ
	Empc Correction				165	91	3	7	30		
429.7606	48:02	48:04	-2	0.921	186	103	3	7	34	1.74(0.76-1.02)	
PCB-195											
427.7635	49:22						12	30			
429.7606	49:22						12	30			
PCB-194											
427.7635	51:44						12	30			
429.7606	51:44						12	30			
PCB-205											
427.7635	52:09	52:12	-3	1.000	918	189	12	30	16		
429.7606	52:13	52:12	1	1.001	1049	258	12	30	22	0.88(0.76-1.02)	
PCB-208L											
473.7648	49:07	49:08	-2	0.950	2163214	405117	334	835	1213		
475.7619	49:07	49:08	-2	0.950	2731112	514617	422	1055	1219	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:55	53:56	-1	1.043	1573791	288036	334	835	862		
475.7619	53:55	53:56	-1	1.043	2032355	379841	422	1055	900	0.77(0.65-0.89)	
PCB-208											
461.7246	49:08						226	565			
463.7216	49:08						121	302			
PCB-207											
461.7246	50:04						226	565			
463.7216	50:04						121	302			
PCB-206											
461.7246	53:56						226	565			
463.7216	53:56						121	302			
PCB-209L											
507.7258	55:32	55:33	-1	1.074	1462083	262305	87	217	3015		
509.7229	55:32	55:33	-1	1.074	2031011	360792	106	265	3404	0.72(0.59-0.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
DCB Decachlorobiphenyl											RQM
495.6856	55:33	55:33	-2	1.000	532	229	6	15	38		M
497.6826	55:33	55:33	-2	1.000	1273	451	1	2	451	0.42(0.59-0.79)	
Empc Correction					771	331	1	2	331		

PCB-70L (PRC)

0.0

PCB-111L (PRC)

0.0

PCB-141L (PRC)

0.0

PCB-8L (PRC)

0.0

PCB-47L (PRC)

0.0

PCB-28L (PRC)

0.0

PCB-182L (PRC)

0.0

PCB-80L (PRC)

0.0

### QC Flag Legend

#### Processing Flags

R - Failed Signal Ratio Test

Q - EMPC-Estimated Max. Possible Conc.

#### Review Flags

M - Manually Integrated

U - Marked Undetected

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

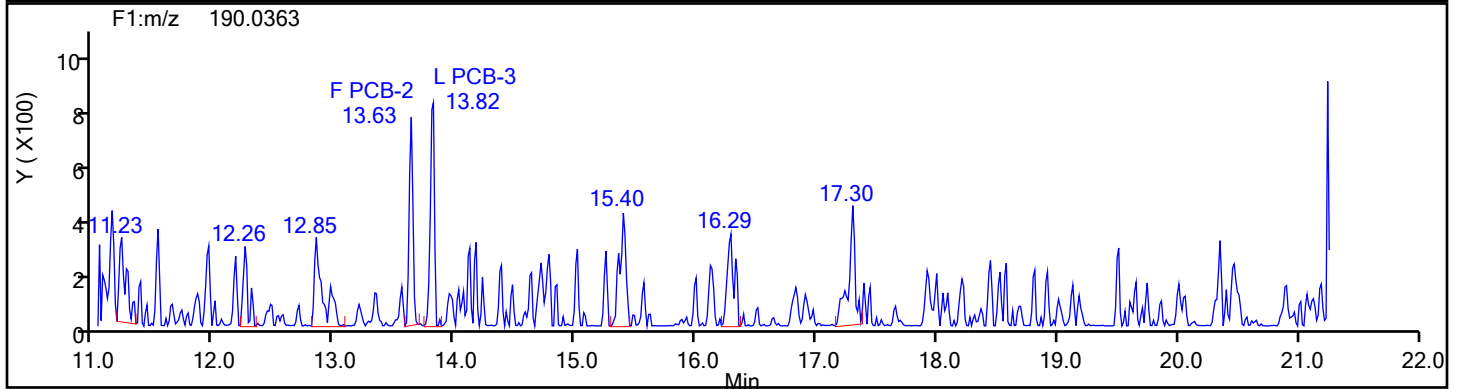
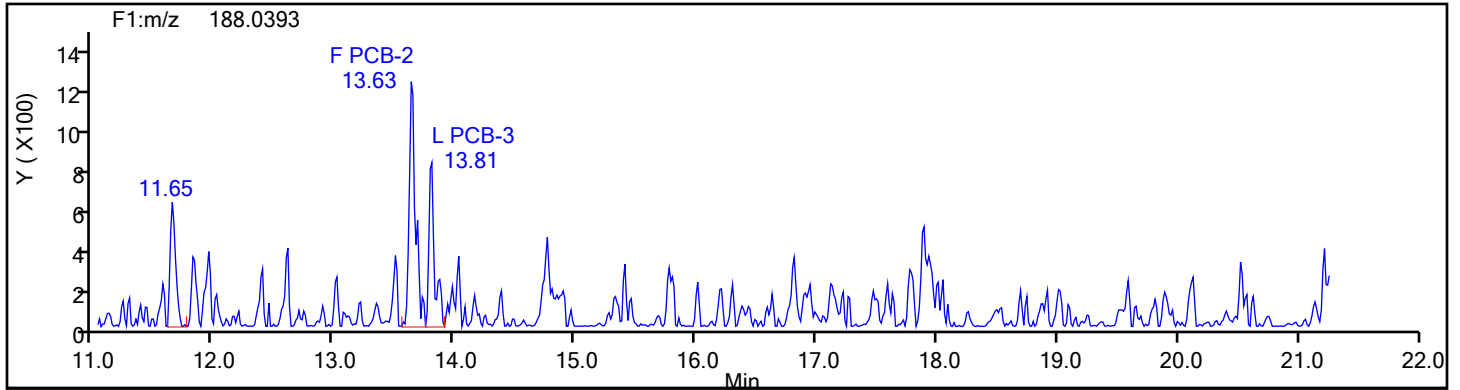
Worklist#: 88205

Sample Line#: 8

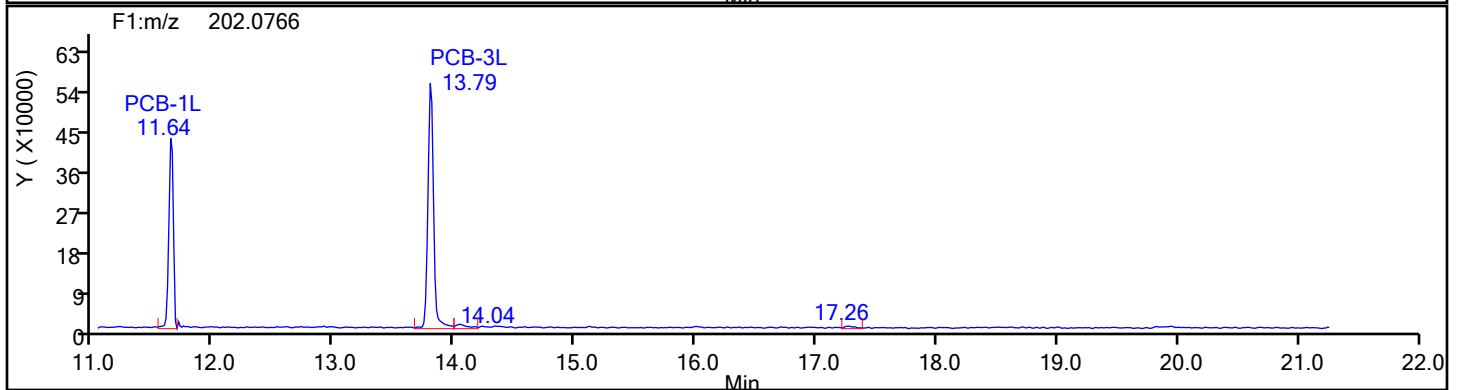
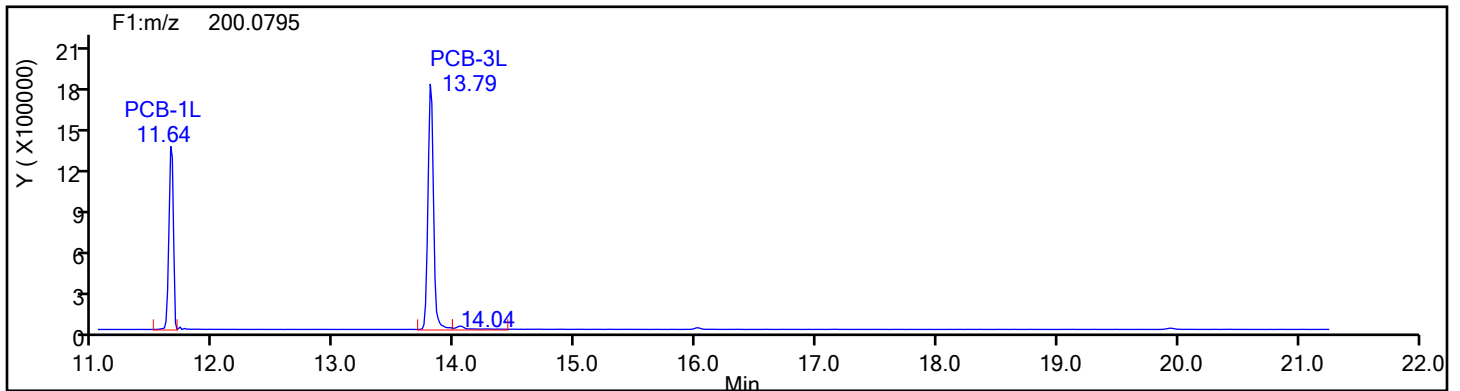
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

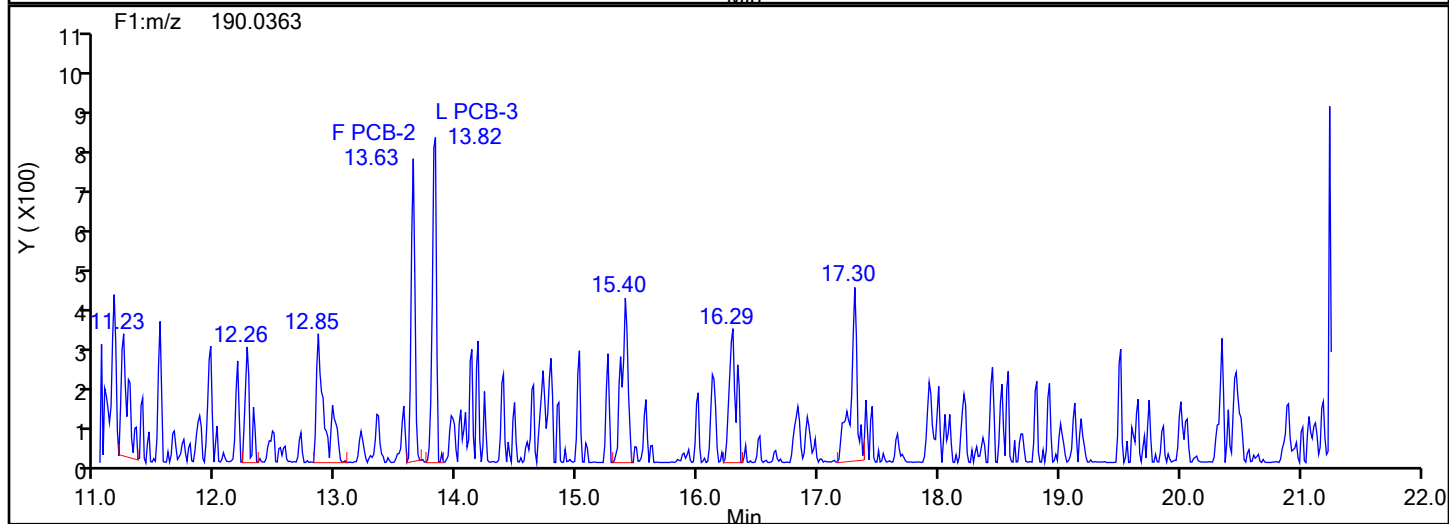
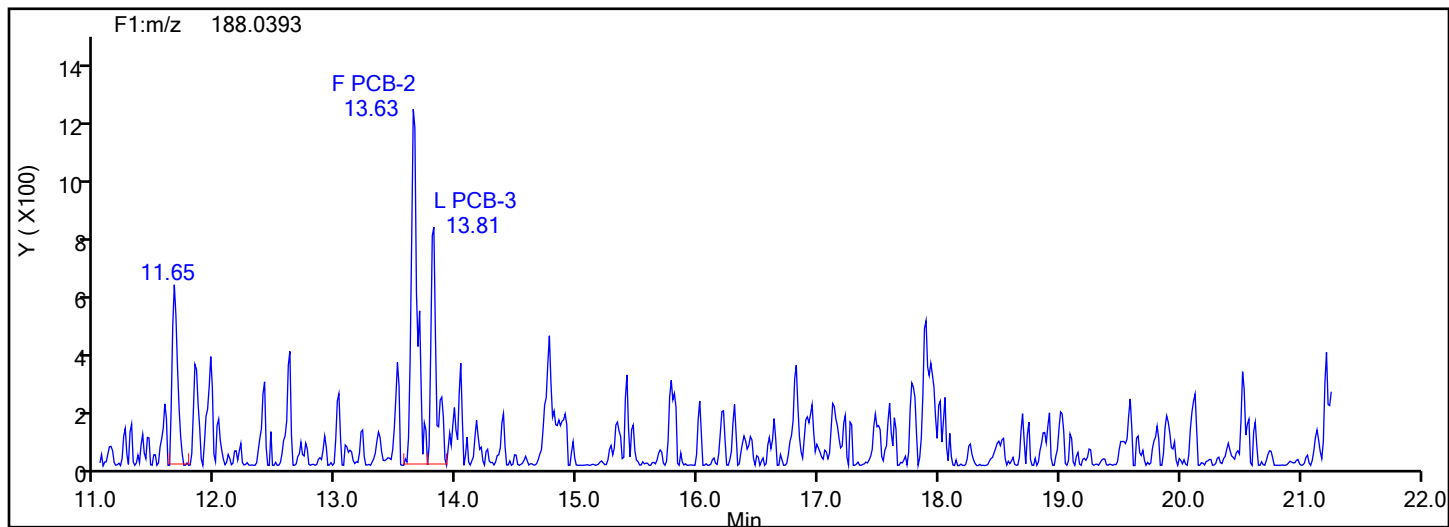
Worklist#: 88205

Sample Line#: 8

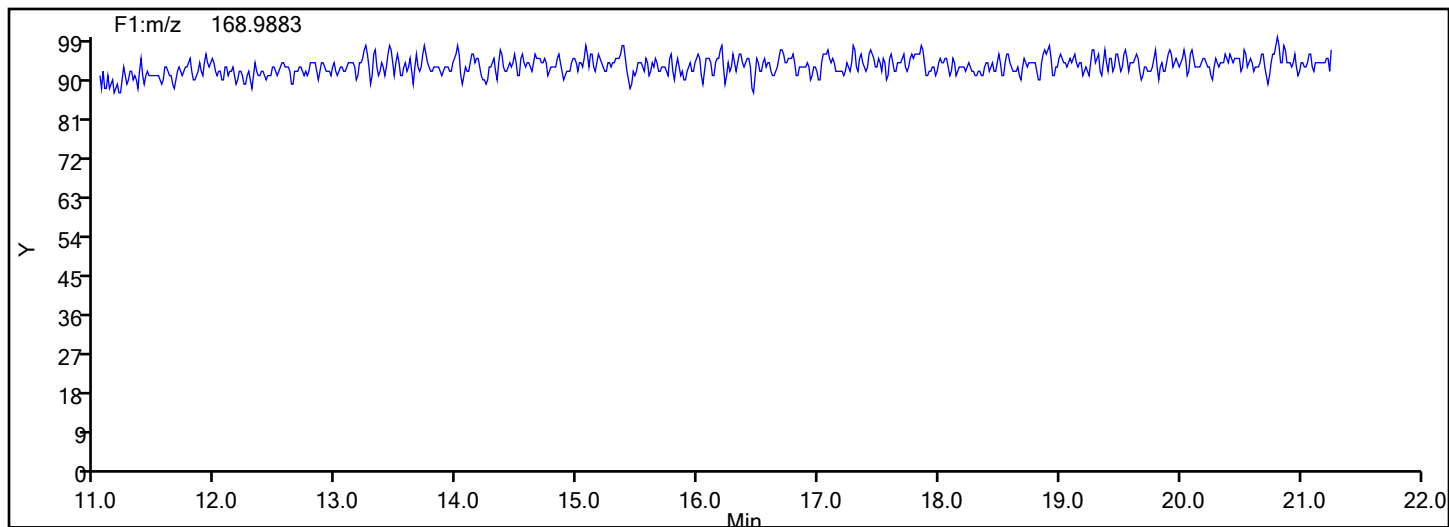
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

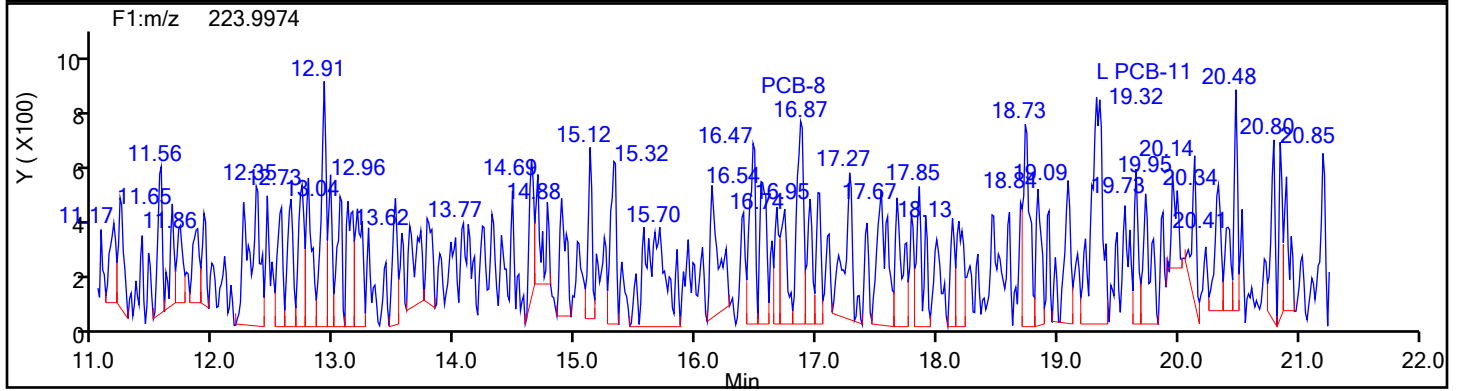
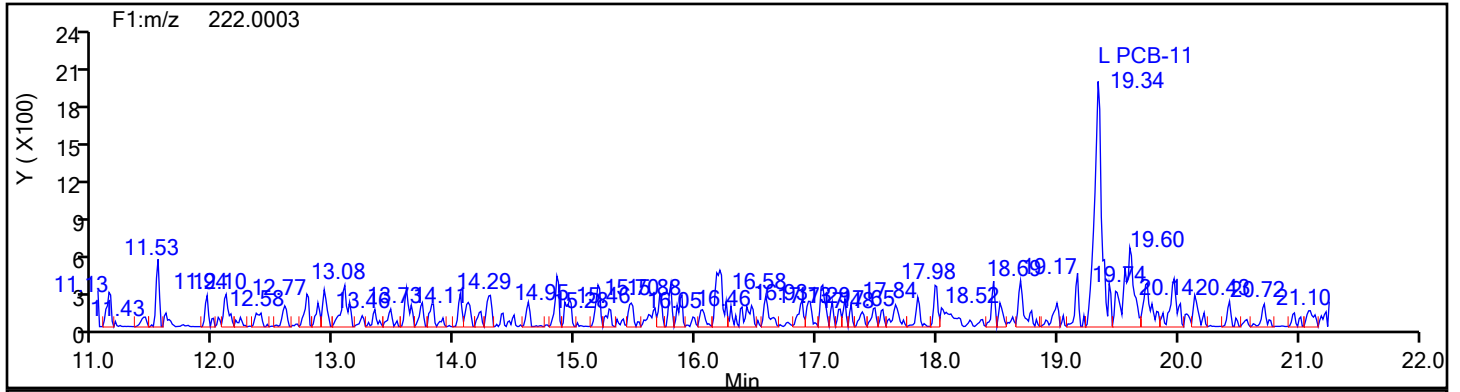
Worklist#: 88205

Sample Line#: 8

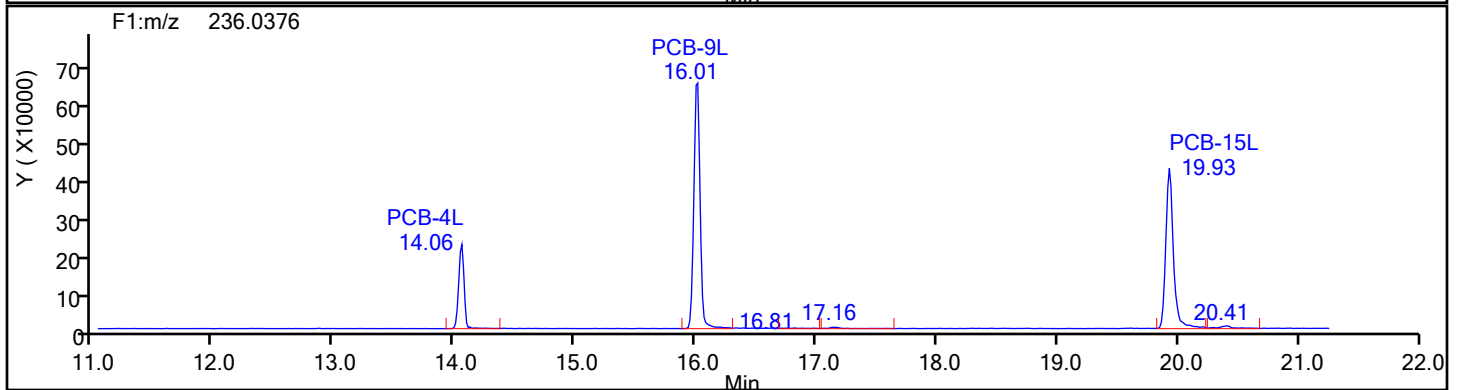
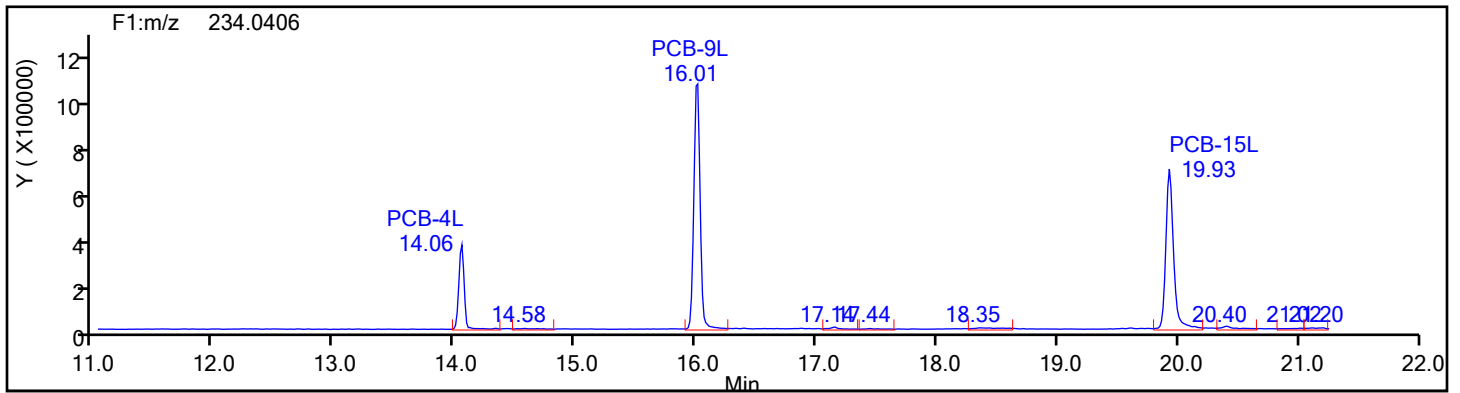
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

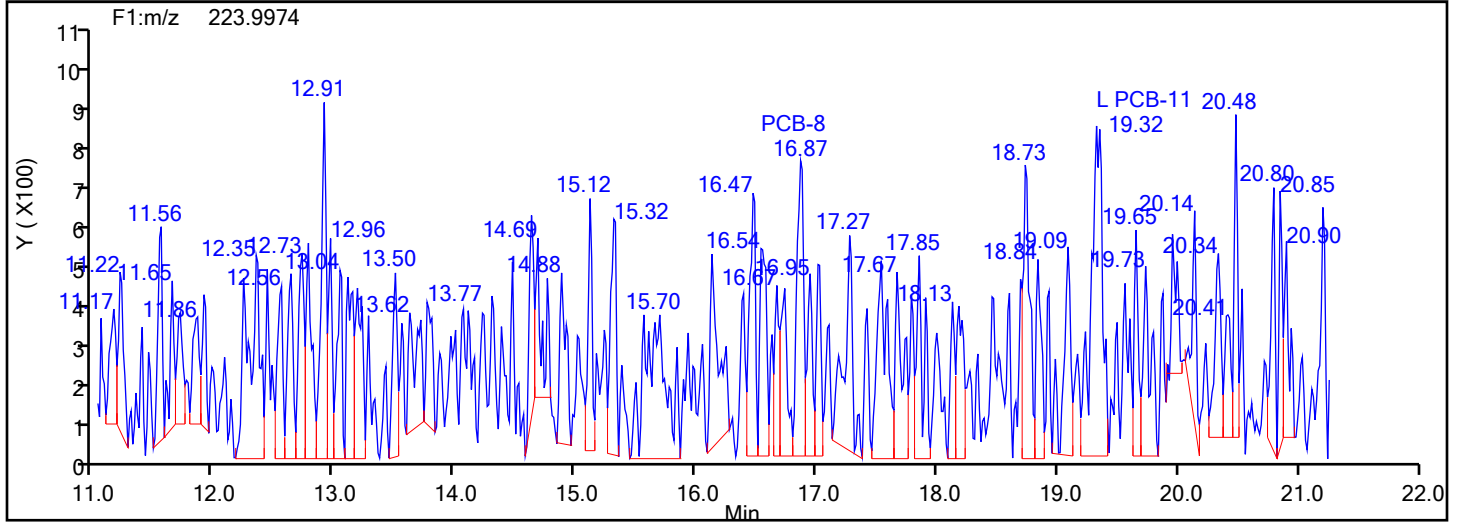
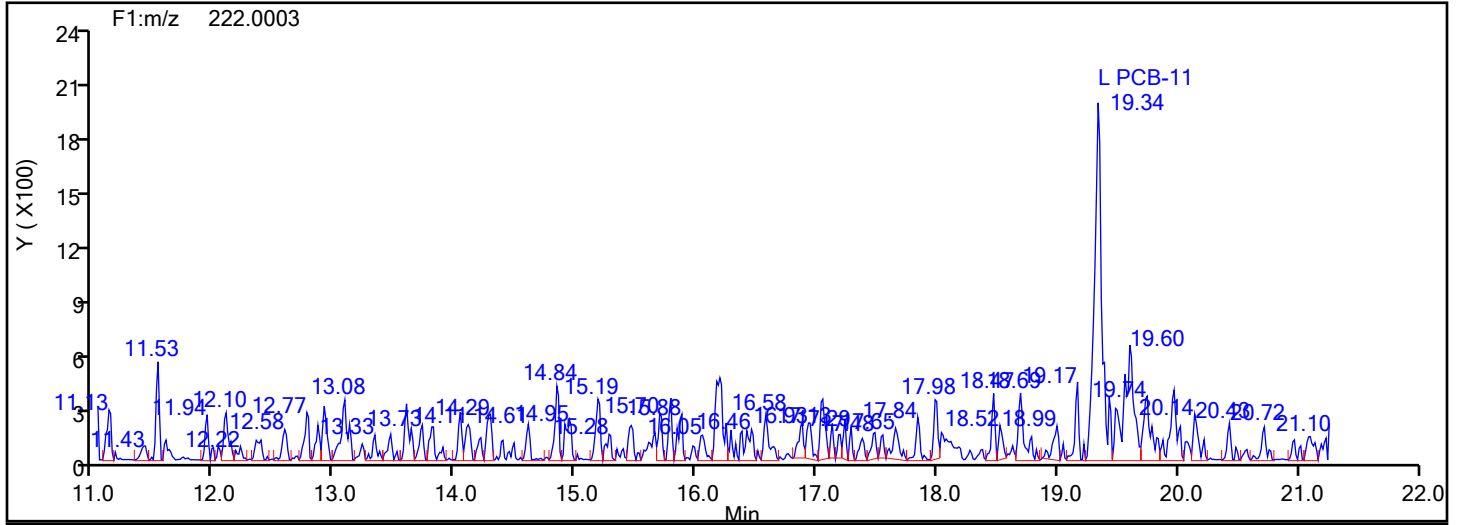
Worklist#: 88205

Sample Line#: 8

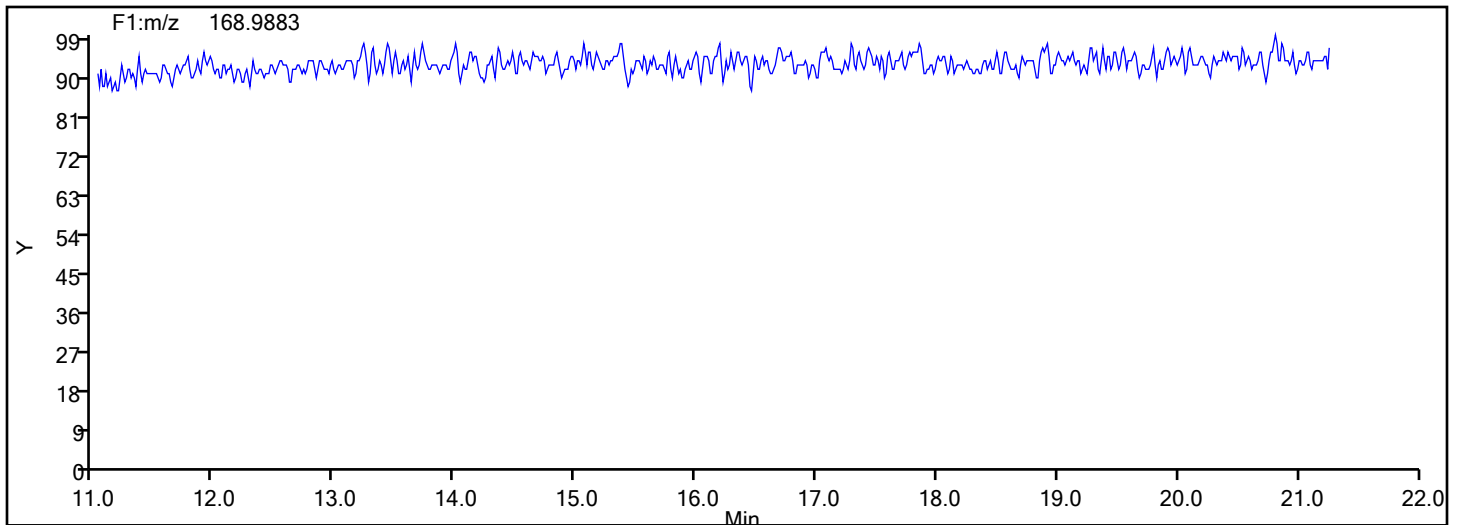
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Instrument ID: D2D

Lims ID: MB 140-87624/21-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

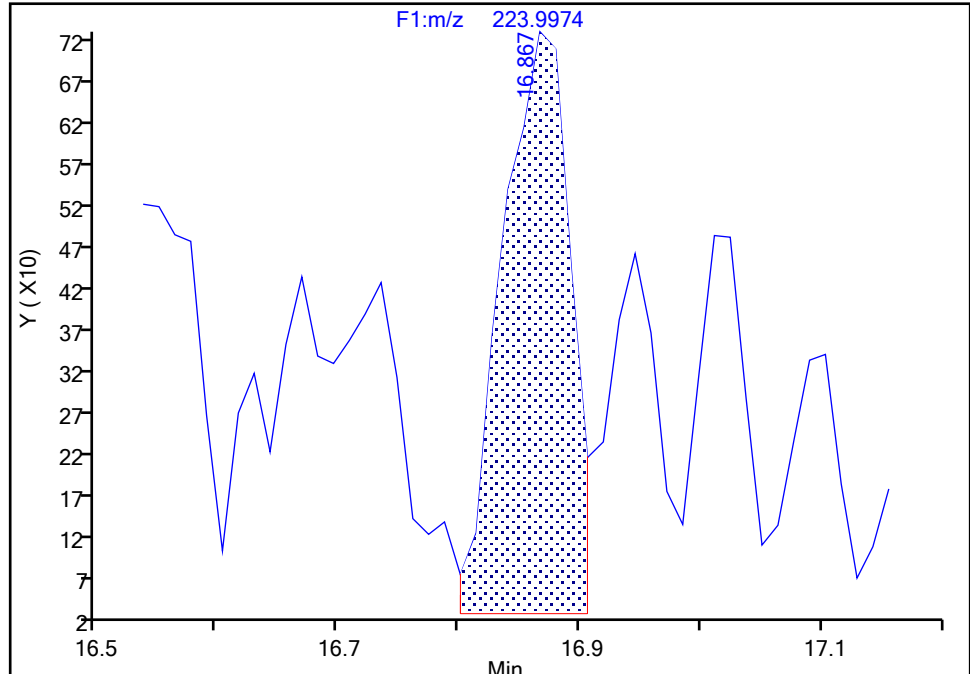
F1(11.07 :21.70 )

**PCB-8, CAS: 34883-43-7**

Signal: 2

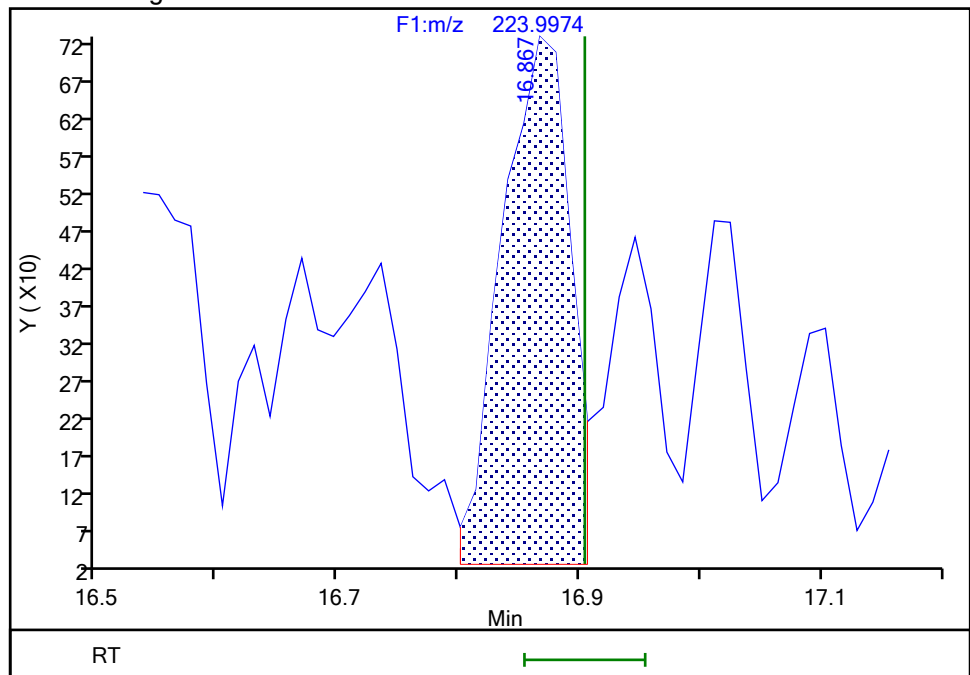
RT: 16.87  
Area: 2736  
Amount: 0.061459  
Amount Units: pg/ul

## Processing Integration Results



RT: 16.87  
Area: 2736  
Amount: 0.061459  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:35:28 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

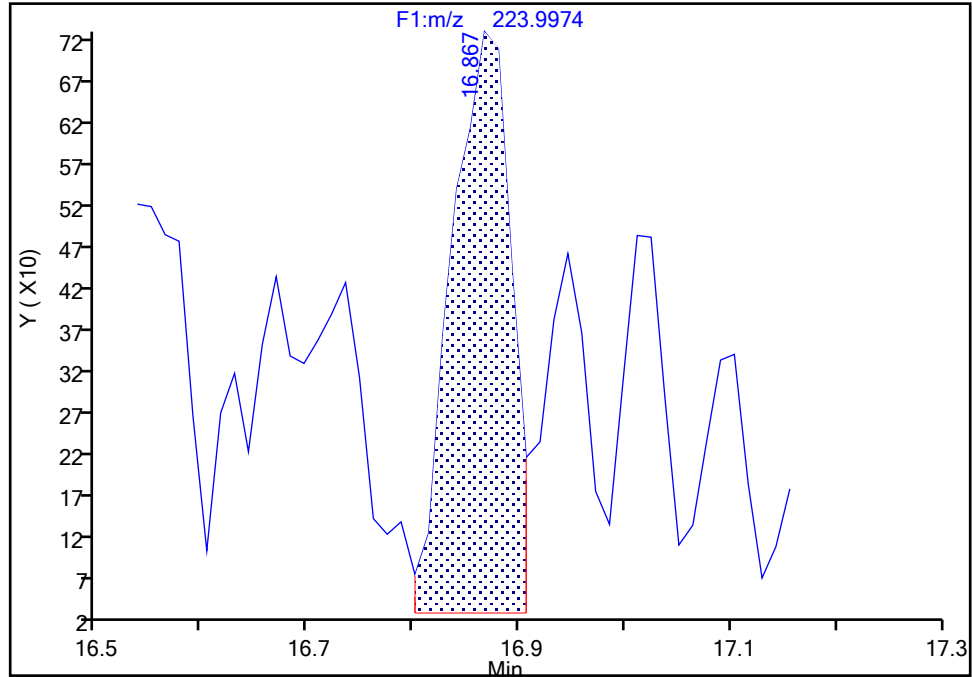
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d  
Injection Date: 28-Jun-2024 02:59:00 Instrument ID: D2D  
Lims ID: MB 140-87624/21-B  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F1(11.07 :21.70 )

**PCB-8, CAS: 34883-43-7**

Signal: 3

RT: 16.88  
Area: 3319  
Amount: 0.061459  
Amount Units: pg/ul

## Processing Integration Results



## Manual Integration Results

RT: 16.88  
Area: 3319  
Amount: 0.061459  
Amount Units: pg/ul

Reviewer: P0IK, 28-Jun-2024 11:35:28 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

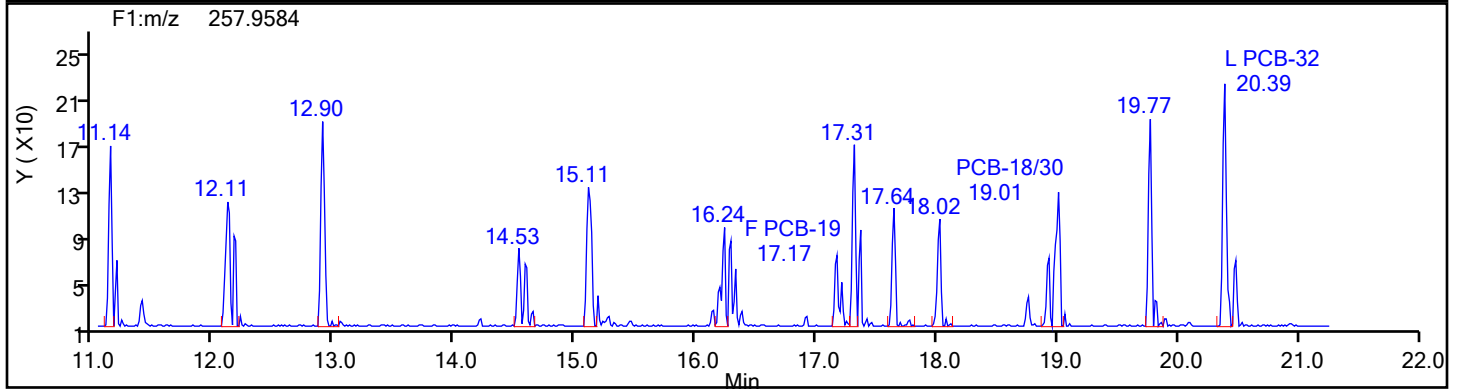
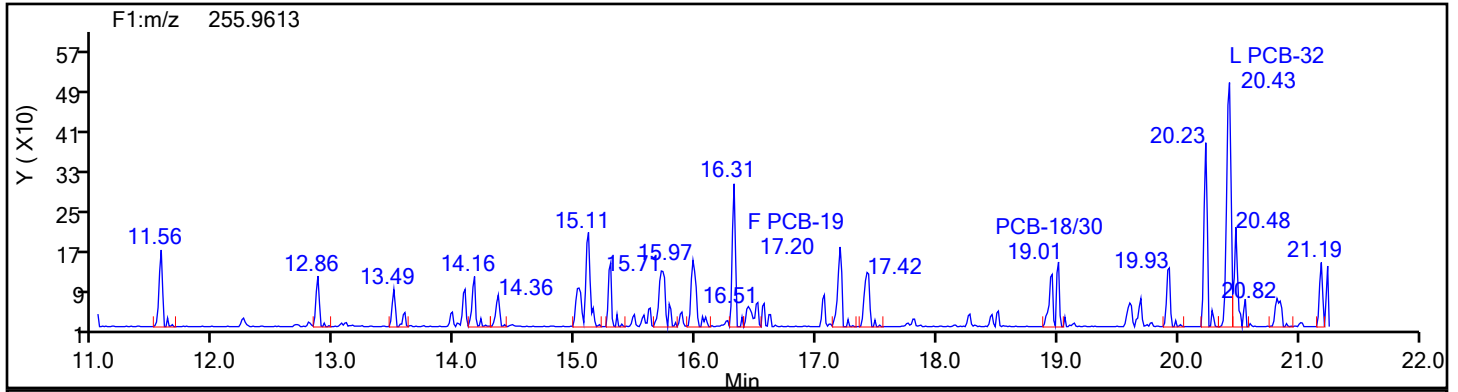
Worklist#: 88205

Sample Line#: 8

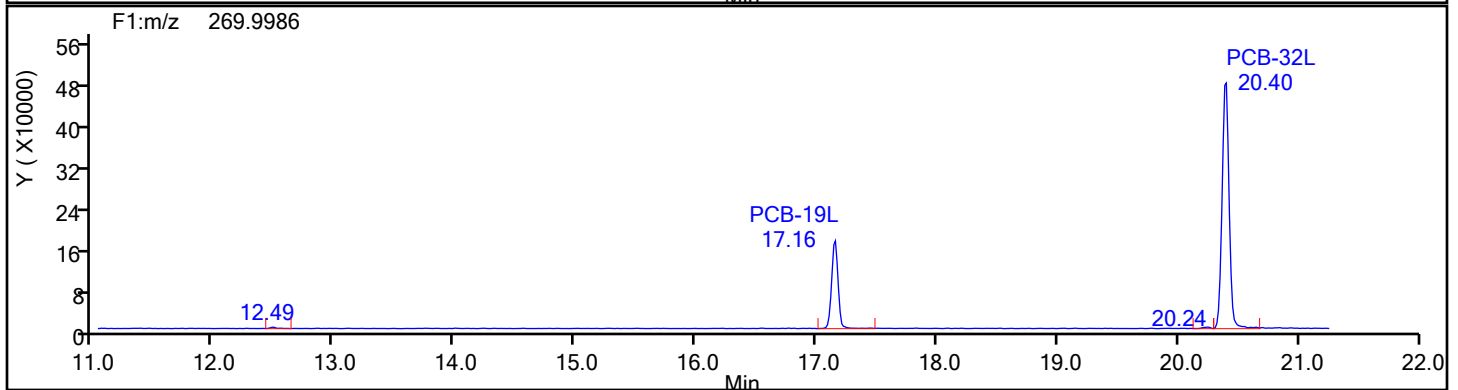
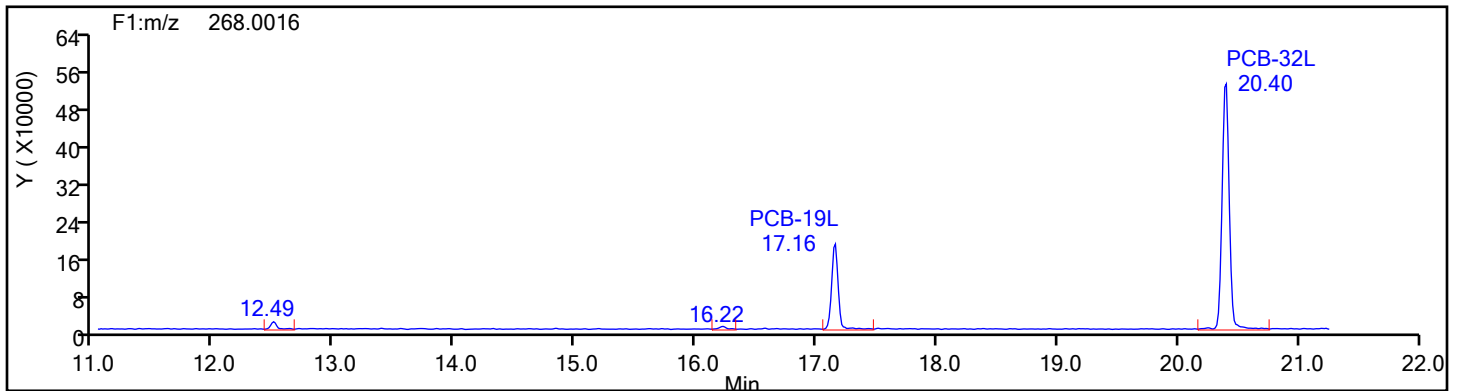
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

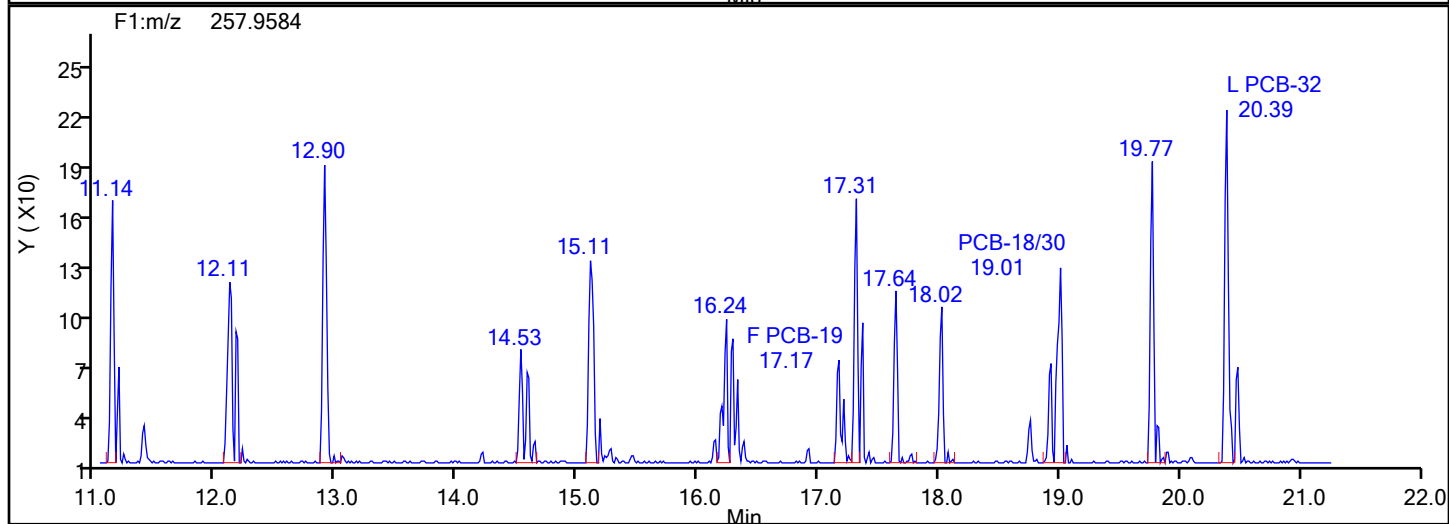
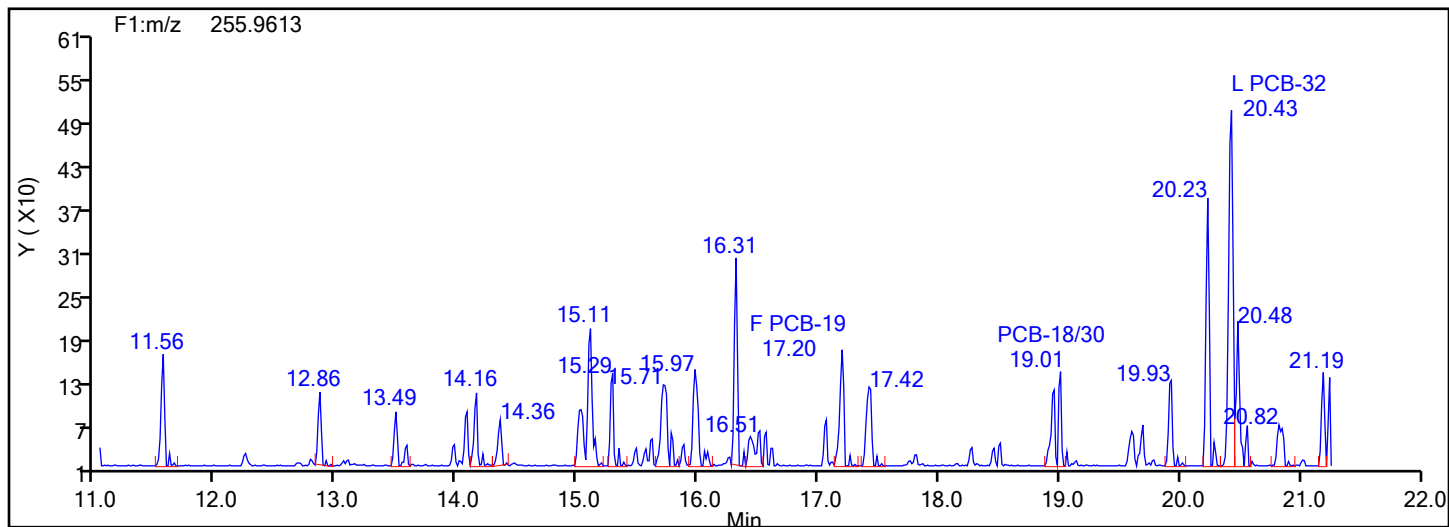
Limit Group: HR - EPA 23 PCB ICAL

Client ID:

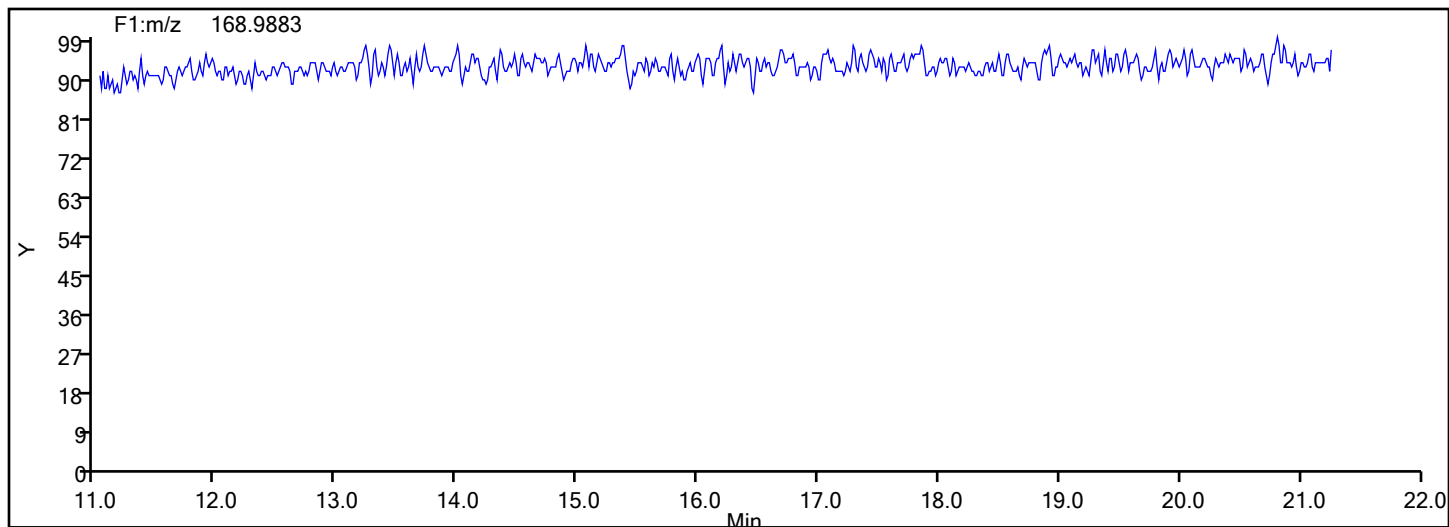
Sample Line#: 8

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Instrument ID: D2D

Lims ID: MB 140-87624/21-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

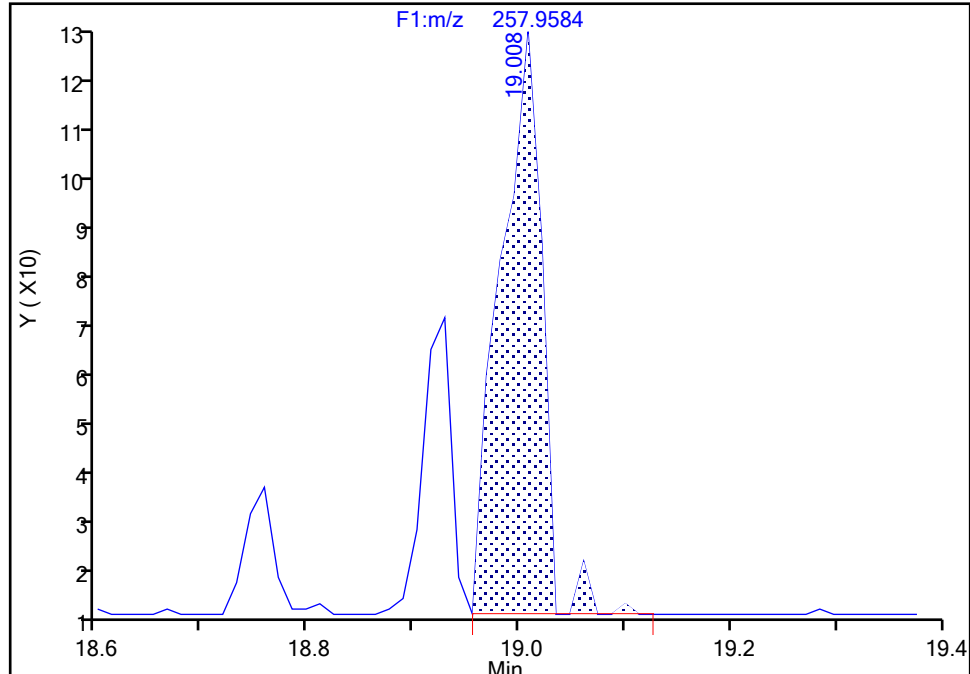
F1(11.07 :21.70 )

**PCB-18/30, CAS: STL01798**

Signal: 2

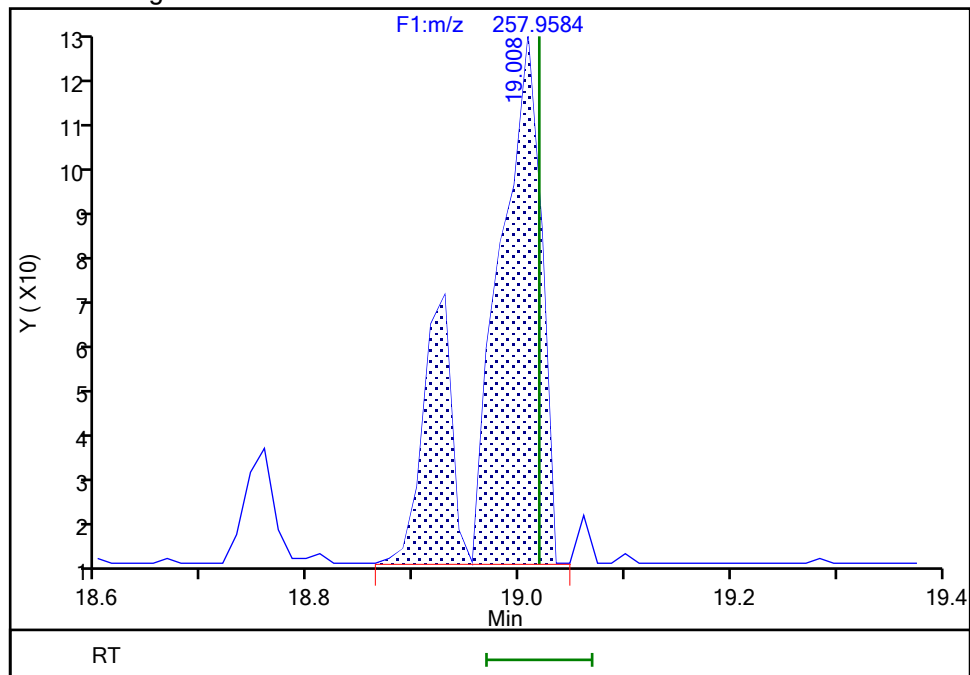
RT: 19.01  
Area: 301  
Amount: 0.032119  
Amount Units: pg/ul

## Processing Integration Results



RT: 19.01  
Area: 397  
Amount: 0.036225  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:36:10 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

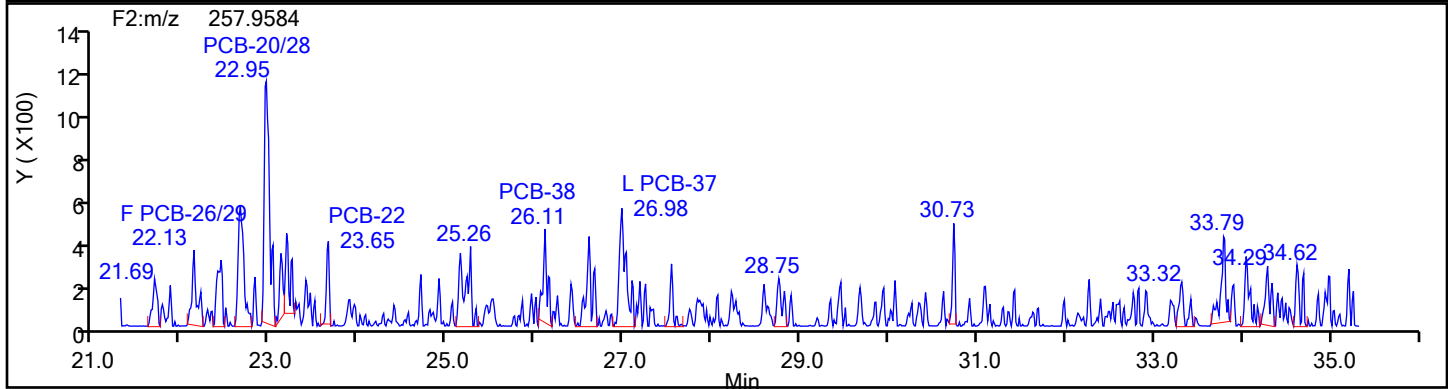
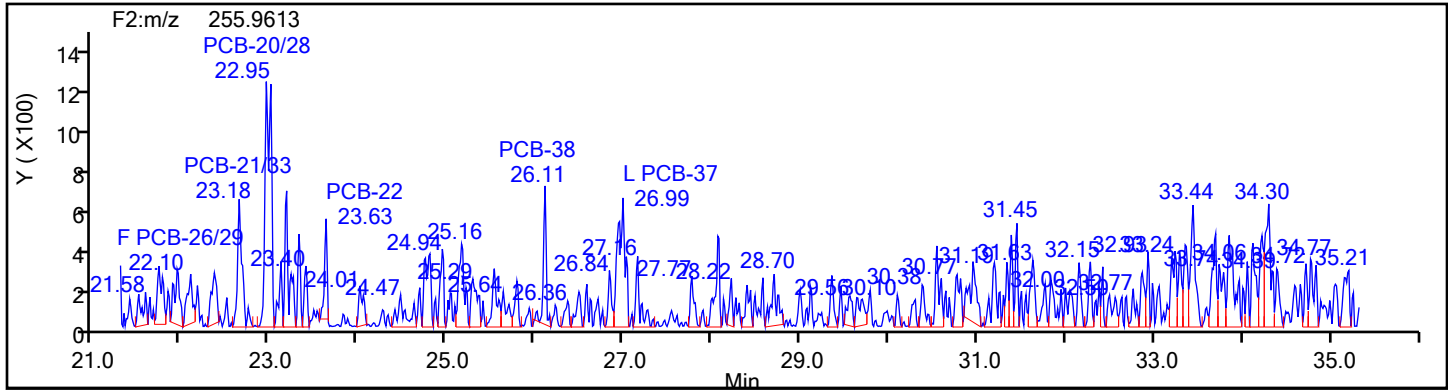
Worklist#: 88205

Sample Line#: 8

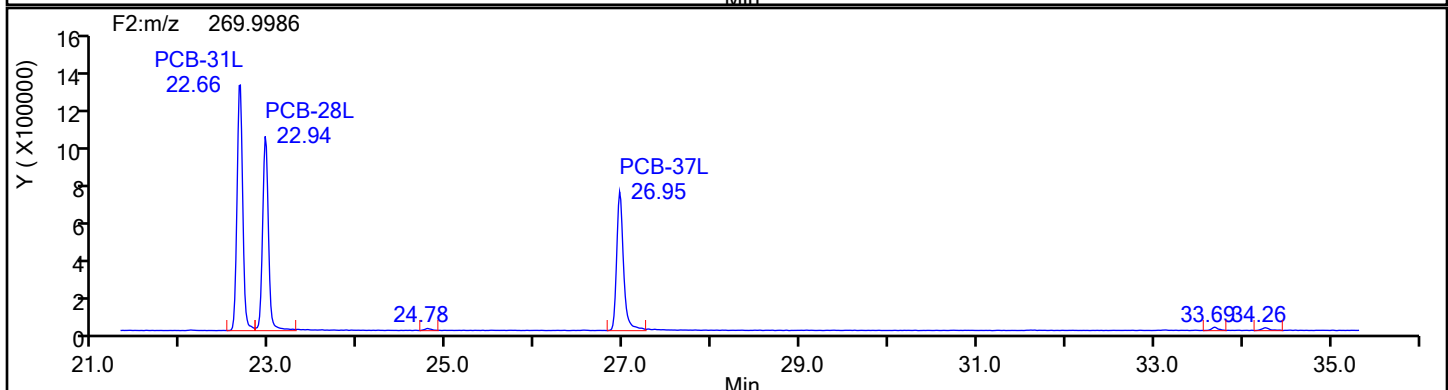
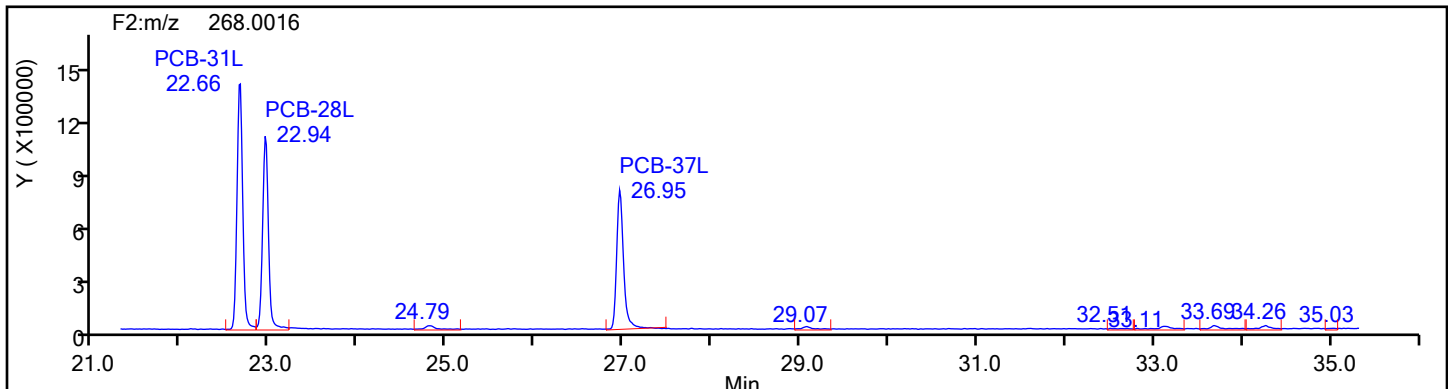
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

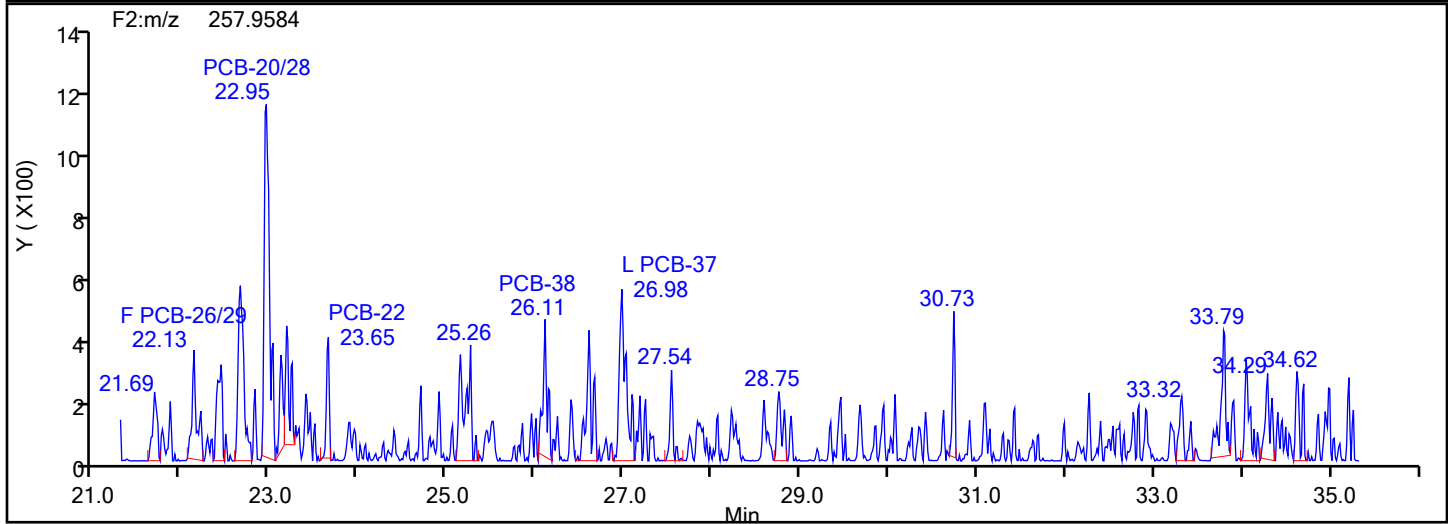
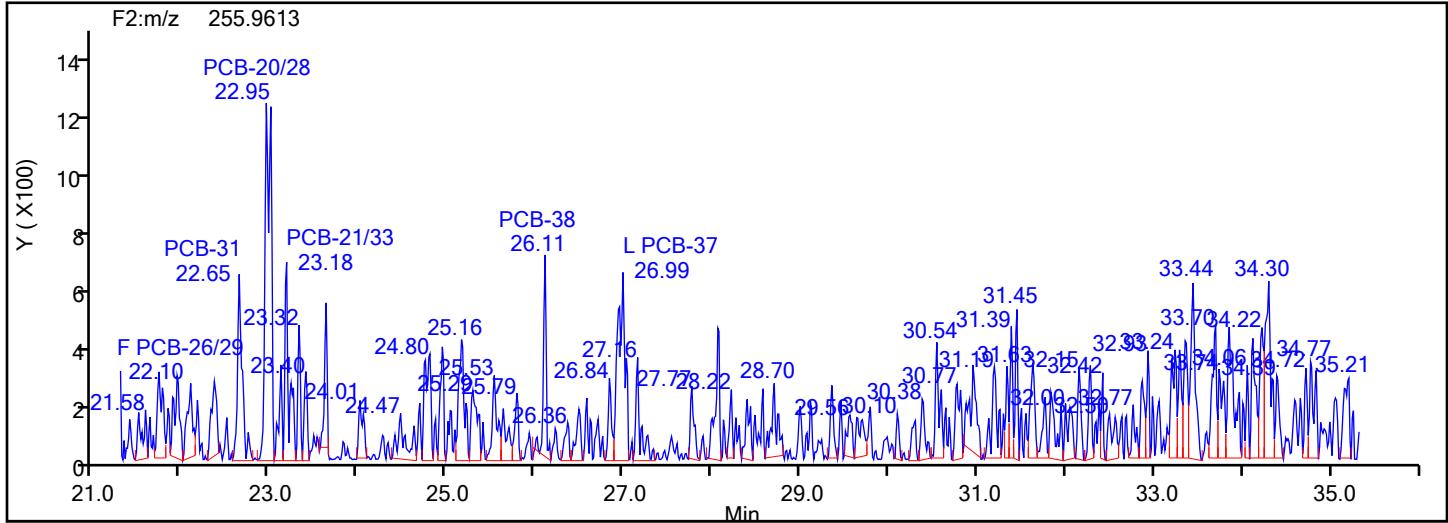
Worklist#: 88205

Sample Line#: 8

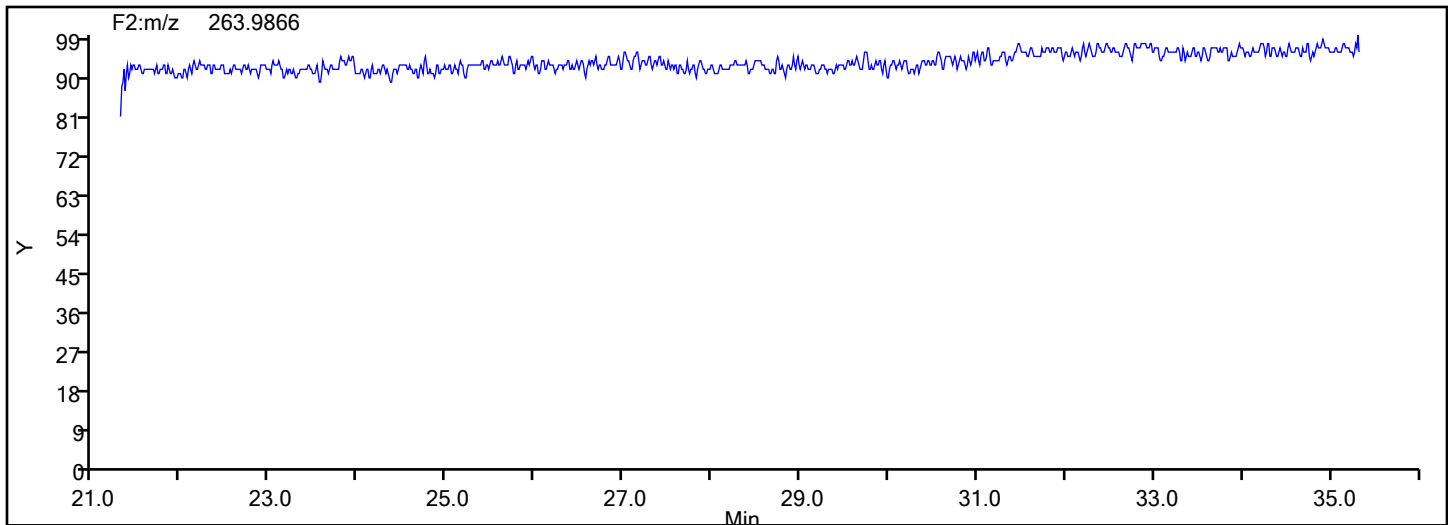
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

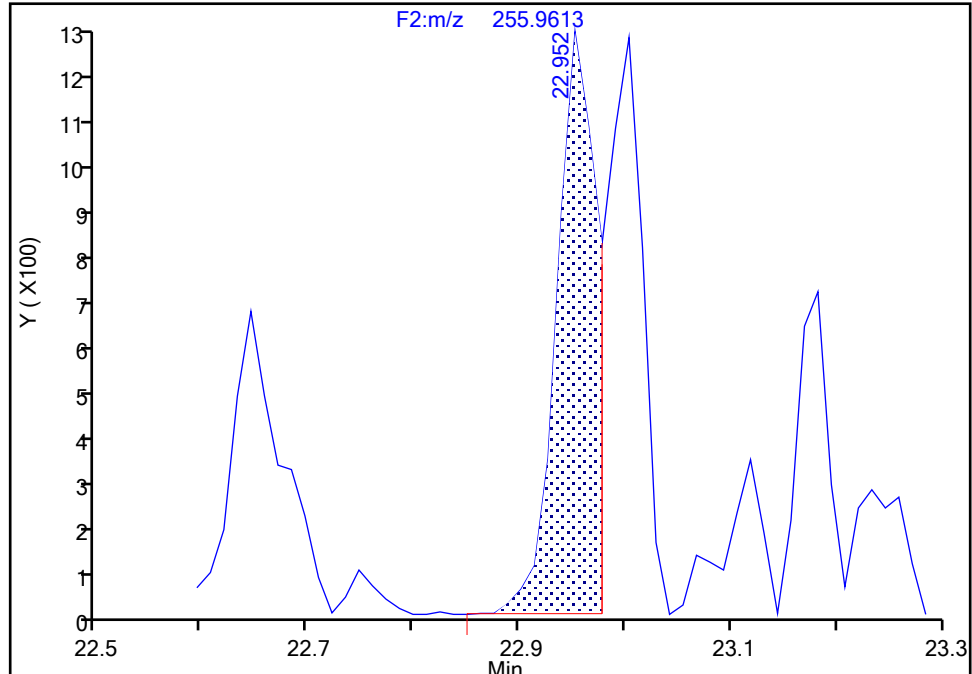
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d  
Injection Date: 28-Jun-2024 02:59:00 Instrument ID: D2D  
Lims ID: MB 140-87624/21-B  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F2(21.81 :35.54 )

PCB-20/28, CAS: STL01799

Signal: 1

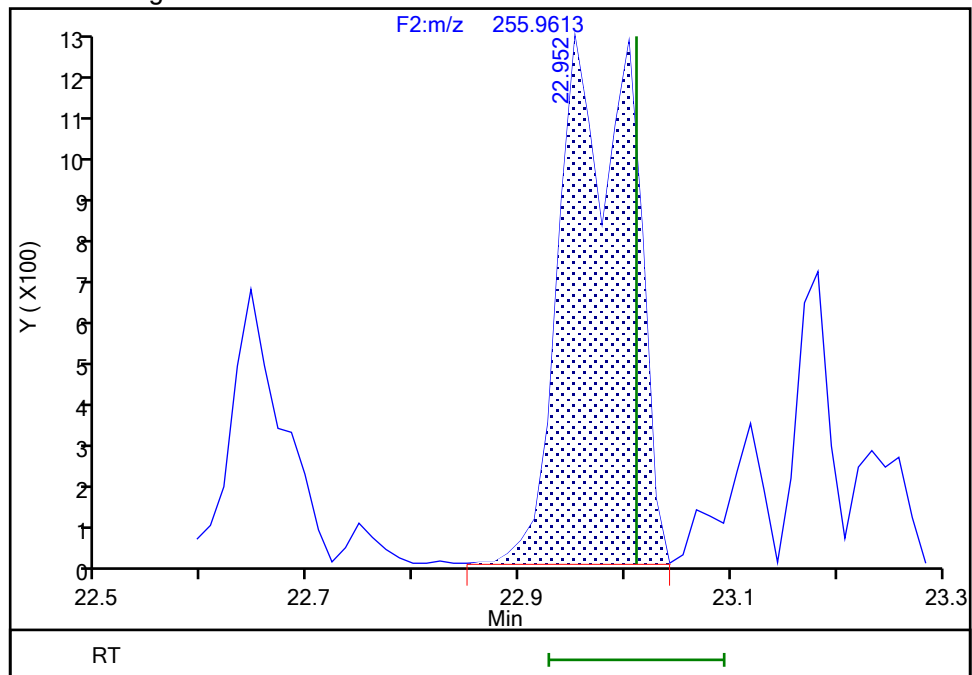
RT: 22.95  
Area: 2962  
Amount: 0.077849  
Amount Units: pg/ul

## Processing Integration Results



RT: 22.95  
Area: 5585  
Amount: 0.104682  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:36:57 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Instrument ID: D2D

Lims ID: MB 140-87624/21-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

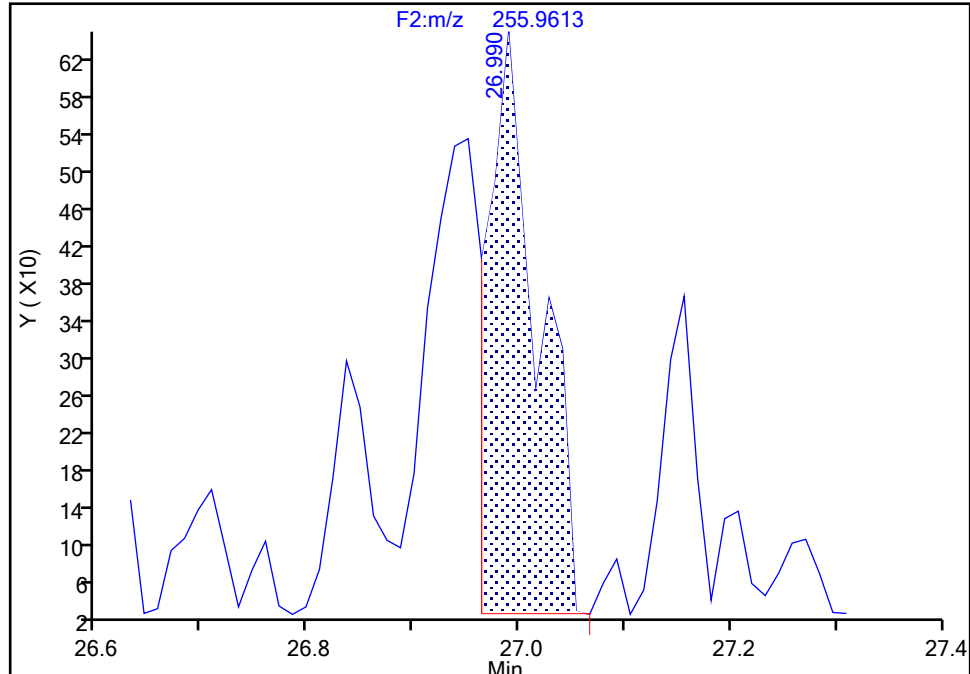
F2(21.81 :35.54 )

**PCB-37, CAS: 38444-90-5**

Signal: 1

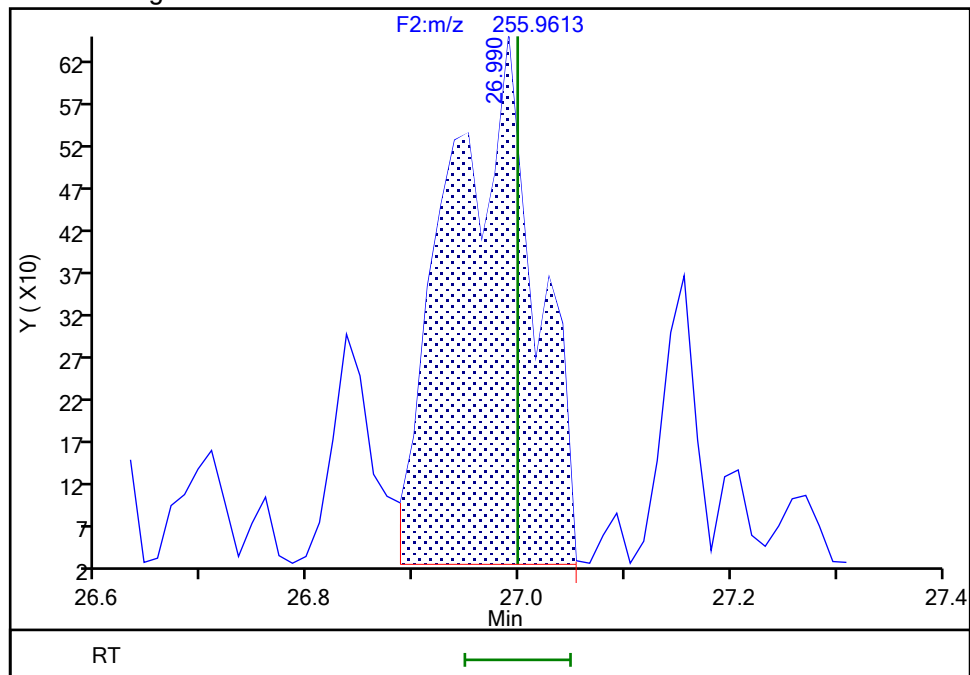
RT: 26.99  
Area: 1960  
Amount: 0.055056  
Amount Units: pg/ul

## Processing Integration Results



RT: 26.99  
Area: 3596  
Amount: 0.067552  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:37:24 -04:00:00 (UTC)

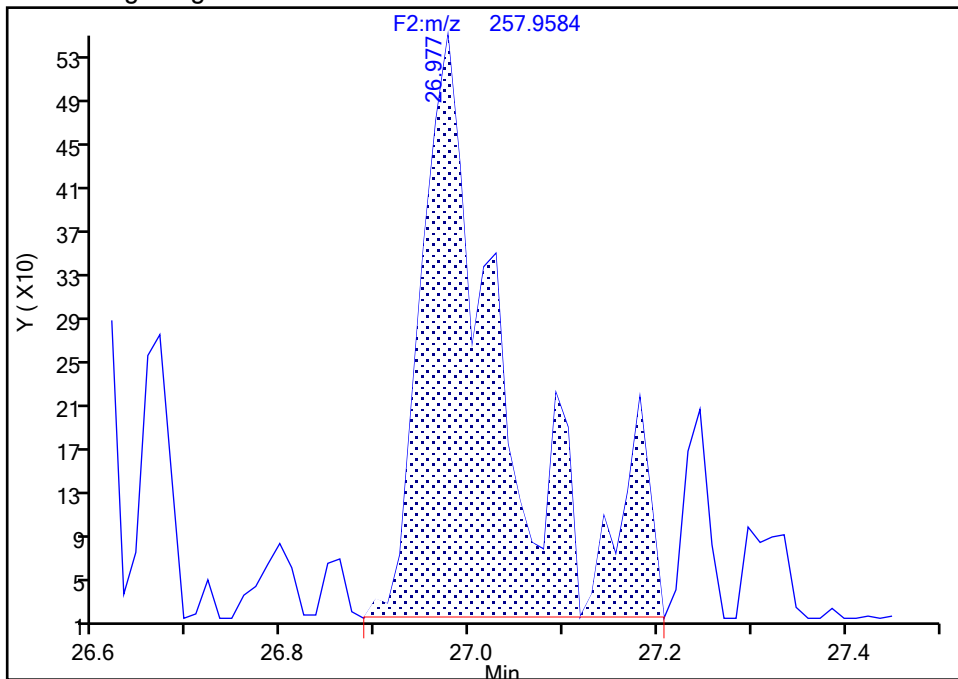
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

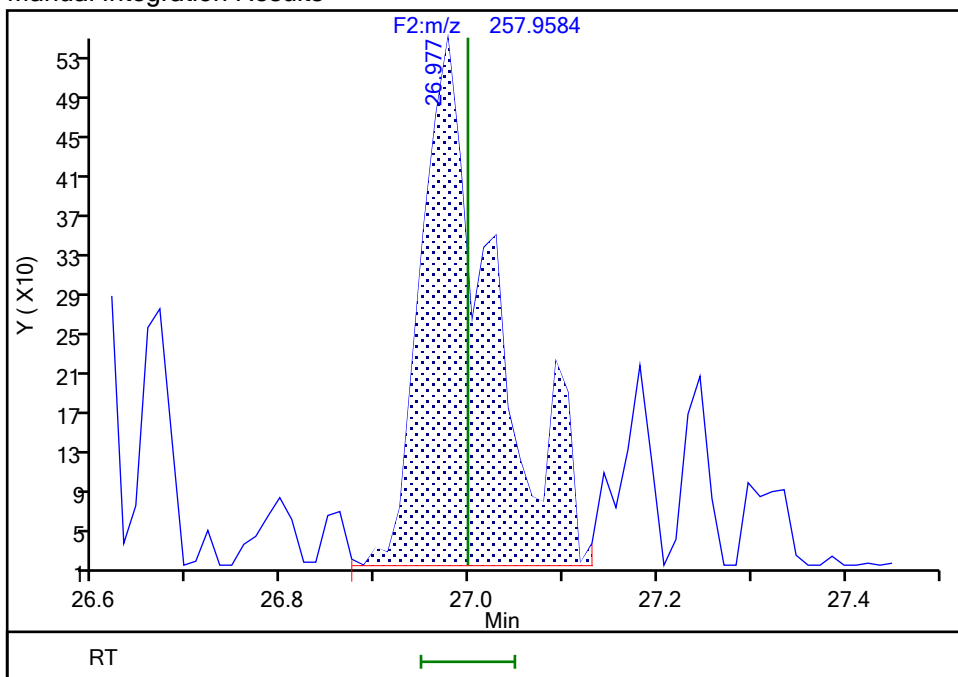
Data File:	\\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d				
Injection Date:	28-Jun-2024 02:59:00	Instrument ID:	D2D		
Lims ID:	MB 140-87624/21-B				
Client ID:					
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB ICAL		
Column:	SPB-Octyl ( 0.25 mm)	Detector	F2(21.81 :35.54 )		

Signal: 2

RT: 26.98  
Area: 3292  
Amount: 0.055056  
Amount Units: pg/ul



RT: 26.98  
Area: 2848  
Amount: 0.067552  
Amount Units: pg/ul



BASFHWC-Report-205307  
9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

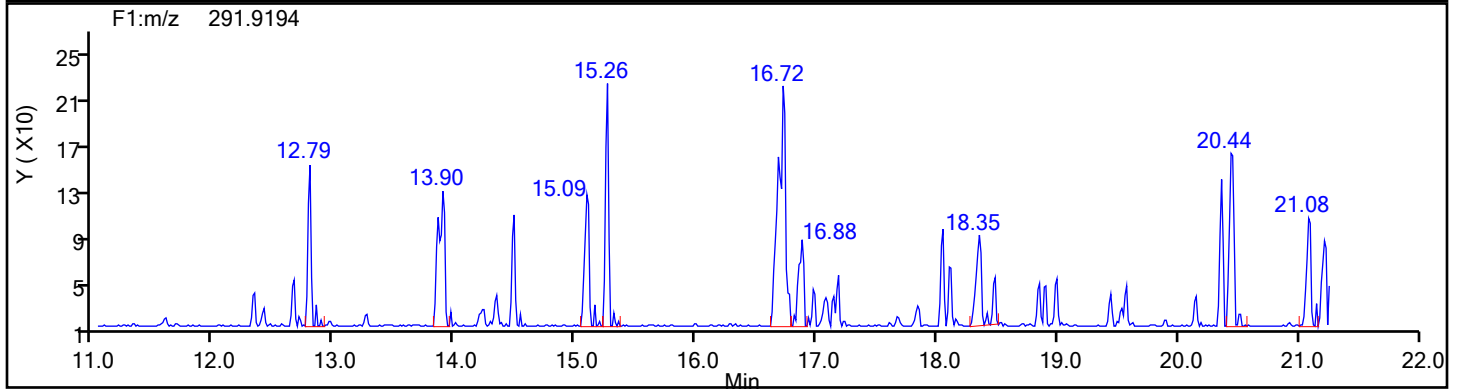
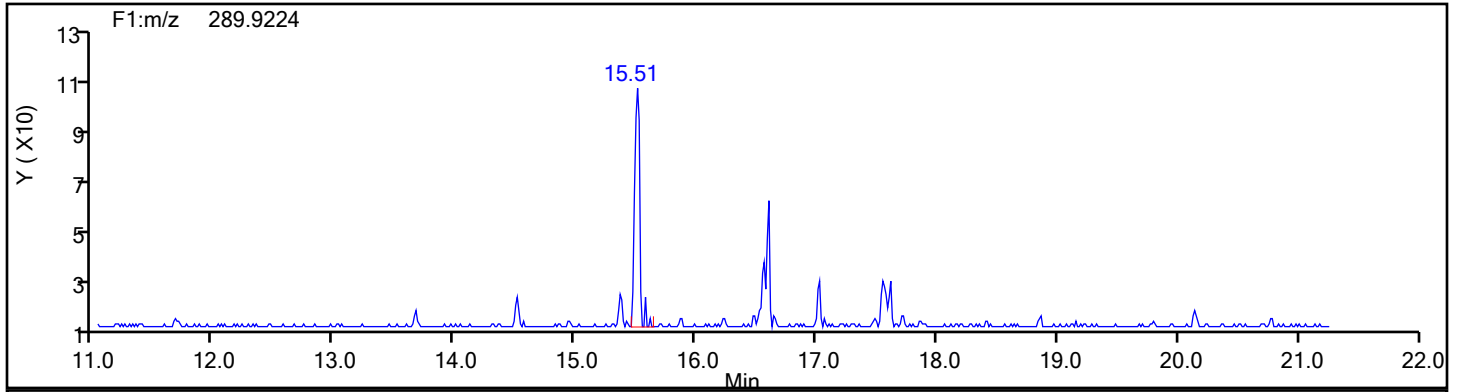
Worklist#: 88205

Sample Line#: 8

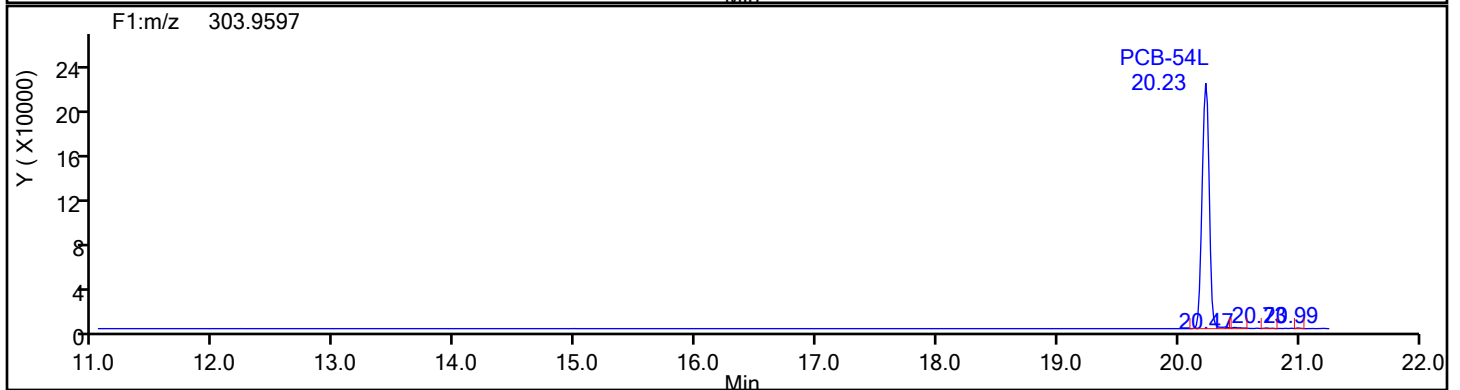
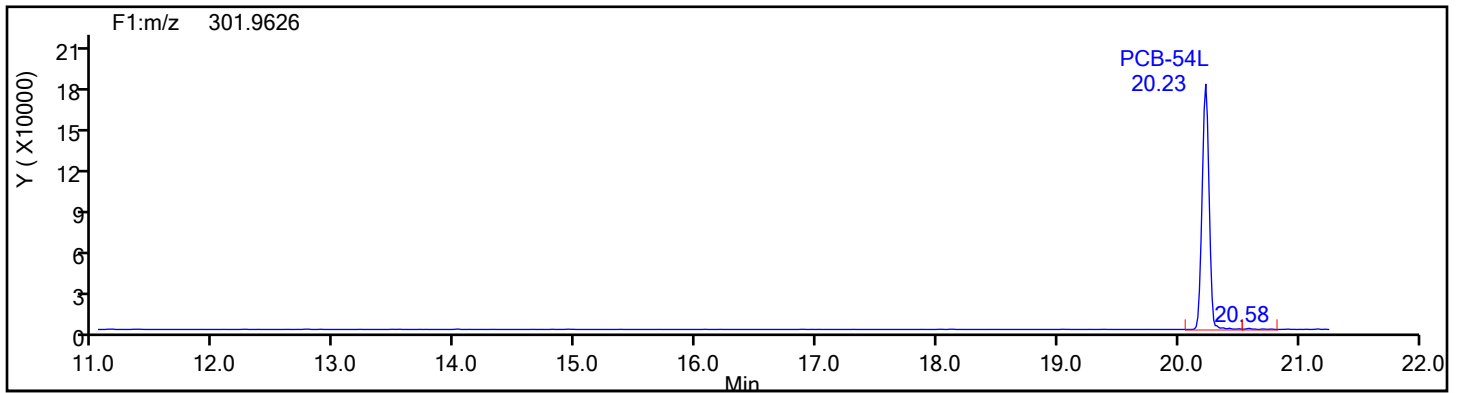
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

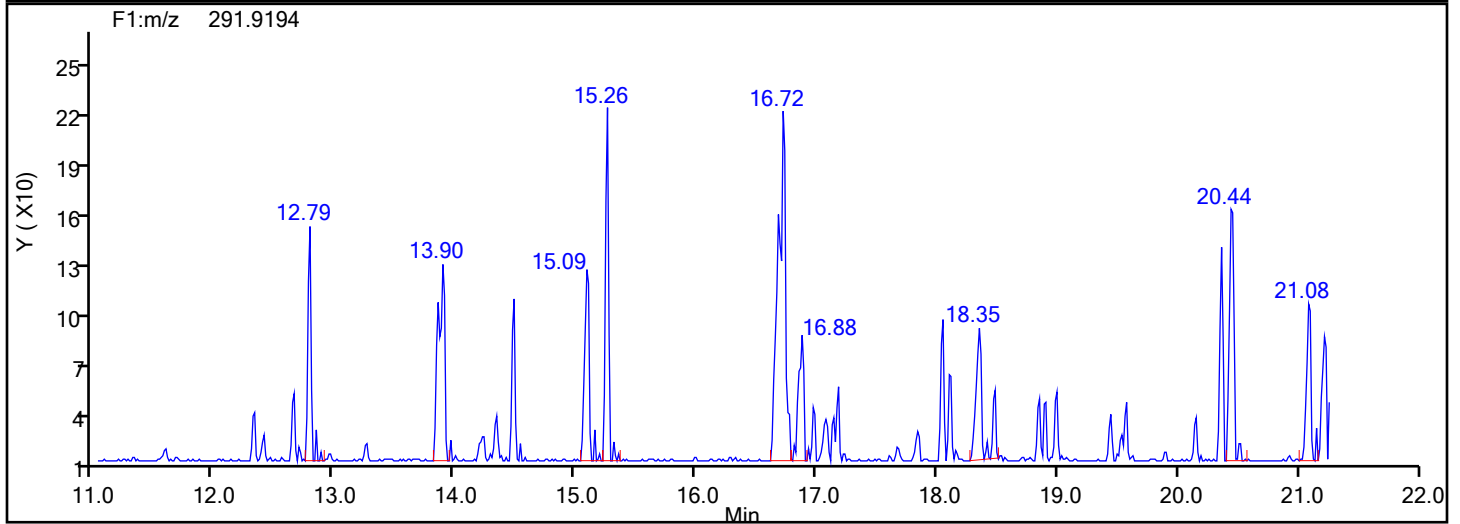
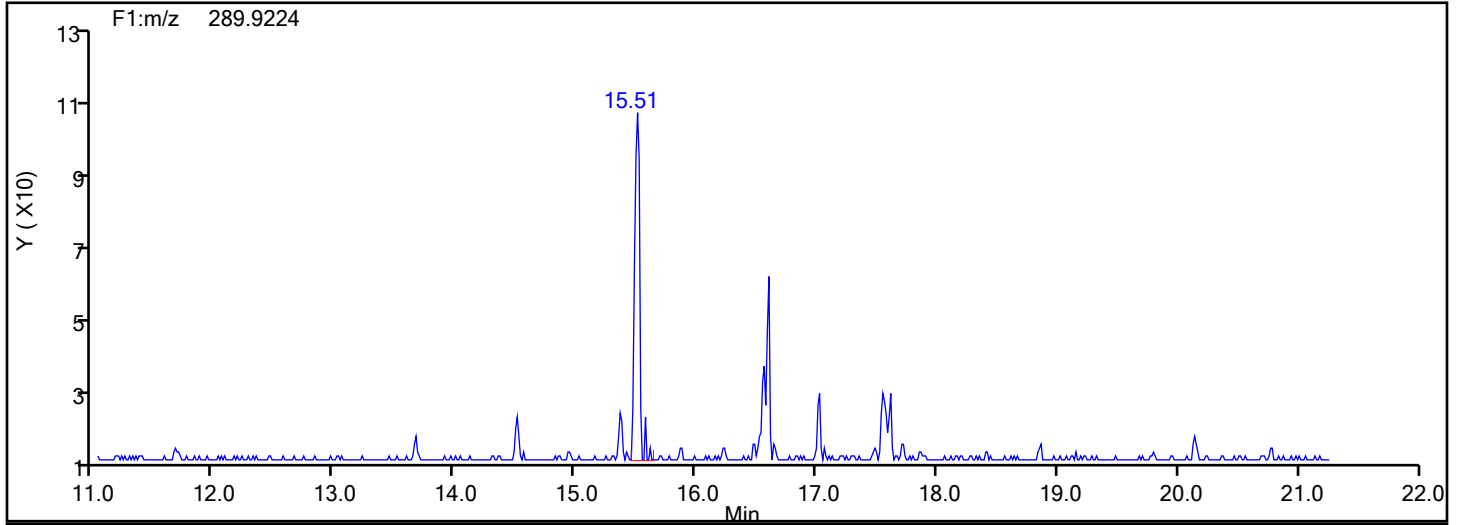
Worklist#: 88205

Sample Line#: 8

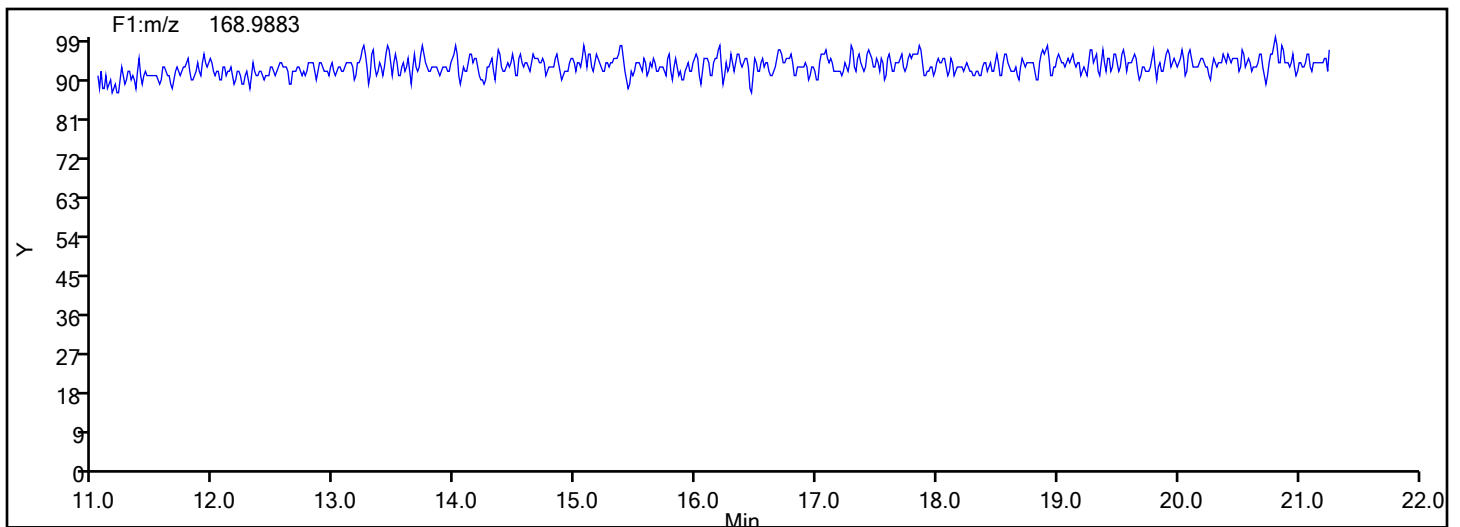
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

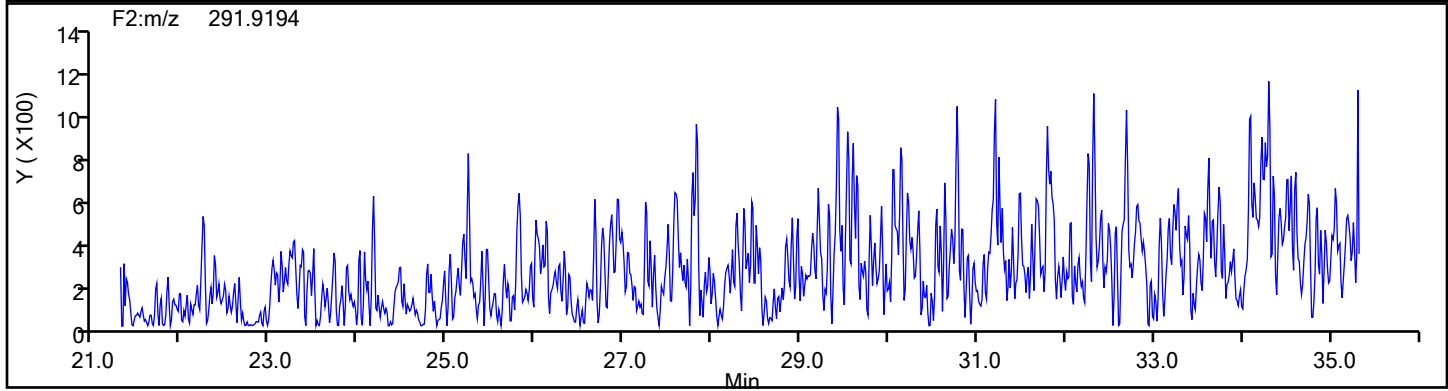
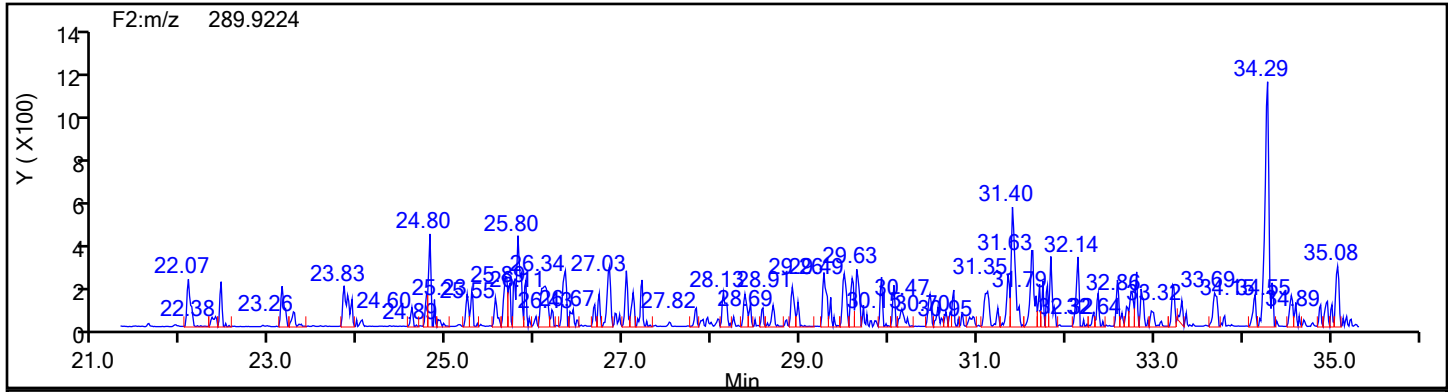
Worklist#: 88205

Sample Line#: 8

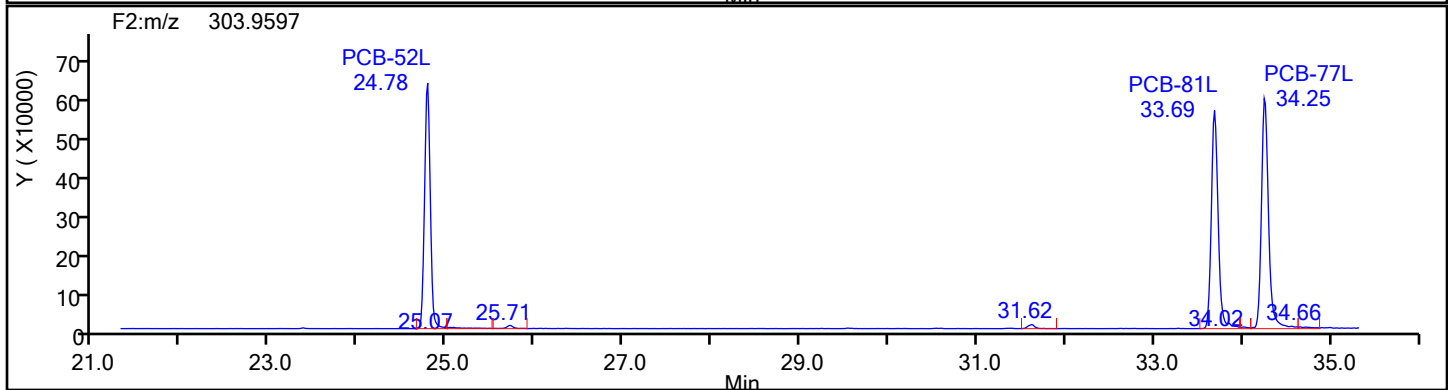
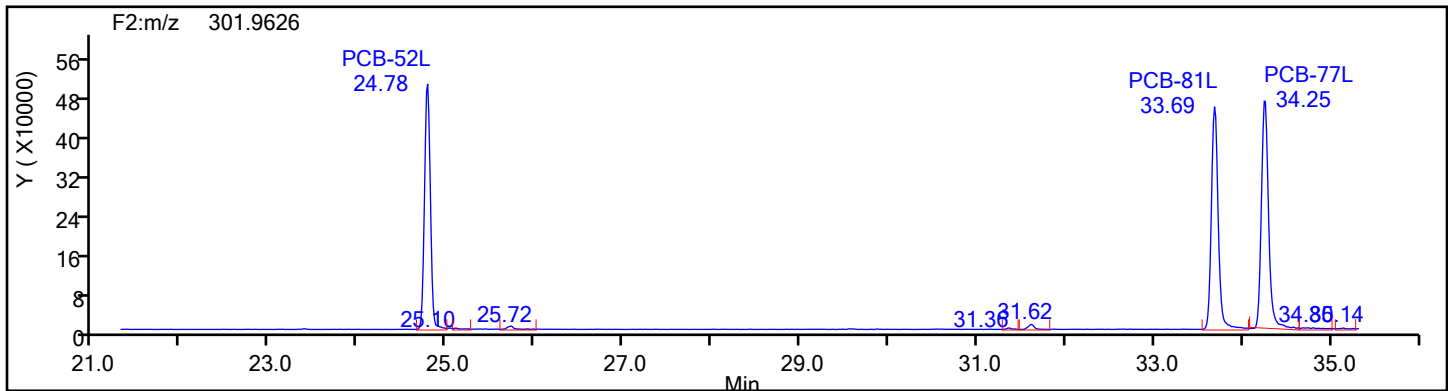
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

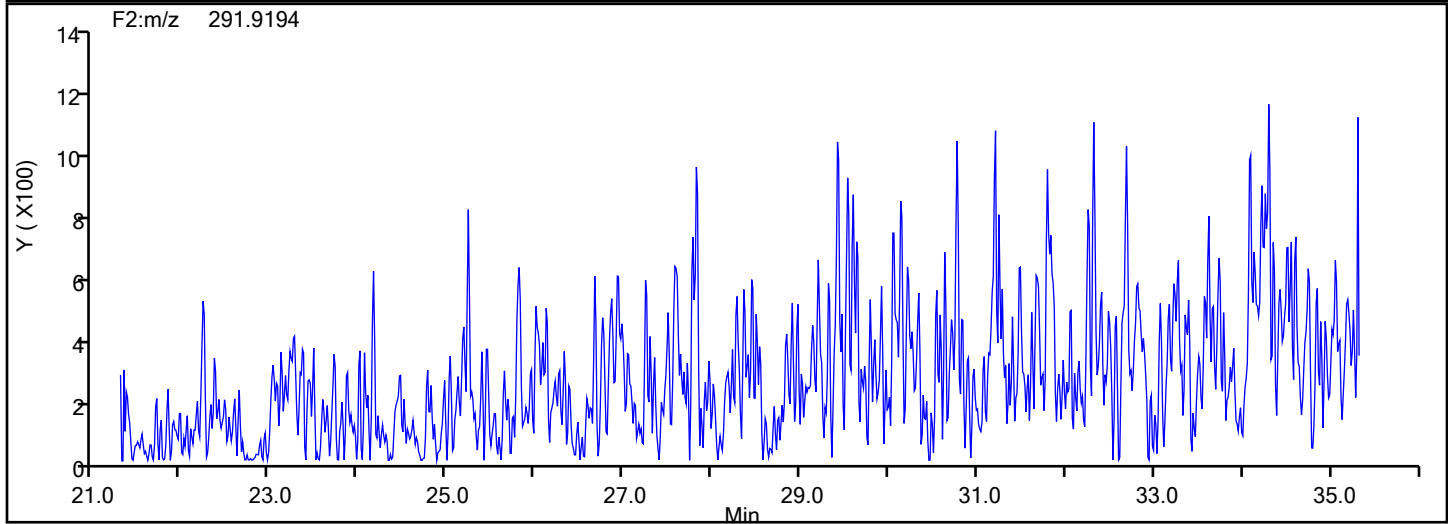
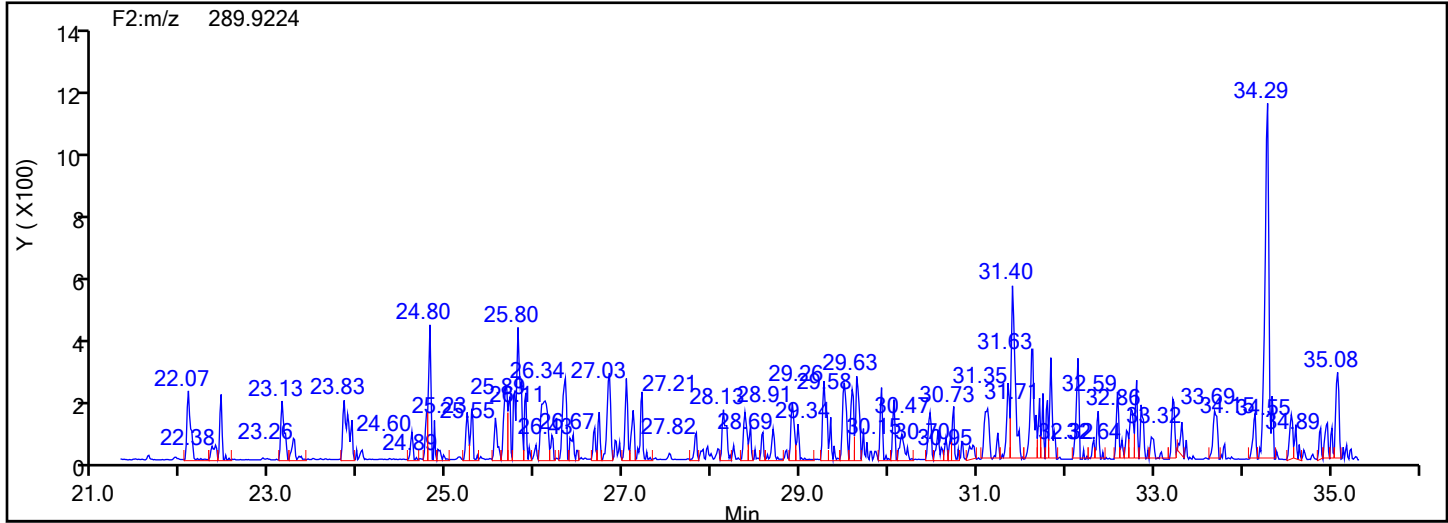
Worklist#: 88205

Sample Line#: 8

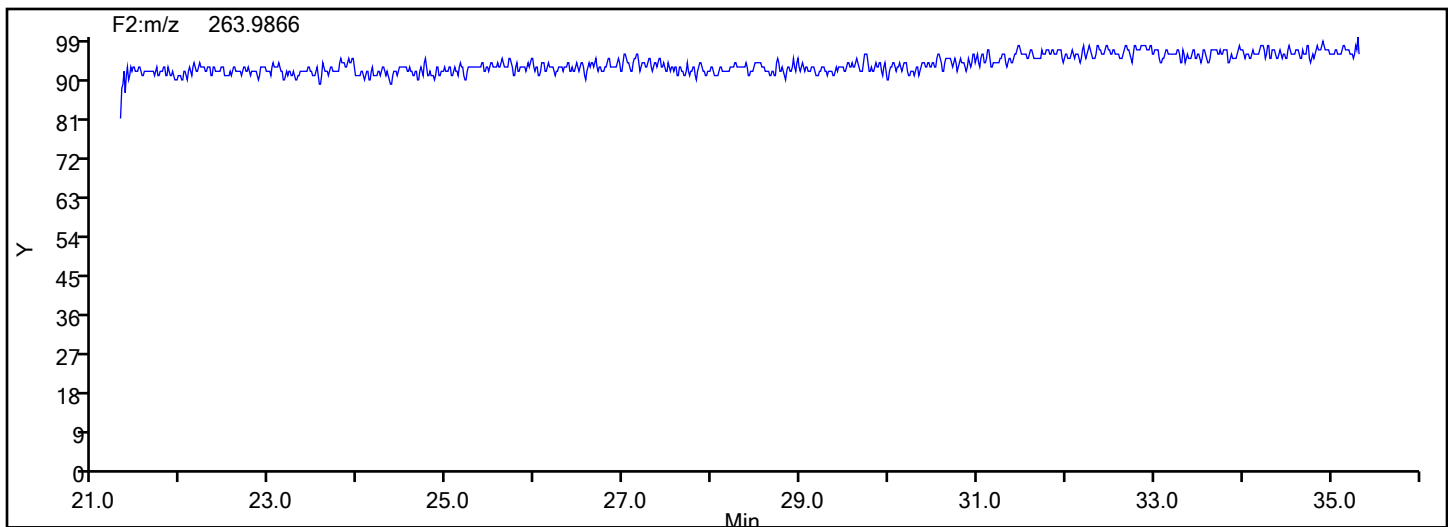
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

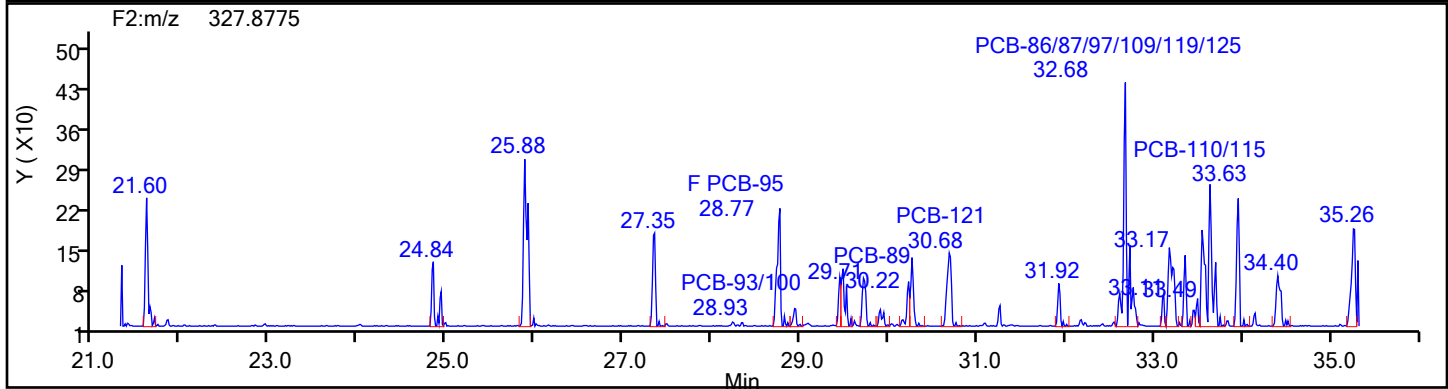
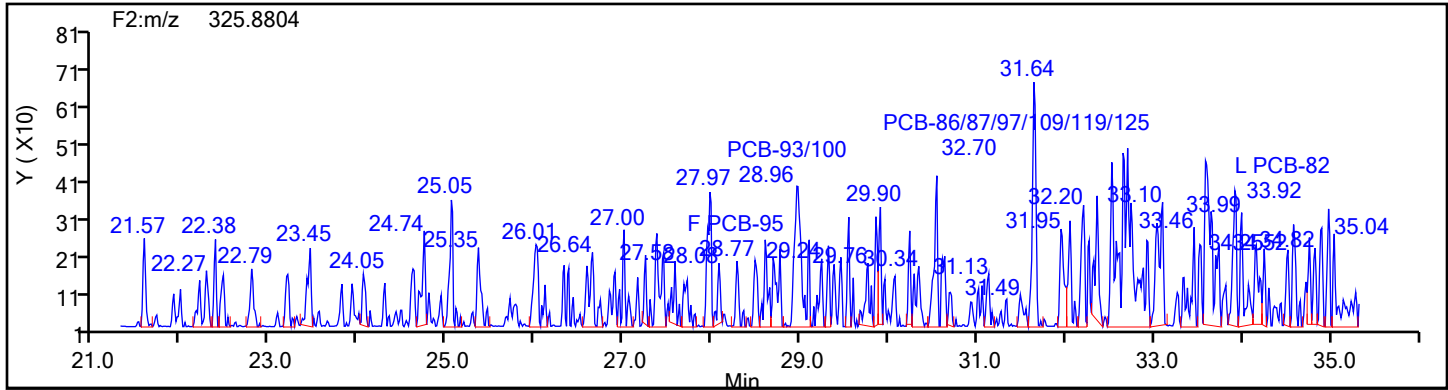
Worklist#: 88205

Sample Line#: 8

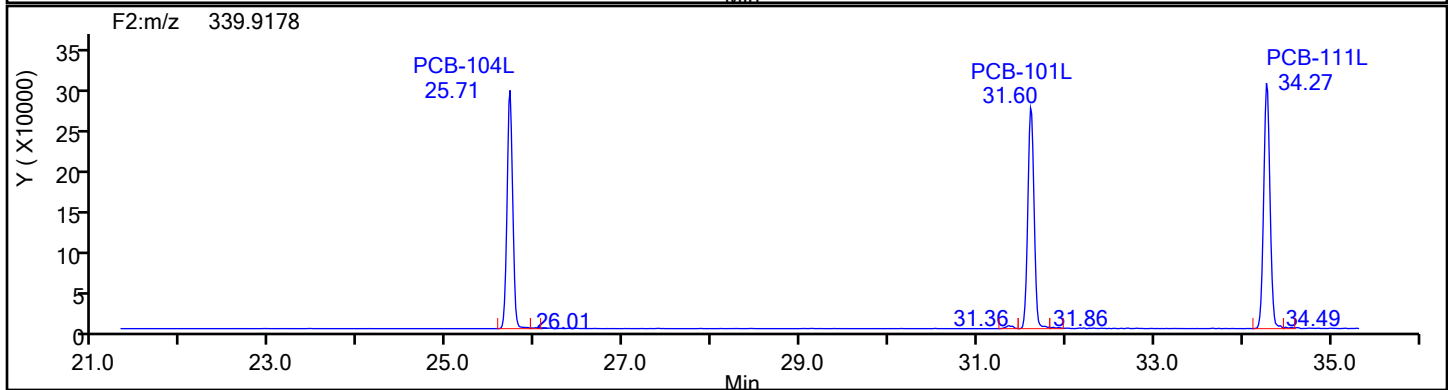
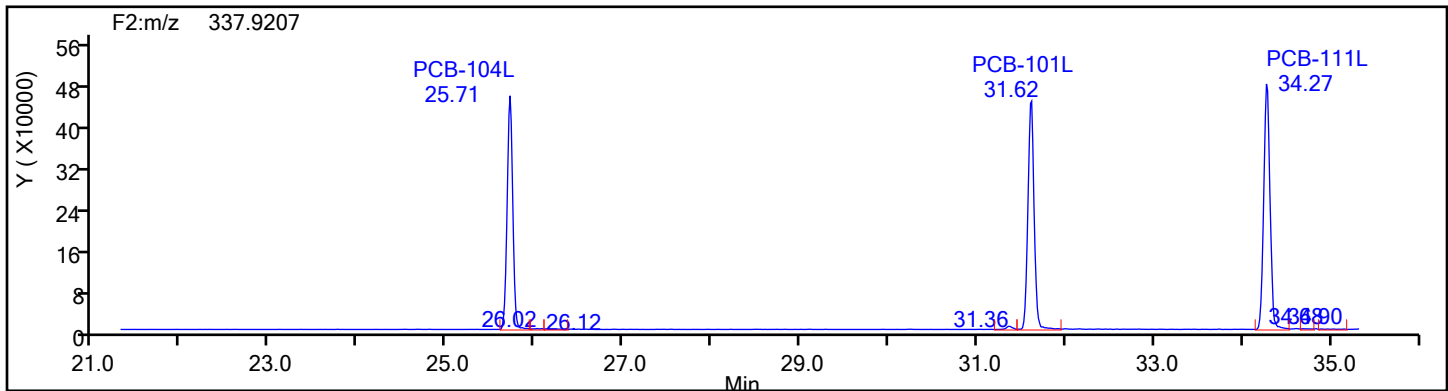
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

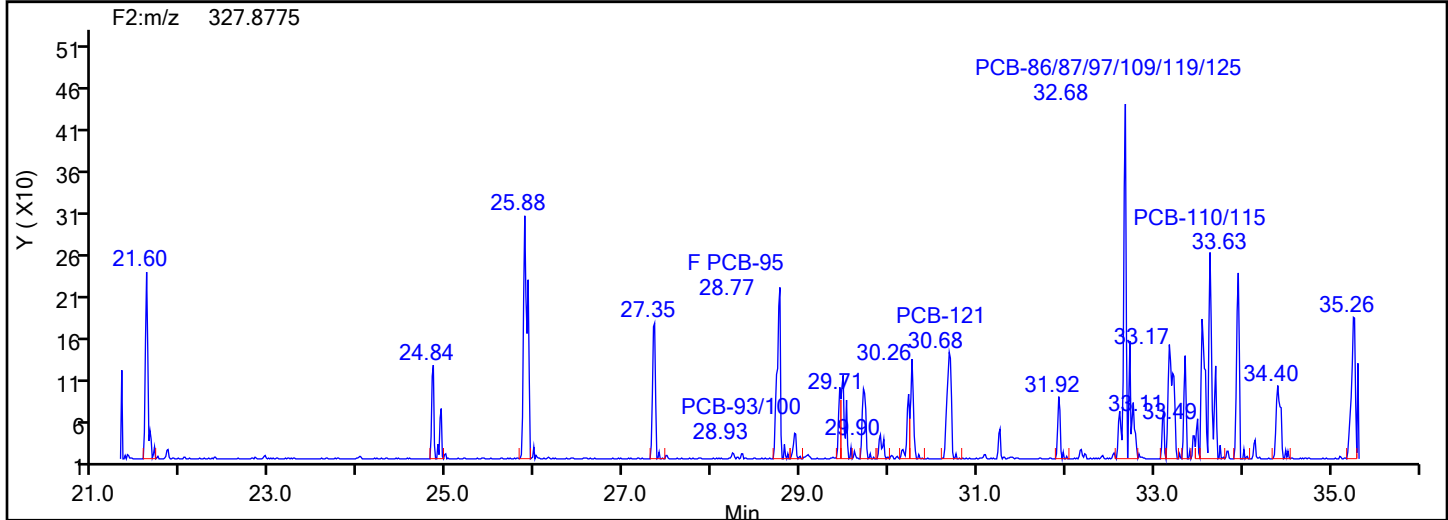
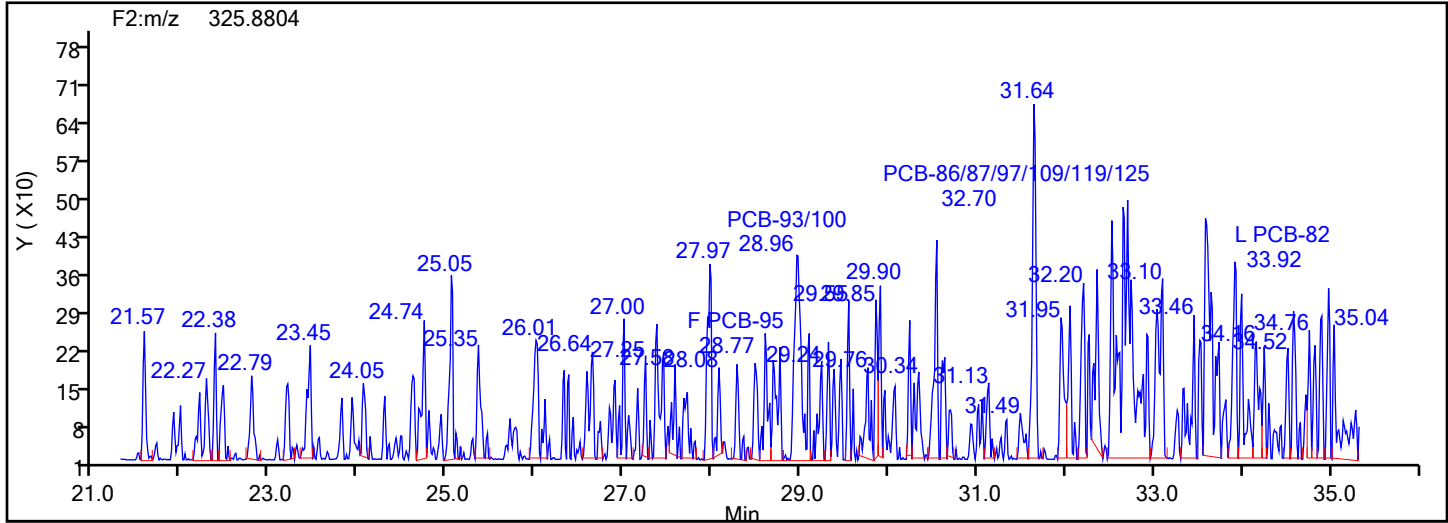
Worklist#: 88205

Sample Line#: 8

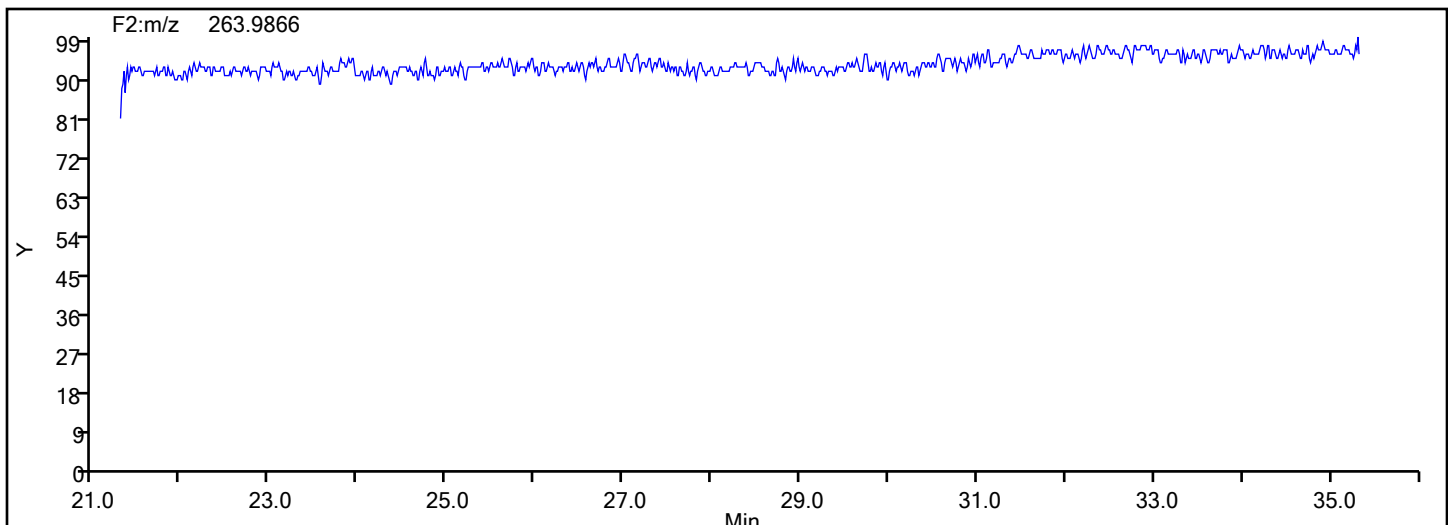
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

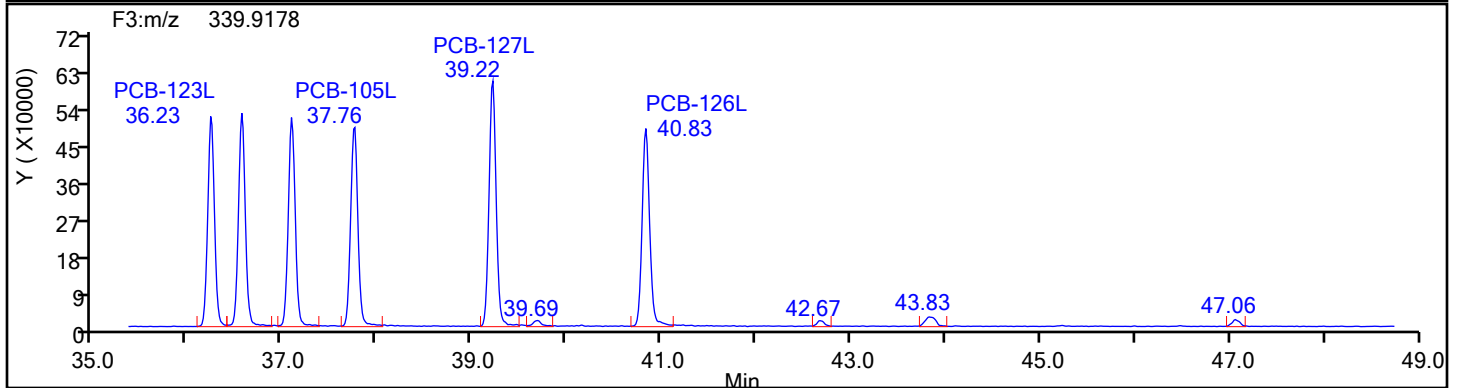
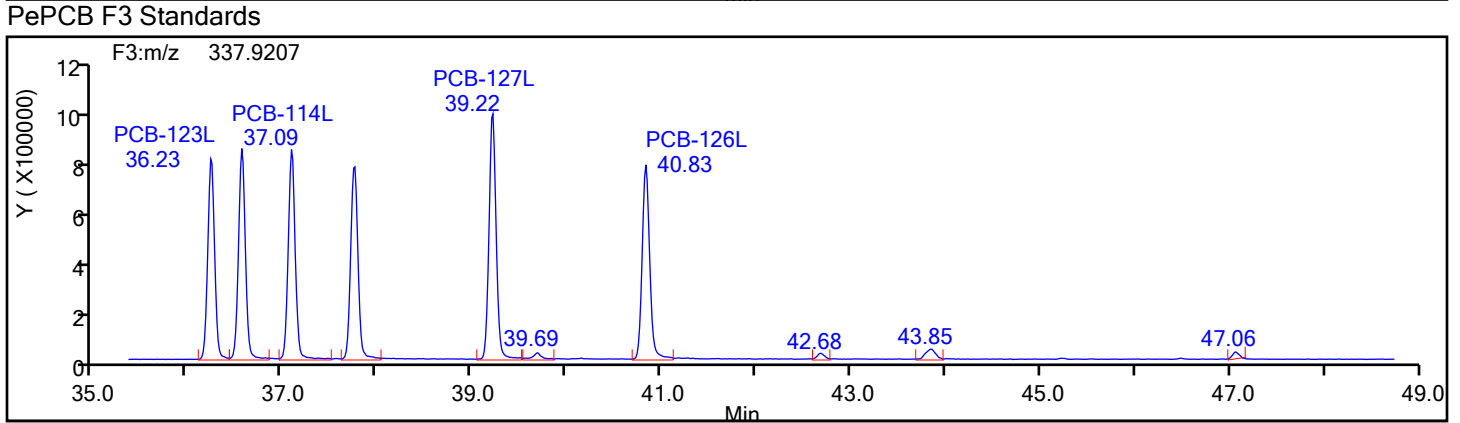
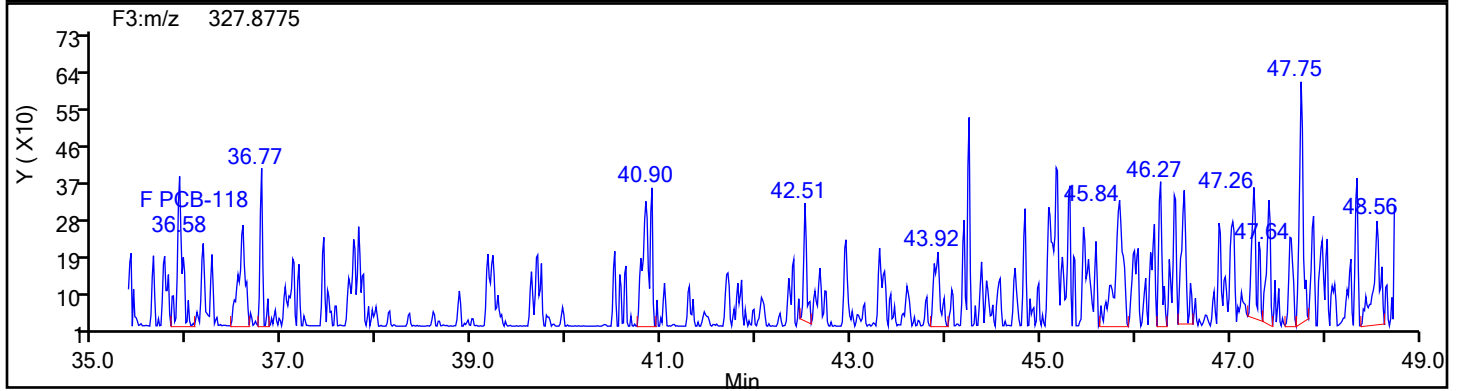
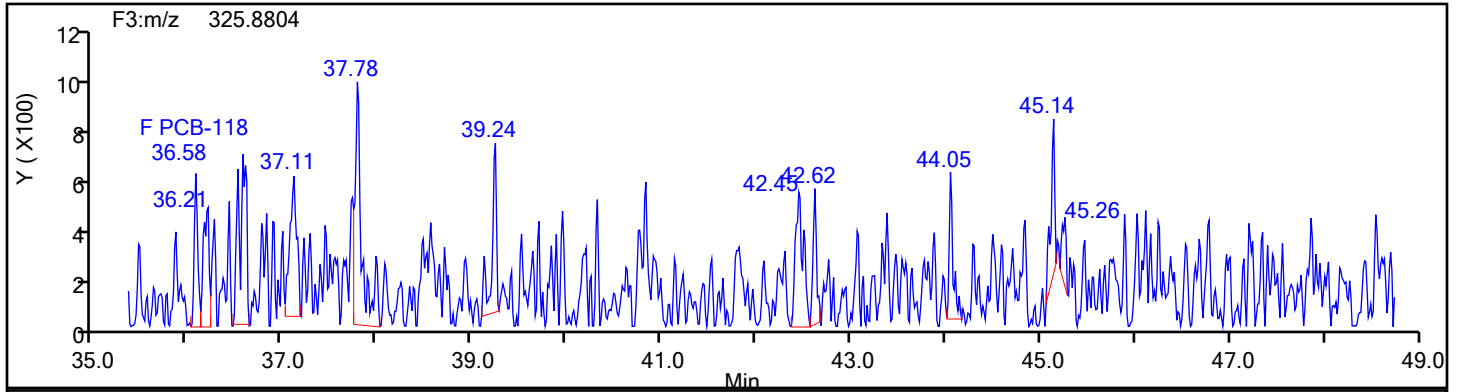
Worklist#: 88205

Sample Line#: 8

Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

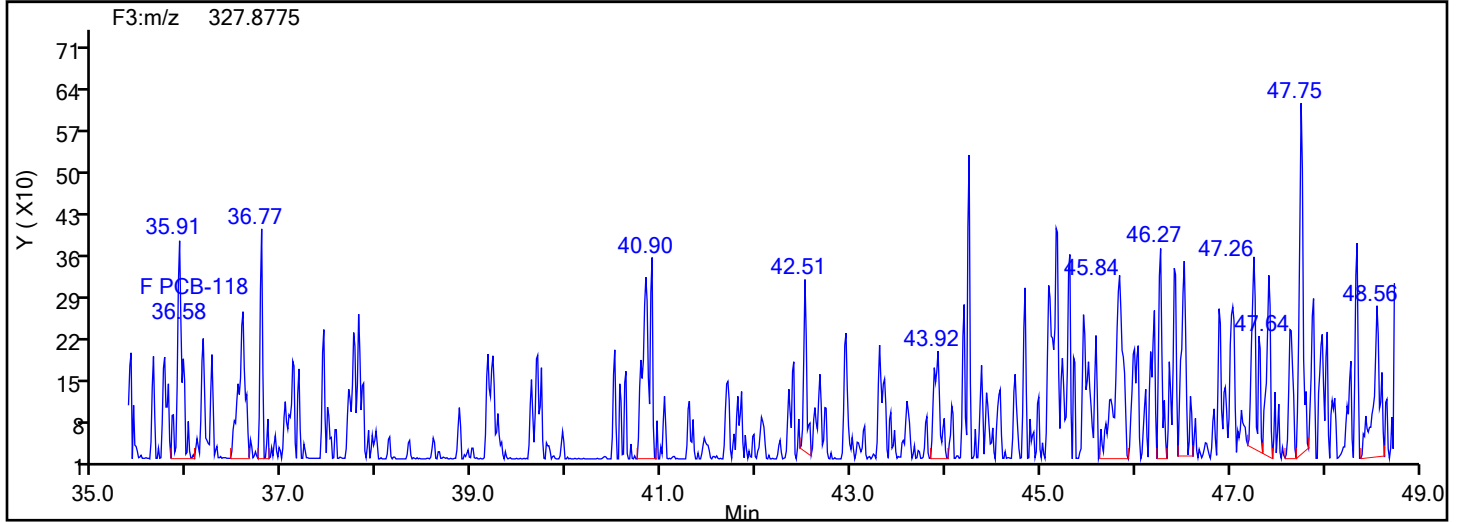
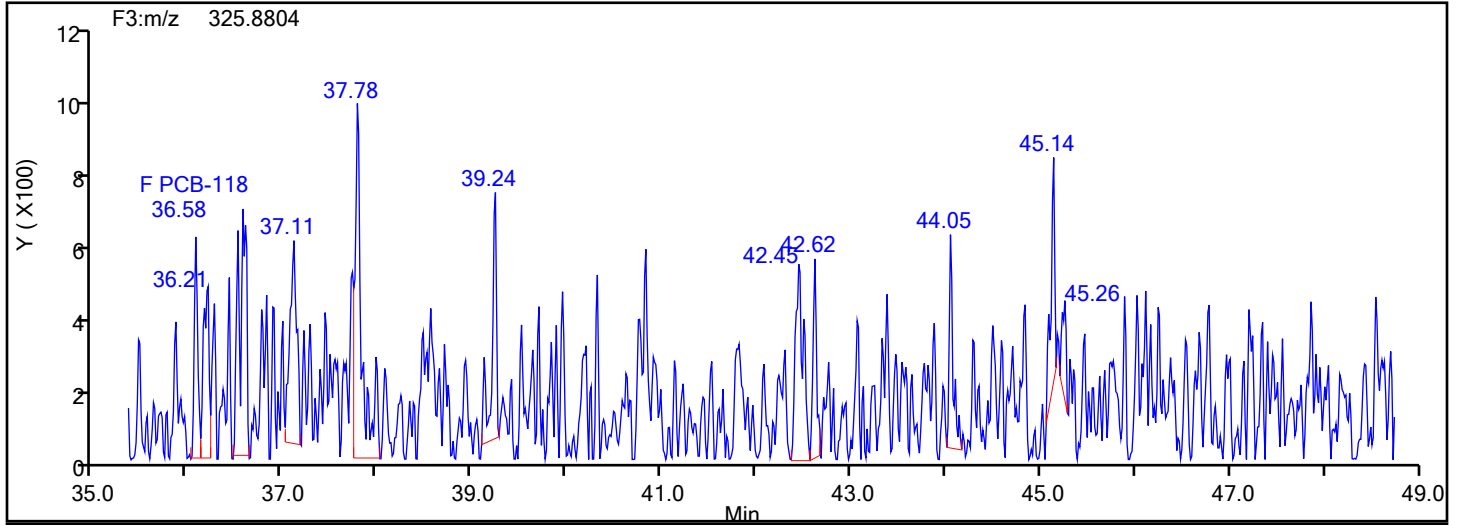
Worklist#: 88205

Sample Line#: 8

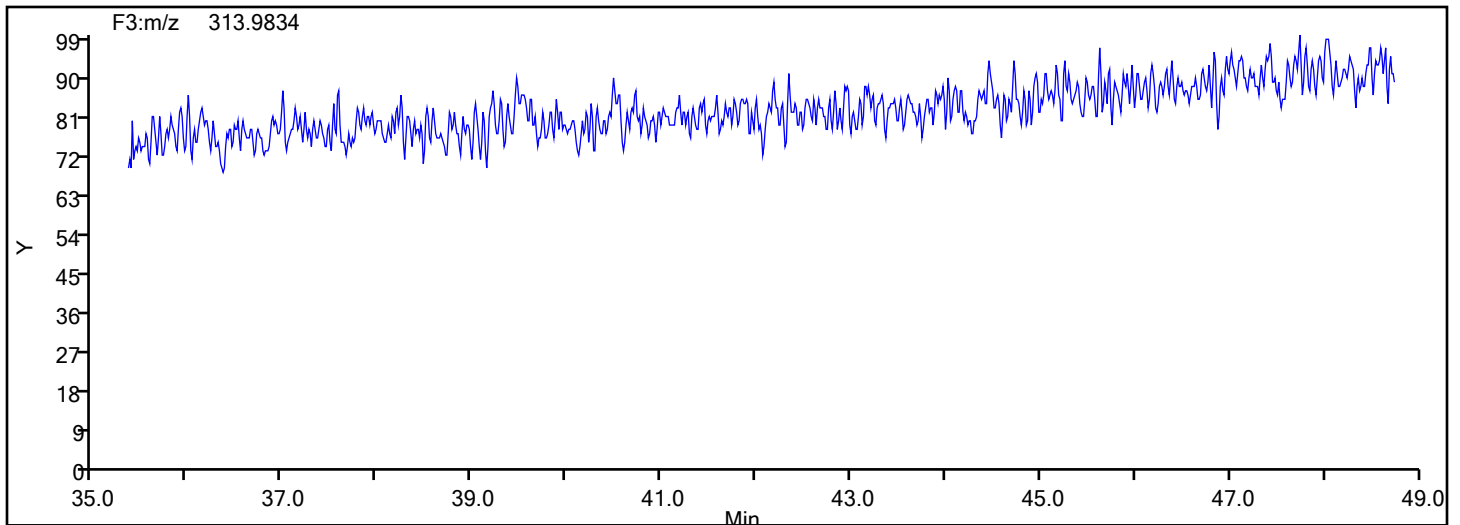
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



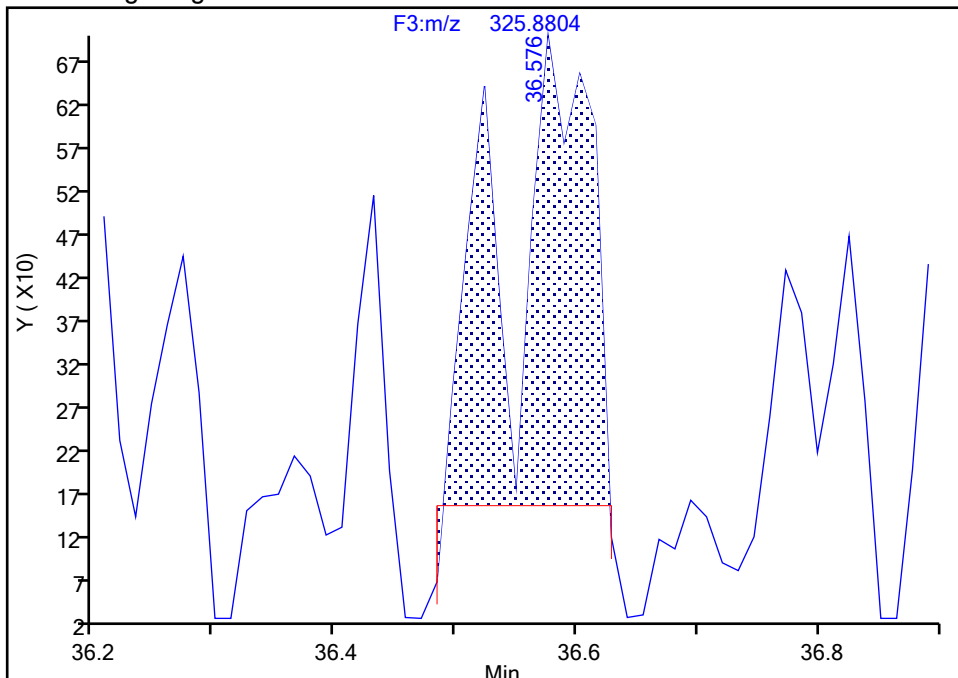
## PePCB F3 Lock Mass



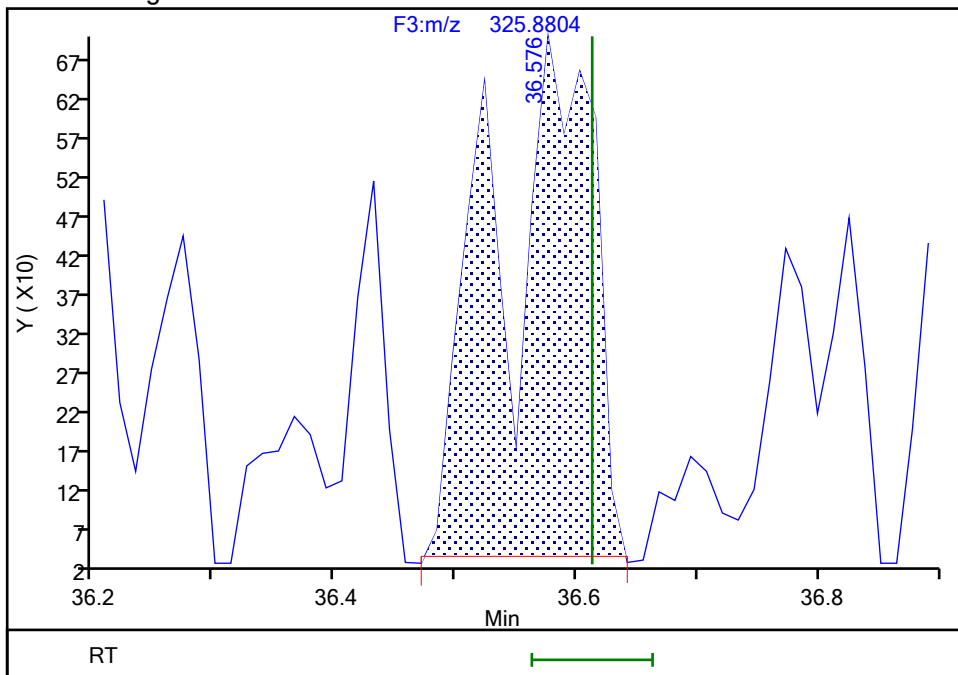
Data File:	\\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d			
Injection Date:	28-Jun-2024 02:59:00	Instrument ID:	D2D	
Lims ID:	MB 140-87624/21-B			
Client ID:				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklis
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB	
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.10 )	

Signal: 1

## Processing Integration Results



## Manual Integration Results



### Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

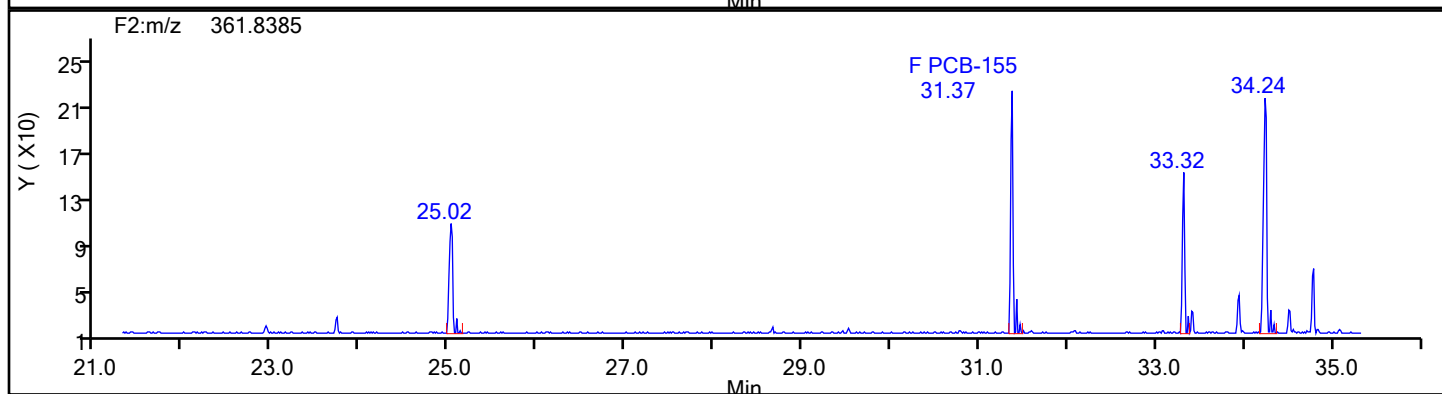
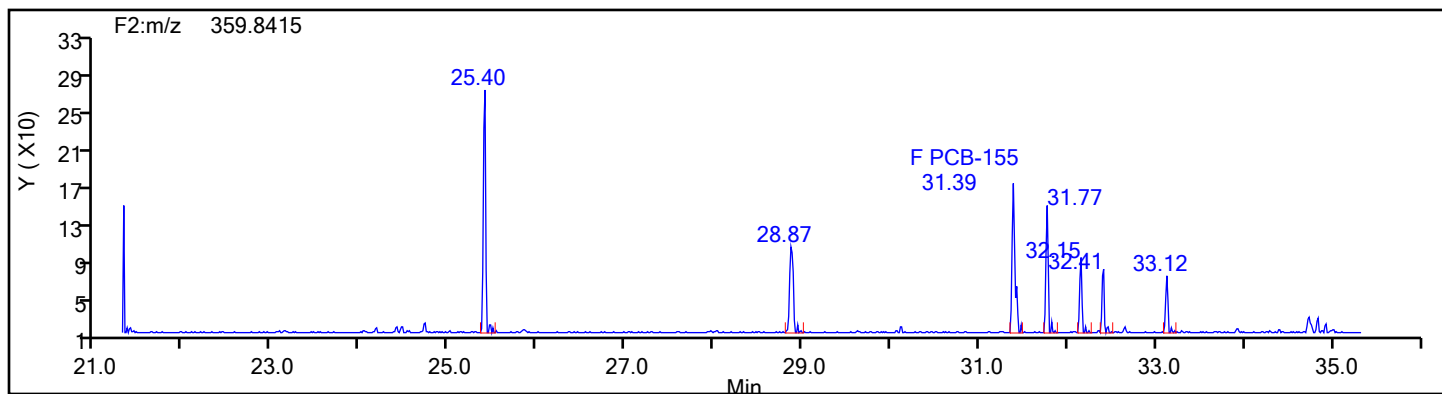
Worklist#: 88205

Sample Line#: 8

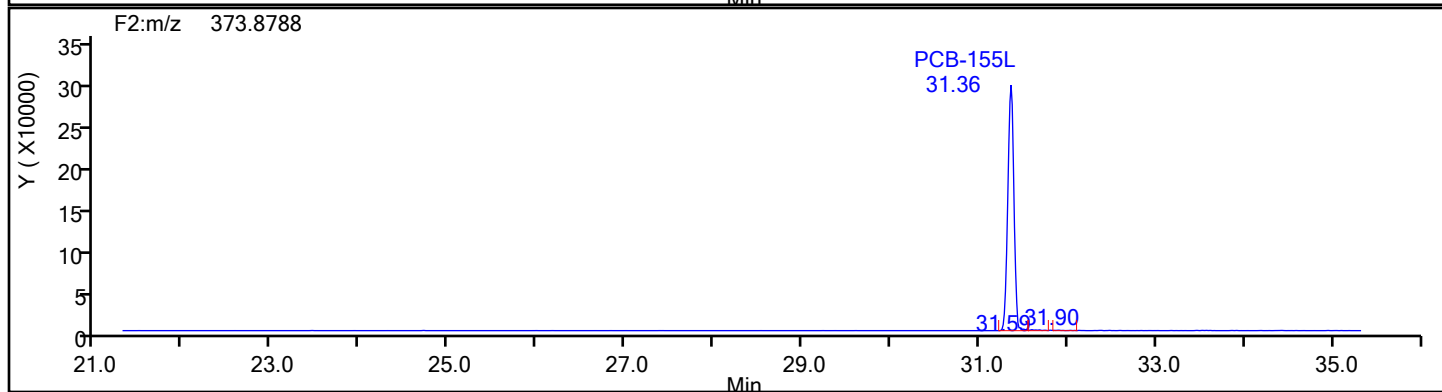
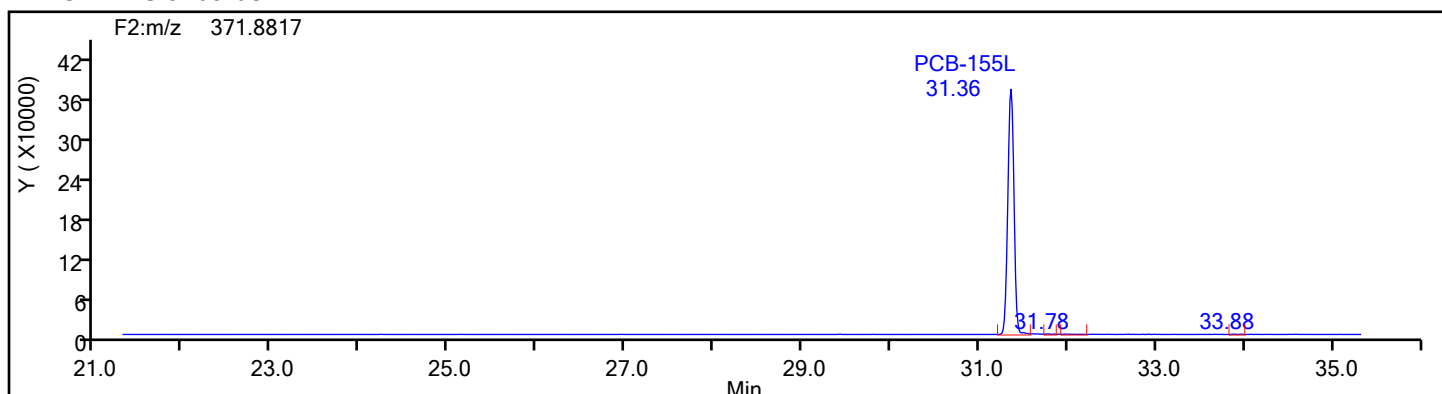
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

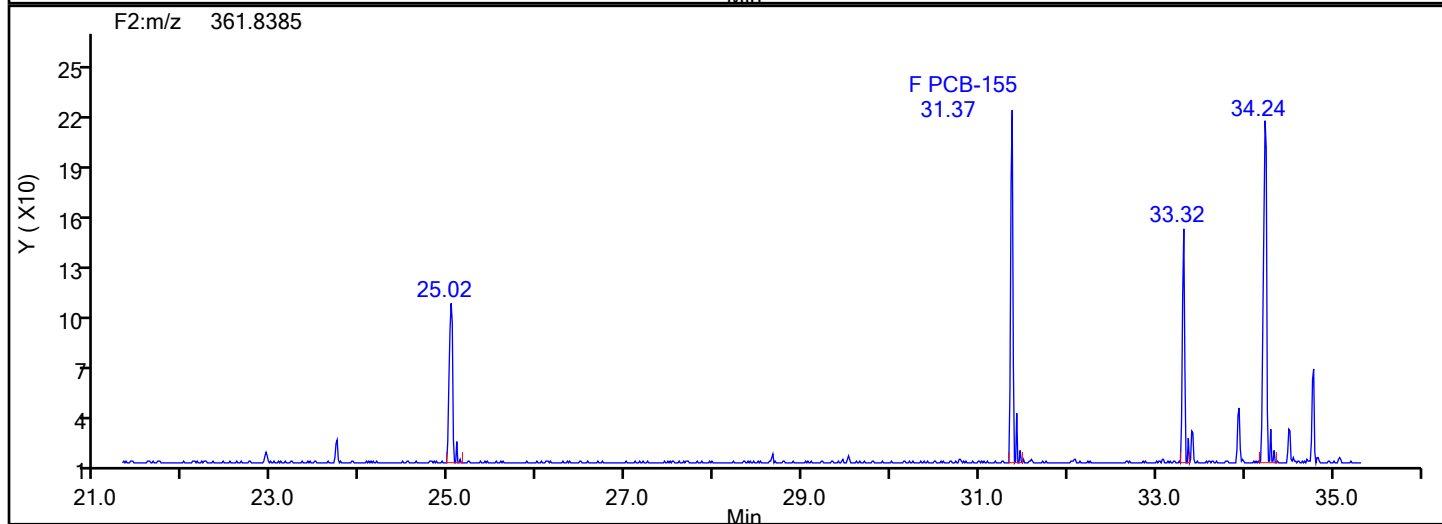
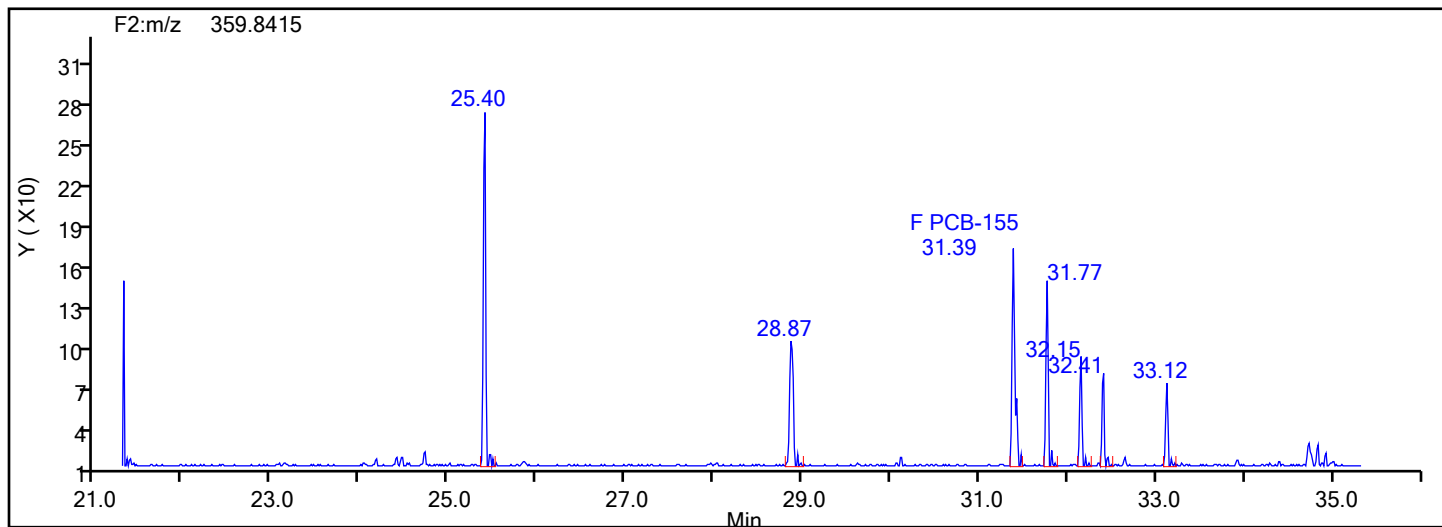
Worklist#: 88205

Sample Line#: 8

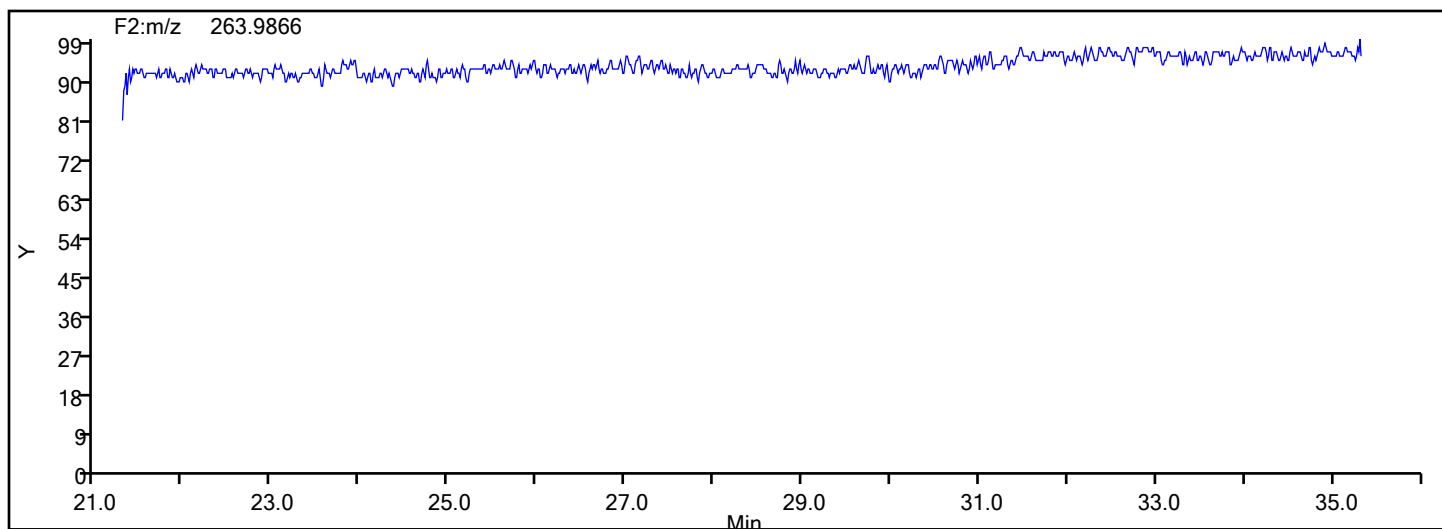
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2



HxPCB F2 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

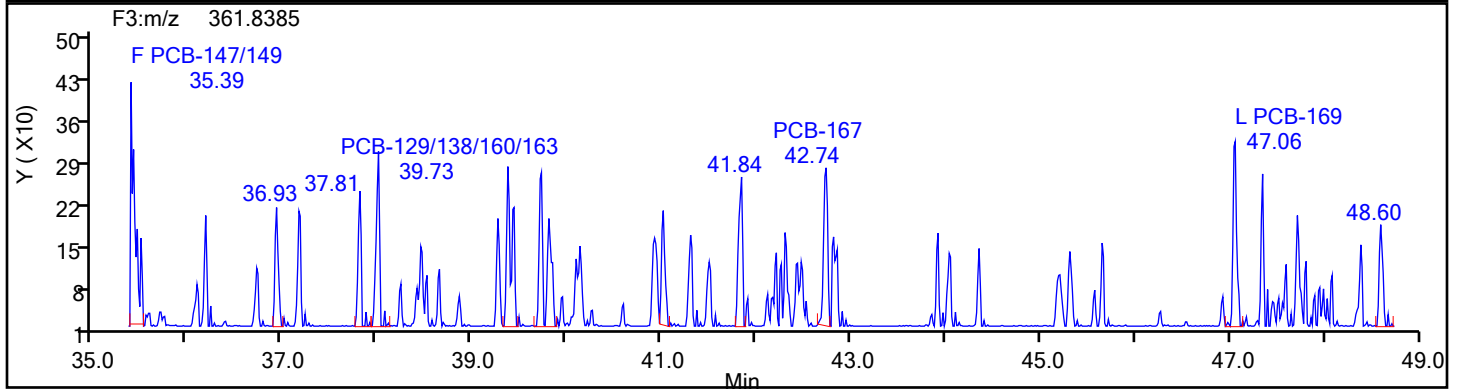
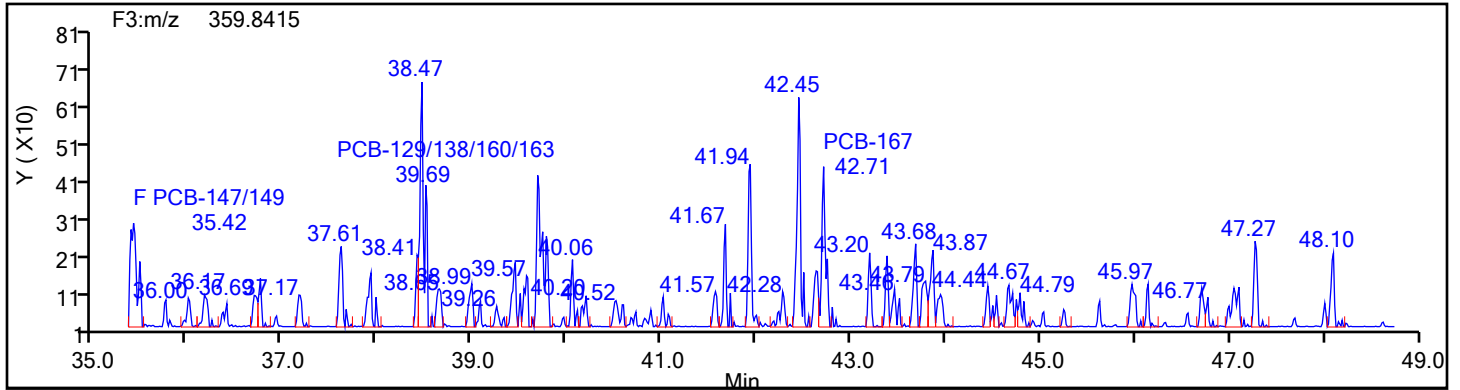
Worklist#: 88205

Sample Line#: 8

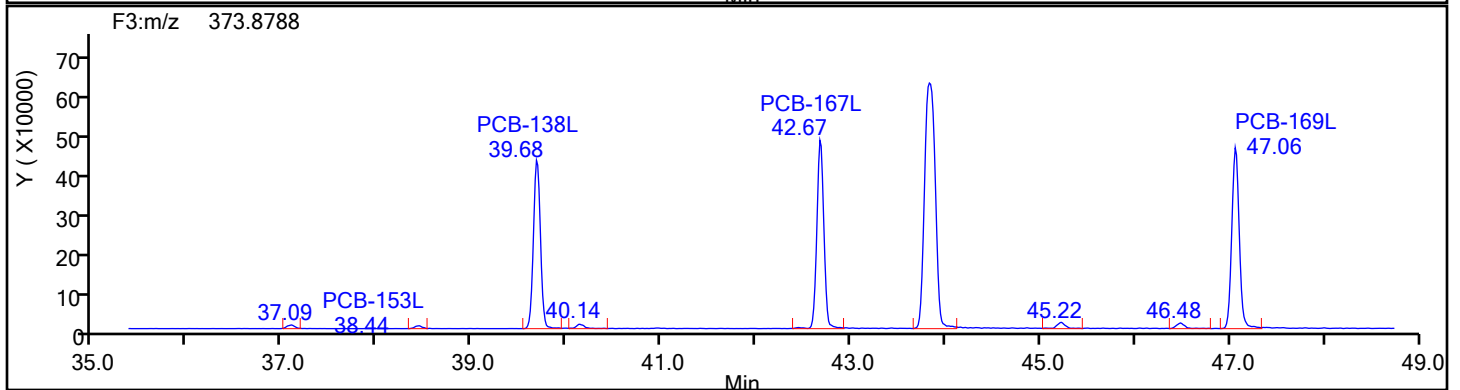
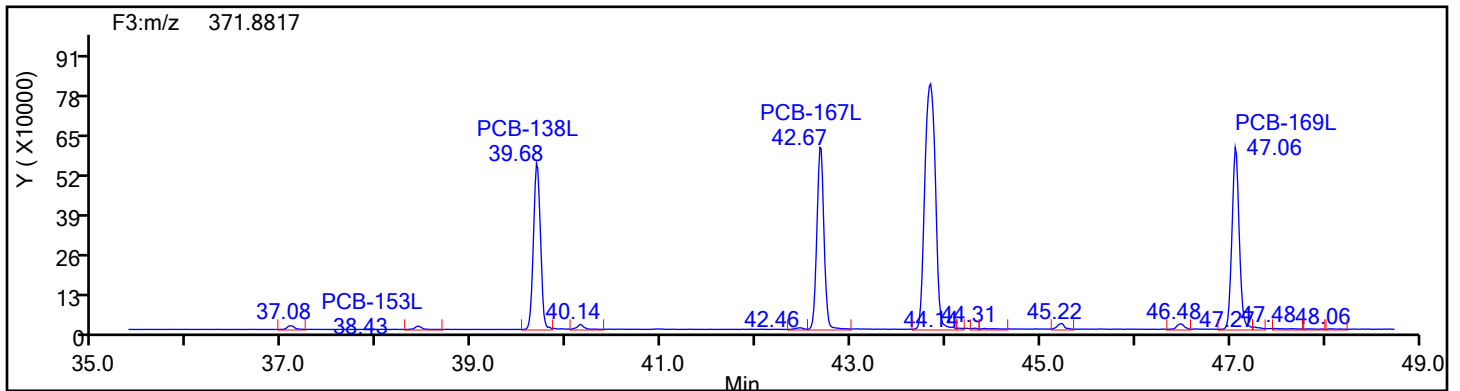
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Standards



Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Vol: 1.0 ul

Operator ID: Xcalibur System

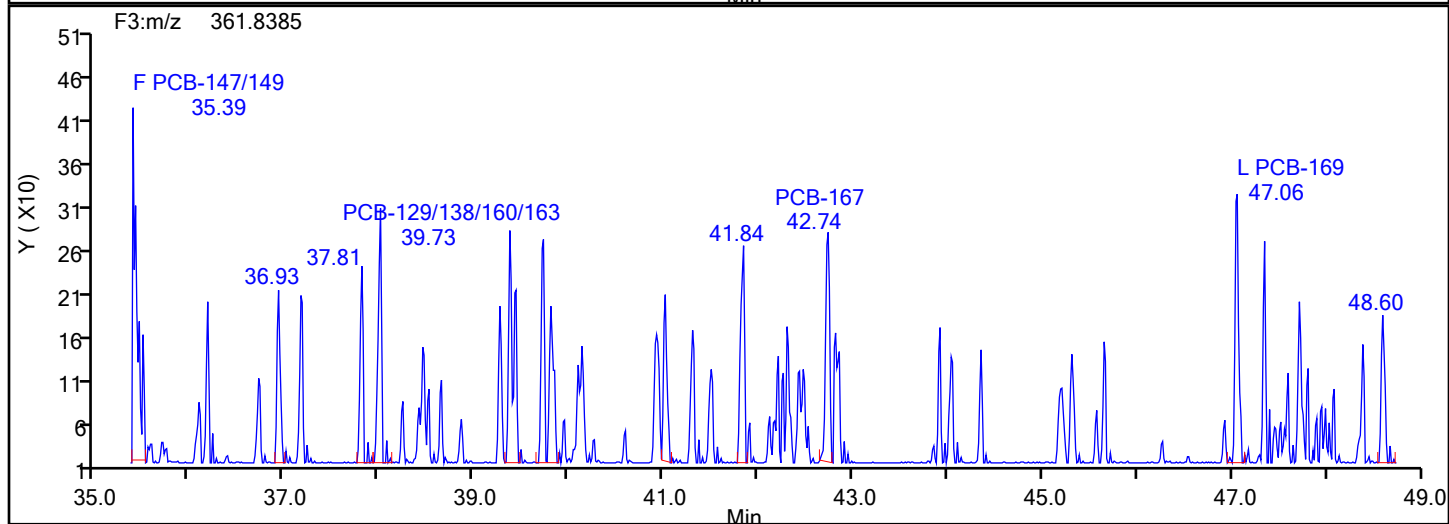
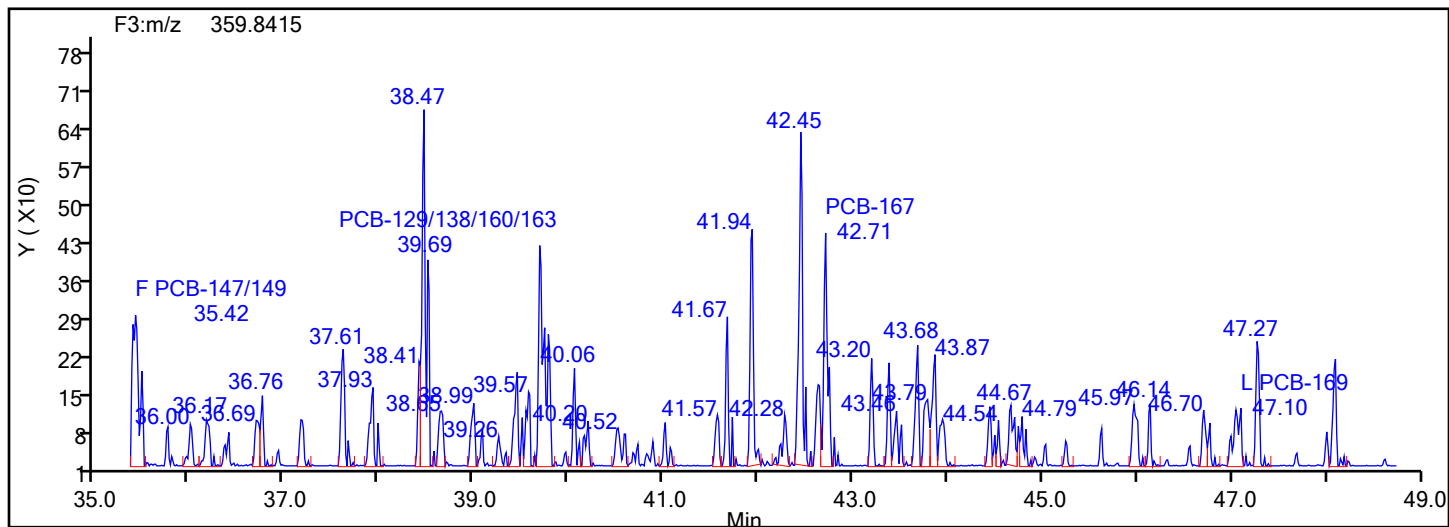
Limit Group: HR - EPA 23 PCB ICAL

Client ID:

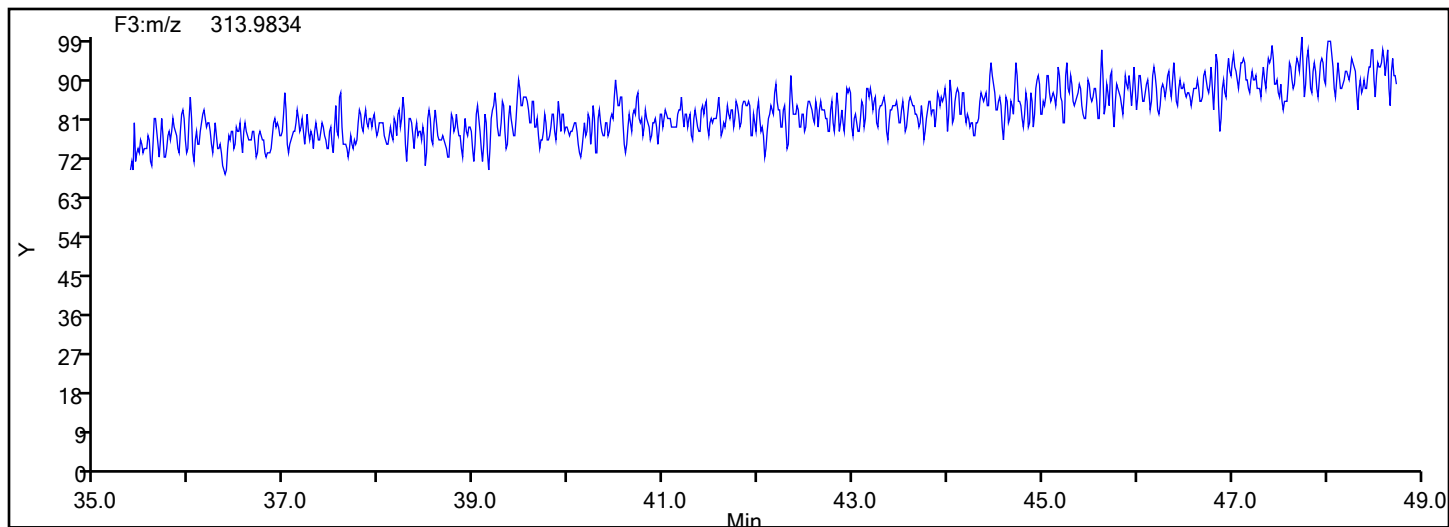
Sample Line#: 8

Column Dia: 0.25 mm

HxPCB F3



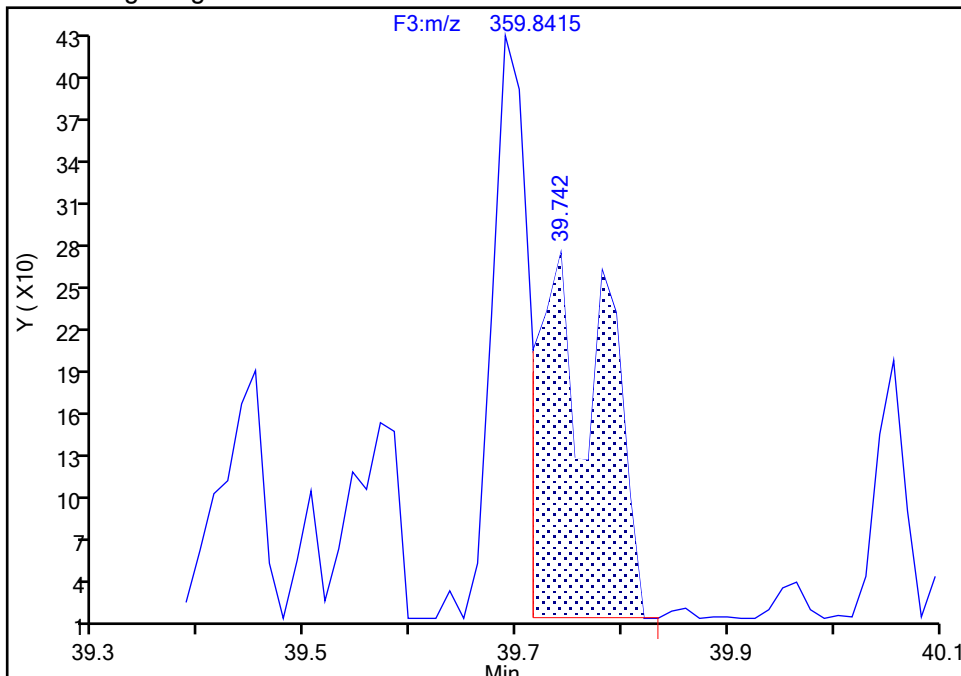
## HxPCB F3 Lock Mass



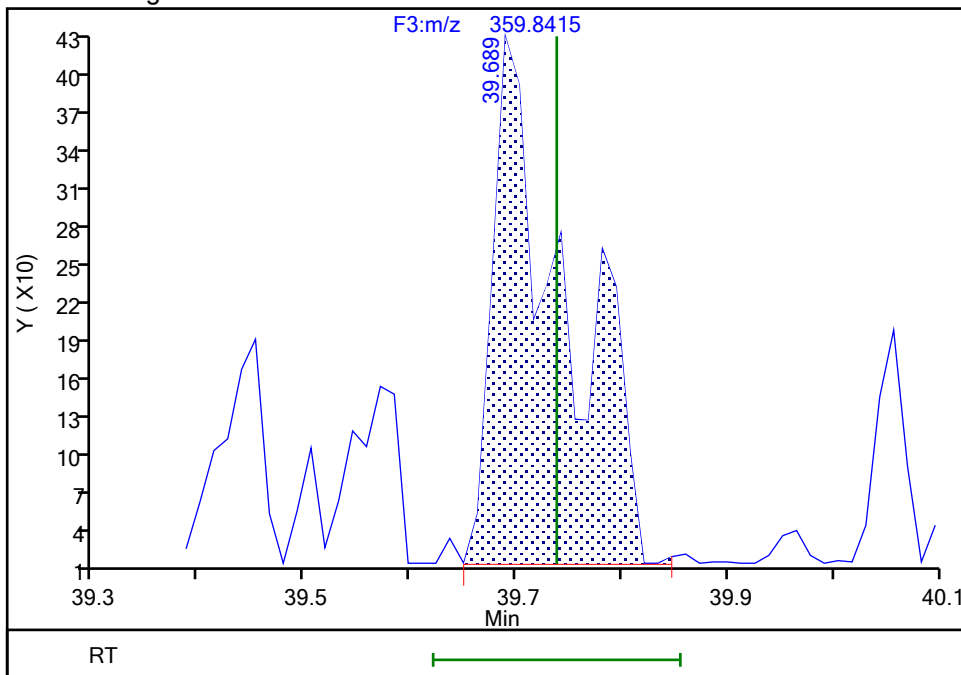
Data File:	\\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d			
Injection Date:	28-Jun-2024 02:59:00	Instrument ID:	D2D	
Lims ID:	MB 140-87624/21-B			
Client ID:				
Operator ID:	Xcalibur_System	ALS Bottle#:	0	Worklis
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	
Method:	PCBs_D2D	Limit Group:	HR - EPA_23 PCB	
Column:	SPB-Octyl ( 0.25 mm)	Detector	F3(35.64 :49.10 )	

Signal: 1

## Processing Integration Results



## Manual Integration Results



### Audit Reason: Incomplete Integration

## Eurofins Knoxville

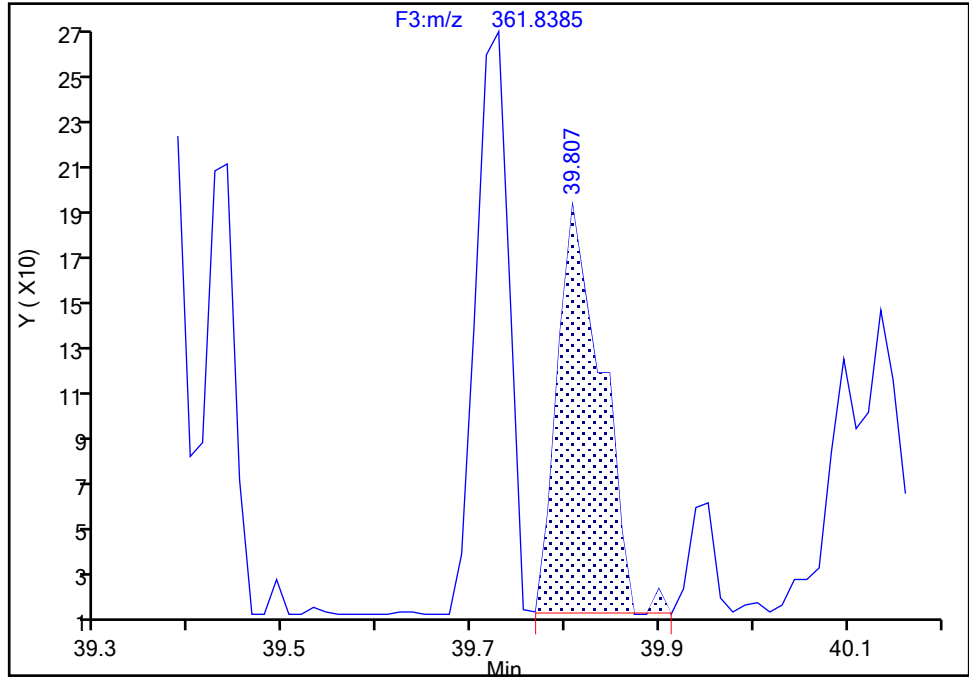
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d  
Injection Date: 28-Jun-2024 02:59:00 Instrument ID: D2D  
Lims ID: MB 140-87624/21-B  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

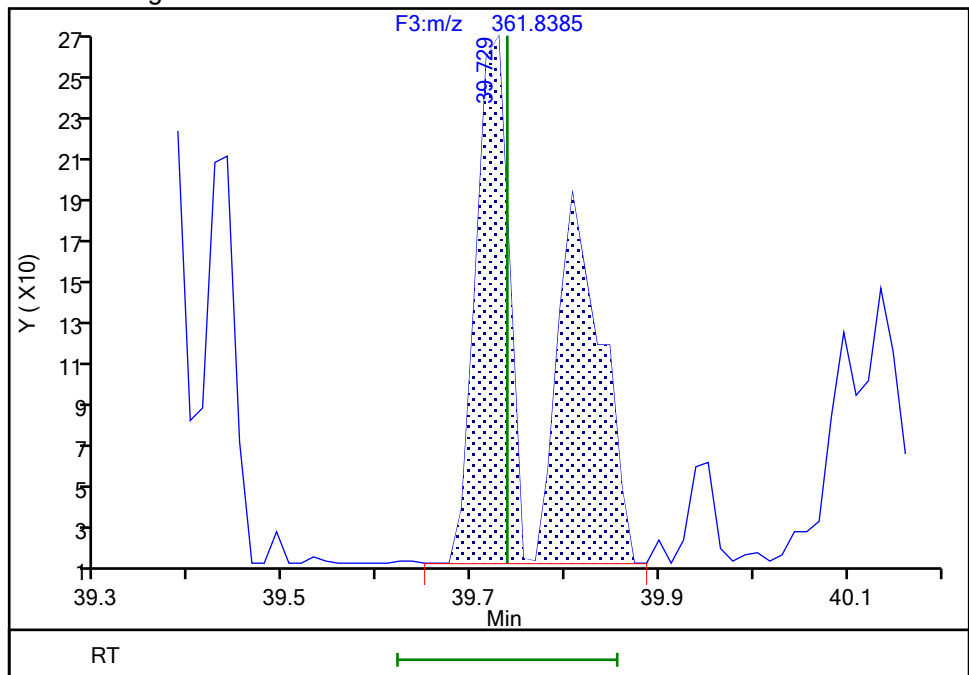
RT: 39.81  
Area: 581  
Amount: 0.029862  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.73  
Area: 1182  
Amount: 0.057204  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:40:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Instrument ID: D2D

Lims ID: MB 140-87624/21-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

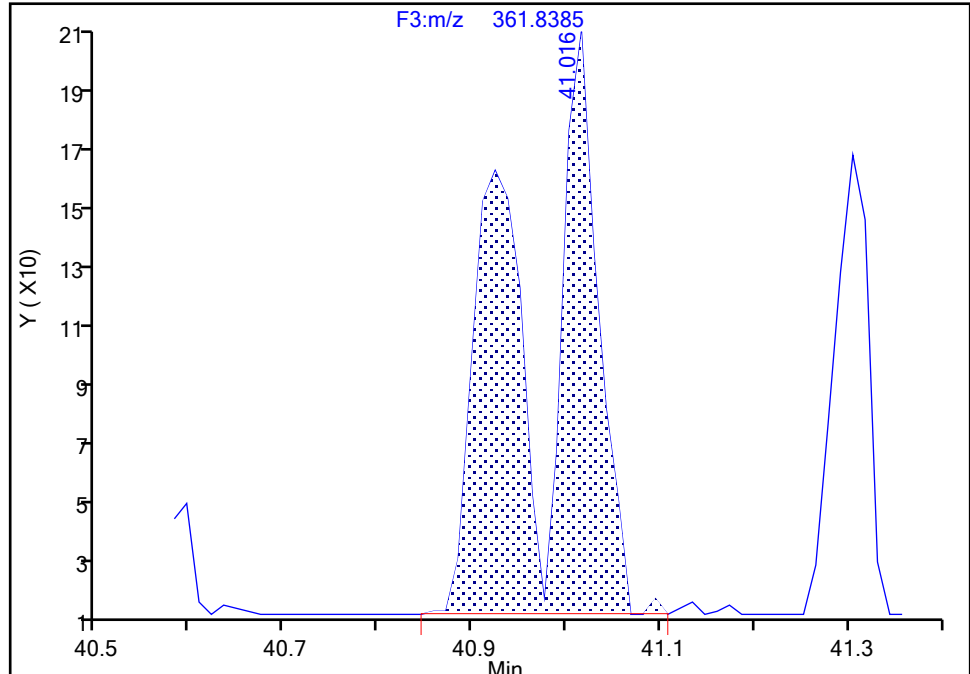
F3(35.64 :49.10 )

**PCB-128/166, CAS: STL01816**

Signal: 2

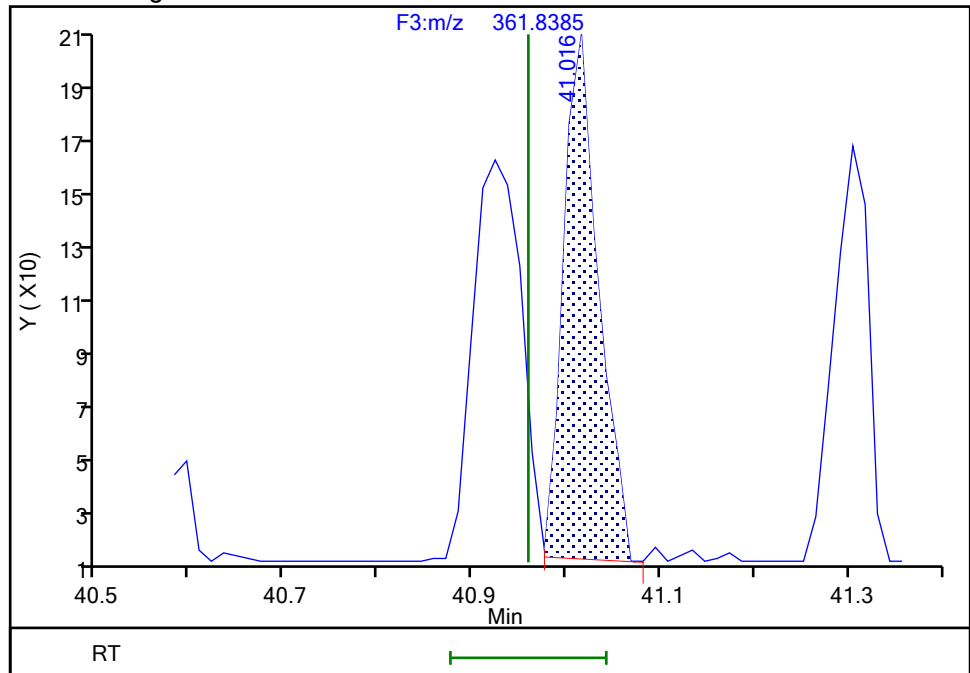
RT: 41.02  
Area: 1011  
Amount: 0.021600  
Amount Units: pg/ul

## Processing Integration Results



RT: 41.02  
Area: 484  
Amount: 0.012200  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:41:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Instrument ID: D2D

Lims ID: MB 140-87624/21-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

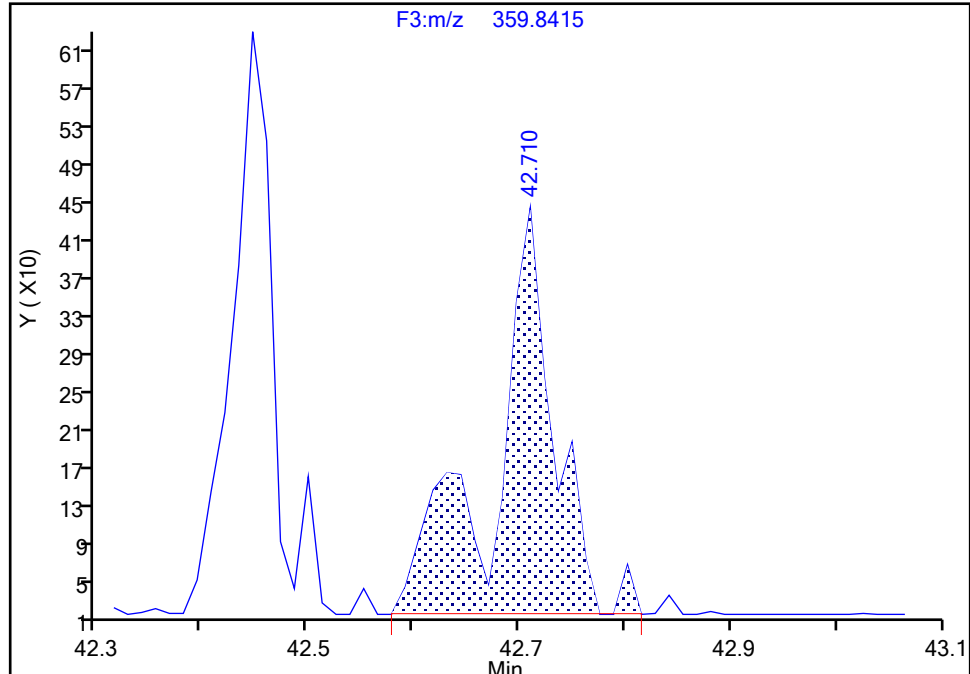
F3(35.64 :49.10 )

**PCB-167, CAS: 52663-72-6**

Signal: 1

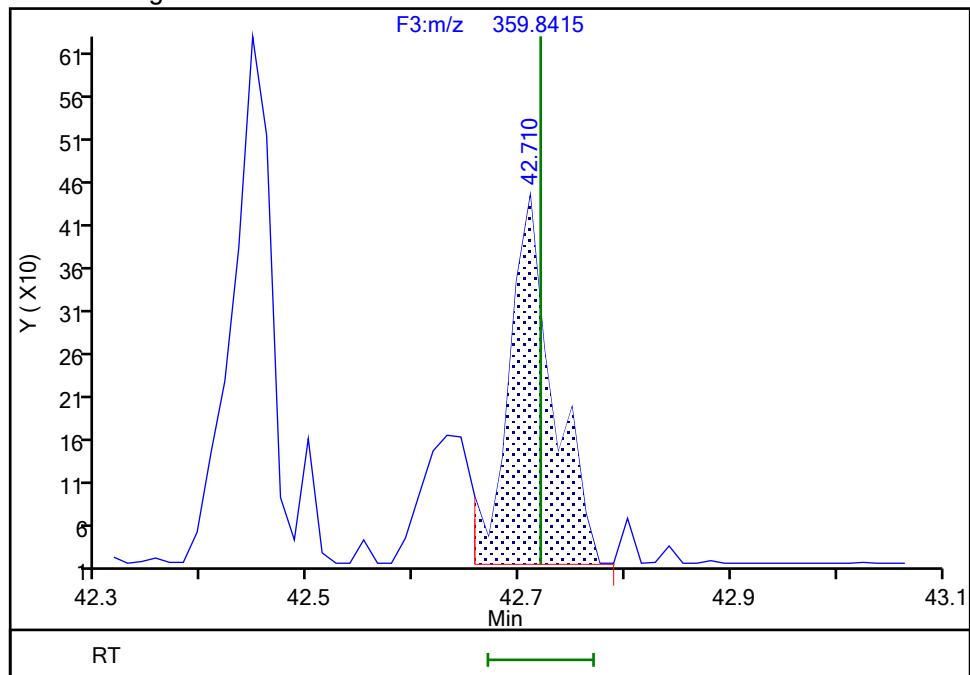
RT: 42.71  
Area: 1702  
Amount: 0.039188  
Amount Units: pg/ul

## Processing Integration Results



RT: 42.71  
Area: 1225  
Amount: 0.031626  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:41:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Instrument ID: D2D

Lims ID: MB 140-87624/21-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#: 0 Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

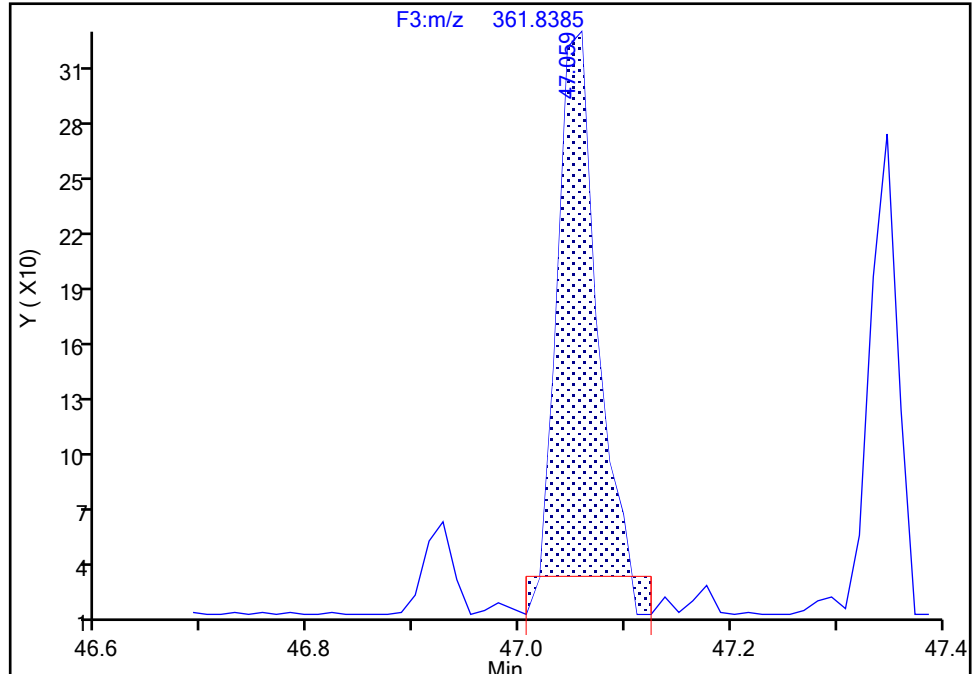
Detector F3(35.64 :49.10 )

**PCB-169, CAS: 32774-16-6**

Signal: 2

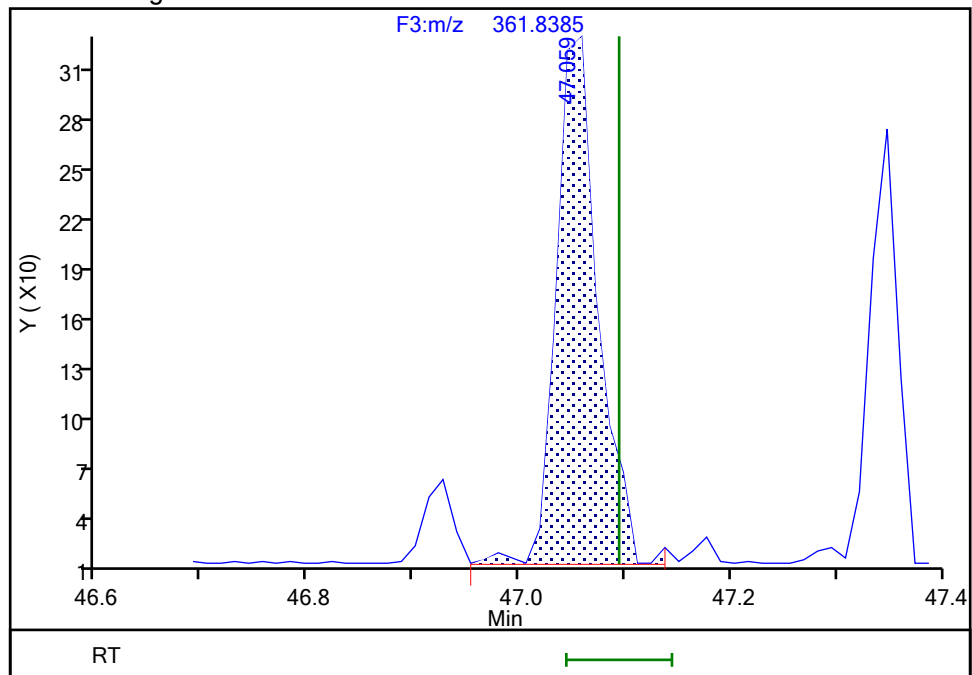
RT: 47.06  
Area: 671  
Amount: 0.018405  
Amount Units: pg/ul

## Processing Integration Results



RT: 47.06  
Area: 825  
Amount: 0.020698  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:41:36 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

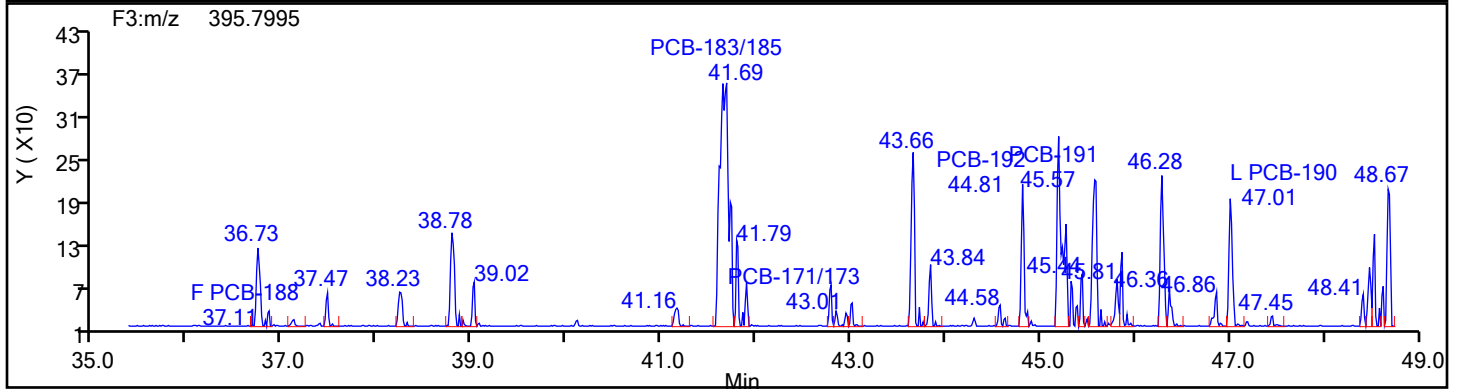
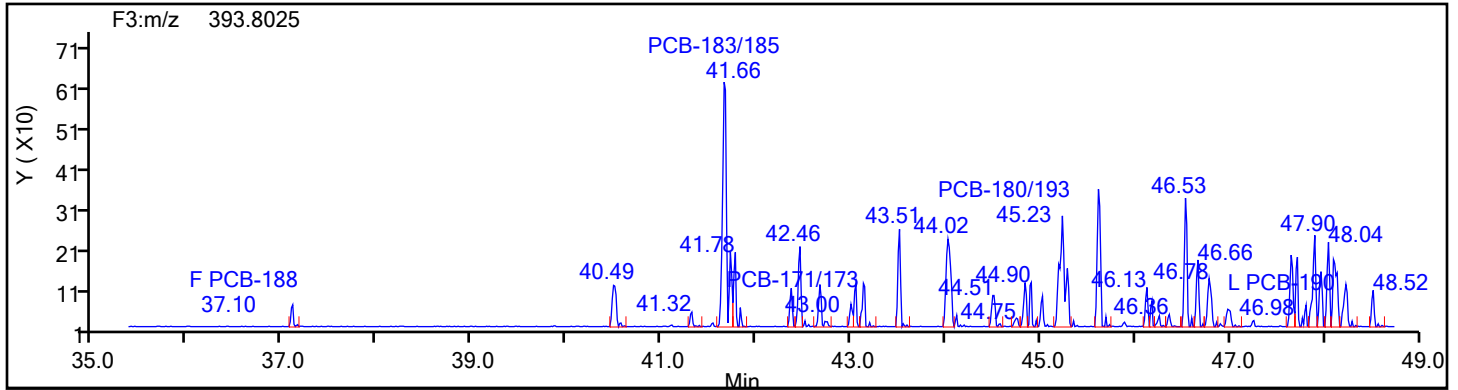
Worklist#: 88205

Sample Line#: 8

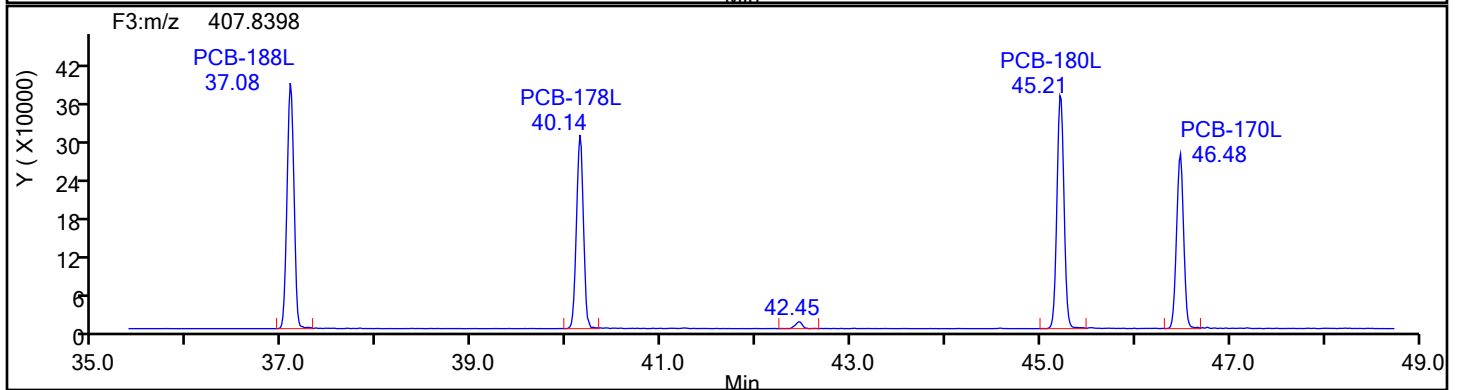
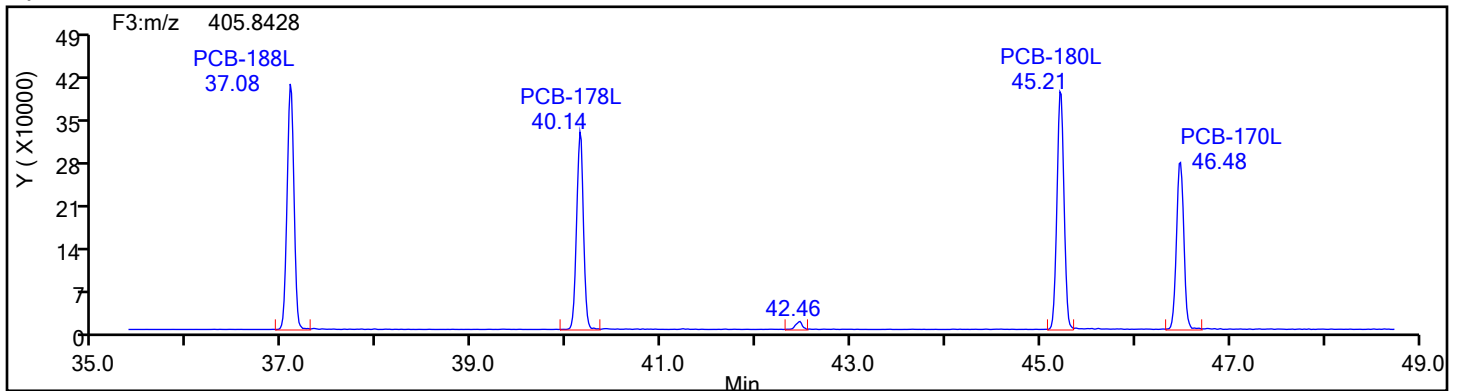
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



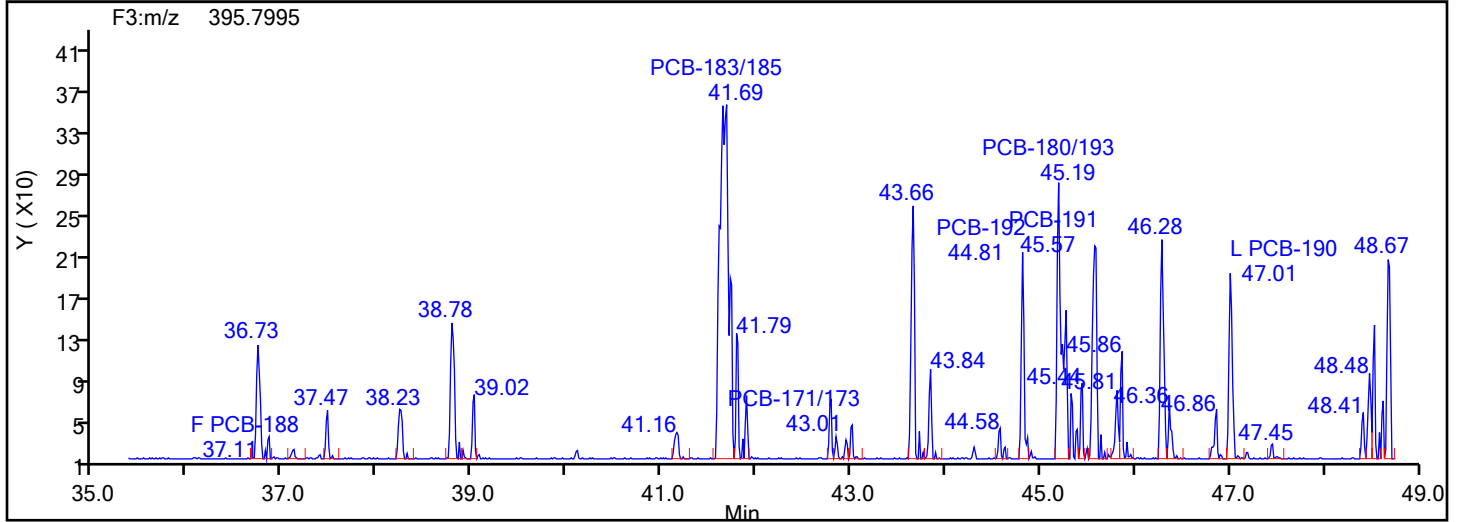
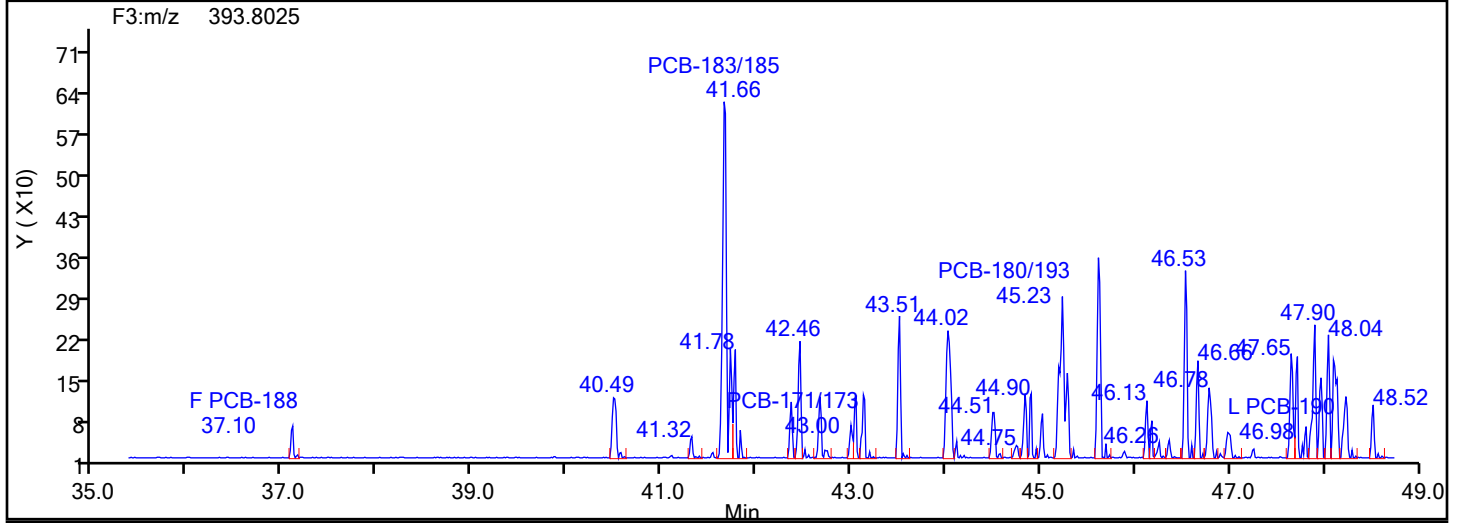
HpPCB F3 Standards



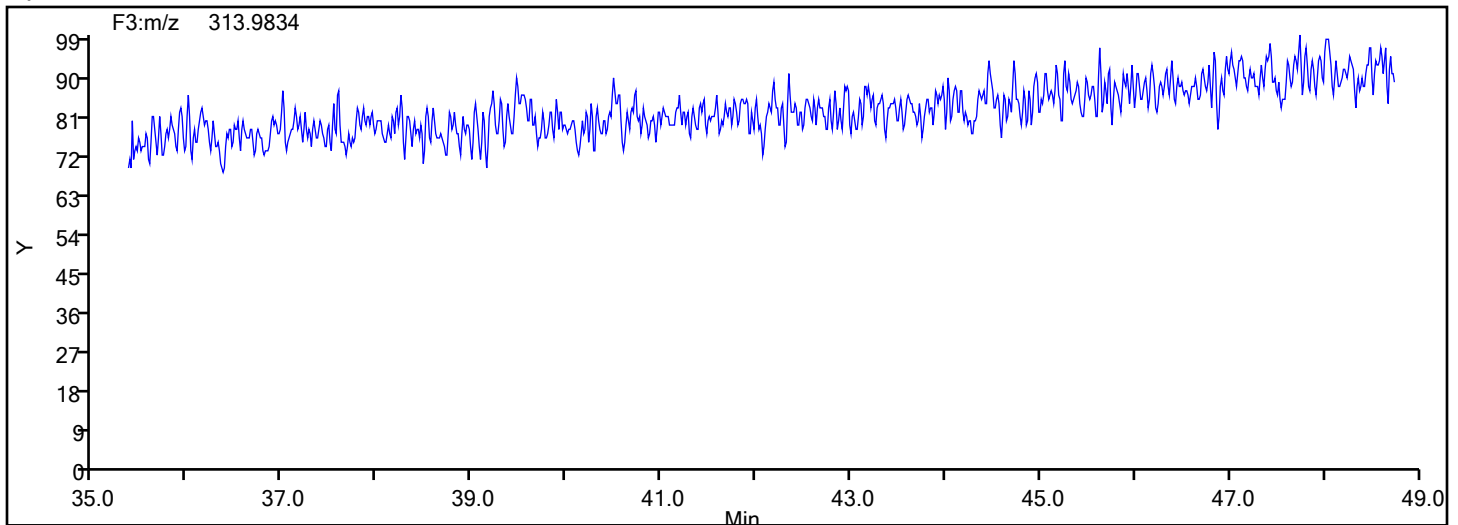


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d  
Injection Date: 28-Jun-2024 02:59:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 8  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Instrument ID: D2D

Lims ID: MB 140-87624/21-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

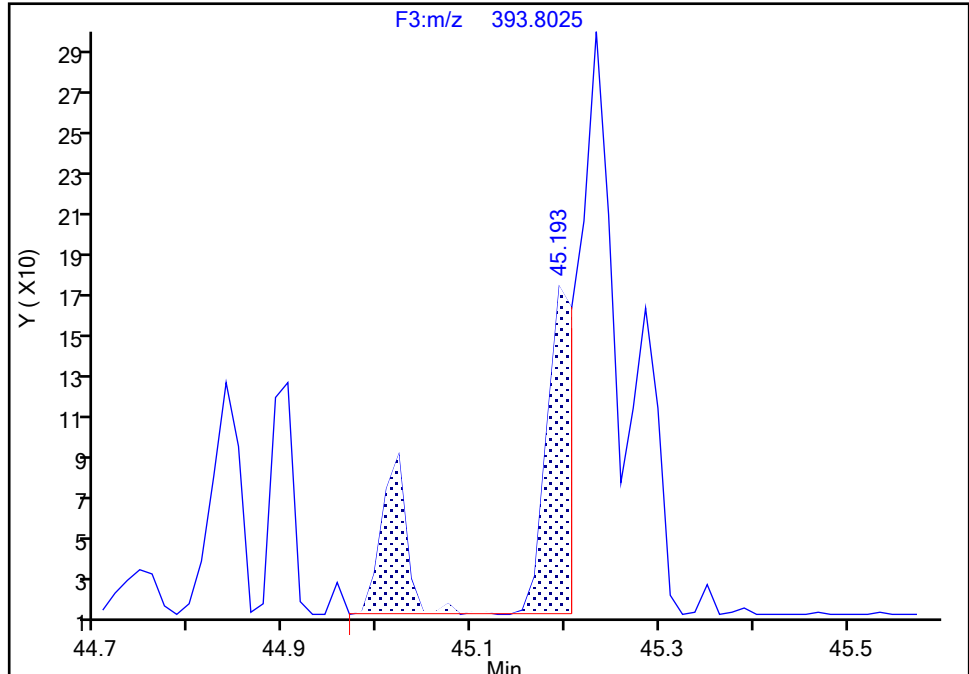
F3(35.64 :49.10 )

**PCB-180/193, CAS: STL01824**

Signal: 1

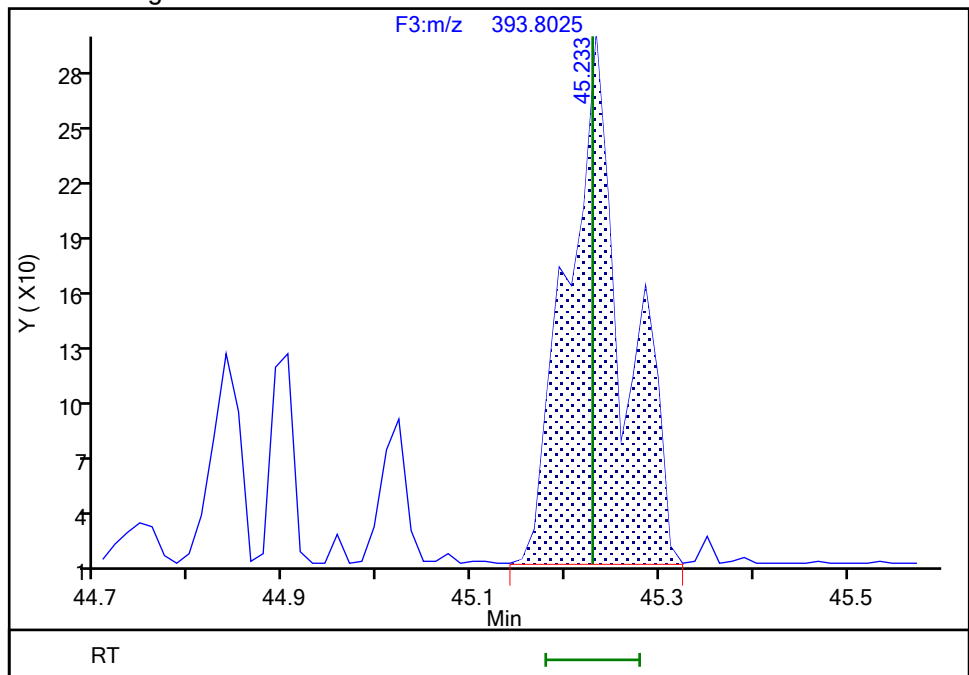
RT: 45.19  
Area: 404  
Amount: 0.034705  
Amount Units: pg/ul

## Processing Integration Results



RT: 45.23  
Area: 1151  
Amount: 0.053040  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:42:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

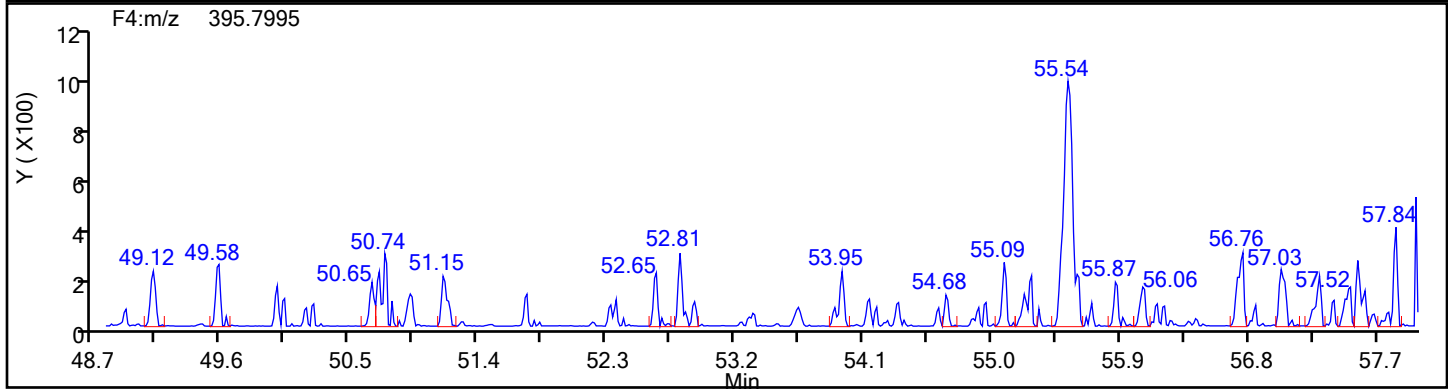
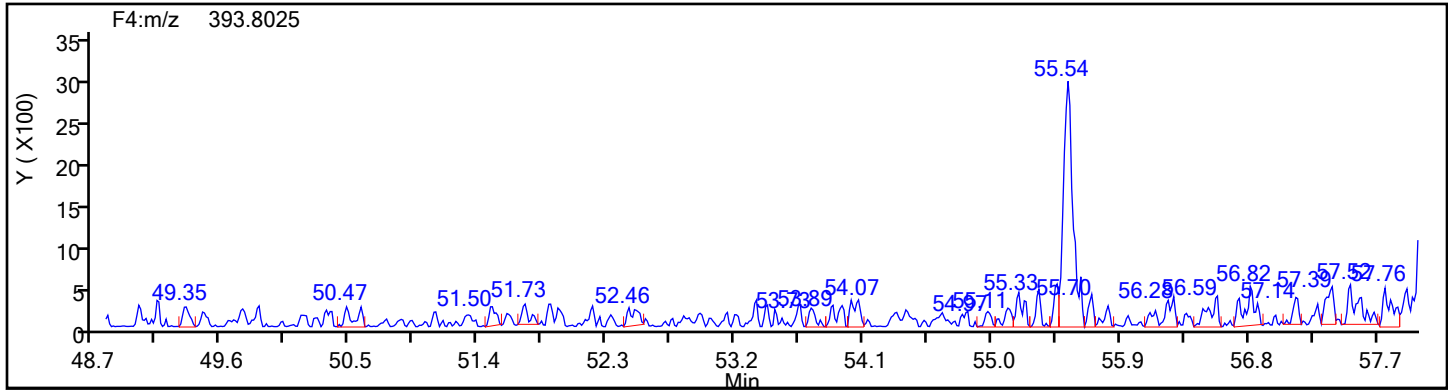
Worklist#: 88205

Sample Line#: 8

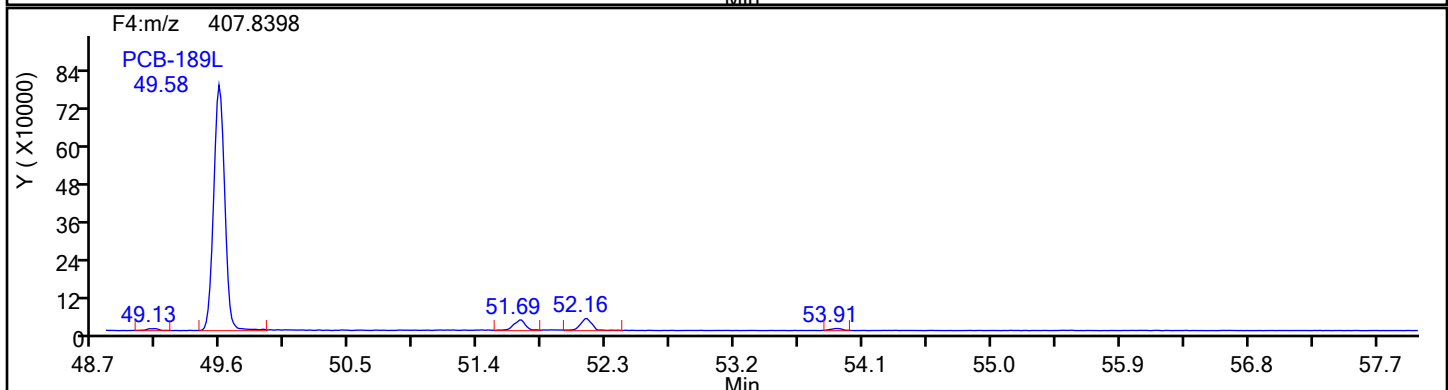
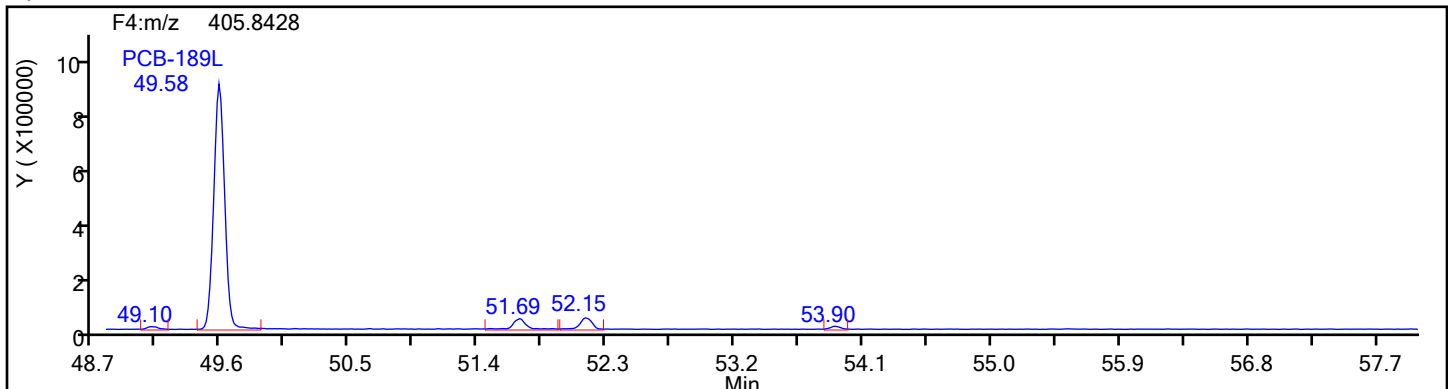
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

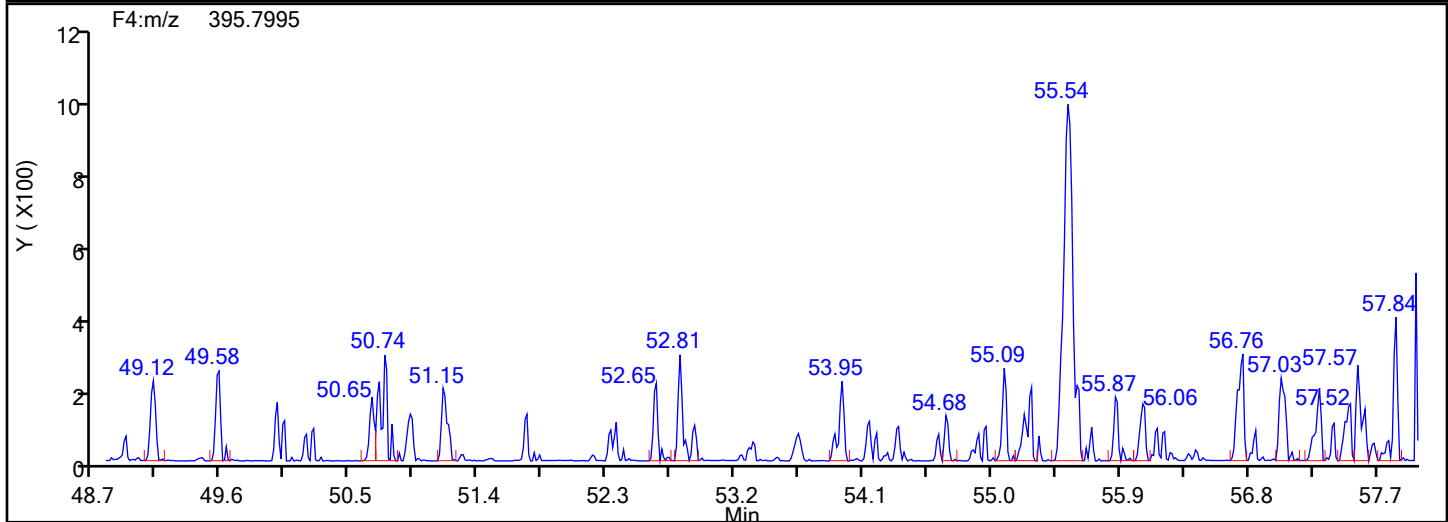
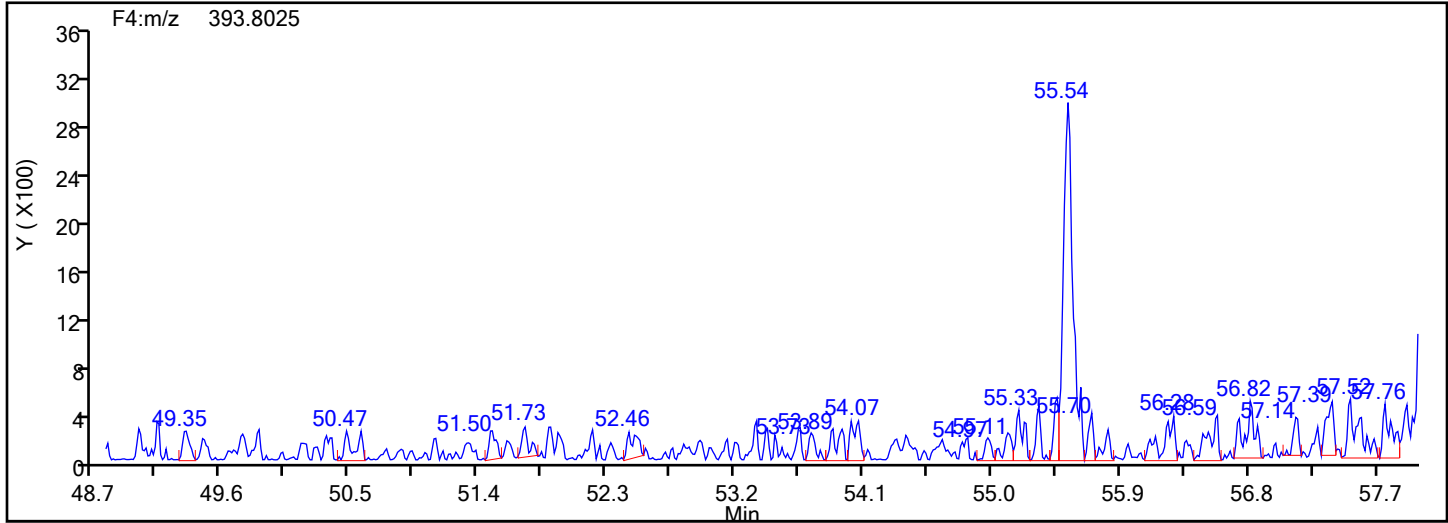
Worklist#: 88205

Sample Line#: 8

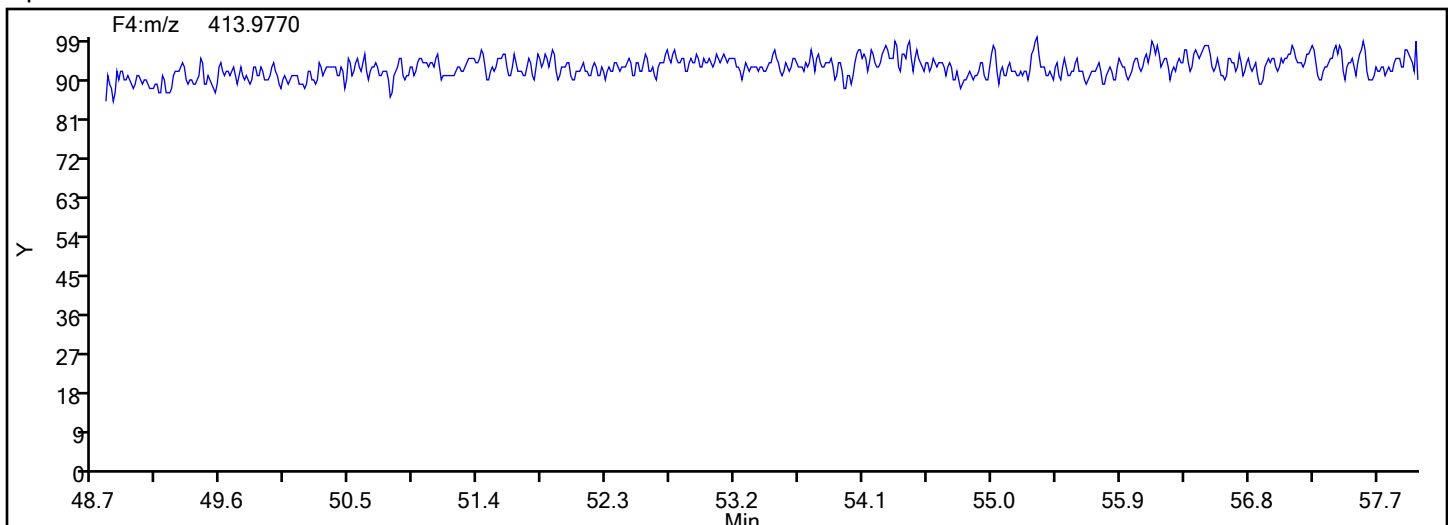
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

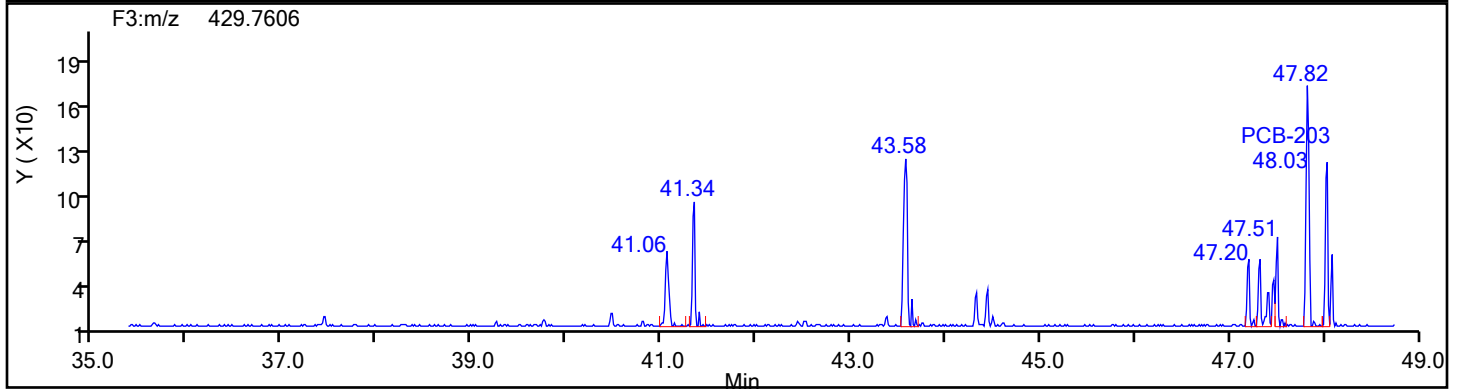
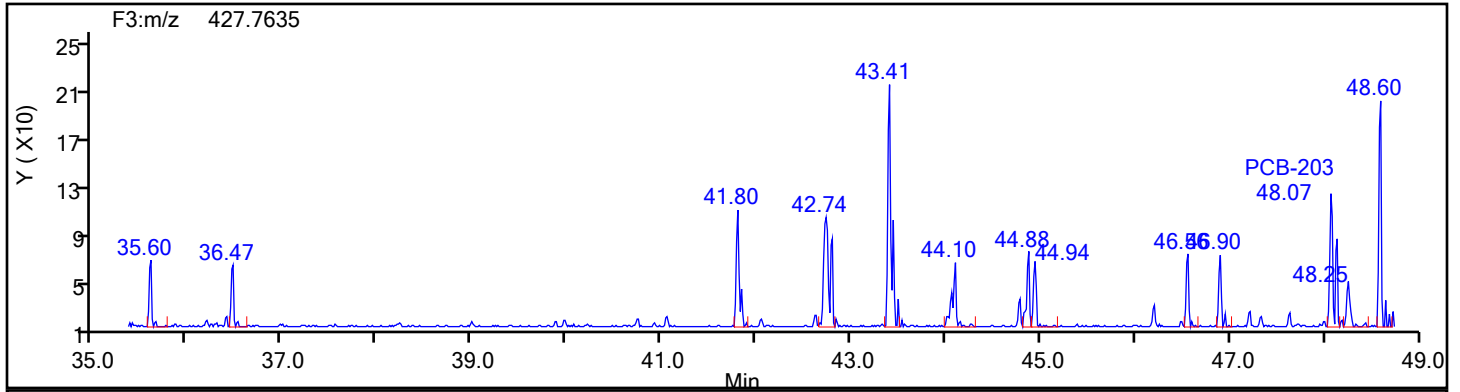
Worklist#: 88205

Sample Line#: 8

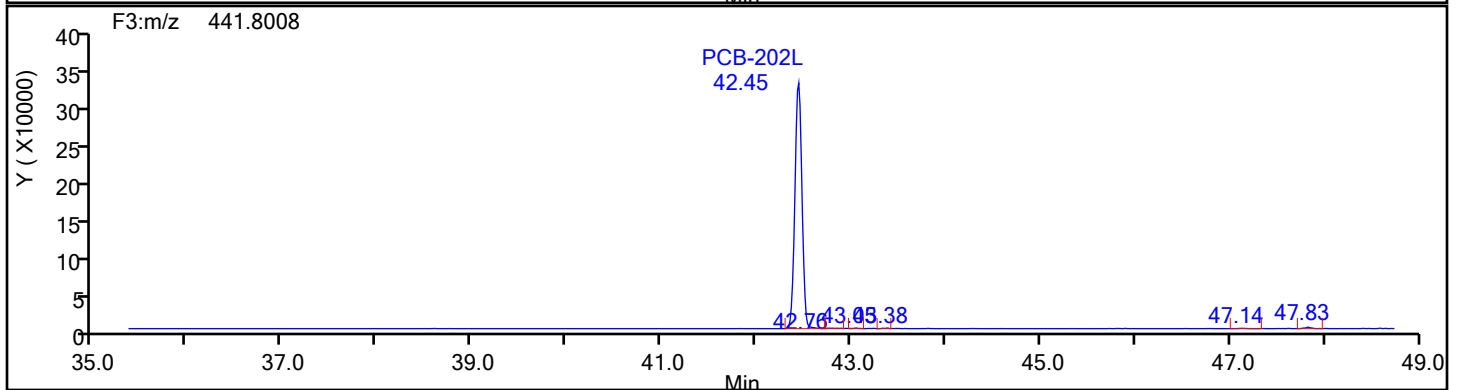
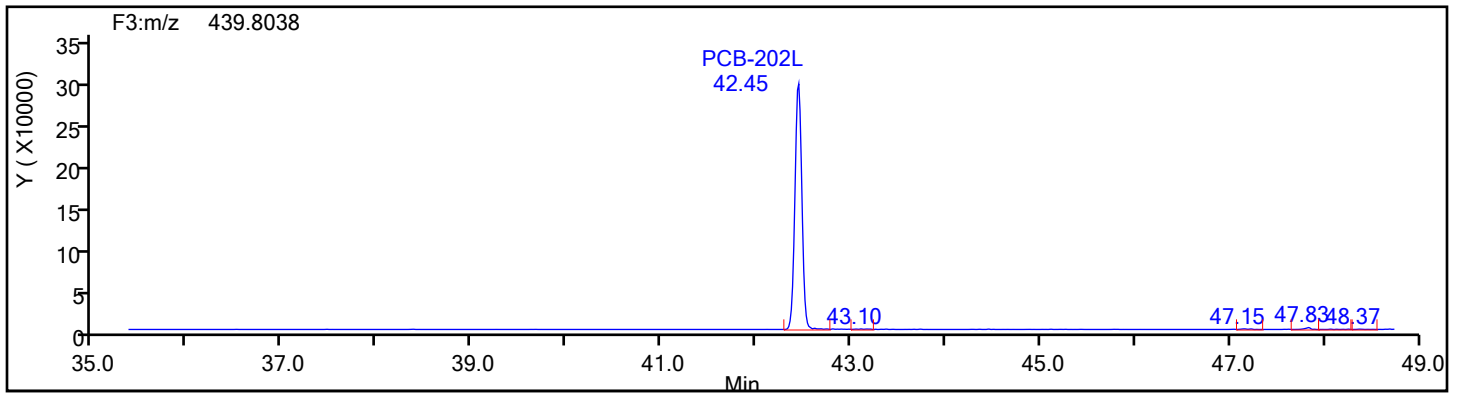
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

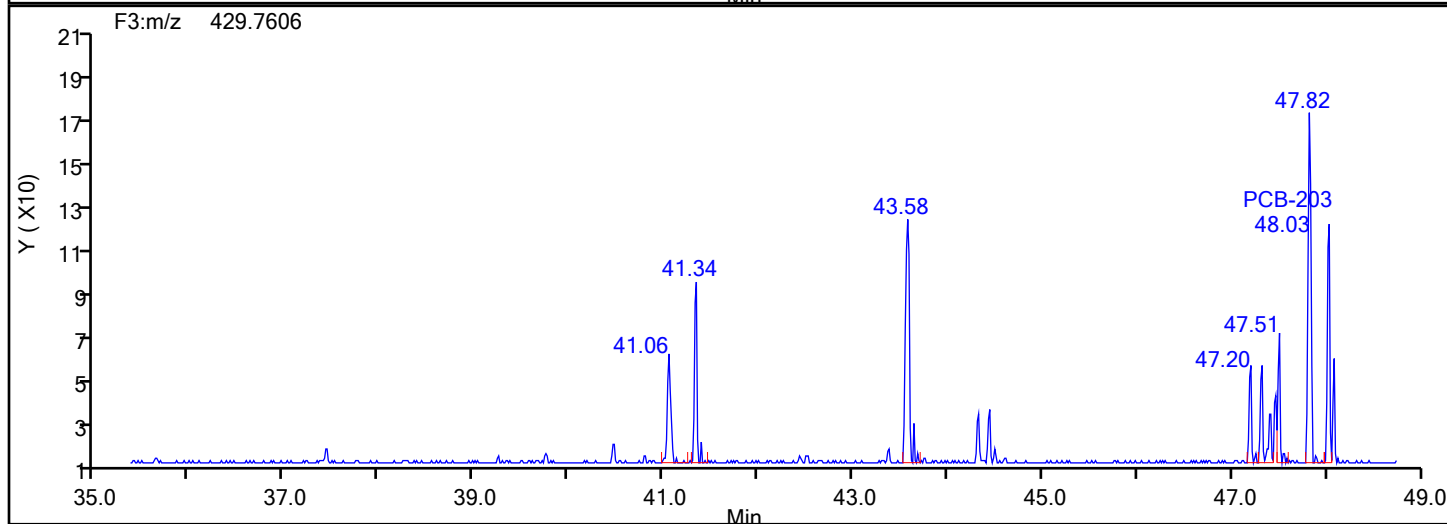
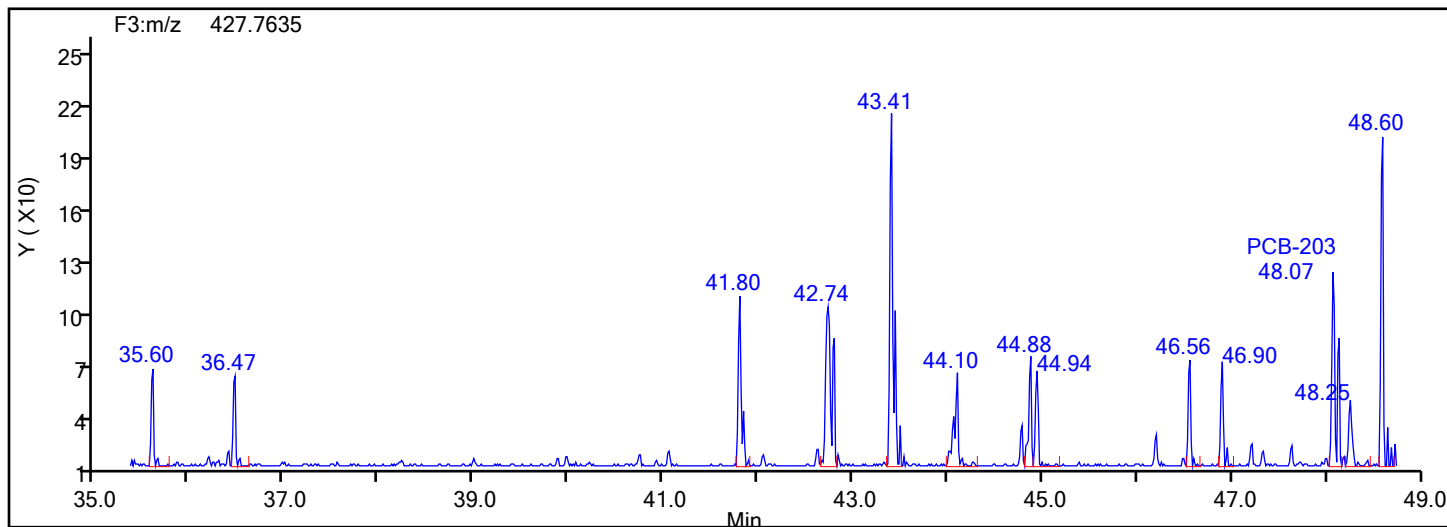
Worklist#: 88205

Sample Line#: 8

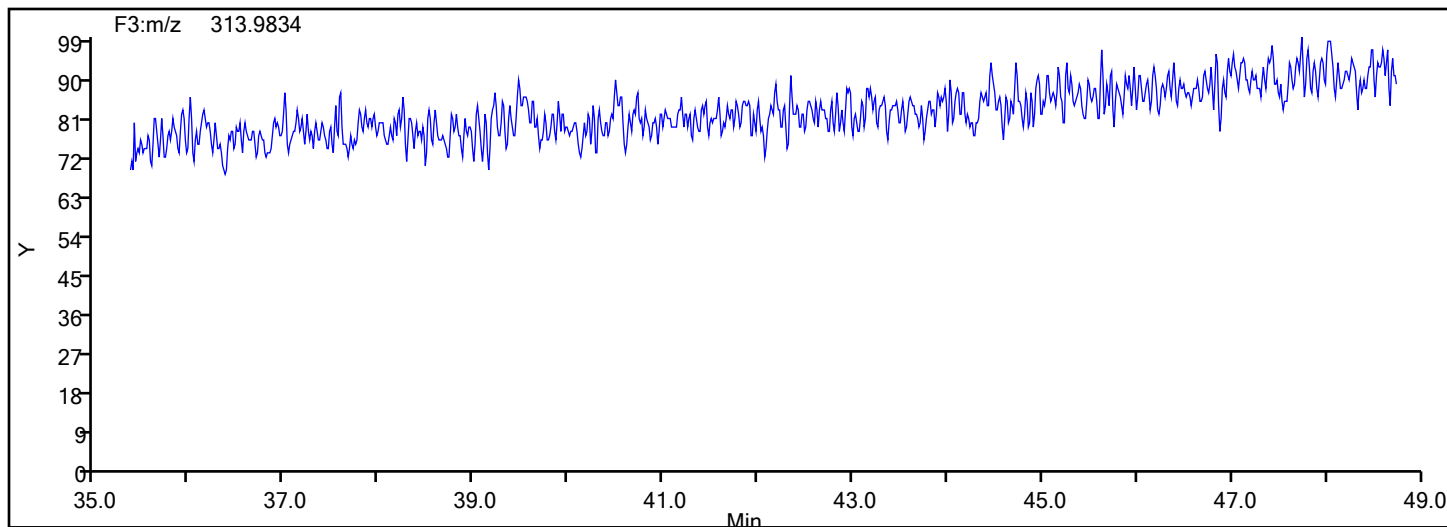
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



## OcPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

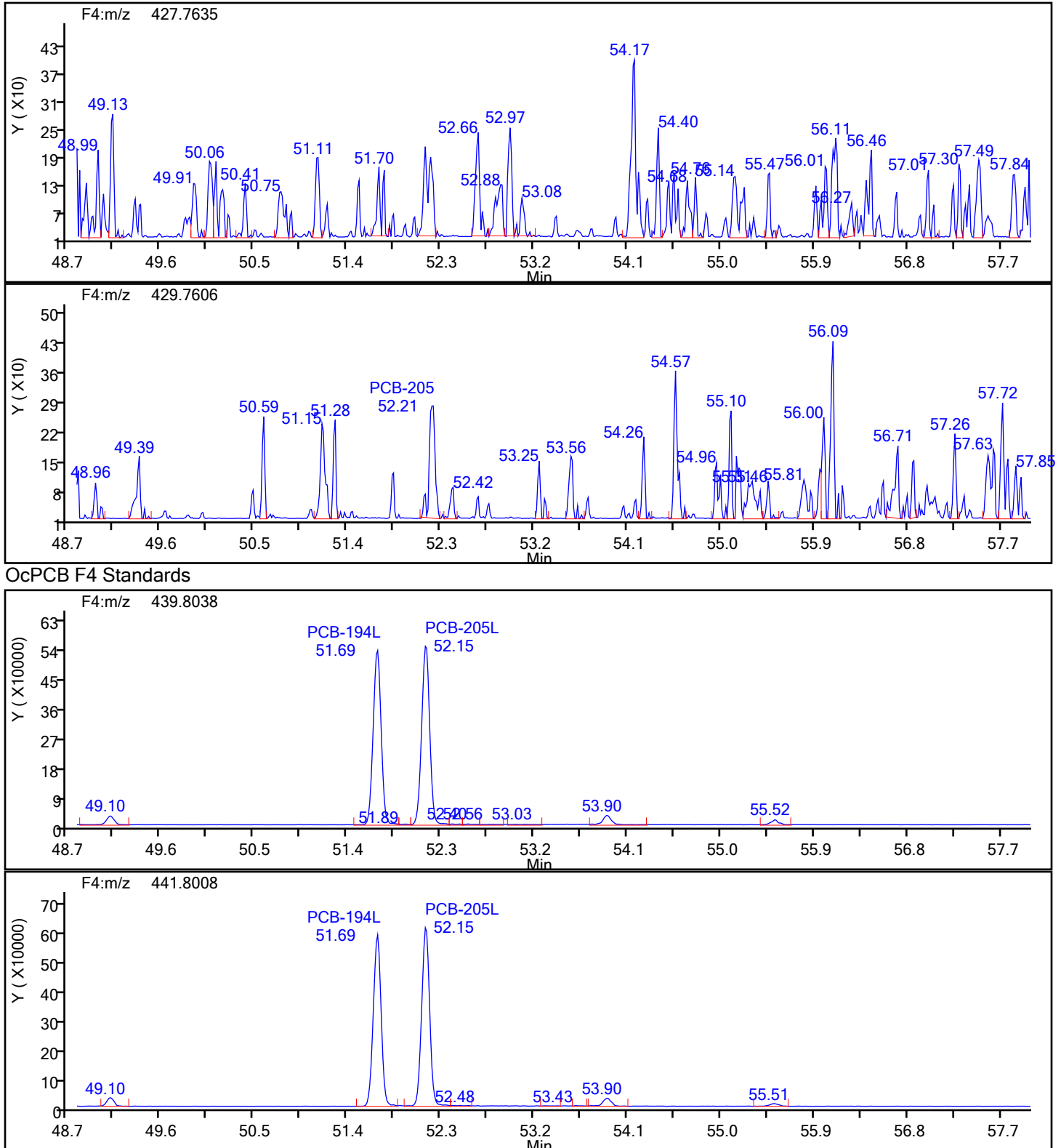
Worklist#: 88205

Sample Line#: 8

Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

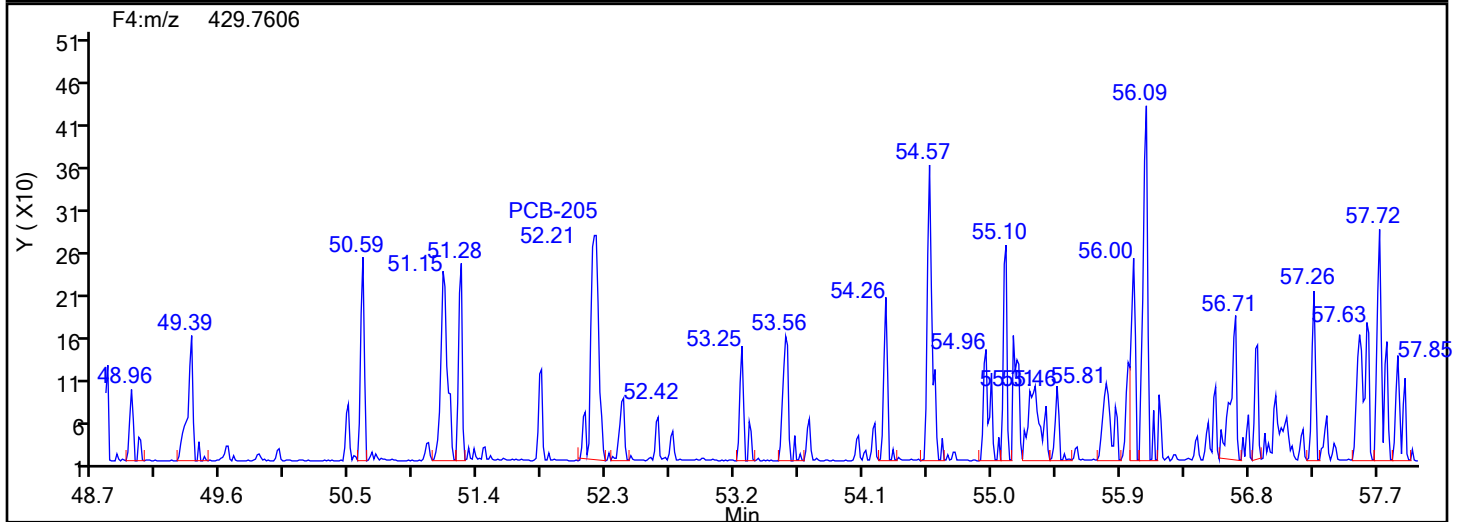
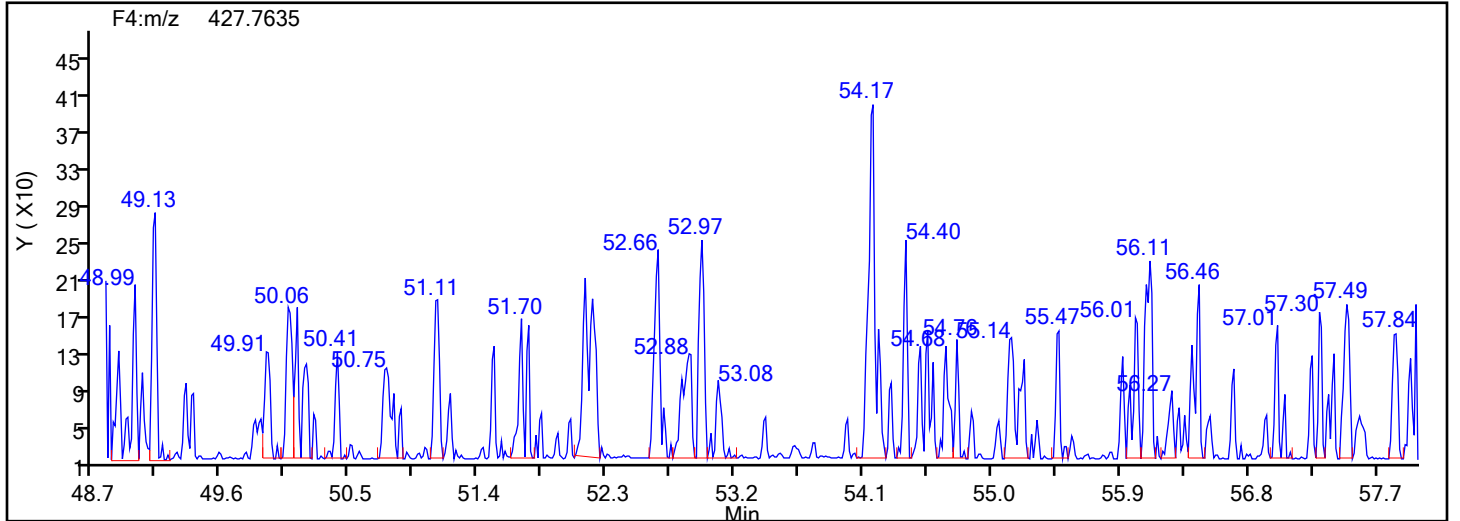
Worklist#: 88205

Sample Line#: 8

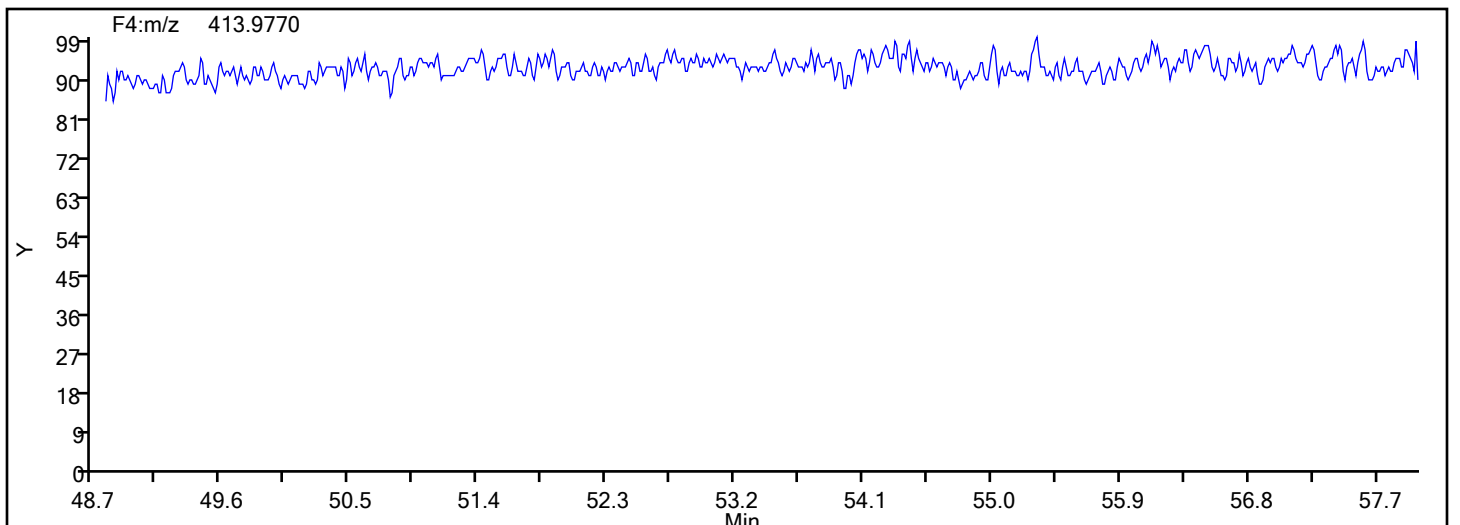
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



## OcPCB F4 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

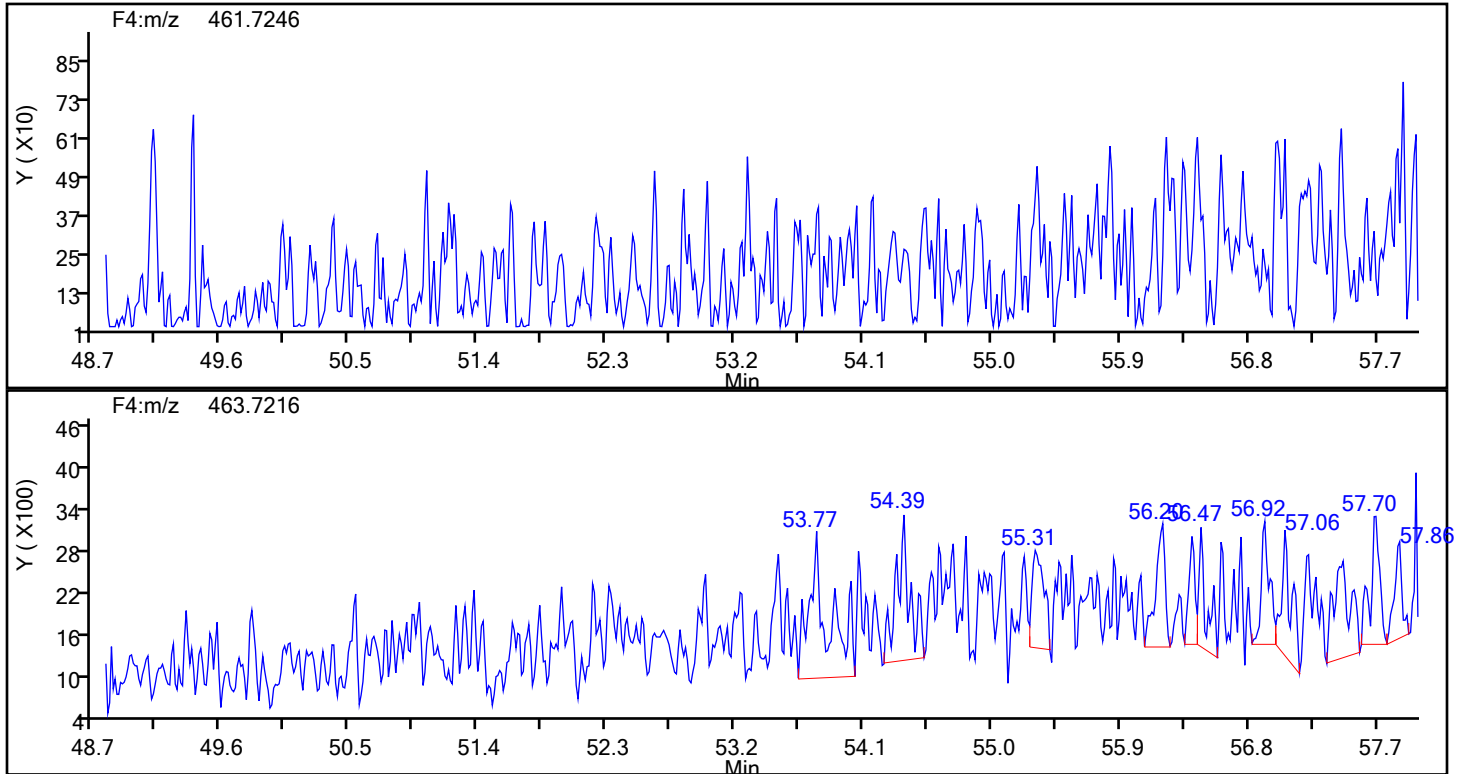
Worklist#: 88205

Sample Line#: 8

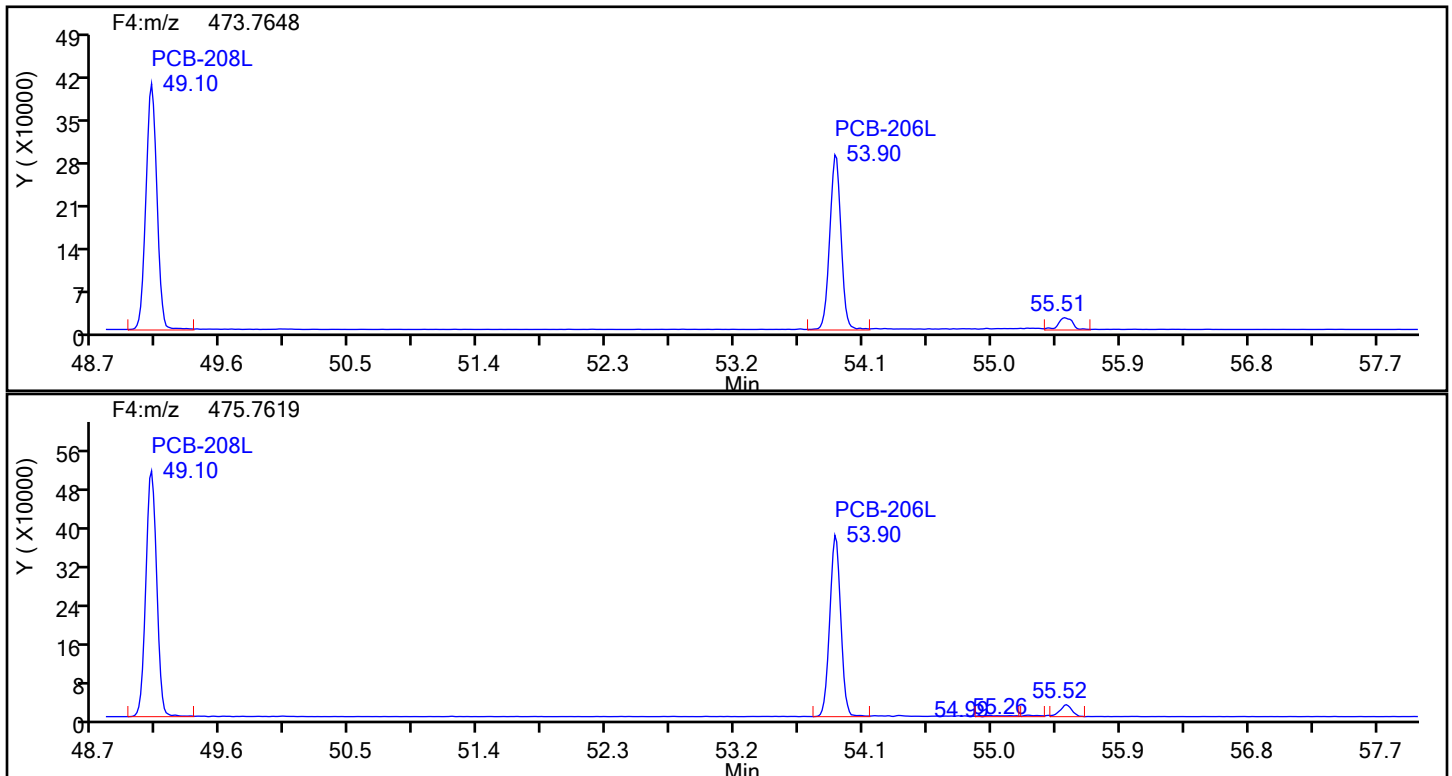
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

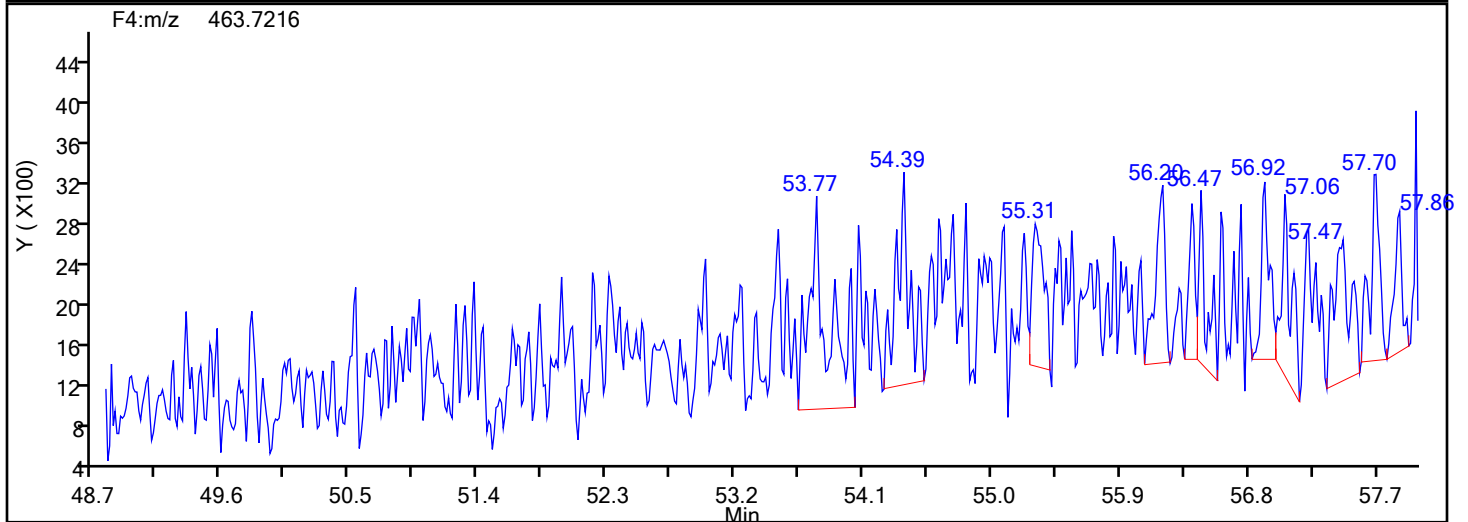
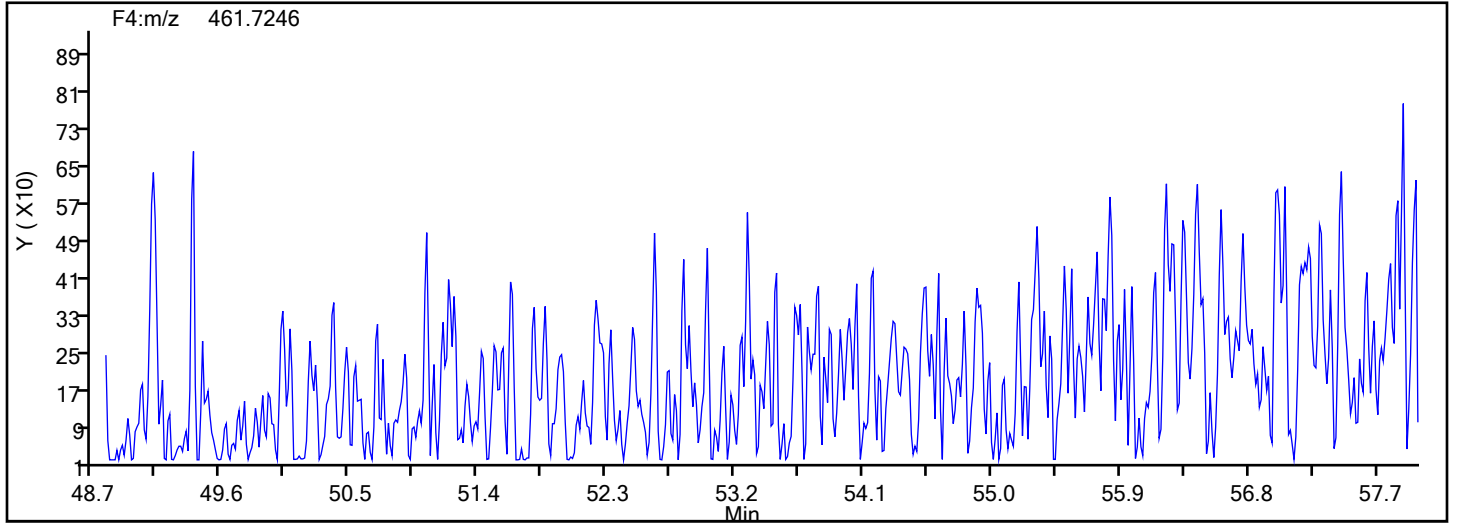
Worklist#: 88205

Sample Line#: 8

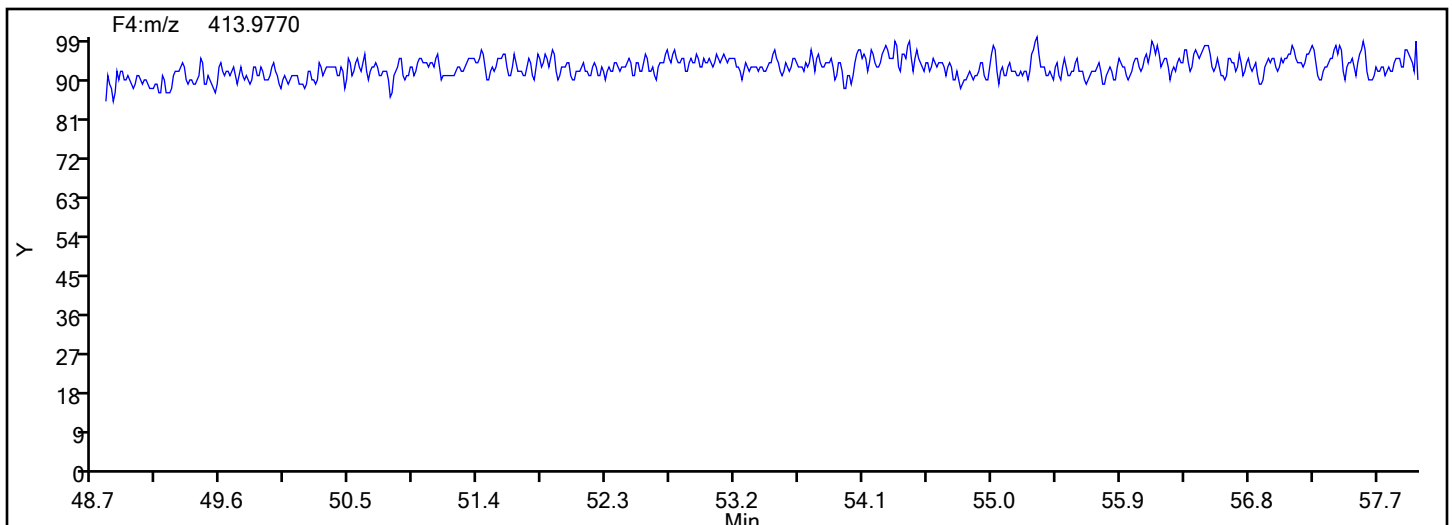
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



## NoPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

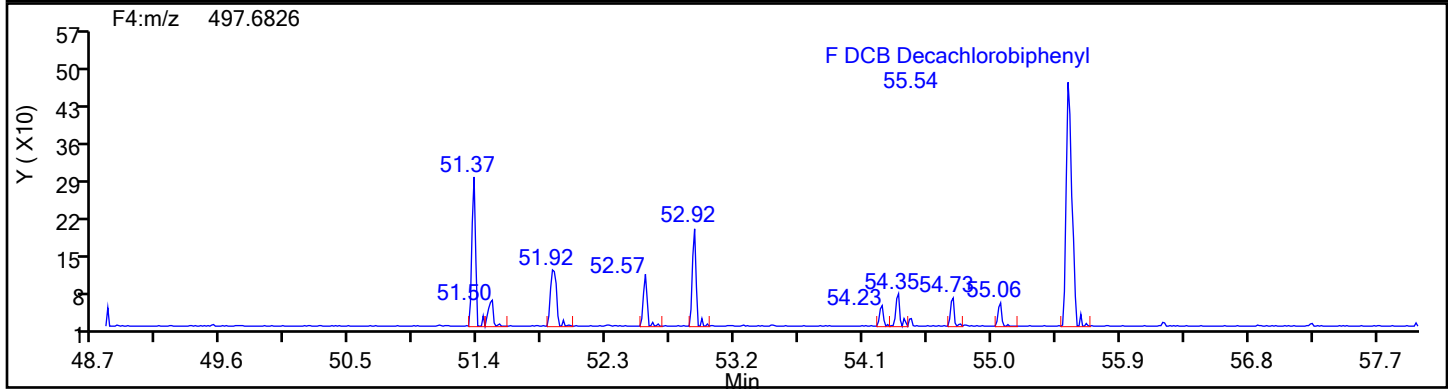
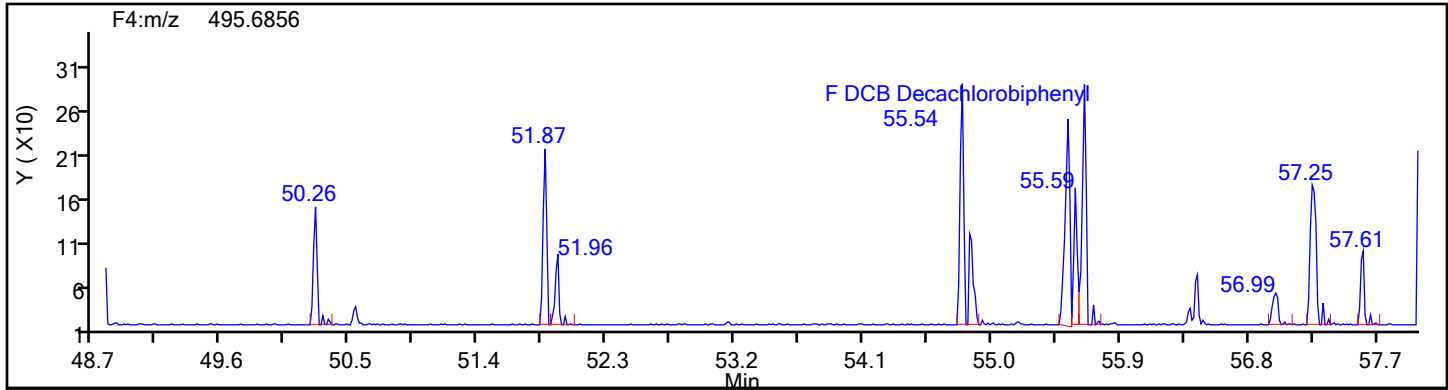
Worklist#: 88205

Sample Line#: 8

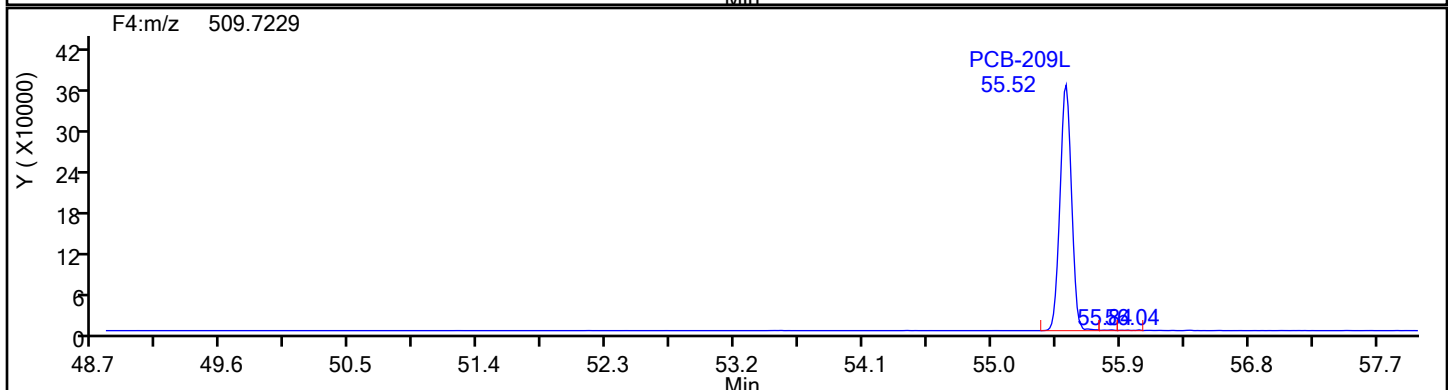
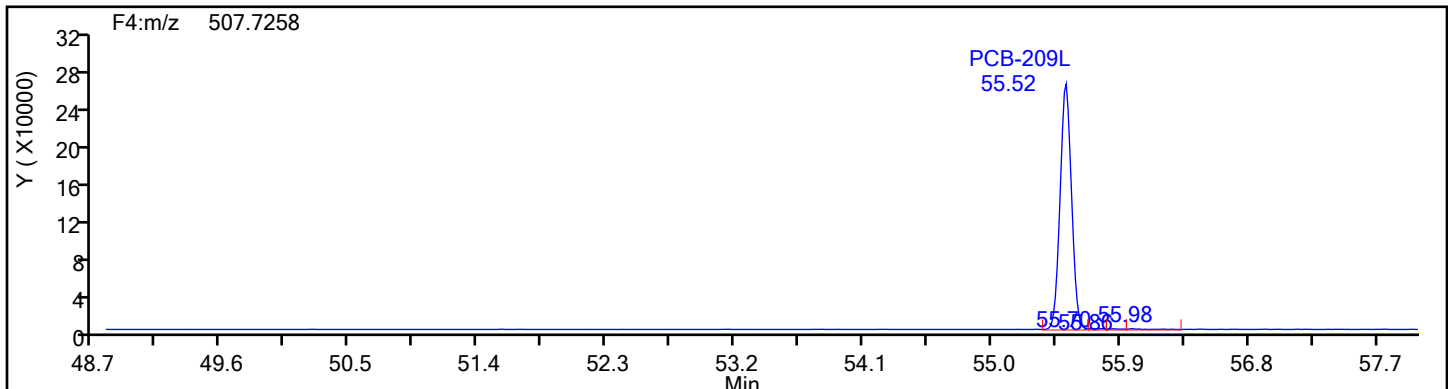
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d

Injection Date: 28-Jun-2024 02:59:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

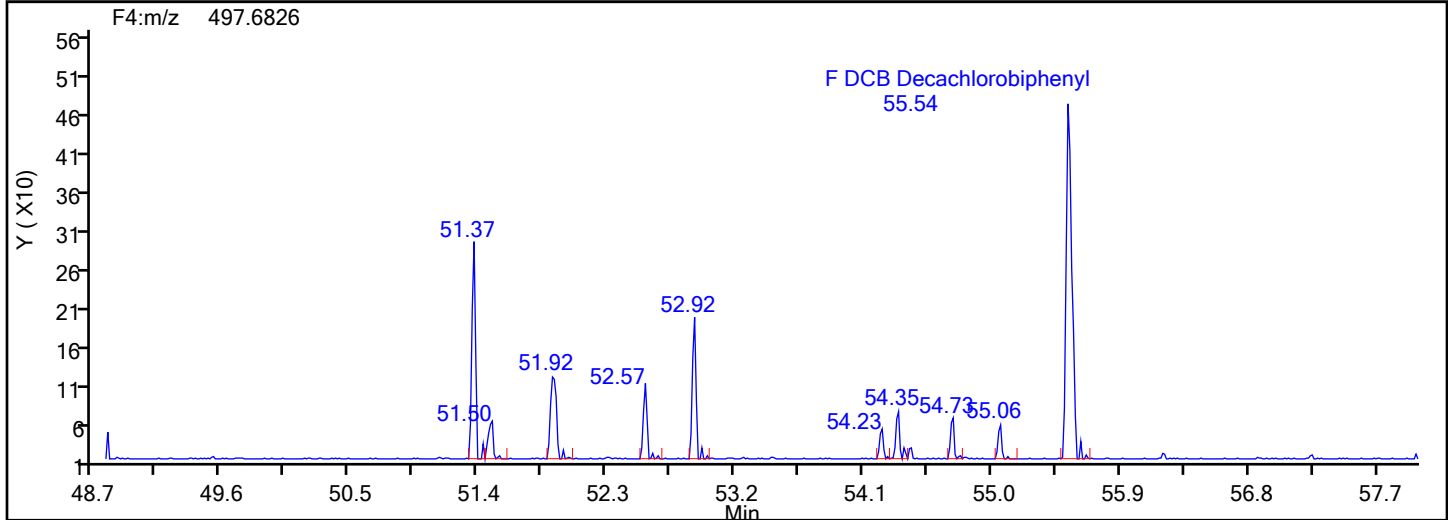
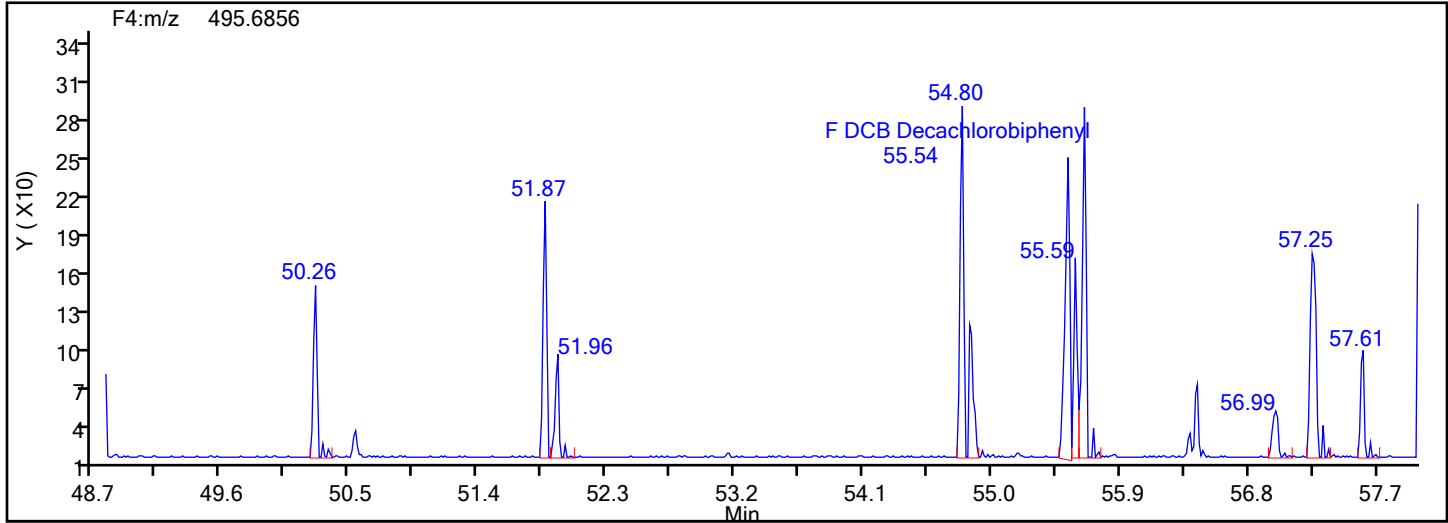
Worklist#: 88205

Sample Line#: 8

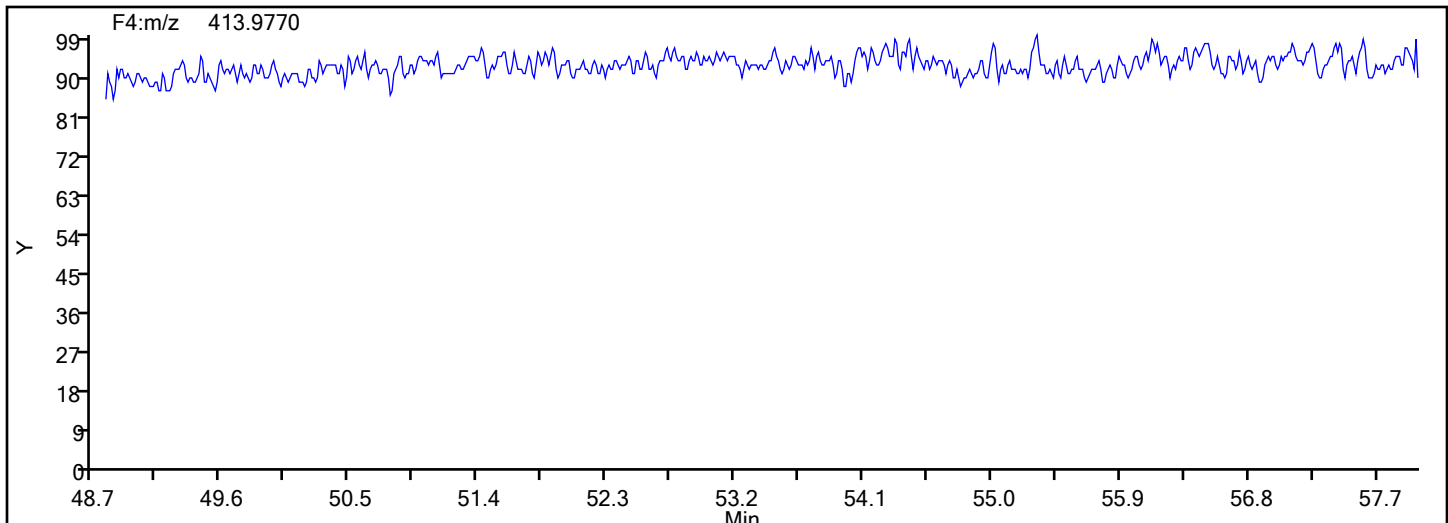
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



## Eurofins Knoxville

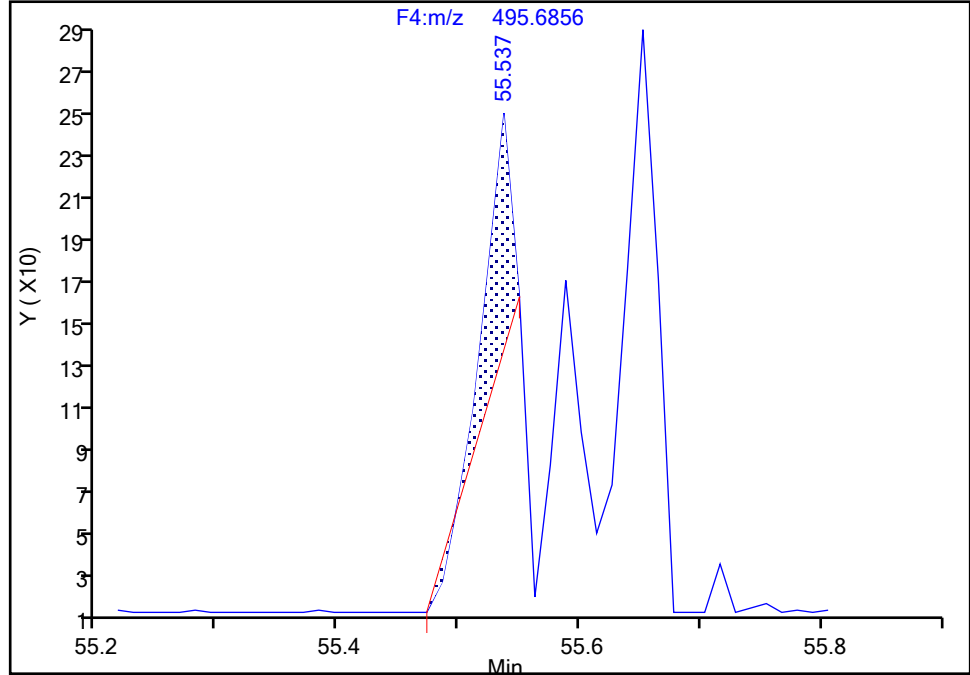
Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d  
Injection Date: 28-Jun-2024 02:59:00 Instrument ID: D2D  
Lims ID: MB 140-87624/21-B  
Client ID:  
Operator ID: Xcalibur\_System ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Column: SPB-Octyl ( 0.25 mm) Detector F4(49.20 :57.50 )

## DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

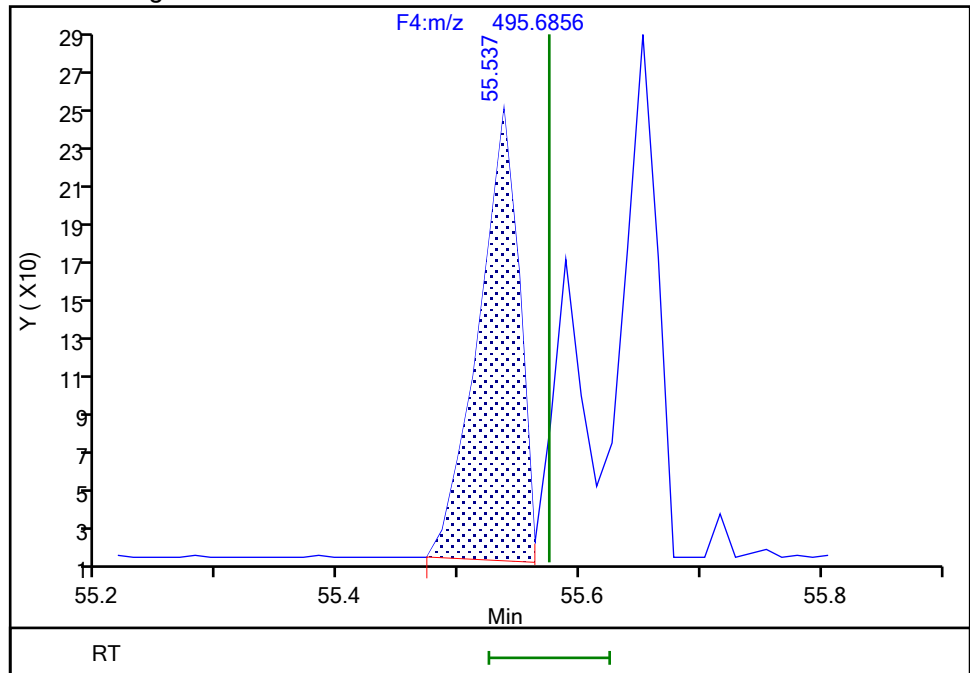
RT: 55.54  
Area: 138  
Amount: 0.036709  
Amount Units: pg/ul

## Processing Integration Results



RT: 55.54  
Area: 532  
Amount: 0.046959  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: P0IK, 28-Jun-2024 11:43:07 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\mb140-8762421-b.d  
Lims ID: MB 140-87624/21-B  
Client ID:  
Sample Type: MB  
Inject. Date: 28-Jun-2024 02:59:00 ALS Bottle#: 0 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-008  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 11:43:23 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1657

First Level Reviewer: P0IK

Date: 28-Jun-2024 11:43:23

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	76.9	76.94
PCB-111L	100.0	80.7	80.66
PCB-178L	100.0	78.3	78.33

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-87624/19-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-8762419-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/27/2024 23:11</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	18.69		0.600	0.132	0.0183
37680-65-2	PCB-18	43.16	C	0.600	0.285	0.0132
7012-37-5	PCB-28	29.54	C20	0.600	0.252	0.148
41464-39-5	PCB-44	41.17	C	0.900	0.390	0.203
35693-99-3	PCB-52	14.38		0.300	0.132	0.215
32598-10-0	PCB-66	15.58		0.300	0.120	0.157
32598-13-3	PCB-77	15.37		0.300	0.126	0.177
70362-50-4	PCB-81	14.61		0.300	0.0960	0.188
37680-73-2	PCB-101	48.67	C90	0.900	0.390	0.0185
32598-14-4	PCB-105	15.00		0.300	0.102	0.242
74472-37-0	PCB-114	16.24		0.300	0.165	0.258
31508-00-6	PCB-118	13.93		0.300	0.183	0.220
65510-44-3	PCB-123	15.55		0.300	0.171	0.251
57465-28-8	PCB-126	18.14		0.300	0.123	0.264
38380-07-3	PCB-128	30.67	C	0.600	0.204	0.108
35065-28-2	PCB-138	59.21	C129	1.20	0.510	0.112
35065-27-1	PCB-153	29.61	C	0.600	0.249	0.0969
38380-08-4	PCB-156	30.27	C	0.600	0.255	0.121
69782-90-7	PCB-157	30.27	C156	0.600	0.255	0.121
52663-72-6	PCB-167	15.81		0.300	0.180	0.0785
32774-16-6	PCB-169	16.77		0.300	0.123	0.0752
35065-30-6	PCB-170	14.61		0.300	0.132	0.0161
35065-29-3	PCB-180	32.27	C	0.600	0.204	0.0136
52663-68-0	PCB-187	16.40		0.300	0.126	0.0144
39635-31-9	PCB-189	16.08		0.300	0.147	0.0340
52663-78-2	PCB-195	17.08		0.300	0.159	0.146
40186-72-9	PCB-206	15.04		0.300	0.171	0.135
2051-24-3	PCB-209	13.81		0.300	0.138	0.0108

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-87624/19-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-8762419-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/27/2024 23:11</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	52		15-145
208263-77-8	PCB-3L	78		15-145
234432-86-1	PCB-4L	49		15-145
208263-67-6	PCB-15L	74		15-145
234432-87-2	PCB-19L	53		15-145
208263-79-0	PCB-37L	79		15-145
234432-88-3	PCB-54L	70		15-145
105600-23-5	PCB-77L	87		40-145
208461-24-9	PCB-81L	85		40-145
234432-89-4	PCB-104L	81		40-145
208263-62-1	PCB-105L	87		40-145
208263-63-2	PCB-114L	84		40-145
104130-40-7	PCB-118L	88		40-145
208263-64-3	PCB-123L	86		40-145
208263-65-4	PCB-126L	90		40-145
234432-90-7	PCB-155L	87		40-145
208263-68-7	PCB-156L	89	C	40-145
235416-30-5	PCB-157L	89	C156	40-145
208263-69-8	PCB-167L	87		40-145
208263-70-1	PCB-169L	93		40-145
160901-80-4	PCB-170L	92		40-145
234432-91-8	PCB-188L	81		40-145
208263-73-4	PCB-189L	103		40-145
105600-26-8	PCB-202L	81		40-145
234446-64-1	PCB-205L	90		40-145
208263-75-6	PCB-206L	87		40-145
234432-92-9	PCB-208L	87		40-145
105600-27-9	PCB-209L	90		40-145



FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 140-87624/19-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcs140-8762419-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/27/2024 23:11</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	74		15-145
235416-29-2	PCB-111L	82		40-145
232919-67-4	PCB-178L	80		40-145

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d  
 Lims ID: LCS 140-87624/19-B  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 27-Jun-2024 23:11:00 ALS Bottle#: 0 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033294-002  
 Operator ID: Xcalibur\_System Instrument ID: D2D  
 Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
 Limit Group: HR - EPA\_23 PCB ICAL  
 Last Update: 28-Jun-2024 00:31:21 Calib Date: 31-May-2024 21:13:00  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
 Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
 Process Host: CTX1639

First Level Reviewer: Q9DB

Date: 28-Jun-2024 00:31:21

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					179.0	179.0	0.2294	0.2294		
D PCB-1L	11:40	6249743	3.25	1.6108	51.7	51.7	0.2306	0.2306	51.69	
D PCB-3L	13:50	9354004	3.16	1.5891	78.4	78.4	0.2338	0.2338	78.42	
PCB-1	11:40	4188363	3.18	1.2191	55.0	55.0	0.2557	0.2557	110	
PCB-2	13:40	6340861	3.22	1.1805	68.8	68.8	0.2322	0.2322	138	
PCB-3	13:51	6298868	3.11	1.2206	55.2	55.2	0.2004	0.2004	110	
S Total Dichlorobiphenyls					688.3	688.3	0.0716	0.0716		
D PCB-4L	14:05	2404913	1.63	0.6475	49.5	49.5	0.1208	0.1208	49.48	
* PCB-9L	16:02	7505947	1.61		100.0	100.0				
D PCB-15L	19:57	6002179	1.63	1.0789	74.1	74.1	0.0725	0.0725	74.12	
PCB-4	14:06	1616075	1.63	1.2818	52.4	52.4	0.1069	0.1069	105	
PCB-10	14:16	2355540	1.65	1.3149	42.6	42.6	0.0737	0.0737	85.24	
PCB-9	16:04	3656089	1.62	1.4224	61.1	61.1	0.0681	0.0681	122	
PCB-7	16:13	3379738	1.60	1.4134	56.9	56.9	0.0685	0.0685	114	
PCB-6	16:28	4004609	1.59	1.5421	61.8	61.8	0.0628	0.0628	124	
PCB-5	16:46	2717089	1.66	1.3395	48.3	48.3	0.0723	0.0723	96.51	
PCB-8	16:54	4159957	1.61	1.5889	62.3	62.3	0.0610	0.0610	125	
PCB-14	18:30	3672525	1.67	1.4025	62.3	62.3	0.0691	0.0691	125	
PCB-11	19:22	3816243	1.60	1.2951	70.1	70.1	0.0748	0.0748	140	
PCB-12	19:40	6846992	1.65	1.3358	121.9	121.9	0.0725	0.0725	122	
PCB-13 (C12)	19:40	6846992	1.65	1.3358	121.9	121.9	0.0725	0.0725	122	
PCB-15	19:59	3758021	1.61	1.2903	48.5	48.5	0.0581	0.0581	97.05	
S Total Trichlorobiphenyls					1369.7	1369.7	0.3480	0.3480		
D PCB-19L	17:12	1716532	1.12	0.6285	53.3	53.3	0.2481	0.2481	53.29	
* PCB-32L	20:25	5124249	1.09		100.0	100.0				
* PCB-31L	22:41	15347916	1.07		100.0	100.0				
\$ PCB-28L	22:58	11842175	1.06	1.0494	73.5	73.5	0.0890	0.0890	73.53	
D PCB-37L	26:58	10581602	1.09	0.8749	78.8	78.8	0.1067	0.1067	78.80	
PCB-19	17:12	1149899	1.05	1.2809	52.3	52.3	0.0606	0.0606	105	
PCB-18	19:01	4358949	1.05	1.7652	143.9	143.9	0.0440	0.0440	144	
PCB-30 (C18)	19:01	4358949	1.05	1.7652	143.9	143.9	0.0440	0.0440	144	
PCB-17	19:28	1498128	1.04	1.2430	70.2	70.2	0.0625	0.0625	140	
PCB-27	19:41	2115142	1.07	1.8327	67.2	67.2	0.0424	0.0424	134	
PCB-24	19:49	1986519	1.04	1.6777	69.0	69.0	0.0463	0.0463	138	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:56	1323500	1.06	1.1286	68.3	68.3	0.0688	0.0688	137	
PCB-32	20:27	2450245	1.05	1.8324	77.9	77.9	0.0424	0.0424	156	
PCB-34	21:42	5556444	1.05	1.1277	46.6	46.6	0.5117	0.5117	93.12	
PCB-23	21:50	5620896	1.08	1.0813	49.1	49.1	0.5337	0.5337	98.25	
PCB-26	22:10	11198462	1.06	1.1255	94.0	94.0	0.5128	0.5128	94.03	
PCB-29 (C26)	22:10	11198462	1.06	1.1255	94.0	94.0	0.5128	0.5128	94.03	
PCB-25	22:23	7068587	1.06	1.2728	52.5	52.5	0.4534	0.4534	105	
PCB-31	22:42	6745861	1.04	1.1532	55.3	55.3	0.5004	0.5004	111	
PCB-20	23:00	12209982	1.06	1.1718	98.5	98.5	0.4925	0.4925	98.47	
PCB-28 (C20)	23:00	12209982	1.06	1.1718	98.5	98.5	0.4925	0.4925	98.47	
PCB-21	23:10	11821601	1.05	1.0746	104.0	104.0	0.5371	0.5371	104	M
PCB-33 (C21)	23:10	11821601	1.05	1.0746	104.0	104.0	0.5371	0.5371	104	M
PCB-22	23:38	6650840	1.02	1.1932	52.7	52.7	0.4836	0.4836	105	
PCB-36	25:10	6845960	1.06	1.1071	58.4	58.4	0.5213	0.5213	117	
PCB-39	25:32	6378528	1.04	1.1581	52.0	52.0	0.4983	0.4983	104	
PCB-38	26:06	6364002	1.01	1.0843	55.5	55.5	0.5322	0.5322	111	
PCB-35	26:35	6077626	1.04	1.1297	50.8	50.8	0.5109	0.5109	102	
PCB-37	26:59	6231165	1.02	1.1435	51.5	51.5	0.5047	0.5047	103	
S Total Tetrachlorobiphenyls					1997.6	1997.6	0.5992	0.5992		
D PCB-54L	20:15	2002920	0.80	0.5562	70.3	70.3	0.0440	0.0440	70.27	
* PCB-52L	24:48	6852604	0.81		100.0	100.0				
D PCB-81L	33:42	7289757	0.81	1.2470	85.3	85.3	0.1003	0.1003	85.31	
D PCB-77L	34:16	7866003	0.82	1.3212	86.9	86.9	0.0947	0.0947	86.88	
PCB-54	20:17	1228338	0.79	1.2733	48.2	48.2	0.0959	0.0959	96.33	
PCB-50	22:26	5864022	0.82	0.8578	90.2	90.2	0.7678	0.7678	90.21	
PCB-53 (C50)	22:26	5864022	0.82	0.8578	90.2	90.2	0.7678	0.7678	90.21	
PCB-45	23:10	5527045	0.79	0.8264	88.3	88.3	0.7969	0.7969	88.25	M
PCB-51 (C45)	23:10	5527045	0.79	0.8264	88.3	88.3	0.7969	0.7969	88.25	M
PCB-46	23:25	2275908	0.81	0.7101	42.3	42.3	0.9275	0.9275	84.59	
PCB-52	24:50	3339160	0.80	0.9194	47.9	47.9	0.7163	0.7163	95.85	
PCB-43	24:58	7043591	0.83	1.0333	89.9	89.9	0.6374	0.6374	89.95	M
PCB-73 (C43)	24:58	7043591	0.83	1.0333	89.9	89.9	0.6374	0.6374	89.95	M
PCB-49	25:15	7213781	0.81	1.0685	89.1	89.1	0.6164	0.6164	89.09	
PCB-69 (C49)	25:15	7213781	0.81	1.0685	89.1	89.1	0.6164	0.6164	89.09	
PCB-48	25:35	2978741	0.84	0.8399	46.8	46.8	0.7842	0.7842	93.60	
PCB-44	25:49	10119365	0.81	0.9731	137.2	137.2	0.6768	0.6768	91.49	
PCB-47 (C44)	25:49	10119365	0.81	0.9731	137.2	137.2	0.6768	0.6768	91.49	
PCB-65 (C44)	25:49	10119365	0.81	0.9731	137.2	137.2	0.6768	0.6768	91.49	
PCB-59	26:09	11890297	0.81	1.1853	132.4	132.4	0.5557	0.5557	88.26	
PCB-62 (C59)	26:09	11890297	0.81	1.1853	132.4	132.4	0.5557	0.5557	88.26	
PCB-75 (C59)	26:09	11890297	0.81	1.1853	132.4	132.4	0.5557	0.5557	88.26	
PCB-42	26:21	2737925	0.80	0.8097	44.6	44.6	0.8134	0.8134	89.25	
PCB-40	26:51	9185141	0.78	0.8863	136.8	136.8	0.7431	0.7431	91.17	M
PCB-41 (C40)	26:51	9185141	0.78	0.8863	136.8	136.8	0.7431	0.7431	91.17	M
PCB-71 (C40)	26:51	9185141	0.78	0.8863	136.8	136.8	0.7431	0.7431	91.17	M
PCB-64	27:03	4162076	0.81	1.1776	46.6	46.6	0.5593	0.5593	93.28	
PCB-72	27:53	4626185	0.80	1.0943	55.8	55.8	0.6019	0.6019	112	
PCB-68	28:10	4485066	0.80	1.2533	47.2	47.2	0.5255	0.5255	94.45	
PCB-57	28:35	4430549	0.81	1.0818	54.0	54.0	0.6088	0.6088	108	
PCB-58	28:50	5082871	0.81	1.3253	50.6	50.6	0.4969	0.4969	101	
PCB-67	28:59	5177109	0.80	1.4230	48.0	48.0	0.4628	0.4628	96.02	
PCB-63	29:16	4193147	0.83	1.1240	49.2	49.2	0.5860	0.5860	98.46	
PCB-61	29:36	18755441	0.81	1.2612	196.2	196.2	0.5222	0.5222	98.12	
PCB-70 (C61)	29:36	18755441	0.81	1.2612	196.2	196.2	0.5222	0.5222	98.12	
PCB-74 (C61)	29:36	18755441	0.81	1.2612	196.2	196.2	0.5222	0.5222	98.12	
PCB-76 (C61)	29:36	18755441	0.81	1.2612	196.2	196.2	0.5222	0.5222	98.12	
PCB-66	29:55	4950790	0.81	1.2583	51.9	51.9	0.5234	0.5234	104	
PCB-55	30:05	4898133	0.82	1.3236	48.8	48.8	0.4976	0.4976	97.67	
PCB-56	30:36	4747704	0.81	1.2334	50.8	50.8	0.5340	0.5340	102	
PCB-60	30:48	4110978	0.79	1.1230	48.3	48.3	0.5865	0.5865	96.61	
PCB-80	31:12	4794676	0.81	1.3243	47.8	47.8	0.4973	0.4973	95.56	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:44	5670326	0.80	1.4368	52.1	52.1	0.4584	0.4584	104	
PCB-78	33:17	4973570	0.79	1.1618	56.5	56.5	0.5669	0.5669	113	
PCB-81	33:43	3835688	0.80	1.0802	48.7	48.7	0.6280	0.6280	97.42	
PCB-77	34:18	4368041	0.80	1.0836	51.2	51.2	0.5906	0.5906	102	
S Total Pentachlorobiphenyls					2510.5	2510.5	0.3108	0.3108		
D PCB-104L	25:44	4299840	1.60	1.2161	81.0	81.0	0.0349	0.0349	81.02	
* PCB-101L	31:37	4364231	1.60		100.0	100.0				
\$ PCB-111L	34:18	4896329	1.60	1.3699	81.9	81.9	0.0310	0.0310	81.90	
D PCB-123L	36:15	8794574	1.60	0.9731	86.5	86.5	0.9533	0.9533	86.45	
D PCB-118L	36:35	9335873	1.58	1.0102	88.4	88.4	0.9184	0.9184	88.41	
D PCB-114L	37:07	8766348	1.59	0.9949	84.3	84.3	0.9325	0.9325	84.29	
D PCB-105L	37:46	8645684	1.65	0.9514	86.9	86.9	0.9750	0.9750	86.93	
* PCB-127L	39:14	10453263	1.61		100.0	100.0				
D PCB-126L	40:51	8844145	1.59	0.9439	89.6	89.6	0.9829	0.9829	89.64	
PCB-104	25:46	2296477	1.59	1.0087	52.9	52.9	0.0585	0.0585	106	
PCB-96	26:09	2568226	1.58	1.0940	54.6	54.6	0.0539	0.0539	109	
PCB-103	28:04	1901903	1.63	0.8741	50.6	50.6	0.0675	0.0675	101	
PCB-94	28:17	1667126	1.56	0.7640	50.7	50.7	0.0772	0.0772	101	
PCB-95	28:44	1849856	1.63	0.8033	53.6	53.6	0.0734	0.0734	107	
PCB-93	28:56	3611263	1.60	0.8429	99.6	99.6	0.0700	0.0700	99.64	
PCB-100 (C93)	28:56	3611263	1.60	0.8429	99.6	99.6	0.0700	0.0700	99.64	
PCB-98	29:06	4376776	1.55	0.8262	123.2	123.2	0.0714	0.0714	123	M
PCB-102 (C98)	29:06	4376776	1.55	0.8262	123.2	123.2	0.0714	0.0714	123	M
PCB-88	29:36	3686938	1.61	0.8013	107.0	107.0	0.0736	0.0736	107	
PCB-91 (C88)	29:36	3686938	1.61	0.8013	107.0	107.0	0.0736	0.0736	107	
PCB-84	29:49	1687144	1.56	0.7299	53.8	53.8	0.0808	0.0808	108	
PCB-89	30:18	2034879	1.57	0.7798	60.7	60.7	0.0756	0.0756	121	
PCB-121	30:41	2944028	1.59	1.2964	52.8	52.8	0.0455	0.0455	106	
PCB-92	31:04	1877224	1.64	0.8546	51.1	51.1	0.0690	0.0690	102	
PCB-90	31:37	6662363	1.60	0.9550	162.2	162.2	0.0618	0.0618	108	
PCB-101 (C90)	31:37	6662363	1.60	0.9550	162.2	162.2	0.0618	0.0618	108	
PCB-113 (C90)	31:37	6662363	1.60	0.9550	162.2	162.2	0.0618	0.0618	108	
PCB-83	32:13	4211719	1.63	0.8385	116.8	116.8	0.0703	0.0703	117	
PCB-99 (C83)	32:13	4211719	1.63	0.8385	116.8	116.8	0.0703	0.0703	117	
PCB-112	32:21	3387883	1.52	1.4111	55.8	55.8	0.0418	0.0418	112	
PCB-86	32:43	14560085	1.60	1.0473	323.3	323.3	0.0563	0.0563	108	M
PCB-87 (C86)	32:43	14560085	1.60	1.0473	323.3	323.3	0.0563	0.0563	108	M
PCB-97 (C86)	32:43	14560085	1.60	1.0473	323.3	323.3	0.0563	0.0563	108	M
PCB-109 (C86)	32:43	14560085	1.60	1.0473	323.3	323.3	0.0563	0.0563	108	M
PCB-119 (C86)	32:43	14560085	1.60	1.0473	323.3	323.3	0.0563	0.0563	108	M
PCB-125 (C86)	32:43	14560085	1.60	1.0473	323.3	323.3	0.0563	0.0563	108	M
PCB-85	33:26	7270796	1.60	1.0408	162.5	162.5	0.0567	0.0567	108	
PCB-116 (C85)	33:26	7270796	1.60	1.0408	162.5	162.5	0.0567	0.0567	108	
PCB-117 (C85)	33:26	7270796	1.60	1.0408	162.5	162.5	0.0567	0.0567	108	
PCB-110	33:39	6341641	1.58	1.1919	123.7	123.7	0.0495	0.0495	124	
PCB-115 (C110)	33:39	6341641	1.58	1.1919	123.7	123.7	0.0495	0.0495	124	
PCB-82	33:57	2092060	1.60	0.8303	58.6	58.6	0.0710	0.0710	117	
PCB-111	34:19	2871366	1.62	1.2125	55.1	55.1	0.0486	0.0486	110	
PCB-120	34:47	3519869	1.61	1.4762	55.5	55.5	0.0400	0.0400	111	
PCB-108	35:55	10435602	1.58	1.1405	103.1	103.1	0.8115	0.8115	103	
PCB-124 (C108)	35:55	10435602	1.58	1.1405	103.1	103.1	0.8115	0.8115	103	
PCB-107	36:10	5824428	1.46	1.2121	54.1	54.1	0.7636	0.7636	108	
PCB-123	36:17	4889011	1.71	1.0722	51.8	51.8	0.8355	0.8355	104	
PCB-106	36:24	5527348	1.53	1.0839	57.4	57.4	0.8538	0.8538	115	
PCB-118	36:37	5225436	1.67	1.2055	46.4	46.4	0.7321	0.7321	92.86	
PCB-122	36:58	4390204	1.57	0.9567	51.7	51.7	0.9674	0.9674	103	
PCB-114	37:08	5144068	1.60	1.0842	54.1	54.1	0.8595	0.8595	108	
PCB-105	37:48	5134689	1.64	1.1879	50.0	50.0	0.8072	0.8072	100	
PCB-127	39:15	5770318	1.57	1.1394	57.0	57.0	0.8123	0.8123	114	
PCB-126	40:52	5868848	1.59	1.0976	60.5	60.5	0.8785	0.8785	121	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Hexachlorobiphenyls					2108.6	2108.6	0.2840	0.2840		
D PCB-155L	31:23	4099461	1.26	1.0851	86.6	86.6	0.0451	0.0451	86.56	
* PCB-138L	39:42	6490332	1.30		100.0	100.0				
D PCB-167L	42:42	7062411	1.28	1.2572	86.6	86.6	0.4344	0.4344	86.55	
D PCB-156L	43:51	14039027	1.29	1.2106	178.7	178.7	0.4511	0.4511	89.34	
D PCB-157L (C156L)	43:51	14039027	1.29	1.2106	178.7	178.7	0.4511	0.4511	89.34	
D PCB-169L	47:05	7477216	1.28	1.2439	92.6	92.6	0.4390	0.4390	92.62	
PCB-155	31:24	1849683	1.24	0.9444	47.8	47.8	0.0510	0.0510	95.55	
PCB-152	31:37	2258853	1.24	0.9895	55.7	55.7	0.0487	0.0487	111	
PCB-150	31:47	2062863	1.23	1.0132	49.7	49.7	0.0476	0.0476	99.33	
PCB-136	32:10	1939468	1.27	1.0116	46.8	46.8	0.0476	0.0476	93.54	
PCB-145	32:26	2242994	1.24	0.9685	56.5	56.5	0.0497	0.0497	113	
PCB-148	33:57	1487940	1.24	0.7603	47.7	47.7	0.0634	0.0634	95.48	
PCB-135	34:36	3134018	1.27	0.7256	105.4	105.4	0.0664	0.0664	105	M
PCB-151 (C135)	34:36	3134018	1.27	0.7256	105.4	105.4	0.0664	0.0664	105	M
PCB-154	34:47	1667540	1.28	0.8129	50.0	50.0	0.0593	0.0593	100	
PCB-144	35:06	1539960	1.27	0.7852	47.8	47.8	0.0614	0.0614	95.68	
PCB-147	35:28	6785684	1.28	0.8950	106.1	106.1	0.3948	0.3948	106	
PCB-149 (C147)	35:28	6785684	1.28	0.8950	106.1	106.1	0.3948	0.3948	106	
PCB-134	35:46	5164278	1.25	0.7967	90.7	90.7	0.4435	0.4435	90.73	
PCB-143 (C134)	35:46	5164278	1.25	0.7967	90.7	90.7	0.4435	0.4435	90.73	
PCB-139	36:04	6222806	1.26	0.8769	99.3	99.3	0.4029	0.4029	99.33	
PCB-140 (C139)	36:04	6222806	1.26	0.8769	99.3	99.3	0.4029	0.4029	99.33	
PCB-131	36:16	2662902	1.29	0.7503	49.7	49.7	0.4709	0.4709	99.35	
PCB-142	36:25	2612479	1.29	0.7507	48.7	48.7	0.4707	0.4707	97.42	
PCB-132	36:45	2786737	1.25	0.7489	52.1	52.1	0.4718	0.4718	104	
PCB-133	37:14	2963440	1.30	0.8096	51.2	51.2	0.4364	0.4364	102	
PCB-165	37:37	3487213	1.26	1.0247	47.6	47.6	0.3448	0.3448	95.26	
PCB-146	37:52	3432737	1.27	0.9637	49.9	49.9	0.3666	0.3666	99.71	
PCB-161	38:00	4220416	1.29	1.1288	52.3	52.3	0.3130	0.3130	105	
PCB-153	38:29	7714154	1.25	1.0938	98.7	98.7	0.3230	0.3230	98.71	
PCB-168 (C153)	38:29	7714154	1.25	1.0938	98.7	98.7	0.3230	0.3230	98.71	
PCB-141	38:40	3033151	1.32	0.8755	48.5	48.5	0.4036	0.4036	96.98	
PCB-130	39:06	2409750	1.24	0.7051	47.8	47.8	0.5011	0.5011	95.67	
PCB-137	39:18	2809410	1.26	0.7767	50.6	50.6	0.4549	0.4549	101	
PCB-164	39:26	4270691	1.26	1.0382	57.6	57.6	0.3403	0.3403	115	
PCB-129	39:44	13346021	1.25	0.9464	197.4	197.4	0.3733	0.3733	98.69	M
PCB-138 (C129)	39:44	13346021	1.25	0.9464	197.4	197.4	0.3733	0.3733	98.69	M
PCB-160 (C129)	39:44	13346021	1.25	0.9464	197.4	197.4	0.3733	0.3733	98.69	M
PCB-163 (C129)	39:44	13346021	1.25	0.9464	197.4	197.4	0.3733	0.3733	98.69	M
PCB-158	40:07	4244991	1.26	1.3110	45.3	45.3	0.2695	0.2695	90.64	
PCB-128	40:57	7179927	1.25	0.9829	102.2	102.2	0.3595	0.3595	102	
PCB-166 (C128)	40:57	7179927	1.25	0.9829	102.2	102.2	0.3595	0.3595	102	
PCB-159	41:57	4786126	1.28	1.3856	48.3	48.3	0.2550	0.2550	96.69	
PCB-162	42:15	4269074	1.25	1.2571	47.5	47.5	0.2811	0.2811	95.06	
PCB-167	42:43	4153667	1.25	1.1159	52.7	52.7	0.2616	0.2616	105	
PCB-156	43:53	7865223	1.27	1.1104	100.9	100.9	0.4034	0.4034	101	
PCB-157 (C156)	43:53	7865223	1.27	1.1104	100.9	100.9	0.4034	0.4034	101	
PCB-169	47:07	4861219	1.28	1.1628	55.9	55.9	0.2506	0.2506	112	
S Total Heptachlorobiphenyls					1268.5	1268.5	0.0515	0.0515		
D PCB-188L	37:06	5243004	1.08	1.3133	80.8	80.8	0.0348	0.0348	80.79	
\$ PCB-178L	40:10	4062725	1.07	1.0313	79.7	79.7	0.0444	0.0444	79.72	
* PCB-180L	45:15	4941705	1.07		100.0	100.0				
D PCB-170L	46:30	3782626	1.07	0.8362	91.5	91.5	0.0547	0.0547	91.54	
D PCB-189L	49:36	11063412	1.05	1.4414	103.2	103.2	0.3678	0.3678	103	
PCB-188	37:07	2948766	1.05	1.1350	49.6	49.6	0.0396	0.0396	99.11	
PCB-179	37:29	3216340	1.05	1.4276	49.9	49.9	0.0370	0.0370	99.85	
PCB-184	37:59	2987319	1.05	1.3672	48.4	48.4	0.0386	0.0386	96.84	
PCB-176	38:21	2797054	1.10	1.2331	50.3	50.3	0.0428	0.0428	101	
PCB-186	38:48	3390716	1.05	1.4737	51.0	51.0	0.0358	0.0358	102	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-178	40:11	2121458	1.10	0.8946	52.5	52.5	0.0590	0.0590	105	
PCB-175	40:48	2161936	1.07	0.9524	50.3	50.3	0.0554	0.0554	101	
PCB-187	41:05	2718273	1.06	1.1018	54.7	54.7	0.0479	0.0479	109	
PCB-182	41:17	2633384	1.06	0.9247	63.1	63.1	0.0571	0.0571	126	
PCB-183	41:41	4420208	1.05	0.9825	99.7	99.7	0.0537	0.0537	99.69	M
PCB-185 (C183)	41:41	4420208	1.05	0.9825	99.7	99.7	0.0537	0.0537	99.69	M
PCB-174	41:56	2431435	1.02	0.9642	55.9	55.9	0.0547	0.0547	112	
PCB-177	42:22	2416406	1.06	0.9773	54.8	54.8	0.0540	0.0540	110	
PCB-181	42:46	2457681	1.09	0.9505	57.3	57.3	0.0555	0.0555	115	
PCB-171	42:59	4354384	1.05	0.9336	103.3	103.3	0.0565	0.0565	103	
PCB-173 (C171)	42:59	4354384	1.05	0.9336	103.3	103.3	0.0565	0.0565	103	
PCB-172	44:37	2281302	1.09	0.8519	59.3	59.3	0.0620	0.0620	119	
PCB-192	44:53	3361310	1.06	1.3459	55.3	55.3	0.0392	0.0392	111	
PCB-180	45:14	5668265	1.06	1.1676	107.6	107.6	0.0452	0.0452	108	
PCB-193 (C180)	45:14	5668265	1.06	1.1676	107.6	107.6	0.0452	0.0452	108	
PCB-191	45:37	3070269	1.05	1.2891	52.8	52.8	0.0409	0.0409	106	
PCB-170	46:31	2185581	1.05	1.1865	48.7	48.7	0.0538	0.0538	97.39	
PCB-190	47:02	3028572	1.07	1.3322	50.4	50.4	0.0396	0.0396	101	
PCB-189	49:37	5711949	1.07	0.9633	53.6	53.6	0.1134	0.1134	107	
S Total Octachlorobiphenyls					645.8	645.8	0.1517	0.1517		
D PCB-202L	42:27	3939152	0.92	0.9818	81.2	81.2	0.0227	0.0227	81.19	
* PCB-194L	51:42	7438191	0.93		100.0	100.0				
D PCB-205L	52:10	7858078	0.92	1.1786	89.6	89.6	0.0458	0.0458	89.64	
PCB-202	42:30	2055372	0.90	1.0359	50.4	50.4	0.0459	0.0459	101	
PCB-201	43:24	1972593	0.90	0.9754	51.3	51.3	0.0487	0.0487	103	
PCB-204	44:04	2273959	0.91	1.0485	55.1	55.1	0.0453	0.0453	110	
PCB-197	44:18	2166288	0.99	1.1458	48.0	48.0	0.0415	0.0415	95.99	
PCB-200	44:25	2177736	0.86	1.0072	54.9	54.9	0.0472	0.0472	110	
PCB-198	47:11	3789312	0.93	0.8698	110.6	110.6	0.0546	0.0546	111	
PCB-199 (C198)	47:11	3789312	0.93	0.8698	110.6	110.6	0.0546	0.0546	111	
PCB-196	47:52	1632723	0.95	0.7806	53.1	53.1	0.0609	0.0609	106	
PCB-203	48:03	2082582	0.88	0.9292	56.9	56.9	0.0511	0.0511	114	
PCB-195	49:23	3695811	0.91	0.8263	56.9	56.9	0.4881	0.4881	114	
PCB-194	51:44	4073929	0.90	0.9735	53.3	53.3	0.4143	0.4143	107	
PCB-205	52:12	4736949	0.92	1.0878	55.4	55.4	0.3708	0.3708	111	
S Total Nonachlorobiphenyls					145.1	145.1	0.4033	0.4033		
D PCB-208L	49:07	6174191	0.79	0.9576	86.7	86.7	0.2117	0.2117	86.68	
D PCB-206L	53:56	4483494	0.81	0.6947	86.8	86.8	0.2919	0.2919	86.77	
PCB-208	49:09	3329332	0.81	1.1374	47.4	47.4	0.3887	0.3887	94.81	
PCB-207	50:05	3489521	0.79	1.3756	47.6	47.6	0.3705	0.3705	95.21	
PCB-206	53:57	2999656	0.79	1.3346	50.1	50.1	0.4508	0.4508	100	
D PCB-209L	55:33	4483688	0.72	0.6669	90.4	90.4	0.0389	0.0389	90.39	
DCB Decachlorobiphenyl	55:34	2272026	0.72	1.1004	46.0	46.0	0.0361	0.0361	92.10	
S Polychlorinated biphenyls, Total					10780	10780	0.2507	0.2507		

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d  
Lims ID: LCS 140-87624/19-B  
Client ID:  
Sample Type: LCS  
Inject. Date: 27-Jun-2024 23:11:00 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-002  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 00:31:21 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1639

First Level Reviewer: Q9DB

Date: 28-Jun-2024 00:31:21

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:40	11:41	-2	0.727	4777629	1783507	2119	5297	842		
202.0766	11:40	11:41	-2	0.727	1472114	554510	1086	2715	511	3.25(2.66-3.60)	
PCB-3L											
200.0795	13:50	13:49	-1	0.862	7107154	2275153	2119	5297	1074		
202.0766	13:50	13:49	-1	0.862	2246850	703372	1086	2715	648	3.16(2.66-3.60)	
PCB-1											
188.0393	11:40	11:40	-1	1.001	3187443	1250230	2275	5687	550		
190.0363	11:40	11:40	-1	1.001	1000920	391014	640	1600	611	3.18(2.66-3.60)	
PCB-2											
188.0393	13:40	13:40	-1	0.988	4836981	1608150	2275	5687	707		
190.0363	13:40	13:40	-1	0.988	1503880	499738	640	1600	781	3.22(2.66-3.60)	
PCB-3											
188.0393	13:51	13:51	-1	1.001	4764576	1496860	2275	5687	658		
190.0363	13:51	13:51	-1	1.001	1534292	476138	640	1600	744	3.11(2.66-3.60)	
PCB-4L											
234.0406	14:05	14:05	-1	0.878	1492075	468933	546	1365	859		
236.0376	14:05	14:05	-1	0.878	912838	293926	129	322	2278	1.63(1.33-1.79)	
PCB-9L											
234.0406	16:02	16:04	-1		4634498	1328945	546	1365	2434		
236.0376	16:02	16:04	-1		2871449	827668	129	322	6416	1.61(1.33-1.79)	
PCB-15L											
234.0406	19:57	19:57	-1	1.244	3718933	859438	546	1365	1574		
236.0376	19:57	19:57	-1	1.244	2283246	535057	129	322	4148	1.63(1.33-1.79)	
PCB-4											
222.0003	14:06	14:06	-1	1.001	1001384	311215	119	297	2615		
223.9974	14:06	14:06	-1	1.001	614691	193885	299	747	648	1.63(1.33-1.79)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-10											
222.0003	14:16	14:16	-1	1.013	1467632	473727	119	297	3981		
223.9974	14:16	14:16	-1	1.013	887908	281916	299	747	943	1.65(1.33-1.79)	
PCB-9											
222.0003	16:04	16:03	-1	1.141	2259948	645037	119	297	5420		
223.9974	16:03	16:03	-1	1.140	1396141	408113	299	747	1365	1.62(1.33-1.79)	
PCB-7											
222.0003	16:13	16:13	-1	1.152	2082135	598464	119	297	5029		
223.9974	16:13	16:13	-1	1.152	1297603	374086	299	747	1251	1.60(1.33-1.79)	
PCB-6											
222.0003	16:28	16:27	-1	1.170	2458406	696001	119	297	5849		
223.9974	16:28	16:27	-1	1.170	1546203	432936	299	747	1448	1.59(1.33-1.79)	
PCB-5											
222.0003	16:46	16:46	-1	1.191	1694974	477617	119	297	4014		
223.9974	16:46	16:46	-1	1.191	1022115	290699	299	747	972	1.66(1.33-1.79)	
PCB-8											
222.0003	16:54	16:53	-1	1.201	2567703	695255	119	297	5842		
223.9974	16:54	16:53	-1	1.201	1592254	416332	299	747	1392	1.61(1.33-1.79)	
PCB-14											
222.0003	18:30	18:30	-1	0.928	2294689	578585	119	297	4862		
223.9974	18:30	18:30	-1	0.928	1377836	345134	299	747	1154	1.67(1.33-1.79)	
PCB-11											
222.0003	19:22	19:21	-1	0.970	2350152	555856	119	297	4671		
223.9974	19:22	19:21	-1	0.970	1466091	346227	299	747	1158	1.60(1.33-1.79)	
PCB-12											
222.0003	19:40	19:39	-1	0.986	4258661	699653	119	297	5879		
223.9974	19:40	19:39	-1	0.986	2588331	430065	299	747	1438	1.65(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:40	19:39	-1	0.986	4258661	699653	119	297	5879		
223.9974	19:40	19:39	-1	0.986	2588331	430065	299	747	1438	1.65(1.33-1.79)	
PCB-15											
222.0003	19:59	19:58	-1	1.001	2318597	519376	119	297	4365		
223.9974	19:59	19:58	-1	1.001	1439424	315494	299	747	1055	1.61(1.33-1.79)	
PCB-19L											
268.0016	17:12	17:11	-1	0.842	905779	240444	410	1025	586		
269.9986	17:12	17:11	-1	0.842	810753	219298	399	997	550	1.12(0.88-1.20)	
PCB-32L											
268.0016	20:25	20:27	-1		2671944	673139	410	1025	1642		
269.9986	20:25	20:27	-1		2452305	623256	399	997	1562	1.09(0.88-1.20)	
PCB-31L											
268.0016	22:41	22:42	-1		7943075	1887844	909	2272	2077		
269.9986	22:41	22:42	-1		7404841	1732255	443	1107	3910	1.07(0.88-1.20)	
PCB-28L											
268.0016	22:58	22:58	0	1.013	6106653	1362699	909	2272	1499		
269.9986	22:58	22:58	-1	1.012	5735522	1286618	443	1107	2904	1.06(0.88-1.20)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:58	26:57	0	1.189	5512632	1115205	909	2272	1227		
269.9986	26:58	26:57	0	1.189	5068970	1024763	443	1107	2313	1.09(0.88-1.20)	
PCB-19											
255.9613	17:12	17:12	-1	1.001	589806	160989	78	195	2064		
257.9584	17:12	17:12	-1	1.001	560093	158634	65	162	2441	1.05(0.88-1.20)	
PCB-18											
255.9613	19:01	19:01	-1	1.106	2231521	365964	78	195	4692		
257.9584	19:01	19:01	-1	1.106	2127428	359775	65	162	5535	1.05(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:01	19:01	-1	1.106	2231521	365964	78	195	4692		
257.9584	19:01	19:01	-1	1.106	2127428	359775	65	162	5535	1.05(0.88-1.20)	
PCB-17											
255.9613	19:28	19:29	-1	1.132	763328	192027	78	195	2462		
257.9584	19:28	19:29	-1	1.132	734800	181095	65	162	2786	1.04(0.88-1.20)	
PCB-27											
255.9613	19:41	19:42	-1	1.145	1090902	278758	78	195	3574		
257.9584	19:41	19:42	-1	1.145	1024240	266400	65	162	4098	1.07(0.88-1.20)	
PCB-24											
255.9613	19:49	19:49	-1	1.153	1012584	259627	78	195	3329		
257.9584	19:49	19:49	-1	1.153	973935	246823	65	162	3797	1.04(0.88-1.20)	
PCB-16											
255.9613	19:56	19:57	-1	1.160	681085	161469	78	195	2070		
257.9584	19:56	19:57	-1	1.160	642415	154187	65	162	2372	1.06(0.88-1.20)	
PCB-32											
255.9613	20:27	20:27	-1	1.190	1257754	312740	78	195	4009		
257.9584	20:27	20:27	-1	1.190	1192491	291709	65	162	4488	1.05(0.88-1.20)	
PCB-34											
255.9613	21:42	21:42	-1	1.262	2850323	694151	2383	5957	291		
257.9584	21:42	21:42	-1	1.262	2706121	659993	2557	6392	258	1.05(0.88-1.20)	
PCB-23											
255.9613	21:50	21:51	-1	1.270	2920817	681963	2383	5957	286		
257.9584	21:50	21:51	-1	1.270	2700079	634627	2557	6392	248	1.08(0.88-1.20)	
PCB-26											
255.9613	22:10	22:10	0	1.290	5771639	1259027	2383	5957	528		
257.9584	22:09	22:10	-1	1.289	5426823	1158698	2557	6392	453	1.06(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:10	22:10	0	1.290	5771639	1259027	2383	5957	528		
257.9584	22:09	22:10	-1	1.289	5426823	1158698	2557	6392	453	1.06(0.88-1.20)	
PCB-25											
255.9613	22:23	22:24	-1	0.830	3632418	787594	2383	5957	331		
257.9584	22:23	22:24	-1	0.830	3436169	751597	2557	6392	294	1.06(0.88-1.20)	
PCB-31											
255.9613	22:42	22:42	0	0.842	3436248	781656	2383	5957	328		
257.9584	22:42	22:42	-1	0.841	3309613	744776	2557	6392	291	1.04(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-20											
255.9613	23:00	23:01	-1	0.853	6273106	1086890	2383	5957	456		
257.9584	23:00	23:01	-1	0.853	5936876	1039836	2557	6392	407	1.06(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	23:01	-1	0.853	6273106	1086890	2383	5957	456		
257.9584	23:00	23:01	-1	0.853	5936876	1039836	2557	6392	407	1.06(0.88-1.20)	
PCB-21											
255.9613	23:10	23:10	-5	0.859	6065577	760804	2383	5957	319		M
257.9584	23:10	23:10	-5	0.859	5756024	719536	2557	6392	281	1.05(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:10	23:10	-5	0.859	6065577	760804	2383	5957	319		M
257.9584	23:10	23:10	-5	0.859	5756024	719536	2557	6392	281	1.05(0.88-1.20)	M
PCB-22											
255.9613	23:38	23:38	-1	0.876	3366142	742792	2383	5957	312		
257.9584	23:38	23:38	-1	0.876	3284698	731774	2557	6392	286	1.02(0.88-1.20)	
PCB-36											
255.9613	25:10	25:11	-1	0.933	3522063	711655	2383	5957	299		
257.9584	25:10	25:11	-1	0.933	3323897	696518	2557	6392	272	1.06(0.88-1.20)	
PCB-39											
255.9613	25:32	25:32	-1	0.946	3254324	666424	2383	5957	280		
257.9584	25:33	25:32	0	0.947	3124204	641483	2557	6392	251	1.04(0.88-1.20)	
PCB-38											
255.9613	26:06	26:07	-1	0.968	3191962	677291	2383	5957	284		
257.9584	26:06	26:07	-1	0.968	3172040	666976	2557	6392	261	1.01(0.88-1.20)	
PCB-35											
255.9613	26:35	26:35	0	0.986	3092953	601913	2383	5957	253		
257.9584	26:35	26:35	0	0.986	2984673	578472	2557	6392	226	1.04(0.88-1.20)	
PCB-37											
255.9613	26:59	27:00	-1	1.000	3151676	614907	2383	5957	258		
257.9584	26:59	27:00	-1	1.000	3079489	594410	2557	6392	232	1.02(0.88-1.20)	
PCB-54L											
301.9626	20:15	20:16	-1	0.817	887148	224218	83	207	2701		
303.9597	20:15	20:16	-1	0.817	1115772	289319	44	110	6575	0.80(0.65-0.89)	
PCB-52L											
301.9626	24:48	24:49	-1		3071885	688368	399	997	1725		
303.9597	24:48	24:49	-1		3780719	843763	368	920	2293	0.81(0.65-0.89)	
PCB-81L											
301.9626	33:42	33:41	0	1.359	3265600	621179	399	997	1557		
303.9597	33:42	33:41	0	1.359	4024157	772567	368	920	2099	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:16	34:15	-1	1.382	3534998	665612	399	997	1668		
303.9597	34:16	34:15	-1	1.382	4331005	811851	368	920	2206	0.82(0.65-0.89)	
PCB-54											
289.9224	20:17	20:18	-1	1.000	542891	135031	133	332	1015		
291.9194	20:17	20:18	-1	1.000	685447	164478	118	295	1394	0.79(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-50											
289.9224	22:26	22:26	-1	1.108	2636351	591628	1420	3550	417		
291.9194	22:26	22:26	-1	1.108	3227671	740772	2362	5905	314	0.82(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:26	22:26	-1	1.108	2636351	591628	1420	3550	417		
291.9194	22:26	22:26	-1	1.108	3227671	740772	2362	5905	314	0.82(0.65-0.89)	
PCB-45											
289.9224	23:10	23:10	-1	1.144	2445337	329150	1420	3550	232		M
291.9194	23:10	23:10	-1	1.144	3081708	405387	2362	5905	172	0.79(0.65-0.89)	M
PCB-51 (C45)											
289.9224	23:10	23:10	-1	1.144	2445337	329150	1420	3550	232		M
291.9194	23:10	23:10	-1	1.144	3081708	405387	2362	5905	172	0.79(0.65-0.89)	M
PCB-46											
289.9224	23:25	23:25	-1	1.157	1015344	246370	1420	3550	174		
291.9194	23:25	23:25	-1	1.157	1260564	300213	2362	5905	127	0.81(0.65-0.89)	
PCB-52											
289.9224	24:50	24:49	-1	1.226	1484278	343644	1420	3550	242		
291.9194	24:50	24:49	-1	1.226	1854882	435714	2362	5905	184	0.80(0.65-0.89)	
PCB-43											
289.9224	24:58	24:58	-1	1.233	3191153	435603	1420	3550	307		M
291.9194	24:58	24:58	-1	1.233	3852438	526703	2362	5905	223	0.83(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:58	24:58	-1	1.233	3191153	435603	1420	3550	307		M
291.9194	24:58	24:58	-1	1.233	3852438	526703	2362	5905	223	0.83(0.65-0.89)	M
PCB-49											
289.9224	25:15	25:14	-1	1.247	3224951	431031	1420	3550	304		
291.9194	25:15	25:14	-1	1.247	3988830	550864	2362	5905	233	0.81(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:15	25:14	-1	1.247	3224951	431031	1420	3550	304		
291.9194	25:15	25:14	-1	1.247	3988830	550864	2362	5905	233	0.81(0.65-0.89)	
PCB-48											
289.9224	25:35	25:34	-1	1.263	1362391	311536	1420	3550	219		
291.9194	25:35	25:34	-1	1.263	1616350	370929	2362	5905	157	0.84(0.65-0.89)	
PCB-44											
289.9224	25:49	25:49	-1	1.275	4525979	880771	1420	3550	620		
291.9194	25:49	25:49	-1	1.275	5593386	1084760	2362	5905	459	0.81(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:49	25:49	-1	1.275	4525979	880771	1420	3550	620		
291.9194	25:49	25:49	-1	1.275	5593386	1084760	2362	5905	459	0.81(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:49	25:49	-1	1.275	4525979	880771	1420	3550	620		
291.9194	25:49	25:49	-1	1.275	5593386	1084760	2362	5905	459	0.81(0.65-0.89)	
PCB-59											
289.9224	26:09	26:08	-1	1.291	5303742	783938	1420	3550	552		
291.9194	26:09	26:08	-1	1.291	6586555	962679	2362	5905	408	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-62 (C59)											
289.9224	26:09	26:08	-1	1.291	5303742	783938	1420	3550	552		
291.9194	26:09	26:08	-1	1.291	6586555	962679	2362	5905	408	0.81(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:09	26:08	-1	1.291	5303742	783938	1420	3550	552		
291.9194	26:09	26:08	-1	1.291	6586555	962679	2362	5905	408	0.81(0.65-0.89)	
PCB-42											
289.9224	26:21	26:20	0	1.301	1220320	272290	1420	3550	192		
291.9194	26:21	26:20	0	1.301	1517605	331603	2362	5905	140	0.80(0.65-0.89)	
PCB-40											
289.9224	26:51	26:51	0	1.326	4028098	640355	1420	3550	451		M
291.9194	26:51	26:51	0	1.326	5157043	806383	2362	5905	341	0.78(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:51	26:51	0	1.326	4028098	640355	1420	3550	451		M
291.9194	26:51	26:51	0	1.326	5157043	806383	2362	5905	341	0.78(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:51	26:51	0	1.326	4028098	640355	1420	3550	451		M
291.9194	26:51	26:51	0	1.326	5157043	806383	2362	5905	341	0.78(0.65-0.89)	M
PCB-64											
289.9224	27:03	27:02	-1	1.336	1868191	408496	1420	3550	288		
291.9194	27:03	27:02	-1	1.336	2293885	496735	2362	5905	210	0.81(0.65-0.89)	
PCB-72											
289.9224	27:53	27:53	0	0.827	2059094	458539	1420	3550	323		
291.9194	27:53	27:53	0	0.827	2567091	562791	2362	5905	238	0.80(0.65-0.89)	
PCB-68											
289.9224	28:10	28:11	-1	0.835	1993173	405479	1420	3550	286		
291.9194	28:10	28:11	-1	0.835	2491893	497904	2362	5905	211	0.80(0.65-0.89)	
PCB-57											
289.9224	28:35	28:36	-1	0.848	1979971	431691	1420	3550	304		
291.9194	28:35	28:36	-1	0.848	2450578	544269	2362	5905	230	0.81(0.65-0.89)	
PCB-58											
289.9224	28:50	28:50	-1	0.855	2278036	479139	1420	3550	337		
291.9194	28:50	28:50	-1	0.855	2804835	593243	2362	5905	251	0.81(0.65-0.89)	
PCB-67											
289.9224	28:59	29:00	-1	0.860	2298367	448272	1420	3550	316		
291.9194	28:59	29:00	-1	0.860	2878742	568540	2362	5905	241	0.80(0.65-0.89)	
PCB-63											
289.9224	29:16	29:16	-1	0.868	1897089	372905	1420	3550	263		
291.9194	29:15	29:16	-1	0.868	2296058	477095	2362	5905	202	0.83(0.65-0.89)	
PCB-61											
289.9224	29:36	29:36	-1	0.878	8371622	935078	1420	3550	659		
291.9194	29:36	29:36	-1	0.878	10383819	1171916	2362	5905	496	0.81(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:36	29:36	-1	0.878	8371622	935078	1420	3550	659		
291.9194	29:36	29:36	-1	0.878	10383819	1171916	2362	5905	496	0.81(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-74 (C61)											
289.9224	29:36	29:36	-1	0.878	8371622	935078	1420	3550	659		
291.9194	29:36	29:36	-1	0.878	10383819	1171916	2362	5905	496	0.81(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:36	29:36	-1	0.878	8371622	935078	1420	3550	659		
291.9194	29:36	29:36	-1	0.878	10383819	1171916	2362	5905	496	0.81(0.65-0.89)	
PCB-66											
289.9224	29:55	29:56	-1	0.887	2217853	431822	1420	3550	304		
291.9194	29:55	29:56	-1	0.887	2732937	544093	2362	5905	230	0.81(0.65-0.89)	
PCB-55											
289.9224	30:05	30:05	-1	0.893	2202087	438735	1420	3550	309		
291.9194	30:05	30:05	-1	0.892	2696046	555047	2362	5905	235	0.82(0.65-0.89)	
PCB-56											
289.9224	30:36	30:36	-1	0.908	2123281	431601	1420	3550	304		
291.9194	30:35	30:36	-1	0.907	2624423	529925	2362	5905	224	0.81(0.65-0.89)	
PCB-60											
289.9224	30:48	30:48	-1	0.914	1818360	359645	1420	3550	253		
291.9194	30:48	30:48	-1	0.914	2292618	462131	2362	5905	196	0.79(0.65-0.89)	
PCB-80											
289.9224	31:12	31:12	-1	0.926	2141038	422144	1420	3550	297		
291.9194	31:12	31:12	-1	0.926	2653638	533205	2362	5905	226	0.81(0.65-0.89)	
PCB-79											
289.9224	32:44	32:44	-1	0.971	2518733	449868	1420	3550	317		
291.9194	32:43	32:44	-1	0.971	3151593	577831	2362	5905	245	0.80(0.65-0.89)	
PCB-78											
289.9224	33:17	33:17	0	0.987	2190784	405808	1420	3550	286		
291.9194	33:17	33:17	0	0.987	2782786	522571	2362	5905	221	0.79(0.65-0.89)	
PCB-81											
289.9224	33:43	33:43	0	1.000	1700953	327032	1420	3550	230		
291.9194	33:44	33:43	0	1.001	2134735	406853	2362	5905	172	0.80(0.65-0.89)	
PCB-77											
289.9224	34:18	34:18	-1	1.001	1941247	370312	1420	3550	261		
291.9194	34:18	34:18	-1	1.001	2426794	453988	2362	5905	192	0.80(0.65-0.89)	
PCB-104L											
337.9207	25:44	25:44	-1	0.814	2647328	587785	106	265	5545		
339.9178	25:44	25:44	-1	0.814	1652512	356539	47	117	7586	1.60(1.32-1.78)	
PCB-101L											
337.9207	31:37	31:39	-1		2683115	552114	106	265	5209		
339.9178	31:37	31:39	-1		1681116	347543	47	117	7395	1.60(1.32-1.78)	
PCB-111L											
337.9207	34:18	34:17	-1	1.084	3014820	614262	106	265	5795		
339.9178	34:18	34:17	-1	1.084	1881509	384041	47	117	8171	1.60(1.32-1.78)	
PCB-123L											
337.9207	36:15	36:15	-1	1.147	5412466	1086093	4718	11795	230		
339.9178	36:15	36:15	-1	1.147	3382108	679891	2781	6952	244	1.60(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118L											
337.9207	36:35	36:34	-1	1.157	5722537	1099102	4718	11795	233		
339.9178	36:35	36:34	-1	1.157	3613336	693347	2781	6952	249	1.58(1.32-1.78)	
PCB-114L											
337.9207	37:07	37:06	-1	1.174	5386998	1043445	4718	11795	221		
339.9178	37:07	37:06	-1	1.174	3379350	654346	2781	6952	235	1.59(1.32-1.78)	
PCB-105L											
337.9207	37:46	37:45	-1	1.194	5376996	1027471	4718	11795	218		
339.9178	37:46	37:45	-1	1.194	3268688	622344	2781	6952	224	1.65(1.32-1.78)	
PCB-127L											
337.9207	39:14	39:14	0		6442511	1243737	4718	11795	264		
339.9178	39:14	39:14	0		4010752	777083	2781	6952	279	1.61(1.32-1.78)	
PCB-126L											
337.9207	40:51	40:49	0	1.292	5431258	1000863	4718	11795	212		
339.9178	40:51	40:49	0	1.292	3412887	639877	2781	6952	230	1.59(1.32-1.78)	
PCB-104											
325.8804	25:46	25:46	-1	1.001	1409408	311861	128	320	2436		
327.8775	25:46	25:46	-1	1.001	887069	199982	95	237	2105	1.59(1.32-1.78)	
PCB-96											
325.8804	26:09	26:09	-1	1.016	1573655	338999	128	320	2648		
327.8775	26:09	26:09	-1	1.016	994571	216480	95	237	2279	1.58(1.32-1.78)	
PCB-103											
325.8804	28:04	28:03	-1	1.090	1178883	251877	128	320	1968		
327.8775	28:04	28:03	-1	1.090	723020	157476	95	237	1658	1.63(1.32-1.78)	
PCB-94											
325.8804	28:17	28:17	-1	1.099	1015154	220238	128	320	1721		
327.8775	28:17	28:17	-1	1.099	651972	137345	95	237	1446	1.56(1.32-1.78)	
PCB-95											
325.8804	28:44	28:43	-1	1.117	1146955	250720	128	320	1959		
327.8775	28:43	28:43	-1	1.116	702901	148346	95	237	1562	1.63(1.32-1.78)	
PCB-93											
325.8804	28:56	28:56	-1	1.125	2221144	411832	128	320	3217		
327.8775	28:56	28:56	-1	1.125	1390119	253722	95	237	2671	1.60(1.32-1.78)	
PCB-100 (C93)											
325.8804	28:56	28:56	-1	1.125	2221144	411832	128	320	3217		
327.8775	28:56	28:56	-1	1.125	1390119	253722	95	237	2671	1.60(1.32-1.78)	
PCB-98											
325.8804	29:06	29:06	-1	1.131	2659893	318989	128	320	2492		M
327.8775	29:06	29:06	-1	1.131	1716883	199529	95	237	2100	1.55(1.32-1.78)	M
PCB-102 (C98)											
325.8804	29:06	29:06	-1	1.131	2659893	318989	128	320	2492		M
327.8775	29:06	29:06	-1	1.131	1716883	199529	95	237	2100	1.55(1.32-1.78)	M
PCB-88											
325.8804	29:36	29:35	-1	1.150	2273945	253134	128	320	1978		
327.8775	29:36	29:35	-1	1.150	1412993	160640	95	237	1691	1.61(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-91 (C88)											
325.8804	29:36	29:35	-1	1.150	2273945	253134	128	320	1978		
327.8775	29:36	29:35	-1	1.150	1412993	160640	95	237	1691	1.61(1.32-1.78)	
PCB-84											
325.8804	29:49	29:49	-1	1.159	1028512	206639	128	320	1614		
327.8775	29:49	29:49	-1	1.159	658632	130034	95	237	1369	1.56(1.32-1.78)	
PCB-89											
325.8804	30:18	30:17	0	1.177	1243954	265994	128	320	2078		
327.8775	30:18	30:17	0	1.177	790925	162158	95	237	1707	1.57(1.32-1.78)	
PCB-121											
325.8804	30:41	30:41	-1	1.192	1809371	365655	128	320	2857		
327.8775	30:41	30:41	-1	1.192	1134657	229573	95	237	2417	1.59(1.32-1.78)	
PCB-92											
325.8804	31:04	31:04	0	0.857	1165431	233264	128	320	1822		
327.8775	31:04	31:04	0	0.857	711793	144859	95	237	1525	1.64(1.32-1.78)	
PCB-90											
325.8804	31:37	31:37	-1	1.229	4103365	587088	128	320	4587		
327.8775	31:38	31:37	-1	1.229	2558998	378432	95	237	3983	1.60(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:37	31:37	-1	1.229	4103365	587088	128	320	4587		
327.8775	31:38	31:37	-1	1.229	2558998	378432	95	237	3983	1.60(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:37	31:37	-1	1.229	4103365	587088	128	320	4587		
327.8775	31:38	31:37	-1	1.229	2558998	378432	95	237	3983	1.60(1.32-1.78)	
PCB-83											
325.8804	32:13	32:12	-1	1.252	2607272	324428	128	320	2535		
327.8775	32:13	32:12	-1	1.252	1604447	206046	95	237	2169	1.63(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:13	32:12	-1	1.252	2607272	324428	128	320	2535		
327.8775	32:13	32:12	-1	1.252	1604447	206046	95	237	2169	1.63(1.32-1.78)	
PCB-112											
325.8804	32:21	32:20	-1	1.257	2045338	409313	128	320	3198		
327.8775	32:20	32:20	-1	1.257	1342545	252871	95	237	2662	1.52(1.32-1.78)	
PCB-86											
325.8804	32:43	32:43	-1	1.272	8970552	918430	128	320	7175		M
327.8775	32:43	32:43	-1	1.272	5589533	577668	95	237	6081	1.60(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:43	32:43	-1	1.272	8970552	918430	128	320	7175		M
327.8775	32:43	32:43	-1	1.272	5589533	577668	95	237	6081	1.60(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:43	32:43	-1	1.272	8970552	918430	128	320	7175		M
327.8775	32:43	32:43	-1	1.272	5589533	577668	95	237	6081	1.60(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:43	32:43	-1	1.272	8970552	918430	128	320	7175		M
327.8775	32:43	32:43	-1	1.272	5589533	577668	95	237	6081	1.60(1.32-1.78)	M



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											M
325.8804	32:43	32:43	-1	1.272	8970552	918430	128	320	7175		M
327.8775	32:43	32:43	-1	1.272	5589533	577668	95	237	6081	1.60(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:43	32:43	-1	1.272	8970552	918430	128	320	7175		M
327.8775	32:43	32:43	-1	1.272	5589533	577668	95	237	6081	1.60(1.32-1.78)	M
PCB-85											
325.8804	33:26	33:26	-1	1.299	4471436	546518	128	320	4270		
327.8775	33:26	33:26	-1	1.299	2799360	332349	95	237	3498	1.60(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:26	33:26	-1	1.299	4471436	546518	128	320	4270		
327.8775	33:26	33:26	-1	1.299	2799360	332349	95	237	3498	1.60(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:26	33:26	-1	1.299	4471436	546518	128	320	4270		
327.8775	33:26	33:26	-1	1.299	2799360	332349	95	237	3498	1.60(1.32-1.78)	
PCB-110											
325.8804	33:39	33:38	0	1.308	3884084	521438	128	320	4074		
327.8775	33:39	33:38	0	1.308	2457557	336133	95	237	3538	1.58(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:39	33:38	0	1.308	3884084	521438	128	320	4074		
327.8775	33:39	33:38	0	1.308	2457557	336133	95	237	3538	1.58(1.32-1.78)	
PCB-82											
325.8804	33:57	33:56	0	1.319	1286834	248937	128	320	1945		
327.8775	33:57	33:56	0	1.319	805226	154517	95	237	1626	1.60(1.32-1.78)	
PCB-111											
325.8804	34:19	34:18	0	1.334	1774529	353970	128	320	2765		
327.8775	34:20	34:18	0	1.334	1096837	218462	95	237	2300	1.62(1.32-1.78)	
PCB-120											
325.8804	34:47	34:46	0	1.352	2171708	428337	128	320	3346		
327.8775	34:47	34:46	0	1.352	1348161	268398	95	237	2825	1.61(1.32-1.78)	
PCB-108											
325.8804	35:55	35:55	-1	1.396	6386417	1256275	4247	10617	296		
327.8775	35:56	35:55	-1	1.396	4049185	790326	2081	5202	380	1.58(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:55	35:55	-1	1.396	6386417	1256275	4247	10617	296		
327.8775	35:56	35:55	-1	1.396	4049185	790326	2081	5202	380	1.58(1.32-1.78)	
PCB-107											
325.8804	36:10	36:09	-1	1.405	3453526	680087	4247	10617	160		
327.8775	36:10	36:09	-1	1.405	2370902	427443	2081	5202	205	1.46(1.32-1.78)	
PCB-123											
325.8804	36:17	36:17	-1	1.001	3082119	598927	4247	10617	141		
327.8775	36:17	36:17	-1	1.001	1806892	389958	2081	5202	187	1.71(1.32-1.78)	
PCB-106											
325.8804	36:24	36:24	-1	1.004	3346279	659145	4247	10617	155		
327.8775	36:24	36:24	-1	1.004	2181069	426965	2081	5202	205	1.53(1.32-1.78)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118											
325.8804	36:37	36:37	-1	1.001	3269209	586317	4247	10617	138		
327.8775	36:37	36:37	-1	1.001	1956227	369307	2081	5202	177	1.67(1.32-1.78)	
PCB-122											
325.8804	36:58	36:58	-1	1.010	2679661	527867	4247	10617	124		
327.8775	36:58	36:58	-1	1.010	1710543	335707	2081	5202	161	1.57(1.32-1.78)	
PCB-114											
325.8804	37:08	37:08	-1	1.001	3163322	567590	4247	10617	134		
327.8775	37:08	37:08	-1	1.001	1980746	361979	2081	5202	174	1.60(1.32-1.78)	
PCB-105											
325.8804	37:48	37:48	-1	1.001	3188332	560750	4247	10617	132		
327.8775	37:48	37:48	-1	1.001	1946357	361559	2081	5202	174	1.64(1.32-1.78)	
PCB-127											
325.8804	39:15	39:15	0	1.039	3528660	644925	4247	10617	152		
327.8775	39:15	39:15	0	1.039	2241658	411406	2081	5202	198	1.57(1.32-1.78)	
PCB-126											
325.8804	40:52	40:52	0	1.001	3602883	612100	4247	10617	144		
327.8775	40:52	40:52	0	1.001	2265965	395252	2081	5202	190	1.59(1.32-1.78)	
PCB-155L											
371.8817	31:23	31:24	-1	0.790	2285234	477707	106	265	4507		
373.8788	31:23	31:24	-1	0.790	1814227	383656	70	175	5481	1.26(1.05-1.43)	
PCB-138L											
371.8817	39:42	39:42	0		3663699	718621	1699	4247	423		
373.8788	39:42	39:42	0		2826633	541199	1053	2632	514	1.30(1.05-1.43)	
PCB-167L											
371.8817	42:42	42:42	0	1.075	3966179	777775	1699	4247	458		
373.8788	42:42	42:42	0	1.075	3096232	596595	1053	2632	567	1.28(1.05-1.43)	
PCB-156L											
371.8817	43:51	43:52	-1	1.105	7917754	1005042	1699	4247	592		
373.8788	43:51	43:52	-1	1.105	6121273	786088	1053	2632	747	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:51	43:52	-1	1.105	7917754	1005042	1699	4247	592		
373.8788	43:51	43:52	-1	1.105	6121273	786088	1053	2632	747	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:05	0	1.186	4192660	774974	1699	4247	456		
373.8788	47:05	47:05	0	1.186	3284556	601585	1053	2632	571	1.28(1.05-1.43)	
PCB-155											
359.8415	31:24	31:24	0	1.001	1025262	218194	86	215	2537		
361.8385	31:24	31:24	0	1.001	824421	174883	80	200	2186	1.24(1.05-1.43)	
PCB-152											
359.8415	31:37	31:37	-1	1.008	1252305	265177	86	215	3083		
361.8385	31:37	31:37	-1	1.008	1006548	213308	80	200	2666	1.24(1.05-1.43)	
PCB-150											
359.8415	31:47	31:47	-1	1.013	1136721	232175	86	215	2700		
361.8385	31:47	31:47	-1	1.013	926142	184782	80	200	2310	1.23(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											
359.8415	32:10	32:09	-1	1.025	1086809	223056	86	215	2594		
361.8385	32:10	32:09	-1	1.025	852659	173571	80	200	2170	1.27(1.05-1.43)	
PCB-145											
359.8415	32:26	32:26	-1	1.034	1240868	251254	86	215	2922		
361.8385	32:26	32:26	-1	1.034	1002126	210177	80	200	2627	1.24(1.05-1.43)	
PCB-148											
359.8415	33:57	33:56	0	1.082	823120	165765	86	215	1928		
361.8385	33:56	33:56	-1	1.081	664820	135352	80	200	1692	1.24(1.05-1.43)	
PCB-135											
359.8415	34:36	34:36	3	1.103	1756162	202090	86	215	2350		M
361.8385	34:36	34:36	3	1.103	1377856	165776	80	200	2072	1.27(1.05-1.43)	M
PCB-151 (C135)											
359.8415	34:36	34:36	3	1.103	1756162	202090	86	215	2350		M
361.8385	34:36	34:36	3	1.103	1377856	165776	80	200	2072	1.27(1.05-1.43)	M
PCB-154											
359.8415	34:47	34:47	-1	1.108	937066	194640	86	215	2263		
361.8385	34:47	34:47	-1	1.108	730474	151920	80	200	1899	1.28(1.05-1.43)	
PCB-144											
359.8415	35:06	35:06	-1	1.119	862695	170402	86	215	1981		
361.8385	35:06	35:06	-1	1.119	677265	143464	80	200	1793	1.27(1.05-1.43)	
PCB-147											
359.8415	35:28	35:27	-1	1.130	3812242	732692	806	2015	909		
361.8385	35:28	35:27	-1	1.130	2973442	563684	799	1997	705	1.28(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:28	35:27	-1	1.130	3812242	732692	806	2015	909		
361.8385	35:28	35:27	-1	1.130	2973442	563684	799	1997	705	1.28(1.05-1.43)	
PCB-134											
359.8415	35:46	35:45	-1	1.140	2865521	318071	806	2015	395		
361.8385	35:46	35:45	-1	1.140	2298757	258728	799	1997	324	1.25(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:46	35:45	-1	1.140	2865521	318071	806	2015	395		
361.8385	35:46	35:45	-1	1.140	2298757	258728	799	1997	324	1.25(1.05-1.43)	
PCB-139											
359.8415	36:04	36:03	-1	1.149	3463562	621734	806	2015	771		
361.8385	36:04	36:03	-1	1.149	2759244	490227	799	1997	614	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:04	36:03	-1	1.149	3463562	621734	806	2015	771		
361.8385	36:04	36:03	-1	1.149	2759244	490227	799	1997	614	1.26(1.05-1.43)	
PCB-131											
359.8415	36:16	36:15	-1	1.156	1501084	302134	806	2015	375		
361.8385	36:16	36:15	-1	1.156	1161818	235699	799	1997	295	1.29(1.05-1.43)	
PCB-142											
359.8415	36:25	36:24	-1	1.160	1471798	288254	806	2015	358		
361.8385	36:25	36:24	-1	1.160	1140681	218977	799	1997	274	1.29(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-132											
359.8415	36:45	36:44	-1	1.171	1548962	315182	806	2015	391		
361.8385	36:45	36:44	-1	1.171	1237775	244227	799	1997	306	1.25(1.05-1.43)	
PCB-133											
359.8415	37:14	37:13	-1	1.186	1673812	322709	806	2015	400		
361.8385	37:14	37:13	-1	1.186	1289628	256503	799	1997	321	1.30(1.05-1.43)	
PCB-165											
359.8415	37:37	37:38	-1	0.881	1942799	386162	806	2015	479		
361.8385	37:37	37:38	-1	0.881	1544414	312249	799	1997	391	1.26(1.05-1.43)	
PCB-146											
359.8415	37:52	37:52	-1	0.887	1920372	393724	806	2015	488		
361.8385	37:52	37:52	0	0.887	1512365	301165	799	1997	377	1.27(1.05-1.43)	
PCB-161											
359.8415	38:00	38:00	0	0.890	2374397	453679	806	2015	563		
361.8385	37:59	38:00	-1	0.890	1846019	369911	799	1997	463	1.29(1.05-1.43)	
PCB-153											
359.8415	38:29	38:30	-1	0.902	4278618	618371	806	2015	767		
361.8385	38:30	38:30	0	0.902	3435536	484281	799	1997	606	1.25(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:29	38:30	-1	0.902	4278618	618371	806	2015	767		
361.8385	38:30	38:30	0	0.902	3435536	484281	799	1997	606	1.25(1.05-1.43)	
PCB-141											
359.8415	38:40	38:41	0	0.906	1727132	319514	806	2015	396		
361.8385	38:40	38:41	0	0.906	1306019	253909	799	1997	318	1.32(1.05-1.43)	
PCB-130											
359.8415	39:06	39:06	0	0.916	1335782	260735	806	2015	323		
361.8385	39:06	39:06	0	0.916	1073968	213044	799	1997	267	1.24(1.05-1.43)	
PCB-137											
359.8415	39:18	39:18	0	0.921	1566481	310932	806	2015	386		
361.8385	39:18	39:18	0	0.921	1242929	244852	799	1997	306	1.26(1.05-1.43)	
PCB-164											
359.8415	39:26	39:26	0	0.924	2385064	465256	806	2015	577		
361.8385	39:26	39:26	0	0.924	1885627	369355	799	1997	462	1.26(1.05-1.43)	
PCB-129											
359.8415	39:44	39:44	0	0.931	7408765	837982	806	2015	1040		M
361.8385	39:44	39:44	0	0.931	5937256	672135	799	1997	841	1.25(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:44	39:44	0	0.931	7408765	837982	806	2015	1040		M
361.8385	39:44	39:44	0	0.931	5937256	672135	799	1997	841	1.25(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:44	39:44	0	0.931	7408765	837982	806	2015	1040		M
361.8385	39:44	39:44	0	0.931	5937256	672135	799	1997	841	1.25(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:44	39:44	0	0.931	7408765	837982	806	2015	1040		M
361.8385	39:44	39:44	0	0.931	5937256	672135	799	1997	841	1.25(1.05-1.43)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	40:07	40:06	0	0.940	2369252	435609	806	2015	540		
361.8385	40:06	40:06	0	0.939	1875739	349147	799	1997	437	1.26(1.05-1.43)	
PCB-128											
359.8415	40:57	40:58	-1	0.959	3993331	568190	806	2015	705		
361.8385	40:58	40:58	0	0.959	3186596	451762	799	1997	565	1.25(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:57	40:58	-1	0.959	3993331	568190	806	2015	705		
361.8385	40:58	40:58	0	0.959	3186596	451762	799	1997	565	1.25(1.05-1.43)	
PCB-159											
359.8415	41:57	41:57	0	0.983	2683068	528446	806	2015	656		
361.8385	41:57	41:57	0	0.983	2103058	411721	799	1997	515	1.28(1.05-1.43)	
PCB-162											
359.8415	42:15	42:15	0	0.990	2373615	437686	806	2015	543		
361.8385	42:15	42:15	0	0.990	1895459	354516	799	1997	444	1.25(1.05-1.43)	
PCB-167											
359.8415	42:43	42:43	0	1.001	2306421	430538	806	2015	534		
361.8385	42:43	42:43	0	1.001	1847246	343533	799	1997	430	1.25(1.05-1.43)	
PCB-156											
359.8415	43:53	43:53	-1	1.001	4405063	557478	806	2015	692		
361.8385	43:52	43:53	-2	1.000	3460160	424875	799	1997	532	1.27(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:53	43:53	-1	1.001	4405063	557478	806	2015	692		
361.8385	43:52	43:53	-2	1.000	3460160	424875	799	1997	532	1.27(1.05-1.43)	
PCB-169											
359.8415	47:07	47:06	0	1.001	2728100	477721	806	2015	593		
361.8385	47:06	47:06	0	1.000	2133119	375703	799	1997	470	1.28(1.05-1.43)	
PCB-188L											
405.8428	37:06	37:07	-1	0.820	2718560	545983	96	240	5687		
407.8398	37:06	37:07	-1	0.820	2524444	487427	78	195	6249	1.08(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:10	0	0.888	2099054	412415	96	240	4296		
407.8398	40:10	40:10	0	0.888	1963671	383500	78	195	4917	1.07(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:14	0		2555353	493086	96	240	5136		
407.8398	45:14	45:14	0		2386352	457479	78	195	5865	1.07(0.89-1.21)	
PCB-170L											
405.8428	46:30	46:30	0	1.028	1956216	375653	96	240	3913		
407.8398	46:29	46:30	0	1.028	1826410	353029	78	195	4526	1.07(0.89-1.21)	
PCB-189L											
405.8428	49:36	49:37	0	1.096	5671527	1078609	1752	4380	616		
407.8398	49:36	49:37	0	1.096	5391885	1007954	1194	2985	844	1.05(0.89-1.21)	
PCB-188											
393.8025	37:07	37:07	-1	1.001	1513800	305261	78	195	3914		
395.7995	37:07	37:07	-1	1.001	1434966	288198	108	270	2669	1.05(0.89-1.21)	

Chrom Revision: 2.3 26-Jun-2024 16:13:32

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Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:37	44:37	0	0.899	1190637	232640	78	195	2983		
395.7995	44:37	44:37	0	0.899	1090665	212697	108	270	1969	1.09(0.89-1.21)	
PCB-192											
393.8025	44:53	44:53	0	0.905	1730323	322510	78	195	4135		
395.7995	44:53	44:53	0	0.905	1630987	302164	108	270	2798	1.06(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	2913295	402439	78	195	5159		
395.7995	45:14	45:14	0	0.912	2754970	376101	108	270	3482	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	2913295	402439	78	195	5159		
395.7995	45:14	45:14	0	0.912	2754970	376101	108	270	3482	1.06(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.919	1574907	294646	78	195	3778		
395.7995	45:37	45:37	0	0.919	1495362	280357	108	270	2596	1.05(0.89-1.21)	
PCB-170											
393.8025	46:31	46:31	0	0.938	1117856	211597	78	195	2713		
395.7995	46:31	46:31	0	0.938	1067725	205138	108	270	1899	1.05(0.89-1.21)	
PCB-190											
393.8025	47:02	47:02	0	0.948	1567356	289628	78	195	3713		
395.7995	47:02	47:02	0	0.948	1461216	270705	108	270	2507	1.07(0.89-1.21)	
PCB-189											
393.8025	49:37	49:37	0	1.000	2953679	556592	529	1322	1052		
395.7995	49:37	49:37	0	1.000	2758270	513583	383	957	1341	1.07(0.89-1.21)	
PCB-202L											
439.8038	42:27	42:28	-1	0.821	1883281	361114	30	75	12037		
441.8008	42:27	42:28	-1	0.821	2055871	400919	55	137	7289	0.92(0.76-1.02)	
PCB-194L											
439.8038	51:42	51:43	0		3592281	667277	162	405	4119		
441.8008	51:42	51:43	0		3845910	722056	138	345	5232	0.93(0.76-1.02)	
PCB-205L											
439.8038	52:10	52:10	0	1.009	3757612	708045	162	405	4371		
441.8008	52:10	52:10	0	1.009	4100466	766444	138	345	5554	0.92(0.76-1.02)	
PCB-202											
427.7635	42:30	42:29	0	1.001	974061	189218	74	185	2557		
429.7606	42:29	42:29	-1	1.001	1081311	210735	71	177	2968	0.90(0.76-1.02)	
PCB-201											
427.7635	43:24	43:23	0	1.022	934592	175797	74	185	2376		
429.7606	43:24	43:23	0	1.022	1038001	201214	71	177	2834	0.90(0.76-1.02)	
PCB-204											
427.7635	44:04	44:04	0	1.038	1081784	206777	74	185	2794		
429.7606	44:04	44:04	0	1.038	1192175	231089	71	177	3255	0.91(0.76-1.02)	
PCB-197											
427.7635	44:18	44:17	0	1.043	1078638	205299	74	185	2774		
429.7606	44:18	44:17	0	1.043	1087650	224893	71	177	3168	0.99(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:25	44:25	-1	1.046	1006428	195140	74	185	2637		
429.7606	44:25	44:25	-1	1.046	1171308	221561	71	177	3121	0.86(0.76-1.02)	
PCB-198											
427.7635	47:11	47:11	-1	1.111	1822293	230678	74	185	3117		
429.7606	47:12	47:11	0	1.112	1967019	246185	71	177	3467	0.93(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:11	47:11	-1	1.111	1822293	230678	74	185	3117		
429.7606	47:12	47:11	0	1.112	1967019	246185	71	177	3467	0.93(0.76-1.02)	
PCB-196											
427.7635	47:52	47:52	0	0.918	793439	152053	74	185	2055		
429.7606	47:52	47:52	0	0.918	839284	166655	71	177	2347	0.95(0.76-1.02)	
PCB-203											
427.7635	48:03	48:04	-1	0.921	972589	186884	74	185	2525		
429.7606	48:03	48:04	-1	0.921	1109993	219573	71	177	3093	0.88(0.76-1.02)	
PCB-195											
427.7635	49:23	49:23	-1	0.947	1763598	328816	1587	3967	207		
429.7606	49:23	49:23	-1	0.947	1932213	375569	792	1980	474	0.91(0.76-1.02)	
PCB-194											
427.7635	51:44	51:44	0	0.991	1927396	366542	1587	3967	231		
429.7606	51:44	51:44	0	0.991	2146533	401998	792	1980	508	0.90(0.76-1.02)	
PCB-205											
427.7635	52:12	52:12	0	1.000	2263509	405337	1587	3967	255		
429.7606	52:12	52:12	0	1.000	2473440	453651	792	1980	573	0.92(0.76-1.02)	
PCB-208L											
473.7648	49:07	49:08	-1	0.950	2733955	509225	594	1485	857		
475.7619	49:07	49:08	-1	0.950	3440236	651057	533	1332	1221	0.79(0.65-0.89)	
PCB-206L											
473.7648	53:56	53:56	0	1.043	2008972	385314	594	1485	649		
475.7619	53:56	53:56	0	1.043	2474522	467354	533	1332	877	0.81(0.65-0.89)	
PCB-208											
461.7246	49:09	49:08	-1	1.001	1486295	274085	1447	3617	189		
463.7216	49:09	49:08	-1	1.001	1843037	352035	605	1512	582	0.81(0.65-0.89)	
PCB-207											
461.7246	50:05	50:04	0	1.020	1545447	300318	1447	3617	208		
463.7216	50:05	50:04	0	1.020	1944074	370894	605	1512	613	0.79(0.65-0.89)	
PCB-206											
461.7246	53:57	53:57	0	1.000	1322363	245138	1447	3617	169		
463.7216	53:57	53:57	0	1.000	1677293	317142	605	1512	524	0.79(0.65-0.89)	
PCB-209L											
507.7258	55:33	55:33	0	1.074	1874580	323343	75	187	4311		
509.7229	55:33	55:33	0	1.074	2609108	463122	69	172	6712	0.72(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:34	55:34	0	1.000	952981	167506	83	207	2018		
497.6826	55:34	55:34	0	1.000	1319045	234903	42	105	5593	0.72(0.59-0.79)	

## QC Flag Legend

Processing Flags





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

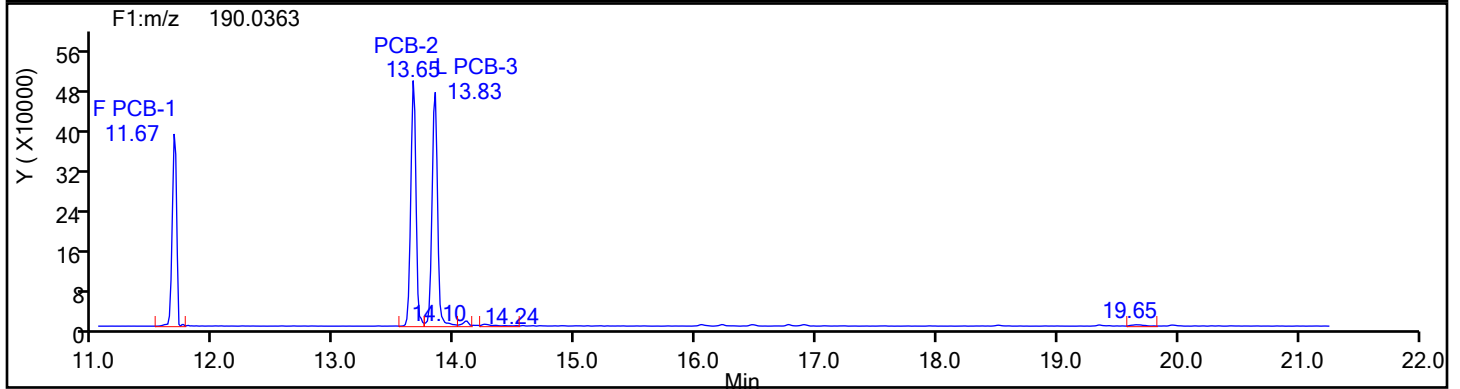
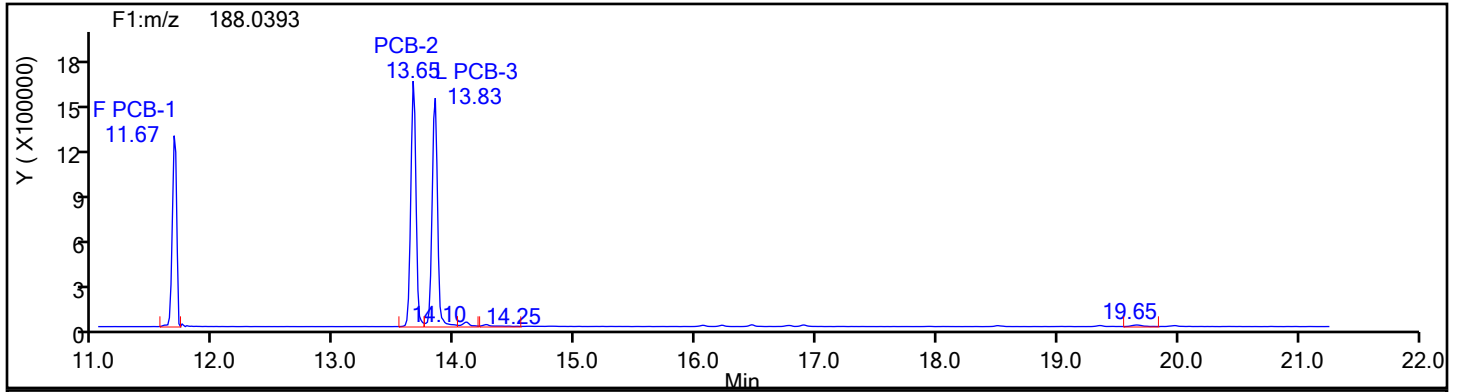
Worklist#: 88205

Sample Line#: 2

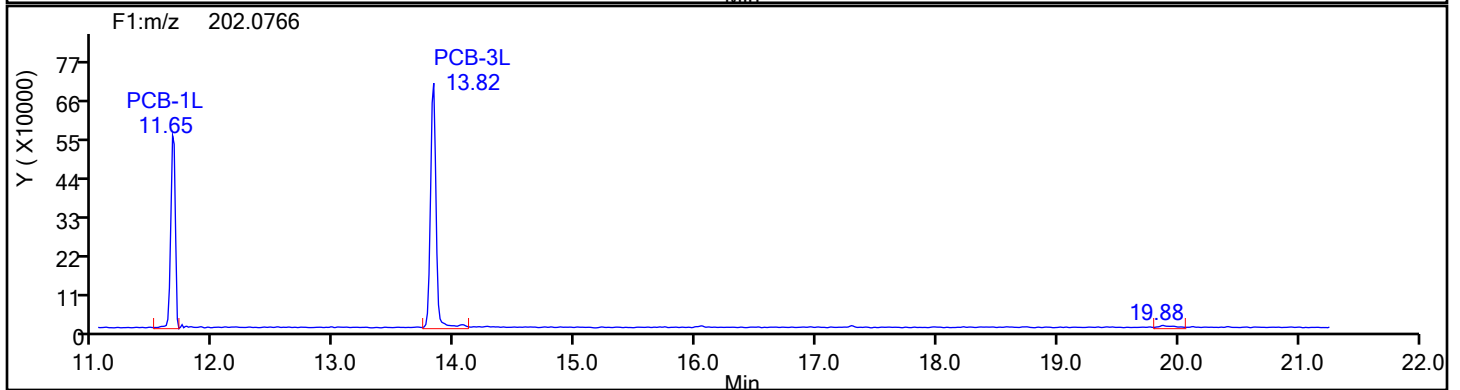
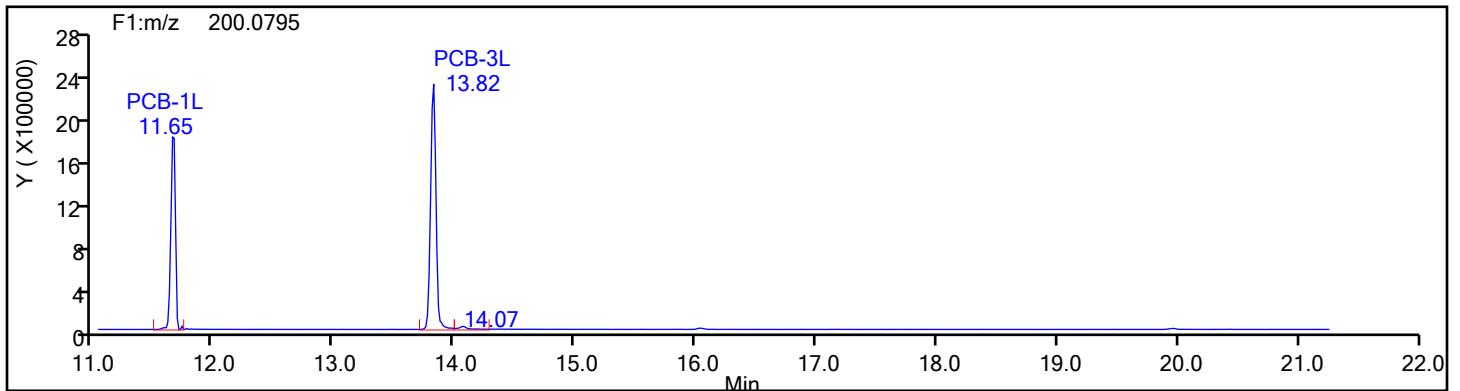
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

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Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

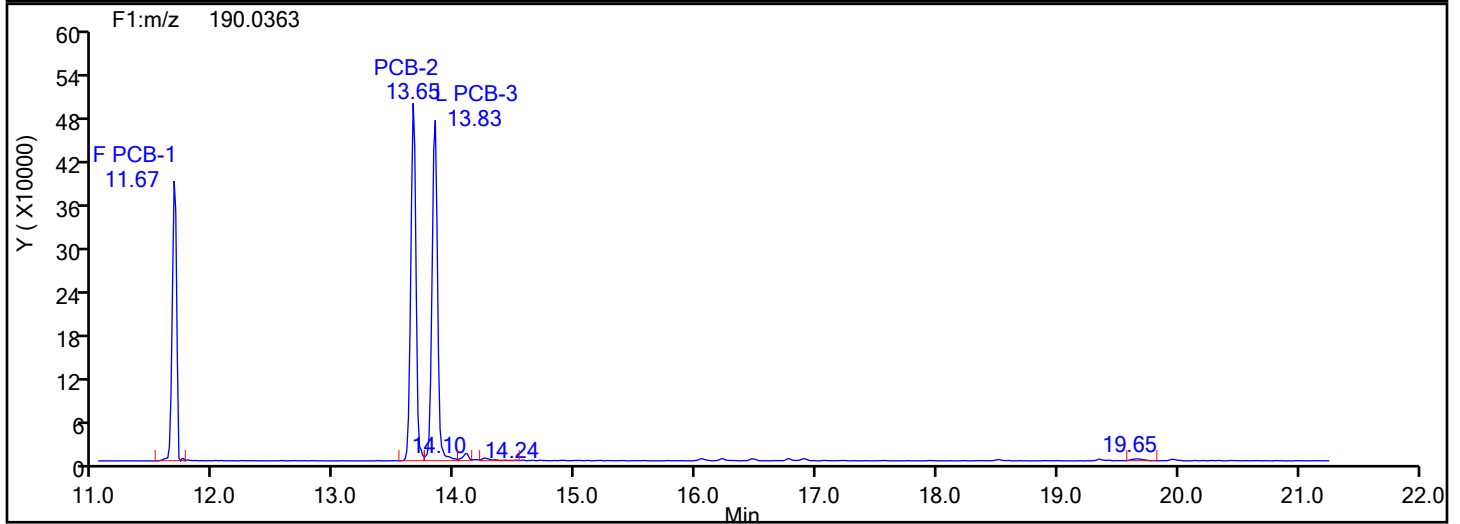
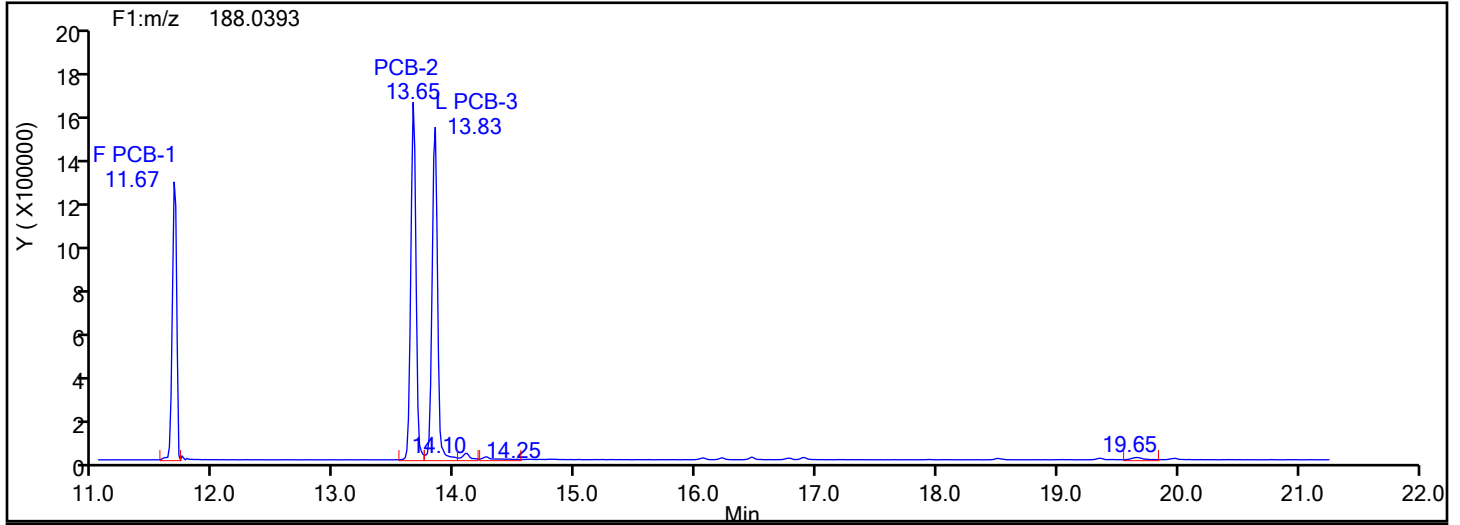
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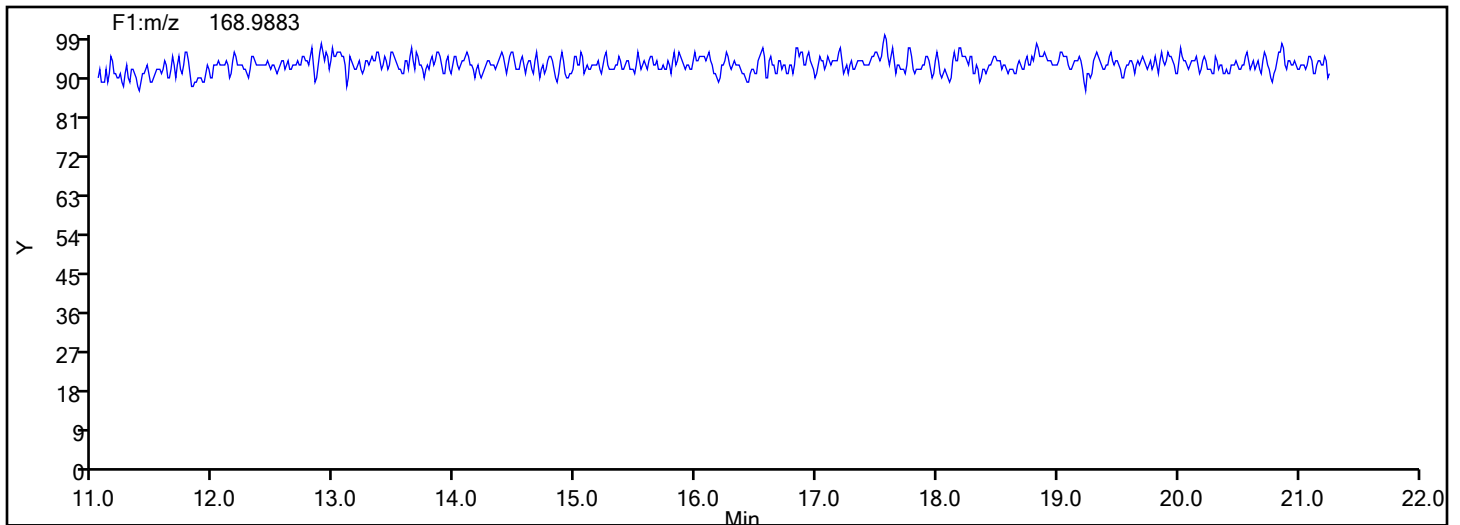
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

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Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

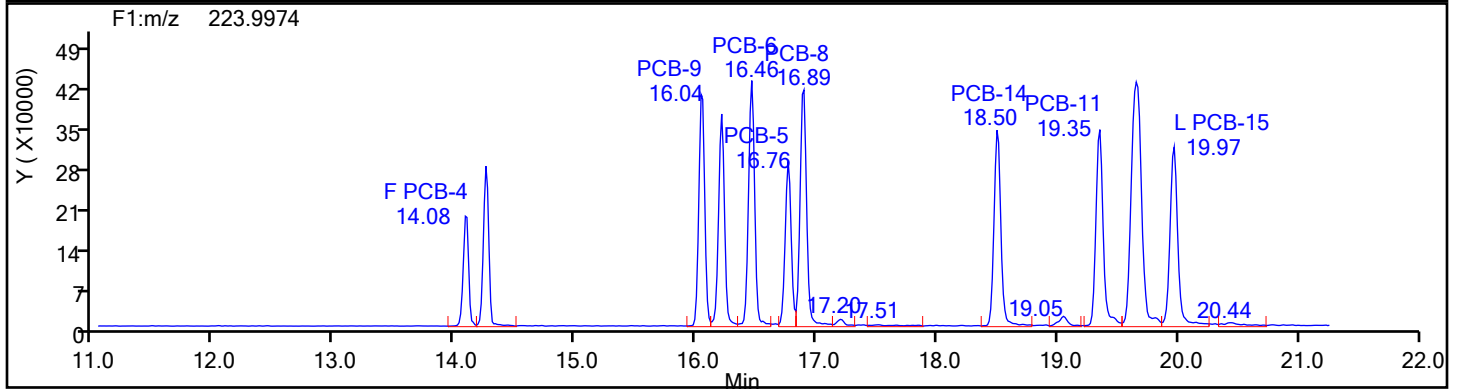
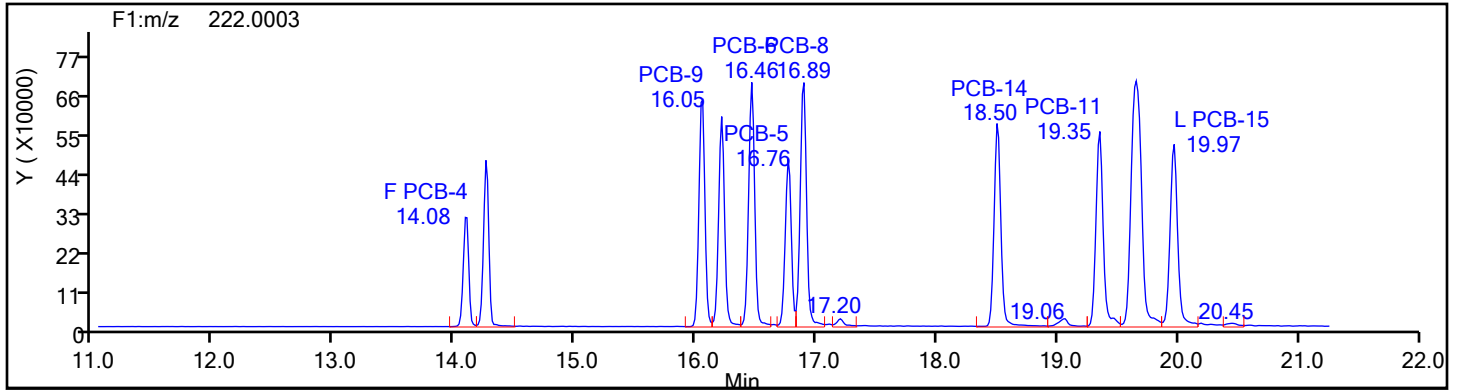
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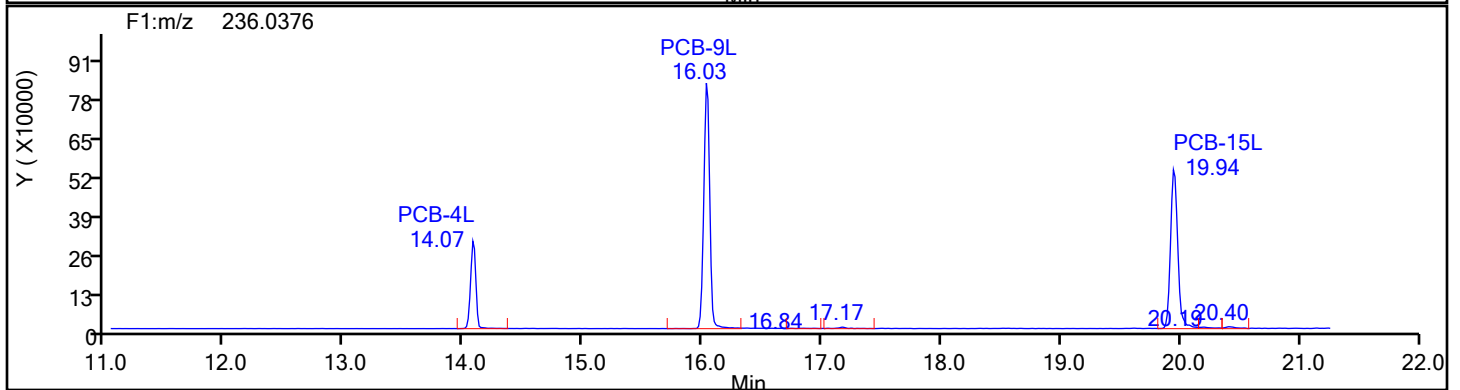
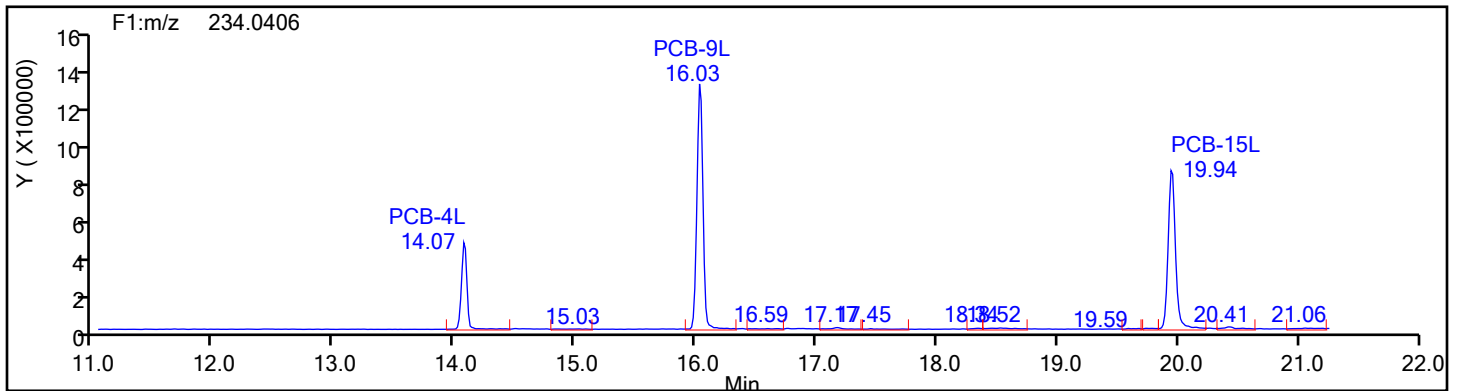
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

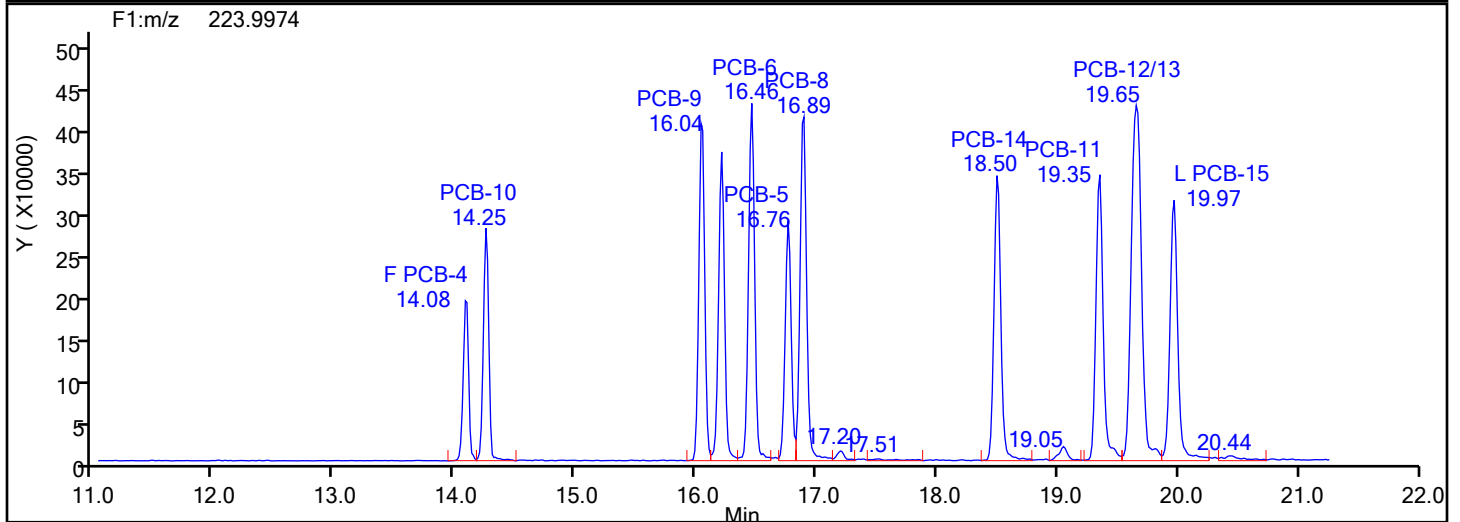
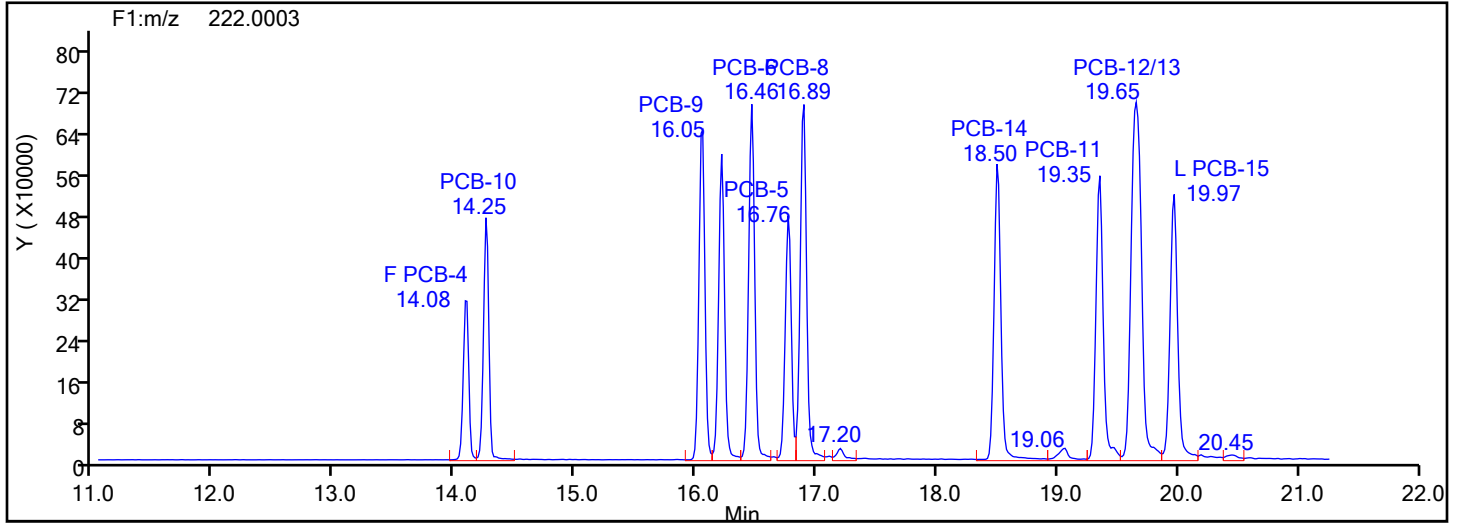
Worklist#: 88205

Sample Line#: 2

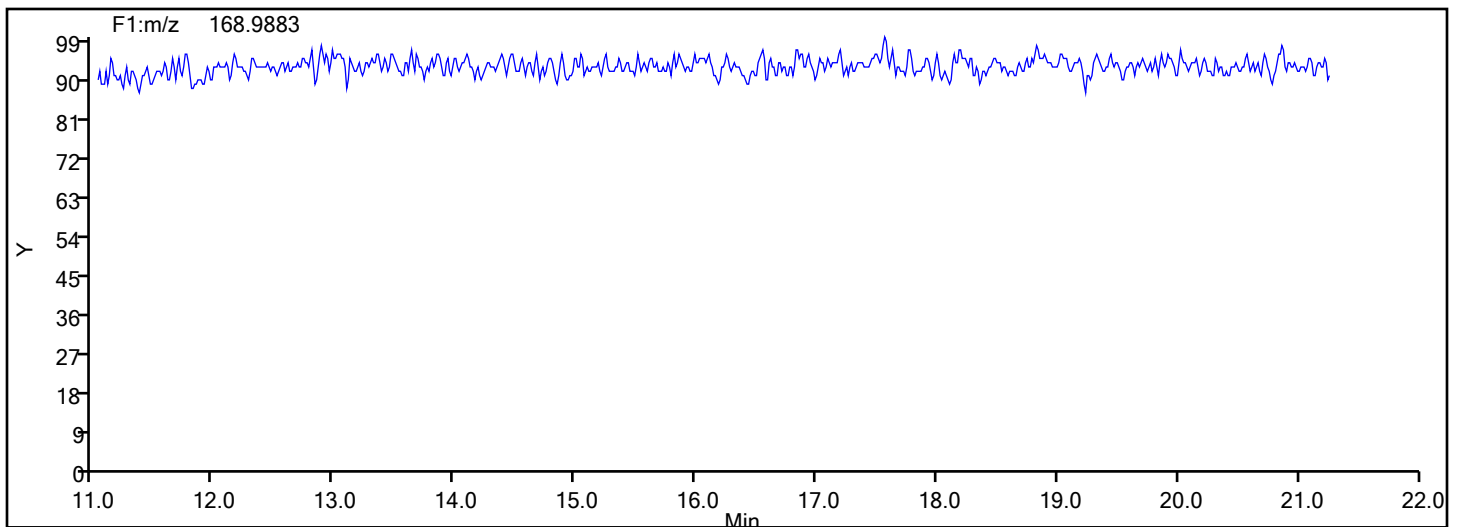
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

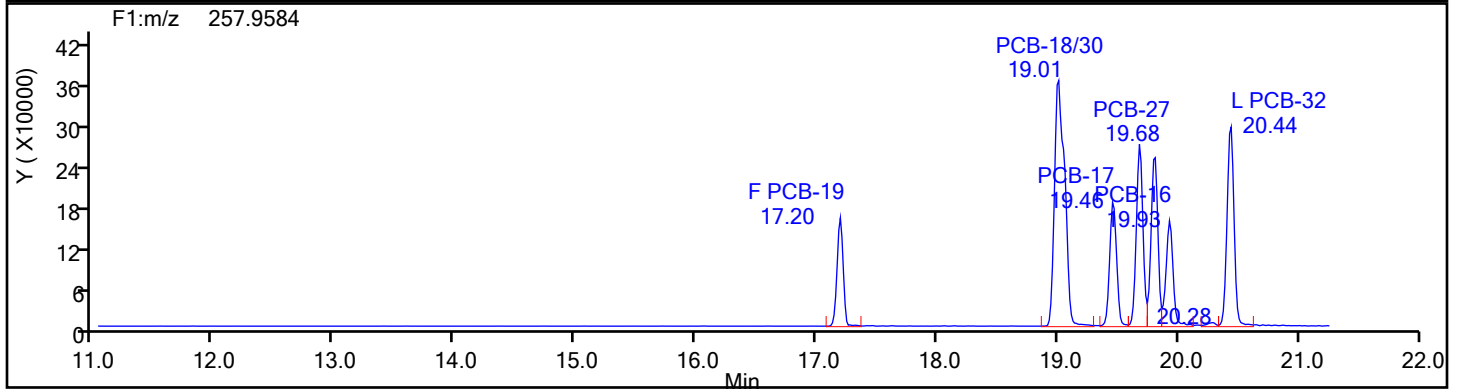
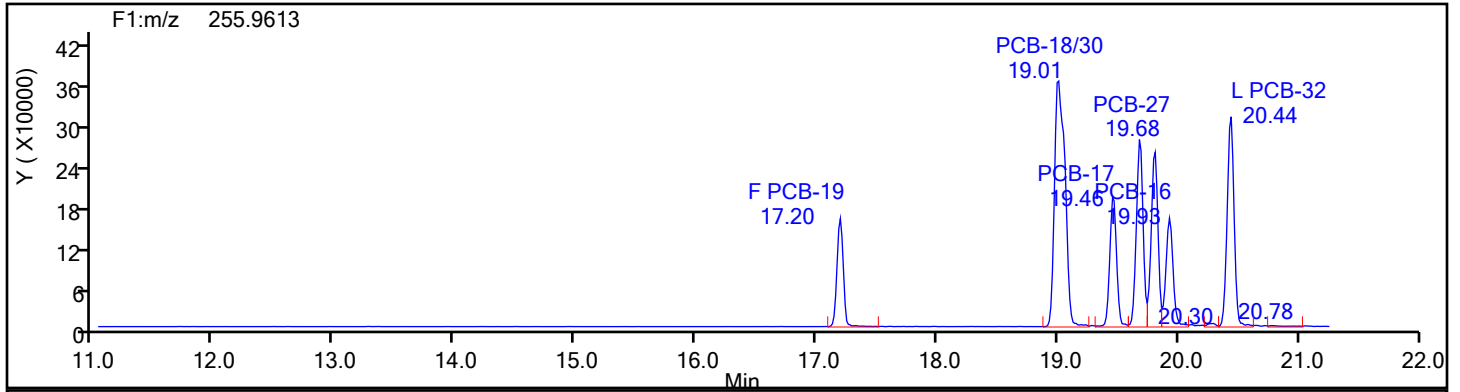
Worklist#: 88205

Sample Line#: 2

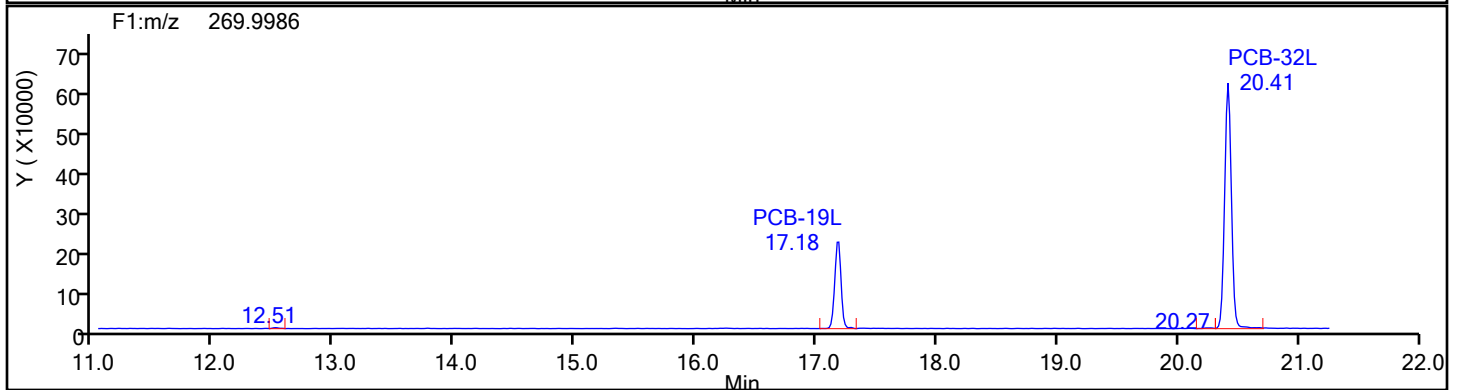
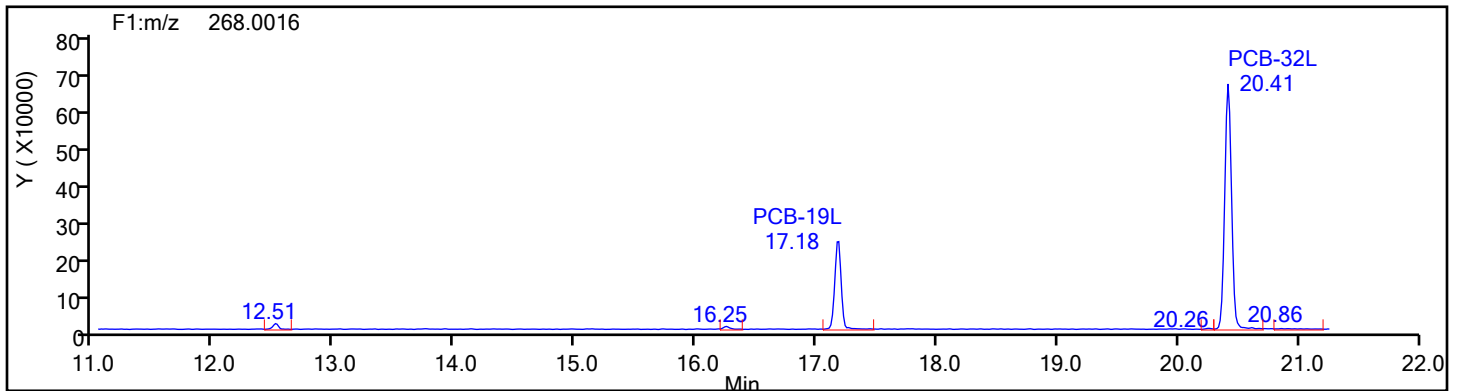
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

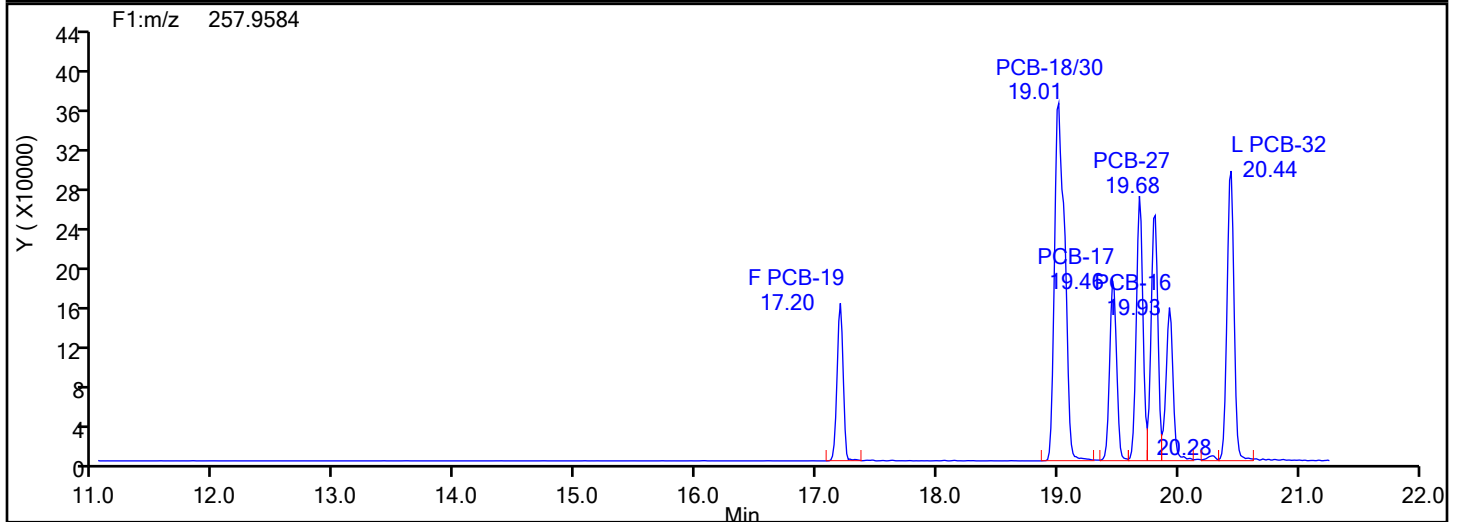
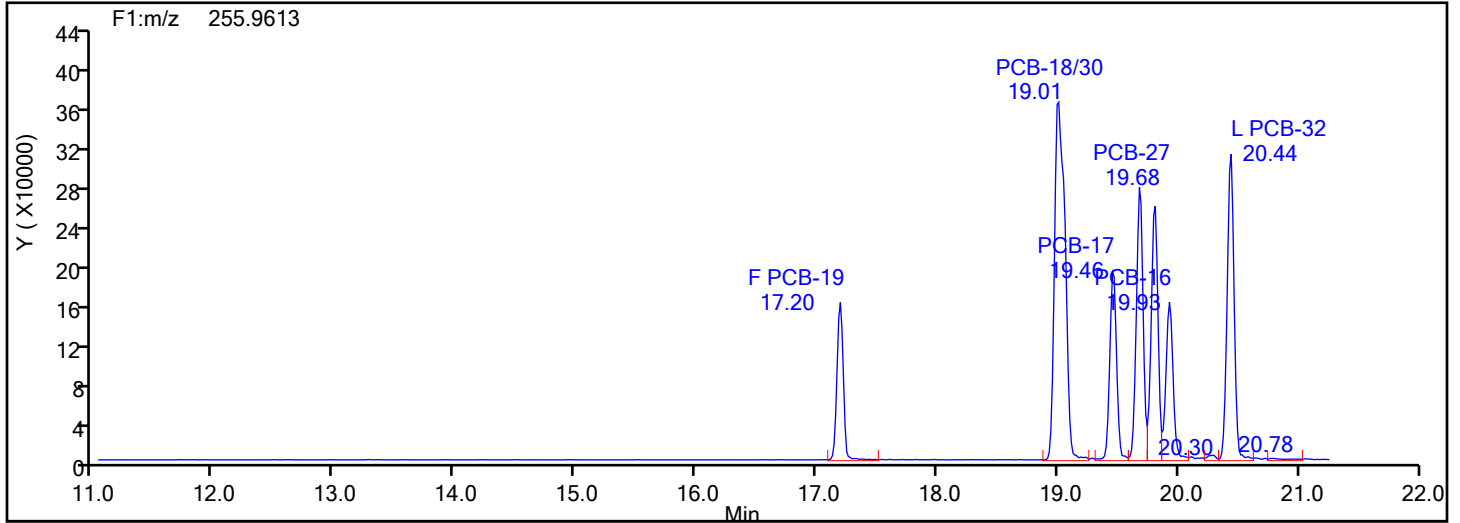
Worklist#: 88205

Sample Line#: 2

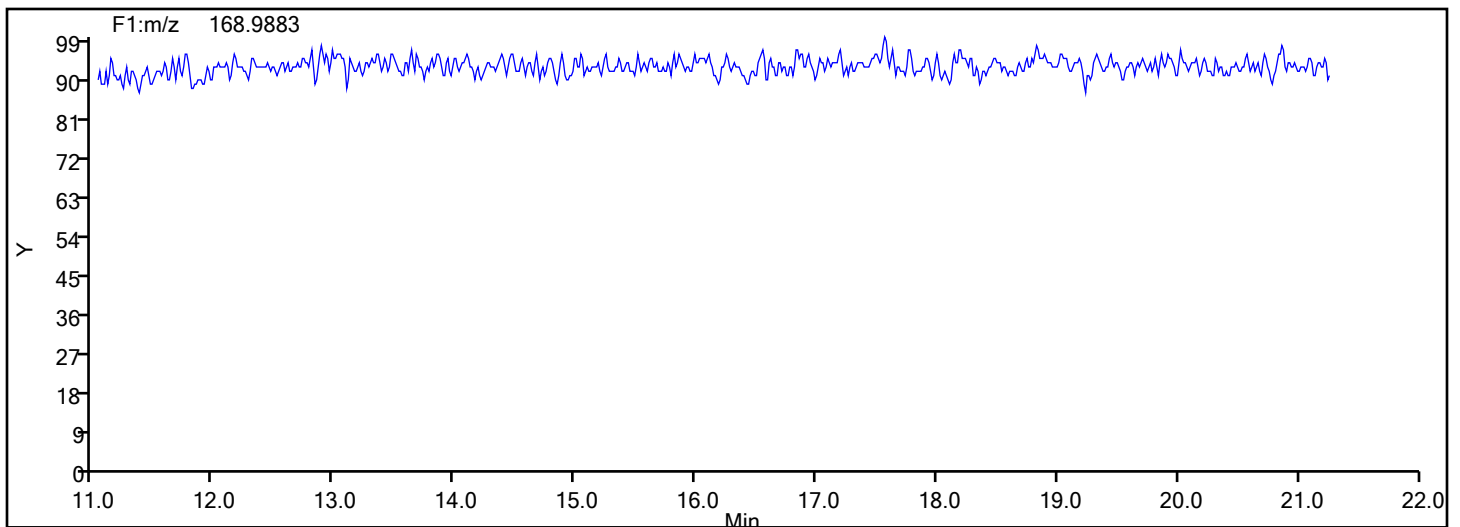
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

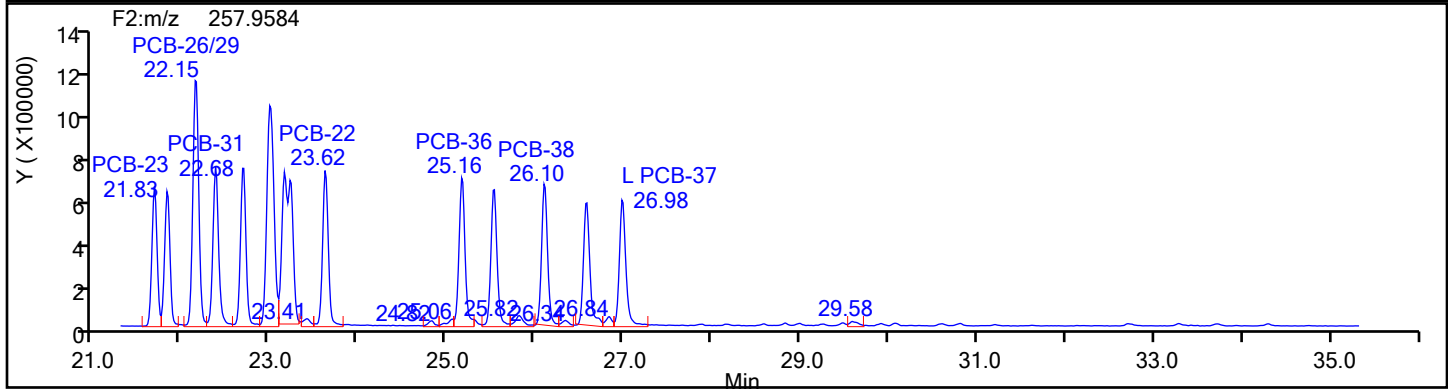
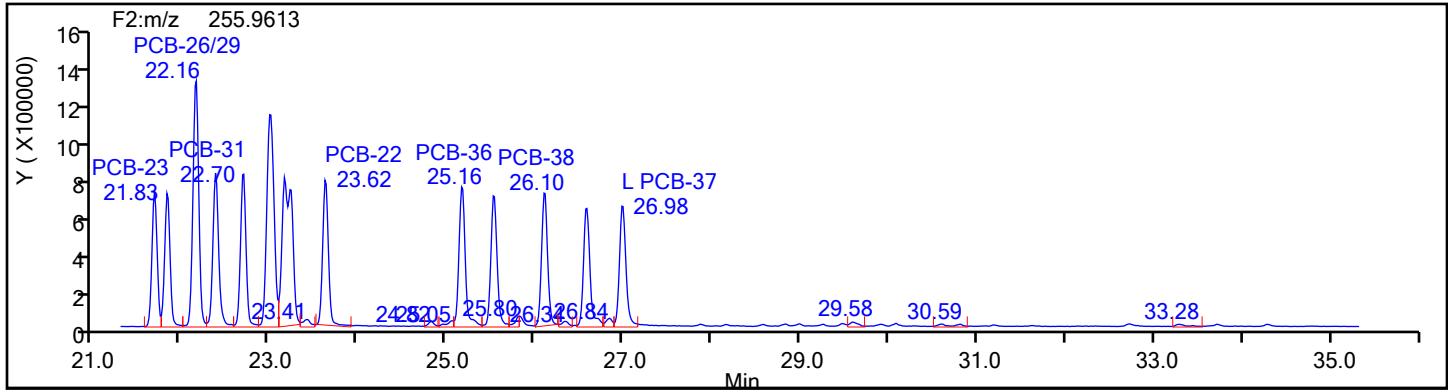
Worklist#: 88205

Sample Line#: 2

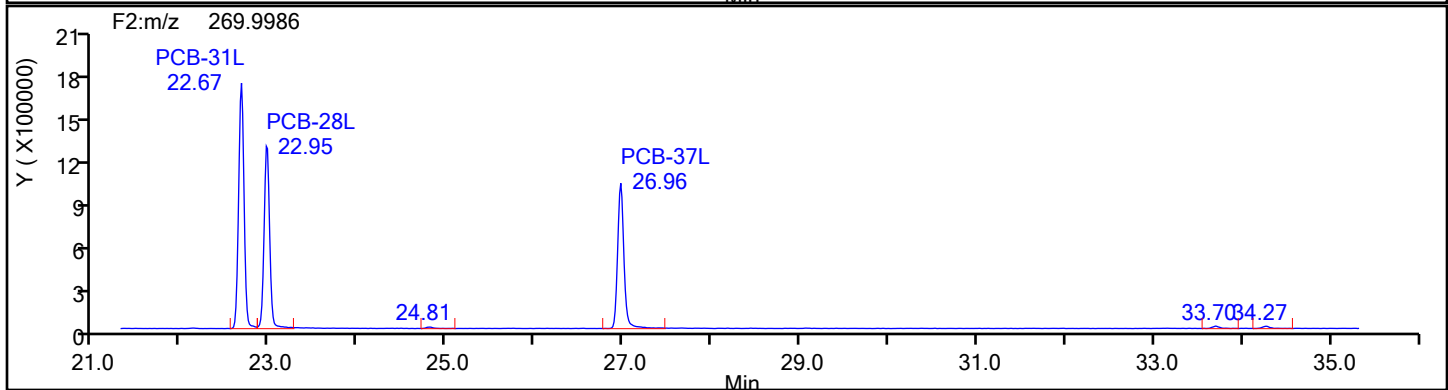
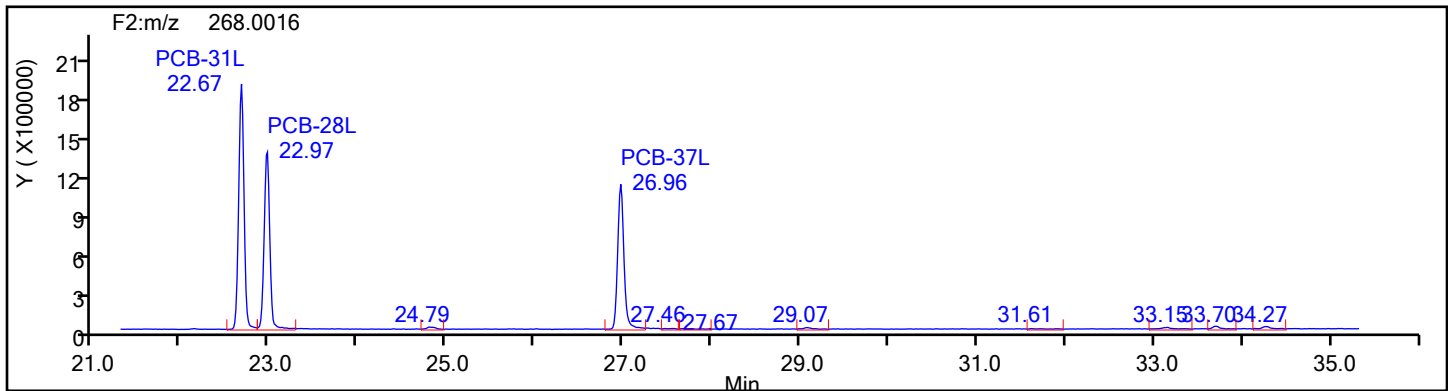
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

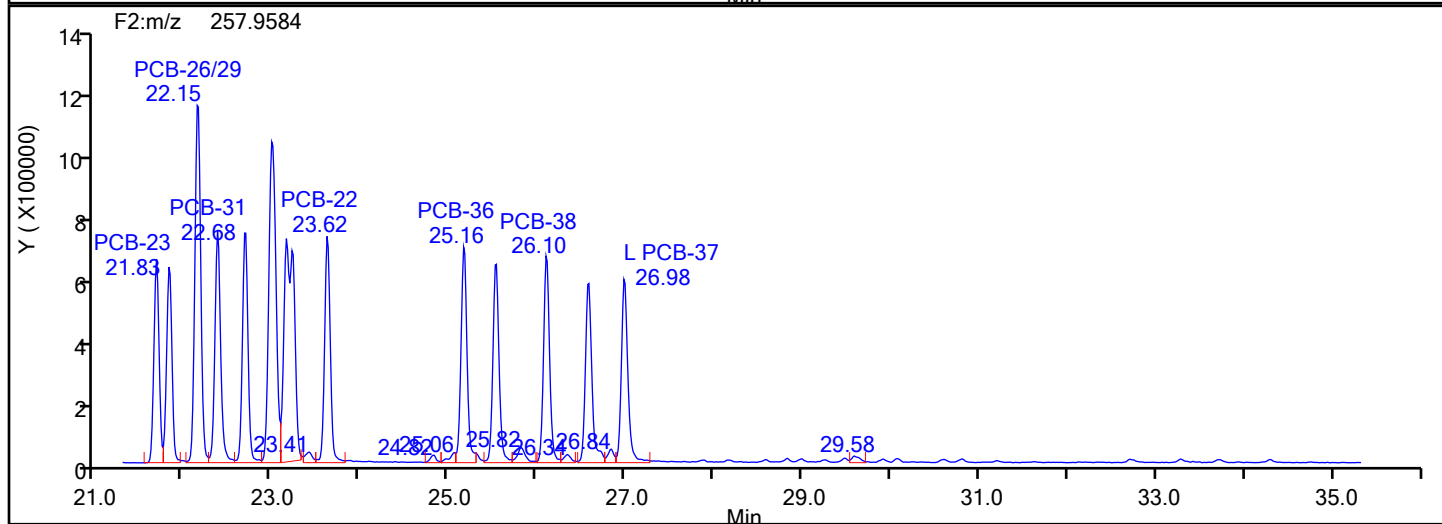
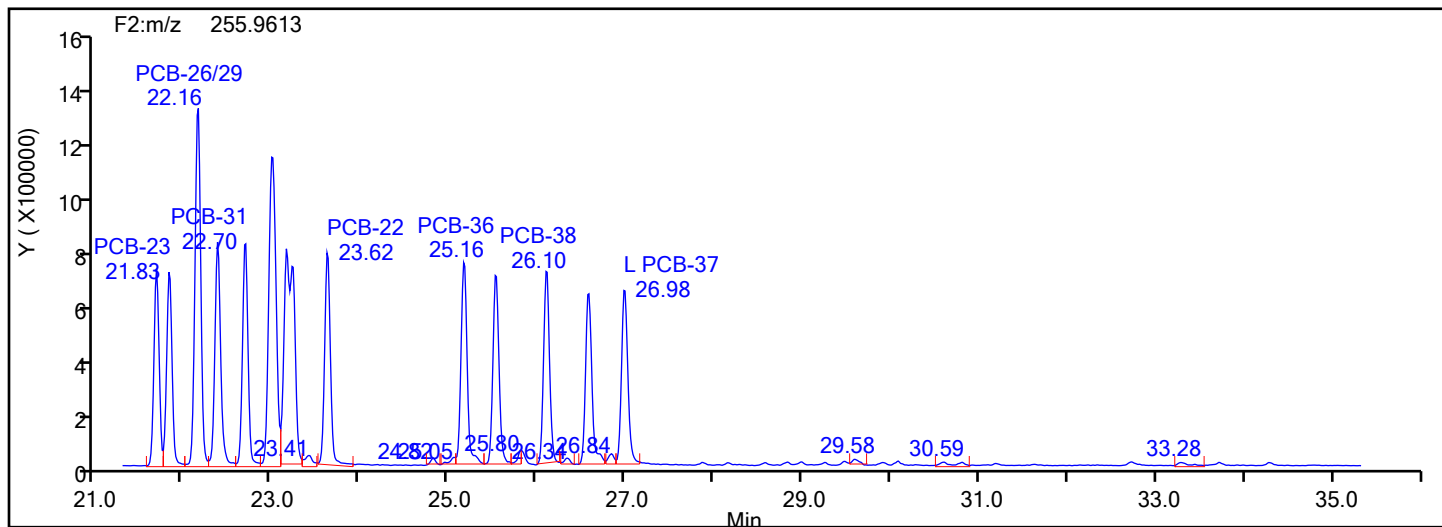
Worklist#: 88205

Sample Line#: 2

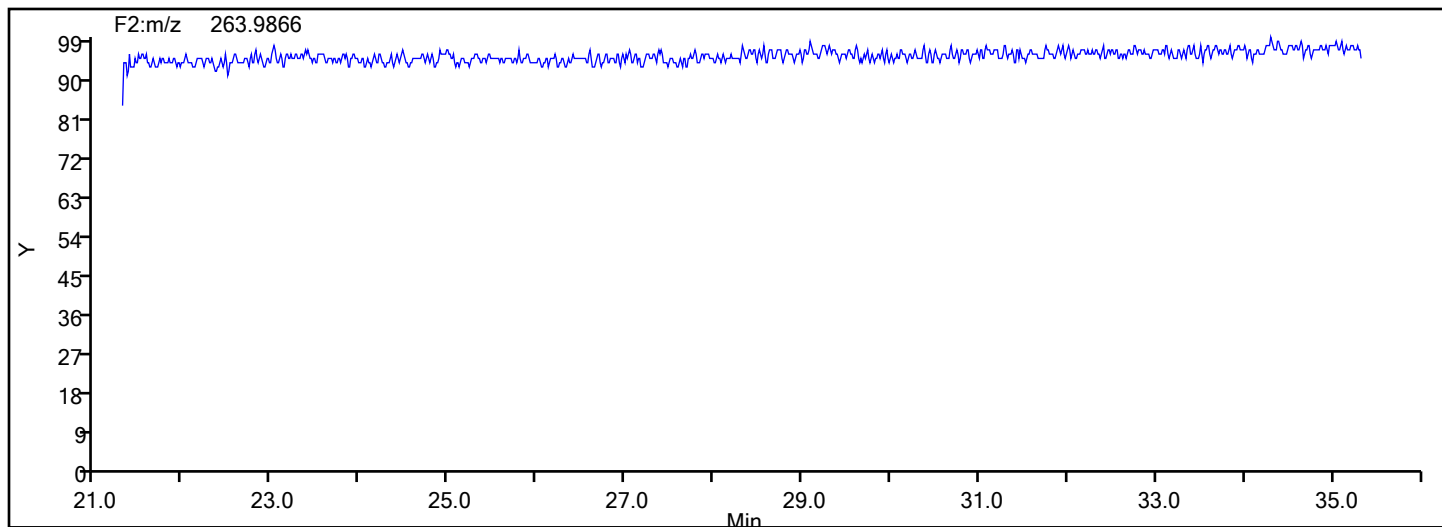
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

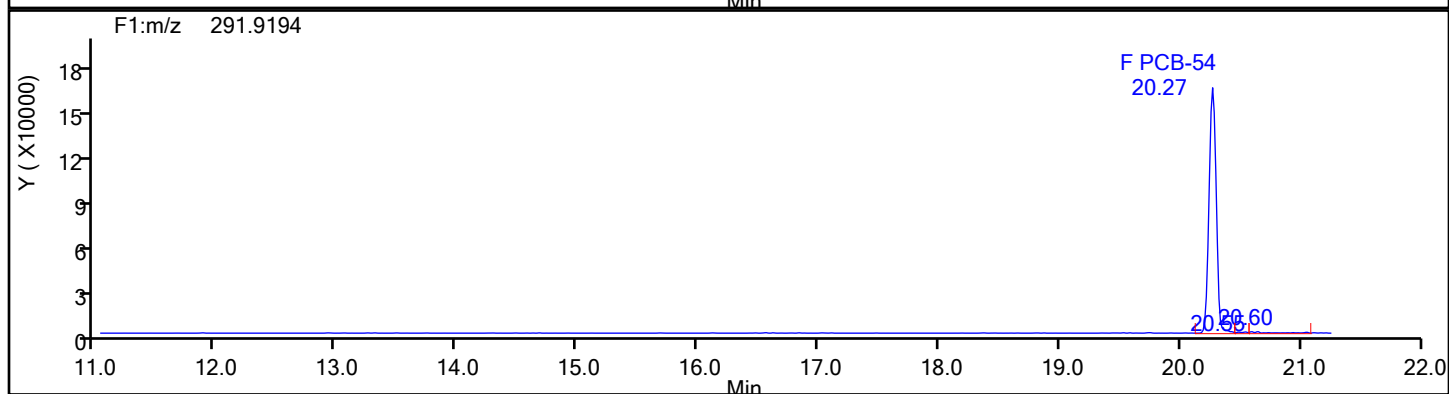
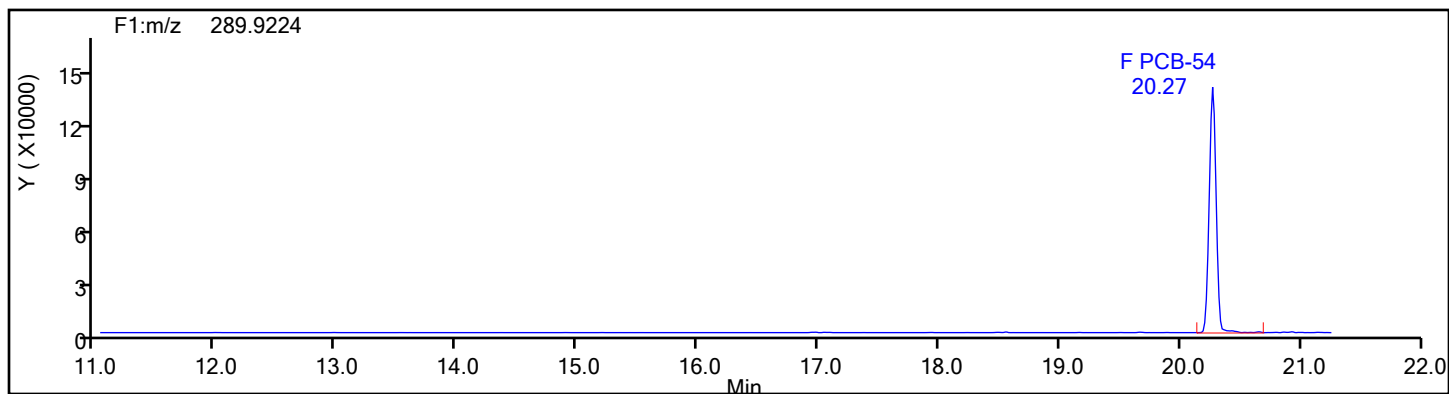
Worklist#: 88205

Sample Line#: 2

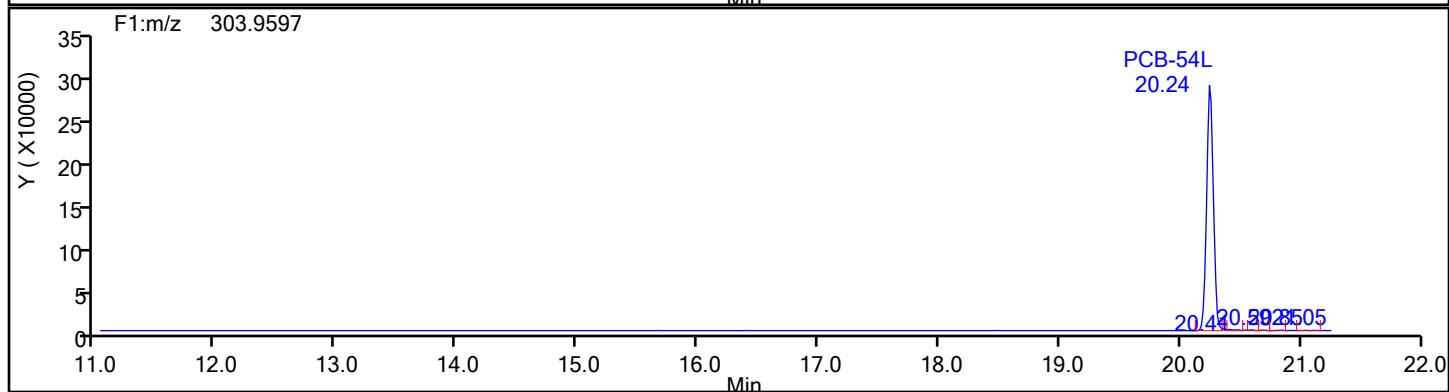
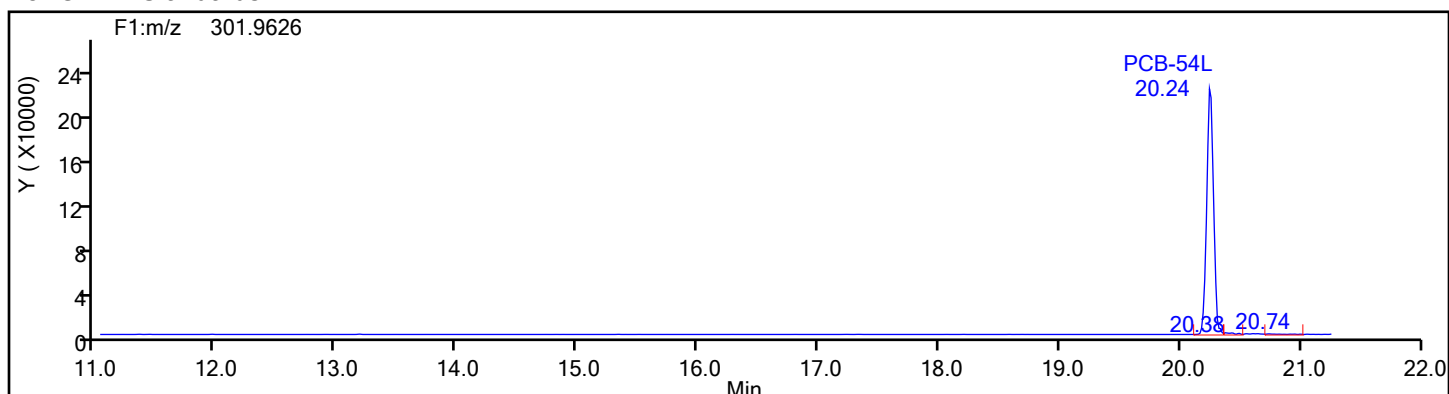
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1

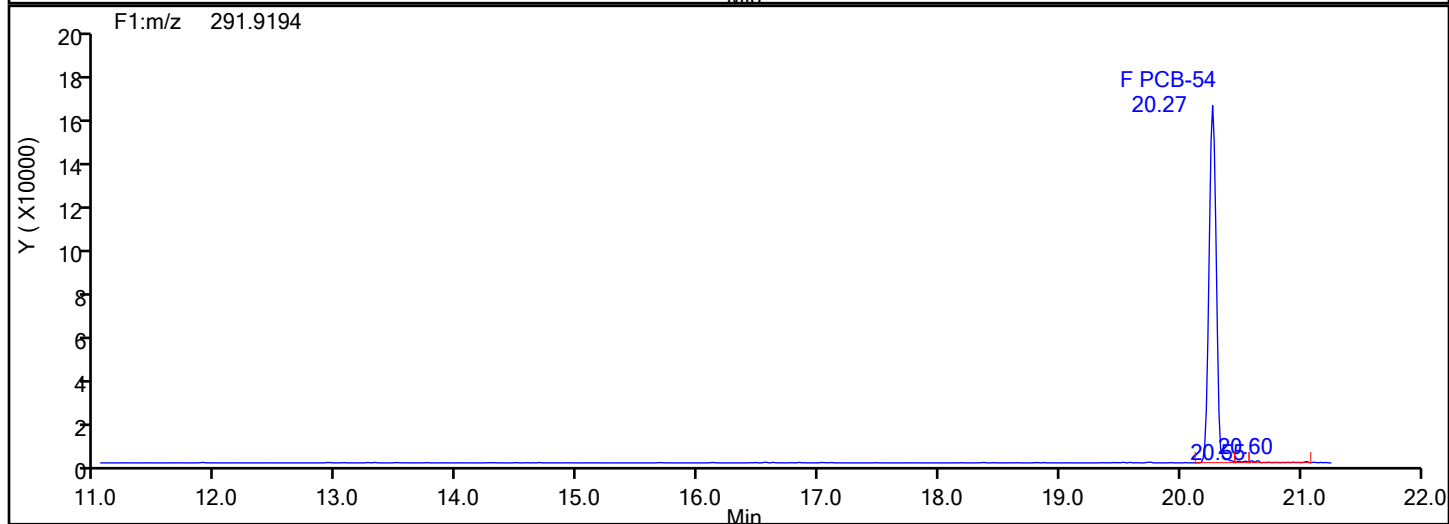
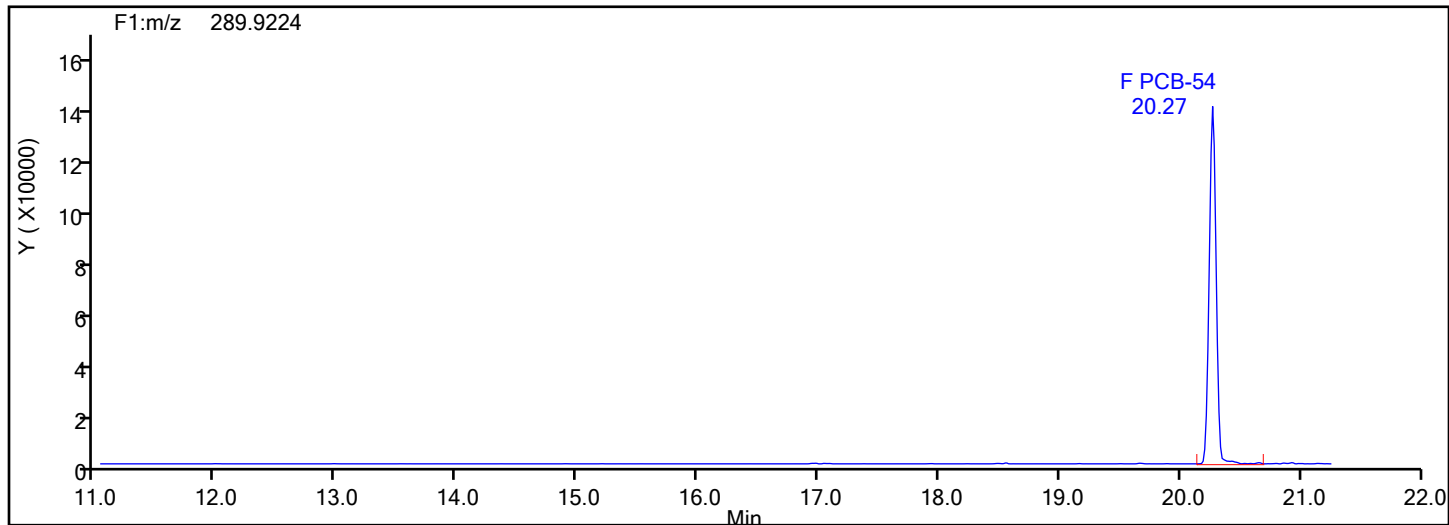


TePCB F1 Standards

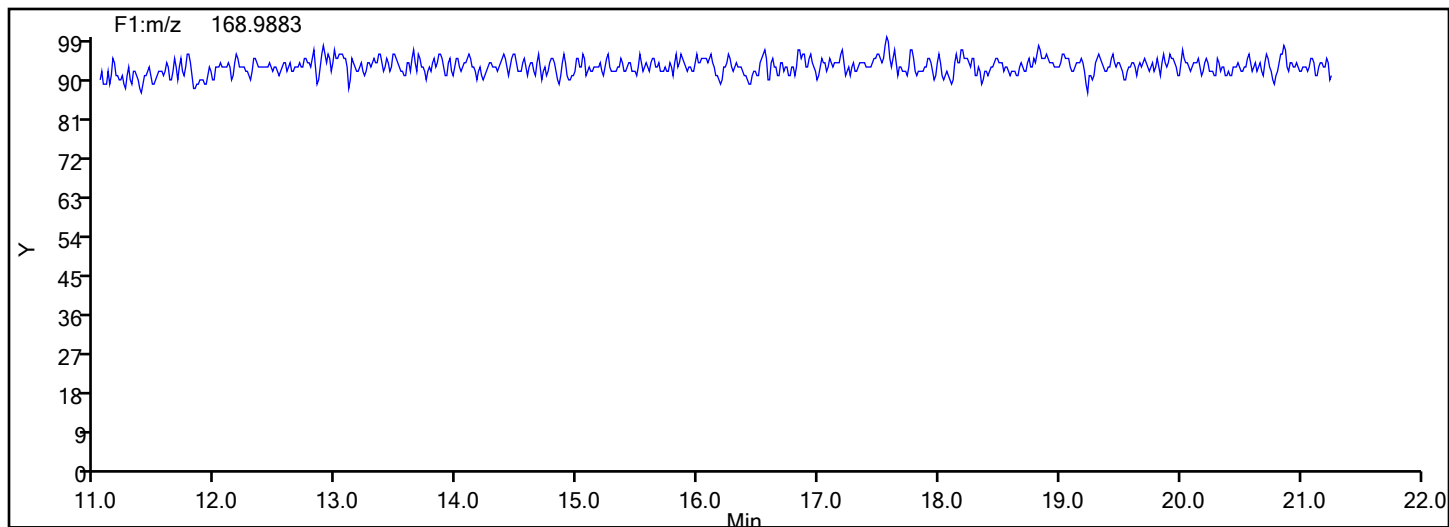


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d  
Injection Date: 27-Jun-2024 23:11:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 2  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
TePCB F1



## TePCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

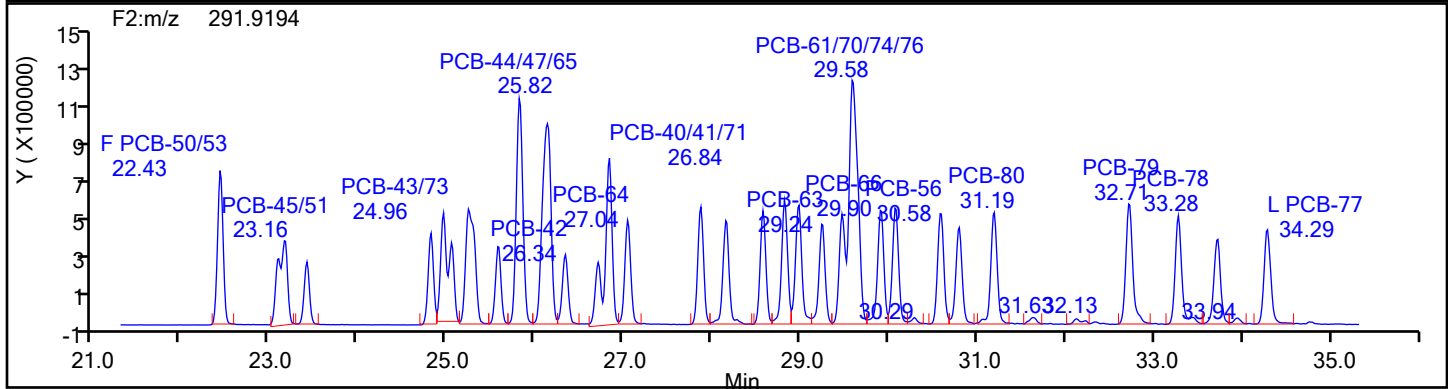
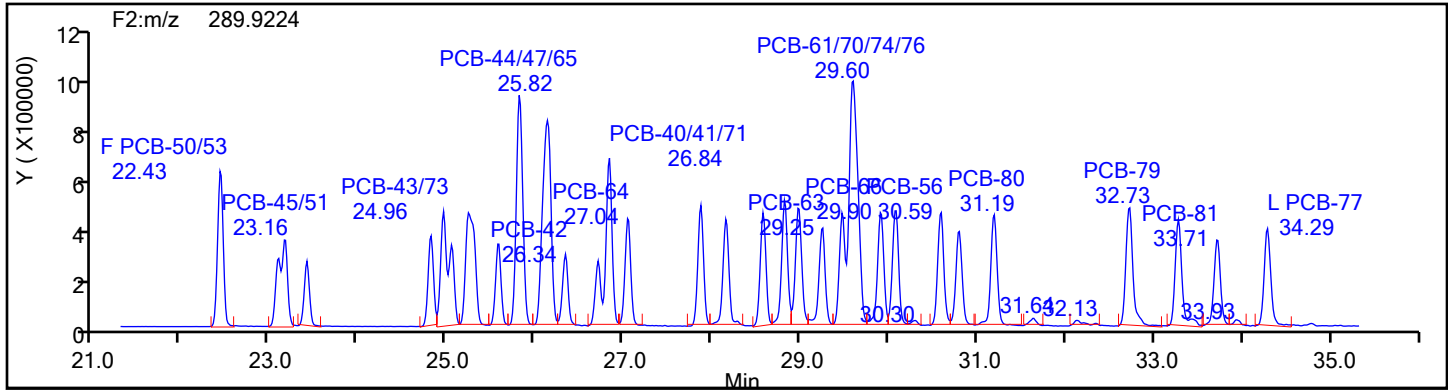
Worklist#: 88205

Sample Line#: 2

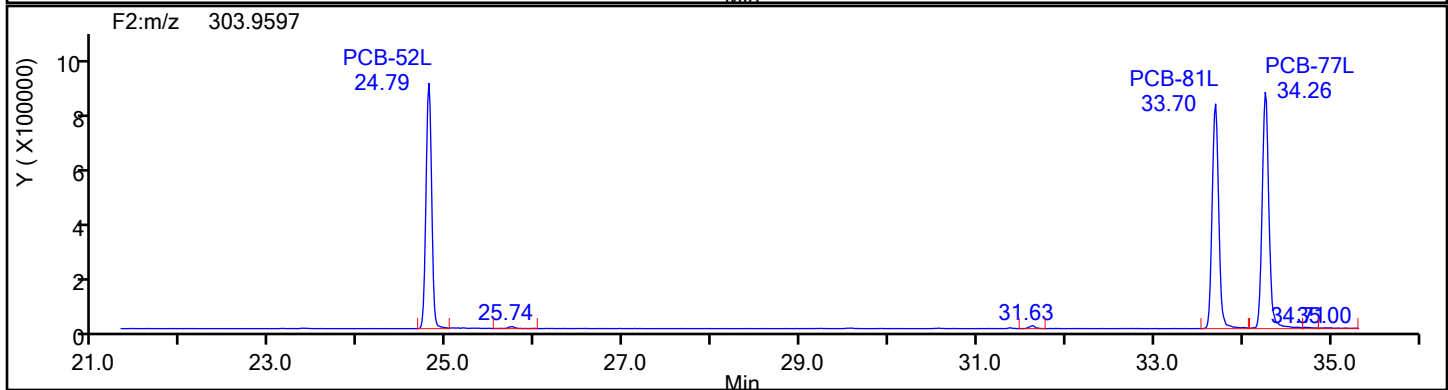
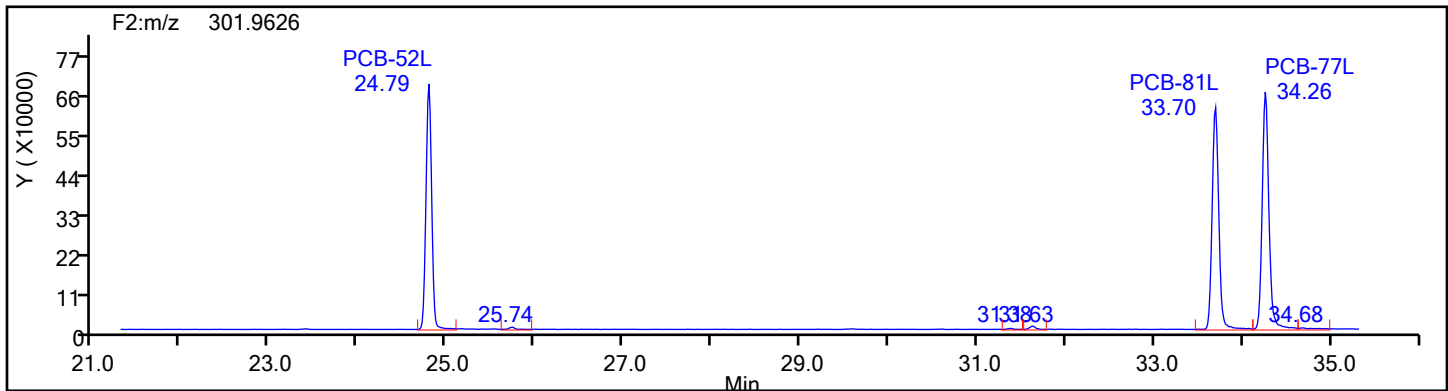
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

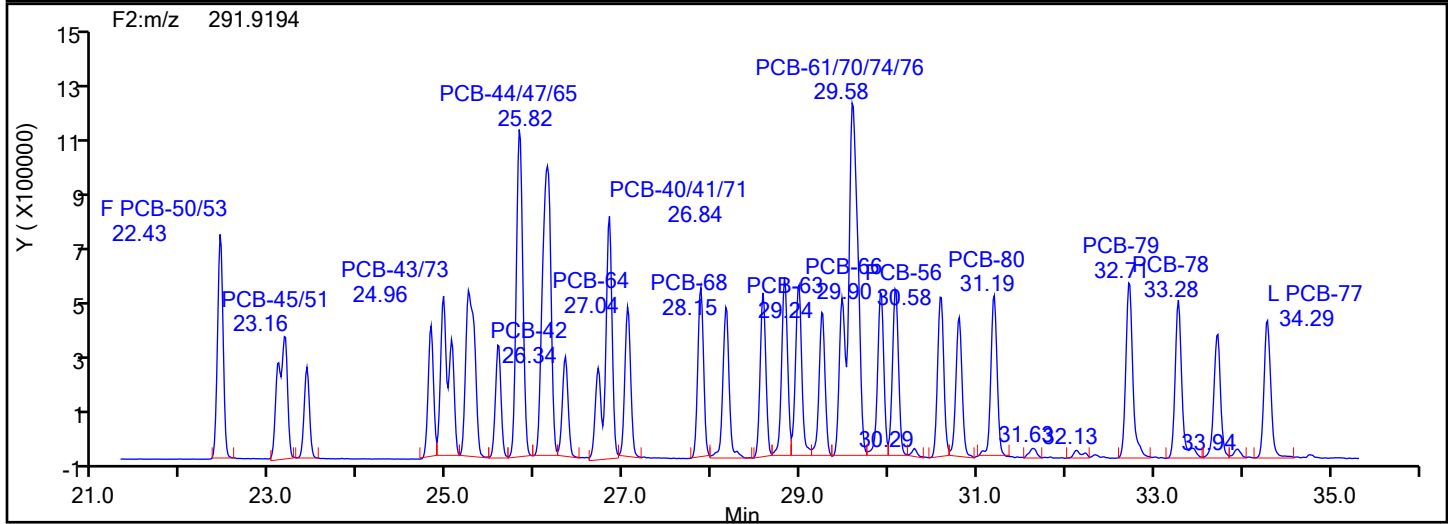
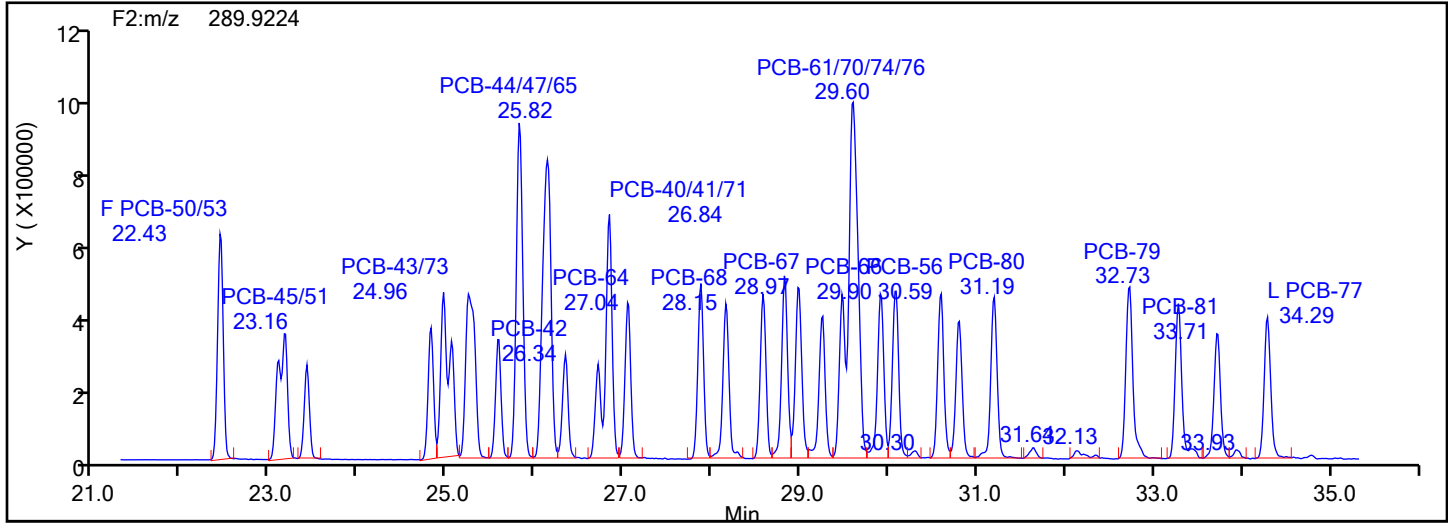
Worklist#: 88205

Sample Line#: 2

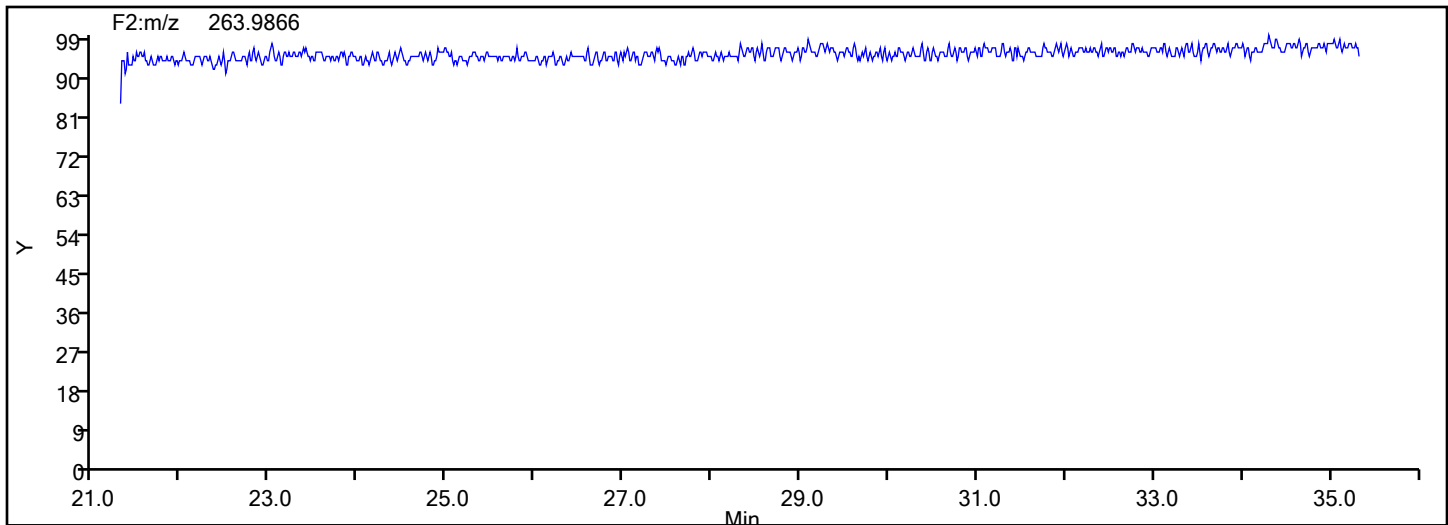
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

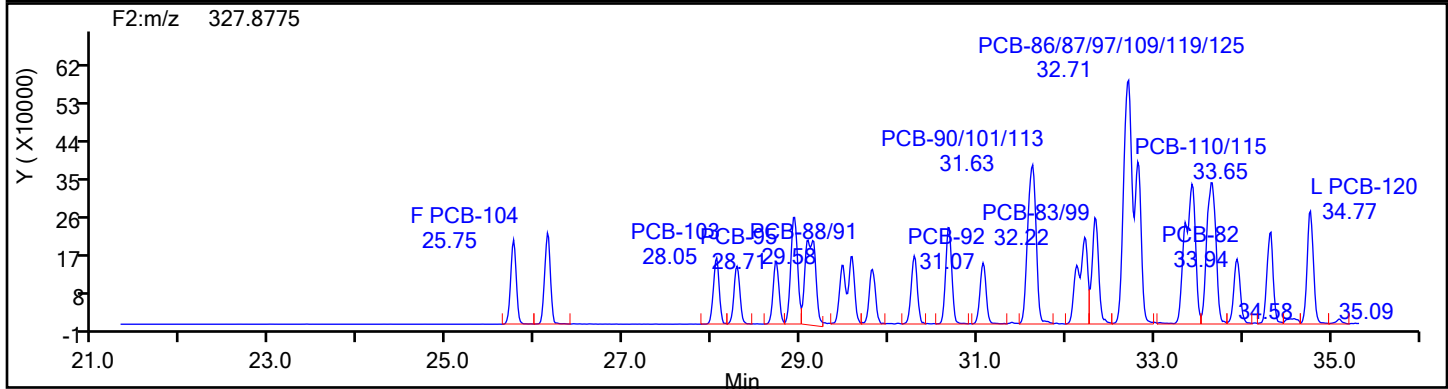
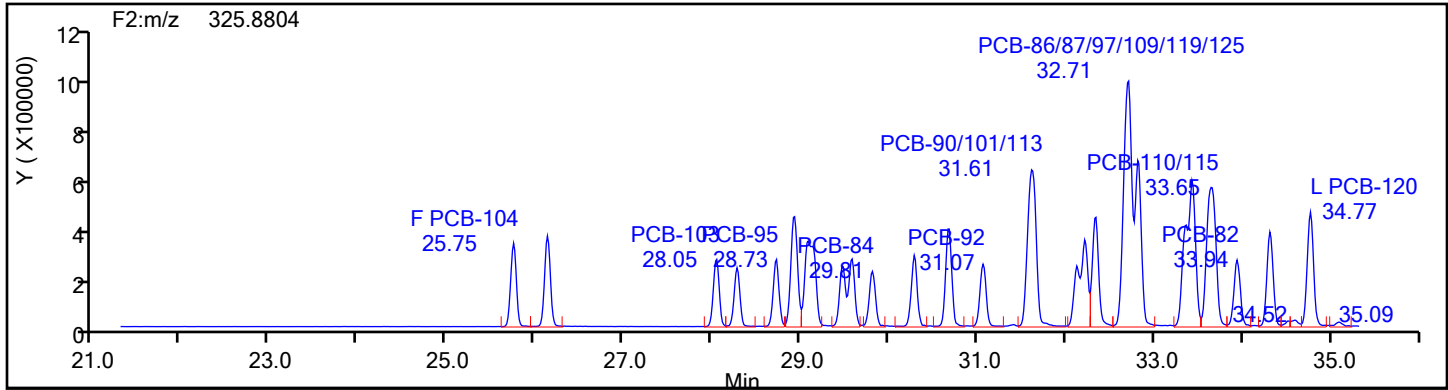
Worklist#: 88205

Sample Line#: 2

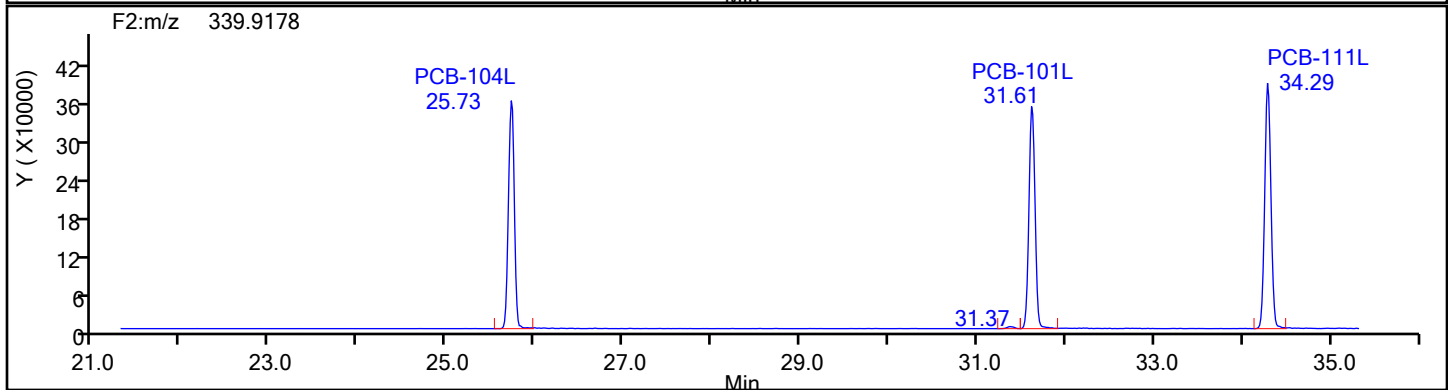
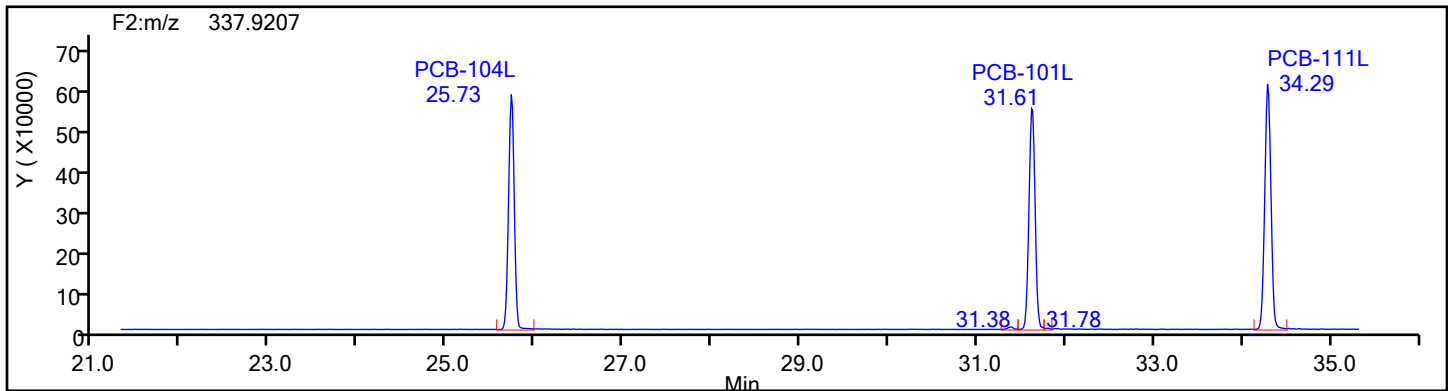
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

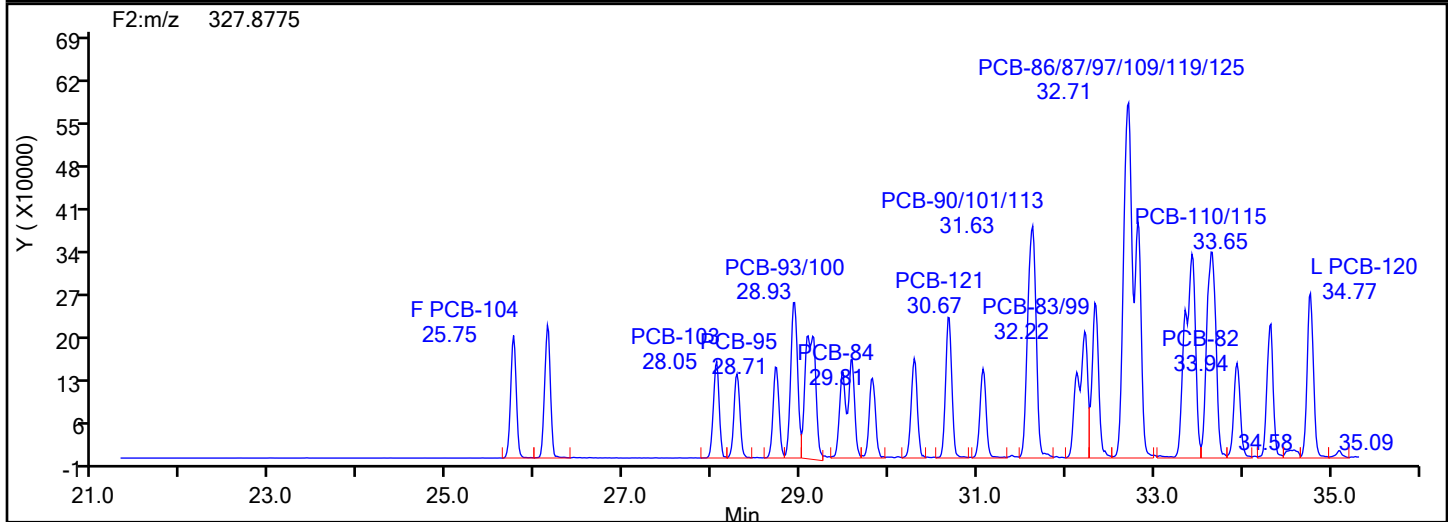
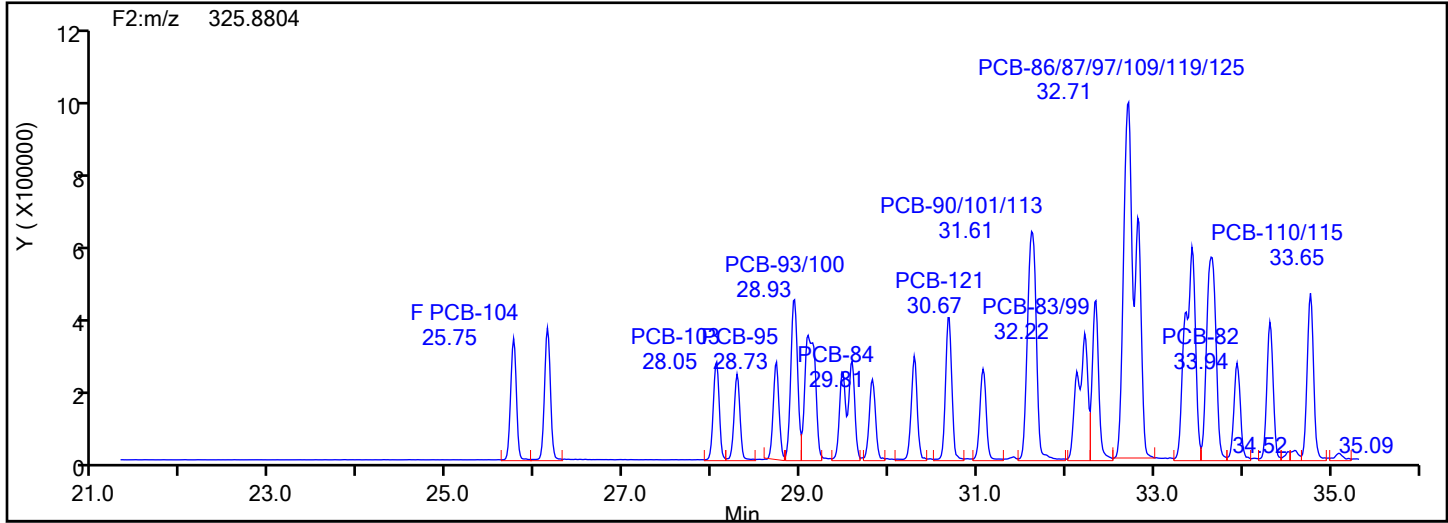
Worklist#: 88205

Sample Line#: 2

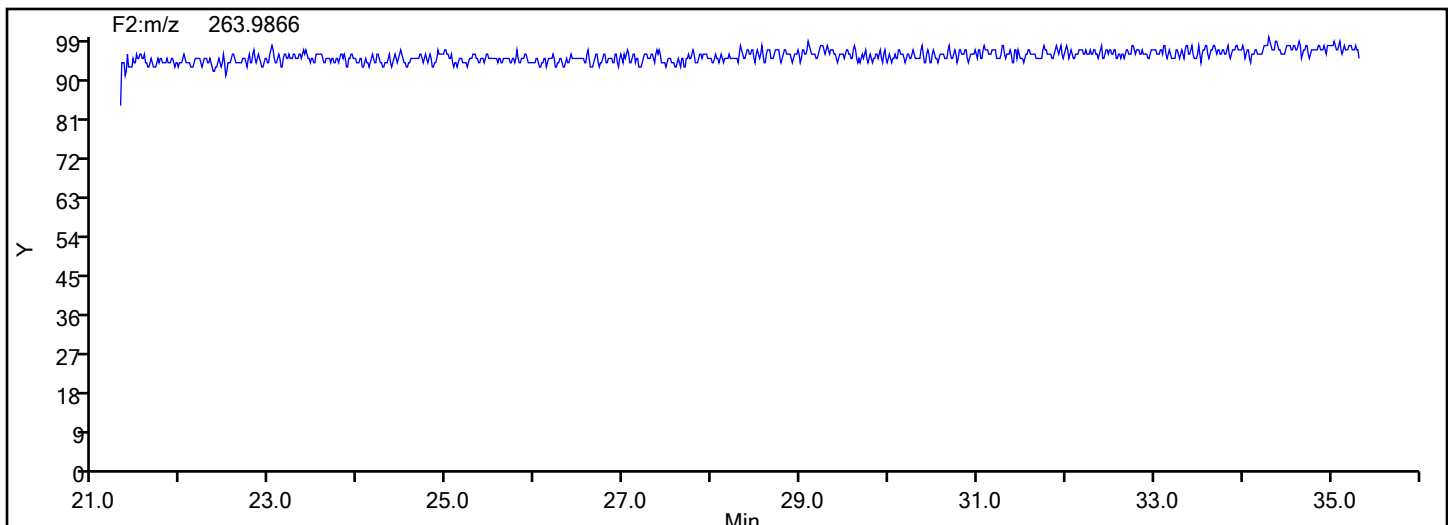
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

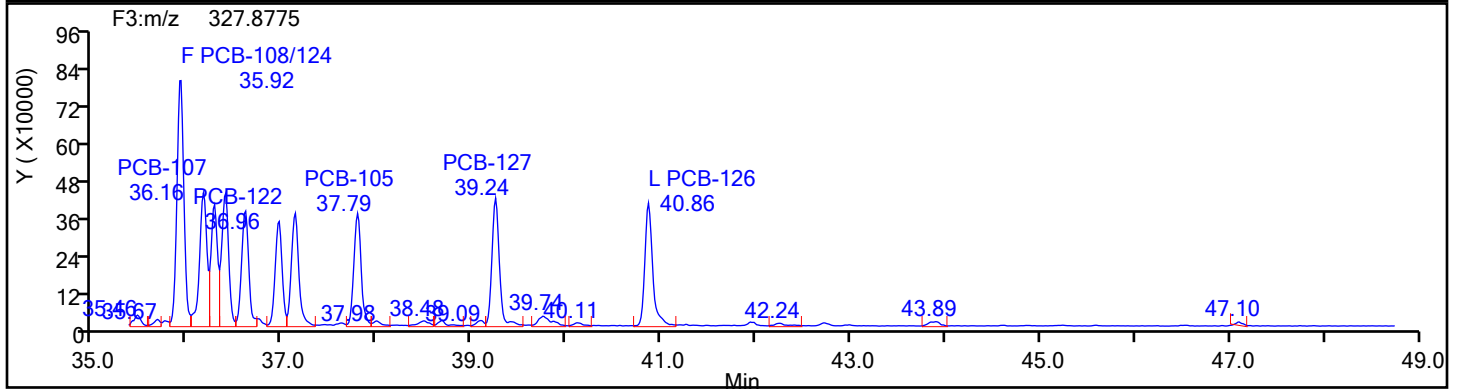
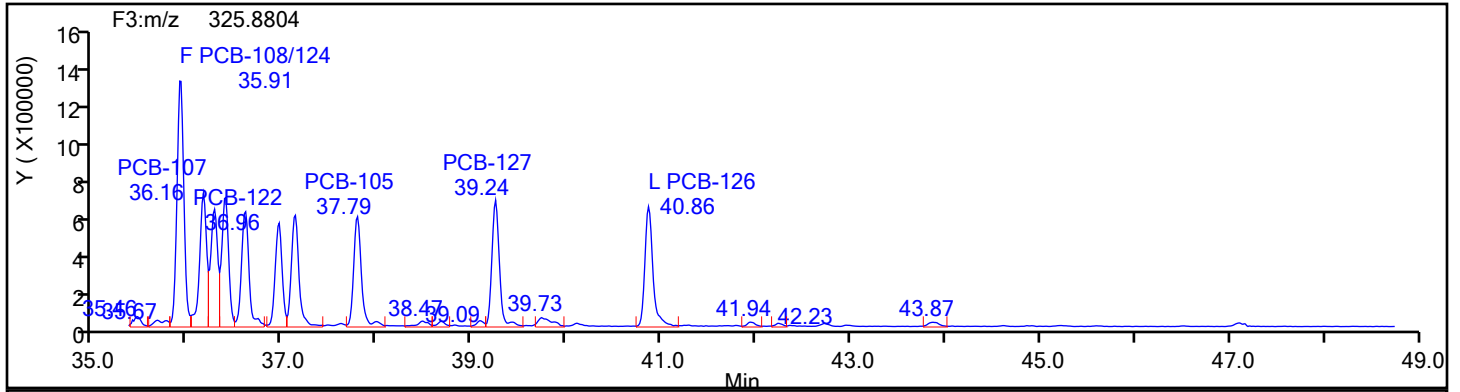
Worklist#: 88205

Sample Line#: 2

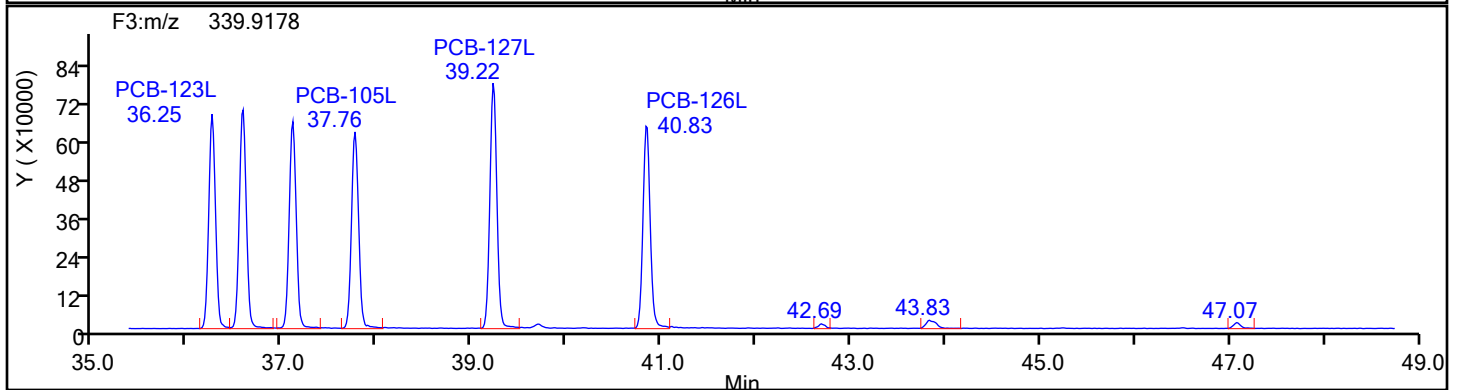
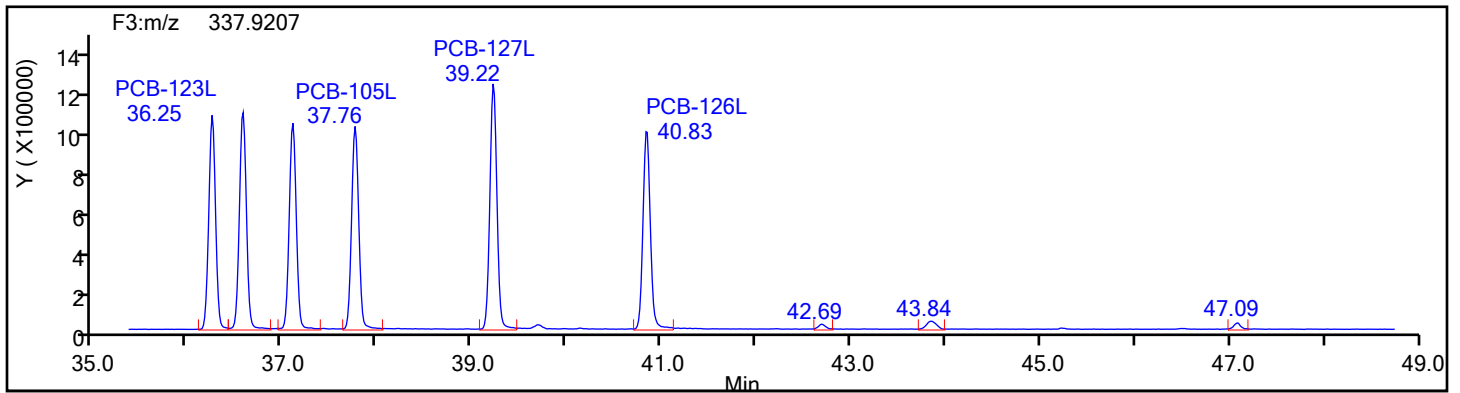
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

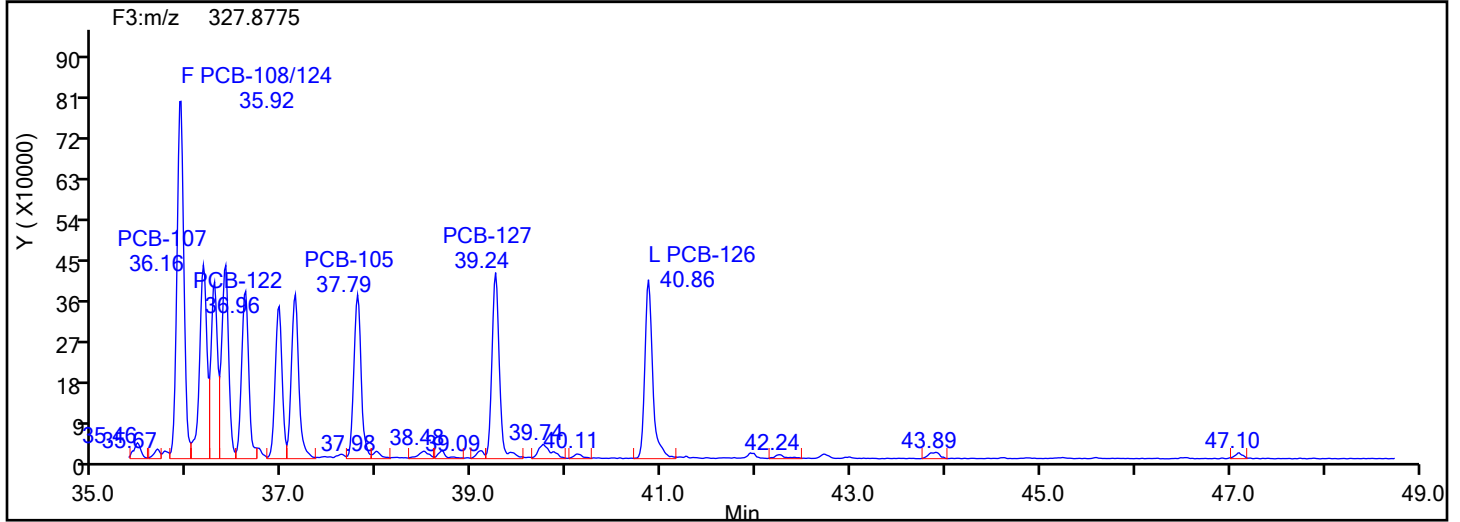
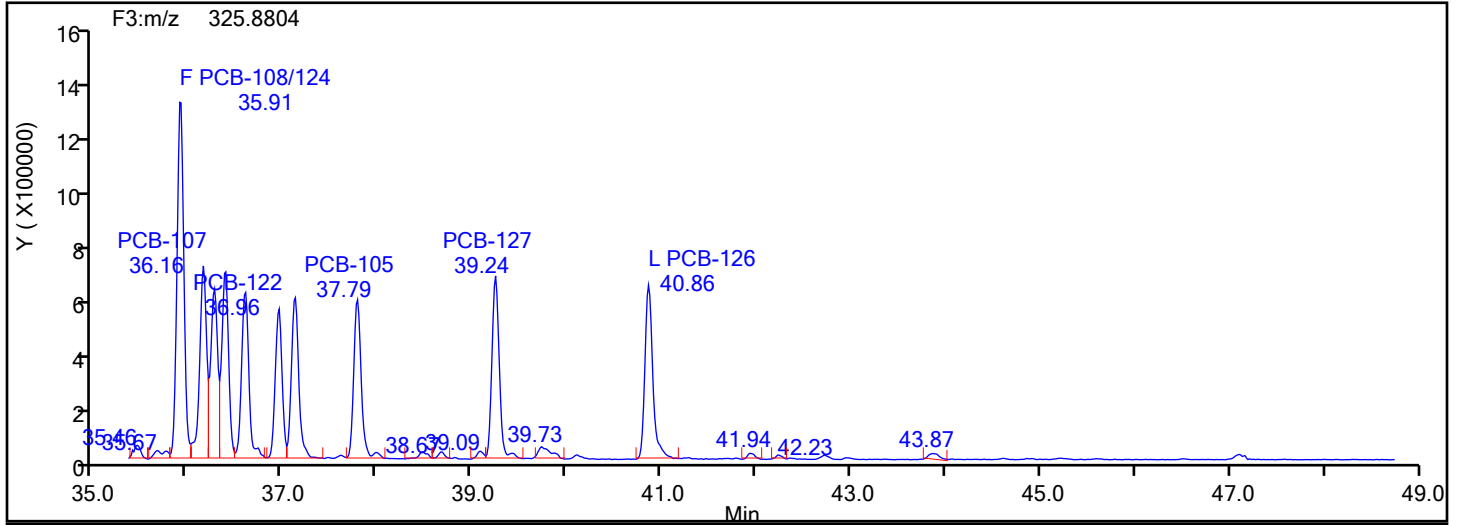
Worklist#: 88205

Sample Line#: 2

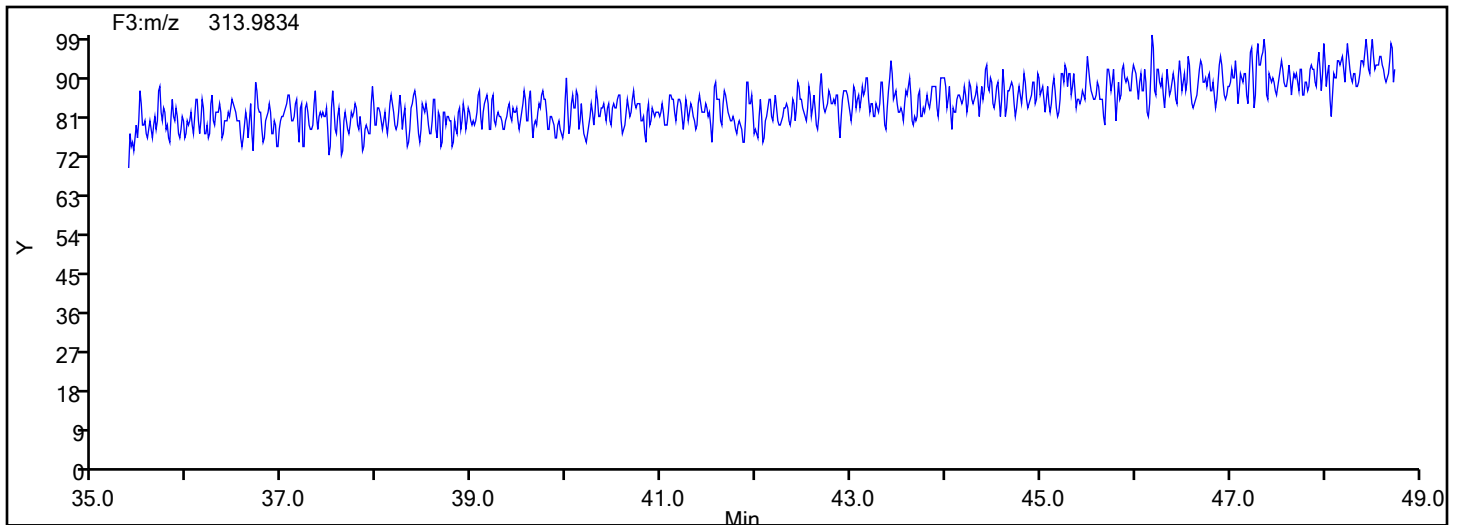
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



## PePCB F3 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

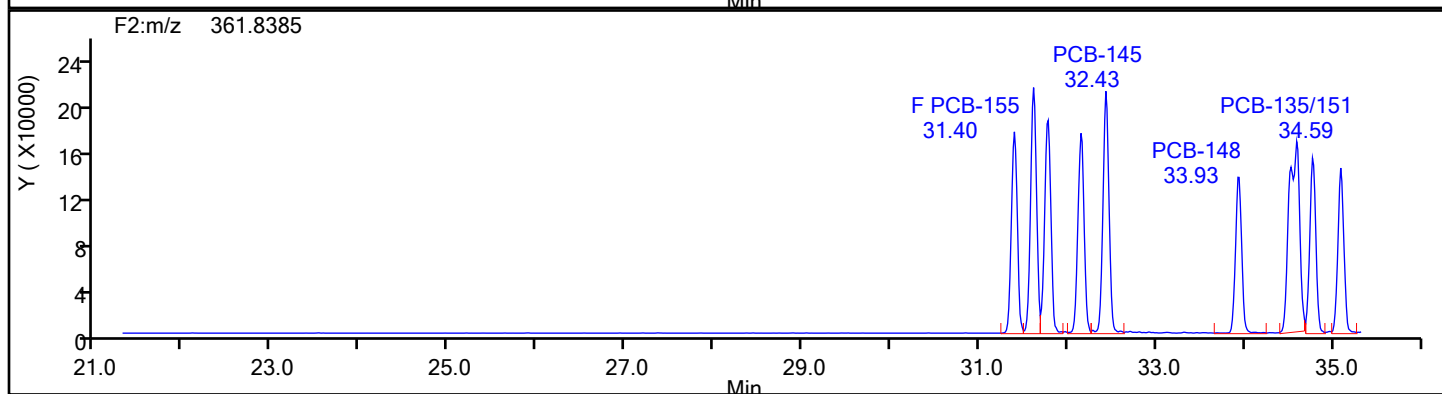
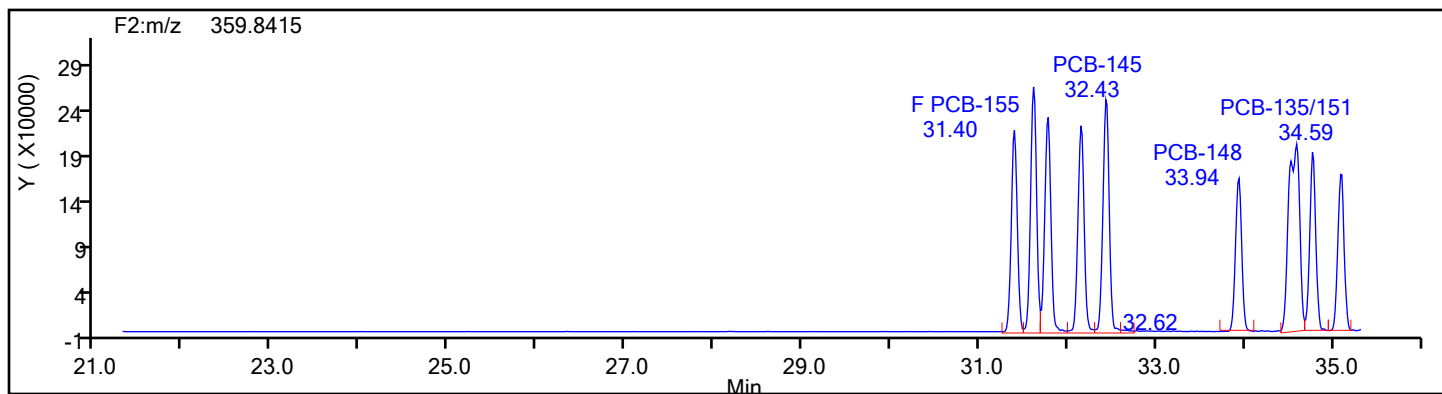
Worklist#: 88205

Sample Line#: 2

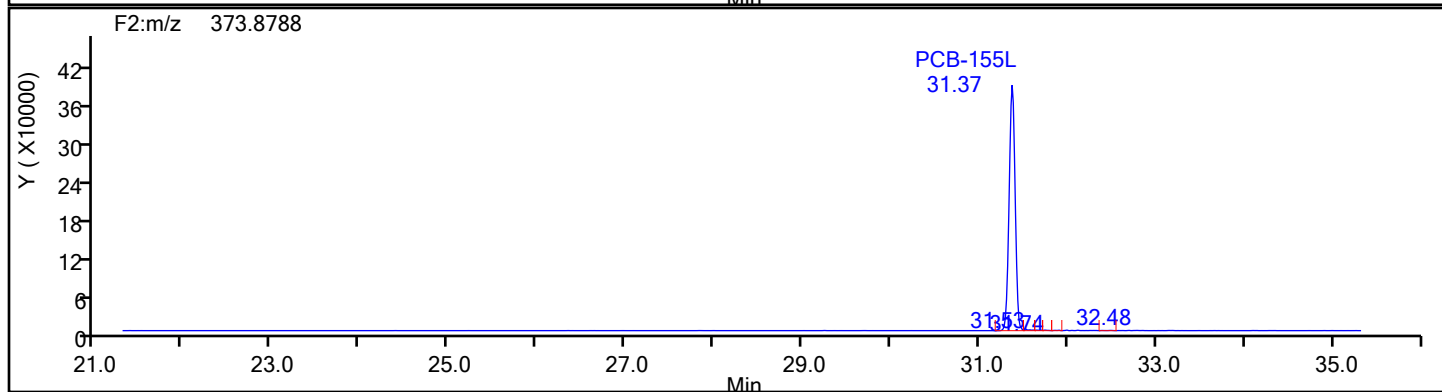
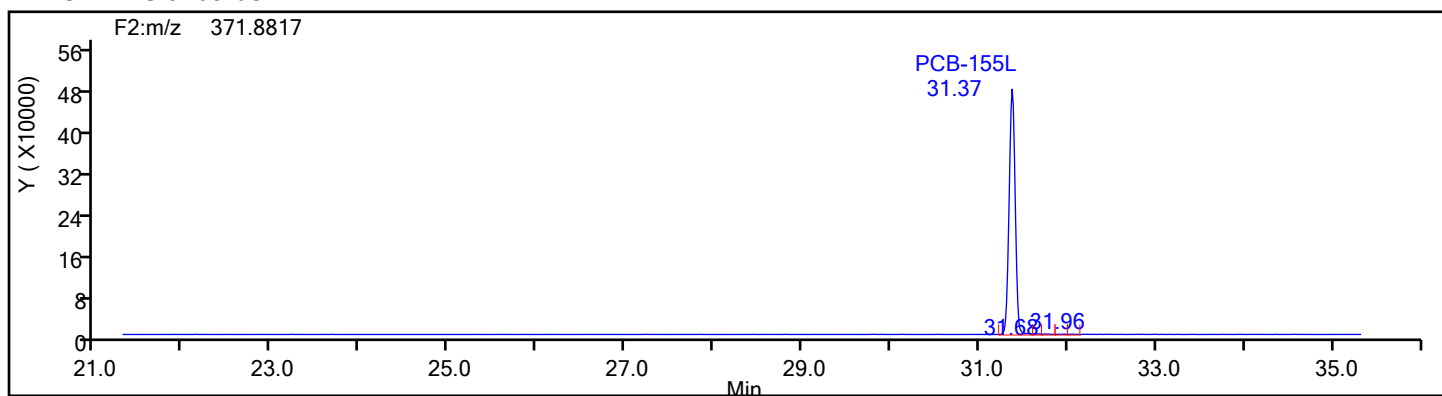
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

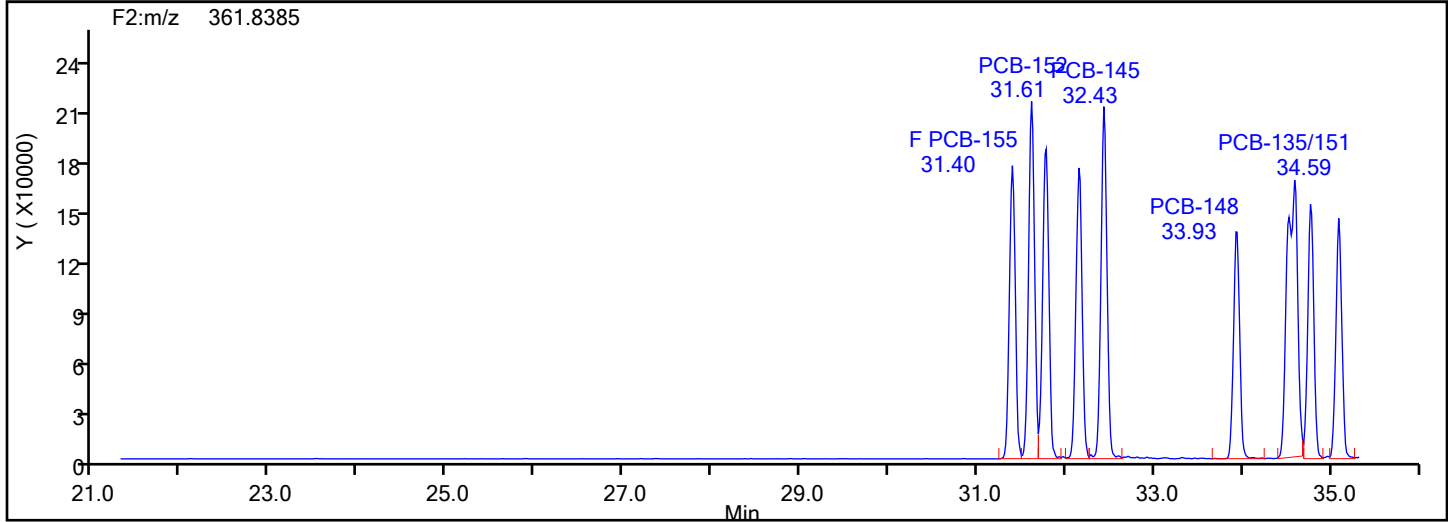
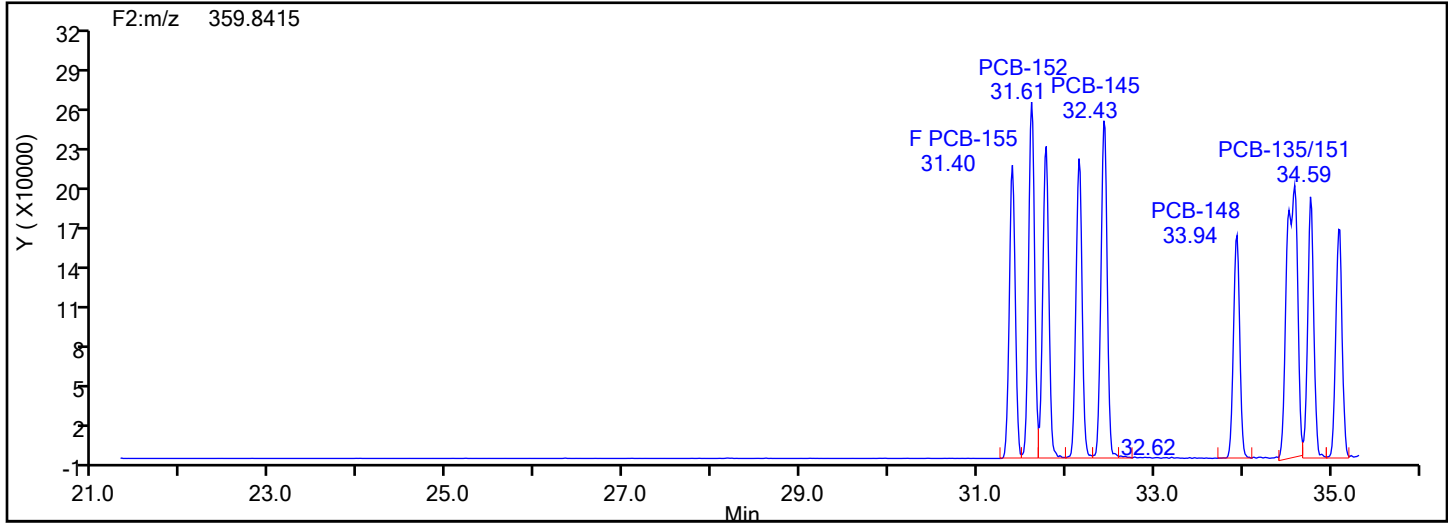


HxPCB F2 Standards

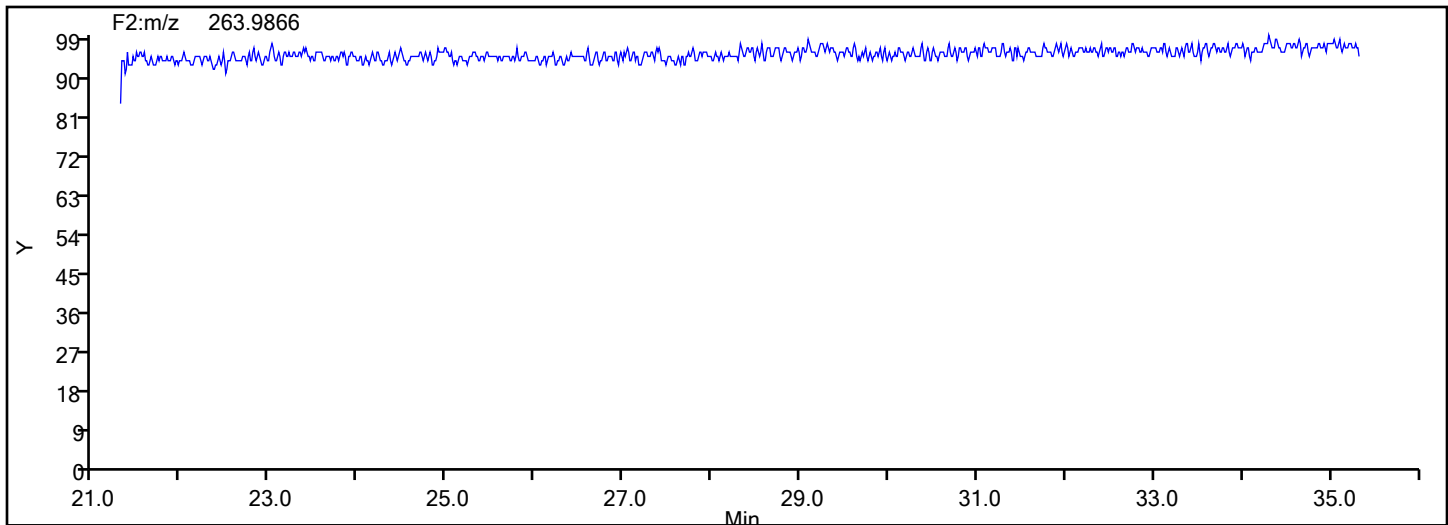


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d  
Injection Date: 27-Jun-2024 23:11:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 2  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

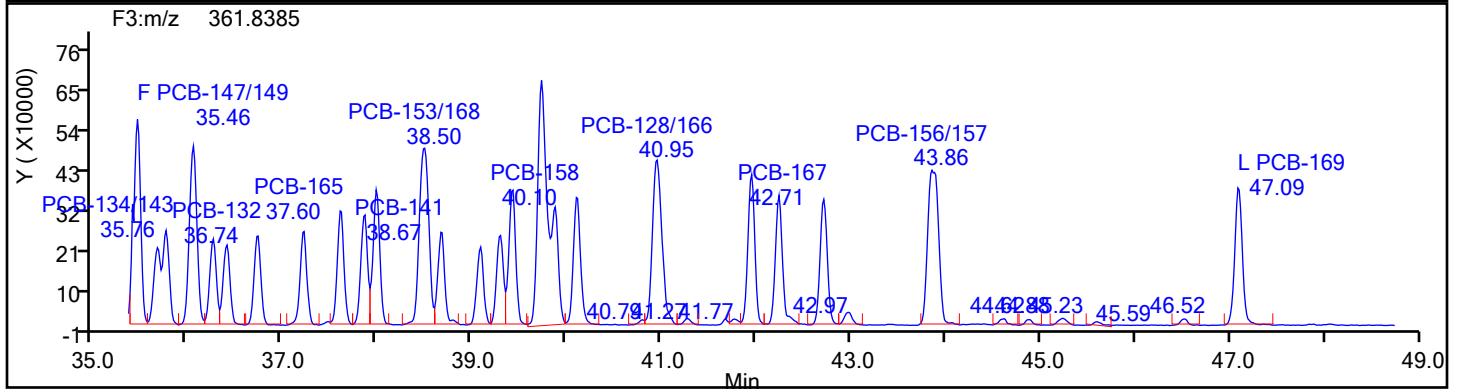
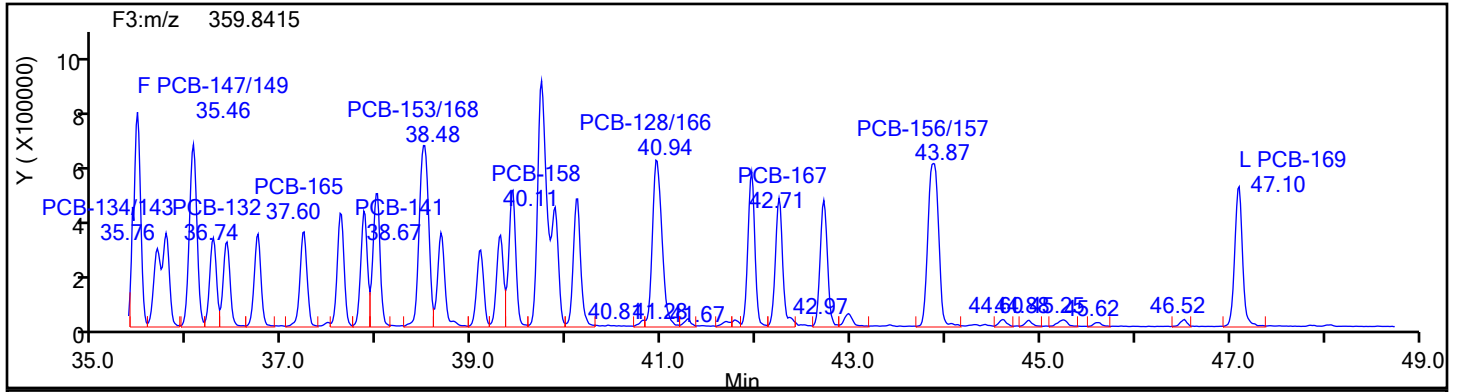
Worklist#: 88205

Sample Line#: 2

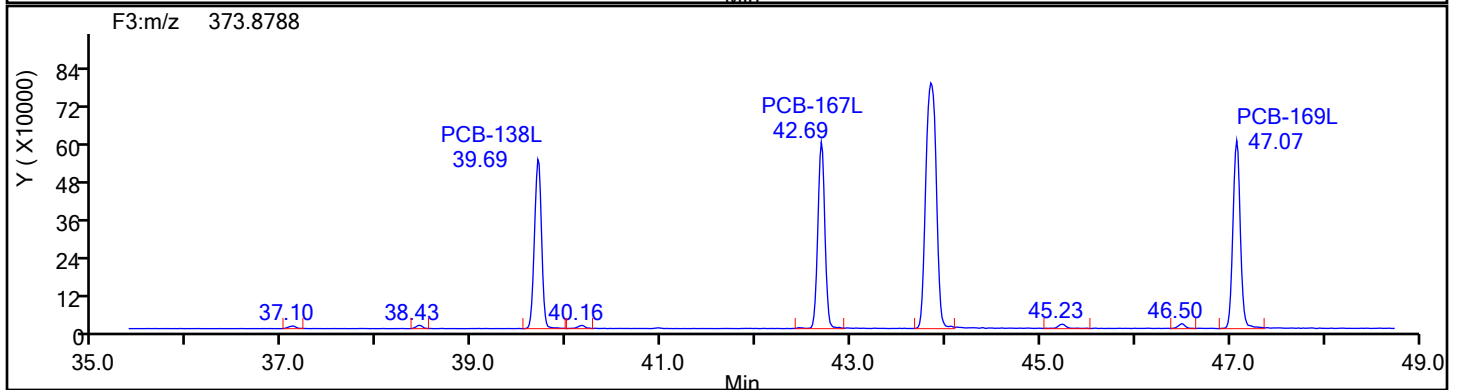
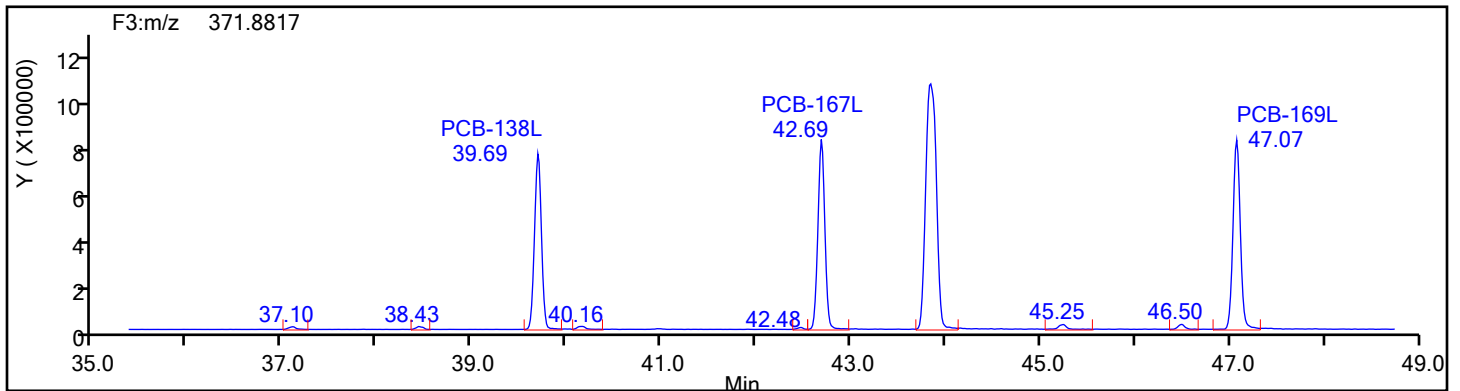
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



HxPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

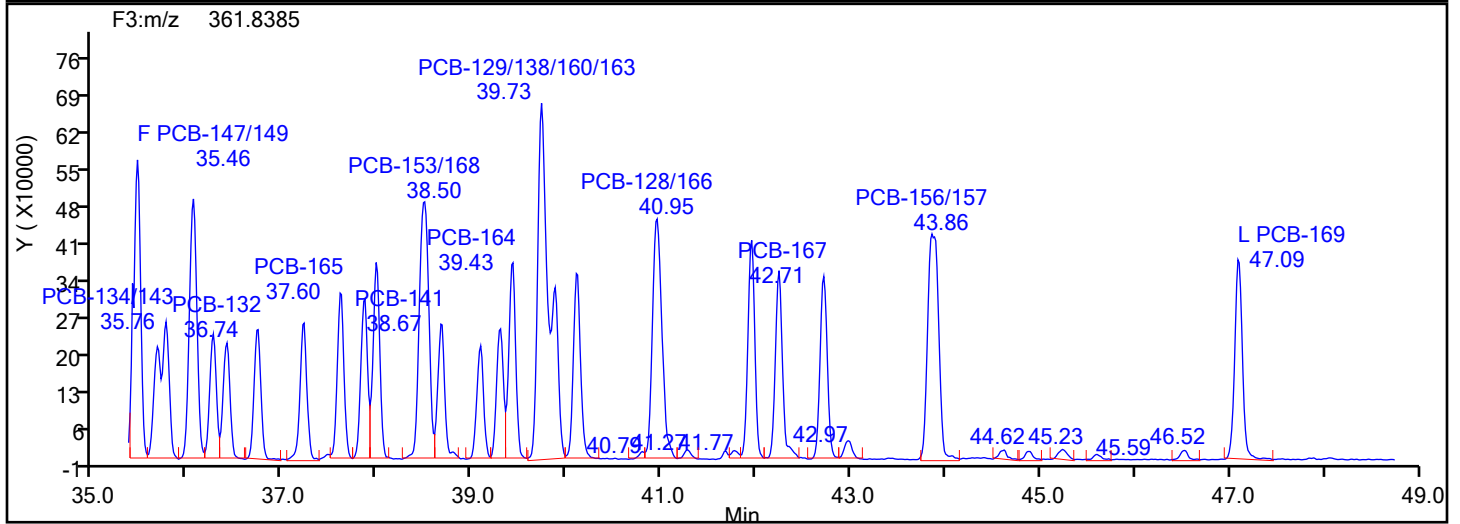
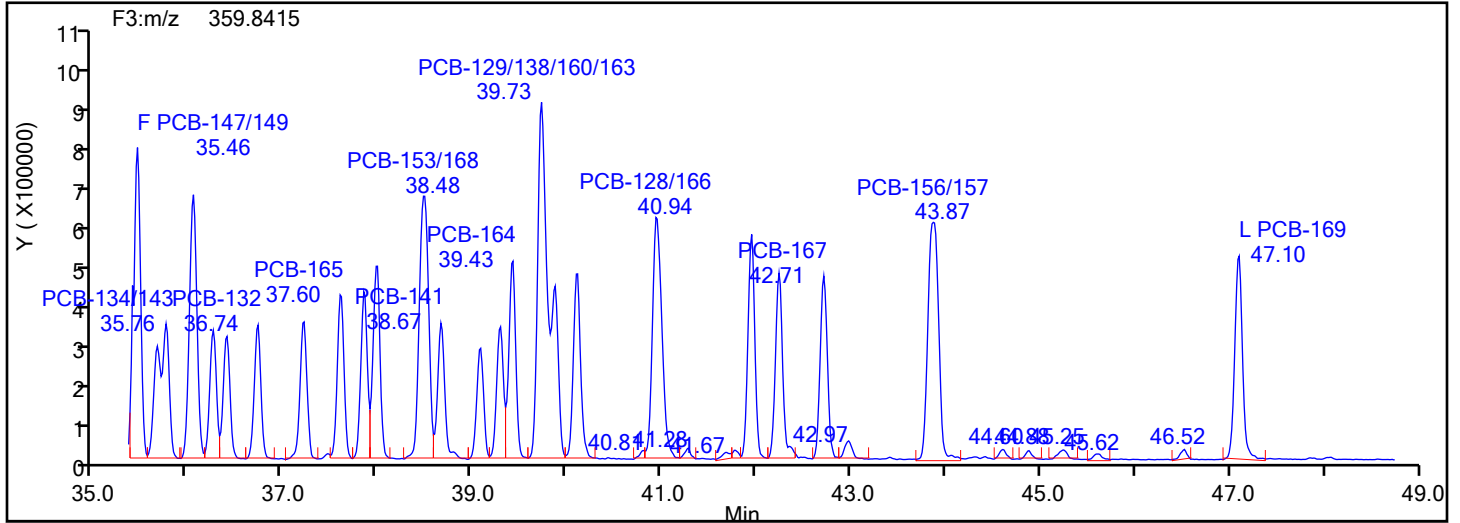
Worklist#: 88205

Sample Line#: 2

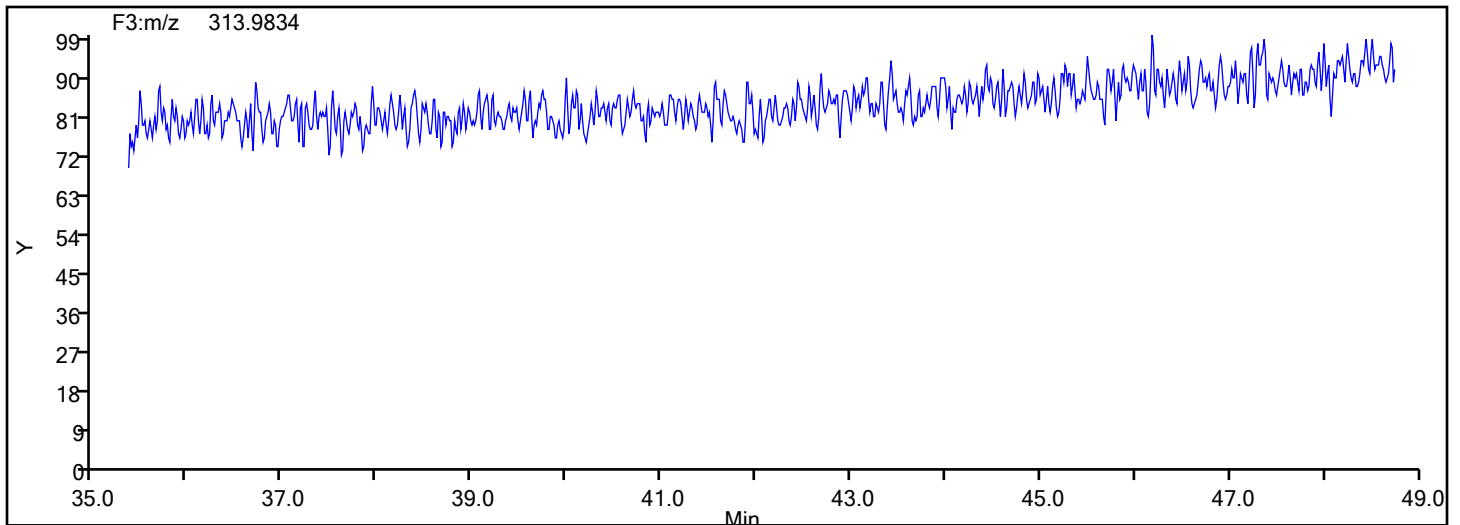
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Instrument ID: D2D

Lims ID: LCS 140-87624/19-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

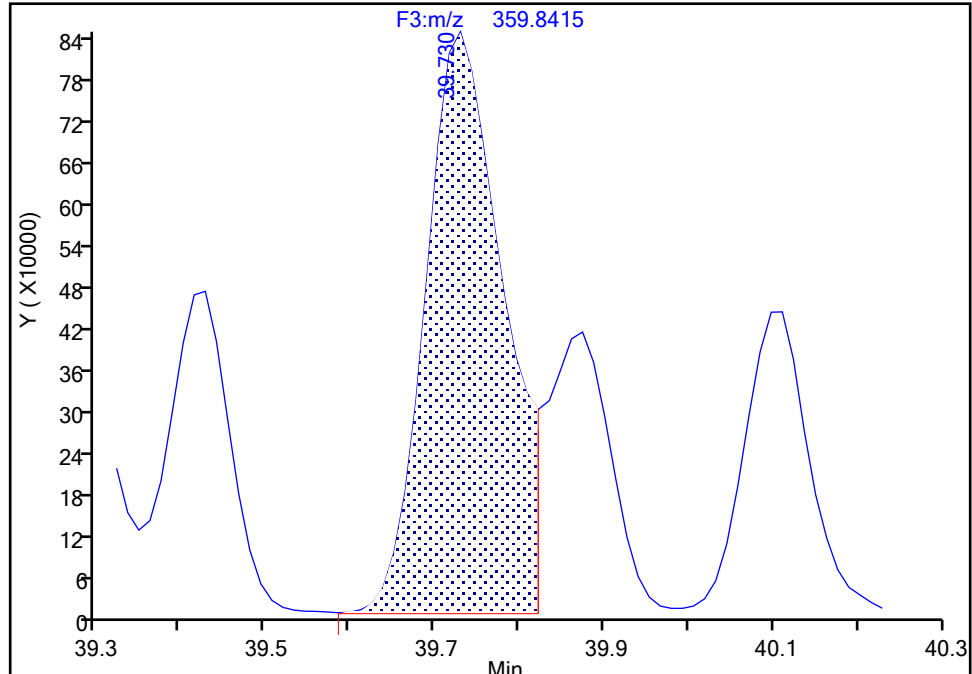
Detector F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

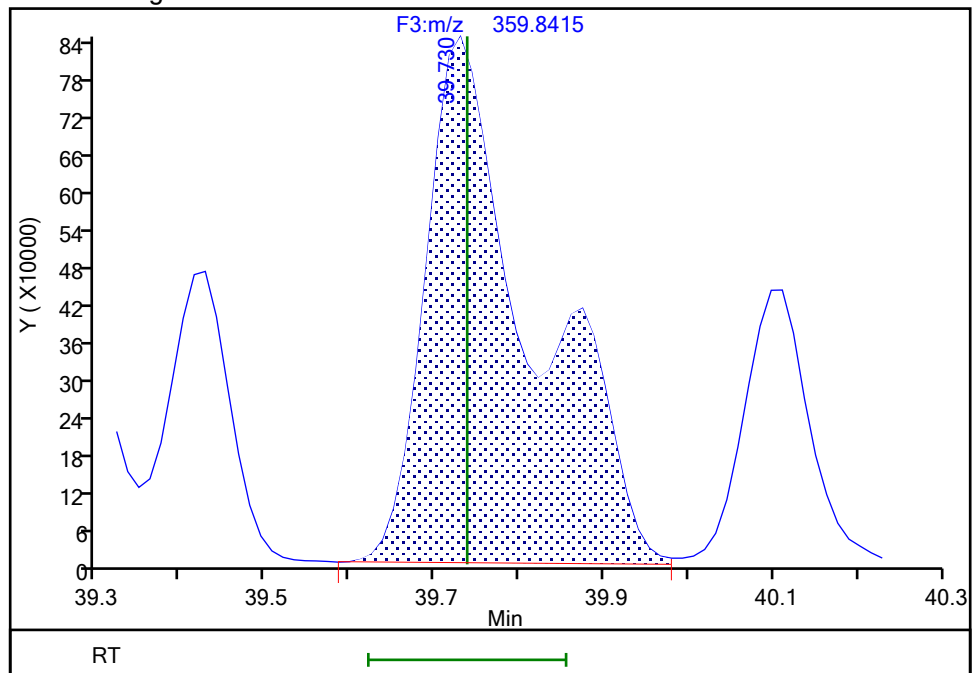
RT: 39.73  
Area: 5339577  
Amount: 141.6159  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.73  
Area: 7408765  
Amount: 197.3757  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 28-Jun-2024 00:28:23 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Instrument ID: D2D

Lims ID: LCS 140-87624/19-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

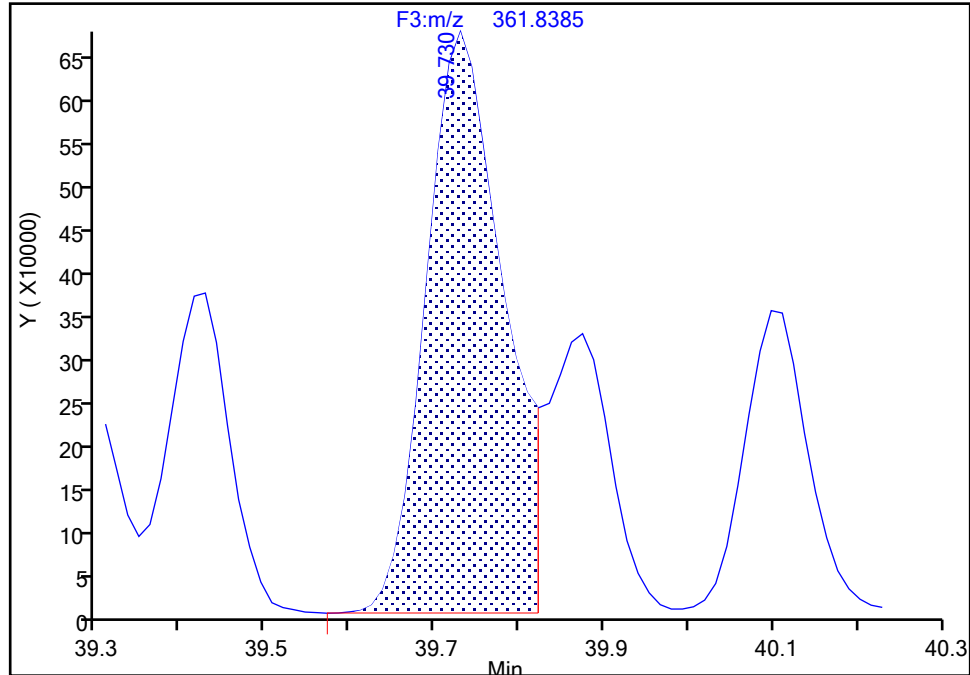
F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

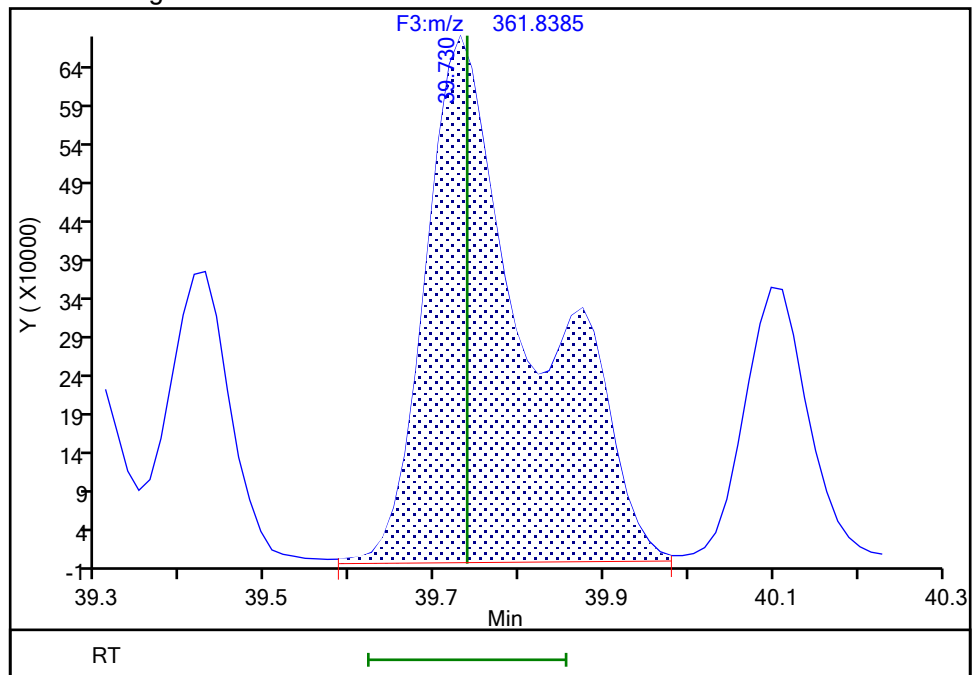
RT: 39.73  
Area: 4236115  
Amount: 141.6159  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.73  
Area: 5937256  
Amount: 197.3757  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 28-Jun-2024 00:28:31 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Page 3264 of 3373

BASFHWC-F-2024-05388

9/6/2024  
3:53:39 PM

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

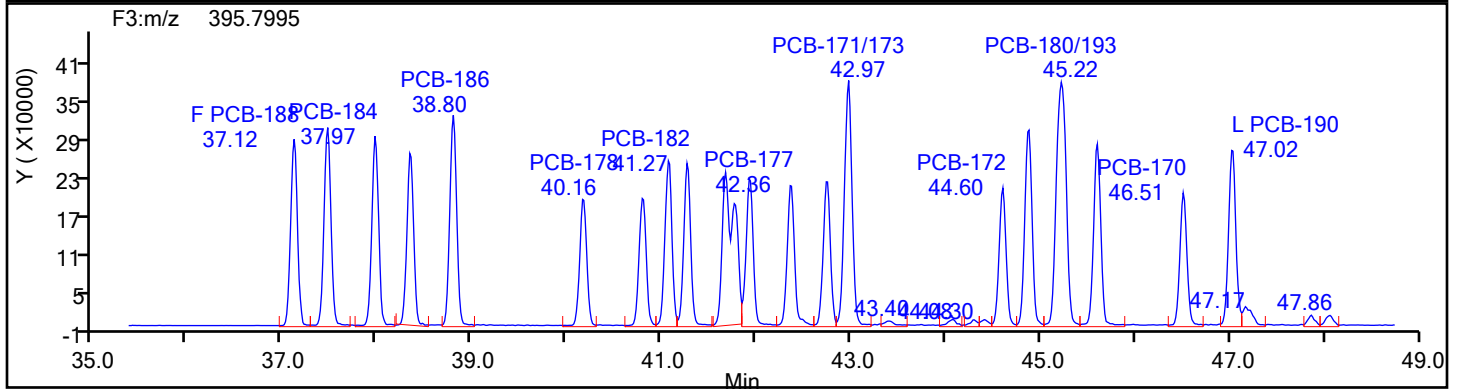
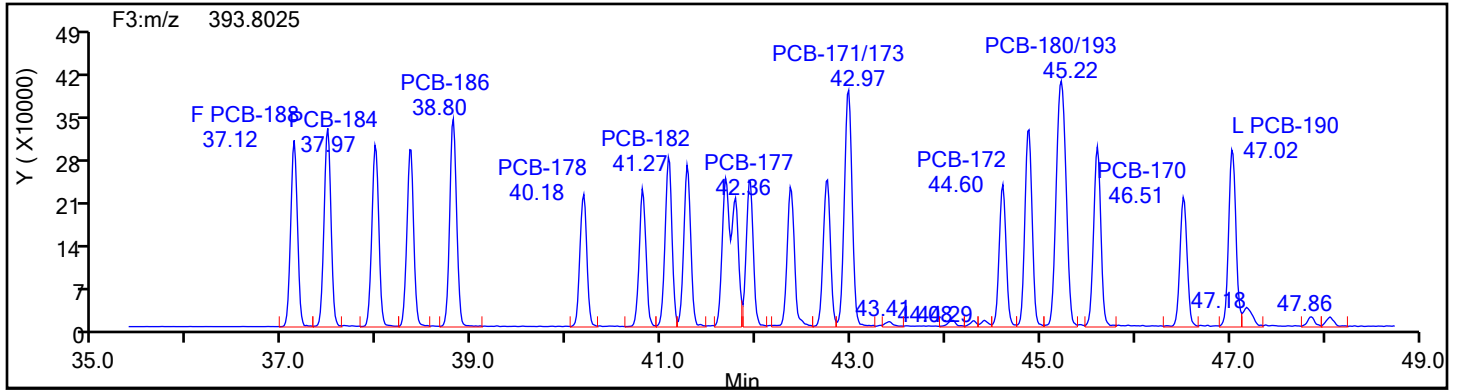
Worklist#: 88205

Sample Line#: 2

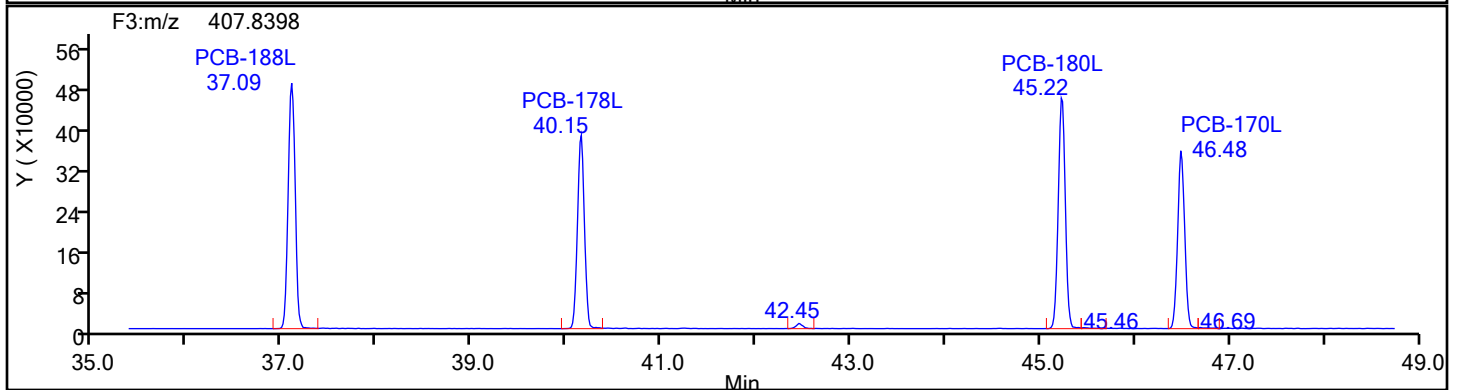
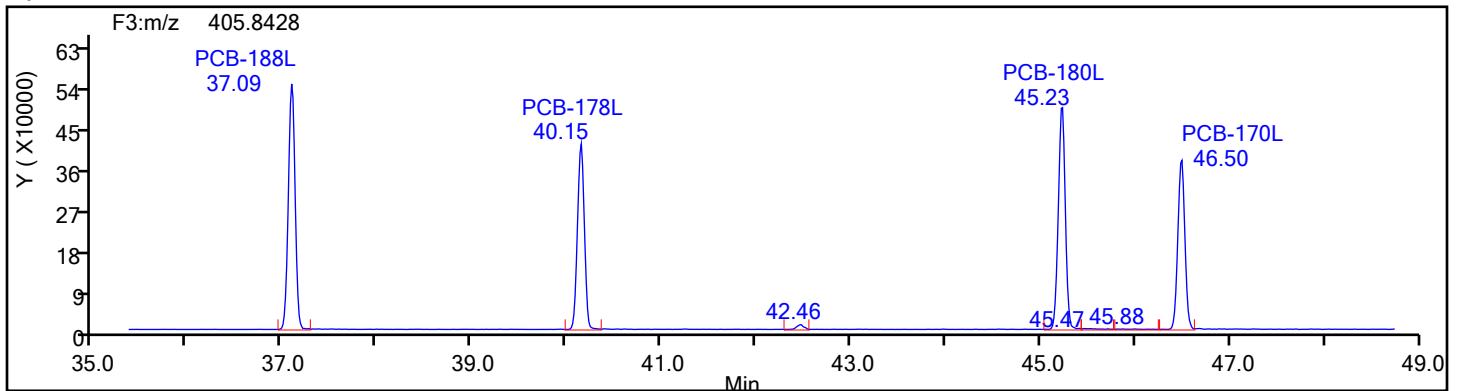
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

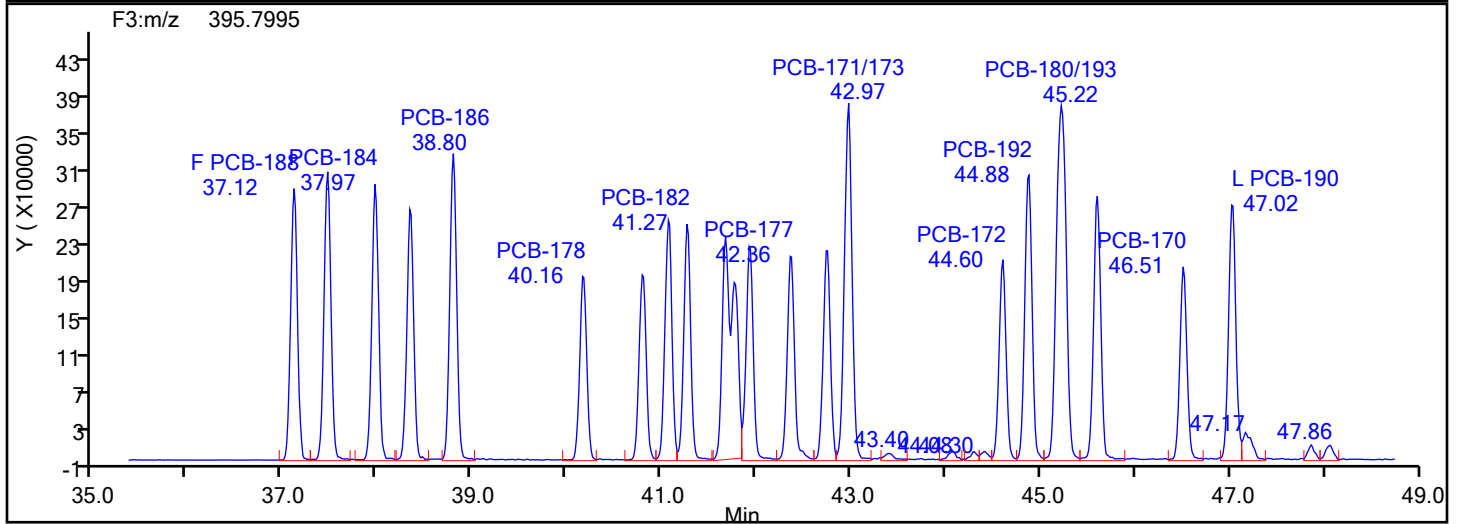
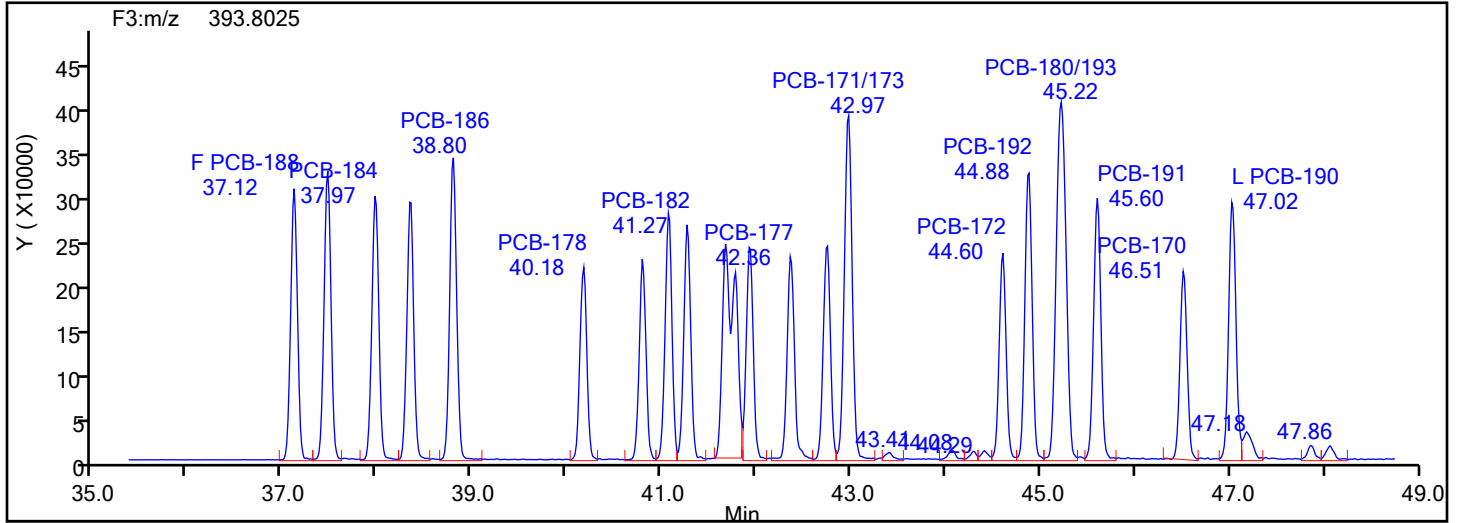
Worklist#: 88205

Sample Line#: 2

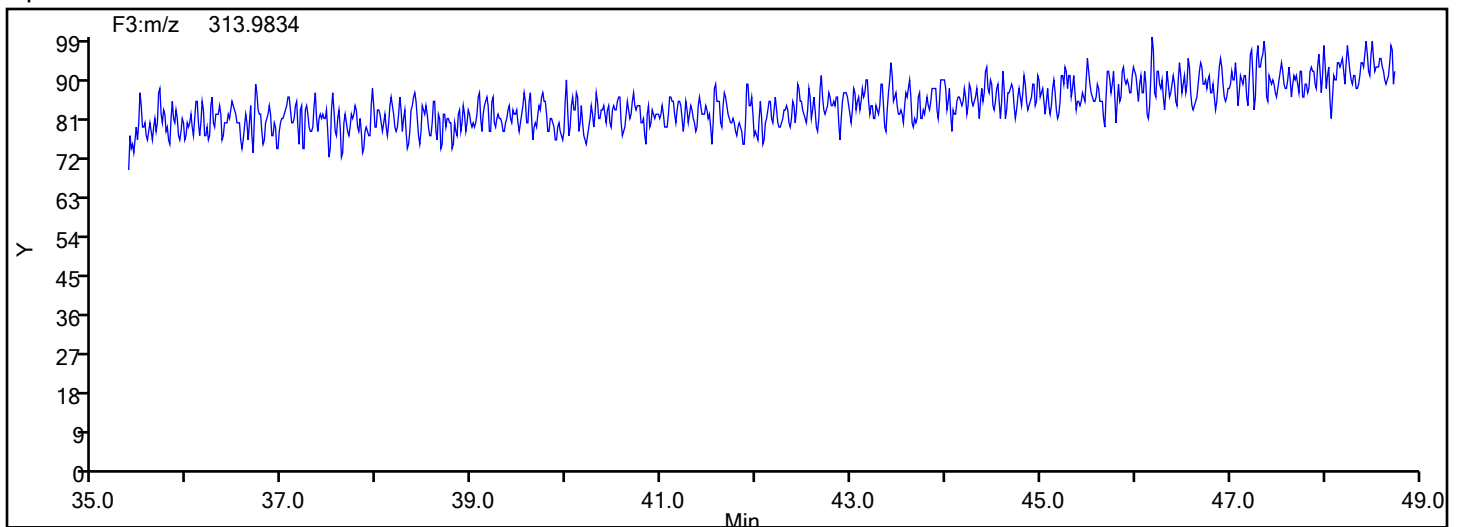
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

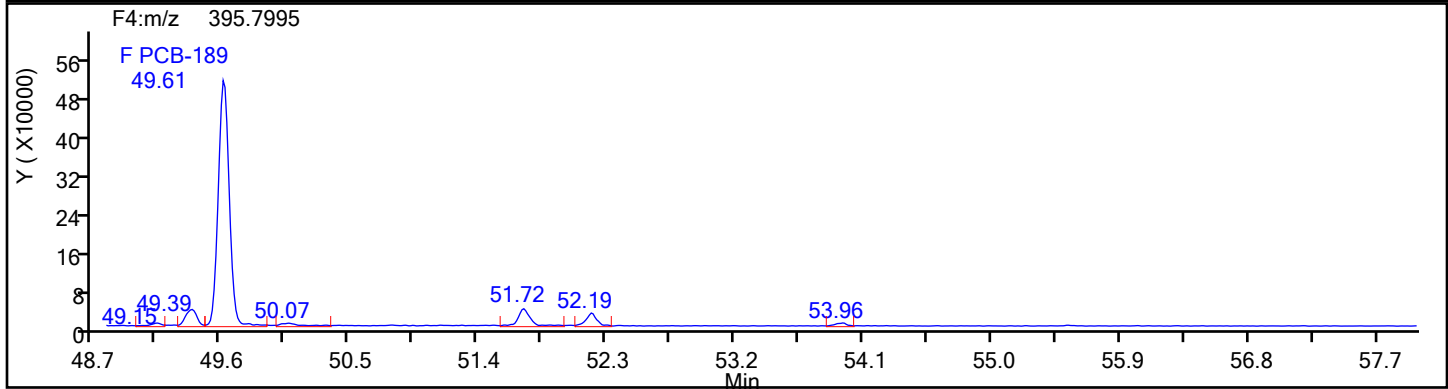
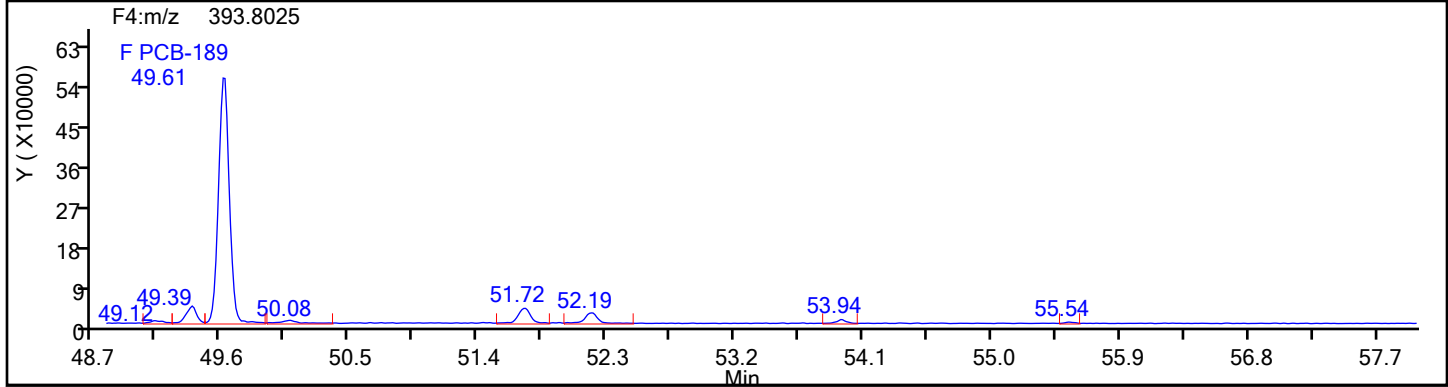
Worklist#: 88205

Sample Line#: 2

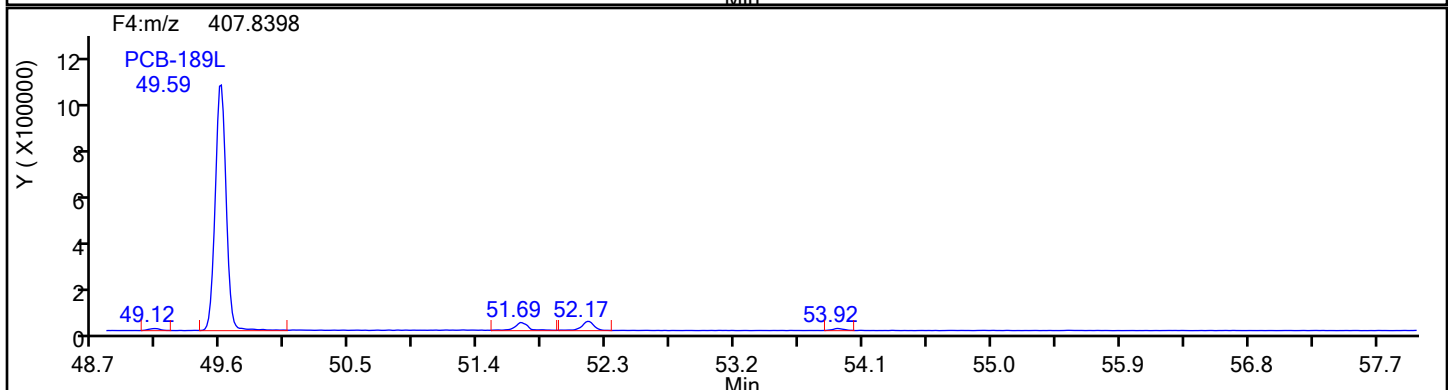
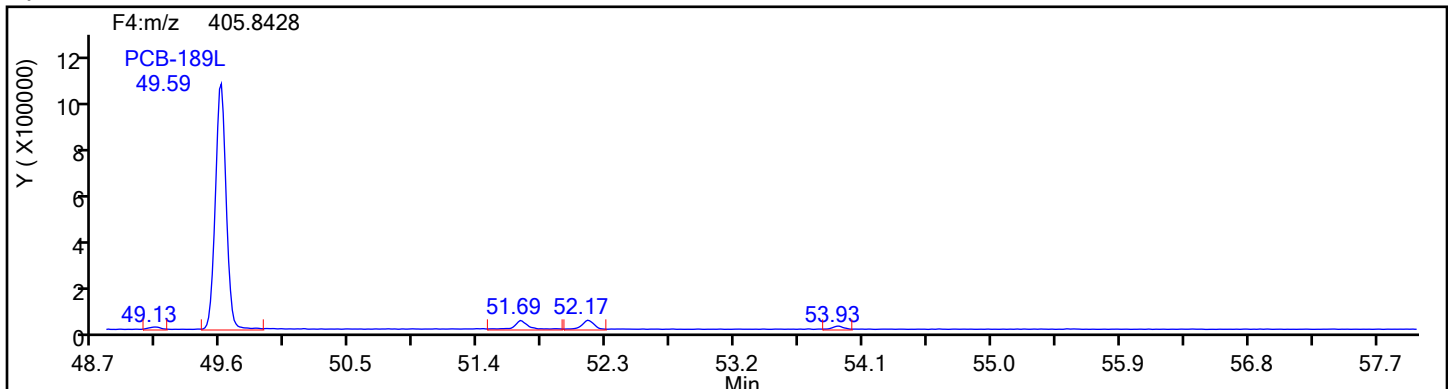
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

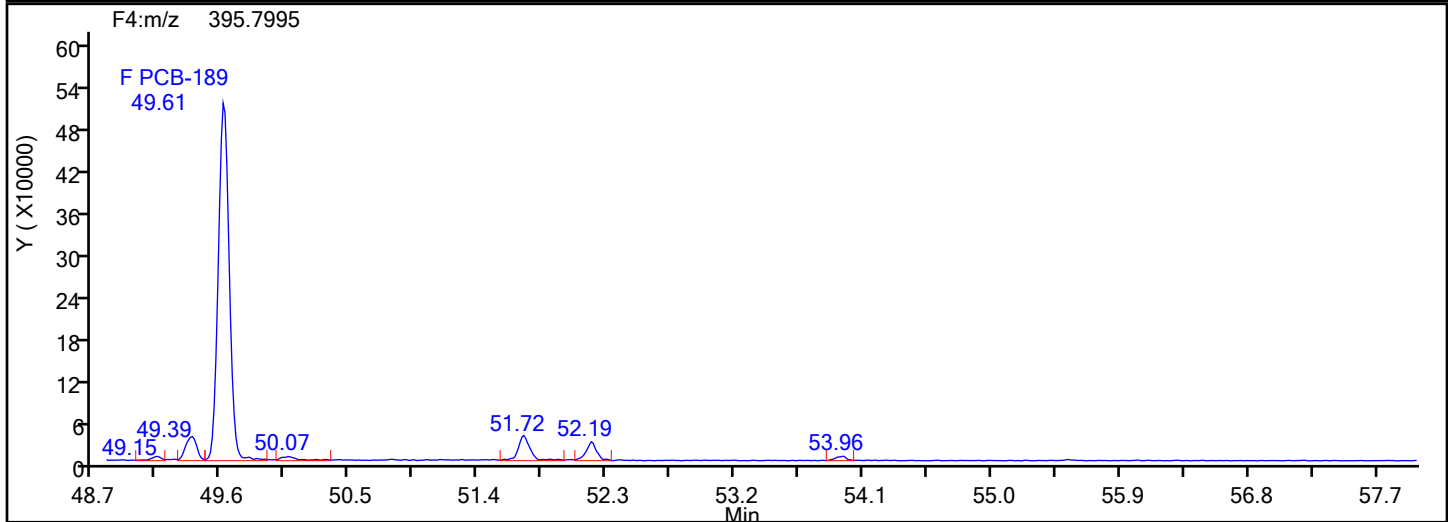
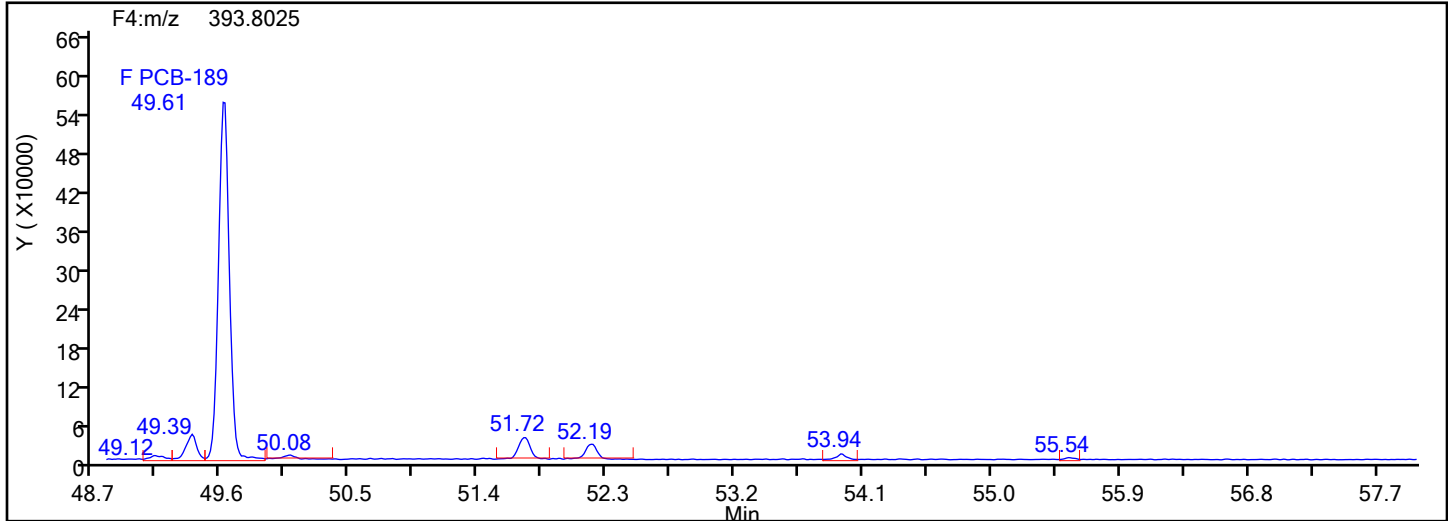
Worklist#: 88205

Sample Line#: 2

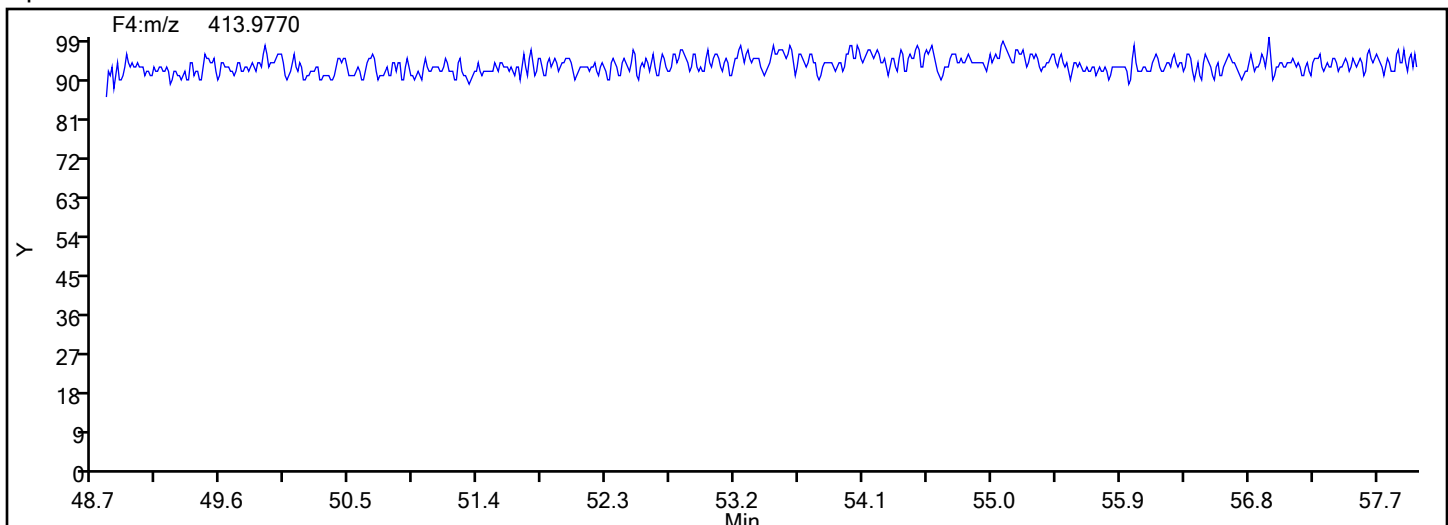
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

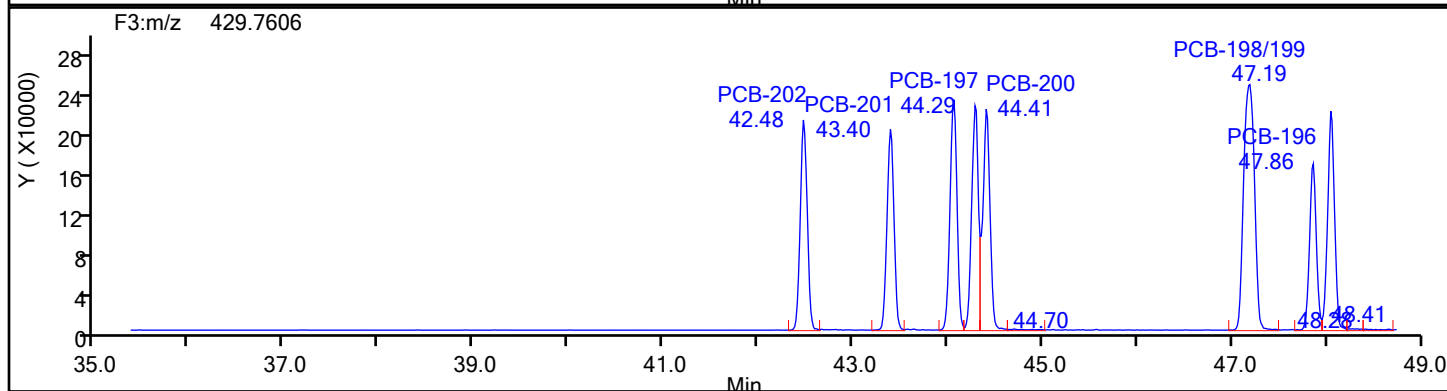
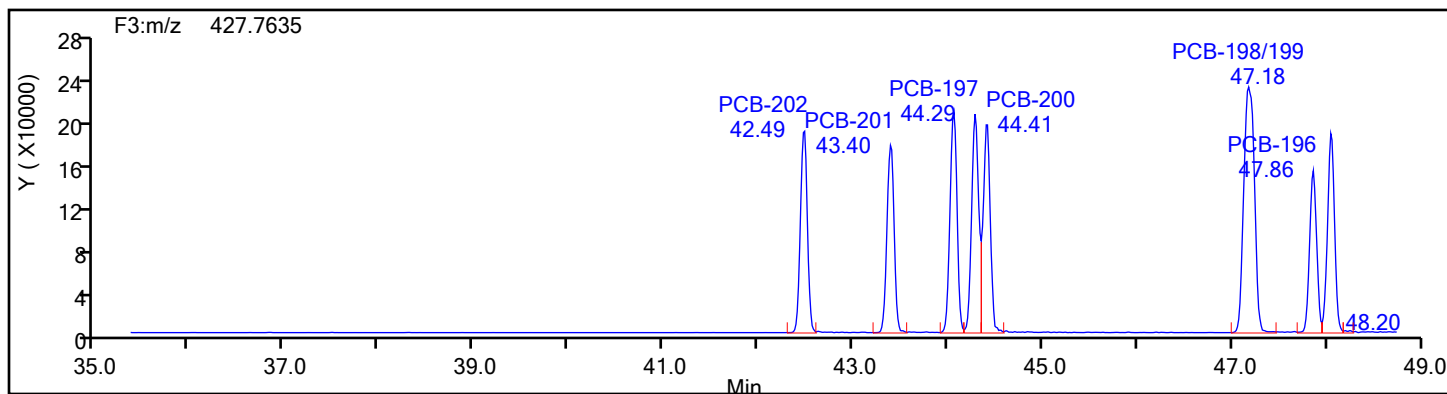
Worklist#: 88205

Sample Line#: 2

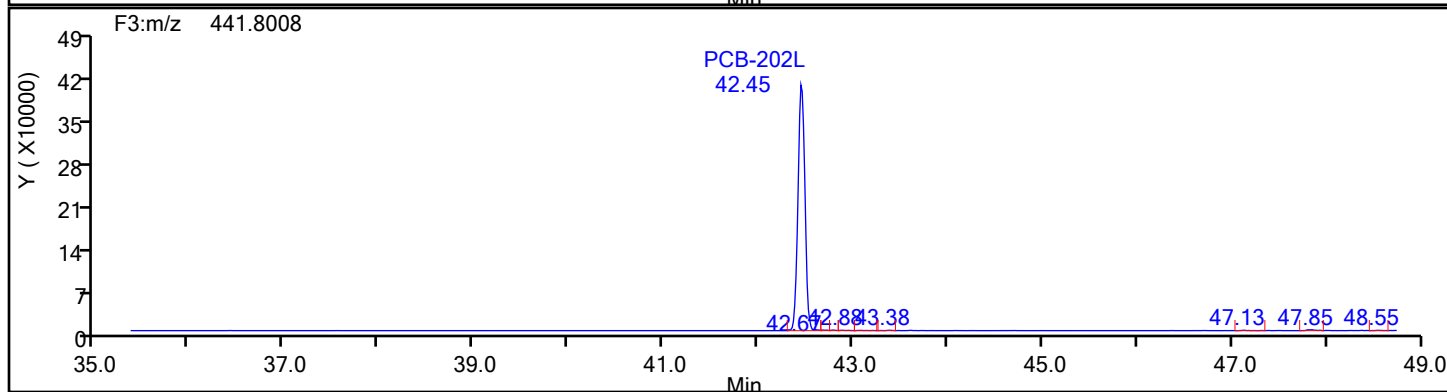
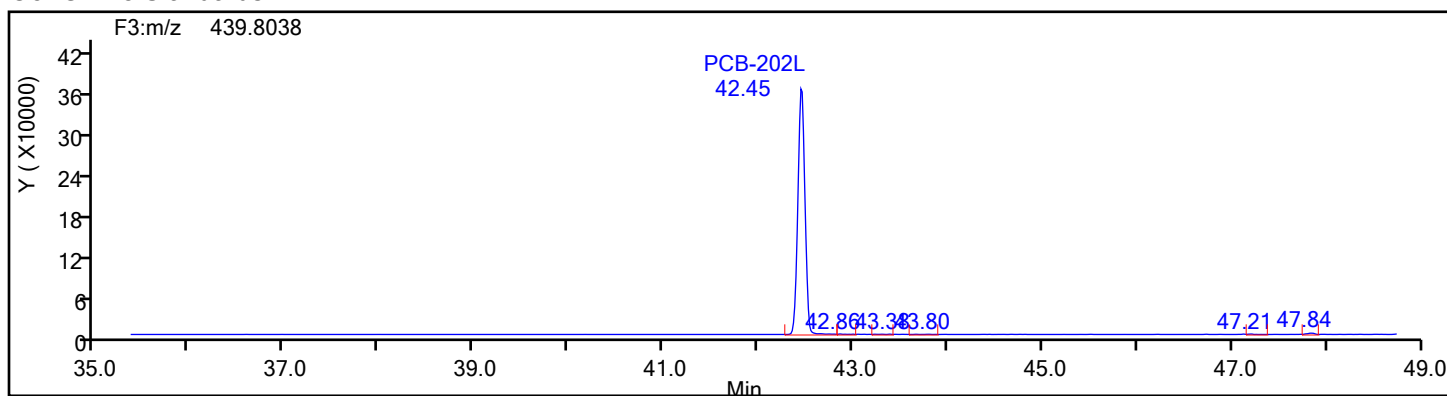
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

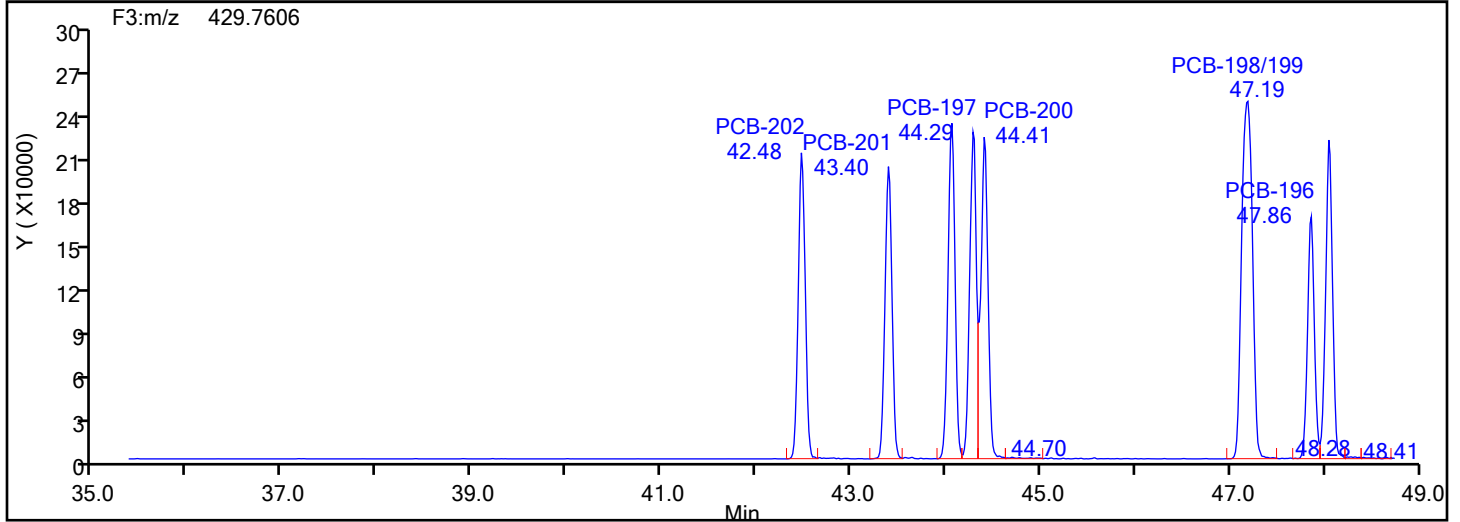
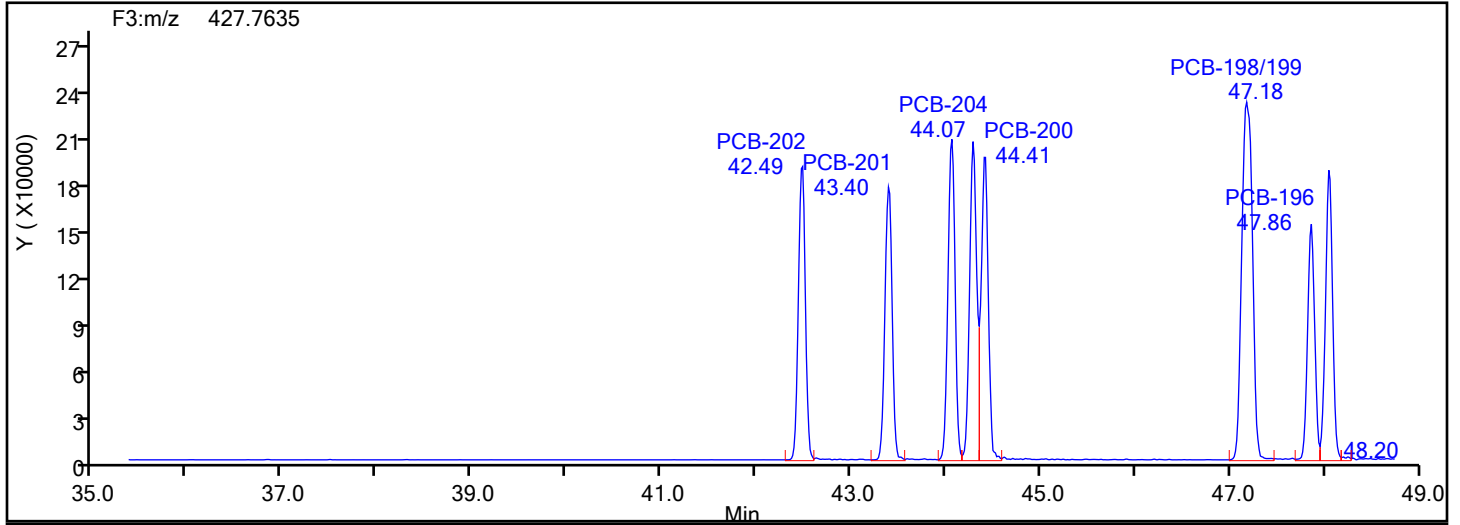
Worklist#: 88205

Sample Line#: 2

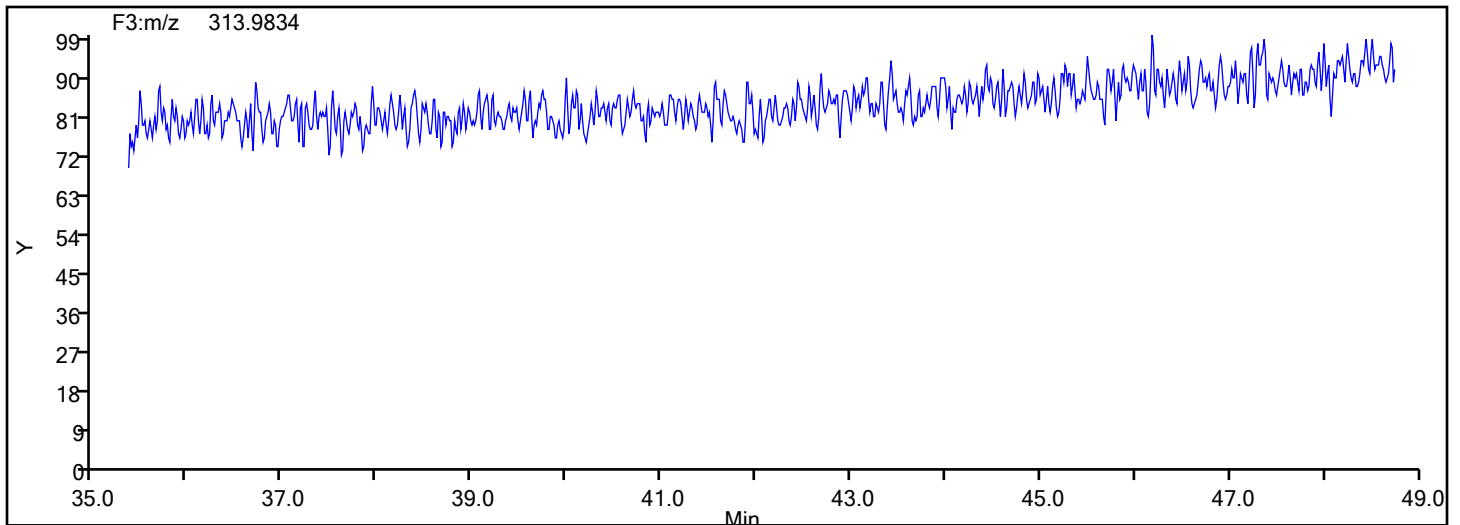
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



## OcPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

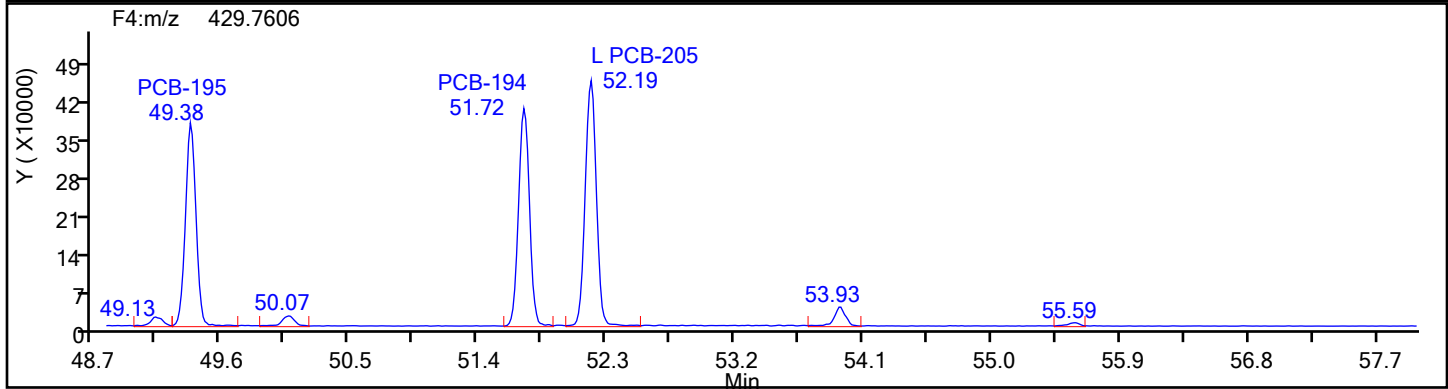
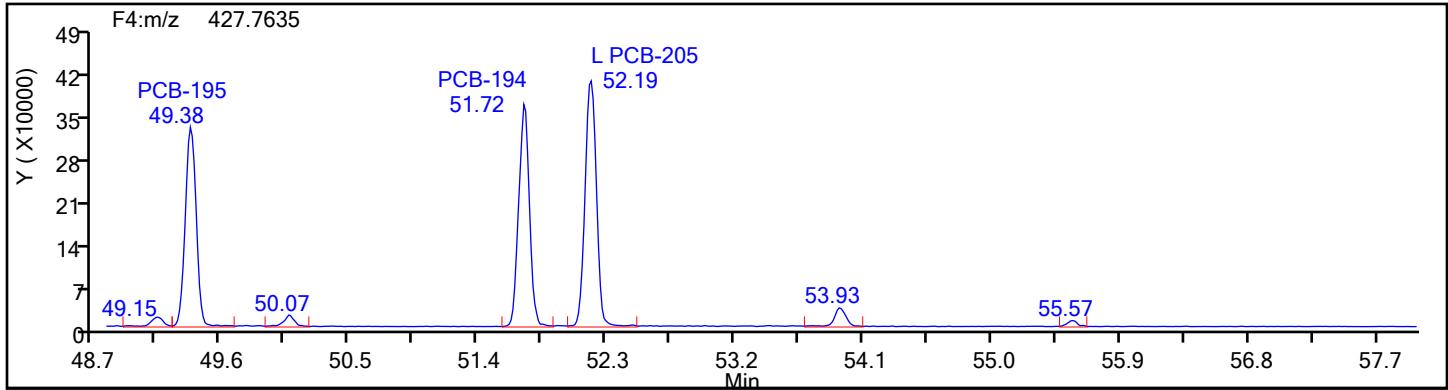
Worklist#: 88205

Sample Line#: 2

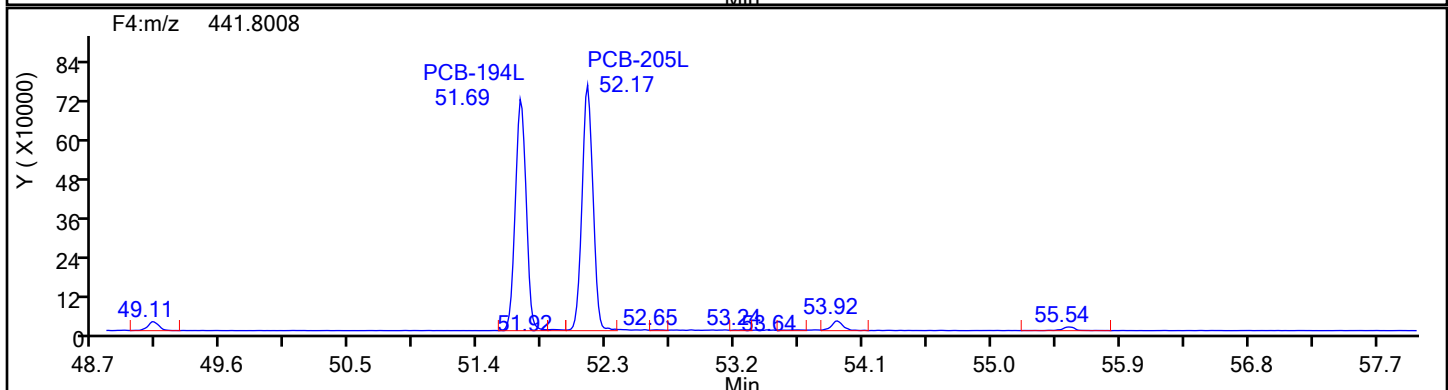
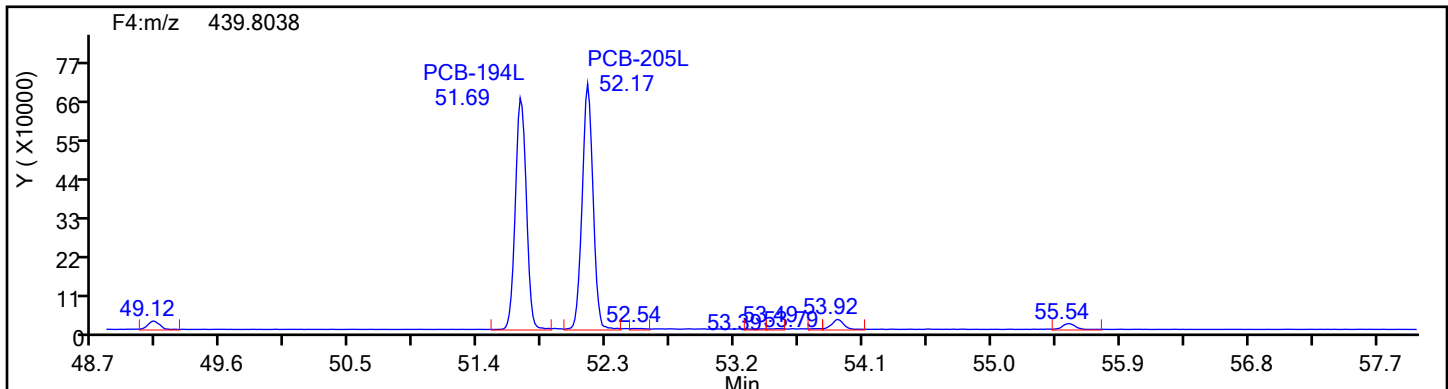
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

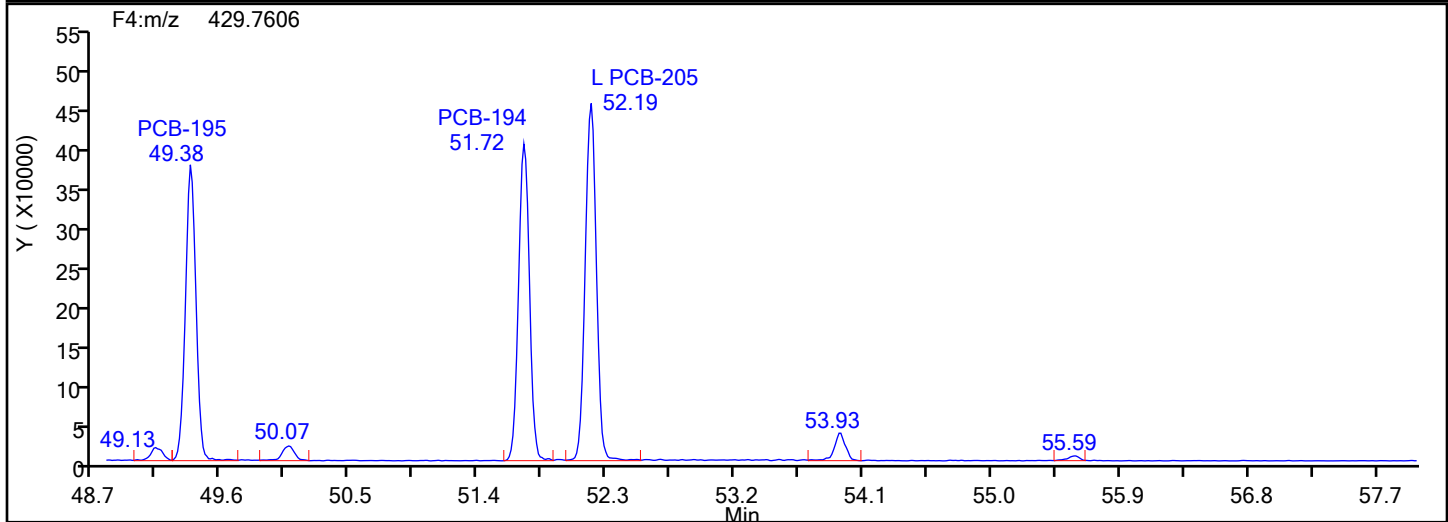
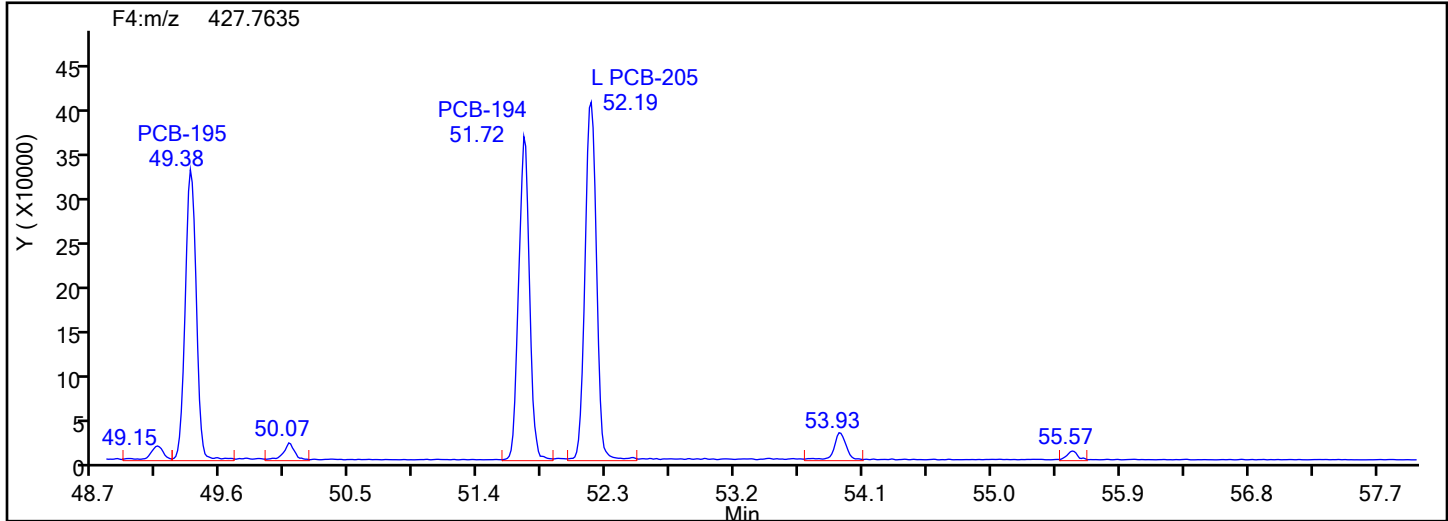
Worklist#: 88205

Sample Line#: 2

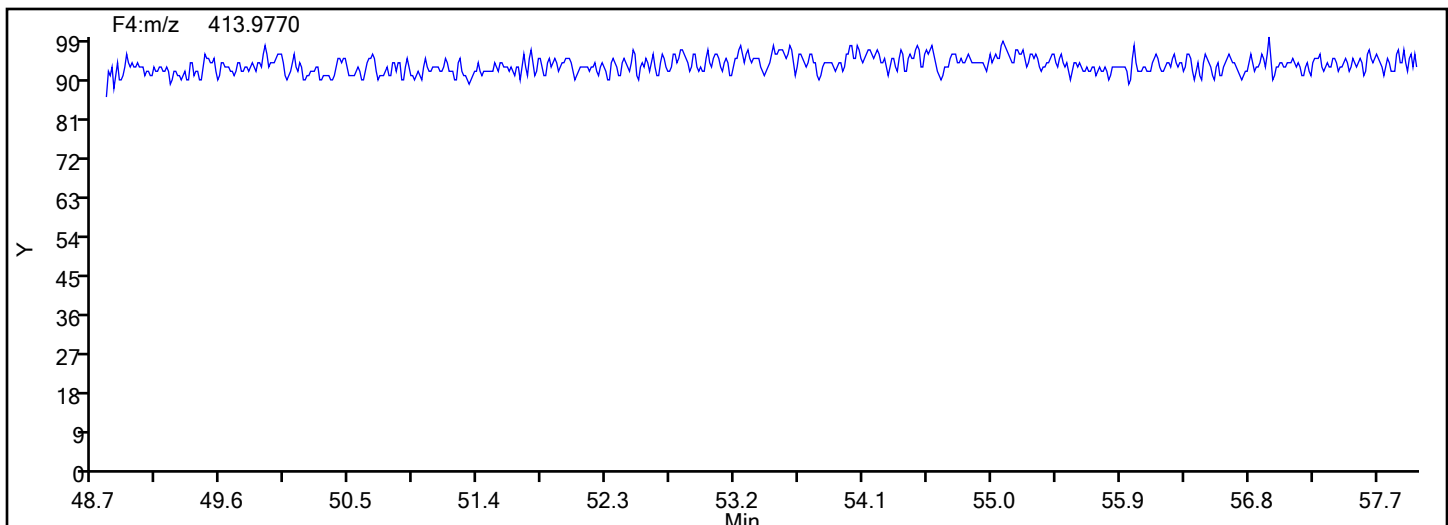
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

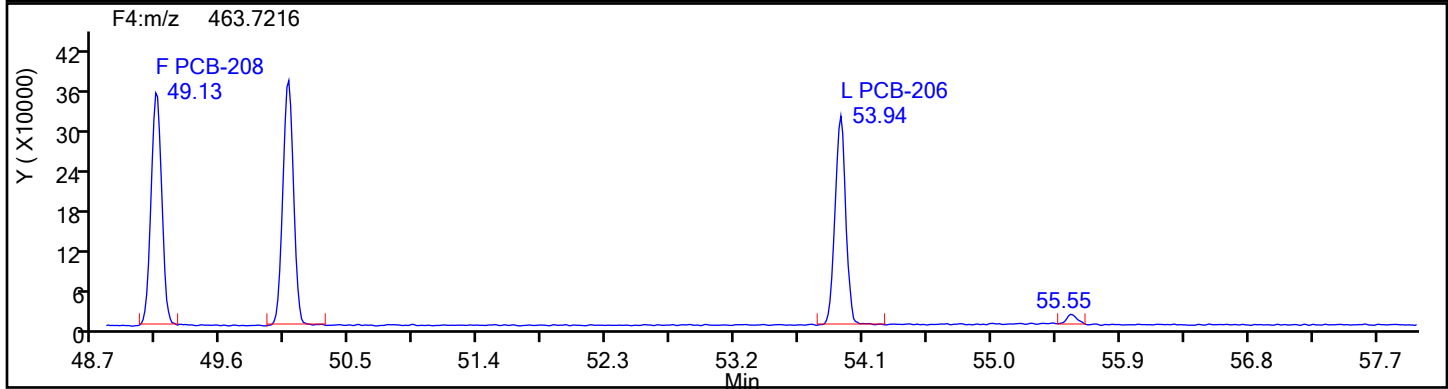
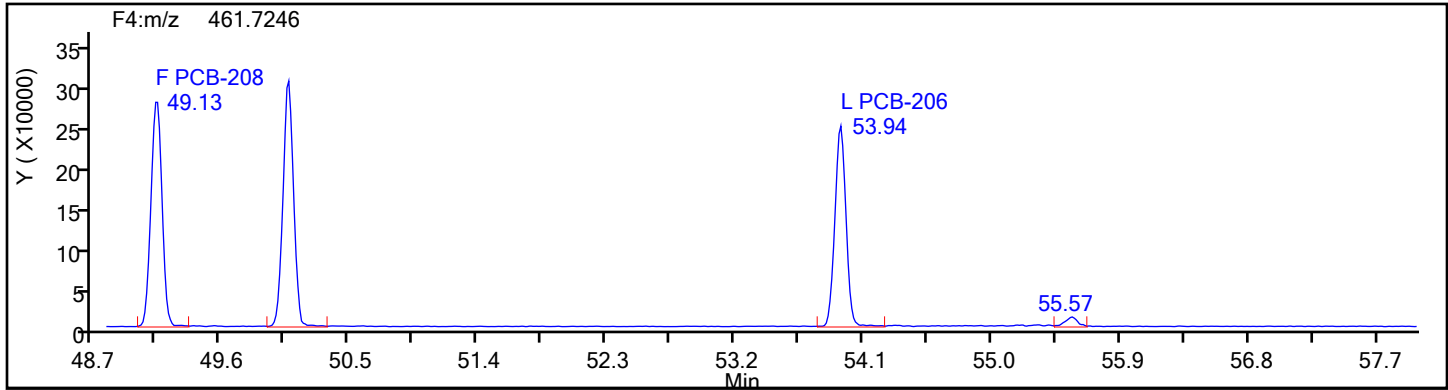
Worklist#: 88205

Sample Line#: 2

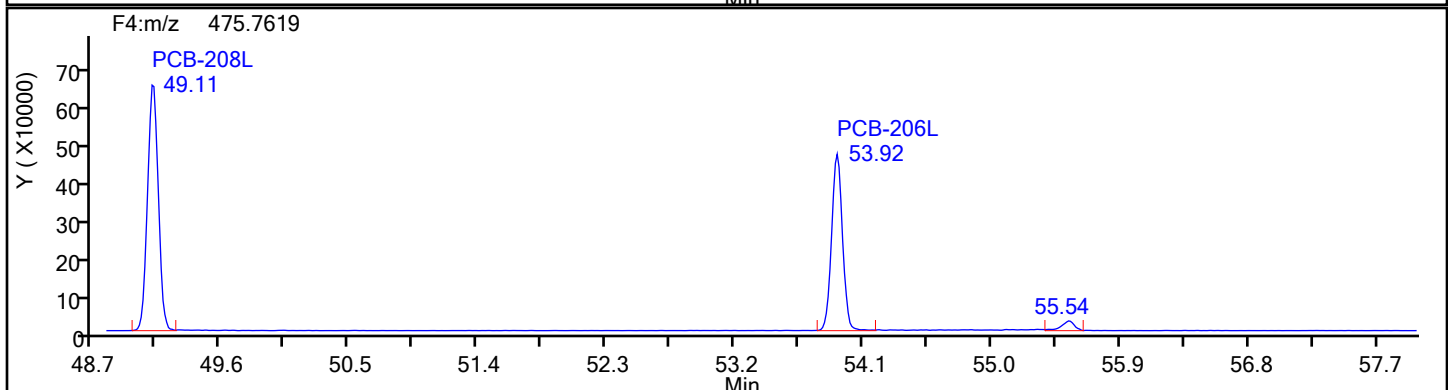
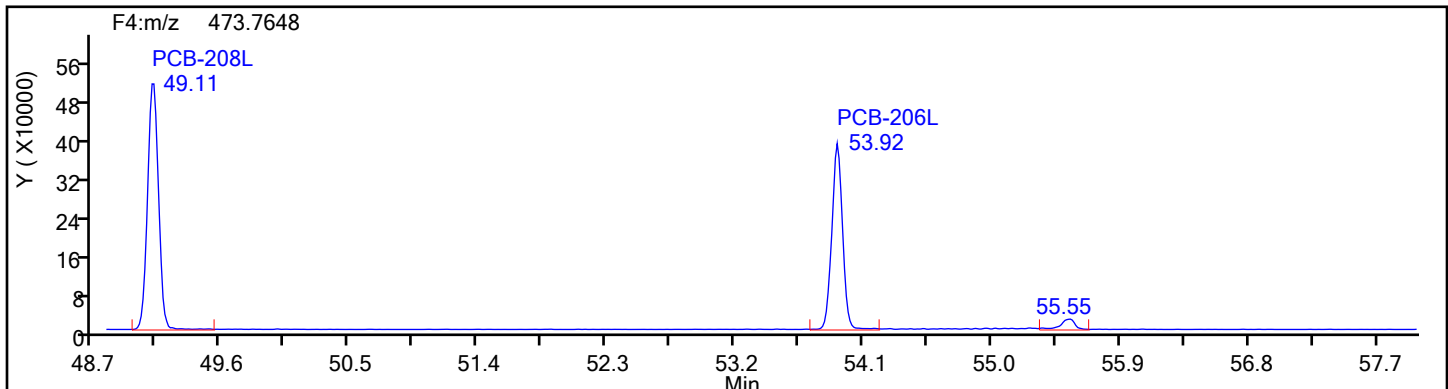
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

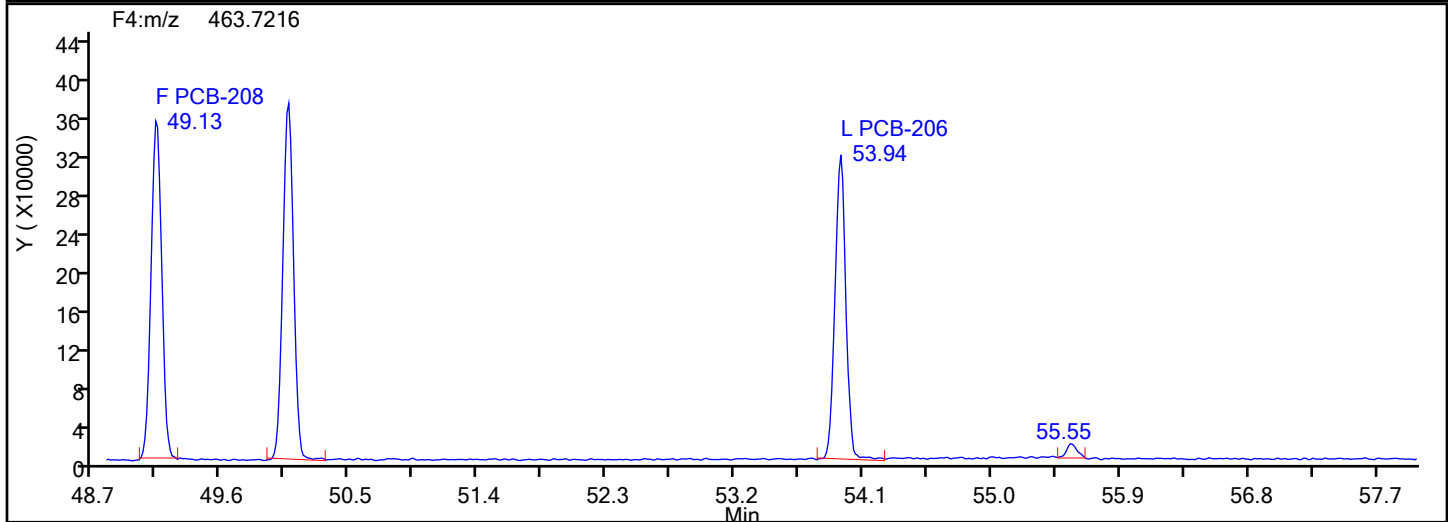
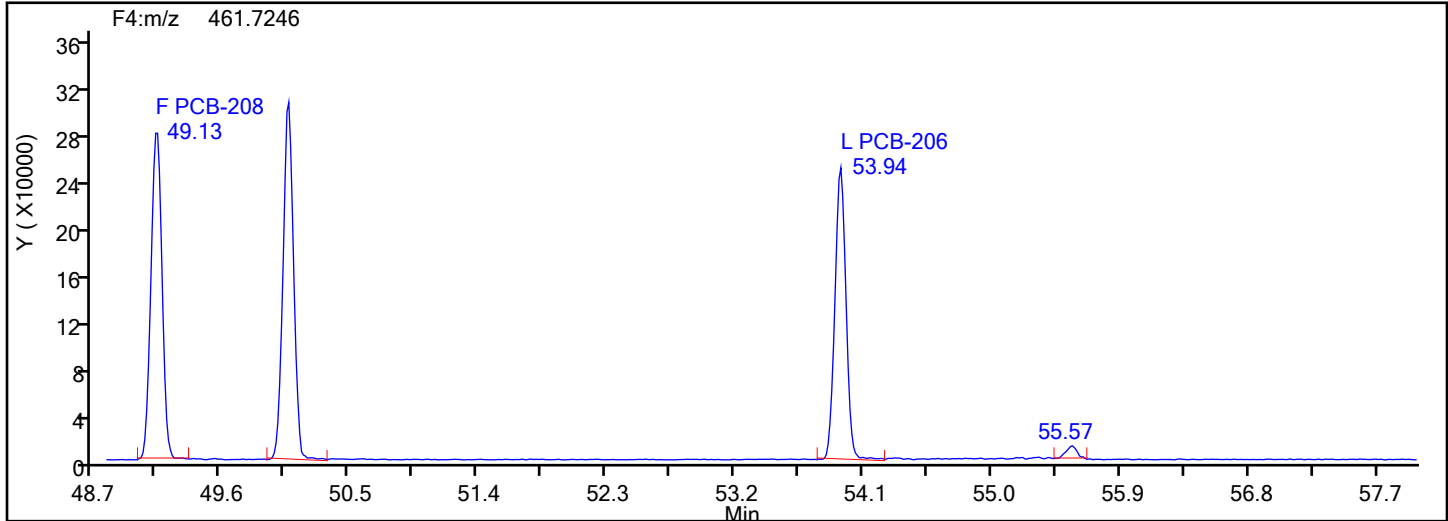
Worklist#: 88205

Sample Line#: 2

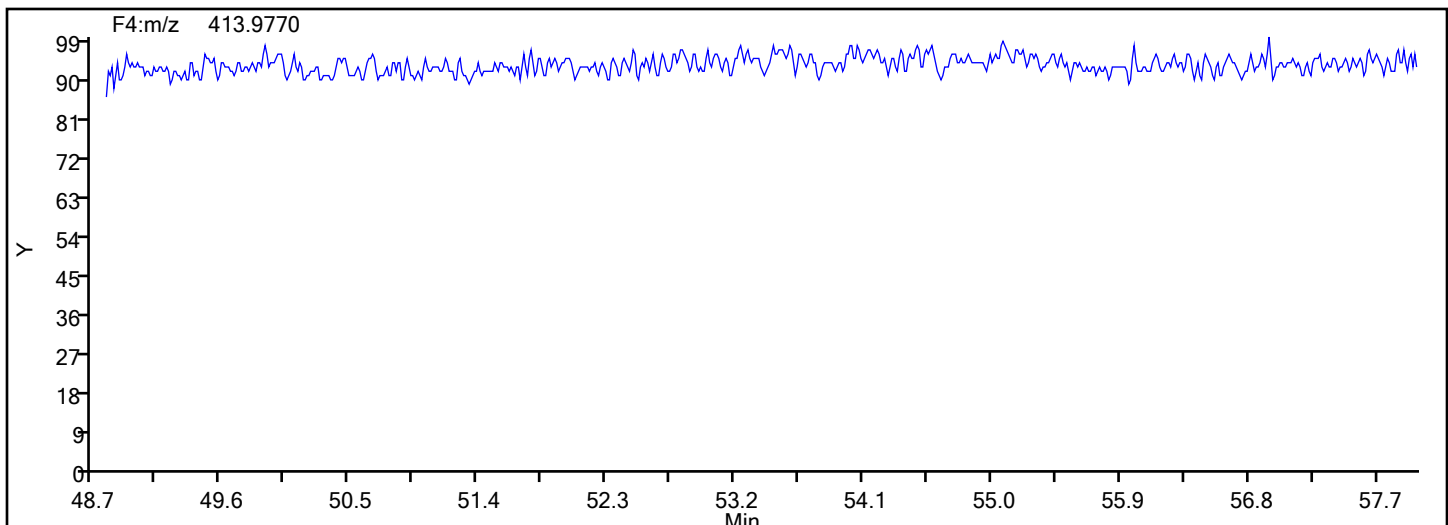
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

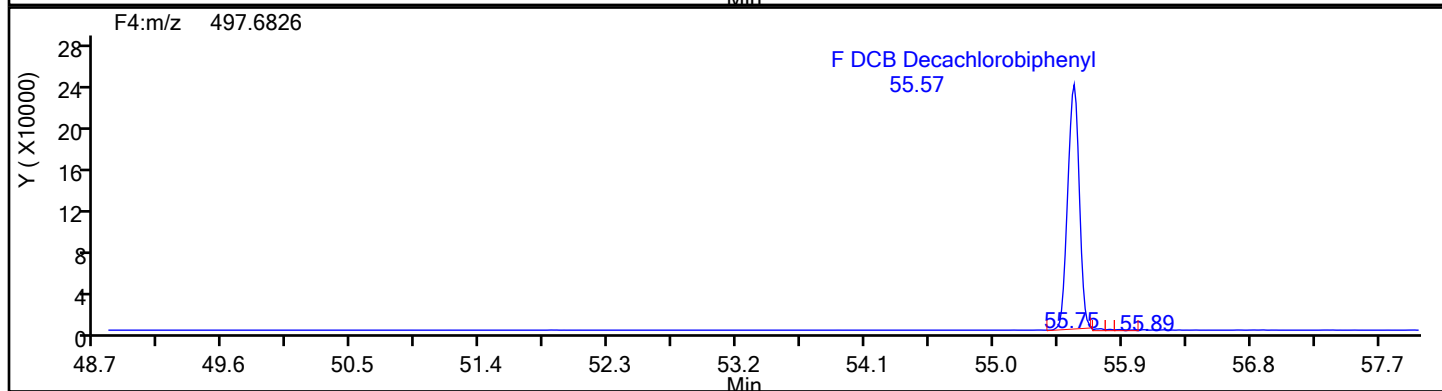
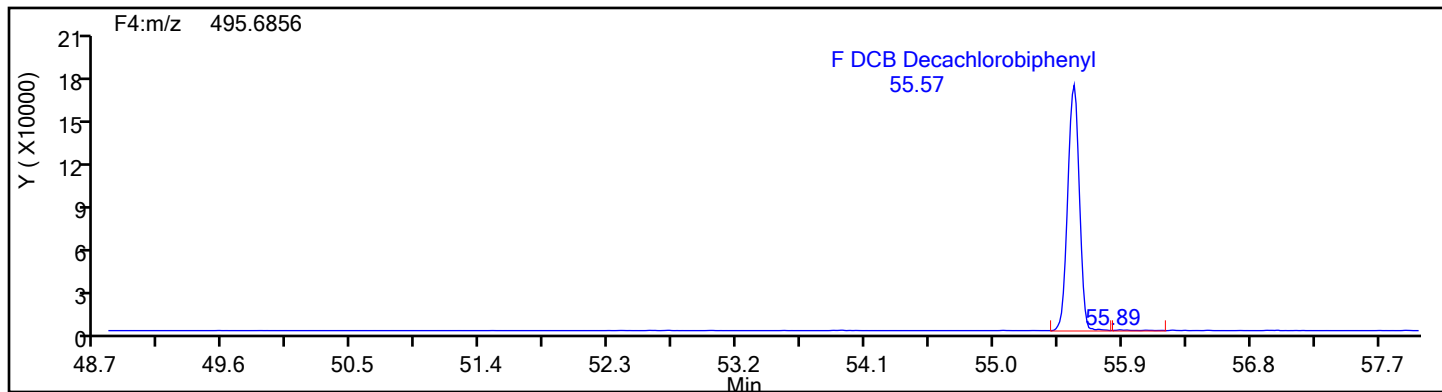
Worklist#: 88205

Sample Line#: 2

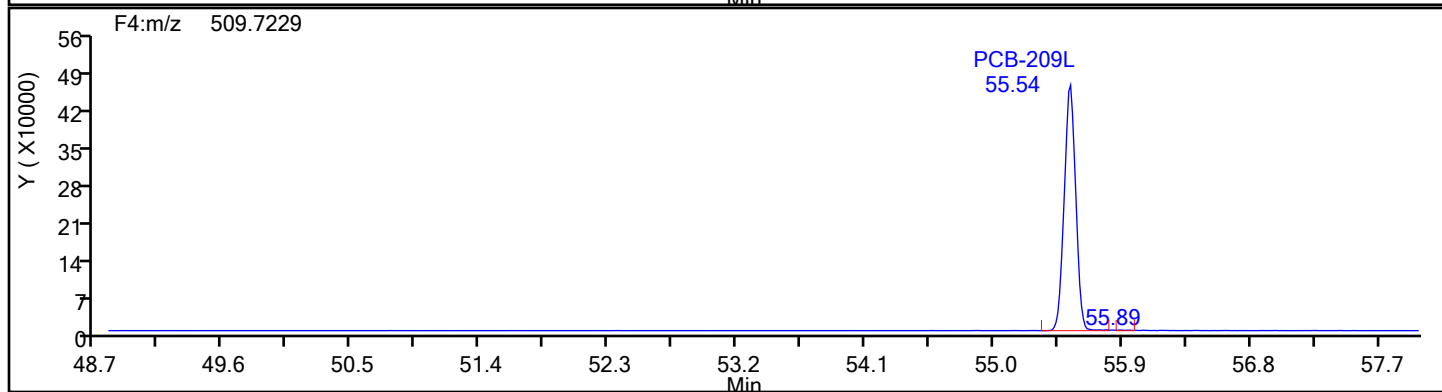
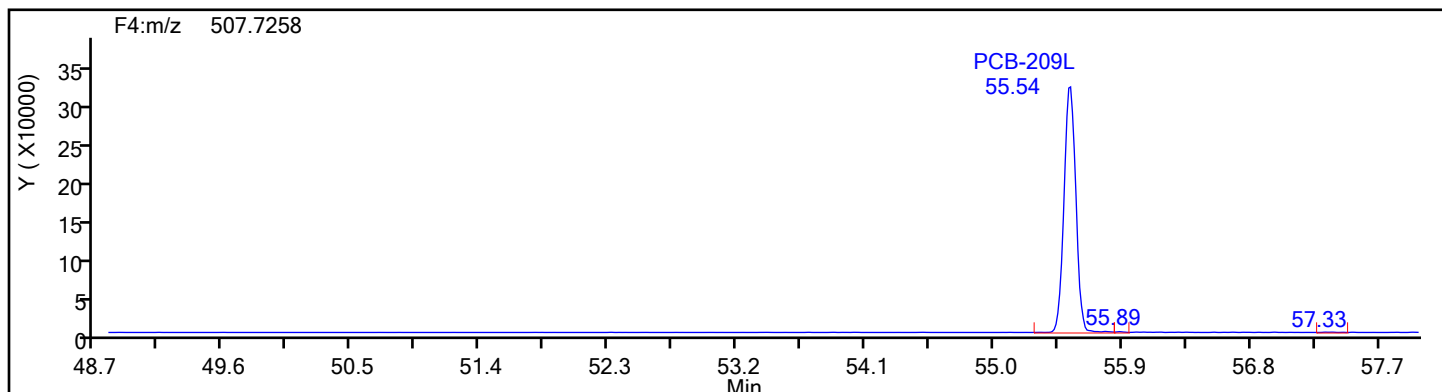
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d

Injection Date: 27-Jun-2024 23:11:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

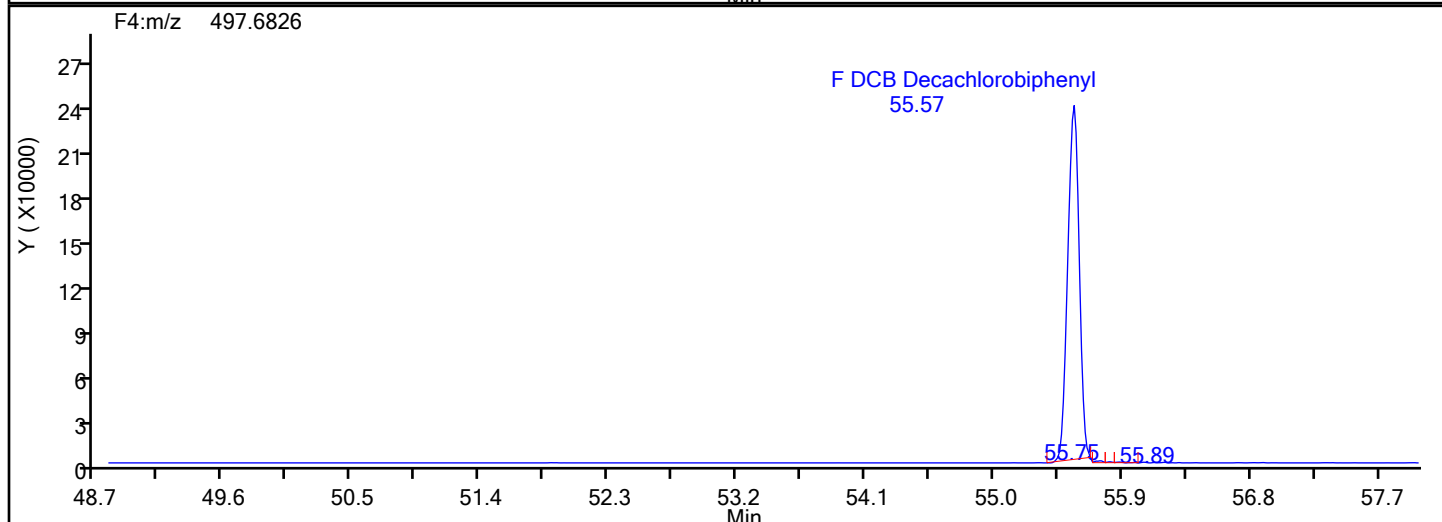
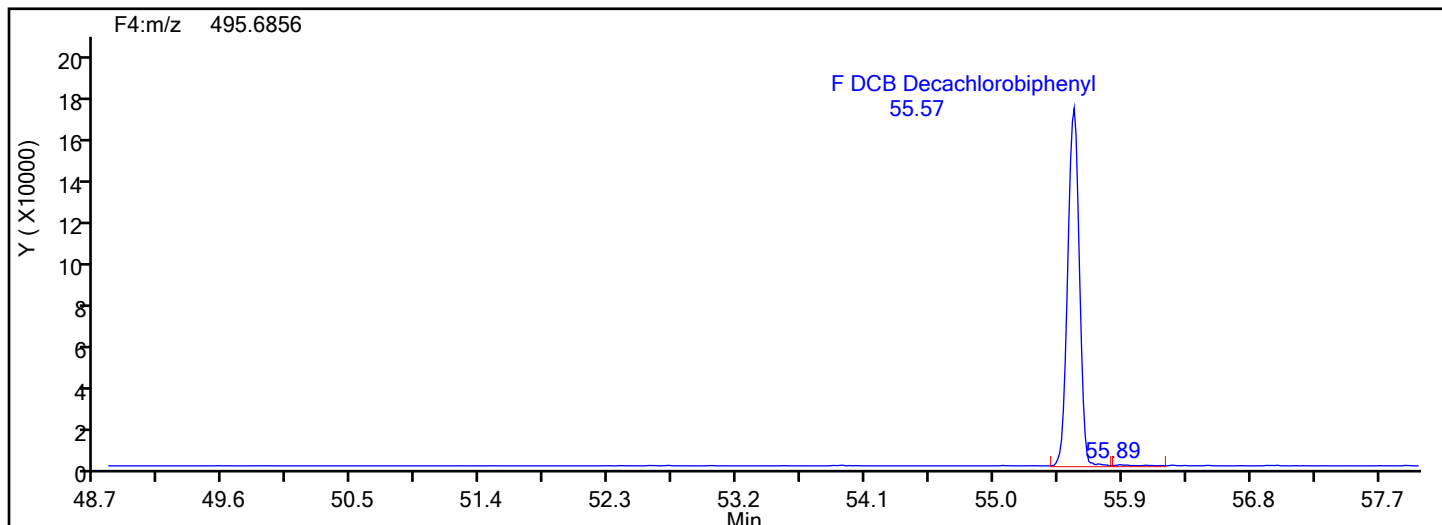
Worklist#: 88205

Sample Line#: 2

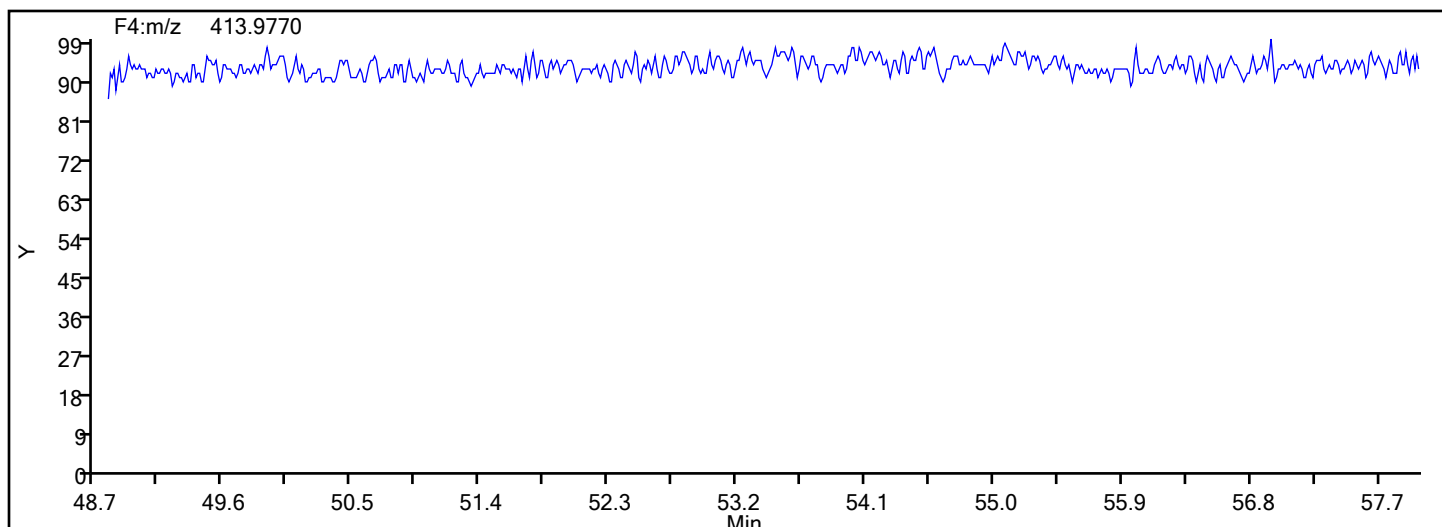
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Lock Mass



Data File:	\\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcs140-8762419-b.d				
Lims ID:	LCS 140-87624/19-B				
Client ID:					
Sample Type:	LCS				
Inject. Date:	27-Jun-2024 23:11:00	ALS Bottle#:	0	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	140-0033294-002				
Operator ID:	Xcalibur_System	Instrument ID:	D2D		
Method:	\\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs_D2D.m				
Limit Group:	HR - EPA_23 PCB ICAL				
Last Update:	28-Jun-2024 00:31:21	Calib Date:	31-May-2024 21:13:00		
Integrator:	Picker				
Quant Method:	Isotopic Dilution	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d				
Column 1 :	SPB-Octyl ( 0.25 mm)		Det: F1(11.07 :21.70 )		
Process Host:	CTX1639				

Date: 28-Jun-2024 00:31:21

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	73.5	73.53
PCB-111L	100.0	81.9	81.90
PCB-178L	100.0	79.7	79.72

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-87624/20-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-8762420-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/28/2024 00:12</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL	EDL
34883-43-7	PCB-8	17.97		0.600	0.132	0.0148
37680-65-2	PCB-18	39.53	C	0.600	0.285	0.0160
7012-37-5	PCB-28	29.59	C20	0.600	0.252	0.163
41464-39-5	PCB-44	42.80	C	0.900	0.390	0.0147
35693-99-3	PCB-52	14.73		0.300	0.132	0.0156
32598-10-0	PCB-66	15.92		0.300	0.120	0.0114
32598-13-3	PCB-77	16.16		0.300	0.126	0.0131
70362-50-4	PCB-81	15.65		0.300	0.0960	0.0134
37680-73-2	PCB-101	48.97	C90	0.900	0.390	0.0179
32598-14-4	PCB-105	15.49		0.300	0.102	0.194
74472-37-0	PCB-114	16.45		0.300	0.165	0.195
31508-00-6	PCB-118	14.68		0.300	0.183	0.172
65510-44-3	PCB-123	15.28		0.300	0.171	0.201
57465-28-8	PCB-126	18.37		0.300	0.123	0.201
38380-07-3	PCB-128	31.55	C	0.600	0.204	0.181
35065-28-2	PCB-138	57.84	C129	1.20	0.510	0.188
35065-27-1	PCB-153	29.43	C	0.600	0.249	0.163
38380-08-4	PCB-156	30.41	C	0.600	0.255	0.202
69782-90-7	PCB-157	30.41	C156	0.600	0.255	0.202
52663-72-6	PCB-167	15.67		0.300	0.180	0.131
32774-16-6	PCB-169	17.08		0.300	0.123	0.128
35065-30-6	PCB-170	14.98		0.300	0.132	0.0135
35065-29-3	PCB-180	32.81	C	0.600	0.204	0.0116
52663-68-0	PCB-187	16.41		0.300	0.126	0.0123
39635-31-9	PCB-189	16.41		0.300	0.147	0.0515
52663-78-2	PCB-195	16.80		0.300	0.159	0.0512
40186-72-9	PCB-206	15.08		0.300	0.171	0.0635
2051-24-3	PCB-209	14.31		0.300	0.138	0.0178

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Knoxville</u>	Job No.: <u>140-36940-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 140-87624/20-B</u>
Matrix: <u>Air</u>	Lab File ID: <u>lcsd140-8762420-b.d</u>
Analysis Method: <u>23</u>	Date Collected: _____
Extract. Method: <u>Combined Prep</u>	Date Extracted: <u>06/13/2024 10:44</u>
Sample wt/vol: <u>1 (Sample)</u>	Date Analyzed: <u>06/28/2024 00:12</u>
Con. Extract Vol.: <u>30 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>SPB-Octyl</u> ID: <u>0.25 (mm)</u>
% Moisture: _____ % Solids: _____	GPC Cleanup: (Y/N) <u>N</u>
Cleanup Factor: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>88205</u>	Units: <u>ng/Sample</u>
Preparation Batch No.: <u>87624</u>	Instrument ID: <u>Excalibur D2D DFS</u>

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
234432-85-0	PCB-1L	61		15-145
208263-77-8	PCB-3L	82		15-145
234432-86-1	PCB-4L	56		15-145
208263-67-6	PCB-15L	73		15-145
234432-87-2	PCB-19L	58		15-145
208263-79-0	PCB-37L	77		15-145
234432-88-3	PCB-54L	75		15-145
105600-23-5	PCB-77L	86		40-145
208461-24-9	PCB-81L	84		40-145
234432-89-4	PCB-104L	76		40-145
208263-62-1	PCB-105L	82		40-145
208263-63-2	PCB-114L	80		40-145
104130-40-7	PCB-118L	82		40-145
208263-64-3	PCB-123L	81		40-145
208263-65-4	PCB-126L	88		40-145
234432-90-7	PCB-155L	80		40-145
208263-68-7	PCB-156L	88	C	40-145
235416-30-5	PCB-157L	88	C156	40-145
208263-69-8	PCB-167L	84		40-145
208263-70-1	PCB-169L	89		40-145
160901-80-4	PCB-170L	89		40-145
234432-91-8	PCB-188L	76		40-145
208263-73-4	PCB-189L	100		40-145
105600-26-8	PCB-202L	80		40-145
234446-64-1	PCB-205L	88		40-145
208263-75-6	PCB-206L	84		40-145
234432-92-9	PCB-208L	85		40-145
105600-27-9	PCB-209L	87		40-145

FORM I  
HI-RES PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 140-87624/20-B  
Matrix: Air Lab File ID: lcsd140-8762420-b.d  
Analysis Method: 23 Date Collected: \_\_\_\_\_  
Extract. Method: Combined Prep Date Extracted: 06/13/2024 10:44  
Sample wt/vol: 1 (Sample) Date Analyzed: 06/28/2024 00:12  
Con. Extract Vol.: 30 (mL) Dilution Factor: 1  
Injection Volume: 1 (uL) GC Column: SPB-Octyl ID: 0.25 (mm)  
% Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Cleanup Factor: \_\_\_\_\_ Level: (low/med) Low  
Analysis Batch No.: 88205 Units: ng/Sample  
Preparation Batch No.: 87624 Instrument ID: Excalibur D2D DFS

CAS NO.	SURROGATE	%REC	Q	LIMITS
208263-76-7	PCB-28L	72		15-145
235416-29-2	PCB-111L	79		40-145
232919-67-4	PCB-178L	79		40-145

Eurofins Knoxville  
Target Compound Quantitation Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d  
 Lims ID: LCSD 140-87624/20-B  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 28-Jun-2024 00:12:00 ALS Bottle#: 0 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info:  
 Misc. Info.: 140-0033294-003  
 Operator ID: Xcalibur\_System Instrument ID: D2D  
 Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
 Limit Group: HR - EPA\_23 PCB ICAL  
 Last Update: 28-Jun-2024 01:30:32 Calib Date: 31-May-2024 21:13:00  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
 Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
 Process Host: CTX1639

First Level Reviewer: Q9DB

Date: 28-Jun-2024 01:30:32

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Monochlorobiphenyls					175.8	175.8	0.2091	0.2091		
D PCB-1L	11:40	7288161	3.16	1.6108	61.2	61.2	0.2612	0.2612	61.17	
D PCB-3L	13:50	9591908	3.21	1.5891	81.6	81.6	0.2648	0.2648	81.60	
PCB-1	11:41	4933169	3.19	1.2191	55.5	55.5	0.2145	0.2145	111	
PCB-2	13:40	6474978	3.17	1.1805	65.0	65.0	0.2135	0.2135	130	
PCB-3	13:50	6470428	3.10	1.2206	55.3	55.3	0.1993	0.1993	111	
S Total Dichlorobiphenyls					676.6	676.6	0.0575	0.0575		
D PCB-4L	14:05	2667827	1.61	0.6475	55.7	55.7	0.1373	0.1373	55.70	
* PCB-9L	16:02	7396712	1.62		100.0	100.0				
D PCB-15L	19:58	5823761	1.65	1.0789	73.0	73.0	0.0824	0.0824	72.97	
PCB-4	14:06	1851147	1.61	1.2818	54.1	54.1	0.0797	0.0797	108	
PCB-10	14:16	2562274	1.64	1.3149	45.9	45.9	0.0596	0.0596	91.79	
PCB-9	16:04	3569282	1.62	1.4224	59.1	59.1	0.0551	0.0551	118	
PCB-7	16:13	3296605	1.64	1.4134	54.9	54.9	0.0554	0.0554	110	
PCB-6	16:28	3820980	1.63	1.5421	58.4	58.4	0.0508	0.0508	117	
PCB-5	16:46	2854674	1.63	1.3395	50.2	50.2	0.0585	0.0585	100	
PCB-8	16:54	4041458	1.64	1.5889	59.9	59.9	0.0493	0.0493	120	
PCB-14	18:30	3445220	1.63	1.4025	57.9	57.9	0.0559	0.0559	116	
PCB-11	19:21	3773898	1.62	1.2951	68.6	68.6	0.0605	0.0605	137	
PCB-12	19:40	6680174	1.62	1.3358	117.8	117.8	0.0587	0.0587	118	
PCB-13 (C12)	19:40	6680174	1.62	1.3358	117.8	117.8	0.0587	0.0587	118	
PCB-15	19:58	3744214	1.60	1.2903	49.8	49.8	0.0492	0.0492	99.65	
S Total Trichlorobiphenyls					1343.6	1343.6	0.3850	0.3850		
D PCB-19L	17:11	1793205	1.06	0.6285	58.4	58.4	0.4439	0.4439	58.42	
* PCB-32L	20:26	4883156	1.08		100.0	100.0				
* PCB-31L	22:41	14772886	1.07		100.0	100.0				
\$ PCB-28L	22:58	11219829	1.05	1.0494	72.4	72.4	0.1129	0.1129	72.37	
D PCB-37L	26:59	9981419	1.09	0.8749	77.2	77.2	0.1354	0.1354	77.22	
PCB-19	17:12	1230185	1.02	1.2809	53.6	53.6	0.0733	0.0733	107	
PCB-18	19:01	4171301	1.08	1.7652	131.8	131.8	0.0532	0.0532	132	
PCB-30 (C18)	19:01	4171301	1.08	1.7652	131.8	131.8	0.0532	0.0532	132	
PCB-17	19:28	1434669	1.04	1.2430	64.4	64.4	0.0756	0.0756	129	
PCB-27	19:42	2004528	1.04	1.8327	61.0	61.0	0.0513	0.0513	122	
PCB-24	19:49	2009083	1.03	1.6777	66.8	66.8	0.0560	0.0560	134	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-16	19:56	1345402	1.10	1.1286	66.5	66.5	0.0832	0.0832	133	
PCB-32	20:27	2332006	1.06	1.8324	71.0	71.0	0.0513	0.0513	142	
PCB-34	21:42	5333266	1.08	1.1277	47.4	47.4	0.5632	0.5632	94.76	
PCB-23	21:51	5358732	1.08	1.0813	49.6	49.6	0.5874	0.5874	99.30	
PCB-26	22:10	10734904	1.07	1.1255	95.6	95.6	0.5644	0.5644	95.56	
PCB-29 (C26)	22:10	10734904	1.07	1.1255	95.6	95.6	0.5644	0.5644	95.56	
PCB-25	22:24	6709042	1.11	1.2728	52.8	52.8	0.4990	0.4990	106	
PCB-31	22:42	6326701	1.09	1.1532	55.0	55.0	0.5508	0.5508	110	
PCB-20	23:00	11534930	1.07	1.1718	98.6	98.6	0.5420	0.5420	98.62	
PCB-28 (C20)	23:00	11534930	1.07	1.1718	98.6	98.6	0.5420	0.5420	98.62	
PCB-21	23:10	11266112	1.06	1.0746	105.0	105.0	0.5911	0.5911	105	M
PCB-33 (C21)	23:10	11266112	1.06	1.0746	105.0	105.0	0.5911	0.5911	105	M
PCB-22	23:38	6298410	1.07	1.1932	52.9	52.9	0.5323	0.5323	106	
PCB-36	25:11	6582178	1.06	1.1071	59.6	59.6	0.5737	0.5737	119	
PCB-39	25:33	5977715	1.05	1.1581	51.7	51.7	0.5484	0.5484	103	
PCB-38	26:07	6125208	1.06	1.0843	56.6	56.6	0.5858	0.5858	113	
PCB-35	26:36	5880243	1.07	1.1297	52.1	52.1	0.5622	0.5622	104	
PCB-37	27:00	5909373	1.06	1.1435	51.8	51.8	0.5554	0.5554	104	
S Total Tetrachlorobiphenyls					2074.9	2074.9	0.0450	0.0450		
D PCB-54L	20:16	2026963	0.82	0.5562	74.6	74.6	0.0540	0.0540	74.63	
* PCB-52L	24:49	6359794	0.80		100.0	100.0				
D PCB-81L	33:43	6625363	0.81	1.2470	83.5	83.5	0.0957	0.0957	83.54	
D PCB-77L	34:17	7227317	0.82	1.3212	86.0	86.0	0.0903	0.0903	86.01	
PCB-54	20:17	1264434	0.75	1.2733	49.0	49.0	0.0498	0.0498	97.98	
PCB-50	22:27	5681013	0.79	0.8578	95.6	95.6	0.0557	0.0557	95.62	
PCB-53 (C50)	22:27	5681013	0.79	0.8578	95.6	95.6	0.0557	0.0557	95.62	
PCB-45	23:10	5186277	0.80	0.8264	90.6	90.6	0.0578	0.0578	90.60	
PCB-51 (C45)	23:10	5186277	0.80	0.8264	90.6	90.6	0.0578	0.0578	90.60	
PCB-46	23:26	2292273	0.81	0.7101	46.6	46.6	0.0673	0.0673	93.21	
PCB-52	24:50	3126494	0.80	0.9194	49.1	49.1	0.0520	0.0520	98.19	
PCB-43	24:58	6620247	0.78	1.0333	92.5	92.5	0.0462	0.0462	92.50	M
PCB-73 (C43)	24:58	6620247	0.78	1.0333	92.5	92.5	0.0462	0.0462	92.50	M
PCB-49	25:15	6776715	0.80	1.0685	91.6	91.6	0.0447	0.0447	91.56	
PCB-69 (C49)	25:15	6776715	0.80	1.0685	91.6	91.6	0.0447	0.0447	91.56	
PCB-48	25:35	2843999	0.81	0.8399	48.9	48.9	0.0569	0.0569	97.78	
PCB-44	25:50	9615585	0.79	0.9731	142.7	142.7	0.0491	0.0491	95.11	
PCB-47 (C44)	25:50	9615585	0.79	0.9731	142.7	142.7	0.0491	0.0491	95.11	
PCB-65 (C44)	25:50	9615585	0.79	0.9731	142.7	142.7	0.0491	0.0491	95.11	
PCB-59	26:09	11372787	0.79	1.1853	138.5	138.5	0.0403	0.0403	92.36	
PCB-62 (C59)	26:09	11372787	0.79	1.1853	138.5	138.5	0.0403	0.0403	92.36	
PCB-75 (C59)	26:09	11372787	0.79	1.1853	138.5	138.5	0.0403	0.0403	92.36	
PCB-42	26:21	2740639	0.79	0.8097	48.9	48.9	0.0590	0.0590	97.74	
PCB-40	26:51	8668116	0.81	0.8863	141.2	141.2	0.0539	0.0539	94.13	M
PCB-41 (C40)	26:51	8668116	0.81	0.8863	141.2	141.2	0.0539	0.0539	94.13	M
PCB-71 (C40)	26:51	8668116	0.81	0.8863	141.2	141.2	0.0539	0.0539	94.13	M
PCB-64	27:03	4042686	0.79	1.1776	49.6	49.6	0.0406	0.0406	99.13	
PCB-72	27:53	4447997	0.79	1.0943	58.7	58.7	0.0437	0.0437	117	
PCB-68	28:10	4298565	0.77	1.2533	49.5	49.5	0.0381	0.0381	99.04	
PCB-57	28:35	4187705	0.80	1.0818	55.9	55.9	0.0442	0.0442	112	
PCB-58	28:50	4763536	0.80	1.3253	51.9	51.9	0.0361	0.0361	104	
PCB-67	29:00	4947747	0.80	1.4230	50.2	50.2	0.0336	0.0336	100	
PCB-63	29:16	3970189	0.79	1.1240	51.0	51.0	0.0425	0.0425	102	
PCB-61	29:37	17311519	0.80	1.2612	198.2	198.2	0.0379	0.0379	99.08	
PCB-70 (C61)	29:37	17311519	0.80	1.2612	198.2	198.2	0.0379	0.0379	99.08	
PCB-74 (C61)	29:37	17311519	0.80	1.2612	198.2	198.2	0.0379	0.0379	99.08	
PCB-76 (C61)	29:37	17311519	0.80	1.2612	198.2	198.2	0.0379	0.0379	99.08	
PCB-66	29:56	4625722	0.81	1.2583	53.1	53.1	0.0380	0.0380	106	
PCB-55	30:05	4754813	0.80	1.3236	51.9	51.9	0.0361	0.0361	104	
PCB-56	30:37	4512314	0.81	1.2334	52.8	52.8	0.0387	0.0387	106	
PCB-60	30:49	3978138	0.79	1.1230	51.1	51.1	0.0426	0.0426	102	
PCB-80	31:13	4521003	0.78	1.3243	49.3	49.3	0.0361	0.0361	98.58	



Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-79	32:45	5522363	0.80	1.4368	55.5	55.5	0.0333	0.0333	111	
PCB-78	33:18	4439263	0.80	1.1618	55.2	55.2	0.0411	0.0411	110	
PCB-81	33:44	3733479	0.80	1.0802	52.2	52.2	0.0446	0.0446	104	
PCB-77	34:18	4219033	0.80	1.0836	53.9	53.9	0.0438	0.0438	108	
S Total Pentachlorobiphenyls					2552.7	2552.7	0.2503	0.2503		
D PCB-104L	25:44	3861229	1.62	1.2161	76.3	76.3	0.0365	0.0365	76.28	
* PCB-101L	31:39	4162303	1.57		100.0	100.0				
\$ PCB-111L	34:19	4492814	1.61	1.3699	78.8	78.8	0.0324	0.0324	78.79	
D PCB-123L	36:16	7931027	1.58	0.9731	80.7	80.7	0.9414	0.9414	80.72	
D PCB-118L	36:36	8347203	1.62	1.0102	81.8	81.8	0.9069	0.9069	81.84	
D PCB-114L	37:07	8078404	1.61	0.9949	80.4	80.4	0.9209	0.9209	80.42	
D PCB-105L	37:47	7875740	1.64	0.9514	82.0	82.0	0.9629	0.9629	81.98	
* PCB-127L	39:15	10096675	1.61		100.0	100.0				
D PCB-126L	40:52	8392962	1.57	0.9439	88.1	88.1	0.9706	0.9706	88.07	
PCB-104	25:46	2107512	1.59	1.0087	54.1	54.1	0.0565	0.0565	108	
PCB-96	26:09	2417895	1.61	1.0940	57.2	57.2	0.0521	0.0521	114	
PCB-103	28:04	1728329	1.60	0.8741	51.2	51.2	0.0652	0.0652	102	
PCB-94	28:18	1517874	1.64	0.7640	51.5	51.5	0.0746	0.0746	103	
PCB-95	28:45	1688799	1.64	0.8033	54.4	54.4	0.0709	0.0709	109	
PCB-93	28:57	3260441	1.58	0.8429	100.2	100.2	0.0676	0.0676	100	
PCB-100 (C93)	28:57	3260441	1.58	0.8429	100.2	100.2	0.0676	0.0676	100	
PCB-98	29:06	3948192	1.64	0.8262	123.8	123.8	0.0690	0.0690	124	M
PCB-102 (C98)	29:06	3948192	1.64	0.8262	123.8	123.8	0.0690	0.0690	124	M
PCB-88	29:36	3374041	1.63	0.8013	109.1	109.1	0.0711	0.0711	109	
PCB-91 (C88)	29:36	3374041	1.63	0.8013	109.1	109.1	0.0711	0.0711	109	
PCB-84	29:50	1482945	1.65	0.7299	52.6	52.6	0.0780	0.0780	105	
PCB-89	30:18	1839677	1.57	0.7798	61.1	61.1	0.0731	0.0731	122	
PCB-121	30:42	2641673	1.61	1.2964	52.8	52.8	0.0439	0.0439	106	
PCB-92	31:05	1661707	1.56	0.8546	50.4	50.4	0.0667	0.0667	101	
PCB-90	31:39	6018887	1.57	0.9550	163.2	163.2	0.0597	0.0597	109	
PCB-101 (C90)	31:39	6018887	1.57	0.9550	163.2	163.2	0.0597	0.0597	109	
PCB-113 (C90)	31:39	6018887	1.57	0.9550	163.2	163.2	0.0597	0.0597	109	
PCB-83	32:14	3857492	1.54	0.8385	119.1	119.1	0.0679	0.0679	119	
PCB-99 (C83)	32:14	3857492	1.54	0.8385	119.1	119.1	0.0679	0.0679	119	
PCB-112	32:22	3006761	1.60	1.4111	55.2	55.2	0.0404	0.0404	110	
PCB-86	32:44	13598555	1.59	1.0473	336.3	336.3	0.0544	0.0544	112	M
PCB-87 (C86)	32:44	13598555	1.59	1.0473	336.3	336.3	0.0544	0.0544	112	M
PCB-97 (C86)	32:44	13598555	1.59	1.0473	336.3	336.3	0.0544	0.0544	112	M
PCB-109 (C86)	32:44	13598555	1.59	1.0473	336.3	336.3	0.0544	0.0544	112	M
PCB-119 (C86)	32:44	13598555	1.59	1.0473	336.3	336.3	0.0544	0.0544	112	M
PCB-125 (C86)	32:44	13598555	1.59	1.0473	336.3	336.3	0.0544	0.0544	112	M
PCB-85	33:28	6508568	1.61	1.0408	162.0	162.0	0.0547	0.0547	108	
PCB-116 (C85)	33:28	6508568	1.61	1.0408	162.0	162.0	0.0547	0.0547	108	
PCB-117 (C85)	33:28	6508568	1.61	1.0408	162.0	162.0	0.0547	0.0547	108	
PCB-110	33:40	5775658	1.61	1.1919	125.5	125.5	0.0478	0.0478	126	
PCB-115 (C110)	33:40	5775658	1.61	1.1919	125.5	125.5	0.0478	0.0478	126	
PCB-82	33:58	1973917	1.61	0.8303	61.6	61.6	0.0686	0.0686	123	
PCB-111	34:20	2614044	1.59	1.2125	55.8	55.8	0.0470	0.0470	112	
PCB-120	34:47	3230385	1.59	1.4762	56.7	56.7	0.0386	0.0386	113	
PCB-108	35:56	9621534	1.59	1.1405	103.8	103.8	0.6333	0.6333	104	
PCB-124 (C108)	35:56	9621534	1.59	1.1405	103.8	103.8	0.6333	0.6333	104	
PCB-107	36:10	5567583	1.61	1.2121	56.5	56.5	0.5959	0.5959	113	
PCB-123	36:18	4331453	1.56	1.0722	50.9	50.9	0.6697	0.6697	102	
PCB-106	36:25	5239460	1.59	1.0839	59.5	59.5	0.6664	0.6664	119	
PCB-118	36:37	4924830	1.61	1.2055	48.9	48.9	0.5743	0.5743	97.88	
PCB-122	36:59	4135608	1.61	0.9567	53.2	53.2	0.7550	0.7550	106	
PCB-114	37:09	4802031	1.60	1.0842	54.8	54.8	0.6485	0.6485	110	
PCB-105	37:48	4832071	1.70	1.1879	51.6	51.6	0.6460	0.6460	103	
PCB-127	39:16	5402695	1.56	1.1394	58.4	58.4	0.6339	0.6339	117	
PCB-126	40:53	5640190	1.56	1.0976	61.2	61.2	0.6698	0.6698	122	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
S Total Hexachlorobiphenyls					2102.5	2102.5	0.4660	0.4660		
D PCB-155L	31:23	3598793	1.29	1.0851	79.7	79.7	0.0491	0.0491	79.68	
* PCB-138L	39:43	6260022	1.29		100.0	100.0				
D PCB-167L	42:43	6594835	1.27	1.2572	83.8	83.8	0.4342	0.4342	83.79	
D PCB-156L	43:52	13333374	1.29	1.2106	175.9	175.9	0.4509	0.4509	87.97	
D PCB-157L (C156L)	43:52	13333374	1.29	1.2106	175.9	175.9	0.4509	0.4509	87.97	
D PCB-169L	47:05	6922846	1.29	1.2439	88.9	88.9	0.4388	0.4388	88.91	
PCB-155	31:25	1656088	1.28	0.9444	48.7	48.7	0.0476	0.0476	97.45	
PCB-152	31:38	2085741	1.27	0.9895	58.6	58.6	0.0455	0.0455	117	
PCB-150	31:48	1844318	1.21	1.0132	50.6	50.6	0.0444	0.0444	101	
PCB-136	32:11	1712133	1.24	1.0116	47.0	47.0	0.0445	0.0445	94.06	
PCB-145	32:27	2037869	1.23	0.9685	58.5	58.5	0.0465	0.0465	117	
PCB-148	33:57	1394327	1.29	0.7603	51.0	51.0	0.0592	0.0592	102	
PCB-135	34:37	2868890	1.22	0.7256	109.9	109.9	0.0620	0.0620	110	
PCB-151 (C135)	34:37	2868890	1.22	0.7256	109.9	109.9	0.0620	0.0620	110	
PCB-154	34:48	1515440	1.23	0.8129	51.8	51.8	0.0553	0.0553	104	
PCB-144	35:07	1392590	1.21	0.7852	49.3	49.3	0.0573	0.0573	98.56	
PCB-147	35:29	5914263	1.25	0.8950	98.4	98.4	0.6640	0.6640	98.44	
PCB-149 (C147)	35:29	5914263	1.25	0.8950	98.4	98.4	0.6640	0.6640	98.44	
PCB-134	35:47	4741950	1.28	0.7967	88.7	88.7	0.7459	0.7459	88.67	
PCB-143 (C134)	35:47	4741950	1.28	0.7967	88.7	88.7	0.7459	0.7459	88.67	
PCB-139	36:04	5642533	1.26	0.8769	95.9	95.9	0.6777	0.6777	95.86	
PCB-140 (C139)	36:04	5642533	1.26	0.8769	95.9	95.9	0.6777	0.6777	95.86	
PCB-131	36:17	2479807	1.26	0.7503	49.2	49.2	0.7920	0.7920	98.47	
PCB-142	36:25	2329961	1.26	0.7507	46.2	46.2	0.7916	0.7916	92.47	
PCB-132	36:45	2558896	1.27	0.7489	50.9	50.9	0.7934	0.7934	102	
PCB-133	37:14	2710171	1.23	0.8096	49.9	49.9	0.7340	0.7340	99.74	
PCB-165	37:38	3247716	1.28	1.0247	47.2	47.2	0.5799	0.5799	94.43	
PCB-146	37:53	3246275	1.20	0.9637	50.2	50.2	0.6166	0.6166	100	
PCB-161	38:01	3864071	1.33	1.1288	51.0	51.0	0.5265	0.5265	102	
PCB-153	38:30	7203771	1.28	1.0938	98.1	98.1	0.5433	0.5433	98.11	
PCB-168 (C153)	38:30	7203771	1.28	1.0938	98.1	98.1	0.5433	0.5433	98.11	
PCB-141	38:42	2755708	1.28	0.8755	46.9	46.9	0.6787	0.6787	93.78	
PCB-130	39:06	2196478	1.27	0.7051	46.4	46.4	0.8428	0.8428	92.81	
PCB-137	39:19	2683200	1.27	0.7767	51.5	51.5	0.7651	0.7651	103	
PCB-164	39:27	3912554	1.27	1.0382	56.1	56.1	0.5724	0.5724	112	
PCB-129	39:45	12248255	1.27	0.9464	192.8	192.8	0.6279	0.6279	96.40	M
PCB-138 (C129)	39:45	12248255	1.27	0.9464	192.8	192.8	0.6279	0.6279	96.40	M
PCB-160 (C129)	39:45	12248255	1.27	0.9464	192.8	192.8	0.6279	0.6279	96.40	M
PCB-163 (C129)	39:45	12248255	1.27	0.9464	192.8	192.8	0.6279	0.6279	96.40	M
PCB-158	40:08	3967904	1.24	1.3110	45.1	45.1	0.4533	0.4533	90.17	
PCB-128	40:58	6939332	1.31	0.9829	105.2	105.2	0.6046	0.6046	105	
PCB-166 (C128)	40:58	6939332	1.31	0.9829	105.2	105.2	0.6046	0.6046	105	
PCB-159	41:58	4506911	1.27	1.3856	48.5	48.5	0.4289	0.4289	96.91	
PCB-162	42:15	4096585	1.26	1.2571	48.5	48.5	0.4727	0.4727	97.09	
PCB-167	42:44	3843372	1.25	1.1159	52.2	52.2	0.4380	0.4380	104	
PCB-156	43:54	7503566	1.27	1.1104	101.4	101.4	0.6738	0.6738	101	
PCB-157 (C156)	43:54	7503566	1.27	1.1104	101.4	101.4	0.6738	0.6738	101	
PCB-169	47:07	4582702	1.29	1.1628	56.9	56.9	0.4274	0.4274	114	
S Total Heptachlorobiphenyls					1290.7	1290.7	0.0477	0.0477		
D PCB-188L	37:06	4710695	1.06	1.3133	76.2	76.2	0.0263	0.0263	76.21	
\$ PCB-178L	40:10	3847808	1.06	1.0313	79.3	79.3	0.0335	0.0335	79.28	
* PCB-180L	45:15	4706246	1.06		100.0	100.0				
D PCB-170L	46:31	3517297	1.06	0.8362	89.4	89.4	0.0414	0.0414	89.38	
D PCB-189L	49:37	10452236	1.06	1.4414	100.5	100.5	0.2917	0.2917	100	
PCB-188	37:08	2634527	1.08	1.1350	49.3	49.3	0.0345	0.0345	98.55	
PCB-179	37:29	2932806	1.07	1.4276	49.9	49.9	0.0317	0.0317	99.87	
PCB-184	38:00	2719703	1.06	1.3672	48.4	48.4	0.0331	0.0331	96.71	
PCB-176	38:22	2545716	1.07	1.2331	50.2	50.2	0.0367	0.0367	100	M
PCB-186	38:49	3071413	1.02	1.4737	50.7	50.7	0.0307	0.0307	101	

Compound	RT (min.)	Area	Ratio	Ical RRF	Amount pg/ul	EMPC pg/ul	Noise EDL	Final EDL	%Rec	Flags
PCB-178	40:12	1964860	1.08	0.8946	53.4	53.4	0.0506	0.0506	107	
PCB-175	40:49	2012907	1.07	0.9524	51.4	51.4	0.0475	0.0475	103	
PCB-187	41:06	2479675	1.04	1.1018	54.7	54.7	0.0411	0.0411	109	
PCB-182	41:18	2438713	1.07	0.9247	64.1	64.1	0.0489	0.0489	128	
PCB-183	41:42	4272525	1.09	0.9825	105.7	105.7	0.0460	0.0460	106	M
PCB-185 (C183)	41:42	4272525	1.09	0.9825	105.7	105.7	0.0460	0.0460	106	M
PCB-174	41:57	2256396	1.07	0.9642	56.9	56.9	0.0469	0.0469	114	
PCB-177	42:23	2227624	1.05	0.9773	55.4	55.4	0.0463	0.0463	111	
PCB-181	42:46	2290734	1.09	0.9505	58.6	58.6	0.0476	0.0476	117	
PCB-171	42:59	3980665	1.05	0.9336	103.6	103.6	0.0484	0.0484	104	
PCB-173 (C171)	42:59	3980665	1.05	0.9336	103.6	103.6	0.0484	0.0484	104	
PCB-172	44:37	2129967	1.03	0.8519	60.8	60.8	0.0531	0.0531	122	
PCB-192	44:54	3176426	1.05	1.3459	57.4	57.4	0.0336	0.0336	115	
PCB-180	45:14	5254022	1.06	1.1676	109.4	109.4	0.0387	0.0387	109	
PCB-193 (C180)	45:14	5254022	1.06	1.1676	109.4	109.4	0.0387	0.0387	109	
PCB-191	45:37	2852835	1.07	1.2891	53.8	53.8	0.0351	0.0351	108	
PCB-170	46:31	2083215	1.05	1.1865	49.9	49.9	0.0451	0.0451	99.84	
PCB-190	47:03	2880610	1.03	1.3322	52.6	52.6	0.0340	0.0340	105	
PCB-189	49:38	5507927	1.04	0.9633	54.7	54.7	0.1715	0.1715	109	
S Total Octachlorobiphenyls					641.3	641.3	0.0765	0.0765		
D PCB-202L	42:29	3698539	0.89	0.9818	80.0	80.0	0.0215	0.0215	80.04	
* PCB-194L	51:43	7218108	0.92		100.0	100.0				
D PCB-205L	52:11	7451689	0.91	1.1786	87.6	87.6	0.0590	0.0590	87.60	
PCB-202	42:30	1960645	0.92	1.0359	51.2	51.2	0.0460	0.0460	102	
PCB-201	43:25	1890260	0.90	0.9754	52.4	52.4	0.0489	0.0489	105	
PCB-204	44:05	2106065	0.91	1.0485	54.3	54.3	0.0455	0.0455	109	
PCB-197	44:19	2007470	0.89	1.1458	47.4	47.4	0.0416	0.0416	94.74	
PCB-200	44:26	1982851	0.94	1.0072	53.2	53.2	0.0474	0.0474	106	
PCB-198	47:13	3421987	0.90	0.8698	106.4	106.4	0.0548	0.0548	106	
PCB-199 (C198)	47:13	3421987	0.90	0.8698	106.4	106.4	0.0548	0.0548	106	
PCB-196	47:53	1553117	0.90	0.7806	53.8	53.8	0.0611	0.0611	108	
PCB-203	48:04	1955152	0.92	0.9292	56.9	56.9	0.0513	0.0513	114	
PCB-195	49:24	3448205	0.89	0.8263	56.0	56.0	0.1706	0.1706	112	
PCB-194	51:45	3933418	0.90	0.9735	54.2	54.2	0.1448	0.1448	108	
PCB-205	52:12	4498733	0.92	1.0878	55.5	55.5	0.1296	0.1296	111	
S Total Nonachlorobiphenyls					145.3	145.3	0.1859	0.1859		
D PCB-208L	49:08	5853791	0.81	0.9576	84.7	84.7	0.2055	0.2055	84.69	
D PCB-206L	53:56	4218568	0.80	0.6947	84.1	84.1	0.2832	0.2832	84.13	
PCB-208	49:10	3217506	0.81	1.1374	48.3	48.3	0.1758	0.1758	96.65	
PCB-207	50:05	3239183	0.80	1.3756	46.8	46.8	0.1702	0.1702	93.51	
PCB-206	53:57	2830219	0.81	1.3346	50.3	50.3	0.2116	0.2116	101	
D PCB-209L	55:33	4195232	0.71	0.6669	87.2	87.2	0.0428	0.0428	87.15	
DCB Decachlorobiphenyl	55:35	2201803	0.70	1.1004	47.7	47.7	0.0592	0.0592	95.39	
S Polychlorinated biphenyls, Total					10875	10875	0.1748	0.1748		

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins Knoxville  
Target Compound Quantitation Worksheet Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d  
Lims ID: LCSD 140-87624/20-B  
Client ID:  
Sample Type: LCSD  
Inject. Date: 28-Jun-2024 00:12:00 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-003  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 01:30:32 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICAL File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\ld2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1639

First Level Reviewer: Q9DB

Date: 28-Jun-2024 01:30:32

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-1L											
200.0795	11:40	11:41	-2	0.728	5534881	2234564	2374	5935	941		
202.0766	11:40	11:41	-2	0.728	1753280	702877	1237	3092	568	3.16(2.66-3.60)	
PCB-3L											
200.0795	13:50	13:49	-1	0.862	7314970	2415112	2374	5935	1017		
202.0766	13:50	13:49	-1	0.862	2276938	742692	1237	3092	600	3.21(2.66-3.60)	
PCB-1											
188.0393	11:41	11:40	-1	1.001	3754977	1537852	2148	5370	716		
190.0363	11:41	11:40	-1	1.001	1178192	477836	925	2312	517	3.19(2.66-3.60)	
PCB-2											
188.0393	13:40	13:40	-1	0.989	4922057	1589456	2148	5370	740		
190.0363	13:40	13:40	-1	0.989	1552921	499496	925	2312	540	3.17(2.66-3.60)	
PCB-3											
188.0393	13:50	13:50	-1	1.001	4892526	1616481	2148	5370	753		
190.0363	13:50	13:50	-1	1.001	1577902	522551	925	2312	565	3.10(2.66-3.60)	
PCB-4L											
234.0406	14:05	14:05	-1	0.879	1644209	524748	534	1335	983		
236.0376	14:05	14:05	-1	0.879	1023618	326407	229	572	1425	1.61(1.33-1.79)	
PCB-9L											
234.0406	16:02	16:04	-1		4568750	1329052	534	1335	2489		
236.0376	16:02	16:04	-1		2827962	816091	229	572	3564	1.62(1.33-1.79)	
PCB-15L											
234.0406	19:58	19:57	-1	1.245	3622014	848481	534	1335	1589		
236.0376	19:58	19:57	-1	1.245	2201747	520795	229	572	2274	1.65(1.33-1.79)	
PCB-4											
222.0003	14:06	14:06	-1	1.001	1142580	374814	147	367	2550		
223.9974	14:06	14:06	-1	1.001	708567	234089	201	502	1165	1.61(1.33-1.79)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-10											
222.0003	14:16	14:16	-2	1.012	1593237	503301	147	367	3424		
223.9974	14:16	14:16	-2	1.012	969037	315930	201	502	1572	1.64(1.33-1.79)	
PCB-9											
222.0003	16:04	16:03	-1	1.140	2205188	643531	147	367	4378		
223.9974	16:04	16:03	-1	1.140	1364094	397490	201	502	1978	1.62(1.33-1.79)	
PCB-7											
222.0003	16:13	16:14	-1	1.151	2045735	582108	147	367	3960		
223.9974	16:13	16:14	-1	1.151	1250870	354208	201	502	1762	1.64(1.33-1.79)	
PCB-6											
222.0003	16:28	16:28	-1	1.169	2366480	673004	147	367	4578		
223.9974	16:28	16:28	-1	1.169	1454500	409119	201	502	2035	1.63(1.33-1.79)	
PCB-5											
222.0003	16:46	16:47	-1	1.190	1768982	496459	147	367	3377		
223.9974	16:46	16:47	-1	1.190	1085692	305581	201	502	1520	1.63(1.33-1.79)	
PCB-8											
222.0003	16:54	16:54	-1	1.200	2508180	669409	147	367	4554		
223.9974	16:54	16:54	-1	1.200	1533278	405060	201	502	2015	1.64(1.33-1.79)	
PCB-14											
222.0003	18:30	18:31	-1	0.927	2133522	526728	147	367	3583		
223.9974	18:30	18:31	-1	0.927	1311698	325430	201	502	1619	1.63(1.33-1.79)	
PCB-11											
222.0003	19:21	19:21	-1	0.970	2335935	544556	147	367	3704		
223.9974	19:21	19:21	-1	0.970	1437963	340172	201	502	1692	1.62(1.33-1.79)	
PCB-12											
222.0003	19:40	19:40	-1	0.985	4127863	679040	147	367	4619		
223.9974	19:40	19:40	-1	0.985	2552311	421998	201	502	2099	1.62(1.33-1.79)	
PCB-13 (C12)											
222.0003	19:40	19:40	-1	0.985	4127863	679040	147	367	4619		
223.9974	19:40	19:40	-1	0.985	2552311	421998	201	502	2099	1.62(1.33-1.79)	
PCB-15											
222.0003	19:58	19:58	-1	1.001	2305304	521605	147	367	3548		
223.9974	19:58	19:58	-1	1.001	1438910	319315	201	502	1589	1.60(1.33-1.79)	
PCB-19L											
268.0016	17:11	17:11	-1	0.841	922380	256078	958	2395	267		
269.9986	17:11	17:11	-1	0.841	870825	238929	369	922	648	1.06(0.88-1.20)	
PCB-32L											
268.0016	20:26	20:27	-1		2531487	615248	958	2395	642		
269.9986	20:25	20:27	-2		2351669	573498	369	922	1554	1.08(0.88-1.20)	
PCB-31L											
268.0016	22:41	22:42	-1		7644133	1745646	1143	2857	1527		
269.9986	22:41	22:42	-1		7128753	1656904	469	1172	3533	1.07(0.88-1.20)	
PCB-28L											
268.0016	22:58	22:58	-1	1.012	5733580	1287124	1143	2857	1126		
269.9986	22:58	22:58	-1	1.012	5486249	1233752	469	1172	2631	1.05(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-37L											
268.0016	26:59	26:58	0	1.189	5198701	1032886	1143	2857	904		
269.9986	26:59	26:58	0	1.189	4782718	957152	469	1172	2041	1.09(0.88-1.20)	
PCB-19											
255.9613	17:12	17:12	-1	1.001	622150	179904	83	207	2168		
257.9584	17:12	17:12	-1	1.001	608035	164441	103	257	1597	1.02(0.88-1.20)	
PCB-18											
255.9613	19:01	19:01	-1	1.106	2163601	366713	83	207	4418		
257.9584	19:01	19:01	-1	1.106	2007700	341170	103	257	3312	1.08(0.88-1.20)	
PCB-30 (C18)											
255.9613	19:01	19:01	-1	1.106	2163601	366713	83	207	4418		
257.9584	19:01	19:01	-1	1.106	2007700	341170	103	257	3312	1.08(0.88-1.20)	
PCB-17											
255.9613	19:28	19:28	-1	1.133	730471	184960	83	207	2228		
257.9584	19:28	19:28	-1	1.133	704198	178360	103	257	1732	1.04(0.88-1.20)	
PCB-27											
255.9613	19:42	19:42	-1	1.146	1023328	265785	83	207	3202		
257.9584	19:41	19:42	-2	1.145	981200	247401	103	257	2402	1.04(0.88-1.20)	
PCB-24											
255.9613	19:49	19:49	-1	1.153	1020851	264869	83	207	3191		
257.9584	19:49	19:49	-1	1.153	988232	251209	103	257	2439	1.03(0.88-1.20)	
PCB-16											
255.9613	19:56	19:57	-2	1.160	705040	171553	83	207	2067		
257.9584	19:56	19:57	-2	1.160	640362	157053	103	257	1525	1.10(0.88-1.20)	
PCB-32											
255.9613	20:27	20:27	-1	1.190	1201852	295007	83	207	3554		
257.9584	20:27	20:27	-1	1.190	1130154	285349	103	257	2770	1.06(0.88-1.20)	
PCB-34											
255.9613	21:42	21:42	-1	1.263	2764002	669048	2638	6595	254		
257.9584	21:42	21:42	-1	1.263	2569264	630178	2418	6045	261	1.08(0.88-1.20)	
PCB-23											
255.9613	21:51	21:50	-1	1.271	2785664	652065	2638	6595	247		
257.9584	21:51	21:50	-1	1.271	2573068	626293	2418	6045	259	1.08(0.88-1.20)	
PCB-26											
255.9613	22:10	22:10	-1	1.290	5539604	1195059	2638	6595	453		
257.9584	22:10	22:10	-1	1.290	5195300	1155299	2418	6045	478	1.07(0.88-1.20)	
PCB-29 (C26)											
255.9613	22:10	22:10	-1	1.290	5539604	1195059	2638	6595	453		
257.9584	22:10	22:10	-1	1.290	5195300	1155299	2418	6045	478	1.07(0.88-1.20)	
PCB-25											
255.9613	22:24	22:24	-1	0.830	3531410	765770	2638	6595	290		
257.9584	22:24	22:24	-1	0.830	3177632	706413	2418	6045	292	1.11(0.88-1.20)	
PCB-31											
255.9613	22:42	22:43	-1	0.841	3297848	741900	2638	6595	281		
257.9584	22:42	22:43	-1	0.841	3028853	712391	2418	6045	295	1.09(0.88-1.20)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-20											
255.9613	23:00	23:01	-1	0.853	5954002	1031836	2638	6595	391		
257.9584	23:00	23:01	-1	0.853	5580928	974786	2418	6045	403	1.07(0.88-1.20)	
PCB-28 (C20)											
255.9613	23:00	23:01	-1	0.853	5954002	1031836	2638	6595	391		
257.9584	23:00	23:01	-1	0.853	5580928	974786	2418	6045	403	1.07(0.88-1.20)	
PCB-21											
255.9613	23:10	23:10	-5	0.859	5793696	712527	2638	6595	270		M
257.9584	23:10	23:10	-5	0.859	5472416	689171	2418	6045	285	1.06(0.88-1.20)	M
PCB-33 (C21)											
255.9613	23:10	23:10	-5	0.859	5793696	712527	2638	6595	270		M
257.9584	23:10	23:10	-5	0.859	5472416	689171	2418	6045	285	1.06(0.88-1.20)	M
PCB-22											
255.9613	23:38	23:39	-1	0.876	3255898	717662	2638	6595	272		
257.9584	23:38	23:39	-1	0.876	3042512	672759	2418	6045	278	1.07(0.88-1.20)	
PCB-36											
255.9613	25:11	25:11	-1	0.933	3387215	676027	2638	6595	256		
257.9584	25:11	25:11	-1	0.933	3194963	654298	2418	6045	271	1.06(0.88-1.20)	
PCB-39											
255.9613	25:33	25:33	0	0.947	3067508	641146	2638	6595	243		
257.9584	25:33	25:33	0	0.947	2910207	600609	2418	6045	248	1.05(0.88-1.20)	
PCB-38											
255.9613	26:07	26:07	-1	0.968	3157257	650868	2638	6595	247		
257.9584	26:07	26:07	0	0.968	2967951	629551	2418	6045	260	1.06(0.88-1.20)	
PCB-35											
255.9613	26:36	26:36	0	0.986	3037120	601408	2638	6595	228		
257.9584	26:36	26:36	0	0.986	2843123	569472	2418	6045	236	1.07(0.88-1.20)	
PCB-37											
255.9613	27:00	27:00	0	1.001	3040359	583638	2638	6595	221		
257.9584	27:00	27:00	0	1.001	2869014	552065	2418	6045	228	1.06(0.88-1.20)	
PCB-54L											
301.9626	20:16	20:16	-1	0.817	911901	234103	96	240	2439		
303.9597	20:16	20:16	-1	0.817	1115062	286219	47	117	6090	0.82(0.65-0.89)	
PCB-52L											
301.9626	24:49	24:49	-1		2833057	643098	402	1005	1600		
303.9597	24:49	24:49	-1		3526737	795425	285	712	2791	0.80(0.65-0.89)	
PCB-81L											
301.9626	33:43	33:42	0	1.359	2974657	589919	402	1005	1467		
303.9597	33:43	33:42	0	1.359	3650706	718507	285	712	2521	0.81(0.65-0.89)	
PCB-77L											
301.9626	34:17	34:16	0	1.382	3251564	595677	402	1005	1482		
303.9597	34:17	34:16	0	1.382	3975753	732408	285	712	2570	0.82(0.65-0.89)	
PCB-54											
289.9224	20:17	20:18	-2	1.000	540916	133154	53	132	2512		
291.9194	20:17	20:18	-1	1.001	723518	177485	79	197	2247	0.75(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-50											
289.9224	22:27	22:27	-1	1.108	2511510	571242	98	245	5829		
291.9194	22:27	22:27	-1	1.108	3169503	730208	154	385	4742	0.79(0.65-0.89)	
PCB-53 (C50)											
289.9224	22:27	22:27	-1	1.108	2511510	571242	98	245	5829		
291.9194	22:27	22:27	-1	1.108	3169503	730208	154	385	4742	0.79(0.65-0.89)	
PCB-45											
289.9224	23:10	23:10	-1	1.144	2312362	306906	98	245	3132		
291.9194	23:10	23:10	-1	1.144	2873915	368027	154	385	2390	0.80(0.65-0.89)	
PCB-51 (C45)											
289.9224	23:10	23:10	-1	1.144	2312362	306906	98	245	3132		
291.9194	23:10	23:10	-1	1.144	2873915	368027	154	385	2390	0.80(0.65-0.89)	
PCB-46											
289.9224	23:26	23:26	-1	1.156	1028061	229501	98	245	2342		
291.9194	23:26	23:26	-1	1.156	1264212	293840	154	385	1908	0.81(0.65-0.89)	
PCB-52											
289.9224	24:50	24:50	-1	1.226	1387011	327662	98	245	3343		
291.9194	24:50	24:50	-1	1.226	1739483	399209	154	385	2592	0.80(0.65-0.89)	
PCB-43											
289.9224	24:58	24:58	-1	1.233	2903335	382802	98	245	3906		M
291.9194	24:58	24:58	-1	1.233	3716912	499515	154	385	3244	0.78(0.65-0.89)	M
PCB-73 (C43)											
289.9224	24:58	24:58	-1	1.233	2903335	382802	98	245	3906		M
291.9194	24:58	24:58	-1	1.233	3716912	499515	154	385	3244	0.78(0.65-0.89)	M
PCB-49											
289.9224	25:15	25:15	-1	1.247	3002819	408204	98	245	4165		
291.9194	25:15	25:15	-1	1.247	3773896	505445	154	385	3282	0.80(0.65-0.89)	
PCB-69 (C49)											
289.9224	25:15	25:15	-1	1.247	3002819	408204	98	245	4165		
291.9194	25:15	25:15	-1	1.247	3773896	505445	154	385	3282	0.80(0.65-0.89)	
PCB-48											
289.9224	25:35	25:35	-1	1.263	1276709	281469	98	245	2872		
291.9194	25:36	25:35	0	1.264	1567290	338114	154	385	2196	0.81(0.65-0.89)	
PCB-44											
289.9224	25:50	25:50	-1	1.275	4253220	826951	98	245	8438		
291.9194	25:50	25:50	-1	1.275	5362365	1029111	154	385	6683	0.79(0.65-0.89)	
PCB-47 (C44)											
289.9224	25:50	25:50	-1	1.275	4253220	826951	98	245	8438		
291.9194	25:50	25:50	-1	1.275	5362365	1029111	154	385	6683	0.79(0.65-0.89)	
PCB-65 (C44)											
289.9224	25:50	25:50	-1	1.275	4253220	826951	98	245	8438		
291.9194	25:50	25:50	-1	1.275	5362365	1029111	154	385	6683	0.79(0.65-0.89)	
PCB-59											
289.9224	26:09	26:09	-1	1.291	5036303	755760	98	245	7712		
291.9194	26:09	26:09	-1	1.291	6336484	951570	154	385	6179	0.79(0.65-0.89)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-62 (C59)											
289.9224	26:09	26:09	-1	1.291	5036303	755760	98	245	7712		
291.9194	26:09	26:09	-1	1.291	6336484	951570	154	385	6179	0.79(0.65-0.89)	
PCB-75 (C59)											
289.9224	26:09	26:09	-1	1.291	5036303	755760	98	245	7712		
291.9194	26:09	26:09	-1	1.291	6336484	951570	154	385	6179	0.79(0.65-0.89)	
PCB-42											
289.9224	26:21	26:20	0	1.301	1208684	254335	98	245	2595		
291.9194	26:21	26:20	0	1.301	1531955	319301	154	385	2073	0.79(0.65-0.89)	
PCB-40											
289.9224	26:51	26:51	0	1.325	3889511	613884	98	245	6264		M
291.9194	26:51	26:51	0	1.325	4778605	738242	154	385	4794	0.81(0.65-0.89)	M
PCB-41 (C40)											
289.9224	26:51	26:51	0	1.325	3889511	613884	98	245	6264		M
291.9194	26:51	26:51	0	1.325	4778605	738242	154	385	4794	0.81(0.65-0.89)	M
PCB-71 (C40)											
289.9224	26:51	26:51	0	1.325	3889511	613884	98	245	6264		M
291.9194	26:51	26:51	0	1.325	4778605	738242	154	385	4794	0.81(0.65-0.89)	M
PCB-64											
289.9224	27:03	27:03	-1	1.335	1780366	374529	98	245	3822		
291.9194	27:03	27:03	-1	1.335	2262320	469074	154	385	3046	0.79(0.65-0.89)	
PCB-72											
289.9224	27:53	27:53	0	0.827	1960727	431415	98	245	4402		
291.9194	27:53	27:53	0	0.827	2487270	532354	154	385	3457	0.79(0.65-0.89)	
PCB-68											
289.9224	28:10	28:11	-1	0.835	1868767	375412	98	245	3831		
291.9194	28:10	28:11	-1	0.835	2429798	472905	154	385	3071	0.77(0.65-0.89)	
PCB-57											
289.9224	28:35	28:36	-1	0.848	1858427	387923	98	245	3958		
291.9194	28:35	28:36	-1	0.848	2329278	494432	154	385	3211	0.80(0.65-0.89)	
PCB-58											
289.9224	28:50	28:51	-1	0.855	2117078	440978	98	245	4500		
291.9194	28:50	28:51	-1	0.855	2646458	550078	154	385	3572	0.80(0.65-0.89)	
PCB-67											
289.9224	29:00	29:00	0	0.860	2200468	442798	98	245	4518		
291.9194	29:00	29:00	0	0.860	2747279	542487	154	385	3523	0.80(0.65-0.89)	
PCB-63											
289.9224	29:16	29:16	0	0.868	1755908	359078	98	245	3664		
291.9194	29:16	29:16	0	0.868	2214281	443638	154	385	2881	0.79(0.65-0.89)	
PCB-61											
289.9224	29:37	29:37	0	0.878	7678884	872039	98	245	8898		
291.9194	29:37	29:37	0	0.878	9632635	1079658	154	385	7011	0.80(0.65-0.89)	
PCB-70 (C61)											
289.9224	29:37	29:37	0	0.878	7678884	872039	98	245	8898		
291.9194	29:37	29:37	0	0.878	9632635	1079658	154	385	7011	0.80(0.65-0.89)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-74 (C61)											
289.9224	29:37	29:37	0	0.878	7678884	872039	98	245	8898		
291.9194	29:37	29:37	0	0.878	9632635	1079658	154	385	7011	0.80(0.65-0.89)	
PCB-76 (C61)											
289.9224	29:37	29:37	0	0.878	7678884	872039	98	245	8898		
291.9194	29:37	29:37	0	0.878	9632635	1079658	154	385	7011	0.80(0.65-0.89)	
PCB-66											
289.9224	29:56	29:56	0	0.888	2065044	399094	98	245	4072		
291.9194	29:55	29:56	-1	0.887	2560678	490256	154	385	3183	0.81(0.65-0.89)	
PCB-55											
289.9224	30:05	30:06	-1	0.892	2113119	417709	98	245	4262		
291.9194	30:06	30:06	0	0.893	2641694	530778	154	385	3447	0.80(0.65-0.89)	
PCB-56											
289.9224	30:37	30:37	0	0.908	2023977	406737	98	245	4150		
291.9194	30:37	30:37	0	0.908	2488337	497173	154	385	3228	0.81(0.65-0.89)	
PCB-60											
289.9224	30:49	30:49	0	0.914	1761866	345328	98	245	3524		
291.9194	30:49	30:49	0	0.914	2216272	425051	154	385	2760	0.79(0.65-0.89)	
PCB-80											
289.9224	31:13	31:13	0	0.926	1986975	402628	98	245	4108		
291.9194	31:13	31:13	0	0.926	2534028	510922	154	385	3318	0.78(0.65-0.89)	
PCB-79											
289.9224	32:45	32:45	0	0.971	2462748	441831	98	245	4508		
291.9194	32:45	32:45	0	0.971	3059615	559110	154	385	3631	0.80(0.65-0.89)	
PCB-78											
289.9224	33:18	33:18	0	0.987	1971791	383665	98	245	3915		
291.9194	33:18	33:18	0	0.987	2467472	466063	154	385	3026	0.80(0.65-0.89)	
PCB-81											
289.9224	33:44	33:44	1	1.001	1655450	302235	98	245	3084		
291.9194	33:44	33:44	1	1.001	2078029	380230	154	385	2469	0.80(0.65-0.89)	
PCB-77											
289.9224	34:18	34:18	0	1.001	1869049	343694	98	245	3507		
291.9194	34:18	34:18	0	1.001	2349984	432470	154	385	2808	0.80(0.65-0.89)	
PCB-104L											
337.9207	25:44	25:45	-1	0.813	2386892	538673	91	227	5919		
339.9178	25:44	25:45	-1	0.813	1474337	321445	59	147	5448	1.62(1.32-1.78)	
PCB-101L											
337.9207	31:39	31:39	0		2544112	511861	91	227	5625		
339.9178	31:39	31:39	0		1618191	332578	59	147	5637	1.57(1.32-1.78)	
PCB-111L											
337.9207	34:19	34:18	1	1.084	2772422	581771	91	227	6393		
339.9178	34:19	34:18	1	1.084	1720392	351587	59	147	5959	1.61(1.32-1.78)	
PCB-123L											
337.9207	36:16	36:16	0	1.146	4858033	969726	4015	10037	242		
339.9178	36:16	36:16	0	1.146	3072994	630363	3160	7900	199	1.58(1.32-1.78)	

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	RT	Adj RT	$\sigma$	REL			Avg	EDL		
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Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-91 (C88)											
325.8804	29:36	29:35	0	1.150	2093177	237582	120	300	1980		
327.8775	29:36	29:35	0	1.150	1280864	142314	76	190	1873	1.63(1.32-1.78)	
PCB-84											
325.8804	29:50	29:50	-1	1.159	923353	185996	120	300	1550		
327.8775	29:50	29:50	-1	1.159	559592	115668	76	190	1522	1.65(1.32-1.78)	
PCB-89											
325.8804	30:18	30:17	0	1.177	1123685	238130	120	300	1984		
327.8775	30:18	30:17	0	1.177	715992	152125	76	190	2002	1.57(1.32-1.78)	
PCB-121											
325.8804	30:42	30:41	0	1.193	1628935	344262	120	300	2869		
327.8775	30:42	30:41	0	1.193	1012738	207685	76	190	2733	1.61(1.32-1.78)	
PCB-92											
325.8804	31:05	31:05	0	0.857	1012387	205561	120	300	1713		
327.8775	31:05	31:05	0	0.857	649320	136476	76	190	1796	1.56(1.32-1.78)	
PCB-90											
325.8804	31:39	31:38	0	1.229	3673259	526385	120	300	4387		
327.8775	31:39	31:38	0	1.229	2345628	336059	76	190	4422	1.57(1.32-1.78)	
PCB-101 (C90)											
325.8804	31:39	31:38	0	1.229	3673259	526385	120	300	4387		
327.8775	31:39	31:38	0	1.229	2345628	336059	76	190	4422	1.57(1.32-1.78)	
PCB-113 (C90)											
325.8804	31:39	31:38	0	1.229	3673259	526385	120	300	4387		
327.8775	31:39	31:38	0	1.229	2345628	336059	76	190	4422	1.57(1.32-1.78)	
PCB-83											
325.8804	32:14	32:13	0	1.252	2336638	296811	120	300	2473		
327.8775	32:14	32:13	0	1.252	1520854	194305	76	190	2557	1.54(1.32-1.78)	
PCB-99 (C83)											
325.8804	32:14	32:13	0	1.252	2336638	296811	120	300	2473		
327.8775	32:14	32:13	0	1.252	1520854	194305	76	190	2557	1.54(1.32-1.78)	
PCB-112											
325.8804	32:22	32:21	0	1.257	1849160	366376	120	300	3053		
327.8775	32:22	32:21	0	1.257	1157601	235953	76	190	3105	1.60(1.32-1.78)	
PCB-86											
325.8804	32:44	32:44	0	1.272	8343589	862752	120	300	7190		M
327.8775	32:44	32:44	0	1.272	5254966	546595	76	190	7192	1.59(1.32-1.78)	M
PCB-87 (C86)											
325.8804	32:44	32:44	0	1.272	8343589	862752	120	300	7190		M
327.8775	32:44	32:44	0	1.272	5254966	546595	76	190	7192	1.59(1.32-1.78)	M
PCB-97 (C86)											
325.8804	32:44	32:44	0	1.272	8343589	862752	120	300	7190		M
327.8775	32:44	32:44	0	1.272	5254966	546595	76	190	7192	1.59(1.32-1.78)	M
PCB-109 (C86)											
325.8804	32:44	32:44	0	1.272	8343589	862752	120	300	7190		M
327.8775	32:44	32:44	0	1.272	5254966	546595	76	190	7192	1.59(1.32-1.78)	M

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-119 (C86)											M
325.8804	32:44	32:44	0	1.272	8343589	862752	120	300	7190		M
327.8775	32:44	32:44	0	1.272	5254966	546595	76	190	7192	1.59(1.32-1.78)	M
PCB-125 (C86)											M
325.8804	32:44	32:44	0	1.272	8343589	862752	120	300	7190		M
327.8775	32:44	32:44	0	1.272	5254966	546595	76	190	7192	1.59(1.32-1.78)	M
PCB-85											
325.8804	33:28	33:27	0	1.300	4017201	486855	120	300	4057		
327.8775	33:28	33:27	0	1.300	2491367	298964	76	190	3934	1.61(1.32-1.78)	
PCB-116 (C85)											
325.8804	33:28	33:27	0	1.300	4017201	486855	120	300	4057		
327.8775	33:28	33:27	0	1.300	2491367	298964	76	190	3934	1.61(1.32-1.78)	
PCB-117 (C85)											
325.8804	33:28	33:27	0	1.300	4017201	486855	120	300	4057		
327.8775	33:28	33:27	0	1.300	2491367	298964	76	190	3934	1.61(1.32-1.78)	
PCB-110											
325.8804	33:40	33:38	1	1.308	3559126	475806	120	300	3965		
327.8775	33:40	33:38	1	1.308	2216532	302318	76	190	3978	1.61(1.32-1.78)	
PCB-115 (C110)											
325.8804	33:40	33:38	1	1.308	3559126	475806	120	300	3965		
327.8775	33:40	33:38	1	1.308	2216532	302318	76	190	3978	1.61(1.32-1.78)	
PCB-82											
325.8804	33:58	33:56	1	1.320	1217711	238239	120	300	1985		
327.8775	33:57	33:56	0	1.319	756206	147381	76	190	1939	1.61(1.32-1.78)	
PCB-111											
325.8804	34:20	34:19	0	1.334	1603856	320893	120	300	2674		
327.8775	34:20	34:19	0	1.334	1010188	199451	76	190	2624	1.59(1.32-1.78)	
PCB-120											
325.8804	34:47	34:46	0	1.352	1982785	400790	120	300	3340		
327.8775	34:47	34:46	0	1.352	1247600	245267	76	190	3227	1.59(1.32-1.78)	
PCB-108											
325.8804	35:56	35:55	0	1.396	5901614	1175191	2774	6935	424		
327.8775	35:56	35:55	0	1.396	3719920	741897	1822	4555	407	1.59(1.32-1.78)	
PCB-124 (C108)											
325.8804	35:56	35:55	0	1.396	5901614	1175191	2774	6935	424		
327.8775	35:56	35:55	0	1.396	3719920	741897	1822	4555	407	1.59(1.32-1.78)	
PCB-107											
325.8804	36:10	36:09	0	1.405	3436358	640010	2774	6935	231		
327.8775	36:10	36:09	0	1.405	2131225	392187	1822	4555	215	1.61(1.32-1.78)	
PCB-123											
325.8804	36:18	36:18	0	1.001	2640899	578676	2774	6935	209		
327.8775	36:18	36:18	0	1.001	1690554	356155	1822	4555	195	1.56(1.32-1.78)	
PCB-106											
325.8804	36:25	36:25	0	1.004	3215187	627227	2774	6935	226		
327.8775	36:25	36:25	0	1.004	2024273	394883	1822	4555	217	1.59(1.32-1.78)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-118											
325.8804	36:37	36:37	0	1.001	3035433	580900	2774	6935	209		
327.8775	36:37	36:37	0	1.001	1889397	350928	1822	4555	193	1.61(1.32-1.78)	
PCB-122											
325.8804	36:59	36:59	0	1.010	2553761	502333	2774	6935	181		
327.8775	36:59	36:59	0	1.010	1581847	307748	1822	4555	169	1.61(1.32-1.78)	
PCB-114											
325.8804	37:09	37:09	0	1.001	2955600	535724	2774	6935	193		
327.8775	37:09	37:09	0	1.001	1846431	340690	1822	4555	187	1.60(1.32-1.78)	
PCB-105											
325.8804	37:48	37:48	0	1.001	3041770	543396	2774	6935	196		
327.8775	37:48	37:48	0	1.001	1790301	332867	1822	4555	183	1.70(1.32-1.78)	
PCB-127											
325.8804	39:16	39:16	0	1.039	3289544	600378	2774	6935	216		
327.8775	39:16	39:16	0	1.039	2113151	396117	1822	4555	217	1.56(1.32-1.78)	
PCB-126											
325.8804	40:53	40:53	1	1.001	3438086	587923	2774	6935	212		
327.8775	40:53	40:53	0	1.000	2202104	378017	1822	4555	207	1.56(1.32-1.78)	
PCB-155L											
371.8817	31:23	31:25	-1	0.790	2023913	422803	131	327	3228		
373.8788	31:23	31:25	-1	0.790	1574880	337391	49	122	6886	1.29(1.05-1.43)	
PCB-138L											
371.8817	39:43	39:42	1		3531086	688341	1468	3670	469		
373.8788	39:42	39:42	0		2728936	540021	1214	3035	445	1.29(1.05-1.43)	
PCB-167L											
371.8817	42:43	42:43	1	1.075	3690307	714158	1468	3670	486		
373.8788	42:43	42:43	1	1.075	2904528	567707	1214	3035	468	1.27(1.05-1.43)	
PCB-156L											
371.8817	43:52	43:53	0	1.105	7505710	943885	1468	3670	643		
373.8788	43:52	43:53	0	1.105	5827664	730721	1214	3035	602	1.29(1.05-1.43)	
PCB-157L (C156L)											
371.8817	43:52	43:53	0	1.105	7505710	943885	1468	3670	643		
373.8788	43:52	43:53	0	1.105	5827664	730721	1214	3035	602	1.29(1.05-1.43)	
PCB-169L											
371.8817	47:05	47:06	0	1.186	3902701	711798	1468	3670	485		
373.8788	47:05	47:06	0	1.186	3020145	548887	1214	3035	452	1.29(1.05-1.43)	
PCB-155											
359.8415	31:25	31:24	0	1.001	929997	194529	82	205	2372		
361.8385	31:25	31:24	0	1.001	726091	158658	55	137	2885	1.28(1.05-1.43)	
PCB-152											
359.8415	31:38	31:38	-1	1.008	1166711	246320	82	205	3004		
361.8385	31:38	31:38	-1	1.008	919030	194184	55	137	3531	1.27(1.05-1.43)	
PCB-150											
359.8415	31:48	31:47	0	1.013	1009403	217034	82	205	2647		
361.8385	31:48	31:47	0	1.013	834915	175144	55	137	3184	1.21(1.05-1.43)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-136											
359.8415	32:11	32:09	1	1.025	946924	189618	82	205	2312		
361.8385	32:10	32:09	0	1.025	765209	160762	55	137	2923	1.24(1.05-1.43)	
PCB-145											
359.8415	32:27	32:27	-1	1.034	1125029	223541	82	205	2726		
361.8385	32:27	32:27	-1	1.034	912840	187985	55	137	3418	1.23(1.05-1.43)	
PCB-148											
359.8415	33:57	33:57	0	1.082	786022	164643	82	205	2008		
361.8385	33:57	33:57	0	1.082	608305	130108	55	137	2366	1.29(1.05-1.43)	
PCB-135											
359.8415	34:37	34:32	4	1.103	1579366	189646	82	205	2313		
361.8385	34:37	34:32	5	1.103	1289524	142204	55	137	2586	1.22(1.05-1.43)	
PCB-151 (C135)											
359.8415	34:37	34:32	4	1.103	1579366	189646	82	205	2313		
361.8385	34:37	34:32	5	1.103	1289524	142204	55	137	2586	1.22(1.05-1.43)	
PCB-154											
359.8415	34:48	34:47	0	1.109	835382	168637	82	205	2057		
361.8385	34:48	34:47	0	1.109	680058	134755	55	137	2450	1.23(1.05-1.43)	
PCB-144											
359.8415	35:07	35:06	0	1.119	761928	153858	82	205	1876		
361.8385	35:06	35:06	-1	1.118	630662	126894	55	137	2307	1.21(1.05-1.43)	
PCB-147											
359.8415	35:29	35:28	0	1.130	3283403	644348	1558	3895	414		
361.8385	35:29	35:28	0	1.130	2630860	517981	948	2370	546	1.25(1.05-1.43)	
PCB-149 (C147)											
359.8415	35:29	35:28	0	1.130	3283403	644348	1558	3895	414		
361.8385	35:29	35:28	0	1.130	2630860	517981	948	2370	546	1.25(1.05-1.43)	
PCB-134											
359.8415	35:47	35:46	0	1.140	2657880	296975	1558	3895	191		
361.8385	35:47	35:46	0	1.140	2084070	223623	948	2370	236	1.28(1.05-1.43)	
PCB-143 (C134)											
359.8415	35:47	35:46	0	1.140	2657880	296975	1558	3895	191		
361.8385	35:47	35:46	0	1.140	2084070	223623	948	2370	236	1.28(1.05-1.43)	
PCB-139											
359.8415	36:04	36:03	0	1.149	3144440	570760	1558	3895	366		
361.8385	36:04	36:03	0	1.149	2498093	446704	948	2370	471	1.26(1.05-1.43)	
PCB-140 (C139)											
359.8415	36:04	36:03	0	1.149	3144440	570760	1558	3895	366		
361.8385	36:04	36:03	0	1.149	2498093	446704	948	2370	471	1.26(1.05-1.43)	
PCB-131											
359.8415	36:17	36:16	0	1.156	1380243	276963	1558	3895	178		
361.8385	36:17	36:16	0	1.156	1099564	217557	948	2370	229	1.26(1.05-1.43)	
PCB-142											
359.8415	36:25	36:25	0	1.160	1298807	263613	1558	3895	169		
361.8385	36:25	36:25	0	1.160	1031154	205803	948	2370	217	1.26(1.05-1.43)	



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-132											
359.8415	36:45	36:44	0	1.171	1430614	286447	1558	3895	184		
361.8385	36:45	36:44	0	1.171	1128282	230044	948	2370	243	1.27(1.05-1.43)	
PCB-133											
359.8415	37:14	37:13	0	1.186	1497287	287590	1558	3895	185		
361.8385	37:14	37:13	0	1.186	1212884	238143	948	2370	251	1.23(1.05-1.43)	
PCB-165											
359.8415	37:38	37:39	0	0.881	1825730	360553	1558	3895	231		
361.8385	37:38	37:39	0	0.881	1421986	290202	948	2370	306	1.28(1.05-1.43)	
PCB-146											
359.8415	37:53	37:53	1	0.887	1768266	366183	1558	3895	235		
361.8385	37:53	37:53	1	0.887	1478009	288768	948	2370	305	1.20(1.05-1.43)	
PCB-161											
359.8415	38:01	38:01	1	0.890	2205331	416589	1558	3895	267		
361.8385	38:01	38:01	1	0.890	1658740	331809	948	2370	350	1.33(1.05-1.43)	
PCB-153											
359.8415	38:30	38:31	-1	0.901	4038461	598777	1558	3895	384		
361.8385	38:30	38:31	-1	0.901	3165310	478992	948	2370	505	1.28(1.05-1.43)	
PCB-168 (C153)											
359.8415	38:30	38:31	-1	0.901	4038461	598777	1558	3895	384		
361.8385	38:30	38:31	-1	0.901	3165310	478992	948	2370	505	1.28(1.05-1.43)	
PCB-141											
359.8415	38:42	38:42	1	0.906	1547937	286603	1558	3895	184		
361.8385	38:42	38:42	1	0.906	1207771	221192	948	2370	233	1.28(1.05-1.43)	
PCB-130											
359.8415	39:06	39:07	0	0.915	1228696	233800	1558	3895	150		
361.8385	39:06	39:07	0	0.915	967782	191910	948	2370	202	1.27(1.05-1.43)	
PCB-137											
359.8415	39:19	39:19	0	0.920	1503400	297277	1558	3895	191		
361.8385	39:19	39:19	0	0.920	1179800	227435	948	2370	240	1.27(1.05-1.43)	
PCB-164											
359.8415	39:27	39:27	0	0.923	2191716	428378	1558	3895	275		
361.8385	39:27	39:27	0	0.923	1720838	339305	948	2370	358	1.27(1.05-1.43)	
PCB-129											
359.8415	39:45	39:45	0	0.930	6856764	762153	1558	3895	489		M
361.8385	39:45	39:45	0	0.930	5391491	616822	948	2370	651	1.27(1.05-1.43)	M
PCB-138 (C129)											
359.8415	39:45	39:45	0	0.930	6856764	762153	1558	3895	489		M
361.8385	39:45	39:45	0	0.930	5391491	616822	948	2370	651	1.27(1.05-1.43)	M
PCB-160 (C129)											
359.8415	39:45	39:45	0	0.930	6856764	762153	1558	3895	489		M
361.8385	39:45	39:45	0	0.930	5391491	616822	948	2370	651	1.27(1.05-1.43)	M
PCB-163 (C129)											
359.8415	39:45	39:45	0	0.930	6856764	762153	1558	3895	489		M
361.8385	39:45	39:45	0	0.930	5391491	616822	948	2370	651	1.27(1.05-1.43)	M



Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-158											
359.8415	40:08	40:08	1	0.939	2197568	401394	1558	3895	258		
361.8385	40:08	40:08	1	0.939	1770336	330772	948	2370	349	1.24(1.05-1.43)	
PCB-128											
359.8415	40:58	40:59	0	0.959	3941012	540206	1558	3895	347		
361.8385	40:58	40:59	0	0.959	2998320	423608	948	2370	447	1.31(1.05-1.43)	
PCB-166 (C128)											
359.8415	40:58	40:59	0	0.959	3941012	540206	1558	3895	347		
361.8385	40:58	40:59	0	0.959	2998320	423608	948	2370	447	1.31(1.05-1.43)	
PCB-159											
359.8415	41:58	41:59	0	0.982	2518494	493274	1558	3895	317		
361.8385	41:58	41:59	0	0.982	1988417	389605	948	2370	411	1.27(1.05-1.43)	
PCB-162											
359.8415	42:15	42:16	0	0.989	2285231	411586	1558	3895	264		
361.8385	42:15	42:16	0	0.989	1811354	327831	948	2370	346	1.26(1.05-1.43)	
PCB-167											
359.8415	42:44	42:44	0	1.000	2135092	404151	1558	3895	259		
361.8385	42:44	42:44	0	1.000	1708280	316802	948	2370	334	1.25(1.05-1.43)	
PCB-156											
359.8415	43:54	43:54	0	1.001	4203424	543242	1558	3895	349		
361.8385	43:54	43:54	0	1.001	3300142	424123	948	2370	447	1.27(1.05-1.43)	
PCB-157 (C156)											
359.8415	43:54	43:54	0	1.001	4203424	543242	1558	3895	349		
361.8385	43:54	43:54	0	1.001	3300142	424123	948	2370	447	1.27(1.05-1.43)	
PCB-169											
359.8415	47:07	47:06	1	1.001	2583889	456124	1558	3895	293		
361.8385	47:07	47:06	1	1.001	1998813	360116	948	2370	380	1.29(1.05-1.43)	
PCB-188L											
405.8428	37:06	37:07	0	0.820	2424419	475996	60	150	7933		
407.8398	37:06	37:07	0	0.820	2286276	460740	65	162	7088	1.06(0.89-1.21)	
PCB-178L											
405.8428	40:10	40:11	0	0.888	1984104	388312	60	150	6472		
407.8398	40:10	40:11	0	0.888	1863704	369757	65	162	5689	1.06(0.89-1.21)	
PCB-180L											
405.8428	45:15	45:14	1		2424239	461175	60	150	7686		
407.8398	45:15	45:14	1		2282007	440751	65	162	6781	1.06(0.89-1.21)	
PCB-170L											
405.8428	46:31	46:31	1	1.028	1807420	349732	60	150	5829		
407.8398	46:31	46:31	1	1.028	1709877	336271	65	162	5173	1.06(0.89-1.21)	
PCB-189L											
405.8428	49:37	49:38	0	1.096	5380879	1024016	1456	3640	703		
407.8398	49:37	49:38	0	1.096	5071357	944348	824	2060	1146	1.06(0.89-1.21)	
PCB-188											
393.8025	37:08	37:08	0	1.001	1368254	275100	56	140	4913		
395.7995	37:08	37:08	0	1.001	1266273	248084	91	227	2726	1.08(0.89-1.21)	

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

	Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-179												
393.8025	37:29	37:29	0	1.010	1512990	300410	56	140	5364			
395.7995	37:29	37:29	0	1.010	1419816	284214	91	227	3123	1.07(0.89-1.21)		
PCB-184												
393.8025	38:00	37:59	1	1.024	1402526	270771	56	140	4835			
395.7995	38:00	37:59	1	1.024	1317177	253189	91	227	2782	1.06(0.89-1.21)		
PCB-176												
393.8025	38:22	38:22	0	1.034	1315922	258035	56	140	4608			M
395.7995	38:22	38:22	0	1.034	1229794	239119	91	227	2628	1.07(0.89-1.21)		M
PCB-186												
393.8025	38:49	38:49	0	1.046	1553823	298507	56	140	5330			
395.7995	38:49	38:49	0	1.046	1517590	293318	91	227	3223	1.02(0.89-1.21)		
PCB-178												
393.8025	40:12	40:12	0	1.083	1020937	205410	56	140	3668			
395.7995	40:12	40:12	0	1.083	943923	187083	91	227	2056	1.08(0.89-1.21)		
PCB-175												
393.8025	40:49	40:49	1	1.100	1039379	210734	56	140	3763			
395.7995	40:49	40:49	1	1.100	973528	198493	91	227	2181	1.07(0.89-1.21)		
PCB-187												
393.8025	41:06	41:05	1	1.108	1261631	245852	56	140	4390			
395.7995	41:06	41:05	1	1.108	1218044	240220	91	227	2640	1.04(0.89-1.21)		
PCB-182												
393.8025	41:18	41:17	1	1.113	1259546	248811	56	140	4443			
395.7995	41:18	41:17	1	1.113	1179167	230646	91	227	2535	1.07(0.89-1.21)		
PCB-183												
393.8025	41:42	41:41	1	1.124	2225581	240614	56	140	4297			M
395.7995	41:41	41:41	0	1.124	2046944	218436	91	227	2400	1.09(0.89-1.21)		M
PCB-185 (C183)												
393.8025	41:42	41:41	1	1.124	2225581	240614	56	140	4297			M
395.7995	41:41	41:41	0	1.124	2046944	218436	91	227	2400	1.09(0.89-1.21)		M
PCB-174												
393.8025	41:57	41:57	0	1.131	1165996	228293	56	140	4077			
395.7995	41:57	41:57	0	1.131	1090400	213287	91	227	2344	1.07(0.89-1.21)		
PCB-177												
393.8025	42:23	42:23	0	1.142	1140040	228875	56	140	4087			
395.7995	42:23	42:23	0	1.142	1087584	208368	91	227	2290	1.05(0.89-1.21)		
PCB-181												
393.8025	42:46	42:46	0	1.153	1193071	232785	56	140	4157			
395.7995	42:46	42:46	0	1.153	1097663	219411	91	227	2411	1.09(0.89-1.21)		
PCB-171												
393.8025	42:59	42:59	0	1.159	2040903	358267	56	140	6398			
395.7995	42:59	42:59	0	1.159	1939762	341613	91	227	3754	1.05(0.89-1.21)		
PCB-173 (C171)												
393.8025	42:59	42:59	0	1.159	2040903	358267	56	140	6398			
395.7995	42:59	42:59	0	1.159	1939762	341613	91	227	3754	1.05(0.89-1.21)		

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-172											
393.8025	44:37	44:37	0	0.899	1082650	209584	56	140	3743		
395.7995	44:37	44:37	0	0.899	1047317	202177	91	227	2222	1.03(0.89-1.21)	
PCB-192											
393.8025	44:54	44:54	0	0.905	1624760	311993	56	140	5571		
395.7995	44:54	44:54	0	0.905	1551666	295198	91	227	3244	1.05(0.89-1.21)	
PCB-180											
393.8025	45:14	45:14	0	0.912	2709253	375598	56	140	6707		
395.7995	45:14	45:14	0	0.912	2544769	348242	91	227	3827	1.06(0.89-1.21)	
PCB-193 (C180)											
393.8025	45:14	45:14	0	0.912	2709253	375598	56	140	6707		
395.7995	45:14	45:14	0	0.912	2544769	348242	91	227	3827	1.06(0.89-1.21)	
PCB-191											
393.8025	45:37	45:37	0	0.920	1472450	283803	56	140	5068		
395.7995	45:37	45:37	0	0.920	1380385	259230	91	227	2849	1.07(0.89-1.21)	
PCB-170											
393.8025	46:31	46:31	0	0.938	1069227	203717	56	140	3638		
395.7995	46:32	46:31	1	0.938	1013988	196000	91	227	2154	1.05(0.89-1.21)	
PCB-190											
393.8025	47:03	47:02	1	0.948	1458129	271383	56	140	4846		
395.7995	47:03	47:02	1	0.948	1422481	269169	91	227	2958	1.03(0.89-1.21)	
PCB-189											
393.8025	49:38	49:37	1	1.001	2814170	526887	630	1575	836		
395.7995	49:38	49:37	1	1.001	2693757	506047	671	1677	754	1.04(0.89-1.21)	
PCB-202L											
439.8038	42:29	42:29	0	0.821	1738314	336892	54	135	6239		
441.8008	42:29	42:29	0	0.821	1960225	380089	22	55	17277	0.89(0.76-1.02)	
PCB-194L											
439.8038	51:43	51:43	1		3459483	658984	180	450	3661		
441.8008	51:43	51:43	1		3758625	696506	197	492	3536	0.92(0.76-1.02)	
PCB-205L											
439.8038	52:11	52:12	0	1.009	3555656	666246	180	450	3701		
441.8008	52:11	52:12	0	1.009	3896033	728882	197	492	3700	0.91(0.76-1.02)	
PCB-202											
427.7635	42:30	42:30	0	1.001	940493	183704	81	202	2268		
429.7606	42:30	42:30	0	1.001	1020152	204619	56	140	3654	0.92(0.76-1.02)	
PCB-201											
427.7635	43:25	43:25	1	1.022	895191	171861	81	202	2122		
429.7606	43:25	43:25	1	1.022	995069	197247	56	140	3522	0.90(0.76-1.02)	
PCB-204											
427.7635	44:05	44:05	0	1.038	1002297	192354	81	202	2375		
429.7606	44:05	44:05	0	1.038	1103768	221166	56	140	3949	0.91(0.76-1.02)	
PCB-197											
427.7635	44:19	44:18	1	1.043	945753	179379	81	202	2215		
429.7606	44:19	44:18	1	1.043	1061717	206602	56	140	3689	0.89(0.76-1.02)	

Signal	RT (min.)	Adj RT (min.)	Sec.	REL RT	Area	Height	Avg Noise	EDL Height	S/N	Ratio(Limits)	Flags
PCB-200											
427.7635	44:26	44:26	0	1.046	962284	181853	81	202	2245		
429.7606	44:26	44:26	0	1.046	1020567	192331	56	140	3434	0.94(0.76-1.02)	
PCB-198											
427.7635	47:13	47:12	1	1.112	1618030	204137	81	202	2520		
429.7606	47:13	47:12	1	1.112	1803957	223537	56	140	3992	0.90(0.76-1.02)	
PCB-199 (C198)											
427.7635	47:13	47:12	1	1.112	1618030	204137	81	202	2520		
429.7606	47:13	47:12	1	1.112	1803957	223537	56	140	3992	0.90(0.76-1.02)	
PCB-196											
427.7635	47:53	47:53	0	0.918	735801	141821	81	202	1751		
429.7606	47:53	47:53	0	0.918	817316	158769	56	140	2835	0.90(0.76-1.02)	
PCB-203											
427.7635	48:04	48:04	0	0.921	936386	176349	81	202	2177		
429.7606	48:04	48:04	0	0.921	1018766	194919	56	140	3481	0.92(0.76-1.02)	
PCB-195											
427.7635	49:24	49:24	1	0.947	1622210	303433	425	1062	714		
429.7606	49:24	49:24	0	0.947	1825995	338504	362	905	935	0.89(0.76-1.02)	
PCB-194											
427.7635	51:45	51:44	1	0.992	1863958	355268	425	1062	836		
429.7606	51:45	51:44	1	0.992	2069460	393235	362	905	1086	0.90(0.76-1.02)	
PCB-205											
427.7635	52:12	52:12	0	1.000	2158670	390948	425	1062	920		
429.7606	52:12	52:12	0	1.000	2340063	427567	362	905	1181	0.92(0.76-1.02)	
PCB-208L											
473.7648	49:08	49:09	0	0.950	2611415	491815	484	1210	1016		
475.7619	49:08	49:09	0	0.950	3242376	611786	583	1457	1049	0.81(0.65-0.89)	
PCB-206L											
473.7648	53:56	53:57	0	1.043	1869042	344732	484	1210	712		
475.7619	53:56	53:57	0	1.043	2349526	436678	583	1457	749	0.80(0.65-0.89)	
PCB-208											
461.7246	49:10	49:09	1	1.001	1436216	272207	306	765	890		
463.7216	49:10	49:09	1	1.001	1781290	350109	577	1442	607	0.81(0.65-0.89)	
PCB-207											
461.7246	50:05	50:05	0	1.019	1434864	272260	306	765	890		
463.7216	50:05	50:05	0	1.019	1804319	346183	577	1442	600	0.80(0.65-0.89)	
PCB-206											
461.7246	53:57	53:57	0	1.000	1269975	234083	306	765	765		
463.7216	53:57	53:57	0	1.000	1560244	288363	577	1442	500	0.81(0.65-0.89)	
PCB-209L											
507.7258	55:33	55:34	0	1.074	1742812	316681	60	150	5278		
509.7229	55:33	55:34	0	1.074	2452420	438513	95	237	4616	0.71(0.59-0.79)	
DCB Decachlorobiphenyl											
495.6856	55:35	55:35	0	1.000	908813	162057	127	317	1276		
497.6826	55:35	55:35	0	1.000	1292990	229497	70	175	3279	0.70(0.59-0.79)	

QC Flag Legend  
Processing Flags



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

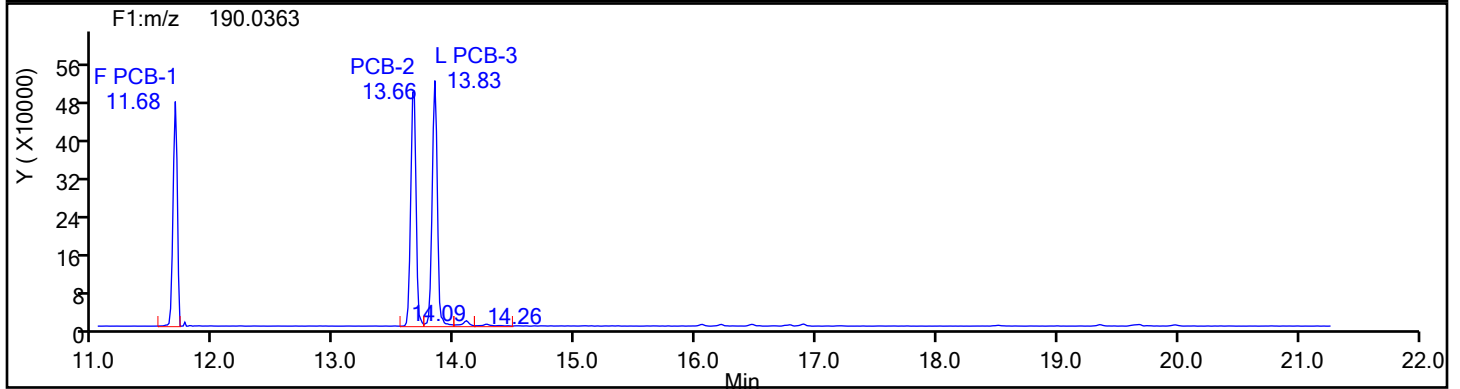
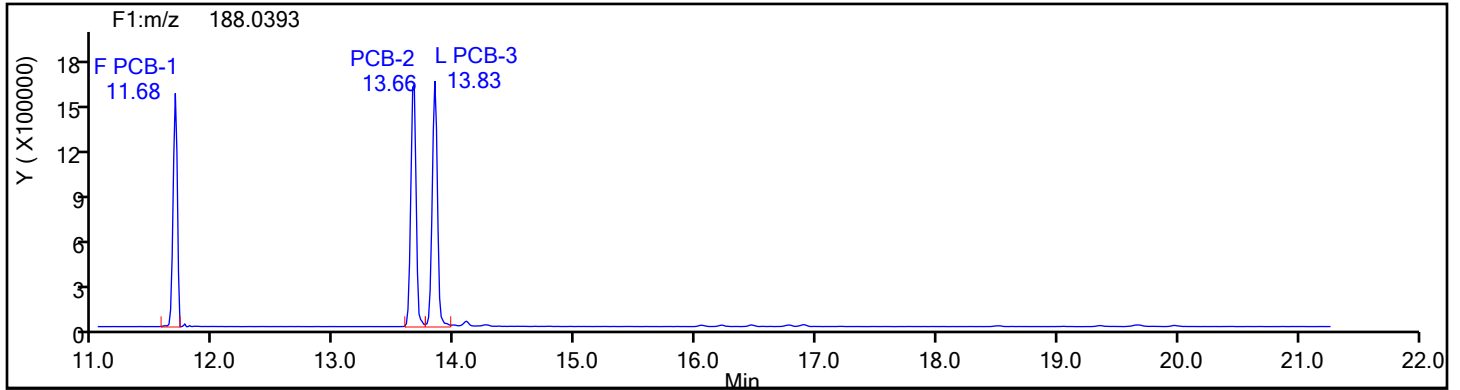
Worklist#: 88205

Sample Line#: 3

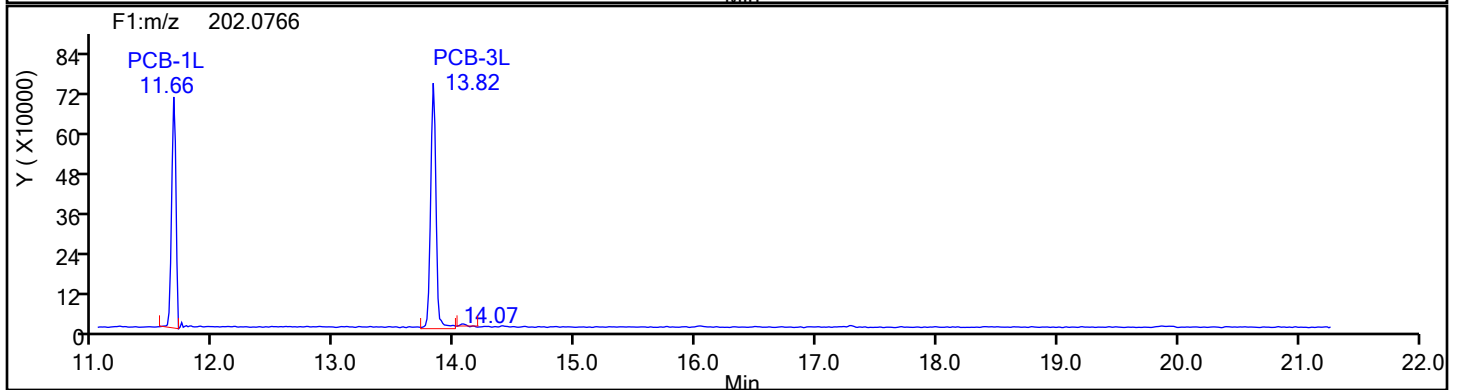
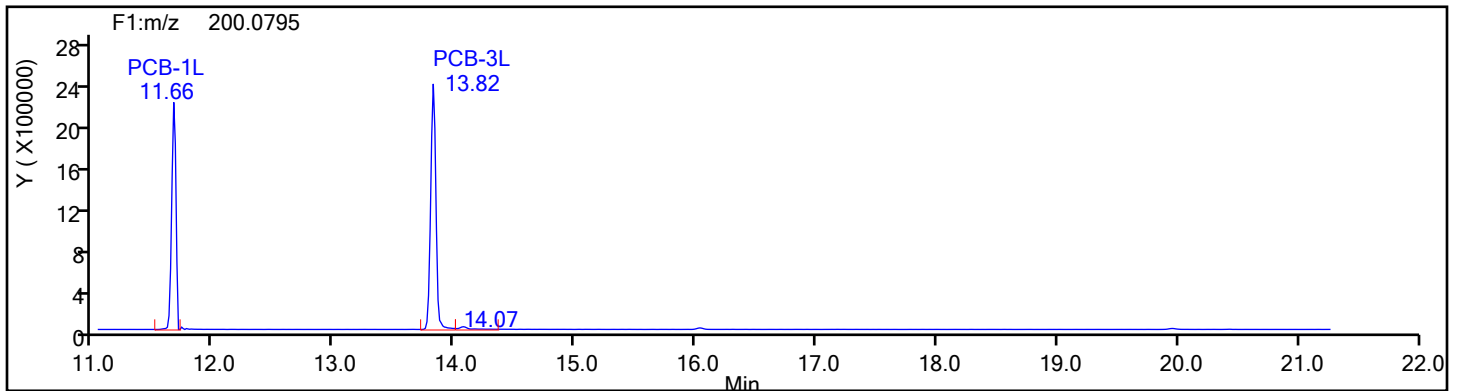
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

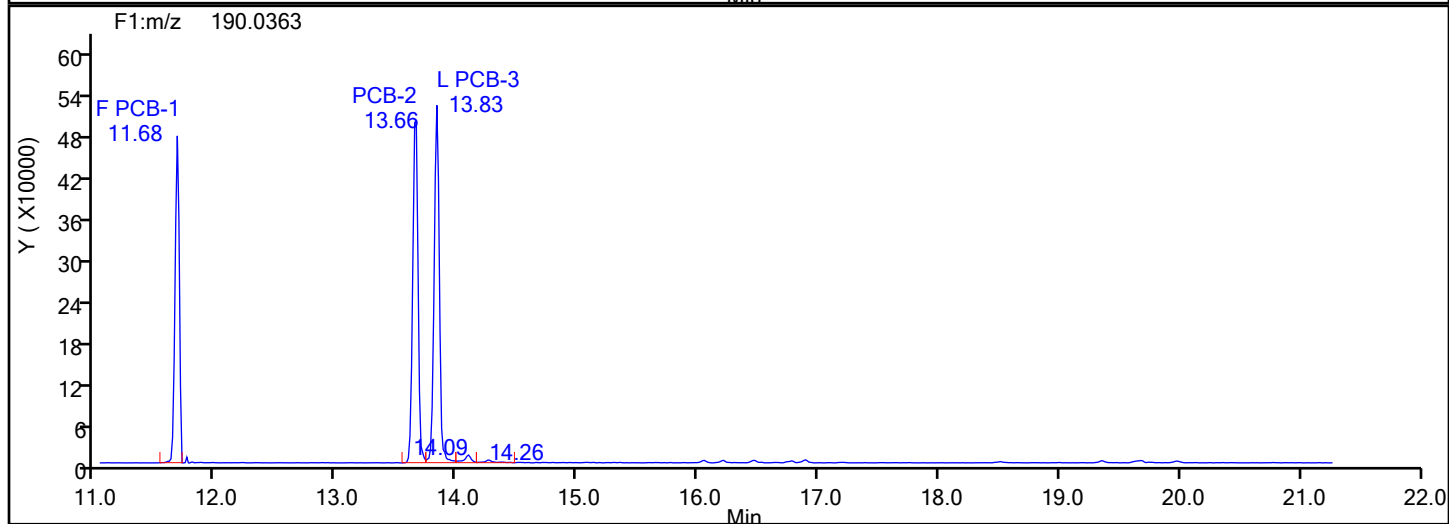
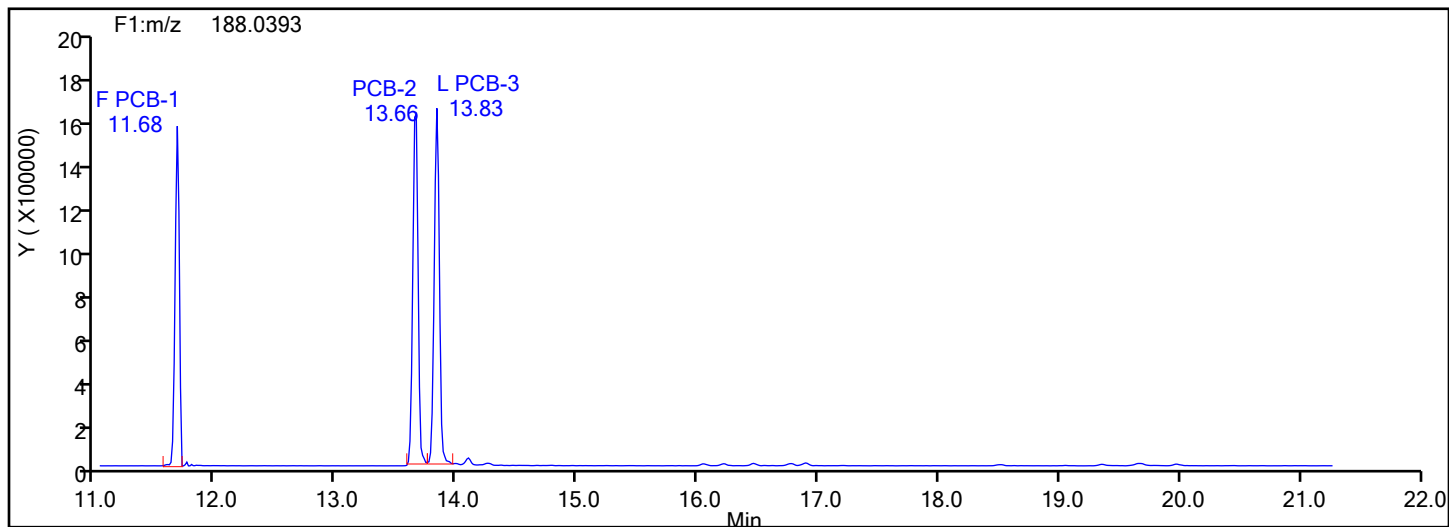
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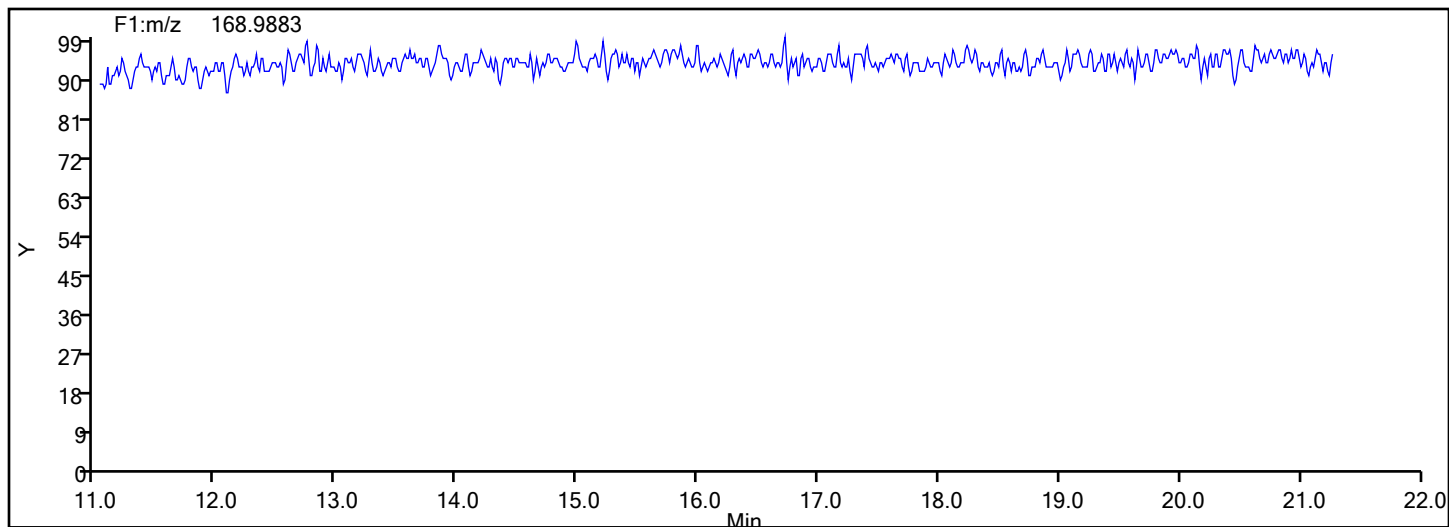
Column Type: SPB-Octyl

Column Dia: 0.25 mm

MoPCB F1



MoPCB F1 Lock Mass



## Eurofins Knoxville

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Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

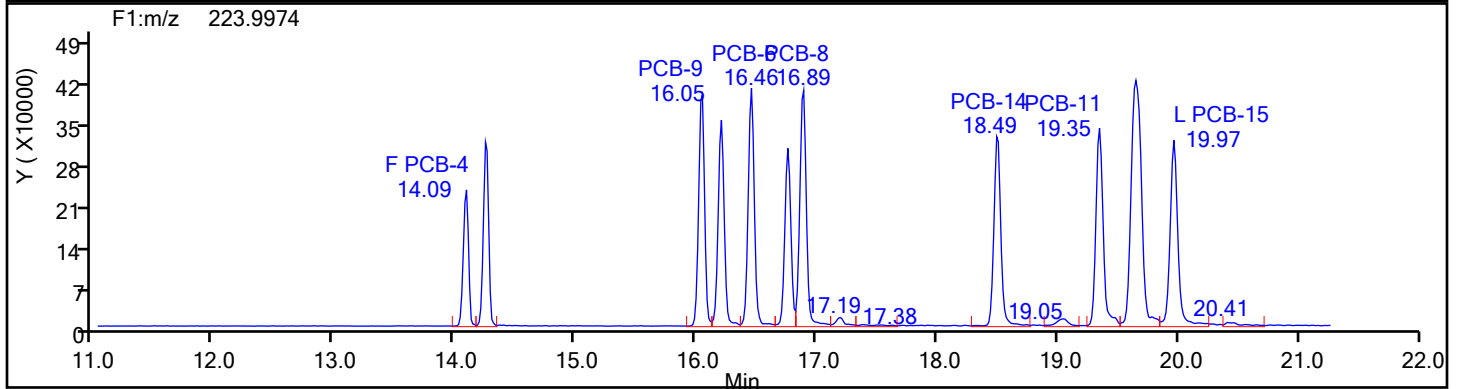
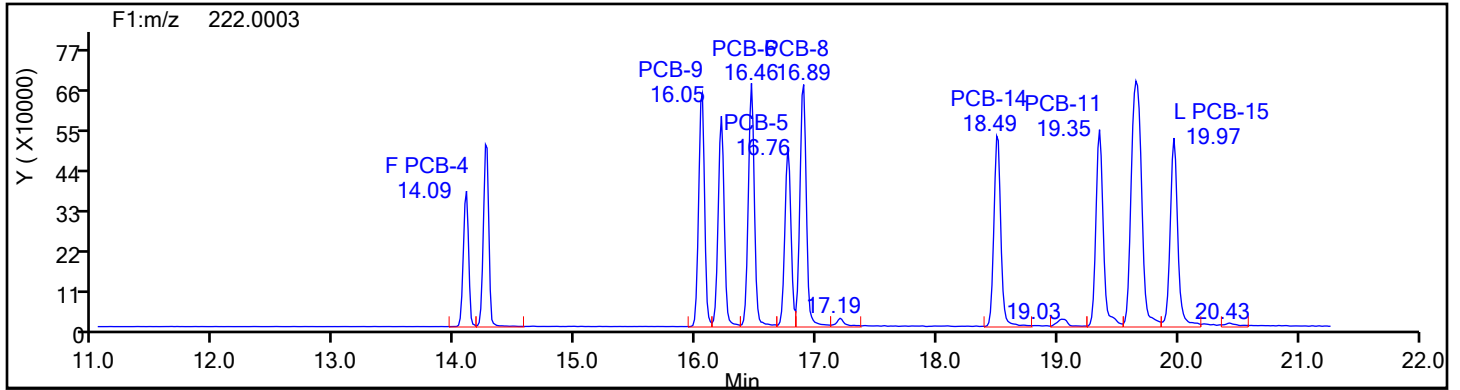
Worklist#: 88205

Sample Line#: 3

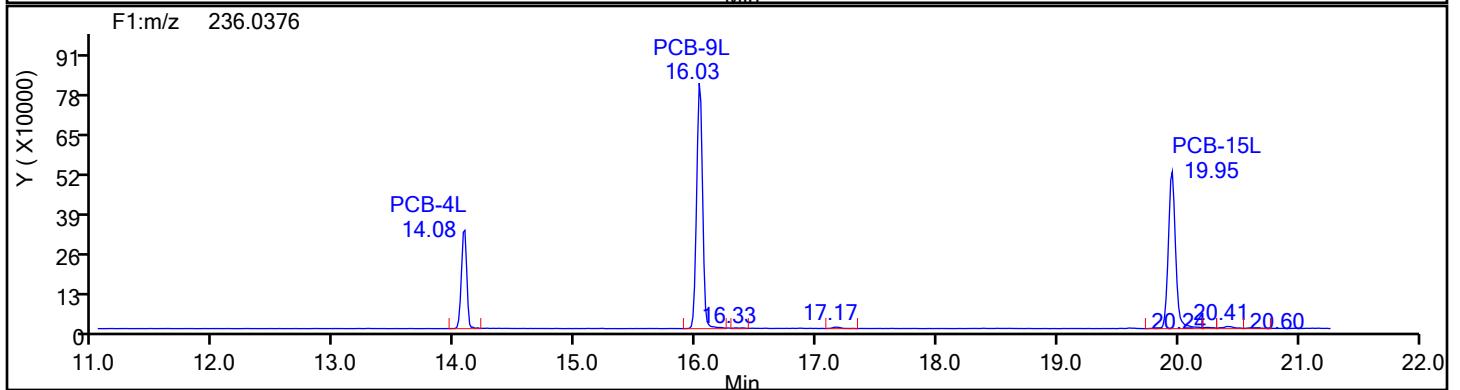
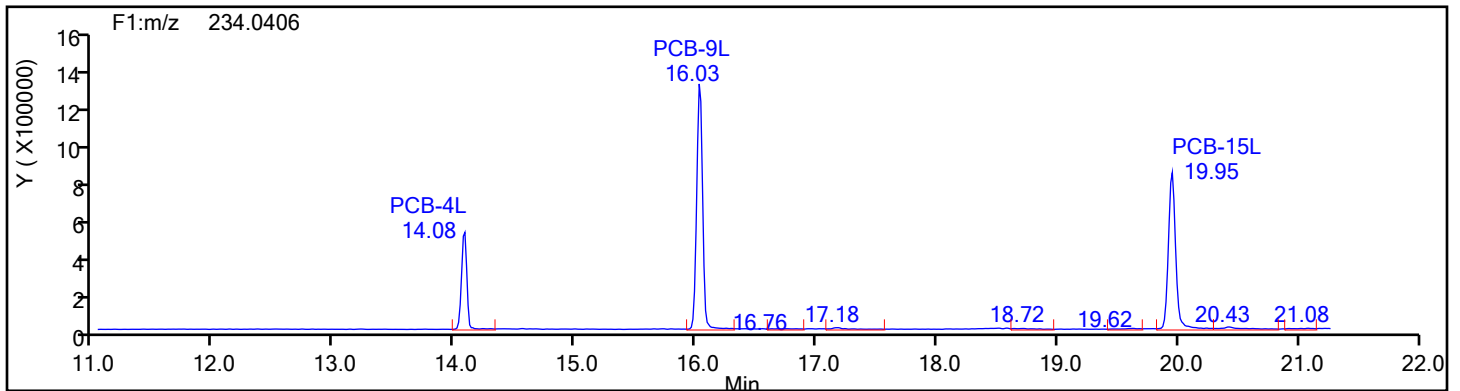
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

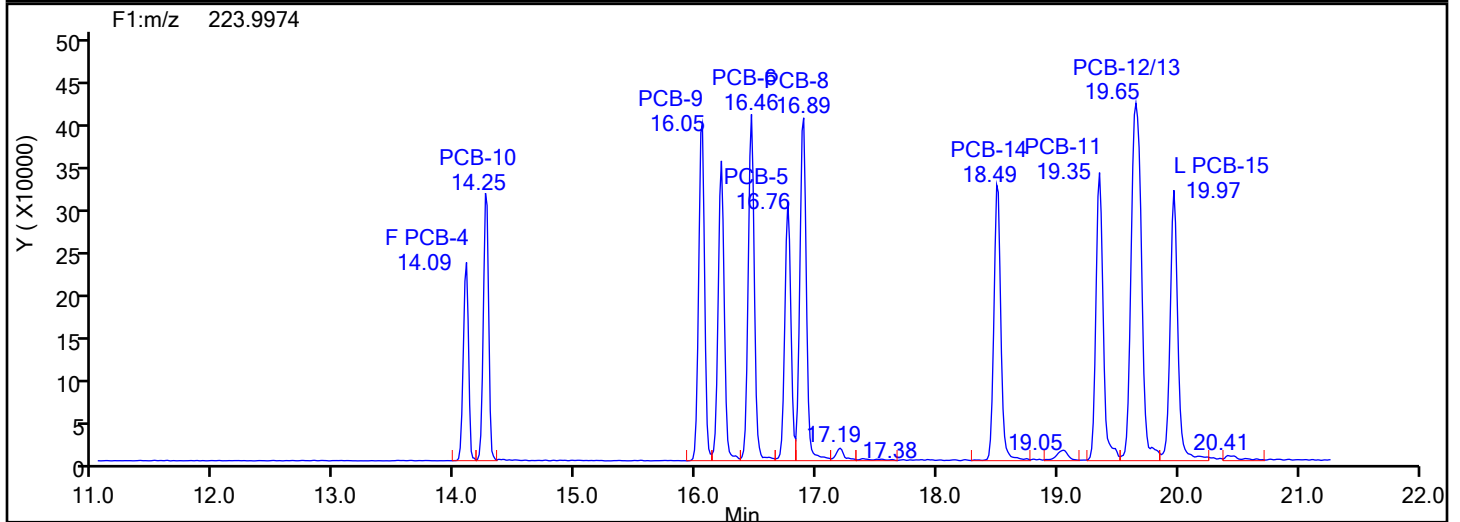
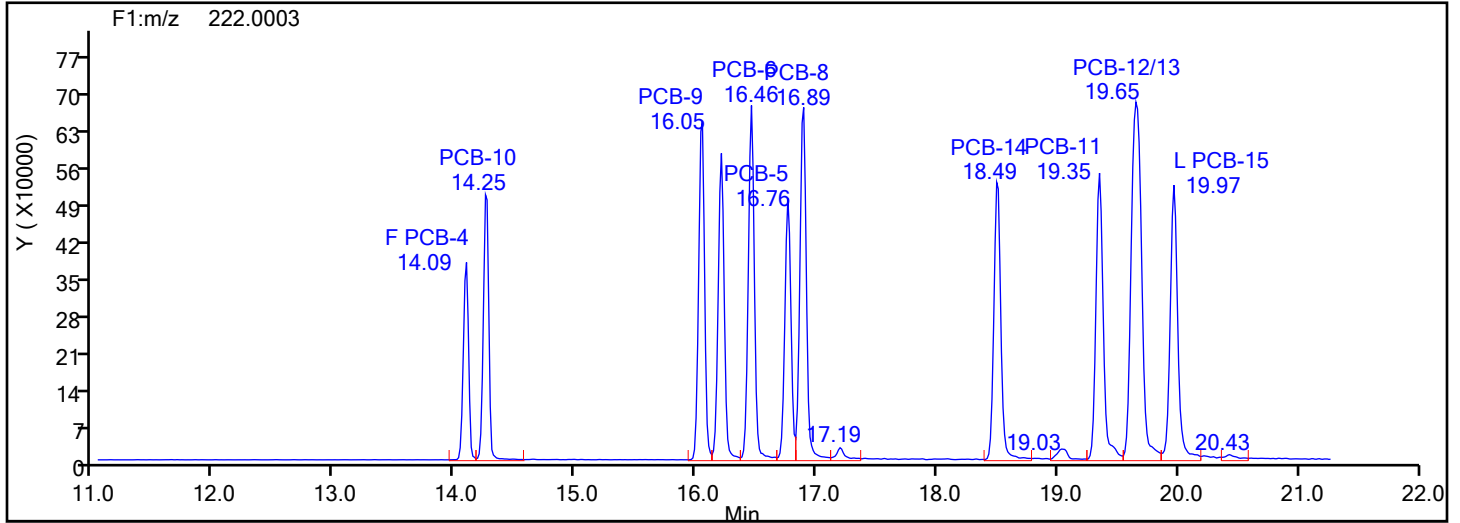
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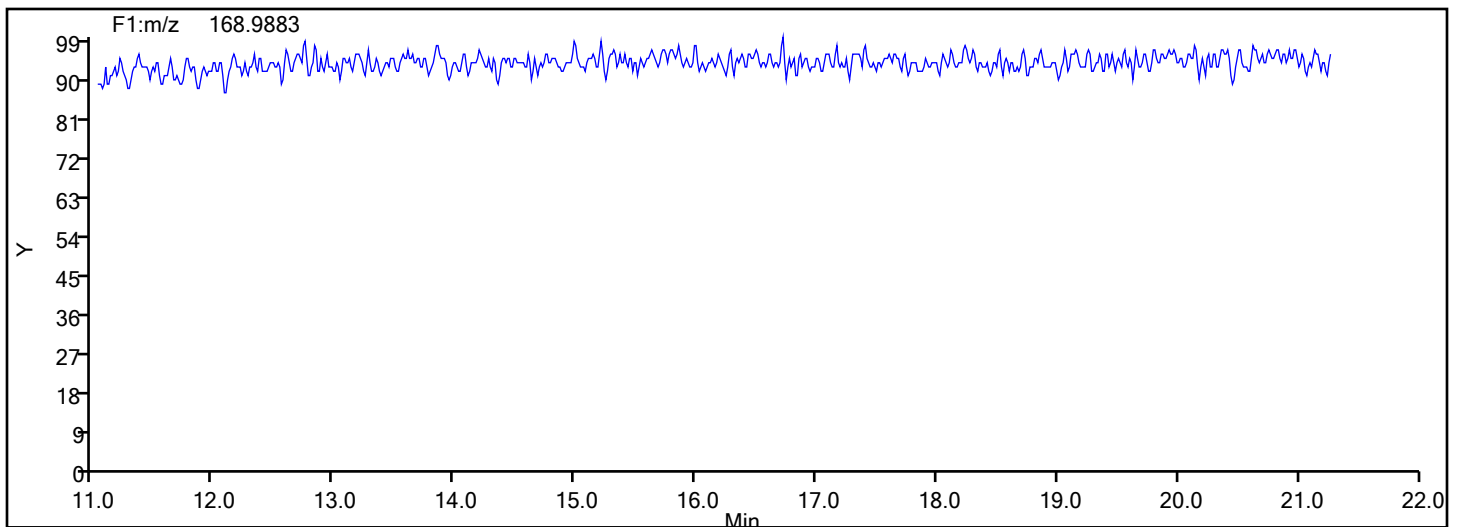
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DiPCB F1



DiPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

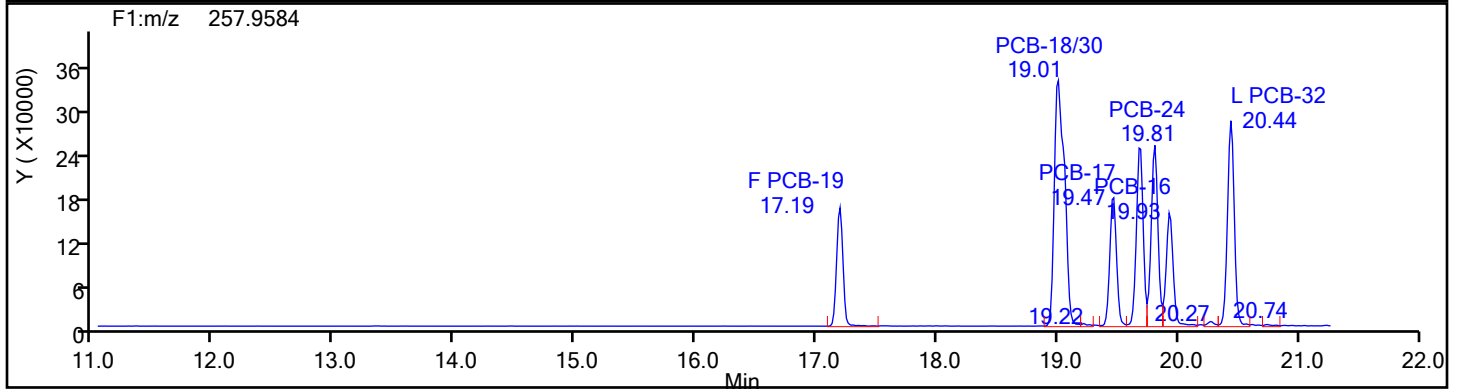
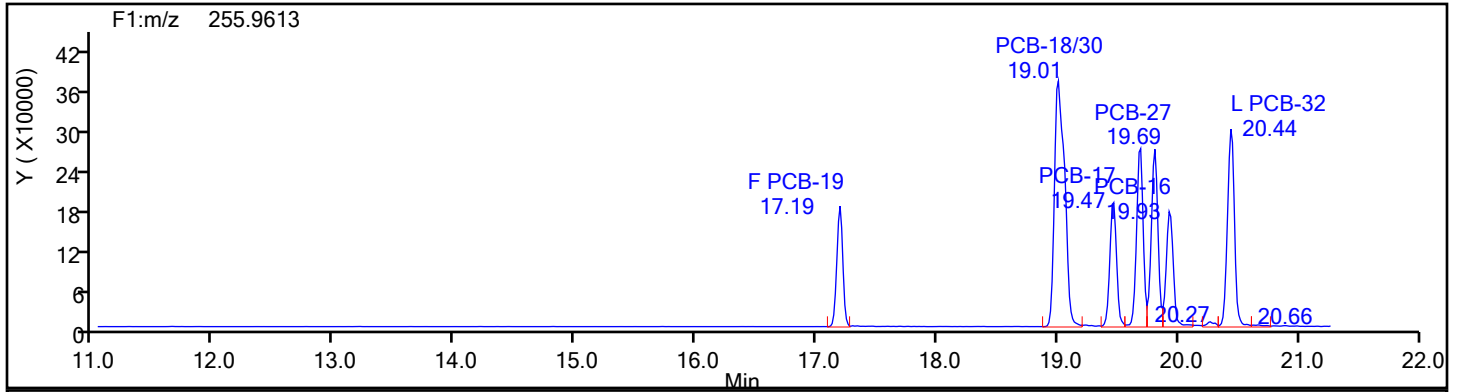
Worklist#: 88205

Sample Line#: 3

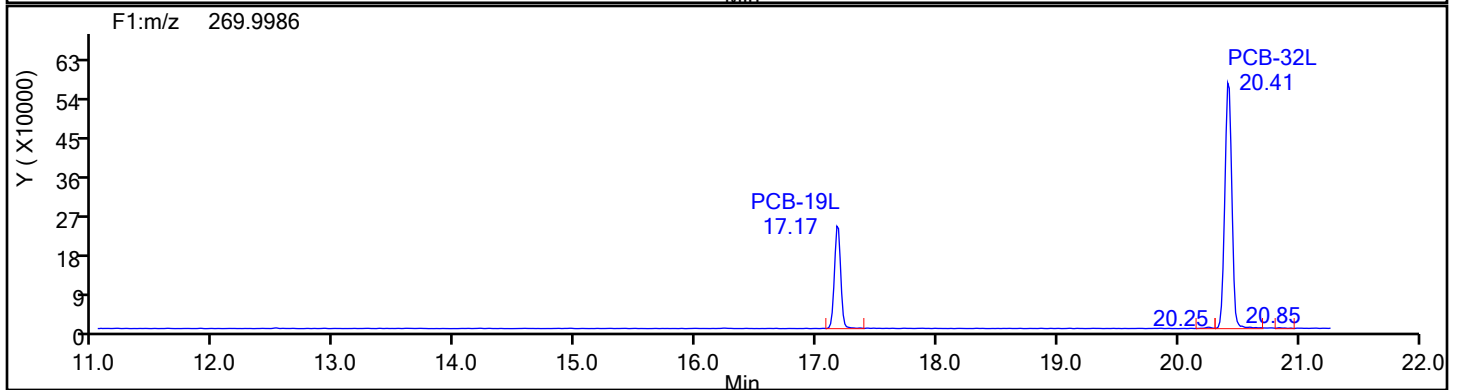
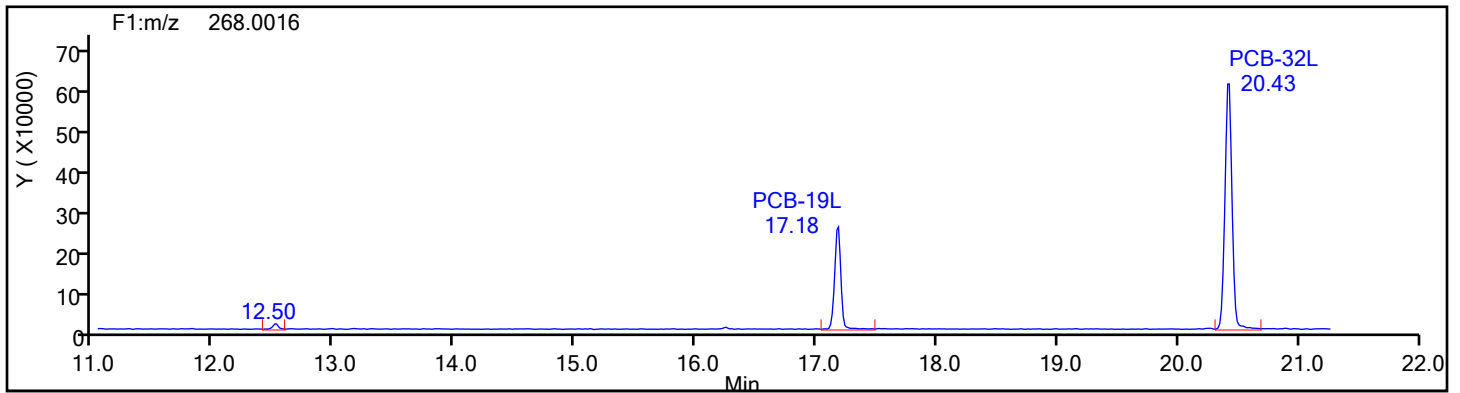
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur System

Method: PCBs D2D

Limit Group: HR - EPA 23 PCB ICAL

Client ID:

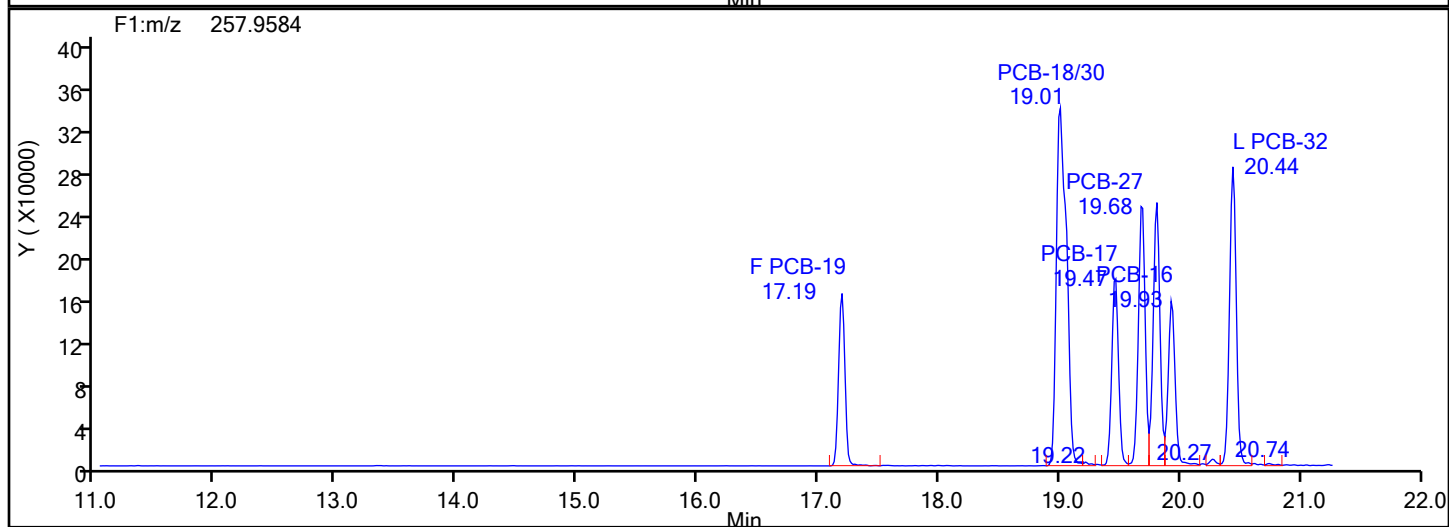
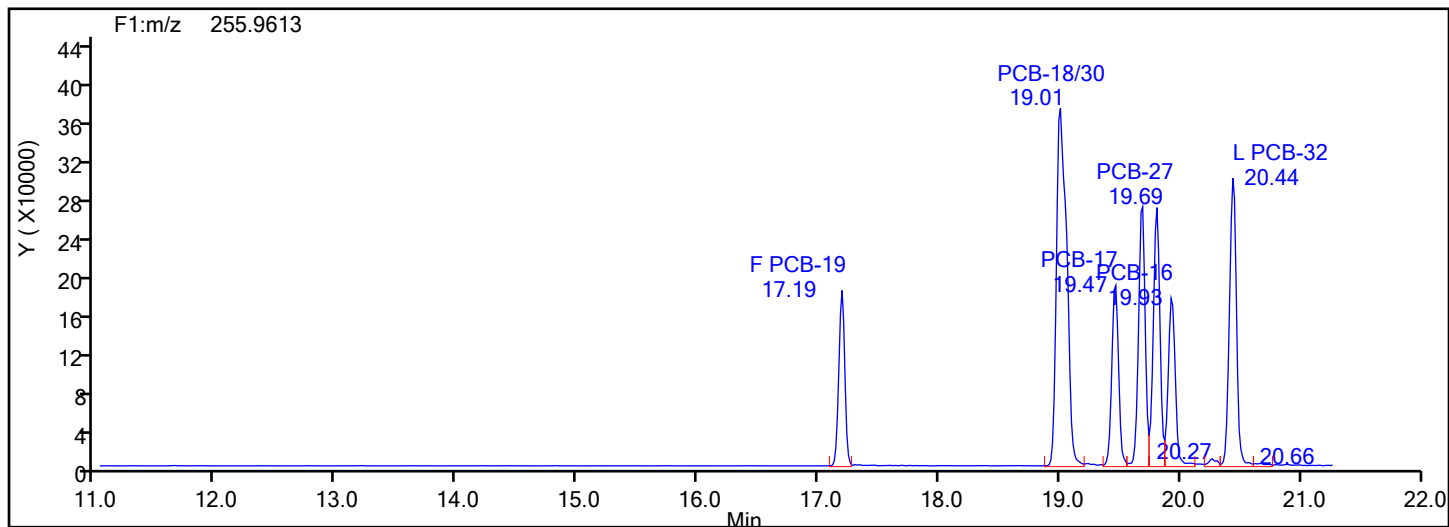
Worklist#: 88205

Sample Line#: 3

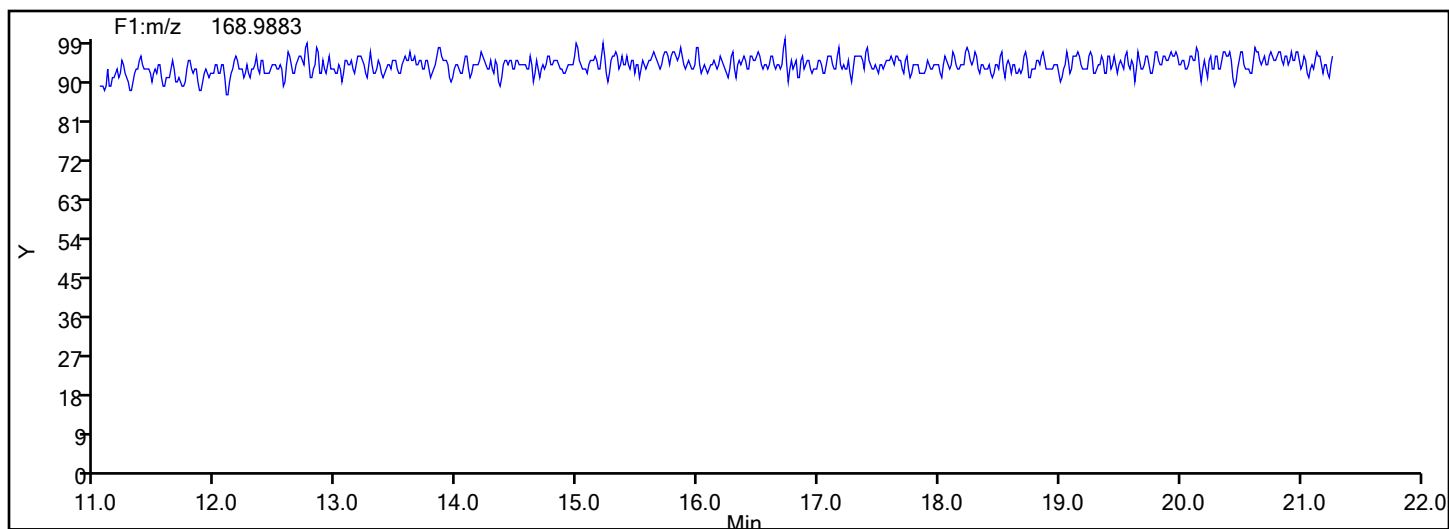
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F1



TriPCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

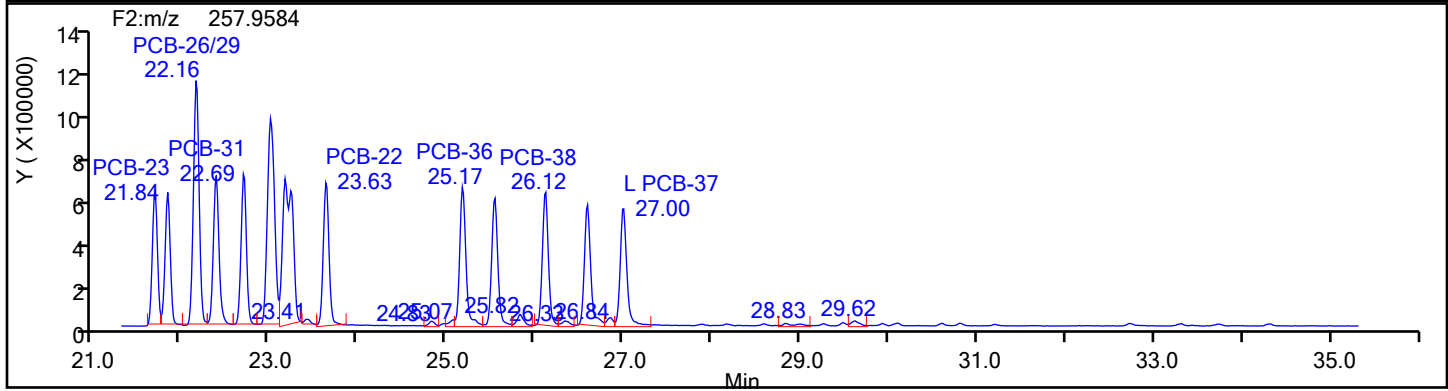
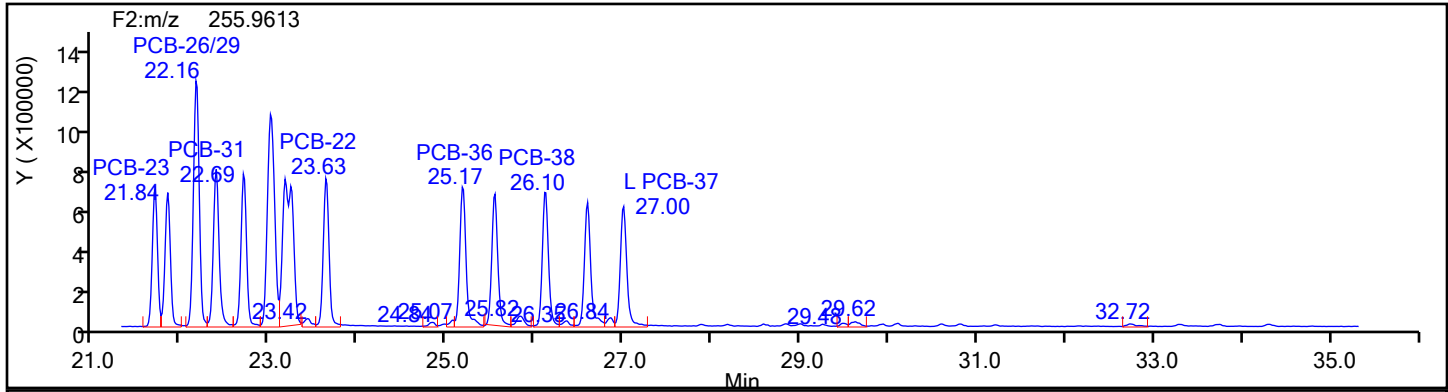
Worklist#: 88205

Sample Line#: 3

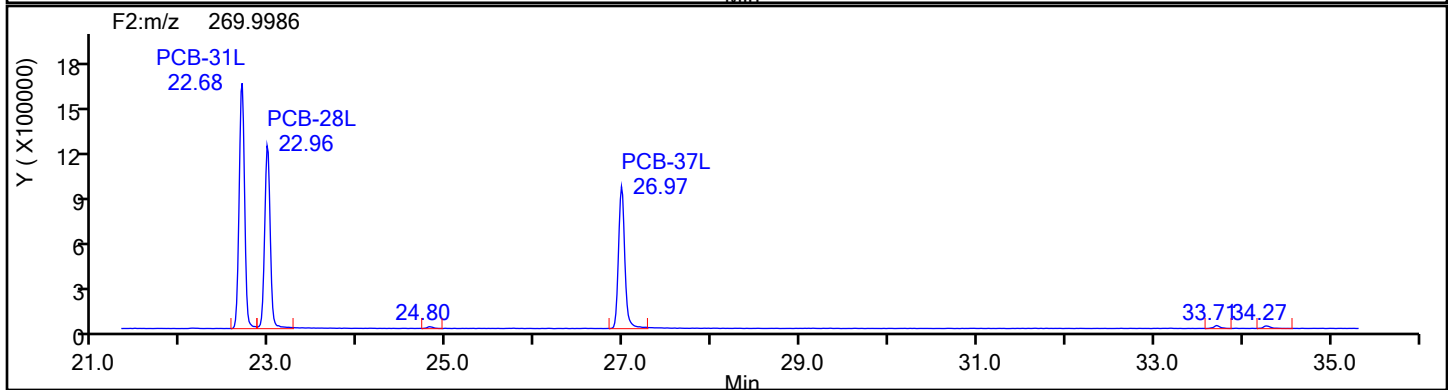
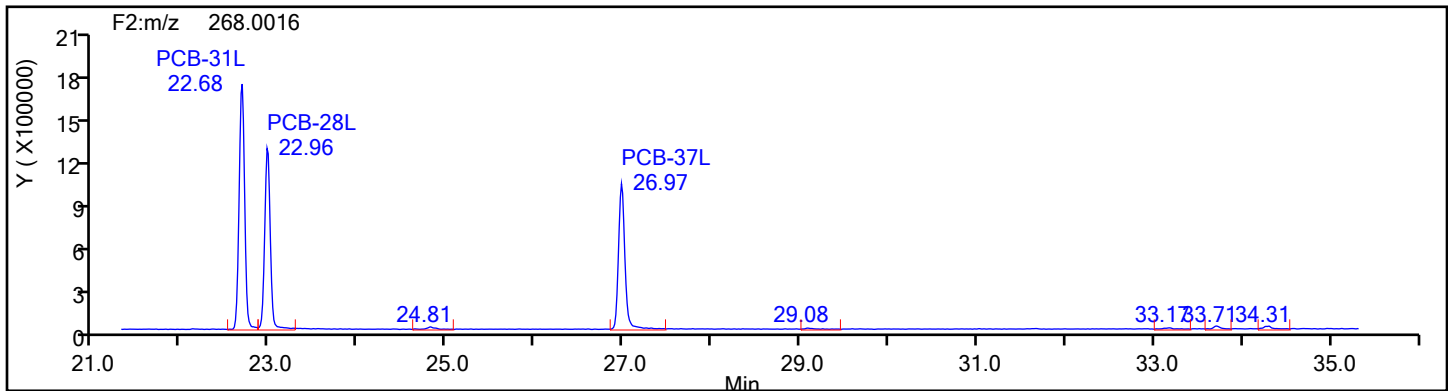
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

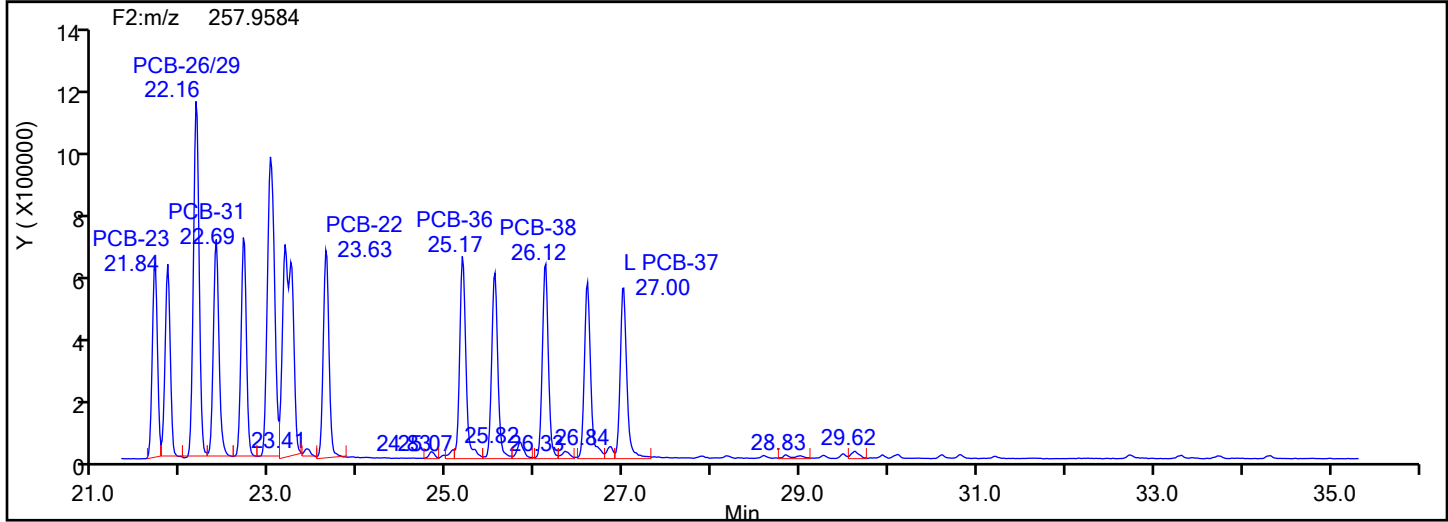
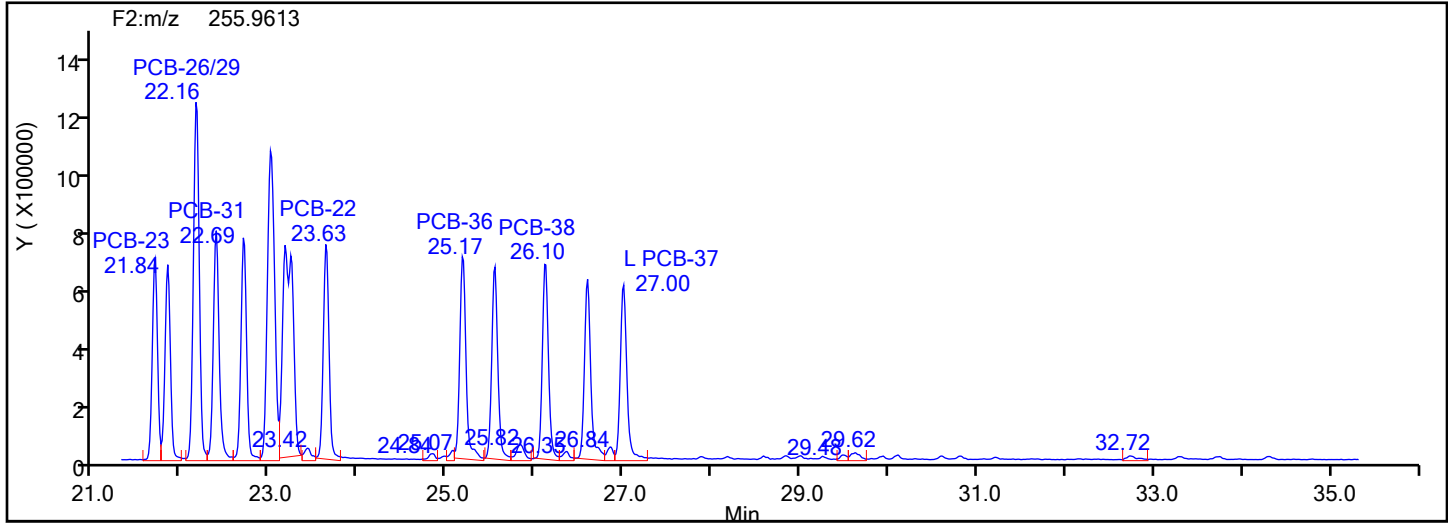
Worklist#: 88205

Sample Line#: 3

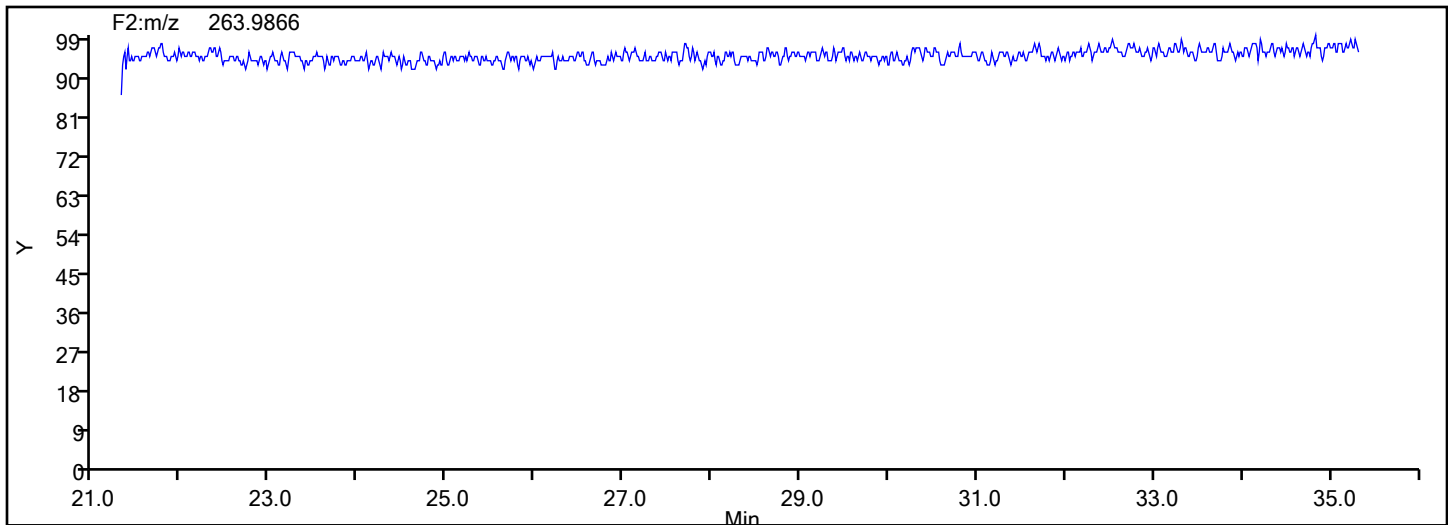
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TriPCB F2



TriPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

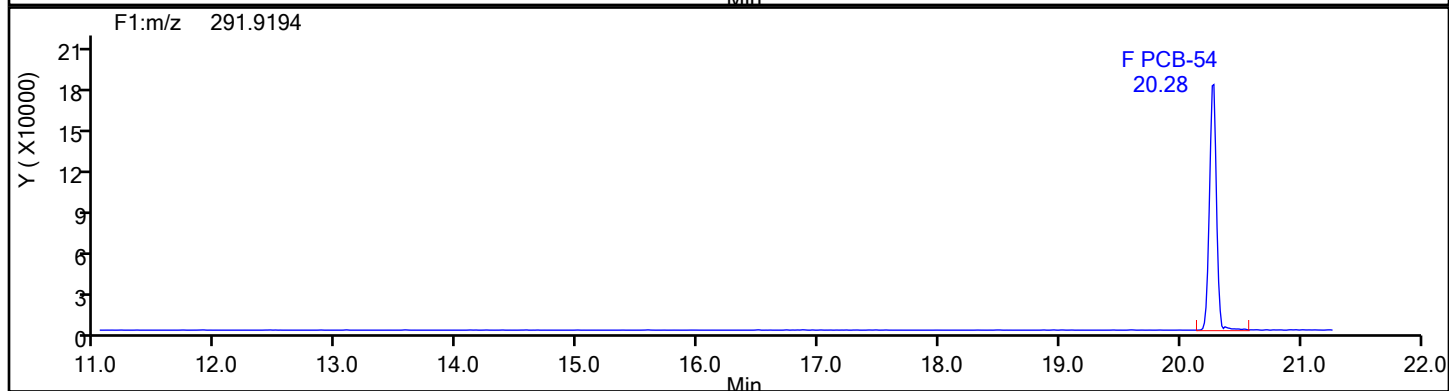
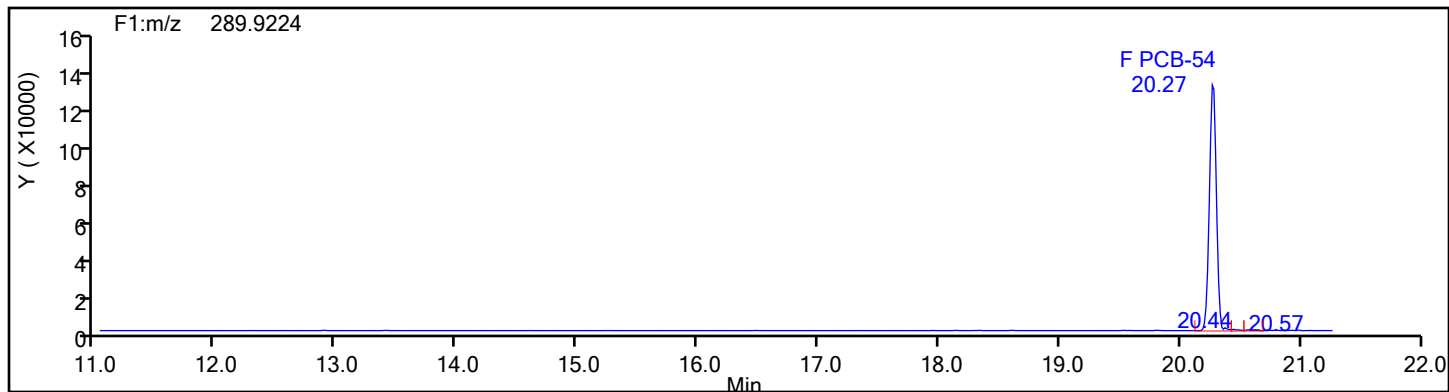
Worklist#: 88205

Sample Line#: 3

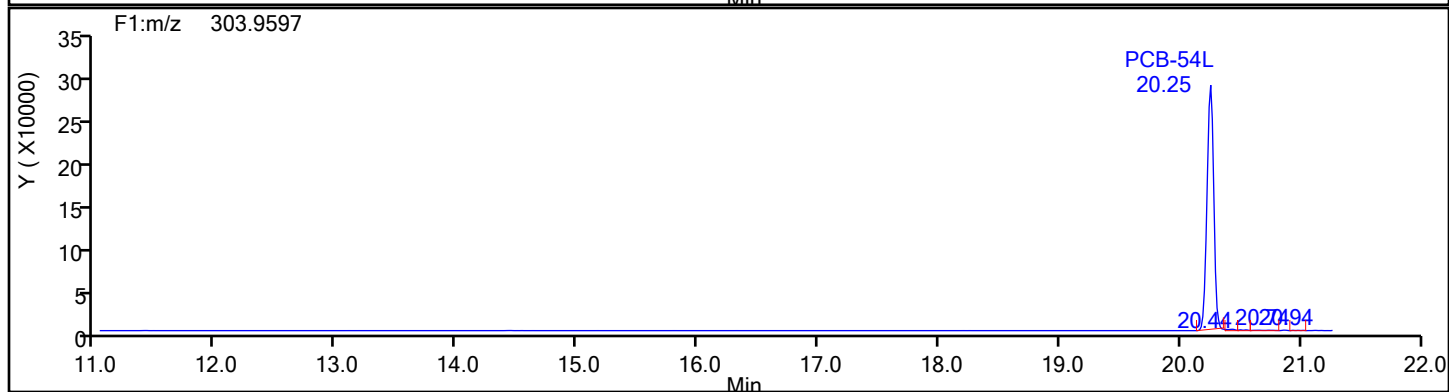
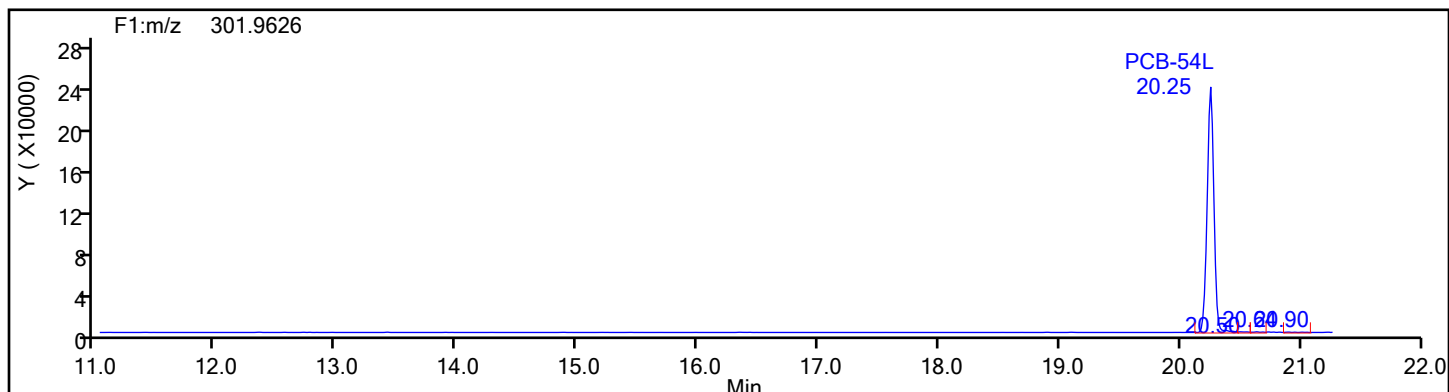
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

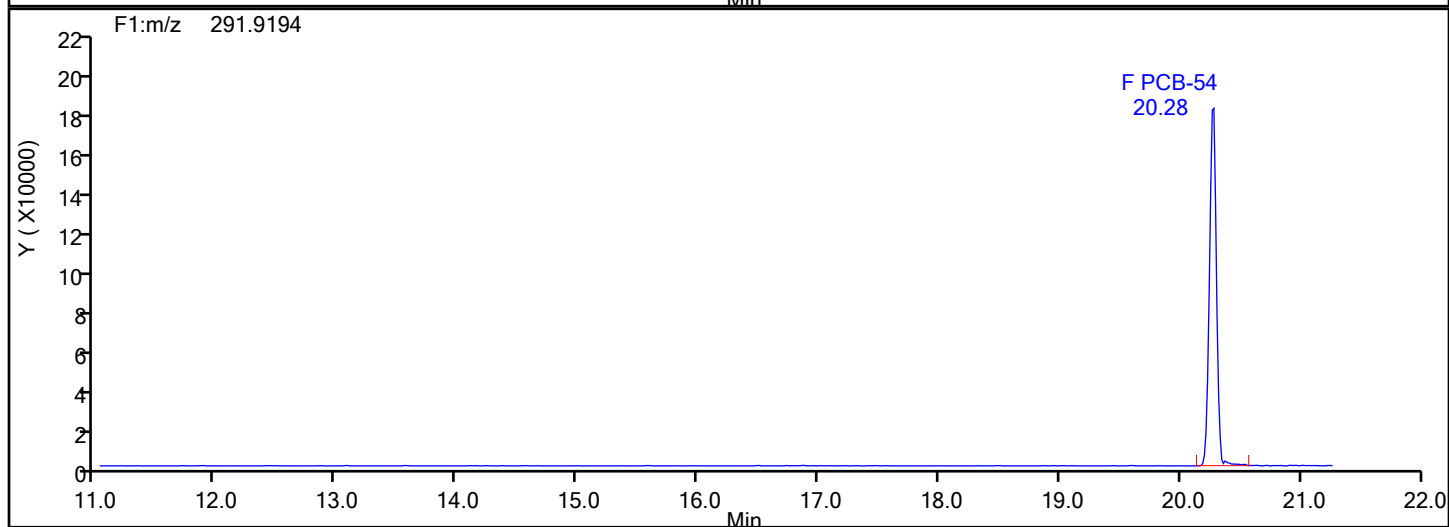
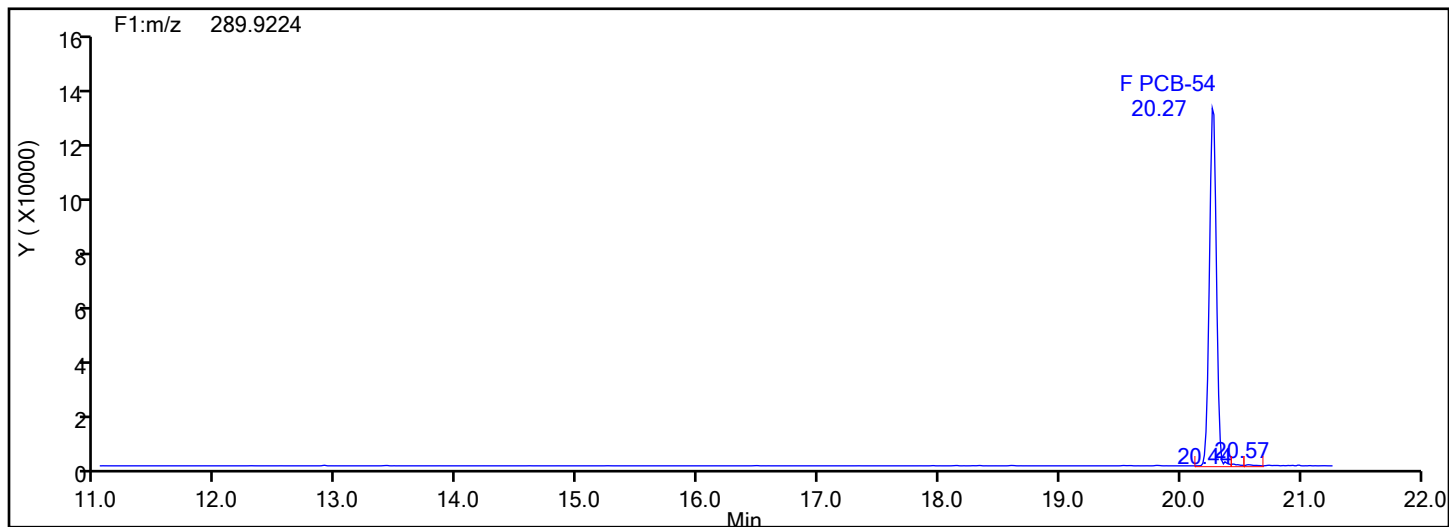
Worklist#: 88205

Sample Line#: 3

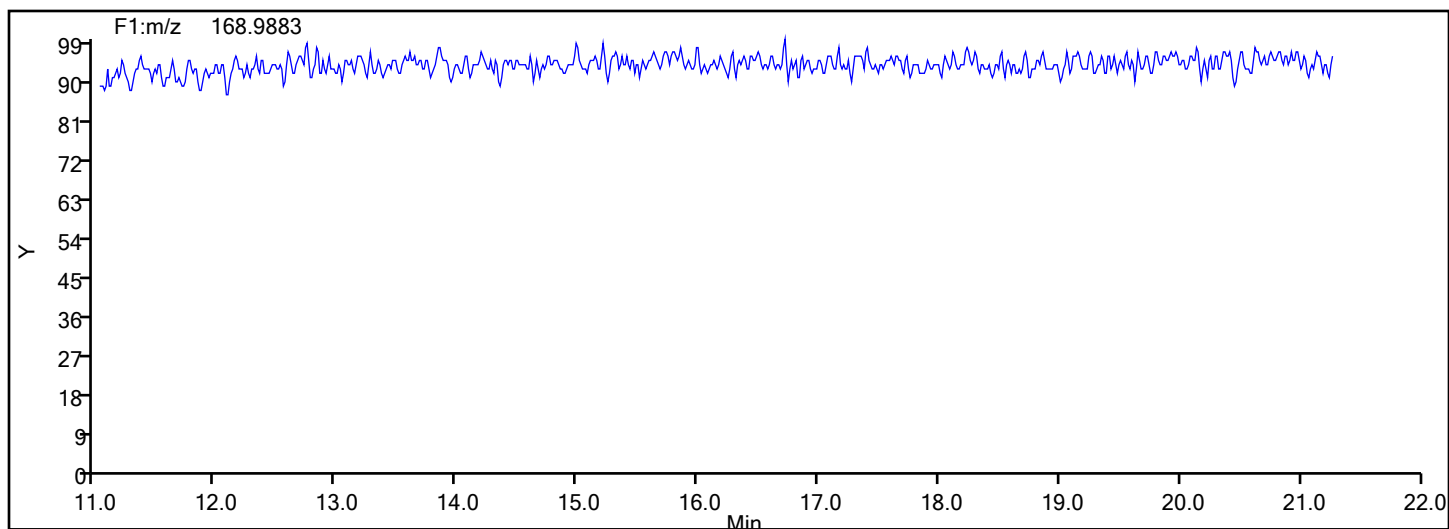
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F1



TePCB F1 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

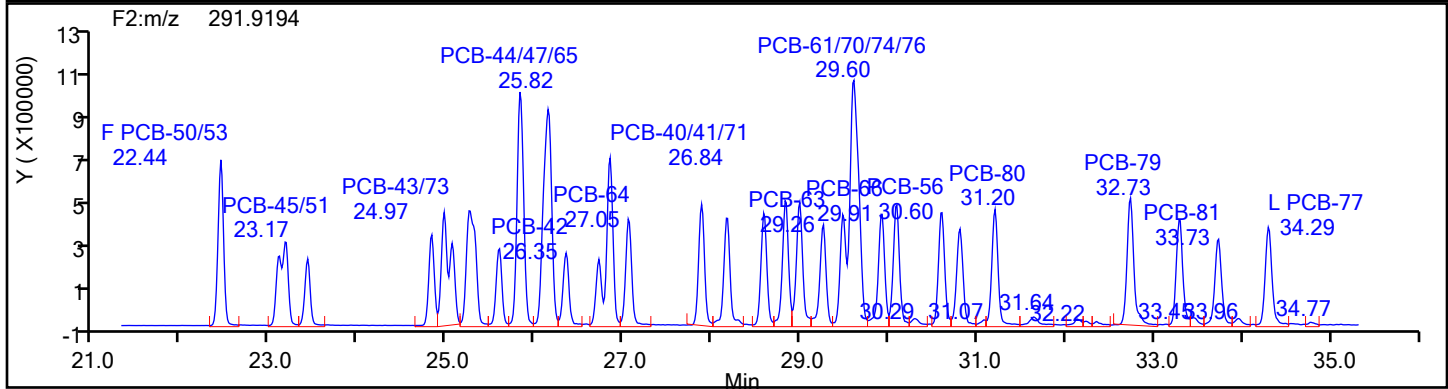
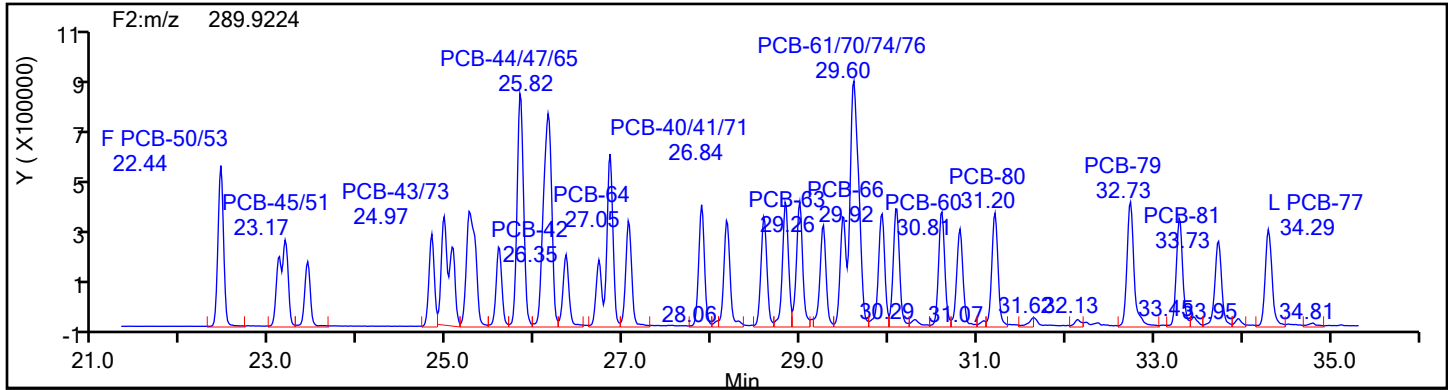
Worklist#: 88205

Sample Line#: 3

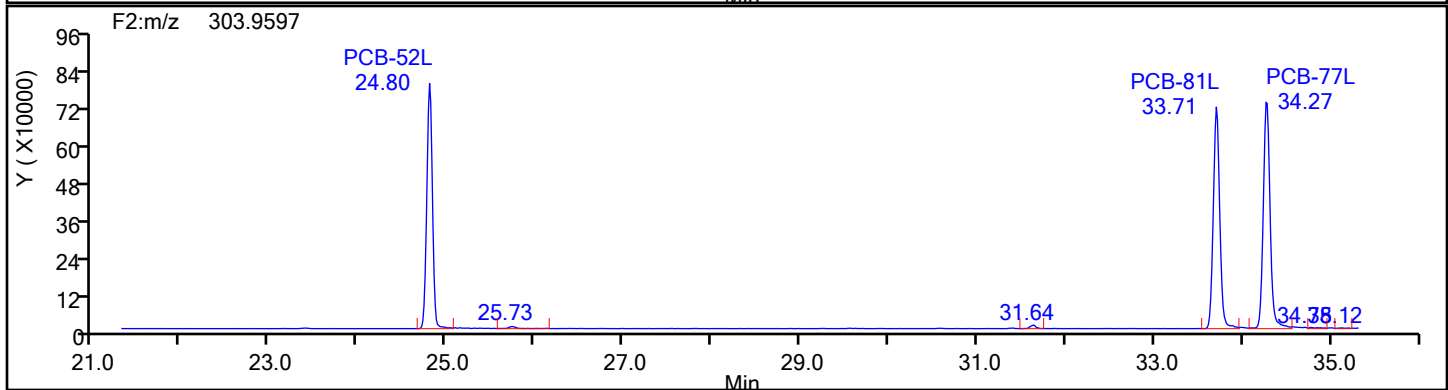
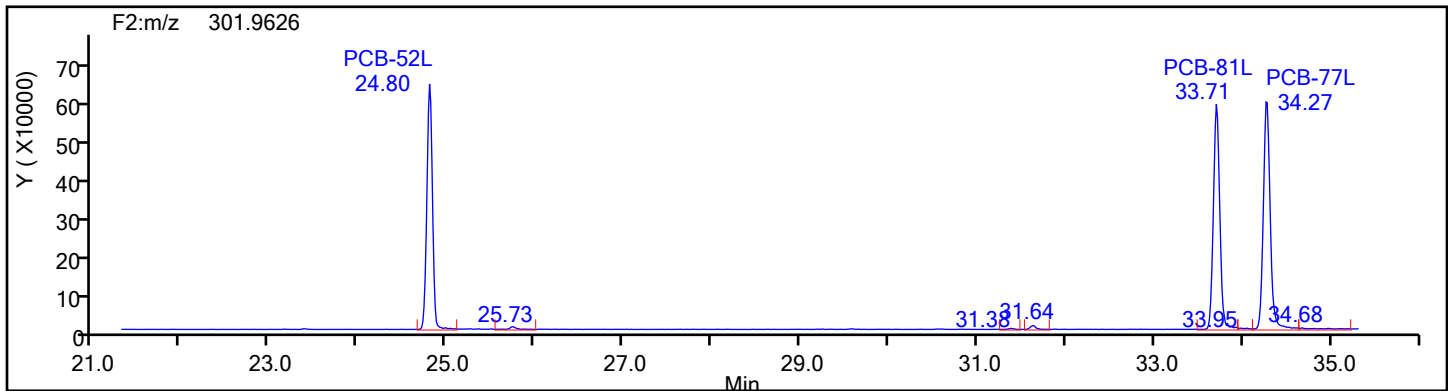
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



TePCB F2 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

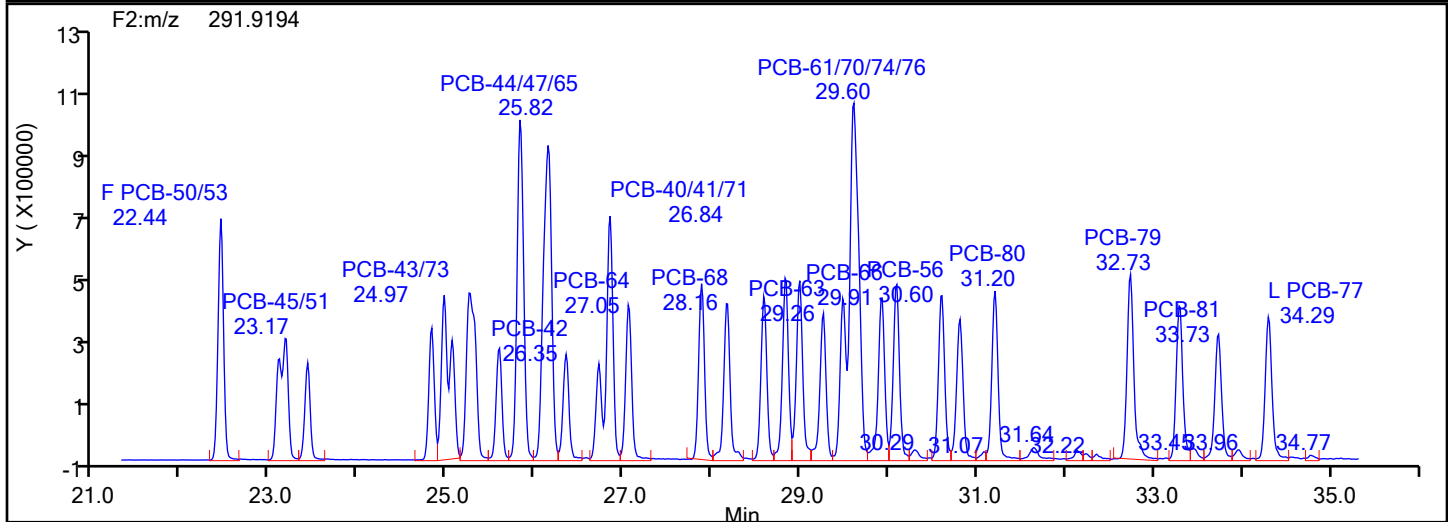
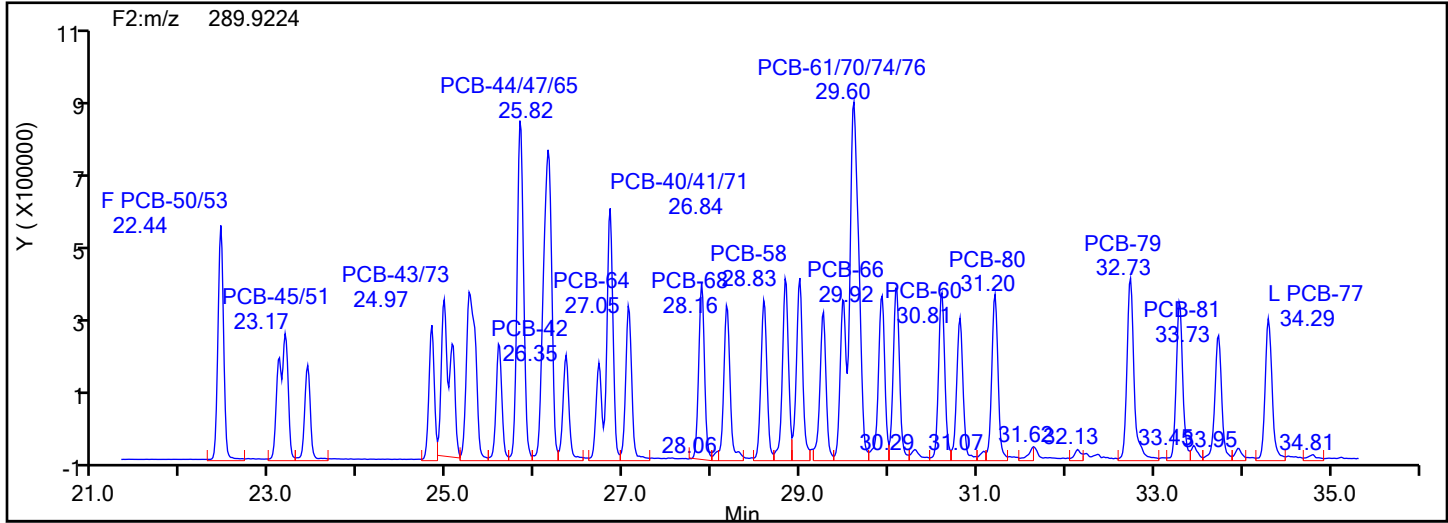
Worklist#: 88205

Sample Line#: 3

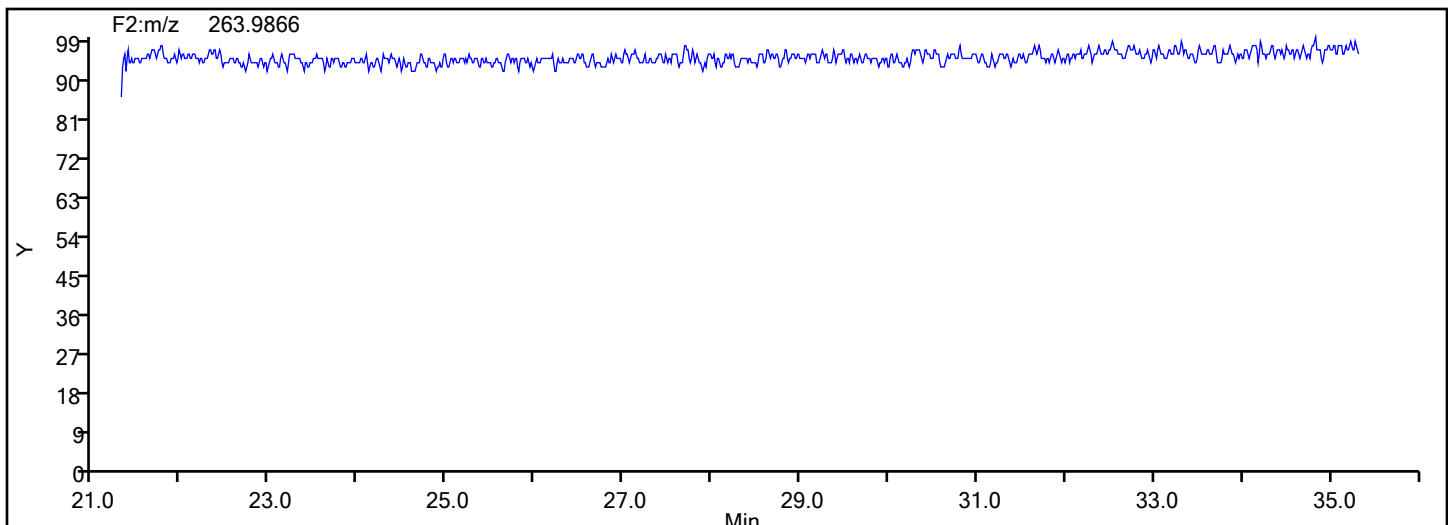
Column Type: SPB-Octyl

Column Dia: 0.25 mm

TePCB F2



## TePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

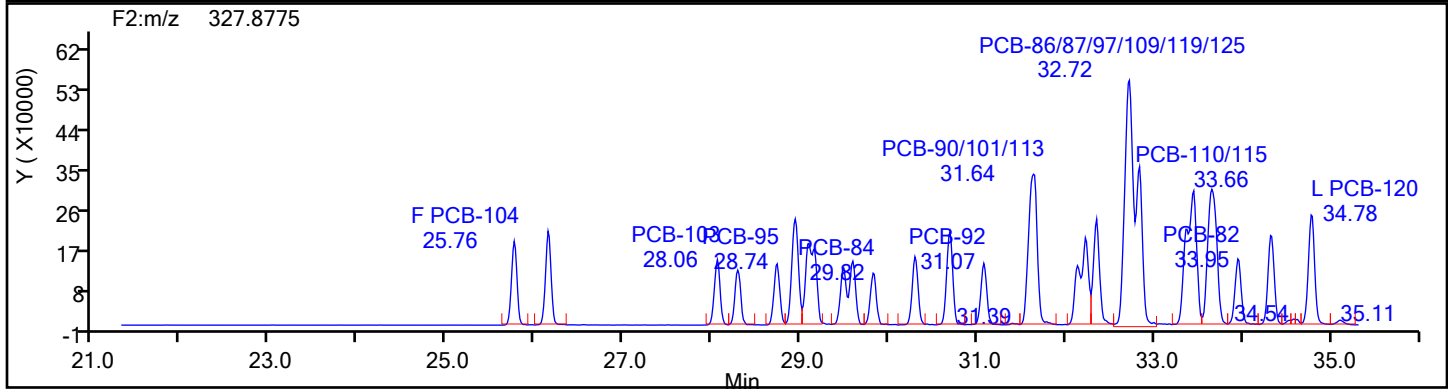
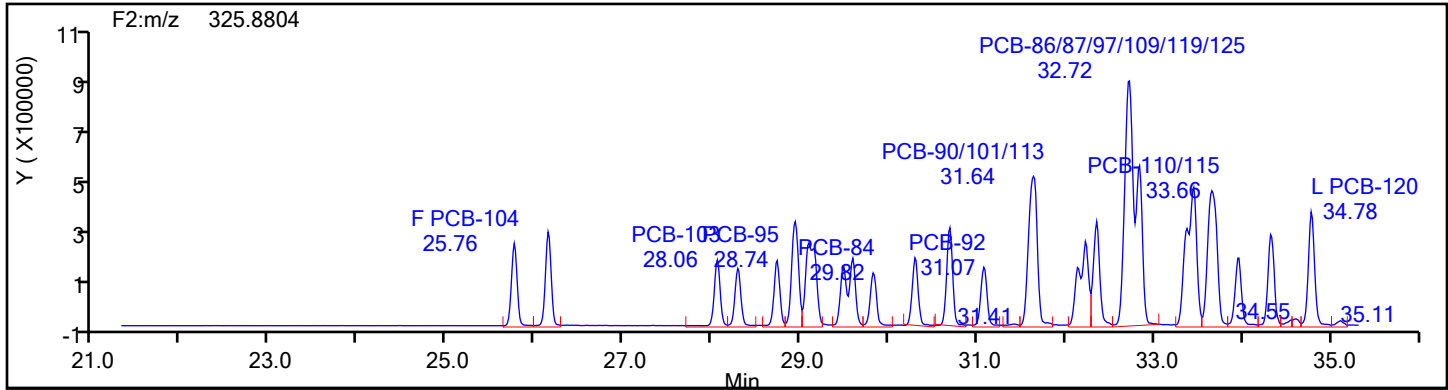
Worklist#: 88205

Sample Line#: 3

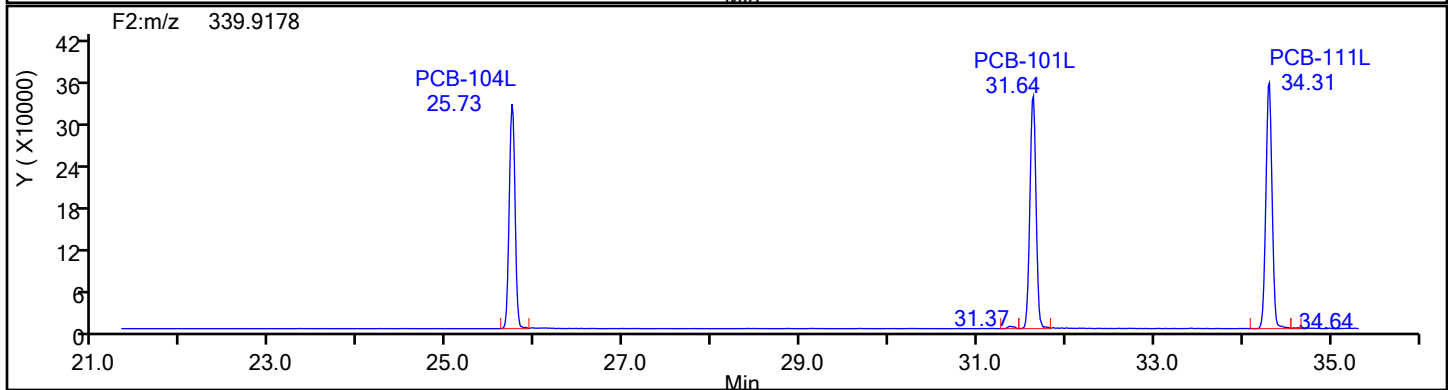
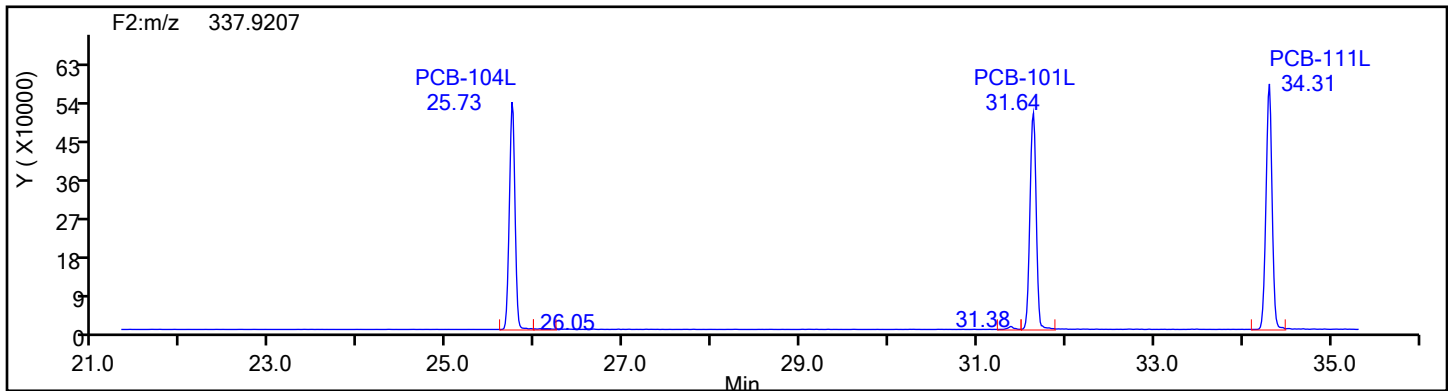
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



PePCB F2 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

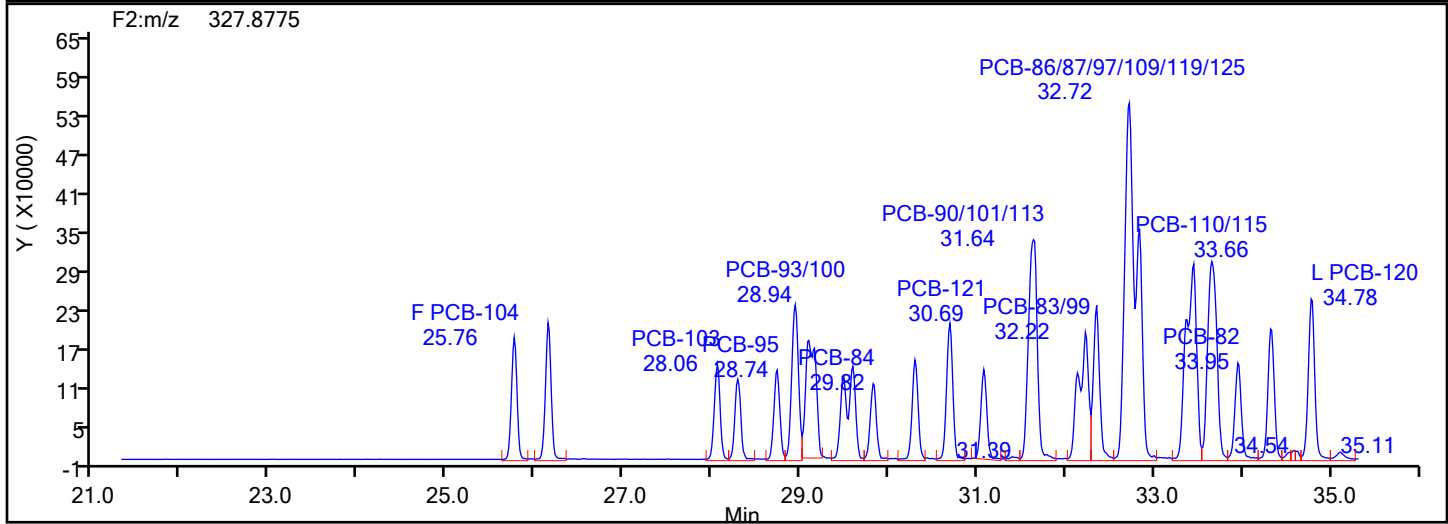
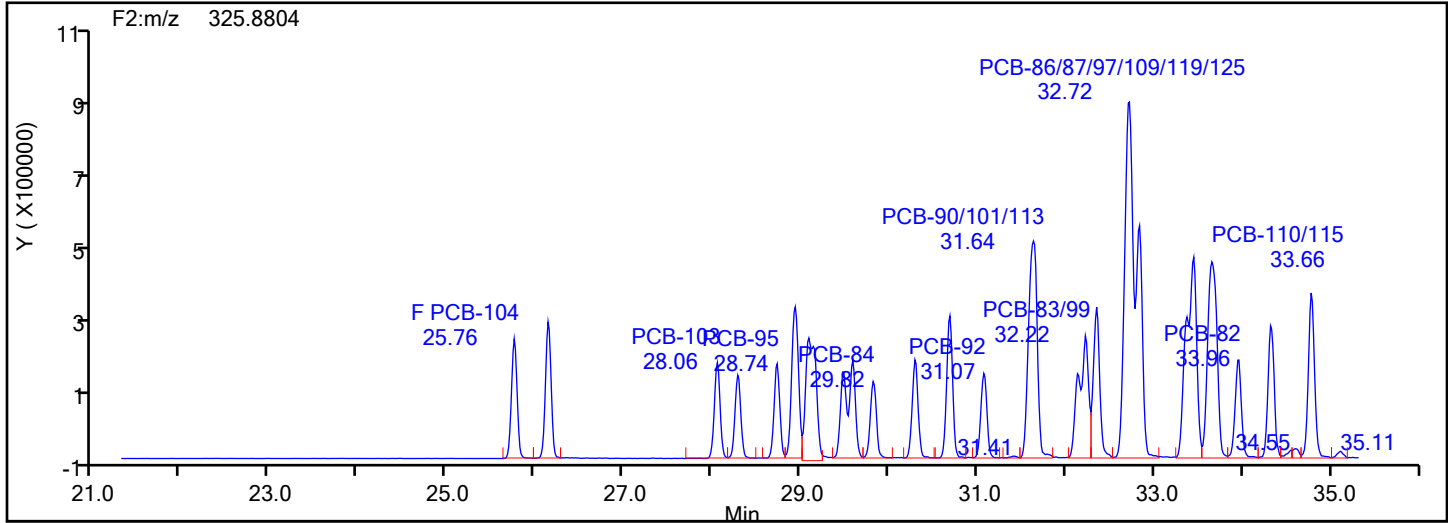
Worklist#: 88205

Sample Line#: 3

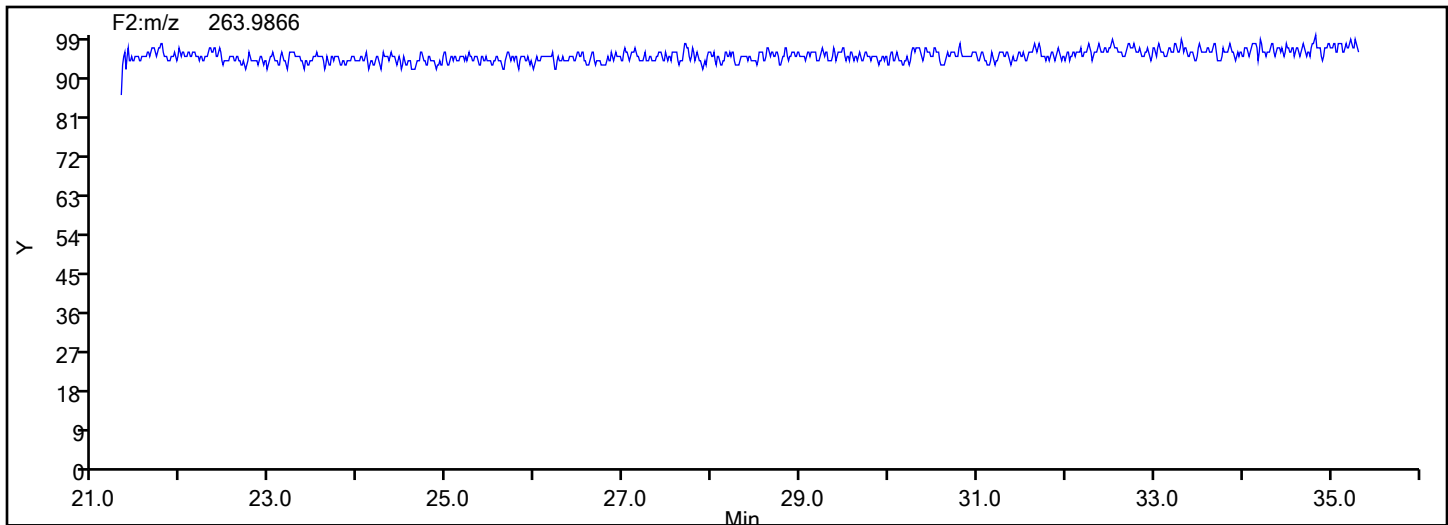
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F2



## PePCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

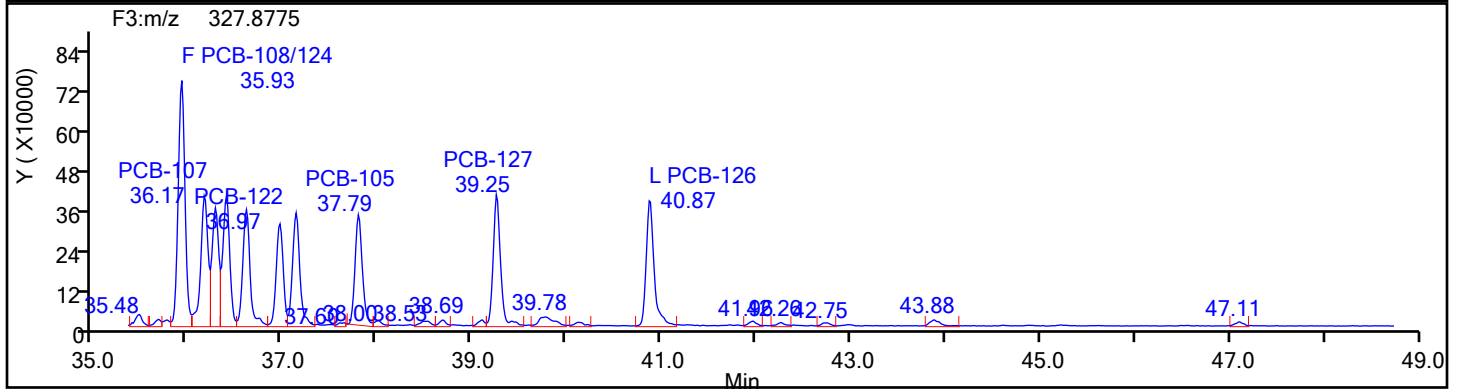
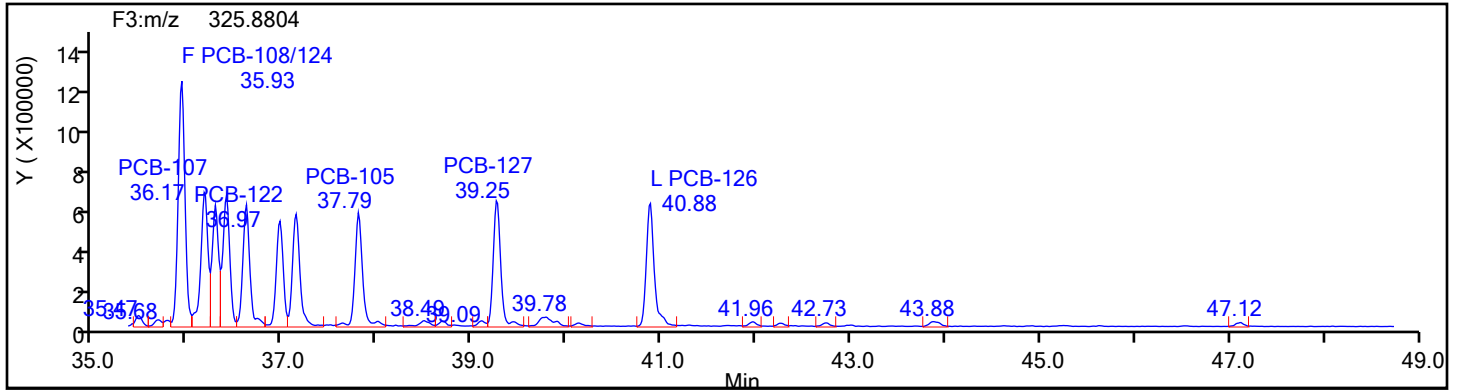
Worklist#: 88205

Sample Line#: 3

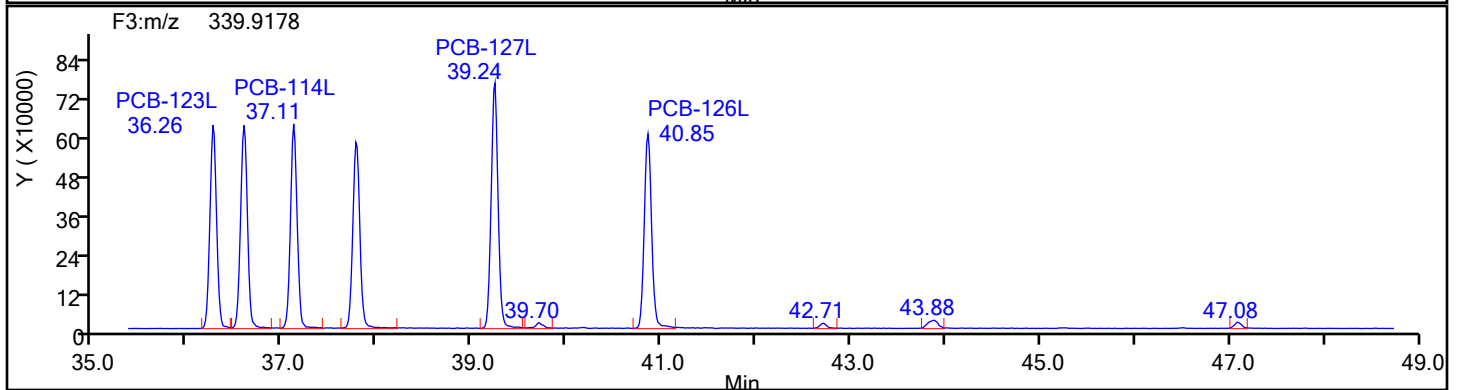
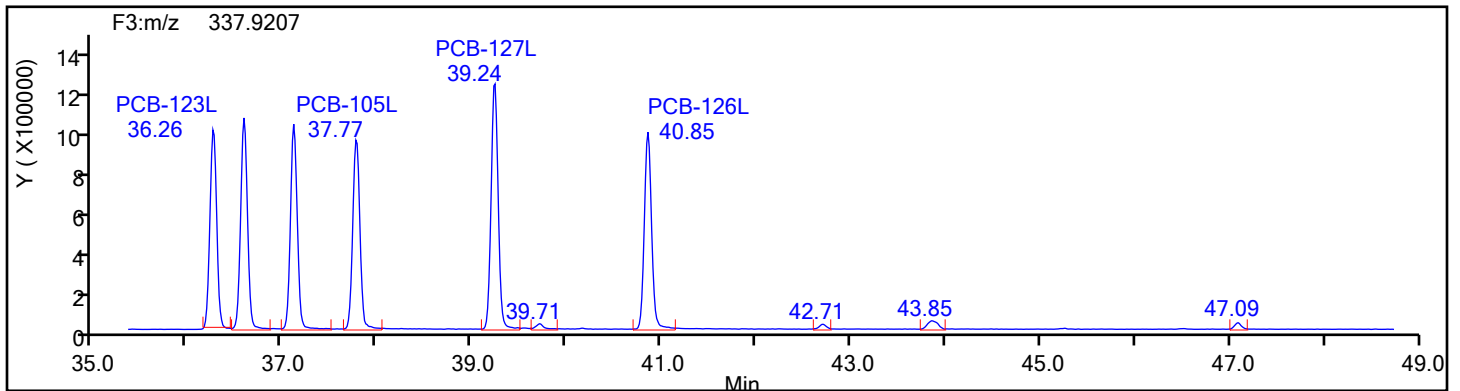
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



PePCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

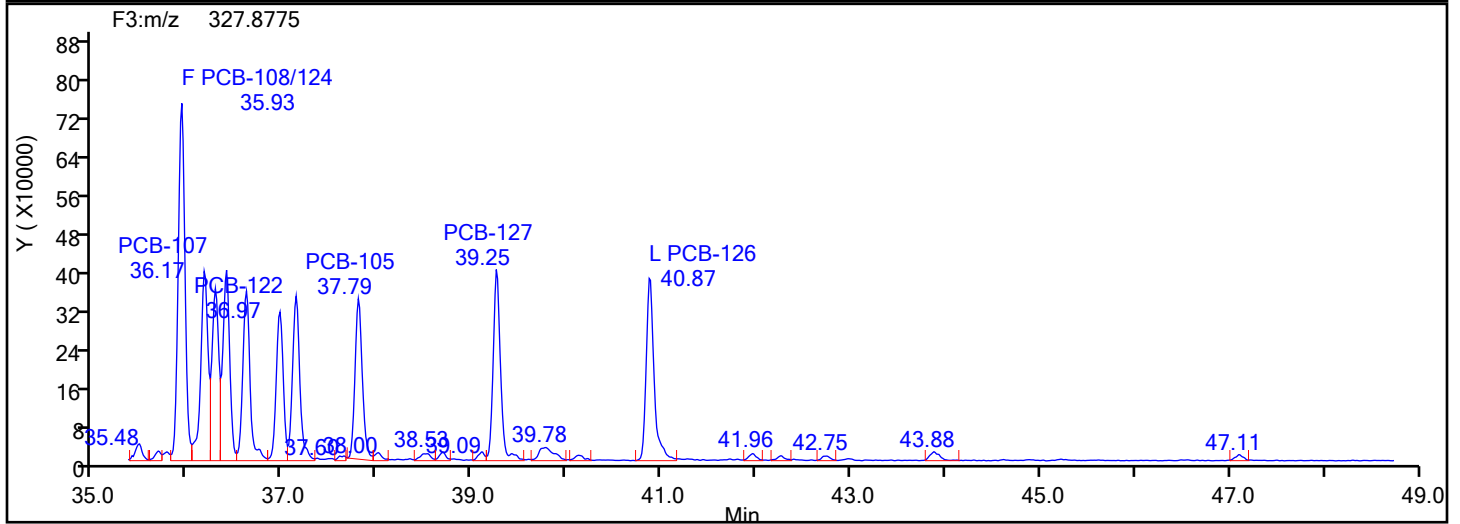
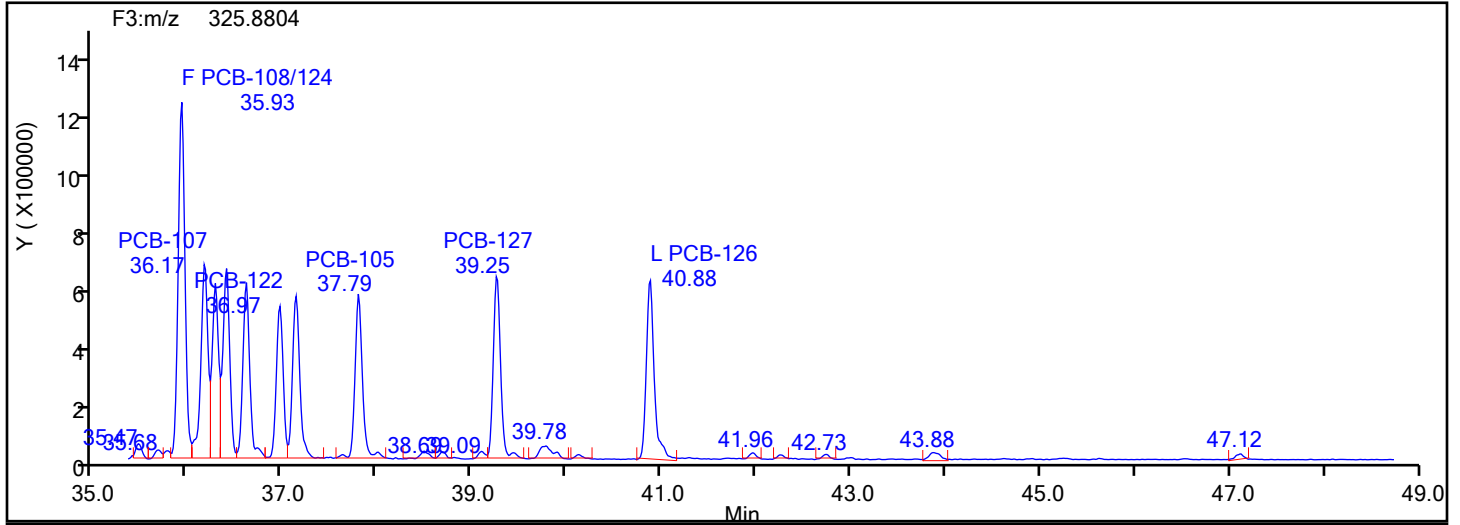
Worklist#: 88205

Sample Line#: 3

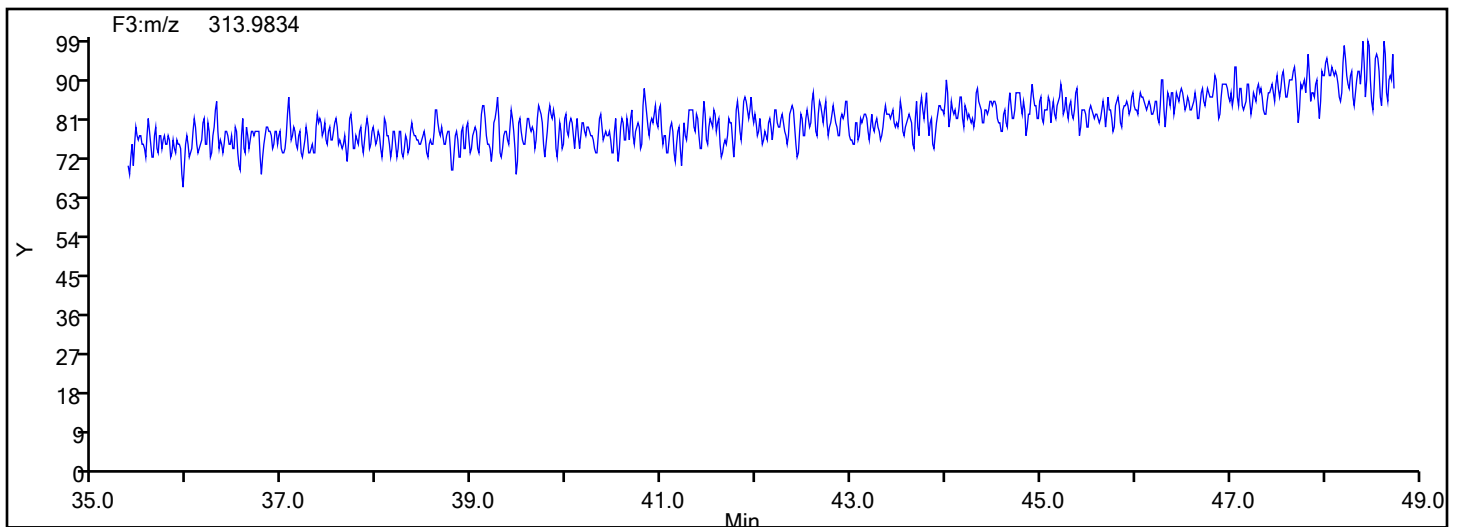
Column Type: SPB-Octyl

Column Dia: 0.25 mm

PePCB F3



## PePCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

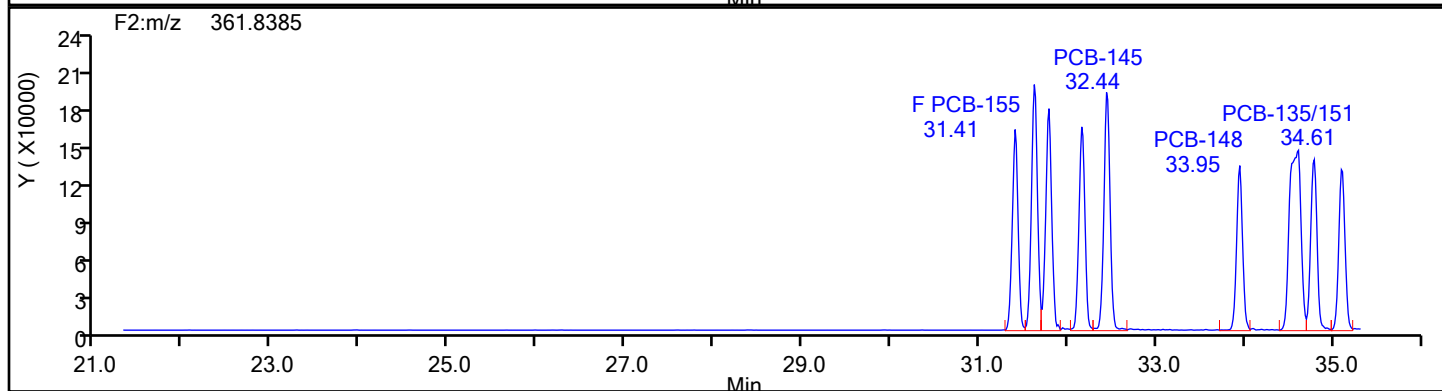
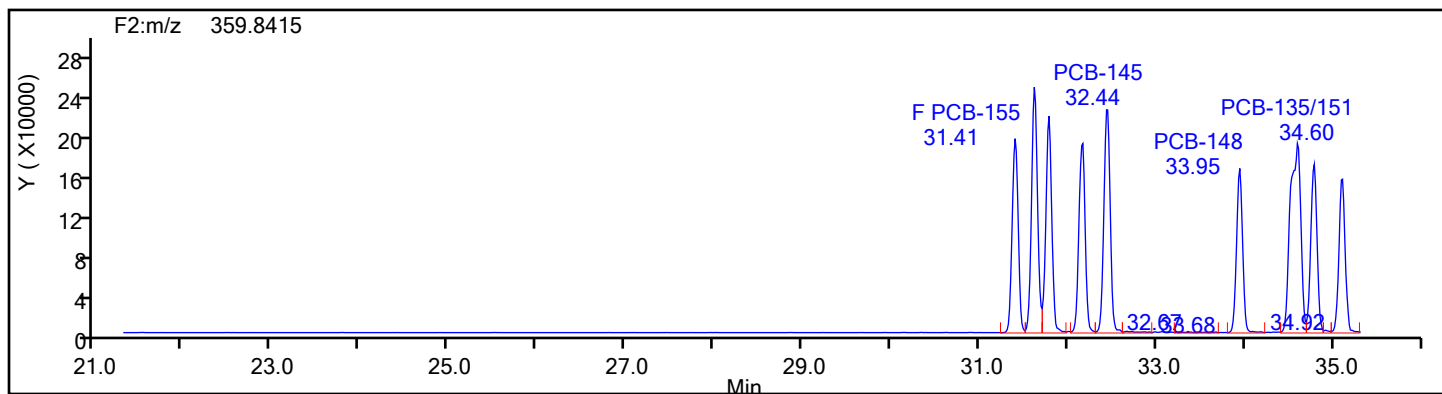
Worklist#: 88205

Sample Line#: 3

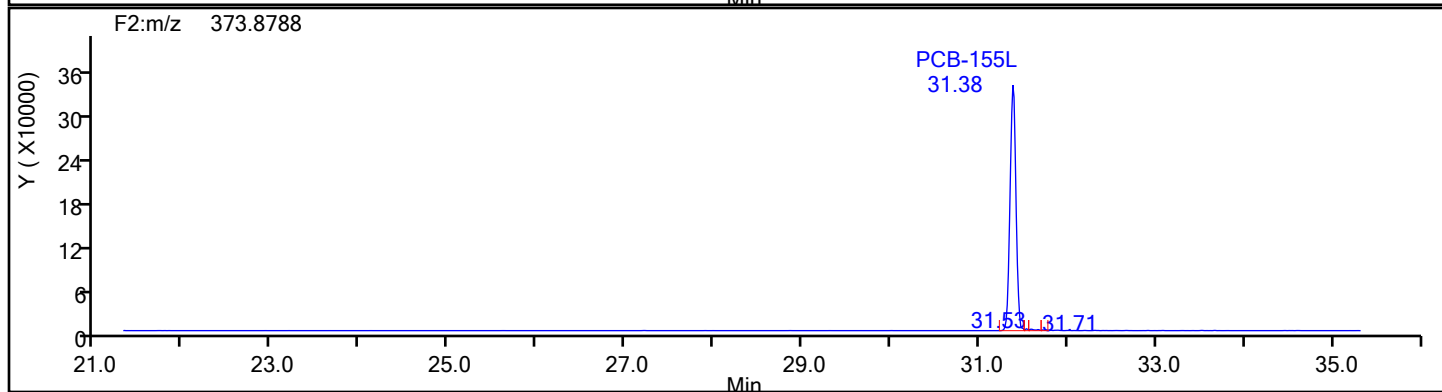
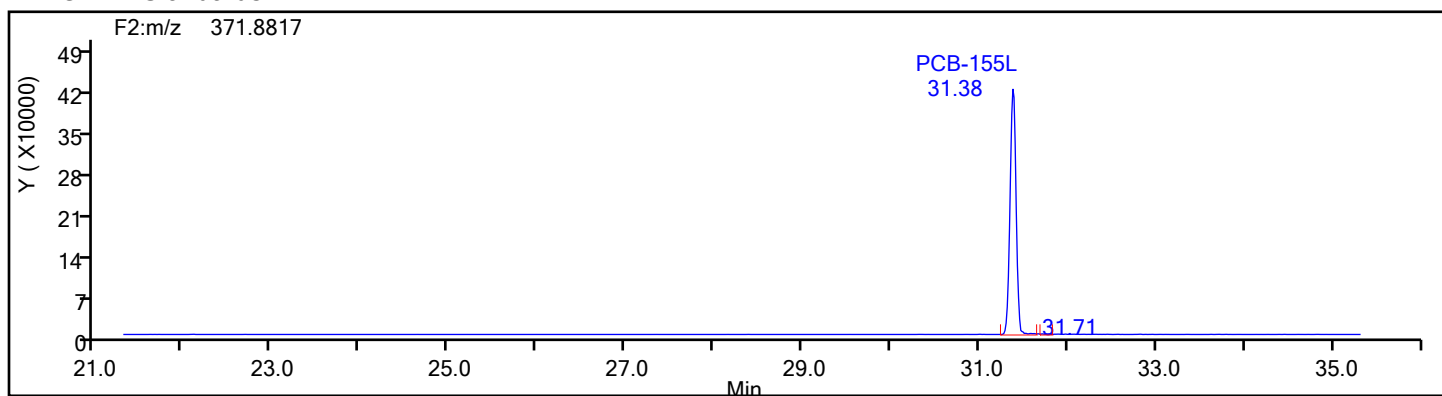
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F2

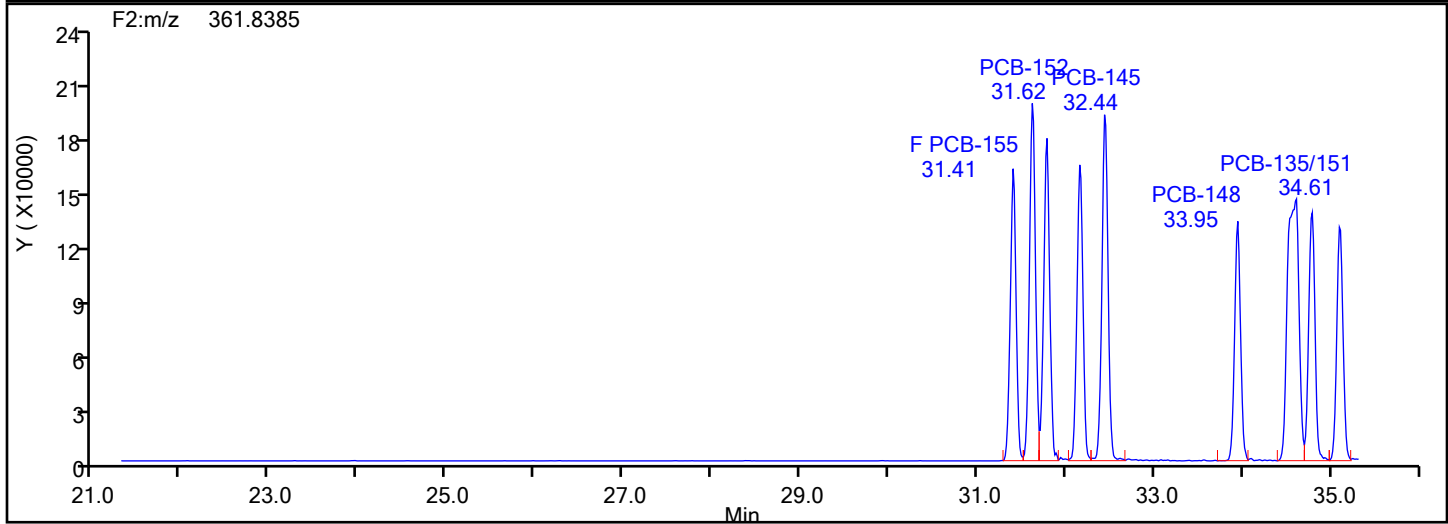
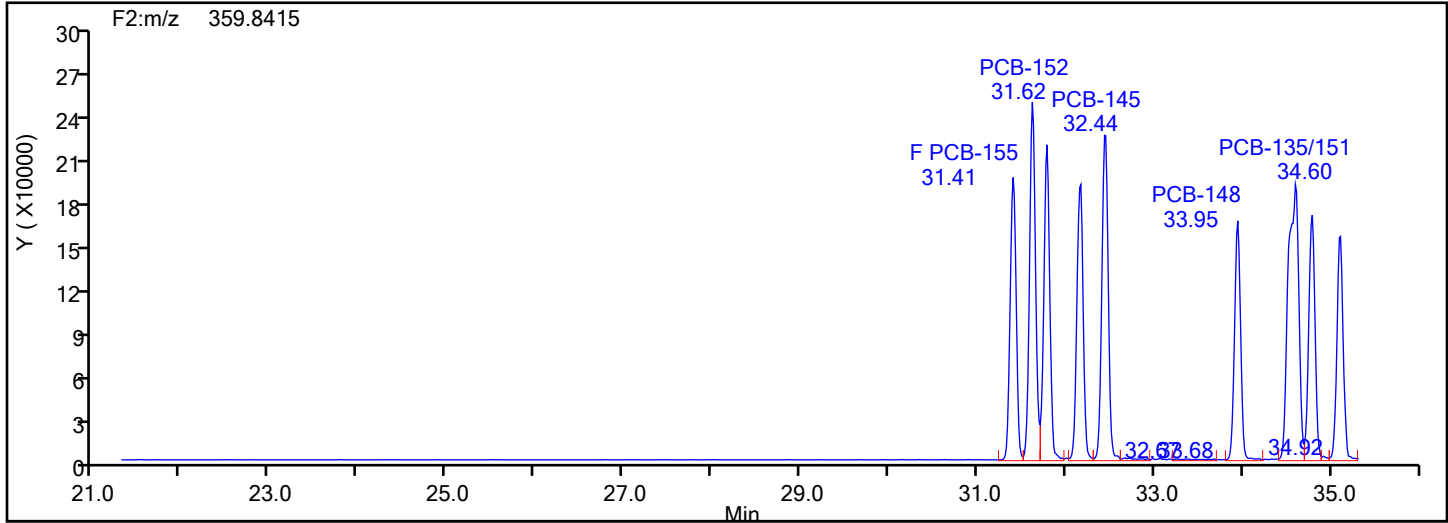


HxPCB F2 Standards

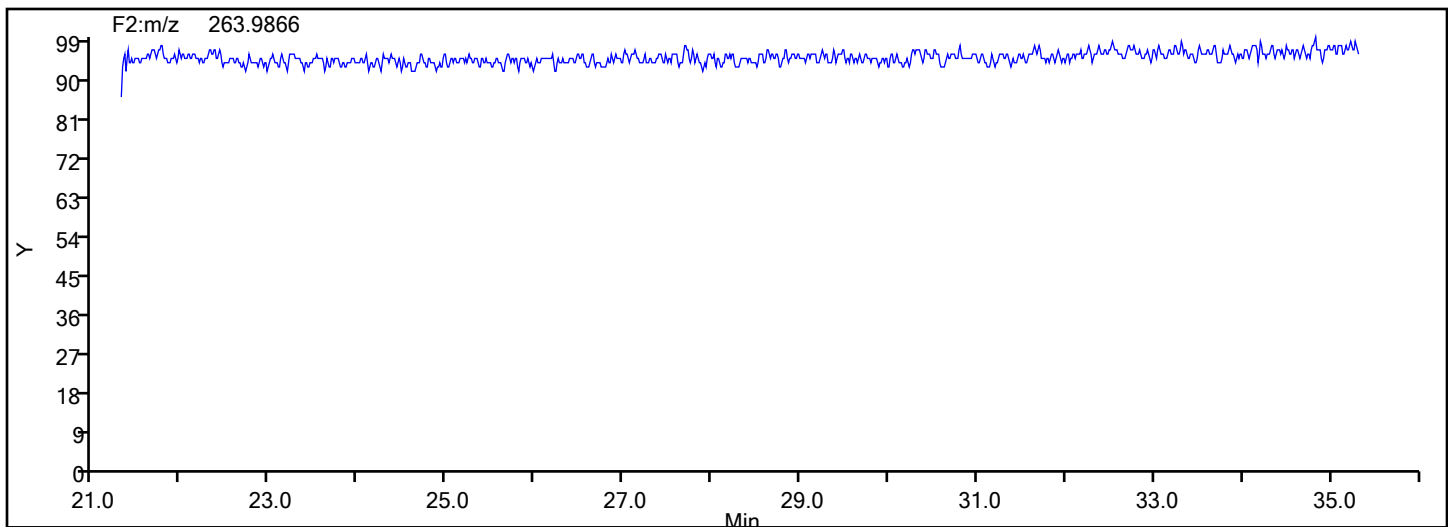


## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d  
Injection Date: 28-Jun-2024 00:12:00 Injection Vol: 1.0 ul  
Instrument ID: D2D Operator ID: Xcalibur\_System  
Method: PCBs\_D2D Limit Group: HR - EPA\_23 PCB ICAL  
Client ID:  
Worklist#: 88205 Sample Line#: 3  
Column Type: SPB-Octyl Column Dia: 0.25 mm  
HxPCB F2



## HxPCB F2 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

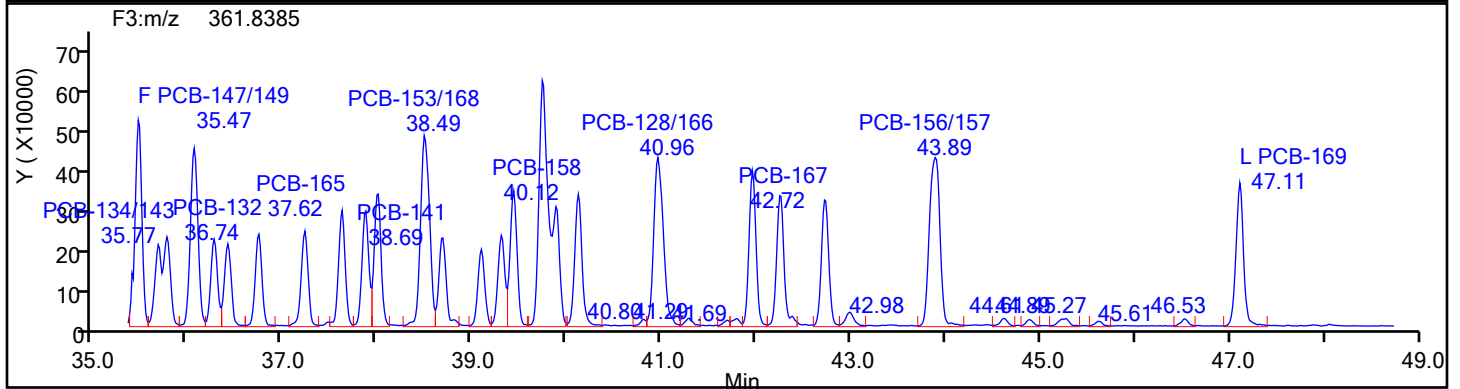
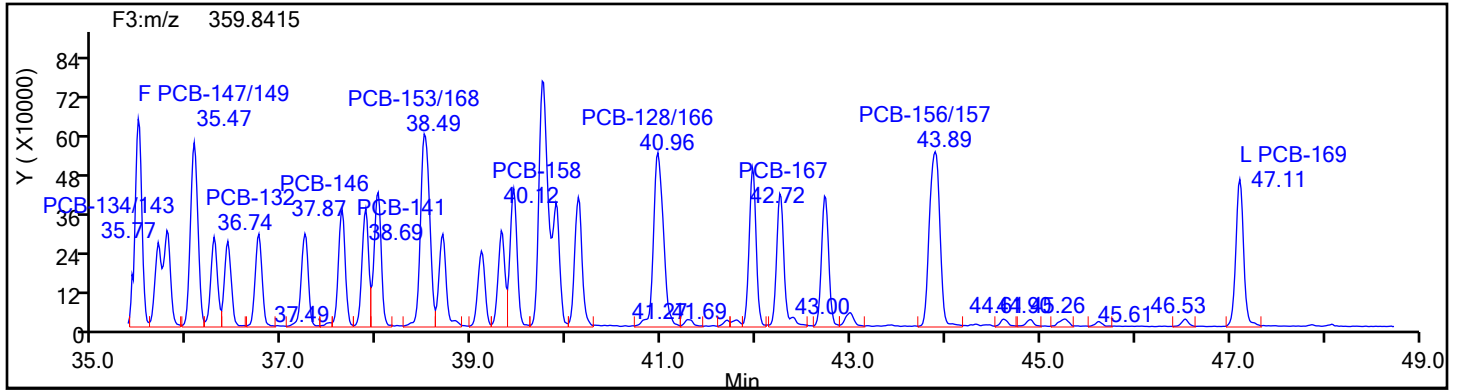
Worklist#: 88205

Sample Line#: 3

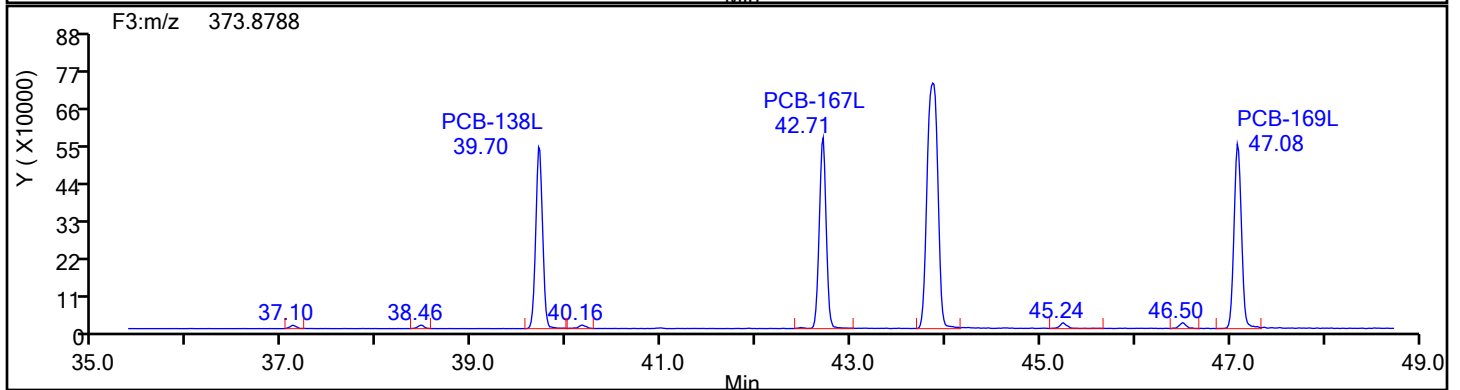
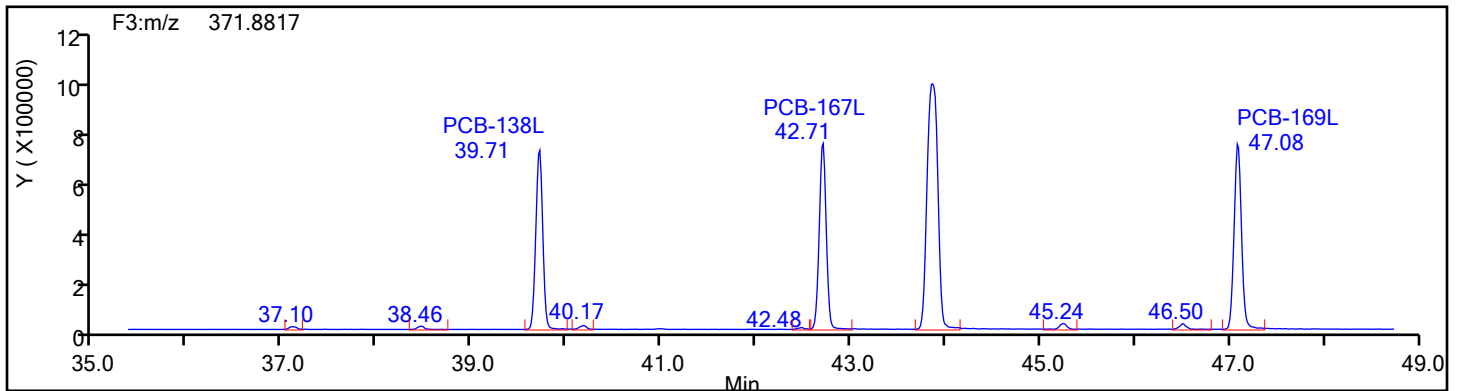
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

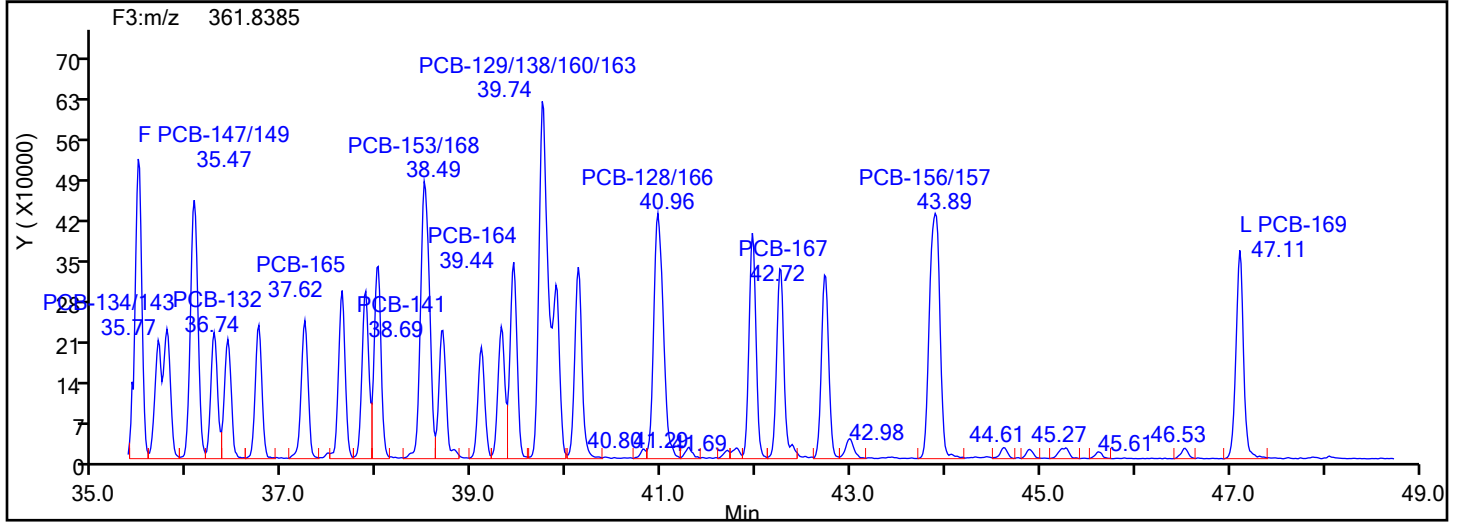
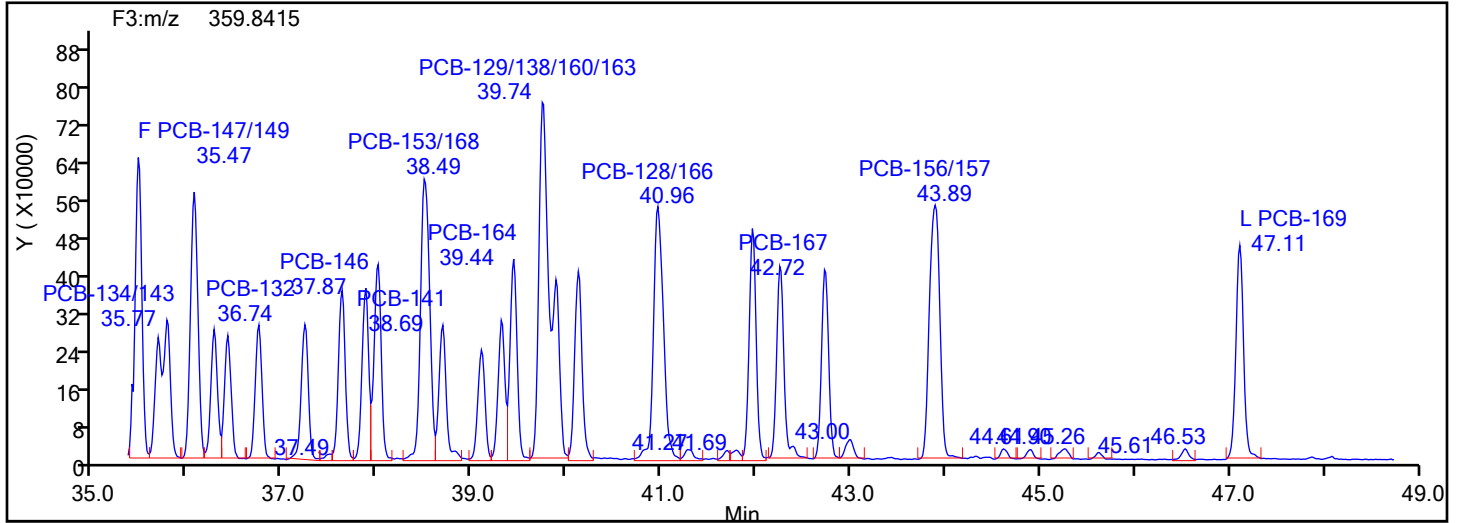
Worklist#: 88205

Sample Line#: 3

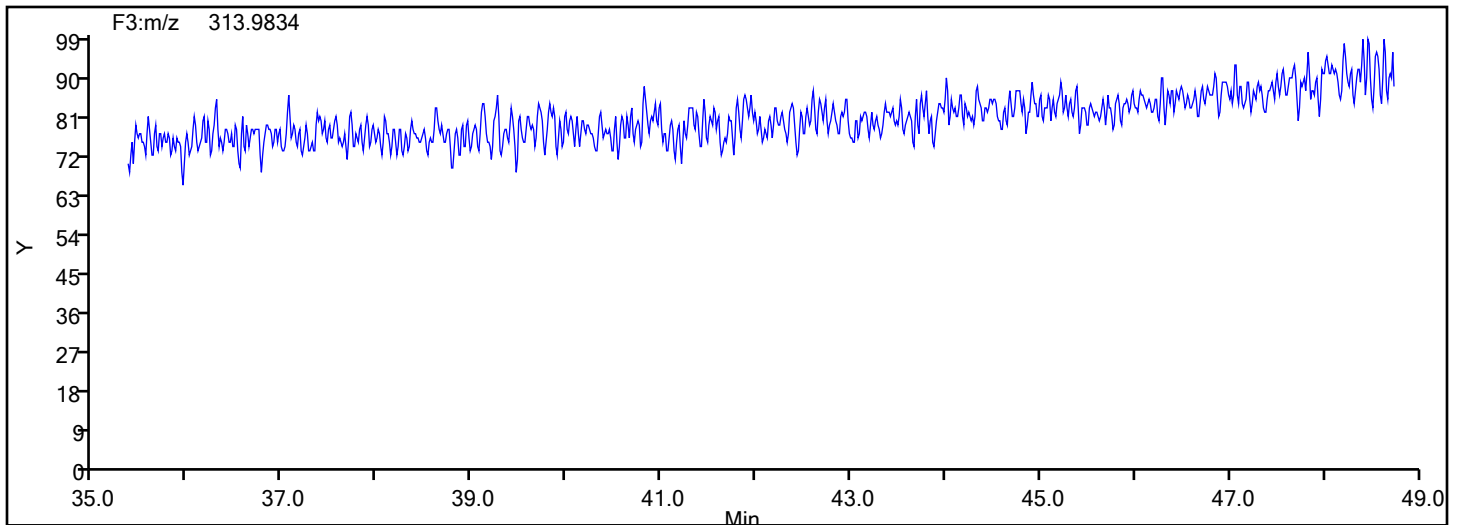
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HxPCB F3



## HxPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Instrument ID: D2D

Lims ID: LCSD 140-87624/20-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

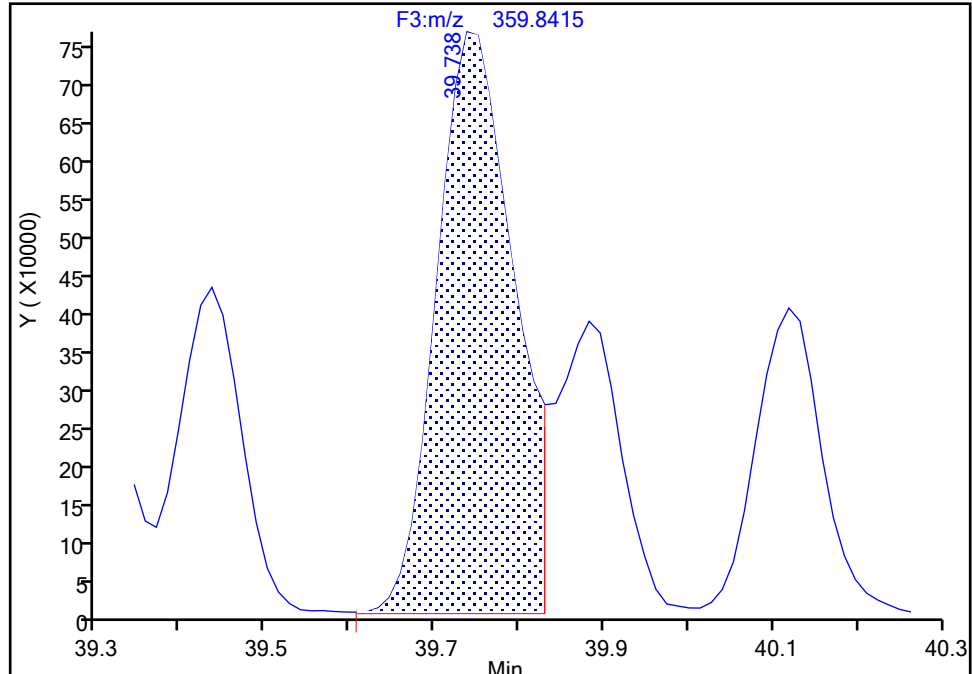
F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 1

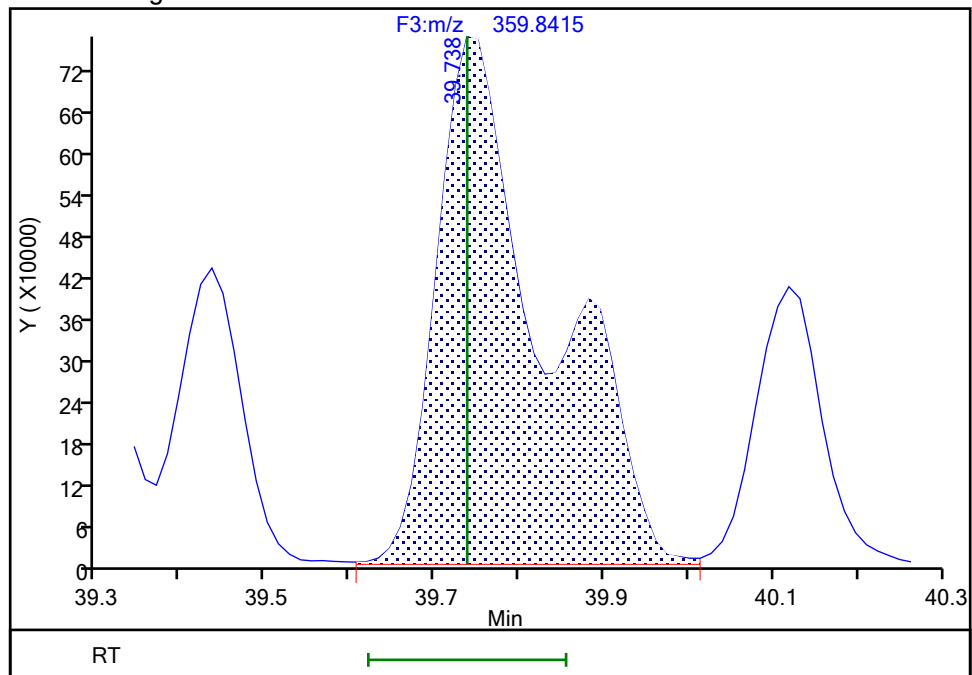
RT: 39.74  
Area: 4831103  
Amount: 138.6812  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.74  
Area: 6856764  
Amount: 192.7954  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 28-Jun-2024 01:28:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Instrument ID: D2D

Lims ID: LCSD 140-87624/20-B

Client ID:

Operator ID: Xcalibur\_System

ALS Bottle#:

0

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: PCBs\_D2D

Limit Group:

HR - EPA\_23 PCB ICAL

Column: SPB-Octyl ( 0.25 mm)

Detector

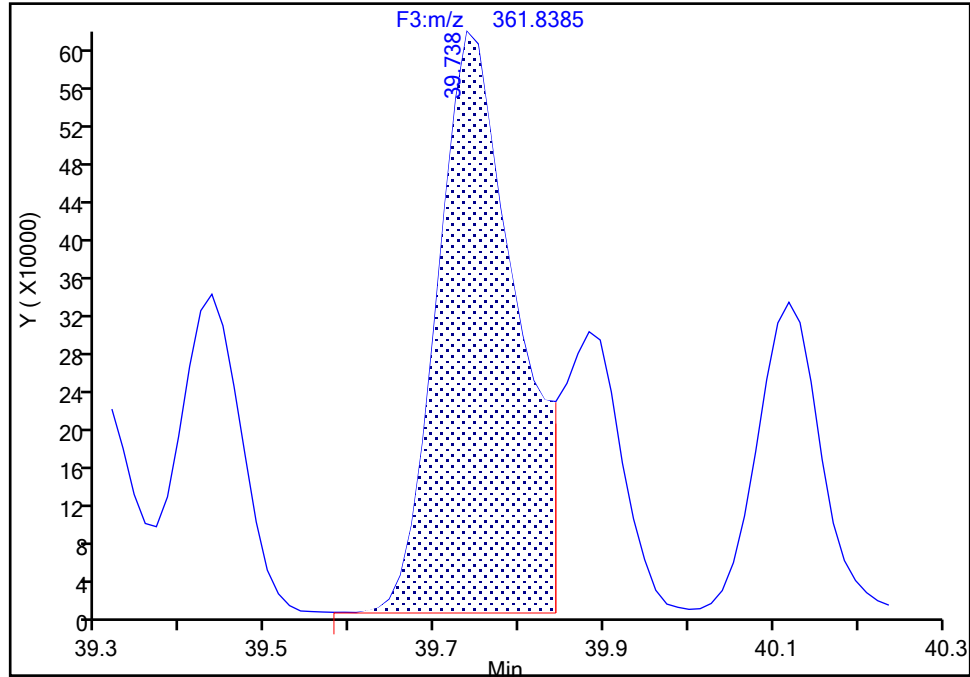
F3(35.64 :49.10 )

PCB-129/138/160/163, CAS: STL02296

Signal: 2

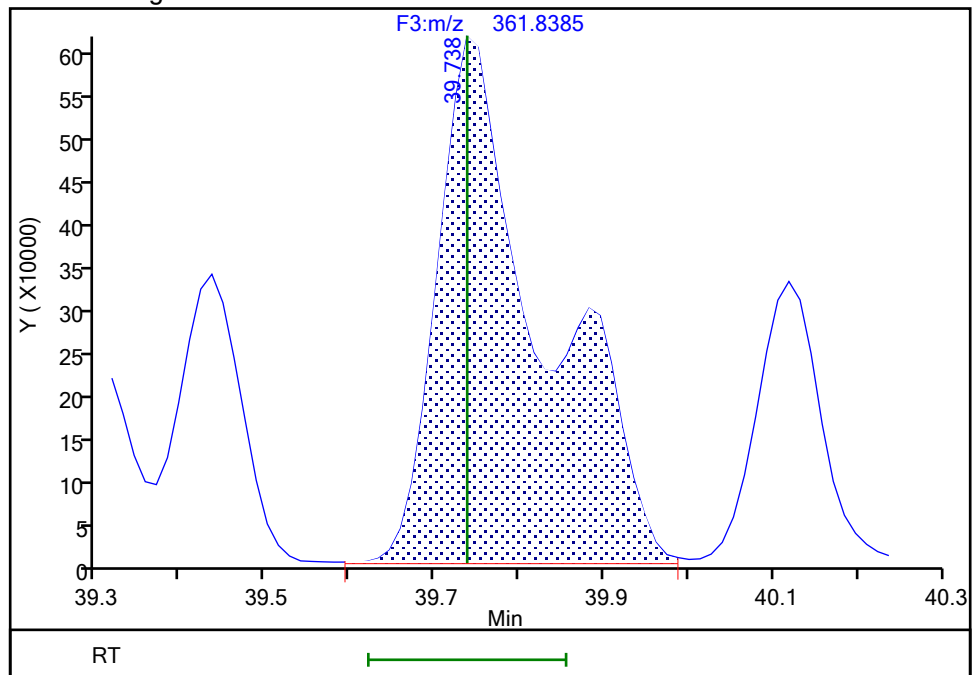
RT: 39.74  
Area: 3979288  
Amount: 138.6812  
Amount Units: pg/ul

## Processing Integration Results



RT: 39.74  
Area: 5391491  
Amount: 192.7954  
Amount Units: pg/ul

## Manual Integration Results



Reviewer: Q9DB, 28-Jun-2024 01:28:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

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BASFHWC-F-2024-05449

9/6/2024  
3:53:39 PM

Chrom Revision: 2.3 26-Jun-2024 16:13:32

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Vol: 1.0 ul

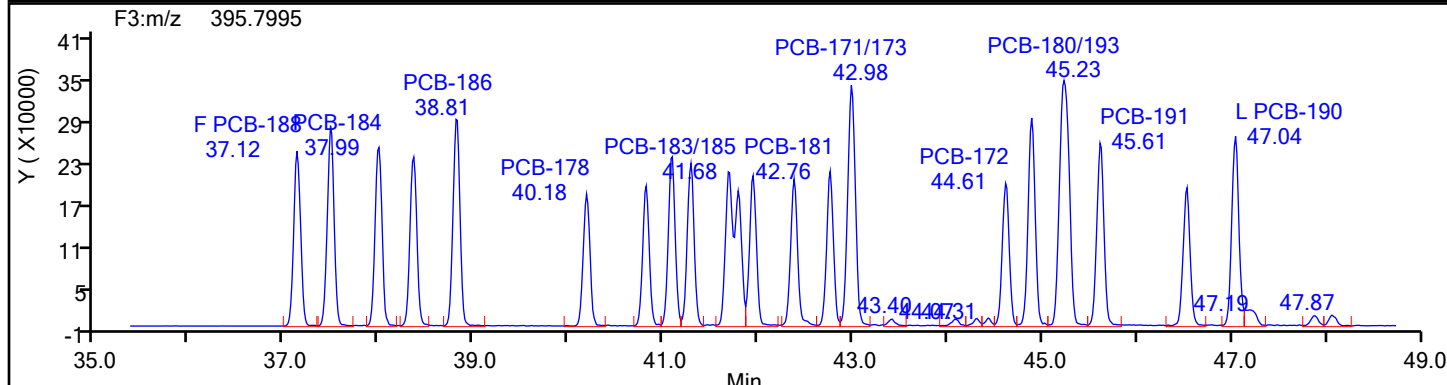
Operator ID: Xcalibur System

Limit Group: HR - EPA 23 PCB ICAL

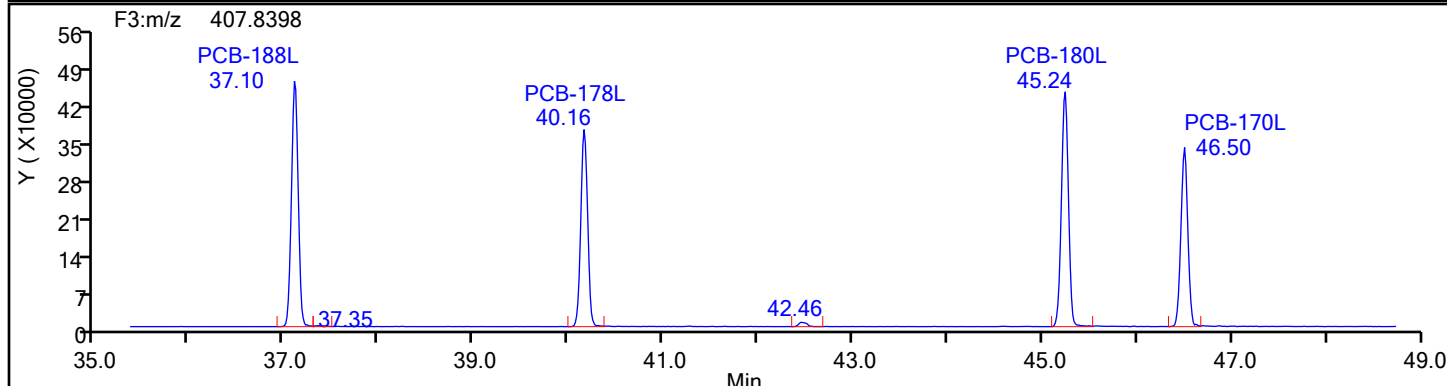
Sample Line#: 3

Column Dia: 0.25 mm

HpPCB F3



HpPCB F3 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

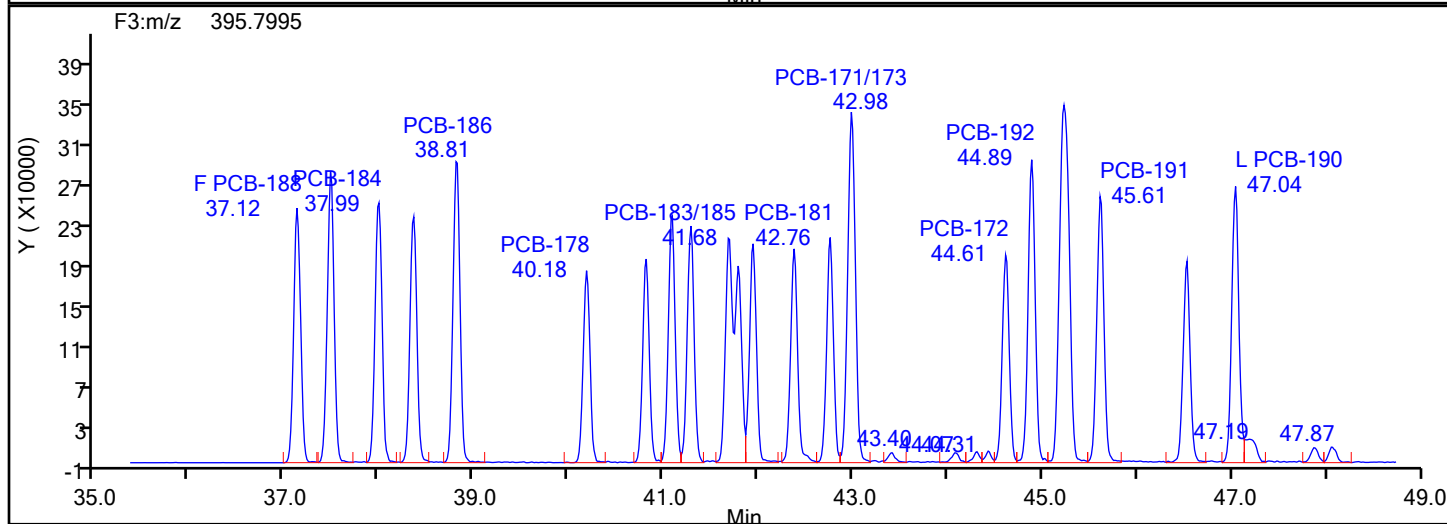
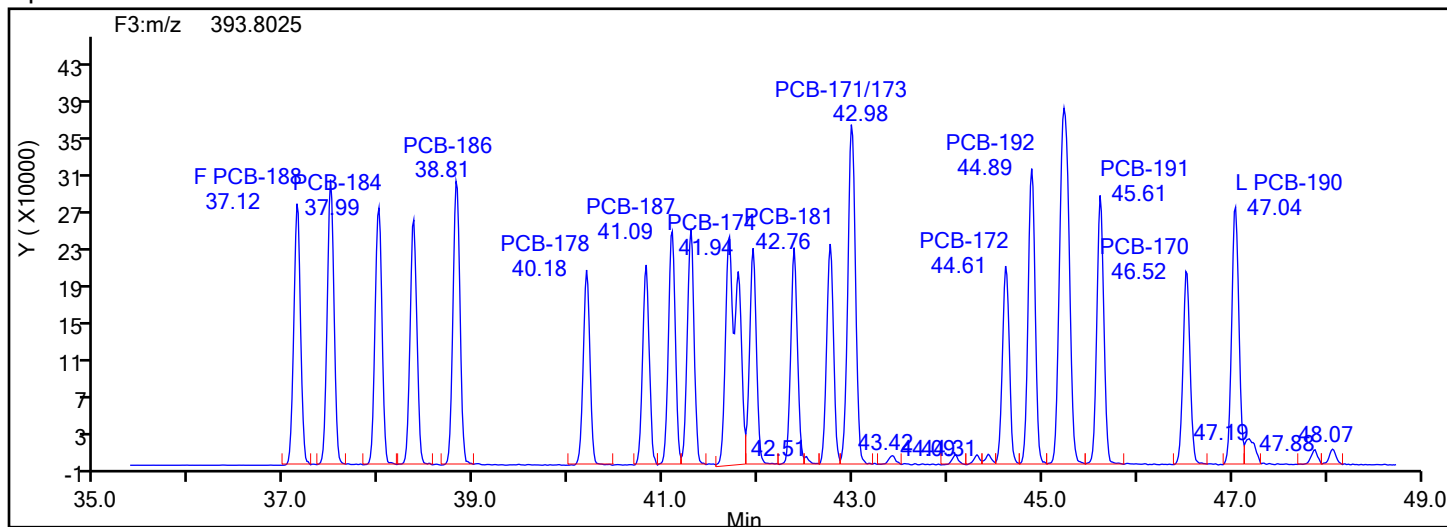
Worklist#: 88205

Sample Line#: 3

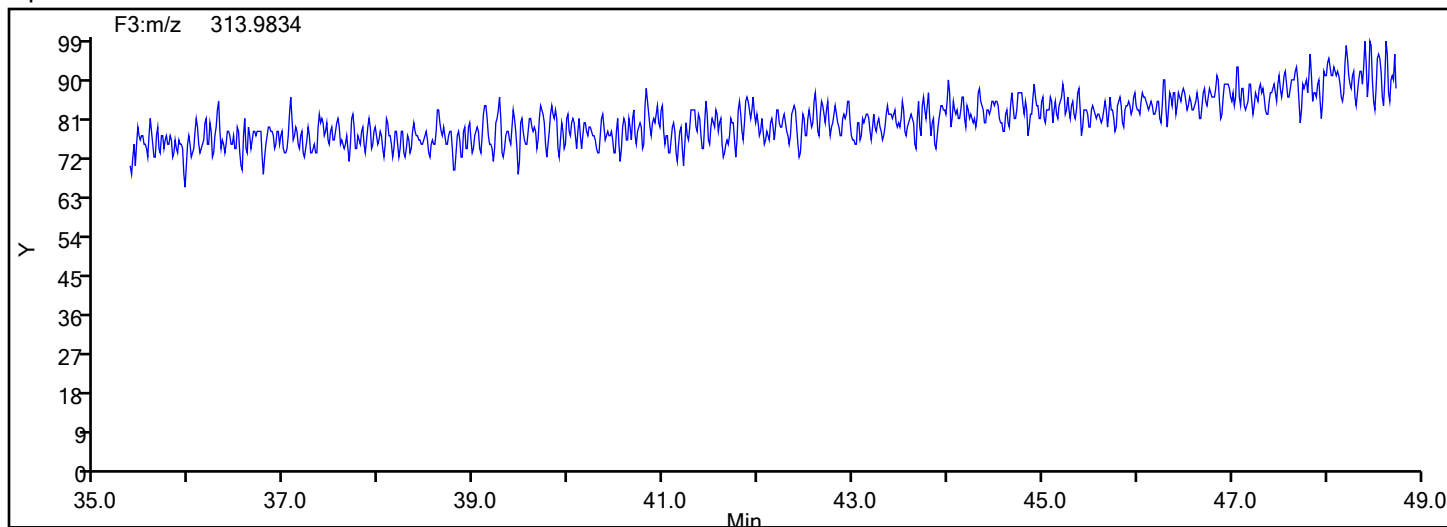
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F3



## HpPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

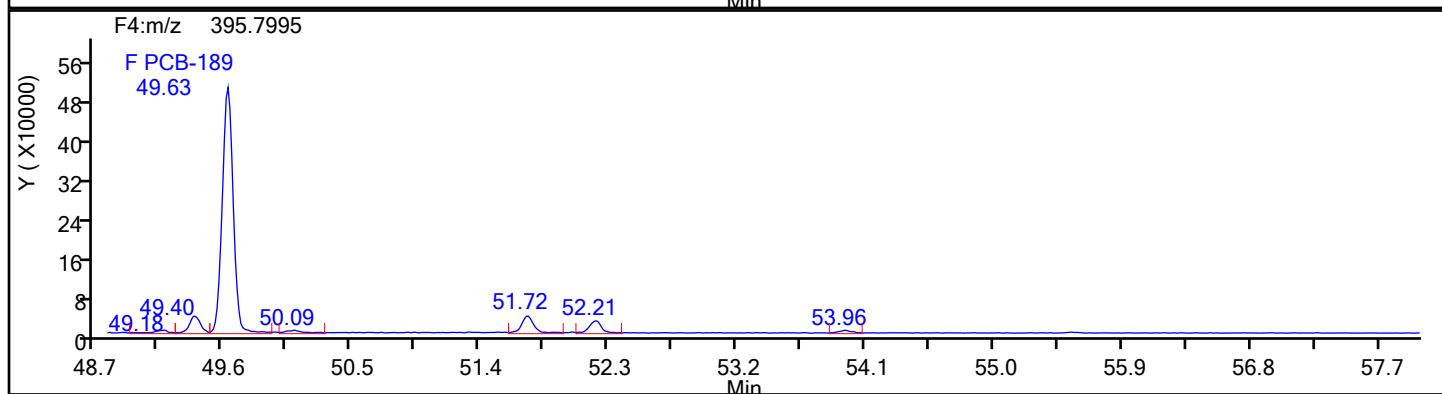
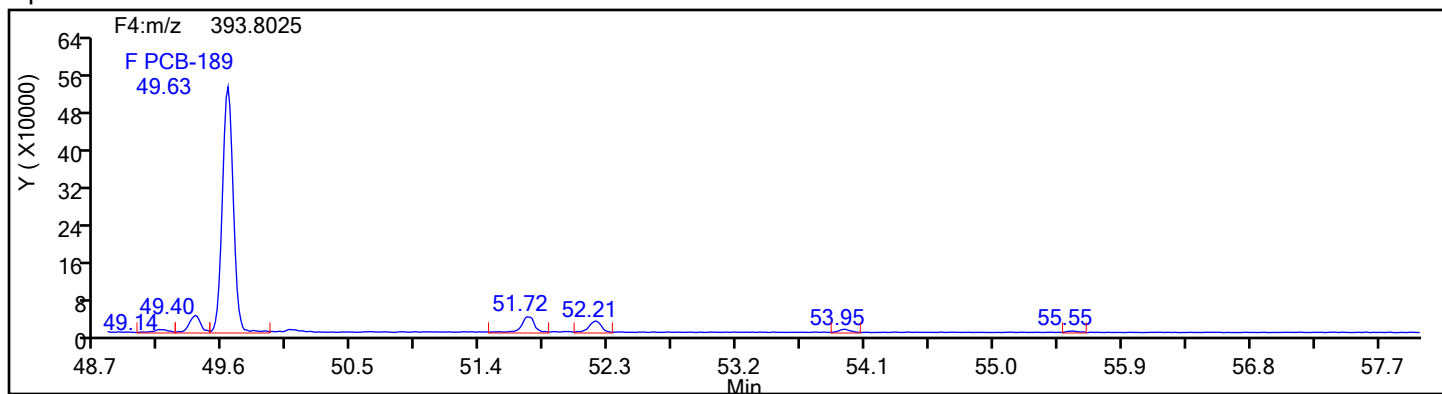
Worklist#: 88205

Sample Line#: 3

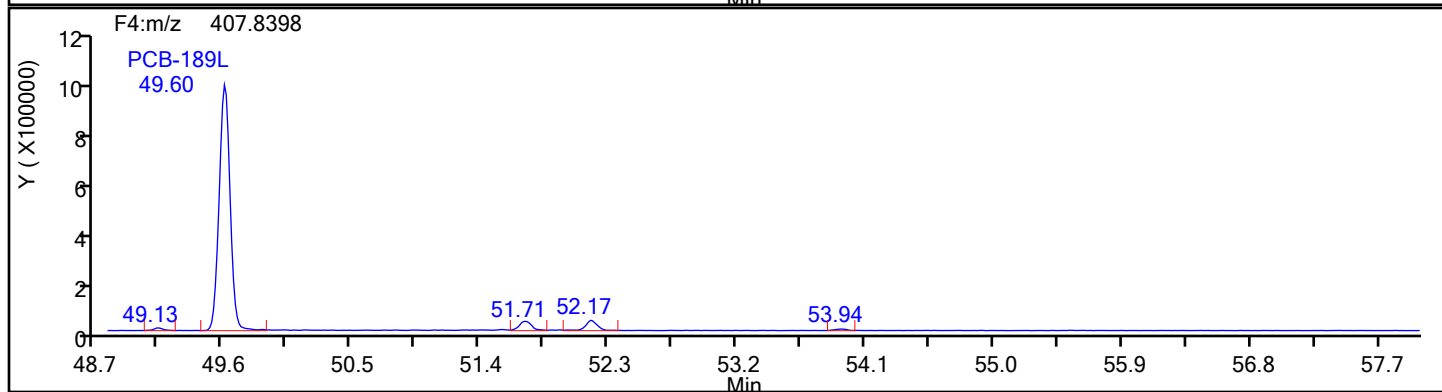
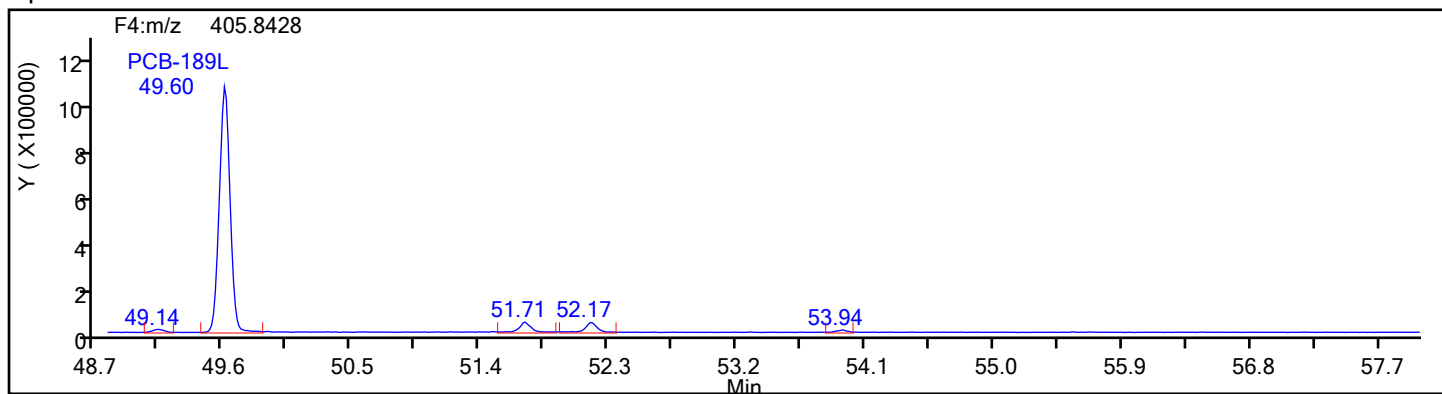
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

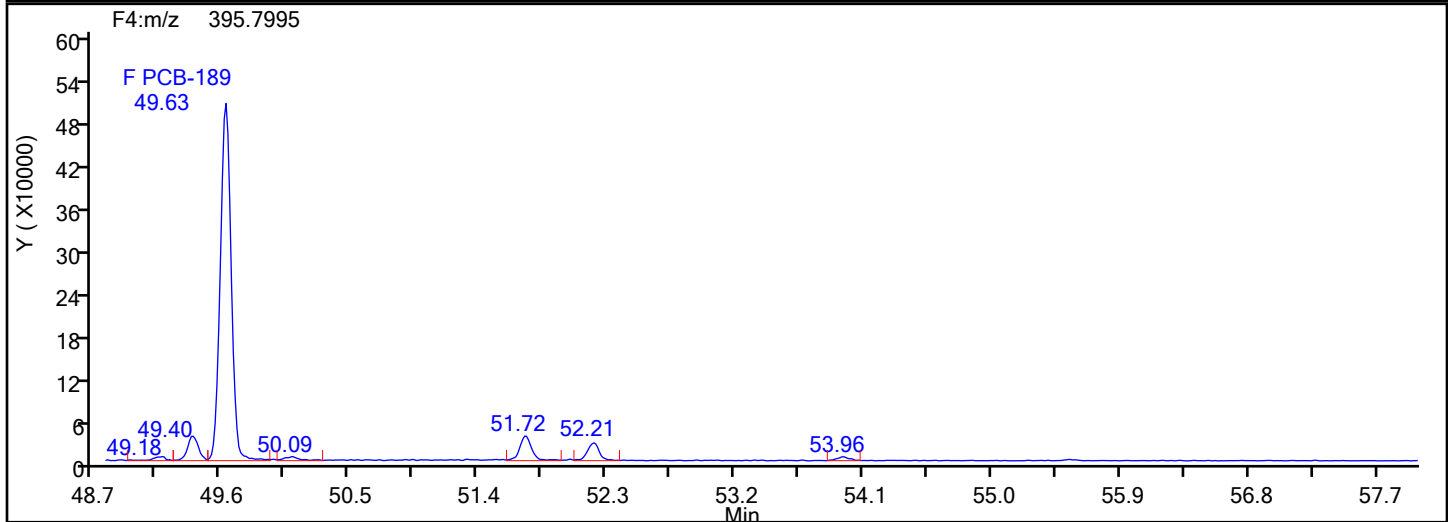
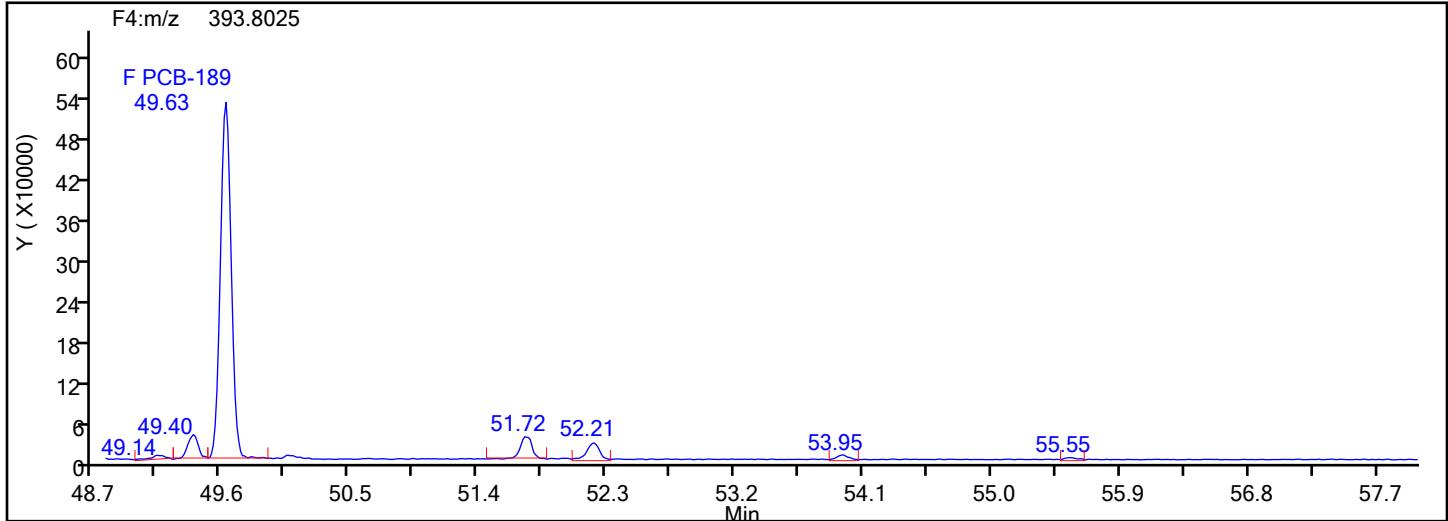
Worklist#: 88205

Sample Line#: 3

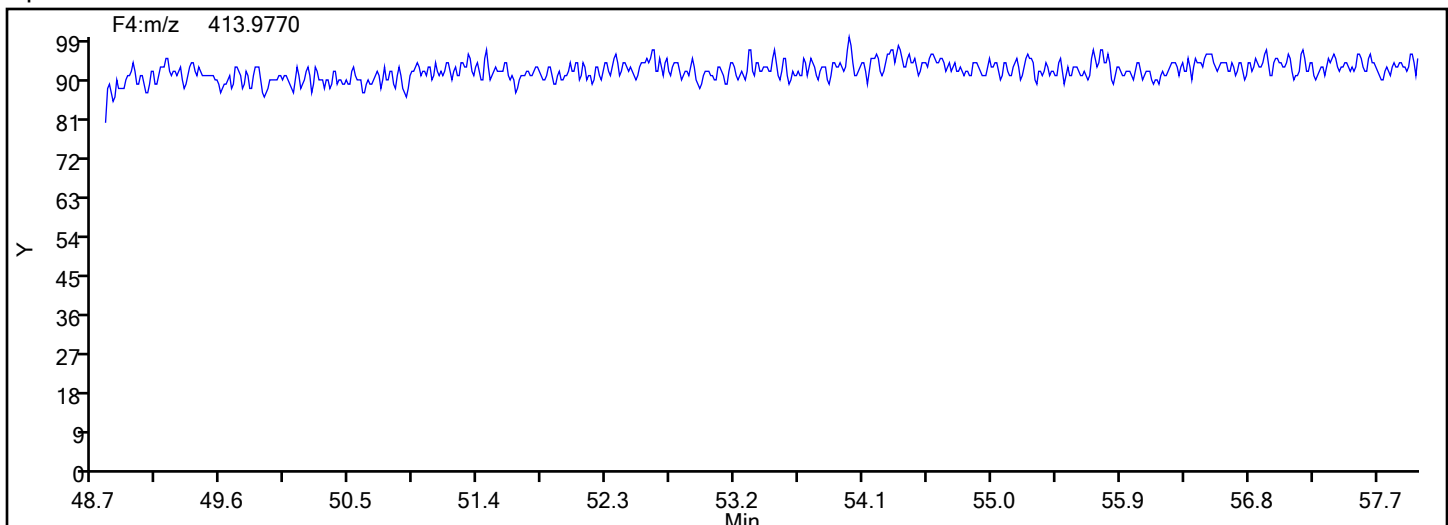
Column Type: SPB-Octyl

Column Dia: 0.25 mm

HpPCB F4



HpPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

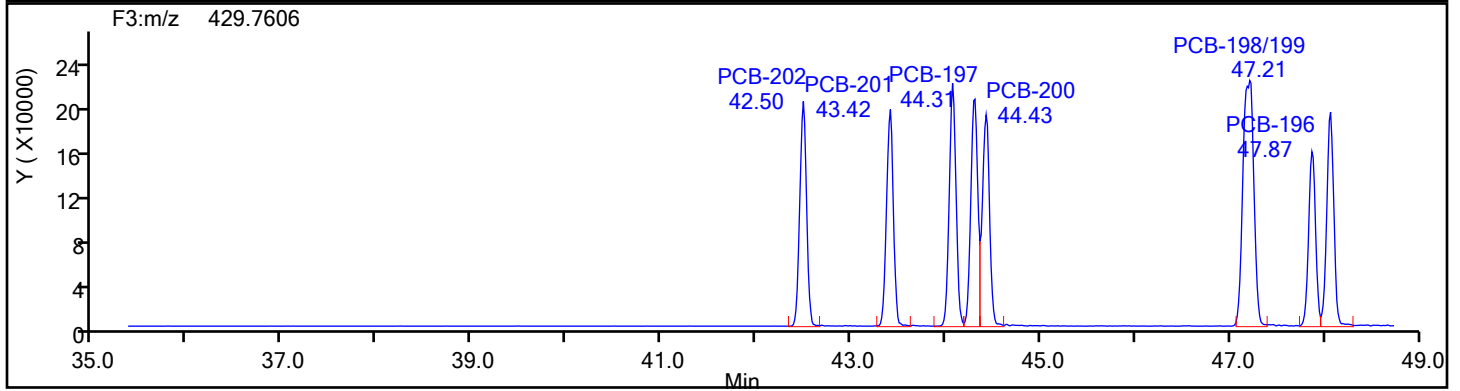
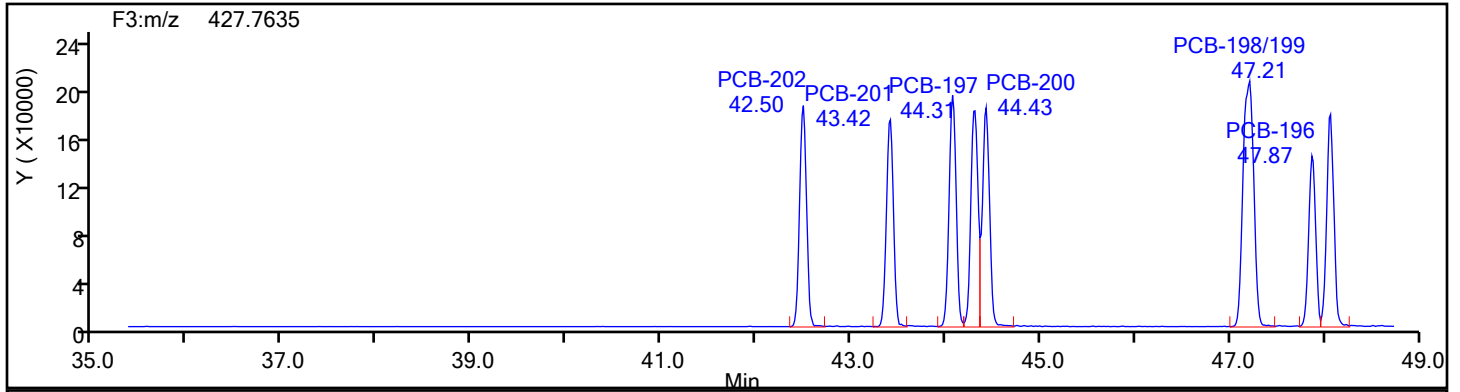
Worklist#: 88205

Sample Line#: 3

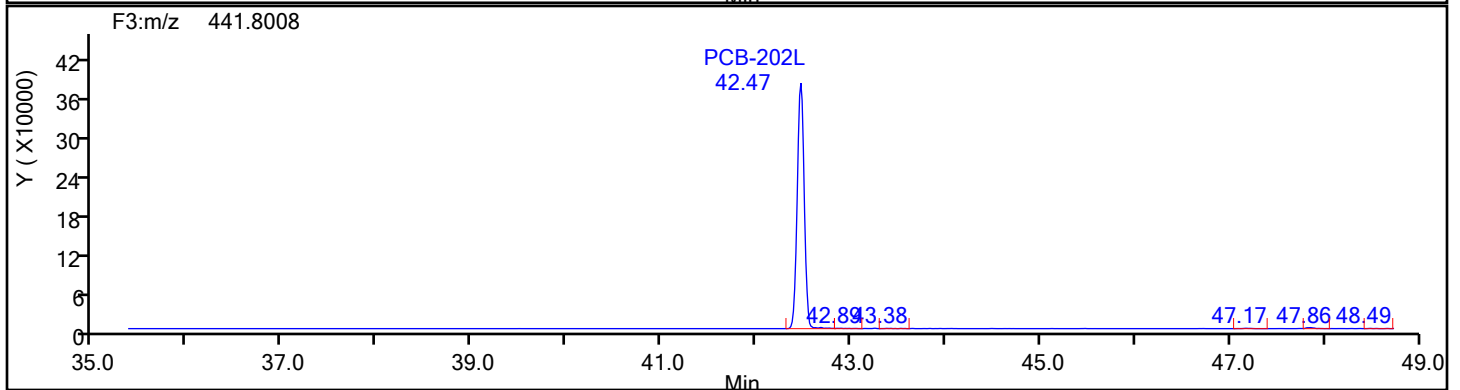
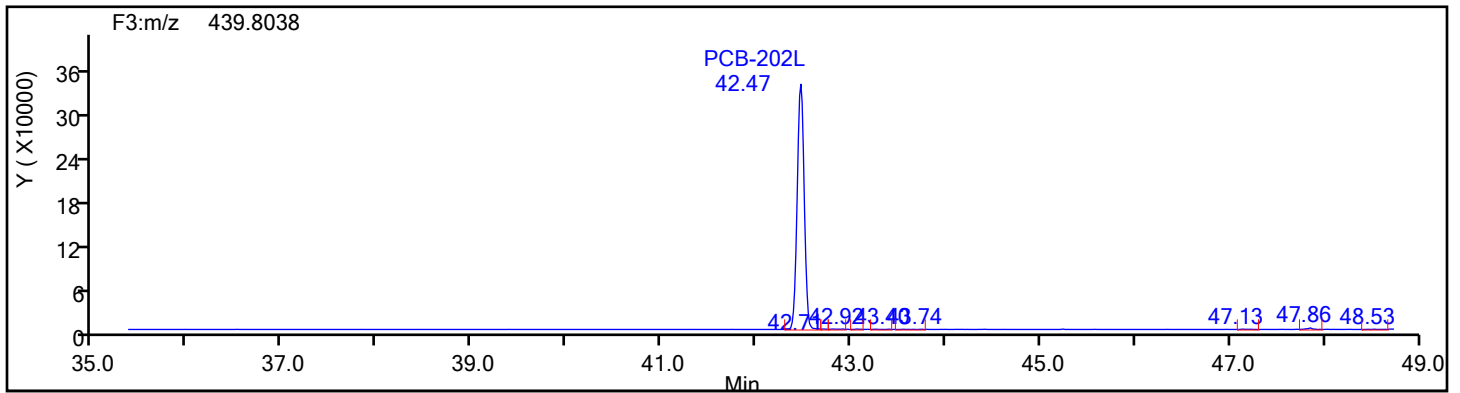
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



OcPCB F3 Standards





## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

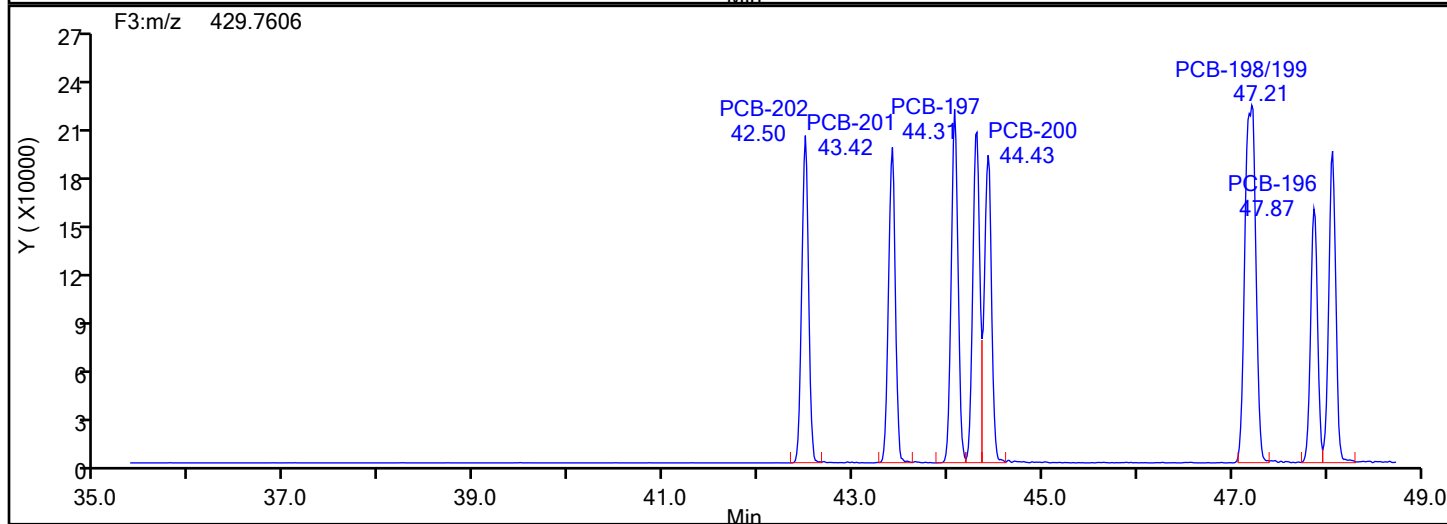
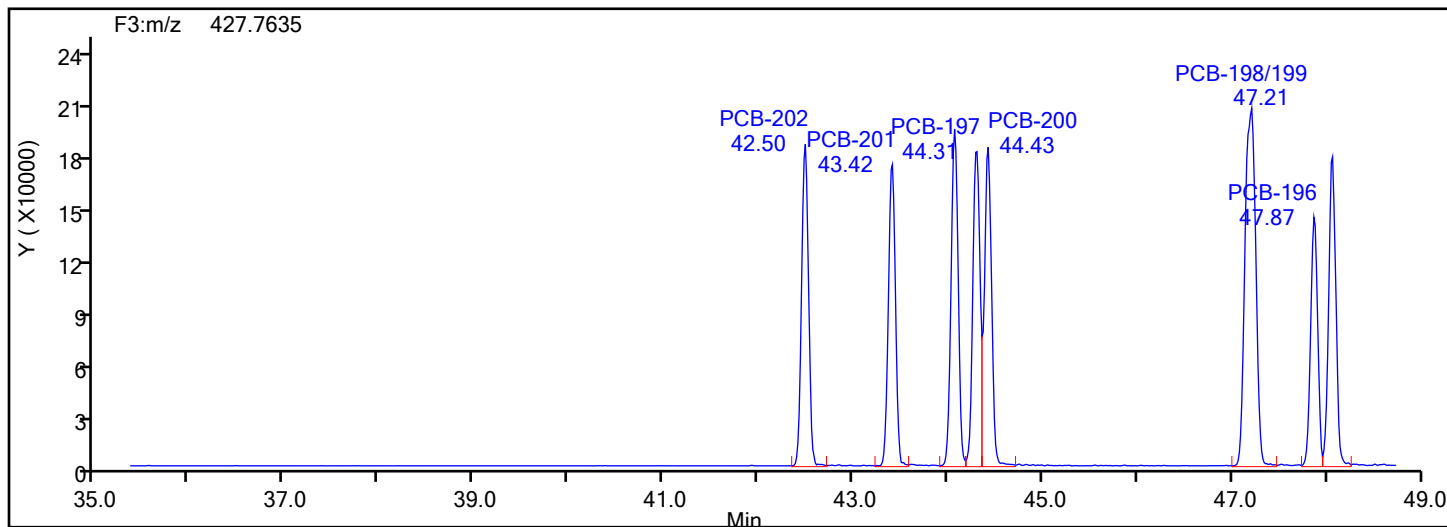
Worklist#: 88205

Sample Line#: 3

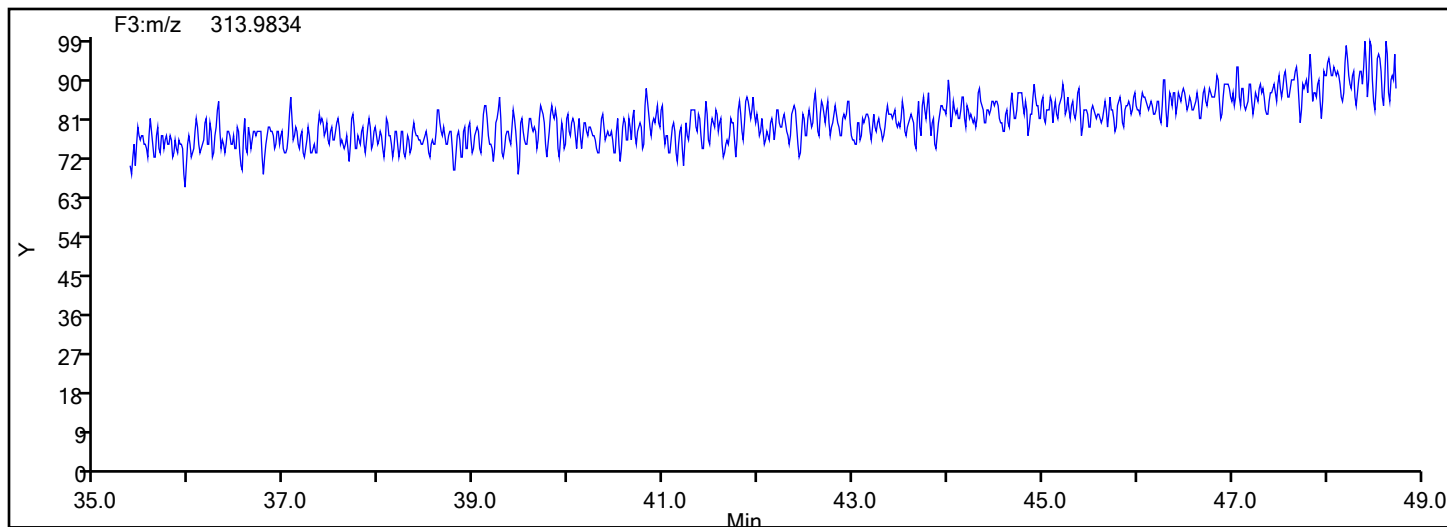
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F3



## OcPCB F3 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

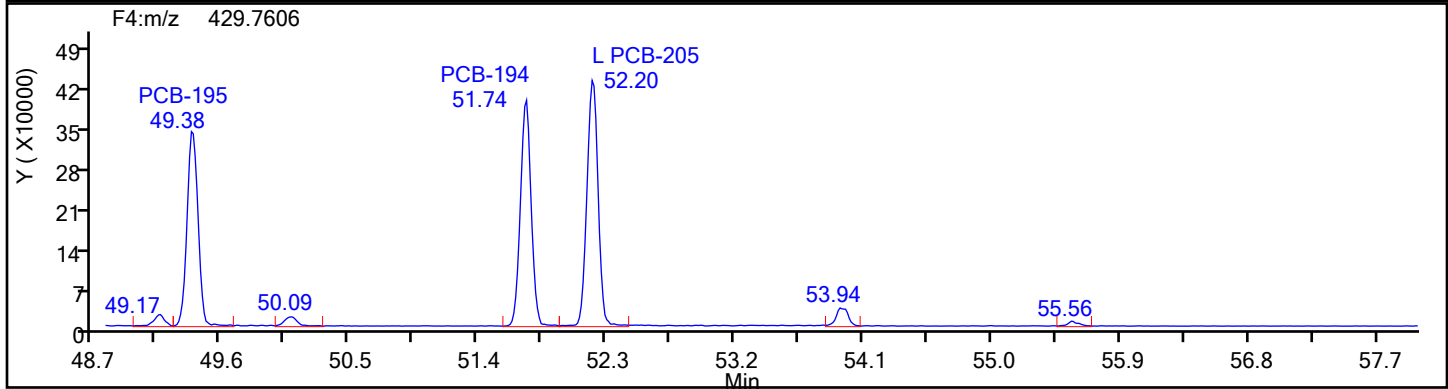
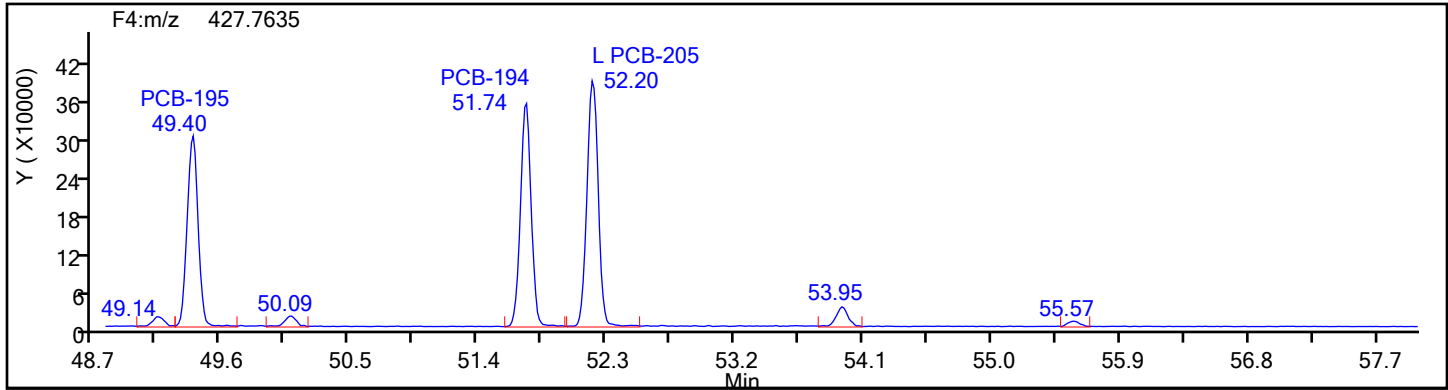
Worklist#: 88205

Sample Line#: 3

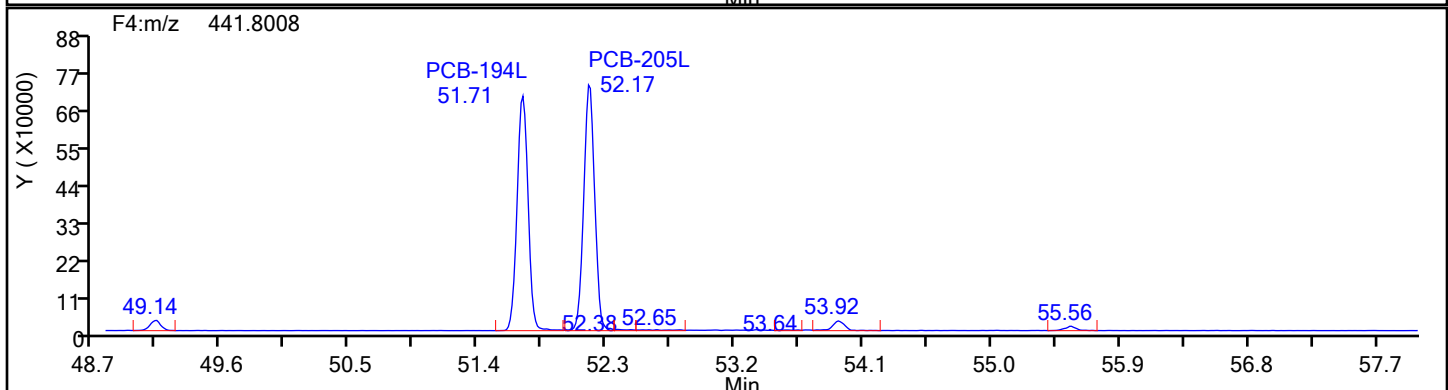
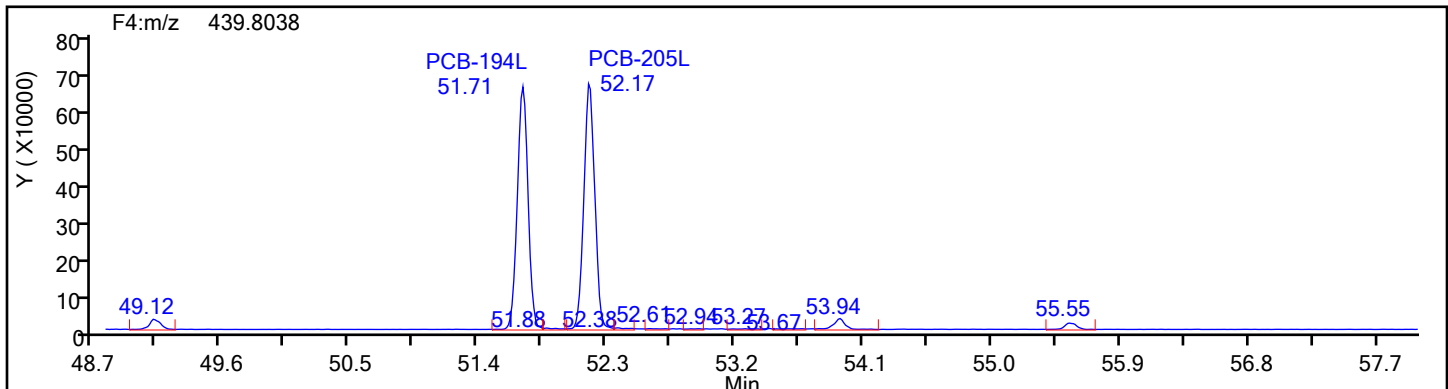
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



OcPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

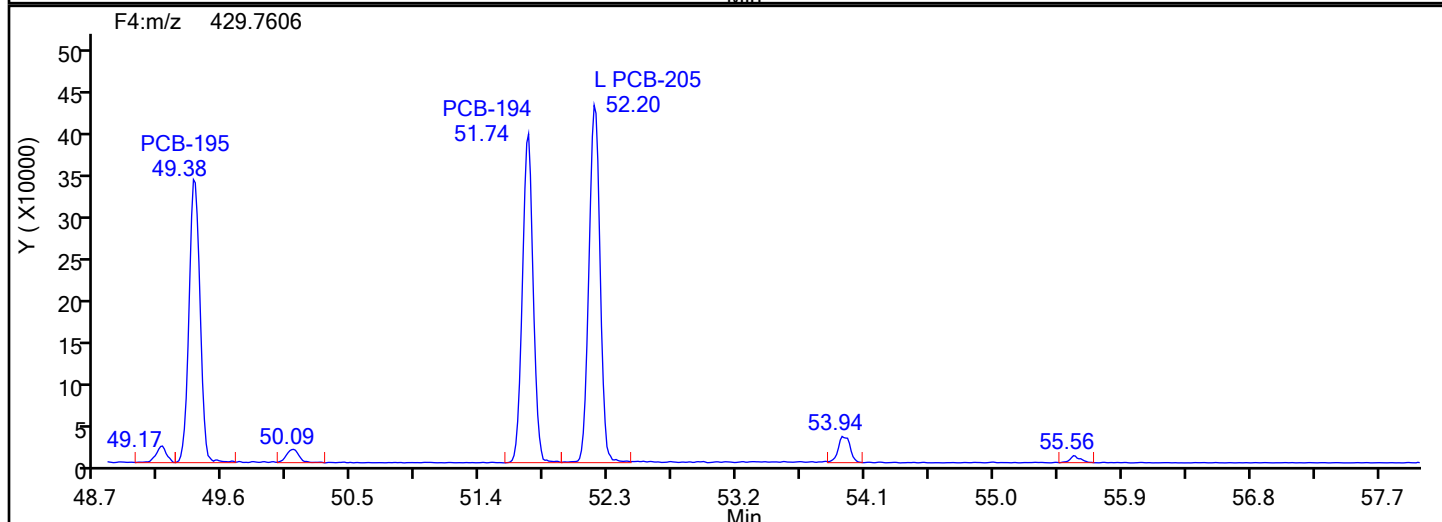
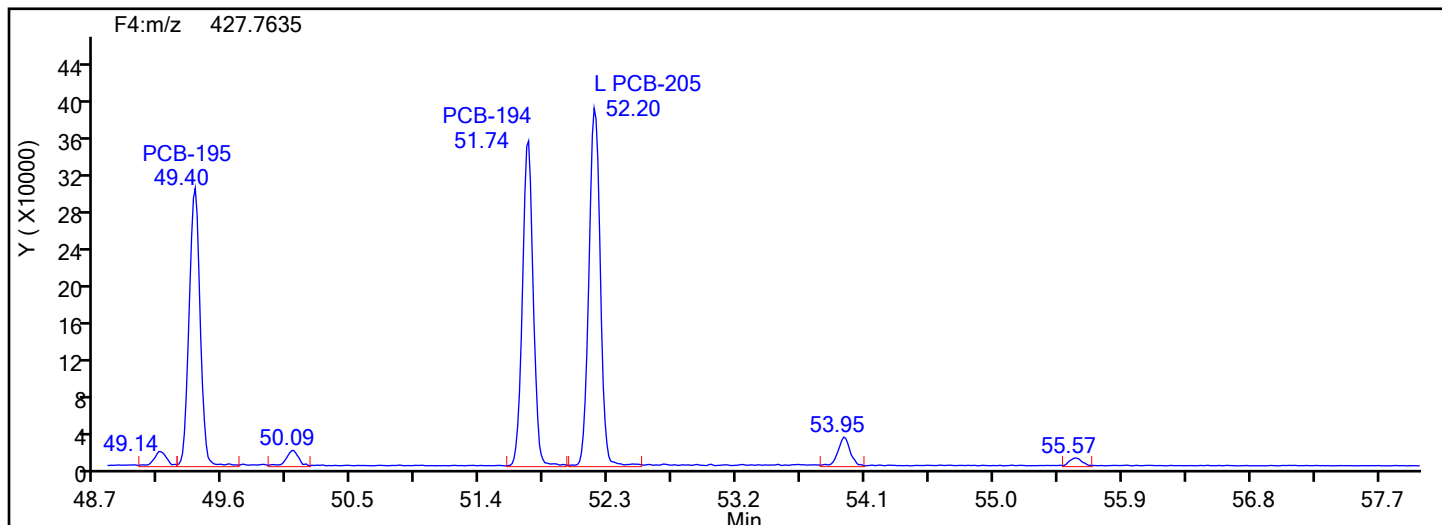
Worklist#: 88205

Sample Line#: 3

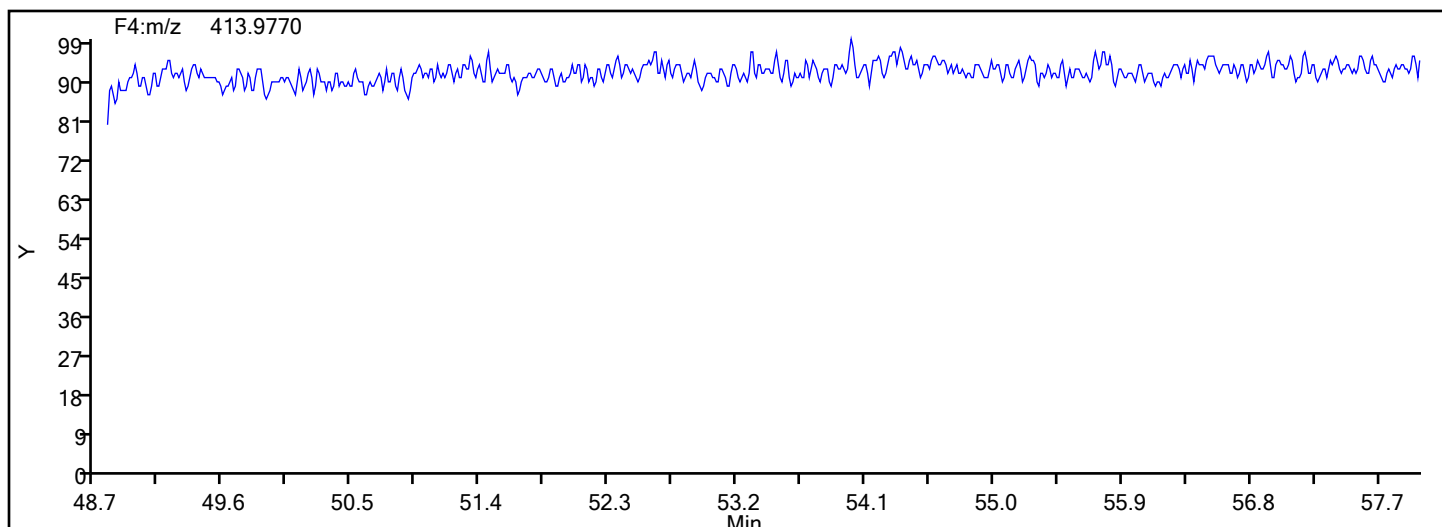
Column Type: SPB-Octyl

Column Dia: 0.25 mm

OcPCB F4



## OcPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

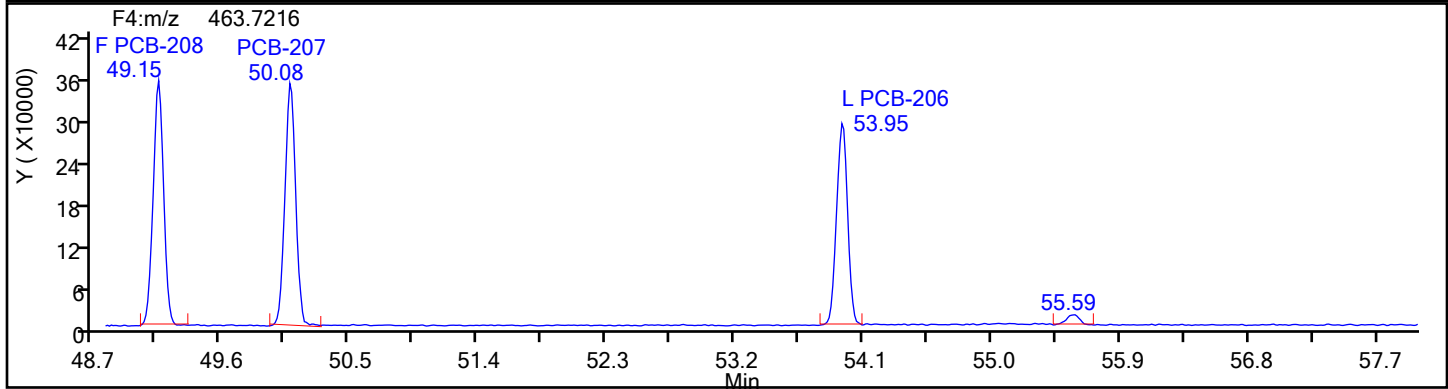
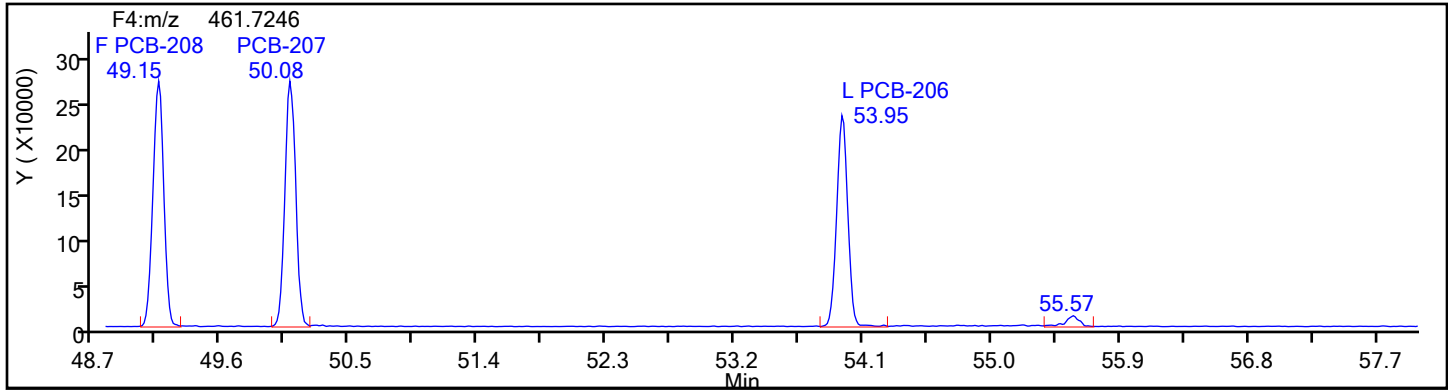
Worklist#: 88205

Sample Line#: 3

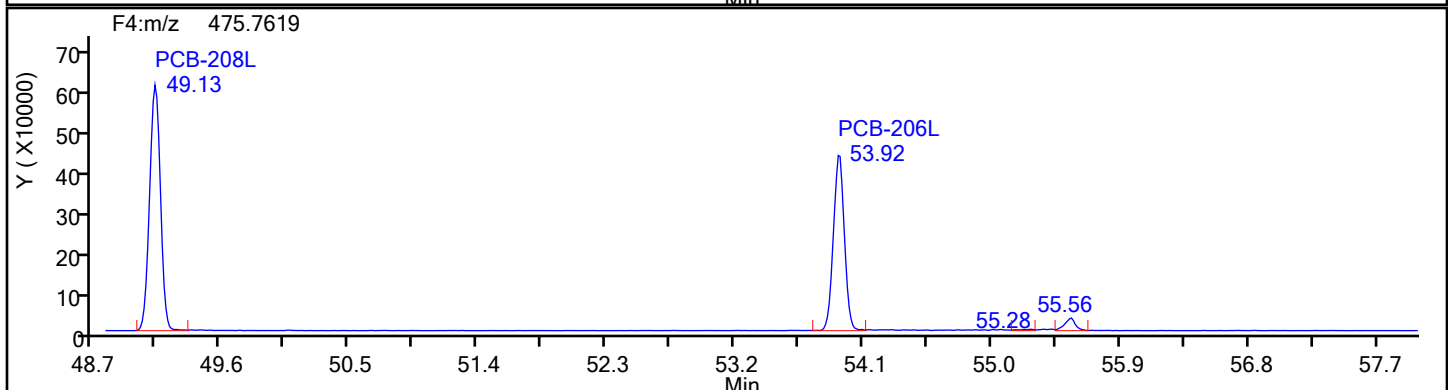
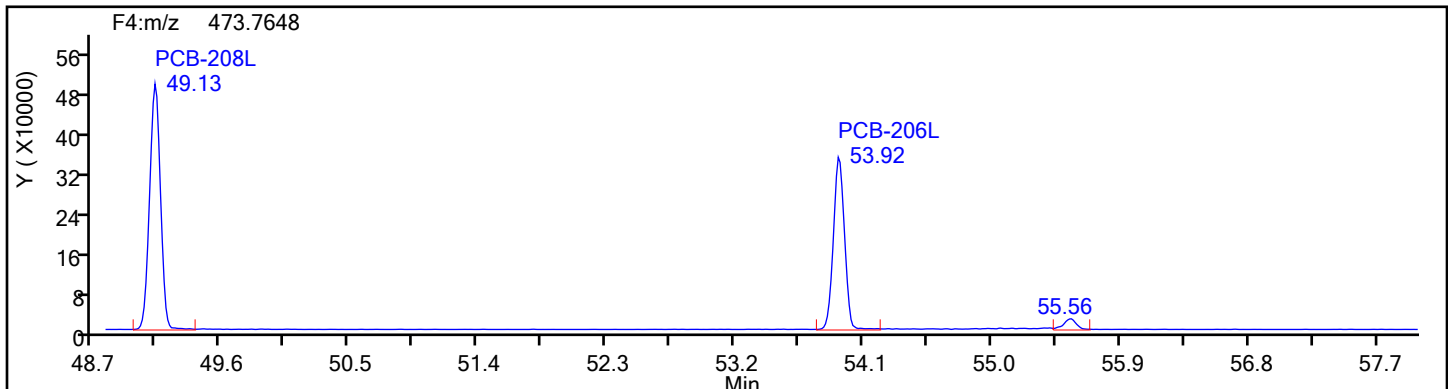
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

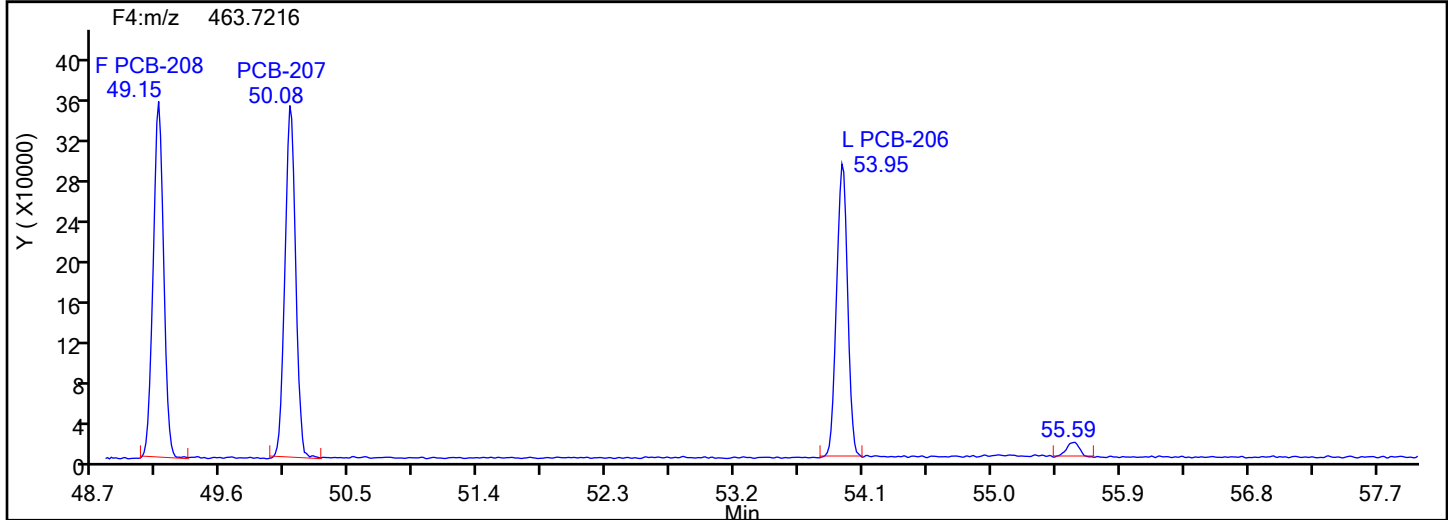
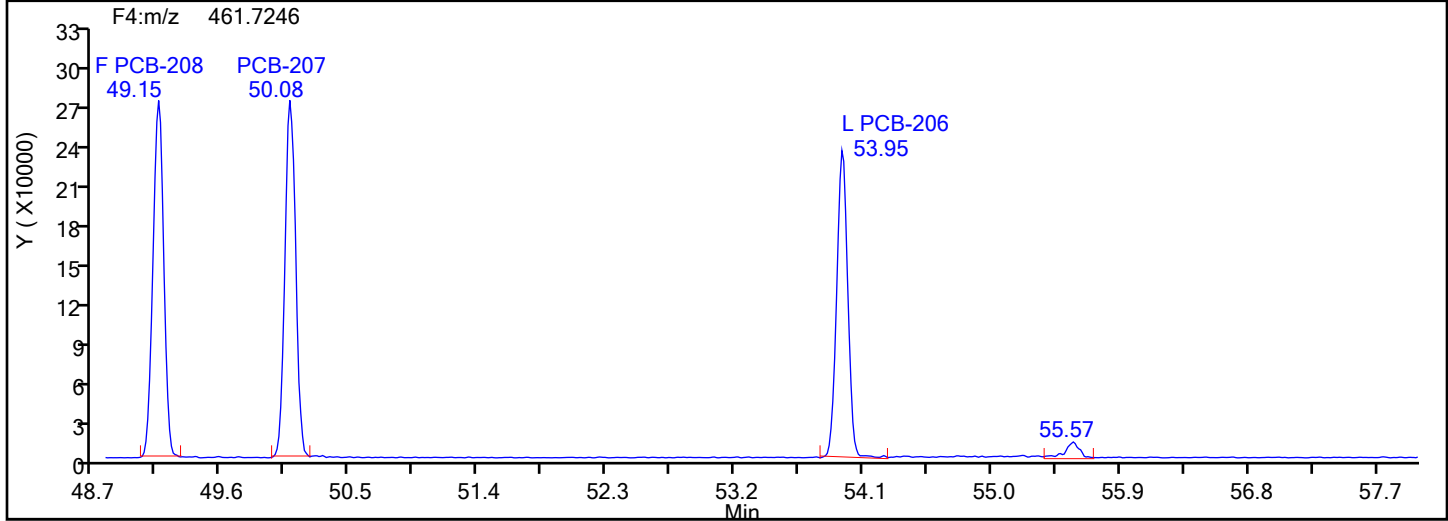
Worklist#: 88205

Sample Line#: 3

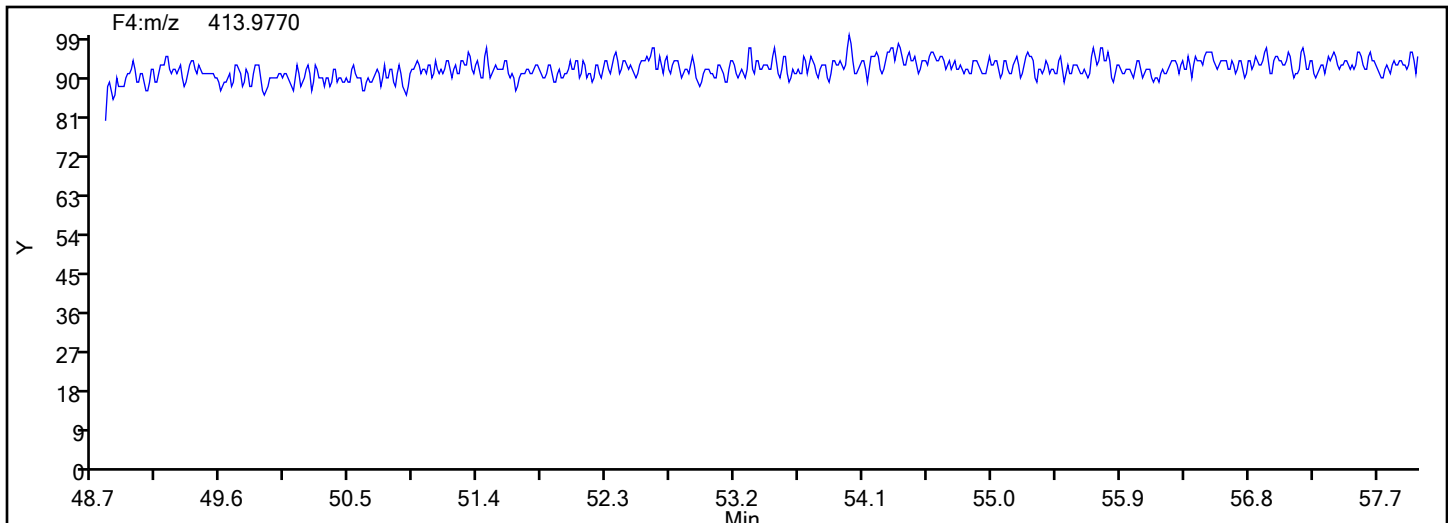
Column Type: SPB-Octyl

Column Dia: 0.25 mm

NoPCB F4



NoPCB F4 Lock Mass



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

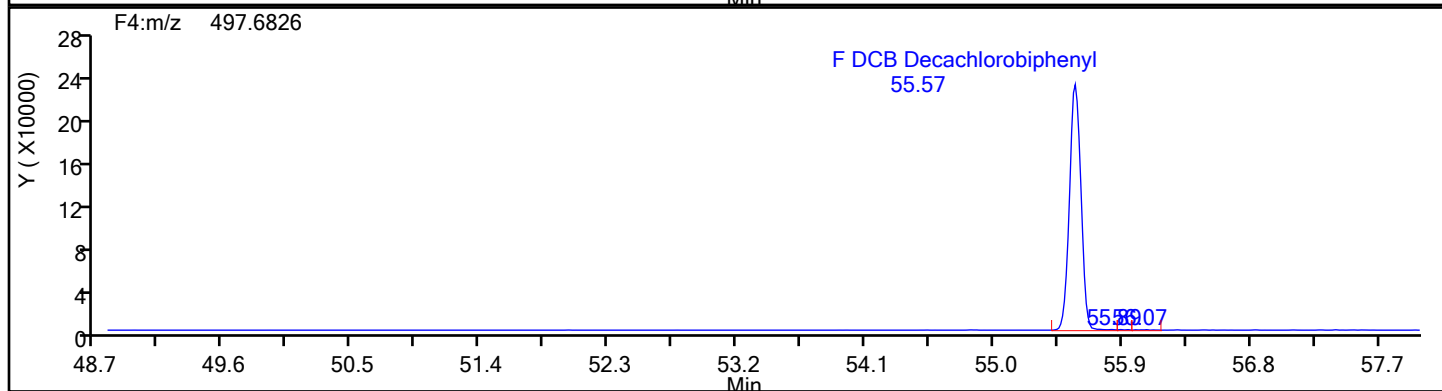
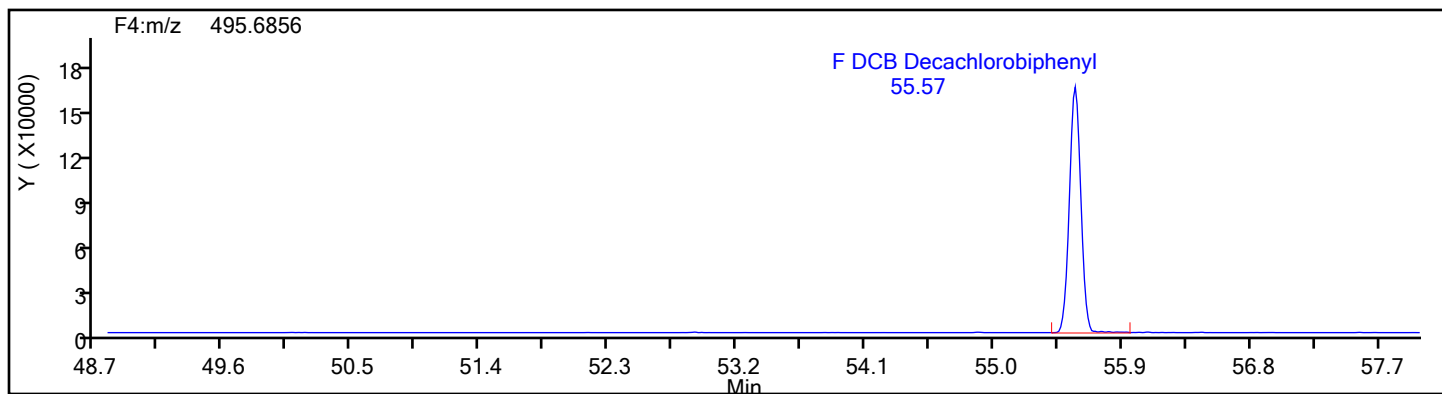
Worklist#: 88205

Sample Line#: 3

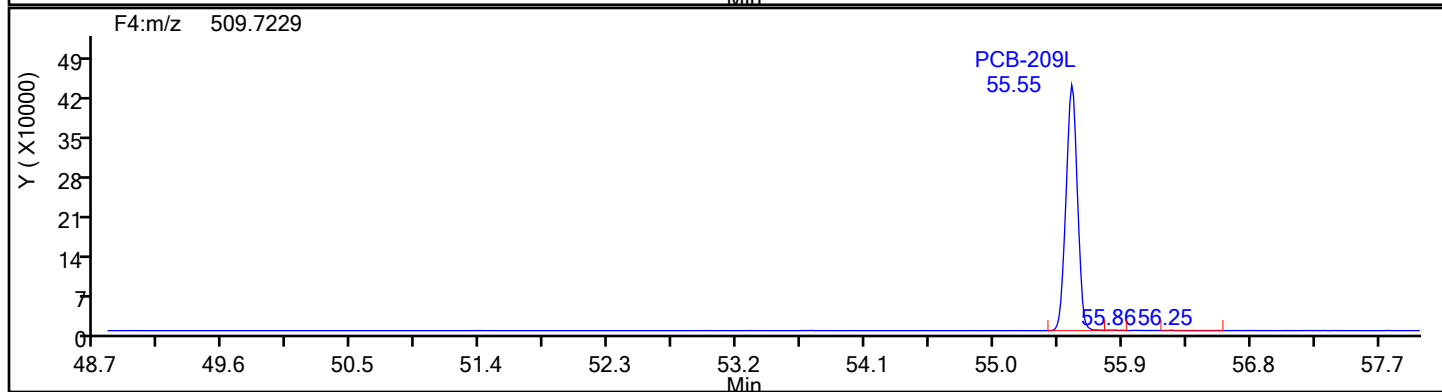
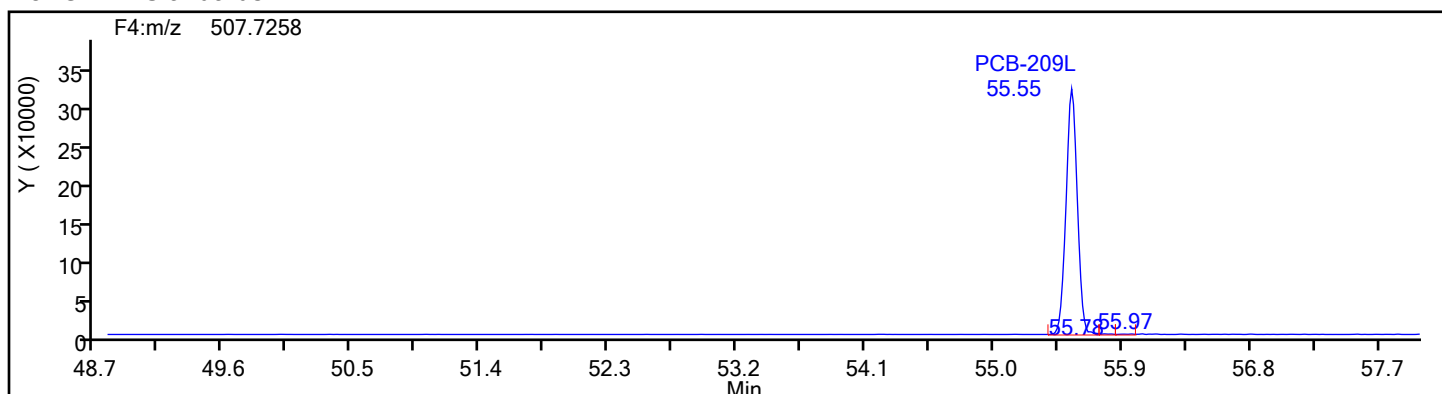
Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



DePCB F4 Standards



## Eurofins Knoxville

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d

Injection Date: 28-Jun-2024 00:12:00

Injection Vol: 1.0 ul

Instrument ID: D2D

Operator ID: Xcalibur\_System

Method: PCBs\_D2D

Limit Group: HR - EPA\_23 PCB ICAL

Client ID:

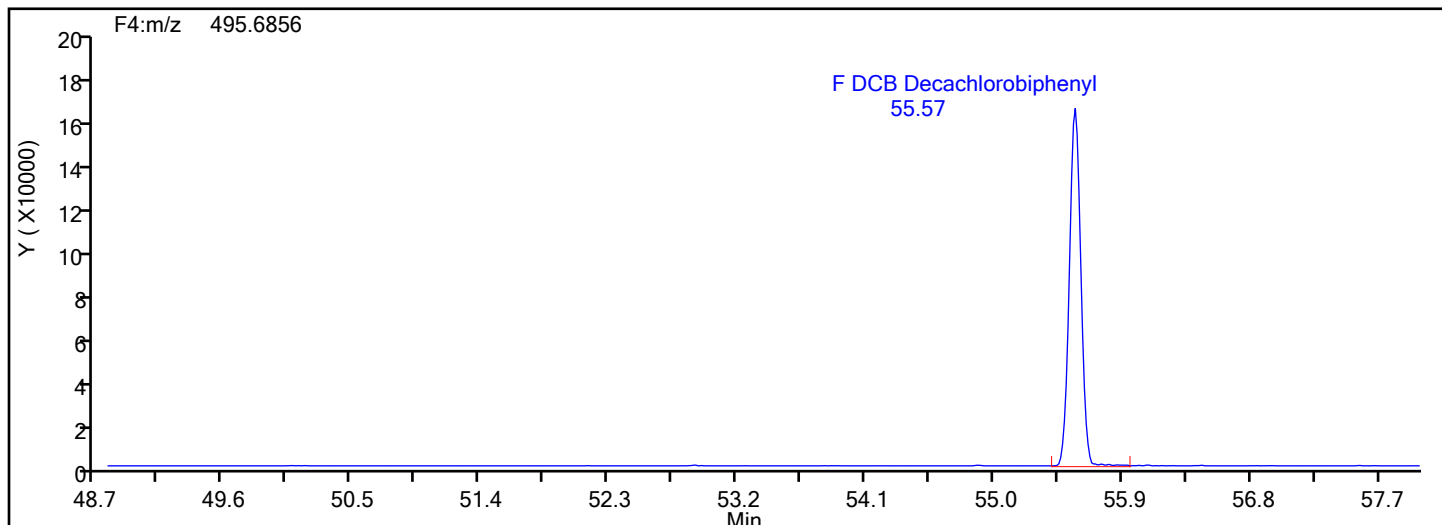
Worklist#: 88205

Sample Line#: 3

Column Type: SPB-Octyl

Column Dia: 0.25 mm

DePCB F4



Eurofins Knoxville  
Recovery Report

Data File: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\lcsd140-8762420-b.d  
Lims ID: LCSD 140-87624/20-B  
Client ID:  
Sample Type: LCSD  
Inject. Date: 28-Jun-2024 00:12:00 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Sample Info:  
Misc. Info.: 140-0033294-003  
Operator ID: Xcalibur\_System Instrument ID: D2D  
Method: \\chromfs\Knoxville\ChromData\D2D\20240627-33294.b\PCBs\_D2D.m  
Limit Group: HR - EPA\_23 PCB ICAL  
Last Update: 28-Jun-2024 01:30:32 Calib Date: 31-May-2024 21:13:00  
Integrator: Picker  
Quant Method: Isotopic Dilution Quant By: Initial Calibration  
Last ICal File: \\chromfs\Knoxville\ChromData\D2D\20240529-32883.b\d2240531pi6.d  
Column 1 : SPB-Octyl ( 0.25 mm) Det: F1(11.07 :21.70 )  
Process Host: CTX1639

First Level Reviewer: Q9DB

Date: 28-Jun-2024 01:30:32

Compound	Amount Added	Amount Recovered	% Rec.
PCB-28L	100.0	72.4	72.37
PCB-111L	100.0	78.8	78.79
PCB-178L	100.0	79.3	79.28



# HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Start Date: 05/31/2024 14:36

Analysis Batch Number: 87130 End Date: 05/31/2024 22:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 140-87130/1		05/31/2024 14:36	1	d2240531pi1a.d	SPB-Octyl 0.25 (mm)
IC 140-87130/2		05/31/2024 16:53	1	d2240531pi2a.d	SPB-Octyl 0.25 (mm)
IC 140-87130/3		05/31/2024 18:00	1	d2240531pi3.d	SPB-Octyl 0.25 (mm)
IC 140-87130/4		05/31/2024 19:10	1	d2240531pi4.d	SPB-Octyl 0.25 (mm)
IC 140-87130/5		05/31/2024 20:12	1	d2240531pi5.d	SPB-Octyl 0.25 (mm)
IC 140-87130/6		05/31/2024 21:13	1	d2240531pi6.d	SPB-Octyl 0.25 (mm)
ICV 140-87130/7		05/31/2024 22:58	1	d2240531icv.d	SPB-Octyl 0.25 (mm)

**Eurofins Knoxville HRMS PCB GC/MS Initial Calibration Data Review Checklist**  
**Method 1668 or SOP Number: KNOX-ID-0013 Revision 21**

Mass Res Date/Time:	5/31/24 12:51	Inst:	D2D	ICal Event #s	5117 5118 5119 (EPA_23 PCB) (1668C) (1668A)
Chrom WL #:	32883	ADII Batch #'s	87130 87131 87132 (EPA_23 PCB) (1668C) (1668A)	2nd Source Filename	d2240531.icv

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd ✓
1. Was the mass resolution documented before beginning the initial calibration?		✓			✓
2. Was the instrument resolution $\geq 8,000$ throughout ( $\geq 10,000$ for m/z 342.9792, PFK) and $\geq 10,000$ in the center of each m/z range for the PFK masses or FC43 masses?		✓			✓
3. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			✓
4. Have PCB Mixes 1 - 5 been analyzed using the installed column to assign congener retention times, method retention times, and MID switch points?		✓			✓
5. Were the calibration standard solutions, at the number and concentrations specified in the SOP, analyzed?		✓			✓
6. Was date/time of analysis verified as correct?		✓			✓
7. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187 in the CS3 standard?		✓			✓
8. Did the PCB co-elution 156/157 co-max within 2 seconds at peak maximum on the SPB-octyl?		✓			✓
9. Was the absolute retention time of PCB 209 greater than 55 minutes in the CS3 standard?		✓			✓
10. Were the response factors calculated for each labeled standard and unlabeled native analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		✓			✓
11. Is the %RSD acceptable for all native analytes (within $\pm 20\%$ calculated by IDAs, and within $\pm 35\%$ when not calculated by IDAs)?		✓			✓
12. Is the %RSD acceptable (within $\pm 35\%$ ) for all labeled standards?		✓			✓
13. Are all S/N ratios $\geq 10$ for the GC signals in each EICP (extracted ion chromatographic profile) including IDAs? (Exception: Secondary native dichloro biphenyl channel m/z 223.9974, PFK)		✓			✓
14. Are the ion abundance ratios for all native Toxics/LOCs and all labeled compounds within the control limits specified? (Exception: Native dichlorobiphenyls, PFK) (Table 9)		✓			✓
15. Were all toxic congeners uniquely resolved from non-toxic congeners?		✓			✓
16. Was an ICV analyzed and calculated according to Section 10.3.5 of the SOP?		✓		< 5 outliers, none more than $\pm 50\%$ D.	✓
17. If manual integrations were performed, are the analyst's name, reason and date noted in AD II?		✓			✓
18. If criteria were not met, was a NCM generated?	✓				NA
19. Do the ICAL AD II batches contain a completed checklist for this work list?		✓			✓
20. Verify the limit groups are picked correctly in the WL.		✓			✓
21. Are the reagents correct in the reagent tab?		✓			✓
22. First level "unlock/ clear" or "unlock clear by sublist" as appropriate?		✓			✓
23. All standards injected within 12 hours of the mass resolution check?		✓			✓
24. High point checked for saturation and low point at or below RL?		✓			✓
25. ICAL start/end dates correct on summary?		✓			✓
26. Final TALS review: Grapics uploaded, all points in the most recent active calibration event#, approved calibrations in TALS, ICV uploaded and included in all limit group batches?		✓			✓

Analyst: <u>BKK</u>		Date: <u>6/1/24</u>
Comments:		
2nd Level Reviewer: <u>Ch</u>		Date: <u>6-4-24</u>
Comments:		

HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Start Date: 06/27/2024 22:00

Analysis Batch Number: 88205 End Date: 06/28/2024 05:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDMCCV 140-88205/1		06/27/2024 22:00	1	d2240627c2a.d	SPB-Octyl 0.25 (mm)
LCS 140-87624/19-B		06/27/2024 23:11	1	lcs140-8762419-b.d	SPB-Octyl 0.25 (mm)
LCSD 140-87624/20-B		06/28/2024 00:12	1	lcsd140-8762420-b.d	SPB-Octyl 0.25 (mm)
ZZZZZ		06/28/2024 01:57	1		SPB-Octyl 0.25 (mm)
MB 140-87624/21-B		06/28/2024 02:59	1	mb140-8762421-b.d	SPB-Octyl 0.25 (mm)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	06/28/2024 04:00	1	140-36940-a-1-c.d	SPB-Octyl 0.25 (mm)
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	06/28/2024 05:01	1	140-36940-a-2-c.d	SPB-Octyl 0.25 (mm)

**Eurofins Knoxville HRMS PCB Continuing Calibration Data Review Checklist**  
**Method 1668 or SOP Number: KNOX-ID-0013 Revision 21**

Start Mass Res:	21:46	WL #:	33294	CS3 Filename:	D2240627c2a	Inst/Date:	D2D 06/27/2024
End Mass Res:	9:25	AD II Batches:	88205			ICAL ADII Batch/ Event	87130 / 5117

Review Items	N/A	Yes	No	If No, why is data reportable?	2 <sup>nd</sup> Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift and is data verified as within the 12 hour clock?		Y			Y
2. Were all graphics uploaded to AD II?		Y			Y
3. Was the mass resolution scanned and attached to the corresponding WDMCCV?		Y			Y
4. Was the instrument resolution $\geq 8,000$ throughout ( $\geq 10,000$ for m/z 342.9792) and $\geq 10,000$ in the center of each m/z range for the PFK masses as listed in the SOP or $\geq 10,000$ in the center of each m/z range for the FC43 masses as listed in the SOP.		Y			Y
5. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		Y			Y
6. Were the date and time of analysis verified as correct?		Y			Y
7. Were the MID switch points set to encompass the retention time windows of each congener group?		Y			Y
8. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187?		Y			Y
9. Did the PCB co-elution 156/157 co-max within 2 sec at peak max on the SPB-octyl?		Y			Y
10. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		Y			Y
11. Was the %D for all Toxic analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Was the %D for all LOC analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		Y			Y
12. Was the %D for all non-toxic/non-LOC analytes within $\pm 30\%$ (for all versions of 1668)?		Y			Y
13. Were the response factors calculated for each labeled standard and unlabeled target analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		Y			Y
14. Were the absolute retention times of all labeled IDAs within $\pm 15$ seconds of the retention times obtained during initial calibration?		Y			Y
15. Are %D within $\pm 50\%$ for all labeled IDAs (for 1668A/B) or $-50/+45\%$ (for 1668C) in the calibration?		Y			Y
16. Are the %D within $\pm 50\%$ for all labeled field surrogates (for all versions of 1668) in the calibration?		Y			Y
17. Are the %D within $-40/+30\%$ (for 1668A/B) or $\pm 25\%$ (for 1668C) for all labeled surrogates in the calibration? <b>Note: for 1668C, PCB28L's lower limit can extend to -35%D.</b>		Y			Y
18. Are all S/N ratios $\geq 10$ for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		Y			Y
19. Are RRTs of all unlabeled toxic/LOC analytes within their respective RRT limits?		Y			Y
20. If manual integrations were performed, are they clearly identified in the AD II batch with the analyst, date and reason?		Y			Y
21. If criteria were not met, was a NCM generated?	NA				NA
22. Do the AD II batches contain a completed checklist for this work list?		Y			Y

<b>Analyst: MJP/BKK</b>	<b>Date: 6/28/2024</b>
<b>Comments:</b>	
<b>2nd Level Reviewer : MAC</b>	<b>Date: 06/29/2024</b>
<b>Comments:</b>	

**Eurofins Knoxville HRMS PCB Batch Data Review Checklist**  
**Method 1668 - KNOX-ID-0013-R21**

WL #: 33294  
ADII Batch #(s): 88205

Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Was the correct ICAL used for quantitation? (Check the ICAL event number in every sample and CCV.)		Y			Y
2. Have the appropriate checklists been completed for the Work List?		Y			Y
3. Were all special project requirements met (checked in backlog report and in AD II)?		Y			Y
4. DoD requirements met?	NA			<input type="checkbox"/> NCM#140-48351: Add to Case Narrative if Manual Integrations Performed <input type="checkbox"/> Narrate reasons for multiple analyses of samples	NA
5. Were the prep factors and dilution factors verified in AD II?		Y		<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	Y
6. Sample analyses done within preparation and analytical holding time (Check for H-flag in sample result in AD II)?		Y		<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____)	Y
7. Are IDAs, surrogates and field surrogates (if applicable) within QC limits?		Y		<input type="checkbox"/> IDA-Low-S/N 10:1 (NCM# _____) <input type="checkbox"/> IDA-High-Isotope Dilution (NCM# _____)	Y
8. Are IDAs, surrogates and field surrogate (if applicable) ion abundance ratios within limits?		Y		<input type="checkbox"/> Abundance ratio outside limit for IDA (NCM# _____)	Y
9. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in section 12.1 of the SOP calculated and reported as EMPCs?		Y			Y
10. Are positive results within calibration range?		Y		<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	Y
11. Are all non-detects that are G-qualified narrated?	NA			<input type="checkbox"/> (NCM# _____)	NA
12. Are all manual integrations documented with analyst ID, reason and date in AD II?		Y			Y
13. Are all graphics uploaded to AD II?		Y			Y
14. Final report acceptable (1. Job Data Review was checked and all CCV's, QC, and samples are turned to 2 <sup>nd</sup> level, 2. The narrative was checked in Supervisor Desktop for all deviations and grammar errors, and 3. All QC links were verified and at least one sample from every job is linked to the ICAL)?		Y			Y
15. LCS done per prep batch and all LCS/LCSD recoveries and RPDs within QC limits?		Y		<input type="checkbox"/> LCS/LCSD-%R High (NCM# _____) <input type="checkbox"/> LCS/LCSD-Insuff. Sample (NCM# _____)	Y
16. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		Y			Y
17. Are all analytes present in the method blank $\leq$ EML or within the specific program requirements?		Y		<input type="checkbox"/> Method Blank-Report, 10X (NCM# _____) <input type="checkbox"/> Method Blank-Report ND (NCM# _____) <input type="checkbox"/> Method Blank-Insuff. Sample NCM# _____	Y

<b>1<sup>st</sup> Level Reviewed by: BKK</b>	<b>Date: 6/28/2024</b>
<b>Comments:</b>	
<b>2nd Level Reviewed by: MAC</b>	<b>Date: 06/29/2024</b>
<b>Comments:</b>	

# HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Start Date: 06/28/2024 09:53

Analysis Batch Number: 88219 End Date: 06/28/2024 19:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDMCCV 140-88219/1		06/28/2024 09:53	1	d2240628c1b.d	SPB-Octyl 0.25 (mm)
ZZZZZ		06/28/2024 11:46	1		SPB-Octyl 0.25 (mm)
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	06/28/2024 12:47	1	140-36940-a-14-c.d	SPB-Octyl 0.25 (mm)
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	06/28/2024 13:48	5	140-36940-a-3-c 5x.d	SPB-Octyl 0.25 (mm)
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	06/28/2024 15:51	5	140-36940-a-5-c 5x.d	SPB-Octyl 0.25 (mm)
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	06/28/2024 16:52	5	140-36940-a-6-c 5x.d	SPB-Octyl 0.25 (mm)
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	06/28/2024 17:53	5	140-36940-a-7-c 5x.d	SPB-Octyl 0.25 (mm)
ZZZZZ		06/28/2024 19:56	1		SPB-Octyl 0.25 (mm)

**Eurofins Knoxville HRMS PCB Continuing Calibration Data Review Checklist**  
**Method 1668 or SOP Number: KNOX-ID-0013 Revision 21**

Start Mass Res:	9:25	WL #:	33304	CS3 Filename:	D220628c1b	Inst/ Date:	D2D 6/28/2024
End Mass Res:	20:57	AD II Batches:	88219			ICAL ADII Batch/ Event	87130 / 5117

Review Items	N/A	Yes	No	If No, why is data reportable?	2 <sup>nd</sup> Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift and is data verified as within the 12 hour clock?		Y			Y
2. Were all graphics uploaded to AD II?		Y			Y
3. Was the mass resolution scanned and attached to the corresponding WDMCCV?		Y			Y
4. Was the instrument resolution $\geq 8,000$ throughout ( $\geq 10,000$ for $m/z$ 342.9792) and $\geq 10,000$ in the center of each $m/z$ range for the PFK masses as listed in the SOP or $\geq 10,000$ in the center of each $m/z$ range for the FC43 masses as listed in the SOP.		Y			Y
5. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		Y			Y
6. Were the date and time of analysis verified as correct?		Y			Y
7. Were the MID switch points set to encompass the retention time windows of each congener group?		Y			Y
8. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187?		Y			Y
9. Did the PCB co-elution 156/157 co-max within 2 sec at peak max on the SPB-octyl?		Y			Y
10. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		Y			Y
11. Was the %D for all Toxic analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Was the %D for all LOC analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		Y			Y
12. Was the %D for all non-toxic/non-LOC analytes within $\pm 30\%$ (for all versions of 1668)?		Y			Y
13. Were the response factors calculated for each labeled standard and unlabeled target analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		Y			Y
14. Were the absolute retention times of all labeled IDAs within $\pm 15$ seconds of the retention times obtained during initial calibration?		Y			Y
15. Are %D within $\pm 50\%$ for all labeled IDAs (for 1668A/B) or $-50/+45\%$ (for 1668C) in the calibration?		Y			Y
16. Are the %D within $\pm 50\%$ for all labeled field surrogates (for all versions of 1668) in the calibration?		Y			Y
17. Are the %D within $-40/+30\%$ (for 1668A/B) or $\pm 25\%$ (for 1668C) for all labeled surrogates in the calibration? <b>Note: for 1668C, PCB28L's lower limit can extend to -35%D.</b>		Y			Y
18. Are all S/N ratios $\geq 10$ for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		Y			Y
19. Are RRTs of all unlabeled toxic/LOC analytes within their respective RRT limits?		Y			Y
20. If manual integrations were performed, are they clearly identified in the AD II batch with the analyst, date and reason?		Y			Y
21. If criteria were not met, was a NCM generated?	NA				NA
22. Do the AD II batches contain a completed checklist for this work list?		Y			Y

Analyst: BKK	Date: 6/28/2024
Comments:	
2nd Level Reviewer : MAC	Date:06/29/2024
Comments:	

**Eurofins Knoxville HRMS PCB Batch Data Review Checklist**  
**Method 1668 - KNOX-ID-0013-R21**

WL #: 33304  
ADII Batch #(s): 88219

Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Was the correct ICAL used for quantitation? (Check the ICAL event number in every sample and CCV.)		Y			Y
2. Have the appropriate checklists been completed for the Work List?		Y			Y
3. Were all special project requirements met (checked in backlog report and in AD II)?		Y			Y
4. DoD requirements met?	NA			<input type="checkbox"/> NCM#140-48351: Add to Case Narrative if Manual Integrations Performed <input type="checkbox"/> Narrate reasons for multiple analyses of samples	NA
5. Were the prep factors and dilution factors verified in AD II?		Y		<input type="checkbox"/> Dilution-Respike IDA (NCM# _____)	Y
6. Sample analyses done within preparation and analytical holding time (Check for H-flag in sample result in AD II)?		Y		<input type="checkbox"/> Holding Time-Initial Analysis (NCM# _____) <input type="checkbox"/> Holding Time-Reanalysis (NCM# _____)	Y
7. Are IDAs, surrogates and field surrogates (if applicable) within QC limits?			N	<input type="checkbox"/> IDA-Low-S/N 10:1 (NCM# 56881) <input type="checkbox"/> IDA-High-Isotope Dilution (NCM# _____)	N
8. Are IDAs, surrogates and field surrogate (if applicable) ion abundance ratios within limits?			N	<input type="checkbox"/> Abundance ratio outside limit for IDA (NCM# 56885)	N
9. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in section 12.1 of the SOP calculated and reported as EMPCs?		Y			Y
10. Are positive results within calibration range?		Y		<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM# _____)	Y
11. Are all non-detects that are G-qualified narrated?	NA			<input type="checkbox"/> (NCM# _____)	NA
12. Are all manual integrations documented with analyst ID, reason and date in AD II?		Y			Y
13. Are all graphics uploaded to AD II?		Y			Y
14. Final report acceptable (1. Job Data Review was checked and all CCV's, QC, and samples are turned to 2 <sup>nd</sup> level, 2. The narrative was checked in Supervisor Desktop for all deviations and grammar errors, and 3. All QC links were verified and at least one sample from every job is linked to the ICAL)?		Y			Y
15. LCS done per prep batch and all LCS/LCSD recoveries and RPDs within QC limits?		Y		<input type="checkbox"/> LCS/LCSD-%R High (NCM# _____) <input type="checkbox"/> LCS/LCSD-Insuff. Sample (NCM# _____)	Y
16. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		Y			Y
17. Are all analytes present in the method blank $\leq$ EML or within the specific program requirements?		Y		<input type="checkbox"/> Method Blank-Report, 10X (NCM# _____) <input type="checkbox"/> Method Blank-Report ND (NCM# _____) <input type="checkbox"/> Method Blank-Insuff. Sample NCM# _____	Y

<b>1<sup>st</sup> Level Reviewed by: BKK</b>	<b>Date: 6/29/2024</b>
<b>Comments:</b>	
<b>2nd Level Reviewed by: MAC</b>	<b>Date: 06/29/2024</b>
<b>Comments:</b>	



HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Start Date: 06/28/2024 23:29

Analysis Batch Number: 88242 End Date: 06/29/2024 09:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDMCCV 140-88242/1		06/28/2024 23:29	1	d2240628c2a.d	SPB-Octyl 0.25 (mm)
ZZZZZ		06/29/2024 01:16	1		SPB-Octyl 0.25 (mm)
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	06/29/2024 03:19	1	140-36940-a-8-c .d	SPB-Octyl 0.25 (mm)
ZZZZZ		06/29/2024 04:20	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/29/2024 05:22	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/29/2024 06:23	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/29/2024 07:24	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/29/2024 08:25	1		SPB-Octyl 0.25 (mm)
ZZZZZ		06/29/2024 09:26	1		SPB-Octyl 0.25 (mm)

**Eurofins Knoxville HRMS PCB Continuing Calibration Data Review Checklist**  
**Method 1668 or SOP Number: KNOX-ID-0013 Revision 21**

Start Mass Res:	23:13	WL #:	33313	CS3 Filename:	d2240628c2a	Inst/ Date:	D2D 6/28/2024
End Mass Res:	10:48	AD II Batches:	88242			ICAL ADII Batch/ Event	87130 / 5117

Review Items	N/A	Yes	No	If No, why is data reportable?	2 <sup>nd</sup> Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift and is data verified as within the 12 hour clock?		Y			Y
2. Were all graphics uploaded to AD II?		Y			Y
3. Was the mass resolution scanned and attached to the corresponding WDMCCV?		Y			Y
4. Was the instrument resolution $\geq 8,000$ throughout ( $\geq 10,000$ for m/z 342.9792) and $\geq 10,000$ in the center of each m/z range for the PFK masses as listed in the SOP or $\geq 10,000$ in the center of each m/z range for the FC43 masses as listed in the SOP.		Y			Y
5. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		Y			Y
6. Were the date and time of analysis verified as correct?		Y			Y
7. Were the MID switch points set to encompass the retention time windows of each congener group?		Y			Y
8. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187?		Y			Y
9. Did the PCB co-elution 156/157 co-max within 2 sec at peak max on the SPB-octyl?		Y			Y
10. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		Y			Y
11. Was the %D for all Toxic analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Was the %D for all LOC analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		Y			Y
12. Was the %D for all non-toxic/non-LOC analytes within $\pm 30\%$ (for all versions of 1668)?		Y			Y
13. Were the response factors calculated for each labeled standard and unlabeled target analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		Y			Y
14. Were the absolute retention times of all labeled IDAs within $\pm 15$ seconds of the retention times obtained during initial calibration?		Y			Y
15. Are %D within $\pm 50\%$ for all labeled IDAs (for 1668A/B) or -50/+45% (for 1668C) in the calibration?		Y			Y
16. Are the %D within $\pm 50\%$ for all labeled field surrogates (for all versions of 1668) in the calibration?		Y			Y
17. Are the %D within -40/+30% (for 1668A/B) or $\pm 25\%$ (for 1668C) for all labeled surrogates in the calibration? <b>Note: for 1668C, PCB28L's lower limit can extend to -35%D.</b>		Y			Y
18. Are all S/N ratios $\geq 10$ for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		Y			Y
19. Are RRTs of all unlabeled toxic/LOC analytes within their respective RRT limits?		Y			Y
20. If manual integrations were performed, are they clearly identified in the AD II batch with the analyst, date and reason?		Y			Y
21. If criteria were not met, was a NCM generated?	NA				NA
22. Do the AD II batches contain a completed checklist for this work list?		Y			Y

<b>Analyst: LKM</b>	<b>Date: 6-29-24</b>
<b>Comments:</b>	
<b>2nd Level Reviewer : MAC</b>	<b>Date: 06/30/2024</b>
<b>Comments:</b>	

**Eurofins Knoxville HRMS PCB Batch Data Review Checklist**  
**Method 1668 - KNOX-ID-0013-R21**

WL #: 33313  
ADII Batch #(s): 88242

Review Items	N/A	Yes	No	Why is data reportable?	2nd <input checked="" type="checkbox"/>
1. Was the correct ICAL used for quantitation? (Check the ICAL event number in every sample and CCV.)		Y			Y
2. Have the appropriate checklists been completed for the Work List?		Y			Y
3. Were all special project requirements met (checked in backlog report and in AD II)?		Y			Y
4. DoD requirements met?	NA			<input type="checkbox"/> NCM#140-48351: Add to Case Narrative if Manual Integrations Performed <input type="checkbox"/> Narrate reasons for multiple analyses of samples	NA
5. Were the prep factors and dilution factors verified in AD II?		Y		<input type="checkbox"/> Dilution-Respike IDA (NCM#_____)	Y
6. Sample analyses done within preparation and analytical holding time (Check for H-flag in sample result in AD II)?		Y		<input type="checkbox"/> Holding Time-Initial Analysis (NCM#_____) <input type="checkbox"/> Holding Time-Reanalysis (NCM#_____)	Y
7. Are IDAs, surrogates and field surrogates (if applicable) within QC limits?		Y		<input type="checkbox"/> IDA-Low-S/N 10:1 (NCM#_____) <input type="checkbox"/> IDA-High-Isotope Dilution (NCM#_____)	Y
8. Are IDAs, surrogates and field surrogate (if applicable) ion abundance ratios within limits?		Y		<input type="checkbox"/> Abundance ratio outside limit for IDA (NCM#_____)	Y
9. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in section 12.1 of the SOP calculated and reported as EMPCs?		Y			Y
10. Are positive results within calibration range?		Y		<input type="checkbox"/> ICAL-Range Exceed;No Sat. (NCM#_____)	Y
11. Are all non-detects that are G-qualified narrated?	NA			<input type="checkbox"/> (NCM#_____)	NA
12. Are all manual integrations documented with analyst ID, reason and date in AD II?		Y			Y
13. Are all graphics uploaded to AD II?		Y			Y
14. Final report acceptable (1. Job Data Review was checked and all CCV's, QC, and samples are turned to 2 <sup>nd</sup> level, 2. The narrative was checked in Supervisor Desktop for all deviations and grammar errors, and 3. All QC links were verified and at least one sample from every job is linked to the ICAL)?		Y			Y
15. LCS done per prep batch and all LCS/LCSD recoveries and RPDs within QC limits?		Y		<input type="checkbox"/> LCS/LCSD-%R High (NCM#_____) <input type="checkbox"/> LCS/LCSD-Insuff. Sample (NCM#_____)	Y
16. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		Y			Y
17. Are all analytes present in the method blank $\leq$ EML or within the specific program requirements?		Y		<input type="checkbox"/> Method Blank-Report, 10X (NCM#_____) <input type="checkbox"/> Method Blank-Report ND (NCM#_____) <input type="checkbox"/> Method Blank-Insuff. Sample (NCM#_____)	Y

<b>1<sup>st</sup> Level Reviewed by: BKK</b>	<b>Date: 6/29/2024</b>
<b>Comments:</b>	
<b>2nd Level Reviewed by: MAC</b>	<b>Date: 06/30/2024</b>
<b>Comments:</b>	

# HI-RES PCBS ANALYSIS RUN LOG

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Instrument ID: D2D Start Date: 07/02/2024 17:01

Analysis Batch Number: 88362 End Date: 07/02/2024 19:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
WDMCCV 140-88362/1		07/02/2024 17:01	1	d2240702c1a.d	SPB-Octyl 0.25 (mm)
ZZZZZ		07/02/2024 18:56	1		SPB-Octyl 0.25 (mm)
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	07/02/2024 19:57	1	140-36940-a-4-e .d	SPB-Octyl 0.25 (mm)

**Eurofins Knoxville HRMS PCB Continuing Calibration Data Review Checklist**  
**Method 1668 or SOP Number: KNOX-ID-0013 Revision 21**

Start Mass Res:	16:42	WL #:	33352	CS3 Filename:	d2240702c1a	Inst/ Date:	D2D 7/2/2024
End Mass Res:	23:30	AD II Batches:	88362			ICAL ADII Batch/ Event	87130 / 5117

Review Items	N/A	Yes	No	If No, why is data reportable?	2 <sup>nd</sup> Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift and is data verified as within the 12 hour clock?		Y			Y
2. Were all graphics uploaded to AD II?		Y			Y
3. Was the mass resolution scanned and attached to the corresponding WDMCCV?		Y			Y
4. Was the instrument resolution $\geq 8,000$ throughout ( $\geq 10,000$ for m/z 342.9792) and $\geq 10,000$ in the center of each m/z range for the PFK masses as listed in the SOP or $\geq 10,000$ in the center of each m/z range for the FC43 masses as listed in the SOP.		Y			Y
5. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		Y			Y
6. Were the date and time of analysis verified as correct?		Y			Y
7. Were the MID switch points set to encompass the retention time windows of each congener group?		Y			Y
8. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187?		Y			Y
9. Did the PCB co-elution 156/157 co-max within 2 sec at peak max on the SPB-octyl?		Y			Y
10. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		Y			Y
11. Was the %D for all Toxic analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Was the %D for all LOC analytes within $\pm 30\%$ for 1668A/B and $\pm 25\%$ for 1668C? (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		Y			Y
12. Was the %D for all non-toxic/non-LOC analytes within $\pm 30\%$ (for all versions of 1668)?		Y			Y
13. Were the response factors calculated for each labeled standard and unlabeled target analyte using the SOP specified reference compound (Table 2), quantitation ions (Table 8), and formula (10.3.4.2)?		Y			Y
14. Were the absolute retention times of all labeled IDAs within $\pm 15$ seconds of the retention times obtained during initial calibration?		Y			Y
15. Are %D within $\pm 50\%$ for all labeled IDAs (for 1668A/B) or -50/+45% (for 1668C) in the calibration?		Y			Y
16. Are the %D within $\pm 50\%$ for all labeled field surrogates (for all versions of 1668) in the calibration?		Y			Y
17. Are the %D within -40/+30% (for 1668A/B) or $\pm 25\%$ (for 1668C) for all labeled surrogates in the calibration? <b>Note: for 1668C, PCB28L's lower limit can extend to -35%D.</b>		Y			Y
18. Are all S/N ratios $\geq 10$ for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		Y			Y
19. Are RRTs of all unlabeled toxic/LOC analytes within their respective RRT limits?		Y			Y
20. If manual integrations were performed, are they clearly identified in the AD II batch with the analyst, date and reason?		Y			Y
21. If criteria were not met, was a NCM generated?	Y				NA
22. Do the AD II batches contain a completed checklist for this work list?		Y			Y

<b>Analyst: BKK</b>	<b>Date: 7-2-24</b>
<b>Comments:</b>	
<b>2nd Level Reviewer : LKM</b>	<b>Date: 7-2-24</b>
<b>Comments:</b>	

**Eurofins Knoxville HRMS PCB Batch Data Review Checklist**  
**Method 1668 - KNOX-ID-0013-R21**

WL #: 33352  
 ADII Batch #(s): 88362

Review Items	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Was the correct ICAL used for quantitation? (Check the ICAL event number in every sample and CCV.)		Y			Y
2. Have the appropriate checklists been completed for the Work List?		Y			Y
3. Were all special project requirements met (checked in backlog report and in AD II)?		Y			Y
4. DoD requirements met?	NA			<input type="checkbox"/> NCM#140-48351: Add to Case Narrative if Manual Integrations Performed <input type="checkbox"/> Narrate reasons for multiple analyses of samples	NA
5. Were the prep factors and dilution factors verified in AD II?		Y		X <b>Dilution-Respike IDA</b> (NCM#_56995_)	Y
6. Sample analyses done within preparation and analytical holding time (Check for H-flag in sample result in AD II)?		Y		<input type="checkbox"/> <b>Holding Time-Initial Analysis</b> (NCM#_____) <input type="checkbox"/> <b>Holding Time-Reanalysis</b> (NCM#_____)	Y
7. Are IDAs, surrogates and field surrogates (if applicable) within QC limits?		Y		<input type="checkbox"/> <b>IDA-Low-S/N 10:1</b> (NCM#_____) <input type="checkbox"/> <b>IDA-High-Isotope Dilution</b> (NCM#_____)	Y
8. Are IDAs, surrogates and field surrogate (if applicable) ion abundance ratios within limits?		Y		<input type="checkbox"/> Abundance ratio outside limit for IDA (NCM#_____)	Y
9. Were peaks $\geq 2.5$ S/N, which did not meet one or more of the criteria listed in section 12.1 of the SOP calculated and reported as EMPCs?		Y			Y
10. Are positive results within calibration range?		Y		<input type="checkbox"/> <b>ICAL-Range Exceed;No Sat.</b> (NCM#_____)	Y
11. Are all non-detects that are G-qualified narrated?	MA			<input type="checkbox"/> (NCM#_____)	NA
12. Are all manual integrations documented with analyst ID, reason and date in AD II?		Y			Y
13. Are all graphics uploaded to AD II?		Y			Y
14. Final report acceptable (1. Job Data Review was checked and all CCV's, QC, and samples are turned to 2 <sup>nd</sup> level, 2. The narrative was checked in Supervisor Desktop for all deviations and grammar errors, and 3. All QC links were verified and at least one sample from every job is linked to the ICAL)?		Y			Y
15. LCS done per prep batch and all LCS/LCSD recoveries and RPDs within QC limits?		Y		<input type="checkbox"/> <b>LCS/LCSD-%R High</b> (NCM#_____) <input type="checkbox"/> <b>LCS/LCSD-Insuff. Sample</b> (NCM#_____)	Y
16. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		Y			Y
17. Are all analytes present in the method blank $\leq$ EML or within the specific program requirements?		Y		<input type="checkbox"/> <b>Method Blank-Report, 10X</b> (NCM#_____) <input type="checkbox"/> <b>Method Blank-Report ND</b> (NCM#_____) <input type="checkbox"/> <b>Method Blank-Insuff. Sample</b> (NCM#_____)	Y

<b>1<sup>st</sup> Level Reviewed by: LKM</b>	<b>Date: 7-2-24</b>
<b>Comments:</b>	
<b>2nd Level Reviewed by: MSP</b>	<b>Date: 7-3-24</b>
<b>Comments:</b>	

# HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87130 Batch Start Date: 05/31/24 14:36 Batch Analyst: Knight, Benjamin K

Batch Method: 23 Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61CV1668CS3 00019	61L0.51668P 00011	61L11668P 00006	61L21668P 00006	61L41668P 00006	61L51668P 00006
IC 140-87130/1		23				20 uL				
IC 140-87130/2		23					20 uL			
IC 140-87130/3		23						20 uL		
IC 140-87130/4		23			20 uL					
IC 140-87130/5		23							20 uL	
IC 140-87130/6		23								20 uL
ICV 140-87130/7		23								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	61MX209ICVS 00010					
IC 140-87130/1		23								
IC 140-87130/2		23								
IC 140-87130/3		23								
IC 140-87130/4		23								
IC 140-87130/5		23								
IC 140-87130/6		23								
ICV 140-87130/7		23			20 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87624 Batch Start Date: 06/13/24 10:44 Batch Analyst: McNeil, David R

Batch Method: Combined Prep Batch End Date: 06/20/24 14:02

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
140-36940-A-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Combined Prep, Split, 23	Air	T	1732.9 g	628.5 g	1104.4 mL	1104.4 mL	1104.4 mL	1 Sample
140-36940-A-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Combined Prep, Split, 23	Air	T	1367.9 g	450.3 g	917.6 mL	917.6 mL	917.6 mL	1 Sample
140-36940-A-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Combined Prep, Split, 23	Air	T	1492.8 g	448.8 g	1044 mL	1044 mL	1044 mL	1 Sample
140-36940-A-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Combined Prep, Split, 23	Air	T	1376.2 g	448.9 g	927.3 mL	927.3 mL	927.3 mL	1 Sample
140-36940-A-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Combined Prep, Split, 23	Air	T	1409.8 g	450.4 g	959.4 mL	959.4 mL	959.4 mL	1 Sample
140-36940-A-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Combined Prep, Split, 23	Air	T	1450.6 g	450.4 g	1000.2 mL	1000.2 mL	1000.2 mL	1 Sample
140-36940-A-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	Combined Prep, Split, 23	Air	T	603.5 g	449.1 g	154.4 mL	154.4 mL	154.4 mL	1 Sample
140-36940-A-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	Combined Prep, Split, 23	Air	T						1 Sample
LCS 140-87624/19		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
LCSD 140-87624/20		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample
MB 140-87624/21		Combined Prep, Split, 23					1000 mL	1000 mL	1000 mL	1 Sample

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	61FS1668P 00007	61ID1668WRK 00056	61SP1668WRK 00010		
140-36940-A-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87624 Batch Start Date: 06/13/24 10:44 Batch Analyst: McNeil, David R

Batch Method: Combined Prep Batch End Date: 06/20/24 14:02

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	61FS1668P 00007	61ID1668WRK 00056	61SP1668WRK 00010		
140-36940-A-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36940-A-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36940-A-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36940-A-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36940-A-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36940-A-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	Combined Prep, Split, 23	Air	T	30 mL	200 uL	3 mL			
140-36940-A-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	Combined Prep, Split, 23	Air	T	30 mL		3 mL			
LCS 140-87624/19		Combined Prep, Split, 23			30 mL		3 mL	3 mL		
LCSD 140-87624/20		Combined Prep, Split, 23			30 mL		3 mL	3 mL		
MB 140-87624/21		Combined Prep, Split, 23			30 mL		3 mL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87624 Batch Start Date: 06/13/24 10:44 Batch Analyst: McNeil, David R

Batch Method: Combined Prep Batch End Date: 06/20/24 14:02

Batch Notes	
MeCL2 ID	241698
Na2SO4 ID	692772
Sulfuric Acid ID	682487
Hexane ID	241348
Analyst ID - TA Reagent Drop	DM
Analyst ID - IDA Reagent Drop	DM
Analyst ID - TA Reagent Drop Witness	SS
Analyst ID - IDA Reagent Drop Witness	SS
Analyst ID - Extraction	SS
Extraction 1 Start Time	15:00
First Extraction Start Date	06/14/2024
Extraction 1 End Time	08:45
First Extraction End Date	06/15/2024 08:45
Second Extraction End Date	06/15/2024
Analyst ID - Concentration	ss
Concentration Date	06/15/2024

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87624 Batch Start Date: 06/13/24 10:44 Batch Analyst: McNeil, David R

Batch Method: Combined Prep Batch End Date: 06/20/24 14:02

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	BotlFullWt	BotlEmptyWt	BotlVol	VolumeCollect	VolCondUsed	InitialAmount
140-36940-A-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Combined Prep, Split, Dilution, 23	Air	T	1379.5 g	448.1 g	931.4 mL	931.4 mL	931.4 mL	1 Sample

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	61FS1668P 00007	61ID1668WRK 00056			
140-36940-A-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Combined Prep, Split, Dilution, 23	Air	T	30 mL	200 uL	3 mL			

Batch Notes	
MeCL2 ID	241698
Na2SO4 ID	692772
Sulfuric Acid ID	682487
Hexane ID	241348
Analyst ID - TA Reagent Drop	DM
Analyst ID - IDA Reagent Drop	DM
Analyst ID - TA Reagent Drop Witness	SS
Analyst ID - IDA Reagent Drop Witness	SS
Analyst ID - Extraction	SS
Extraction 1 Start Time	15:00
First Extraction Start Date	06/14/2024
Extraction 1 End Time	08:45
First Extraction End Date	06/15/2024 08:45
Second Extraction End Date	06/15/2024
Analyst ID - Concentration	ss
Concentration Date	06/15/2024

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87905 Batch Start Date: 06/20/24 14:09 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 06/27/24 11:18

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	61CS1668WRK 00035	61RS1668WRK 00038		
140-36940-A-1-B	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36940-A-2-B	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36940-A-3-B	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36940-A-5-B	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36940-A-6-B	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36940-A-7-B	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36940-A-8-B	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINED	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
140-36940-A-14-B	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER	Split, 23	Air	T	10 mL	100 uL	1 mL	100 uL		
LCS 140-87624/19-A		Split, 23			10 mL	100 uL	1 mL	100 uL		
LCSD 140-87624/20-A		Split, 23			10 mL	100 uL	1 mL	100 uL		
MB 140-87624/21-A		Split, 23			10 mL	100 uL	1 mL	100 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87905 Batch Start Date: 06/20/24 14:09 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 06/27/24 11:18

Batch Notes	
Analyst ID - SU Reagent Drop	edd
Analyst ID - IS Reagent Drop	caa
Analyst ID - SU Reagent Drop Witness	ss
Analyst ID - IS Reagent Drop Witness	caa
Hexane ID	702341
Na2SO4 ID	692772
MeCL2 ID	541698
GPC ID	GPC 4 & GPC 5
GPC Analyst	MJR
GPC Date	06/25/2024
Silica Gel C/U analyst	edd
Silica Gel C/U Date	06/21/2024
Acid Silica Gel ID	695658
Deactivated Silica ID	702322
Analyst ID - Concentration	ALA/SRG 6/26/24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 87905 Batch Start Date: 06/20/24 14:09 Batch Analyst: Reilly, Delaney E

Batch Method: Split Batch End Date: 06/27/24 11:18

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	61CS1668WRK 00035	61RS1668WRK 00038		
140-36940-A-4-B	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Split, Dilution, 23	Air	T	10 mL	100 uL	1 mL	100 uL		

Batch Notes	
Analyst ID - SU Reagent Drop	edd
Analyst ID - IS Reagent Drop	caa
Analyst ID - SU Reagent Drop Witness	ss
Analyst ID - IS Reagent Drop Witness	caa
Hexane ID	702341
Na2SO4 ID	692772
MeCL2 ID	541698
GPC ID	GPC 4 & GPC 5
GPC Analyst	MJR
GPC Date	06/25/2024
Silica Gel C/U analyst	edd
Silica Gel C/U Date	06/21/2024
Acid Silica Gel ID	695658
Deactivated Silica ID	702322
Analyst ID - Concentration	ALA/SRG 6/26/24

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

## Eurofins Knoxville Extraction Sheet

Batch Number: 87624

Split Batch Number: 87905

TALS Prep Chain: Combined\_HRMS\_P→Split\_SA\_1668

Delivered:

initials/date/time

Received: \_\_\_\_\_

initials/date/time

[illegible]

ALA/ CAN  
SAS 6127  
Printed: 6/13/2024 10:57 AM

DP-156R0 052024 EPA M23 PCB Congeners Combined Page 1 (TALS)

OP156R0 052024

## Eurofins Knoxville Prep Batch Review Checklist

Batch # 87624Split Batch # 87905

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Were the samples extracted within the required holding times?		✓		If No, NCM #: _____	✓
2. Are the final extracts free of water, precipitates, multiple phases, and for HRMS - color?			✓	140-36940-A-4 was slight color	✓
3. Were all project specific requirements met?		✓			✓
4. Were the correct start and completion dates entered into TALS?		✓			✓
5. Are the spike IDs and volumes correct in TALS for the method?		✓			✓
6. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including: <ul style="list-style-type: none"> <li>Extraction Benchsheet (Excel)</li> <li>Batch Worksheets (ANLY)</li> <li>Verify Protocol #'s (compare excel sheet to TALS)</li> <li>Was the Excel Extraction Benchsheet and Prep Batch Review Checklist scanned and attached to batch in TALS?</li> </ul>		✓			✓
7. Did extracts go through GPC cleanup? Has the following nonconformance been associated with all extracts?		✓		If Yes, <input type="checkbox"/> Clean-up Required - GPC (NCM# <u>140-56737</u> )	✓
8. Are all additional nonconformances documented appropriately?	✓			If Yes, NCM#: _____	✓
Analyst : <u>CAA</u> Date: <u>6/27/24</u>					
Comments:					
2nd Level Reviewer: <u>DN</u> Date: <u>6-27-24</u>					
Comments:					



# HI-RES PCBS BATCH WORKSHEET

Lab Name: Eurofins Knoxville Job No.: 140-36940-1

SDG No.: \_\_\_\_\_

Batch Number: 88321 Batch Start Date: 07/02/24 07:51 Batch Analyst: Armstrong, Catherine A

Batch Method: Dilution Batch End Date: 07/02/24 15:01

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialVolume1	FinalVolume1	InitialVolume2	FinalVolume2	DilutionFactor	FinalAmount
140-36940-A-4-C	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Dilution, 23	Air	T	20 uL	5 mL	500 uL	100 uL	50 No Unit	100 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	CalcMsg	61CS1668WRK 00037	61FS1668P 00007	61ID1668WRK 00053	61RS1668WRK 00038	
140-36940-A-4-C	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	Dilution, 23	Air	T	OK	1 mL	100 uL	1 mL	100 uL	

Batch Notes	
Batch Comment	IDA, CS, FS spiked by caa and witnessed by ss. Dilution performed by caa. IS spiked/witnessed caa.

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Shipping and Receiving Documents

Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.584.4315

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

[illegible]

Custody Seals Intact:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:	Cooler Temp. (°C):	Obs'd:	Corrd:	Therm ID No.:
Relinquished by: <i>[Signature]</i>				Company: <i>Chillence</i>	Date/Time: <i>5-29-10:00</i>	Received by: <i>[Signature]</i>	Company: <i>E-TA KNOX</i>	Date/Time: <i>5/29/24 1445</i>
Relinquished by: <i>[Signature]</i>				Company: <i>E-TA KNOX</i>	Date/Time: <i>5-30-24 19:00</i>	Received by: <i>[Signature]</i>	Company: <i>E-TA KNOX</i>	Date/Time: <i>5/30/24 19:00</i>
Relinquished by: <i>[Signature]</i>				Company: <i>[Blank]</i>	Date/Time: <i>[Blank]</i>	Received in Laboratory by: <i>[Blank]</i>	Company: <i>[Blank]</i>	Date/Time: <i>[Blank]</i>

Form No. CA-C-WI-002, Rev. 4.11, dated 1/24/2017

3.7, ~~3.4~~ 20.0









Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.584.4315

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact  
AST Office: HOU  
Address: 5/57 Genoa Red Bluff Road  
City/State/Zip: Pasadena, TX 77507  
Phone: 256-351-0121  
HOUreports@stacktest.com  
Project Name: BASF 24-2250  
Site: Freeport, TX  
PO #

Project Manager: Jason Myers  
Tel/Fax:

Analysis Turnaround Time  
☐ CALENDAR DAYS ☐ WORKING DAYS  
TAT if different from below  
☐ 2 weeks  
☐ 1 week  
☐ 2 days  
☐ 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Lab Contact:	Site Contact:	Date:	Carrier:	For Lab Use Only: Walk-in Client: Lab Sampling:	Job / SDG No.:	Sample Specific Notes:
EPN 4-1/IN-701 Outlet - Cont. #1 (Filter) - Run 6	5/17/24	16:30			1			EPN M23 - Filter	EPN M23 - Front Half/Back Half	Acetone/Toluene Rinse	EPN M23 - Back Half	Impinger + Acetone Rinse	Impinger + Toluene Rinse	PAH & PCB
EPN 4-1/IN-701 Outlet - Cont. #2 (B/H Rinse Acetone/Tol) - Run 6	5/17/24	0.0875			1									"
EPN 4-1/IN-701 Outlet - XAD Resin Trap (Trap) Run 6	5/17/24	0.0875			1									"
EPN 4-1/IN-701 Outlet Cont. #3A - (B/H Water) - Run 6	5/17/24	0.0875			1									"
EPN 4-1/IN-701 Outlet Cont. #3B (B/H Acetone/Tol) - Run 6	5/17/24	0.0875			1									"

Possible Hazard Identification:  
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
☐ Non-Hazard ☐ Reasonable ☐ Skin Irritant ☐ Poison B ☐ Poison A ☐ Unknown

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No

Relinquished by: *Donx Cold*

Relinquished by: *Donx Cold*

Relinquished by: *Donx Cold*

Company: EPTA KNOX

Company: EPTA KNOX

Company: EPTA KNOX

Date/Time: 5/29/24 14:45

Date/Time: 5/30/24 19:00

Date/Time: 5/30/24 19:00

Received by: *Donx Cold*

Received by: *Donx Cold*

Received by: *Donx Cold*

Company: EPTA KNOX

Company: EPTA KNOX

Company: EPTA KNOX

Therm ID No.:

Cooler Temp. (C):

Obs'd:

Conf'd:



TestAmerica Knoxville  
5615 Middlebrook Pike

Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.584.4315

# Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Project Manager: Jason, Myers

Tel/Fax:

Analysis Turnaround Time

☐ CALENDAR DAYS ☐ WORKING DAYS

TAT if different from Below

☐ 2 weeks

☐ 1 week

☐ 2 days

☐ 1 day

Sample Date

Sample Time

Sample Type

IC-Comp. GC-Grab

Matrix

# of Cont.

Sample Identification

EPN 4-1/IN-701 Outlet - Cont. #1 (Filter) - Run 7

EPN 4-1/IN-701 Outlet - Cont. #2 (5/H Rinse Acetone/Tol) - Run 7

EPN 4-1/IN-701 Outlet - XAD Resin Trap (Trap) Run 7

EPN 4-1/IN-701 Outlet Cont. #3A - (B/H Water) - Run 7

EPN 4-1/IN-701 Outlet Cont. #3B (B/H Acetone/Tol) - Run 7

Possible Hazard Identification:

Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the

Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Unknown

Special Instructions/QC Requirements & Comments:

Custody Seal No.:

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Knoxville, TN 37921-5947  
phone 865.291.3000 fax 865.584.4315

TestAmerica Laboratories, Inc.

COC No. \_\_\_\_\_ of \_\_\_\_\_ COCs

Date: \_\_\_\_\_

Carrier: \_\_\_\_\_

Site Contact: \_\_\_\_\_

Lab Contact: \_\_\_\_\_

Project Manager: Jason Myers  
Tel/Fax: \_\_\_\_\_

Regulatory Program: ☐ LW ☐ NPDES ☐ RCRA ☐ Other: \_\_\_\_\_

Alliance Source Testing AST Office: HOU  
Address: 5/57 Garza Red Bluff Road  
City/State/Zip: Pasadena, TX 77507  
Phone: 281-954-0121  
Email: HOUreports@stacktest.com  
Project Name: BASF 24-2250  
Site: Freeport, TX  
PO#

Analysis Turnaround Time  
☐ CALENDAR DAYS ☐ WORKING DAYS  
TAT if different from Below \_\_\_\_\_  
☐ 2 weeks  
☐ 1 week  
☐ 2 days  
☐ 1 day

Sample Identification

Filter - Field Blank

Filter - Field Blank

XAD Resin Trap Field Blank

Filter Reagent Blank

Acetone Reagent Blank

Toluene Reagent Blank

XAD Resin Trap Reagent Blank

DI Reagent Blank

BH DI Rinse - Field Blank

BH Water - Field Blank

Filter - Field Blank

Filter - Field Blank

XAD Resin Trap Field Blank

Filter Reagent Blank

Acetone Reagent Blank

Toluene Reagent Blank

XAD Resin Trap Reagent Blank

DI Reagent Blank

BH DI Rinse - Field Blank

BH Water - Field Blank

Filter - Field Blank

Filter - Field Blank

XAD Resin Trap Field Blank

Filter Reagent Blank

Acetone Reagent Blank

Toluene Reagent Blank

XAD Resin Trap Reagent Blank

DI Reagent Blank

BH DI Rinse - Field Blank

BH Water - Field Blank

Filter - Field Blank

Filter - Field Blank

XAD Resin Trap Field Blank

Filter Reagent Blank

Acetone Reagent Blank

Toluene Reagent Blank

XAD Resin Trap Reagent Blank

DI Reagent Blank

BH DI Rinse - Field Blank

BH Water - Field Blank

Filter - Field Blank

Filter - Field Blank

XAD Resin Trap Field Blank

Filter Reagent Blank

Acetone Reagent Blank

Toluene Reagent Blank

XAD Resin Trap Reagent Blank

DI Reagent Blank

BH DI Rinse - Field Blank

BH Water - Field Blank

Filter - Field Blank

Filter - Field Blank

XAD Resin Trap Field Blank

Filter Reagent Blank

Acetone Reagent Blank

Toluene Reagent Blank

XAD Resin Trap Reagent Blank

DI Reagent Blank

BH DI Rinse - Field Blank

BH Water - Field Blank

Filter - Field Blank

Filter - Field Blank

XAD Resin Trap Field Blank

Filter Reagent Blank

Acetone Reagent Blank

Toluene Reagent Blank

XAD Resin Trap Reagent Blank

DI Reagent Blank

BH DI Rinse - Field Blank

BH Water - Field Blank

Filter - Field Blank

Filter - Field Blank

XAD Resin Trap Field Blank

Filter Reagent Blank

Acetone Reagent Blank

Toluene Reagent Blank

XAD Resin Trap Reagent Blank

DI Reagent Blank

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EUROFINS KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST Log In Number:

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Are the shipping containers intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	HAND DELIVERED
2. Were ambient air containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Checked in lab	NO CUSTODY SEALS
3. The coolers/containers custody seal if present, is it intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Yes <input type="checkbox"/> NA	XAD TRAPS RECEIVED AT RT 3.7/CT 3.8C FILTERS, NUBES, CONDENSATES RECEIVED AMBIENT AT 20.0/CT 20.1C AND 320.24
4. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C) Thermometer ID : 5676 Correction factor: +0.1C	<input checked="" type="checkbox"/>			<input type="checkbox"/> Cooler Out of Temp, Client Contacted, Proceed/Cancel <input type="checkbox"/> Cooler Out of Temp, Same Day Receipt	7 PIN 4-11N-701 OUTLET - NUBS SHIMANE + B-H WATER LABELED AS RUN 6, MATCHED BY CUBBY TWIN TIME
5. Were all of the sample containers received intact?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Broken	10
6. Were samples received in appropriate containers?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Containers, Improper; Client Contacted; Proceed/Cancel	12, NO ANALYSIS LISTED FOR FILTER FRACTIONS
7. Do sample container labels match COC? (IDs, Dates, Times)	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/> COC & Samples Do Not Match <input type="checkbox"/> COC Incorrect/Incomplete <input type="checkbox"/> COC Not Received	13
8. Were all of the samples listed on the COC received?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Sample Received, Not on COC <input type="checkbox"/> Sample on COC, Not Received	
9. Is the date/time of sample collection noted?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC; No Date/Time; Client Contacted	
10. Was the sampler identified on the COC?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/> Sampler Not Listed on COC	Labeling Verified by: Date:
11. Is the client and project name/# identified?	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	pH test strip lot number:
12. Are tests/parameters listed for each sample?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/> COC No tests on COC	
13. Is the matrix of the samples noted?	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/> COC Incorrect/Incomplete	
14. Was COC relinquished? (Signed/Dated/Timed)	<input checked="" type="checkbox"/>			<input type="checkbox"/> COC Incorrect/Incomplete	Box 16A: pH Preservation Box 18A: Residual Chlorine
15. Were samples received within holding time?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Holding Time - Receipt	Preservative:
16. Were samples received with correct chemical preservative (excluding Encore)?	<input checked="" type="checkbox"/>			<input type="checkbox"/> pH Adjusted, pH Included (See box 16A)	Lot Number:
17. Were VOA samples received without headspace?	<input checked="" type="checkbox"/>			<input type="checkbox"/> Incorrect Preservative	Exp Date:
18. Did you check for residual chlorine, if necessary? (e.g. 1613B, 1668) Chlorine test strip lot number:	<input checked="" type="checkbox"/>			<input type="checkbox"/> Headspace (VOA only) <input type="checkbox"/> Residual Chlorine	Analyst:
19. For 1613B water samples is pH<9?	<input checked="" type="checkbox"/>				Date:
20. For rad samples was sample activity info. Provided?	<input checked="" type="checkbox"/>			<input type="checkbox"/> If no, notify lab to adjust <input type="checkbox"/> Project missing info	Time:

Project #: PM Instructions:

Sample Receiving Associate: Randy Danner Date: 5.31.24

## Appendix F: ANALYTICAL DATA ASSESSMENT FORMS

### ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-36941-1

### Sample Holding Time Check

[illegible]

**\*\*Note: QAPP  $\leq 180$  day holding time objective.**

## ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-36941-1

### Evaluation of Precision - Field Duplicates (per CPT)

[illegible]

\*\* Note: QAPP  $\leq 20\%$  RPD objective.

# ASTM Method D240 - Higher Heating Value

Laboratory:	Eurofins Knoxville
Report ID:	140-36941-1

## Evaluation of Precision - LCS/LCSD (per batch)

Batch No.:	88130			
Page No.:	26			
Parameter	LCS	LCSD	RPD	Lab RPD
HHV	20380	20540	✓ 1%	✓ 1%
Batch No.:	88175			
Page No.:	26			
Parameter	LCS	LCSD	RPD	Lab RPD
HHV	20270	20380	✓ 1%	✓ 1%
Batch No.:				
Page No.:				
Parameter	LCS	LCSD	RPD	Lab RPD
HHV				

\*\* Note: QAPP ≤2% RPD objective.

## Evaluation of Precision - Sample Duplicate (per batch)

Batch No.:	88130			
Page No.:	26			
Parameter	Original	Duplicate	RPD	Lab RPD
HHV	16900	16960	✓ 0.4%	✓ 0.2%
Batch No.:	88175			
Page No.:	26			
Parameter	Original	Duplicate	RPD	Lab RPD
HHV	628	ND	NC	NC
Batch No.:	88175			
Page No.:	26			
Parameter	Original	Duplicate	RPD	Lab RPD
HHV	11800	11800	✓ 0.0%	✓ 0.4%

\*\* Note: Done for internal laboratory purposes only. ≤10% RPD objective.

**ASTM Method D240 - Higher Heating Value**

<b>Laboratory:</b>	<b>Eurofins Knoxville</b>
<b>Report ID:</b>	<b>140-36941-1</b>

**Evaluation of Accuracy - LCS/LCSD (per batch)**

<b>Batch No.:</b>	88130							
<b>Page No.:</b>	26							
Parameter	LCS				LCSD			
	Spiked	Measured	Recovery	Lab Recovery	Spiked	Measured	Recovery	Lab Recovery
HHV	20600	20380	99%	99%	20600	20540	100%	100%
<b>Batch No.:</b>	88175							
<b>Page No.:</b>	26							
Parameter	LCS				LCSD			
	Spiked	Measured	Recovery	Lab Recovery	Spiked	Measured	Recovery	Lab Recovery
HHV	20600	20270	98%	99%	20600	20380	99%	99%
<b>Batch No.:</b>								
<b>Page No.:</b>								
Parameter	LCS				LCSD			
	Spiked	Measured	Recovery	Lab Recovery	Spiked	Measured	Recovery	Lab Recovery
HHV								

\*\*Note: QAPP 98-102% recovery objective.



**ASTM Method D240 - Higher Heating Value**

<b>Laboratory:</b>	<b>Eurofins Knoxville</b>
<b>Report ID:</b>	<b>140-36941-1</b>

**Review of Analytical Quality Control Checks**

<b>Quality Control Sample</b>	<b>Criteria</b>	<b>Met?*</b>	<b>Page No.</b>
Initial calibration	$\leq 1\%$ RSD	Yes	66,68
Calibration checks	$\pm 1\%$ difference from initial calibration	Yes	66,68

\* Answer as "Yes" or "No". If not met, complete table(s) below.

**Deviations on RSDs**

<b>Calibration standard</b>	<b>Relative Standard Deviation</b>	<b>ICV/CCV Batch</b>	<b>Samples Affected</b>

## USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36940-1

## Sample Holding Time Check

Lab Sample No.	Sample ID	Chain of Custody Page No.	Analytes	Sample Results Page No.	Collected (mm/dd/yyyy)	Extracted (mm/dd/yyyy)	Duration (days)	Analyzed (mm/dd/yyyy)	Duration (days)
140-36940-1	M23 - EPN 4-1/IN-701-RUN 1-COMBINED	3378	PCB	14	5/15/2024	6/13/2024	✓ 29	6/28/2024	✓ 15
			PAH	15	5/15/2024	6/13/2024	✓ 29	7/16/2024	✓ 33
140-36940-2	M23 - EPN 4-1/IN-701-RUN 2-COMBINED	3379	PCB	17	5/15/2024	6/13/2024	✓ 29	6/28/2024	✓ 15
			PAH	18	5/15/2024	6/13/2024	✓ 29	7/16/2024	✓ 33
140-36940-3	M23 - EPN 4-1/IN-701-RUN 3-COMBINED	3380	PCB	20	5/16/2024	6/13/2024	✓ 28	6/28/2024	✓ 15
			PAH	21	5/16/2024	6/13/2024	✓ 28	7/16/2024	✓ 33
140-36940-4	M23 - EPN 4-1/IN-701-RUN 4-COMBINED	3381	PCB	23	5/16/2024	6/13/2024	✓ 28	7/2/2024	✓ 19
			PAH	24	5/16/2024	6/13/2024	✓ 28	7/25/2024	✓ 42
140-36940-5	M23 - EPN 4-1/IN-701-RUN 5-COMBINED	3382	PCB	26	5/17/2024	6/13/2024	✓ 27	6/28/2024	✓ 15
			PAH	27	5/17/2024	6/13/2024	✓ 27	7/17/2024	✓ 34
140-36940-6	M23 - EPN 4-1/IN-701-RUN 6-COMBINED	3383	PCB	29	5/17/2024	6/13/2024	✓ 27	6/28/2024	✓ 15
			PAH	30	5/17/2024	6/13/2024	✓ 27	7/19/2024	✓ 36
140-36940-7	M23 - EPN 4-1/IN-701-RUN 7-COMBINED	3384	PCB	32	5/20/2024	6/13/2024	✓ 24	6/28/2024	✓ 15
			PAH	33	5/20/2024	6/13/2024	✓ 24	7/17/2024	✓ 34
140-36940-8	M23 - EPN 4-1/IN-701-FIELD BLANK-COMBINE	3385	PCB	35	5/15/2024	6/13/2024	✓ 29	6/29/2024	✓ 16
			PAH	36	5/15/2024	6/13/2024	✓ 29	7/17/2024	✓ 34
140-36940-14	A-2174,A-2175 M23 MEDIA CHECK XAD,FILTER		PCB	38	5/15/2024	6/13/2024	✓ 29	6/28/2024	✓ 15
			PAH	39	5/15/2024	6/13/2024	✓ 29	7/17/2024	✓ 34

\*\*Note: QAPP ≤30 day holding time to extraction, ≤40 day holding time from extraction to analysis objective. Holding time from extraction may be up to one year if samples are maintained below -10 C.

Were extracted samples maintained below -10 C?	Yes
--	-----

## USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36940-1

## Evaluation of Contamination Effects

Quality Control Sample	Criteria	Met? *	Page
Method blank	Per batch	Yes	48, 52
	< RL	No	48, 52
Reagent blank **	Per CPT	Yes	3372
	< RL	Archived	- - -
Field proof blank	Per CPT	Yes	35-36
	< RL	No	35-36

\* Answer as "Yes" or "No". If not met, complete table(s) below.

\*\* Typically only analyzed if field proof blank contamination is present.

## Detail on Frequency Deviations

Quality Control Sample	Analysis Frequency

## Detail on Contamination Effects

QC Sample	Analyte	Result	RL
MB Batch 88561	Phenanthrene	20.04	6.00
Field proof blank	Acenaphthene	1380	300
	Benzo[a]pyrene	70.6	30.0
	Benzo[g,h,i]perylene	1110	60.0
	Benzo[k]fluoranthene	75.7	60.0
	Chrysene	76.4	60.0
	Dibenz[a,h]anthracene	121	60.0
	Fluoranthene	320	60.0
	Fluorene	774	300
	Indeno[1,2,3-cd]pyrene	92.5	30.0
	2-Methylnaphthalene	4430	750
	Naphthalene	6750	750
	Phenanthrene	1140	60.0
	Pyrene	280	60.0

## Evaluation of Precision - LCS/LCSD (One set per batch)

Batch No.:	88561		Batch No.:	88205	
Page No.:	54		Page No.:	50-51, 3217, 3278	
Analyte	RPD	Lab RPD	Analyte	RPD	Lab RPD
Acenaphthylene	✓ 2	✓ 2	PCB-8	✓ 4	
Acenaphthene	✓ 2	✓ 2	PCB-18	✓ 9	
Anthracene	✓ 2	✓ 2	PCB-28	✓ 0	
Benzo[a]anthracene	✓ 0	✓ 0	PCB-44	✓ 4	
Benzo[b]fluoranthene	✓ 0	✓ 0	PCB-52	✓ 2	
Benzo[k]fluoranthene	✓ 1	✓ 1	PCB-66	✓ 2	
Benzo[g,h,i]perylene	✓ 1	✓ 1	PCB-77	✓ 5	✓ 5
Benzo[a]pyrene	✓ 4	✓ 4	PCB-81	✓ 7	✓ 7
Benzo[e]pyrene	✓ 4	✓ 4	PCB-101	✓ 1	
Chrysene	✓ 0	✓ 0	PCB-105	✓ 3	✓ 3
Dibenz[a,h]anthracene	✓ 1	✓ 1	PCB-114	✓ 1	✓ 1
Fluoranthene	✓ 2	✓ 2	PCB-118	✓ 5	✓ 5
Fluorene	✓ 0	✓ 0	PCB-123	✓ 2	✓ 2
Indeno[1,2,3-cd]pyrene	✓ 5	✓ 5	PCB-126	✓ 1	✓ 1
2-Methylnaphthalene	✓ 3	✓ 3	PCB-128	✓ 3	
Naphthalene	✓ 5	✓ 5	PCB-138	✓ 2	
Perylene	✓ 7	✓ 7	PCB-153	✓ 1	
Phenanthrene	✓ 1	✓ 1	PCB-156	✓ 0	✓ 0
Pyrene	✓ 1	✓ 1	PCB-157	✓ 0	✓ 0
			PCB-167	✓ 1	✓ 1
			PCB-169	✓ 2	✓ 2
			PCB-170	✓ 3	
			PCB-180	✓ 2	
			PCB-187	✓ 0	
			PCB-189	✓ 2	✓ 2
			PCB-195	✓ 2	
			PCB-206	✓ 0	✓ 0
			PCB-209	✓ 4	✓ 4

\*\*Note: QAPP ≤25% RPD objective for PAHs, ≤50% RPD objective for PCBs.

## USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36940-1

## Evaluation of Accuracy - LCS (Two per batch)

Batch No.:					88205,88561				
Page No.:					49, 50-51, 53, 54, 3217, 3278				
LCS					LCSD				
Analyte	Spiked	Measured	Recovery	Lab Recovery	Analyte	Spiked	Measured	Recovery	Lab Recovery
Acenaphthylene	150	121.1	81%	81%	Acenaphthylene	150	123.3	82%	82%
Acenaphthene	150	133.3	89%	89%	Acenaphthene	150	130.9	87%	87%
Anthracene	150	124.5	83%	83%	Anthracene	150	122.0	81%	81%
Benz[a]anthracene	150	168.2	112%	112%	Benz[a]anthracene	150	167.6	112%	112%
Benzo[b]fluoranthene	150	135.5	90%	90%	Benzo[b]fluoranthene	150	135.5	90%	90%
Benzo[k]fluoranthene	150	129.7	86%	86%	Benzo[k]fluoranthene	150	127.8	85%	85%
Benzo[g,h,i]perylene	150	136.4	91%	91%	Benzo[g,h,i]perylene	150	134.9	90%	90%
Benzo[a]pyrene	150	122.4	82%	82%	Benzo[a]pyrene	150	117.3	78%	78%
Benzo[e]pyrene	150	137.3	92%	92%	Benzo[e]pyrene	150	143.3	96%	96%
Chrysene	150	172.4	115%	115%	Chrysene	150	172.1	115%	115%
Dibenz[a,h]anthracene	150	139.8	93%	93%	Dibenz[a,h]anthracene	150	141.2	94%	94%
Fluoranthene	150	133.9	89%	89%	Fluoranthene	150	136.6	91%	91%
Fluorene	150	146.2	97%	97%	Fluorene	150	145.8	97%	97%
Indeno[1,2,3-cd]pyrene	150	144.5	96%	96%	Indeno[1,2,3-cd]pyrene	150	137.8	92%	92%
2-Methylnaphthalene	150	172.1	115%	115%	2-Methylnaphthalene	150	177.0	118%	118%
Naphthalene	150	191.6	128%	128%	Naphthalene	150	183.1	122%	122%
Perylene	150	127.2	85%	85%	Perylene	150	118.9	79%	79%
Phenanthrene	150	160.0	107%	107%	Phenanthrene	150	161.5	108%	108%
Pyrene	150	136.2	91%	91%	Pyrene	150	137.4	92%	92%
PCB-8	15	18.69	125%		PCB-8	15	17.97	120%	
PCB-18	30	43.16	144%		PCB-18	30	39.53	132%	
PCB-28	30	29.54	98%		PCB-28	30	29.59	99%	
PCB-44	45	41.17	91%		PCB-44	45	42.80	95%	
PCB-52	15	14.38	96%		PCB-52	15	14.73	98%	
PCB-66	15	15.58	104%		PCB-66	15	15.92	106%	
PCB-77	15	15.37	102%	102%	PCB-77	15	16.16	108%	108%
PCB-81	15	14.61	97%		PCB-81	15	15.65	104%	
PCB-101	45	48.67	108%		PCB-101	45	48.97	109%	
PCB-105	15	15.00	100%	100%	PCB-105	15	15.49	103%	103%
PCB-114	15	16.24	108%	108%	PCB-114	15	16.45	110%	110%
PCB-118	15	13.93	93%	93%	PCB-118	15	14.68	98%	98%
PCB-123	15	15.55	104%	104%	PCB-123	15	15.28	102%	102%
PCB-126	15	18.14	121%	121%	PCB-126	15	18.37	122%	122%
PCB-128	30	30.67	102%		PCB-128	30	31.55	105%	
PCB-138	60	59.21	99%		PCB-138	60	57.84	96%	
PCB-153	30	29.61	99%		PCB-153	30	29.43	98%	

**USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls**

LCS					LCSD				
Analyte	Spiked	Measured	Recovery	Lab Recovery	Analyte	Spiked	Measured	Recovery	Lab Recovery
PCB-156	30	30.27	101%	101%	PCB-156	30	30.41	101%	101%
PCB-157	30	30.27	101%	101%	PCB-157	30	30.41	101%	101%
PCB-167	15	15.81	105%	105%	PCB-167	15	15.67	104%	104%
PCB-169	15	16.77	112%	112%	PCB-169	15	17.08	114%	114%
PCB-170	15	14.61	97%		PCB-170	15	14.98	100%	
PCB-180	30	32.27	108%		PCB-180	30	32.81	109%	
PCB-187	15	16.40	109%		PCB-187	15	16.41	109%	
PCB-189	15	16.08	107%	107%	PCB-189	15	16.41	109%	109%
PCB-195	15	17.08	114%		PCB-195	15	16.80	112%	
PCB-206	15	15.04	100%	100%	PCB-206	15	15.08	101%	101%
PCB-209	15	13.81	92%	92%	PCB-209	15	14.31	95%	95%

\*\* Note: QAPP 60-140% recovery objective for PAHs, 60-135% recovery objective for PCBs.

## USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

<b>Laboratory:</b>	Eurofins Knoxville
<b>Report ID:</b>	140-36940-1

## Evaluation of Accuracy - Extraction Standards (Isotope Dilution)

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery											
		C6N	C62MN	C6Acy	C6Ace	C6Fle	C6Fla	C3Pyr	C6BaA	C6Chr	C6BbF	C6BkF	C4BeP
		20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-130
140-36940-1	43-47	60	65	81	83	87	89	87	73	77	74	74	67
140-36940-2	43-47	56	67	77	83	83	87	87	67	70	66	68	60
140-36940-3	43-47	60	76	99	91	53	105	107	98	92	42	43	32
140-36940-4	43-47	64	67	96	88	101	98	98	86	86	63	100	51
140-36940-5	43-47	54	70	92	97	94	94	89	110	110	25	22	26
140-36940-6	43-47	71	74	105	98	110	96	88	68	73	49	69	27
140-36940-7	43-47	77	75	84	89	89	95	82	78	76	40	40	26
140-36940-8	43-47	33	43	38	47	76	63	79	48	64	61	61	55
140-36940-14	43-47	77	72	95	83	85	84	84	84	84	93	84	87

C6N = 13C6-Naphthalene

C62MN = 13C6-2-Methylnaphthalene

C6Acy = 13C6-Acenaphthylene

C6Ace = 13C6-Acenaphthene

C6Fle = 13C6-Fluorene

C6Fla = 13C6-Fluoranthrene

C3Pyr = 13C3-Pyrene

C6BaA = 13C6-Benzo(a)anthracene

C6Chr = 13C6-Chrysene

C6BbF = 13C6-Benzo(b)fluoranthene

C6BkF = 13C6-Benzo(k)fluoranthene

C4BeP = 13C4-Benzo(e)pyrene

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery											
		C4BaP	PRY	IND	DBA	BghiP	AN	C6Ph	PCB1L	PCB3L	PCB4L	PCB15L	PCB19L
		20-130	20-130	20-130	20-130	20-130	20-130	20-130	20-145	20-145	20-145	20-145	20-145
140-36940-1	43-47	74	74	57	63	49	67	59	49	77	58	77	83
140-36940-2	43-47	65	67	41	50	38	72	56	62	87	69	74	109
140-36940-3	43-47	60	70	76	78	56	83	75	61	74	73	89	59
140-36940-4	43-47	92	97	93	109	92	104	93	105	105	98	108	95
140-36940-5	43-47	24	59	69	28	56	83	70	60	72	74	89	70
140-36940-6	43-47	67	64	51	54	42	98	82	53	62	65	79	69
140-36940-7	43-47	54	37	14	10	42	71	74	54	58	65	76	71
140-36940-8	43-47	74	62	115	74	70	48	47	53	61	62	68	63
140-36940-14	43-47	90	88	118	100	85	75	68	14	44	19	68	27

C4BaP = 13C4-Benzo(a)pyrene

PRY = Perylene-d12

IND = 13C6-Indeno(1,2,3-cd)pyrene

DBA = 13C6-Dibenz(a,h)anthracene

BghiP = 13C12-Benzo(ghi)perylene

AN = 13C6-Anthracene

C6Ph = 13C6-Phenanthrene

## USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery											
		PCB37L	PCB54L	PCB77L	PCB81L	PCB104L	PCB105L	PCB114L	PCB118L	PCB123L	PCB126L	PCB155L	PCB156L
		20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145
140-36940-1	43-47	84	121	82	85	85	86	84	86	84	87	85	88
140-36940-2	43-47	90	141	88	88	87	93	86	91	85	92	85	89
140-36940-3	43-47	89	98	88	89	87	94	90	90	93	92	87	86
140-36940-4	43-47	103	110	106	110	101	109	102	103	102	109	106	105
140-36940-5	43-47	88	90	88	87	86	89	90	86	87	92	87	91
140-36940-6	43-47	78	82	83	84	84	88	87	88	88	88	83	88
140-36940-7	43-47	80	83	82	84	86	87	85	87	86	88	84	89
140-36940-8	43-47	69	71	80	78	72	85	80	84	81	88	79	89
140-36940-14	43-47	71	49	79	78	75	87	83	84	83	85	78	87

Sample No.	Page No.	Extraction Standard (Isotope Dilution) Recovery										
		PCB157L	PCB167L	PCB169L	PCB170L	PCB188L	PCB189L	PCB202L	PCB205L	PCB206L	PCB208L	PCB209L
		20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145	20-145
140-36940-1	43-47	88	89	83	84	84	98	83	89	78	80	80
140-36940-2	43-47	89	88	86	91	86	96	86	90	83	89	84
140-36940-3	43-47	86	84	84	91	88	63	86	89	102	105	104
140-36940-4	43-47	105	101	103	101	100	119	101	102	105	106	105
140-36940-5	43-47	91	89	89	90	87	61	84	89	103	109	113
140-36940-6	43-47	88	87	88	90	86	59	86	87	102	106	109
140-36940-7	43-47	89	87	87	93	87	59	89	89	107	109	116
140-36940-8	43-47	89	86	89	91	80	88	84	93	94	97	97
140-36940-14	43-47	87	83	87	90	79	60	82	87	102	103	110

## USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

<b>Laboratory:</b>	Eurofins Knoxville
<b>Report ID:</b>	140-36940-1

### Evaluation of Accuracy - Sampling Standards (Surrogate)

[illegible]

13C6BCF = 13C6-Benzo(c)fluorene

13C12BJF = 13C12-Benzo(j)fluoranthene

ANC = Anthracene-d10



## USEPA Method 23 - Polycyclic Aromatic Hydrocarbons and Polychlorinated Biphenyls

Laboratory:	Eurofins Knoxville
Report ID:	140-36940-1

## Review of Analytical Quality Control Checks

Quality Control Sample	Criteria	Met? *	Page No.
Initial calibration	Mean RRF $\pm$ 10% RSD for unlabeled	Yes	445-447, 1745-1760
	Mean RRF $\pm$ 20% RSD for labeled	Yes	445-447, 1745-1760
Calibration verification	Every 12 hours	Yes	1072, 1075, 1078, 1081, 1084, 1087, 1090, 3341, 3344, 3347, 3351
	RF $\pm$ 25% from ICAL RRF for unlabeled	Yes	749, 782*, 815*, 848*, 881, 914, 947, 2705-2711, 2810-2816, 2915-2921, 3031-3037
	RF $\pm$ 25% from ICAL RRF for pre-sampling adsorbent standard	Yes	
	RF $\pm$ 25% from ICAL RRF for pre-extraction filter standard	Yes	
	RF $\pm$ 30% from ICAL RRF for pre-extraction standard and alternative standard	No	
Retention time window and	Beginning of each 12-hour analytical shift	Yes	1072, 1075, 1078, 1081, 1084, 1087, 1090, 3341, 3344, 3347, 3351
	Retention time $\Delta$ < 15 sec	Yes	758-760, 791-793, 824-826, 857-859, 890-892, 923-925, 956-958, 984-986, 2739-2756, 2844-2861, 2950-2967, 3066-3083
	Valley $\leq$ 50% (PAHs), 60% (benzo[b]fluoranthene and benzo[k]fluoranthene), 40% (PCBs)	Yes	816-821, 849-854, 882-887, 915-920, 948-953, 2612, 2613, 2615, 2616, 261

\* Answer as "Yes" or "No". If not met, complete table(s) below.

## Deviations on Initial Calibrations

Sample ID	Calibration standard	RSD	Criteria

## Deviations on Calibration Verifications

Sample ID	Calibration standard	RPD	Criteria
CCV 140-88812/1	13C6-Indeno(1,2,3-cd)pyrene	35.7%	30.0%
CCV 140-88831/1	13C6-Indeno(1,2,3-cd)pyrene	34.8%	30.0%
	13C6-Dibenz(a,h)anthracene	35.5%	30.0%
CCV 140-88872/1	13C6-Indeno(1,2,3-cd)pyrene	48.7%	30.0%
	13C6-Dibenz(a,h)anthracene	40.0%	30.0%

## USEPA Method 25A - Hydrocarbons

Test Firm:	Alliance Technical Group, LLC
Report ID:	AST-2024-2250

## Calibration Error Test

Date	05/15/2024				05/16/2024				05/17/2024				05/20/2024			
Runs	1-2				3-4				5-6				7			
Span (ppmv)	25				25				25				25			
Gas Range	Zero	Low	Mid	High	Zero	Low	Mid	High	Zero	Low	Mid	High	Zero	Low	Mid	High
Actual calibration value (ppmv)	0.00	9.00	15.00	25.50	0.00	9.00	15.00	25.50	0.00	9.00	15.00	25.50	0.00	9.00	15.00	25.50
Analyzer calibration response (ppmv)	0.00	8.98	15.19	25.39	0.11	9.06	15.08	25.38	0.00	8.98	15.04	25.49	0.00	9.06	15.01	25.23
Difference (ppmv)	0.00	-0.02	0.19	-0.11	0.11	0.06	0.08	-0.12	0.00	-0.02	0.04	-0.01	0.00	0.06	0.01	-0.27
Calibration error	---	✓0.21%	✓1.70%	---	---	✓0.35%	✓0.70%	---	---	✓-0.18%	✓0.31%	---	---	✓1.73%	✓1.13%	---
Tester reported calibration error	---	✓0.21%	✓1.70%	---	---	✓0.35%	✓0.70%	---	---	✓-0.18%	✓0.31%	---	---	✓1.73%	✓1.13%	---

## USEPA Method 25A - Hydrocarbons

Test Firm:	Alliance Technical Group, LLC
Report ID:	AST-2024-2250

## Drift Test

Run No:	1							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	15.24	15.29	✓ 0.20%	---	0.00	0.00	✓ 0.00%	---
Hour 2	15.29	15.30	✓ 0.04%	---	0.00	0.01	✓ 0.04%	---
Hour 3	15.30	15.26	✓ -0.16%	---	0.01	0.00	✓ -0.04%	---
Hour 4	15.26	15.12	✓ -0.56%	---	0.00	0.00	✓ 0.00%	---
Total Run	15.24	15.12	✓ -0.48%		0.00	0.00	✓ 0.00%	
Run No:	2							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	15.12	14.89	✓ -0.92%	---	0.00	0.00	✓ 0.00%	---
Hour 2	14.89	15.33	✓ 1.76%	---	0.00	0.00	✓ 0.00%	---
Hour 3	15.33	15.21	✓ -0.48%	---	0.00	0.00	✓ 0.00%	---
Hour 4	15.21	15.35	✓ 0.56%	---	0.00	0.00	✓ 0.00%	---
Total Run	15.12	15.35	✓ 0.92%		0.00	0.00	✓ 0.00%	
Run No:	3							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	15.03	15.27	✓ 0.96%	---	0.00	0.02	✓ 0.08%	---
Hour 2	15.27	15.40	✓ 0.52%	---	0.02	0.01	✓ -0.04%	---
Hour 3	15.40	15.42	✓ 0.08%	---	0.01	0.00	✓ -0.04%	---
Hour 4	15.42	15.31	✓ -0.44%	---	0.00	0.01	✓ 0.04%	---
Total Run	15.03	15.31	✓ 1.12%		0.00	0.01	✓ 0.04%	
Run No:	4							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	15.31	15.12	✓ -0.76%	---	0.01	0.00	✓ -0.04%	---
Hour 2	15.12	15.23	✓ 0.44%	---	0.00	0.00	✓ 0.00%	---
Hour 3	15.23	15.54	✓ 1.24%	---	0.00	0.00	✓ 0.00%	---
Hour 4	15.54	15.24	✓ -1.20%	---	0.00	0.00	✓ 0.00%	---
Total Run	15.31	15.24	✓ -0.28%		0.01	0.00	✓ -0.04%	

## USEPA Method 25A - Hydrocarbons

Run No:	5							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	14.99	15.37	✓ 1.52%	---	0.00	0.00	✓ 0.00%	---
Hour 2	15.37	15.03	✓ -1.36%	---	0.00	0.00	✓ 0.00%	---
Hour 3	15.03	14.78	✓ -1.00%	---	0.00	0.00	✓ 0.00%	---
Hour 4	14.78	15.11	✓ 1.32%	---	0.00	0.00	✓ 0.00%	---
Total Run	14.99	15.11	✓ 0.48%		0.00	0.00	✓ 0.00%	
Run No:	6							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	15.11	15.02	✓ -0.36%	---	0.00	0.00	✓ 0.00%	---
Hour 2	15.02	14.84	✓ -0.72%	---	0.00	0.00	✓ 0.00%	---
Hour 3	14.84	15.47	✓ 2.52%	---	0.00	0.00	✓ 0.00%	---
Hour 4	15.47	14.96	✓ -2.04%	---	0.00	0.00	✓ 0.00%	---
Total Run	15.11	14.96	✓ -0.60%		0.00	0.00	✓ 0.00%	
Run No:	7							
	Mid-level Calibration Gas				Zero Calibration Gas			
	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift	Initial Response (ppmv)	Final Response (ppmv)	Drift	Reported Drift
Hour 1	14.98	14.88	✓ -0.40%	---	0.00	0.00	✓ 0.00%	---
Hour 2	14.88	15.07	✓ 0.76%	---	0.00	0.00	✓ 0.00%	---
Hour 3	15.07	15.00	✓ -0.28%	---	0.00	0.00	✓ 0.00%	---
Hour 4	15.00	14.99	✓ -0.04%	---	0.00	0.00	✓ 0.00%	---
Total Run	14.98	14.99	✓ 0.04%		0.00	0.00	✓ 0.00%	

\*\* Note: Allowable calibration drift is 3 percent of calibration span.